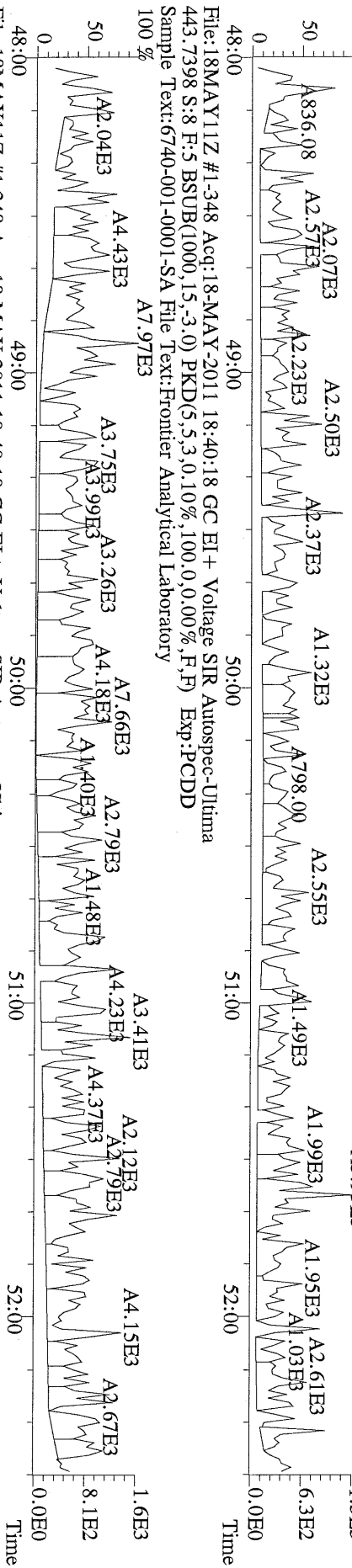
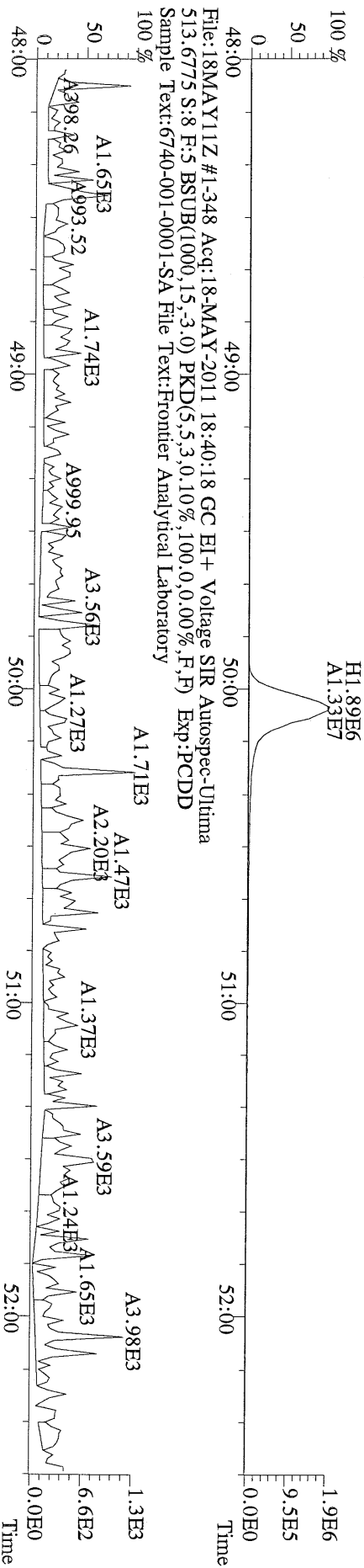


File:18MAY11Z #1-348 Acq:18-MAY-2011 18:40:18 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:8 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



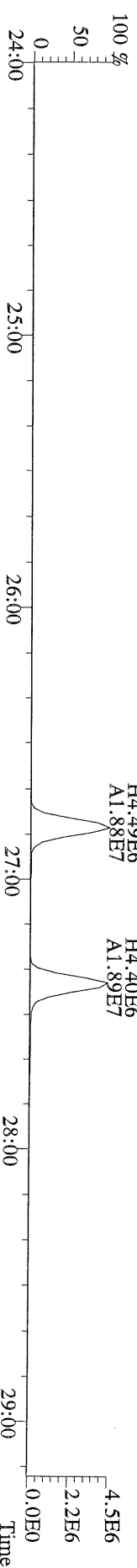
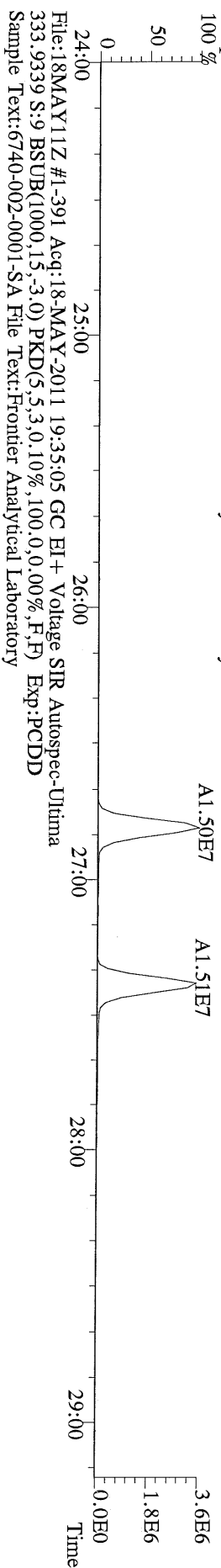
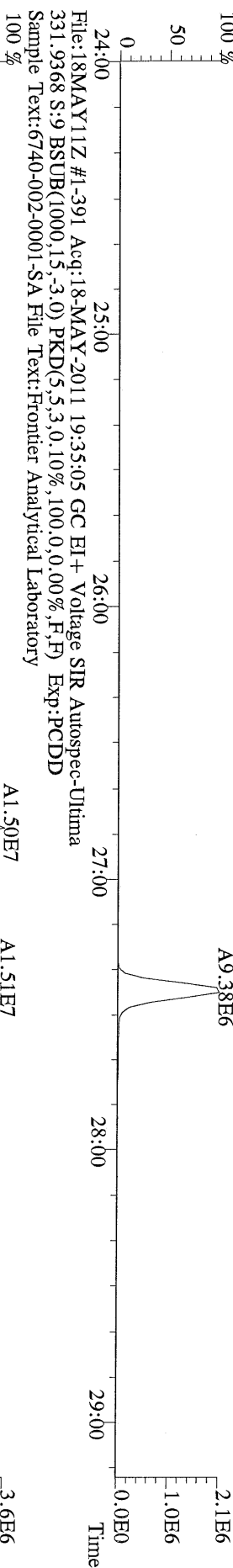
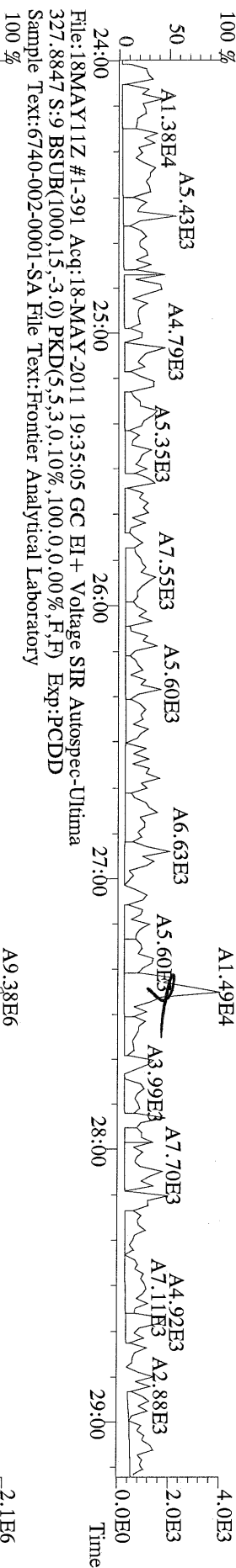
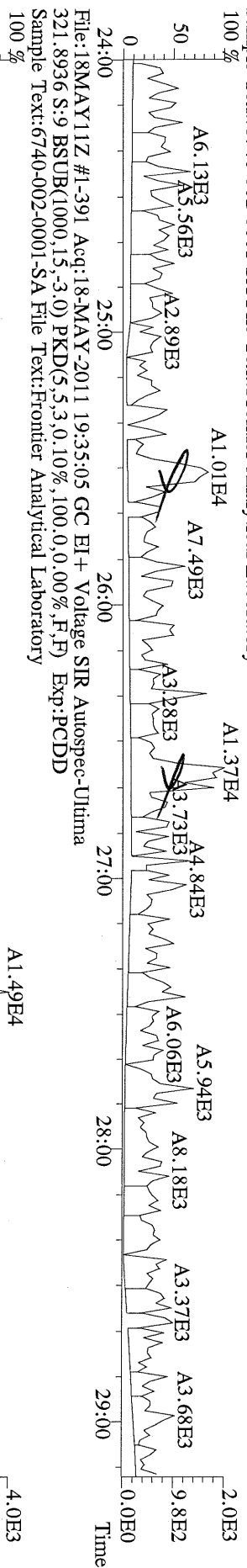
File:18MAY11Z #1-348 Acq:18-MAY-2011 18:40:18 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:8 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



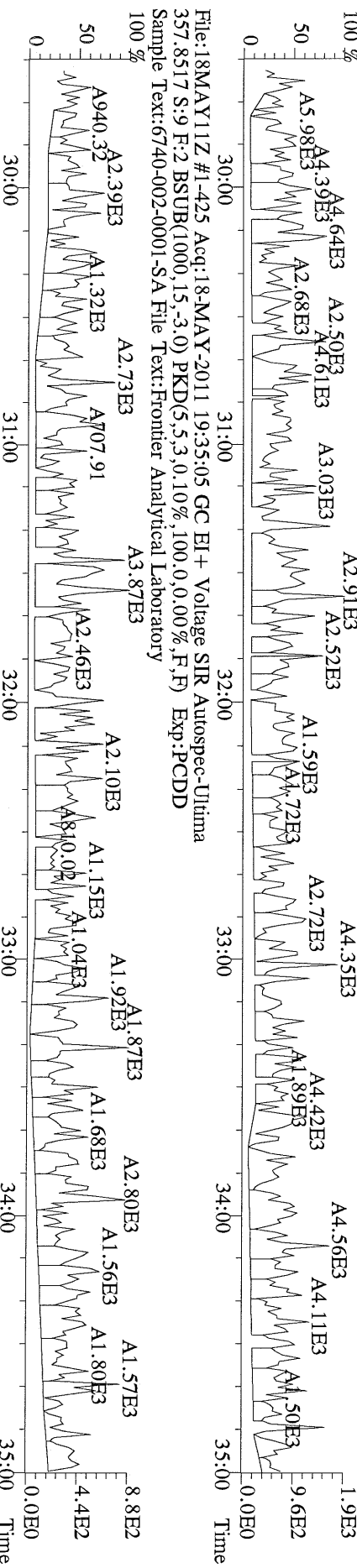
Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom	
2,3,7,8-TCDD	*	* n	NotFnd	1.15	*		2.50	736	809	0.832	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	852	404	1.14	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.09	*		2.50	644	776	1.40	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.08	*		2.50	644	776	1.83	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.12	*		2.50	644	776	1.55	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.03	*		2.50	552	474	1.71	
OCDD	*	* n	NotFnd	1.21	*		2.50	462	554	2.42	
2,3,7,8-TCDF	*	* n	NotFnd	1.09	*		2.50	500	1120	0.679	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	620	862	1.02	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	620	862	1.03	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.18	*		2.50	604	460	0.950	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.03	*		2.50	604	460	0.933	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.17	*		2.50	604	460	0.911	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.27	*		2.50	604	460	0.801	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.36	*		2.50	416	452	0.979	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.35	*		2.50	416	452	1.19	
OCDF	*	* n	NotFnd	0.97	*		2.50	528	483	2.24	
										Rec	
13C-2,3,7,8-TCDD	3.40e+07	0.80 y	27:23	0.99	1980					102	
13C-1,2,3,7,8-PeCDD	2.46e+07	1.59 y	33:15	0.79	1790					92.0	
13C-1,2,3,4,7,8-HxCDD	2.17e+07	1.28 y	38:35	1.03	1890					97.3	
13C-1,2,3,6,7,8-HxCDD	1.88e+07	1.27 y	38:46	0.96	1770					91.1	
13C-1,2,3,4,6,7,8-HpCDD	1.60e+07	1.05 y	44:10	0.75	1920					98.8	
13C-OCDD	2.37e+07	0.90 y	49:41	0.50	4240					109	
13C-2,3,7,8-TCDF	4.58e+07	0.80 y	26:37	0.98	1990					102	
13C-1,2,3,7,8-PeCDF	3.37e+07	1.58 y	31:31	0.78	1840					95.0	
13C-2,3,4,7,8-PeCDF	3.31e+07	1.58 y	32:49	0.75	1870					96.2	
13C-1,2,3,4,7,8-HxCDF	2.25e+07	0.52 y	37:13	1.05	1920					98.8	
13C-1,2,3,6,7,8-HxCDF	2.79e+07	0.52 y	37:24	1.40	1790					92.1	
13C-2,3,4,6,7,8-HxCDF	2.44e+07	0.52 y	38:20	1.16	1890					97.5	
13C-1,2,3,7,8,9-HxCDF	2.69e+07	0.52 y	39:46	1.30	1870					96.1	
13C-1,2,3,4,6,7,8-HpCDF	1.73e+07	0.45 y	42:16	0.83	1880					96.8	
13C-1,2,3,4,7,8,9-HpCDF	1.51e+07	0.45 y	45:05	0.69	1960					101	
13C-OCDF	3.20e+07	0.90 y	50:03	0.77	3740					96.3	
37Cl-2,3,7,8-TCDD	9.38e+06		27:25	0.71	759					97.8	
13C-1,2,3,4-TCDD	3.38e+07	0.80 y	26:49	-	61.5						
13C-1,2,3,4-TCDF	4.57e+07	0.79 y	25:31	-	59.2						
13C-1,2,3,7,8,9-HxCDD	2.16e+07	1.30 y	39:12	-	54.3						
Total Tetra-Dioxins	*		NotFnd	1.15	*		2.50	736	809	0.832	0
Total Penta-Dioxins	*		NotFnd	1.02	*		2.50	852	404	1.14	0
Total Hexa-Dioxins	*		NotFnd	1.10	*		2.50	644	776	1.83	0
Total Hepta-Dioxins	*		NotFnd	1.03	*		2.50	552	474	1.71	0
Total Tetra-Furans	*		NotFnd	1.09	*		2.50	500	1120	0.679	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.96	*		2.50	620	862	1.03 PeCDF	0
Total Penta-Furans	*		NotFnd	0.96	*		2.50	620	862	1.03 0.00	0
Total Hexa-Furans	*		NotFnd	1.16	*		2.50	604	460	0.950	0
Total Hepta-Furans	*		NotFnd	1.36	*		2.50	416	452	1.19	0

Analyst: J Date: 5/19/11

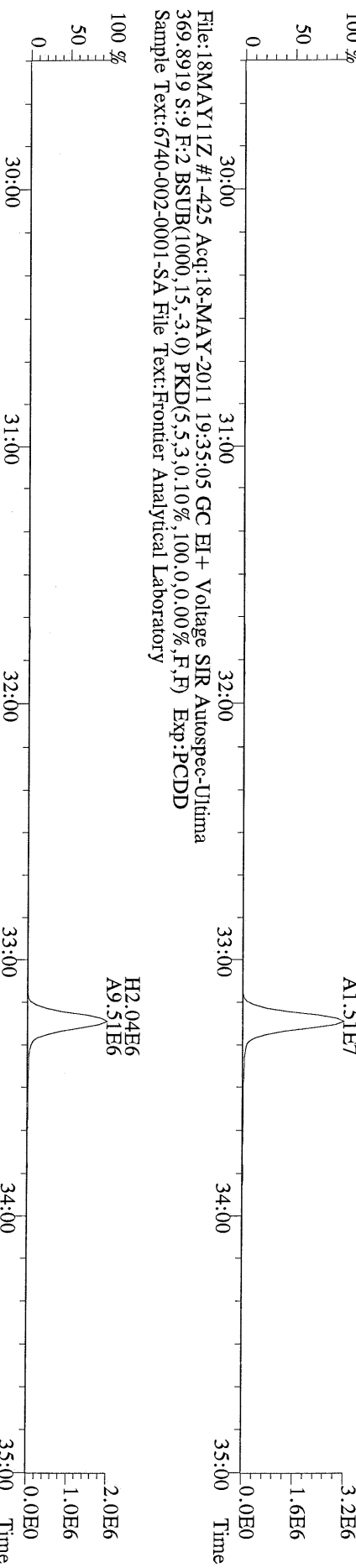
File:18MAY11Z #1-391 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:9 BSUB(1000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



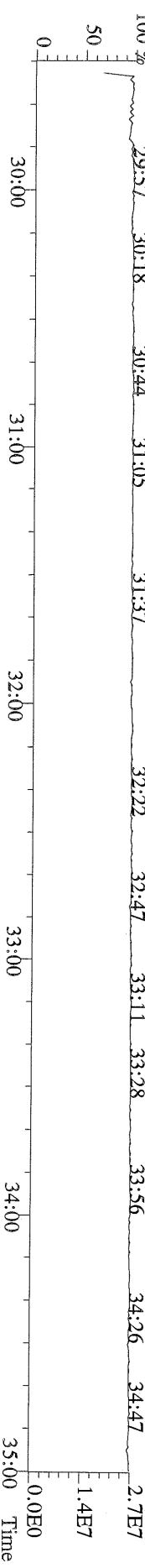
File:18MAY11Z #1-425 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:9 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



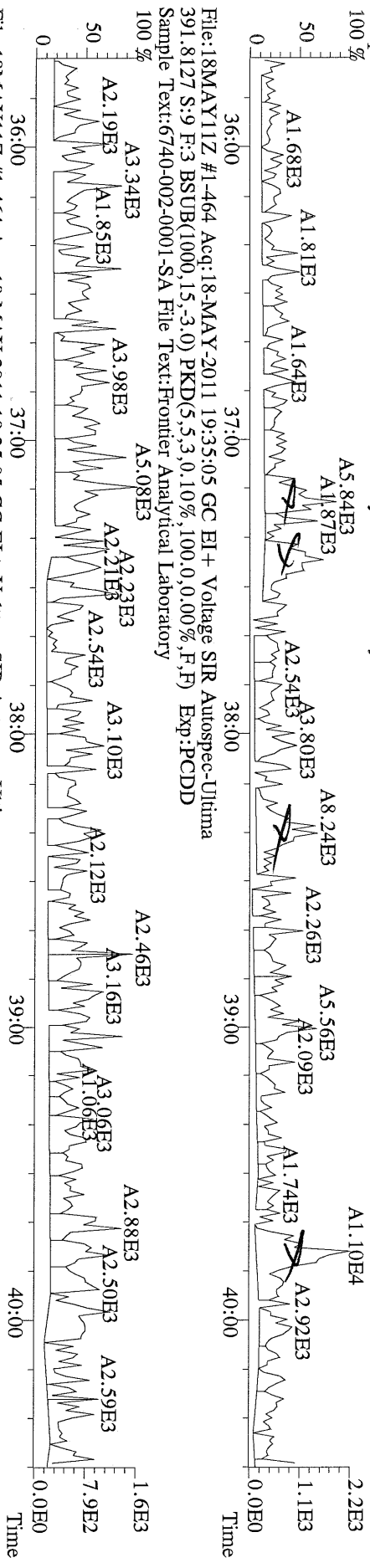
File:18MAY11Z #1-425 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:9 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



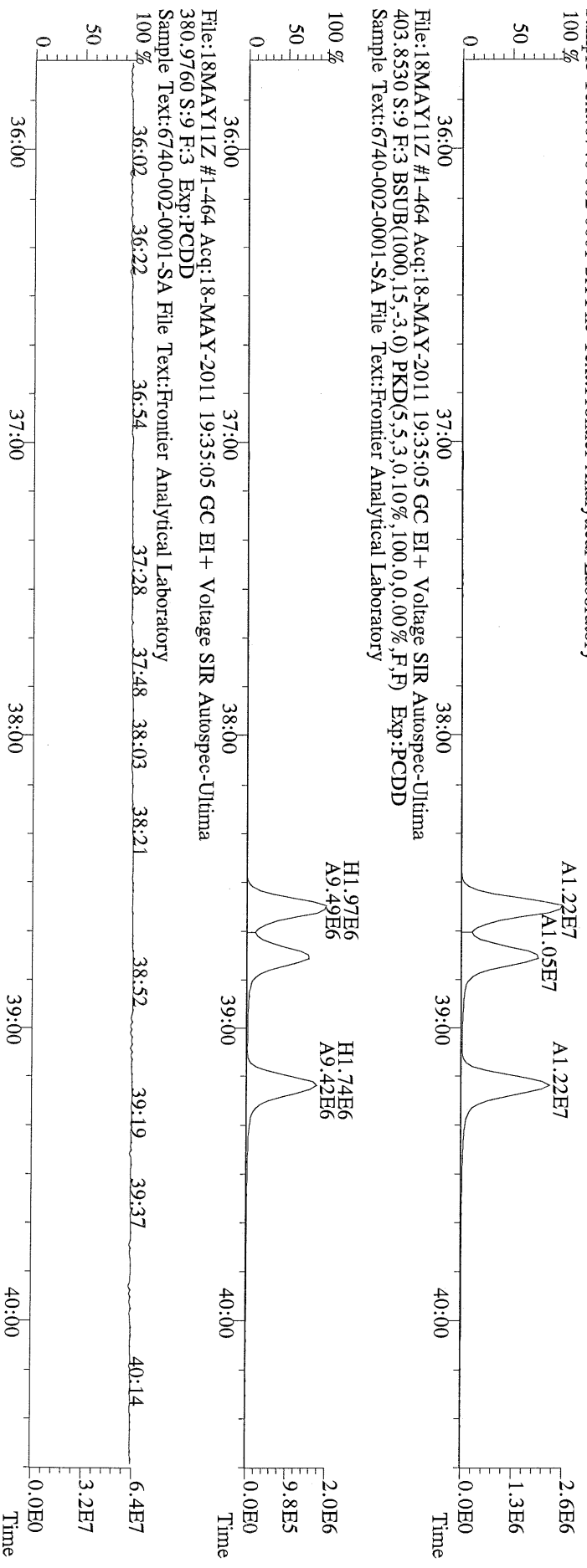
File:18MAY11Z #1-425 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:9 F:2 Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



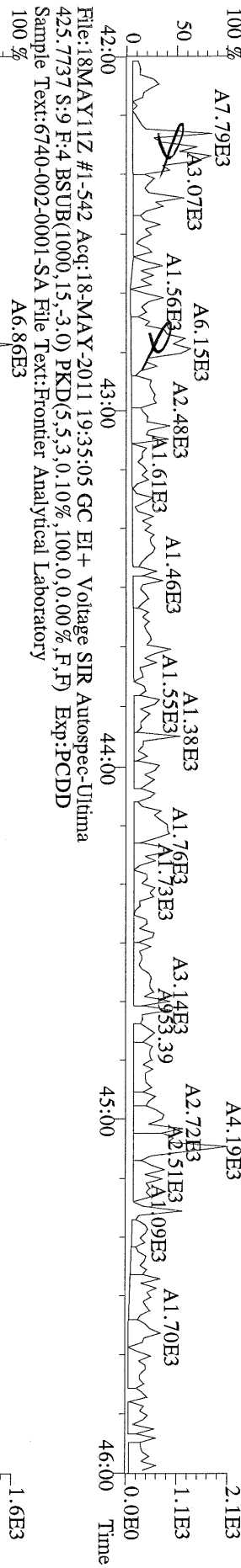
File:18MAY11Z #1-464 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:9 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



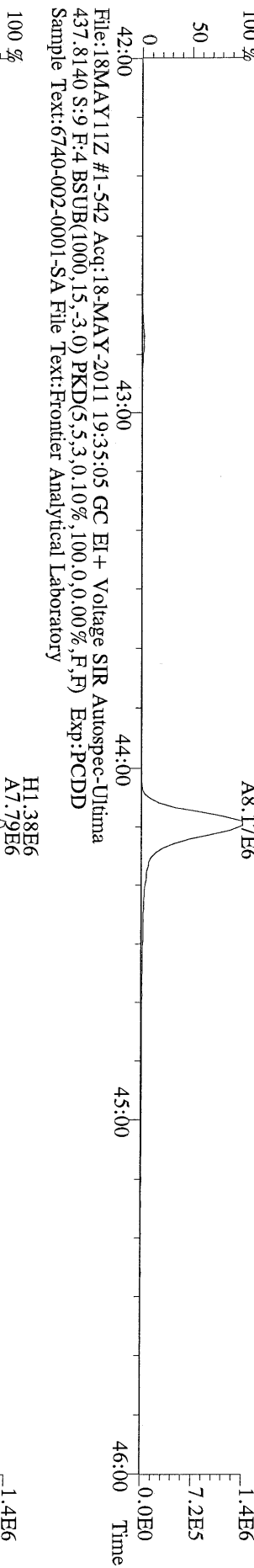
File:18MAY11Z #1-464 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:9 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



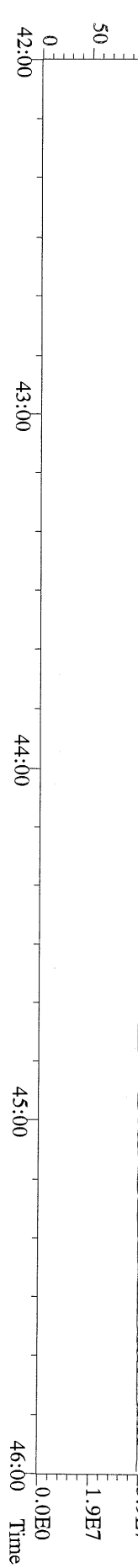
File:18MAY11Z #1-542 Acq:18-MAY-2011 19:35:05 GC EI + Voltage SIR Autospec-Ultima
423.7767 S:9 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



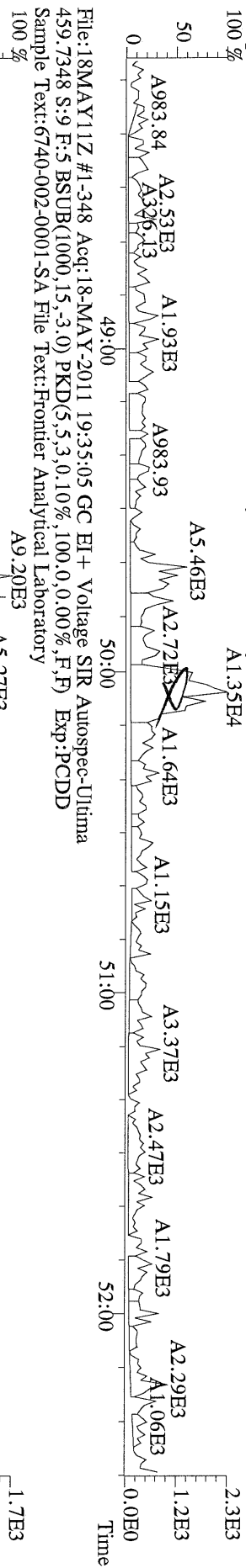
File:18MAY11Z #1-542 Acq:18-MAY-2011 19:35:05 GC EI + Voltage SIR Autospec-Ultima
435.8169 S:9 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



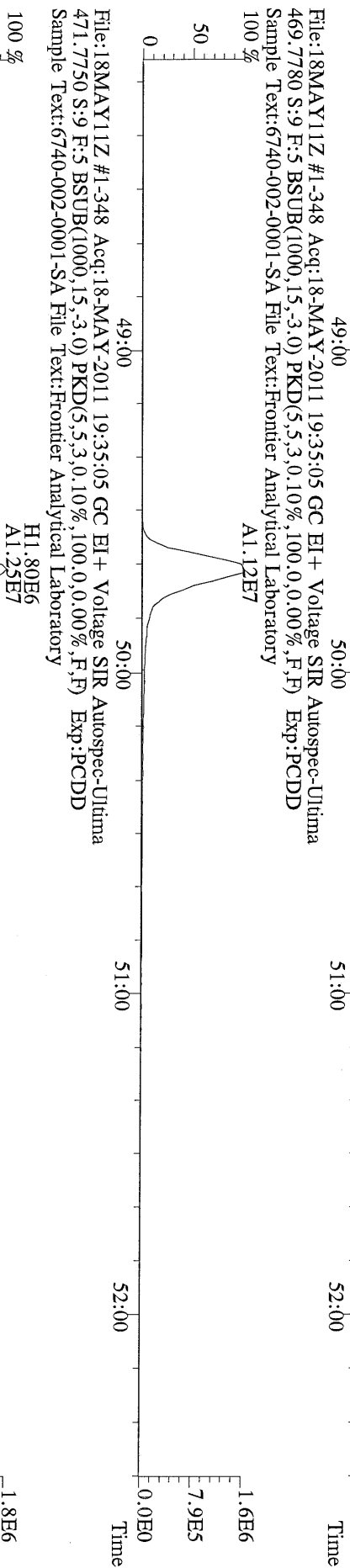
File:18MAY11Z #1-542 Acq:18-MAY-2011 19:35:05 GC EI + Voltage SIR Autospec-Ultima
437.8140 S:9 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



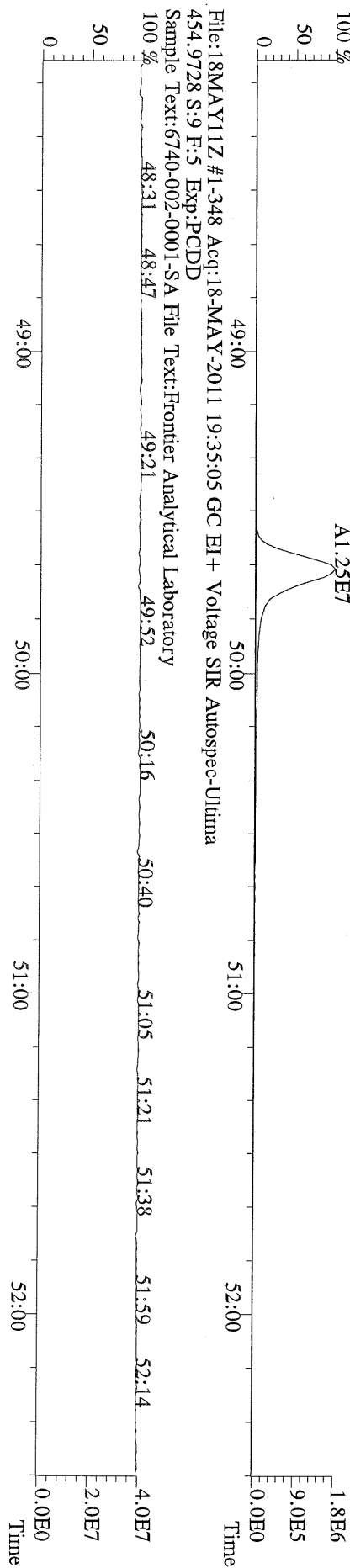
File:18MAY11Z #1-348 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:9 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:9 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory

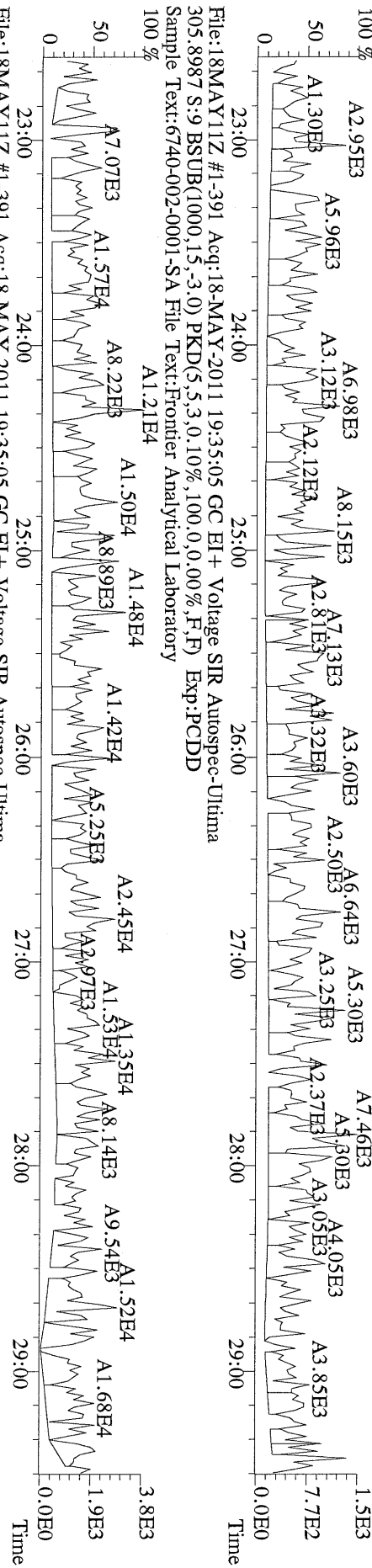


File:18MAY11Z #1-348 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:9 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory

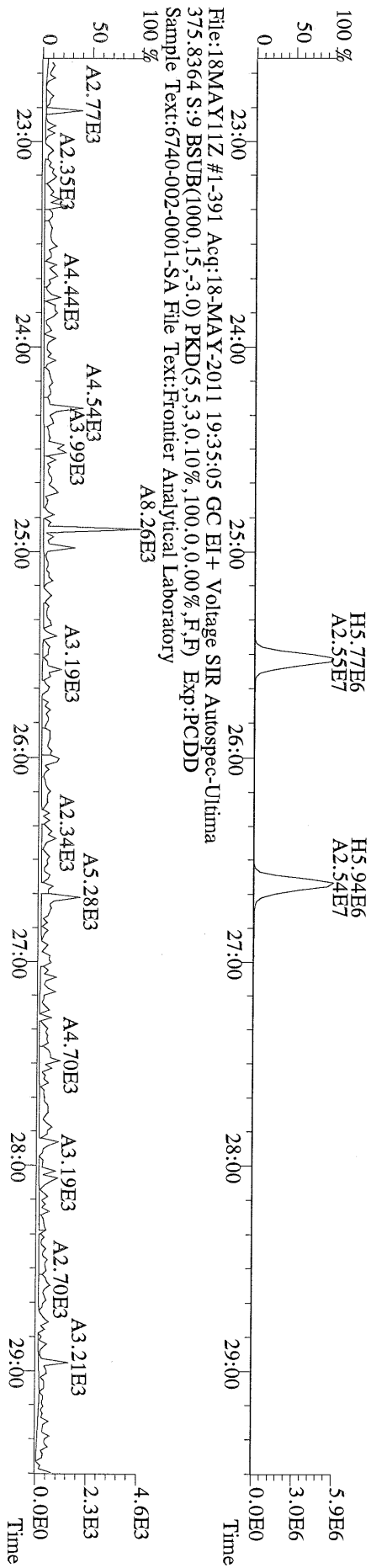


File:18MAY11Z #1-348 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:9 F:5 Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory

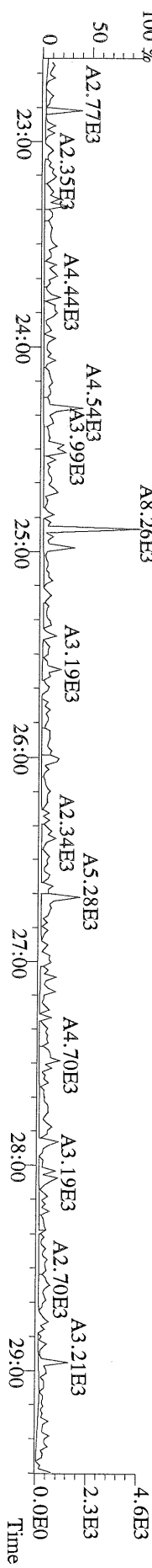
File:18MAY11Z #1-391 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:9 BSUB(1000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



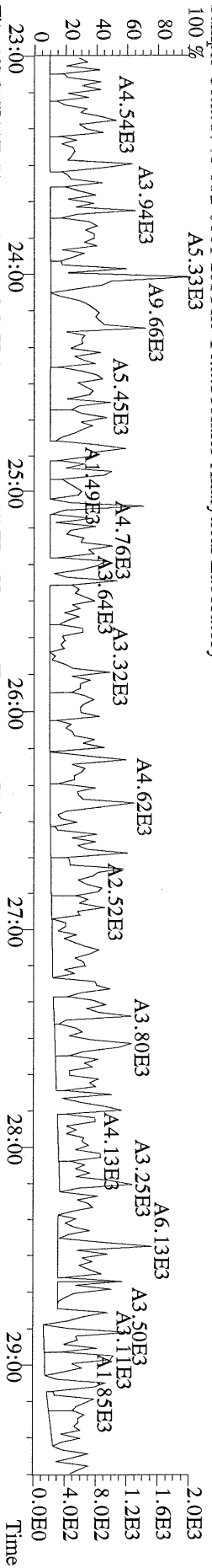
File:18MAY11Z #1-391 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:9 BSUB(1000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



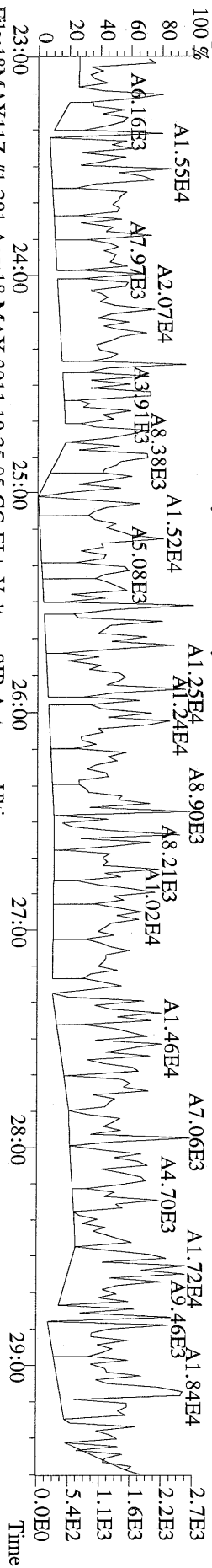
File:18MAY11Z #1-391 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:9 BSUB(1000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



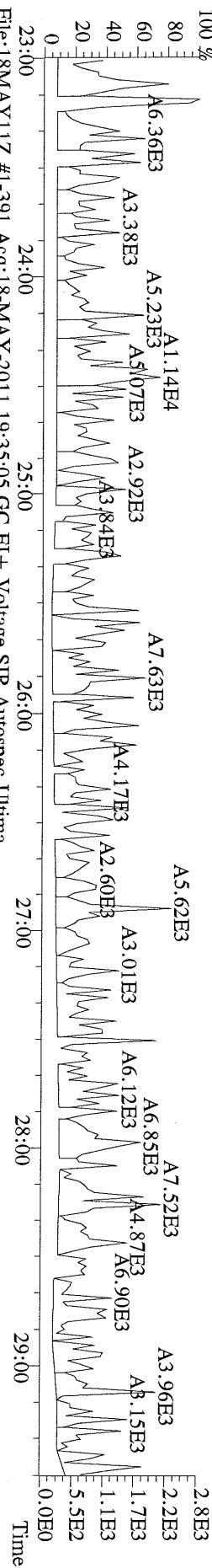
File:18MAY11Z #1-391 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:9 BSUB(1000,15,3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



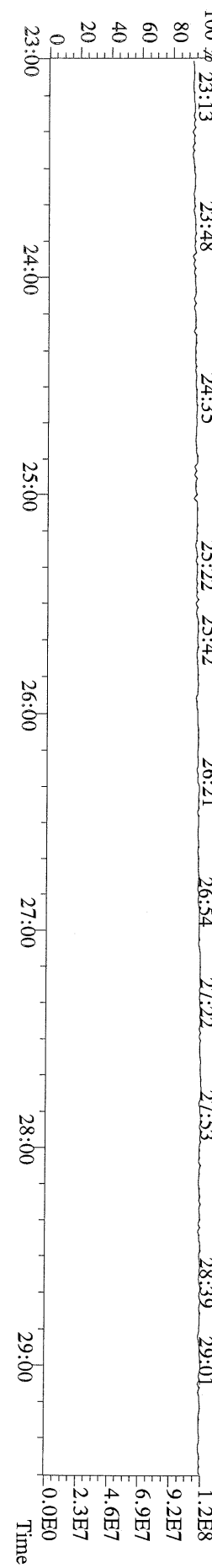
File:18MAY11Z #1-391 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:9 BSUB(1000,15,3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



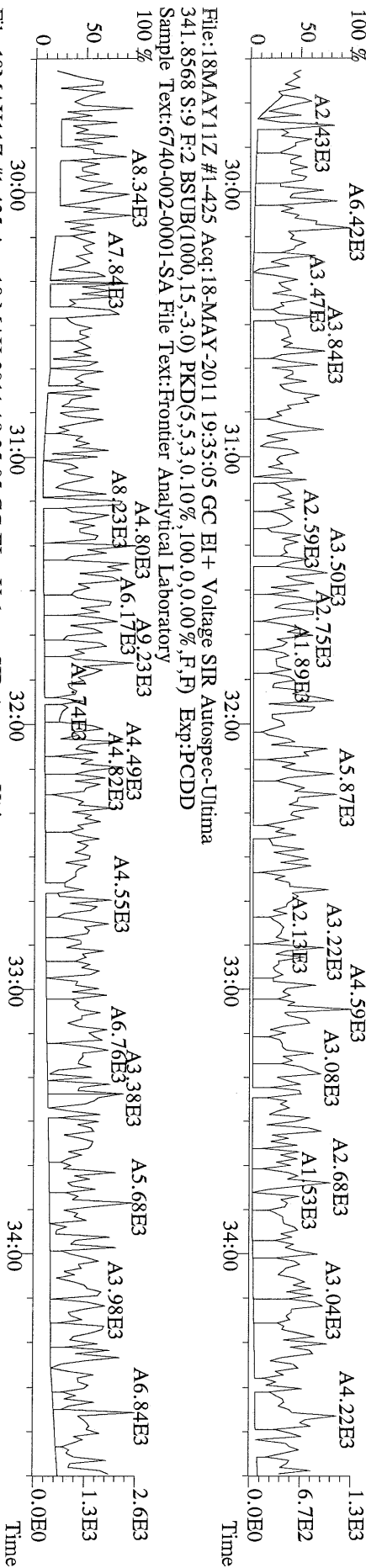
File:18MAY11Z #1-391 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:9 BSUB(1000,15,3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



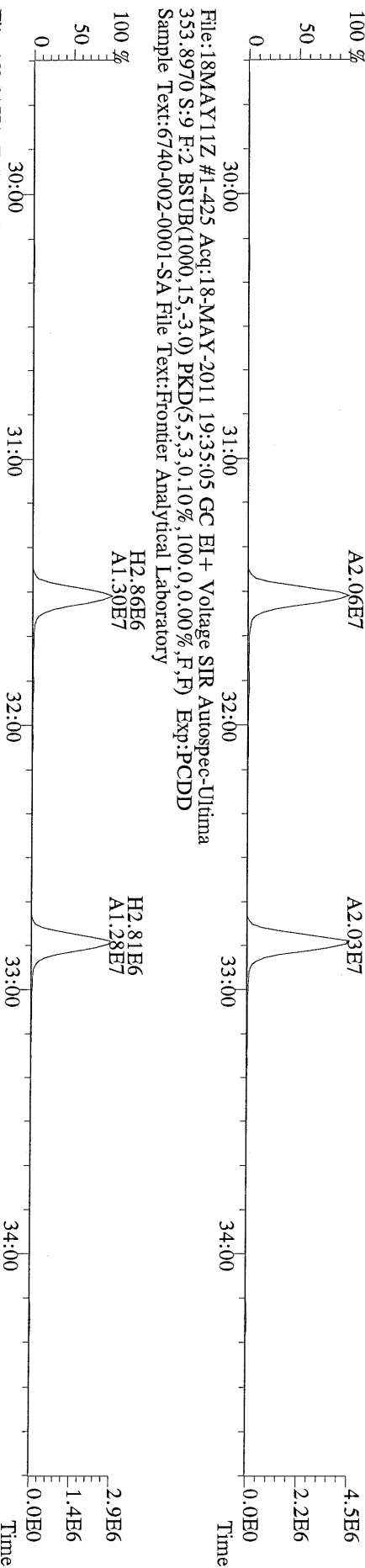
File:18MAY11Z #1-391 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:9 Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



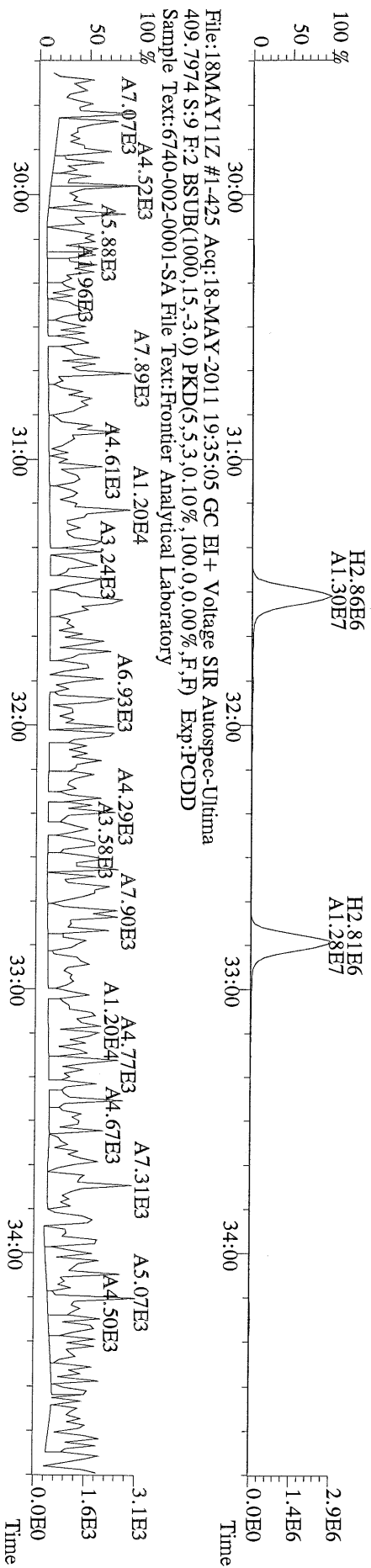
File:18MAY11Z #1-425 Acq:18-MAY-2011 19:35:05 GC EI + Voltage SIR Autospec-Ultima
339.8597 S:9 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



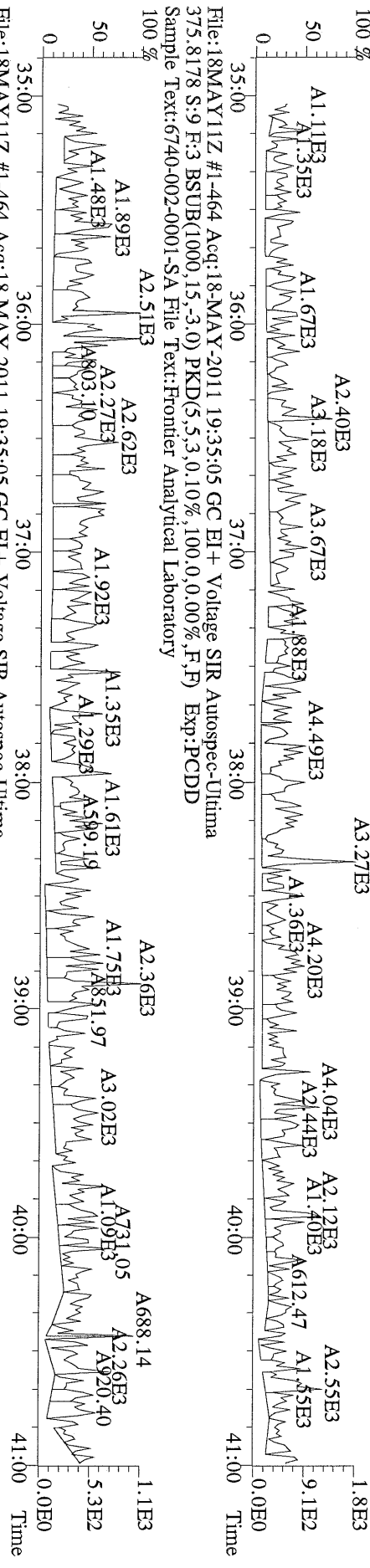
File:18MAY11Z #1-425 Acq:18-MAY-2011 19:35:05 GC EI + Voltage SIR Autospec-Ultima
351.9000 S:9 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



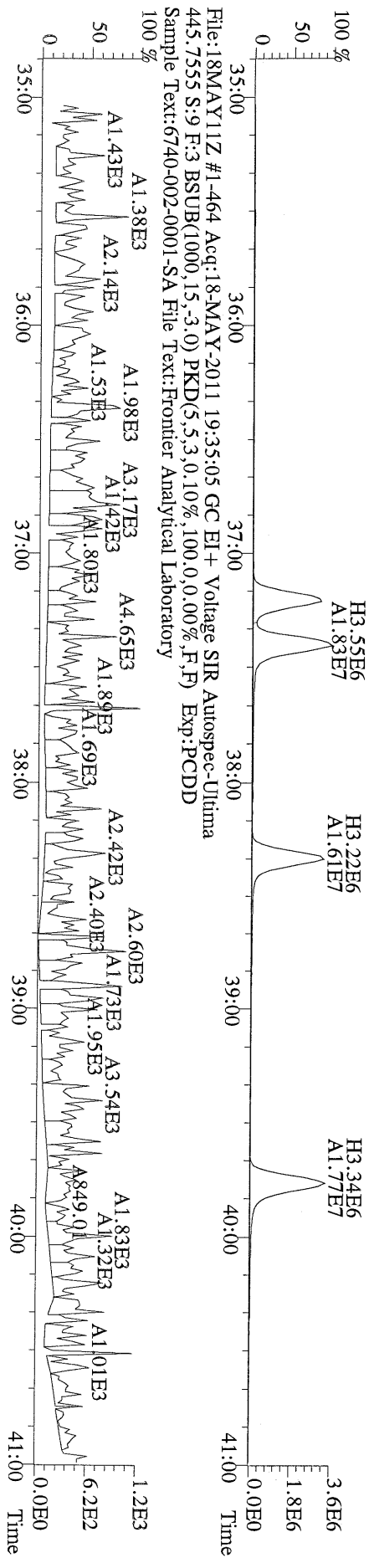
File:18MAY11Z #1-425 Acq:18-MAY-2011 19:35:05 GC EI + Voltage SIR Autospec-Ultima
353.8970 S:9 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



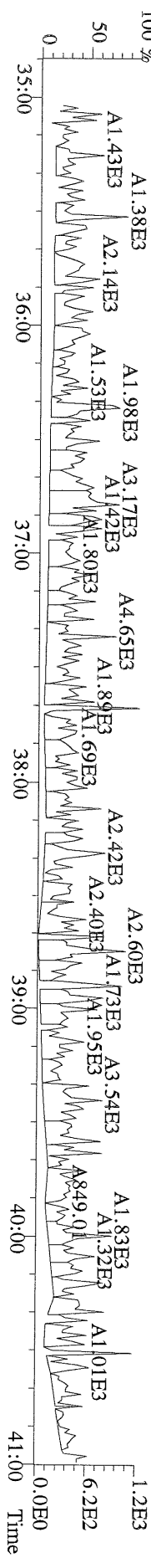
File:18MAY11Z #1-464 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:9 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



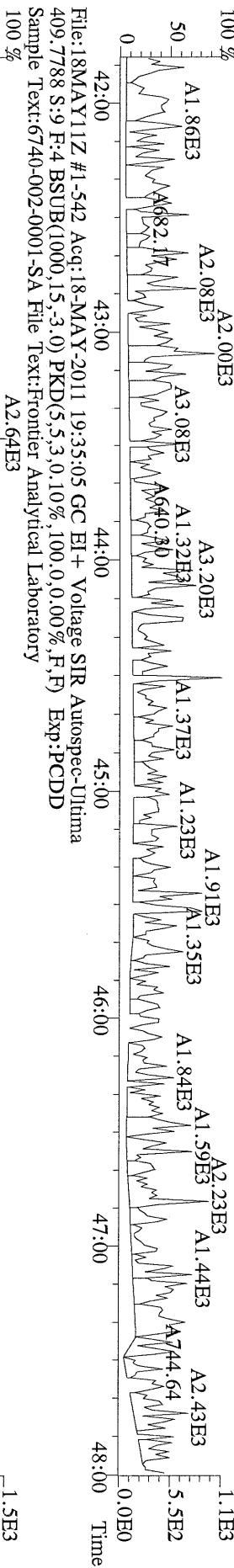
File:18MAY11Z #1-464 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:9 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



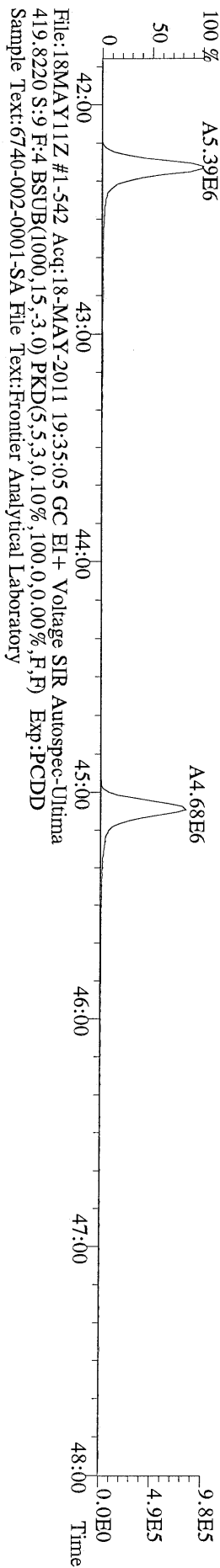
File:18MAY11Z #1-464 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:9 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



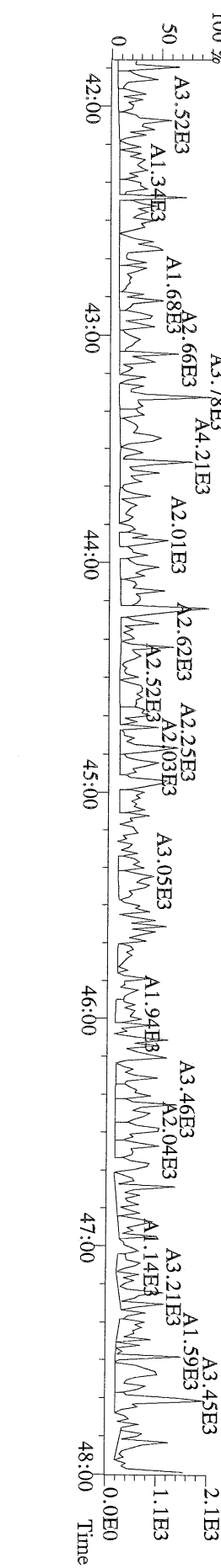
File:18MAY11Z #1-542 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:9 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-542 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:9 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



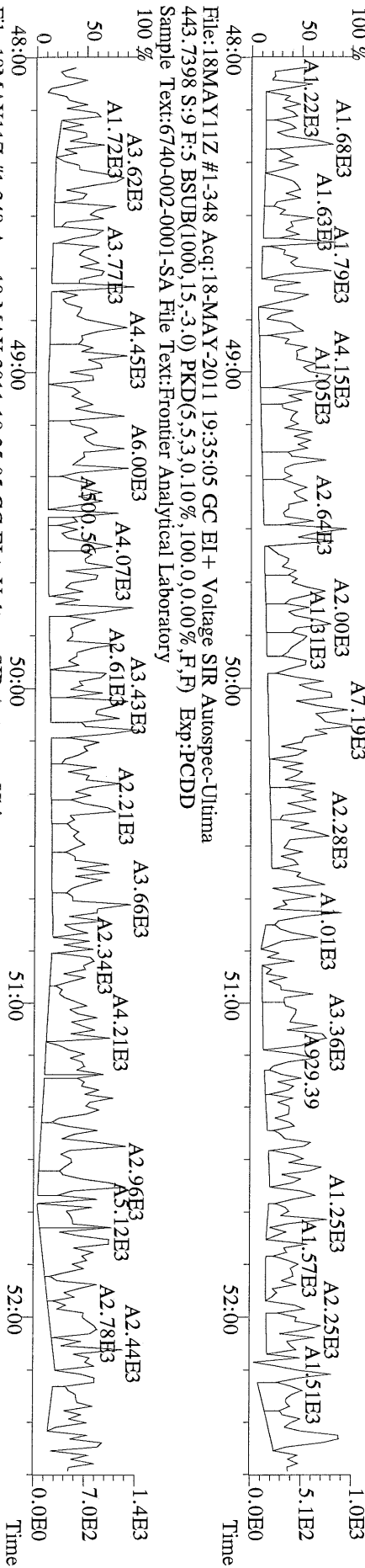
File:18MAY11Z #1-542 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:9 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



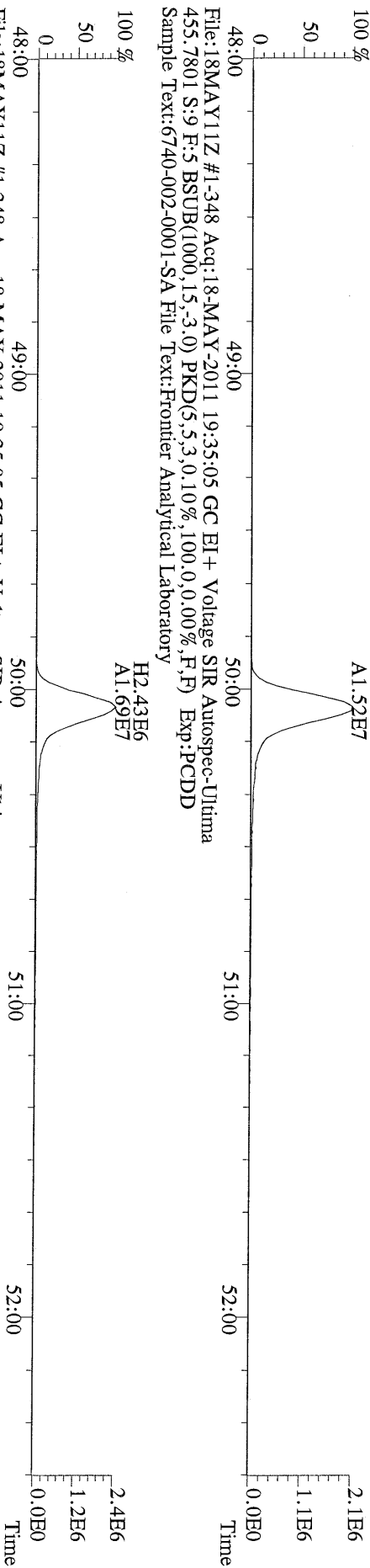
File:18MAY11Z #1-542 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:9 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



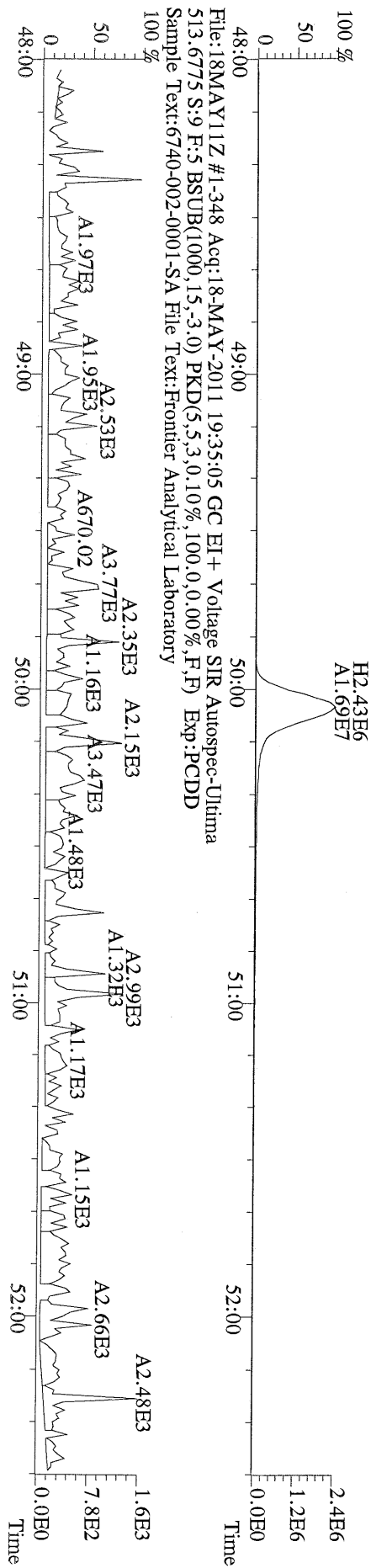
File:18MAY11Z #1-348 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:9 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:9 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory

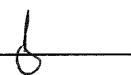


File:18MAY11Z #1-348 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:9 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



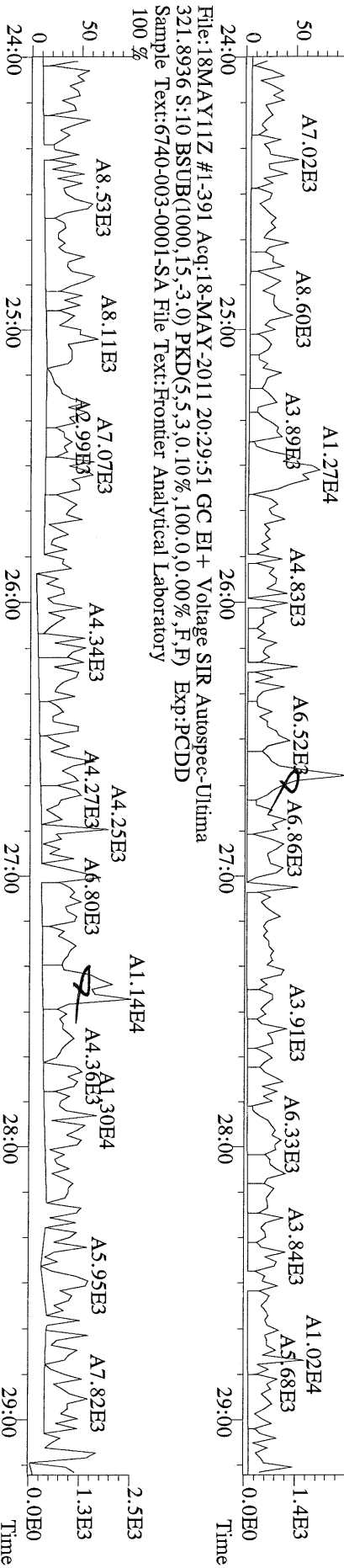
File:18MAY11Z #1-348 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:9 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL		
2,3,7,8-TCDD	*	* n	NotFnd	1.15	*		2.50	784	1160	1.19	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	852	404	1.34	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.09	*		2.50	652	668	1.52	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.08	*		2.50	652	668	1.97	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.12	*		2.50	652	668	1.68	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.03	*		2.50	616	428	2.06	
OCDD	*	* n	NotFnd	1.21	*		2.50	467	632	3.13	
2,3,7,8-TCDF	*	* n	NotFnd	1.09	*		2.50	664	1060	0.816	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	388	1110	1.19	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	388	1110	1.23	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.18	*		2.50	592	452	1.08	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.03	*		2.50	592	452	0.995	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.17	*		2.50	592	452	1.07	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.27	*		2.50	592	452	0.973	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.36	*		2.50	452	528	1.25	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.35	*		2.50	452	528	1.60	
OCDF	*	* n	NotFnd	0.97	*		2.50	360	488	2.32	
										Rec	
13C-2,3,7,8-TCDD	2.98e+07	0.80	y 27:23	0.99	1780					92.4	
13C-1,2,3,7,8-PeCDD	2.14e+07	1.59	y 33:15	0.79	1600					82.6	
13C-1,2,3,4,7,8-HxCDD	1.85e+07	1.29	y 38:36	1.03	1730					89.4	
13C-1,2,3,6,7,8-HxCDD	1.59e+07	1.26	y 38:45	0.96	1600					83.1	
13C-1,2,3,4,6,7,8-HpCDD	1.35e+07	1.06	y 44:09	0.75	1730					89.8	
13C-OCDD	2.01e+07	0.91	y 49:41	0.50	3840					99.5	
13C-2,3,7,8-TCDF	4.10e+07	0.80	y 26:37	0.98	1870					96.7	
13C-1,2,3,7,8-PeCDF	2.93e+07	1.57	y 31:31	0.78	1690					87.3	
13C-2,3,4,7,8-PeCDF	2.90e+07	1.58	y 32:49	0.75	1720					88.9	
13C-1,2,3,4,7,8-HxCDF	1.95e+07	0.52	y 37:12	1.05	1790					92.5	
13C-1,2,3,6,7,8-HxCDF	2.43e+07	0.52	y 37:24	1.40	1670					86.5	
13C-2,3,4,6,7,8-HxCDF	2.08e+07	0.53	y 38:20	1.16	1730					89.6	
13C-1,2,3,7,8,9-HxCDF	2.33e+07	0.52	y 39:46	1.30	1720					89.3	
13C-1,2,3,4,6,7,8-HpCDF	1.48e+07	0.44	y 42:17	0.83	1730					89.5	
13C-1,2,3,4,7,8,9-HpCDF	1.27e+07	0.45	y 45:04	0.69	1760					91.1	
13C-OCDF	2.67e+07	0.90	y 50:03	0.77	3340					86.4	
37Cl-2,3,7,8-TCDD	7.71e+06		27:25	0.71	642					83.1	
13C-1,2,3,4-TCDD	3.26e+07	0.79	y 26:49	-	59.1						
13C-1,2,3,4-TCDF	4.32e+07	0.80	y 25:31	-	55.7						
13C-1,2,3,7,8,9-HxCDD	2.01e+07	1.29	y 39:12	-	50.1						
Total Tetra-Dioxins	*		NotFnd	1.15	*		2.50	784	1160	1.19	0
Total Penta-Dioxins	*		NotFnd	1.02	*		2.50	852	404	1.34	0
Total Hexa-Dioxins	*		NotFnd	1.10	*		2.50	652	668	1.97	0
Total Hepta-Dioxins	*		NotFnd	1.03	*		2.50	616	428	2.06	0
Total Tetra-Furans	*		NotFnd	1.09	*		2.50	664	1060	0.816	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.96	*		2.50	388	1110	1.23	PeCDF 0
Total Penta-Furans	*		NotFnd	0.96	*		2.50	388	1110	1.23	0.00 0
Total Hexa-Furans	*		NotFnd	1.16	*		2.50	592	452	1.08	0
Total Hepta-Furans	*		NotFnd	1.36	*		2.50	452	528	1.60	0

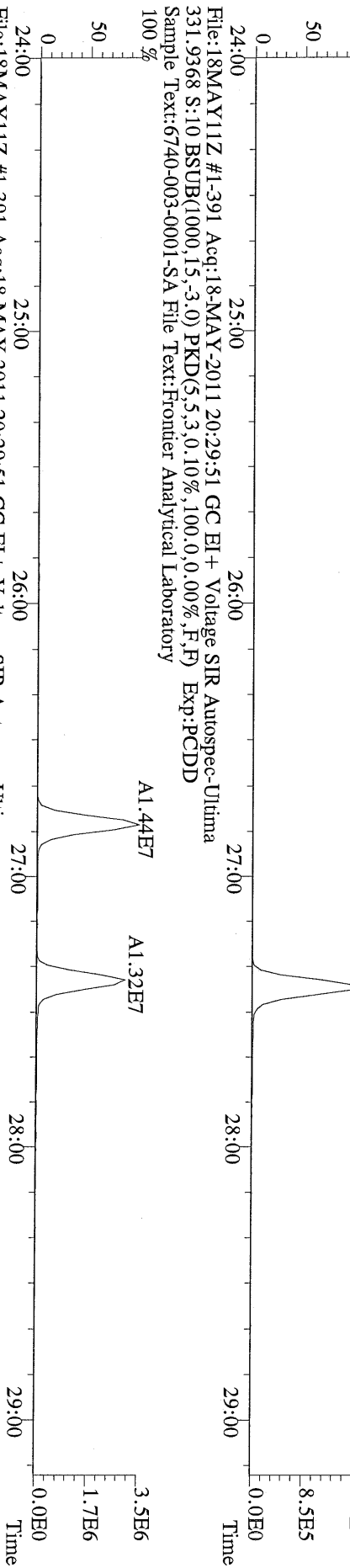
Analyst: 

Date: 5/19/11

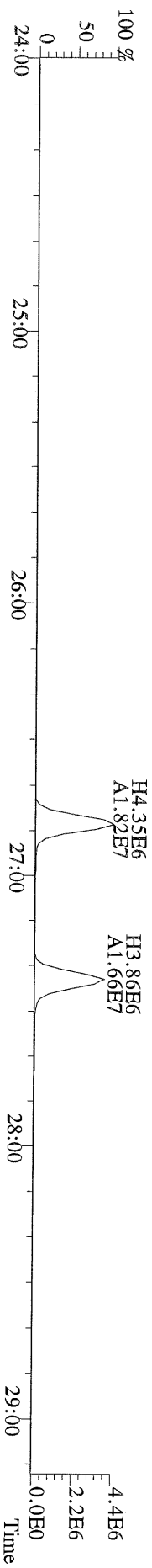
File:18MAY11Z #1-391 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 319.8965 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



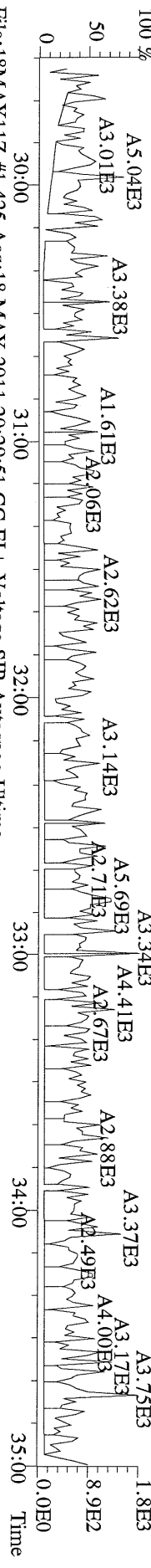
File:18MAY11Z #1-391 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 327.8847 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



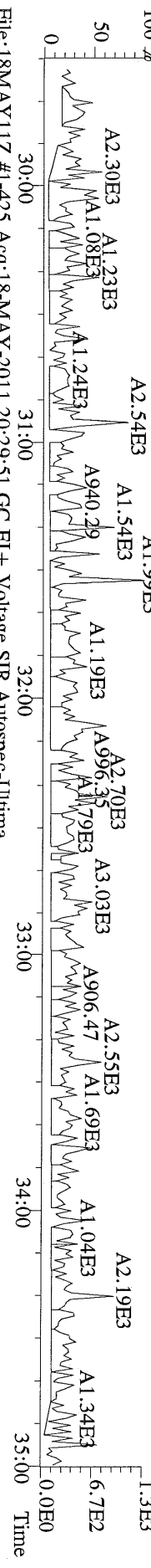
File:18MAY11Z #1-391 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 333.9339 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



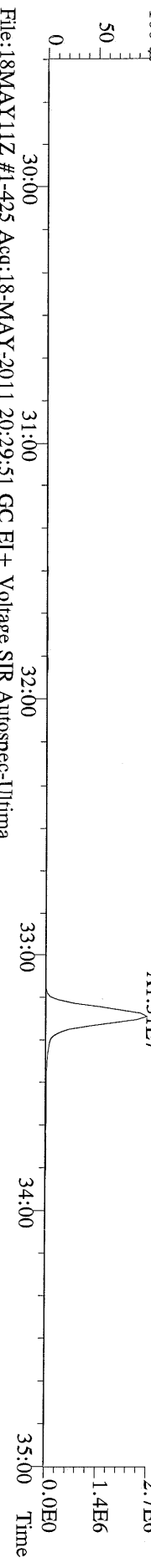
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:10 F:2 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



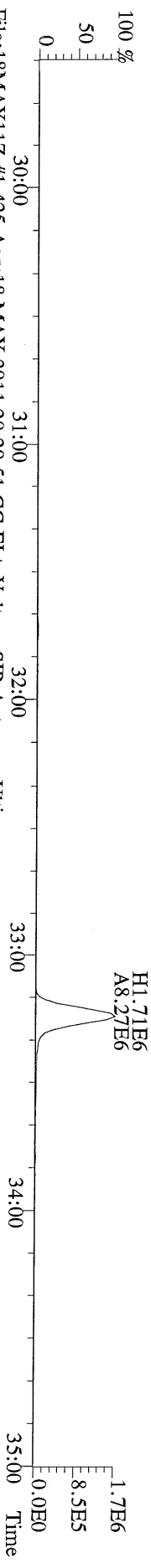
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:10 F:2 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



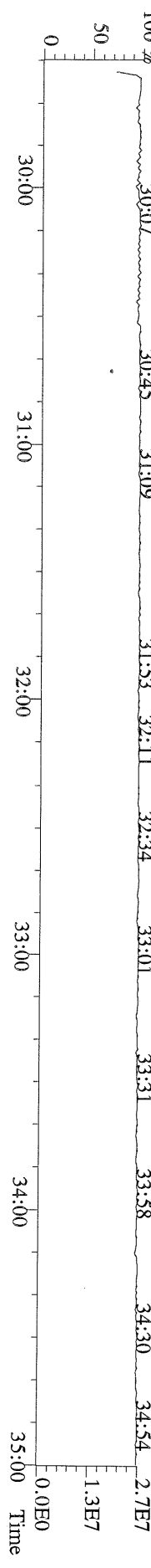
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:10 F:2 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



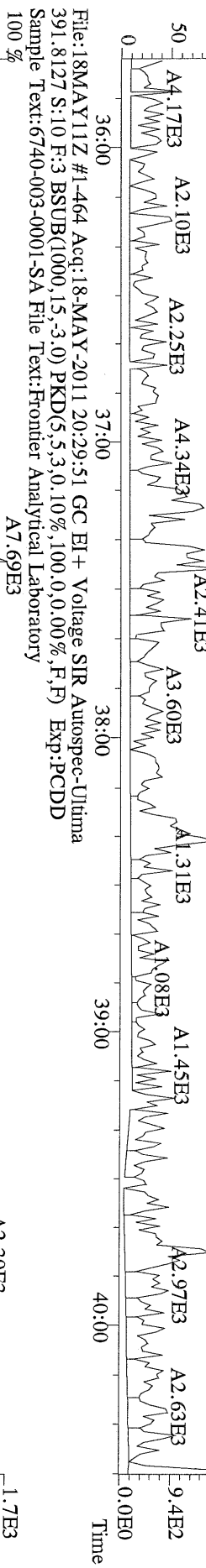
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:10 F:2 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



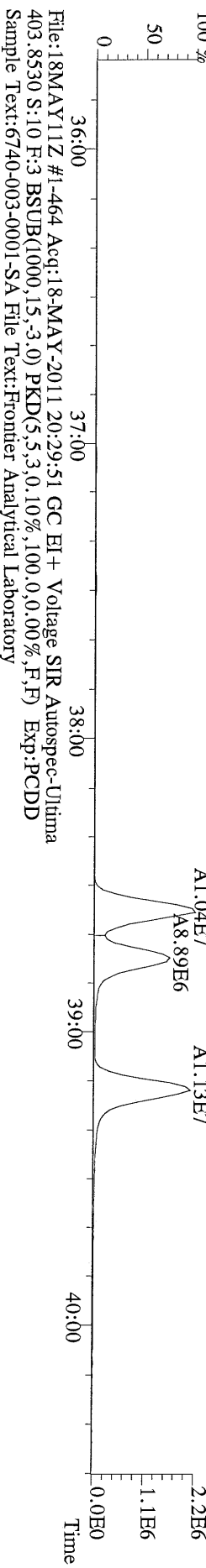
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:10 F:2 Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-464 Acq:18-MAY-2011 20:29:51 GC EI + Voltage SIR Autospec-Ultima
 389.8156 S:10 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



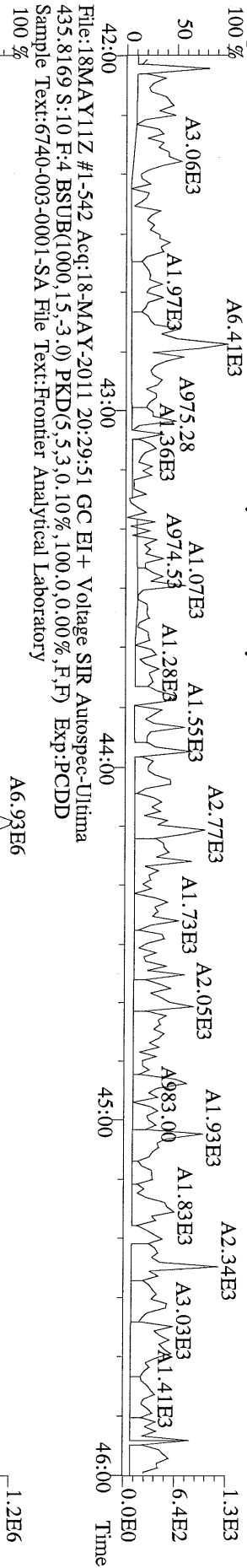
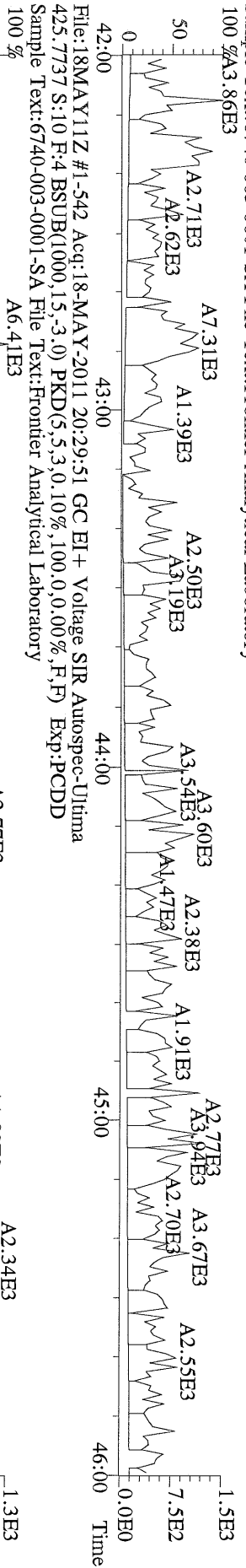
File:18MAY11Z #1-464 Acq:18-MAY-2011 20:29:51 GC EI + Voltage SIR Autospec-Ultima
 401.8559 S:10 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



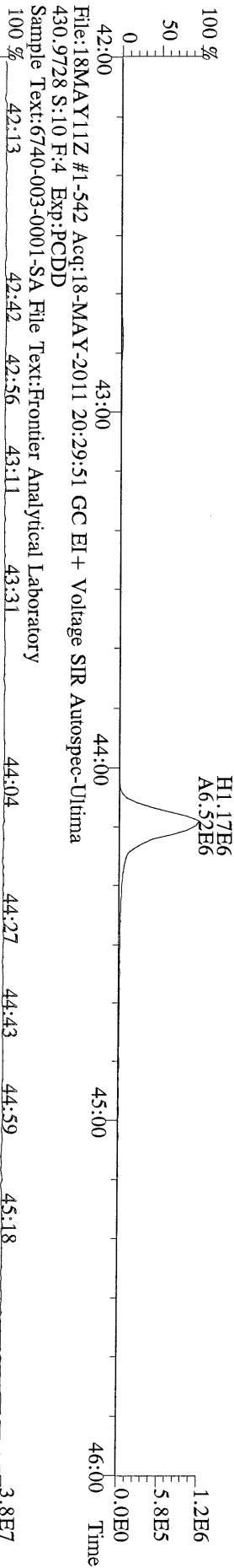
File:18MAY11Z #1-464 Acq:18-MAY-2011 20:29:51 GC EI + Voltage SIR Autospec-Ultima
 403.8530 S:10 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-542 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory
100 %A3.86E3

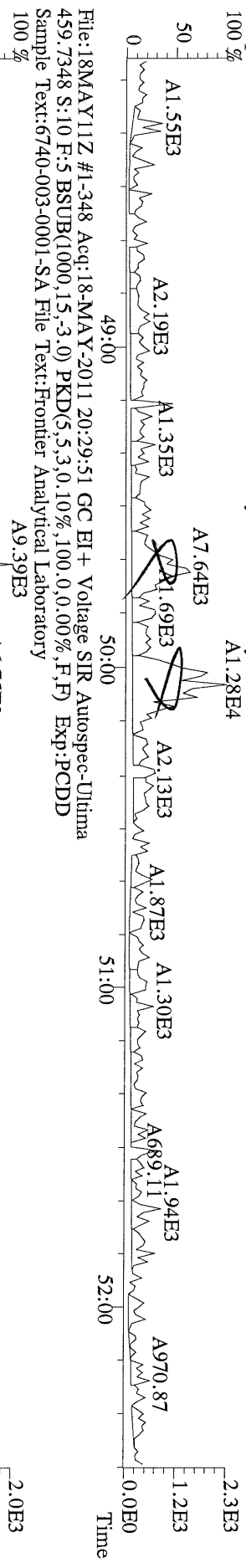


File:18MAY11Z #1-542 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory
100 %
A6.93E6

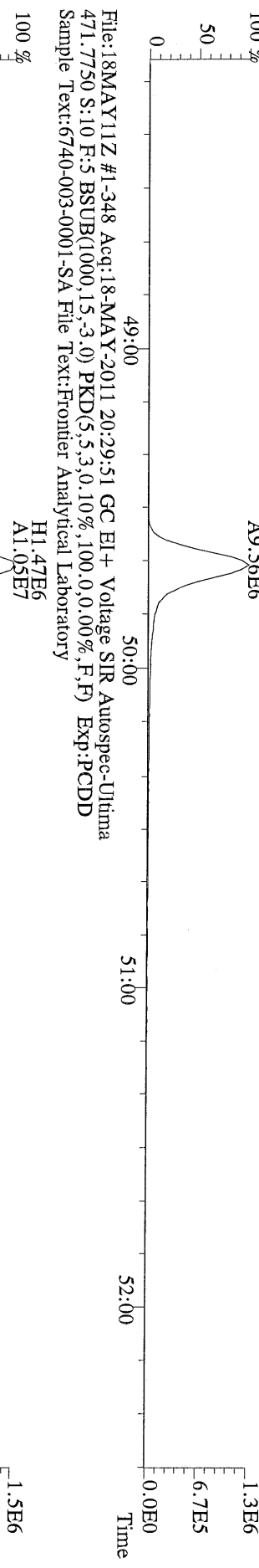


File:18MAY11Z #1-542 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:10 F:4 Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory
100 %
42:13 42:42 42:56 43:11 43:31 44:04 44:27 44:43 44:59 45:18
3.8E7
1.9E7
0.0E0

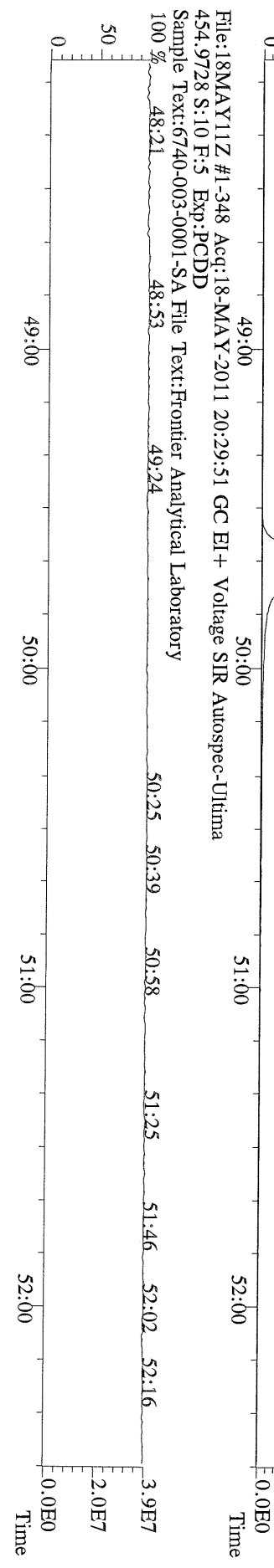
File:18MAY11Z #1-348 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:10 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



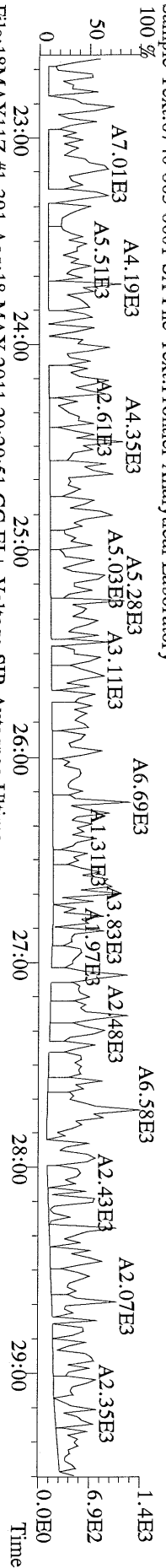
File:18MAY11Z #1-348 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:10 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



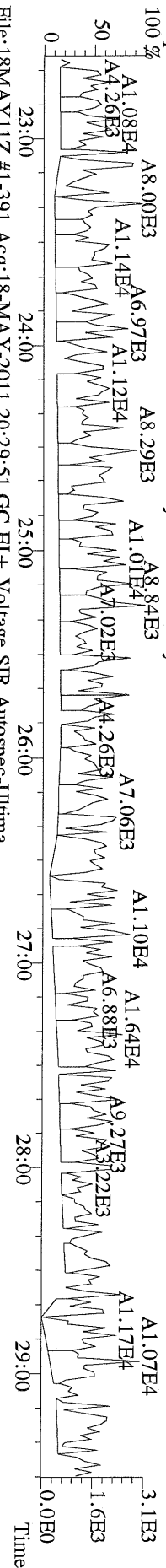
File:18MAY11Z #1-348 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:10 F:5 Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



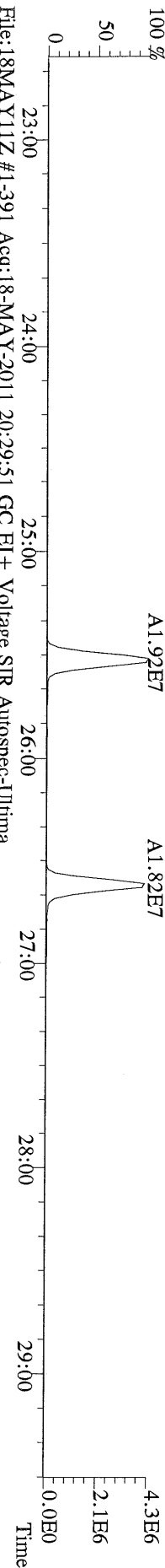
File:18MAY11Z #1-391 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



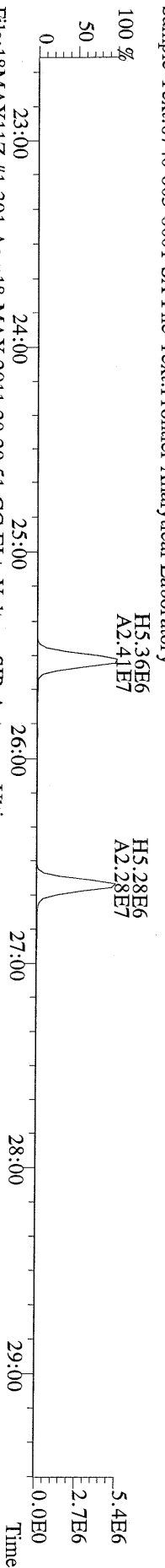
File:18MAY11Z #1-391 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



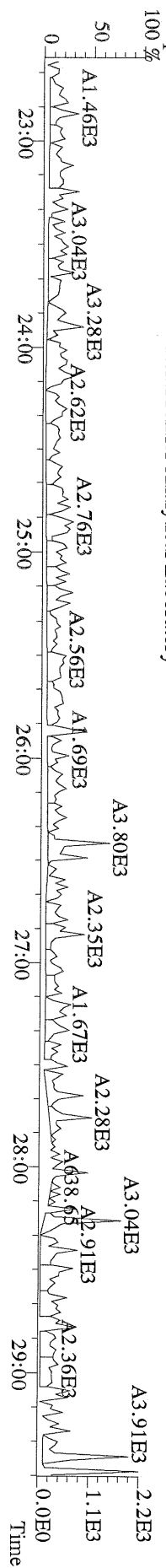
File:18MAY11Z #1-391 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



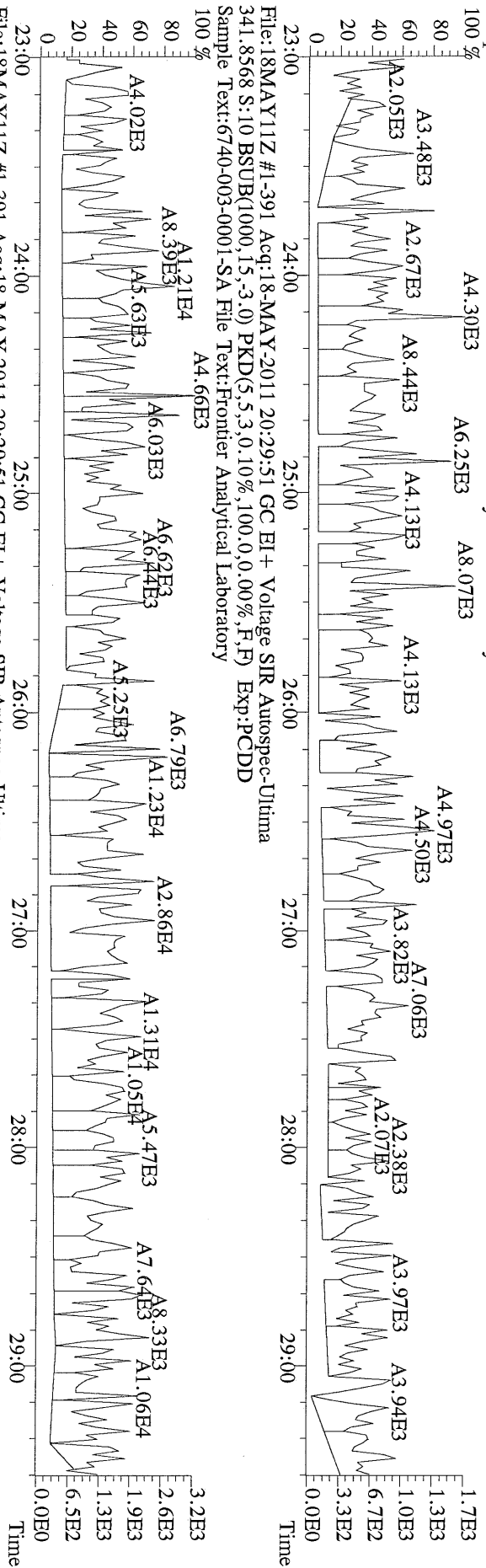
File:18MAY11Z #1-391 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



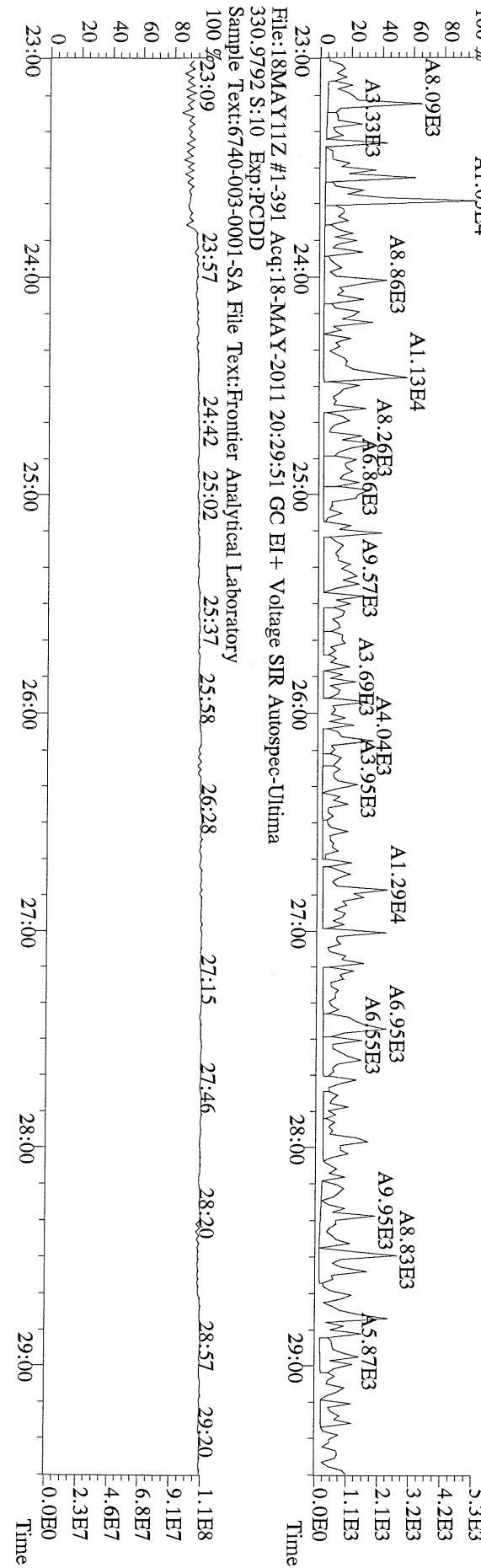
File:18MAY11Z #1-391 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



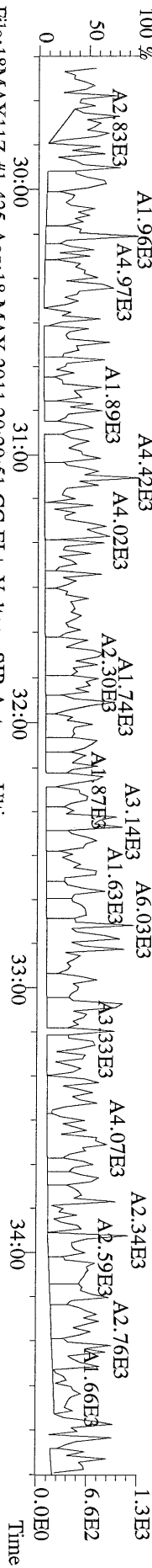
File:18MAY11Z #1-391 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



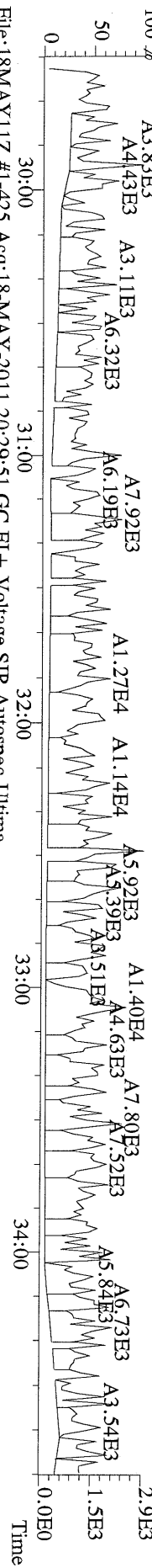
File:18MAY11Z #1-391 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



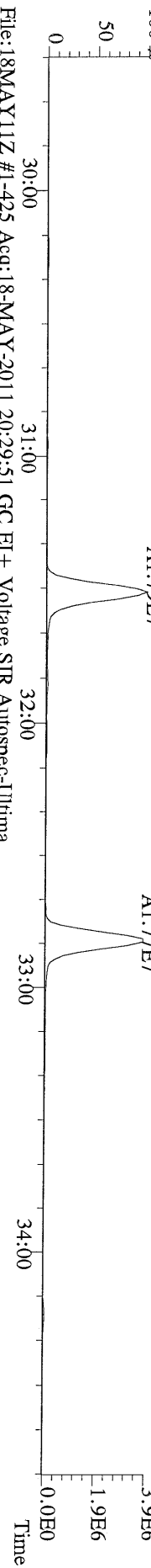
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI + Voltage SIR Autospec-Ultima
339.8597 S:10 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



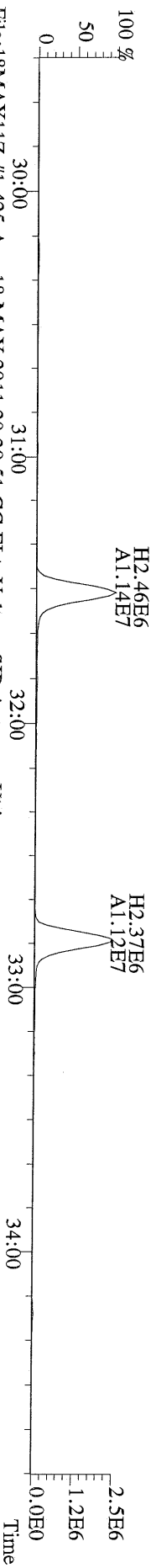
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI + Voltage SIR Autospec-Ultima
341.8568 S:10 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



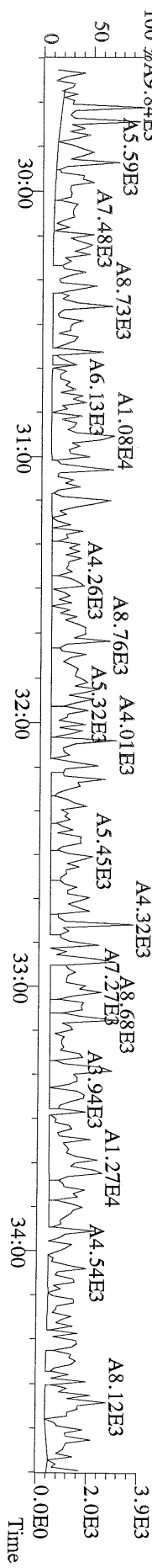
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI + Voltage SIR Autospec-Ultima
351.9000 S:10 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



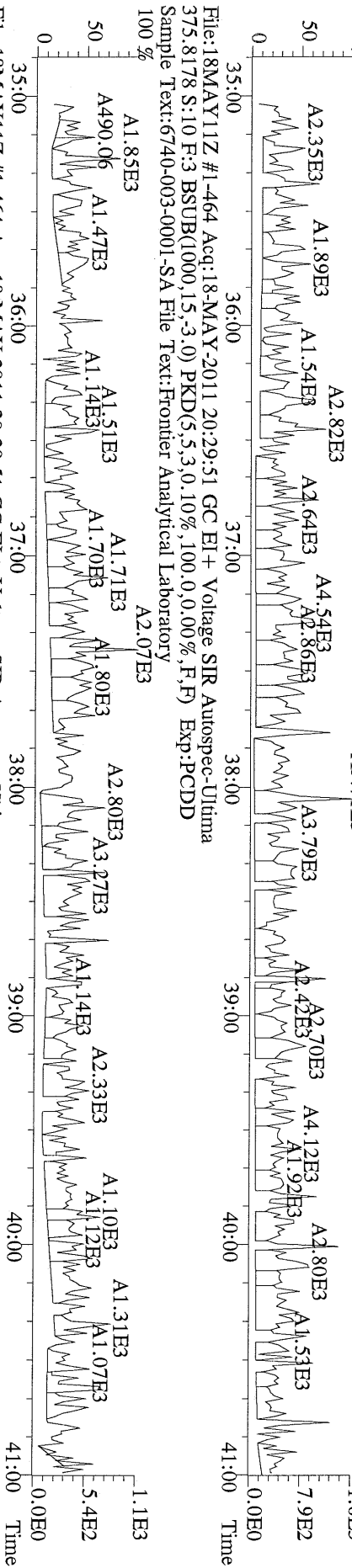
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI + Voltage SIR Autospec-Ultima
353.8970 S:10 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



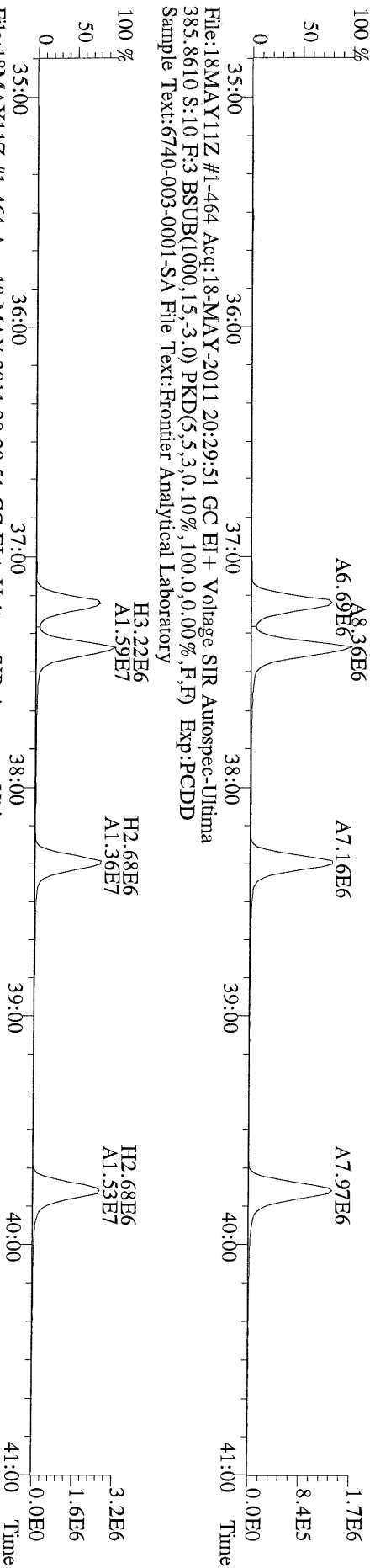
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI + Voltage SIR Autospec-Ultima
409.7974 S:10 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



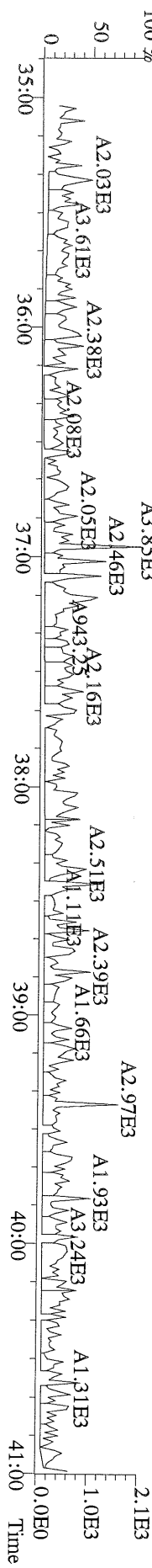
File:18MAY11Z #1-464 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:10 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,P) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



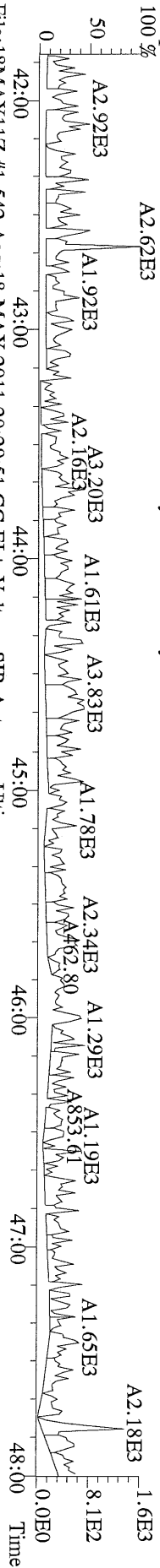
File:18MAY11Z #1-464 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 383.8639 S:10 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,P) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



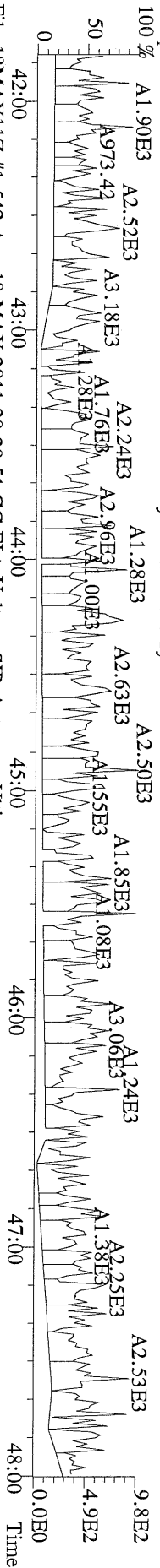
File:18MAY11Z #1-464 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 445.7555 S:10 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,P) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



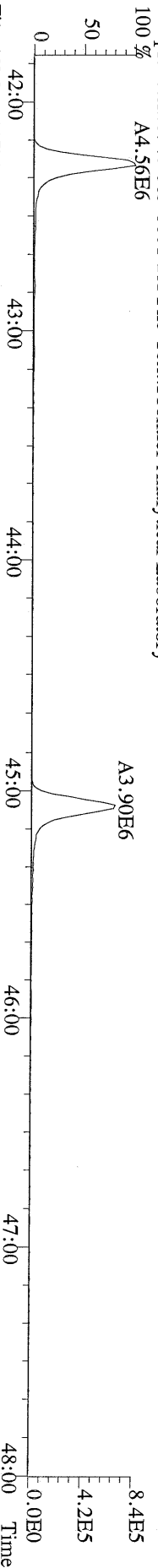
File:18MAY11Z #1-542 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



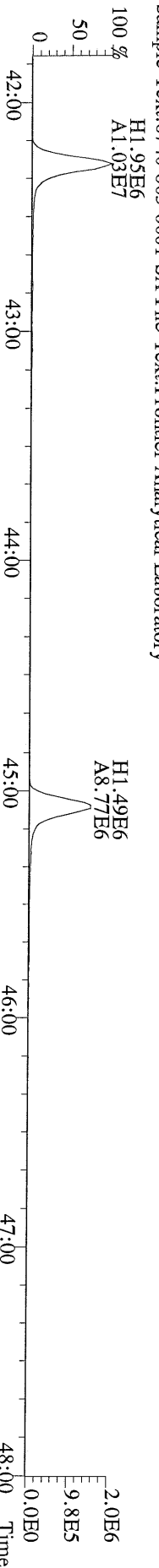
File:18MAY11Z #1-542 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 409.7788 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



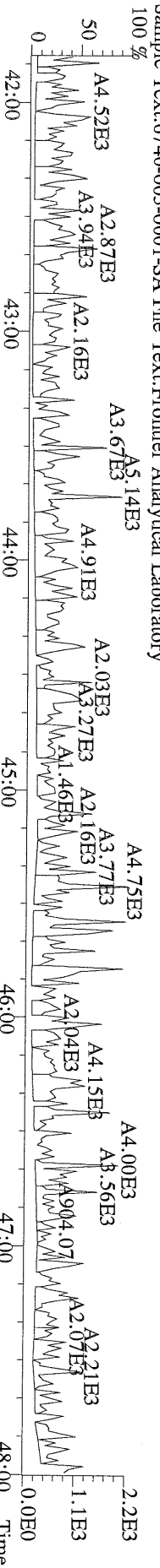
File:18MAY11Z #1-542 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 417.8253 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



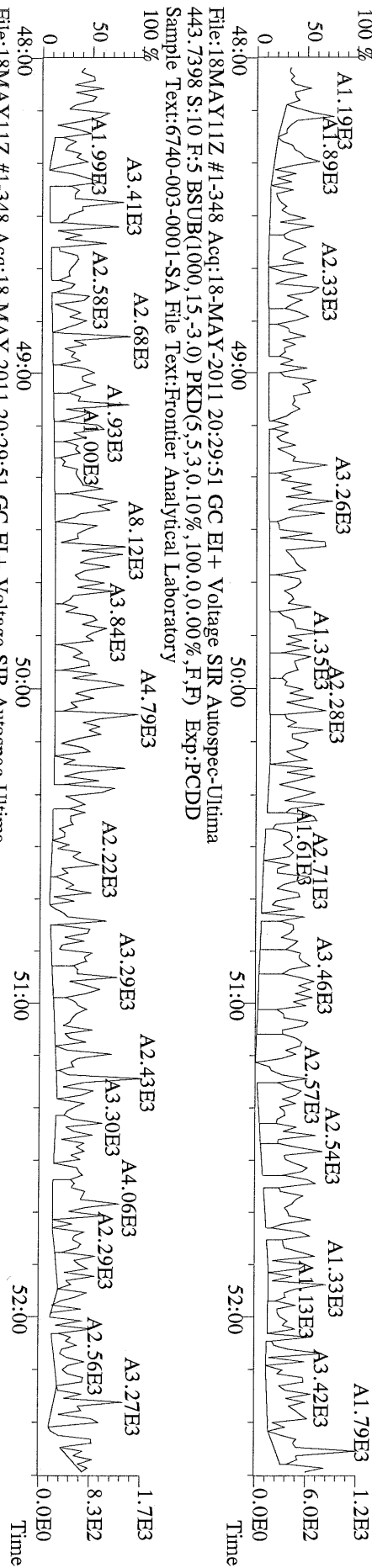
File:18MAY11Z #1-542 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 419.8220 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



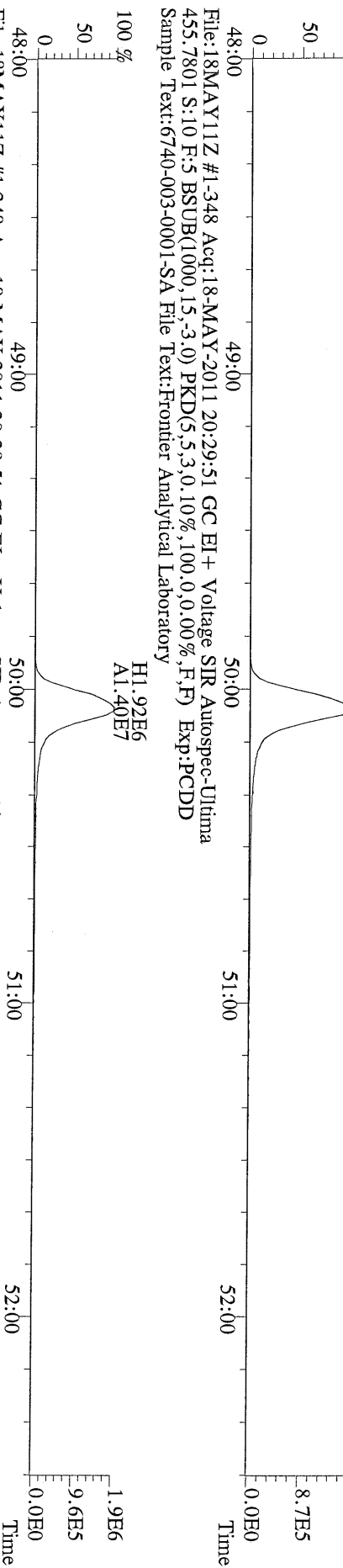
File:18MAY11Z #1-542 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 479.7165 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



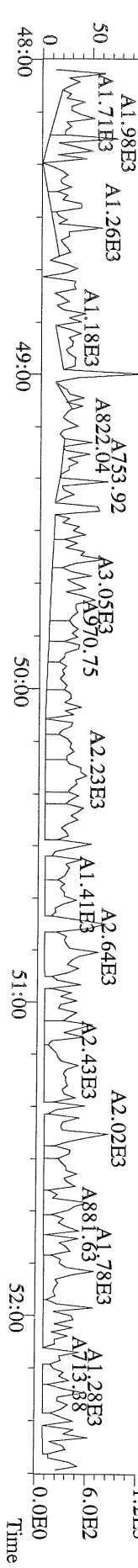
File:18MAY11Z #1-348 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:10 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:10 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:10 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



Name	Resp	RA	RT	RRF	WHO 1998 Tox:		WHO 2005 Tox:		DL	#Hom
					Conc	Qual	Fac Noise-1	Noise-2		
2,3,7,8-TCDD	*	* n	NotFnd	1.15	*	2.50	636	663	0.962	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*	2.50	832	380	1.50	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.09	*	2.50	652	748	1.95	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.08	*	2.50	652	748	2.48	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.12	*	2.50	652	748	2.13	
1,2,3,4,6,7,8-HpCDD	4.28e+04	0.92 y	44:12	1.03	7.05	J	2.50	-	-	*
OCDD	1.67e+05	0.87 y	49:42	1.21	31.5	J	2.50	-	-	*
2,3,7,8-TCDF	*	* n	NotFnd	1.09	*	2.50	522	1050	0.931	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.96	*	2.50	467	877	1.30	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.96	*	2.50	467	877	1.29	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.18	*	2.50	540	416	1.17	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.03	*	2.50	540	416	1.17	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.17	*	2.50	540	416	1.17	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.27	*	2.50	540	416	1.02	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.36	*	2.50	552	520	1.71	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.35	*	2.50	552	520	2.11	
OCDF	*	* n	NotFnd	0.97	*	2.50	402	542	2.99	
										Rec
13C-2,3,7,8-TCDD	2.50e+07	0.79 y	27:23	0.99	1760					90.3
13C-1,2,3,7,8-PeCDD	1.79e+07	1.57 y	33:15	0.79	1570					80.9
13C-1,2,3,4,7,8-HxCDD	1.54e+07	1.26 y	38:35	1.03	1730					88.8
13C-1,2,3,6,7,8-HxCDD	1.32e+07	1.27 y	38:45	0.96	1600					82.1
13C-1,2,3,4,6,7,8-HpCDD	1.14e+07	1.06 y	44:10	0.75	1760					90.8
13C-OCDD	1.71e+07	0.88 y	49:40	0.50	3930					101
13C-2,3,7,8-TCDF	3.33e+07	0.80 y	26:37	0.98	1760					90.7
13C-1,2,3,7,8-PeCDF	2.38e+07	1.58 y	31:31	0.78	1600					82.1
13C-2,3,4,7,8-PeCDF	2.43e+07	1.56 y	32:49	0.75	1680					86.3
13C-1,2,3,4,7,8-HxCDF	1.59e+07	0.52 y	37:12	1.05	1750					89.9
13C-1,2,3,6,7,8-HxCDF	1.97e+07	0.52 y	37:25	1.40	1620					83.6
13C-2,3,4,6,7,8-HxCDF	1.70e+07	0.52 y	38:19	1.16	1690					87.2
13C-1,2,3,7,8,9-HxCDF	1.89e+07	0.51 y	39:46	1.30	1680					86.6
13C-1,2,3,4,6,7,8-HpCDF	1.21e+07	0.45 y	42:16	0.83	1690					87.2
13C-1,2,3,4,7,8,9-HpCDF	1.06e+07	0.44 y	45:04	0.69	1760					90.7
13C-OCDF	2.24e+07	0.88 y	50:03	0.77	3360					86.4
37Cl-2,3,7,8-TCDD	7.33e+06		27:24	0.71	717					92.3
13C-1,2,3,4-TCDD	2.79e+07	0.80 y	26:49	-	50.9					
13C-1,2,3,4-TCDF	3.74e+07	0.80 y	25:31	-	48.6					
13C-1,2,3,7,8,9-HxCDD	1.68e+07	1.26 y	39:12	-	42.3					
Total Tetra-Dioxins	*		NotFnd	1.15	*	2.50	636	663	0.962	0
Total Penta-Dioxins	*		NotFnd	1.02	*	2.50	832	380	1.50	0
Total Hexa-Dioxins	*		NotFnd	1.10	*	2.50	652	748	2.48	0
Total Hepta-Dioxins	8.28e+04		42:49	1.03	13.7	J	2.50	-	-	*
Total Tetra-Furans	*		NotFnd	1.09	*	2.50	522	1050	0.931	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.96	*	2.50	467	877	1.30	PeCDF 0
Total Penta-Furans	*		NotFnd	0.96	*	2.50	467	877	1.30	*
Total Hexa-Furans	*		NotFnd	1.16	*	2.50	540	416	1.17	0
Total Hepta-Furans	*		NotFnd	1.36	*	2.50	552	520	2.11	0

Analyst: 

Date: 5/19/11

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 17

File: 18MAY11Z

S: 11 I: 1 F: 4

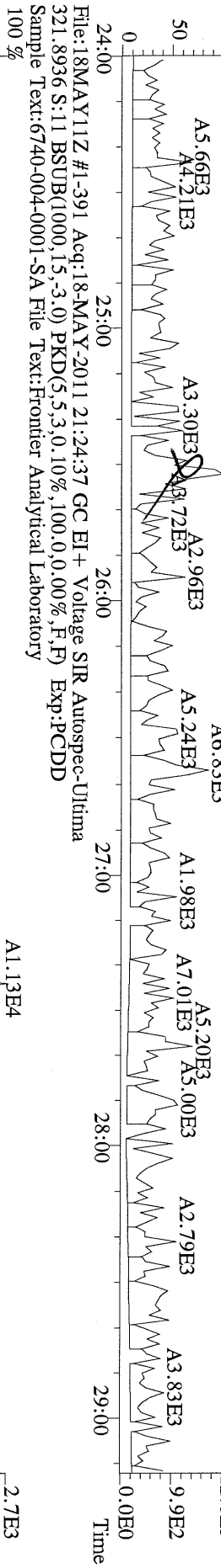
Acquired: 18-MAY-11 21:24:37

Total Concentration: 13.7

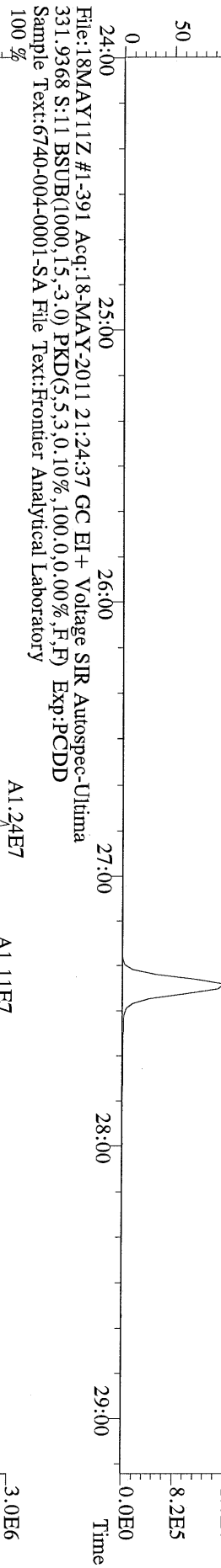
Unnamed Concentration: 6.607

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:49	2.00e+04	2.01e+04	0.99 y	4.01e+04	6.61	
44:12	2.05e+04	2.23e+04	0.92 y	4.28e+04	7.05	1,2,3,4,6,7,8-HpCDD

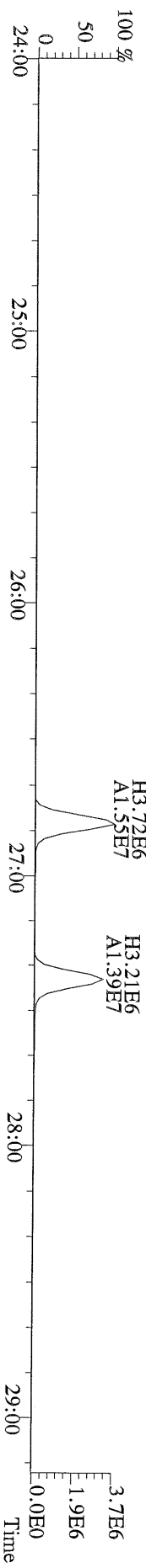
File:18MAY11Z #1-391 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:11 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



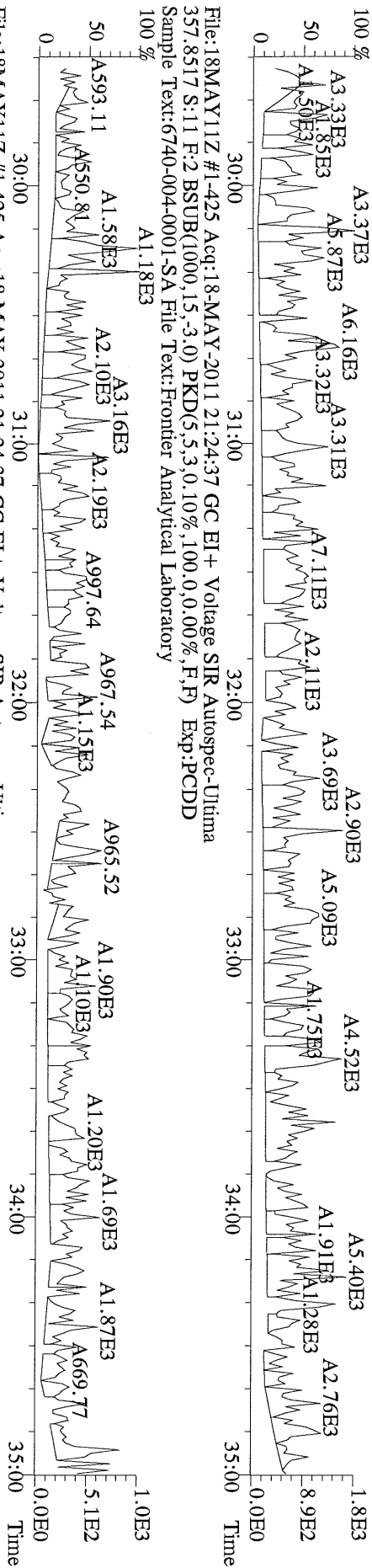
File:18MAY11Z #1-391 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
327.8847 S:11 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



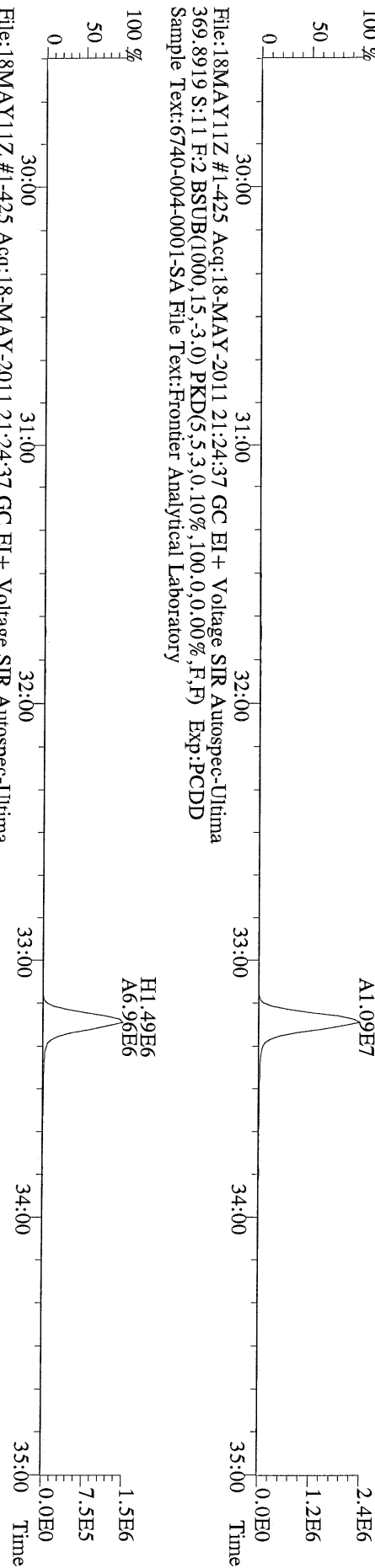
File:18MAY11Z #1-391 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
333.9339 S:11 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



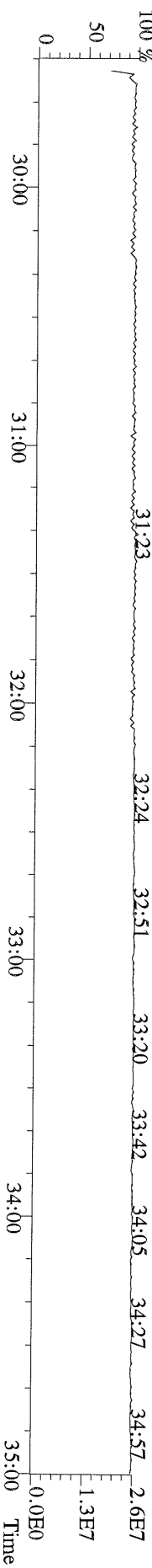
File:18MAY11Z #1-425 Acq:18-MAY-2011 21:24:37 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:11 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



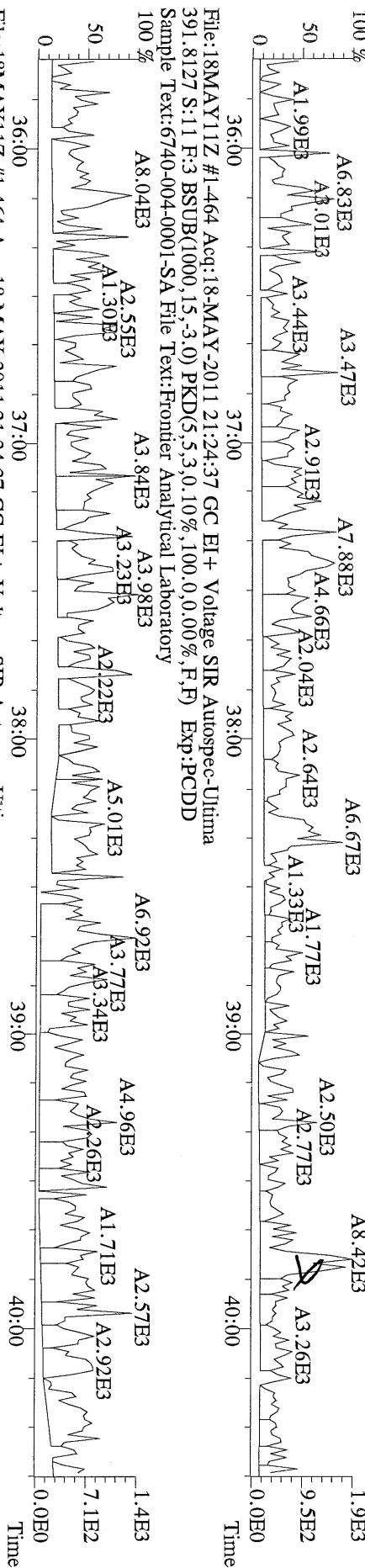
File:18MAY11Z #1-425 Acq:18-MAY-2011 21:24:37 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:11 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



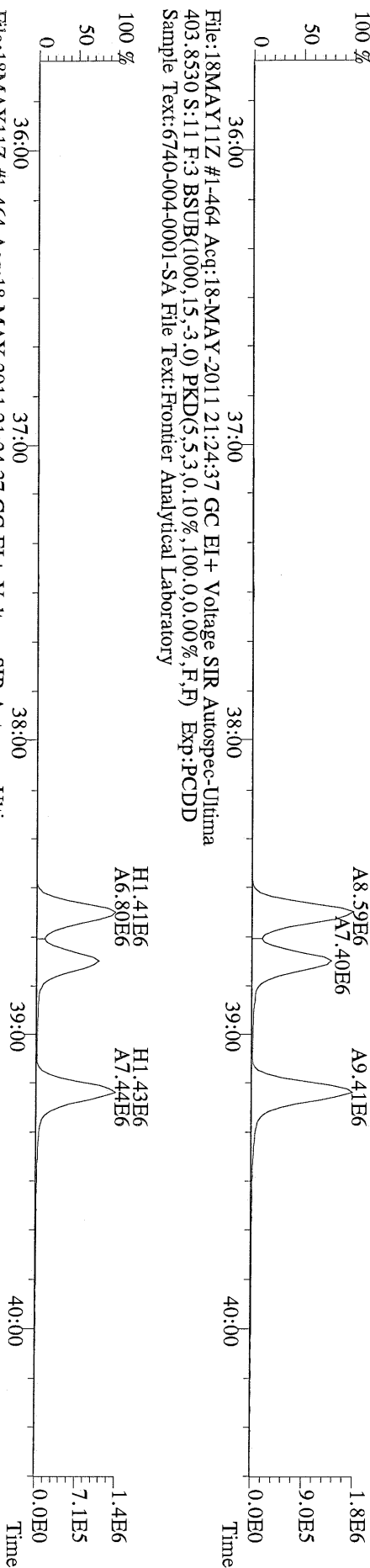
File:18MAY11Z #1-425 Acq:18-MAY-2011 21:24:37 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:11 F:2 Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



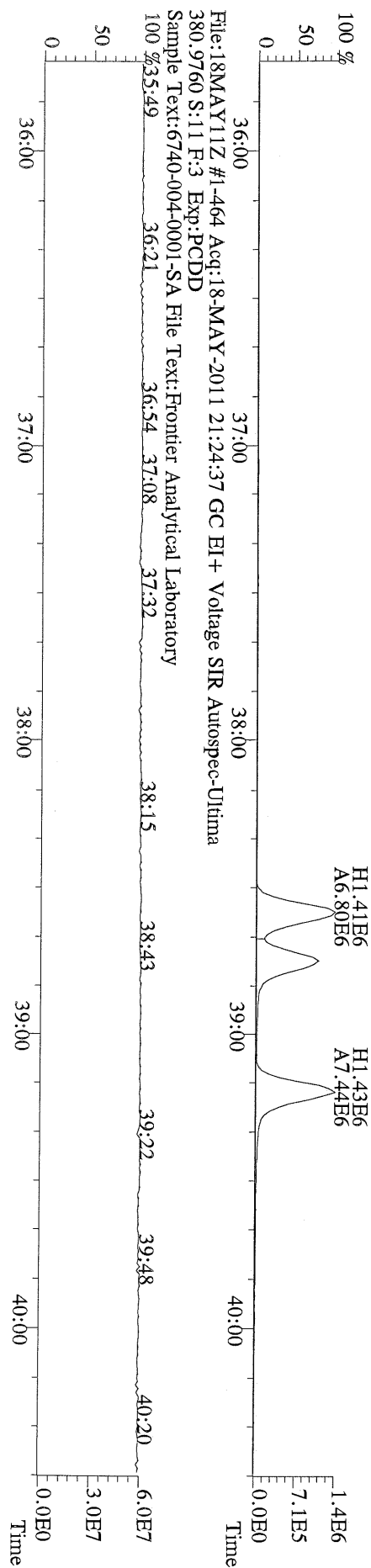
File:18MAY11Z #1-464 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
389.8156 S:11 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



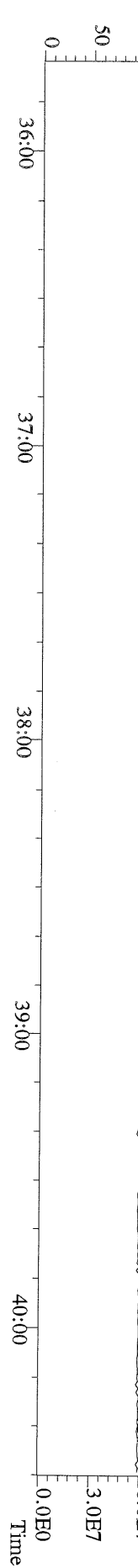
File:18MAY11Z #1-464 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
401.8559 S:11 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



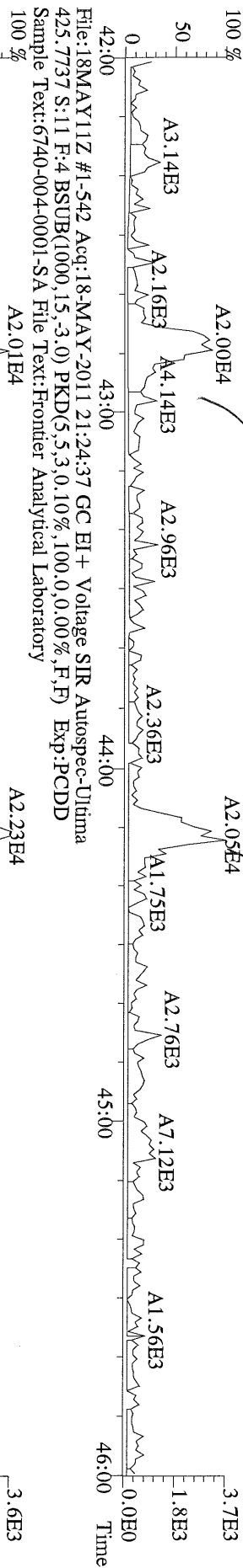
File:18MAY11Z #1-464 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
403.8530 S:11 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



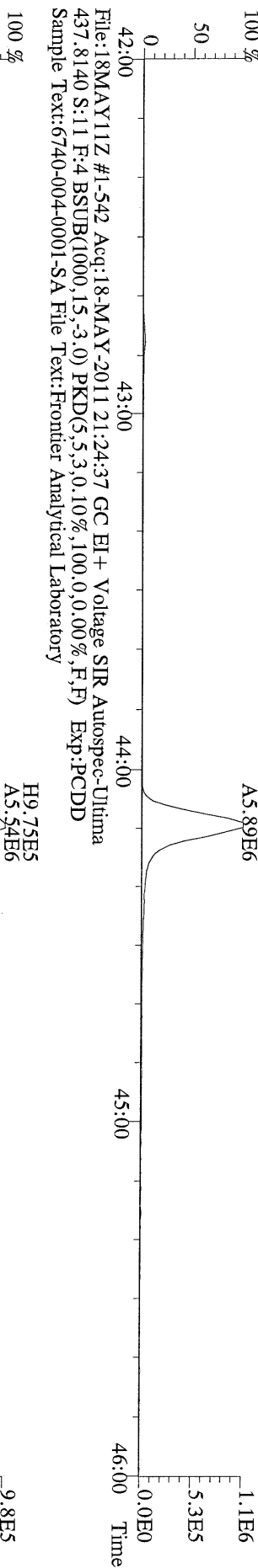
File:18MAY11Z #1-464 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
380.9760 S:11 F:3 Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



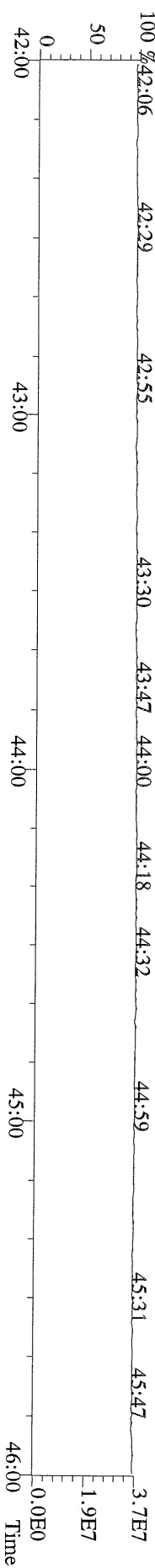
File:18MAY11Z #1-542 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
423.7767 S:11 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-542 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
435.8169 S:11 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



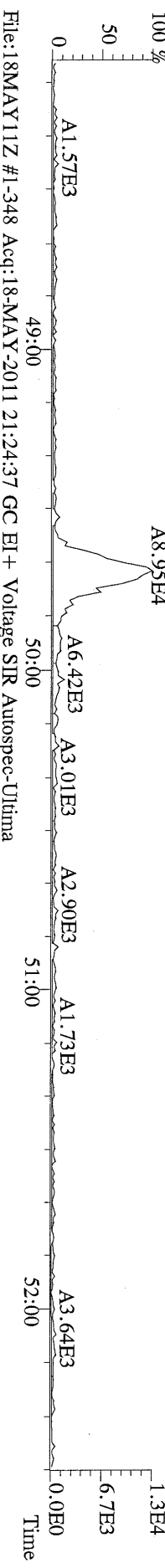
File:18MAY11Z #1-542 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
430.9728 S:11 F:4 Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



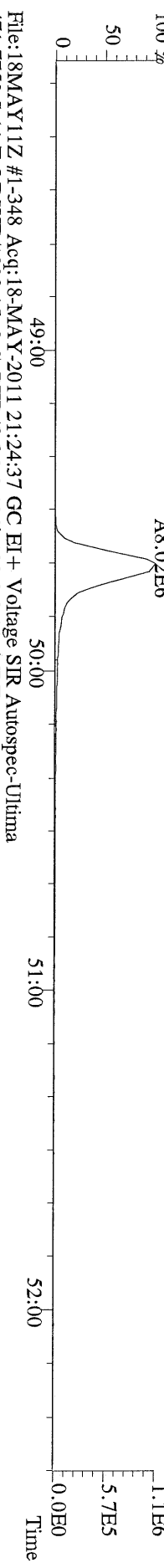
File:18MAY11Z #1-348 Acq:18-MAY-2011 21:24:37 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:11 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



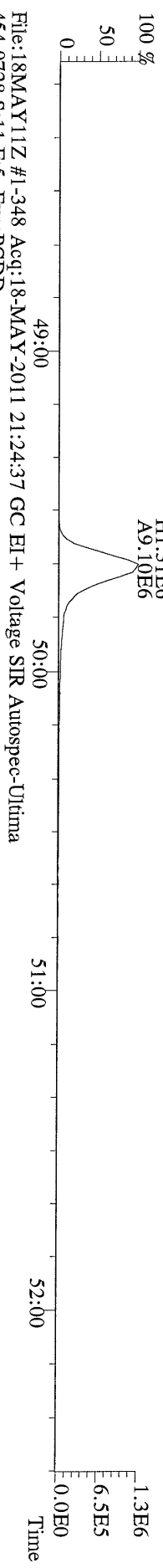
File:18MAY11Z #1-348 Acq:18-MAY-2011 21:24:37 GC EI+ Voltage SIR Autospec-Ultima
 459.7348 S:11 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



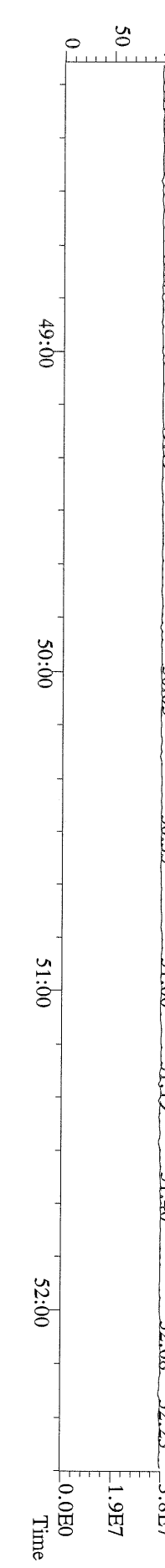
File:18MAY11Z #1-348 Acq:18-MAY-2011 21:24:37 GC EI+ Voltage SIR Autospec-Ultima
 469.7780 S:11 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



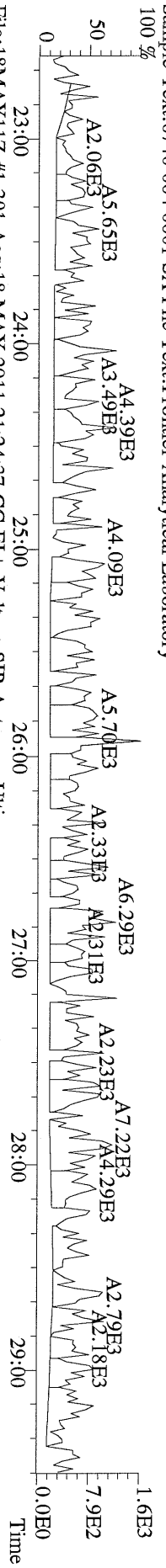
File:18MAY11Z #1-348 Acq:18-MAY-2011 21:24:37 GC EI+ Voltage SIR Autospec-Ultima
 471.7750 S:11 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



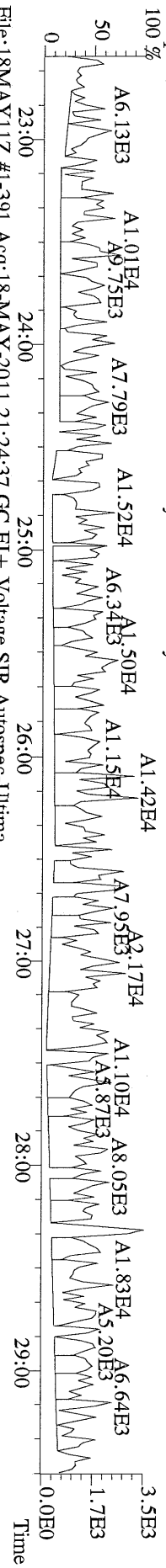
File:18MAY11Z #1-348 Acq:18-MAY-2011 21:24:37 GC EI+ Voltage SIR Autospec-Ultima
 454.9728 S:11 F:5 Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



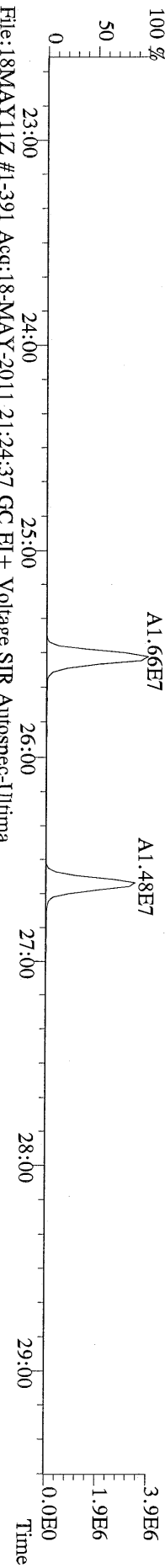
File:18MAY11Z #1-391 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
303.9016 S:11 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



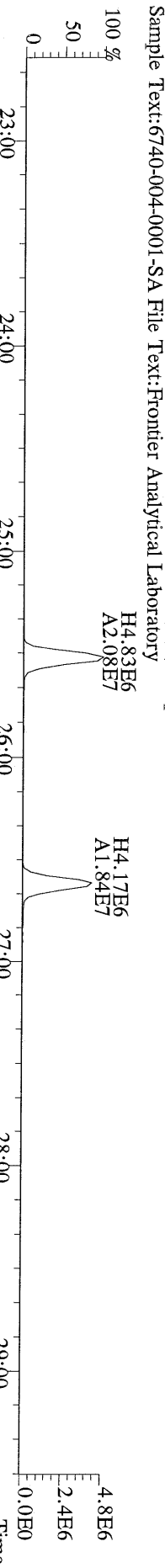
File:18MAY11Z #1-391 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
305.8987 S:11 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



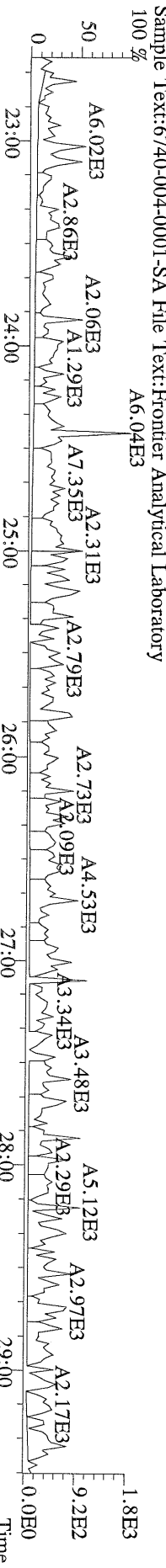
File:18MAY11Z #1-391 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
315.9419 S:11 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



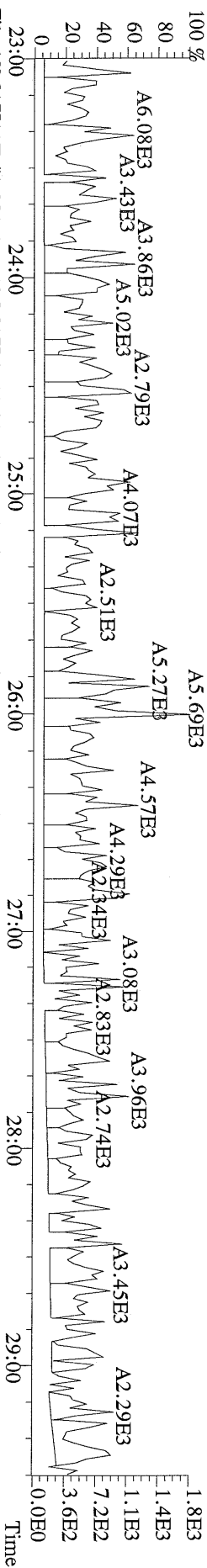
File:18MAY11Z #1-391 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
317.9389 S:11 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



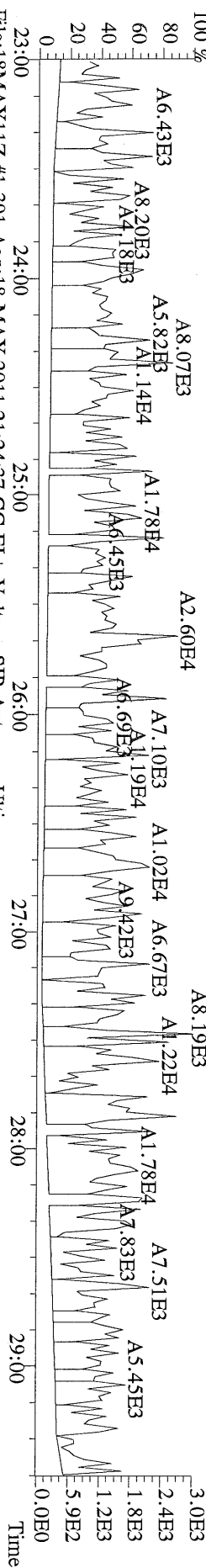
File:18MAY11Z #1-391 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
375.8364 S:11 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



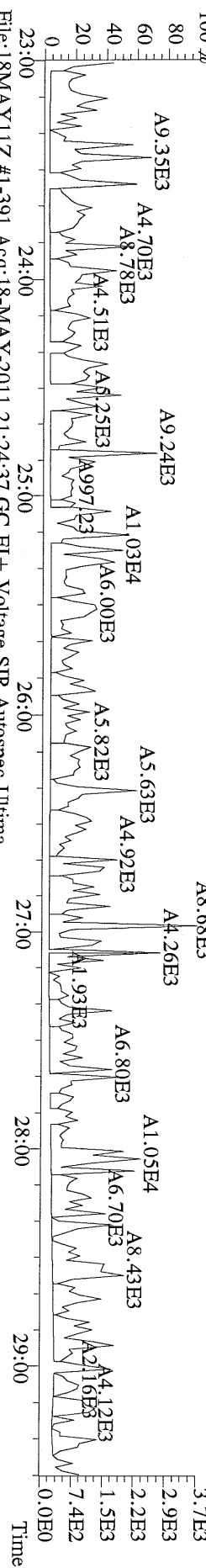
File:18MAY11Z #1-391 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
 339.8597 S:11 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



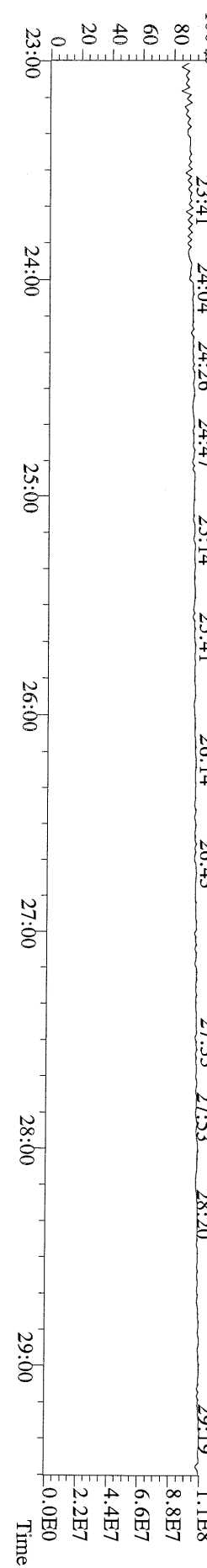
File:18MAY11Z #1-391 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
 341.8568 S:11 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



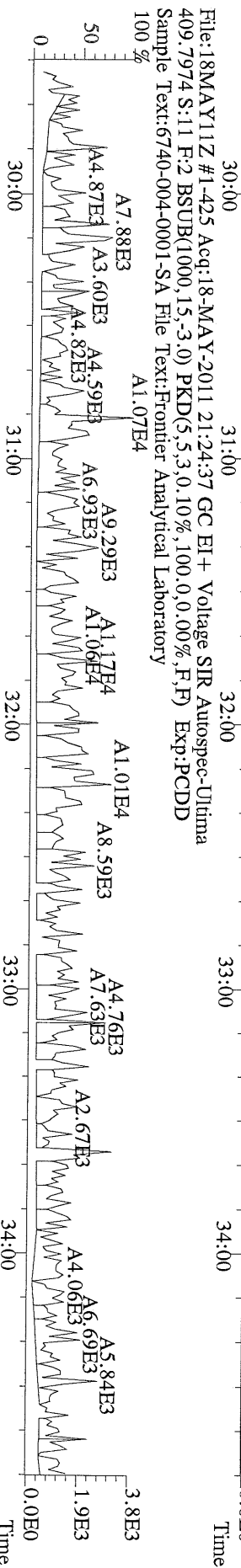
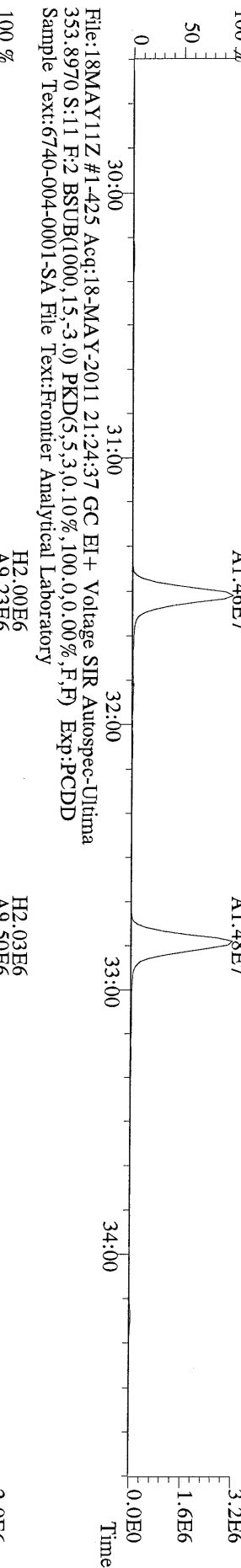
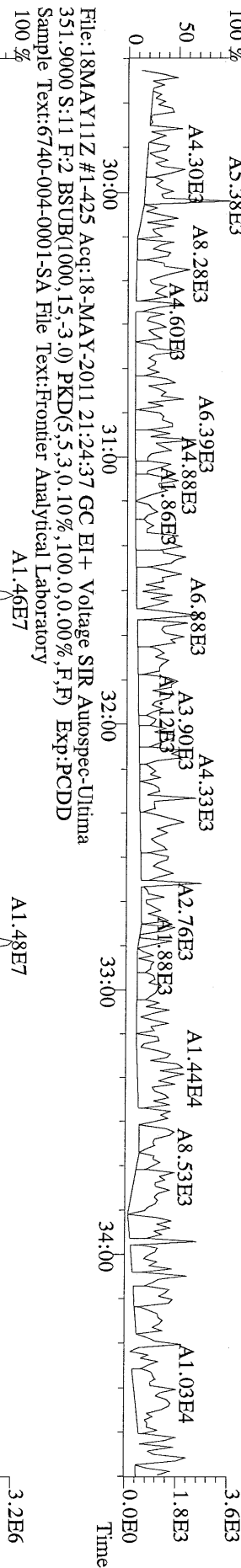
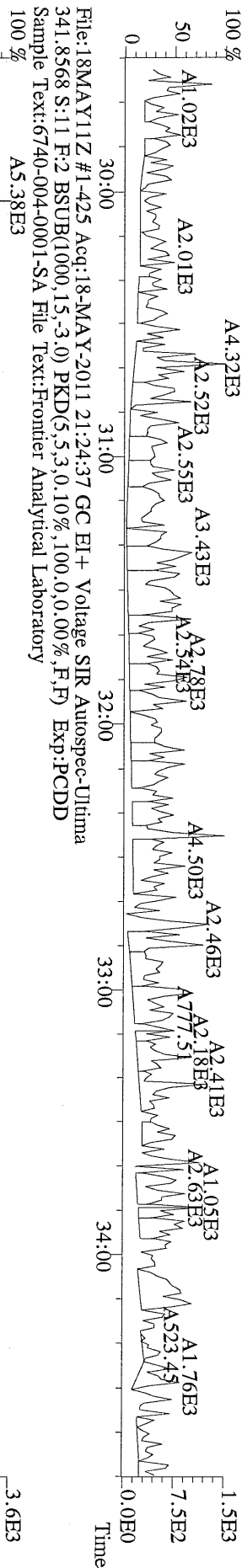
File:18MAY11Z #1-391 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
 409.7974 S:11 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



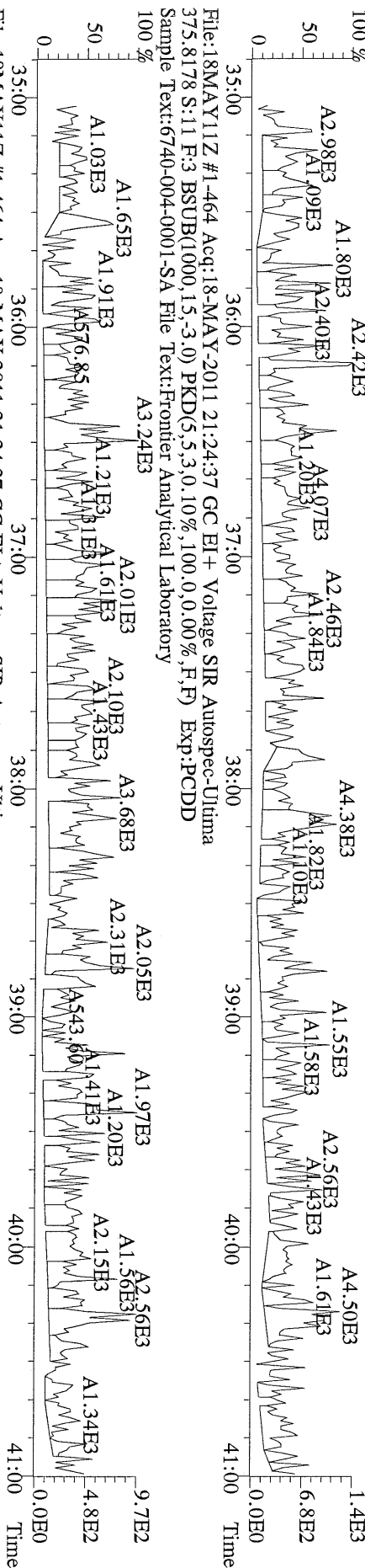
File:18MAY11Z #1-391 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
 330.9792 S:11 Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



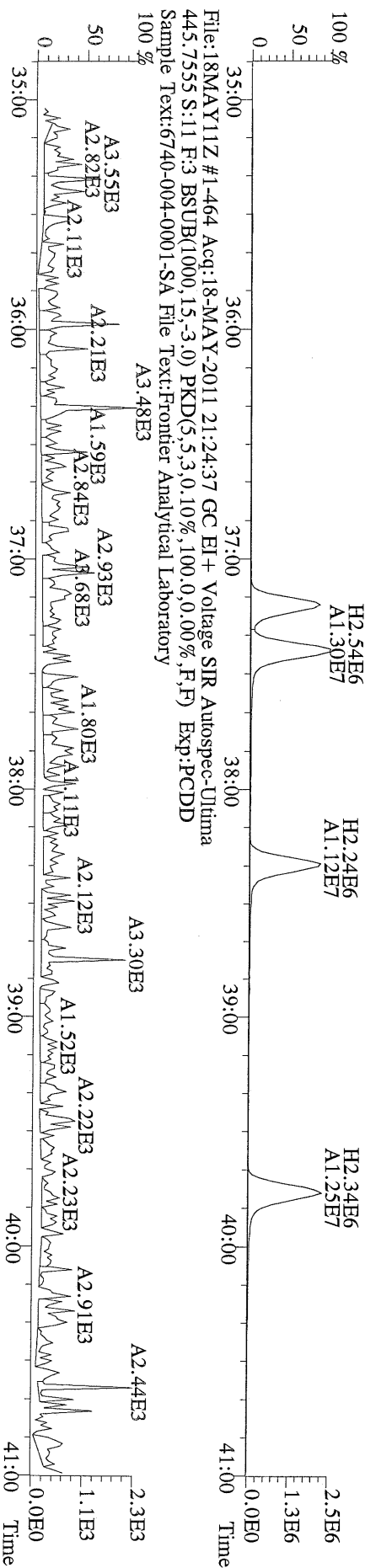
File:18MAY11Z #1-425 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Utima
 339.8597 S:11 F:2 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



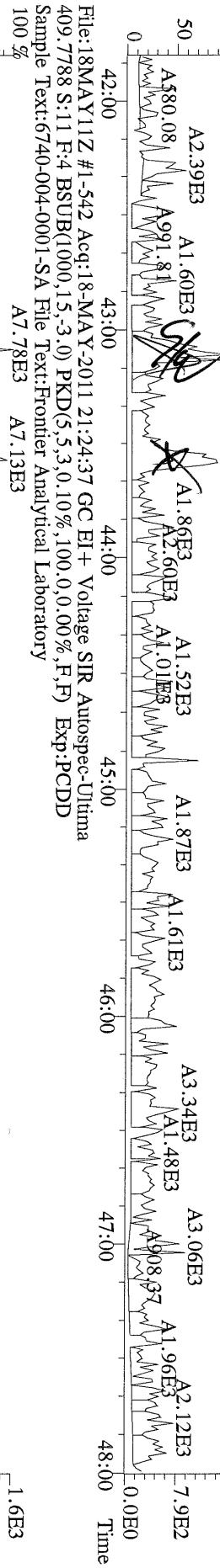
File:18MAY11Z #1-464 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
373.8207 S:11 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



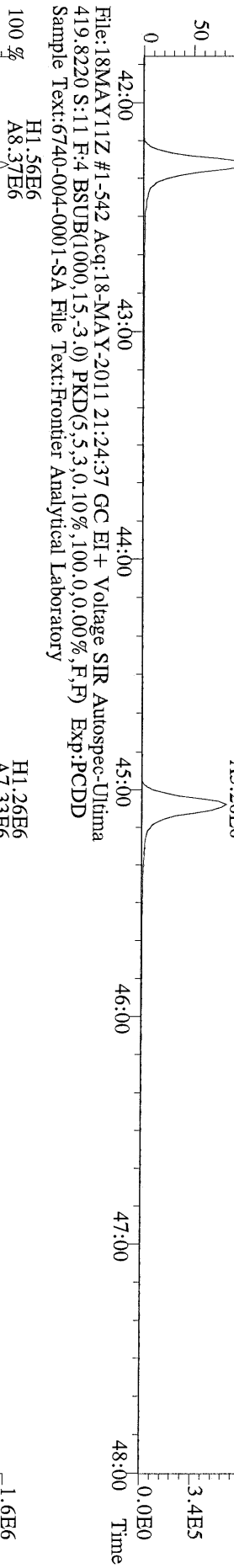
File:18MAY11Z #1-464 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
383.8639 S:11 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



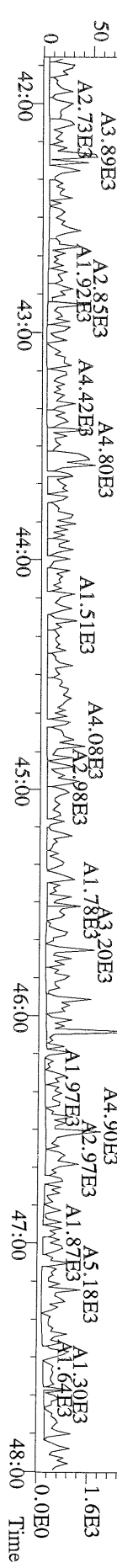
File:18MAY11Z #1-542 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
407.7818 S:11 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



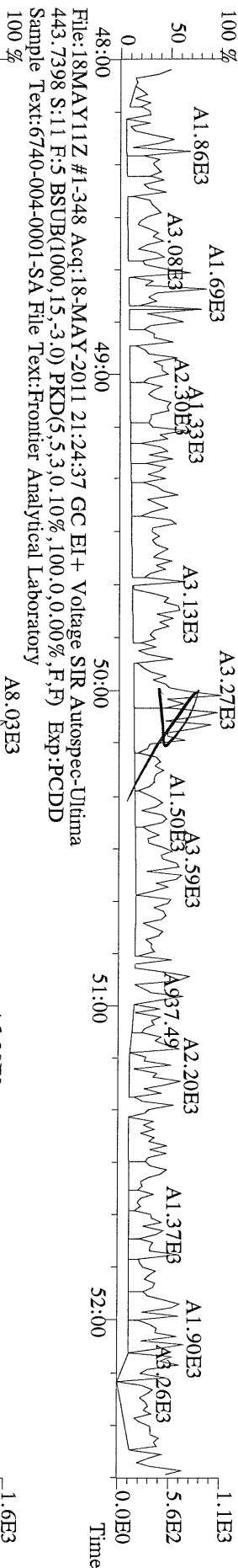
File:18MAY11Z #1-542 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
417.8253 S:11 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



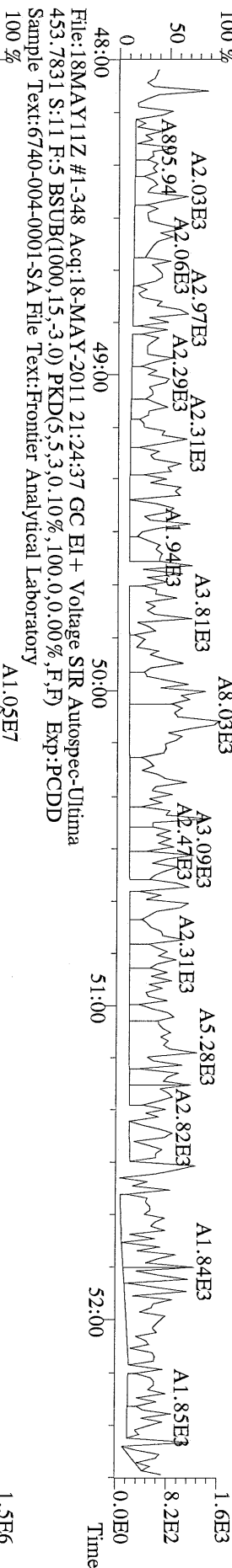
File:18MAY11Z #1-542 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
479.7165 S:11 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



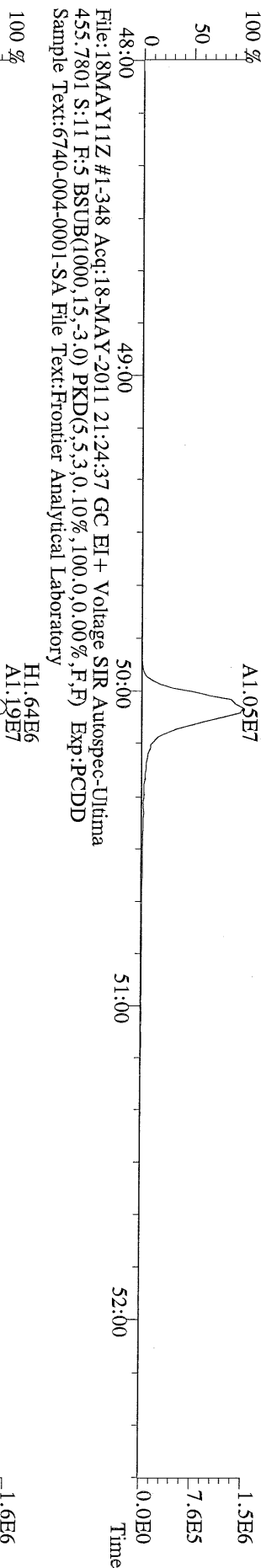
File:18MAY11Z #1-348 Acq:18-MAY-2011 21:24:37 GC EI+ Voltage SIR Autospec-Ultima
 441.7428 S:11 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



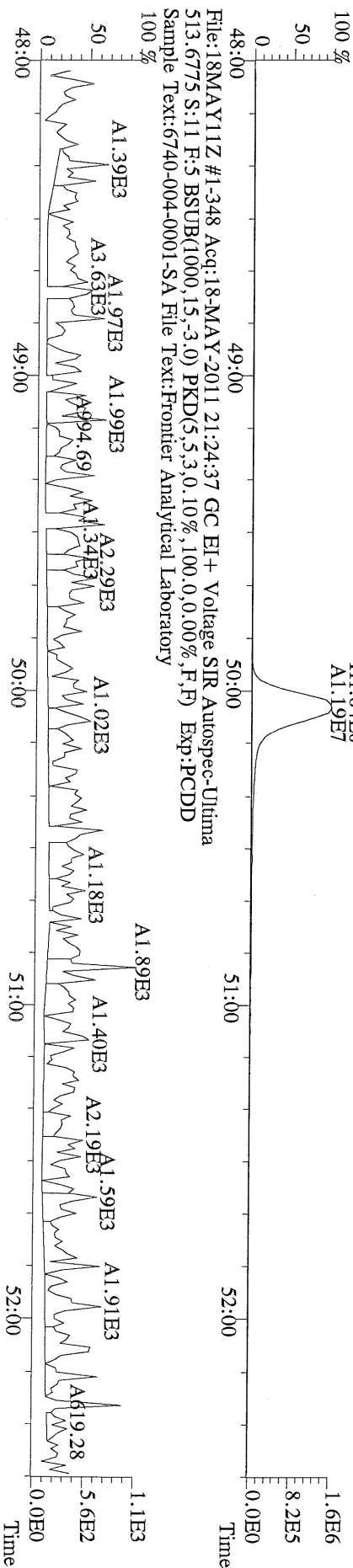
File:18MAY11Z #1-348 Acq:18-MAY-2011 21:24:37 GC EI+ Voltage SIR Autospec-Ultima
 443.7398 S:11 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 21:24:37 GC EI+ Voltage SIR Autospec-Ultima
 453.7831 S:11 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 21:24:37 GC EI+ Voltage SIR Autospec-Ultima
 455.7801 S:11 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 21:24:37 GC EI+ Voltage SIR Autospec-Ultima
 513.6775 S:11 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory

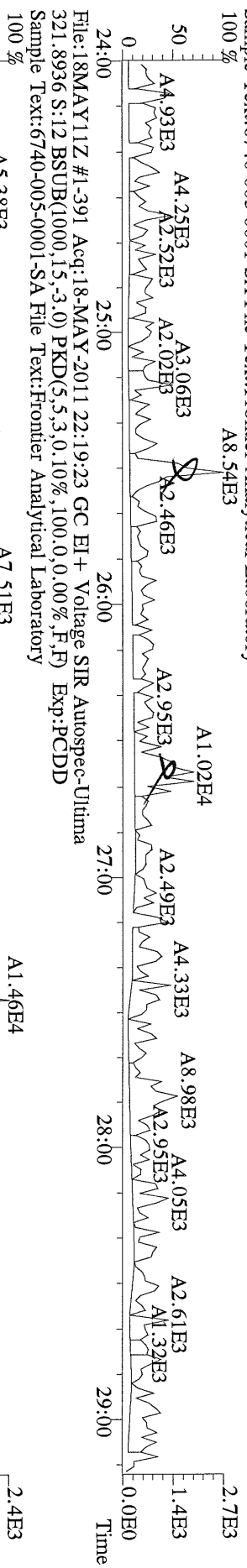
Results: 6739 GC Column: DB5 Amount: 1.032 NATO 1989 Tox: 0.00884 WHO 1998 Tox: 0.000884 WHO 2005 Tox: 0.00265

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.15	*		2.50	764	996	1.22	0
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	684	408	1.26	0
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.09	*		2.50	668	515	1.48	0
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.08	*		2.50	668	515	1.92	0
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.12	*		2.50	668	515	1.63	0
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.03	*		2.50	512	519	2.27	0
OCDD	5.09e+04	0.84 y	49:42	1.21	8.84	J	2.50	-	-	*	0
2,3,7,8-TCDF	*	* n	NotFnd	1.09	*		2.50	672	922	0.823	0
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	604	863	1.32	0
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	604	863	1.31	0
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.18	*		2.50	592	424	1.19	0
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.03	*		2.50	592	424	1.15	0
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.17	*		2.50	592	424	1.14	0
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.27	*		2.50	592	424	1.01	0
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.36	*		2.50	432	460	1.24	0
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.35	*		2.50	432	460	1.58	0
OCDF	*	* n	NotFnd	0.97	*		2.50	456	543	2.91	0
Rec											
13C-2,3,7,8-TCDD	2.69e+07	0.78 y	27:23	0.99	1860					96.2	0
13C-1,2,3,7,8-PeCDD	1.95e+07	1.58 y	33:14	0.79	1690					87.2	0
13C-1,2,3,4,7,8-HxCDD	1.70e+07	1.26 y	38:35	1.03	1800					92.7	0
13C-1,2,3,6,7,8-HxCDD	1.44e+07	1.28 y	38:45	0.96	1640					84.7	0
13C-1,2,3,4,6,7,8-HpCDD	1.20e+07	1.05 y	44:10	0.75	1750					90.4	0
13C-OCDD	1.85e+07	0.90 y	49:40	0.50	4010					103	0
13C-2,3,7,8-TCDF	3.73e+07	0.79 y	26:37	0.98	1920					99.2	0
13C-1,2,3,7,8-PeCDF	2.53e+07	1.56 y	31:31	0.78	1640					84.7	0
13C-2,3,4,7,8-PeCDF	2.61e+07	1.56 y	32:50	0.75	1750					90.4	0
13C-1,2,3,4,7,8-HxCDF	1.71e+07	0.52 y	37:12	1.05	1770					91.5	0
13C-1,2,3,6,7,8-HxCDF	2.14e+07	0.51 y	37:24	1.40	1670					86.0	0
13C-2,3,4,6,7,8-HxCDF	1.86e+07	0.52 y	38:20	1.16	1750					90.1	0
13C-1,2,3,7,8,9-HxCDF	2.09e+07	0.53 y	39:46	1.30	1760					90.6	0
13C-1,2,3,4,6,7,8-HpCDF	1.32e+07	0.45 y	42:16	0.83	1740					89.7	0
13C-1,2,3,4,7,8,9-HpCDF	1.17e+07	0.45 y	45:04	0.69	1840					94.9	0
13C-OCDF	2.46e+07	0.88 y	50:03	0.77	3490					89.9	0
37Cl-2,3,7,8-TCDD	7.65e+06		27:24	0.71	739					95.3	0
13C-1,2,3,4-TCDD	2.82e+07	0.80 y	26:48	-	51.3						0
13C-1,2,3,4-TCDF	3.84e+07	0.80 y	25:31	-	49.7						0
13C-1,2,3,7,8,9-HxCDD	1.78e+07	1.29 y	39:12	-	44.6						0
Total Tetra-Dioxins	*		NotFnd	1.15	*		2.50	764	996	1.22	0
Total Penta-Dioxins	*		NotFnd	1.02	*		2.50	684	408	1.26	0
Total Hexa-Dioxins	*		NotFnd	1.10	*		2.50	668	515	1.92	0
Total Hepta-Dioxins	*		NotFnd	1.03	*		2.50	512	519	2.27	0
Total Tetra-Furans	*		NotFnd	1.09	*		2.50	672	922	0.823	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.96	*		2.50	604	863	1.32 PeCDF	0
Total Penta-Furans	*		NotFnd	0.96	*		2.50	604	863	1.32 0.00	0
Total Hexa-Furans	*		NotFnd	1.16	*		2.50	592	424	1.19	0
Total Hepta-Furans	*		NotFnd	1.36	*		2.50	432	460	1.58	0

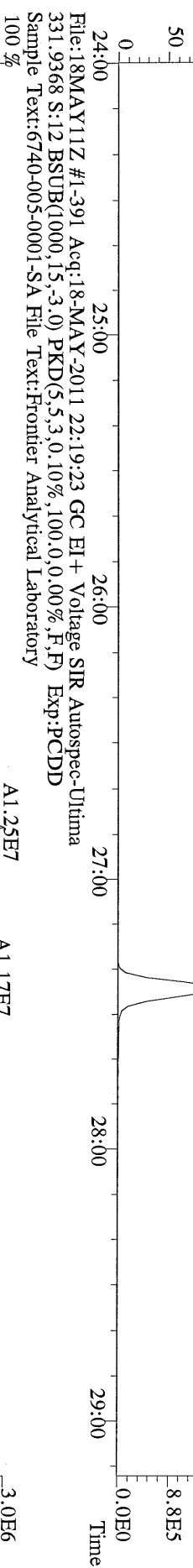
Analyst: J

Date: 5/19/17

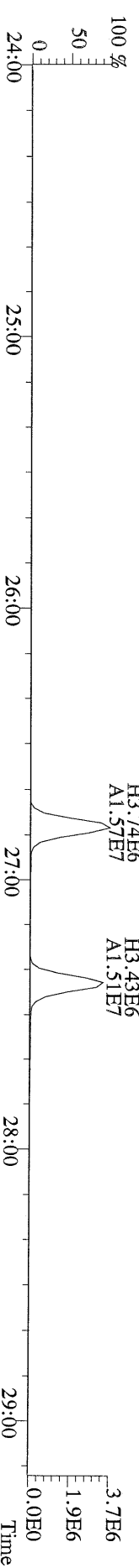
File:18MAY11Z #1-391 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:12 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



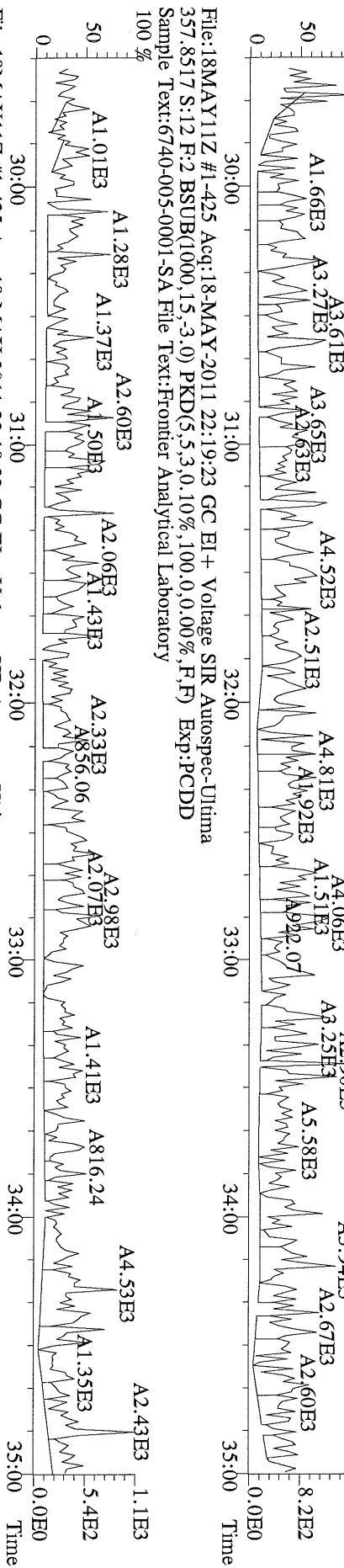
File:18MAY11Z #1-391 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:12 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



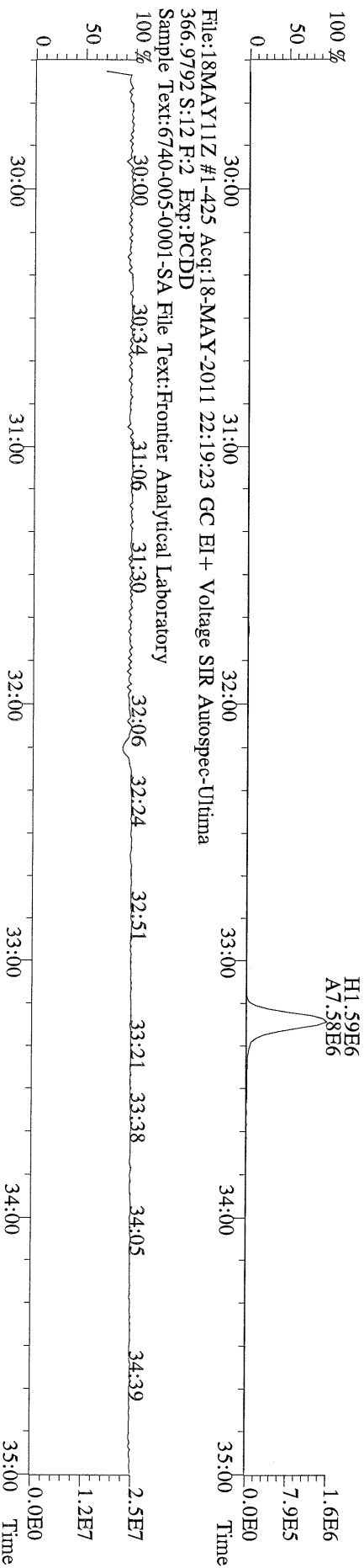
File:18MAY11Z #1-391 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:12 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-425 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
 355.8546 S:12 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
 Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory

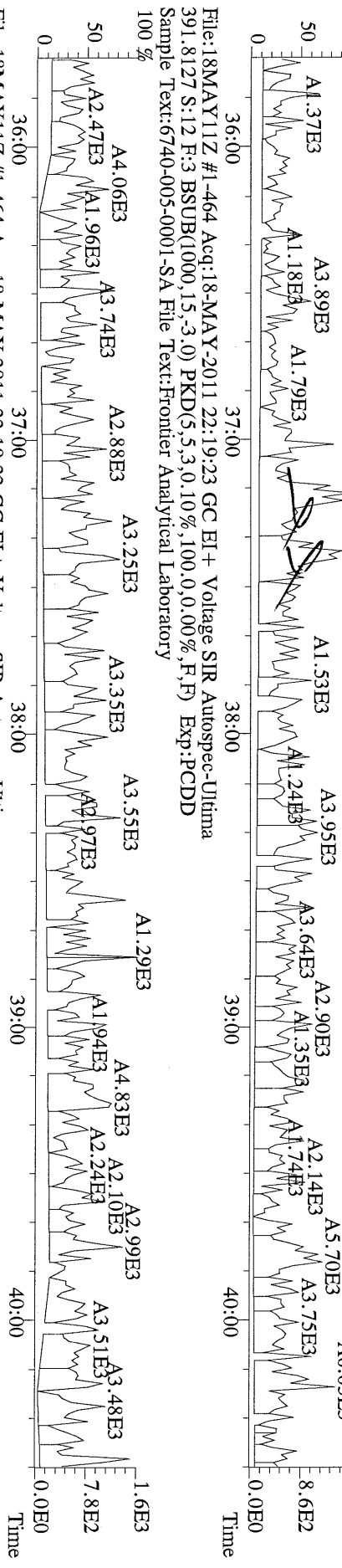


File:18MAY11Z #1-425 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
 367.8949 S:12 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
 Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory

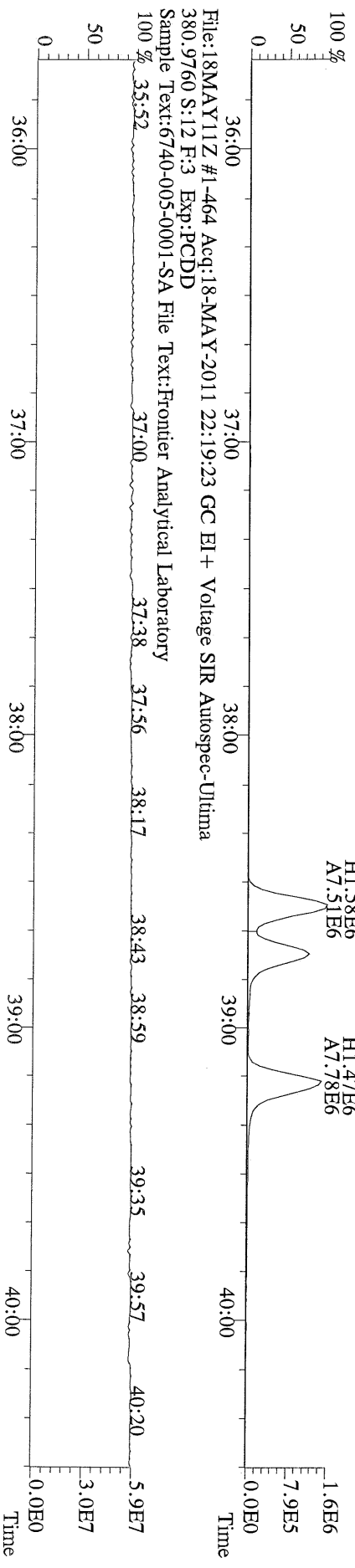


File:18MAY11Z #1-425 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
 366.9792 S:12 F:2 Exp:PCDD
 Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory

File:18MAY11Z #1-464 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:12 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory

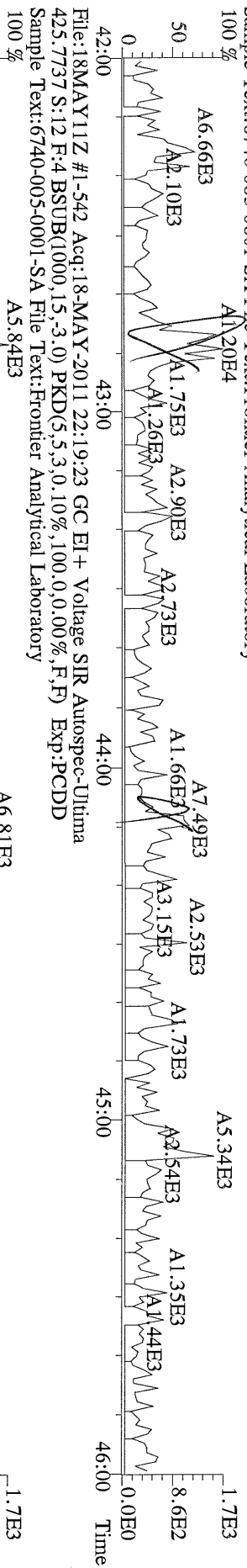


File:18MAY11Z #1-464 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:12 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory

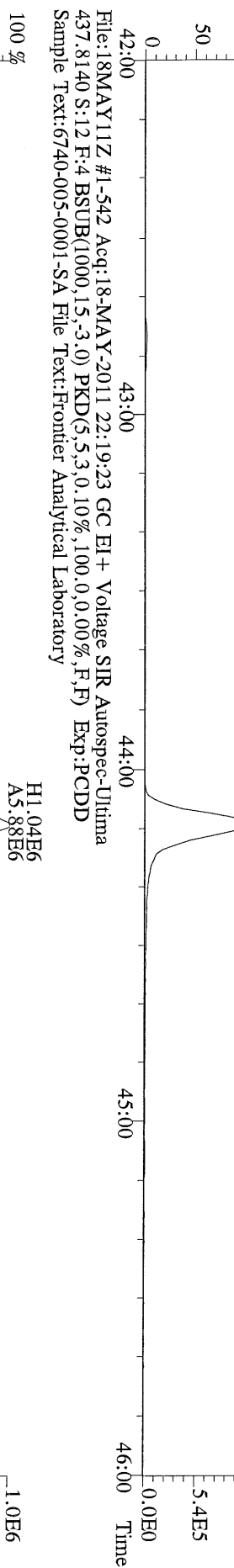


File:18MAY11Z #1-464 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:12 F:3 Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory

File:18MAY11Z #1-542 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:12 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



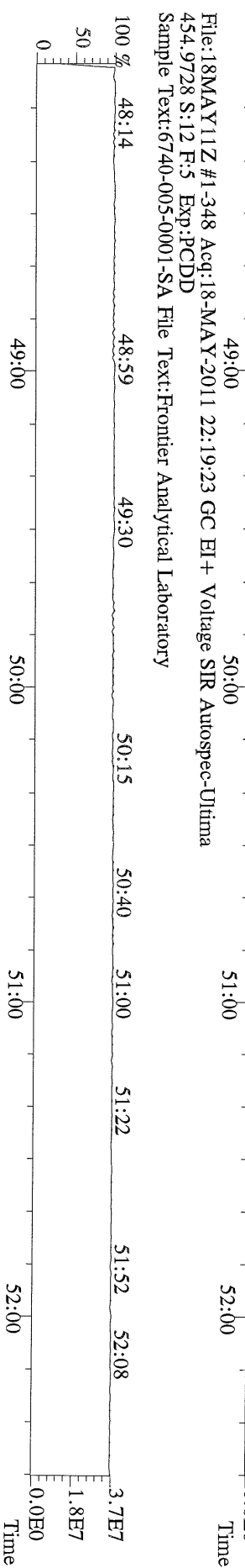
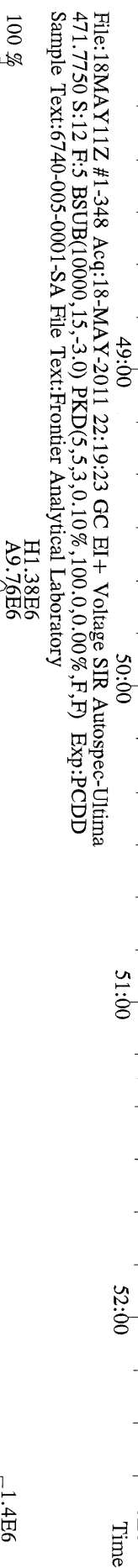
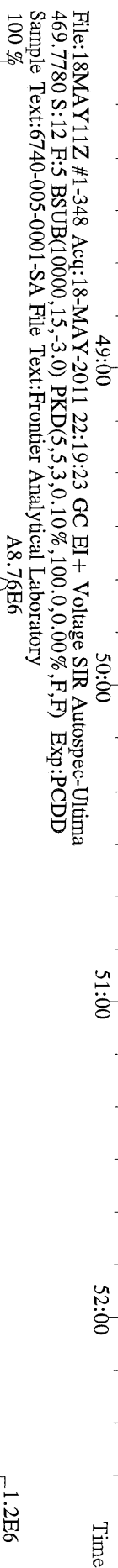
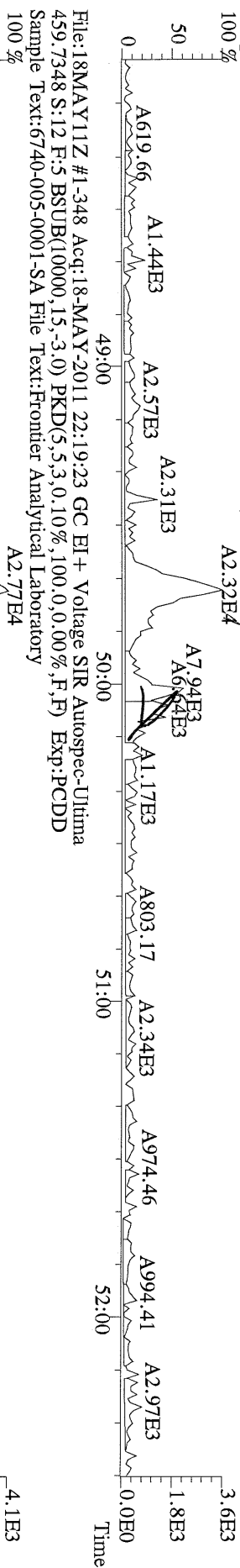
File:18MAY11Z #1-542 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:12 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



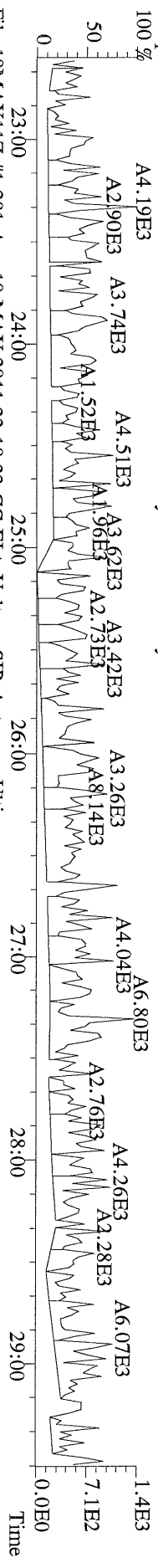
File:18MAY11Z #1-542 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:12 F:4 Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



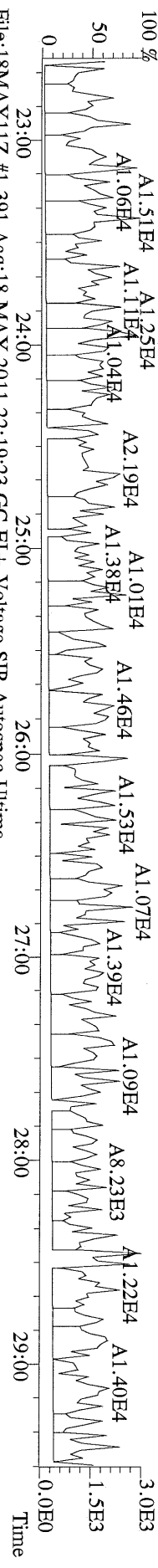
File:18MAY11Z #1-348 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



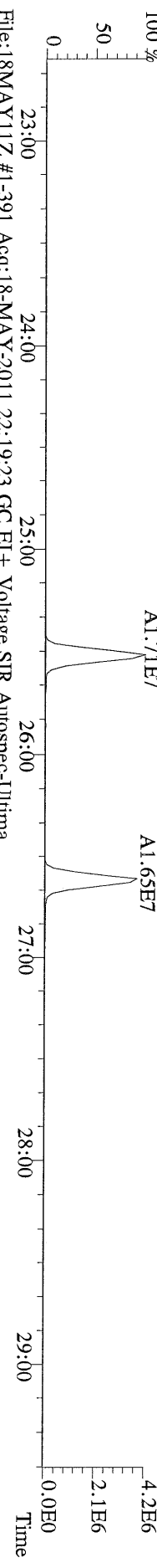
File:18MAY11Z #1-391 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:12 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



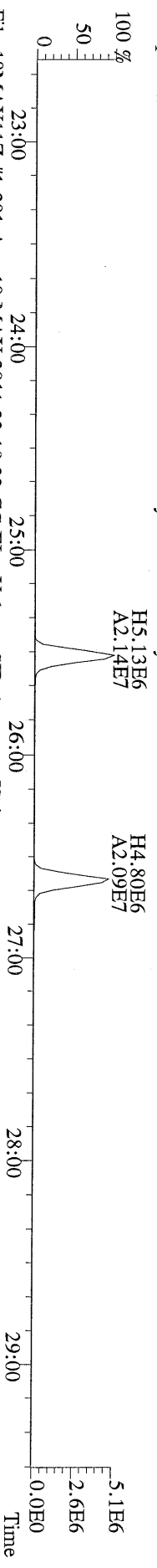
File:18MAY11Z #1-391 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:12 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



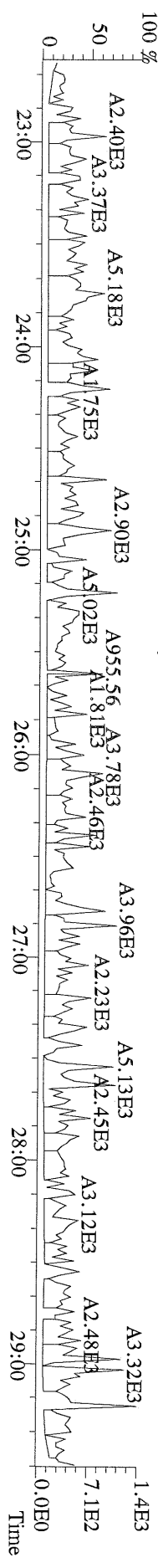
File:18MAY11Z #1-391 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:12 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



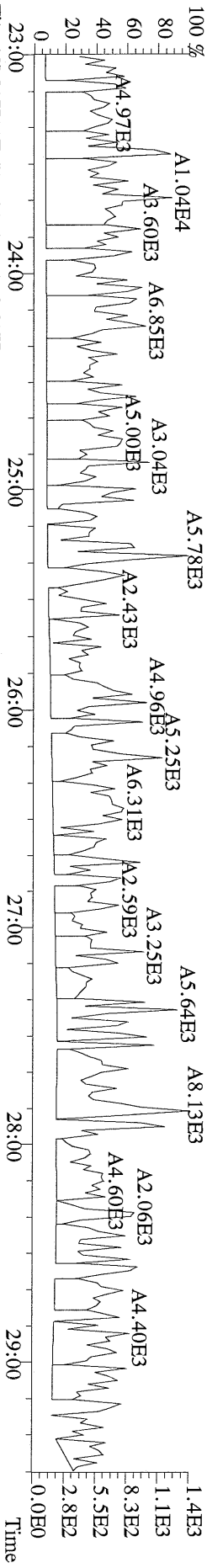
File:18MAY11Z #1-391 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:12 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



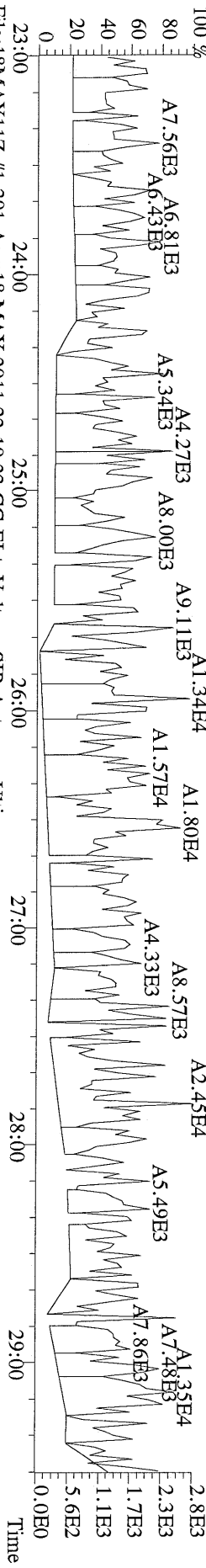
File:18MAY11Z #1-391 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:12 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



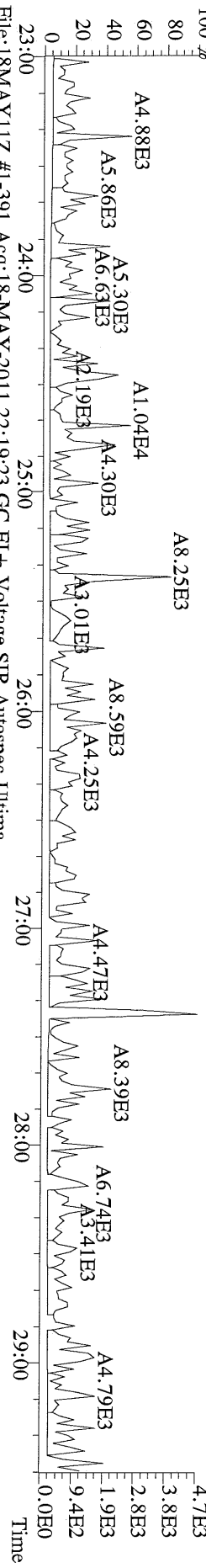
File:18MAY11Z #1-391 Acq:18-MAY-2011 22:19:23 GC EI + Voltage SIR Autospec-Ultima
 339.8597 S:12 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



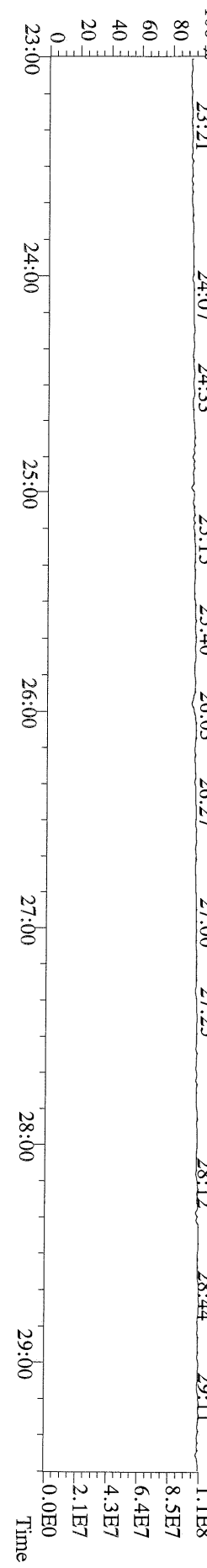
File:18MAY11Z #1-391 Acq:18-MAY-2011 22:19:23 GC EI + Voltage SIR Autospec-Ultima
 341.8568 S:12 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



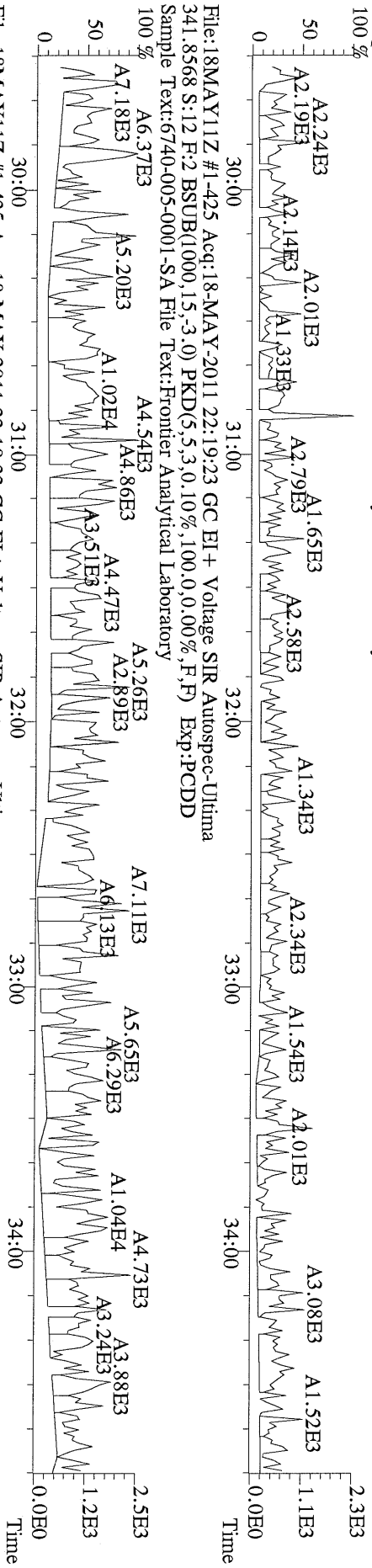
File:18MAY11Z #1-391 Acq:18-MAY-2011 22:19:23 GC EI + Voltage SIR Autospec-Ultima
 409.7974 S:12 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



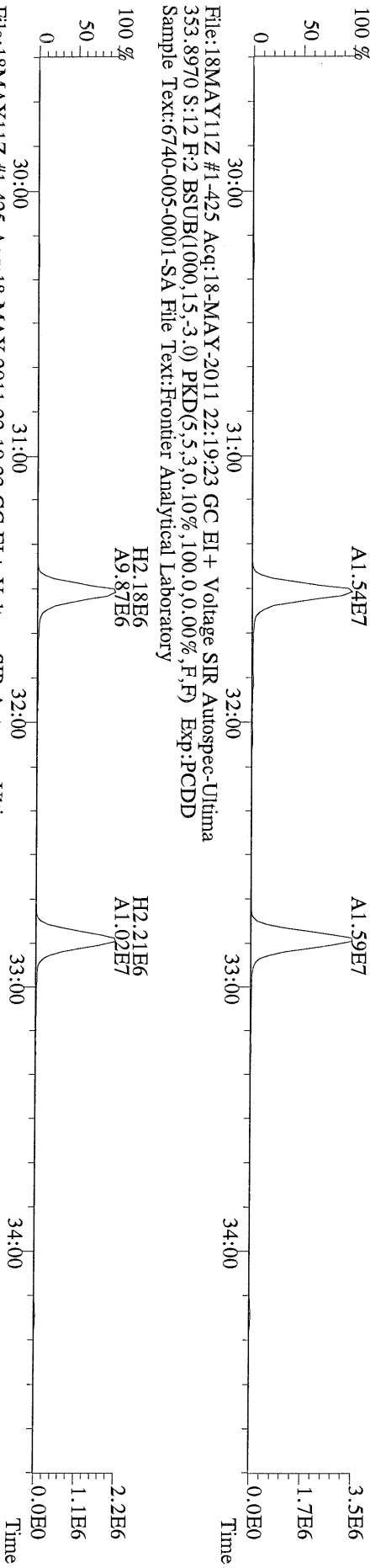
File:18MAY11Z #1-391 Acq:18-MAY-2011 22:19:23 GC EI + Voltage SIR Autospec-Ultima
 330.9792 S:12 Exp:PCDD
 Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



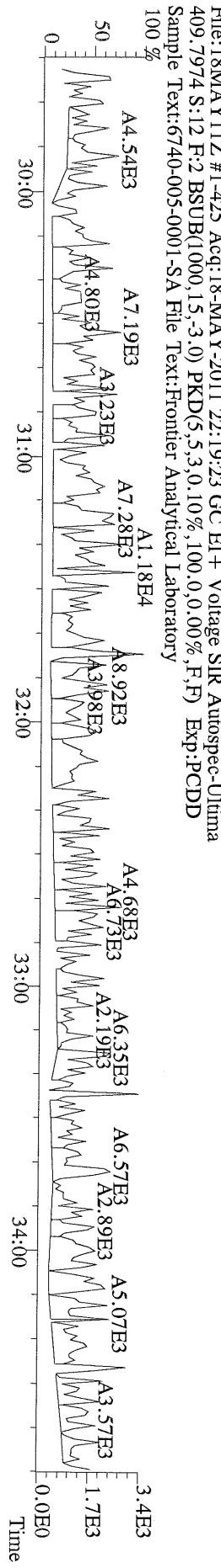
File:18MAY11Z #1-425 Acq:18-MAY-2011 22:19:23 GC EI + Voltage SIR Autospec-Ultima
339.8597 S:12 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



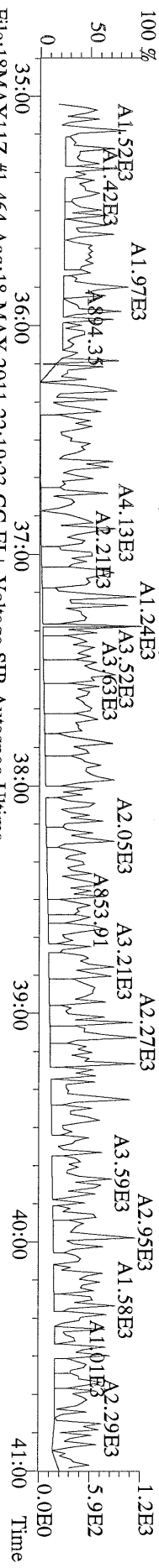
File:18MAY11Z #1-425 Acq:18-MAY-2011 22:19:23 GC EI + Voltage SIR Autospec-Ultima
351.9000 S:12 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



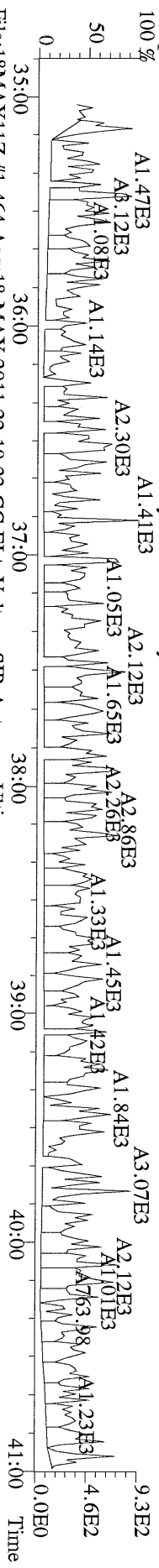
File:18MAY11Z #1-425 Acq:18-MAY-2011 22:19:23 GC EI + Voltage SIR Autospec-Ultima
409.7974 S:12 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



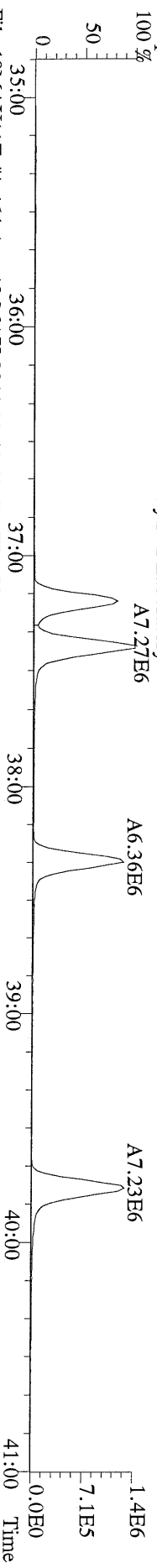
File:18MAY11Z #1-464 Acq:18-MAY-2011 22:19:23 GC EI + Voltage SIR Autospec-Ultima
373.8207 S:12 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



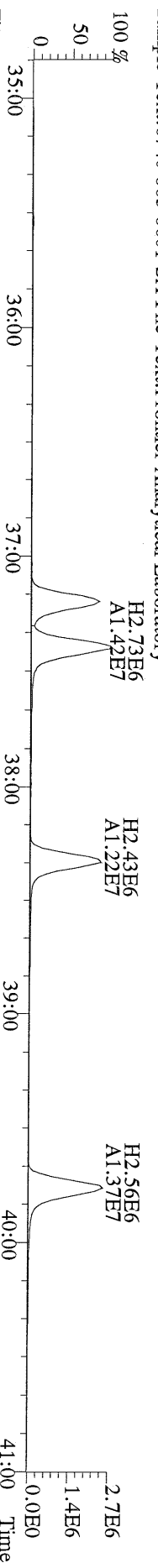
File:18MAY11Z #1-464 Acq:18-MAY-2011 22:19:23 GC EI + Voltage SIR Autospec-Ultima
375.8178 S:12 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



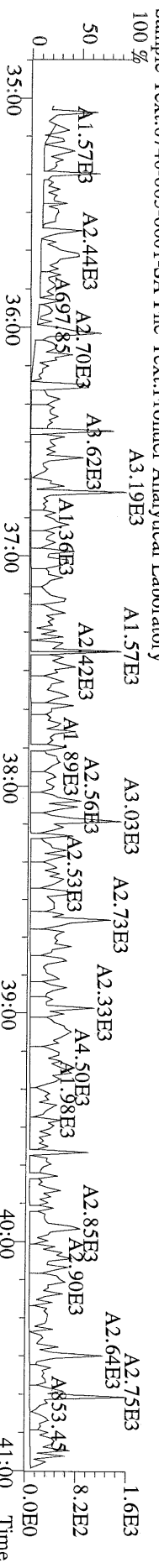
File:18MAY11Z #1-464 Acq:18-MAY-2011 22:19:23 GC EI + Voltage SIR Autospec-Ultima
383.8639 S:12 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



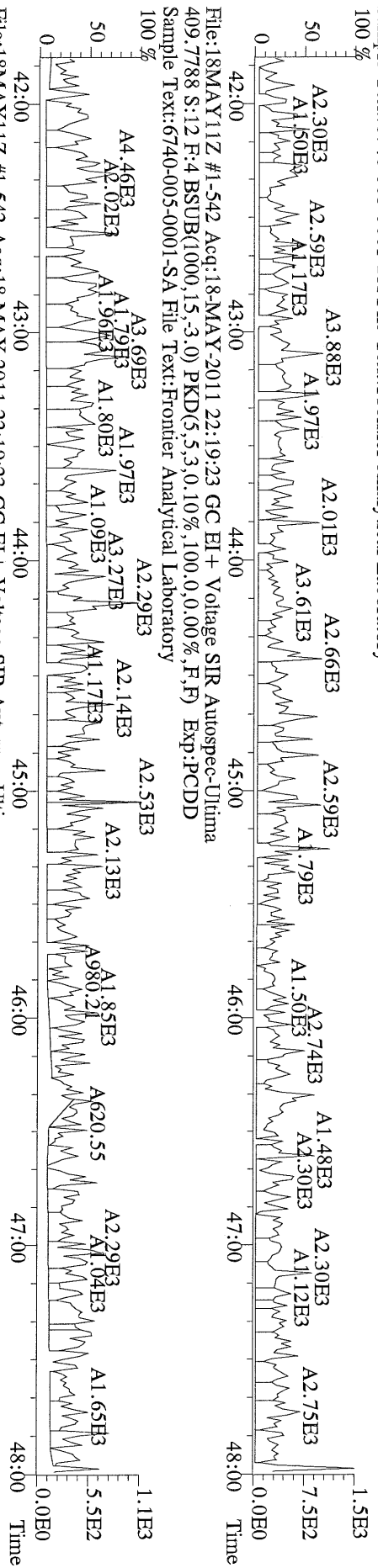
File:18MAY11Z #1-464 Acq:18-MAY-2011 22:19:23 GC EI + Voltage SIR Autospec-Ultima
385.8610 S:12 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



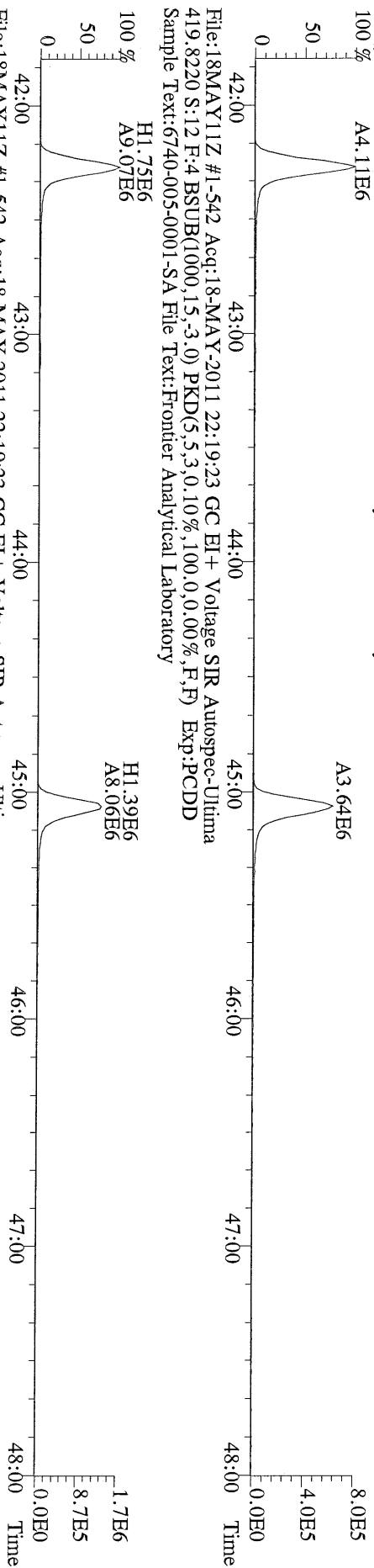
File:18MAY11Z #1-464 Acq:18-MAY-2011 22:19:23 GC EI + Voltage SIR Autospec-Ultima
445.7555 S:12 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



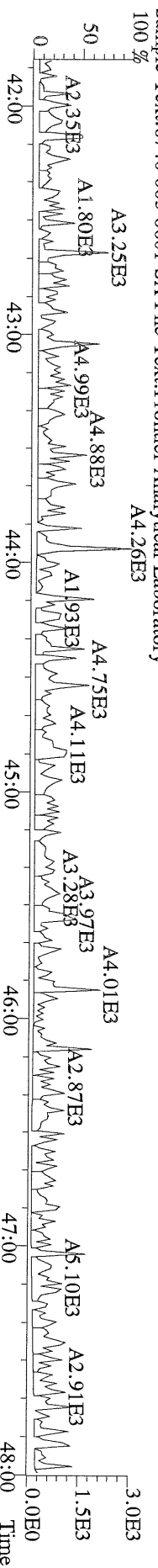
File:18MAY11Z #1-542 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:12 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



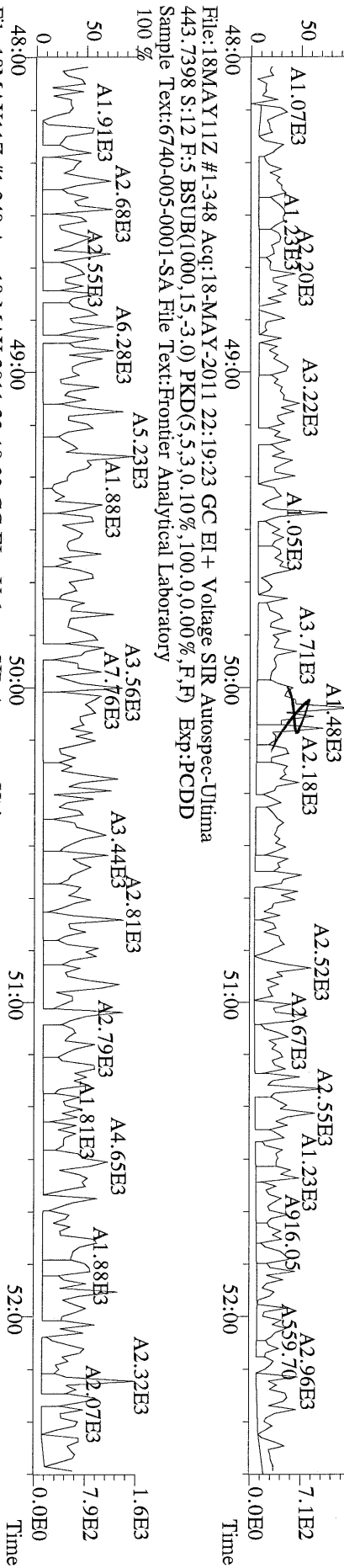
File:18MAY11Z #1-542 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:12 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



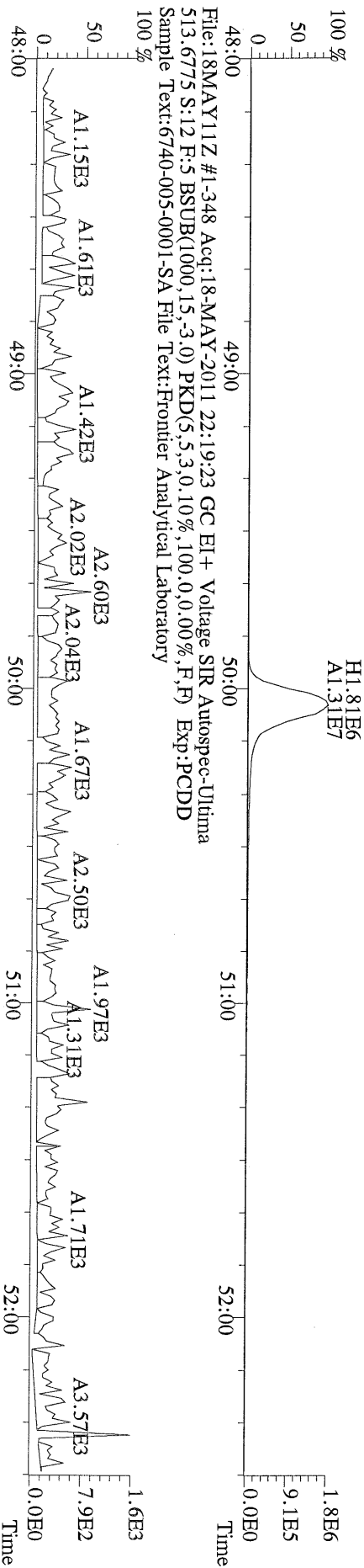
File:18MAY11Z #1-542 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:12 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:12 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:12 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 22:19:23 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:12 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-005-0001-SA File Text:Frontier Analytical Laboratory

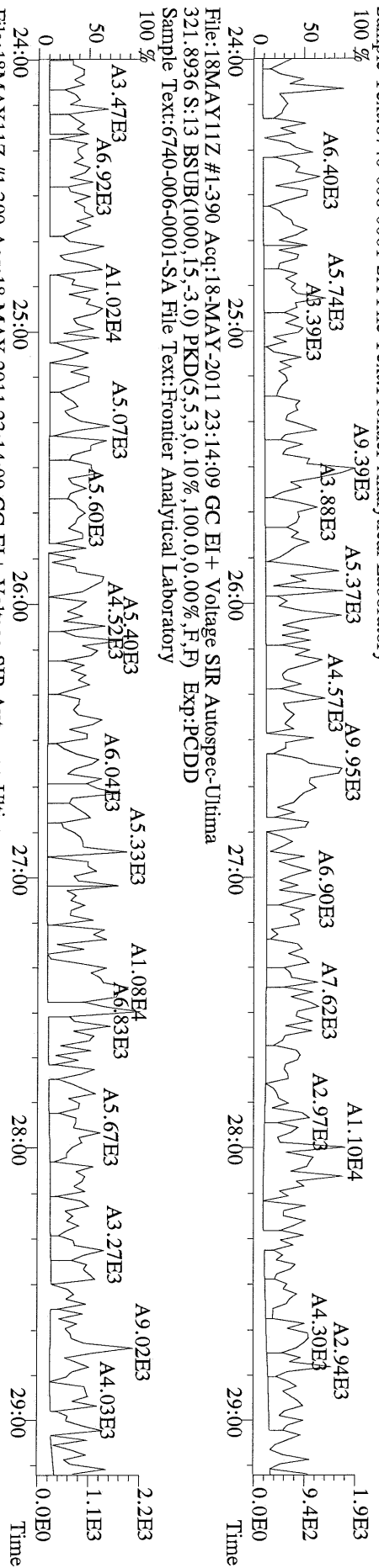
FAL ID: 6740-006-0001-SA Filename: 18MAY11Z Sam:13 Acquired: 18-MAY-11 23:14:09 ICal: PCDDFAL4-5-17-11
 Client ID: MW12-042711 ConCal: ST051811Z1 EndCal: ST051811Z2
 Results: 6739 GC Column: DB5 Amount: 1.032 NATO 1989 Tox: 0.00 WHO 1998 Tox: 0.00 WHO 2005 Tox: 0.00

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL		
2,3,7,8-TCDD	*	* n	NotFnd	1.15	*		2.50	663	655	1.01	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	780	380	1.44	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.09	*		2.50	584	724	1.79	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.08	*		2.50	584	724	2.27	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.12	*		2.50	584	724	1.95	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.03	*		2.50	448	462	2.15	
OCDD	*	* n	NotFnd	1.21	*		2.50	688	841	4.95	
2,3,7,8-TCDF	*	* n	NotFnd	1.09	*		2.50	558	1070	0.875	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	390	936	1.32	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	390	936	1.29	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.18	*		2.50	552	428	1.17	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.03	*		2.50	552	428	1.18	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.17	*		2.50	552	428	1.21	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.27	*		2.50	552	428	1.05	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.36	*		2.50	388	484	1.37	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.35	*		2.50	388	484	1.68	
OCDF	*	* n	NotFnd	0.97	*		2.50	387	560	2.83	
										Rec	
13C-2,3,7,8-TCDD	2.49e+07	0.80 y	27:23	0.99	1810					93.2	
13C-1,2,3,7,8-PeCDD	1.80e+07	1.60 y	33:14	0.79	1630					84.1	
13C-1,2,3,4,7,8-HxCDD	1.56e+07	1.27 y	38:35	1.03	1740					89.8	
13C-1,2,3,6,7,8-HxCDD	1.32e+07	1.25 y	38:45	0.96	1590					82.2	
13C-1,2,3,4,6,7,8-HpCDD	1.13e+07	1.04 y	44:09	0.75	1740					89.7	
13C-OCDD	1.72e+07	0.89 y	49:41	0.50	3940					102	
13C-2,3,7,8-TCDF	3.46e+07	0.79 y	26:37	0.98	1890					97.3	
13C-1,2,3,7,8-PeCDF	2.35e+07	1.59 y	31:31	0.78	1620					83.5	
13C-2,3,4,7,8-PeCDF	2.39e+07	1.58 y	32:49	0.75	1690					87.4	
13C-1,2,3,4,7,8-HxCDF	1.60e+07	0.52 y	37:12	1.05	1750					90.3	
13C-1,2,3,6,7,8-HxCDF	1.97e+07	0.52 y	37:24	1.40	1620					83.4	
13C-2,3,4,6,7,8-HxCDF	1.70e+07	0.51 y	38:19	1.16	1690					87.3	
13C-1,2,3,7,8,9-HxCDF	1.91e+07	0.52 y	39:46	1.30	1700					87.5	
13C-1,2,3,4,6,7,8-HpCDF	1.21e+07	0.44 y	42:16	0.83	1690					87.3	
13C-1,2,3,4,7,8,9-HpCDF	1.05e+07	0.46 y	45:04	0.69	1750					90.2	
13C-OCDF	2.31e+07	0.90 y	50:03	0.77	3450					89.1	
37Cl-2,3,7,8-TCDD	7.38e+06		27:24	0.71	746					96.2	
13C-1,2,3,4-TCDD	2.70e+07	0.80 y	26:49	-	49.0						
13C-1,2,3,4-TCDF	3.63e+07	0.79 y	25:32	-	47.0						
13C-1,2,3,7,8,9-HxCDD	1.69e+07	1.24 y	39:11	-	42.2						
Total Tetra-Dioxins	*		NotFnd	1.15	*		2.50	663	655	1.01	0
Total Penta-Dioxins	*		NotFnd	1.02	*		2.50	780	380	1.44	0
Total Hexa-Dioxins	*		NotFnd	1.10	*		2.50	584	724	2.27	0
Total Hepta-Dioxins	*		NotFnd	1.03	*		2.50	448	462	2.15	0
Total Tetra-Furans	*		NotFnd	1.09	*		2.50	558	1070	0.875	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.96	*		2.50	390	936	1.32 PeCDF	0
Total Penta-Furans	*		NotFnd	0.96	*		2.50	390	936	1.32 0.00	0
Total Hexa-Furans	*		NotFnd	1.16	*		2.50	552	428	1.21	0
Total Hepta-Furans	*		NotFnd	1.36	*		2.50	388	484	1.68	0

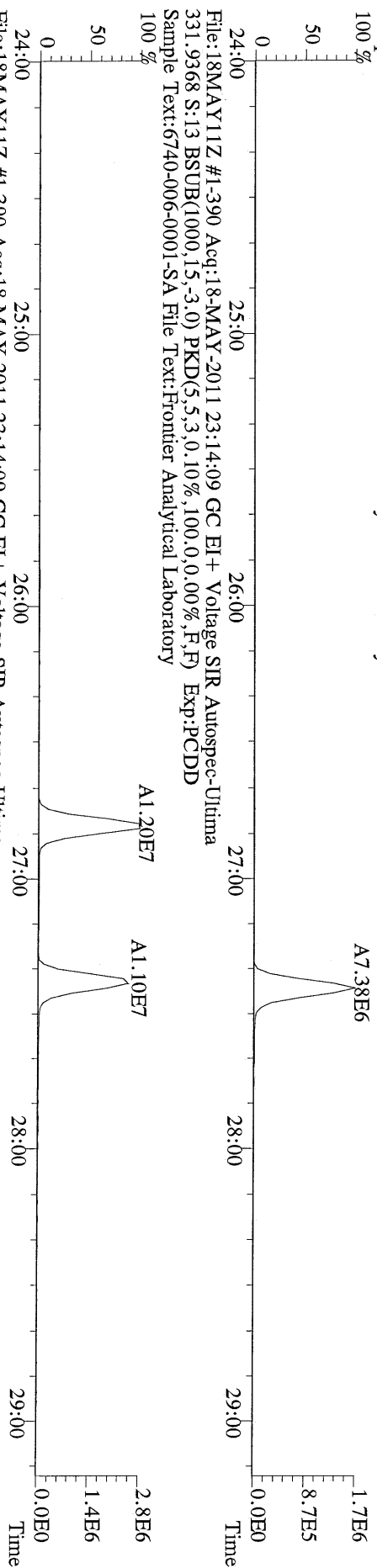
Analyst:

Date: 5/19/11

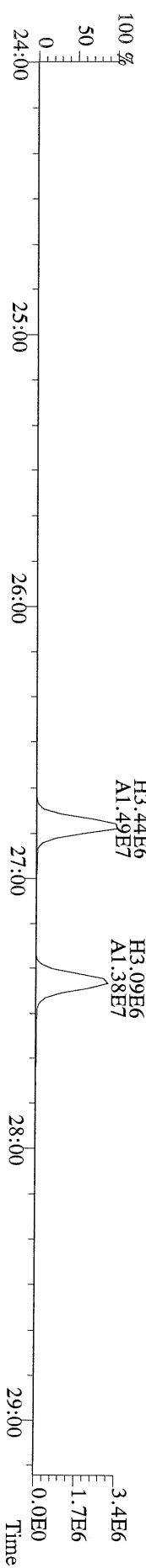
File:18MAY11Z #1-390 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Ultima
 319.8965 S:13 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



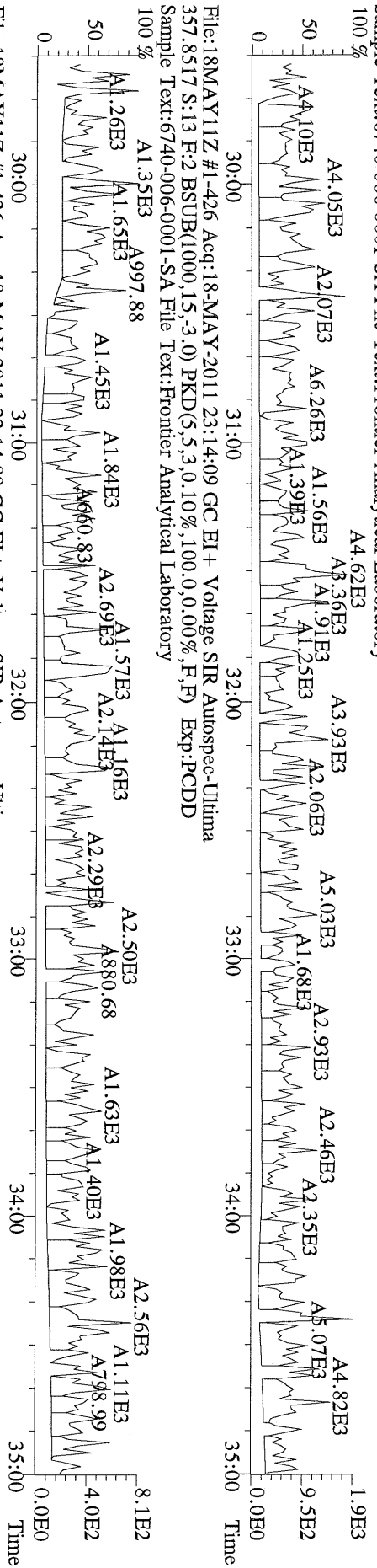
File:18MAY11Z #1-390 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Ultima
 327.8847 S:13 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



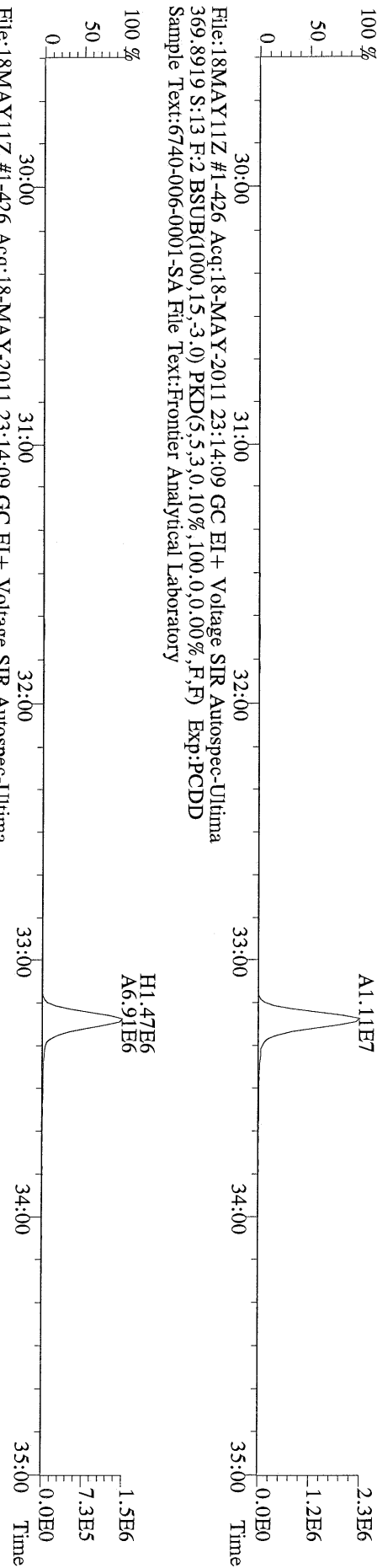
File:18MAY11Z #1-390 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Ultima
 333.9339 S:13 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



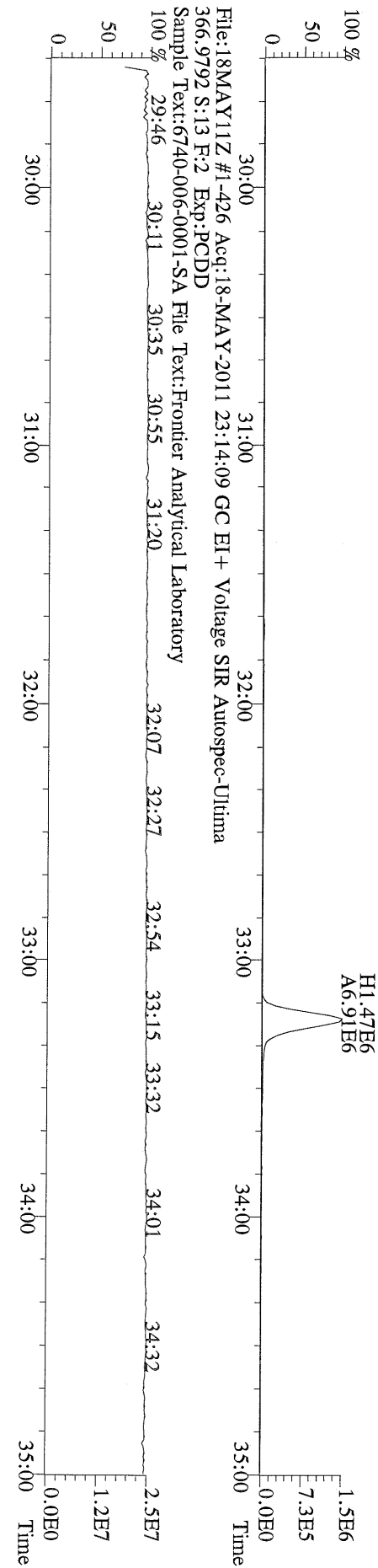
File:18MAY11Z #1-426 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Ultima
355.8546 S:13 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-426 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Ultima
367.8949 S:13 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory

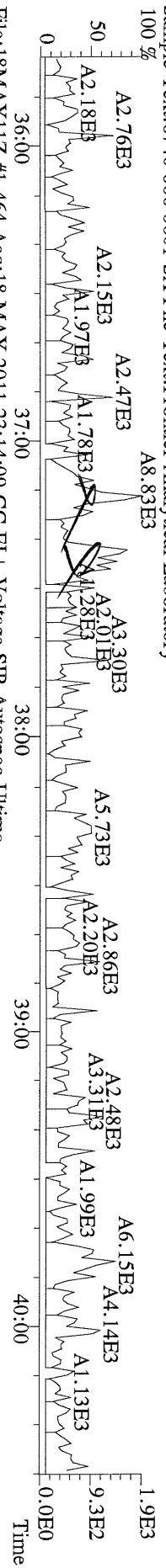


File:18MAY11Z #1-426 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Ultima
369.8919 S:13 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory

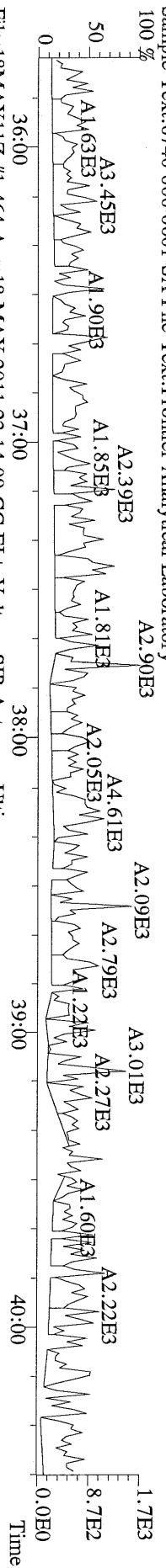


File:18MAY11Z #1-426 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Ultima
366.9792 S:13 F:2 Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory

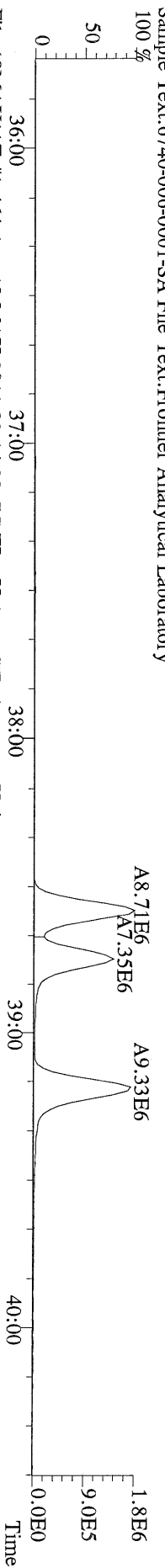
File:18MAY11Z #1-464 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:13 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



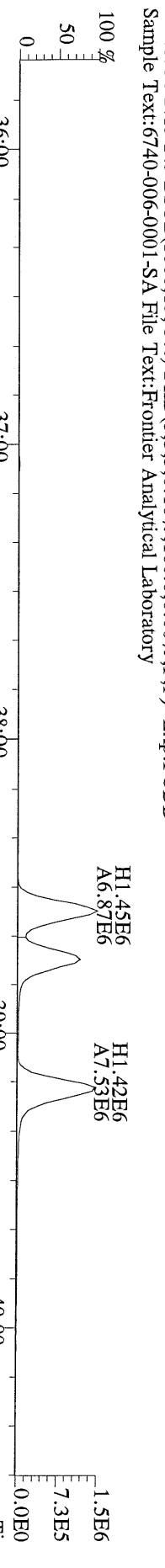
File:18MAY11Z #1-464 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:13 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



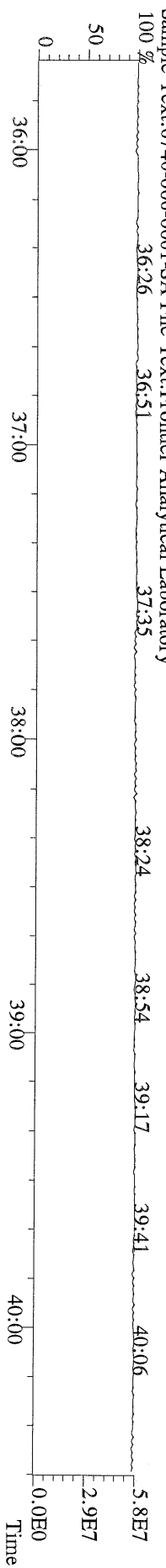
File:18MAY11Z #1-464 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:13 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



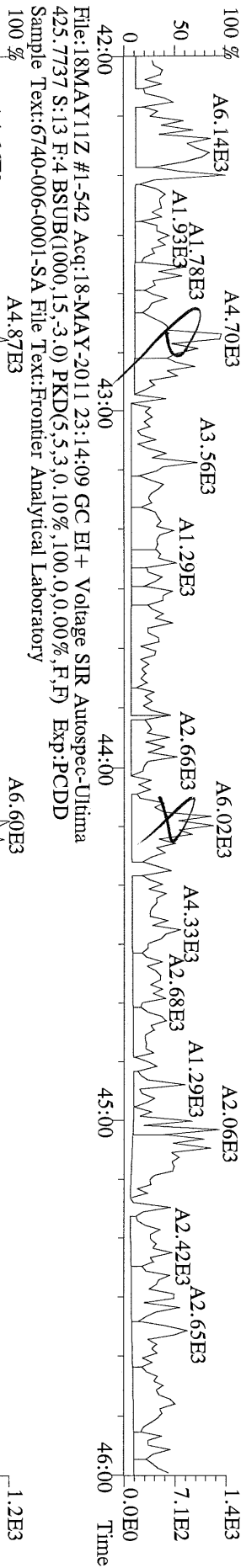
File:18MAY11Z #1-464 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:13 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



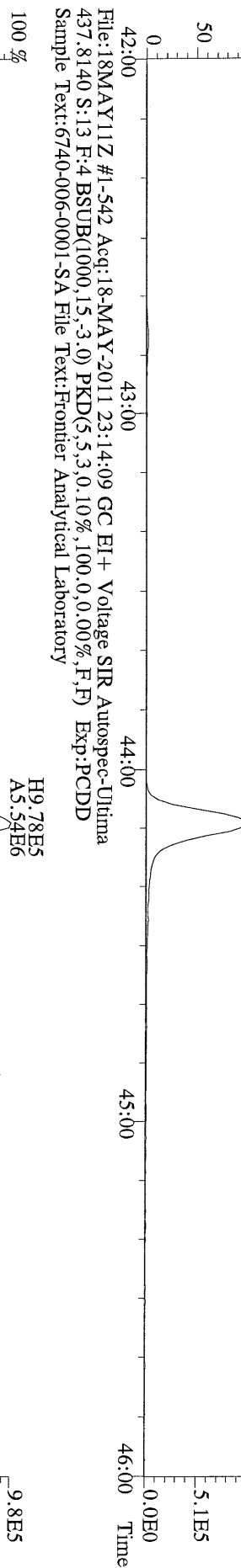
File:18MAY11Z #1-464 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:13 F:3 Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



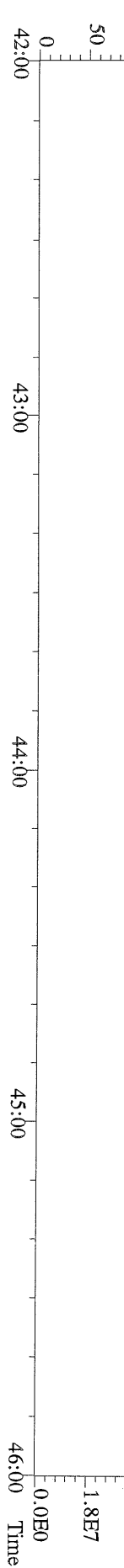
File:18MAY11Z #1-542 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:13 F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



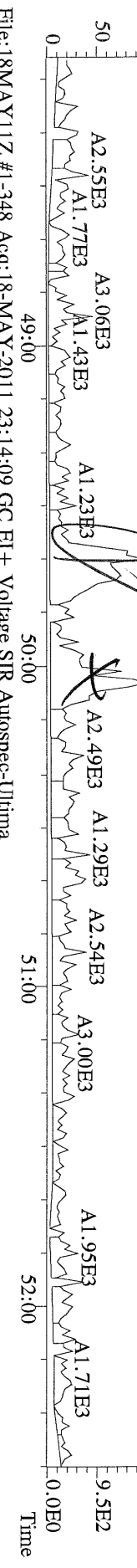
File:18MAY11Z #1-542 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:13 F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



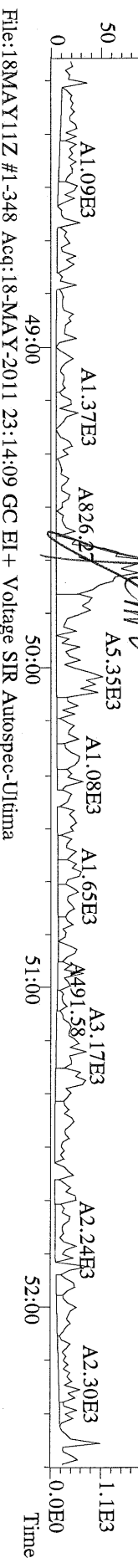
File:18MAY11Z #1-542 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:13 F:4 Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



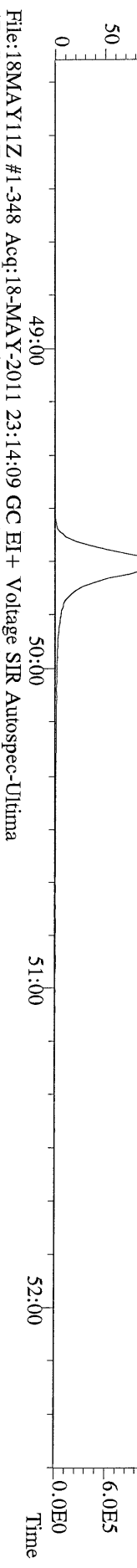
File:18MAY11Z #1-348 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:13 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



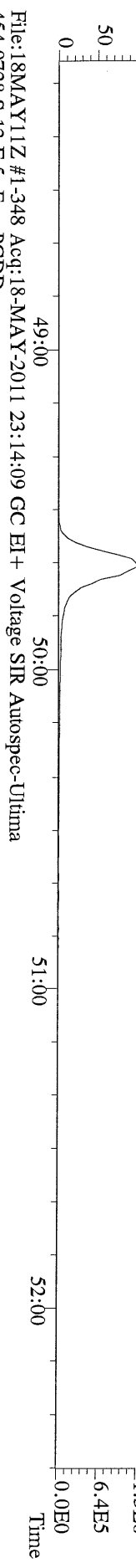
File:18MAY11Z #1-348 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
 459.7348 S:13 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



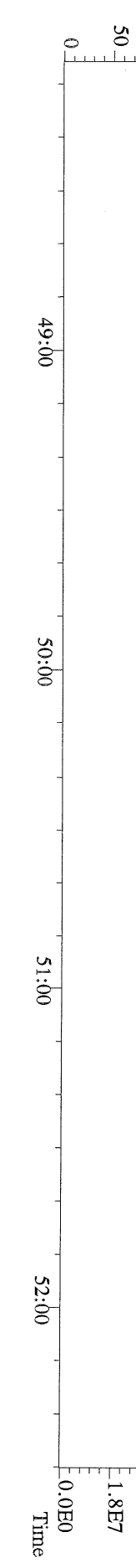
File:18MAY11Z #1-348 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
 469.7780 S:13 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



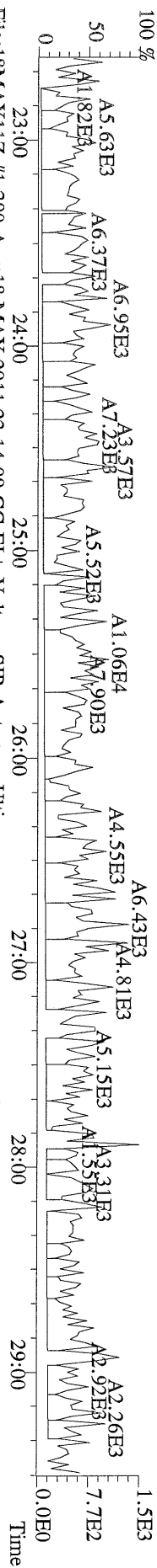
File:18MAY11Z #1-348 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
 471.7750 S:13 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



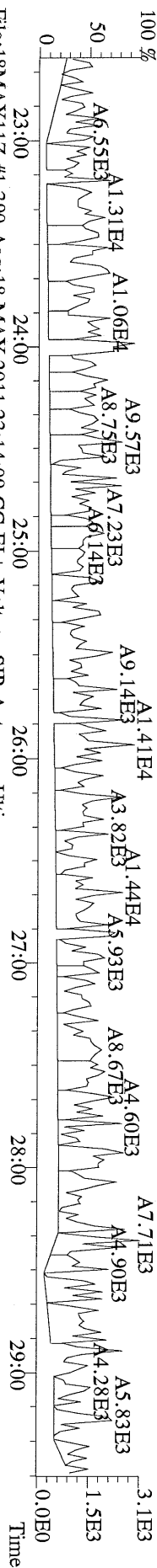
File:18MAY11Z #1-348 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
 454.9728 S:13 F:5 Exp:PCDD
 Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



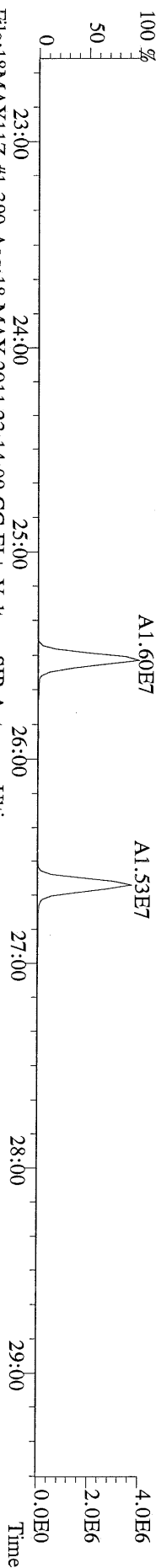
File:18MAY11Z #1-390 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Utima
303.9016 S:13 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



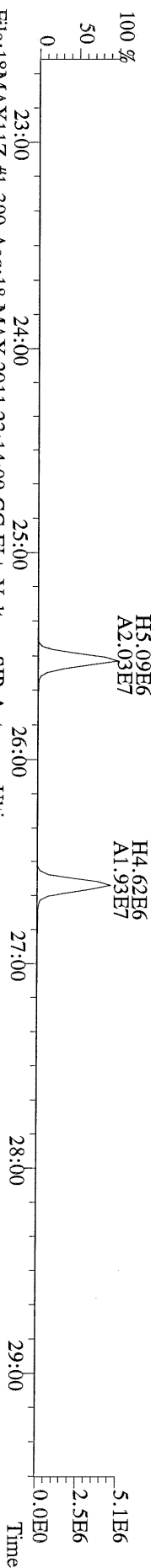
File:18MAY11Z #1-390 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Utima
305.8987 S:13 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



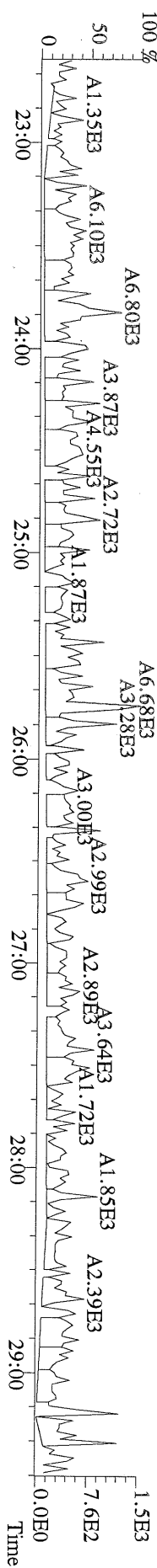
File:18MAY11Z #1-390 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Utima
315.9419 S:13 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



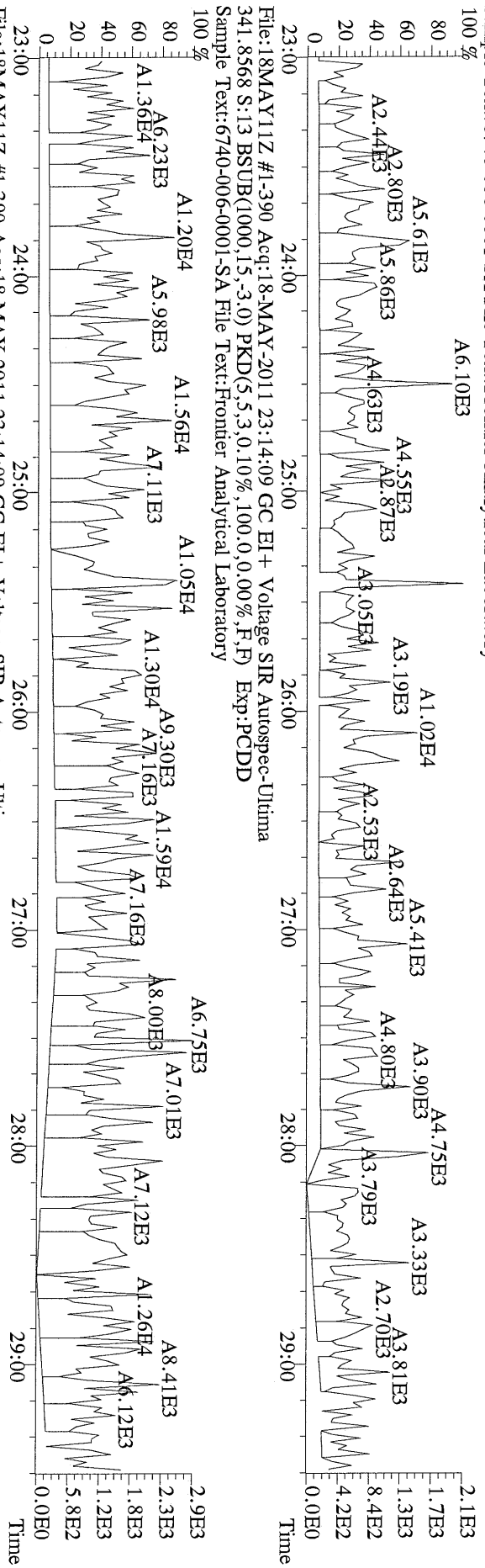
File:18MAY11Z #1-390 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Utima
317.9389 S:13 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



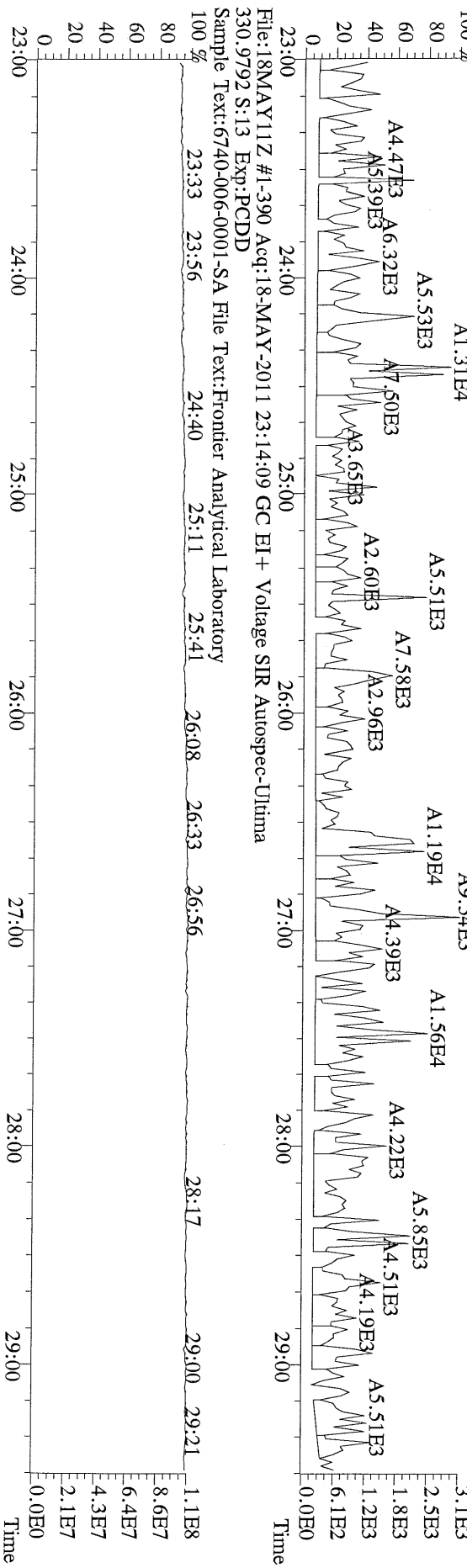
File:18MAY11Z #1-390 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Utima
375.8364 S:13 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



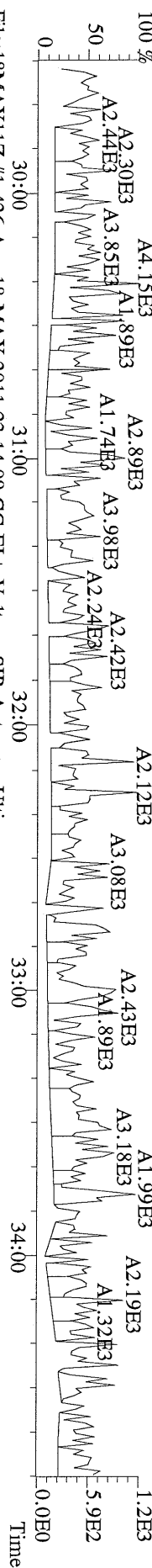
File:18MAY11Z #1-390 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:13 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



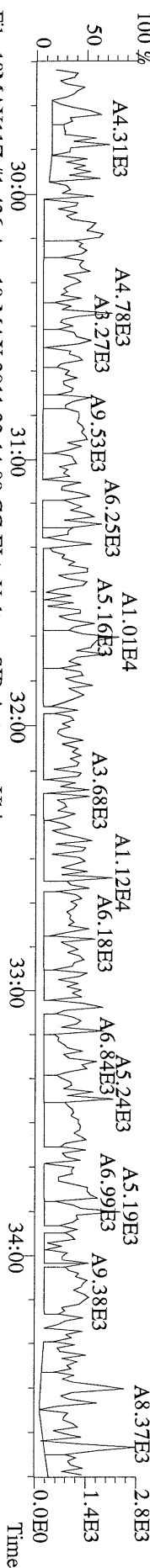
File:18MAY11Z #1-390 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:13 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



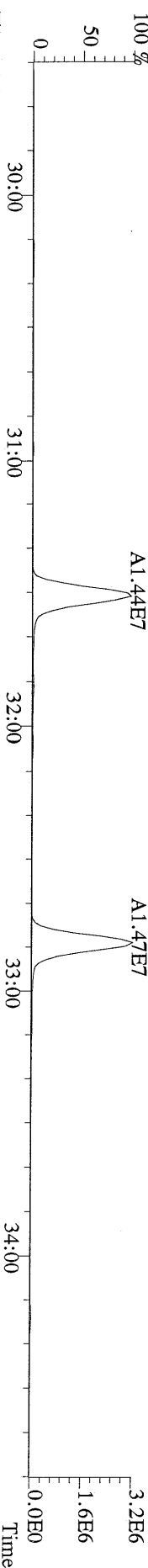
File:18MAY11Z #1-426 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Ultima
339.8597 S:13 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



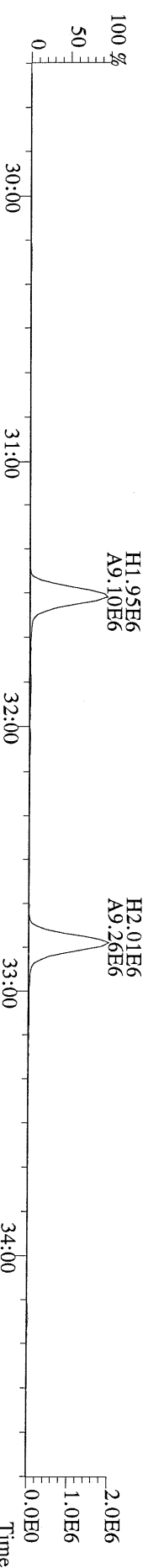
File:18MAY11Z #1-426 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Ultima
341.8568 S:13 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



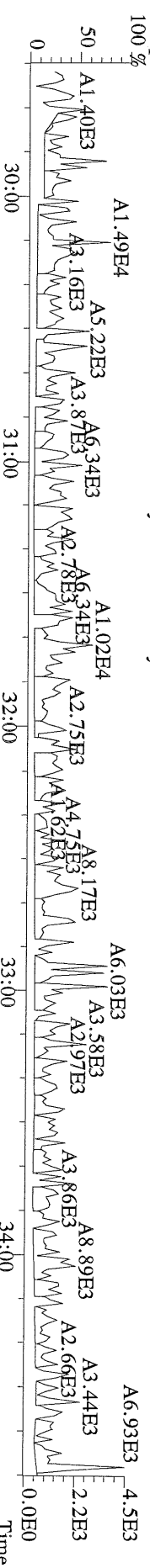
File:18MAY11Z #1-426 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Ultima
351.9000 S:13 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory

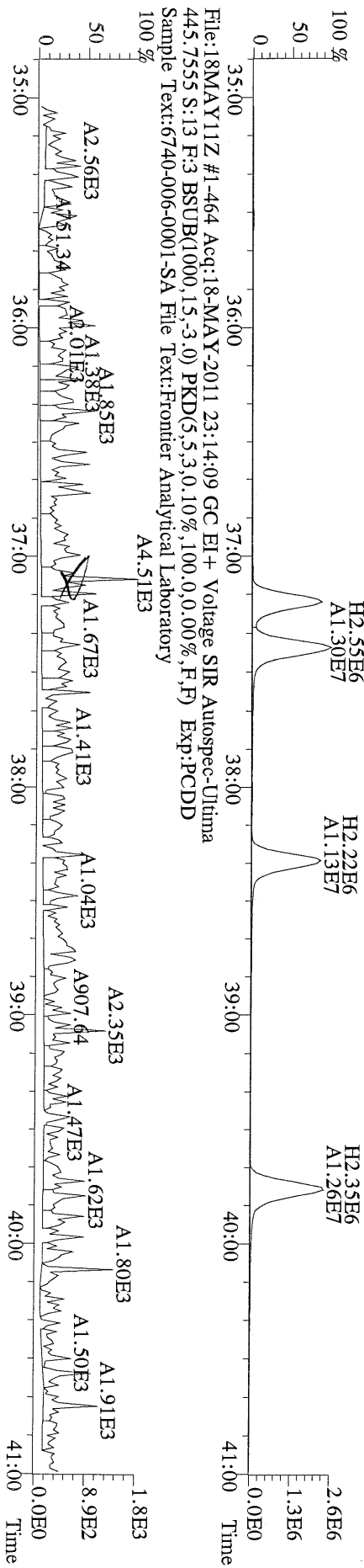
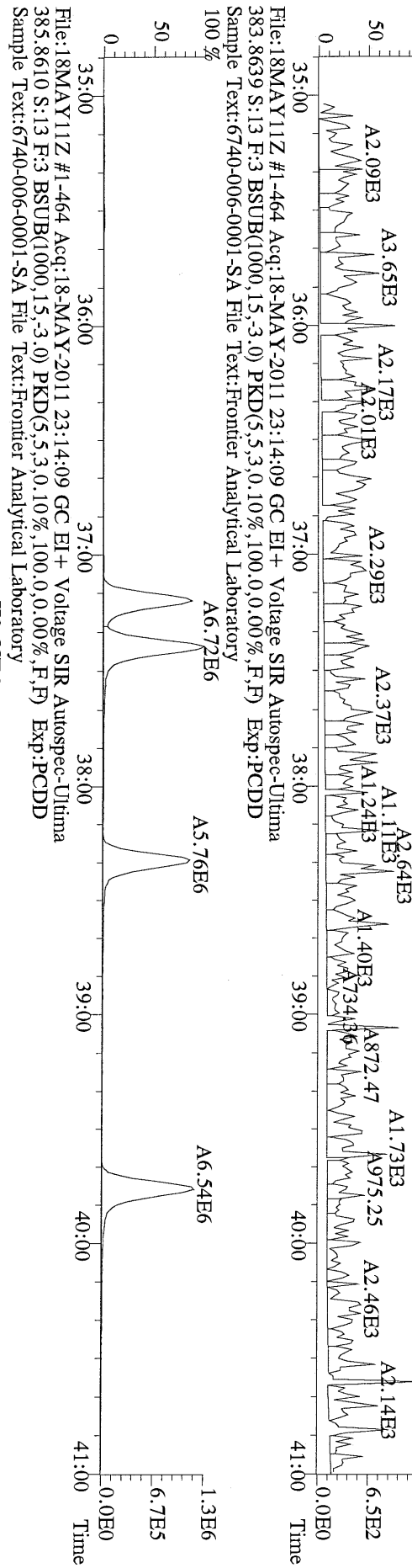
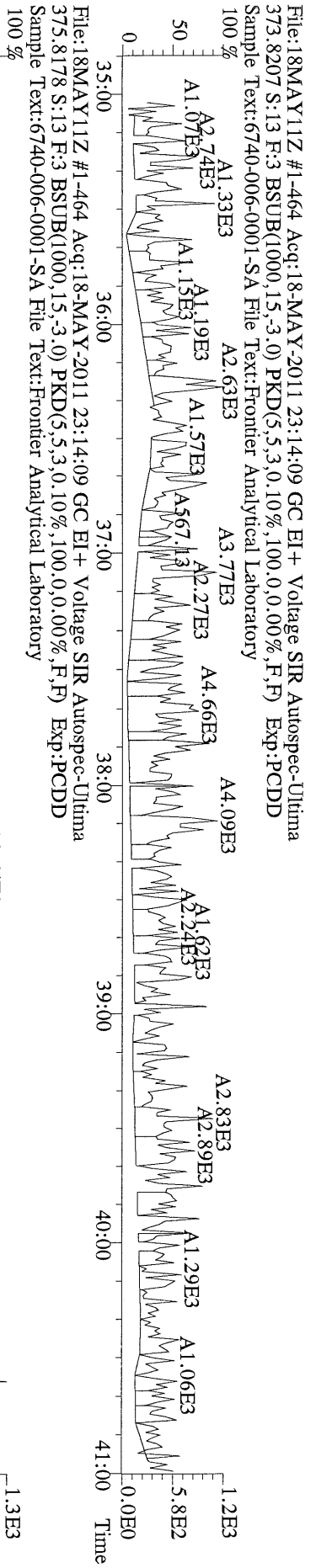


File:18MAY11Z #1-426 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Ultima
353.8970 S:13 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory

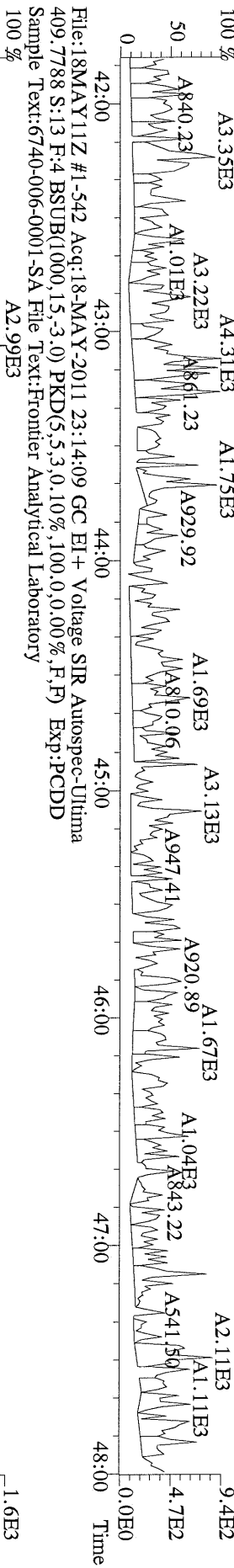


File:18MAY11Z #1-426 Acq:18-MAY-2011 23:14:09 GC EI + Voltage SIR Autospec-Ultima
409.7974 S:13 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory

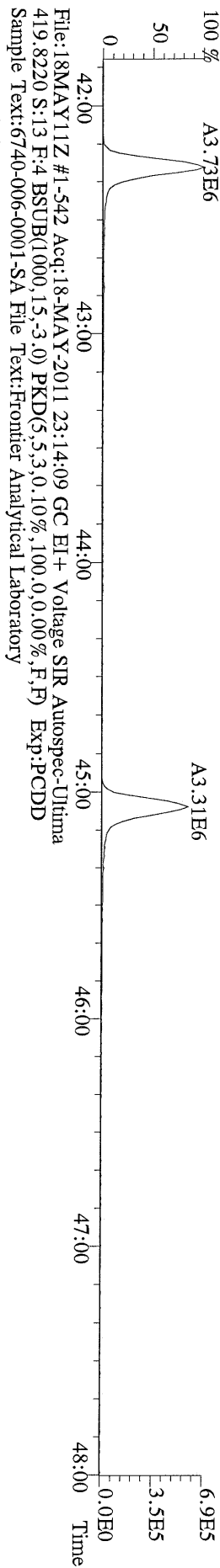




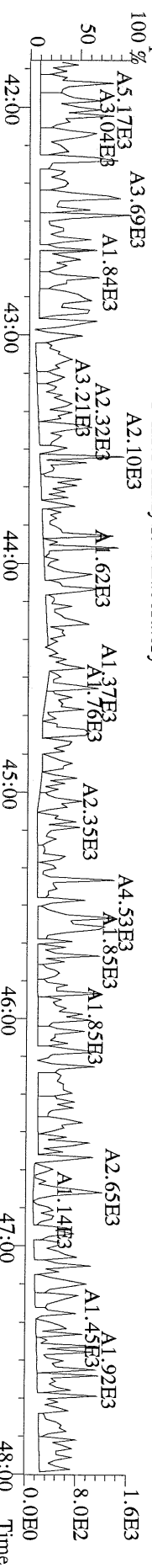
File:18MAYY11Z #1-542 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:13 F:4 BSUB(1000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



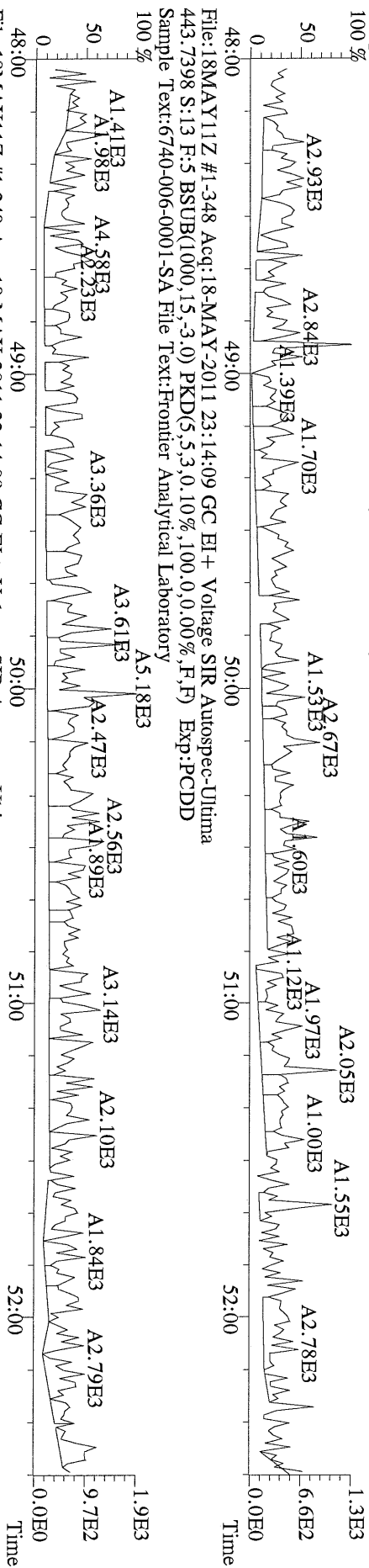
File:18MAYY11Z #1-542 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:13 F:4 BSUB(1000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



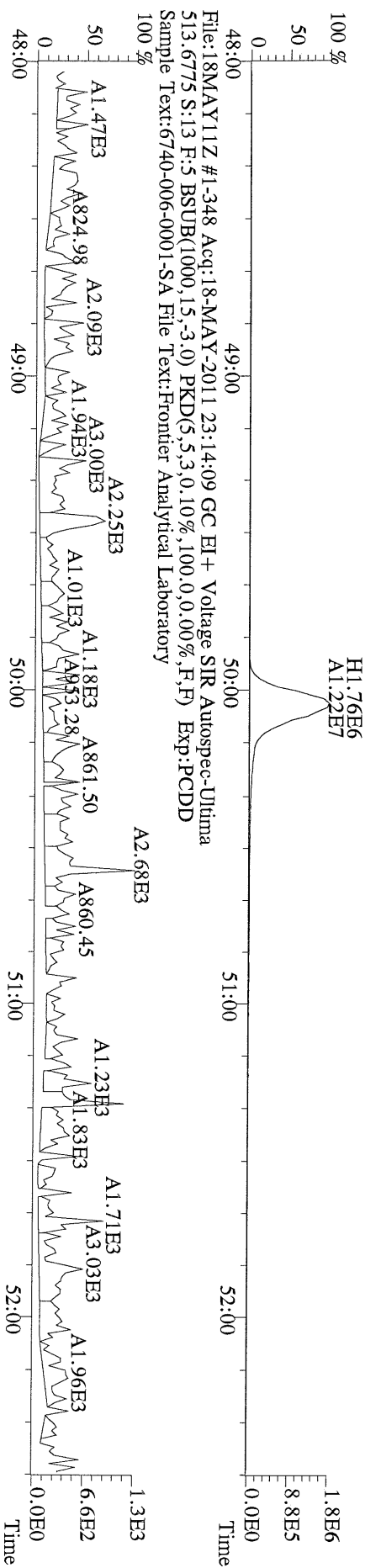
File:18MAYY11Z #1-542 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:13 F:4 BSUB(1000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:13 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 23:14:09 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:13 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-006-0001-SA File Text:Frontier Analytical Laboratory



Analyte:

Cal: PCDDFAL4-5-17-11

Name	RRF	S. D.	%RSD	S2 RRF#1	S3 RRF#2	S4 RRF#3	S1 RRF#4	S5 RRF#5	S6 RRF#6
2,3,7,8-TCDD	1.15	0.0659	5.74 %	1.21	1.20	1.10	1.21	1.08	1.08
1,2,3,7,8-PeCDD	1.02	0.0164	1.60 %	1.01	1.03	1.00	1.02	1.04	1.04
1,2,3,4,7,8-HxCDD	1.09	0.0237	2.18 %	1.09	1.11	1.06	1.06	1.11	1.10
1,2,3,6,7,8-HxCDD	1.08	0.0166	1.53 %	1.05	1.08	1.10	1.10	1.09	1.08
1,2,3,7,8,9-HxCDD	1.12	0.0375	3.35 %	1.05	1.10	1.13	1.13	1.14	1.15
1,2,3,4,6,7,8-HpCDD	1.03	0.0291	2.82 %	0.99	1.05	1.01	1.02	1.06	1.06
OCDD	1.21	0.0320	2.65 %	1.18	1.20	1.16	1.21	1.26	1.22
2,3,7,8-TCDF	1.09	0.0520	4.79 %	1.13	1.17	1.04	1.07	1.05	1.06
1,2,3,7,8-PeCDF	0.96	0.0135	1.40 %	0.97	0.95	0.94	0.98	0.97	0.96
2,3,4,7,8-PeCDF	0.96	0.00373	0.388 %	0.96	0.96	0.96	0.95	0.96	0.96
1,2,3,4,7,8-HxCDF	1.18	0.0220	1.86 %	1.22	1.16	1.17	1.17	1.20	1.18
1,2,3,6,7,8-HxCDF	1.03	0.0237	2.30 %	1.00	1.02	1.02	1.05	1.06	1.05
2,3,4,6,7,8-HxCDF	1.17	0.0380	3.26 %	1.13	1.11	1.18	1.17	1.21	1.19
1,2,3,7,8,9-HxCDF	1.27	0.0486	3.81 %	1.21	1.24	1.25	1.29	1.34	1.32
1,2,3,4,6,7,8-HpCDF	1.36	0.0259	1.90 %	1.34	1.34	1.36	1.35	1.40	1.39
1,2,3,4,7,8,9-HpCDF	1.35	0.0288	2.14 %	1.33	1.35	1.31	1.33	1.39	1.36
OCDF	0.97	0.0249	2.58 %	0.97	0.92	0.97	0.97	0.99	0.99
13C-2,3,7,8-TCDD	0.99	0.0257	2.60 %	0.98	1.00	1.01	1.02	0.97	0.95
13C-1,2,3,7,8-PeCDD	0.79	0.0351	4.42 %	0.81	0.77	0.79	0.85	0.77	0.76
13C-1,2,3,4,7,8-HxCDD	1.03	0.0158	1.53 %	1.03	1.02	1.04	1.05	1.03	1.01
13C-1,2,3,6,7,8-HxCDD	0.96	0.0484	5.06 %	0.99	0.99	0.95	1.00	0.94	0.87
13C-1,2,3,4,6,7,8-HpCDD	0.75	0.0266	3.56 %	0.74	0.76	0.75	0.79	0.74	0.71
13C-OCDD	0.50	0.0192	3.82 %	0.50	0.47	0.51	0.53	0.52	0.49
13C-2,3,7,8-TCDF	0.98	0.0329	3.36 %	0.98	0.99	1.01	1.02	0.95	0.93
13C-1,2,3,7,8-PeCDF	0.78	0.0276	3.56 %	0.80	0.76	0.77	0.82	0.76	0.75
13C-2,3,4,7,8-PeCDF	0.75	0.0267	3.55 %	0.78	0.74	0.74	0.79	0.73	0.73
13C-1,2,3,4,7,8-HxCDF	1.05	0.0449	4.27 %	1.09	1.05	1.06	1.10	1.04	0.97
13C-1,2,3,6,7,8-HxCDF	1.40	0.0992	7.09 %	1.49	1.41	1.39	1.50	1.37	1.23
13C-2,3,4,6,7,8-HxCDF	1.16	0.0779	6.73 %	1.24	1.20	1.15	1.20	1.13	1.02
13C-1,2,3,7,8,9-HxCDF	1.30	0.0266	2.05 %	1.30	1.31	1.30	1.33	1.28	1.25
13C-1,2,3,4,6,7,8-HpCDF	0.83	0.0474	5.74 %	0.82	0.87	0.80	0.89	0.79	0.78
13C-1,2,3,4,7,8,9-HpCDF	0.69	0.0282	4.06 %	0.67	0.70	0.69	0.75	0.68	0.67
13C-OCDF	0.77	0.0336	4.37 %	0.75	0.74	0.76	0.83	0.79	0.76
37Cl-2,3,7,8-TCDD	0.71	0.0690	9.70 %	0.82	0.77	0.68	0.70	0.65	0.65
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-	-
13C-1,2,3,4-TCDF	-	-	- %	-	-	-	-	-	-
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-	-
Total Tetra-Dioxins	1.15	0.0659	5.74 %	1.21	1.20	1.10	1.21	1.08	1.08
Total Penta-Dioxins	1.02	0.0164	1.60 %	1.01	1.03	1.00	1.02	1.04	1.04
Total Hexa-Dioxins	1.10	0.0170	1.55 %	1.07	1.10	1.10	1.10	1.11	1.11
Total Hepta-Dioxins	1.03	0.0291	2.82 %	0.99	1.05	1.01	1.02	1.06	1.06
Total Tetra-Furans	1.09	0.0520	4.79 %	1.13	1.17	1.04	1.07	1.05	1.06
1st Fn. Tot Penta-Furans	0.96	0.00650	0.676 %	0.97	0.96	0.95	0.97	0.97	0.96
Total Penta-Furans	0.96	0.00650	0.676 %	0.97	0.96	0.95	0.97	0.97	0.96
Total Hexa-Furans	1.16	0.0288	2.48 %	1.13	1.13	1.15	1.17	1.20	1.18
Total Hepta-Furans	1.36	0.0254	1.87 %	1.34	1.35	1.34	1.34	1.40	1.37

Analyst: Date: 5/18/11

Run #2 Filename 17MAY11Z
Client ID: ST051711Z1

S: 3 Acquired: 17-MAY-11 15:57:56 Cal: PCDDFAL4-5-17-11
Analyte: FAL ID: 1613 CS1 100511H

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1 Unk	2,3,7,8-TCDD	0.50	3.29e+05	0.86 y	27:28	-	1.20 y
2 Unk	1,2,3,7,8-PeCDD	2.50	1.07e+06	1.58 y	33:18	-	1.03 y
3 Unk	1,2,3,4,7,8-HxCDD	2.50	1.09e+06	1.26 y	38:39	-	1.11 y
4 Unk	1,2,3,6,7,8-HxCDD	2.50	1.03e+06	1.32 y	38:49	-	1.08 y
5 Unk	1,2,3,7,8,9-HxCDD	2.50	1.07e+06	1.25 y	39:17	-	1.10 y
6 Unk	1,2,3,4,6,7,8-HpCDD	2.50	7.74e+05	1.09 y	44:14	-	1.05 y
7 Unk	OCDD	5.00	1.10e+06	0.89 y	49:47	-	1.20 y
8 Unk	2,3,7,8-TCDF	0.50	4.44e+05	0.68 y	26:41	-	1.17 y
9 Unk	1,2,3,7,8-PeCDF	2.50	1.39e+06	1.44 y	31:35	-	0.951 y
10 Unk	2,3,4,7,8-PeCDF	2.50	1.37e+06	1.56 y	32:54	-	0.963 y
11 Unk	1,2,3,4,7,8-HxCDF	2.50	1.18e+06	1.19 y	37:17	-	1.16 y
12 Unk	1,2,3,6,7,8-HxCDF	2.50	1.39e+06	1.28 y	37:29	-	1.02 y
13 Unk	2,3,4,6,7,8-HxCDF	2.50	1.29e+06	1.28 y	38:24	-	1.11 y
14 Unk	1,2,3,7,8,9-HxCDF	2.50	1.58e+06	1.24 y	39:51	-	1.24 y
15 Unk	1,2,3,4,6,7,8-HpCDF	2.50	1.14e+06	1.04 y	42:21	-	1.34 y
16 Unk	1,2,3,4,7,8,9-HpCDF	2.50	9.18e+05	1.00 y	45:09	-	1.35 y
17 Unk	OCDF	5.00	1.32e+06	0.86 y	50:09	-	0.919 y
18 IS/RT	13C-2,3,7,8-TCDD	100.00	5.46e+07	0.80 y	27:26	-	1.00 y
19 IS	13C-1,2,3,7,8-PeCDD	100.00	4.19e+07	1.55 y	33:17	-	0.768 y
20 IS	13C-1,2,3,4,7,8-HxCDD	100.00	3.96e+07	1.25 y	38:39	-	1.02 y
21 IS	13C-1,2,3,6,7,8-HxCDD	100.00	3.83e+07	1.26 y	38:49	-	0.986 y
22 IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.95e+07	1.06 y	44:13	-	0.759 y
23 IS	13C-OCDD	200.00	3.68e+07	0.89 y	49:45	-	0.474 y
24 IS	13C-2,3,7,8-TCDF	100.00	7.58e+07	0.81 y	26:40	-	0.989 y
25 IS	13C-1,2,3,7,8-PeCDF	100.00	5.84e+07	1.57 y	31:34	-	0.762 y
26 IS	13C-2,3,4,7,8-PeCDF	100.00	5.69e+07	1.58 y	32:53	-	0.742 y
27 IS	13C-1,2,3,4,7,8-HxCDF	100.00	4.07e+07	0.53 y	37:15	-	1.05 y
28 IS	13C-1,2,3,6,7,8-HxCDF	100.00	5.48e+07	0.51 y	37:28	-	1.41 y
29 IS	13C-2,3,4,6,7,8-HxCDF	100.00	4.67e+07	0.52 y	38:23	-	1.20 y
30 IS	13C-1,2,3,7,8,9-HxCDF	100.00	5.10e+07	0.52 y	39:49	-	1.31 y
31 IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	3.39e+07	0.44 y	42:19	-	0.873 y
32 IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	2.71e+07	0.45 y	45:08	-	0.698 y
33 IS	13C-OCDF	200.00	5.73e+07	0.91 y	50:08	-	0.738 y
34 C/Up	37Cl-2,3,7,8-TCDD	0.50	2.09e+05		27:27	-	0.767 y
35 RS	13C-1,2,3,4-TCDD	100.00	5.46e+07	0.81 y	26:52	5.46e+05	- n
36 RS	13C-1,2,3,4-TCDF	100.00	7.67e+07	0.79 y	25:34	7.67e+05	- n
37 RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	3.88e+07	1.26 y	39:15	3.88e+05	- n
38 Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.20 y
39 Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.03 y
40 Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.10 y
41 Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.05 y
42 Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.17 y
43 Tot	1st Fn. Total Penta-Furans	0.00	-	- n	-	-	0.957 y
44 Tot	Total Penta-Furans	0.00	-	- n	-	-	0.957 y
45 Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.13 y
46 Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.35 y

Analyst: J

Date: 5/18/11

Run #3 Filename 17MAY11Z
Client ID: ST051711Z2

S: 4 Acquired: 17-MAY-11 16:52:43 Cal: PCDDFAL4-5-17-11
Analyte: FAL ID: 1613 CS2 100511I

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1 Unk	2,3,7,8-TCDD	2.00	1.21e+06	0.79 y	27:28	-	1.10 y
2 Unk	1,2,3,7,8-PeCDD	10.00	4.32e+06	1.60 y	33:19	-	0.999 y
3 Unk	1,2,3,4,7,8-HxCDD	10.00	4.27e+06	1.26 y	38:40	-	1.06 y
4 Unk	1,2,3,6,7,8-HxCDD	10.00	4.06e+06	1.28 y	38:50	-	1.10 y
5 Unk	1,2,3,7,8,9-HxCDD	10.00	4.37e+06	1.27 y	39:17	-	1.13 y
6 Unk	1,2,3,4,6,7,8-HpCDD	10.00	2.94e+06	1.09 y	44:14	-	1.01 y
7 Unk	OCDD	20.00	4.62e+06	0.87 y	49:46	-	1.16 y
8 Unk	2,3,7,8-TCDF	2.00	1.61e+06	0.75 y	26:41	-	1.04 y
9 Unk	1,2,3,7,8-PeCDF	10.00	5.57e+06	1.53 y	31:36	-	0.943 y
10 Unk	2,3,4,7,8-PeCDF	10.00	5.47e+06	1.54 y	32:54	-	0.961 y
11 Unk	1,2,3,4,7,8-HxCDF	10.00	4.84e+06	1.25 y	37:17	-	1.17 y
12 Unk	1,2,3,6,7,8-HxCDF	10.00	5.54e+06	1.26 y	37:29	-	1.02 y
13 Unk	2,3,4,6,7,8-HxCDF	10.00	5.24e+06	1.26 y	38:25	-	1.18 y
14 Unk	1,2,3,7,8,9-HxCDF	10.00	6.31e+06	1.22 y	39:51	-	1.25 y
15 Unk	1,2,3,4,6,7,8-HpCDF	10.00	4.19e+06	1.04 y	42:21	-	1.36 y
16 Unk	1,2,3,4,7,8,9-HpCDF	10.00	3.50e+06	0.98 y	45:09	-	1.31 y
17 Unk	OCDF	20.00	5.69e+06	0.90 y	50:10	-	0.967 y
18 IS/RT	13C-2,3,7,8-TCDD	100.00	5.53e+07	0.79 y	27:26	-	1.01 y
19 IS	13C-1,2,3,7,8-PeCDD	100.00	4.32e+07	1.56 y	33:18	-	0.793 y
20 IS	13C-1,2,3,4,7,8-HxCDD	100.00	4.04e+07	1.25 y	38:39	-	1.04 y
21 IS	13C-1,2,3,6,7,8-HxCDD	100.00	3.68e+07	1.25 y	38:49	-	0.950 y
22 IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.91e+07	1.05 y	44:13	-	0.751 y
23 IS	13C-OCDD	200.00	3.97e+07	0.93 y	49:46	-	0.512 y
24 IS	13C-2,3,7,8-TCDF	100.00	7.75e+07	0.79 y	26:40	-	1.01 y
25 IS	13C-1,2,3,7,8-PeCDF	100.00	5.91e+07	1.58 y	31:34	-	0.771 y
26 IS	13C-2,3,4,7,8-PeCDF	100.00	5.69e+07	1.54 y	32:53	-	0.742 y
27 IS	13C-1,2,3,4,7,8-HxCDF	100.00	4.12e+07	0.52 y	37:15	-	1.06 y
28 IS	13C-1,2,3,6,7,8-HxCDF	100.00	5.41e+07	0.51 y	37:28	-	1.39 y
29 IS	13C-2,3,4,6,7,8-HxCDF	100.00	4.45e+07	0.52 y	38:23	-	1.15 y
30 IS	13C-1,2,3,7,8,9-HxCDF	100.00	5.03e+07	0.52 y	39:50	-	1.30 y
31 IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	3.09e+07	0.44 y	42:19	-	0.796 y
32 IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	2.67e+07	0.45 y	45:08	-	0.688 y
33 IS	13C-OCDF	200.00	5.88e+07	0.89 y	50:08	-	0.759 y
34 C/Up	37Cl-2,3,7,8-TCDD	2.00	7.40e+05		27:27	-	0.679 y
35 RS	13C-1,2,3,4-TCDD	100.00	5.45e+07	0.80 y	26:52	5.45e+05	- n
36 RS	13C-1,2,3,4-TCDF	100.00	7.67e+07	0.79 y	25:35	7.67e+05	- n
37 RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	3.88e+07	1.26 y	39:15	3.88e+05	- n
38 Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.10 y
39 Tot	Total Penta-Dioxins	0.00	-	- n	-	-	0.999 y
40 Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.10 y
41 Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.01 y
42 Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.04 y
43 Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.952 y
44 Tot	Total Penta-Furans	0.00	-	- n	-	-	0.952 y
45 Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.15 y
46 Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.34 y

Analyst: 8

Date: 5/18/11

Run #4 Filename 17MAY11Z
Client ID: ST051711Z3

S: 1 Acquired: 17-MAY-11 14:07:21 Cal: PCDDFAL4-5-17-11
Analyte: FAL ID: 1613 CS3 100511J

Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk 2,3,7,8-TCDD	10.00	6.55e+06	0.79 y	27:28	-	1.21	y
2	Unk 1,2,3,7,8-PeCDD	50.00	2.32e+07	1.57 y	33:19	-	1.02	y
3	Unk 1,2,3,4,7,8-HxCDD	50.00	2.22e+07	1.25 y	38:39	-	1.06	y
4	Unk 1,2,3,6,7,8-HxCDD	50.00	2.18e+07	1.27 y	38:50	-	1.10	y
5	Unk 1,2,3,7,8,9-HxCDD	50.00	2.31e+07	1.28 y	39:16	-	1.13	y
6	Unk 1,2,3,4,6,7,8-HpCDD	50.00	1.60e+07	1.04 y	44:14	-	1.02	y
7	Unk OCDD	100.00	2.54e+07	0.85 y	49:46	-	1.21	y
8	Unk 2,3,7,8-TCDF	10.00	8.32e+06	0.76 y	26:42	-	1.07	y
9	Unk 1,2,3,7,8-PeCDF	50.00	3.07e+07	1.57 y	31:35	-	0.977	y
10	Unk 2,3,4,7,8-PeCDF	50.00	2.90e+07	1.53 y	32:53	-	0.954	y
11	Unk 1,2,3,4,7,8-HxCDF	50.00	2.56e+07	1.27 y	37:17	-	1.17	y
12	Unk 1,2,3,6,7,8-HxCDF	50.00	3.13e+07	1.27 y	37:29	-	1.05	y
13	Unk 2,3,4,6,7,8-HxCDF	50.00	2.81e+07	1.26 y	38:24	-	1.17	y
14	Unk 1,2,3,7,8,9-HxCDF	50.00	3.43e+07	1.26 y	39:50	-	1.29	y
15	Unk 1,2,3,4,6,7,8-HpCDF	50.00	2.40e+07	1.04 y	42:20	-	1.35	y
16	Unk 1,2,3,4,7,8,9-HpCDF	50.00	1.98e+07	1.02 y	45:08	-	1.33	y
17	Unk OCDF	100.00	3.21e+07	0.91 y	50:09	-	0.972	y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	5.44e+07	0.80 y	27:27	-	1.02	y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	4.56e+07	1.57 y	33:18	-	0.851	y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	4.19e+07	1.25 y	38:38	-	1.05	y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	3.98e+07	1.26 y	38:48	-	0.998	y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	3.14e+07	1.07 y	44:12	-	0.788	y
23	IS 13C-OCDD	200.00	4.20e+07	0.96 y	49:46	-	0.527	y
24	IS 13C-2,3,7,8-TCDF	100.00	7.78e+07	0.81 y	26:40	-	1.02	y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	6.29e+07	1.58 y	31:33	-	0.820	y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	6.09e+07	1.53 y	32:52	-	0.795	y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	4.39e+07	0.52 y	37:15	-	1.10	y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	5.98e+07	0.53 y	37:27	-	1.50	y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	4.78e+07	0.53 y	38:23	-	1.20	y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	5.30e+07	0.52 y	39:49	-	1.33	y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	3.55e+07	0.44 y	42:19	-	0.892	y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.97e+07	0.43 y	45:07	-	0.746	y
33	IS 13C-OCDF	200.00	6.61e+07	0.89 y	50:07	-	0.830	y
34	C/Up 37Cl-2,3,7,8-TCDD	10.00	3.75e+06		27:28	-	0.700	y
35	RS 13C-1,2,3,4-TCDD	100.00	5.35e+07	0.80 y	26:51	5.35e+05	-	n
36	RS 13C-1,2,3,4-TCDF	100.00	7.66e+07	0.79 y	25:35	7.66e+05	-	n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	3.98e+07	1.24 y	39:14	3.98e+05	-	n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.21	y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.02	y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.10	y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.02	y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.07	y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.966	y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.966	y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	1.17	y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.34	y

Analyst:

Date: 5/18/11

Run #5 Filename 17MAY11Z
Client ID: ST051711Z4

S: 5 Acquired: 17-MAY-11 17:47:30
Analyte:

Cal: PCDDFAL4-5-17-11
FAL ID: 1613 CS4 100511K

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	40.00	2.18e+07	0.79 y	27:28	-	1.08 y
2	Unk 1,2,3,7,8-PeCDD	200.00	8.27e+07	1.55 y	33:20	-	1.04 y
3	Unk 1,2,3,4,7,8-HxCDD	200.00	8.35e+07	1.25 y	38:40	-	1.11 y
4	Unk 1,2,3,6,7,8-HxCDD	200.00	7.42e+07	1.27 y	38:50	-	1.09 y
5	Unk 1,2,3,7,8,9-HxCDD	200.00	8.15e+07	1.26 y	39:17	-	1.14 y
6	Unk 1,2,3,4,6,7,8-HpCDD	200.00	5.73e+07	1.03 y	44:15	-	1.06 y
7	Unk OCDD	400.00	9.46e+07	0.92 y	49:47	-	1.26 y
8	Unk 2,3,7,8-TCDF	40.00	2.90e+07	0.76 y	26:42	-	1.05 y
9	Unk 1,2,3,7,8-PeCDF	200.00	1.06e+08	1.57 y	31:35	-	0.968 y
10	Unk 2,3,4,7,8-PeCDF	200.00	1.01e+08	1.57 y	32:54	-	0.962 y
11	Unk 1,2,3,4,7,8-HxCDF	200.00	9.10e+07	1.24 y	37:17	-	1.20 y
12	Unk 1,2,3,6,7,8-HxCDF	200.00	1.06e+08	1.24 y	37:29	-	1.06 y
13	Unk 2,3,4,6,7,8-HxCDF	200.00	1.00e+08	1.24 y	38:25	-	1.21 y
14	Unk 1,2,3,7,8,9-HxCDF	200.00	1.25e+08	1.25 y	39:51	-	1.34 y
15	Unk 1,2,3,4,6,7,8-HpCDF	200.00	8.10e+07	1.02 y	42:21	-	1.40 y
16	Unk 1,2,3,4,7,8,9-HpCDF	200.00	6.94e+07	1.00 y	45:09	-	1.39 y
17	Unk OCDF	400.00	1.13e+08	0.91 y	50:10	-	0.987 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	5.03e+07	0.80 y	27:27	-	0.974 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	3.97e+07	1.58 y	33:17	-	0.770 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	3.75e+07	1.25 y	38:38	-	1.03 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	3.42e+07	1.25 y	38:48	-	0.938 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.69e+07	1.08 y	44:13	-	0.739 y
23	IS 13C-OCDD	200.00	3.77e+07	0.85 y	49:46	-	0.517 y
24	IS 13C-2,3,7,8-TCDF	100.00	6.89e+07	0.79 y	26:41	-	0.955 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	5.45e+07	1.57 y	31:34	-	0.755 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	5.26e+07	1.58 y	32:53	-	0.728 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	3.79e+07	0.52 y	37:16	-	1.04 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	4.99e+07	0.52 y	37:28	-	1.37 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	4.12e+07	0.52 y	38:24	-	1.13 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	4.68e+07	0.52 y	39:49	-	1.28 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.88e+07	0.43 y	42:20	-	0.792 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.49e+07	0.43 y	45:08	-	0.684 y
33	IS 13C-OCDF	200.00	5.73e+07	0.89 y	50:08	-	0.786 y
34	C/Up 37Cl-2,3,7,8-TCDD	40.00	1.34e+07		27:28	-	0.648 y
35	RS 13C-1,2,3,4-TCDD	100.00	5.16e+07	0.80 y	26:51	5.16e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	7.22e+07	0.79 y	25:35	7.22e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	3.64e+07	1.25 y	39:15	3.64e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.08 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.04 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.11 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.06 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.05 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.965 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.965 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	1.20 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.40 y

Analyst:

Date: 5/18/11

Run #6 Filename 17MAY11Z
Client ID: ST05171125

S: 6 Acquired: 17-MAY-11 18:42:17
Analyte: PCDDFAL3-5-17-11

Cal: PCDDFAL4-5-17-11
FAL ID: 1613 CS5 100511L

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	200.00	1.10e+08	0.78 y	27:28	-	1.08 y
2	Unk 1,2,3,7,8-PeCDD	1000.00	4.22e+08	1.56 y	33:20	-	1.04 y
3	Unk 1,2,3,4,7,8-HxCDD	1000.00	4.44e+08	1.23 y	38:40	-	1.10 y
4	Unk 1,2,3,6,7,8-HxCDD	1000.00	3.78e+08	1.23 y	38:50	-	1.08 y
5	Unk 1,2,3,7,8,9-HxCDD	1000.00	4.35e+08	1.25 y	39:17	-	1.15 y
6	Unk 1,2,3,4,6,7,8-HpCDD	1000.00	3.01e+08	1.05 y	44:15	-	1.06 y
7	Unk OCDD	2000.00	4.82e+08	0.90 y	49:48	-	1.22 y
8	Unk 2,3,7,8-TCDF	200.00	1.46e+08	0.77 y	26:42	-	1.06 y
9	Unk 1,2,3,7,8-PeCDF	1000.00	5.36e+08	1.55 y	31:36	-	0.965 y
10	Unk 2,3,4,7,8-PeCDF	1000.00	5.21e+08	1.56 y	32:54	-	0.958 y
11	Unk 1,2,3,4,7,8-HxCDF	1000.00	4.63e+08	1.24 y	37:18	-	1.18 y
12	Unk 1,2,3,6,7,8-HxCDF	1000.00	5.18e+08	1.24 y	37:29	-	1.05 y
13	Unk 2,3,4,6,7,8-HxCDF	1000.00	4.86e+08	1.23 y	38:25	-	1.19 y
14	Unk 1,2,3,7,8,9-HxCDF	1000.00	6.62e+08	1.24 y	39:51	-	1.32 y
15	Unk 1,2,3,4,6,7,8-HpCDF	1000.00	4.31e+08	1.01 y	42:22	-	1.39 y
16	Unk 1,2,3,4,7,8,9-HpCDF	1000.00	3.66e+08	1.04 y	45:09	-	1.36 y
17	Unk OCDF	2000.00	6.00e+08	0.90 y	50:10	-	0.988 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	5.09e+07	0.79 y	27:26	-	0.950 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	4.07e+07	1.55 y	33:18	-	0.759 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	4.04e+07	1.27 y	38:40	-	1.01 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	3.49e+07	1.25 y	38:49	-	0.870 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.84e+07	1.06 y	44:14	-	0.708 y
23	IS 13C-OCDD	200.00	3.95e+07	0.90 y	49:47	-	0.492 y
24	IS 13C-2,3,7,8-TCDF	100.00	6.90e+07	0.80 y	26:40	-	0.930 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	5.56e+07	1.57 y	31:35	-	0.749 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	5.43e+07	1.60 y	32:53	-	0.732 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	3.91e+07	0.52 y	37:16	-	0.974 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	4.92e+07	0.53 y	37:28	-	1.23 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	4.10e+07	0.51 y	38:24	-	1.02 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	5.03e+07	0.52 y	39:50	-	1.25 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	3.11e+07	0.44 y	42:20	-	0.775 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.69e+07	0.44 y	45:09	-	0.669 y
33	IS 13C-OCDF	200.00	6.07e+07	0.90 y	50:10	-	0.756 y
34	C/Up 37Cl-2,3,7,8-TCDD	200.00	6.98e+07		27:28	-	0.650 y
35	RS 13C-1,2,3,4-TCDD	100.00	5.36e+07	0.81 y	26:52	5.36e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	7.42e+07	0.79 y	25:36	7.42e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	4.01e+07	1.23 y	39:16	4.01e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.08 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.04 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.11 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.06 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.06 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.962 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.962 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	1.18 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.37 y

Analyst: 6

Date: 5/18/11

USEPA - ITD

FORM 3A
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4 GC Column ID: DB5

CS0 Data Filename: 17MAY11Z S2 CS3 Data Filename: 17MAY11Z S1

CS1 Data Filename: 17MAY11Z S3 CS4 Data Filename: 17MAY11Z S5

CS2 Data Filename: 17MAY11Z S4 CS5 Data Filename: 17MAY11Z S6

NATIVE ANALYTES	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
2,3,7,8-TCDD	1.21	1.20	1.10	1.21	1.08	1.08	1.15	5.74
1,2,3,7,8-PeCDD	1.01	1.03	1.00	1.02	1.04	1.04	1.02	1.60
1,2,3,4,7,8-HxCDD	1.09	1.11	1.06	1.06	1.11	1.10	1.09	2.18
1,2,3,6,7,8-HxCDD	1.05	1.08	1.10	1.10	1.09	1.08	1.08	1.53
1,2,3,7,8,9-HxCDD	1.05	1.10	1.13	1.13	1.14	1.15	1.12	3.35
1,2,3,4,6,7,8-HpCDD	0.99	1.05	1.01	1.02	1.06	1.06	1.03	2.82
OCDD	1.18	1.20	1.16	1.21	1.26	1.22	1.21	2.65
2,3,7,8-TCDF	1.13	1.17	1.04	1.07	1.05	1.06	1.09	4.79
1,2,3,7,8-PeCDF	0.97	0.95	0.94	0.98	0.97	0.96	0.96	1.40
2,3,4,7,8-PeCDF	0.96	0.96	0.96	0.95	0.96	0.96	0.96	0.388
1,2,3,4,7,8-HxCDF	1.22	1.16	1.17	1.17	1.20	1.18	1.18	1.86
1,2,3,6,7,8-HxCDF	1.00	1.02	1.02	1.05	1.06	1.05	1.03	2.30
2,3,4,6,7,8-HxCDF	1.13	1.11	1.18	1.17	1.21	1.19	1.17	3.26
1,2,3,7,8,9-HxCDF	1.21	1.24	1.25	1.29	1.34	1.32	1.27	3.81
1,2,3,4,6,7,8-HpCDF	1.34	1.34	1.36	1.35	1.40	1.39	1.36	1.90
1,2,3,4,7,8,9-HpCDF	1.33	1.35	1.31	1.33	1.39	1.36	1.35	2.14
OCDF	0.97	0.92	0.97	0.97	0.99	0.99	0.97	2.58

Analyst: Date: 5/18/11

USEPA - ITD

FORM 3B

PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4 GC Column ID: DB5

CS0 Data Filename: 17MAY11Z S2 CS4 Data Filename: 17MAY11Z S1

CS1 Data Filename: 17MAY11Z S3 CS4 Data Filename: 17MAY11Z S5

CS2 Data Filename: 17MAY11Z S4 CS5 Data Filename: 17MAY11Z S6

Labeled Compounds	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
13C-2,3,7,8-TCDD	0.98	1.00	1.01	1.02	0.97	0.95	0.99	2.60
13C-1,2,3,7,8-PeCDD	0.81	0.77	0.79	0.85	0.77	0.76	0.79	4.42
13C-1,2,3,4,7,8-HxCDD	1.03	1.02	1.04	1.05	1.03	1.01	1.03	1.53
13C-1,2,3,6,7,8-HxCDD	0.99	0.99	0.95	1.00	0.94	0.87	0.96	5.06
13C-1,2,3,4,6,7,8-HpCDD	0.74	0.76	0.75	0.79	0.74	0.71	0.75	3.56
13C-OCDD	0.50	0.47	0.51	0.53	0.52	0.49	0.50	3.82
13C-2,3,7,8-TCDF	0.98	0.99	1.01	1.02	0.95	0.93	0.98	3.36
13C-1,2,3,7,8-PeCDF	0.80	0.76	0.77	0.82	0.76	0.75	0.78	3.56
13C-2,3,4,7,8-PeCDF	0.78	0.74	0.74	0.79	0.73	0.73	0.75	3.55
13C-1,2,3,4,7,8-HxCDF	1.09	1.05	1.06	1.10	1.04	0.97	1.05	4.27
13C-1,2,3,6,7,8-HxCDF	1.49	1.41	1.39	1.50	1.37	1.23	1.40	7.09
13C-2,3,4,6,7,8-HxCDF	1.24	1.20	1.15	1.20	1.13	1.02	1.16	6.73
13C-1,2,3,7,8,9-HxCDF	1.30	1.31	1.30	1.33	1.28	1.25	1.30	2.05
13C-1,2,3,4,6,7,8-HpCDF	0.82	0.87	0.80	0.89	0.79	0.78	0.83	5.74
13C-1,2,3,4,7,8,9-HpCDF	0.67	0.70	0.69	0.75	0.68	0.67	0.69	4.06
13C-OCDF	0.75	0.74	0.76	0.83	0.79	0.76	0.77	4.37
CLEANUP STANDARD								
37Cl-2,3,7,8-TCDD	0.82	0.77	0.68	0.70	0.65	0.65	0.71	9.70

Analyst: 8Date: 5/18/11

USEPA - ITD

FORM 3C

PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4 GC Column ID: DB5

CS0 Data Filename: 17MAY11Z S2 CS3 Data Filename: 17MAY11Z S1

CS1 Data Filename: 17MAY11Z S3 CS4 Data Filename: 17MAY11Z S5

CS2 Data Filename: 17MAY11Z S4 CS5 Data Filename: 17MAY11Z S6

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
2,3,7,8-TCDD	M/M+2	0.76	0.86	0.79	0.79	0.79	0.78	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.65	1.58	1.60	1.57	1.55	1.56	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.26	1.26	1.25	1.25	1.23	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.30	1.32	1.28	1.27	1.27	1.23	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.19	1.25	1.27	1.28	1.26	1.25	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	1.09	1.09	1.04	1.03	1.05	0.88-1.20
OCDD	M+2/M+4	0.90	0.89	0.87	0.85	0.92	0.90	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.74	0.68	0.75	0.76	0.76	0.77	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.56	1.44	1.53	1.57	1.57	1.55	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.46	1.56	1.54	1.53	1.57	1.56	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.19	1.25	1.27	1.24	1.24	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.17	1.28	1.26	1.27	1.24	1.24	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.23	1.28	1.26	1.26	1.24	1.23	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.24	1.22	1.26	1.25	1.24	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.96	1.04	1.04	1.04	1.02	1.01	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.07	1.00	0.98	1.02	1.00	1.04	0.88-1.20
OCDF	M+2/M+4	0.87	0.86	0.90	0.91	0.91	0.90	0.76-1.02

Analyst: 

Date: 5/18/11

USEPA - ITD

FORM 3D
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/17/11


Instrument ID: FAL4 GC Column ID: DB5

CS0 Data Filename: 17MAY11Z S2 CS3 Data Filename: 17MAY11Z S1

CS1 Data Filename: 17MAY11Z S3 CS4 Data Filename: 17MAY11Z S5

CS2 Data Filename: 17MAY11Z S4 CS5 Data Filename: 17MAY11Z S6

Labeled Compounds	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
13C-2,3,7,8-TCDD	M/M+2	0.78	0.80	0.79	0.80	0.80	0.79	0.65-0.89
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.59	1.55	1.56	1.57	1.58	1.55	1.32-1.78
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.25	1.25	1.25	1.25	1.27	1.05-1.43
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.26	1.25	1.26	1.25	1.25	1.05-1.43
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	1.06	1.05	1.07	1.08	1.06	0.88-1.20
13C-OCDD	M+2/M+4	0.93	0.89	0.93	0.96	0.85	0.90	0.76-1.02
13C-2,3,7,8-TCDF	M/M+2	0.80	0.81	0.79	0.81	0.79	0.80	0.65-0.89
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.57	1.57	1.58	1.58	1.57	1.57	1.32-1.78
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.58	1.54	1.53	1.58	1.60	1.32-1.78
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.53	0.52	0.52	0.52	0.52	0.43-0.59
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.51	0.51	0.53	0.52	0.53	0.43-0.59
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.52	0.52	0.53	0.52	0.51	0.43-0.59
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.53	0.52	0.52	0.52	0.52	0.52	0.43-0.59
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.43	0.44	0.44	0.44	0.43	0.44	0.37-0.51
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.45	0.45	0.43	0.43	0.44	0.37-0.51
13C-OCDF	M+2/M+4	0.91	0.91	0.89	0.89	0.89	0.90	0.76-1.02

Analyst: 

Date: 5/18/11

USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4 GC Column ID: DB5

VER Data Filename: 17MAY11Z Sam:1 Analysis Date: 17-MAY-11 14:07:21

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	10.5	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.57	1.32-1.78	y	49.8	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	48.7	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	50.7	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.28	1.05-1.43	y	50.6	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	49.3	43.0 - 58.0
OCDD	M+2/M+4	0.85	0.76-1.02	y	100	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	9.84	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	50.7	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.53	1.32-1.78	y	49.7	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	49.3	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	50.7	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	50.4	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.26	1.05-1.43	y	50.8	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	0.88-1.20	y	49.6	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	49.4	43.0 - 58.0
OCDF	M+2/M+4	0.91	0.76-1.02	y	100	63.0 - 159

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

Analyst: J Date: 5/18/11

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4

GC Column ID: DB5

VER Data Filename: 17MAY11Z Sam:1

Analysis Date: 17-MAY-11 14:07:21

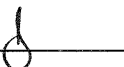
Labeled Compounds	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.80	0.65-0.89	y	103	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.57	1.32-1.78	y	107	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	102	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	104	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	106	72.0 - 138
13C-OCDD	M+2/M+4	0.96	0.76-1.02	y	209	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.81	0.65-0.89	y	104	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	106	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.53	1.32-1.78	y	106	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	105	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.53	0.43-0.59	y	107	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.53	0.43-0.59	y	104	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	103	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.44	0.37-0.51	y	108	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.43	0.37-0.51	y	108	77.0 - 129
13C-OCDF	M+2/M+4	0.89	0.76-1.02	y	216	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.85	7.80 - 12.8

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) No ion abundance ratio; report concentration found.

Analyst: Date: 5/18/11

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL4 Initial Calibration Date: 5/17/11
RT Window Data Filename: 17MAY11Z Sam:1 Analysis Date: 17-MAY-11 Time: 14:07:21
DB-5 IS Data Filename: 17MAY11Z Sam:1 Analysis Date: 17-MAY-11 Time: 14:07:21
DB-225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:25	1,3,6,8-TCDF (F)	23:02
1,2,8,9-TCDD (L)	28:25	1,2,8,9-TCDF (L)	28:38
1,2,4,7,9-PeCDD (F)	30:21	1,3,4,6,8-PeCDF (F)	28:29
1,2,3,8,9-PeCDD (L)	33:53	1,2,3,8,9-PeCDF (L)	34:19
1,2,4,6,7,9-HxCDD (F)	36:13	1,2,3,4,6,8-HxCDF (F)	35:20
1,2,3,7,8,9-HxCDD (L)	39:16	1,2,3,7,8,9-HxCDF (L)	39:50
1,2,3,4,6,7,9-HpCDD (F)	42:51	1,2,3,4,6,7,8-HpCDF (F)	42:20
1,2,3,4,6,7,8-HpCDD (L)	44:14	1,2,3,4,7,8,9-HpCDF (L)	45:08

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

(1) To meet contract requirement, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: J

Date: 5/14/11

USEPA - ITD

FORM 6A

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/17/11

Instrument ID: FAL4

GC Column ID: DB5

Analysis Date: 17-MAY-11 14:07:21

CS3 or VER Data Filename: 17MAY11Z

Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.000	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.989-1.052
13C-2,3,7,8-TCDD		1.022	0.976-1.043
13C-2,3,7,8-TCDF		0.993	0.923-1.103
13C-1,2,3,7,8-PeCDD		1.240	1.000-1.567
13C-1,2,3,7,8-PeCDF		1.175	0.923-1.203
13C-2,3,4,7,8-PeCDF		1.224	0.923-1.303

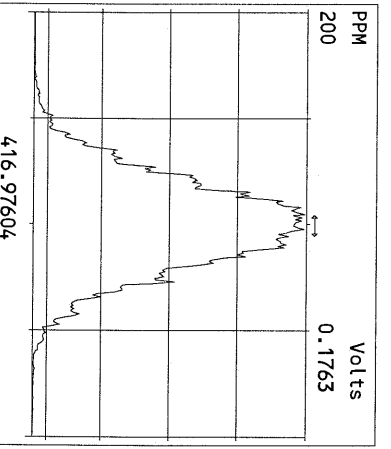
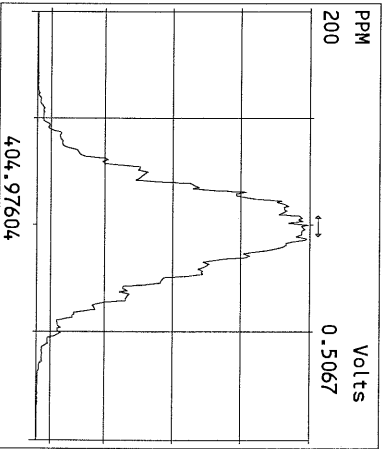
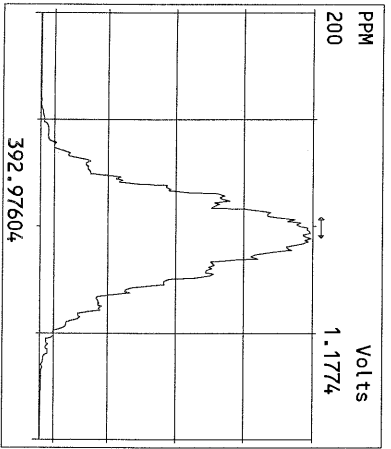
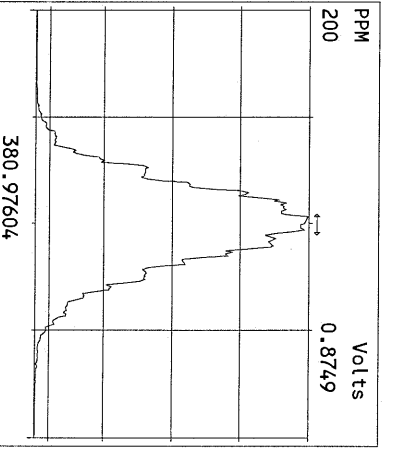
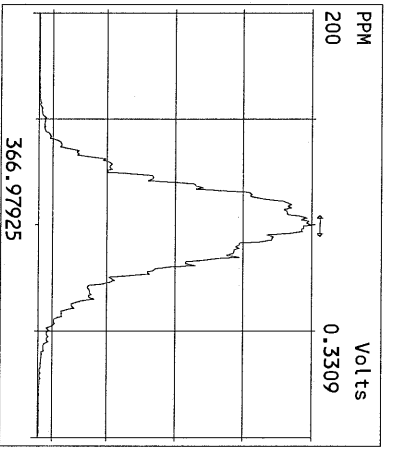
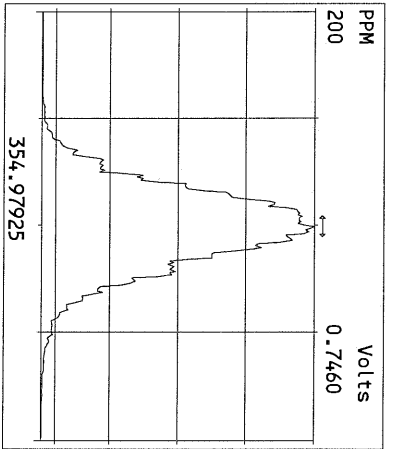
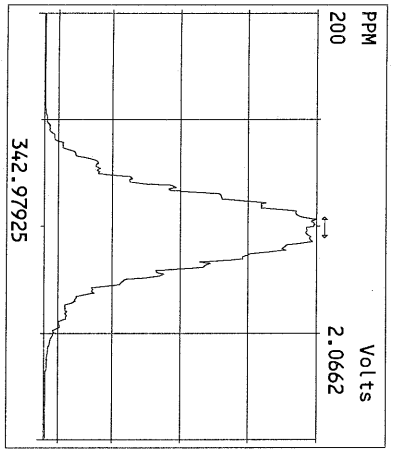
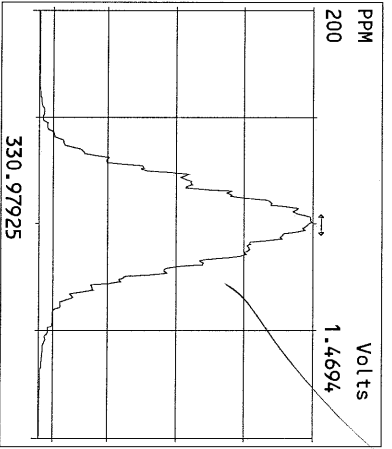
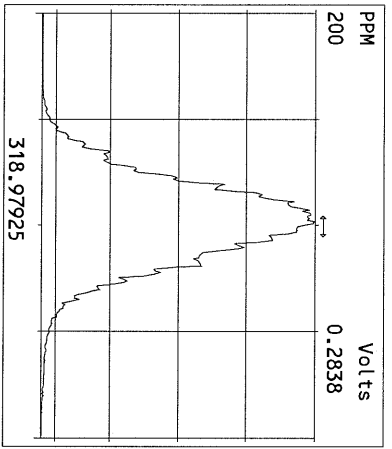
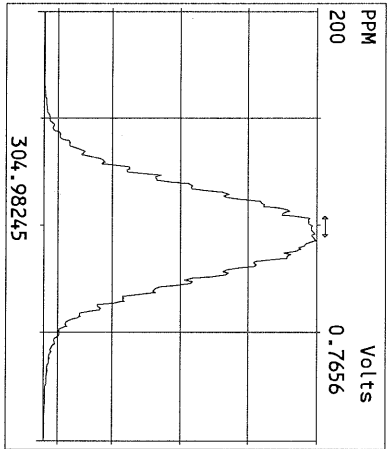
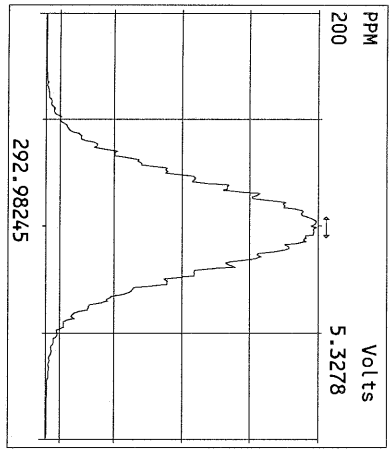
(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

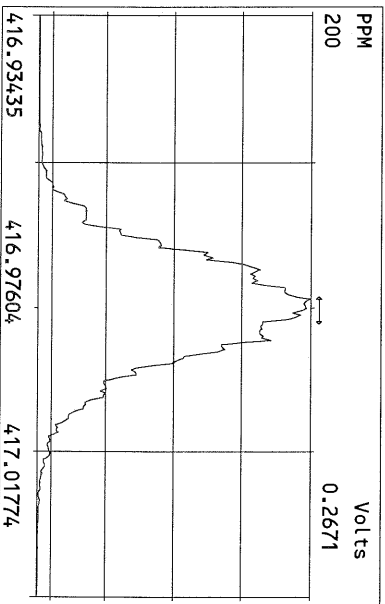
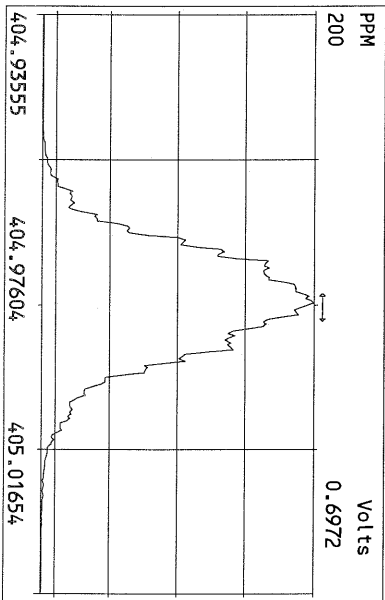
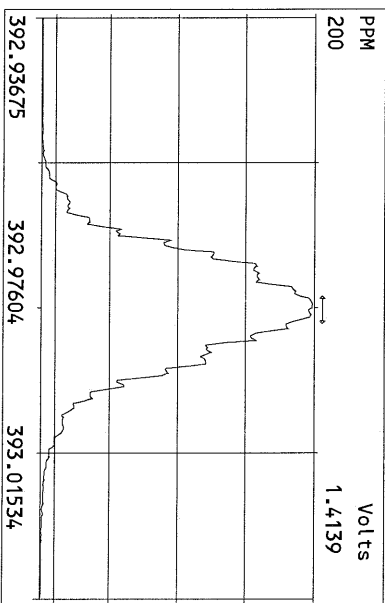
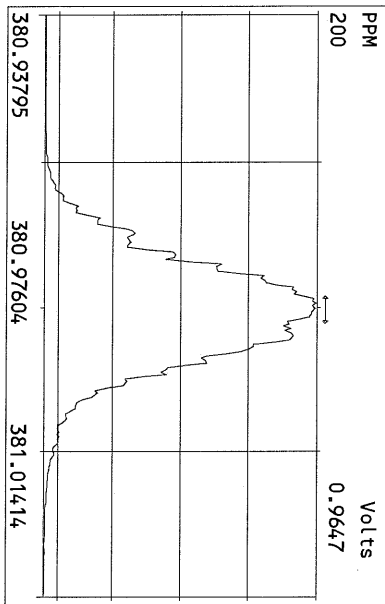
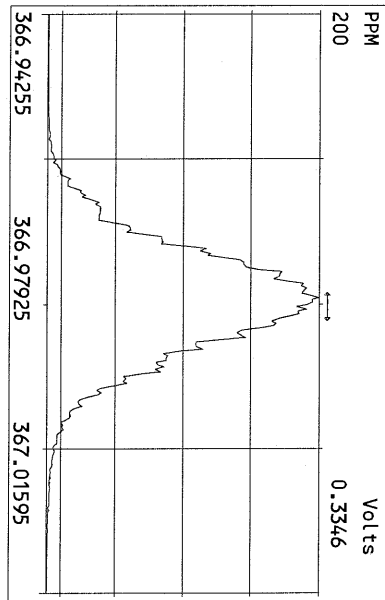
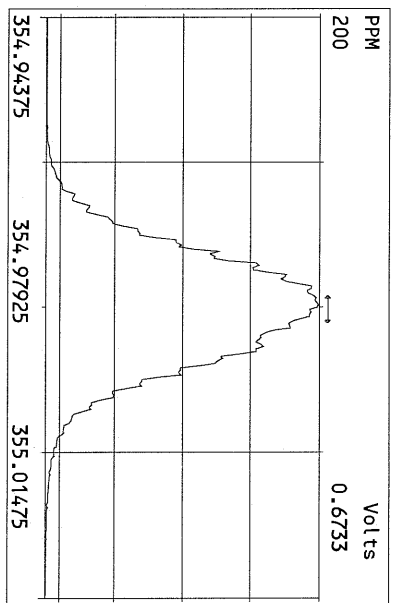
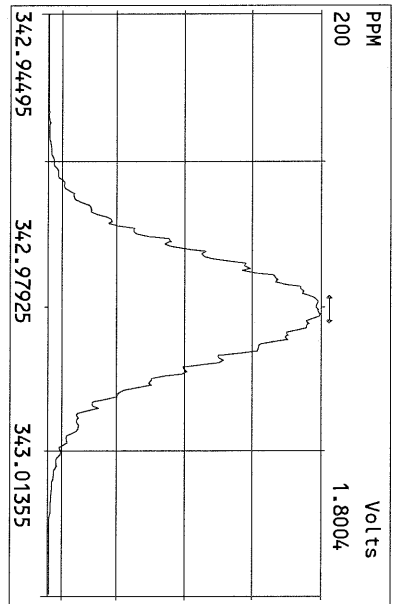
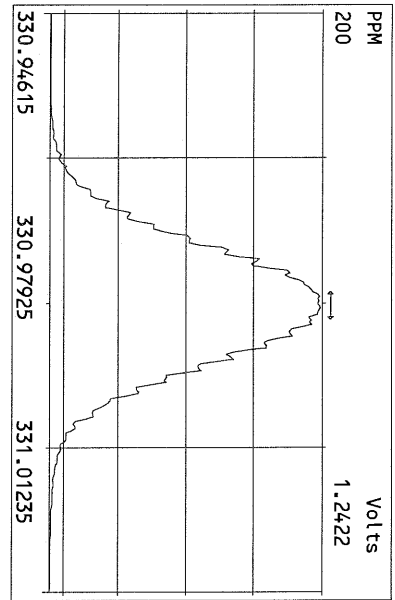
Analyst: Date: 5/18/11

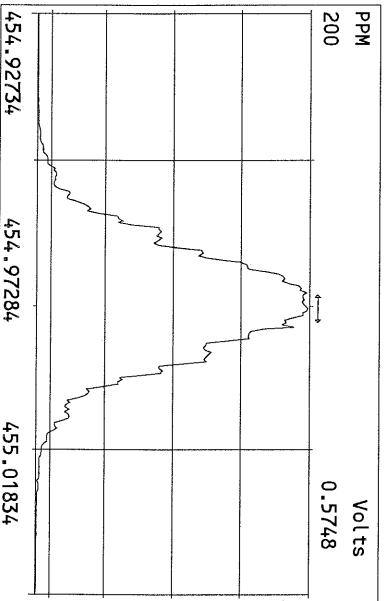
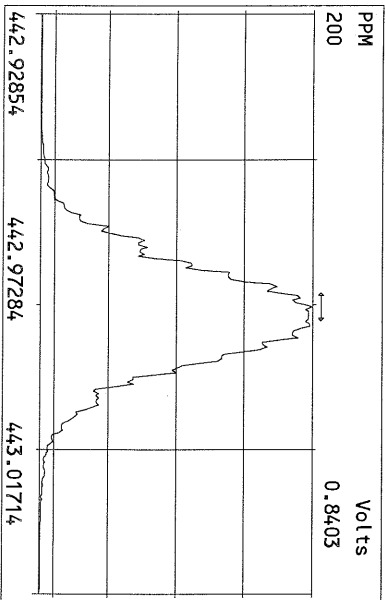
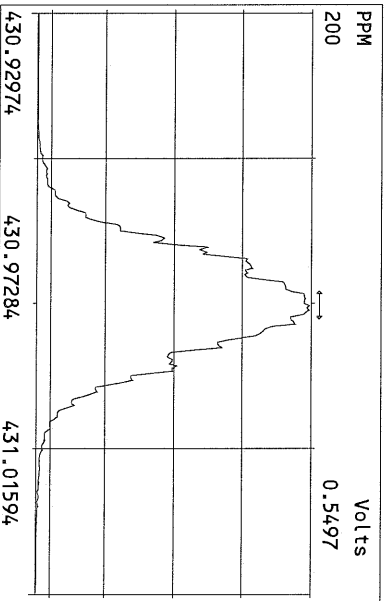
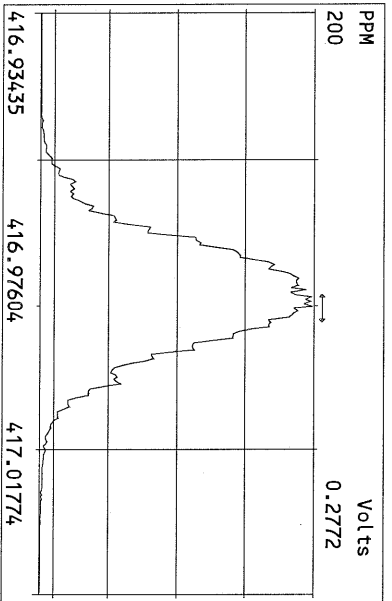
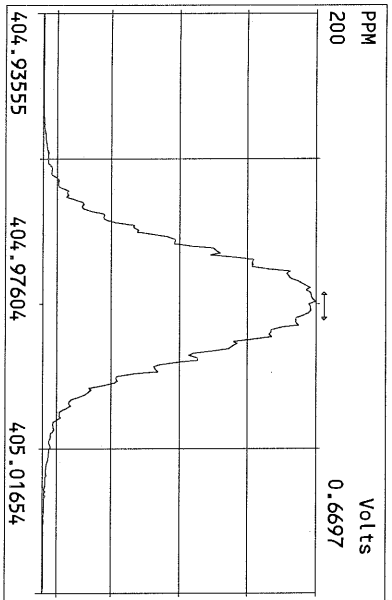
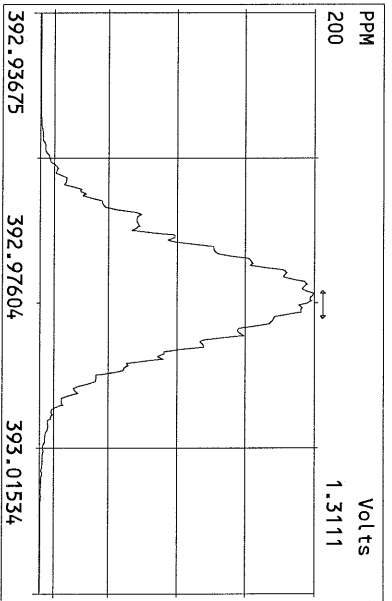
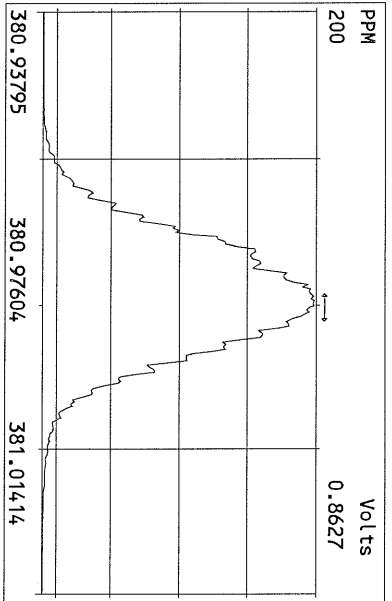
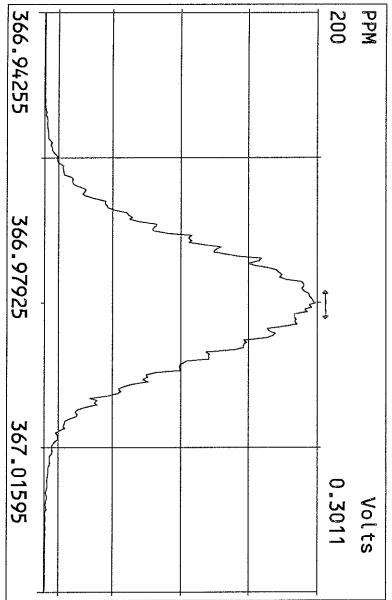
Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	6.55e+06	0.79 y	27:28	1.15	10.5		2.50	-	-	*	
1,2,3,7,8-PeCDD	2.32e+07	1.57 y	33:19	1.02	49.8		2.50	-	-	*	
1,2,3,4,7,8-HxCDD	2.22e+07	1.25 y	38:39	1.09	48.7		2.50	-	-	*	
1,2,3,6,7,8-HxCDD	2.18e+07	1.27 y	38:50	1.08	50.7		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	2.31e+07	1.28 y	39:16	1.12	50.6		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	1.60e+07	1.04 y	44:14	1.03	49.3		2.50	-	-	*	
OCDD	2.54e+07	0.85 y	49:46	1.21	100		2.50	-	-	*	
2,3,7,8-TCDF	8.32e+06	0.76 y	26:42	1.09	9.84		2.50	-	-	*	
1,2,3,7,8-PeCDF	3.07e+07	1.57 y	31:35	0.96	50.7		2.50	-	-	*	
2,3,4,7,8-PeCDF	2.90e+07	1.53 y	32:53	0.96	49.7		2.50	-	-	*	
1,2,3,4,7,8-HxCDF	2.56e+07	1.27 y	37:17	1.18	49.3		2.50	-	-	*	
1,2,3,6,7,8-HxCDF	3.13e+07	1.27 y	37:29	1.03	50.7		2.50	-	-	*	
2,3,4,6,7,8-HxCDF	2.81e+07	1.26 y	38:24	1.17	50.4		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	3.43e+07	1.26 y	39:50	1.27	50.8		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	2.40e+07	1.04 y	42:20	1.36	49.6		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	1.98e+07	1.02 y	45:08	1.35	49.4		2.50	-	-	*	
OCDF	3.21e+07	0.91 y	50:09	0.97	100		2.50	-	-	*	
13C-2,3,7,8-TCDD	5.44e+07	0.80 y	27:27	0.99	103					103	
13C-1,2,3,7,8-PeCDD	4.56e+07	1.57 y	33:18	0.79	107					107	
13C-1,2,3,4,7,8-HxCDD	4.19e+07	1.25 y	38:38	1.03	102					102	
13C-1,2,3,6,7,8-HxCDD	3.98e+07	1.26 y	38:48	0.96	104					104	
13C-1,2,3,4,6,7,8-HpCDD	3.14e+07	1.07 y	44:12	0.75	106					106	
13C-OCDD	4.20e+07	0.96 y	49:46	0.50	209					105	
13C-2,3,7,8-TCDF	7.78e+07	0.81 y	26:40	0.98	104					104	
13C-1,2,3,7,8-PeCDF	6.29e+07	1.58 y	31:33	0.78	106					106	
13C-2,3,4,7,8-PeCDF	6.09e+07	1.53 y	32:52	0.75	106					106	
13C-1,2,3,4,7,8-HxCDF	4.39e+07	0.52 y	37:15	1.05	105					105	
13C-1,2,3,6,7,8-HxCDF	5.98e+07	0.53 y	37:27	1.40	107					107	
13C-2,3,4,6,7,8-HxCDF	4.78e+07	0.53 y	38:23	1.16	104					104	
13C-1,2,3,7,8,9-HxCDF	5.30e+07	0.52 y	39:49	1.30	103					103	
13C-1,2,3,4,6,7,8-HpCDF	3.55e+07	0.44 y	42:19	0.83	108					108	
13C-1,2,3,4,7,8,9-HpCDF	2.97e+07	0.43 y	45:07	0.69	108					108	
13C-OCDF	6.61e+07	0.89 y	50:07	0.77	216					108	
37Cl-2,3,7,8-TCDD	3.75e+06		27:28	0.71	9.85					98.5	
13C-1,2,3,4-TCDD	5.35e+07	0.80 y	26:51	-	100						
13C-1,2,3,4-TCDF	7.66e+07	0.79 y	25:35	-	102						
13C-1,2,3,7,8,9-HxCDD	3.98e+07	1.24 y	39:14	-	103						
Total Tetra-Dioxins	3.31e+07		24:25	1.15	53.0		2.50	-	-	*	17
Total Penta-Dioxins	5.01e+07		30:21	1.02	108		2.50	-	-	*	11
Total Hexa-Dioxins	7.56e+07		36:13	1.10	169		2.50	-	-	*	11
Total Hepta-Dioxins	3.45e+07		42:51	1.03	106		2.50	-	-	*	17
Total Tetra-Furans	3.78e+07		23:02	1.09	44.8		2.50	-	-	*	19
1st Fn. Tot Penta-Furans	4.23e+07		28:29	0.96	71.0		2.50	-	-	*	PeCDF 1
Total Penta-Furans	8.85e+07		30:19	0.96	149		2.50	-	-	*	220 14
Total Hexa-Furans	1.37e+08		35:20	1.16	232		2.50	-	-	*	14
Total Hepta-Furans	4.54e+07		42:20	1.36	102		2.50	-	-	*	14

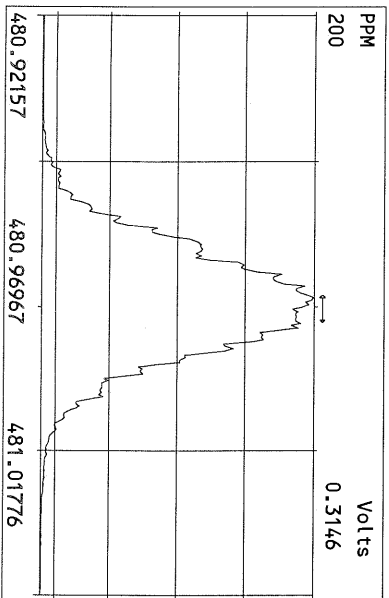
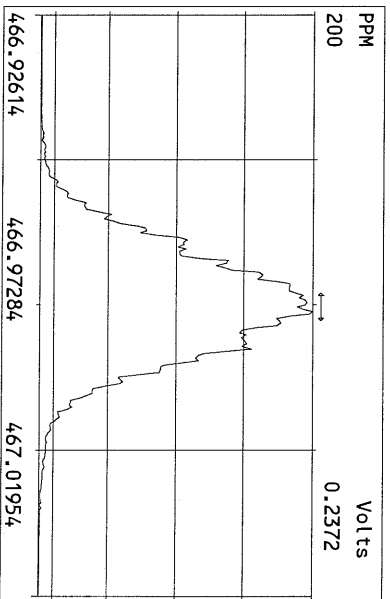
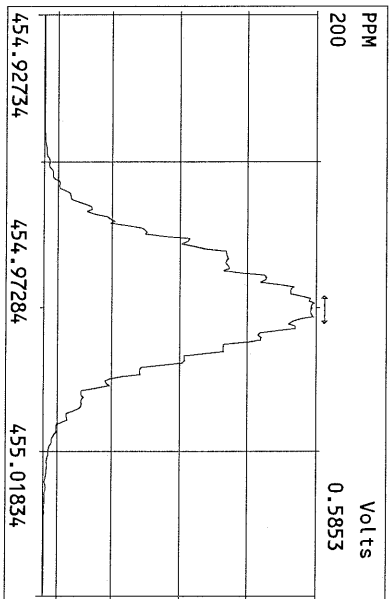
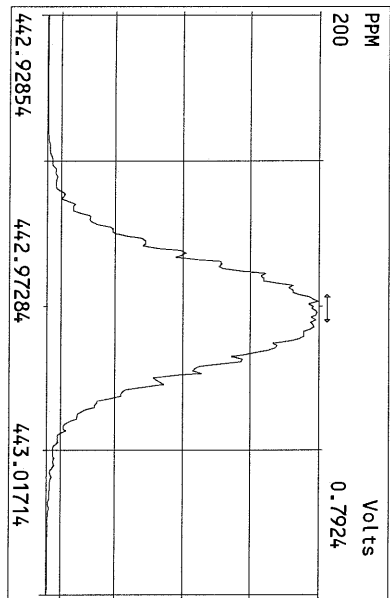
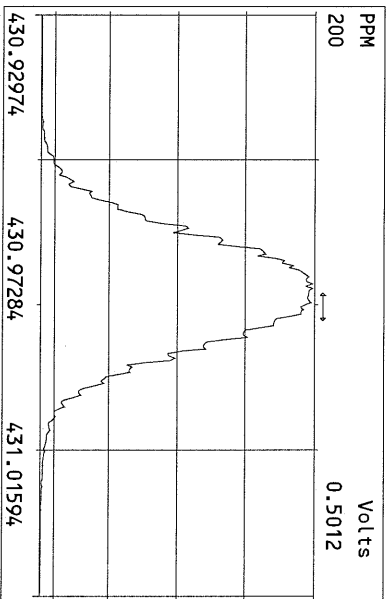
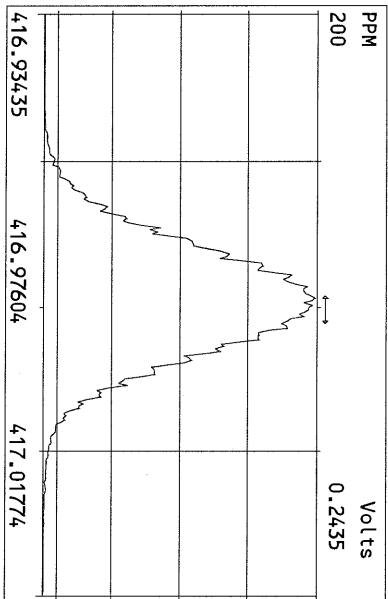
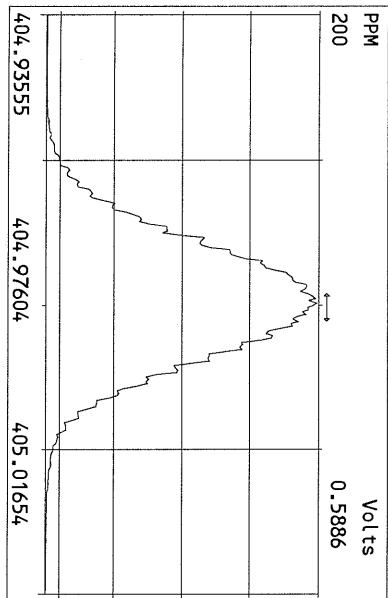
Analyst: 

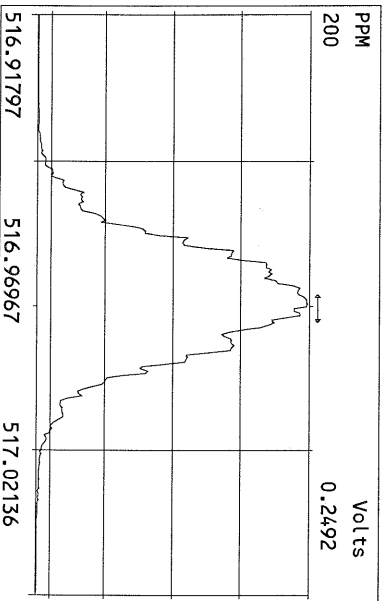
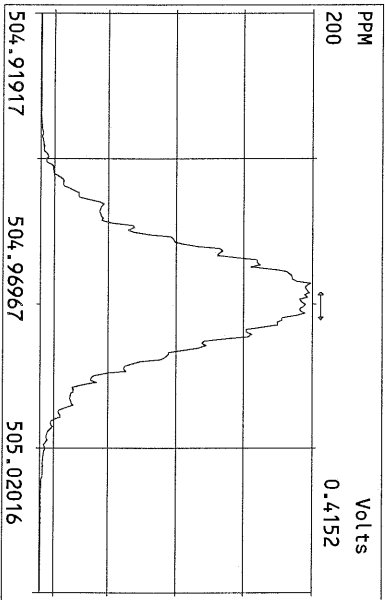
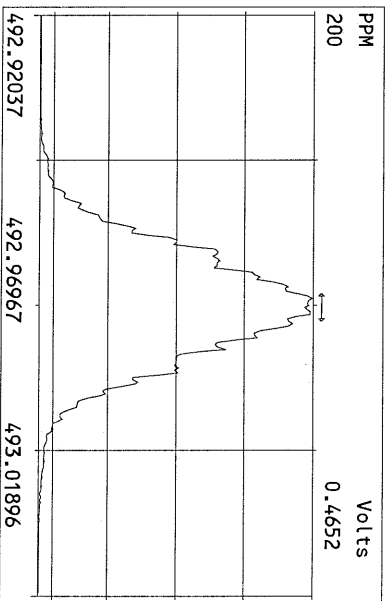
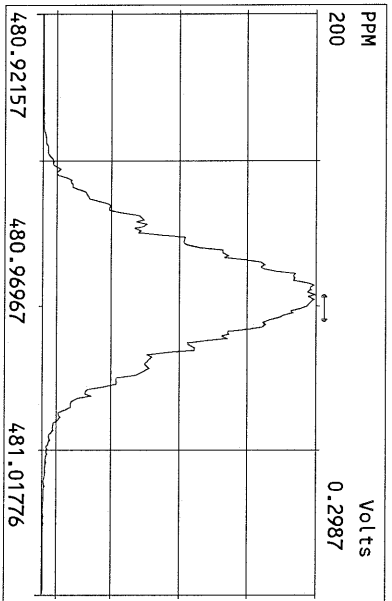
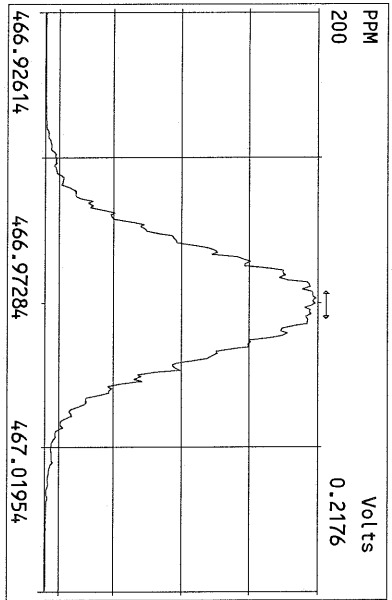
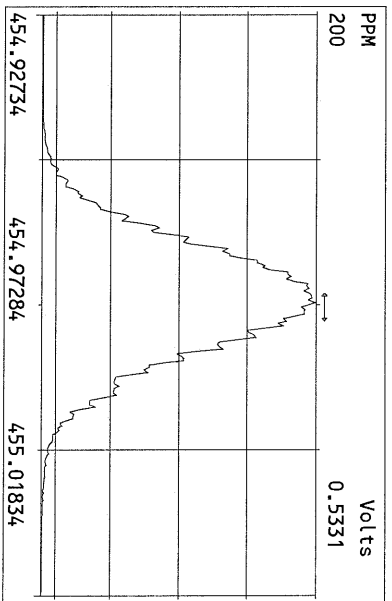
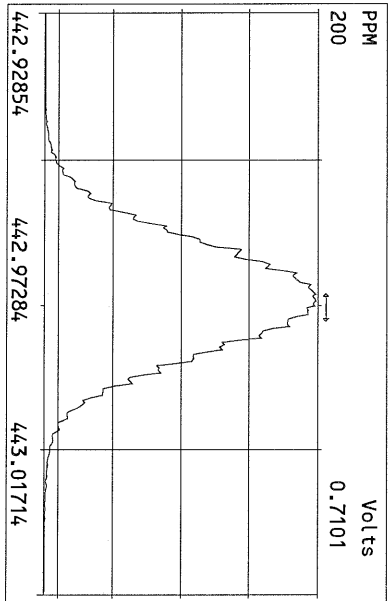
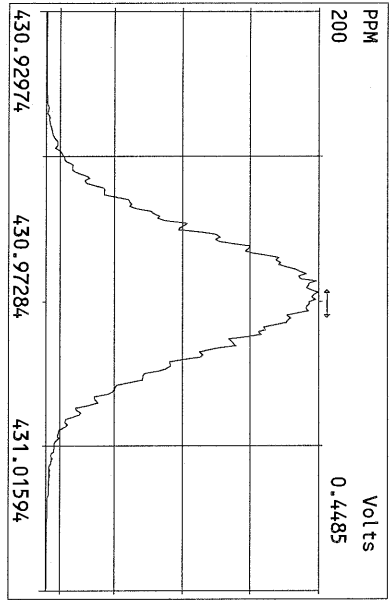
Date: 5/18/11



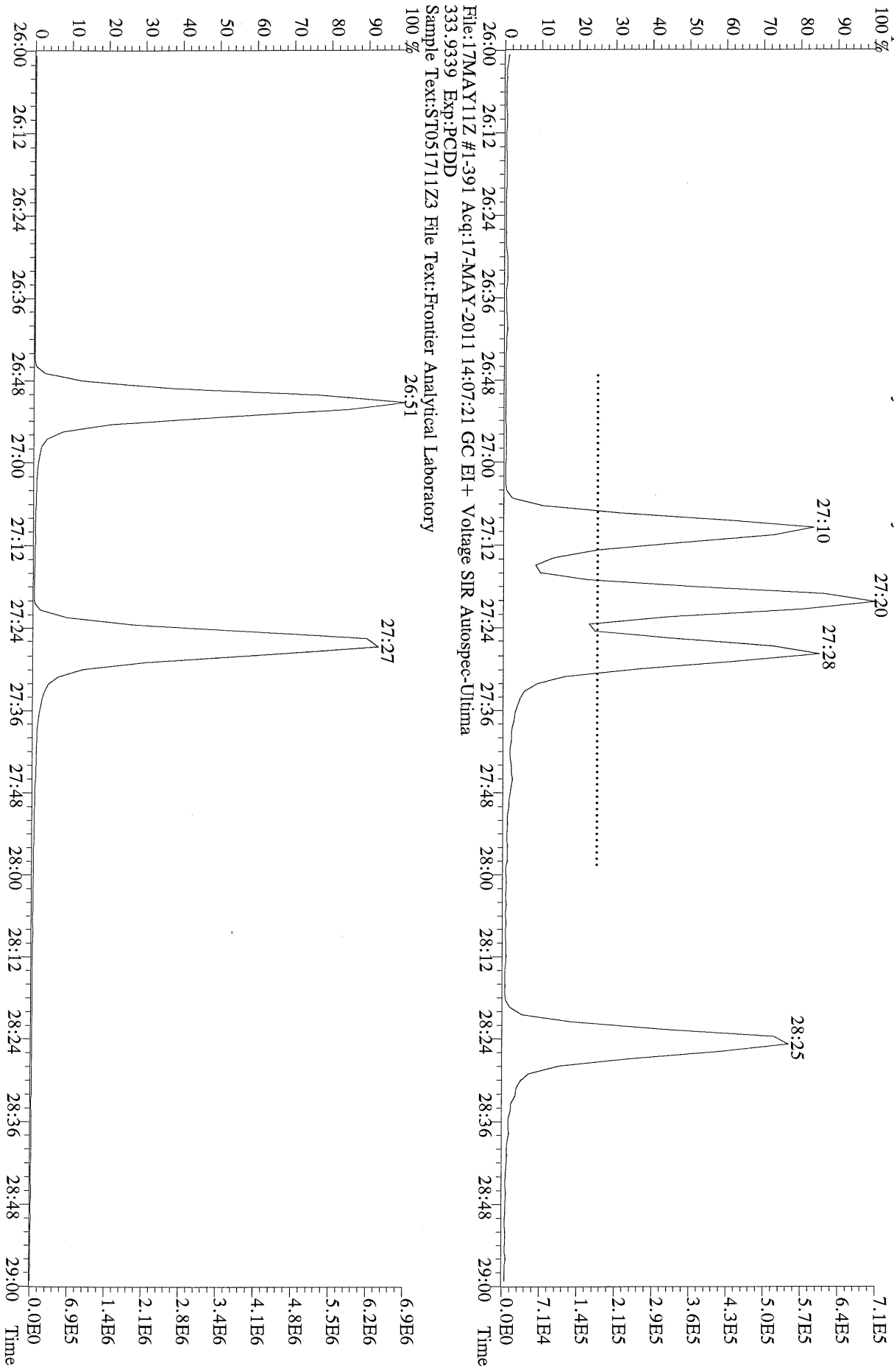




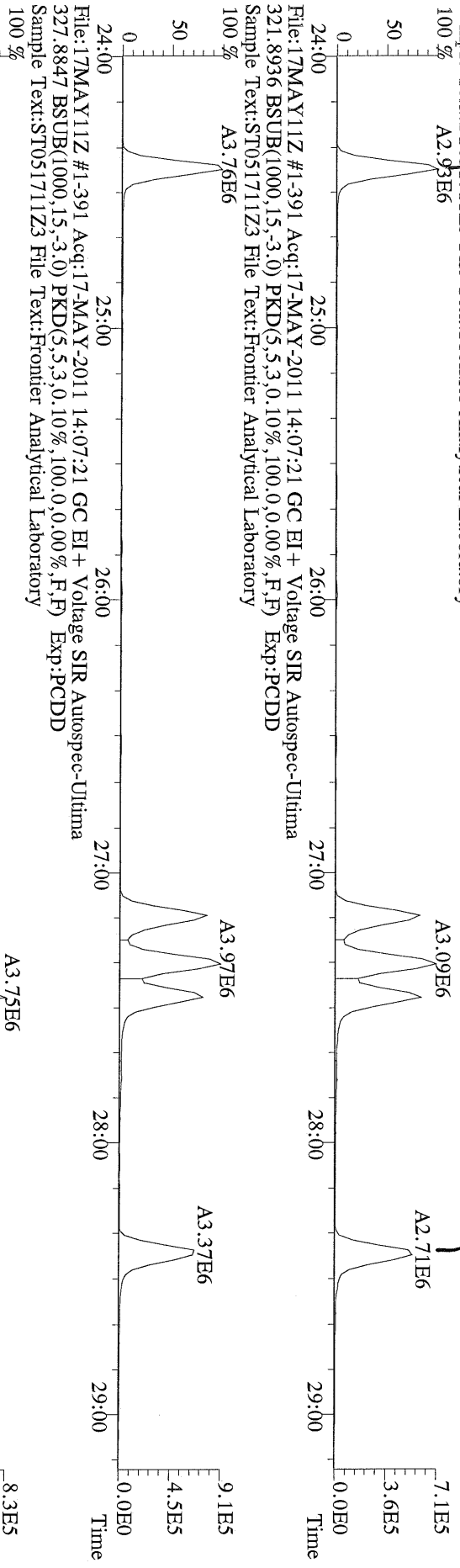




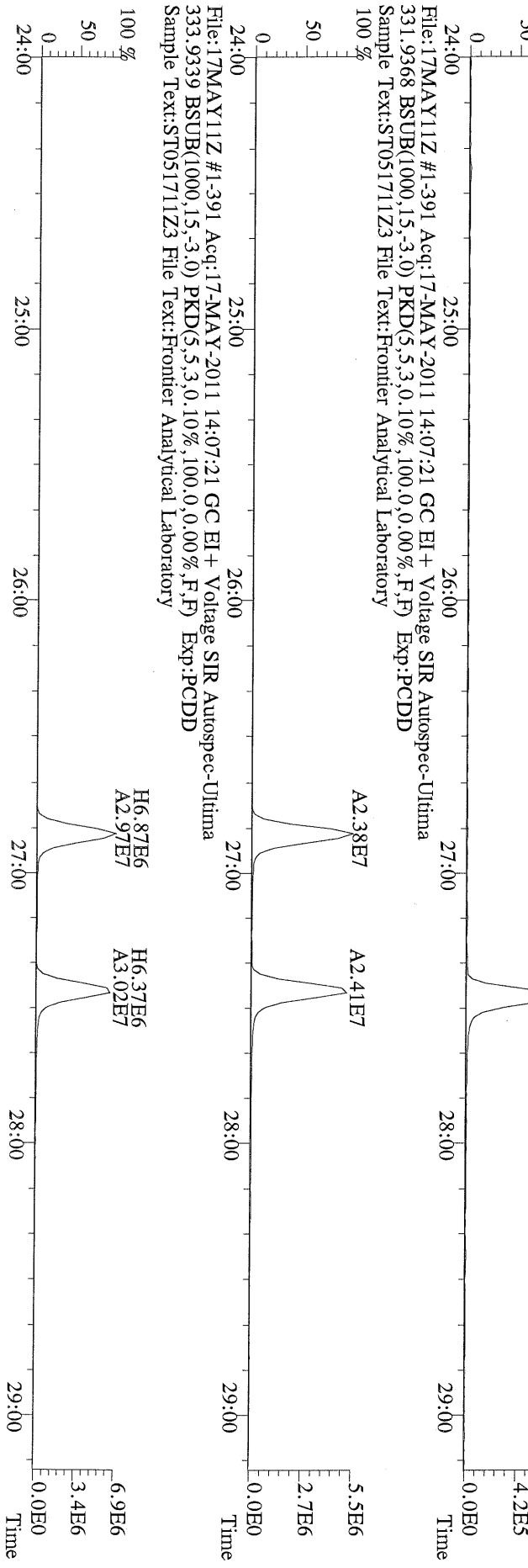
File:17MAY11Z #1-391 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Utima
319.8965 Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %



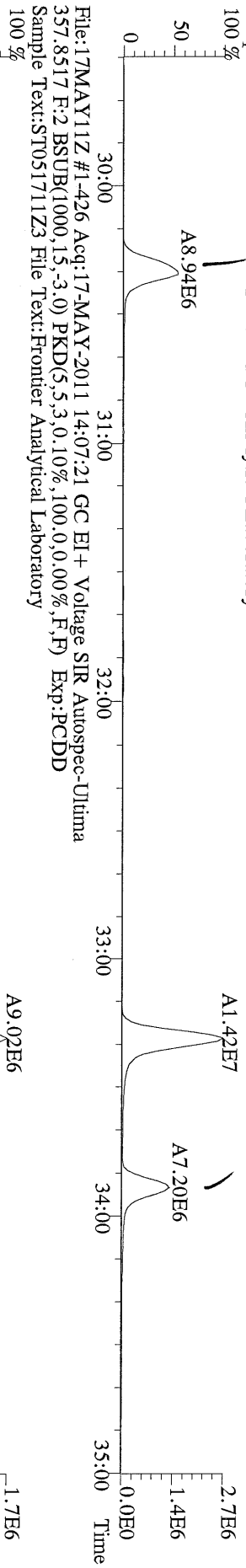
File:17MAY11Z #1-391 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
319.8965 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 % A2.93E6



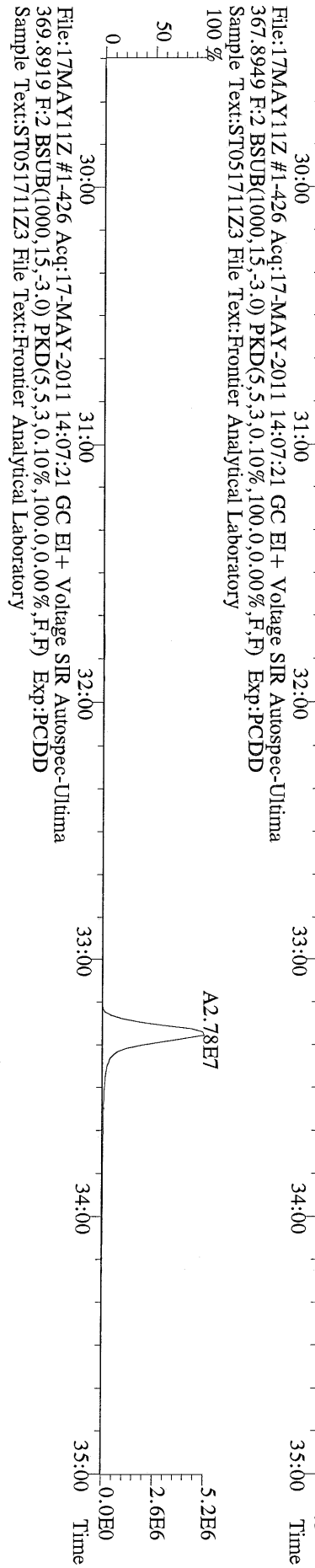
File:17MAY11Z #1-391 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
331.9368 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 % A2.38E7



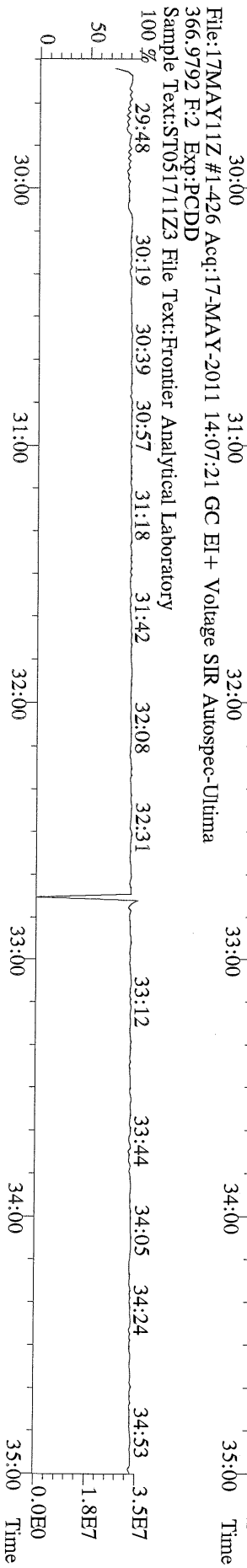
File:17MAY11Z #1-426 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
355.8546 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %



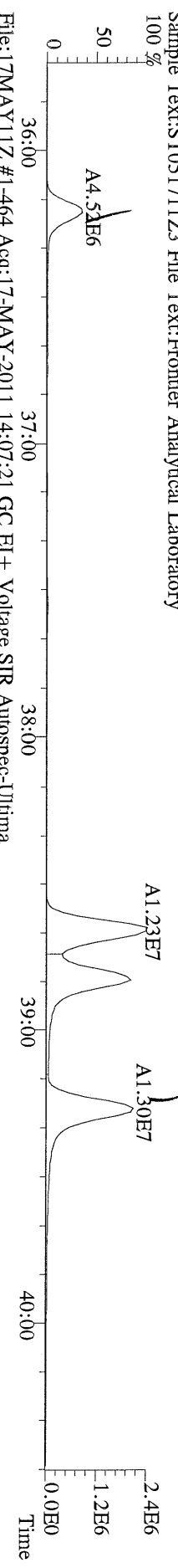
File:17MAY11Z #1-426 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
367.8949 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %



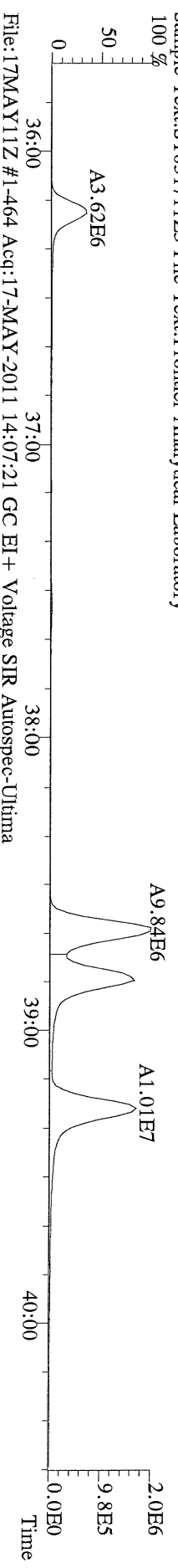
File:17MAY11Z #1-426 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
366.9792 F:2 Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %



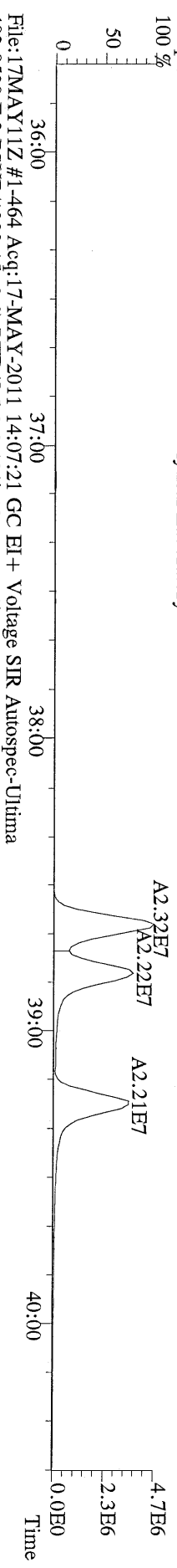
File:17MAY11Z #1-464 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
389.8156 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



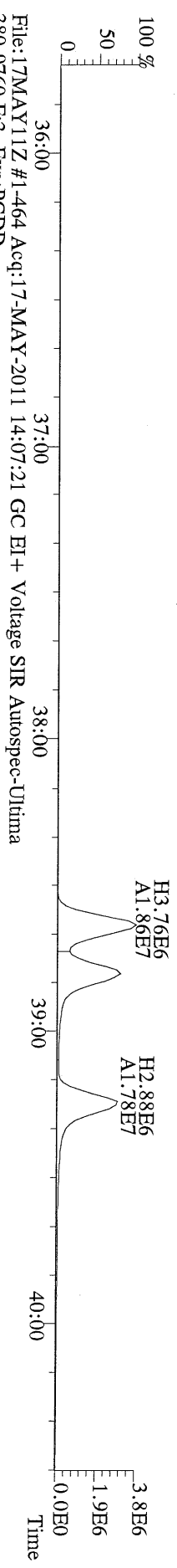
File:17MAY11Z #1-464 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
391.8127 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



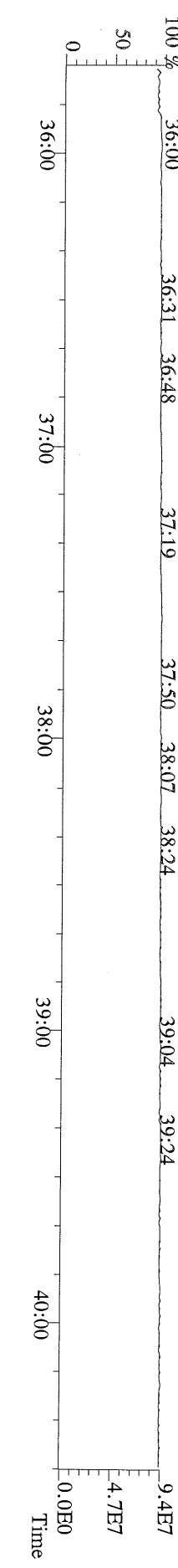
File:17MAY11Z #1-464 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
401.8559 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



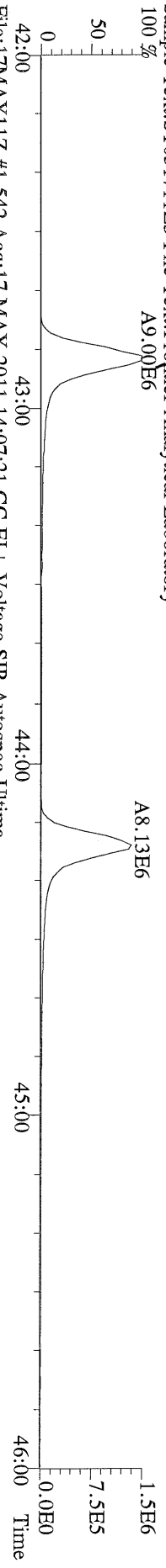
File:17MAY11Z #1-464 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
403.8530 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



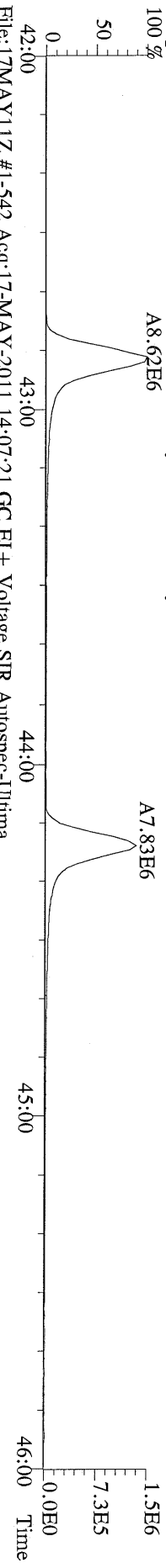
File:17MAY11Z #1-464 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
380.9760 F:3 Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



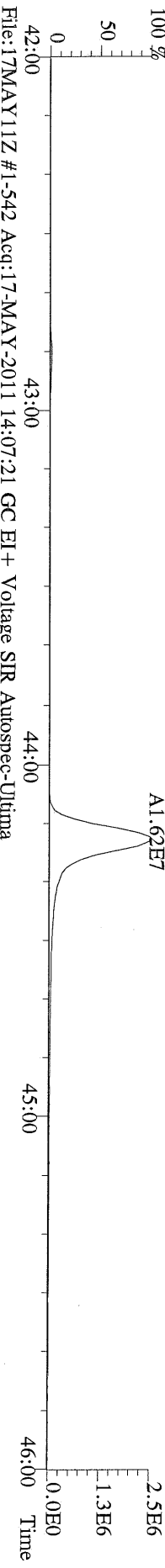
File:17MAY11Z #1-542 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
423.7767 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



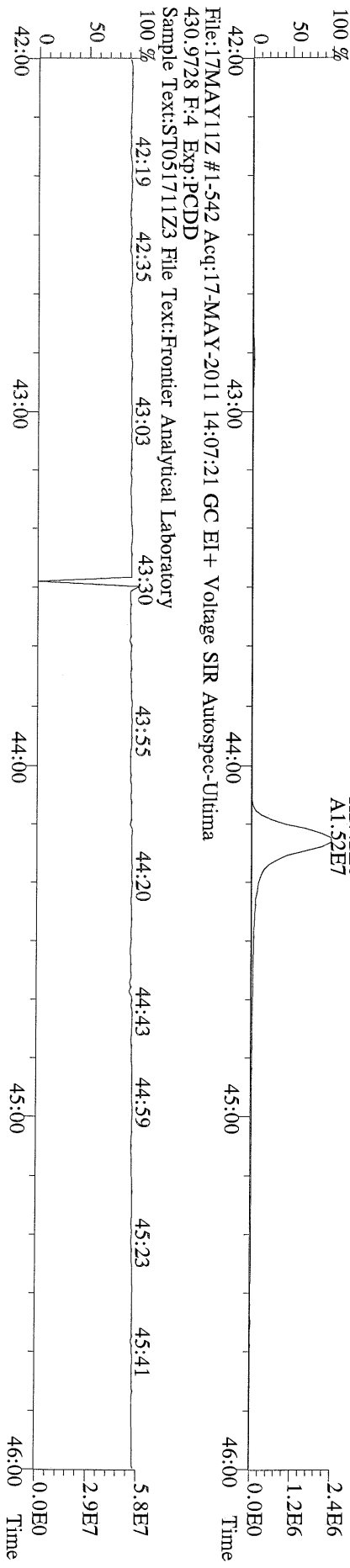
File:17MAY11Z #1-542 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
425.7737 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



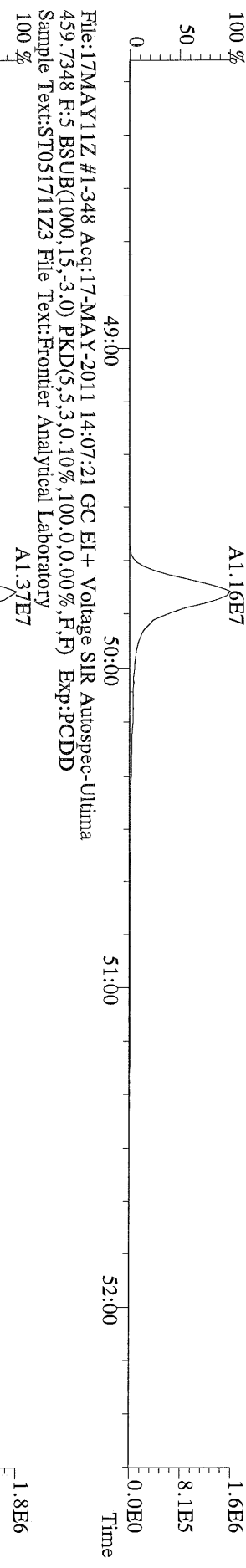
File:17MAY11Z #1-542 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
435.8169 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



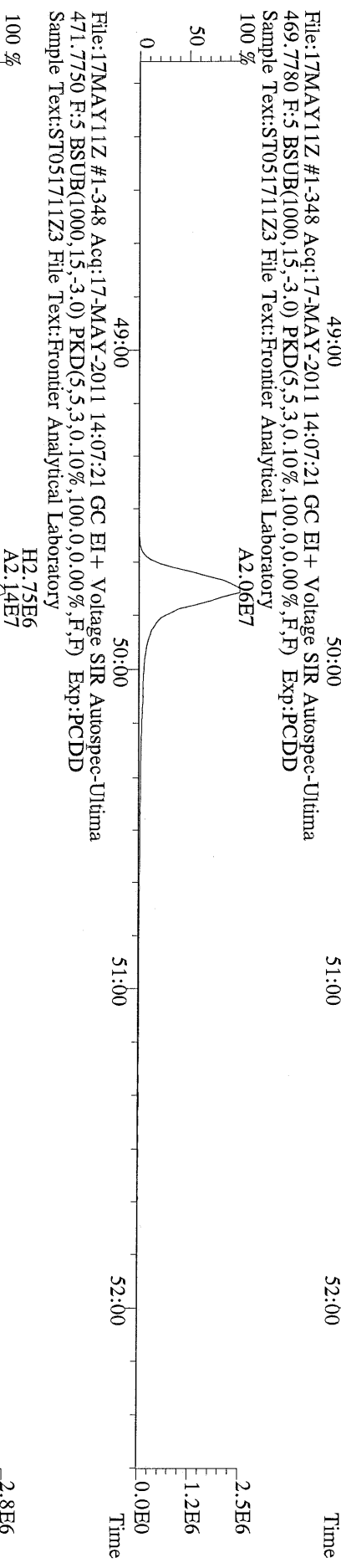
File:17MAY11Z #1-542 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
437.8140 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



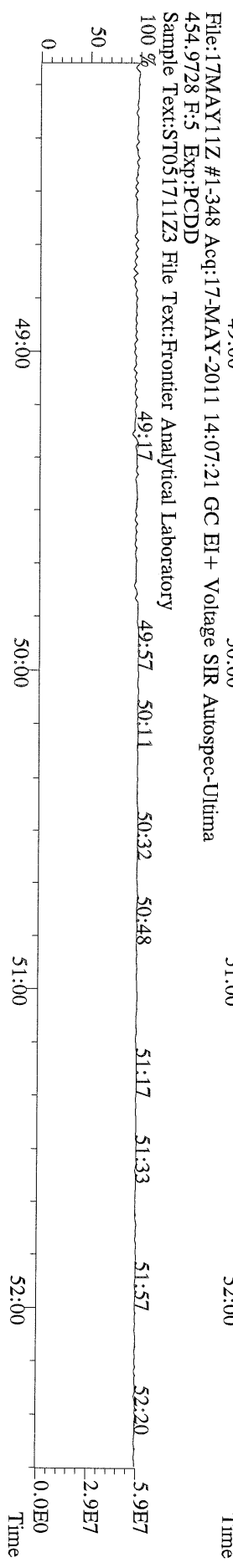
File:17MAY11Z #1-348 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
457.7377 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %



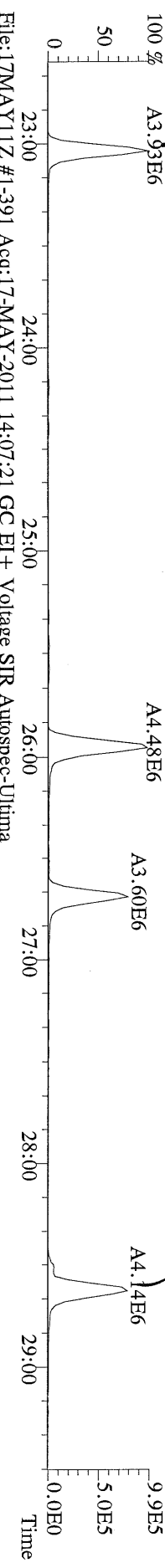
File:17MAY11Z #1-348 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
469.7780 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %



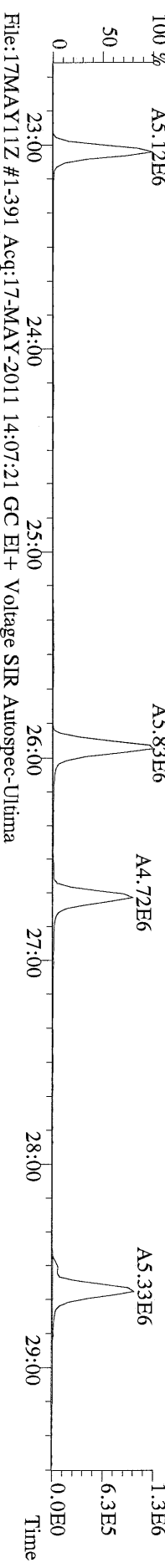
File:17MAY11Z #1-348 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
471.7750 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %



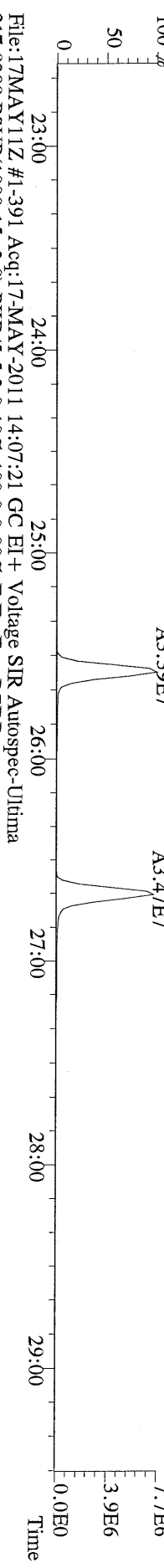
File:17MAY11Z #1-391 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
303.9016 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



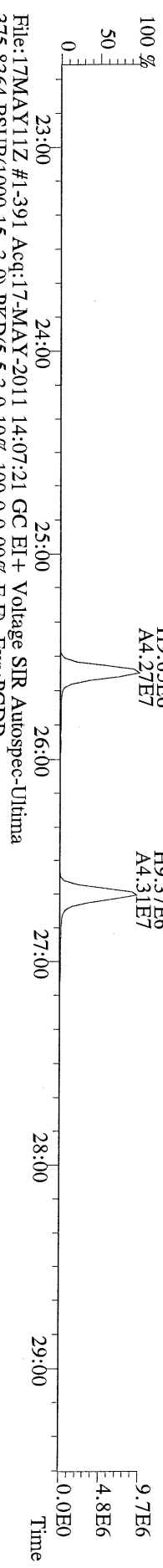
File:17MAY11Z #1-391 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
305.8987 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



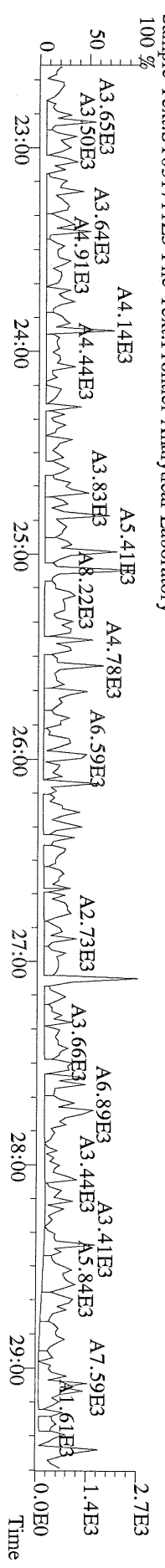
File:17MAY11Z #1-391 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
315.9419 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



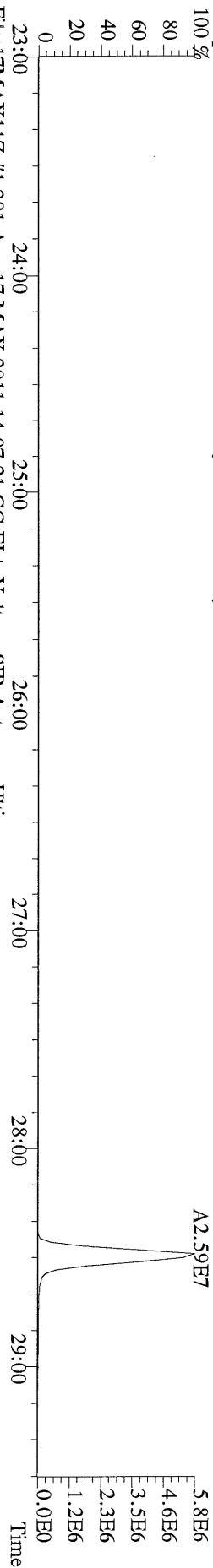
File:17MAY11Z #1-391 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
317.9389 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



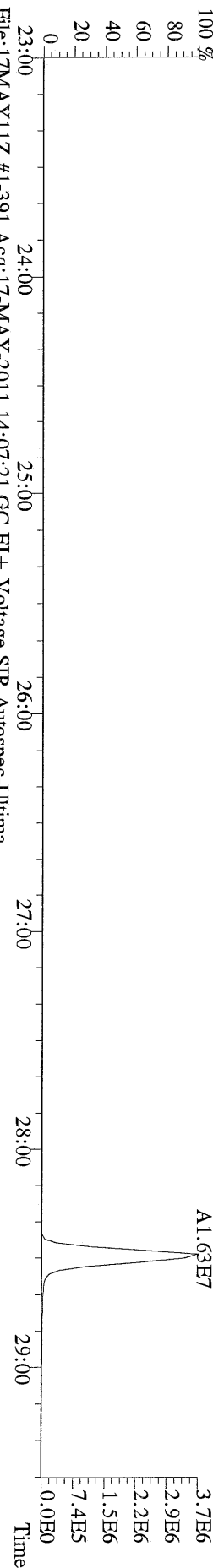
File:17MAY11Z #1-391 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
375.8364 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



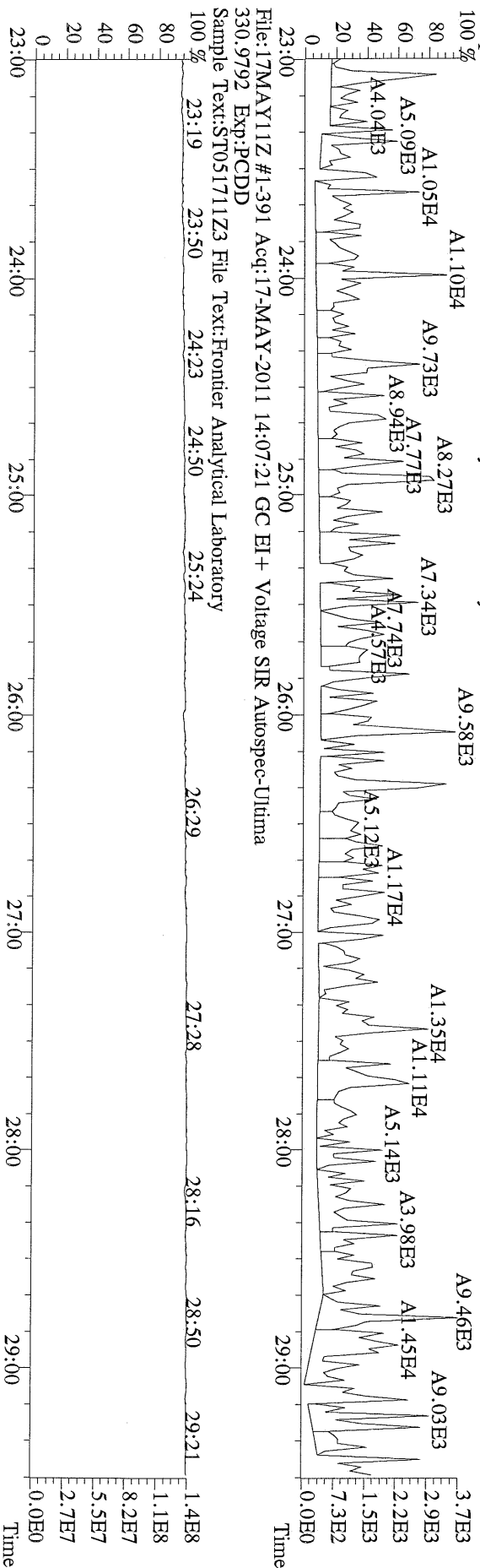
File:17MAY11Z #1-391 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
 100 %



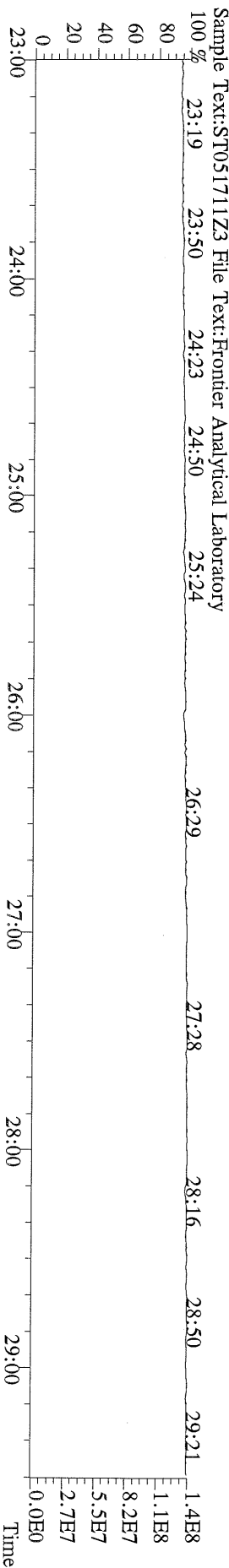
File:17MAY11Z #1-391 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
 100 %



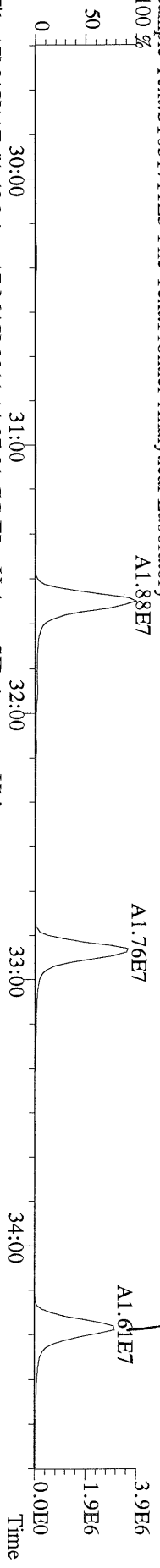
File:17MAY11Z #1-391 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
 100 %



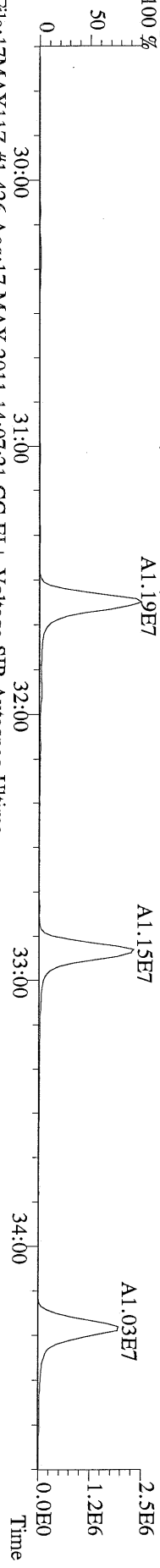
File:17MAY11Z #1-391 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 Exp:PCDD
 Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
 100 %



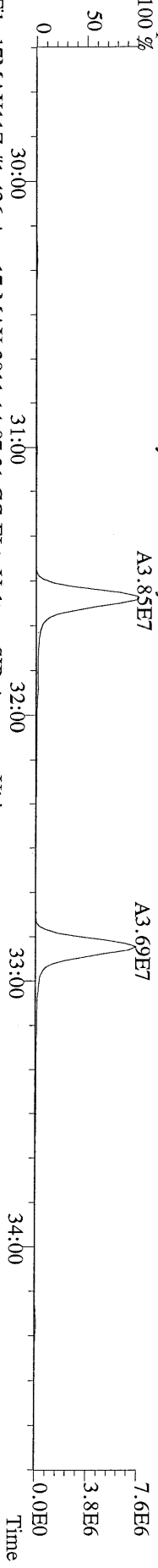
File:17MAY11Z #1-426 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
339.8597 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



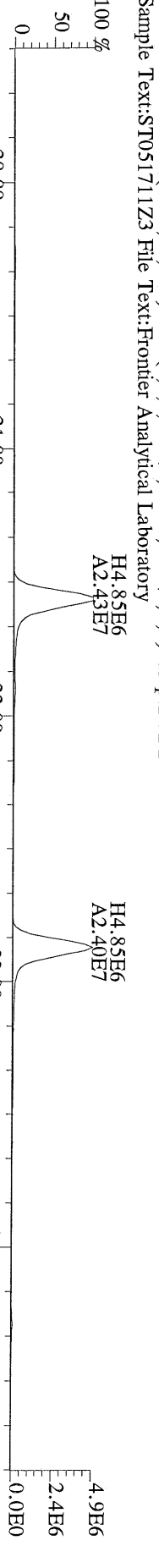
File:17MAY11Z #1-426 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
341.8568 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



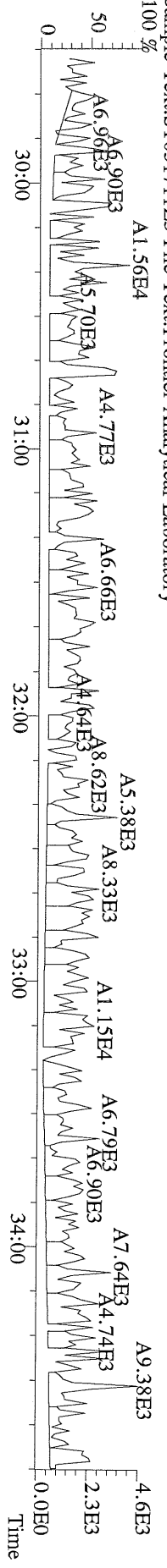
File:17MAY11Z #1-426 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
351.9000 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



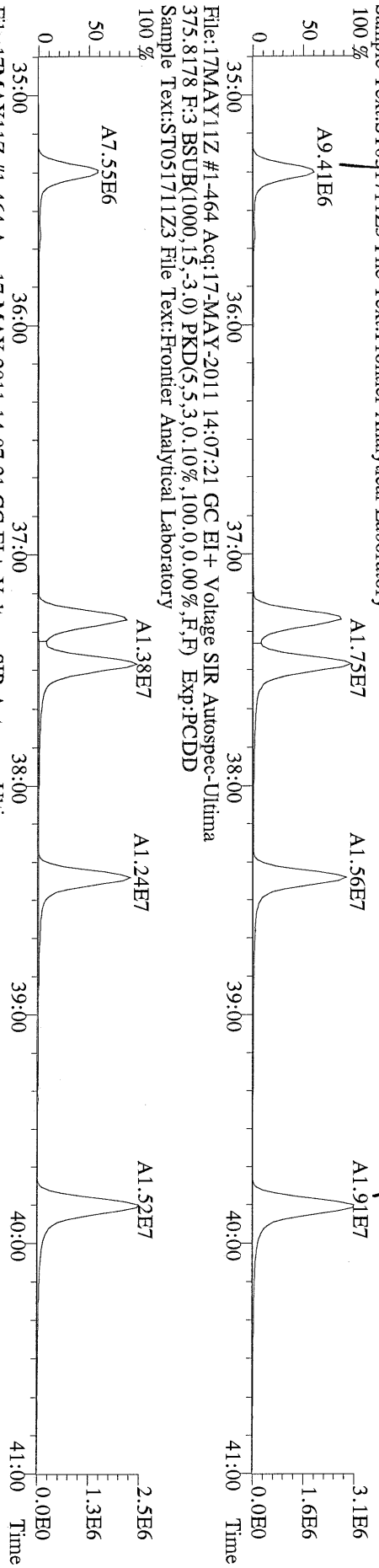
File:17MAY11Z #1-426 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
353.8970 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



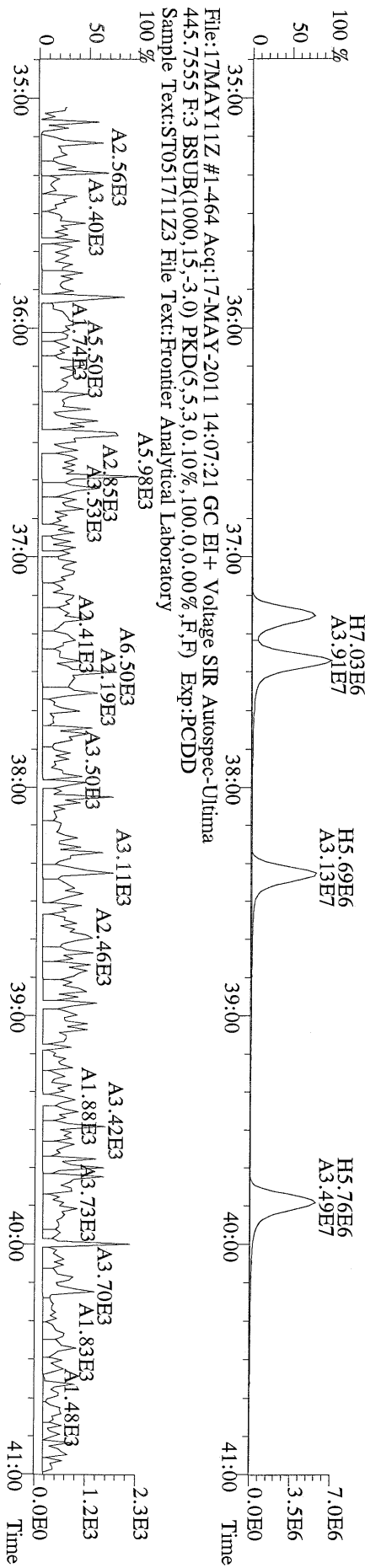
File:17MAY11Z #1-426 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
409.7974 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



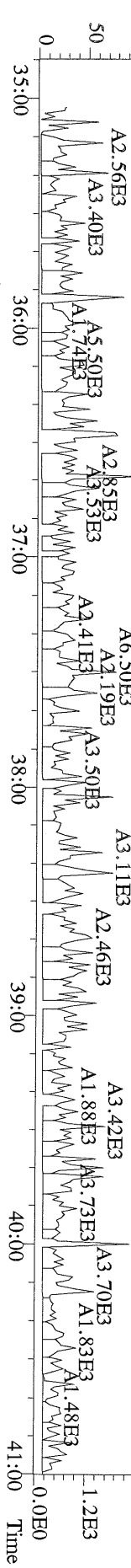
File:17MAY11Z #1-464 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
373.8207 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



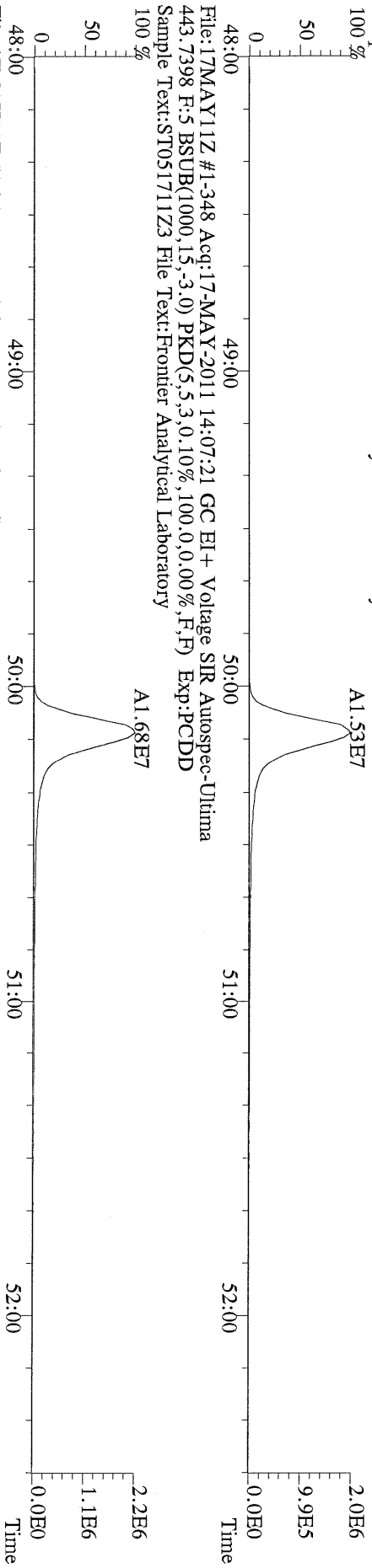
File:17MAY11Z #1-464 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
383.8639 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



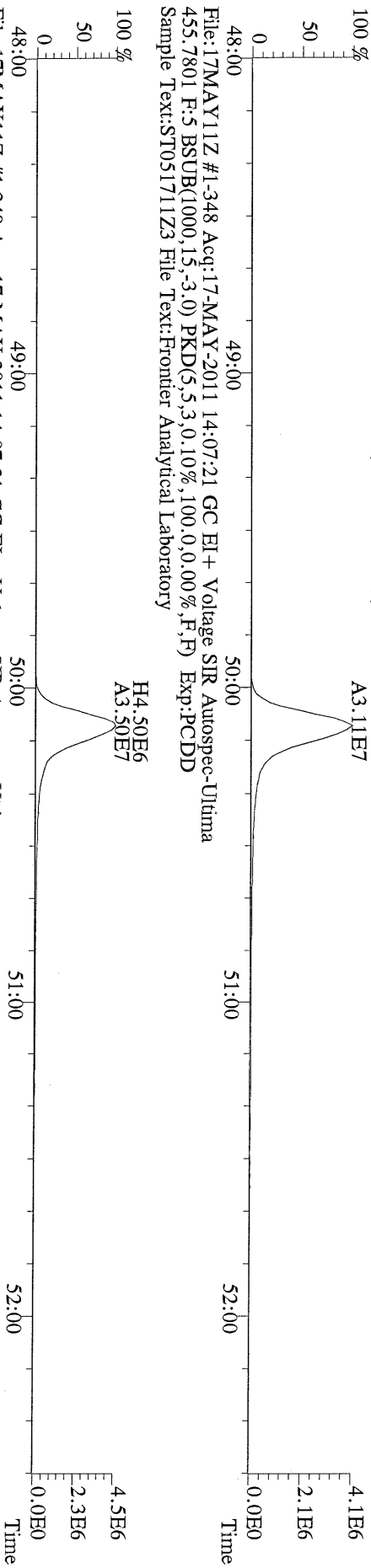
File:17MAY11Z #1-464 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
445.7555 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



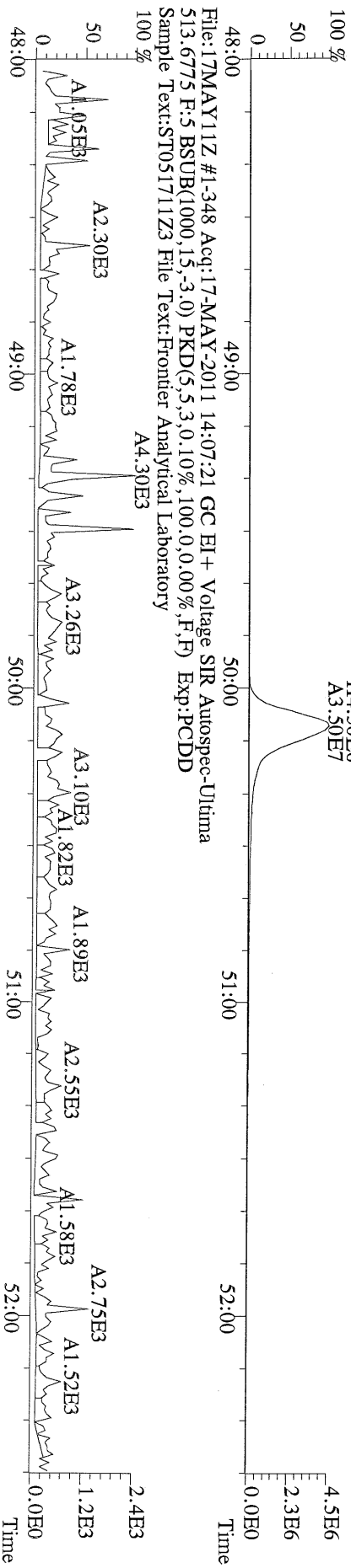
File:17MAY11Z #1-348 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
441.7428 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %



File:17MAY11Z #1-348 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
453.7831 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %

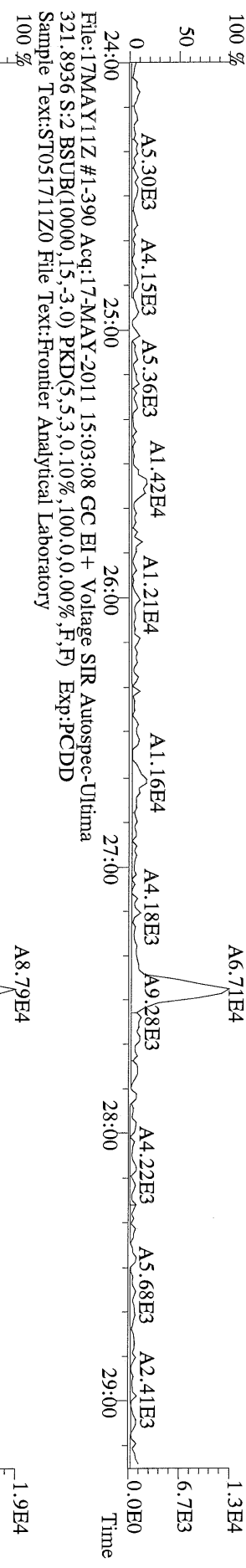


File:17MAY11Z #1-348 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
455.7801 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



File:17MAY11Z #1-348 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Ultima
513.6775 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %

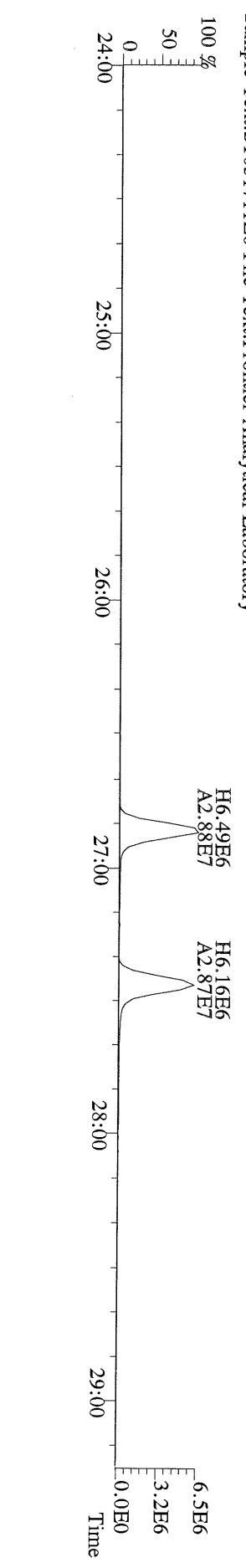
File:17MAY11Z #1-390 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
100 %



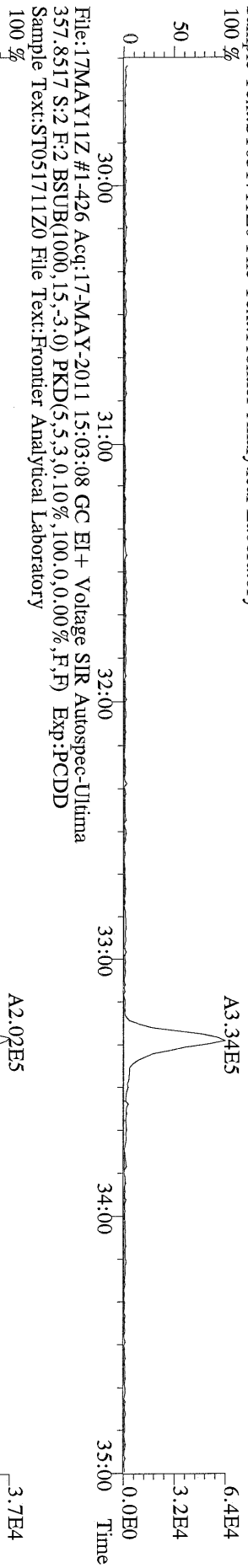
File:17MAY11Z #1-390 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
100 %



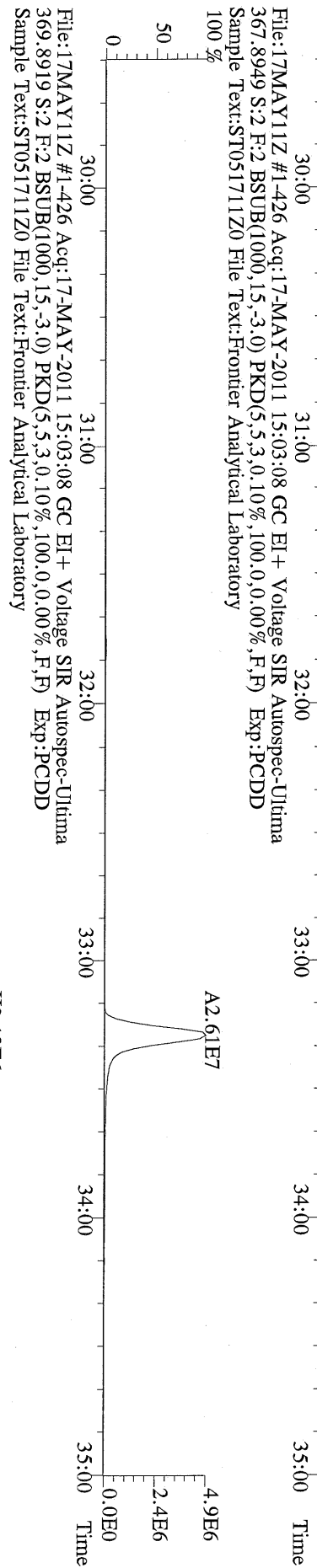
File:17MAY11Z #1-390 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
100 %



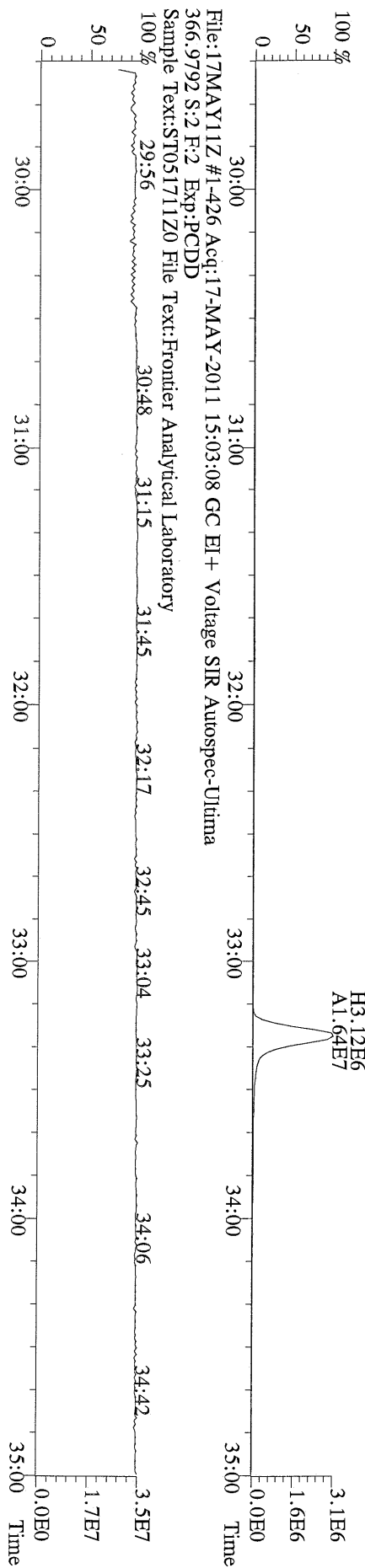
File:17MAY11Z #1-426 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
100 %



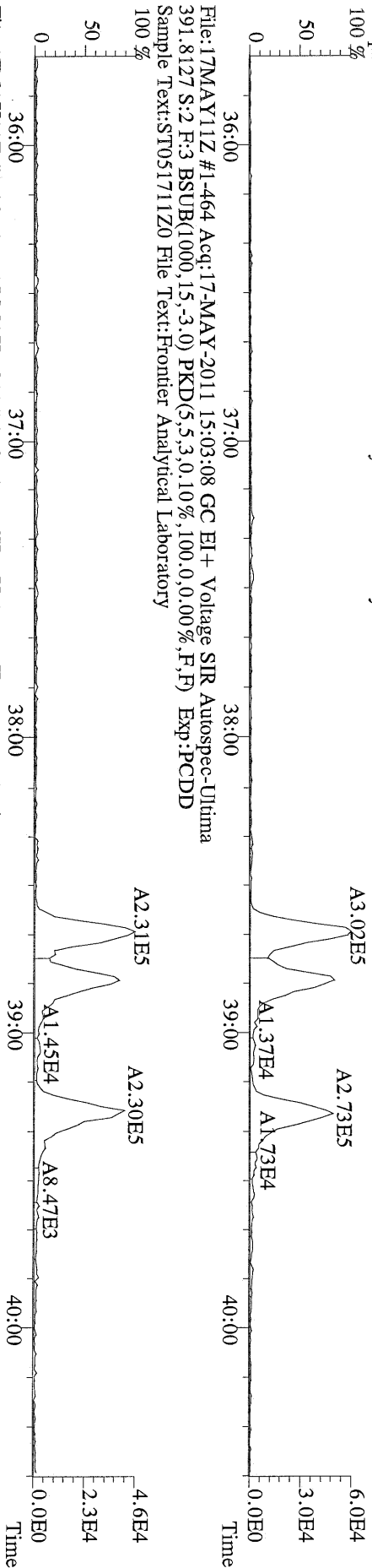
File:17MAY11Z #1-426 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
100 %



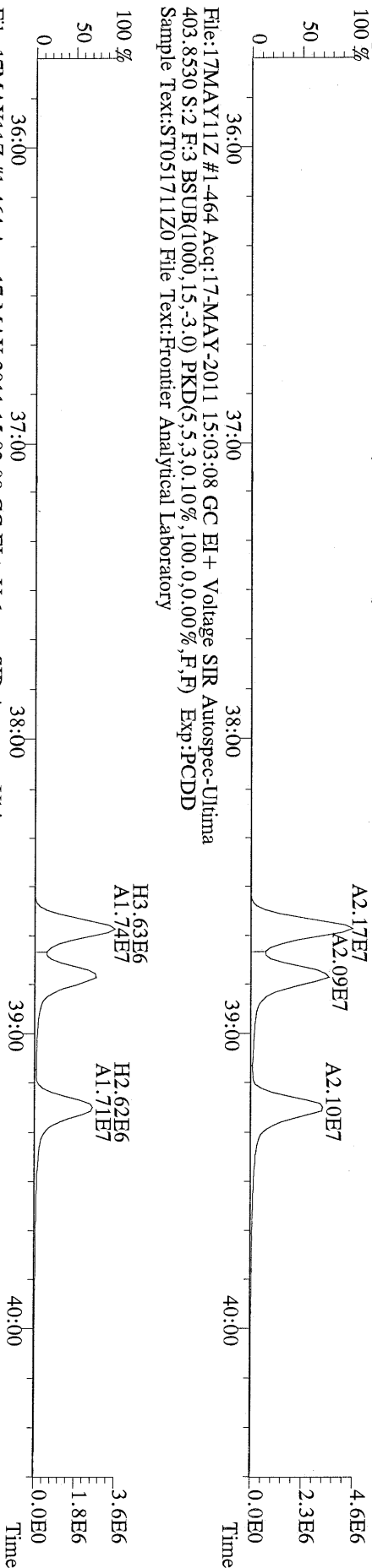
File:17MAY11Z #1-426 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
100 %



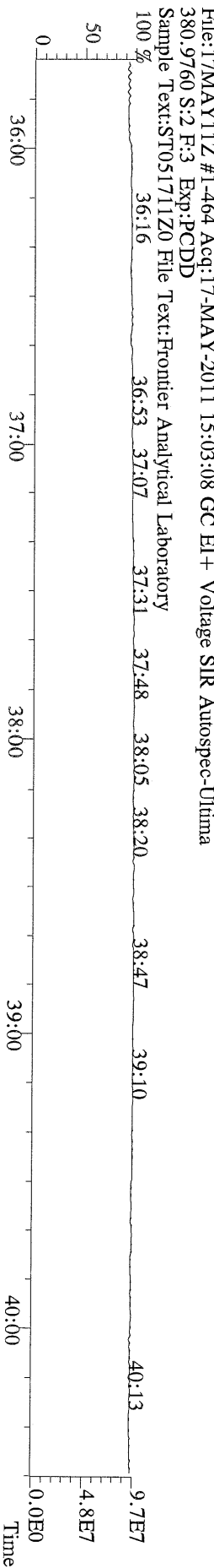
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:2 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
100 %



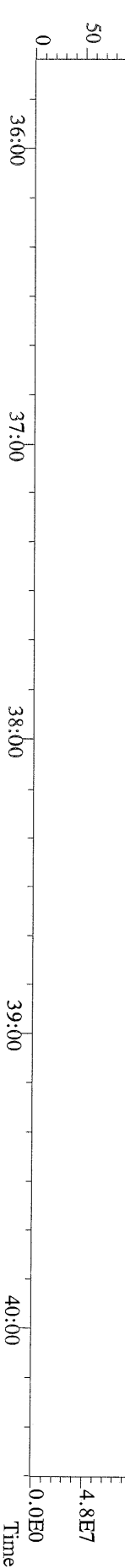
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:2 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
100 %



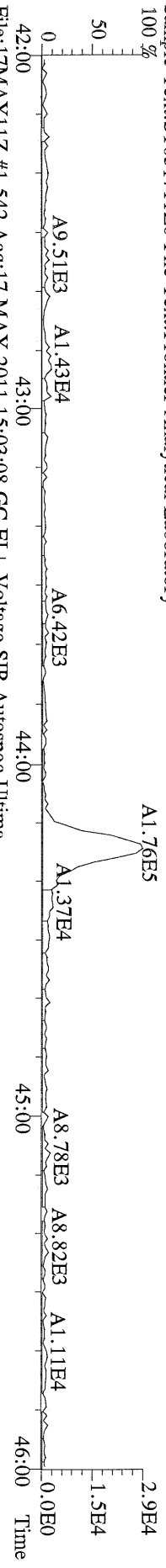
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:2 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



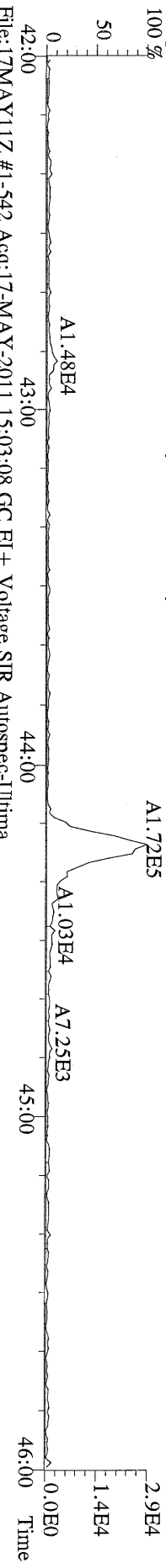
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:2 F:3 Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
100 %



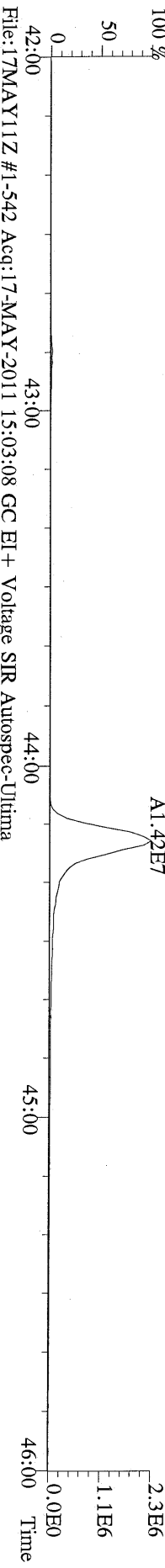
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



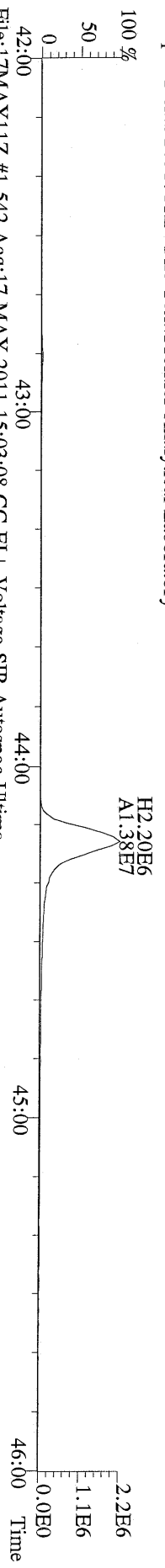
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



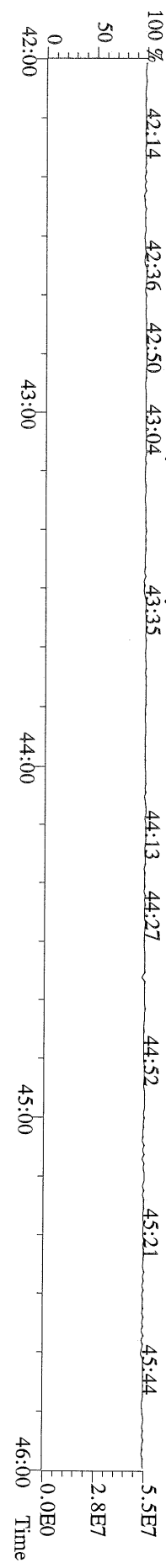
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



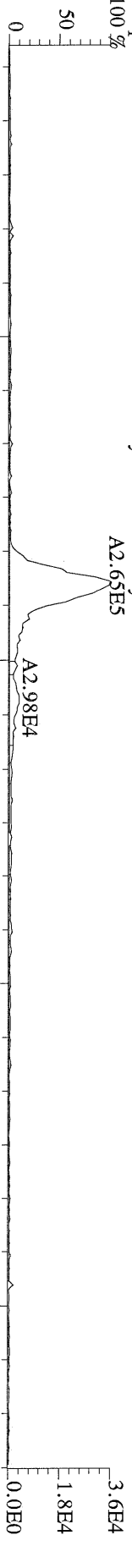
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



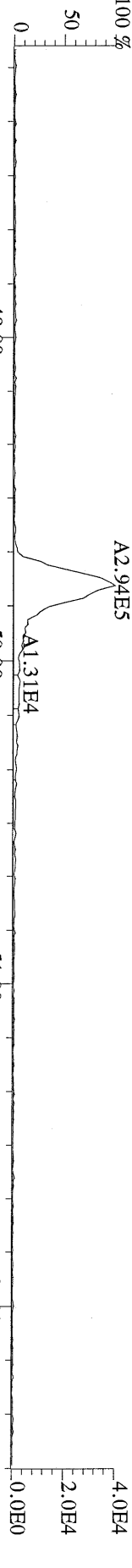
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:2 F:4 Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



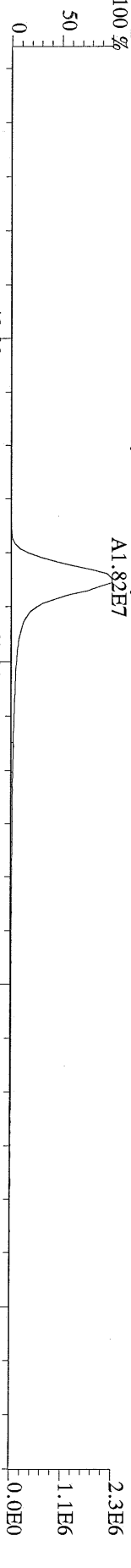
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:2 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
100 %



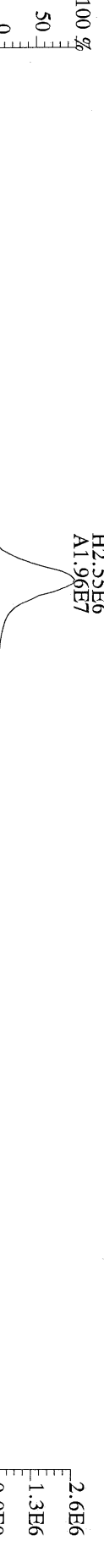
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:2 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
100 %



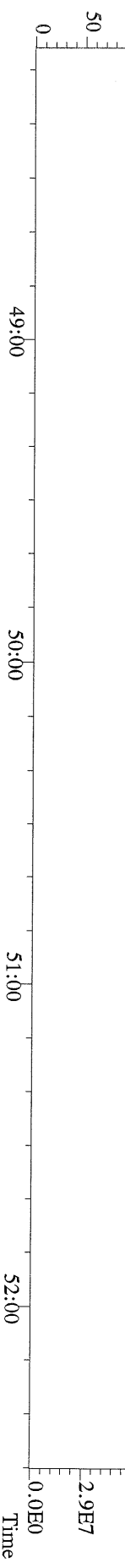
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:2 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
100 %



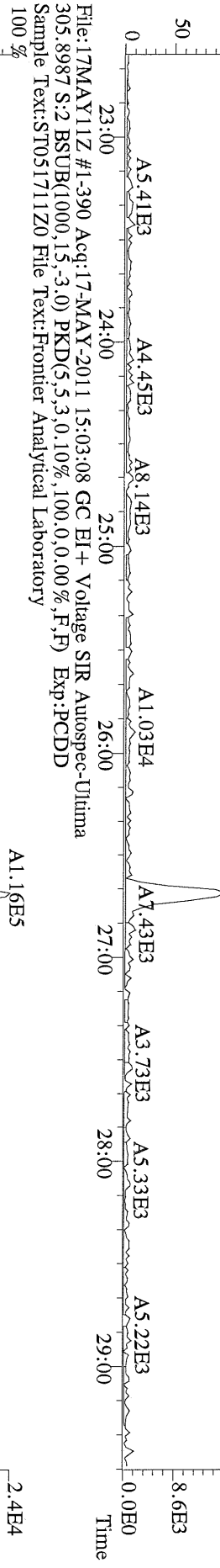
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:2 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



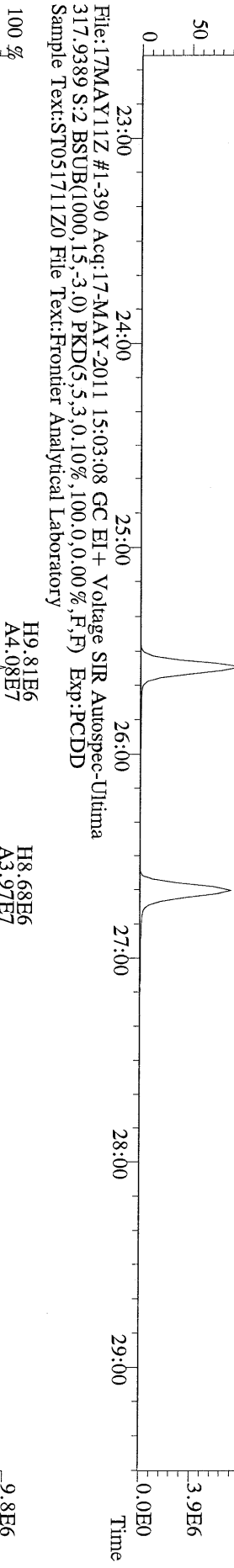
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:2 F:5 Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



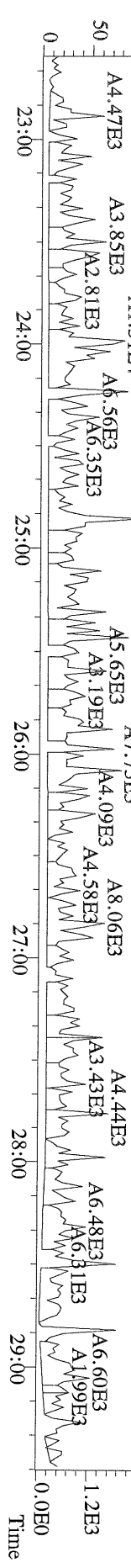
File:17MAY11Z #1-390 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Utima
 303.9016 S:2 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



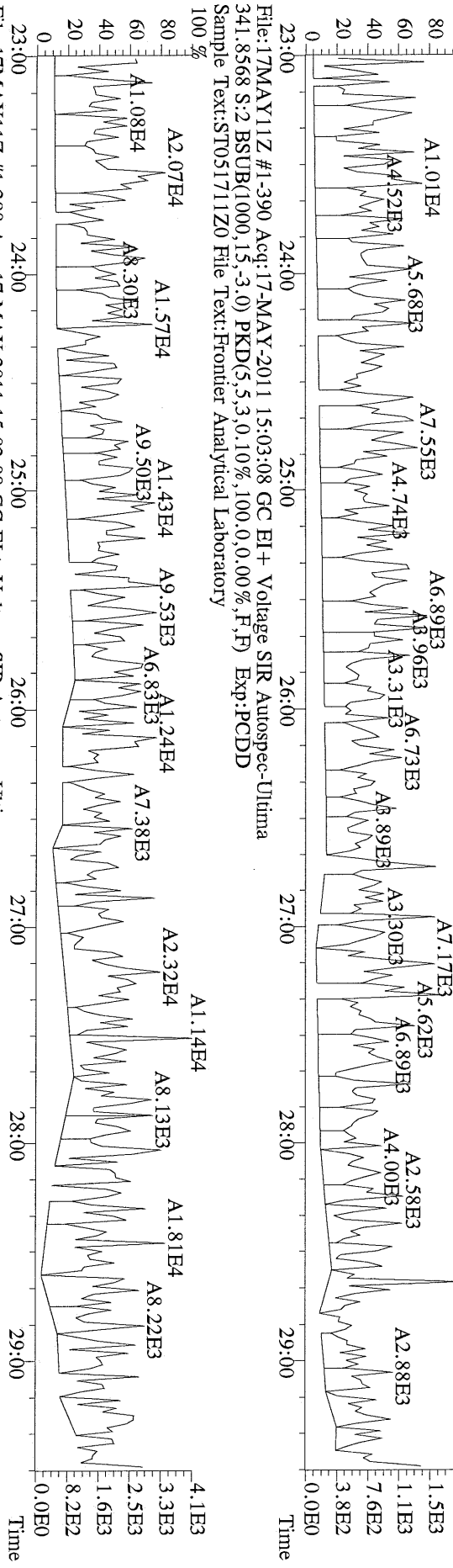
File:17MAY11Z #1-390 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Utima
 315.9419 S:2 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



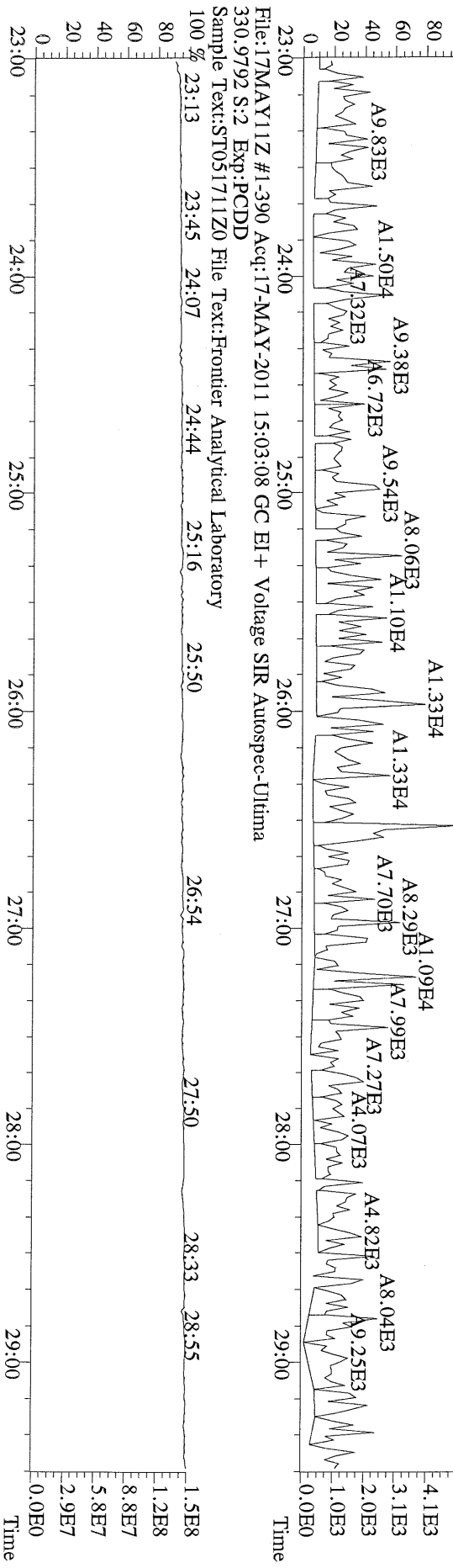
File:17MAY11Z #1-390 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Utima
 317.9389 S:2 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



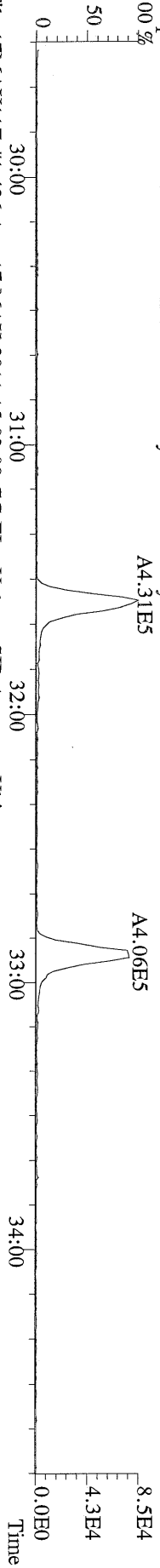
File:17MAY11Z #1-390 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:2 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



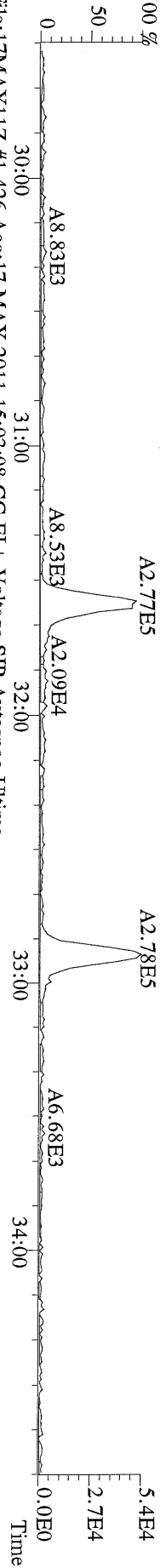
File:17MAY11Z #1-390 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:2 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



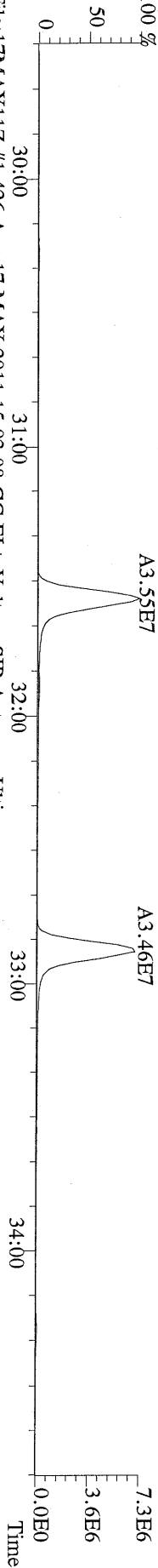
File:17MAY11Z #1-426 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



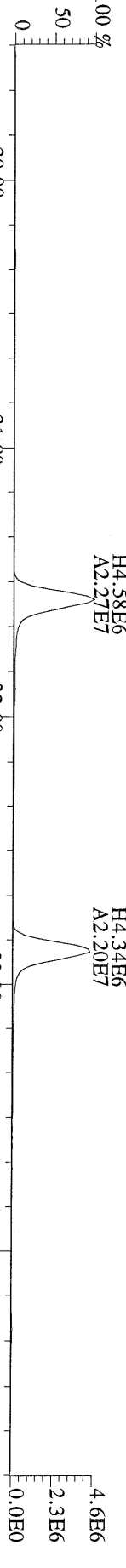
File:17MAY11Z #1-426 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



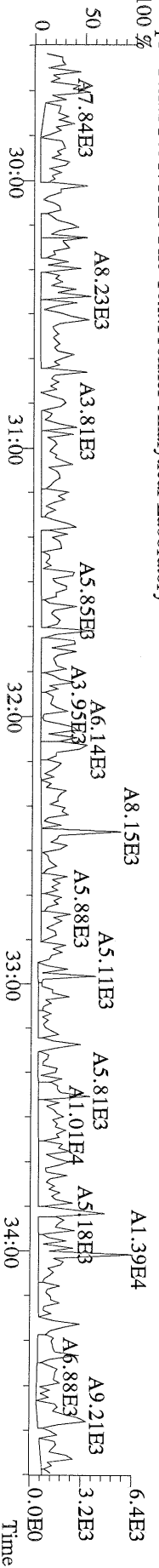
File:17MAY11Z #1-426 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



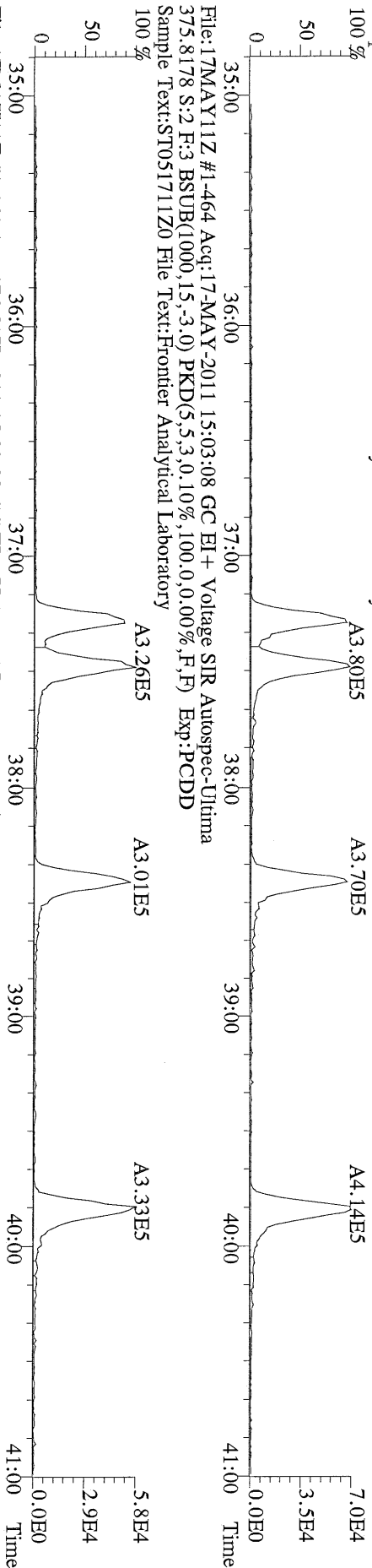
File:17MAY11Z #1-426 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



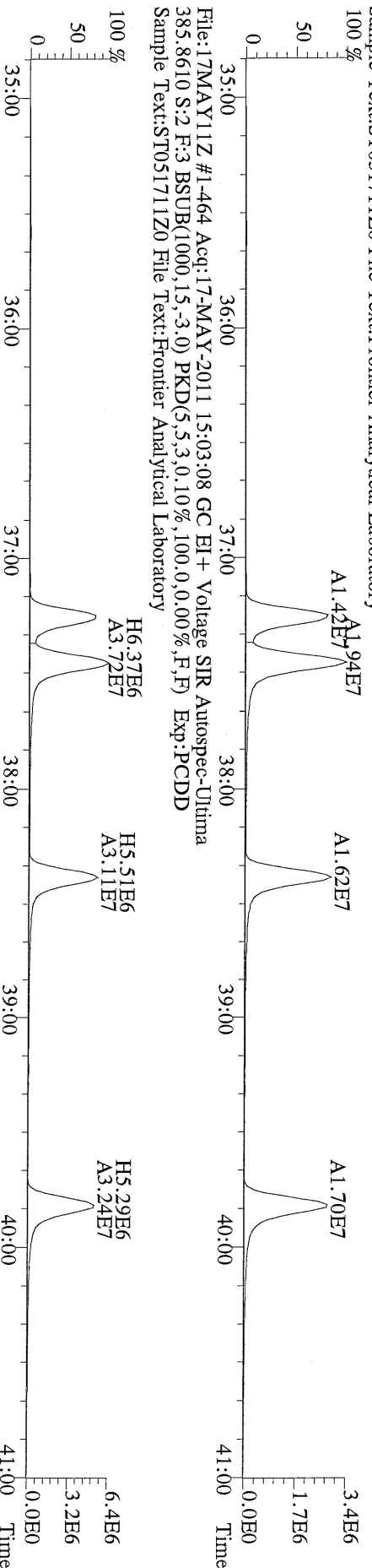
File:17MAY11Z #1-426 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



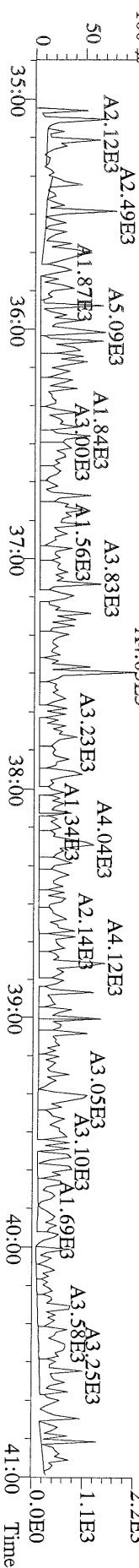
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Utima
 373.8207 S:2 F:3 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



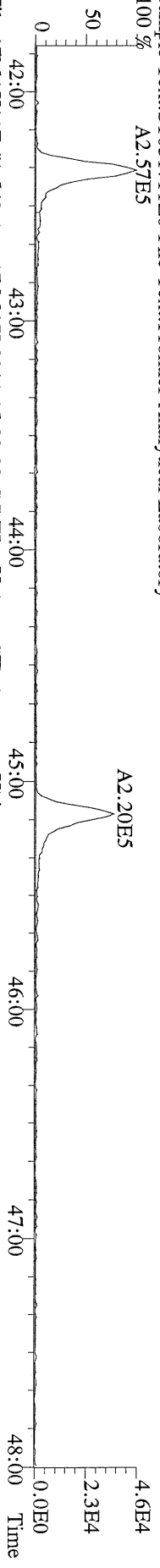
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Utima
 383.8639 S:2 F:3 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



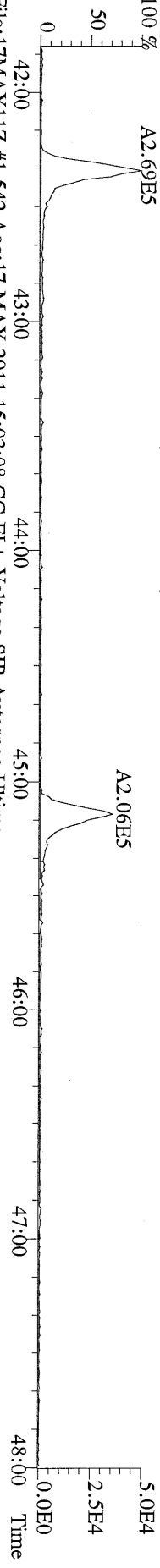
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Utima
 445.7555 S:2 F:3 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



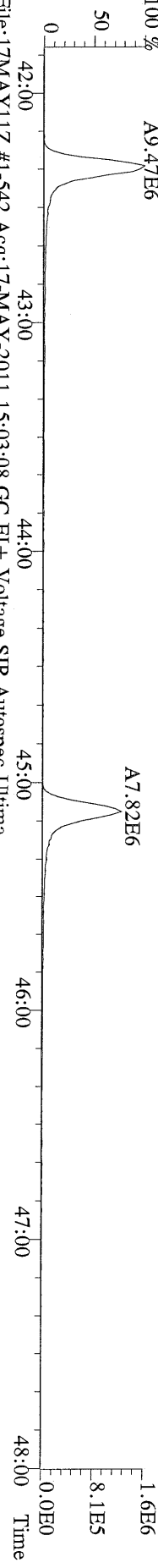
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



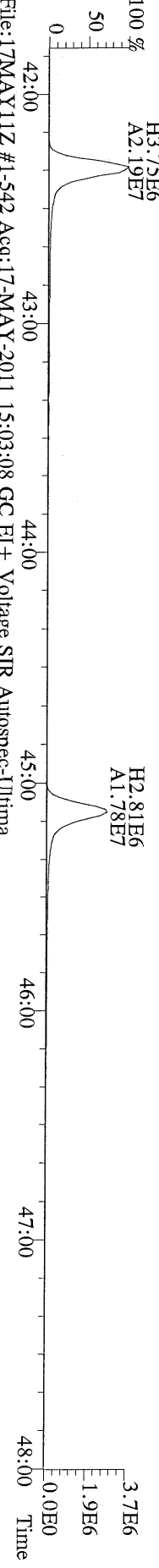
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



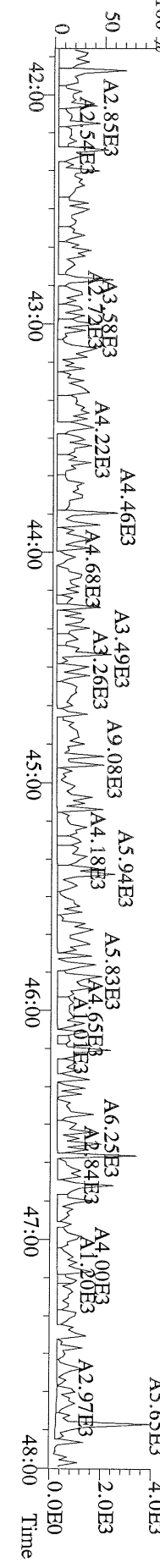
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



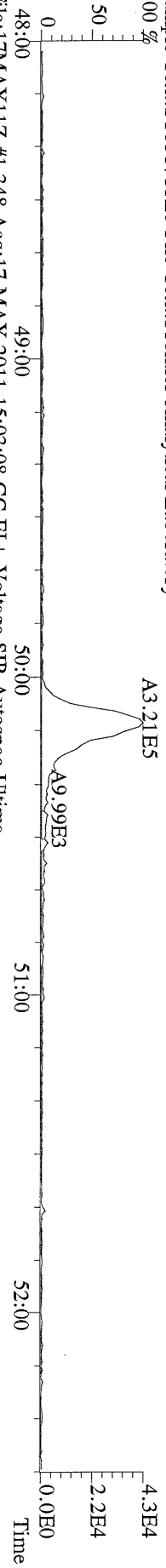
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



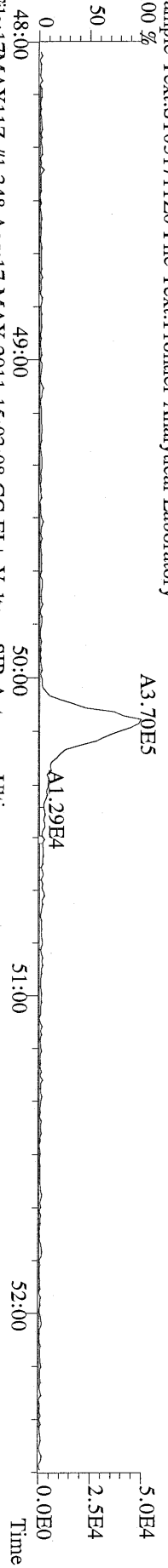
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



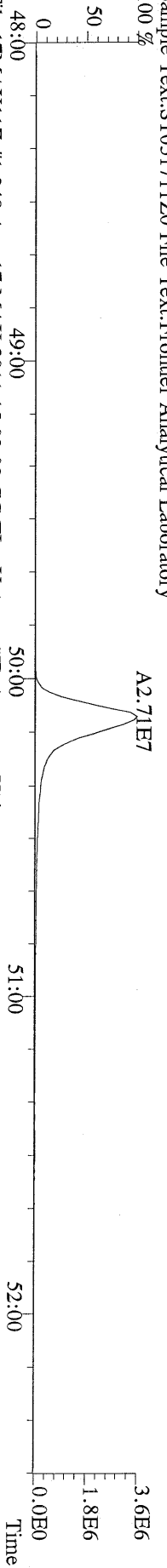
File: 17MAY11Z #1-348 Acq: 17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S.2 F.5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



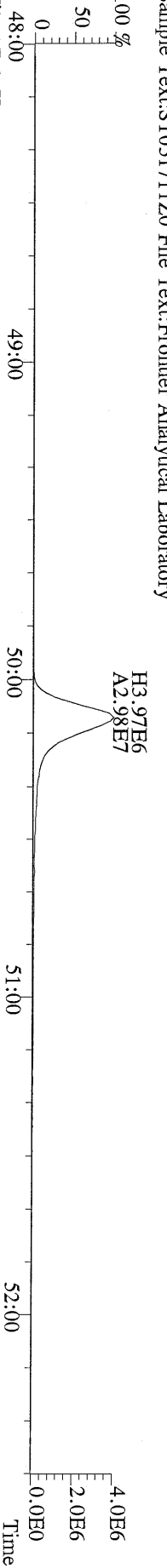
File: 17MAY11Z #1-348 Acq: 17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S.2 F.5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



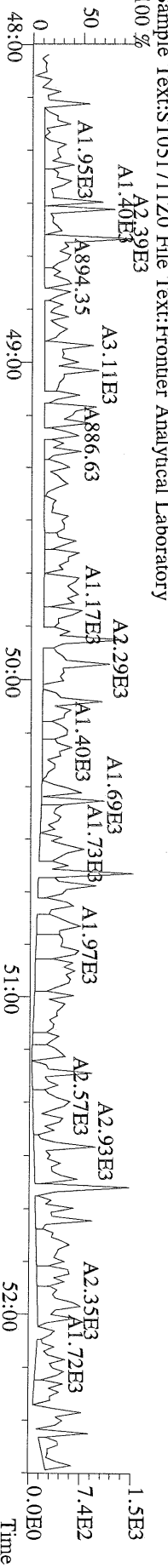
File: 17MAY11Z #1-348 Acq: 17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S.2 F.5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



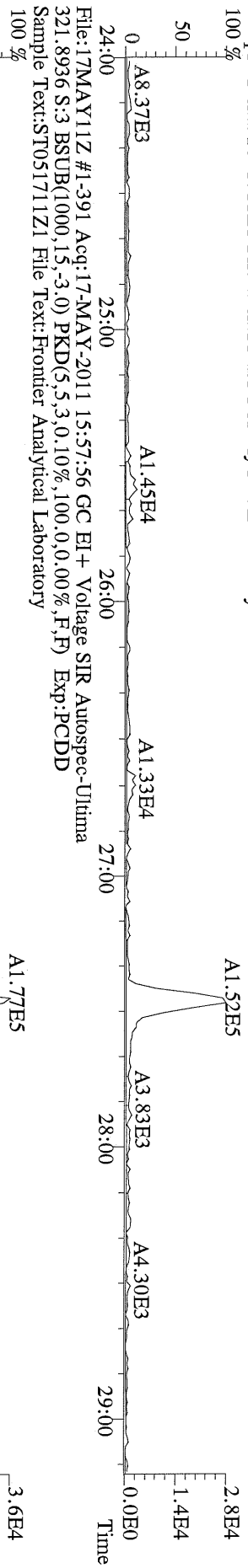
File: 17MAY11Z #1-348 Acq: 17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S.2 F.5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



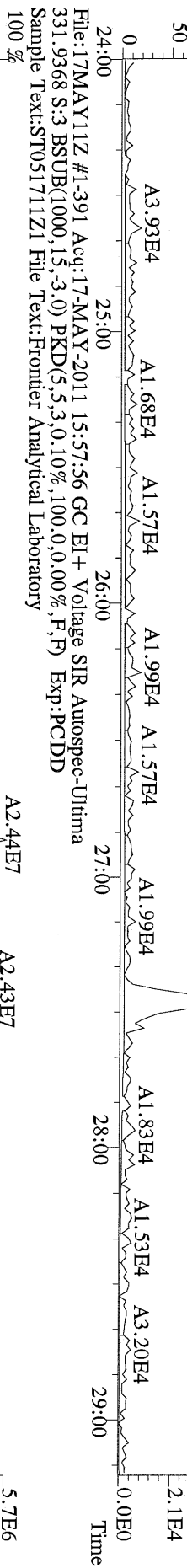
File: 17MAY11Z #1-348 Acq: 17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S.2 F.5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



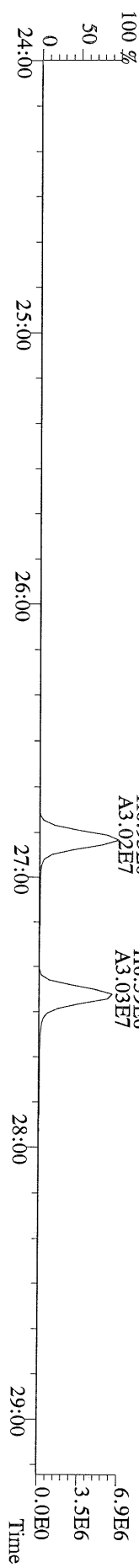
File:17MAY11Z #1-391 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:3 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory
100 %



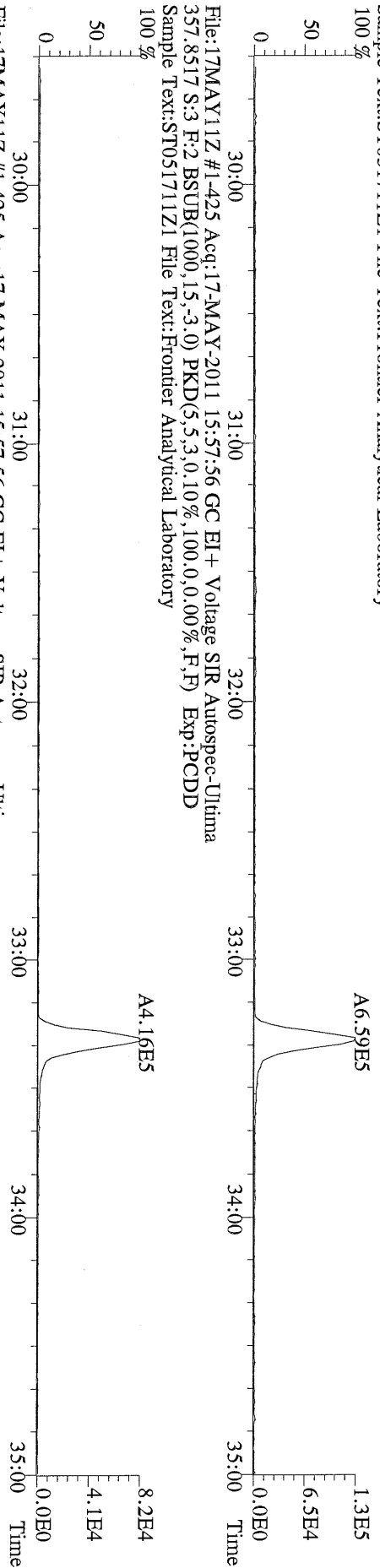
File:17MAY11Z #1-391 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:3 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory
100 %



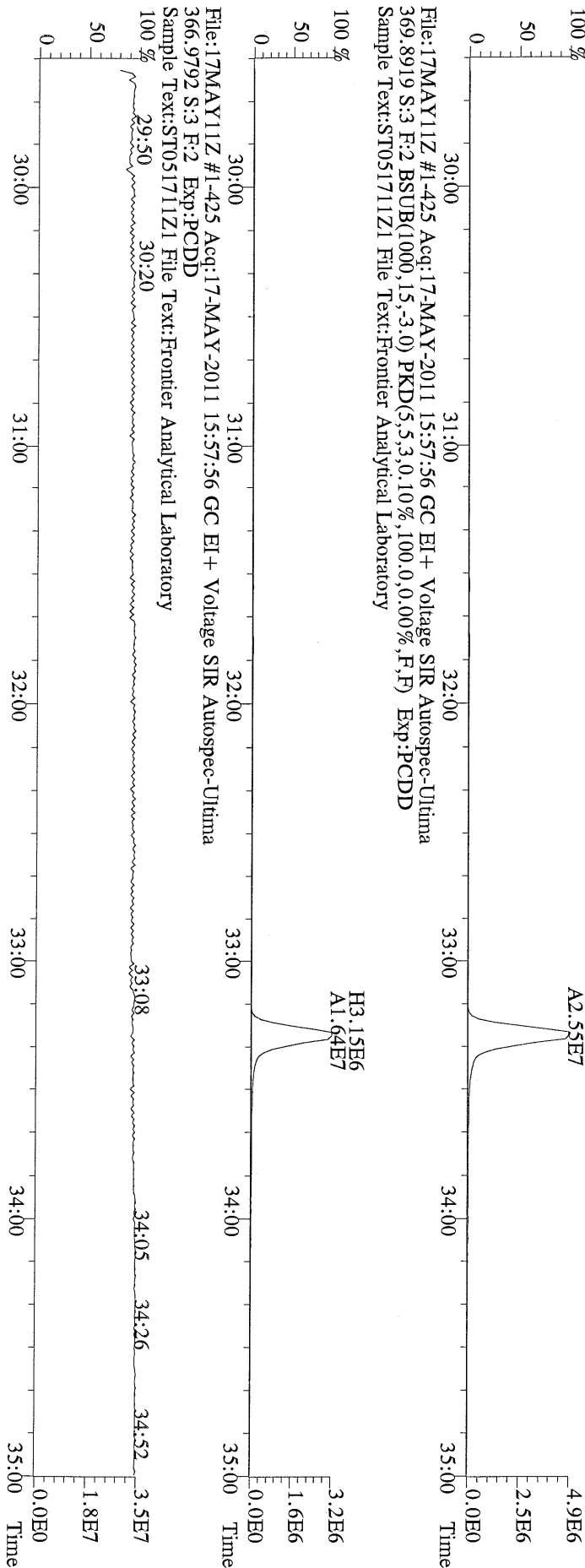
File:17MAY11Z #1-391 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:3 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



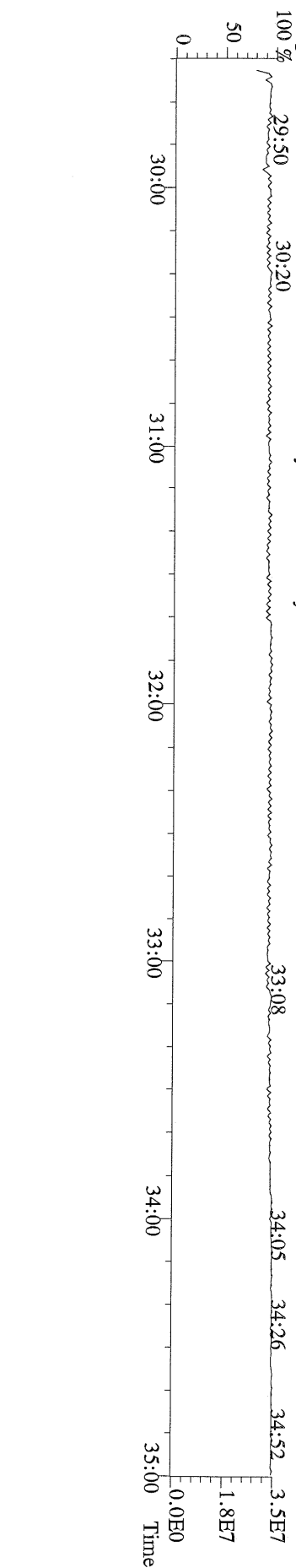
File:17MAY11Z #1-425 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S.3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



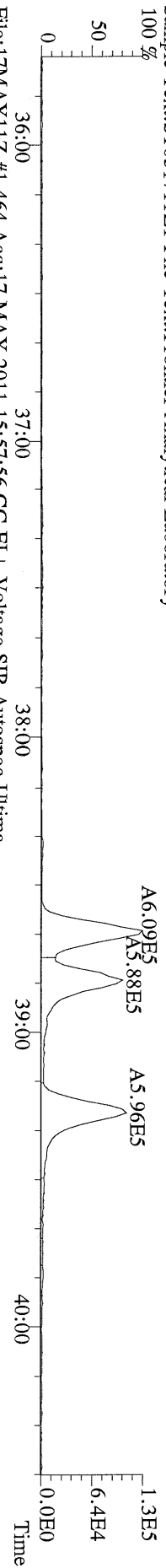
File:17MAY11Z #1-425 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S.3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



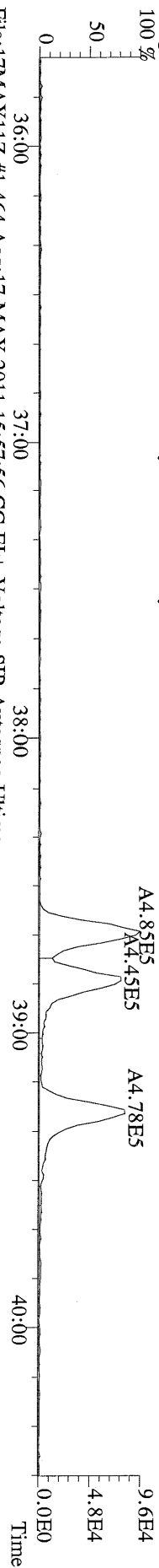
File:17MAY11Z #1-425 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S.3 F:2 Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



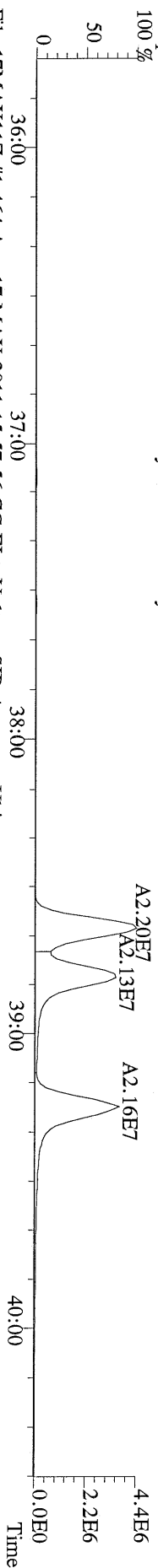
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



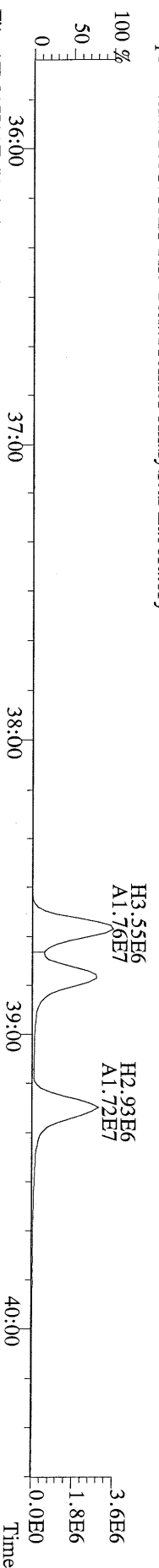
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



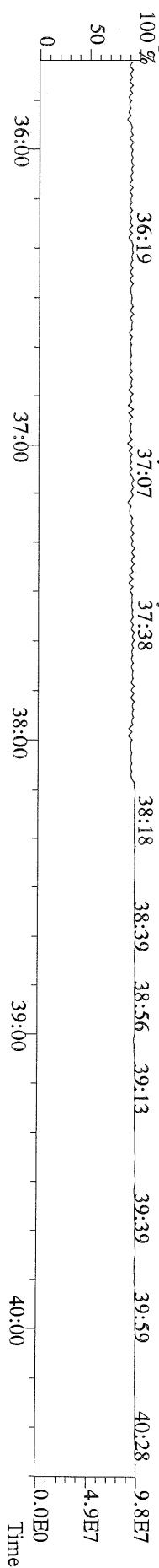
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



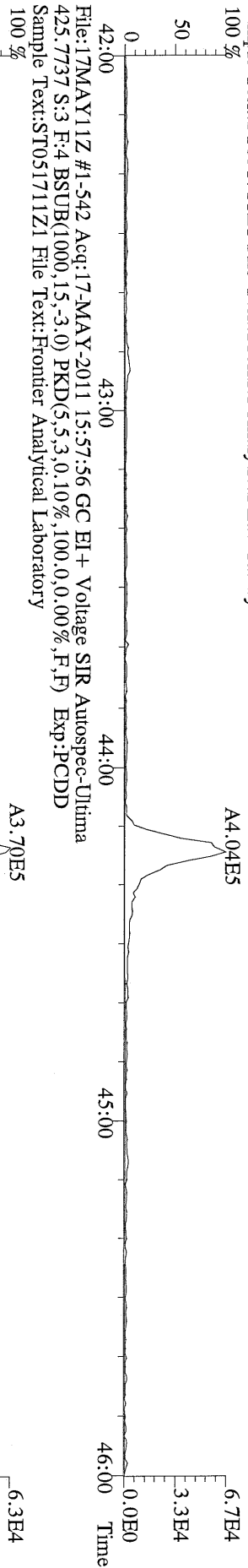
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



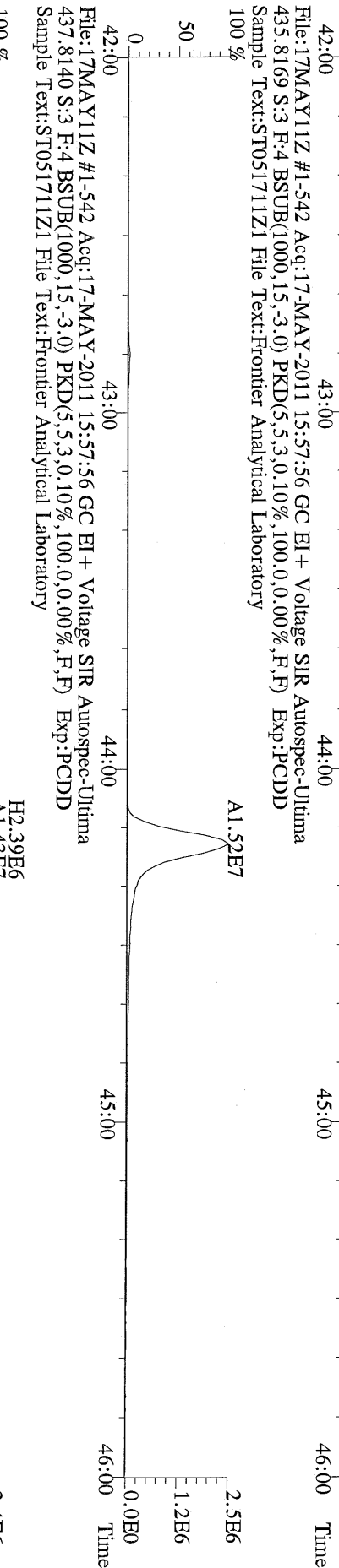
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:3 F:3 Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



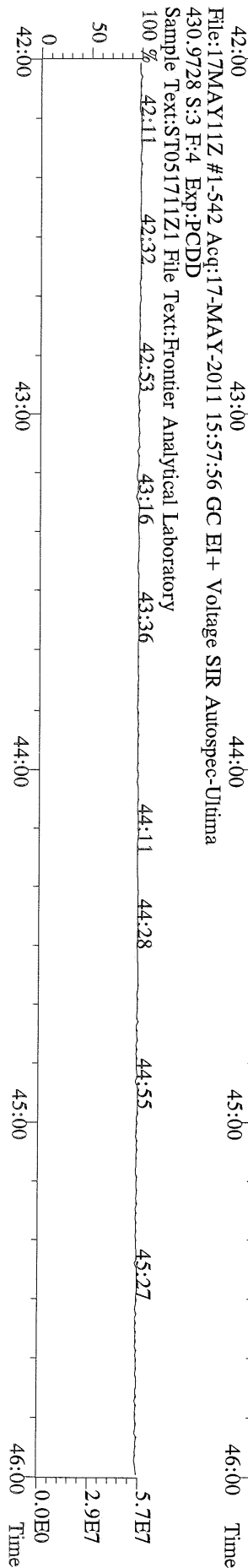
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:3 F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



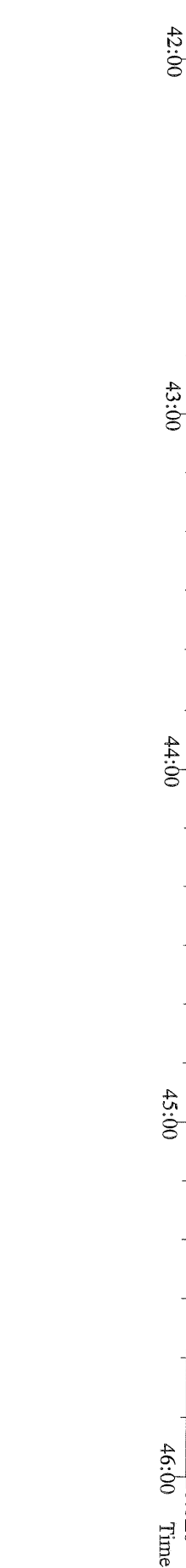
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:3 F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



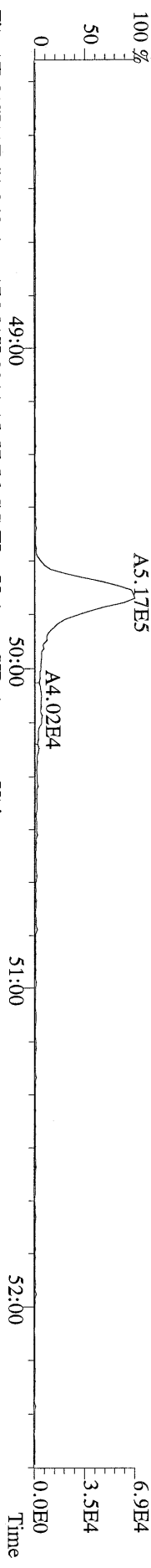
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:3 F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



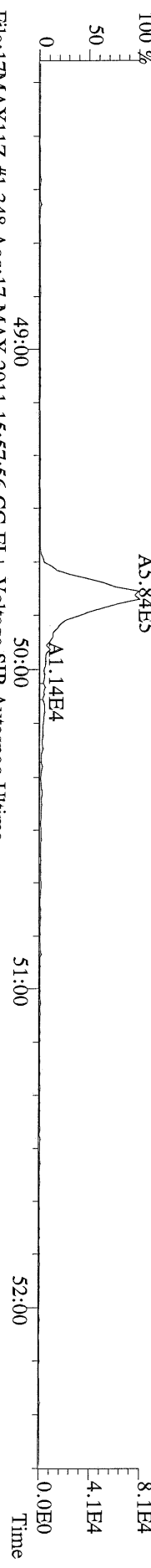
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:3 F:4 Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



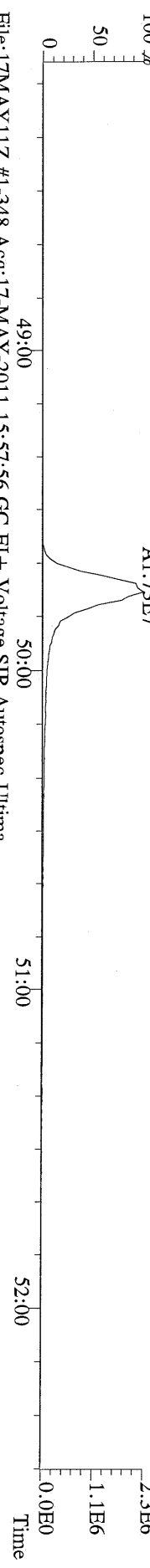
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



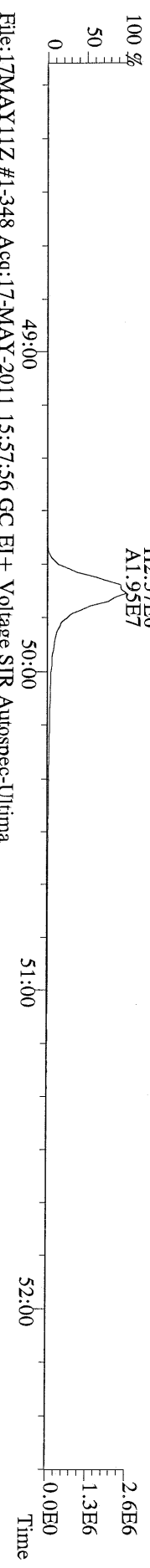
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



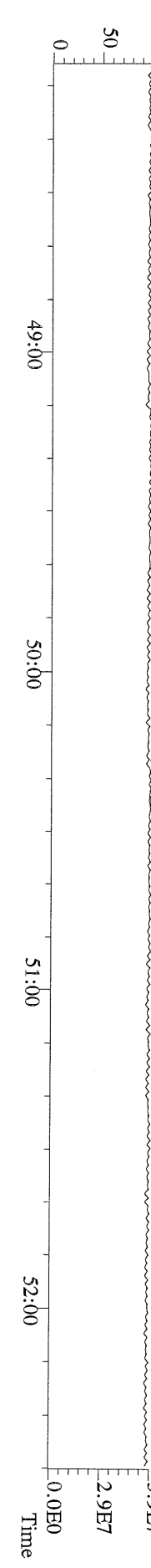
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



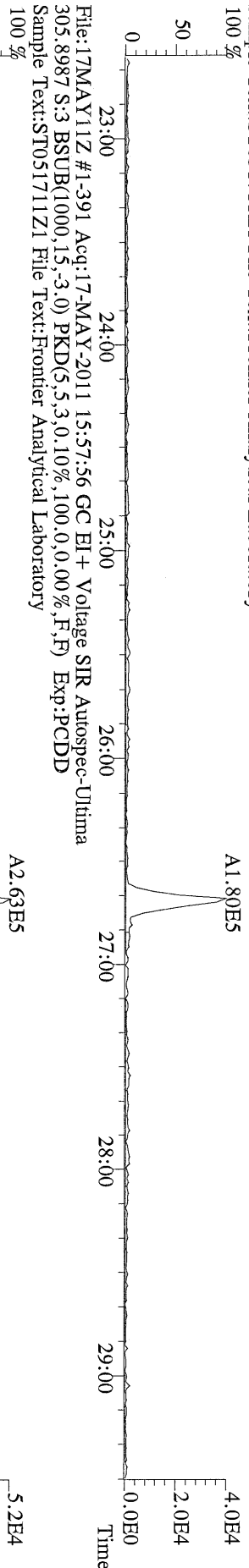
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



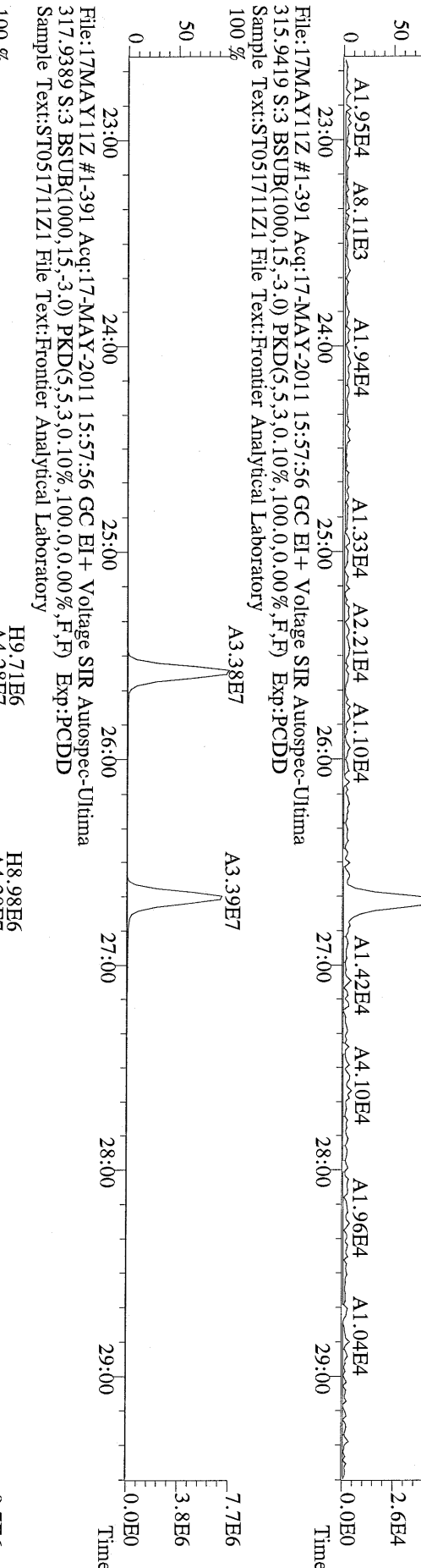
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:3 F:5 Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



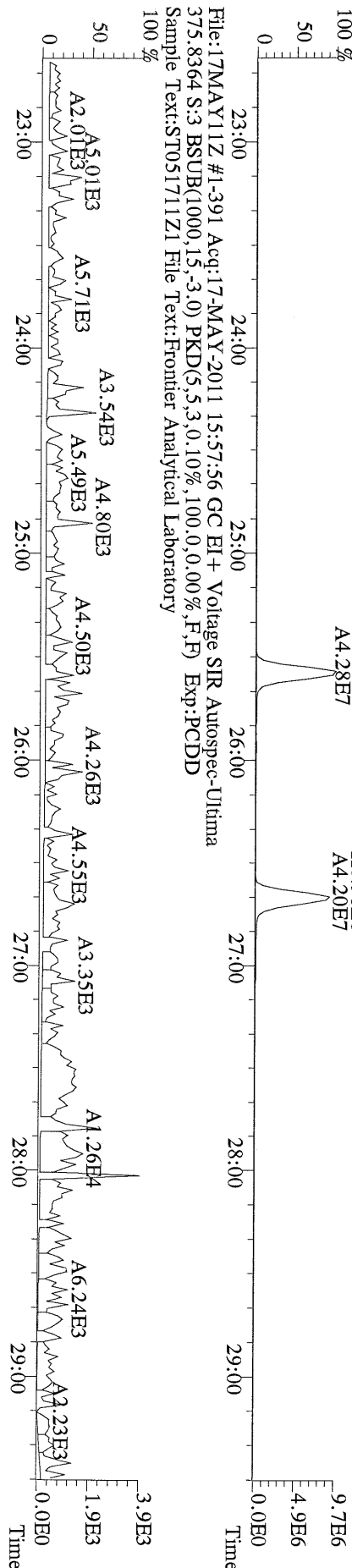
File:17MAY11Z #1-391 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



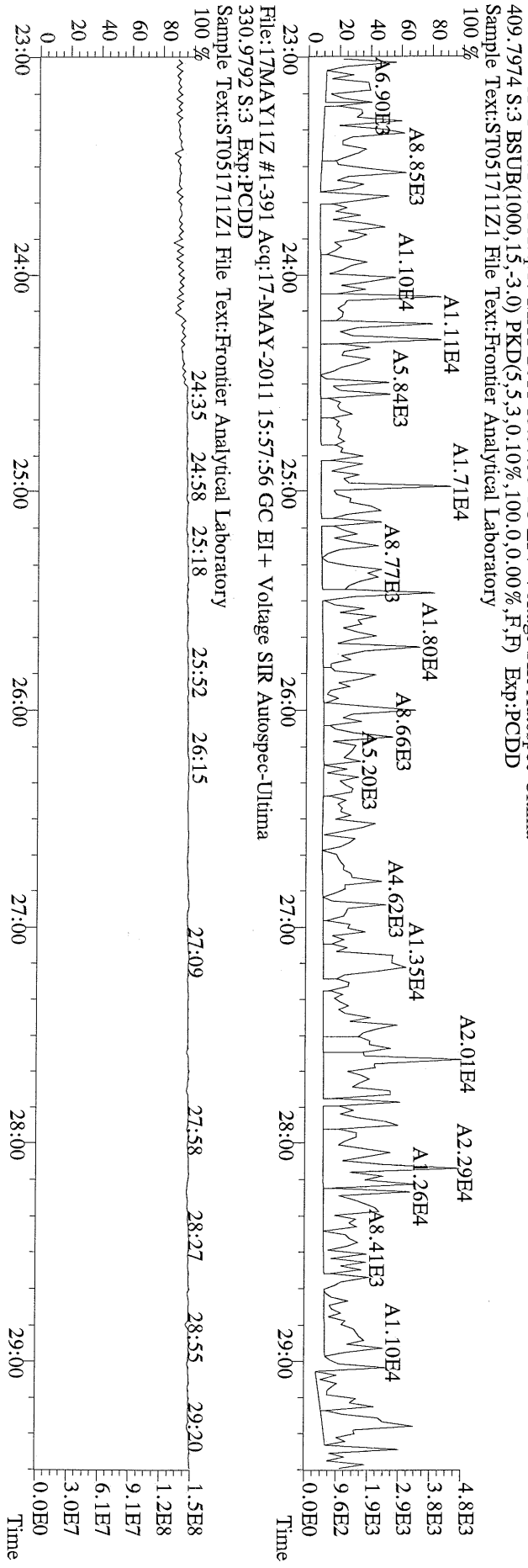
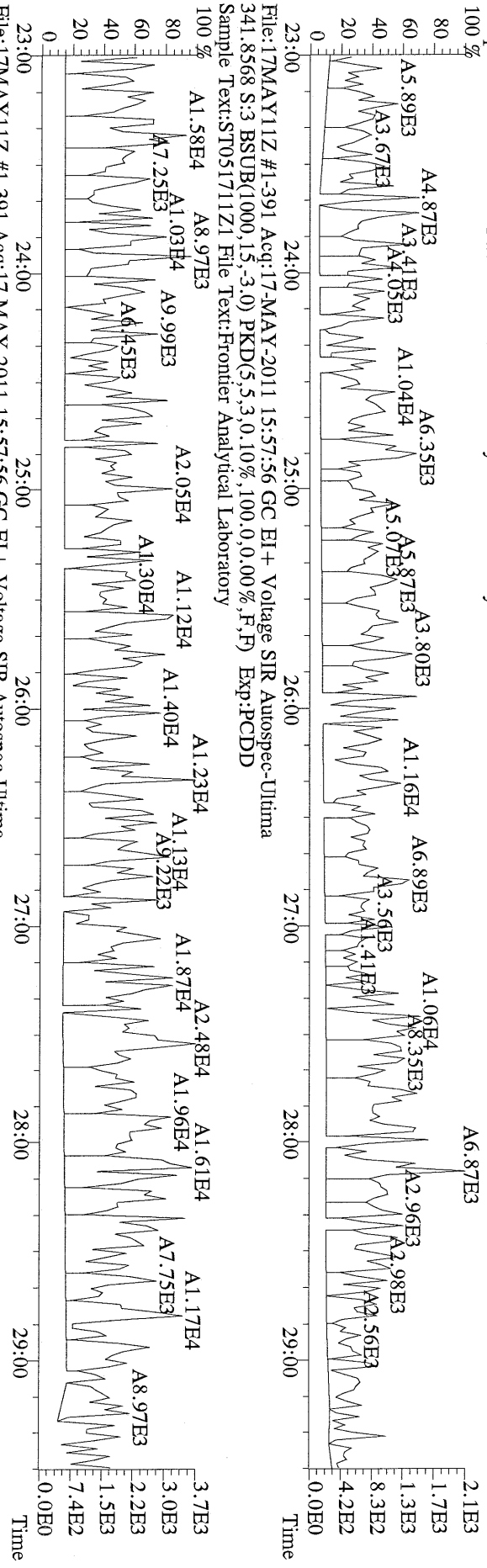
File:17MAY11Z #1-391 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



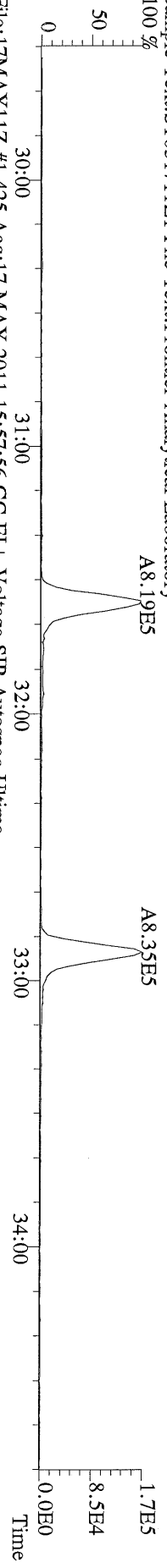
File:17MAY11Z #1-391 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



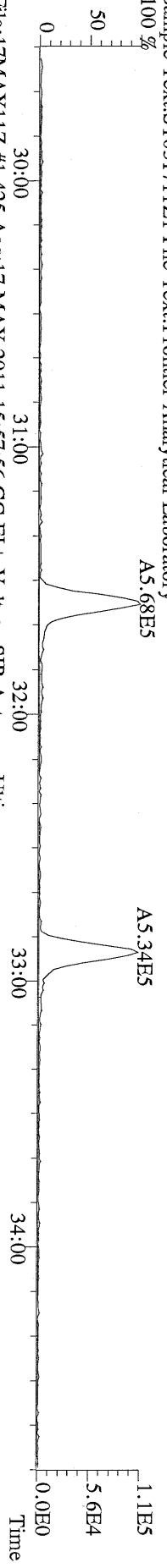
File:17MAY11Z #1-391 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S.3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



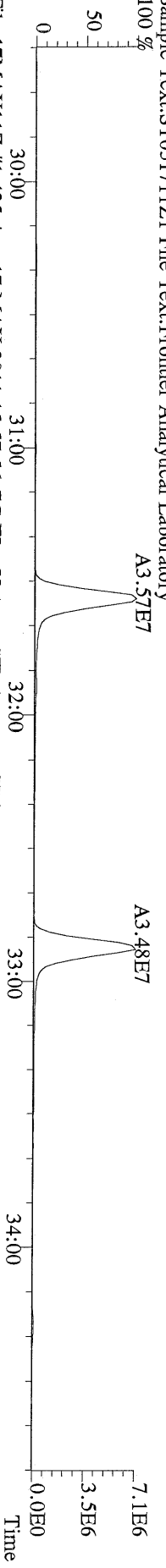
File:17MAY11Z #1-425 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



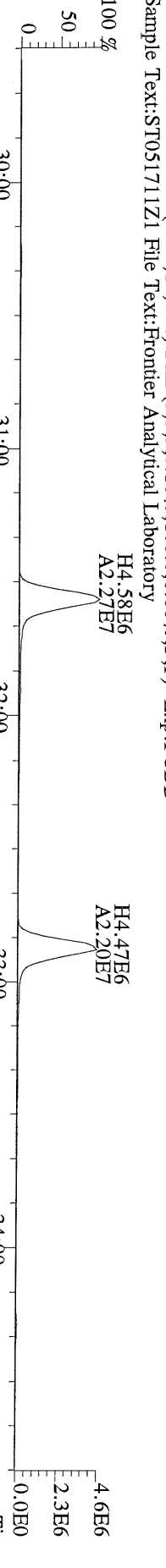
File:17MAY11Z #1-425 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



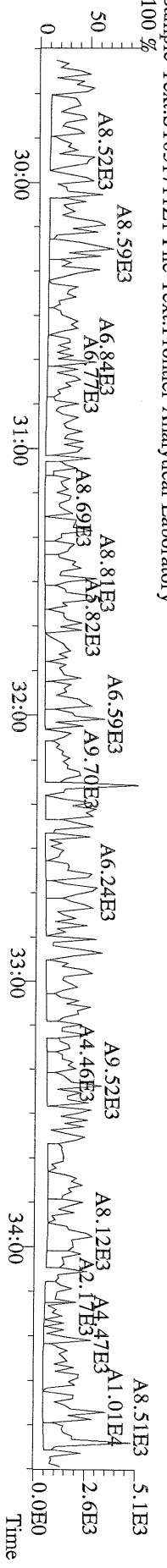
File:17MAY11Z #1-425 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



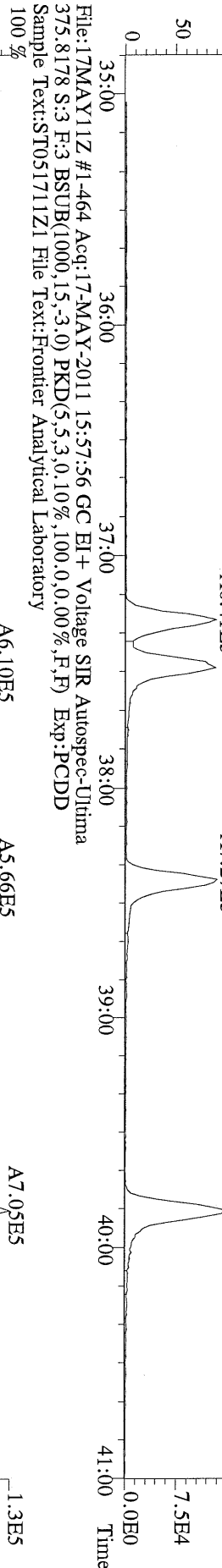
File:17MAY11Z #1-425 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



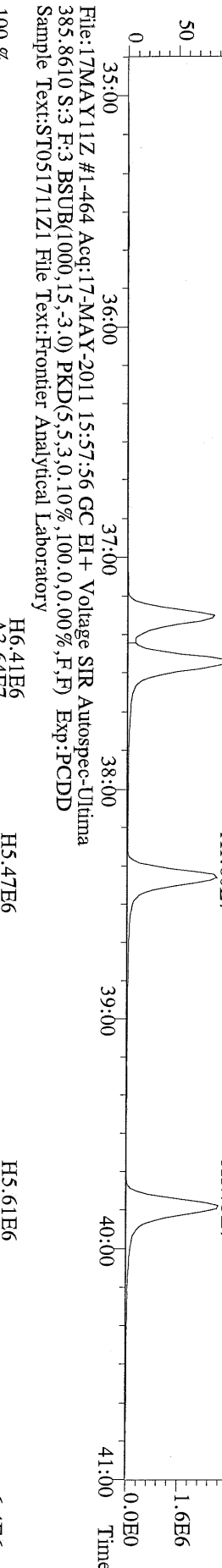
File:17MAY11Z #1-425 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



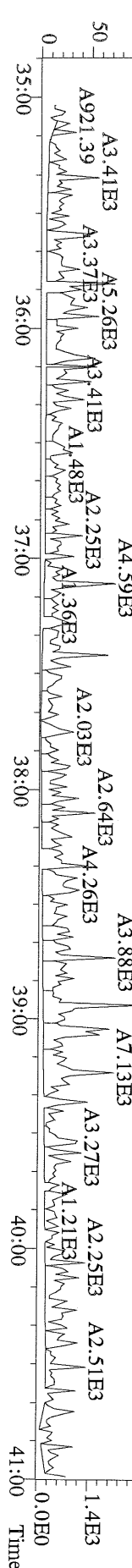
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Utima
373.8207 S:3 F:3 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



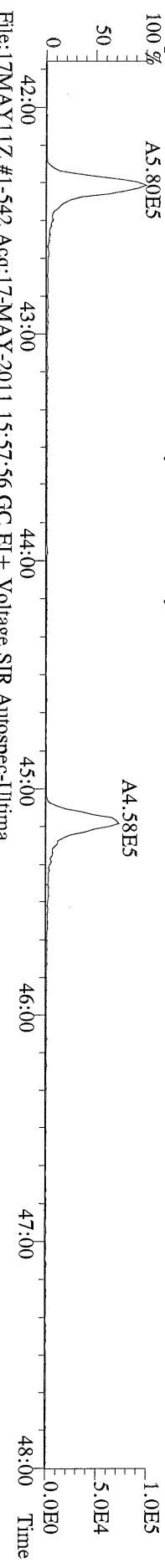
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Utima
383.8639 S:3 F:3 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



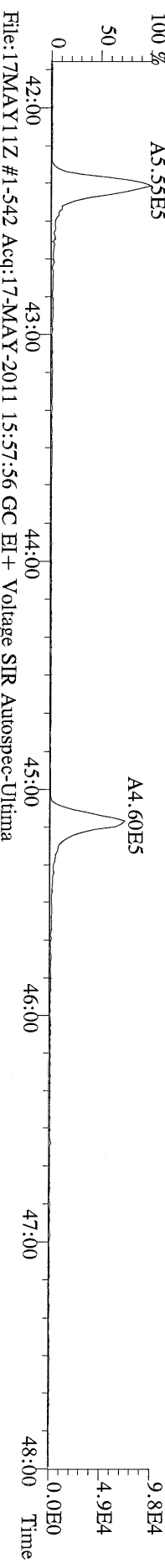
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Utima
445.7555 S:3 F:3 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



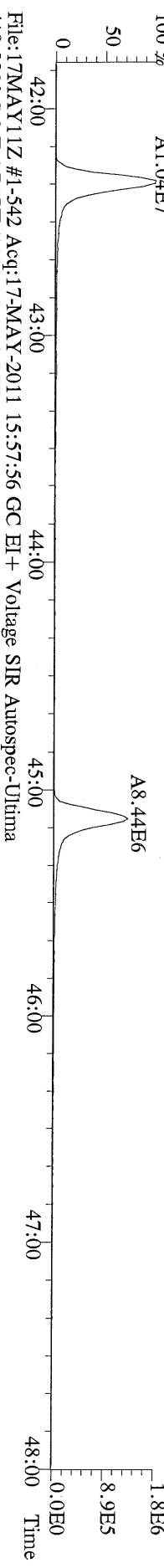
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



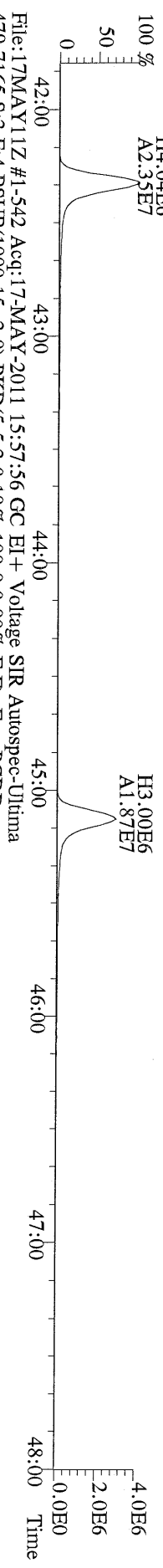
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



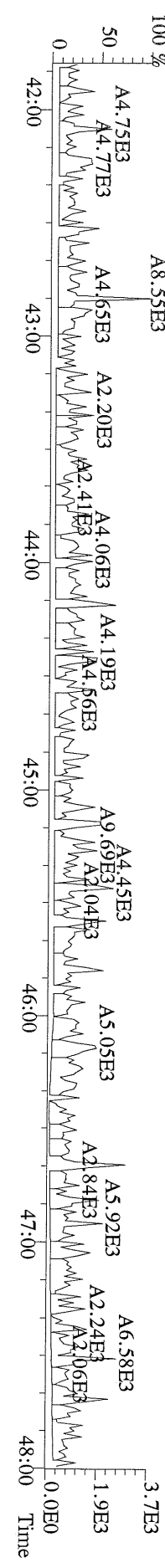
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



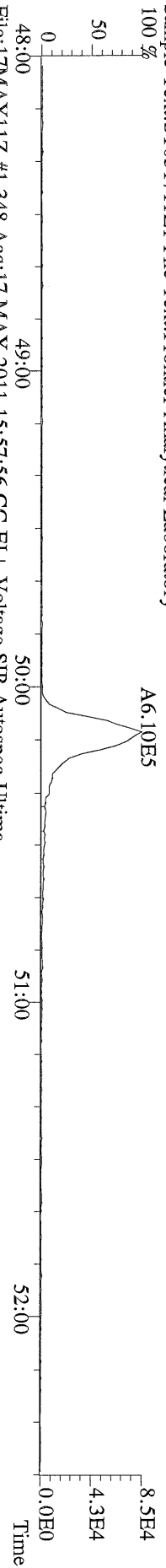
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



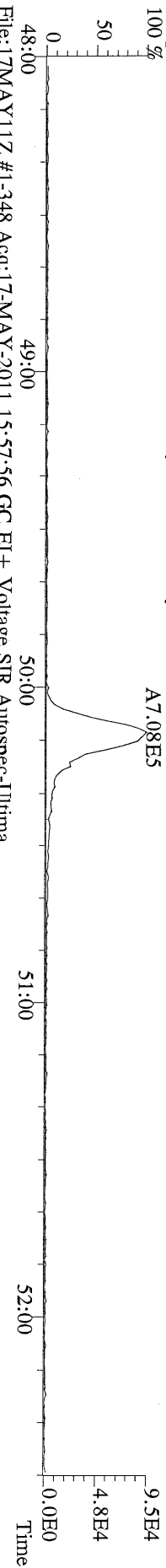
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



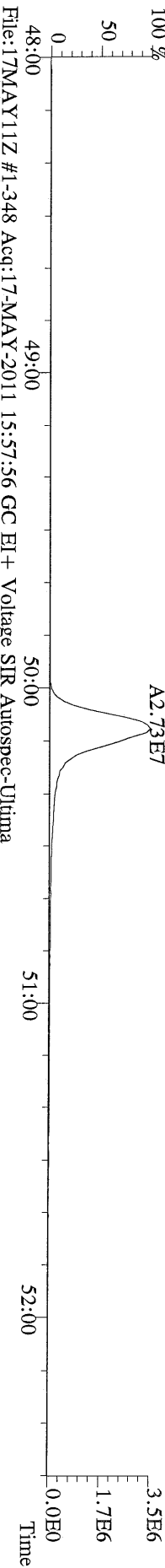
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



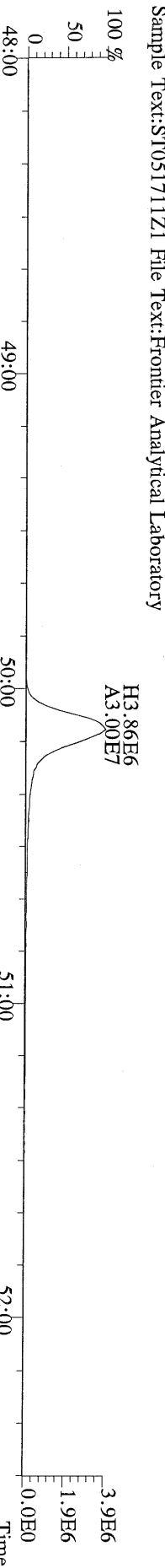
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



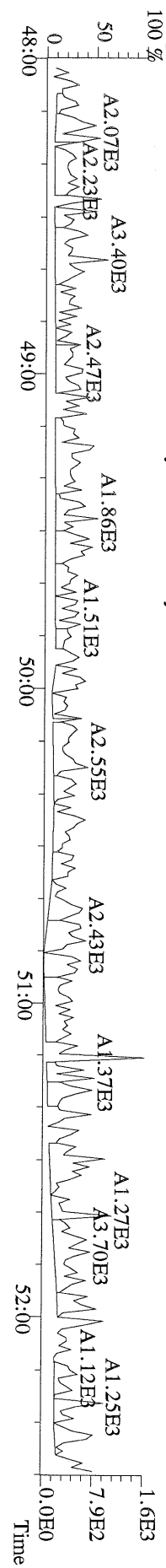
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



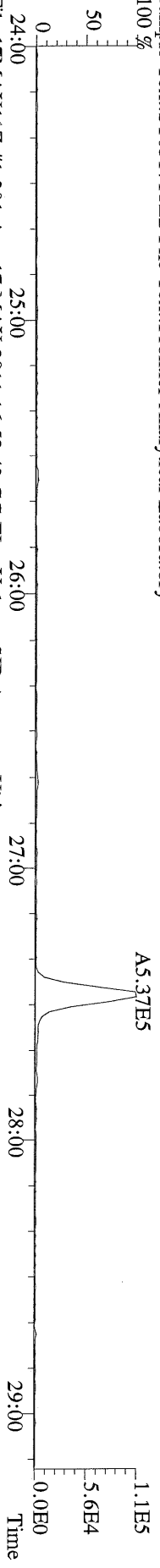
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



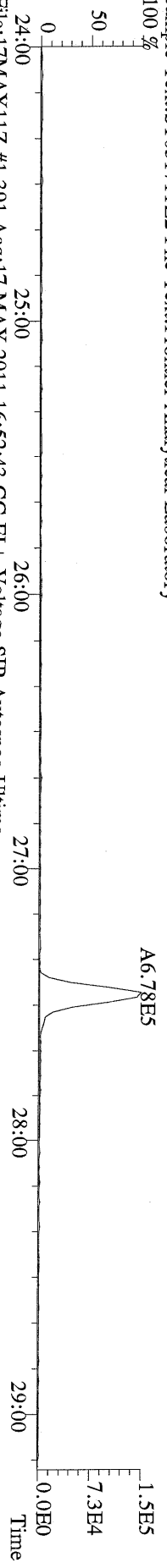
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



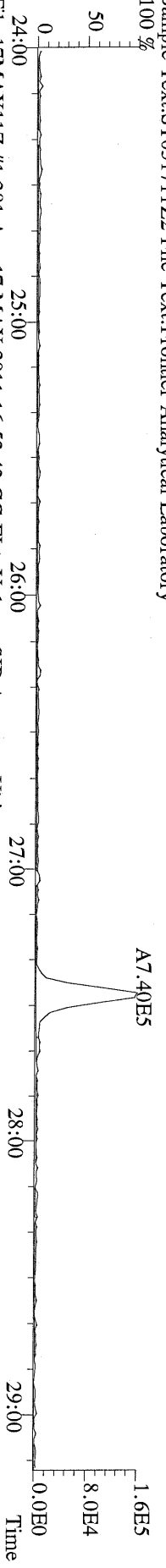
File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



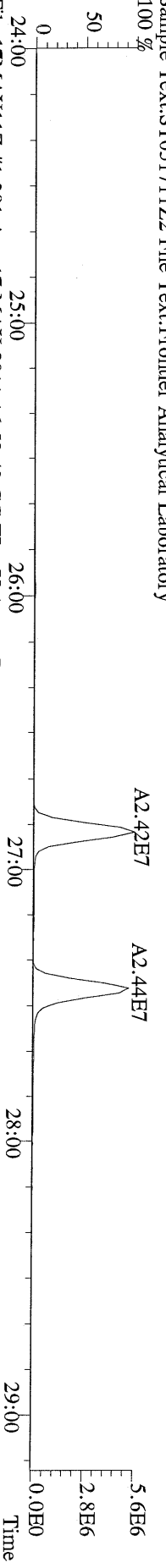
File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



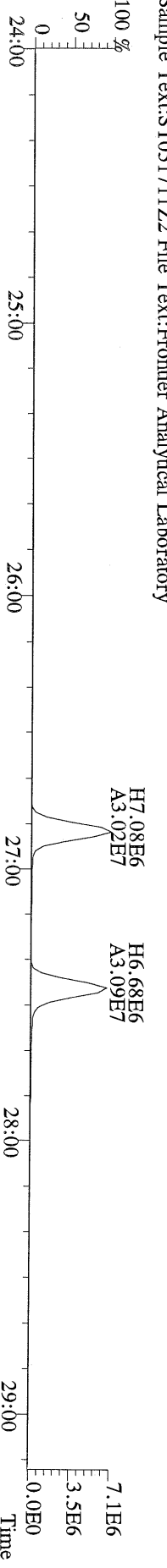
File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



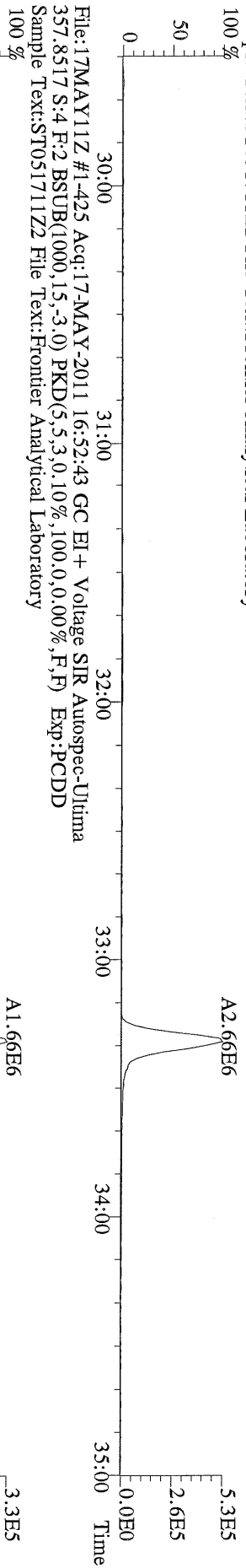
File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



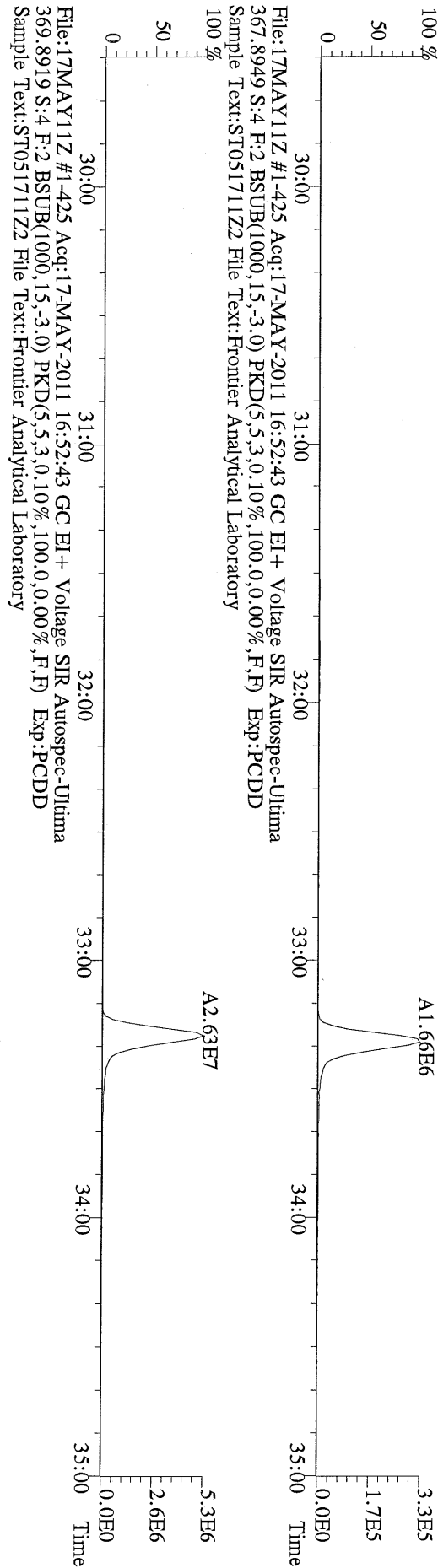
File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



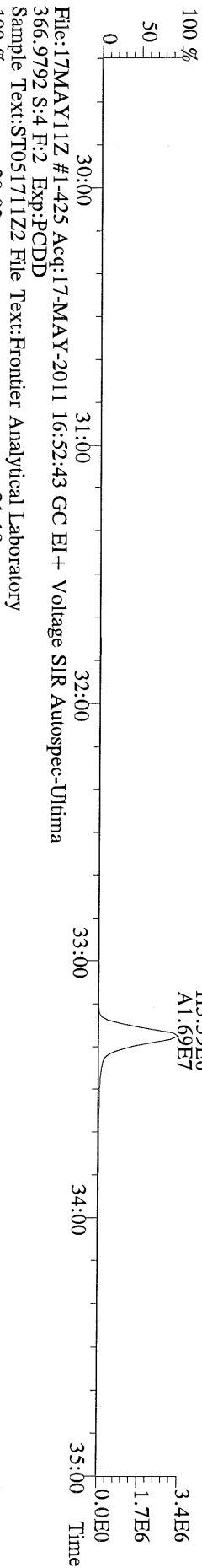
File:17MAY11Z #1-425 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



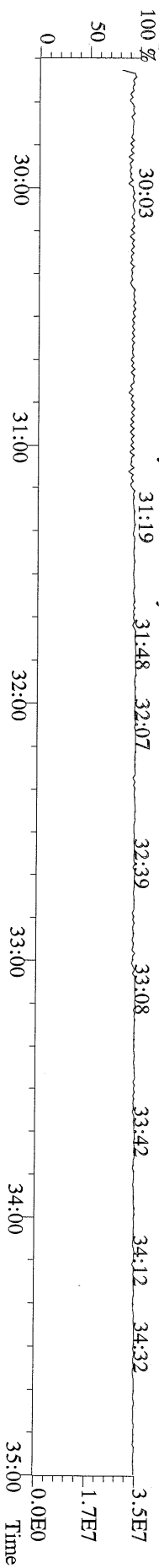
File:17MAY11Z #1-425 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



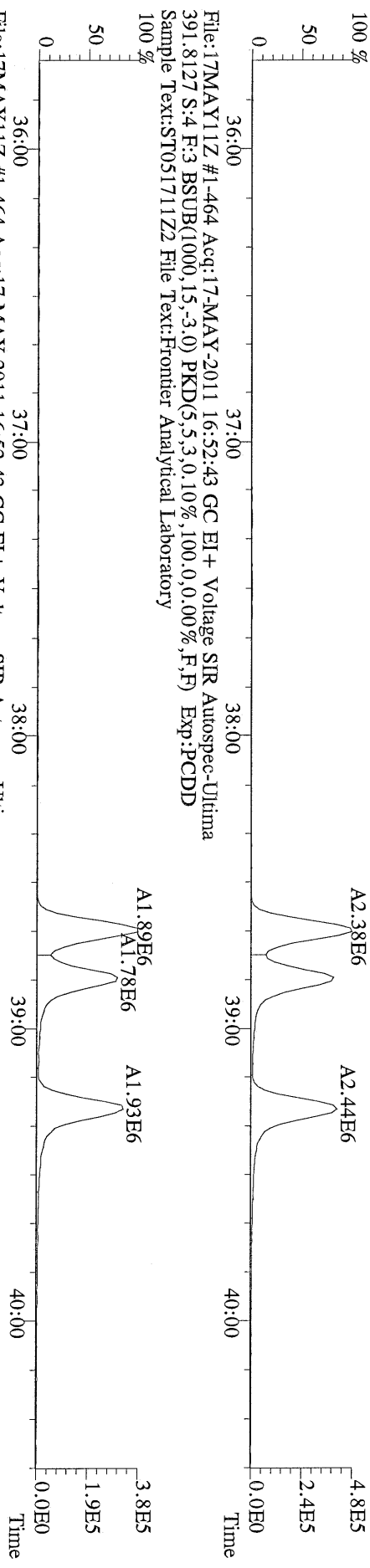
File:17MAY11Z #1-425 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



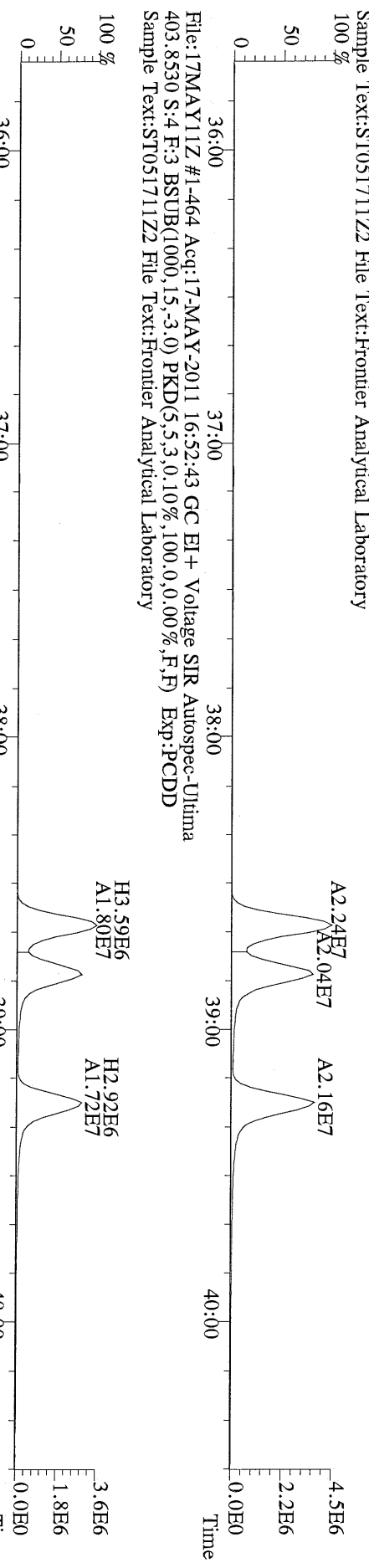
File:17MAY11Z #1-425 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:4 F:2 Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



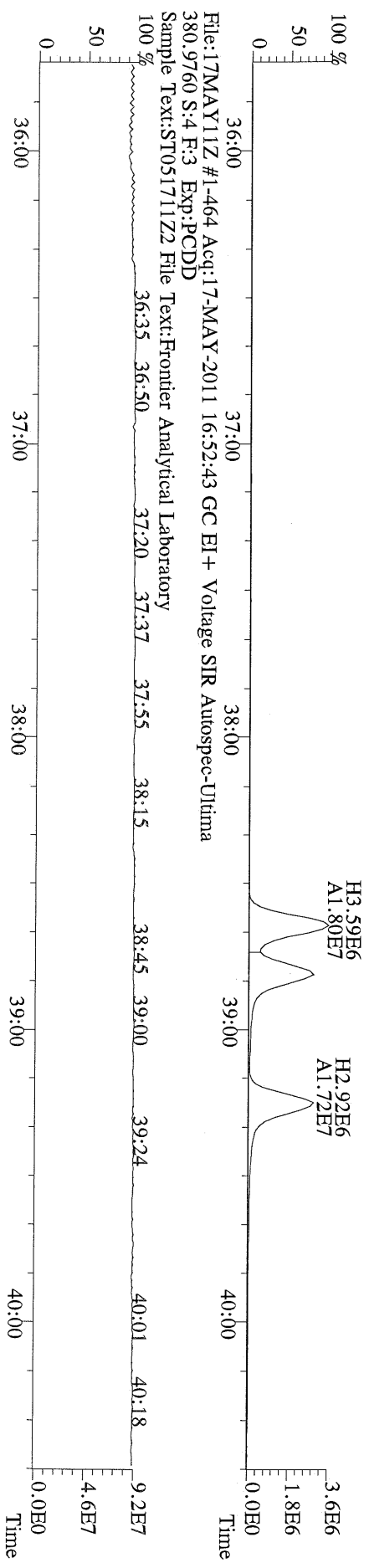
File: 17MAY11Z #1-464 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



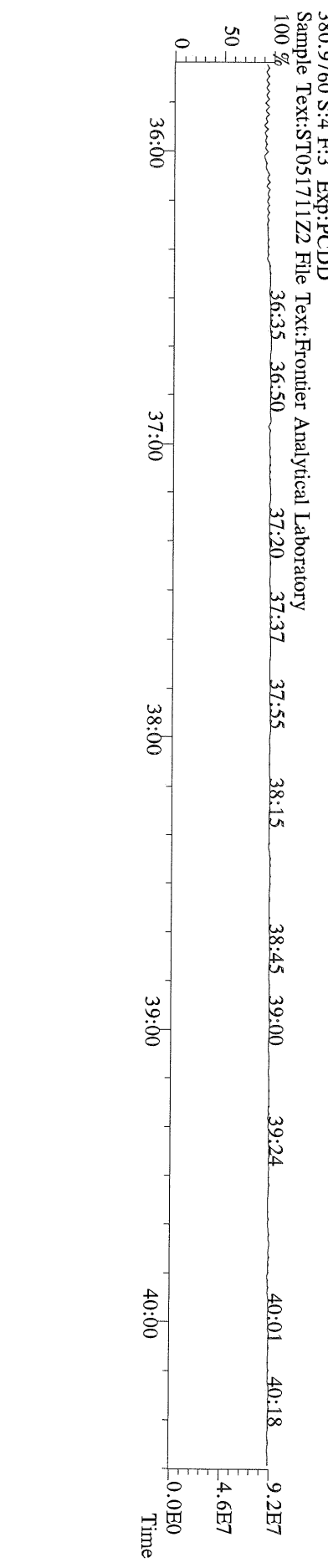
File: 17MAY11Z #1-464 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



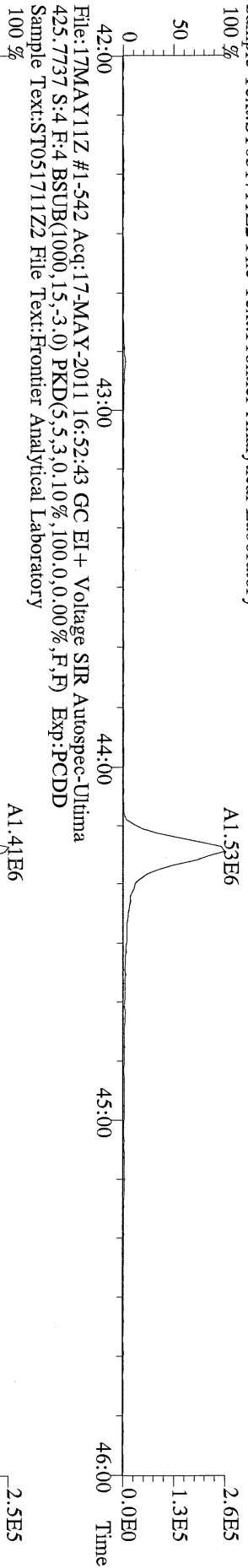
File: 17MAY11Z #1-464 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



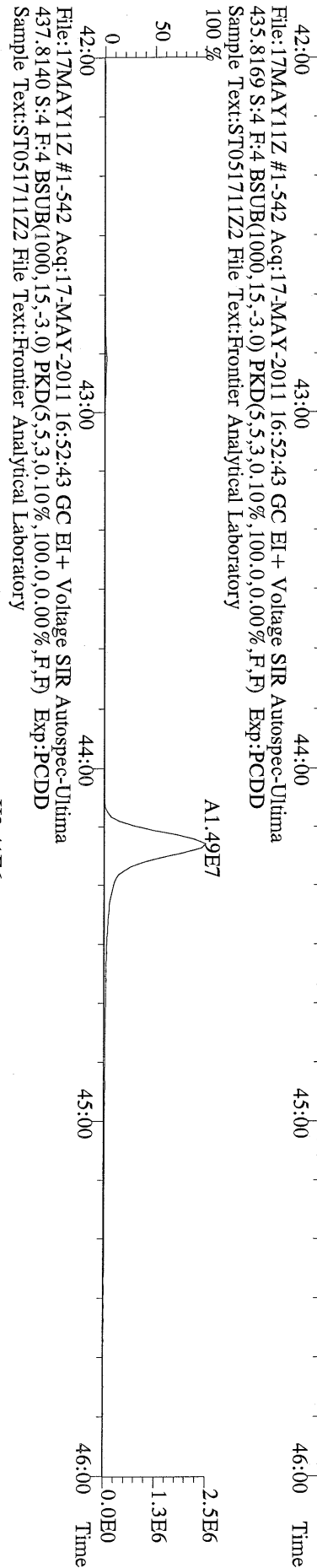
File: 17MAY11Z #1-464 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:4 F:3 Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



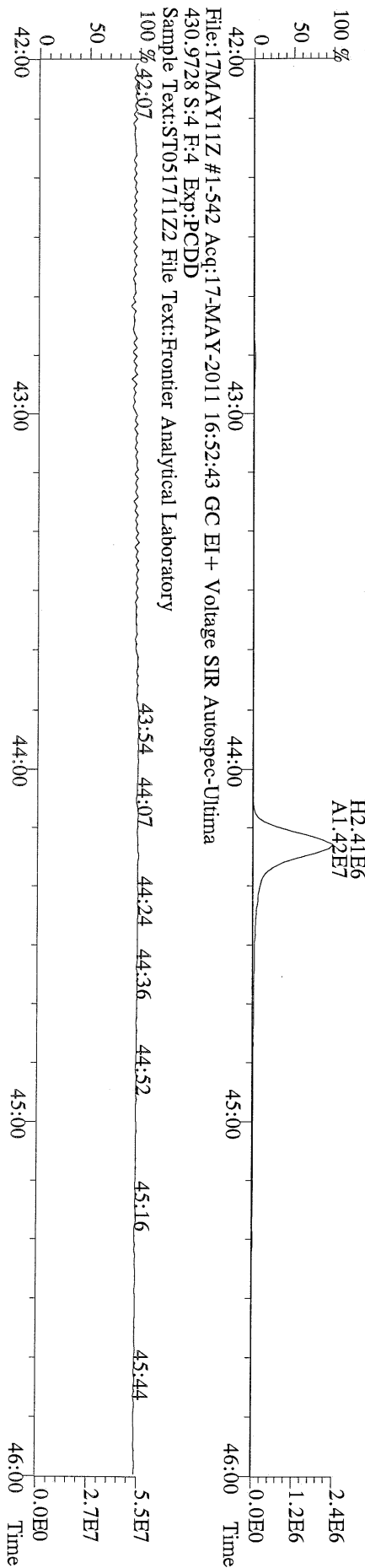
File: 17MAY11Z #1-542 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



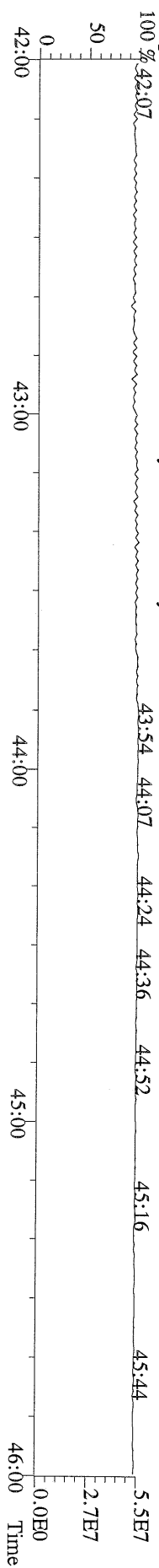
File: 17MAY11Z #1-542 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



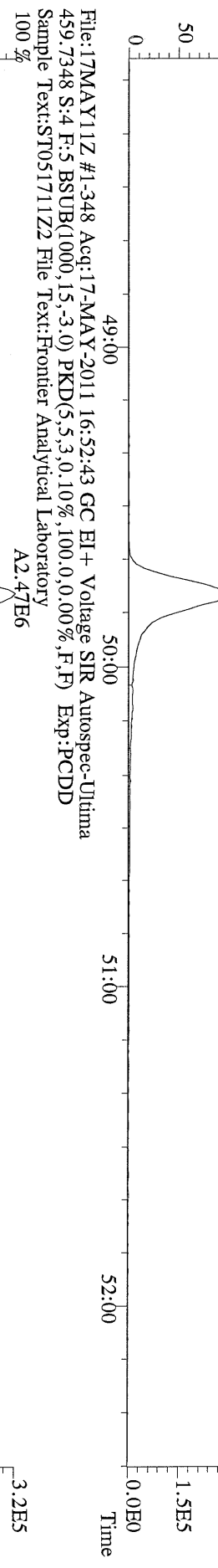
File: 17MAY11Z #1-542 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



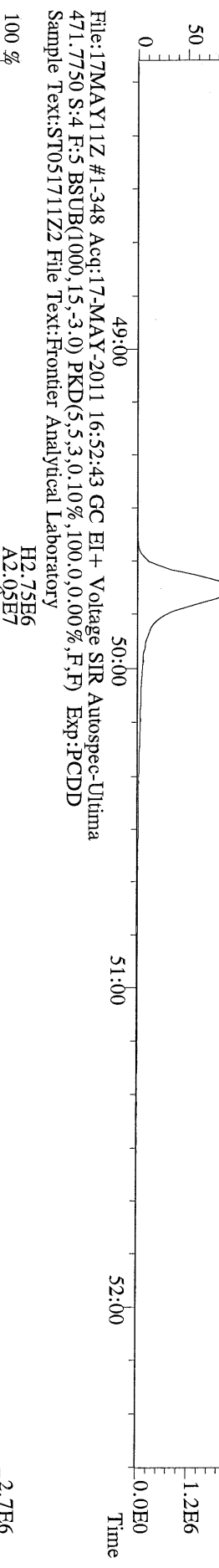
File: 17MAY11Z #1-542 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:4 F:4 Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



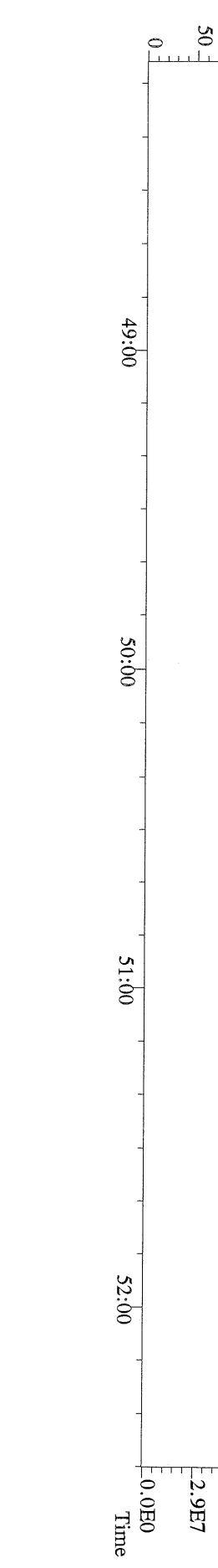
File: 17MAY11Z #1-348 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



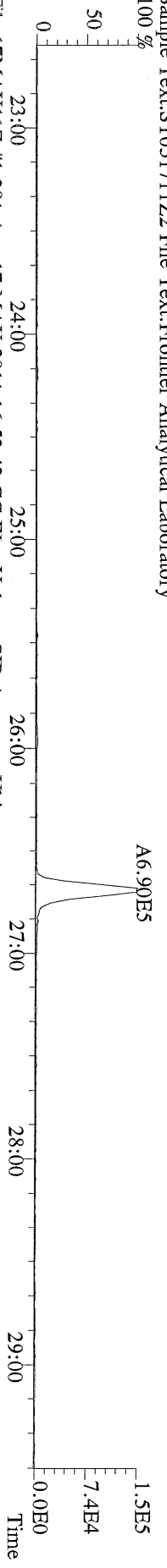
File: 17MAY11Z #1-348 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



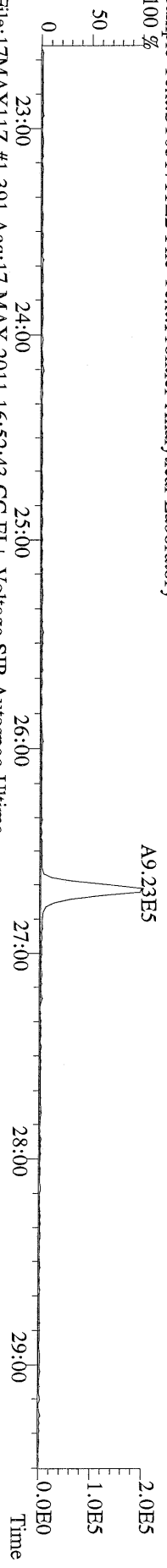
File: 17MAY11Z #1-348 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



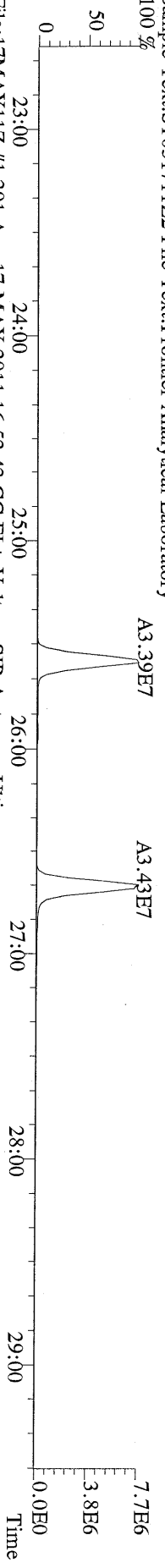
File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Utima
303.9016 S:4 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



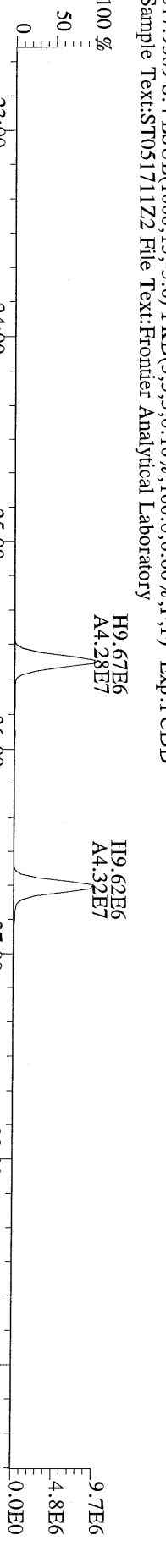
File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Utima
305.8987 S:4 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



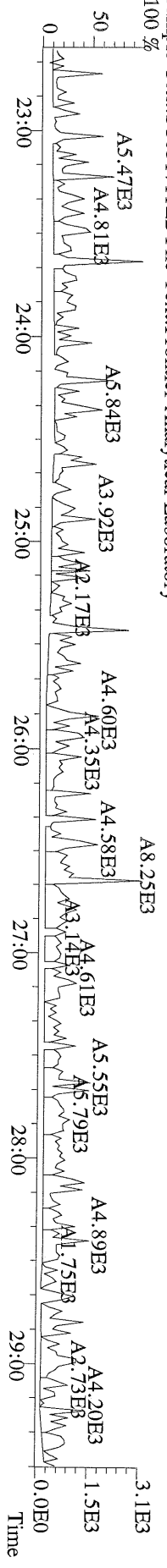
File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Utima
315.9419 S:4 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



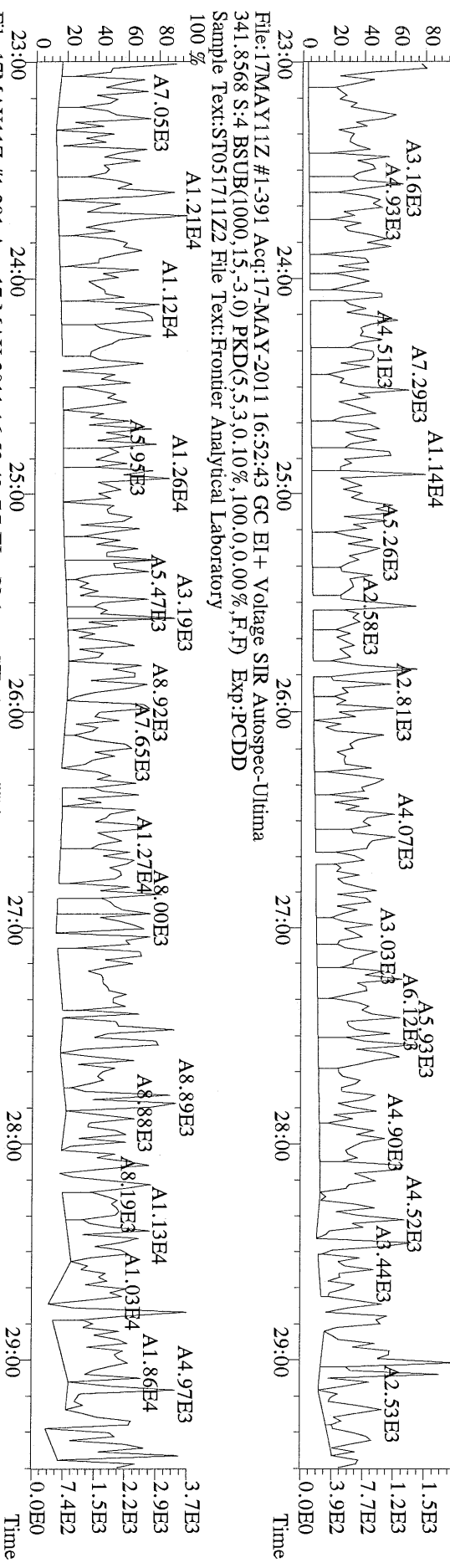
File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Utima
317.9389 S:4 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



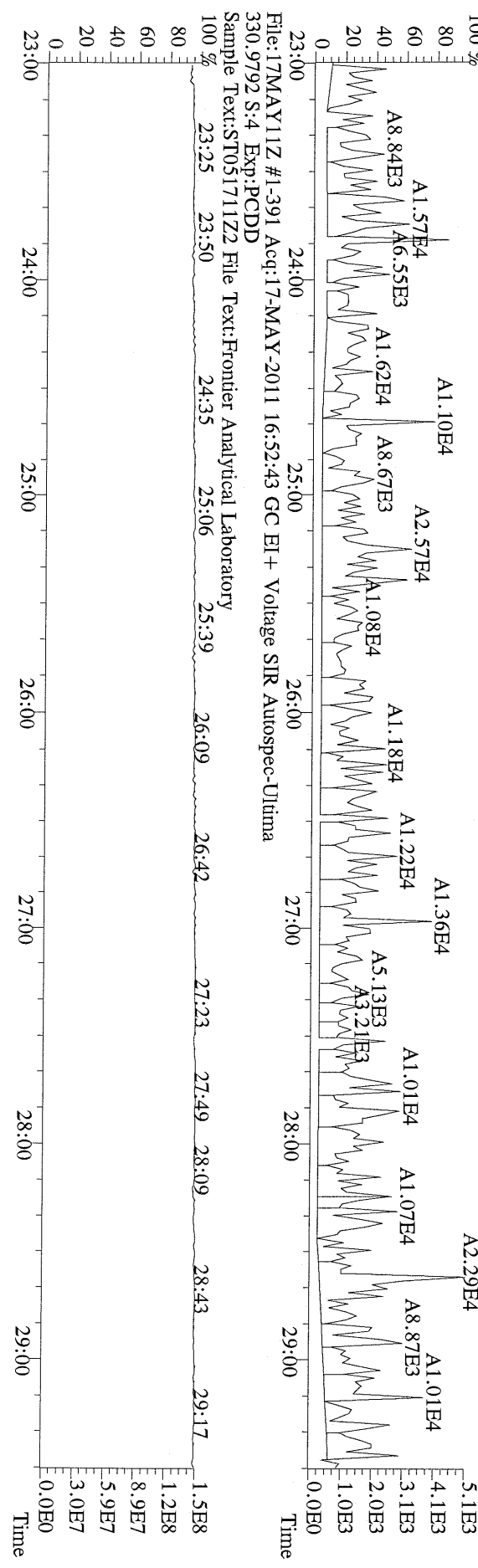
File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Utima
375.8364 S:4 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory

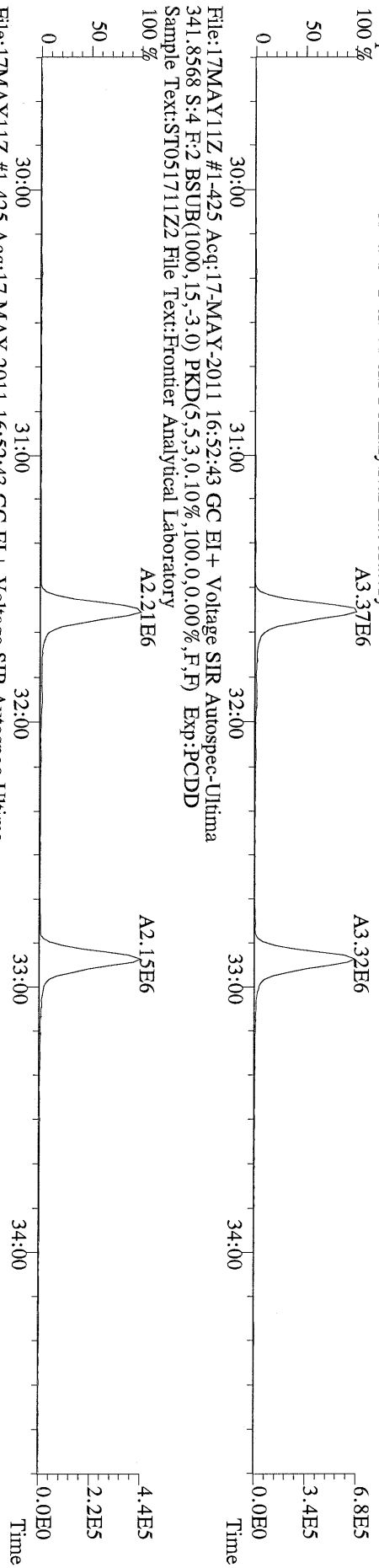


File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Utima
 409.7974 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory

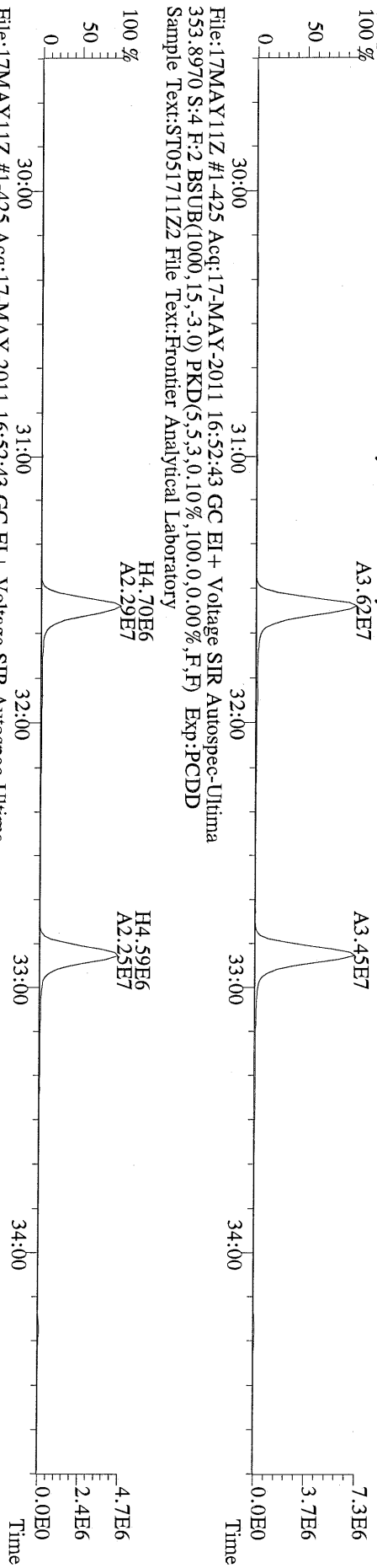


File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Utima
 330.9792 S:4 Exp:PCDD
 Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory

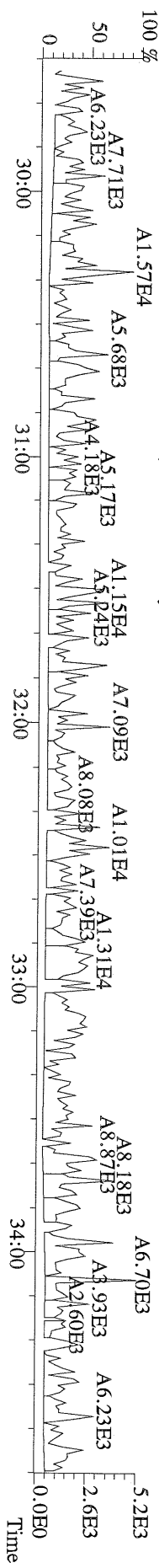
File: 17MAY11Z #1-425 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



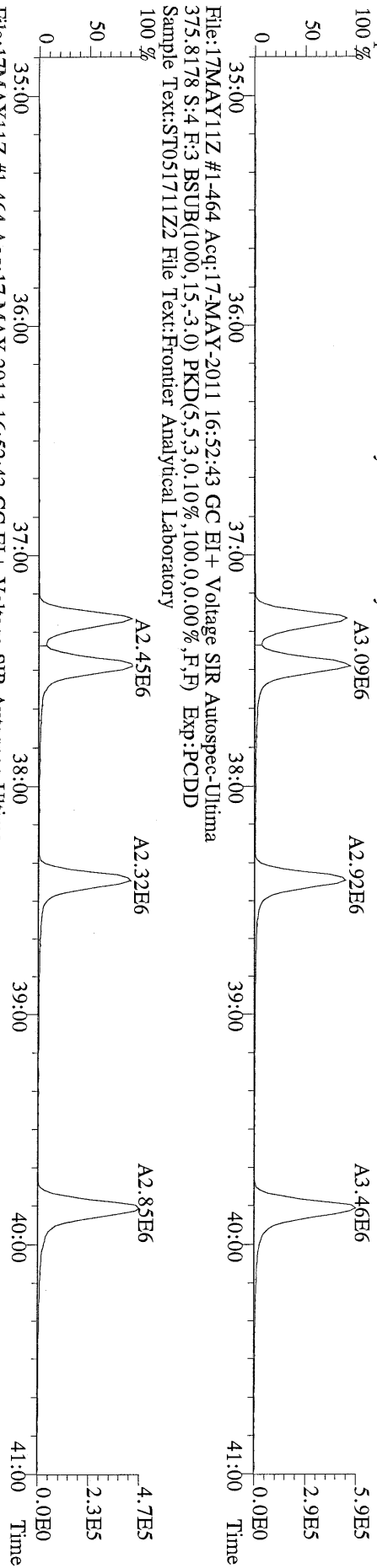
File: 17MAY11Z #1-425 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



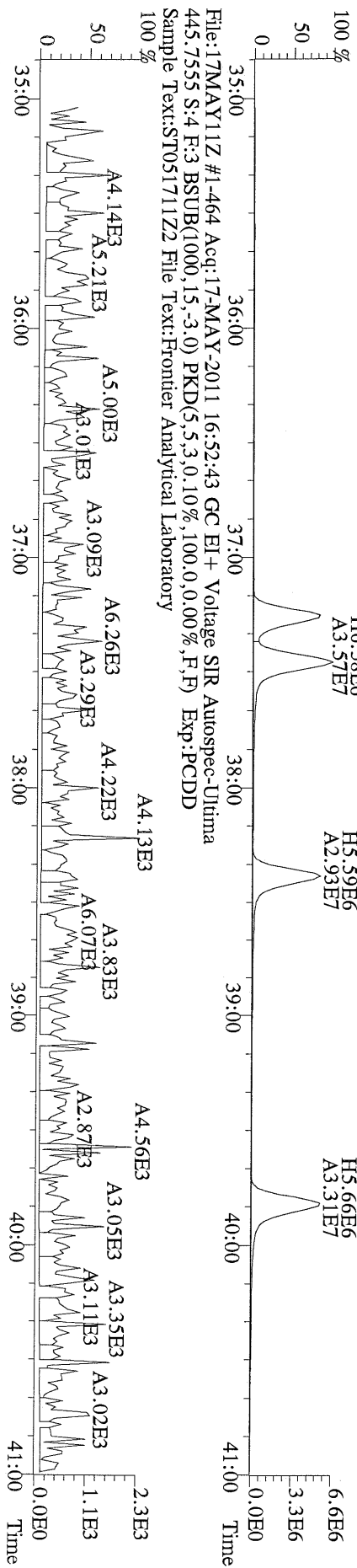
File: 17MAY11Z #1-425 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



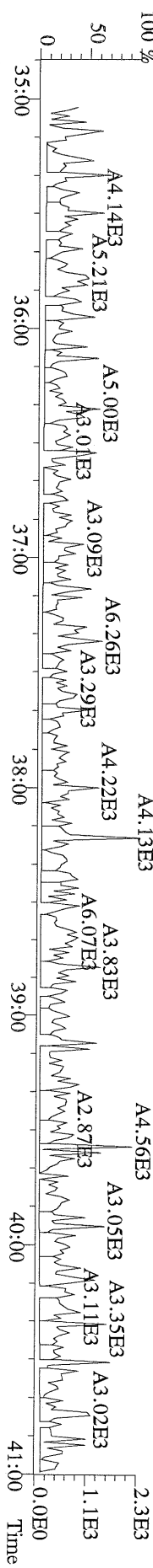
File: 17MAY11Z #1-464 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Utima
373.8207 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



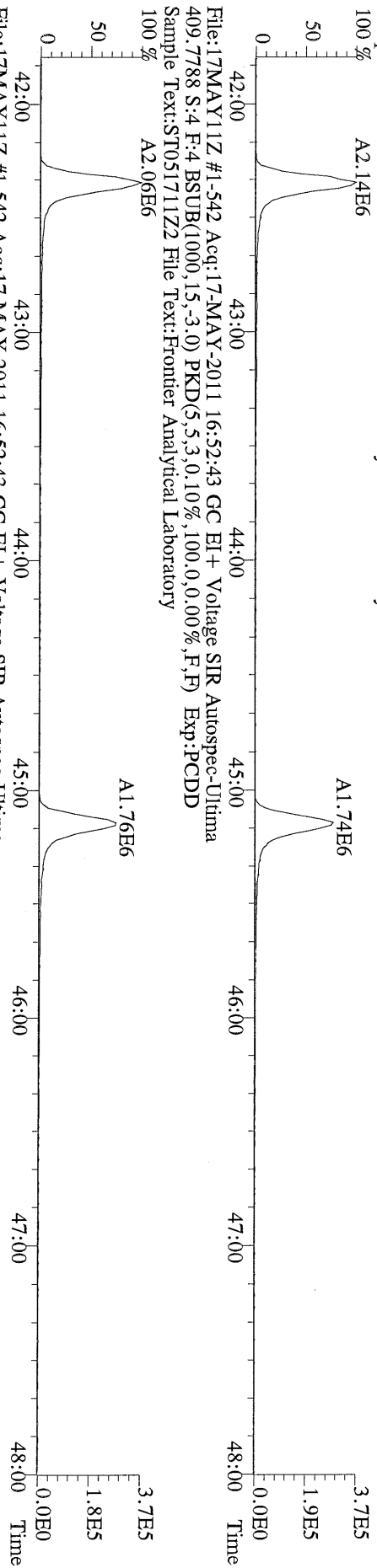
File: 17MAY11Z #1-464 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Utima
383.8639 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



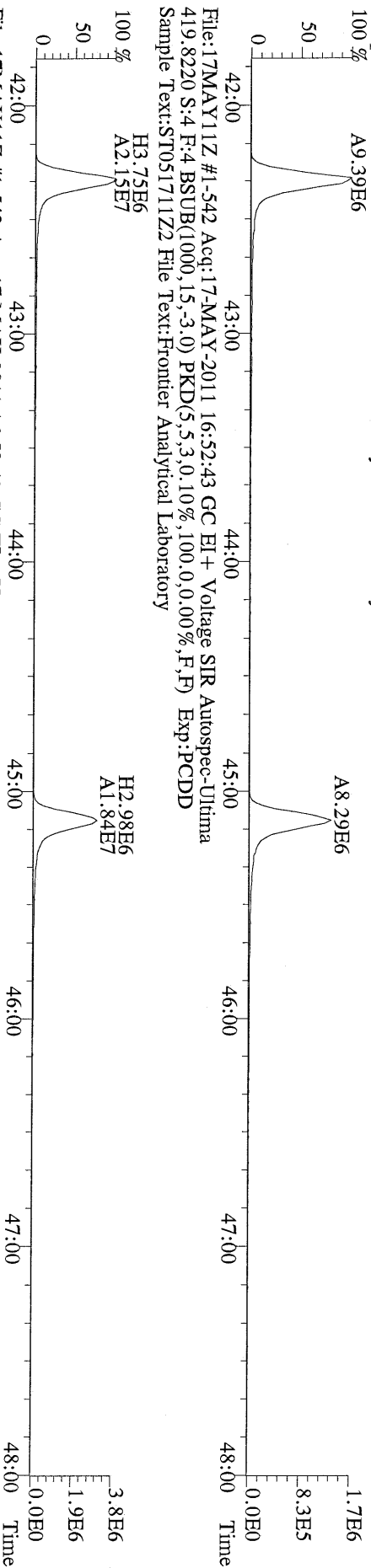
File: 17MAY11Z #1-464 Acq: 17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Utima
445.7555 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



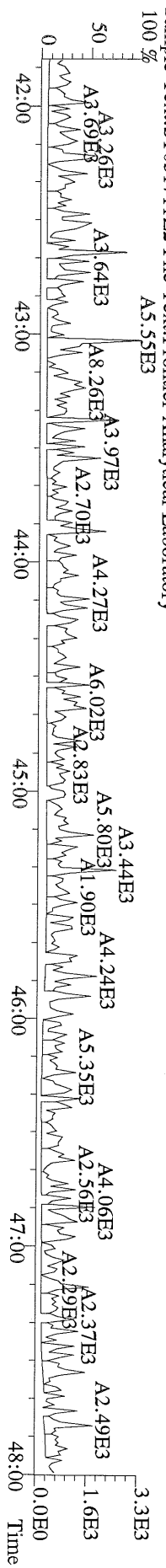
File:17MAY11Z #1-542 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



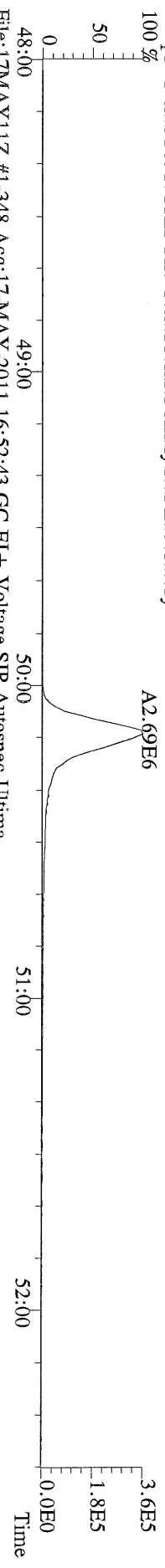
File:17MAY11Z #1-542 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



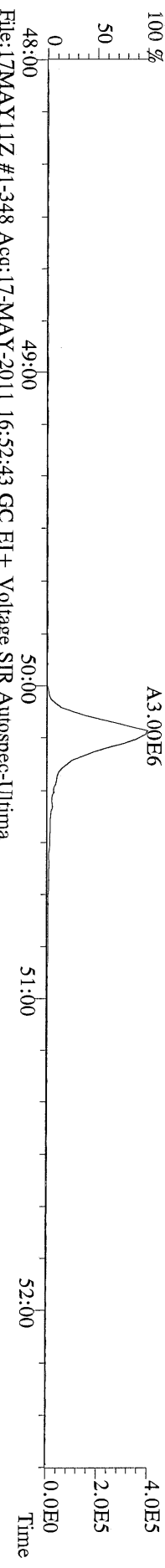
File:17MAY11Z #1-542 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



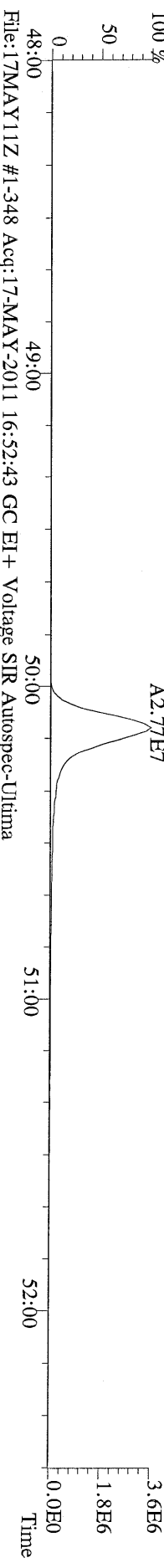
File:17MAY11Z #1-348 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



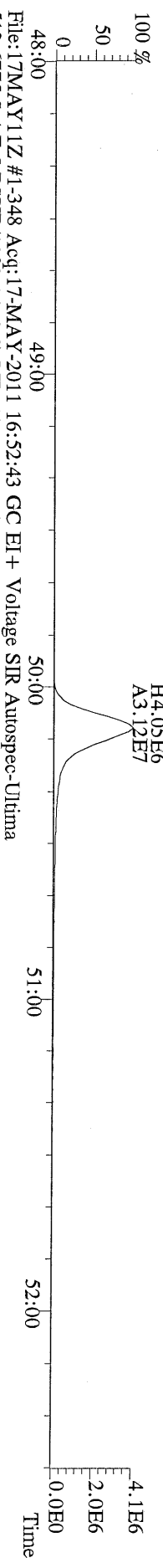
File:17MAY11Z #1-348 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



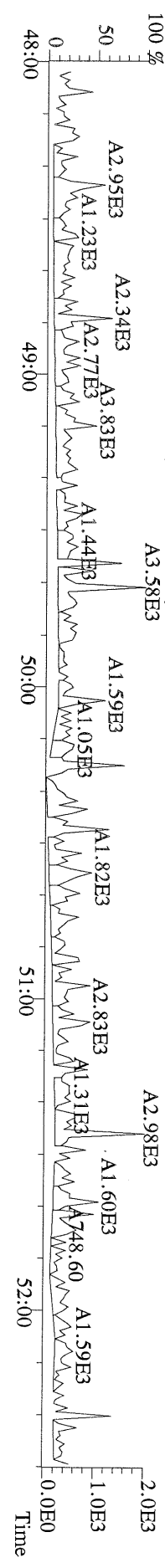
File:17MAY11Z #1-348 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



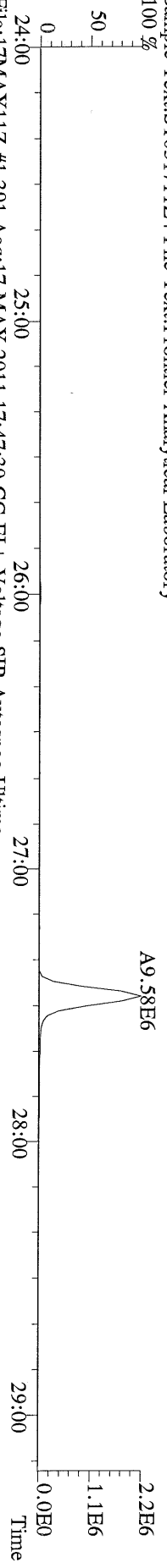
File:17MAY11Z #1-348 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



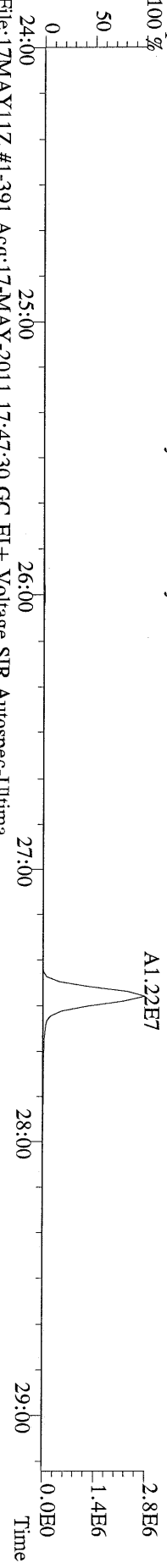
File:17MAY11Z #1-348 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



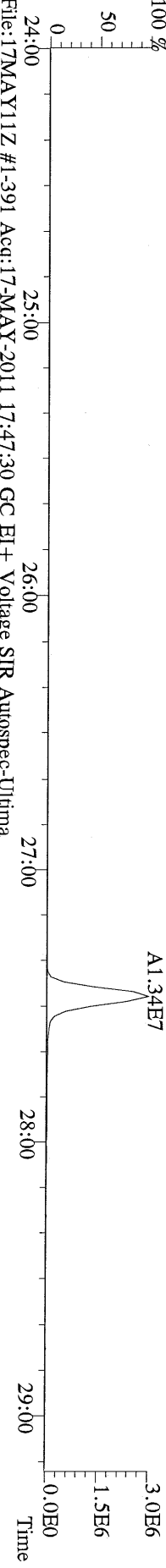
File:17MAY11Z #1-391 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Utima
319.8965 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



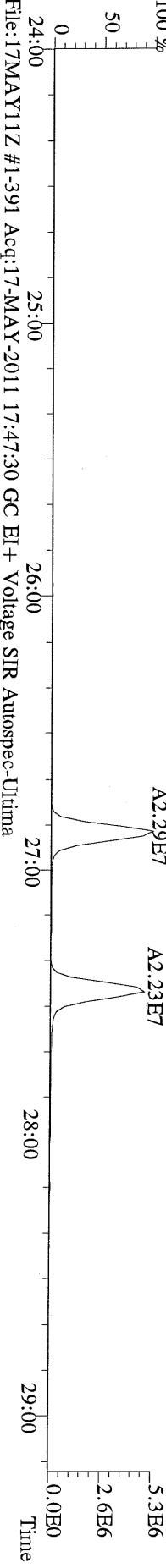
File:17MAY11Z #1-391 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Utima
321.8936 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



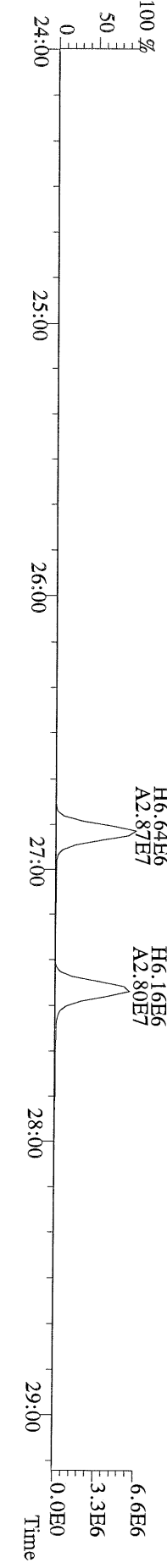
File:17MAY11Z #1-391 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Utima
327.8847 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



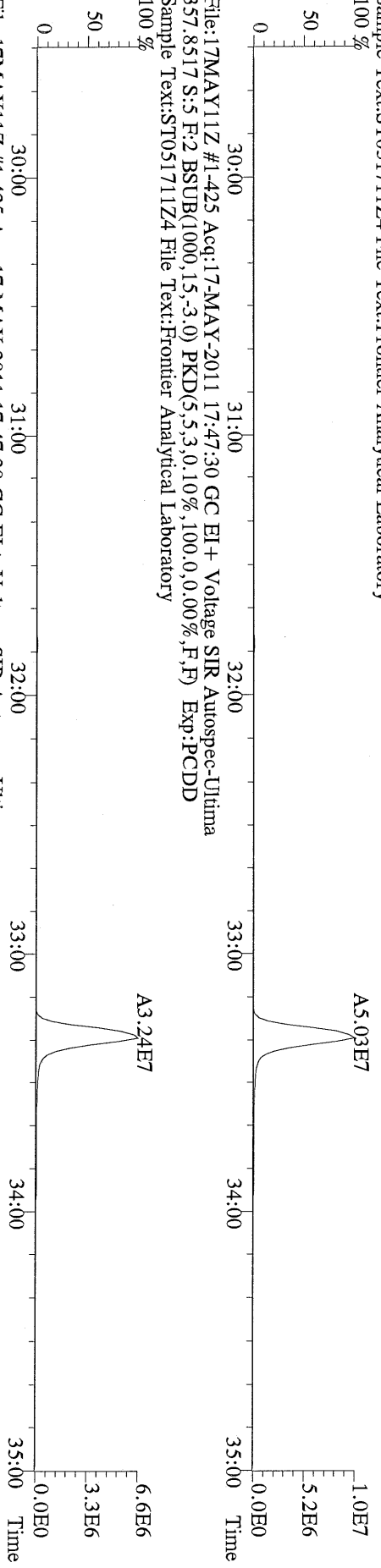
File:17MAY11Z #1-391 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Utima
331.9368 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



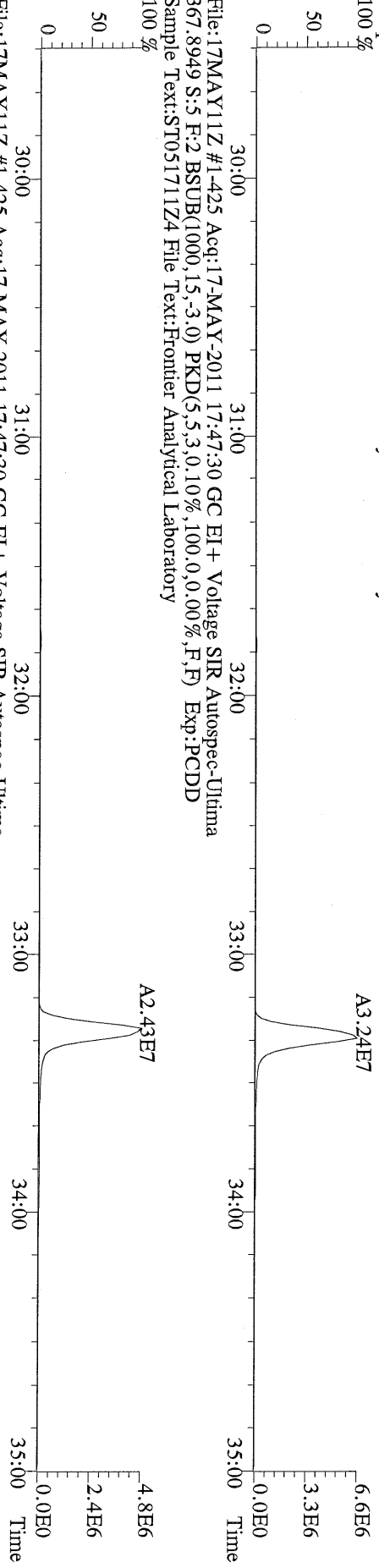
File:17MAY11Z #1-391 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Utima
333.9339 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



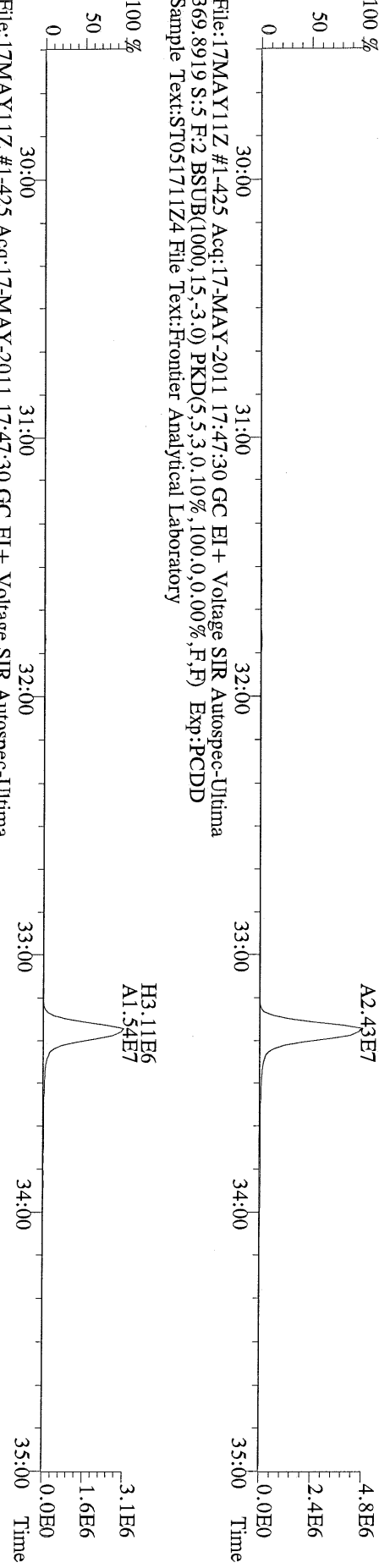
File:17MAY11Z #1-425 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



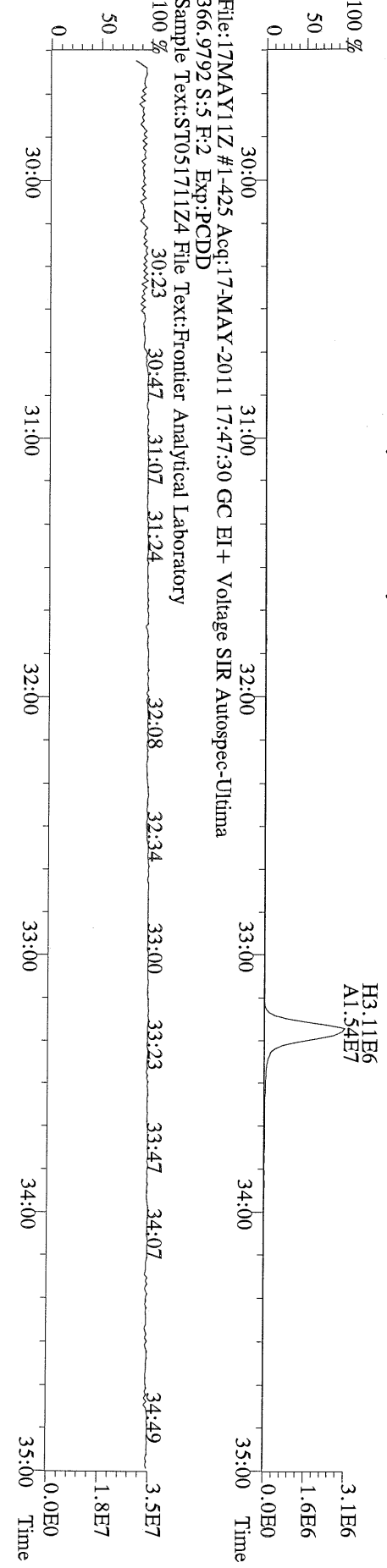
File:17MAY11Z #1-425 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



File:17MAY11Z #1-425 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %

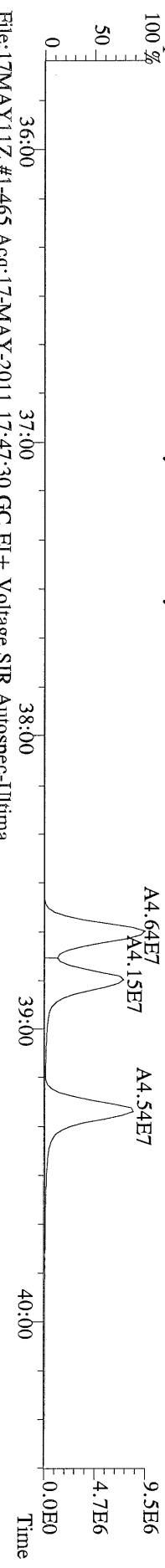


File:17MAY11Z #1-425 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory

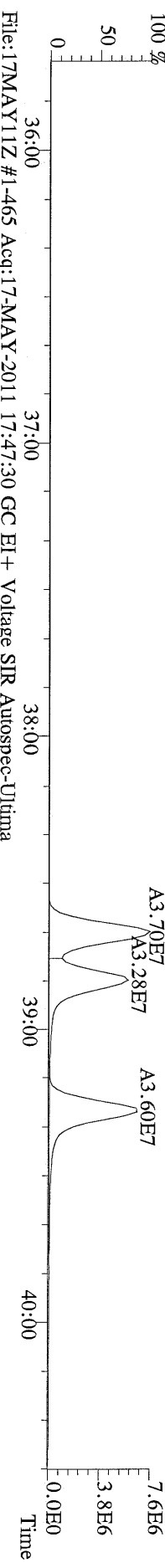


File:17MAY11Z #1-425 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:5 F:2 Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory

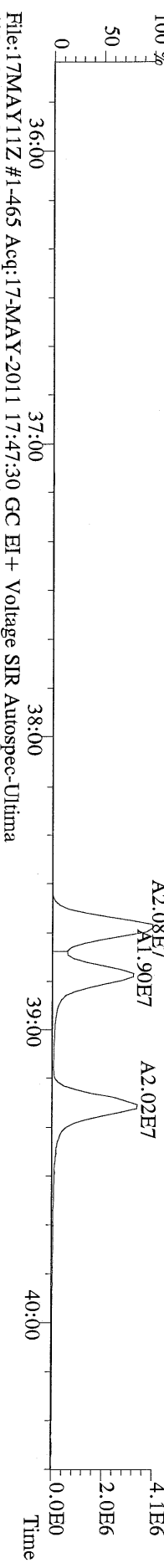
File:17MAY11Z #1-465 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



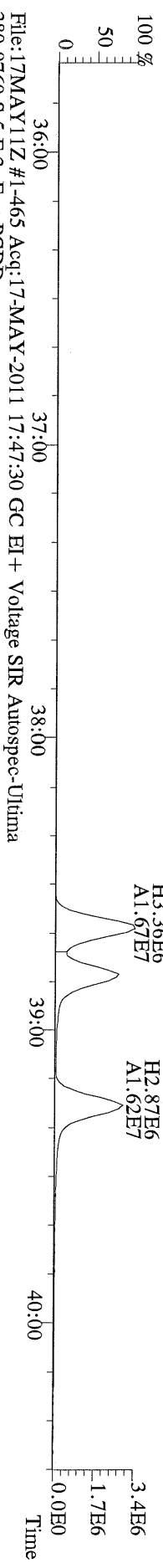
File:17MAY11Z #1-465 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



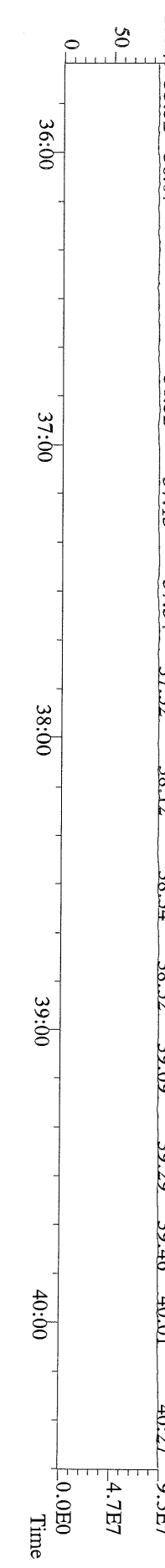
File:17MAY11Z #1-465 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



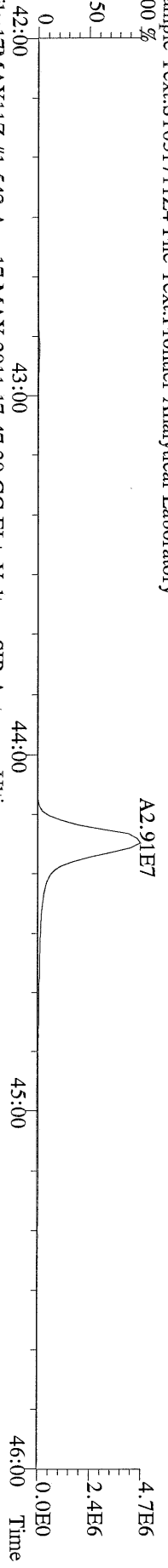
File:17MAY11Z #1-465 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



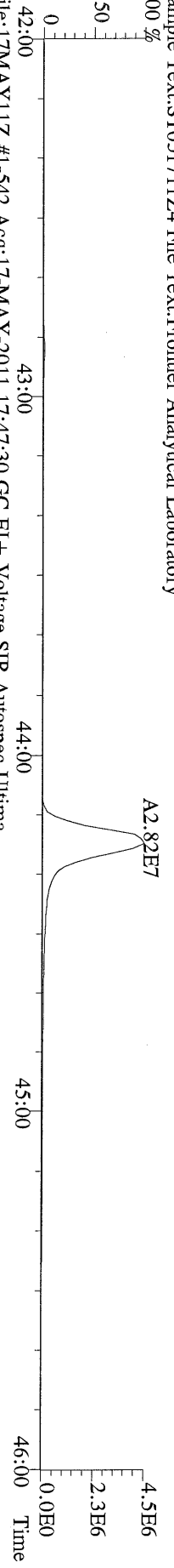
File:17MAY11Z #1-465 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:5 F:3 Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



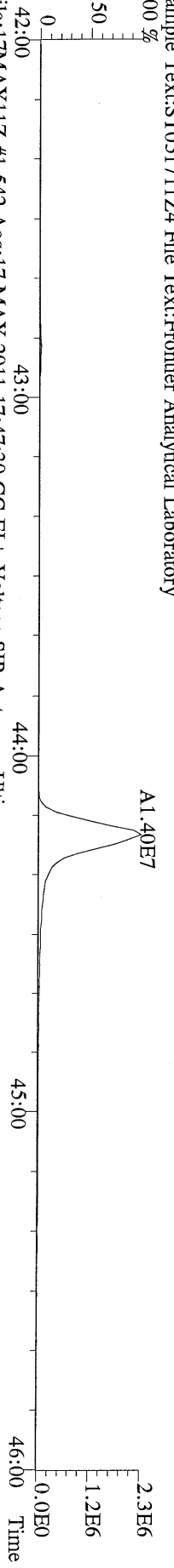
File:17MAY11Z #1-542 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



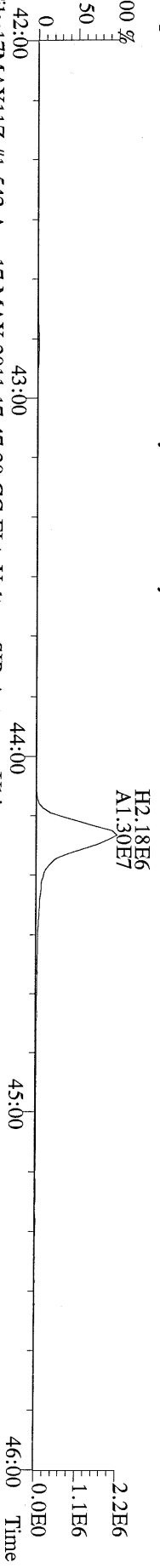
File:17MAY11Z #1-542 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



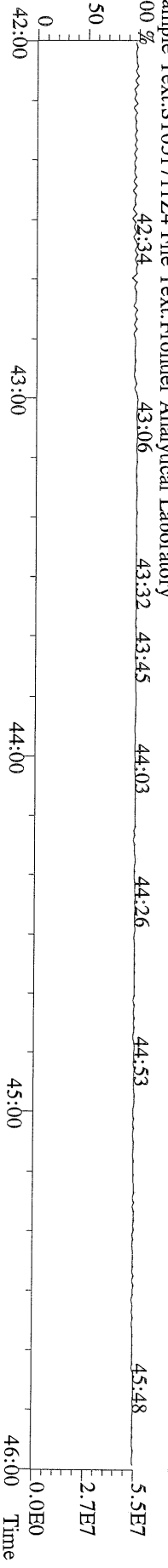
File:17MAY11Z #1-542 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



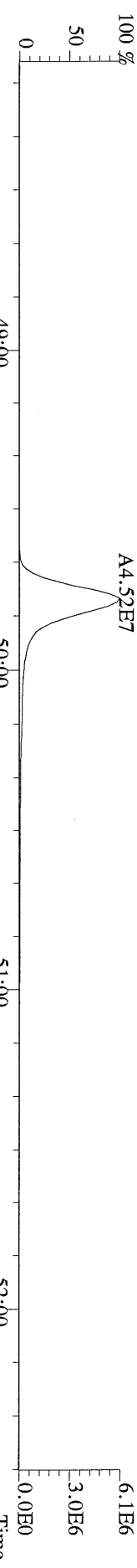
File:17MAY11Z #1-542 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



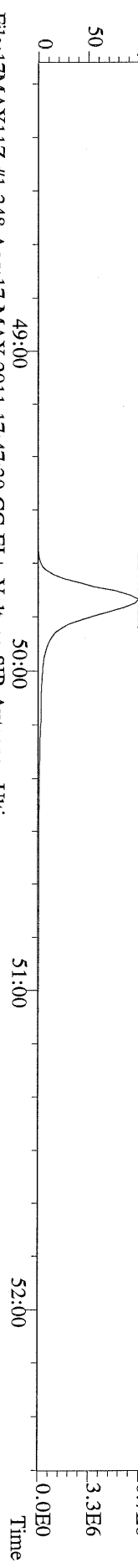
File:17MAY11Z #1-542 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:5 F:4 Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



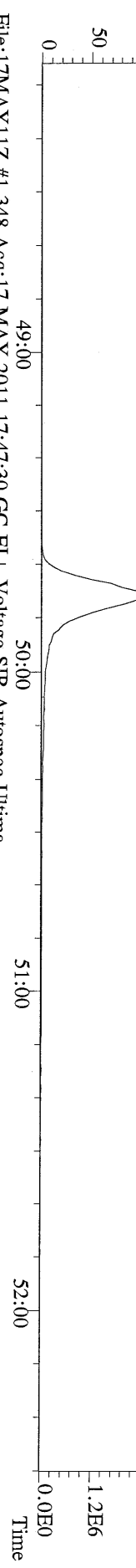
File:17MAY11Z #1-348 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



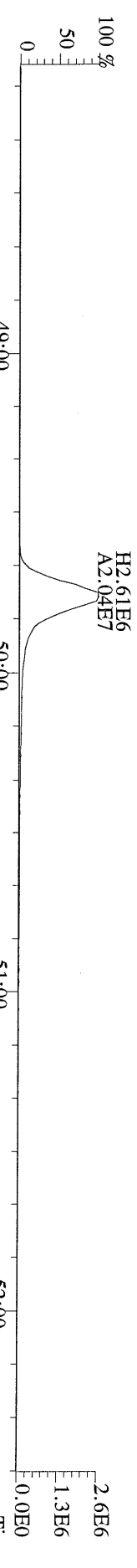
File:17MAY11Z #1-348 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



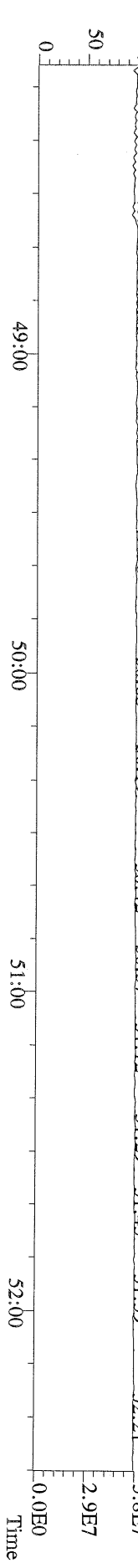
File:17MAY11Z #1-348 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



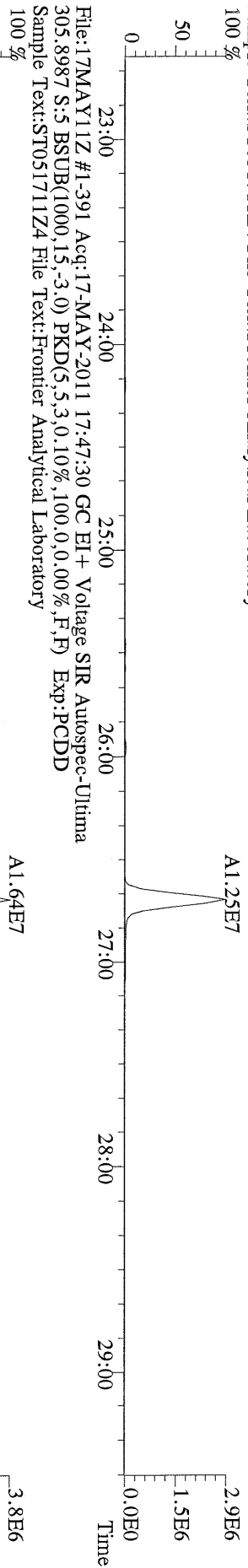
File:17MAY11Z #1-348 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



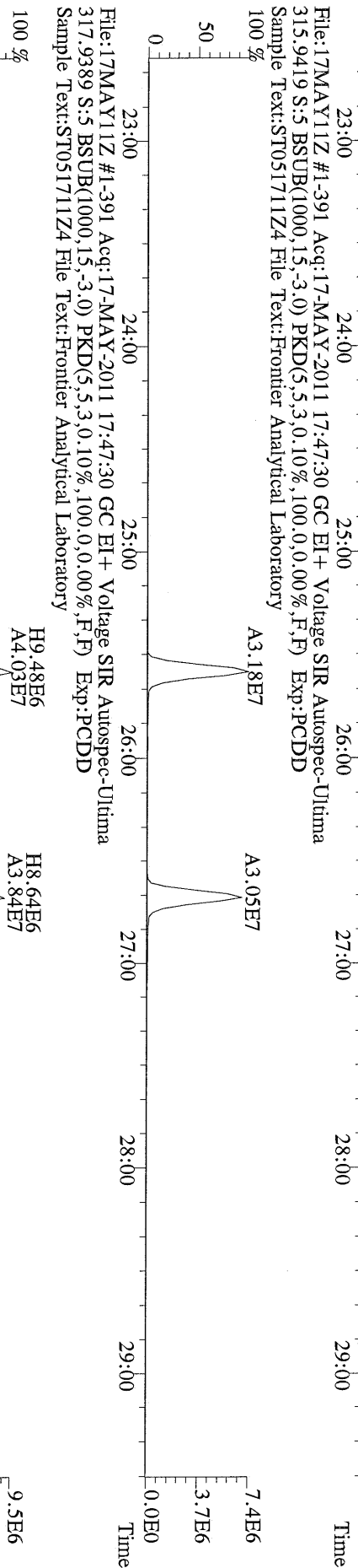
File:17MAY11Z #1-348 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:5 F:5 Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



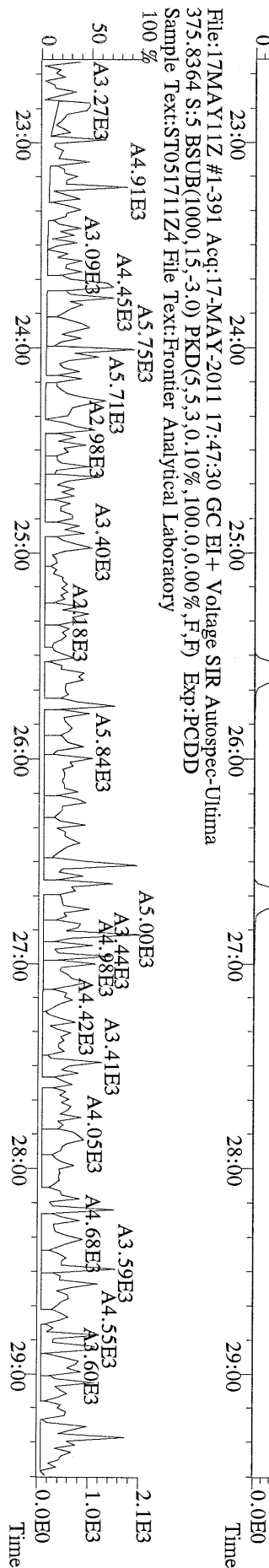
File:17MAY11Z #1-391 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



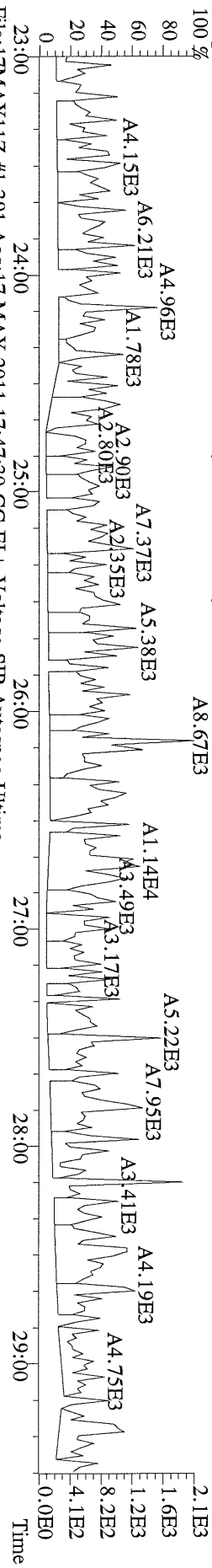
File:17MAY11Z #1-391 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



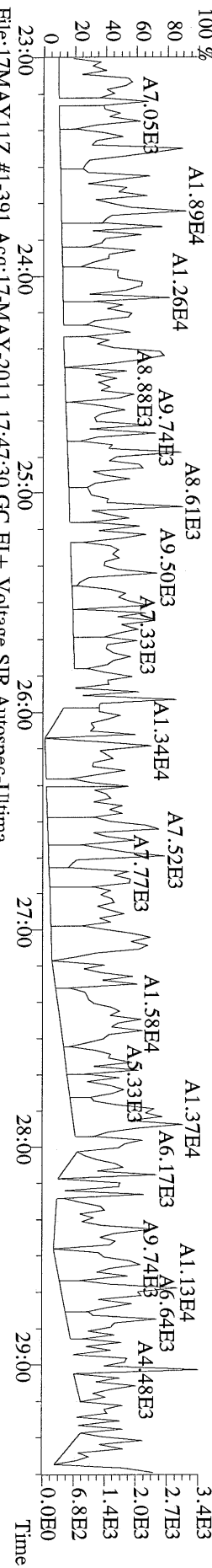
File:17MAY11Z #1-391 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



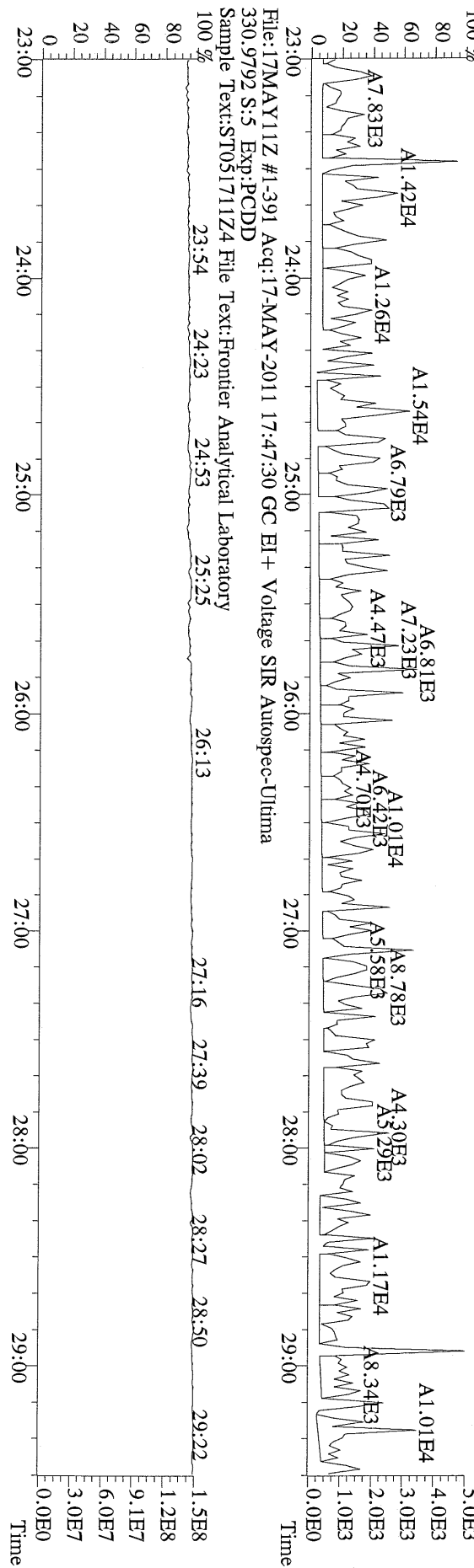
File:17MAY11Z #1-391 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



File:17MAY11Z #1-391 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory

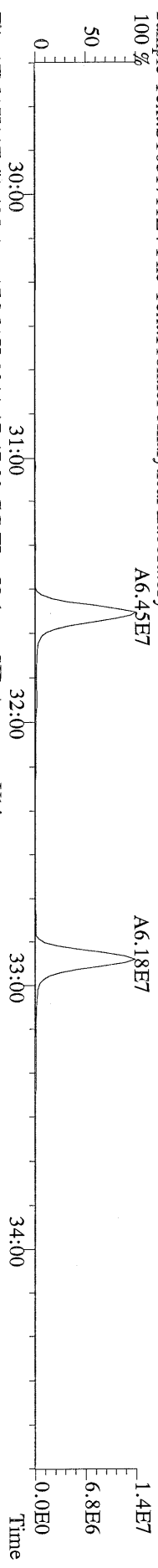


File:17MAY11Z #1-391 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory

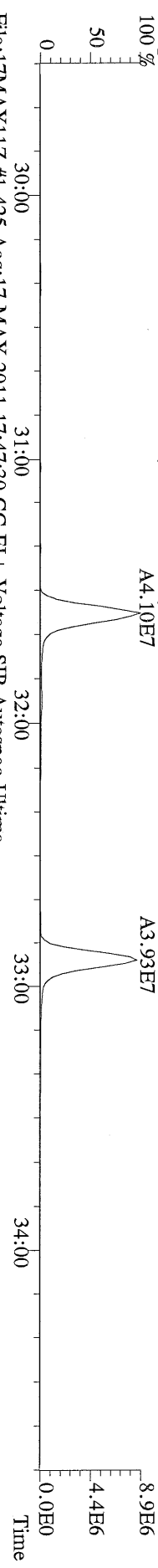


File:17MAY11Z #1-391 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S:5 Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory

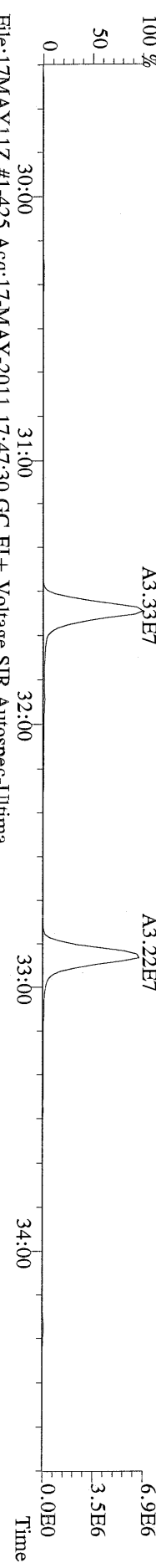
File:17MAY11Z #1-425 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



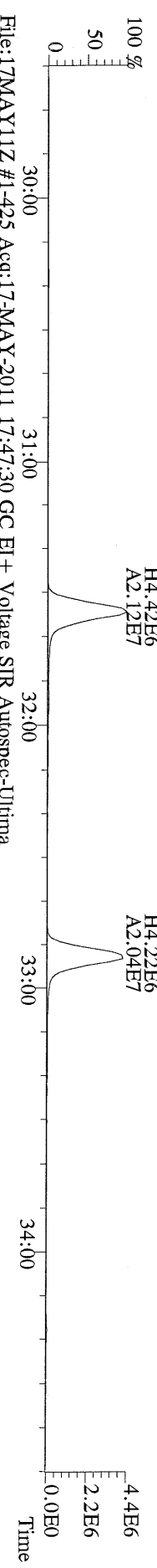
File:17MAY11Z #1-425 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



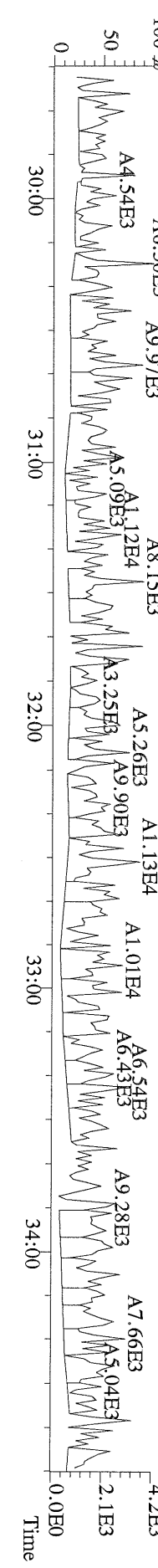
File:17MAY11Z #1-425 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



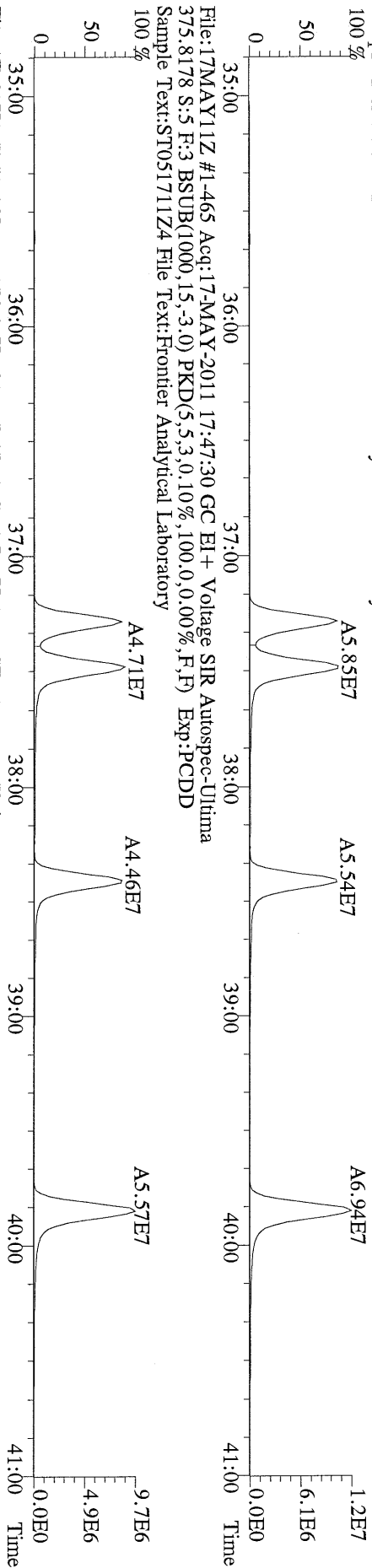
File:17MAY11Z #1-425 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



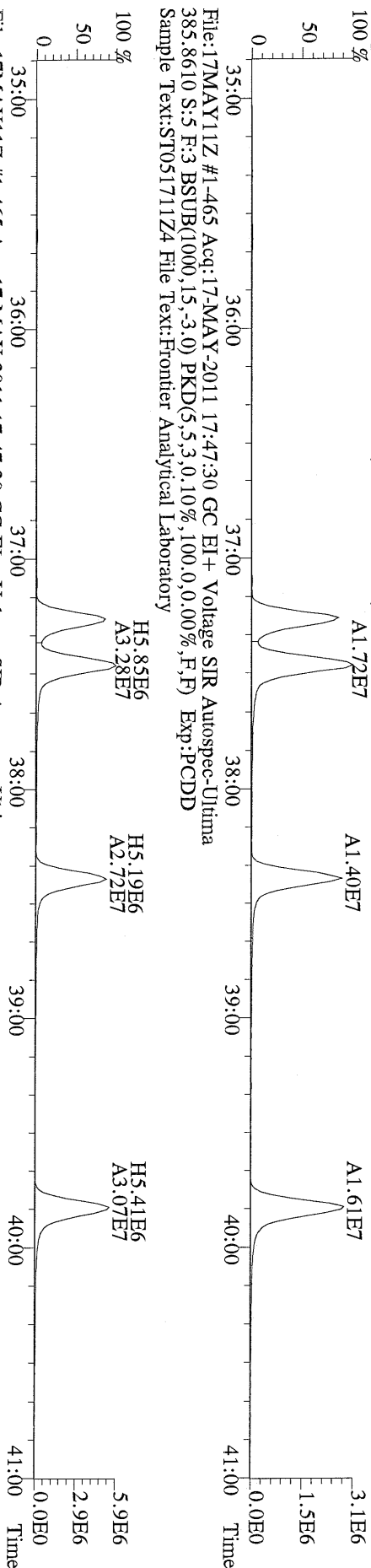
File:17MAY11Z #1-425 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



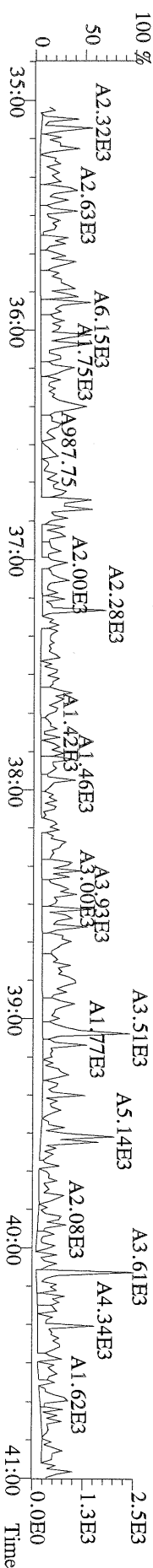
File:17MAY11Z #1-465 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



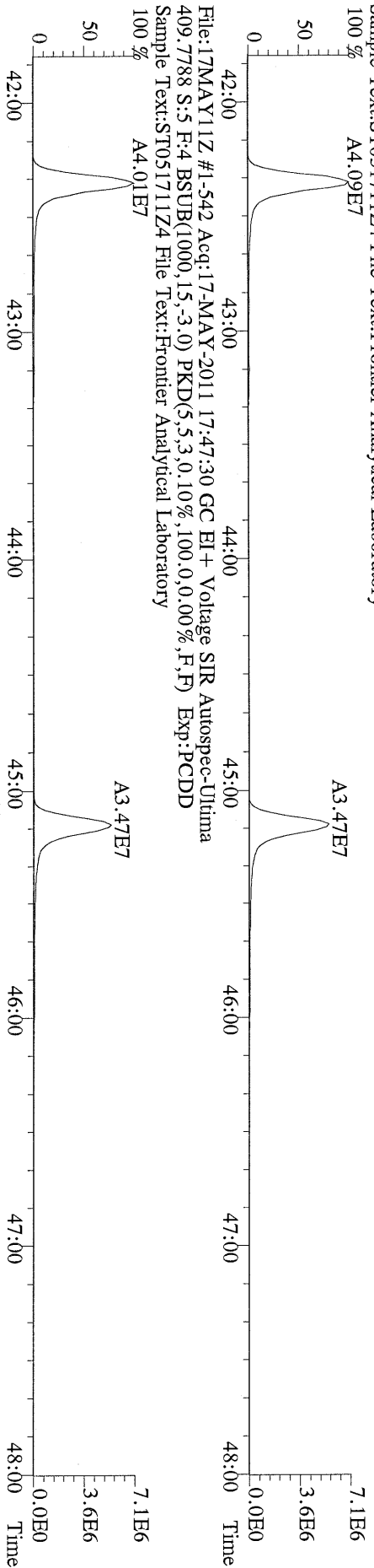
File:17MAY11Z #1-465 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



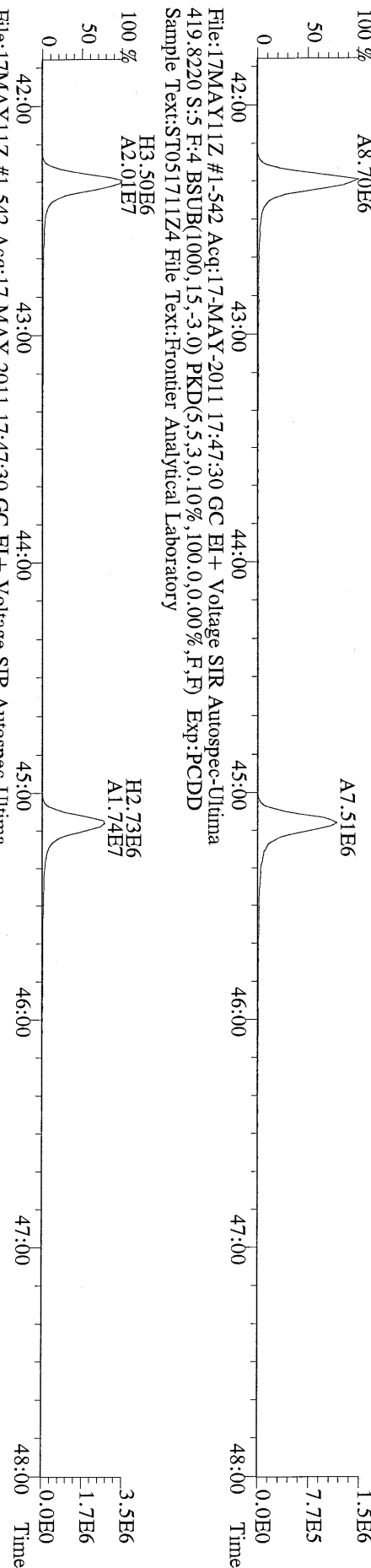
File:17MAY11Z #1-465 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



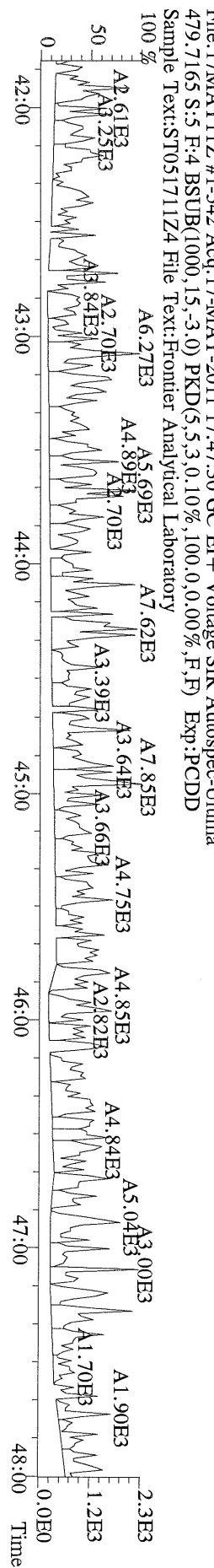
File: 17MAY11Z #1-542 Acq: 17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S.S: F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text: ST051711Z4 File Text: Frontier Analytical Laboratory



File: 17MAY11Z #1-542 Acq: 17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S.S: F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text: ST051711Z4 File Text: Frontier Analytical Laboratory

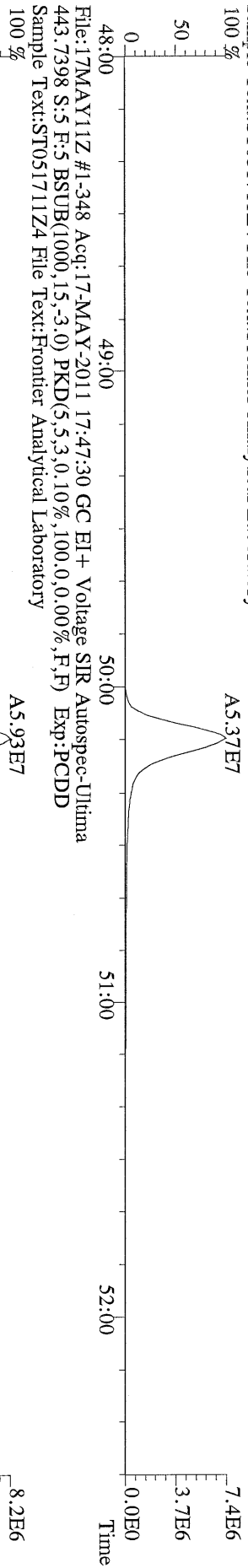


File: 17MAY11Z #1-542 Acq: 17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S.S: F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text: ST051711Z4 File Text: Frontier Analytical Laboratory

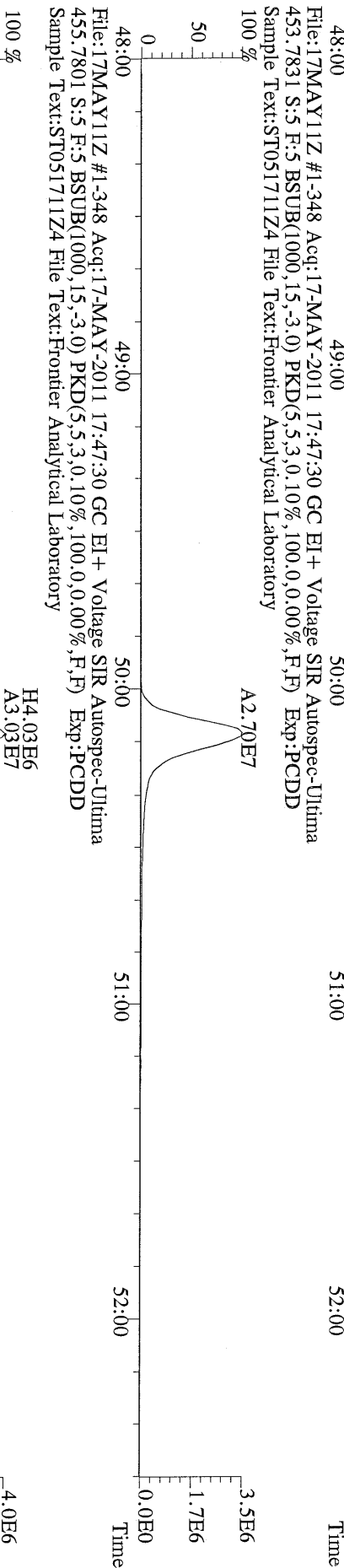


File: 17MAY11Z #1-542 Acq: 17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S.S: F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text: ST051711Z4 File Text: Frontier Analytical Laboratory

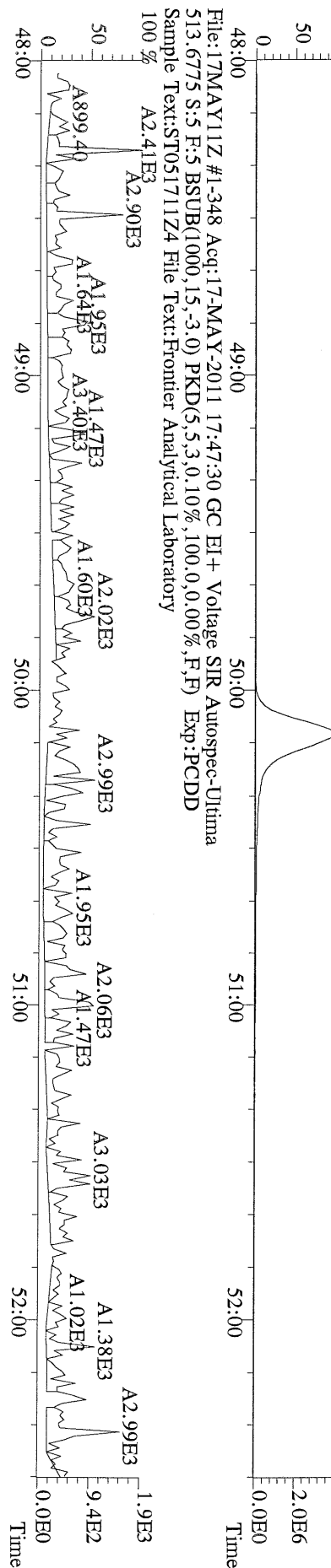
File: 17MAY11Z #1-348 Acq: 17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:5 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



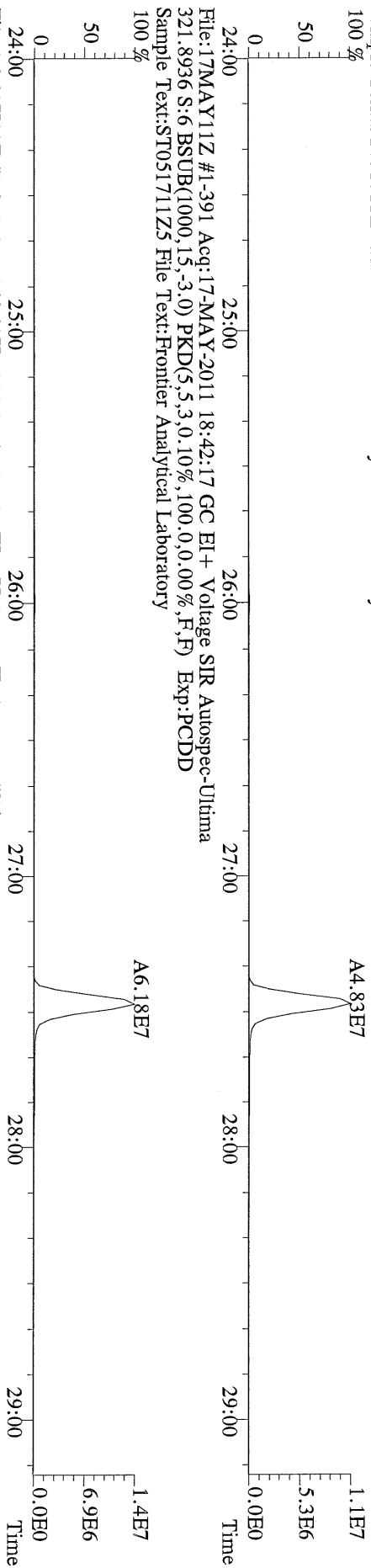
File: 17MAY11Z #1-348 Acq: 17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:5 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



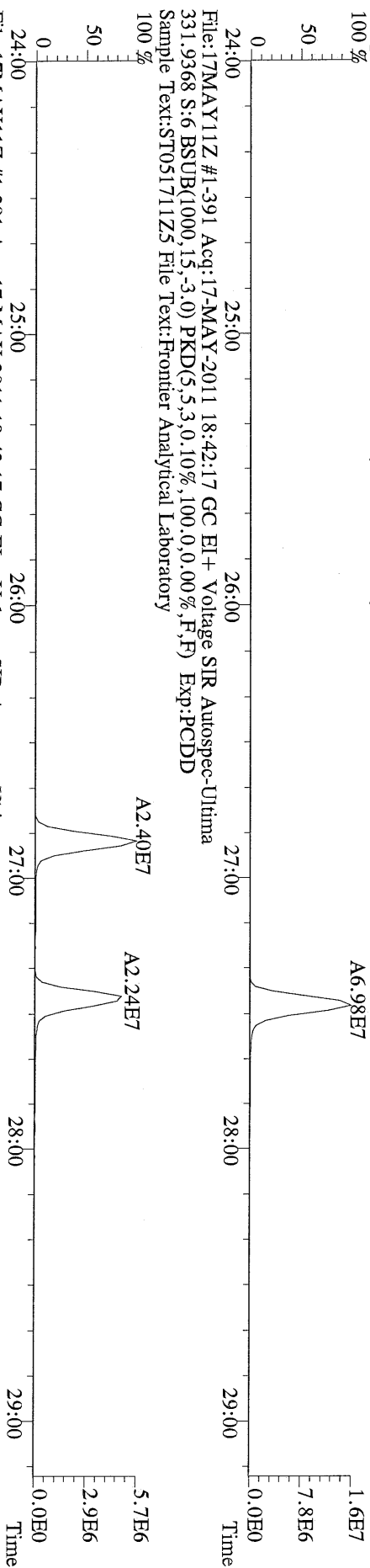
File: 17MAY11Z #1-348 Acq: 17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:5 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



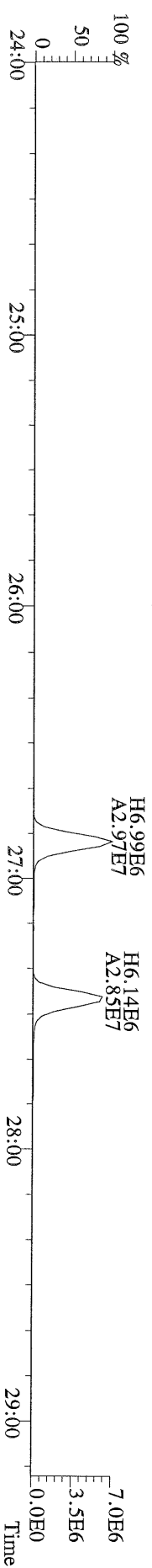
File:17MAY11Z #1-391 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:6 BSUB(1000,15,-3,0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



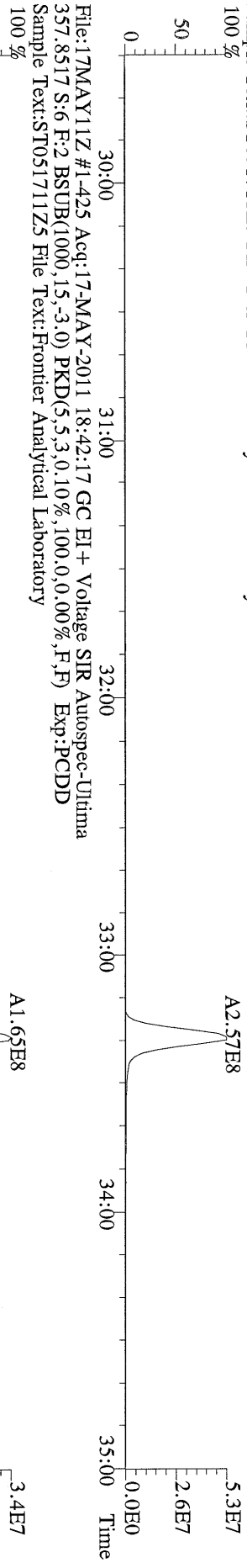
File:17MAY11Z #1-391 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:6 BSUB(1000,15,-3,0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



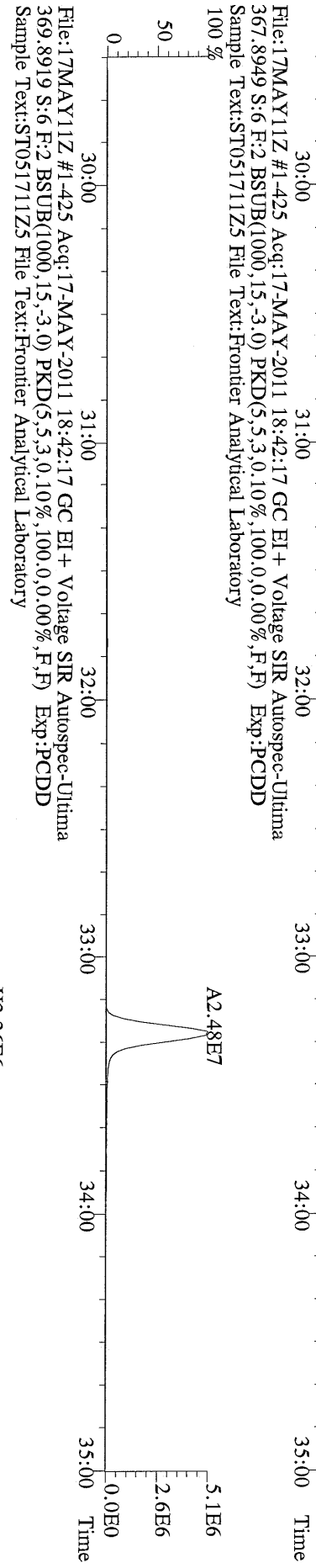
File:17MAY11Z #1-391 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:6 BSUB(1000,15,-3,0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



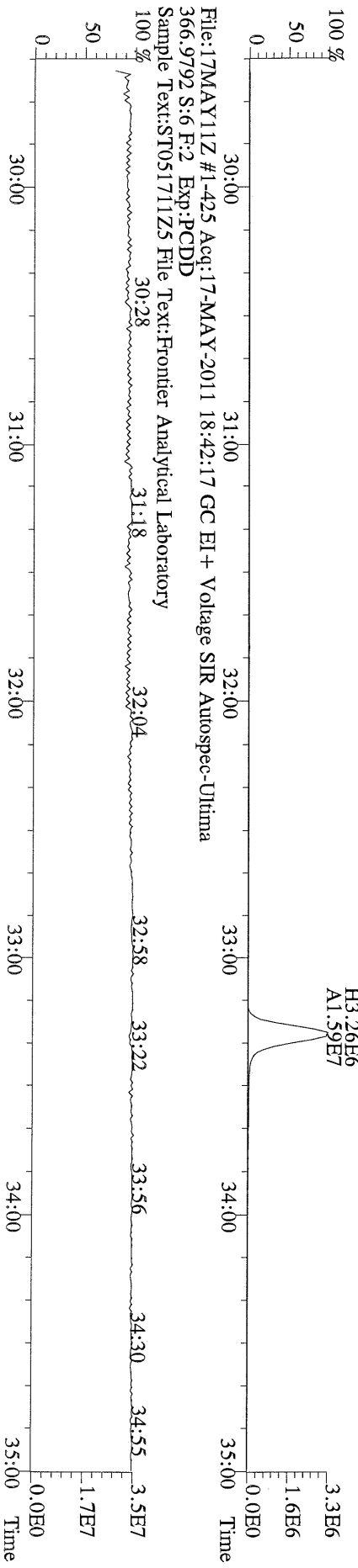
File:17MAY11Z #1-425 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:6 F:2 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



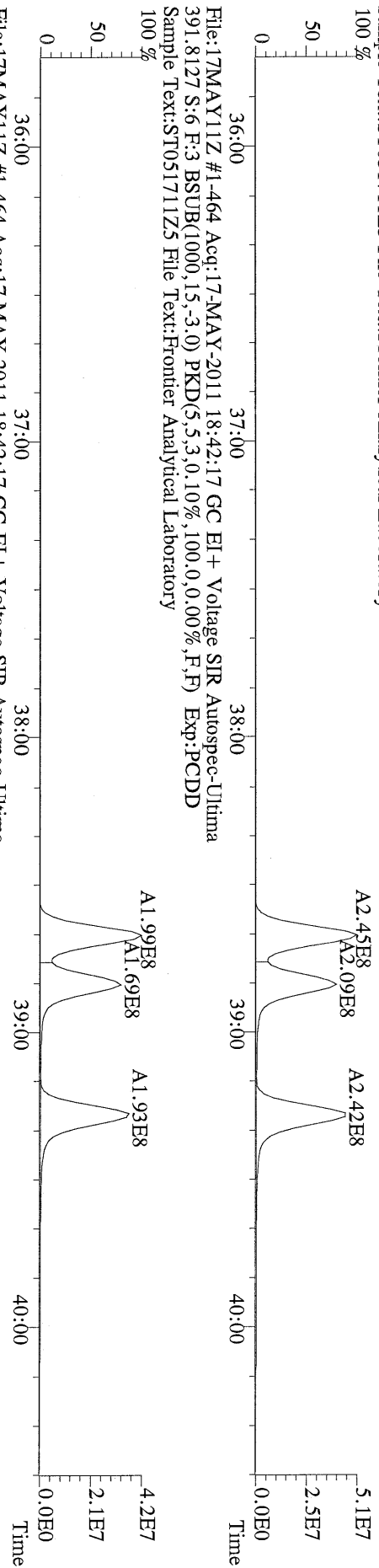
File:17MAY11Z #1-425 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:6 F:2 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



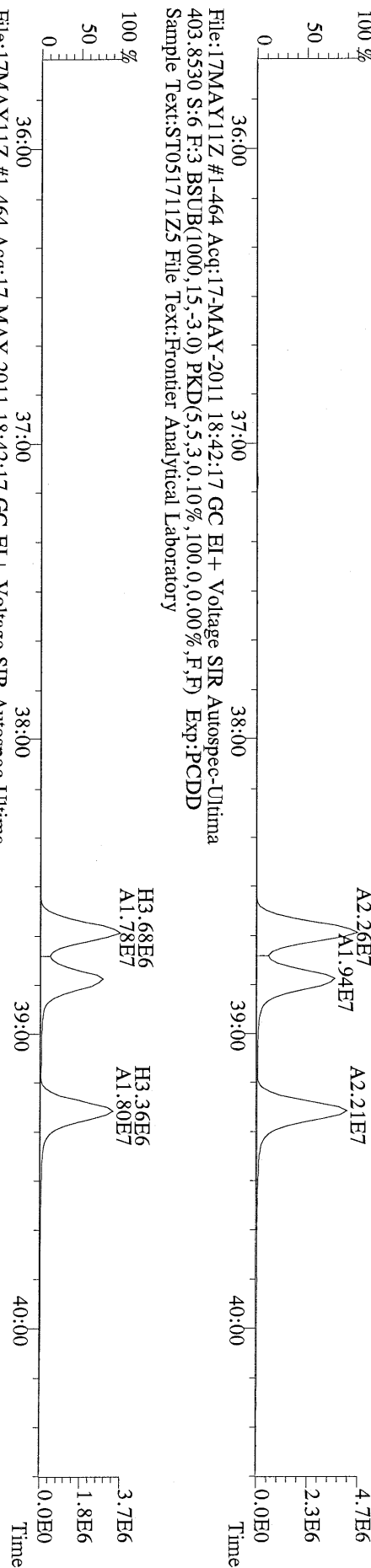
File:17MAY11Z #1-425 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:6 F:2 Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



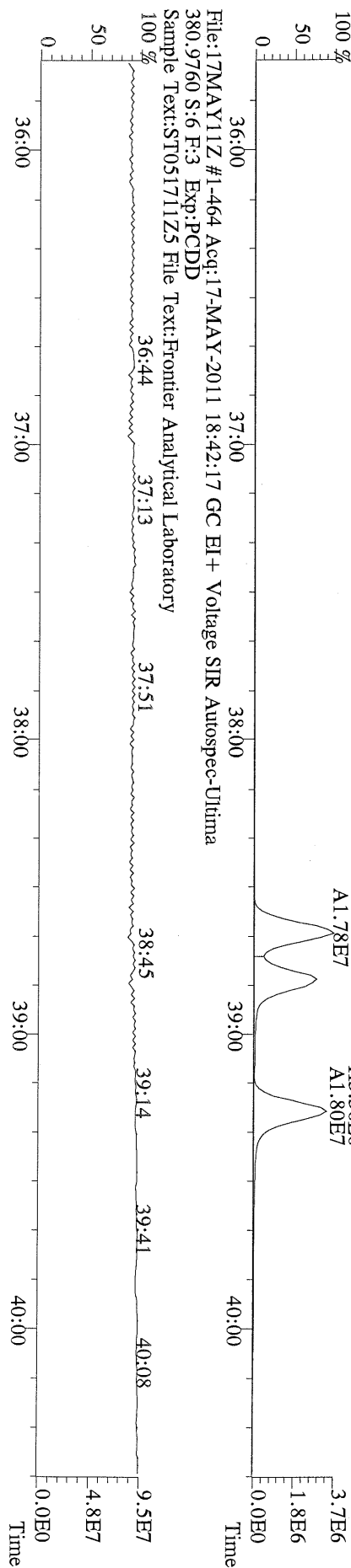
File:17MAY11Z #1-464 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Utima
389.8156 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



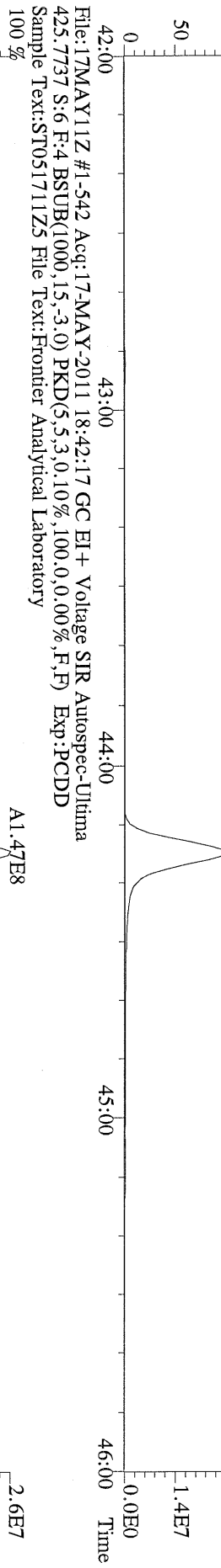
File:17MAY11Z #1-464 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Utima
401.8559 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



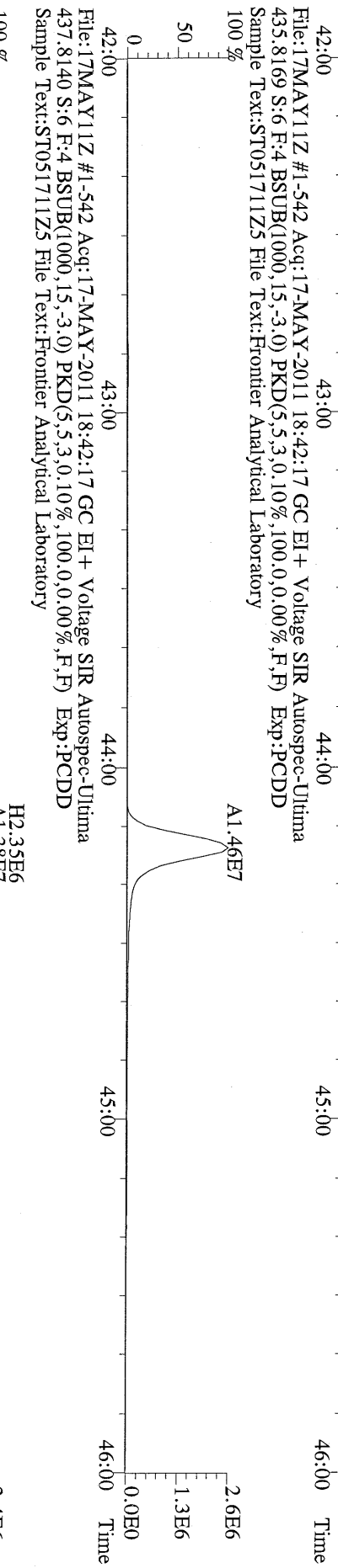
File:17MAY11Z #1-464 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Utima
403.8530 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



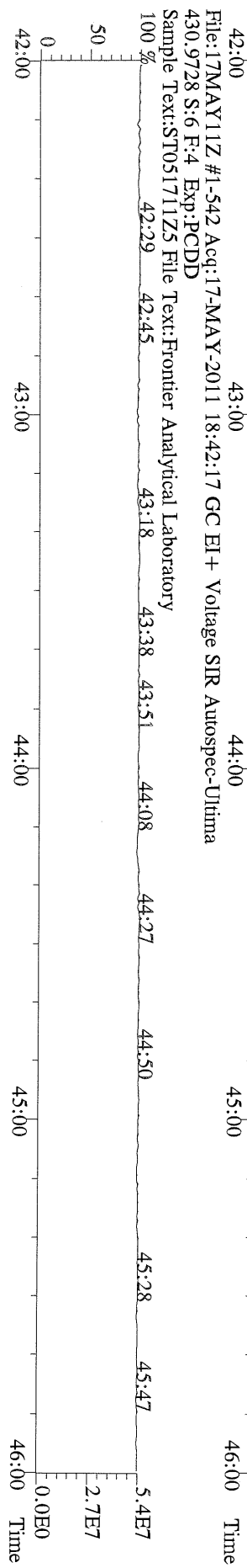
File:17MAY11Z #1-542 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:6 F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



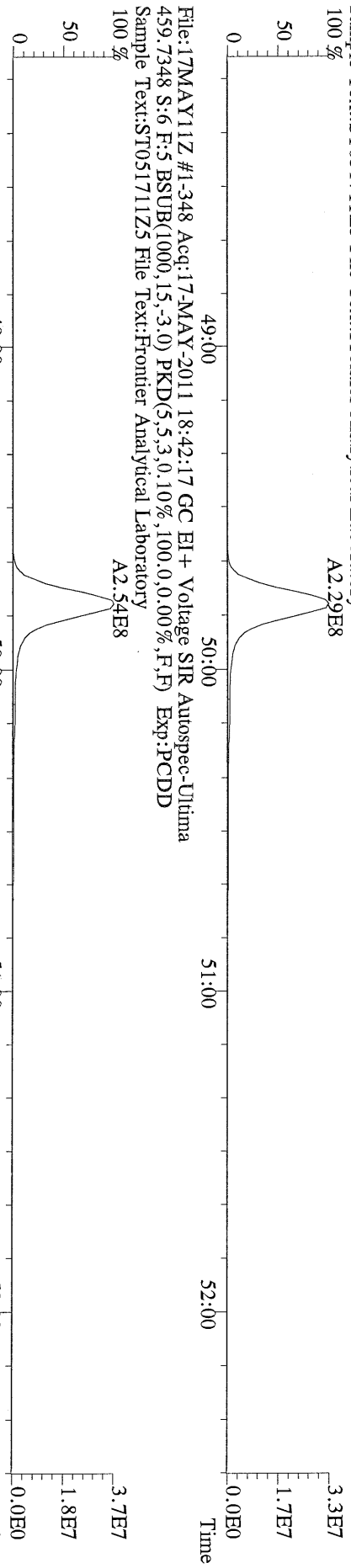
File:17MAY11Z #1-542 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:6 F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



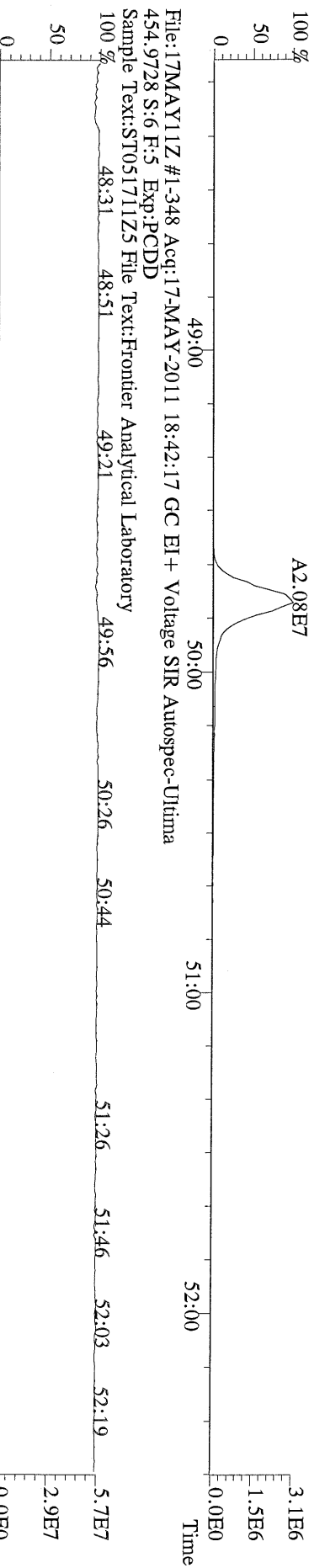
File:17MAY11Z #1-542 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:6 F:4 Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



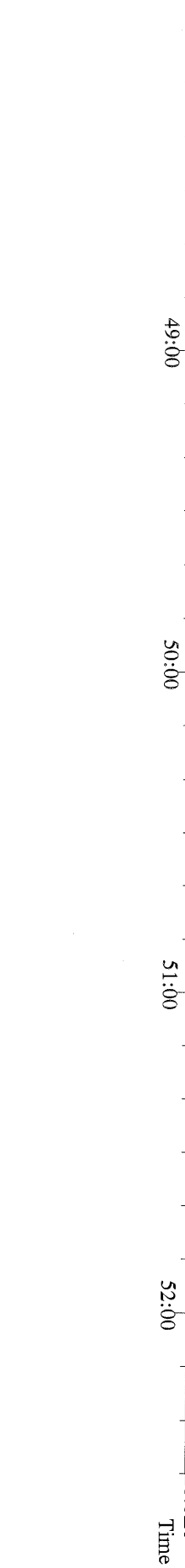
File:17MAY11Z #1-348 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:6 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



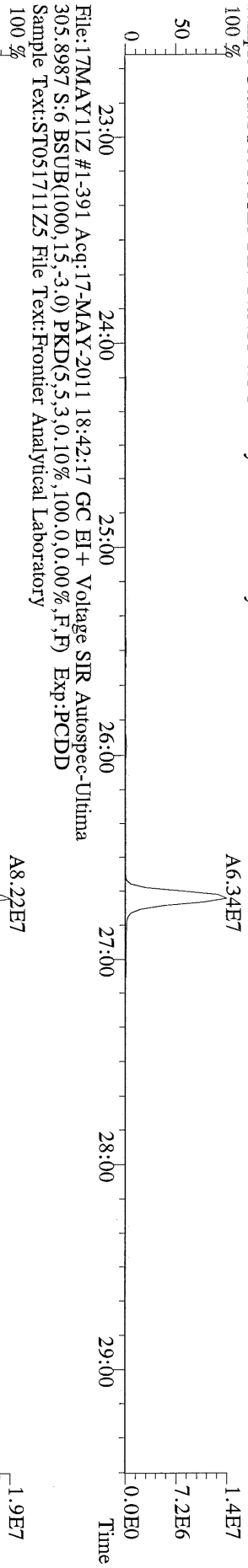
File:17MAY11Z #1-348 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:6 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



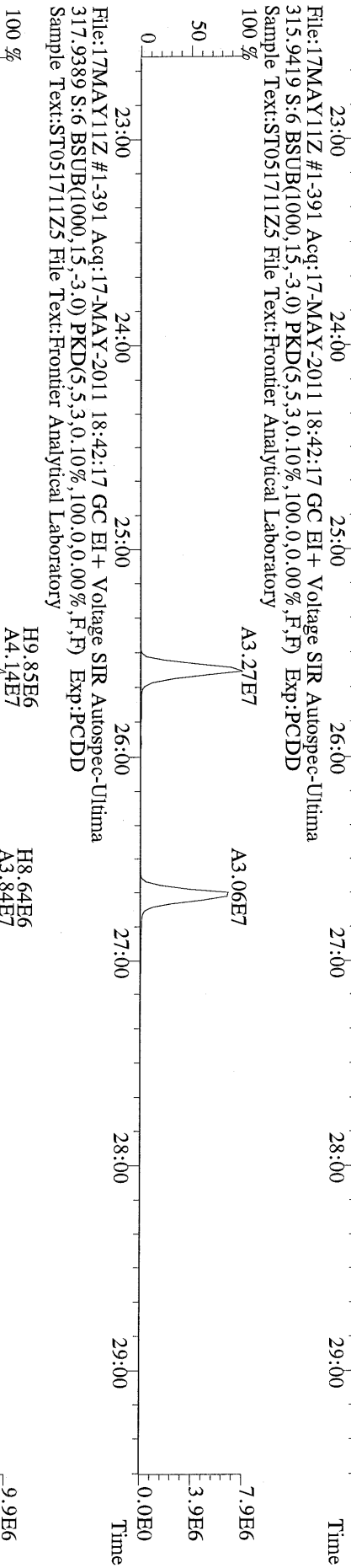
File:17MAY11Z #1-348 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:6 F:5 Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



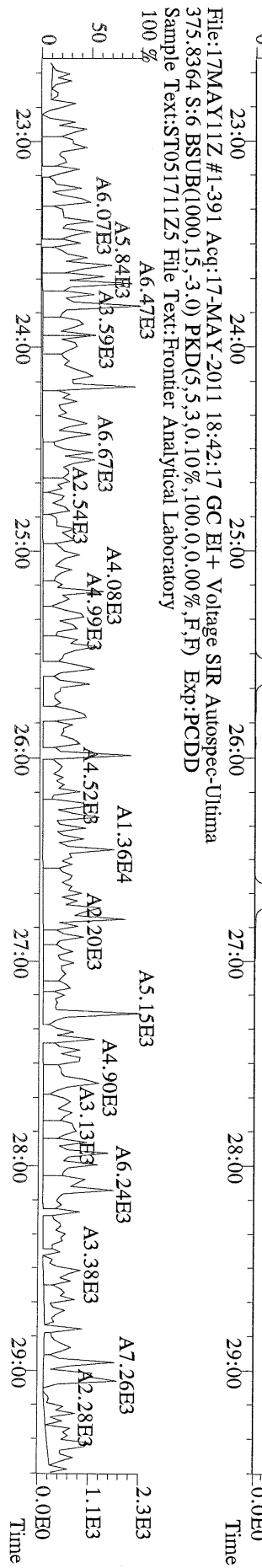
File:17MAY11Z #1-391 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:6 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



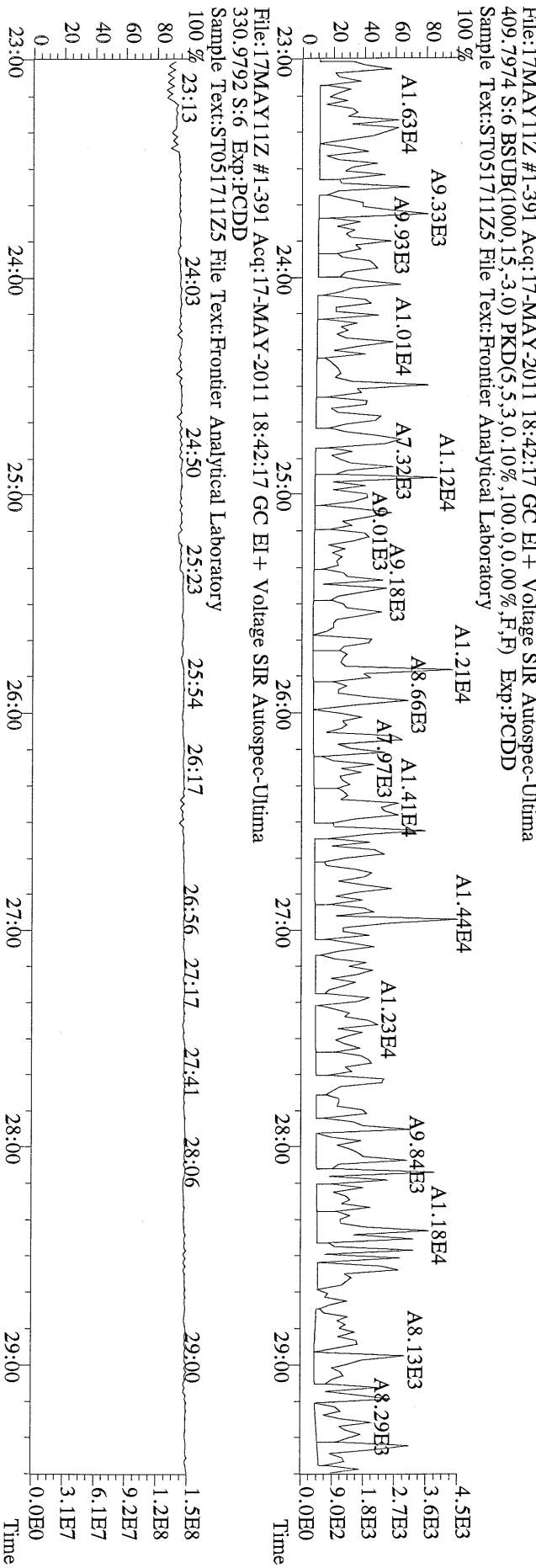
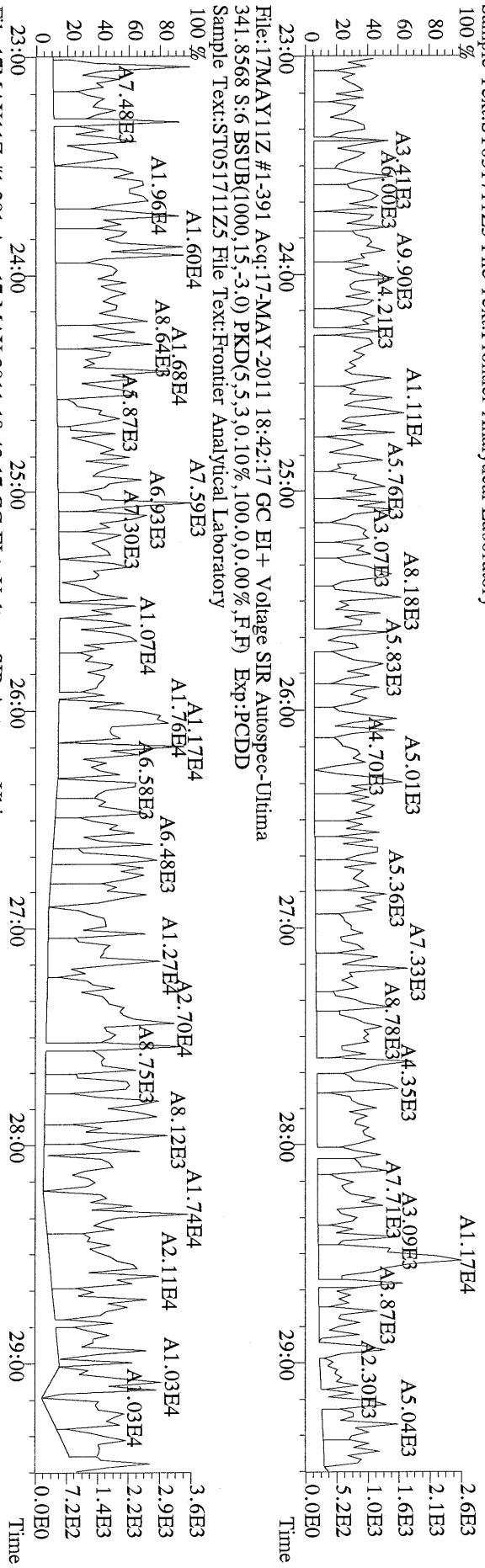
File:17MAY11Z #1-391 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:6 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



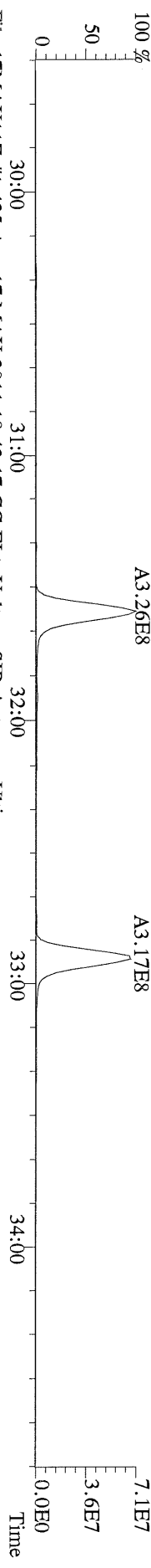
File:17MAY11Z #1-391 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:6 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



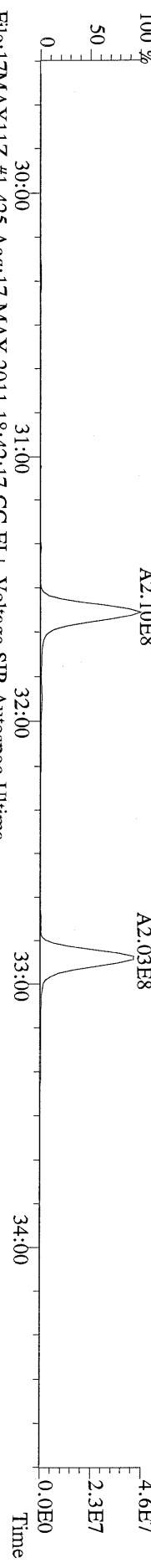
File:17MAY11Z #1-391 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
339.8568 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



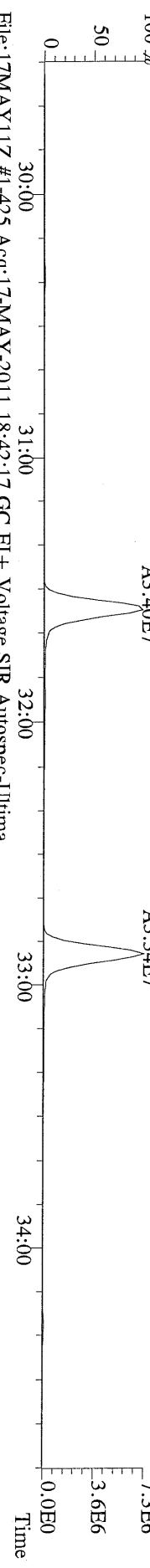
File:17MAY11Z #1-425 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



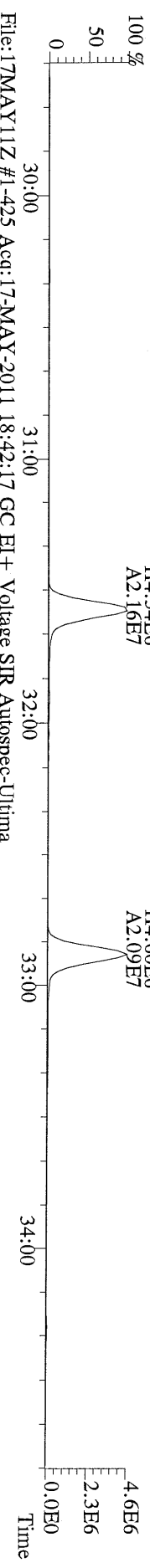
File:17MAY11Z #1-425 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



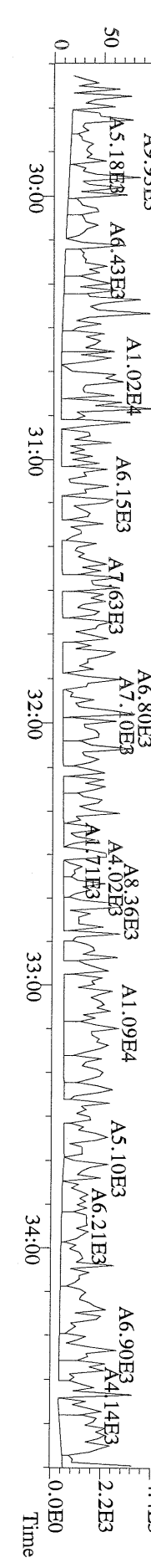
File:17MAY11Z #1-425 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



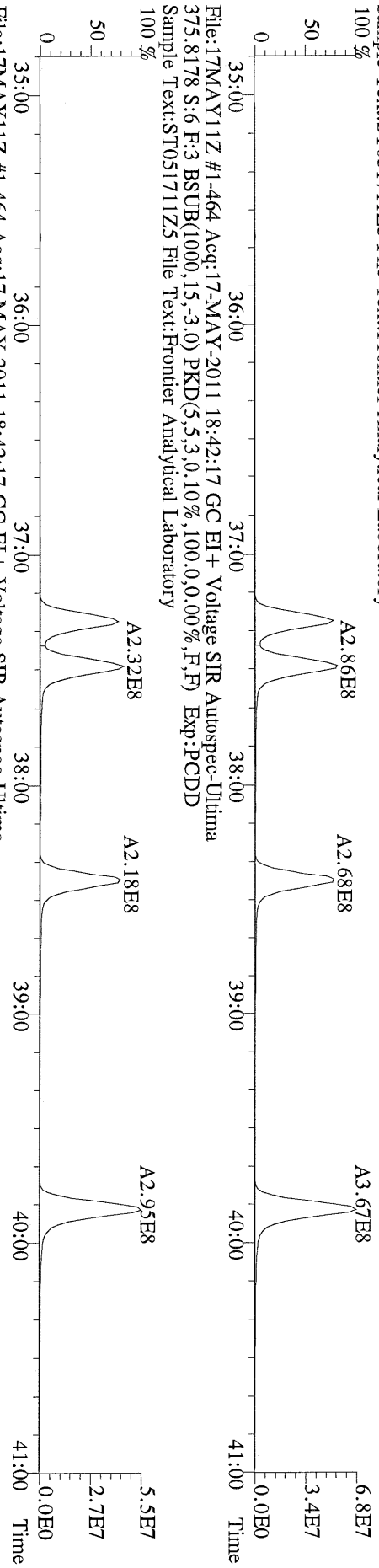
File:17MAY11Z #1-425 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



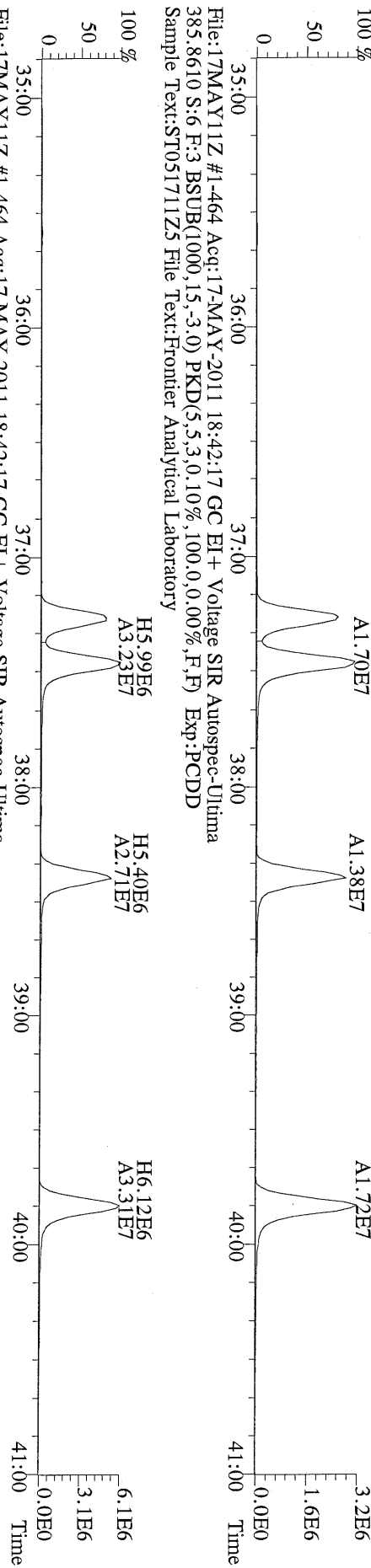
File:17MAY11Z #1-425 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



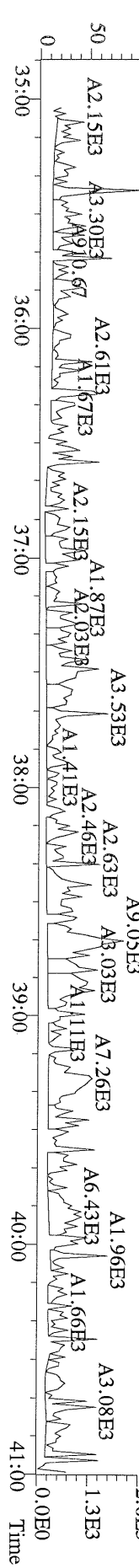
File: 17MAY11Z #1-464 Acq: 17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



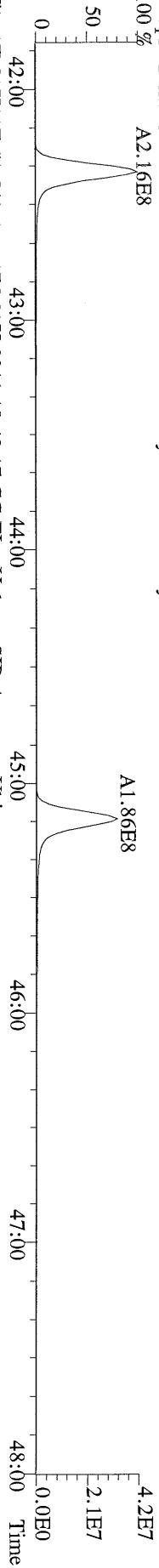
File: 17MAY11Z #1-464 Acq: 17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



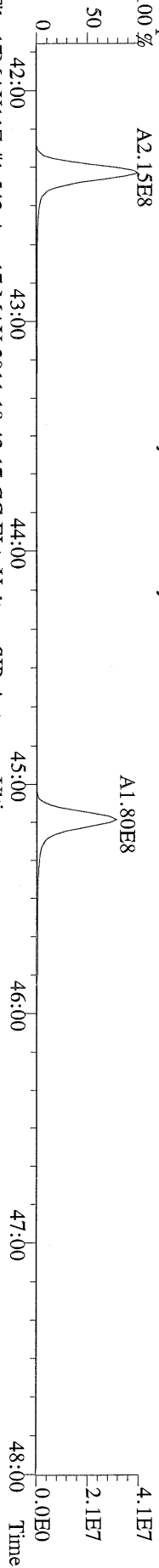
File: 17MAY11Z #1-464 Acq: 17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



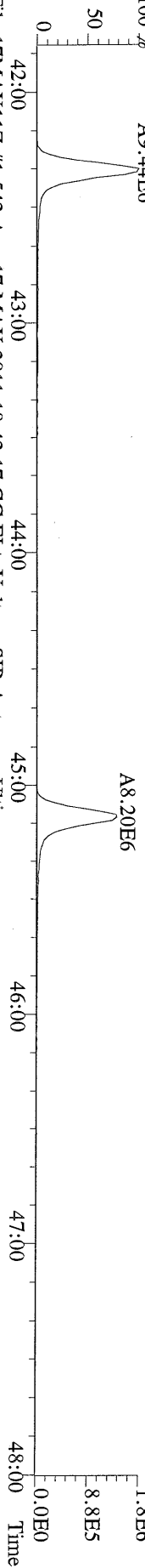
File:17MAY11Z #1-542 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



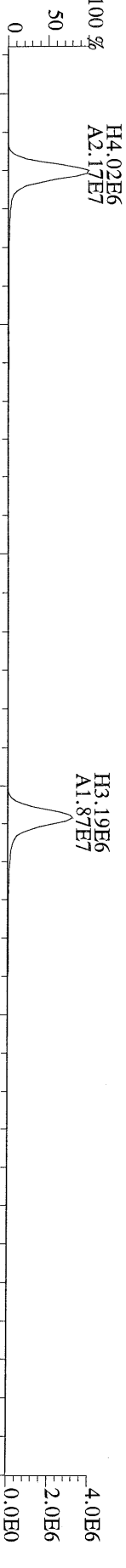
File:17MAY11Z #1-542 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



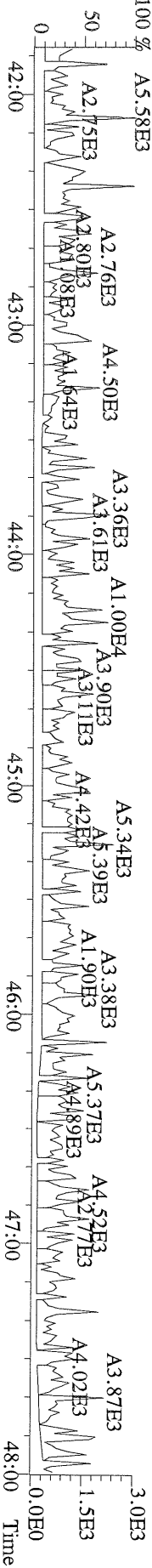
File:17MAY11Z #1-542 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



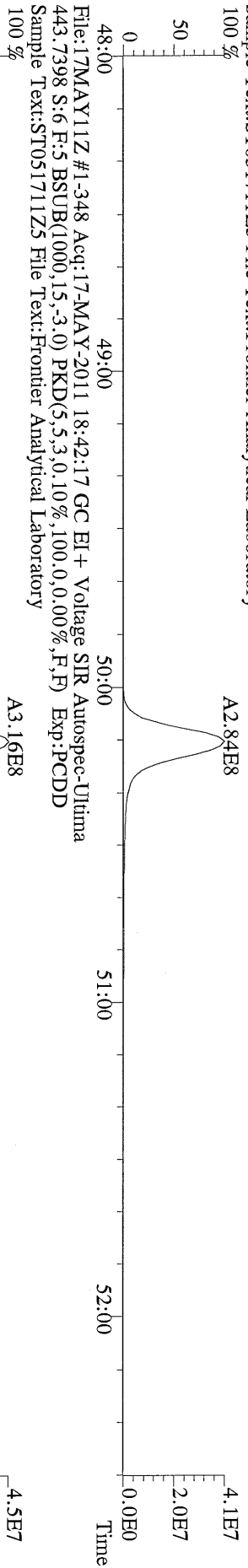
File:17MAY11Z #1-542 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



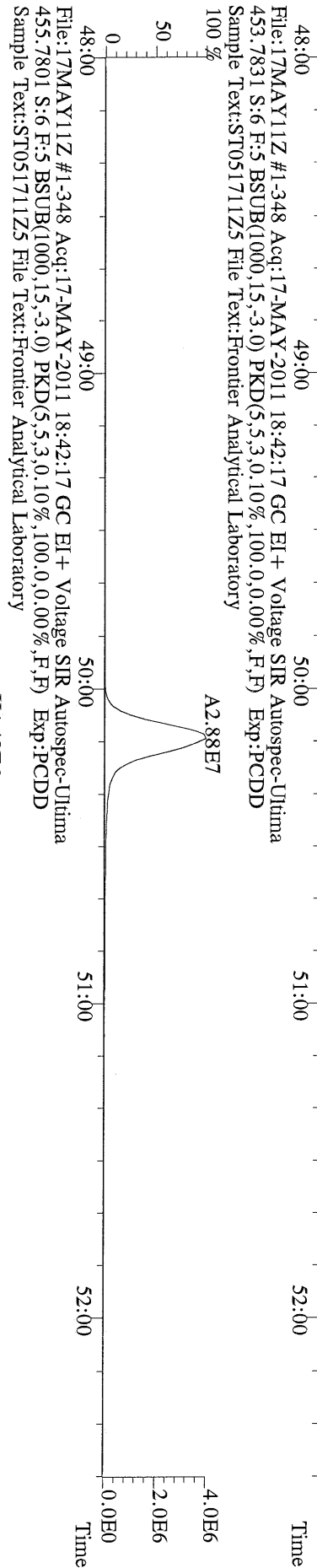
File:17MAY11Z #1-542 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



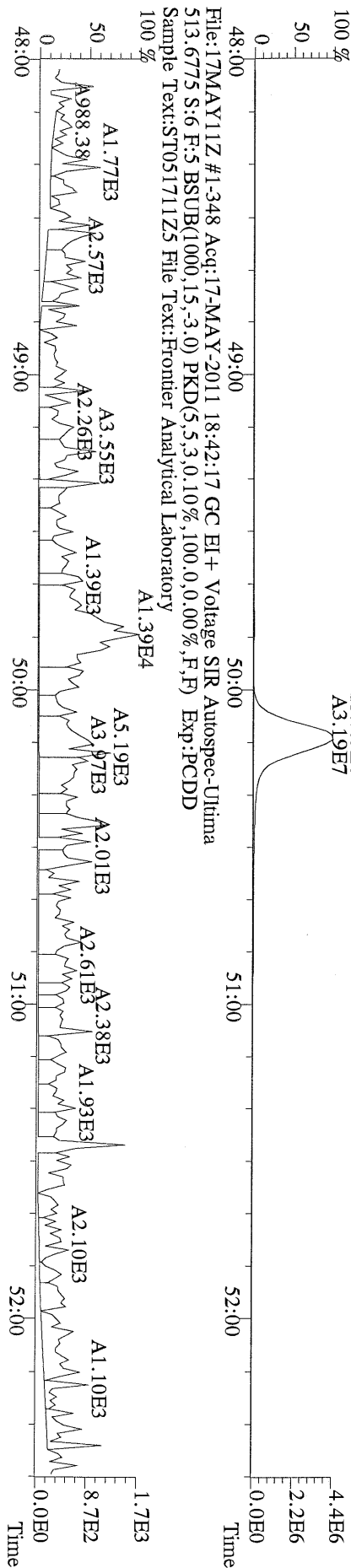
File:17MAY11Z #1-348 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %

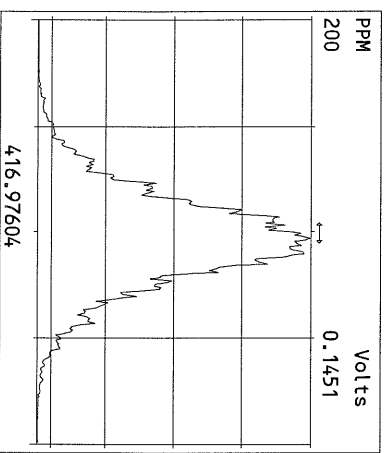
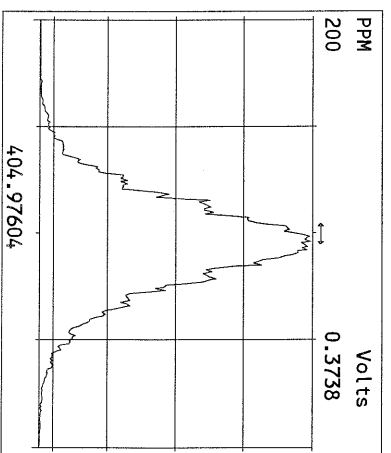
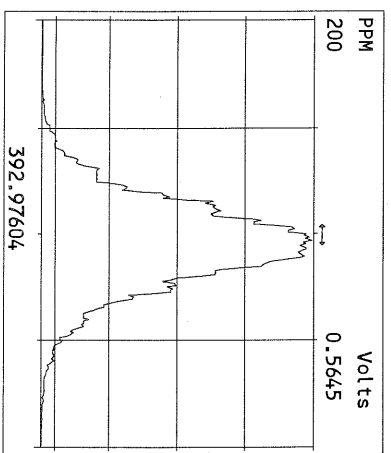
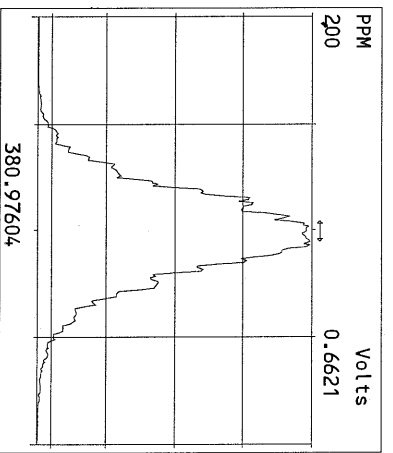
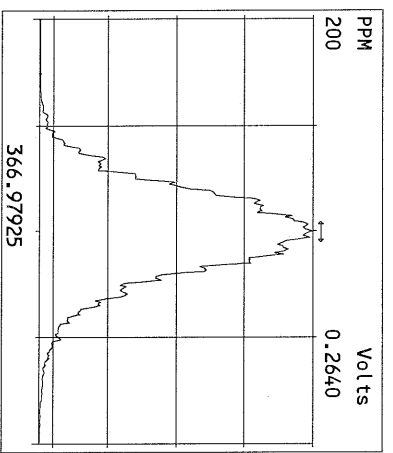
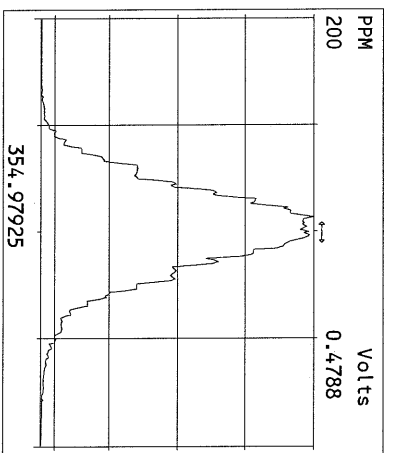
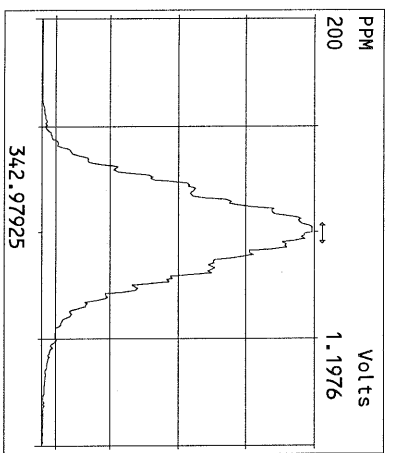
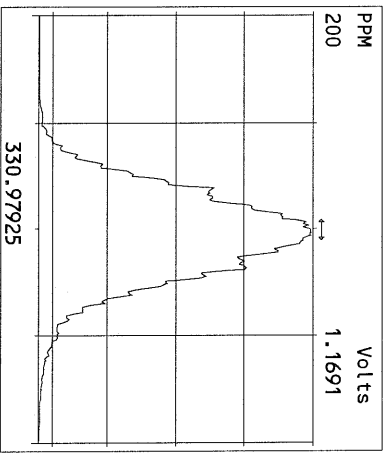
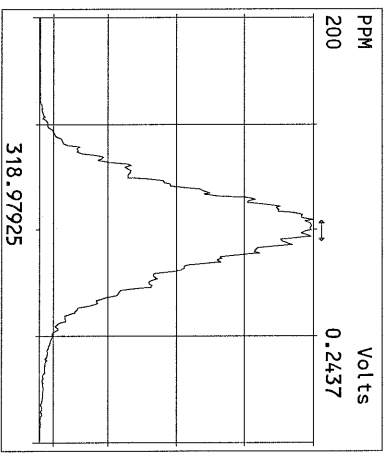
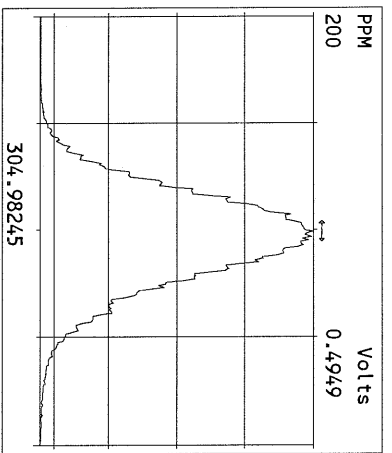
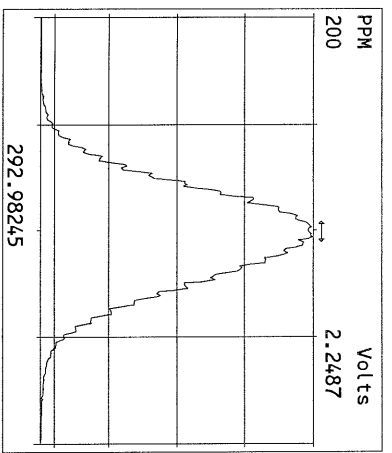


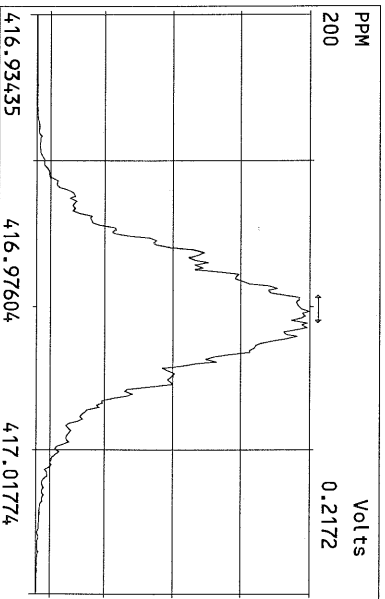
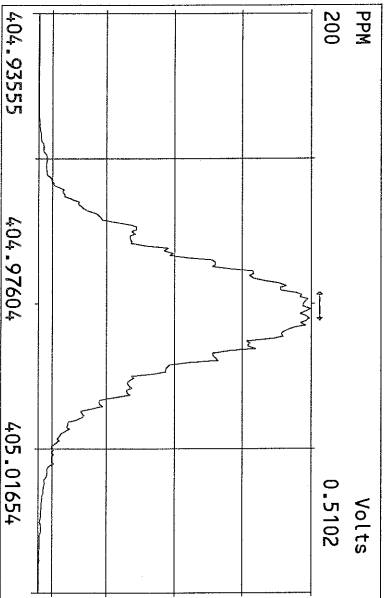
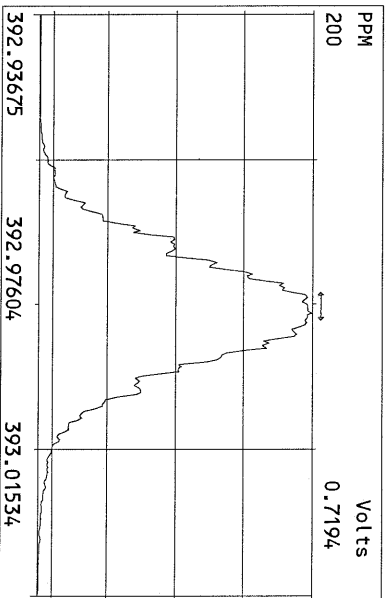
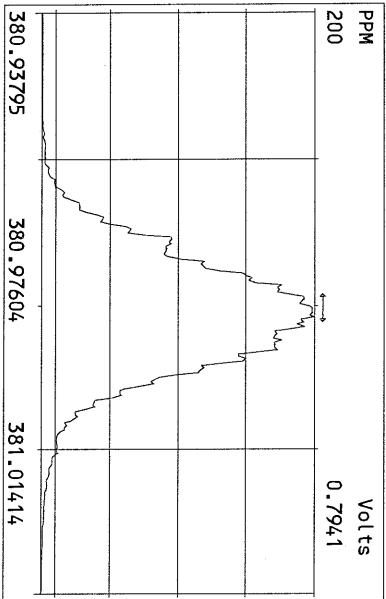
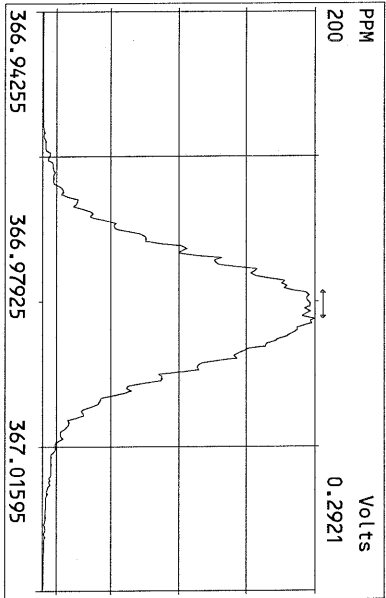
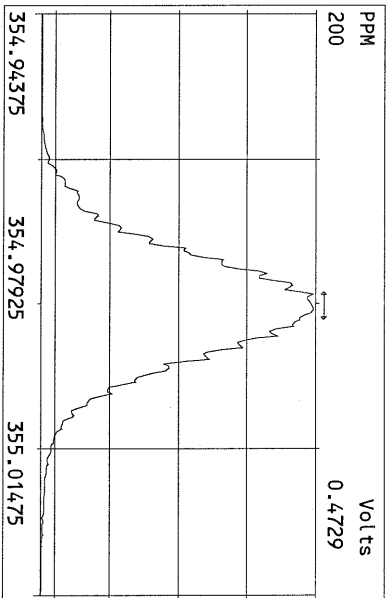
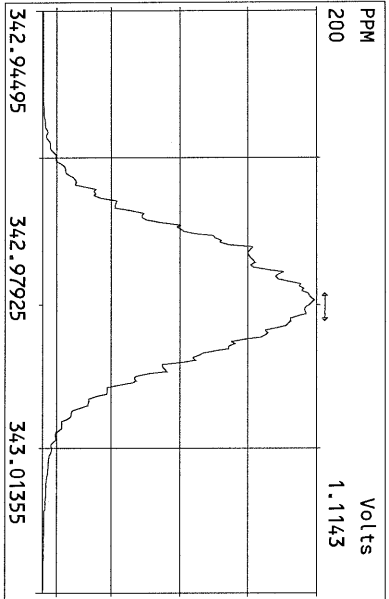
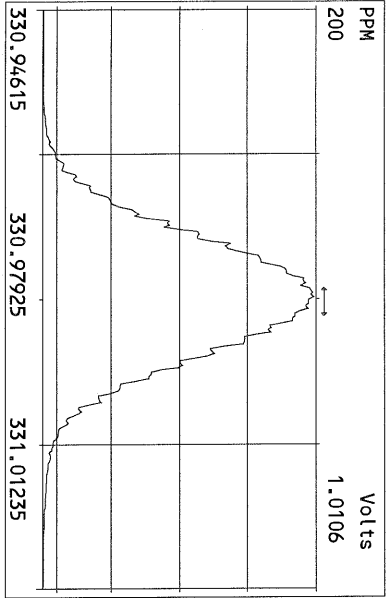
File:17MAY11Z #1-348 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %

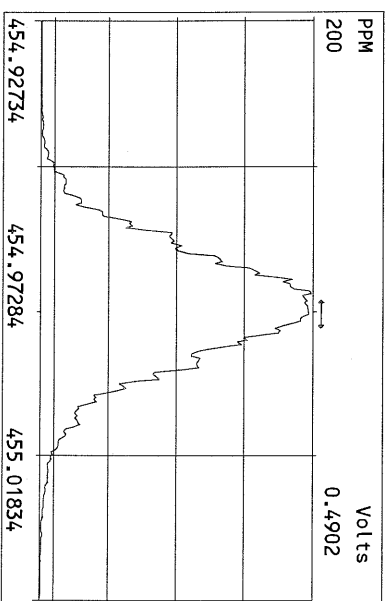
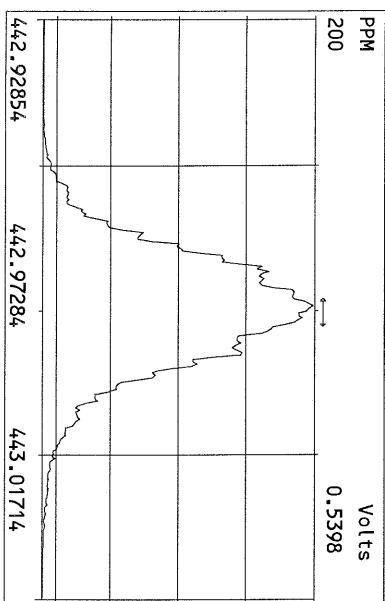
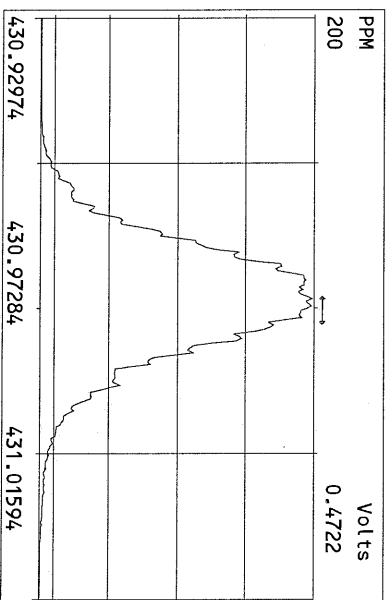
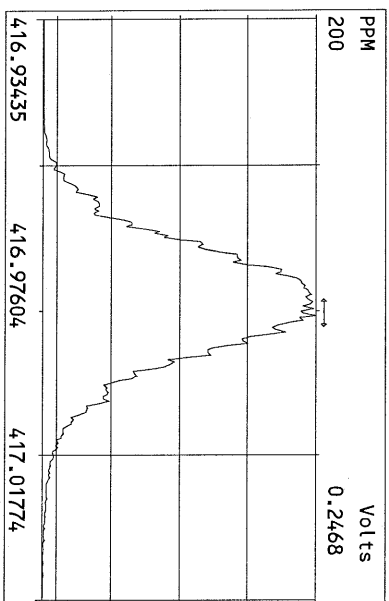
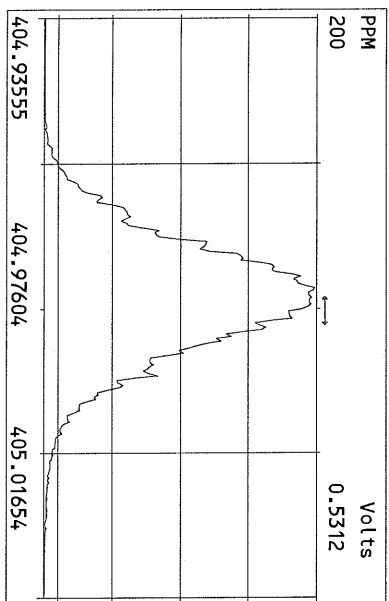
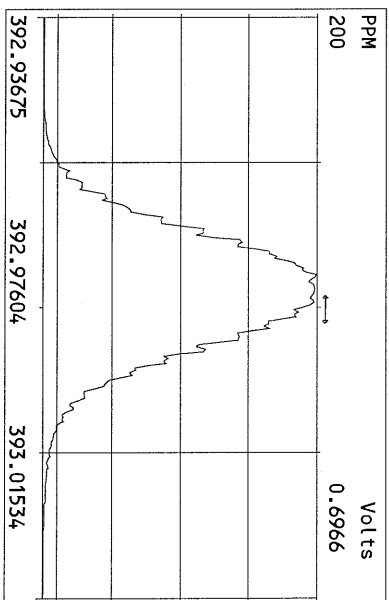
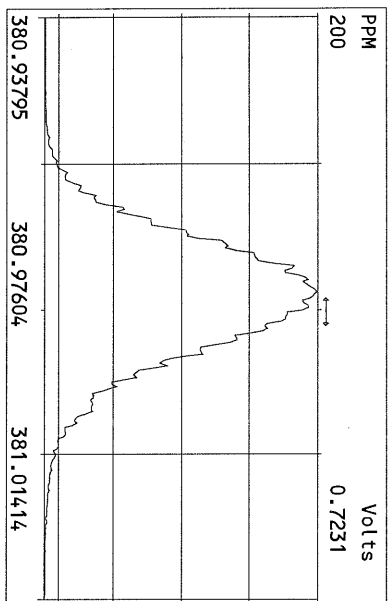
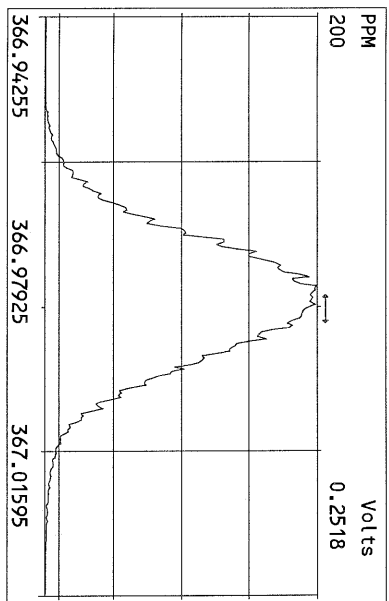


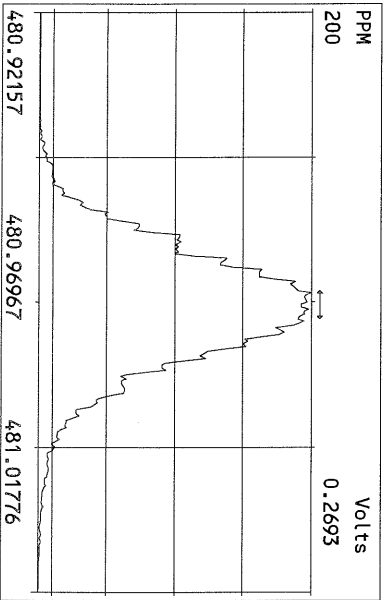
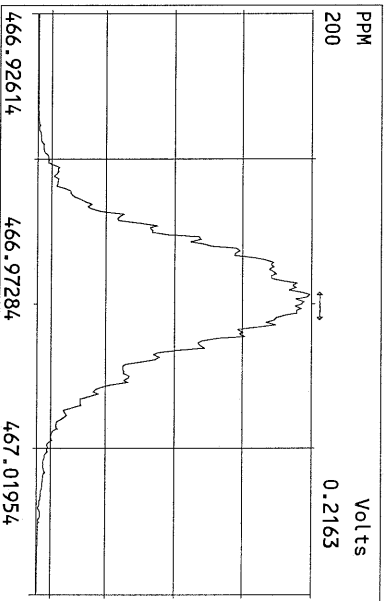
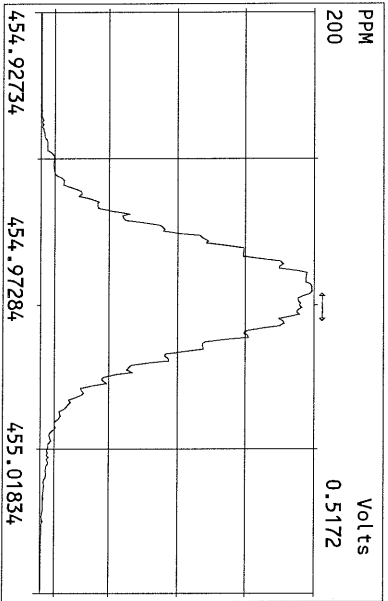
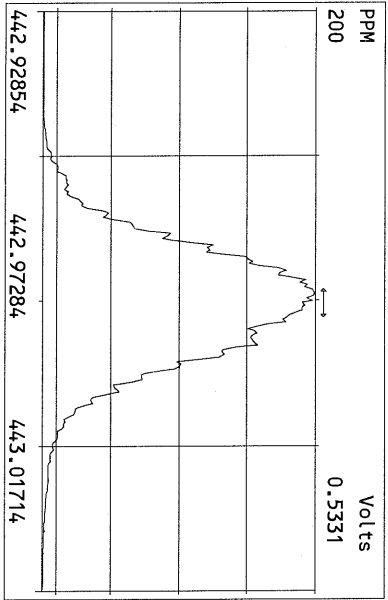
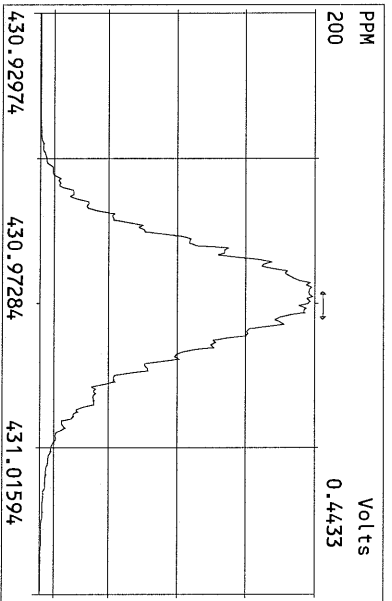
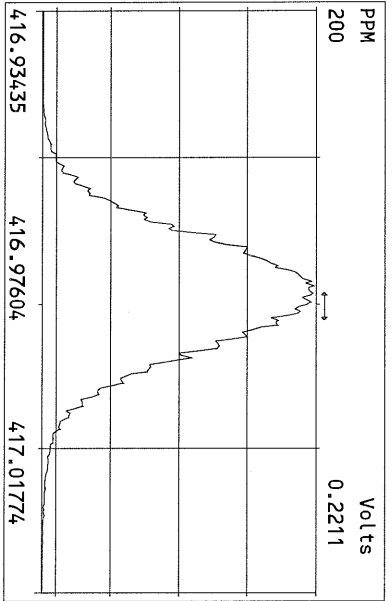
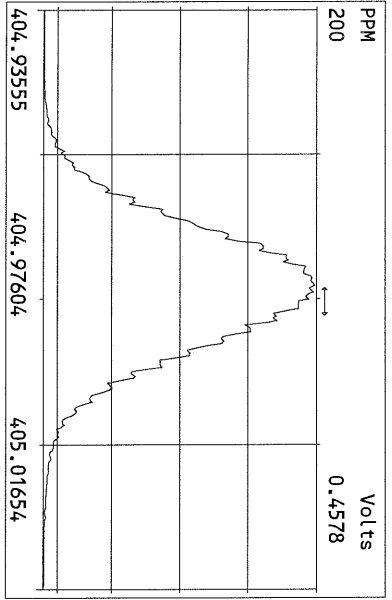
File:17MAY11Z #1-348 Acq:17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %

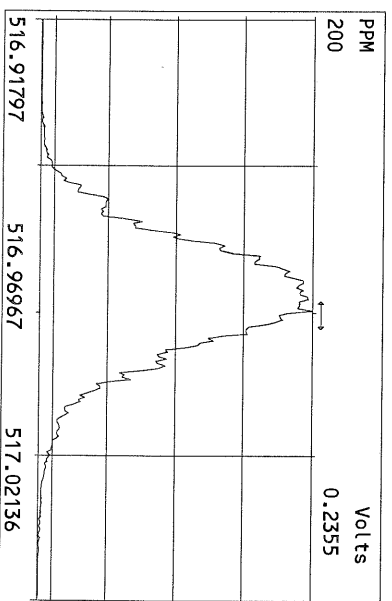
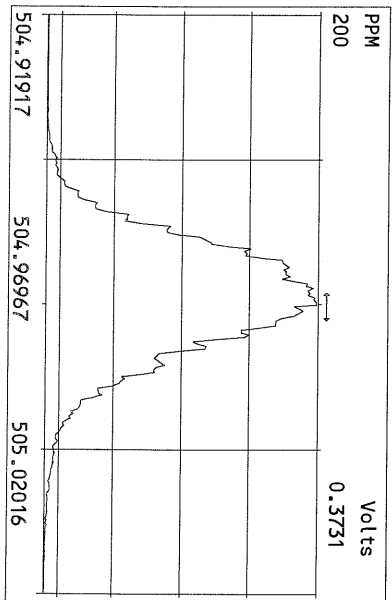
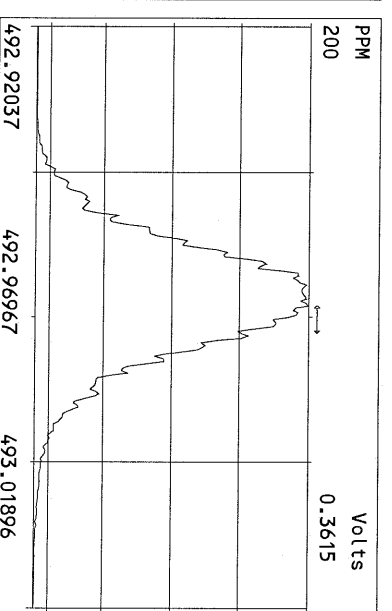
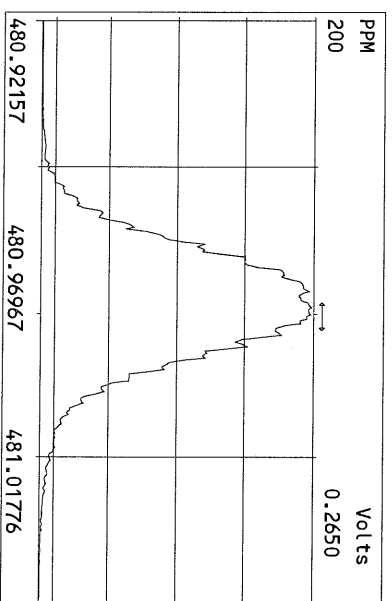
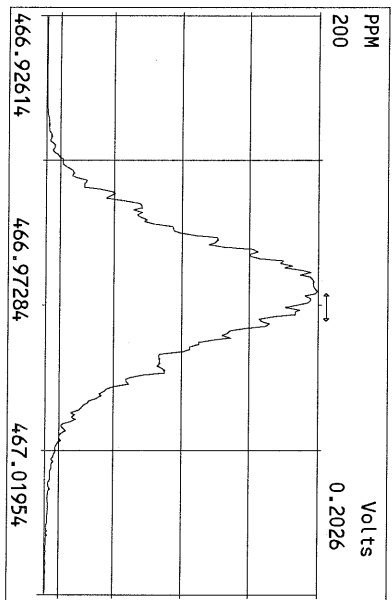
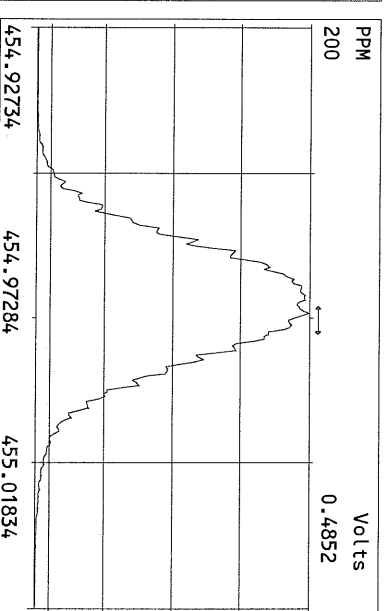
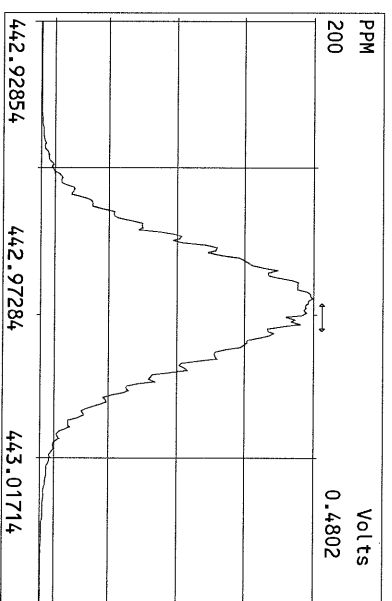
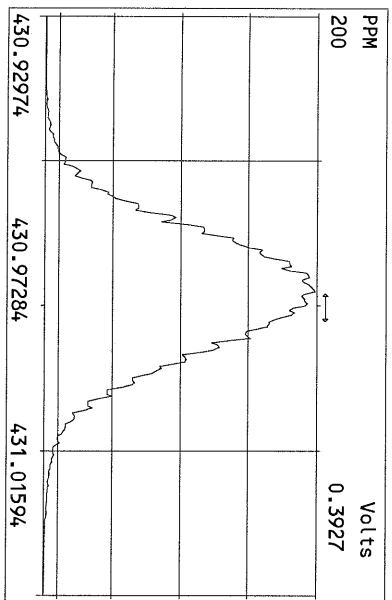












USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4

GC Column ID: DB5

VER Data Filename: 18MAY11Z Sam:1

Analysis Date: 18-MAY-11 12:16:46

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	10.2	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.57	1.32-1.78	y	50.6	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	49.4	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	52.0	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.25	1.05-1.43	y	53.4	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88-1.20	y	53.5	43.0 - 58.0
OCDD	M+2/M+4	0.88	0.76-1.02	y	101	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	y	9.79	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	52.6	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.32-1.78	y	51.5	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	50.1	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	51.8	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	51.4	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.23	1.05-1.43	y	51.4	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	51.2	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	50.2	43.0 - 58.0
OCDF	M+2/M+4	0.91	0.76-1.02	y	106	63.0 - 159

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

Analyst: Date: 5/18/11

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4

GC Column ID: DB5

VER Data Filename: 18MAY11Z Sam:1

Analysis Date: 18-MAY-11 12:16:46

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	100	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.61	1.32-1.78	y	89.1	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	102	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	105	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.09	0.88-1.20	y	99.1	72.0 - 138
13C-OCDD	M+2/M+4	0.91	0.76-1.02	y	204	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	102	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	91.0	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	90.6	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	109	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	112	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.53	0.43-0.59	y	109	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.54	0.43-0.59	y	107	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.44	0.37-0.51	y	114	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.43	0.37-0.51	y	109	77.0 - 129
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	203	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.57	7.80 - 12.8

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) No ion abundance ratio; report concentration found.

Analyst: JDate: 5/18/11

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL4 Initial Calibration Date: 5/17/11
RT Window Data Filename: 18MAY11Z Sam:1 Analysis Date: 18-MAY-11 Time: 12:16:46
DB-5 IS Data Filename: 18MAY11Z Sam:1 Analysis Date: 18-MAY-11 Time: 12:16:46
DB-225 IS Date Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:22	1,3,6,8-TCDF (F)	22:59
1,2,8,9-TCDD (L)	28:22	1,2,8,9-TCDF (L)	28:34
1,2,4,7,9-PeCDD (F)	30:18	1,3,4,6,8-PeCDF (F)	28:27
1,2,3,8,9-PeCDD (L)	33:51	1,2,3,8,9-PeCDF (L)	34:16
1,2,4,6,7,9-HxCDD (F)	36:09	1,2,3,4,6,8-HxCDF (F)	35:17
1,2,3,7,8,9-HxCDD (L)	39:13	1,2,3,7,8,9-HxCDF (L)	39:47
1,2,3,4,6,7,9-HpCDD (F)	42:49	1,2,3,4,6,7,8-HpCDF (F)	42:18
1,2,3,4,6,7,8-HpCDD (L)	44:11	1,2,3,4,7,8,9-HpCDF (L)	45:05

(F) = First eluting iosmer (DB-5); (L) = Last eluting isomer (DB-5)

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

(1) To meet contract requirement, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst:

Date: 5/18/11

USEPA - ITD

FORM 6A

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/17/11

Instrument ID: FAL4

GC Column ID: DB5

Analysis Date: 18-MAY-11 12:16:46

CS3 or VER Data Filename: 18MAY11Z

Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052
13C-2,3,7,8-TCDD		1.021	0.976-1.043
13C-2,3,7,8-TCDF		0.993	0.923-1.103
13C-1,2,3,7,8-PeCDD		1.240	1.000-1.567
13C-1,2,3,7,8-PeCDF		1.175	0.923-1.203
13C-2,3,4,7,8-PeCDF		1.224	0.923-1.303

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: Date: 5/18/11

USEPA - ITD

FORM 6B

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/17/11

Instrument ID: FAL4

GC Column ID: DB5

Analysis Date: 18-MAY-11 12:16:46 CS3 or VER Data Filename: 18MAY11Z Sam:1

NATIVE ANALYTES	RETENTION TIME		RRT	QC LIMITS (1)
	REFERENCE			
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD		1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD		1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD		1.012	1.000-1.019
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF		1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF		1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF		1.001	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF		1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD		1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF		1.001	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF		1.000	0.999-1.001
OCDD	13C-OCDD		1.001	0.999-1.001
OCDF	13C-OCDF		1.000	0.999-1.001
LABELED COMPOUNDS				
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD		0.985	0.977-1.000
13C-1,2,3,6,7,8-HxCDD			0.988	0.981-1.003
13C-1,2,3,4,7,8-HxCDF			0.949	0.944-0.970
13C-1,2,3,6,7,8-HxCDF			0.954	0.949-0.975
13C-2,3,4,6,7,8-HxCDF			0.978	0.959-1.021
13C-1,2,3,7,8,9-HxCDF			1.014	0.977-1.047
13C-1,2,3,4,6,7,8-HpCDD			1.127	1.086-1.130
13C-1,2,3,4,6,7,8-HpCDF			1.078	1.043-1.085
13C-1,2,3,4,7,8,9-HpCDF			1.150	1.057-1.154
13C-OCDD			1.267	1.032-1.311
13C-OCDF			1.277	1.000-1.311

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: 8Date: 5/18/11

FAL ID: ST051811Z1 Filename: 18MAY11Z Sam:1 Acquired: 18-MAY-11 12:16:46 ICal: PCDDFAL4-5-17-11
 Client ID: 1613 CS3 100511J ConCal: ST051811Z1 EndCal: ST051811Z2
 Results: 6739 GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 103 WHO 1998 Tox: 128 WHO 2005 Tox: 116

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	2.45e+06	0.78 y	27:24	1.15	10.2	2.50	-	-	*	100	
1,2,3,7,8-PeCDD	7.74e+06	1.57 y	33:16	1.02	50.6	2.50	-	-	*	89.1	
1,2,3,4,7,8-HxCDD	6.95e+06	1.24 y	38:36	1.09	49.4	2.50	-	-	*	102	
1,2,3,6,7,8-HxCDD	7.02e+06	1.24 y	38:46	1.08	52.0	2.50	-	-	*	105	
1,2,3,7,8,9-HxCDD	7.59e+06	1.25 y	39:13	1.12	53.4	2.50	-	-	*	99.1	
1,2,3,4,6,7,8-HpCDD	5.05e+06	1.02 y	44:11	1.03	53.5	2.50	-	-	*	102	
OCDD	7.74e+06	0.88 y	49:42	1.21	101	2.50	-	-	*	102	
2,3,7,8-TCDF	3.27e+06	0.78 y	26:38	1.09	9.79	2.50	-	-	*	100	
1,2,3,7,8-PeCDF	1.10e+07	1.56 y	31:32	0.96	52.6	2.50	-	-	*	91.0	
2,3,4,7,8-PeCDF	1.04e+07	1.57 y	32:51	0.96	51.5	2.50	-	-	*	90.6	
1,2,3,4,7,8-HxCDF	8.43e+06	1.26 y	37:14	1.18	50.1	2.50	-	-	*	109	
1,2,3,6,7,8-HxCDF	1.04e+07	1.21 y	37:25	1.03	51.8	2.50	-	-	*	112	
2,3,4,6,7,8-HxCDF	9.36e+06	1.22 y	38:22	1.17	51.4	2.50	-	-	*	109	
1,2,3,7,8,9-HxCDF	1.12e+07	1.23 y	39:47	1.27	51.4	2.50	-	-	*	107	
1,2,3,4,6,7,8-HpCDF	8.09e+06	1.03 y	42:18	1.36	51.2	2.50	-	-	*	114	
1,2,3,4,7,8,9-HpCDF	6.31e+06	1.02 y	45:05	1.35	50.2	2.50	-	-	*	109	
OCDF	9.94e+06	0.91 y	50:05	0.97	106	2.50	-	-	*	101	
13C-2,3,7,8-TCDD	2.10e+07	0.79 y	27:23	0.99	100					95.7	
13C-1,2,3,7,8-PeCDD	1.50e+07	1.61 y	33:14	0.79	89.1						
13C-1,2,3,4,7,8-HxCDD	1.30e+07	1.29 y	38:36	1.03	102						
13C-1,2,3,6,7,8-HxCDD	1.25e+07	1.26 y	38:45	0.96	105						
13C-1,2,3,4,6,7,8,9-HpCDD	9.15e+06	1.09 y	44:10	0.75	99.1						
13C-OCDD	1.27e+07	0.91 y	49:41	0.50	204						
13C-2,3,7,8-TCDF	3.08e+07	0.79 y	26:37	0.98	102					102	
13C-1,2,3,7,8-PeCDF	2.18e+07	1.59 y	31:31	0.78	91.0					91.0	
13C-2,3,4,7,8-PeCDF	2.11e+07	1.59 y	32:50	0.75	90.6					90.6	
13C-1,2,3,4,7,8-HxCDF	1.42e+07	0.52 y	37:13	1.05	109					109	
13C-1,2,3,6,7,8-HxCDF	1.94e+07	0.54 y	37:24	1.40	112					112	
13C-2,3,4,6,7,8-HxCDF	1.56e+07	0.53 y	38:20	1.16	109					109	
13C-1,2,3,7,8,9-HxCDF	1.72e+07	0.54 y	39:46	1.30	107					107	
13C-1,2,3,4,6,7,8-HpCDF	1.16e+07	0.44 y	42:16	0.83	114					114	
13C-1,2,3,4,7,8,9-HpCDF	9.33e+06	0.43 y	45:05	0.69	109					109	
13C-OCDF	1.93e+07	0.91 y	50:04	0.77	203					101	
37Cl-2,3,7,8-TCDD	1.44e+06		27:24	0.71	9.57					95.7	
13C-1,2,3,4-TCDD	2.12e+07	0.81 y	26:49	-	39.7						
13C-1,2,3,4-TCDF	3.09e+07	0.79 y	25:31	-	41.3						
13C-1,2,3,7,8,9-HxCDD	1.24e+07	1.27 y	39:12	-	32.0						
Total Tetra-Dioxins	1.31e+07		22:52	1.15	54.6	2.50	-	-	*	26	
Total Penta-Dioxins	1.70e+07		30:18	1.02	111	2.50	-	-	*	18	
Total Hexa-Dioxins	2.47e+07		35:47	1.10	177	2.50	-	-	*	27	
Total Hepta-Dioxins	1.14e+07		41:13	1.03	120	2.50	-	-	*	42	
Total Tetra-Furans	1.49e+07		22:59	1.09	44.5	2.50	-	-	*	21	
1st Fn. Tot Penta-Furans	1.57e+07		28:27	0.96	76.0	2.50	-	-	*	PeCDF 1	
Total Penta-Furans	3.19e+07		30:07	0.96	154	2.50	-	-	*	230	19
Total Hexa-Furans	4.60e+07		35:17	1.16	239	2.50	-	-	*		22
Total Hepta-Furans	1.49e+07		42:18	1.36	105	2.50	-	-	*		31

Analyst: J

Date: 5/18/11

Frontier Analytical Laboratory - Acquisition Log

Run Name:18MAY11Z

Instrument: FAL4

GC: DB5

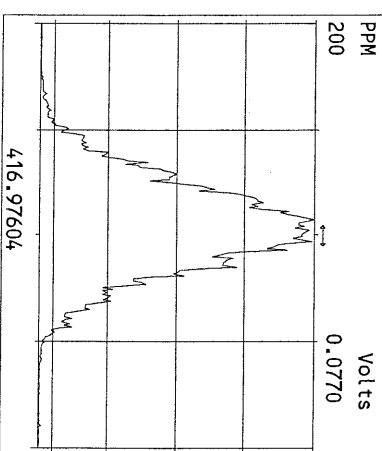
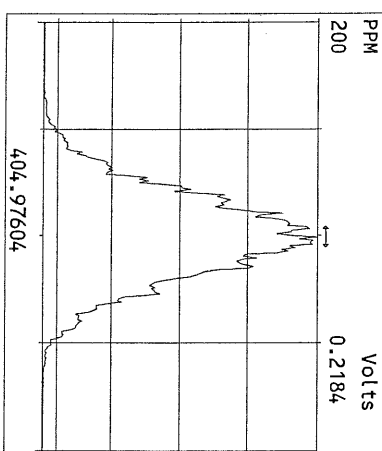
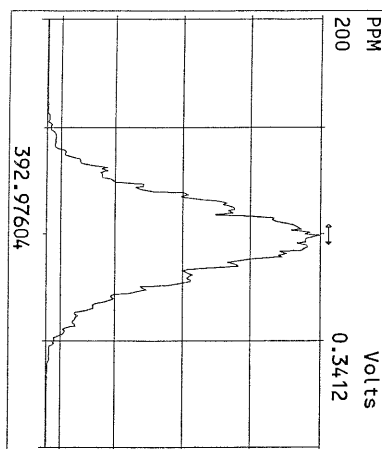
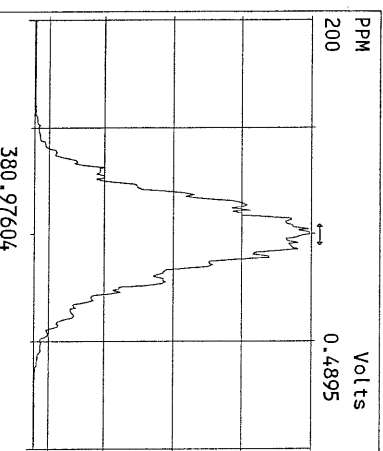
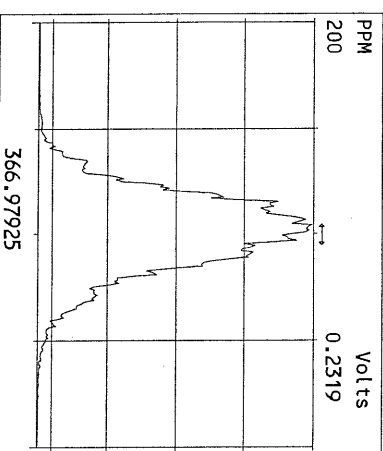
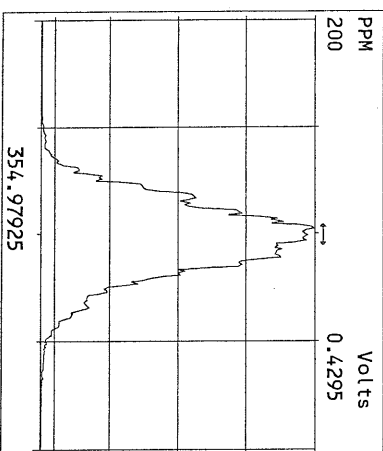
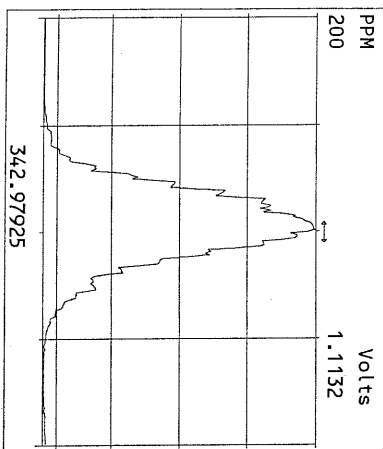
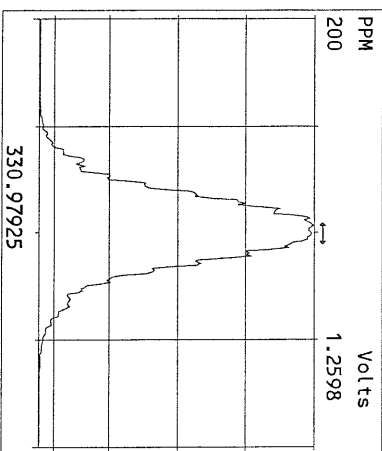
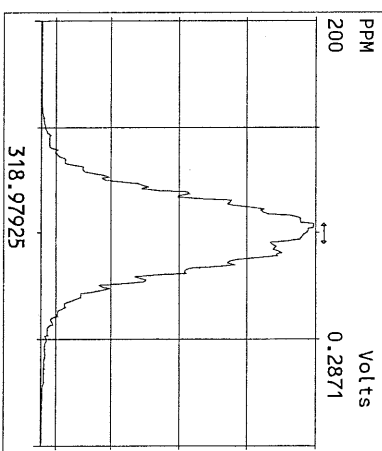
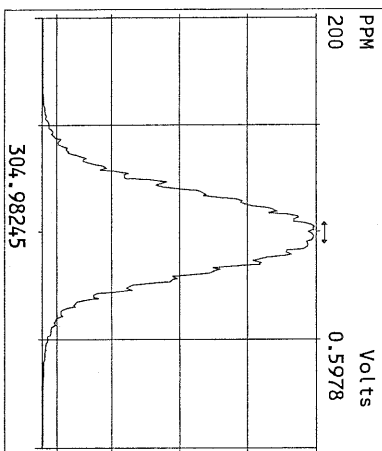
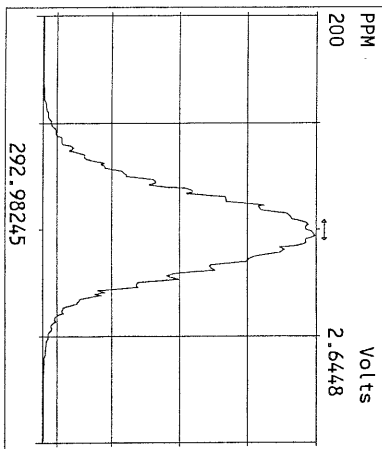
Experiment:PCDD

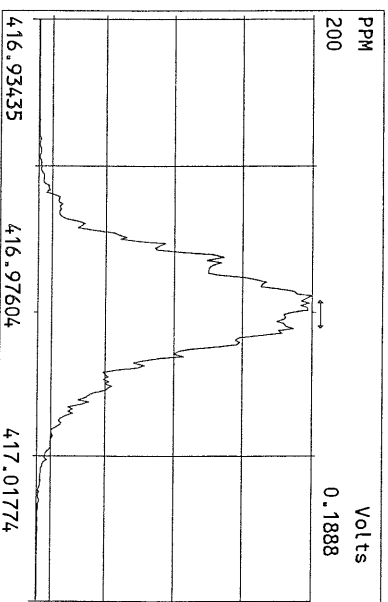
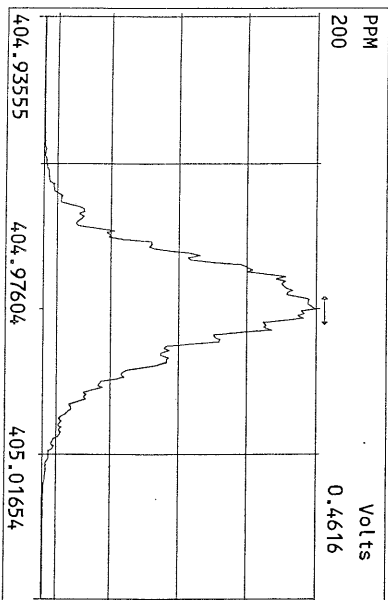
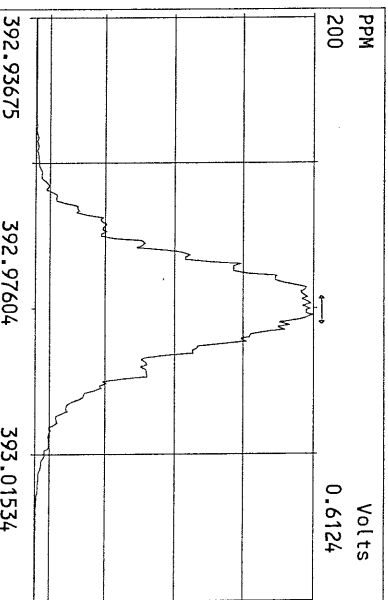
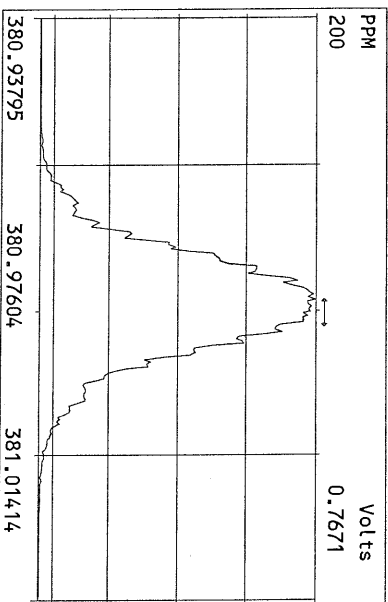
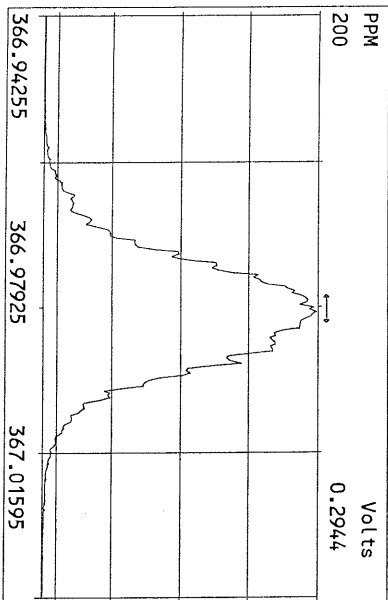
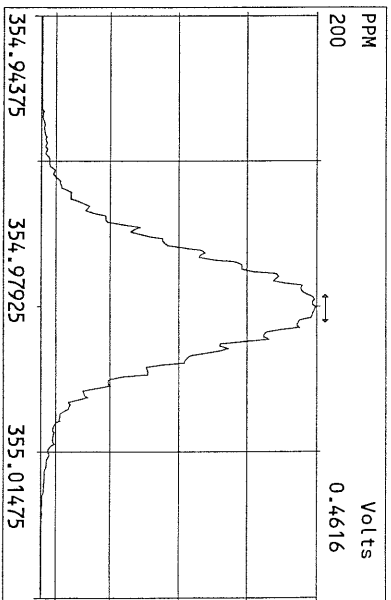
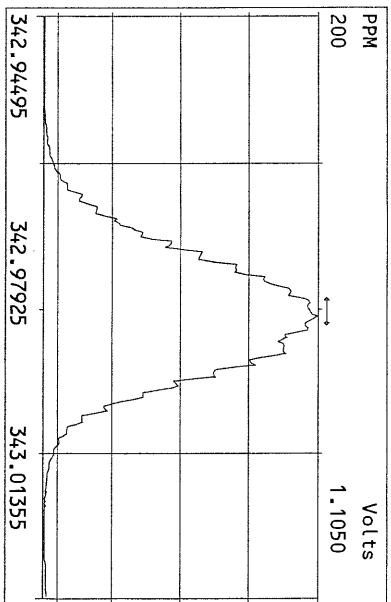
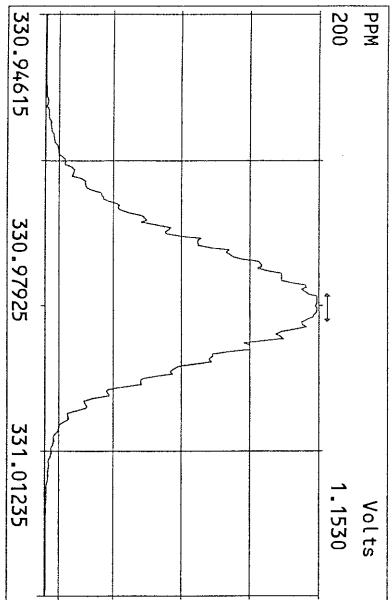
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
18MAY11Z	1	ST051811Z1	1613 CS3 100511J	18-MAY-11 12:16:46	ST051811Z1	ST051811Z2	BS
18MAY11Z	2	SB051811Z1	Solvent Blank	18-MAY-11 13:11:33	ST051811Z1	ST051811Z2	BS
18MAY11Z	3	2293-001-0001-OPR	OPR	18-MAY-11 14:06:21	ST051811Z1	ST051811Z2	BS
18MAY11Z	4	2293-001-0001-MB	Method Blank	18-MAY-11 15:01:08	ST051811Z1	ST051811Z2	BS
18MAY11Z	5	6739-001-0001-SA	MW02-042611	18-MAY-11 15:55:55	ST051811Z1	ST051811Z2	BS
18MAY11Z	6	6739-002-0001-SA	MW03-042611	18-MAY-11 16:50:42	ST051811Z1	ST051811Z2	BS
18MAY11Z	7	6739-003-0001-SA	MW13-042611	18-MAY-11 17:45:30	ST051811Z1	ST051811Z2	BS
18MAY11Z	8	6740-001-0001-SA	MW07-042711	18-MAY-11 18:40:18	ST051811Z1	ST051811Z2	BS
18MAY11Z	9	6740-002-0001-SA	MW11-042711	18-MAY-11 19:35:05	ST051811Z1	ST051811Z2	BS
18MAY11Z	10	6740-003-0001-SA	MW10-042711	18-MAY-11 20:29:51	ST051811Z1	ST051811Z2	BS
18MAY11Z	11	6740-004-0001-SA	MW09-042711	18-MAY-11 21:24:37	ST051811Z1	ST051811Z2	BS
18MAY11Z	12	6740-005-0001-SA	MW08-042711	18-MAY-11 22:19:23	ST051811Z1	ST051811Z2	BS
18MAY11Z	13	6740-006-0001-SA	MW12-042711	18-MAY-11 23:14:09	ST051811Z1	ST051811Z2	BS
18MAY11Z	14	SB051811Z2	Solvent Blank	19-MAY-11 00:08:56	ST051811Z1	ST051811Z2	BS
18MAY11Z	15	ST051811Z2	1613 CS3 100511J	19-MAY-11 01:03:43	ST051811Z1	ST051811Z2	BS
18MAY11Z	16	QC051811Z1	NEWQC	19-MAY-11 01:58:32	ST051811Z2	ST051811Z3	BS
18MAY11Z	17	QC051811Z2	SSQC	19-MAY-11 02:53:20	ST051811Z2	ST051811Z3	BS
18MAY11Z	18	SB051811Z3	Solvent Blank	19-MAY-11 03:48:07	ST051811Z2	ST051811Z3	BS

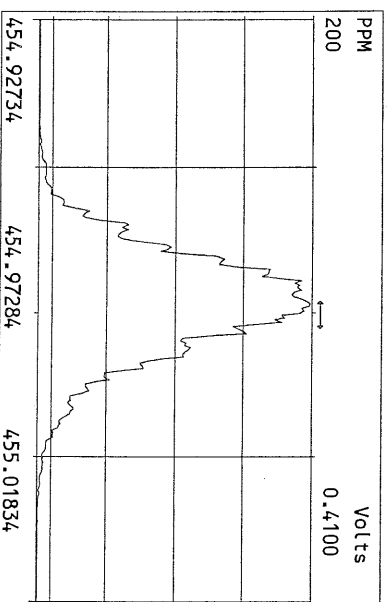
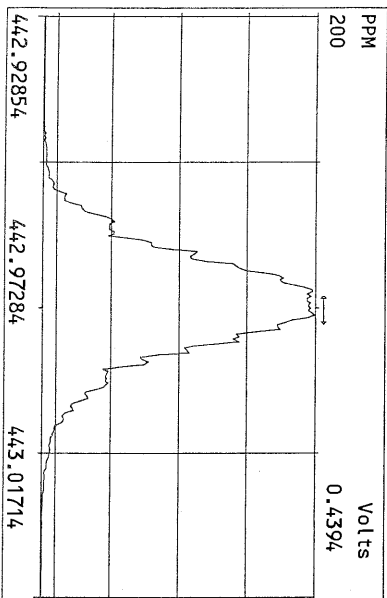
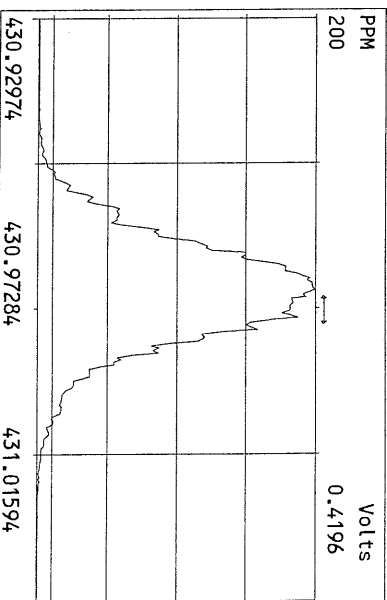
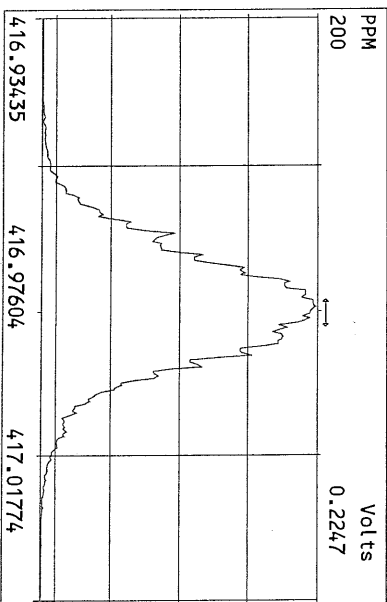
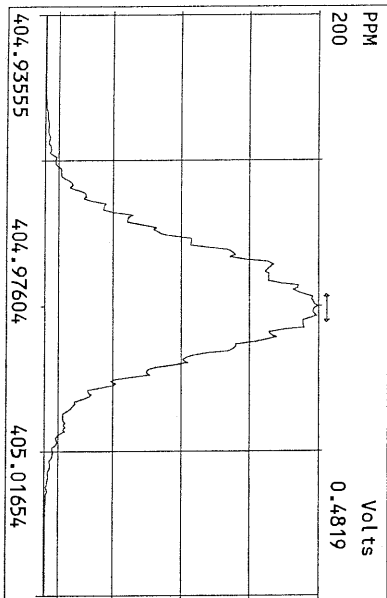
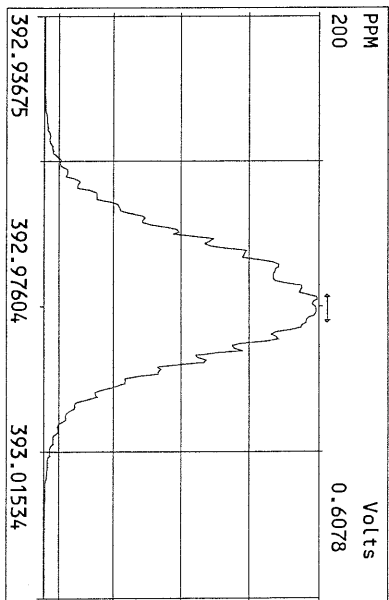
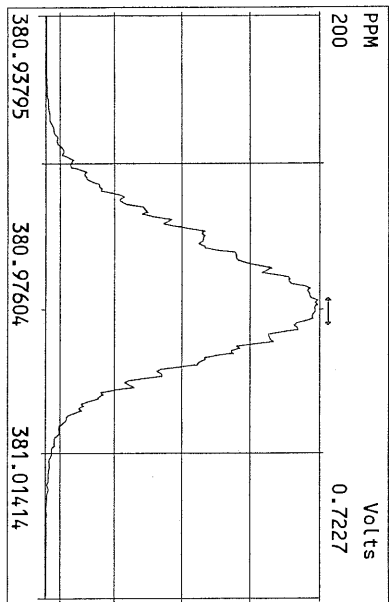
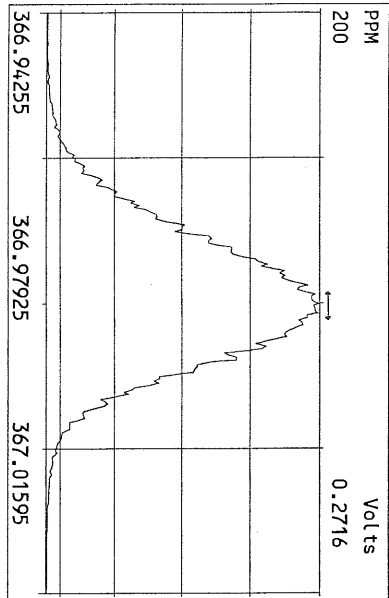
6/5/11

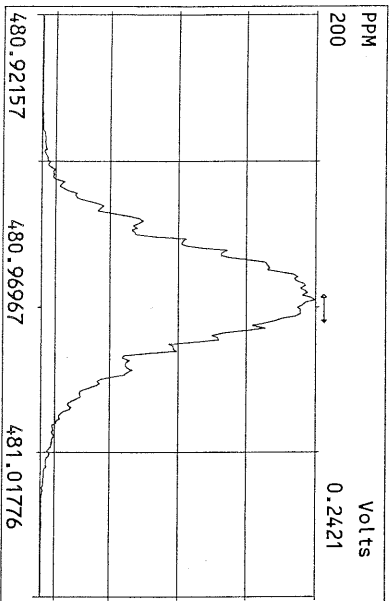
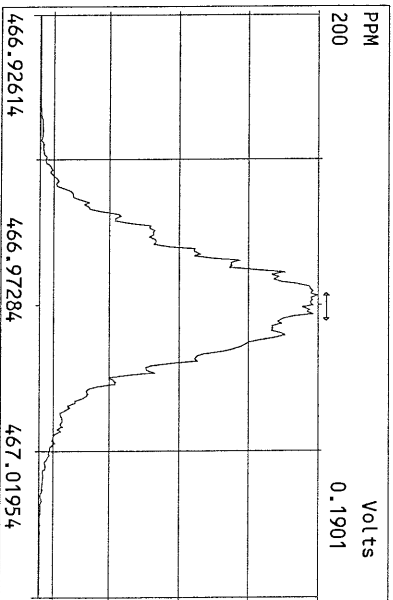
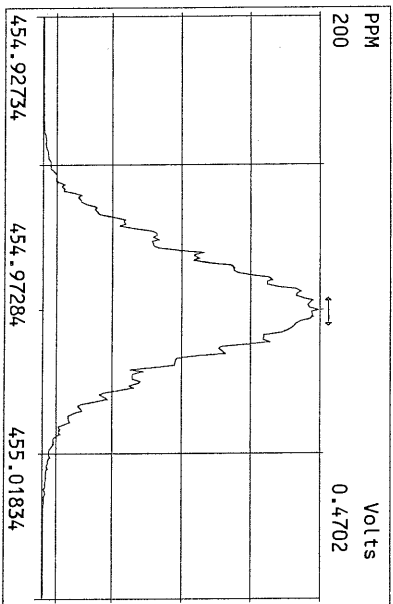
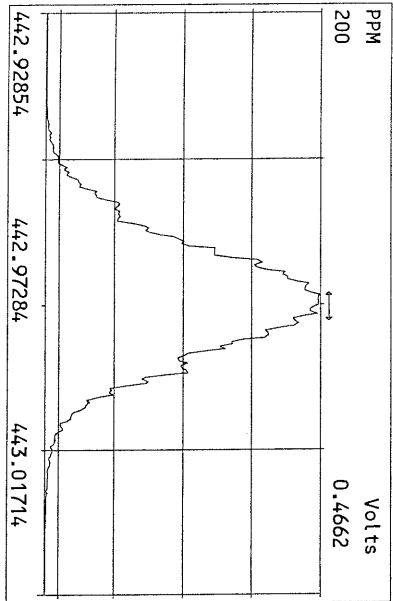
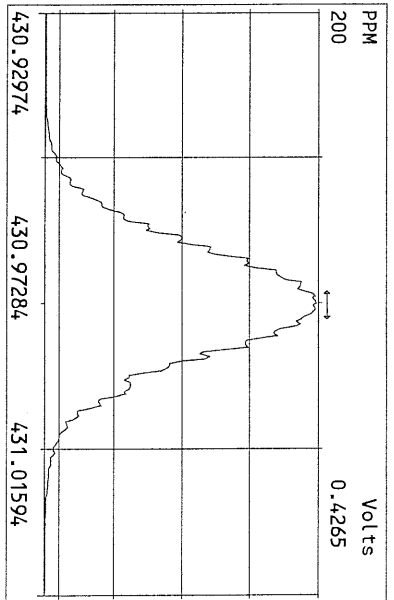
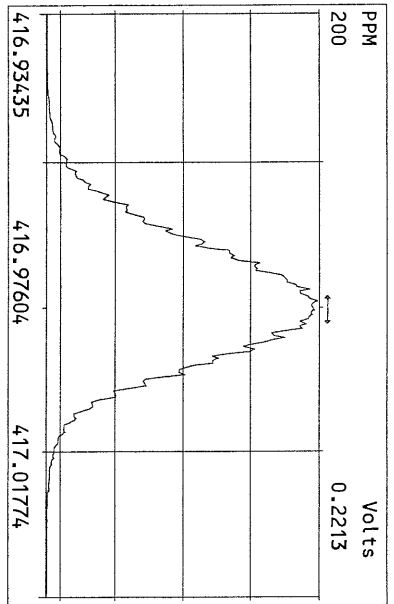
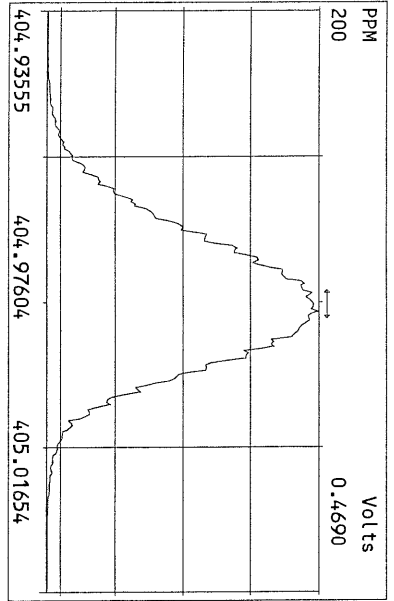
Data Backed Up: _____

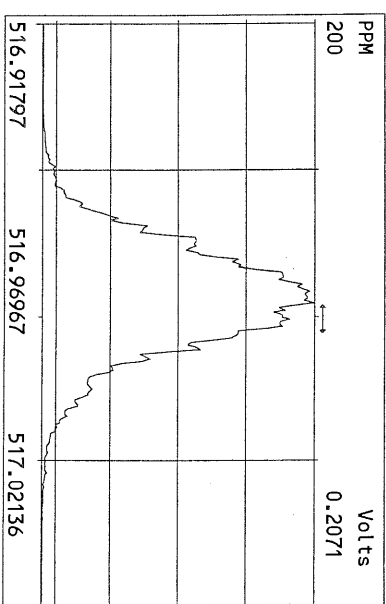
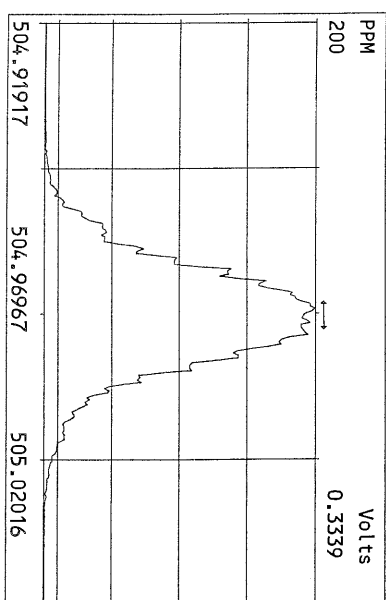
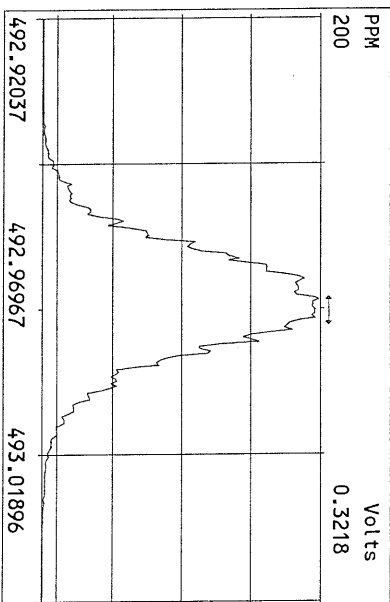
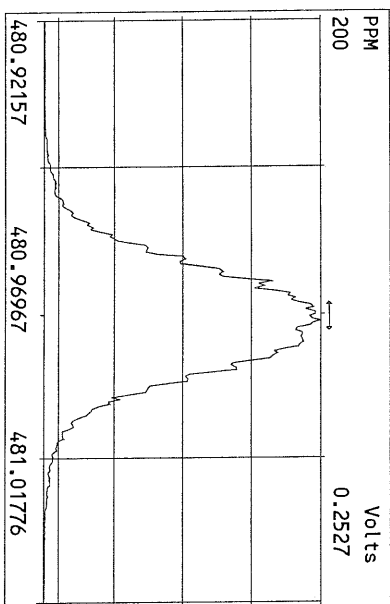
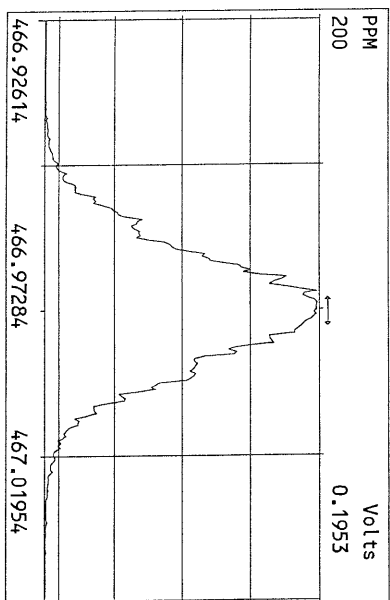
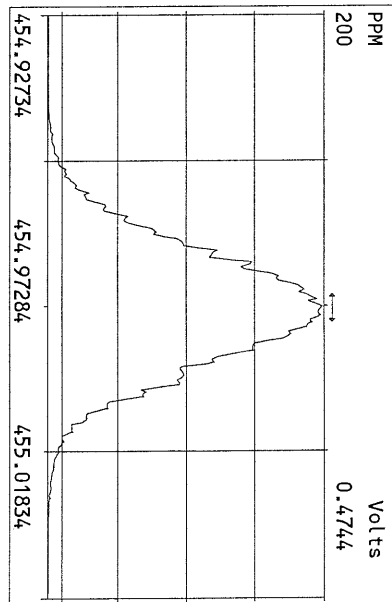
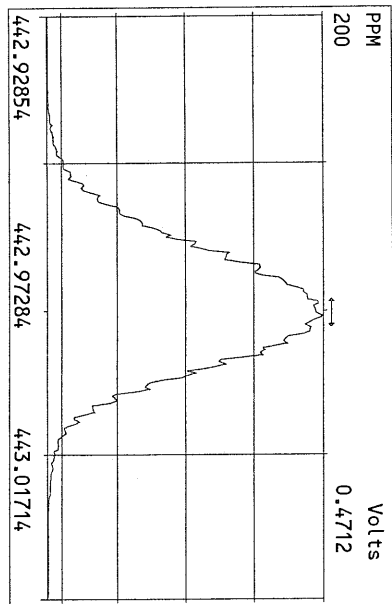
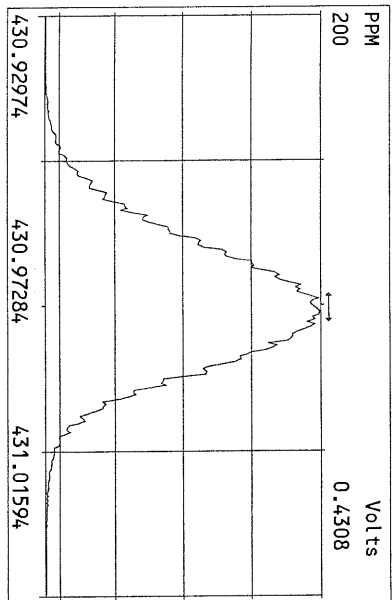
Date: _____



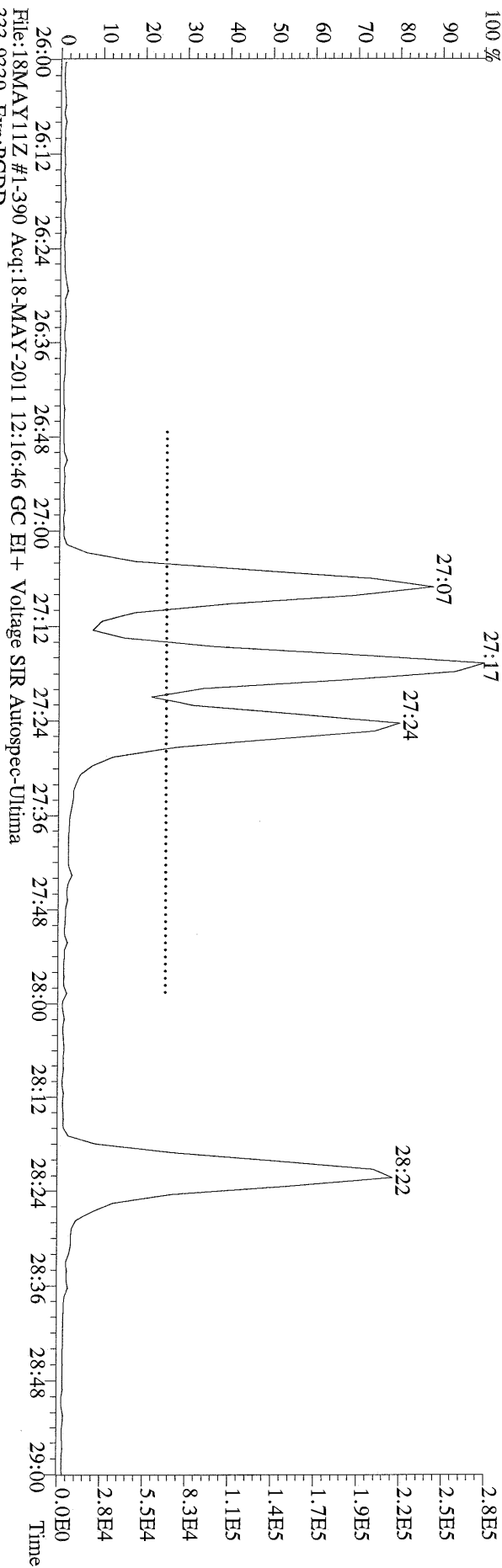




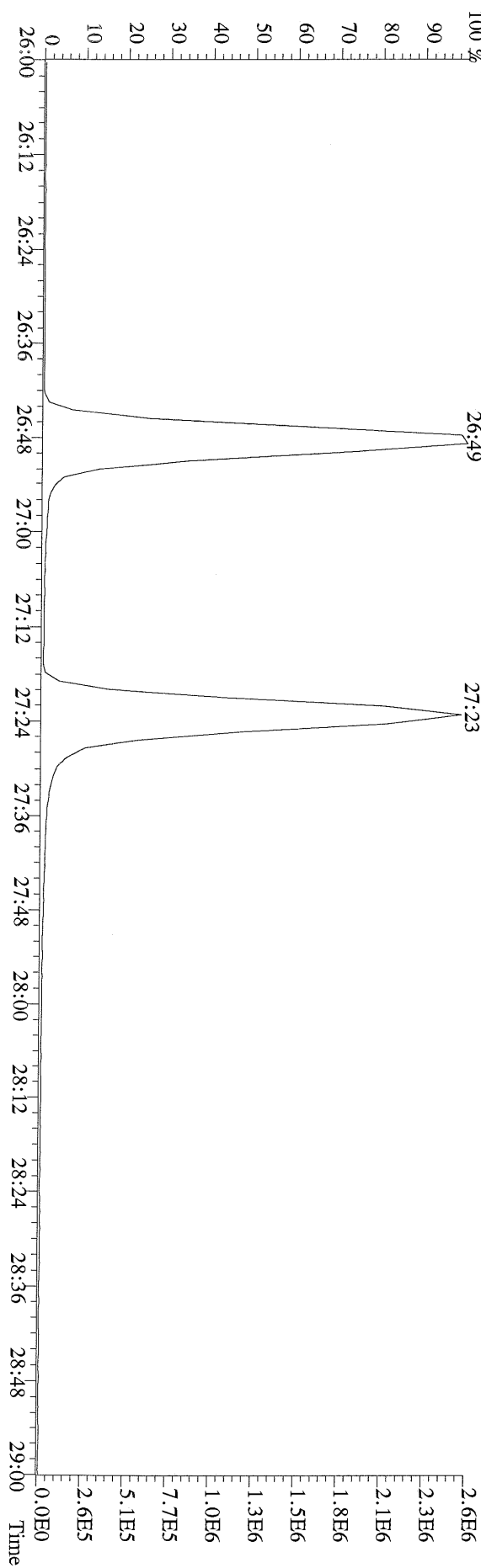




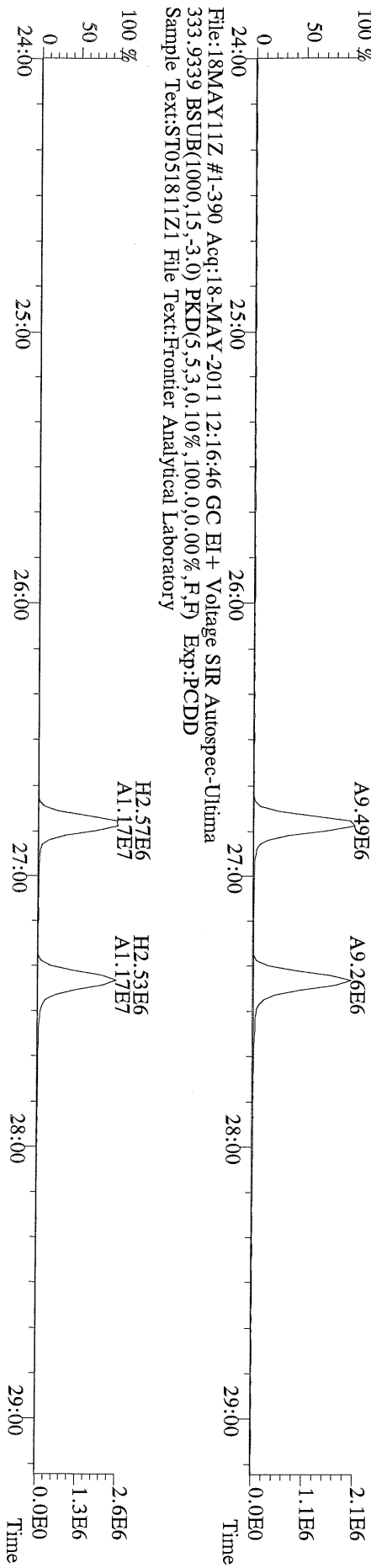
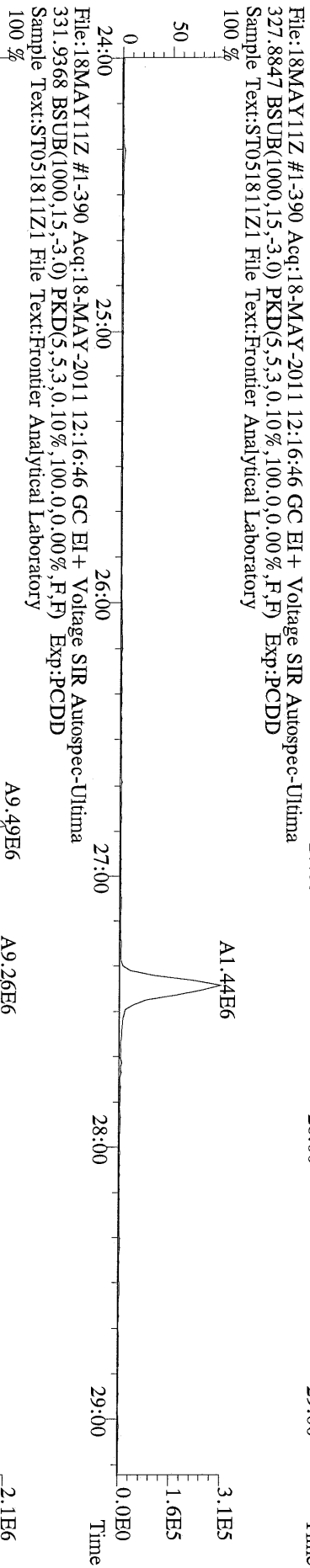
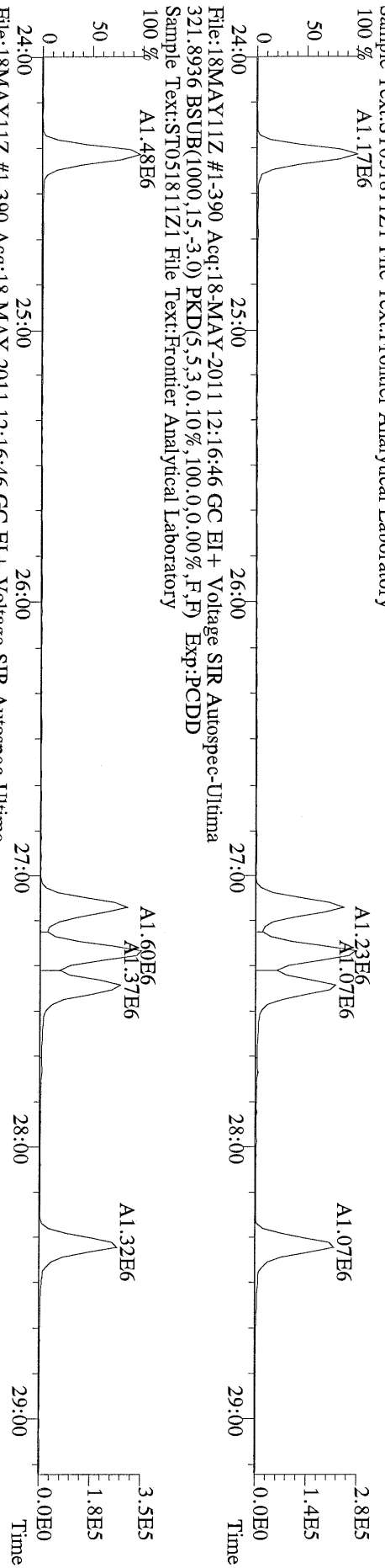
File: 18MAY11Z #1-390 Acq: 18-MAY-2011 12:16:46 GC EI + Voltage SIR Autospec-Ultima
319.8965 Exp: PCDD
Sample Text: ST051811Z1 File Text: Frontier Analytical Laboratory
100 %



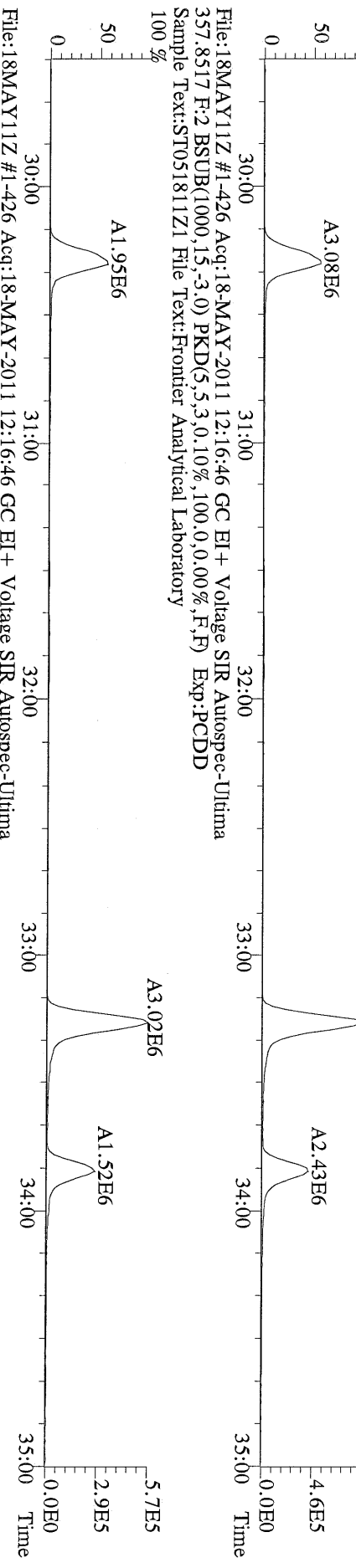
File: 18MAY11Z #1-390 Acq: 18-MAY-2011 12:16:46 GC EI + Voltage SIR Autospec-Ultima
333.9339 Exp: PCDD
Sample Text: ST051811Z1 File Text: Frontier Analytical Laboratory
100 %



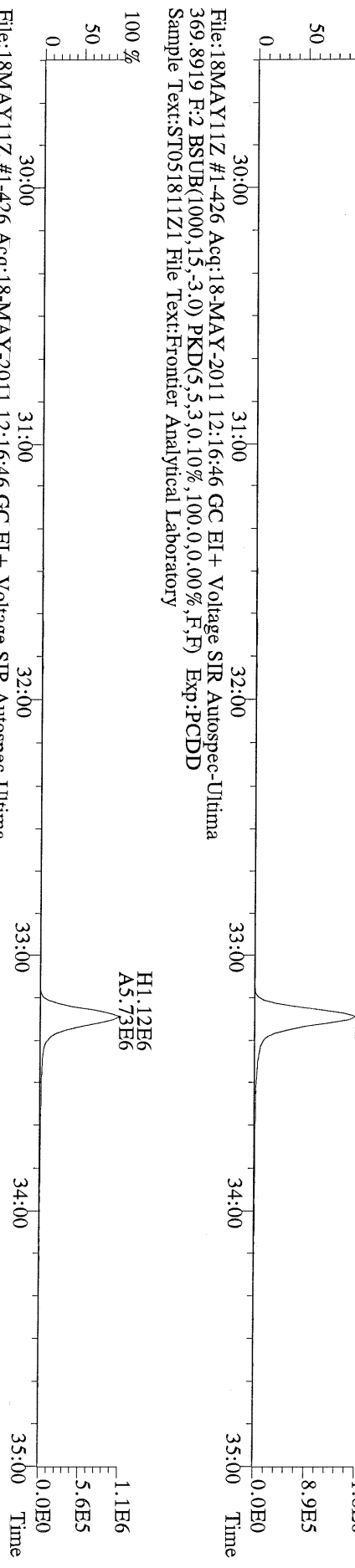
File:18MAYY11Z #1-390 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
319.8965 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



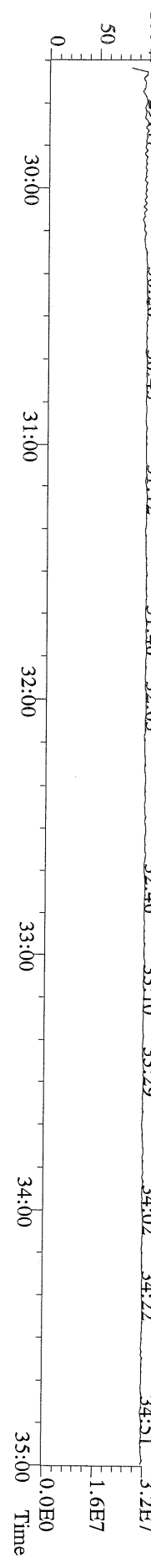
File: 18MAY11Z #1-426 Acq: 18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
355.8546 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



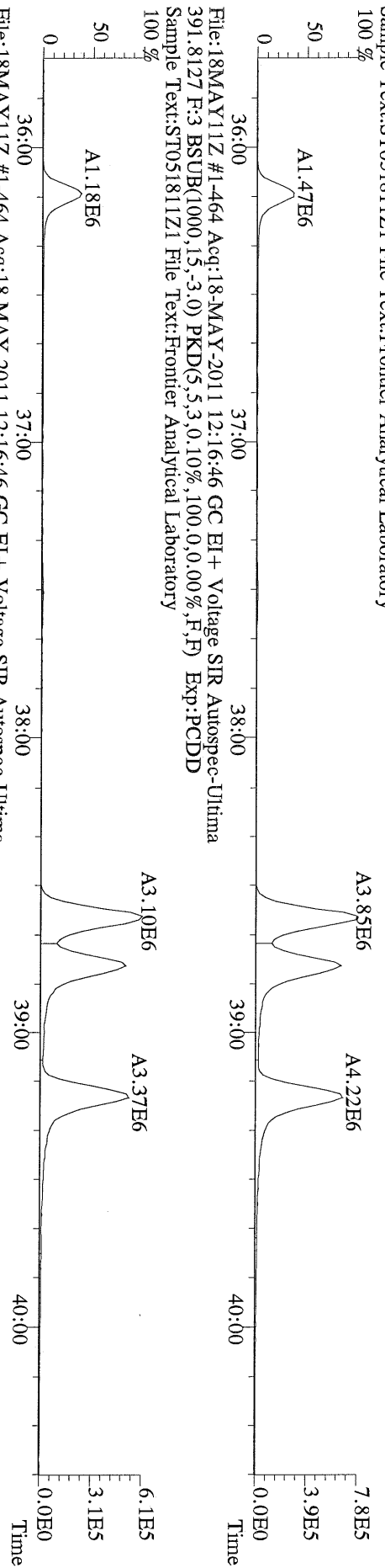
File: 18MAY11Z #1-426 Acq: 18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
367.8949 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



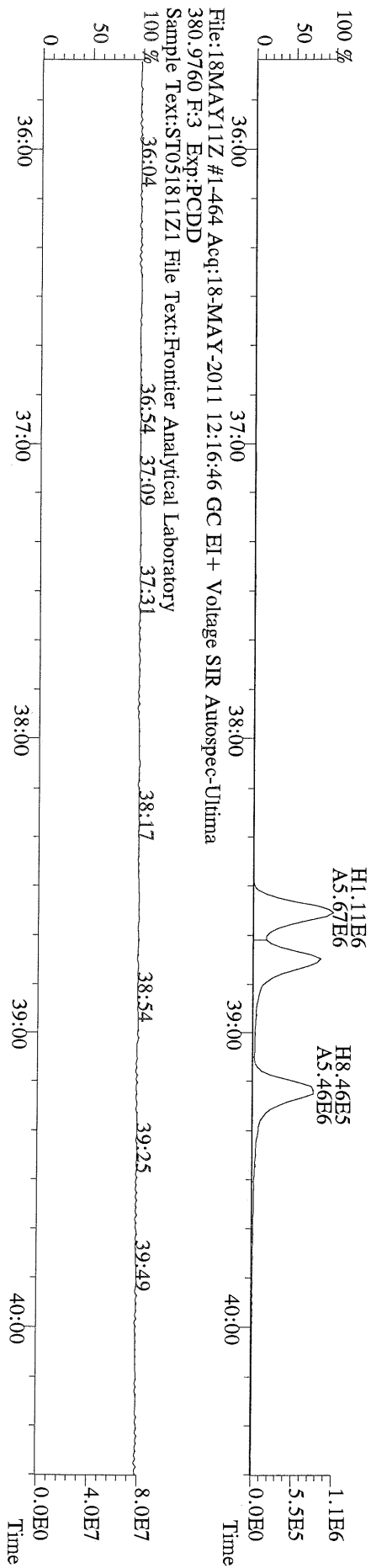
File: 18MAY11Z #1-426 Acq: 18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
366.9792 F:2 Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



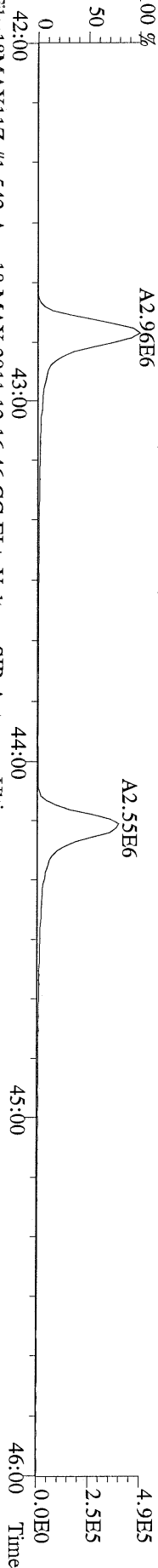
File:18MAY11Z #1-464 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
389.8156 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



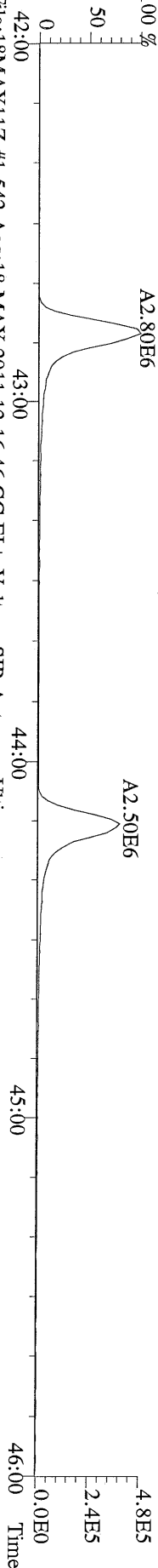
File:18MAY11Z #1-464 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
401.8559 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



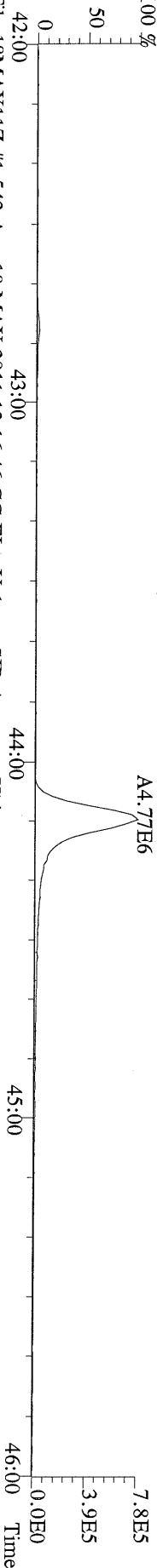
File:18MAY11Z #1-542 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
423.7767 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



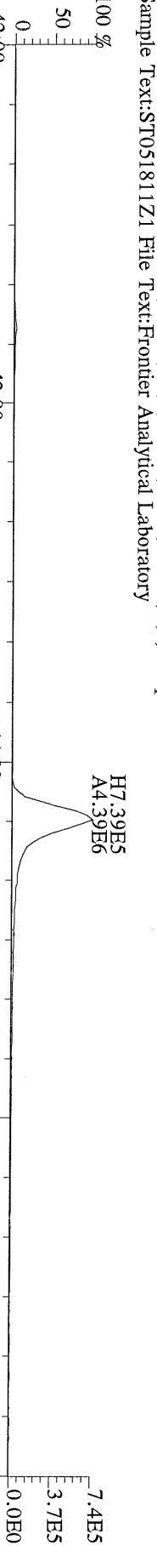
File:18MAY11Z #1-542 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
425.7737 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



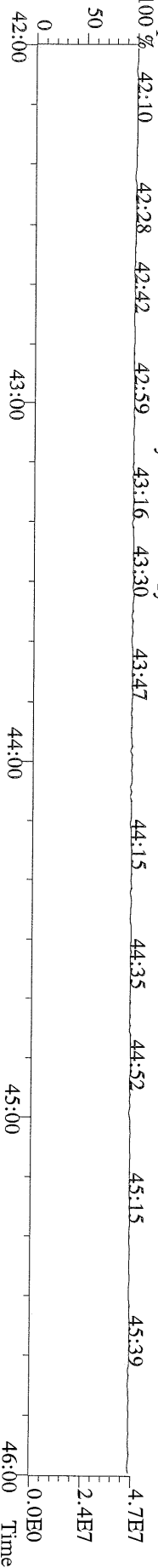
File:18MAY11Z #1-542 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
435.8169 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



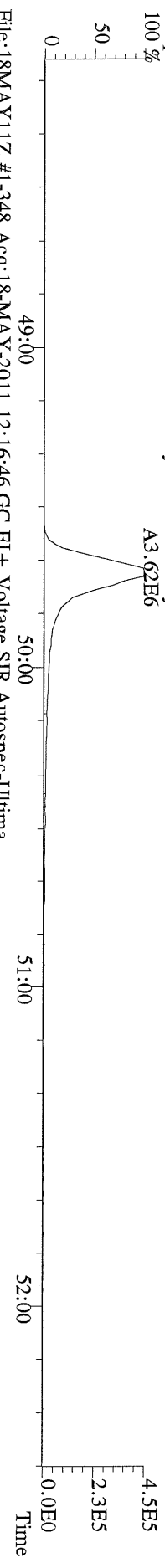
File:18MAY11Z #1-542 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
437.8140 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



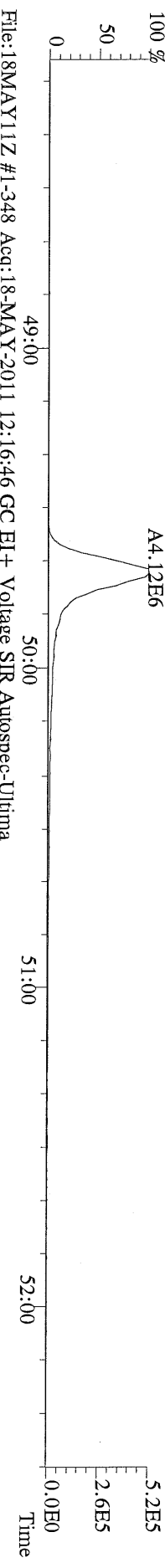
File:18MAY11Z #1-542 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
430.9728 F:4 Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



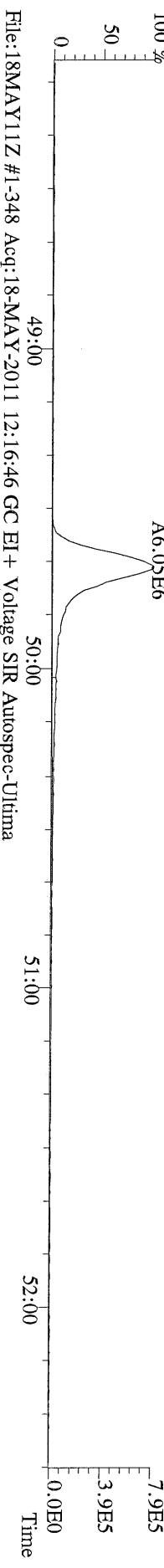
File:18MAY11Z #1-348 Acq:18-MAY-2011 12:16:46 GC EI + Voltage SIR Autospec-Ultima
457.7377 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



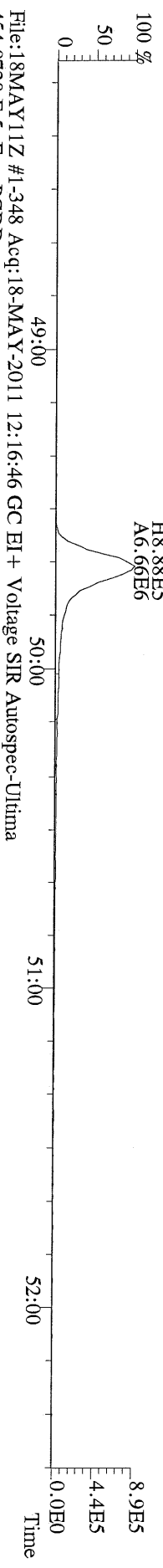
File:18MAY11Z #1-348 Acq:18-MAY-2011 12:16:46 GC EI + Voltage SIR Autospec-Ultima
459.7348 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



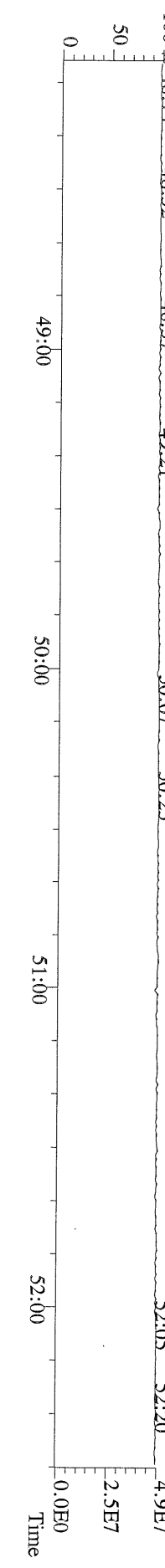
File:18MAY11Z #1-348 Acq:18-MAY-2011 12:16:46 GC EI + Voltage SIR Autospec-Ultima
469.7780 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



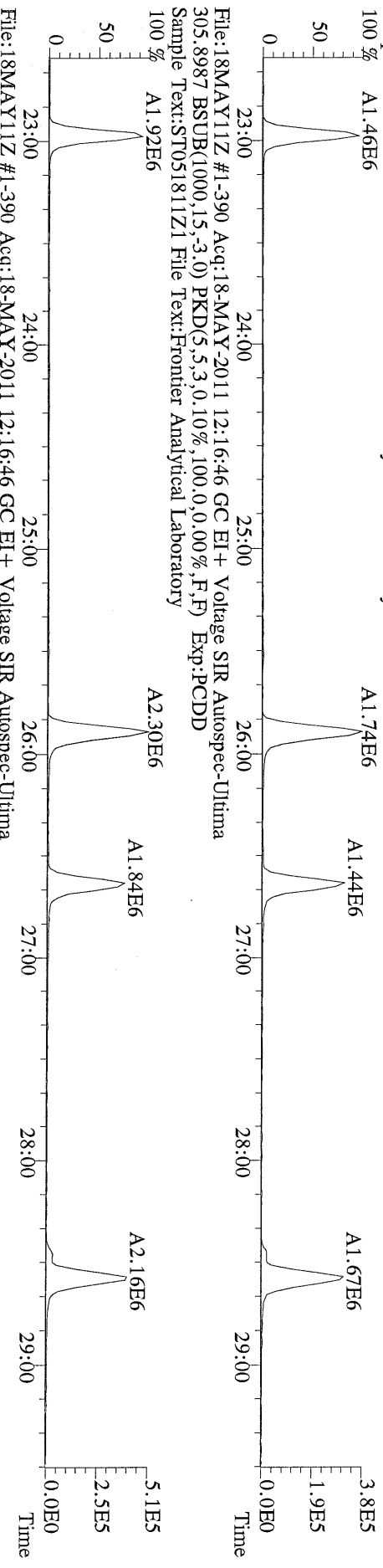
File:18MAY11Z #1-348 Acq:18-MAY-2011 12:16:46 GC EI + Voltage SIR Autospec-Ultima
471.7750 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



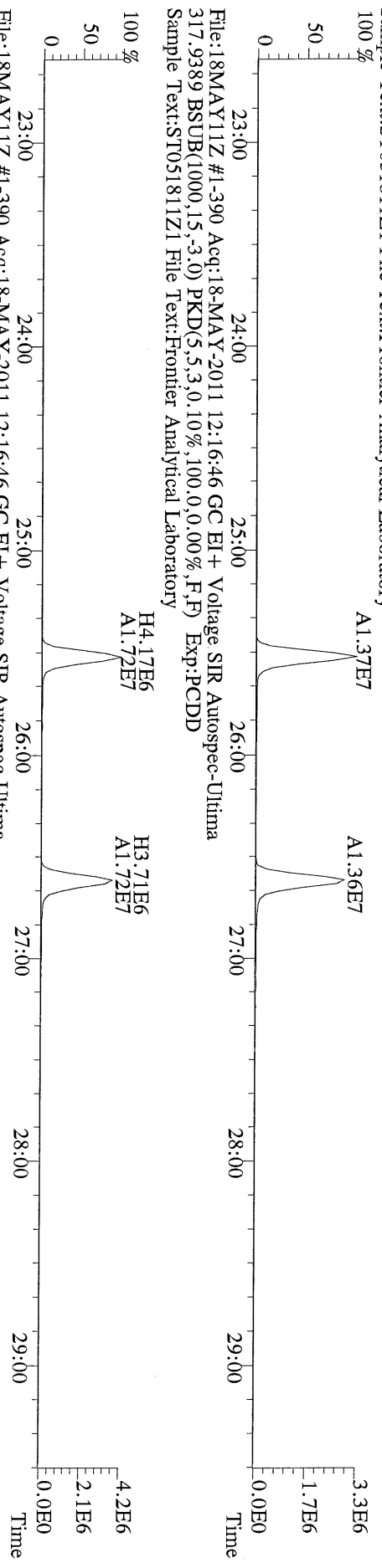
File:18MAY11Z #1-348 Acq:18-MAY-2011 12:16:46 GC EI + Voltage SIR Autospec-Ultima
454.9728 F:5 Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



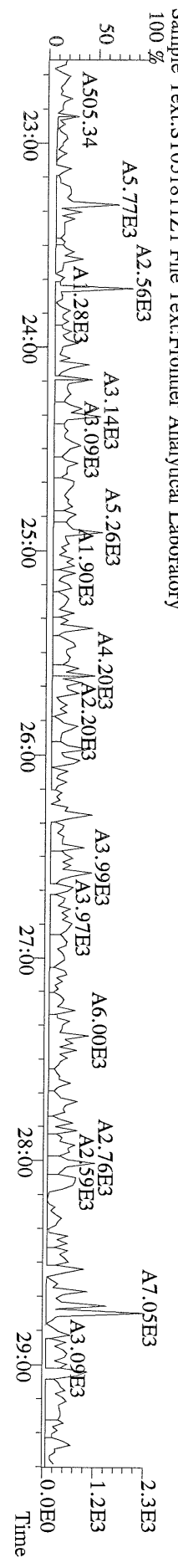
File:18MAY11Z #1-390 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
303.9016 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



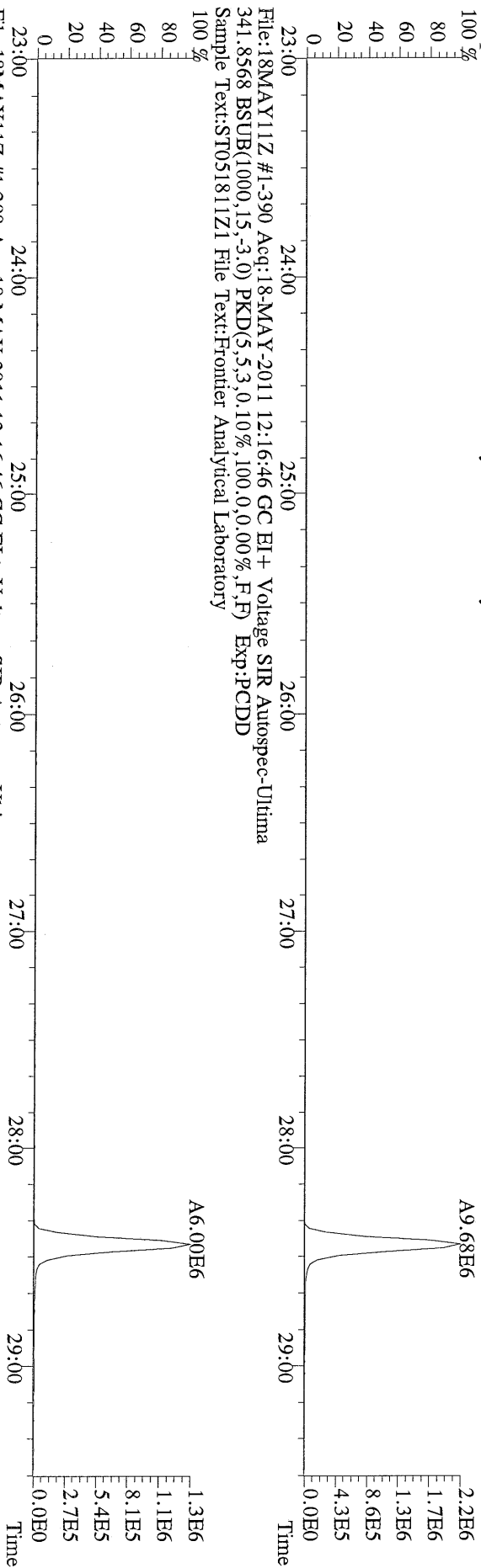
File:18MAY11Z #1-390 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
315.9419 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



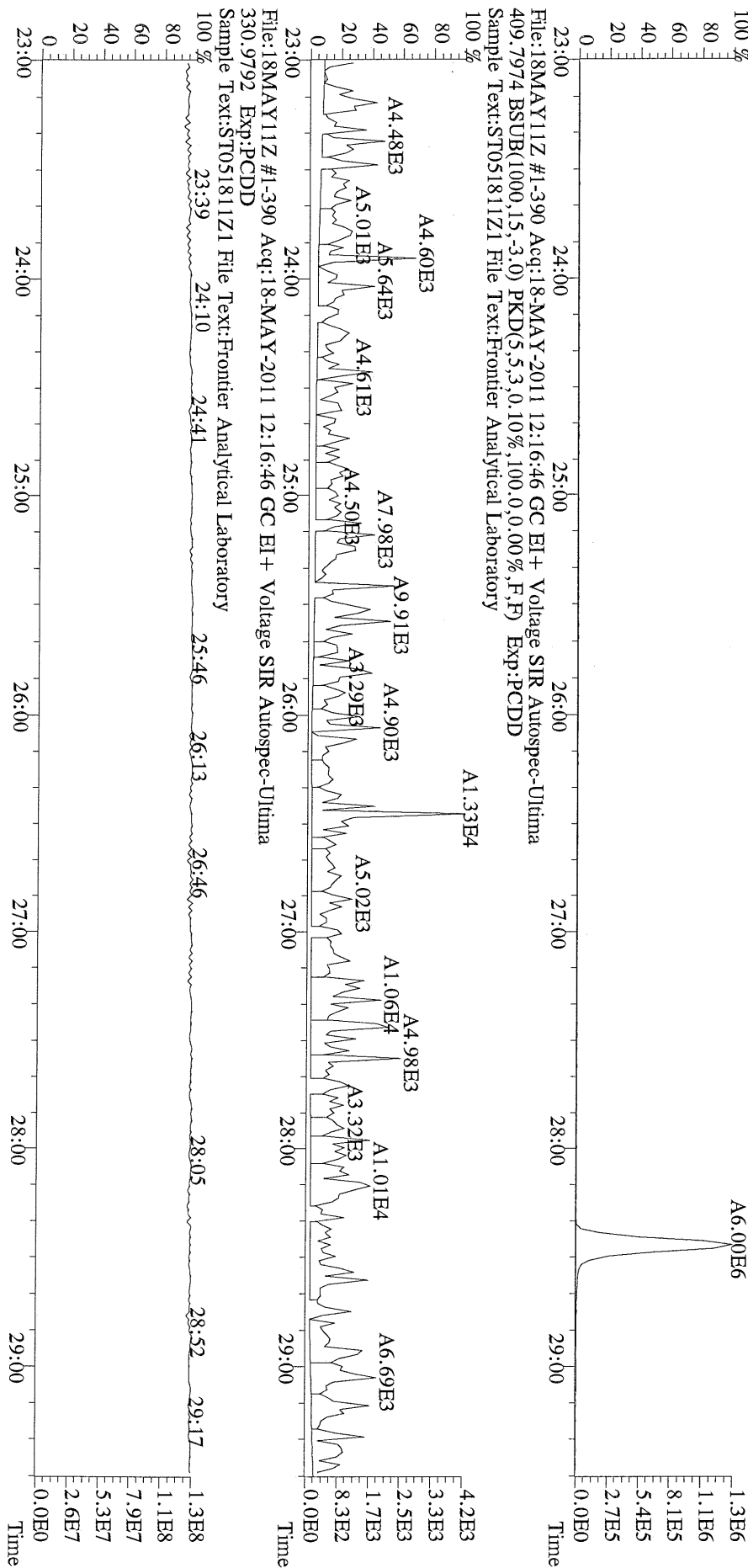
File:18MAY11Z #1-390 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
375.8364 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



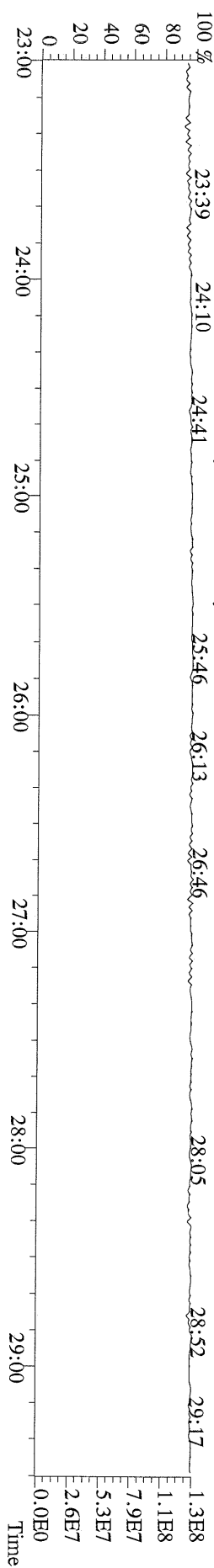
File:18MAY11Z #1-390 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



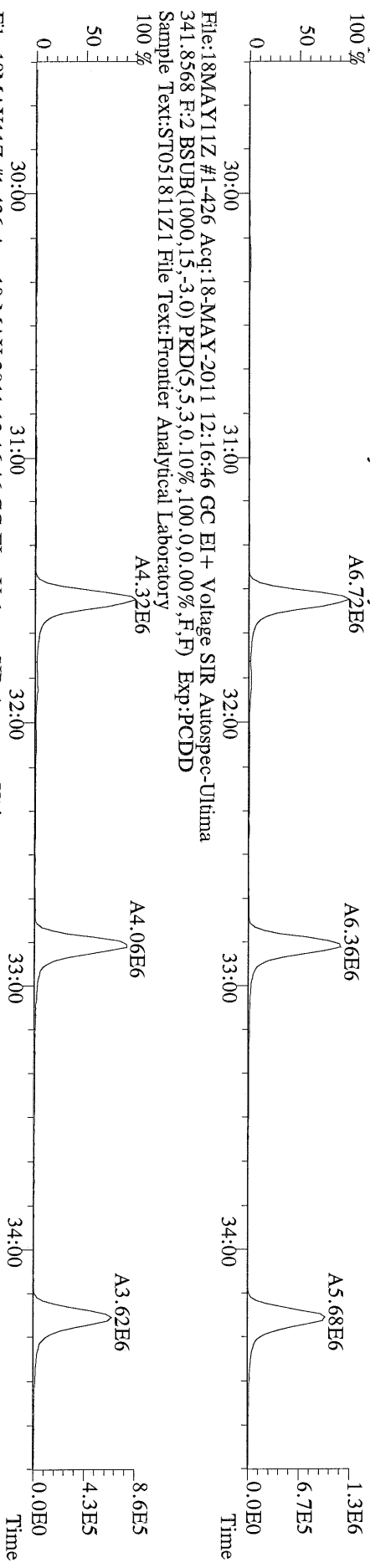
File:18MAY11Z #1-390 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



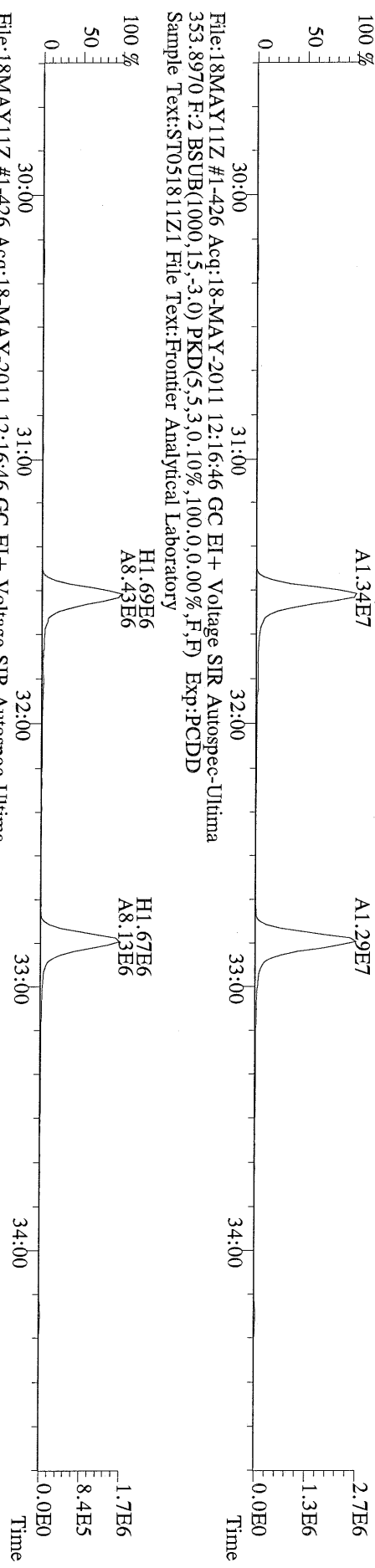
File:18MAY11Z #1-390 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 Exp:PCDD
 Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



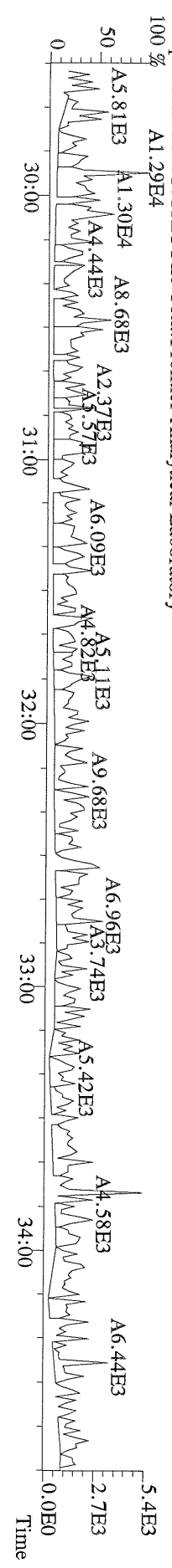
File:18MAY11Z #1-426 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
339.8597 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



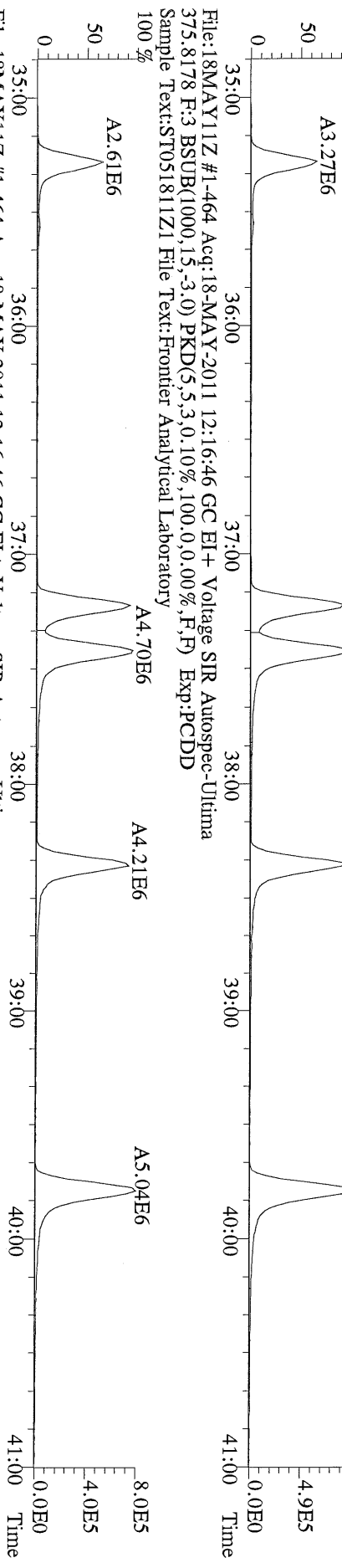
File:18MAY11Z #1-426 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
351.9000 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



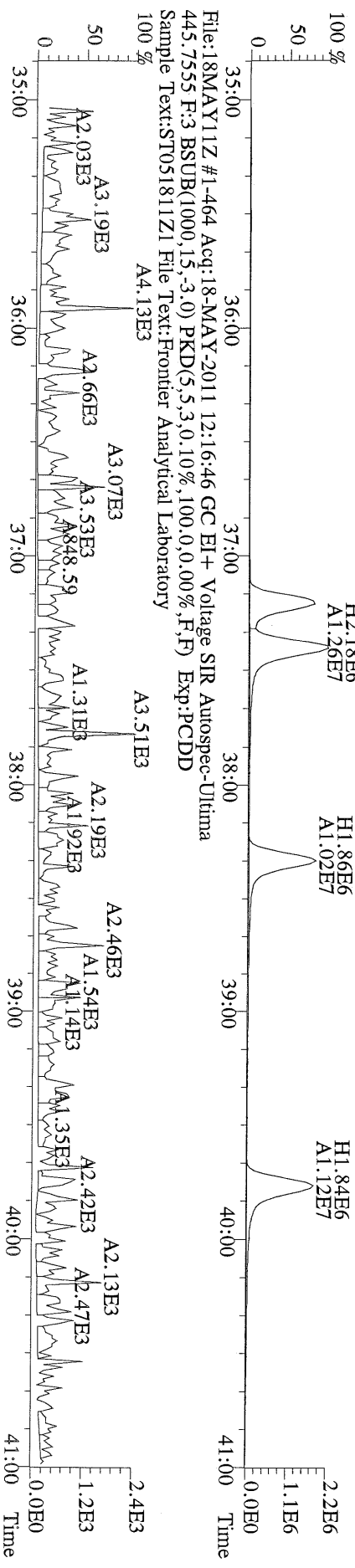
File:18MAY11Z #1-426 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
409.7974 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



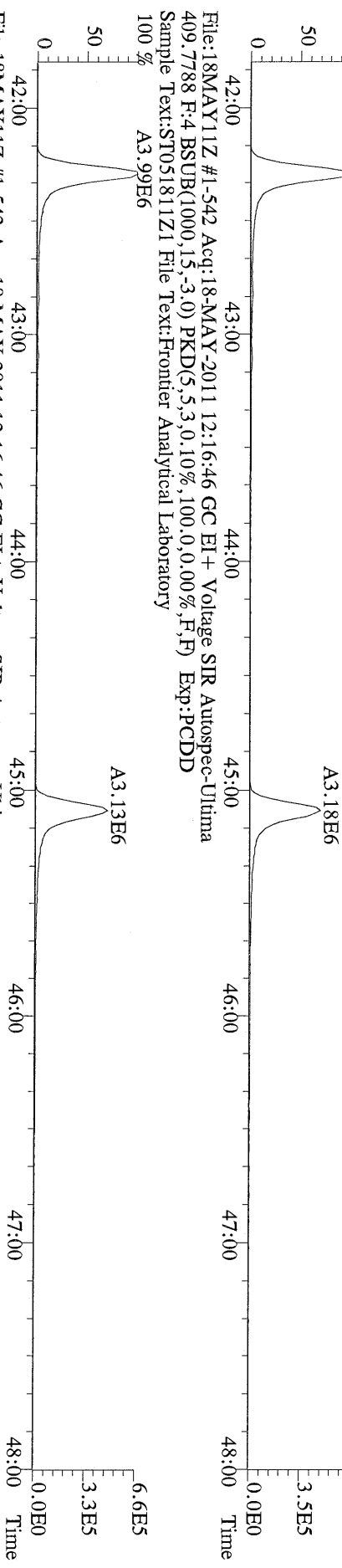
File: 18MAY11Z #1-464 Acq: 18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
373.8207 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



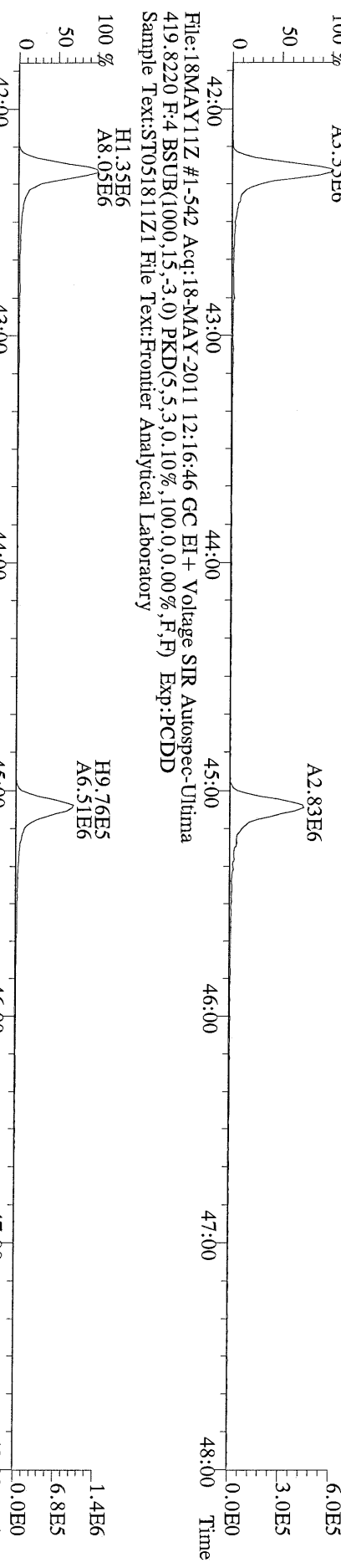
File: 18MAY11Z #1-464 Acq: 18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
385.8610 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



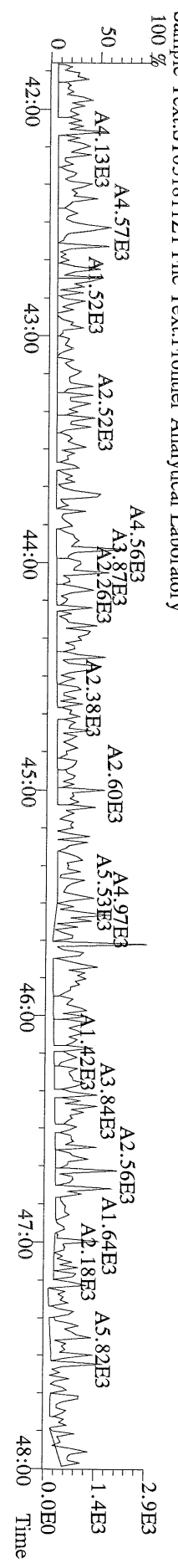
File:18MAY11Z #1-542 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
407.7818 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory
100 %



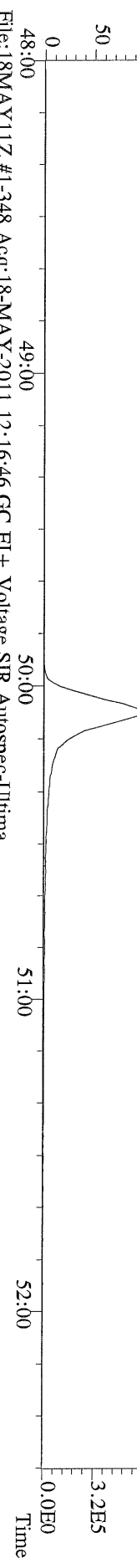
File:18MAY11Z #1-542 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
417.8253 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory
100 %



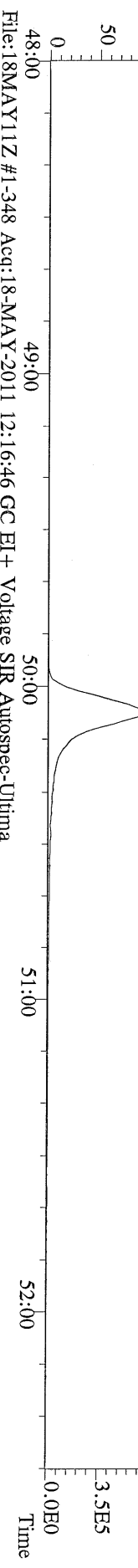
File:18MAY11Z #1-542 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
419.8220 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory
100 %



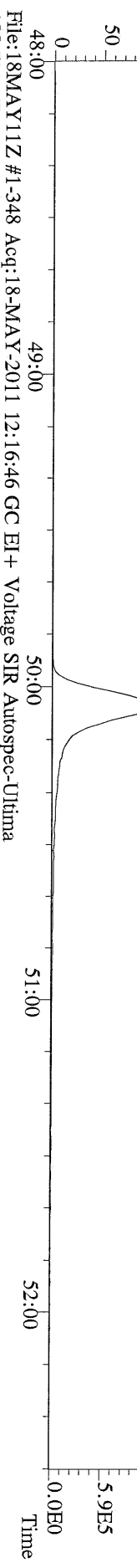
File:18MAY11Z #1-348 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
441.7428 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



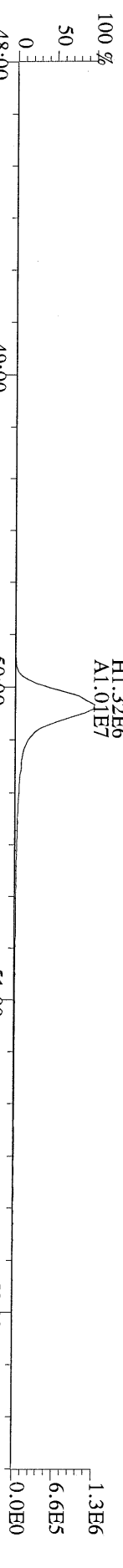
File:18MAY11Z #1-348 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
443.7398 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



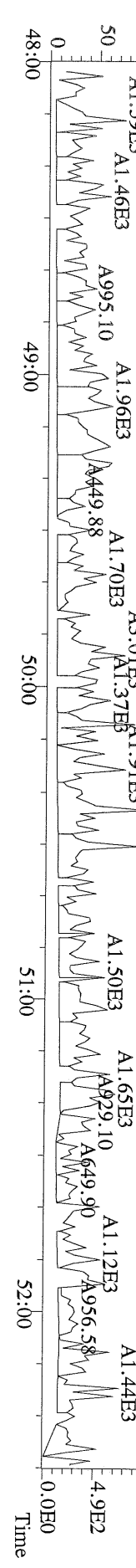
File:18MAY11Z #1-348 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
453.7831 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory

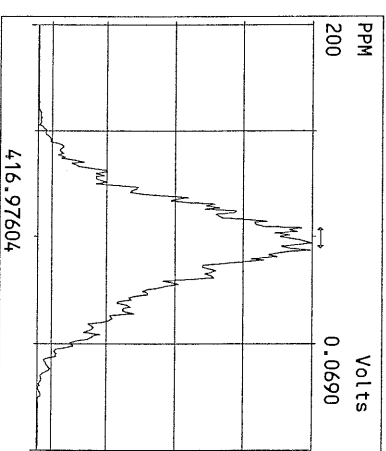
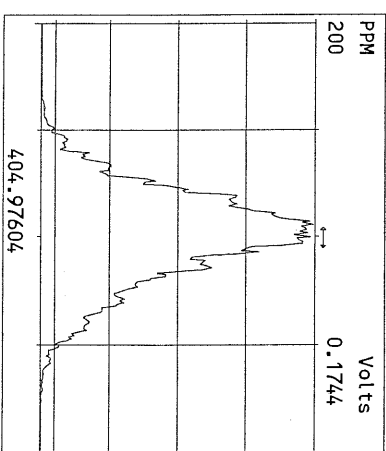
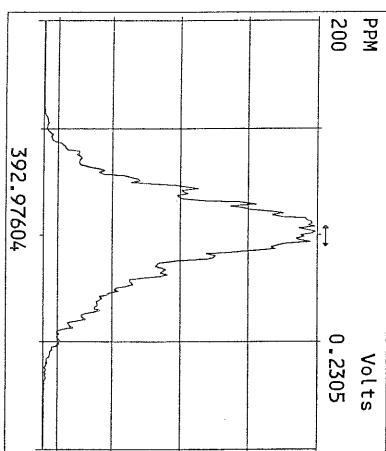
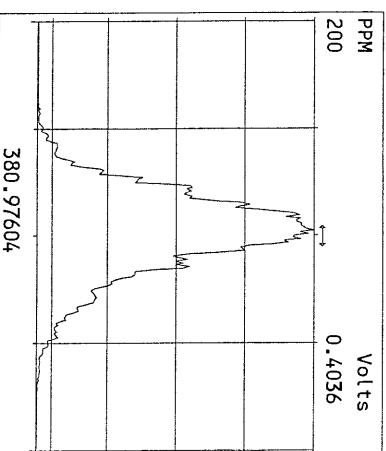
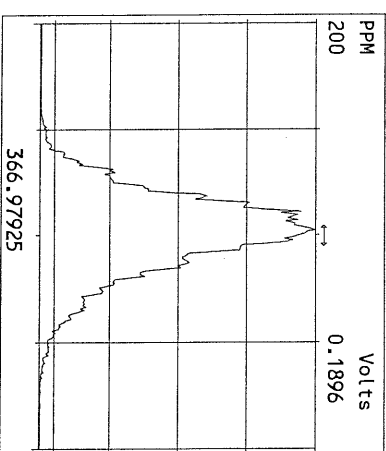
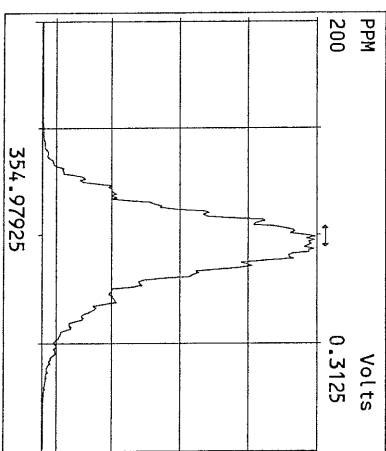
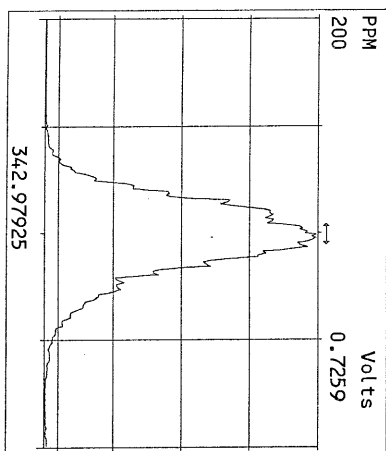
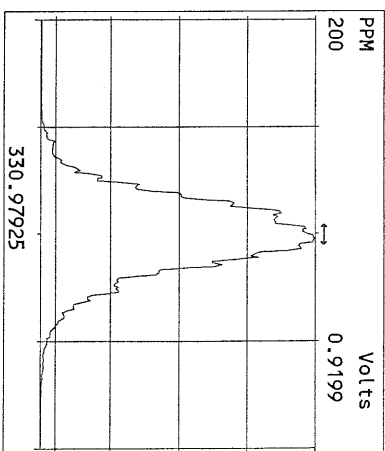
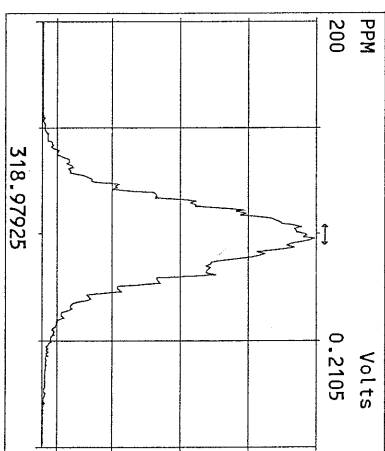
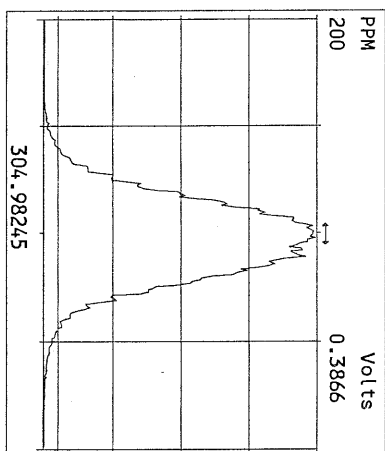
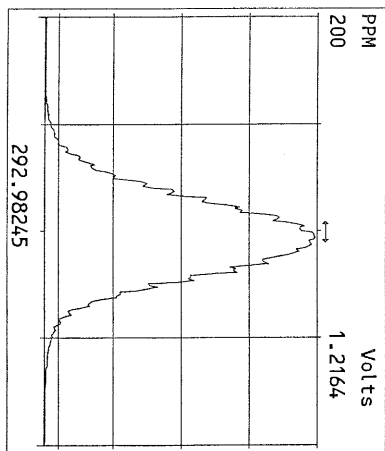


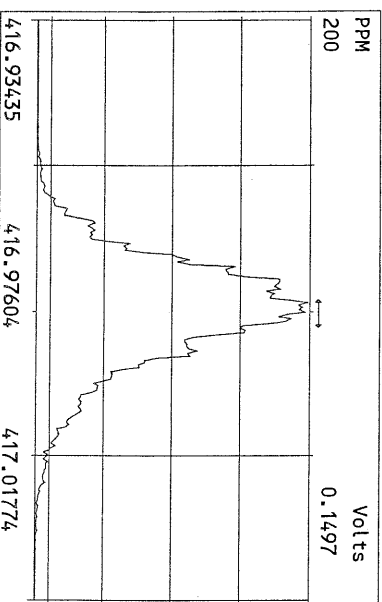
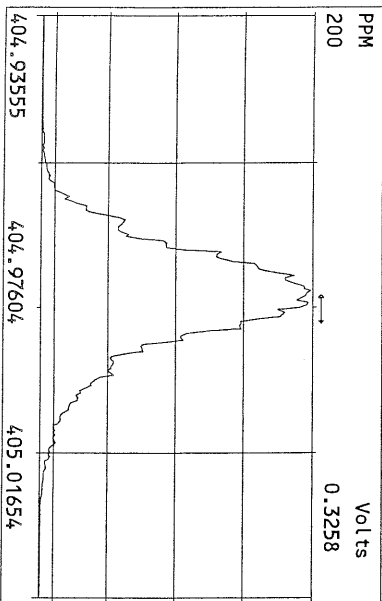
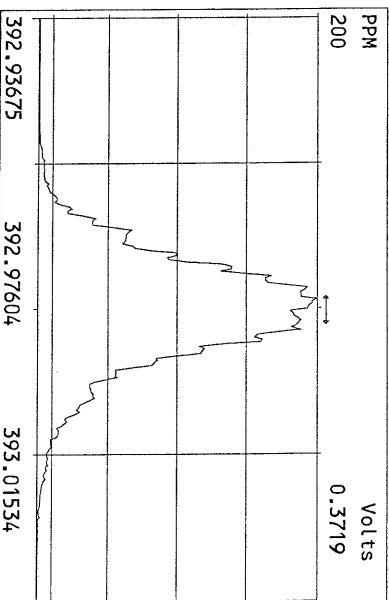
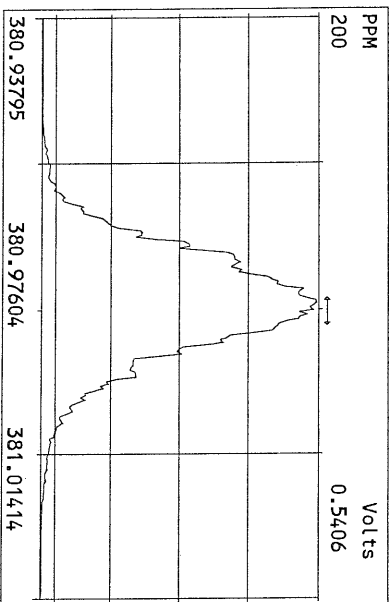
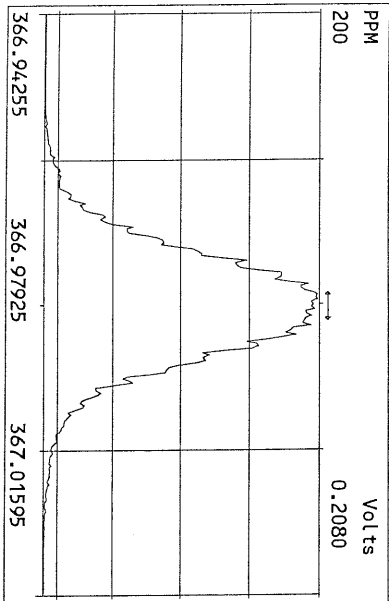
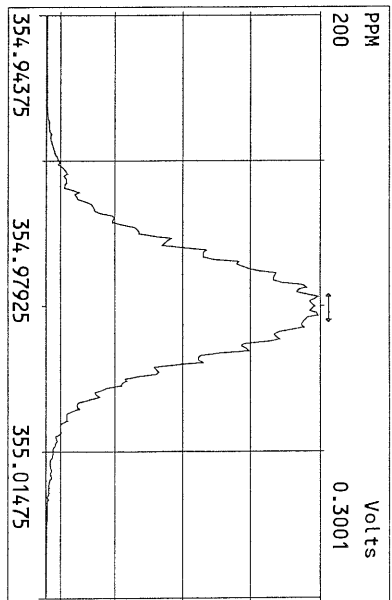
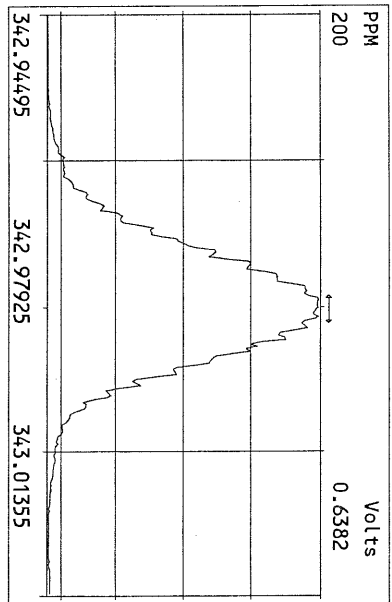
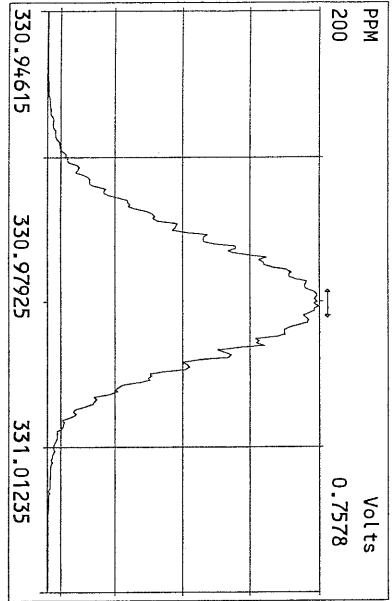
File:18MAY11Z #1-348 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
455.7801 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory

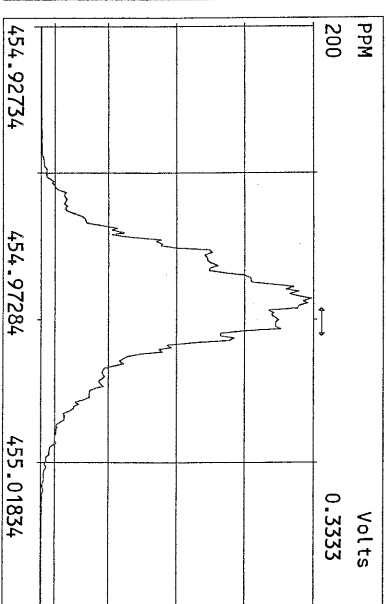
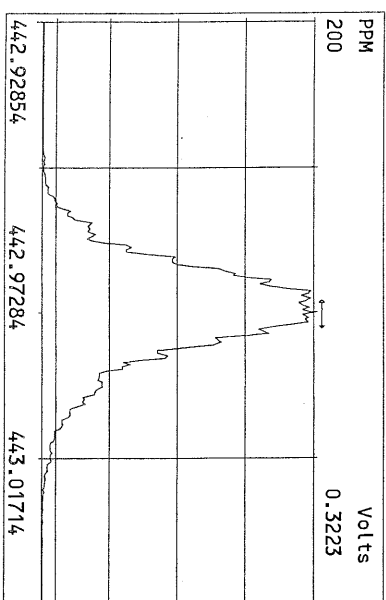
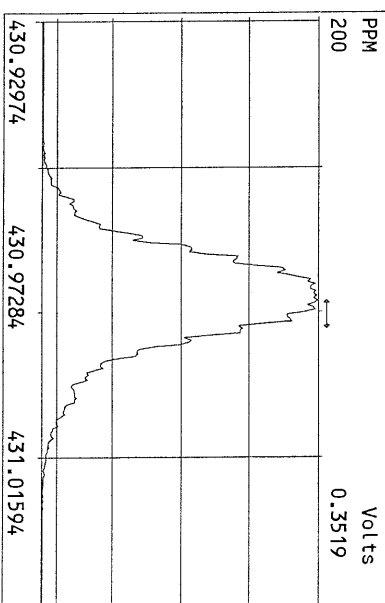
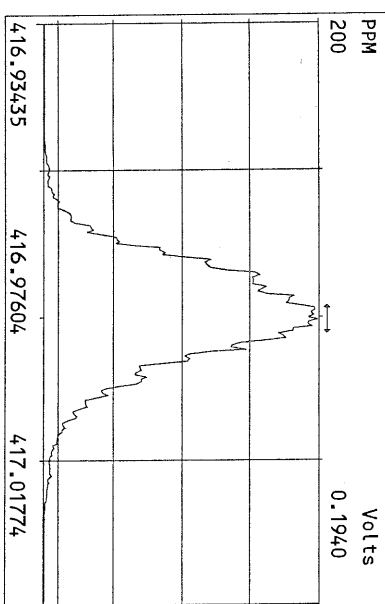
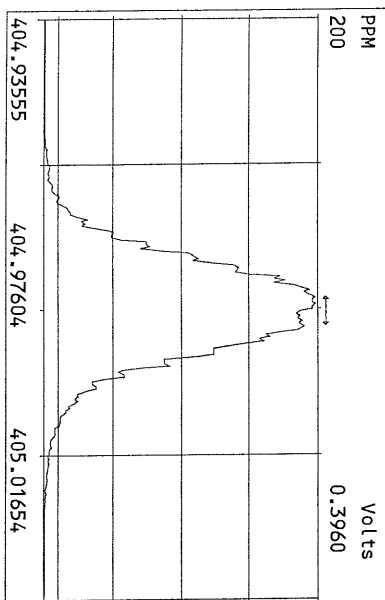
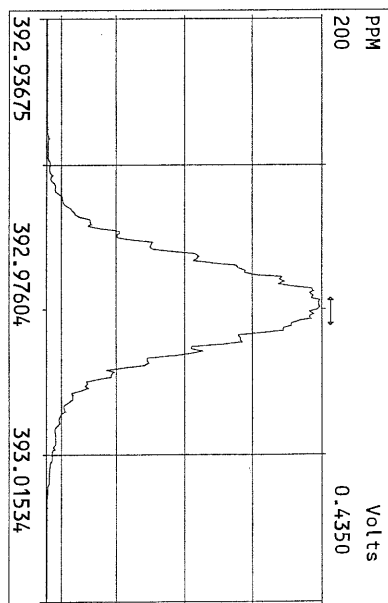
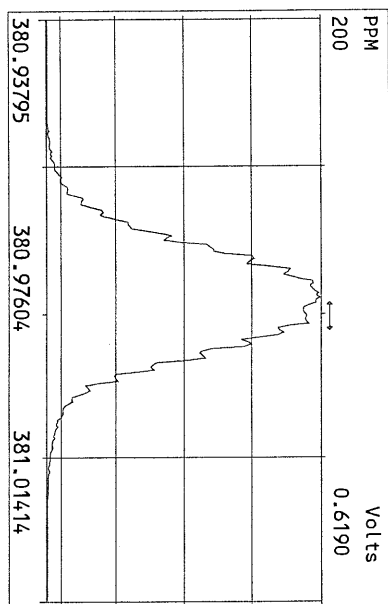
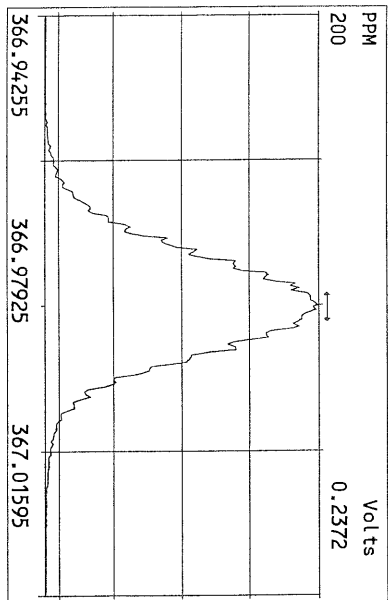


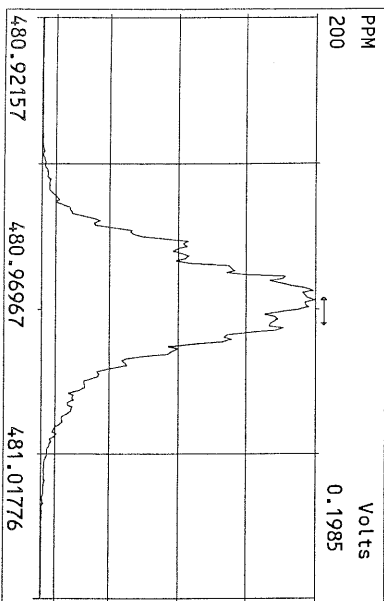
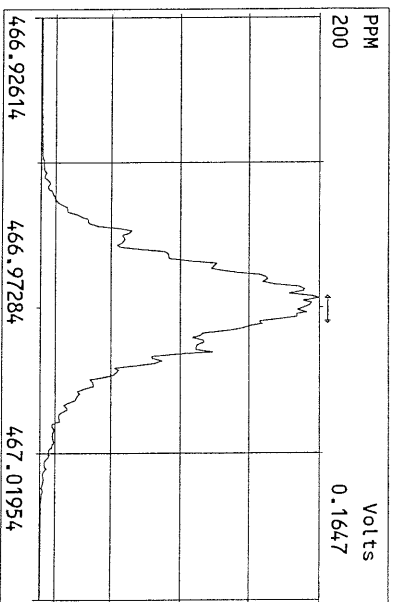
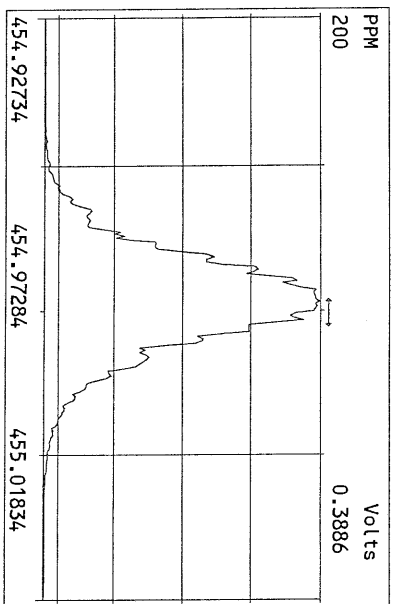
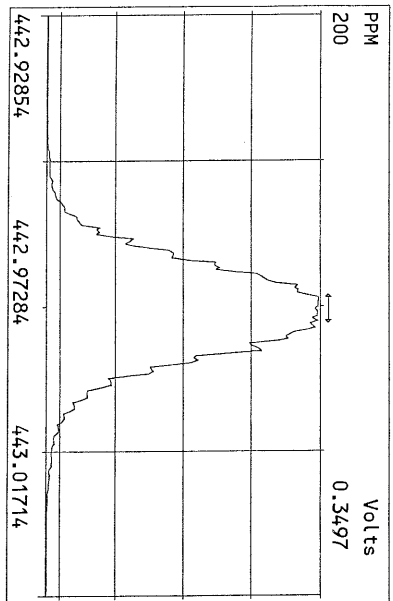
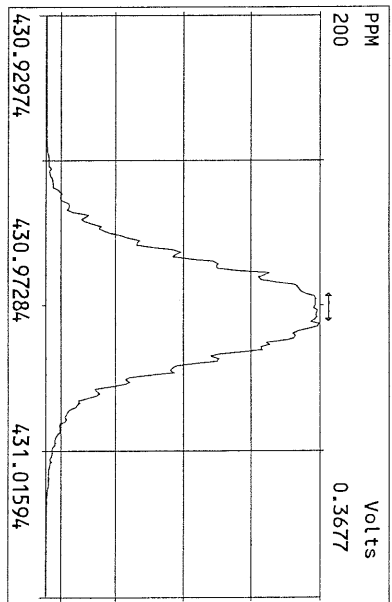
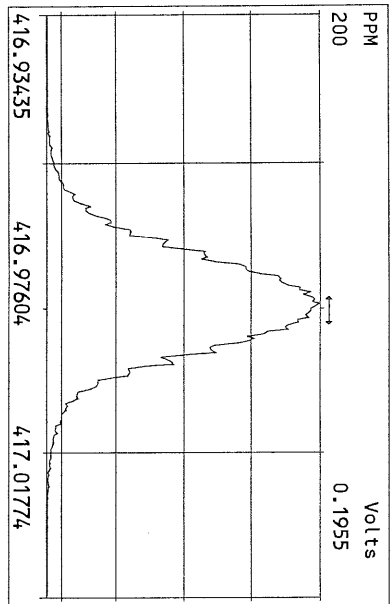
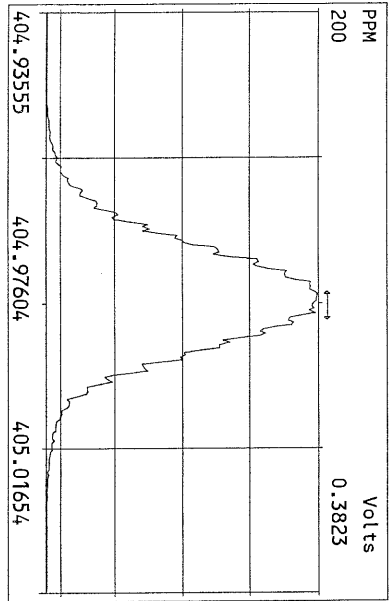
File:18MAY11Z #1-348 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
513.6775 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory

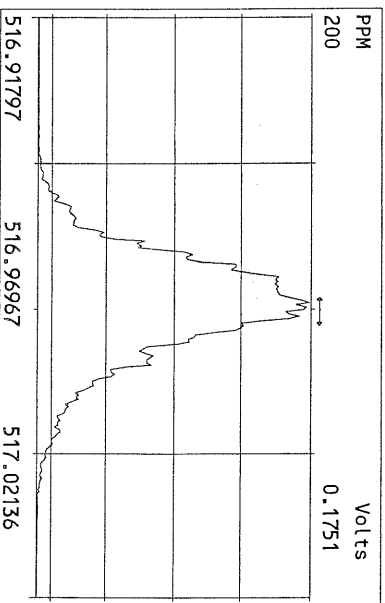
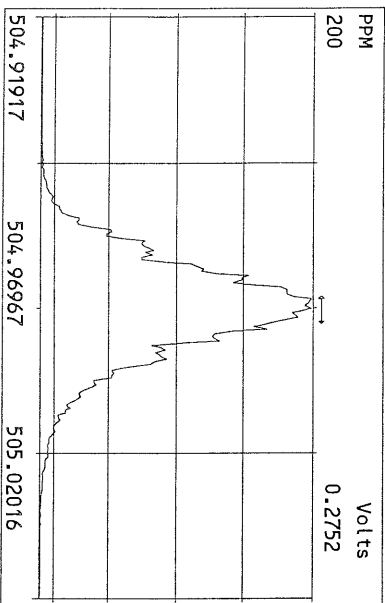
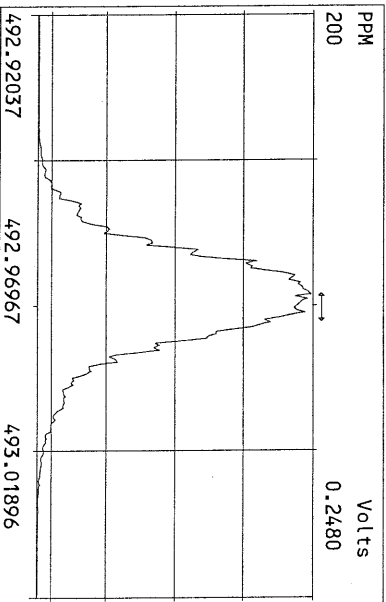
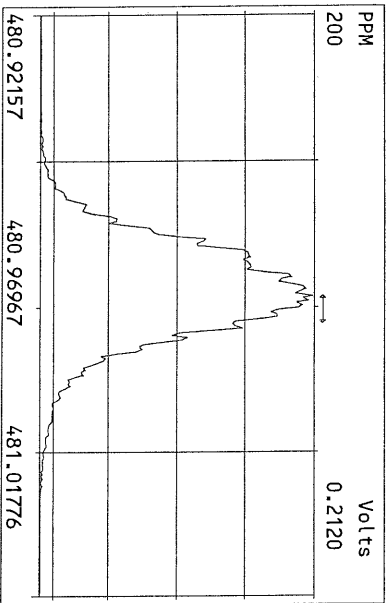
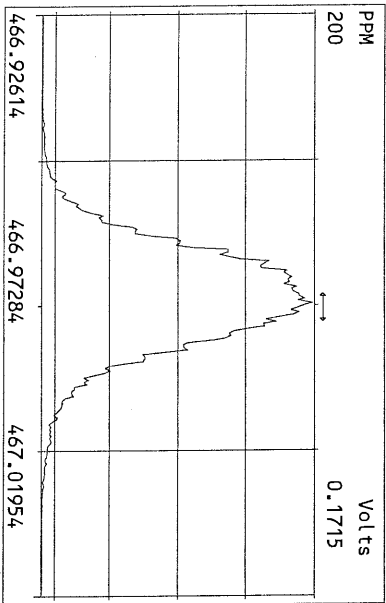
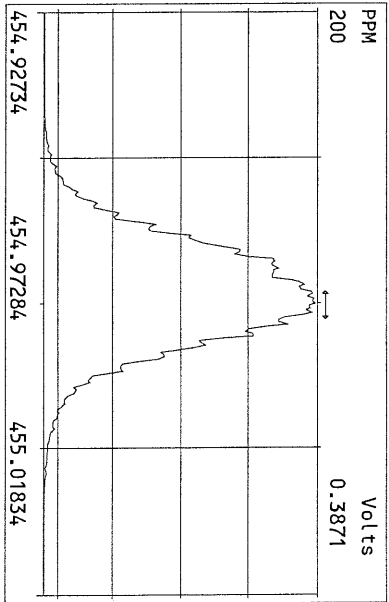
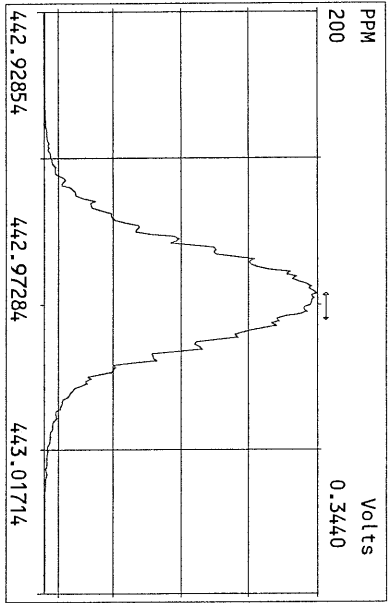
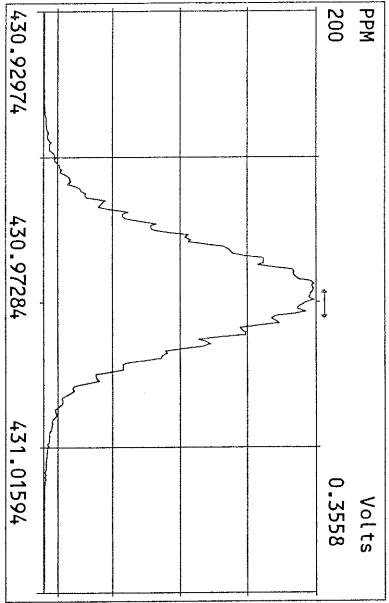












USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4 GC Column ID: DB5

VER Data Filename: 18MAY11Z Sam:15 Analysis Date: 19-MAY-11 01:03:43

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	9.38	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.57	1.32-1.78	y	48.0	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	49.4	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	51.6	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	52.9	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	50.9	43.0 - 58.0
OCDD	M+2/M+4	0.90	0.76-1.02	y	93.8	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	9.17	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.52	1.32-1.78	y	51.7	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.53	1.32-1.78	y	51.6	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	48.7	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	49.8	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	48.8	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.27	1.05-1.43	y	50.6	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.05	0.88-1.20	y	50.1	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.04	0.88-1.20	y	49.3	43.0 - 58.0
OCDF	M+2/M+4	0.89	0.76-1.02	y	104	63.0 - 159

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

Analyst: j

Date: 5/19/11

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4 GC Column ID: DB5

VER Data Filename: 18MAY11Z Sam:15 Analysis Date: 19-MAY-11 01:03:43

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	104	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.58	1.32-1.78	y	94.2	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	109	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	97.4	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	113	72.0 - 138
13C-OCDD	M+2/M+4	0.88	0.76-1.02	y	256	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	y	105	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	95.9	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	95.8	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	112	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	105	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	109	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	109	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.45	0.37-0.51	y	112	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.45	0.37-0.51	y	116	77.0 - 129
13C-OCDF	M+2/M+4	0.88	0.76-1.02	y	222	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.81	7.80 - 12.8

- (1) See Table 8, Method 1613, for m/z specifications.
- (2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (3) Contract-required concentration range as specified in Table 6, Method 1613.
- (4) No ion abundance ratio; report concentration found.

Analyst: *J* Date: 5/19/11

USEPA - ITD

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/17/11

Instrument ID: FAL4

GC Column ID: DB5

Analysis Date: 19-MAY-11 01:03:43

CS3 or VER Data Filename: 18MAY11Z

Sam:15

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.000	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.989-1.052
13C-2,3,7,8-TCDD		1.021	0.976-1.043
13C-2,3,7,8-TCDF		0.993	0.923-1.103
13C-1,2,3,7,8-PeCDD		1.240	1.000-1.567
13C-1,2,3,7,8-PeCDF		1.176	0.923-1.203
13C-2,3,4,7,8-PeCDF		1.225	0.923-1.303

(1) Contract-required limits for Relative Retention Times (RRT) as specified
in Table 2, Method 1613.

Analyst: JDate: 5/19/11

USEPA - ITD

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/17/11

Instrument ID: FAL4

GC Column ID: DB5

Analysis Date: 19-MAY-11 01:03:43

CS3 or VER Data Filename: 18MAY11Z

Sam:15

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.001	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.001	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.001	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.001	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.984	0.977-1.000
13C-1,2,3,6,7,8-HxCDD		0.988	0.981-1.003
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021
13C-1,2,3,7,8,9-HxCDF		1.014	0.977-1.047
13C-1,2,3,4,6,7,8-HpCDD		1.126	1.086-1.130
13C-1,2,3,4,6,7,8-HpCDF		1.078	1.043-1.085
13C-1,2,3,4,7,8,9-HpCDF		1.150	1.057-1.154
13C-OCDD		1.267	1.032-1.311
13C-OCDF		1.277	1.000-1.311

(1) Contract-required limits for Relative Retention Times (RRT) as specified
in Table 2, Method 1613.

Analyst: Date: 5/19/11

FAL ID: ST05181122 Filename: 18MAY11Z Sam:15 Acquired: 19-MAY-11 01:03:43 ICal: PCDDFAL4-5-17-11
Client ID: 1613 CS3 100511J ConCal: ST051811Z1 EndCal: ST051811Z2

Results:			GC Column: DB5	Amount: 1.000	NATO 1989 Tox: 99.6	WHO 1998 Tox: 123	WHO 2005 Tox: 112		DL		
	Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2		
	2,3,7,8-TCDD	2.52e+06	0.79 y	27:24	1.15	9.38		2.50	-	*	
	1,2,3,7,8-PeCDD	8.35e+06	1.57 y	33:15	1.02	48.0		2.50	-	*	
	1,2,3,4,7,8-HxCDD	8.12e+06	1.28 y	38:36	1.09	49.4		2.50	-	*	
	1,2,3,6,7,8-HxCDD	6.99e+06	1.22 y	38:46	1.08	51.6		2.50	-	*	
	1,2,3,7,8,9-HxCDD	8.16e+06	1.24 y	39:12	1.12	52.9		2.50	-	*	
	1,2,3,4,6,7,8-HpCDD	5.96e+06	1.04 y	44:10	1.03	50.9		2.50	-	*	
	OCDD	9.74e+06	0.90 y	49:41	1.21	93.8		2.50	-	*	
	2,3,7,8-TCDF	3.13e+06	0.77 y	26:37	1.09	9.17		2.50	-	*	
	1,2,3,7,8-PeCDF	1.13e+07	1.52 y	31:32	0.96	51.7		2.50	-	*	
	2,3,4,7,8-PeCDF	1.09e+07	1.53 y	32:50	0.96	51.6		2.50	-	*	
	1,2,3,4,7,8-HxCDF	9.13e+06	1.25 y	37:13	1.18	48.7		2.50	-	*	
	1,2,3,6,7,8-HxCDF	1.02e+07	1.24 y	37:25	1.03	49.8		2.50	-	*	
	2,3,4,6,7,8-HxCDF	9.65e+06	1.26 y	38:21	1.17	48.8		2.50	-	*	
	1,2,3,7,8,9-HxCDF	1.23e+07	1.27 y	39:47	1.27	50.6		2.50	-	*	
	1,2,3,4,6,7,8-HpCDF	8.49e+06	1.05 y	42:17	1.36	50.1		2.50	-	*	
	1,2,3,4,7,8,9-HpCDF	7.16e+06	1.04 y	45:05	1.35	49.3		2.50	-	*	
	OCDF	1.15e+07	0.89 y	50:04	0.97	104		2.50	-	*	
										Rec	
	13C-2,3,7,8-TCDD	2.34e+07	0.78 y	27:23	0.99	104				104	
	13C-1,2,3,7,8-PeCDD	1.70e+07	1.58 y	33:14	0.79	94.2				94.2	
	13C-1,2,3,4,7,8-HxCDD	1.51e+07	1.27 y	38:34	1.03	109				109	
	13C-1,2,3,6,7,8-HxCDD	1.25e+07	1.23 y	38:45	0.96	97.4				97.4	
	13C-1,2,3,4,6,7,8-HpCDD	1.14e+07	1.07 y	44:09	0.75	113				113	
	13C-OCDD	1.72e+07	0.88 y	49:40	0.50	256				128	
	13C-2,3,7,8-TCDF	3.14e+07	0.80 y	26:36	0.98	105				105	
	13C-1,2,3,7,8-PeCDF	2.26e+07	1.56 y	31:31	0.78	95.9				95.9	
	13C-2,3,4,7,8-PeCDF	2.19e+07	1.58 y	32:49	0.75	95.8				95.8	
	13C-1,2,3,4,7,8-HxCDF	1.58e+07	0.52 y	37:12	1.05	112				112	
	13C-1,2,3,6,7,8-HxCDF	1.98e+07	0.51 y	37:24	1.40	105				105	
	13C-2,3,4,6,7,8-HxCDF	1.70e+07	0.52 y	38:20	1.16	109				109	
	13C-1,2,3,7,8,9-HxCDF	1.90e+07	0.52 y	39:46	1.30	109				109	
	13C-1,2,3,4,6,7,8-HpCDF	1.24e+07	0.45 y	42:16	0.83	112				112	
	13C-1,2,3,4,7,8,9-HpCDF	1.08e+07	0.45 y	45:04	0.69	116				116	
	13C-OCDF	2.29e+07	0.88 y	50:03	0.77	222				111	
	37Cl-2,3,7,8-TCDD	1.59e+06		27:25	0.71	9.81				98.1	
	13C-1,2,3,4-TCDD	2.28e+07	0.80 y	26:48	-	42.8					
	13C-1,2,3,4-TCDF	3.04e+07	0.80 y	25:31	-	40.6					
	13C-1,2,3,7,8,9-HxCDD	1.34e+07	1.23 y	39:12	-	34.7					
	Total Tetra-Dioxins	1.36e+07		23:08	1.15	50.6		2.50	-	*	23
	Total Penta-Dioxins	1.79e+07		30:17	1.02	103		2.50	-	*	18
	Total Hexa-Dioxins	2.66e+07		36:09	1.10	176		2.50	-	*	24
	Total Hepta-Dioxins	1.26e+07		42:21	1.03	108		2.50	-	*	28
	Total Tetra-Furans	1.48e+07		22:58	1.09	43.5		2.50	-	*	29
	1st Fn. Tot Penta-Furans	1.69e+07		28:26	0.96	78.9		2.50	-	*	PeCDF 4
	Total Penta-Furans	3.31e+07		30:05	0.96	155		2.50	-	*	234 18
	Total Hexa-Furans	4.76e+07		35:17	1.16	229		2.50	-	*	15
	Total Hepta-Furans	1.62e+07		42:17	1.36	103		2.50	-	*	24

Analyst: S

Date: 5/19/11

Frontier Analytical Laboratory - Acquisition Log

Run Name:18MAY11Z Instrument: FAL4 GC: DB5 Experiment:PCDD

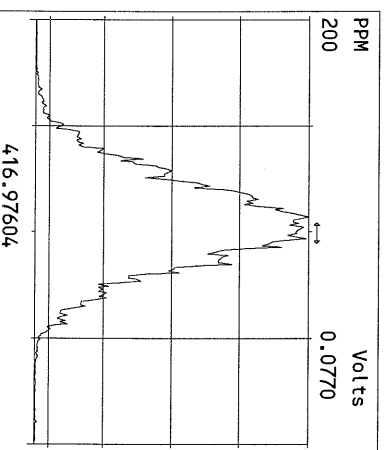
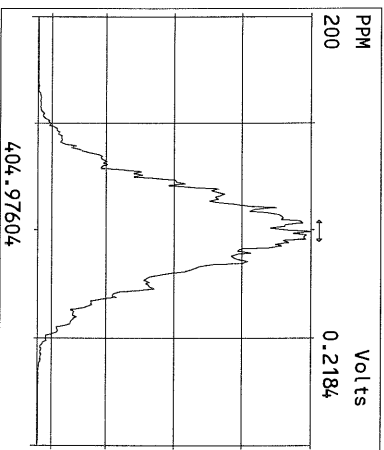
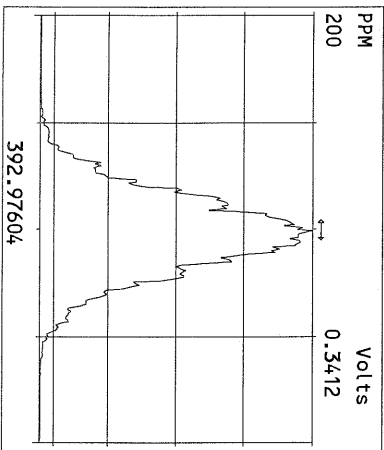
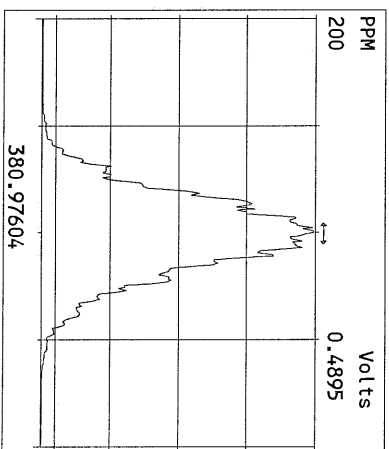
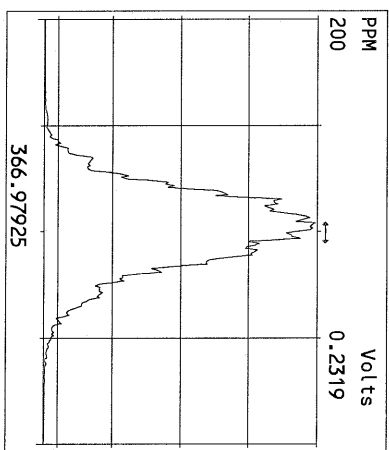
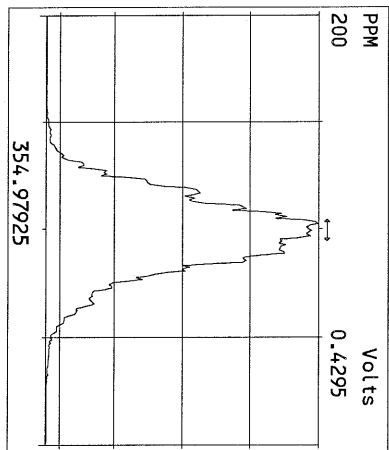
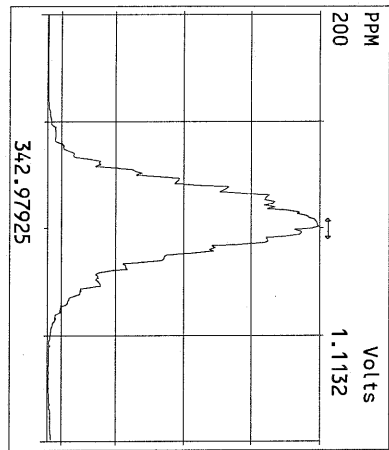
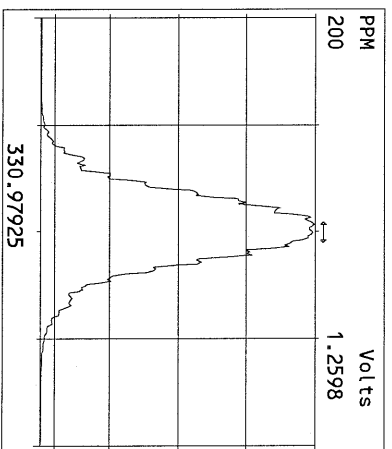
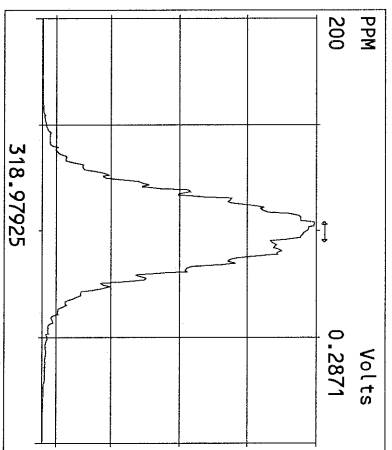
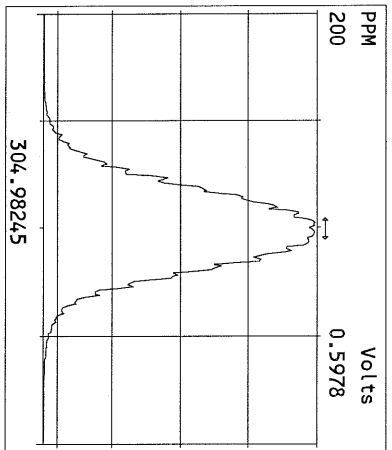
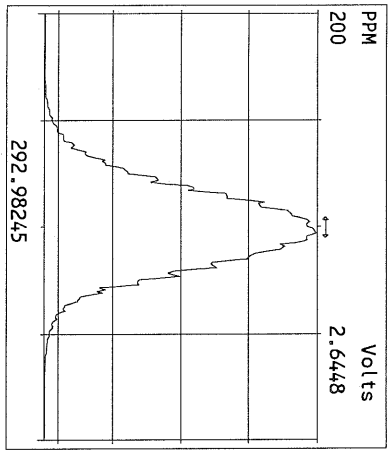
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
18MAY11Z	1	ST051811Z1	1613 CS3 100511J	18-MAY-11 12:16:46	ST051811Z1	ST051811Z2	BS
18MAY11Z	2	SB051811Z1	Solvent Blank	18-MAY-11 13:11:33	ST051811Z1	ST051811Z2	BS
18MAY11Z	3	2293-001-0001-OPR	OPR	18-MAY-11 14:06:21	ST051811Z1	ST051811Z2	BS
18MAY11Z	4	2293-001-0001-MB	Method Blank	18-MAY-11 15:01:08	ST051811Z1	ST051811Z2	BS
18MAY11Z	5	6739-001-0001-SA	MW02-042611	18-MAY-11 15:55:55	ST051811Z1	ST051811Z2	BS
18MAY11Z	6	6739-002-0001-SA	MW03-042611	18-MAY-11 16:50:42	ST051811Z1	ST051811Z2	BS
18MAY11Z	7	6739-003-0001-SA	MW13-042611	18-MAY-11 17:45:30	ST051811Z1	ST051811Z2	BS
18MAY11Z	8	6740-001-0001-SA	MW07-042711	18-MAY-11 18:40:18	ST051811Z1	ST051811Z2	BS
18MAY11Z	9	6740-002-0001-SA	MW11-042711	18-MAY-11 19:35:05	ST051811Z1	ST051811Z2	BS
18MAY11Z	10	6740-003-0001-SA	MW10-042711	18-MAY-11 20:29:51	ST051811Z1	ST051811Z2	BS
18MAY11Z	11	6740-004-0001-SA	MW09-042711	18-MAY-11 21:24:37	ST051811Z1	ST051811Z2	BS
18MAY11Z	12	6740-005-0001-SA	MW08-042711	18-MAY-11 22:19:23	ST051811Z1	ST051811Z2	BS
18MAY11Z	13	6740-006-0001-SA	MW12-042711	18-MAY-11 23:14:09	ST051811Z1	ST051811Z2	BS
18MAY11Z	14	SB051811Z2	Solvent Blank	19-MAY-11 00:08:56	ST051811Z1	ST051811Z2	BS
18MAY11Z	15	ST051811Z2	1613 CS3 100511J	19-MAY-11 01:03:43	ST051811Z1	ST051811Z2	BS
18MAY11Z	16	QC051811Z1	NEWQC	19-MAY-11 01:58:32	ST051811Z2	ST051811Z3	BS
18MAY11Z	17	QC051811Z2	SSQC	19-MAY-11 02:53:20	ST051811Z2	ST051811Z3	BS
18MAY11Z	18	SB051811Z3	Solvent Blank	19-MAY-11 03:48:07	ST051811Z2	ST051811Z3	BS

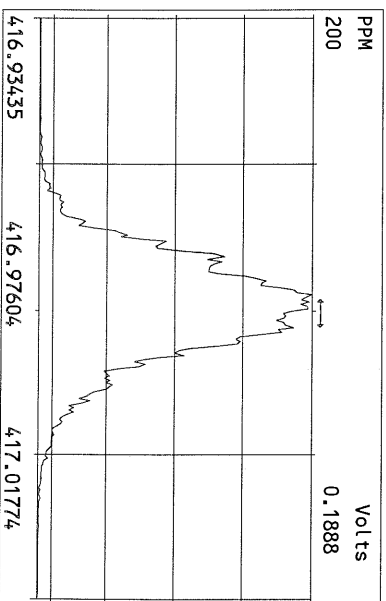
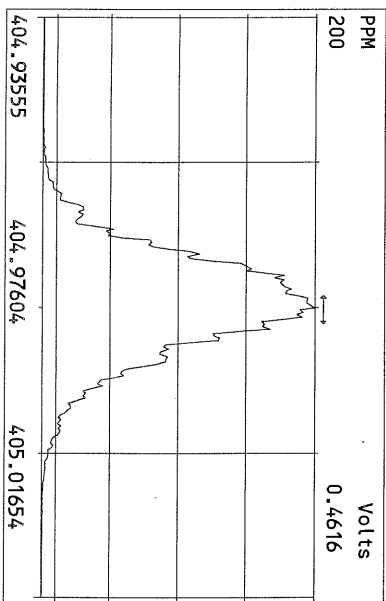
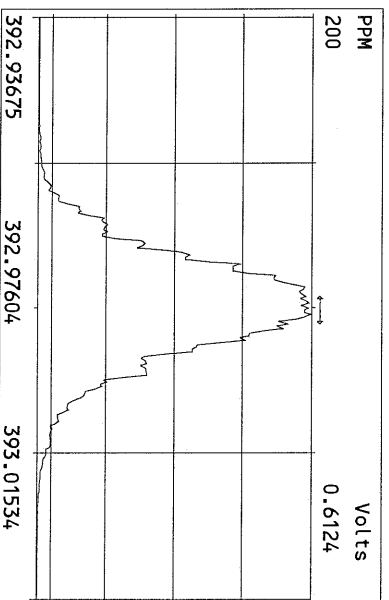
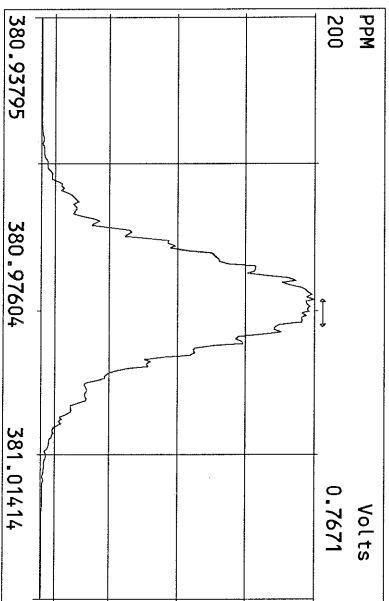
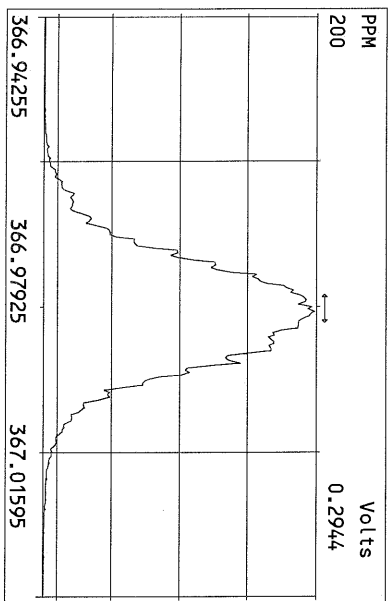
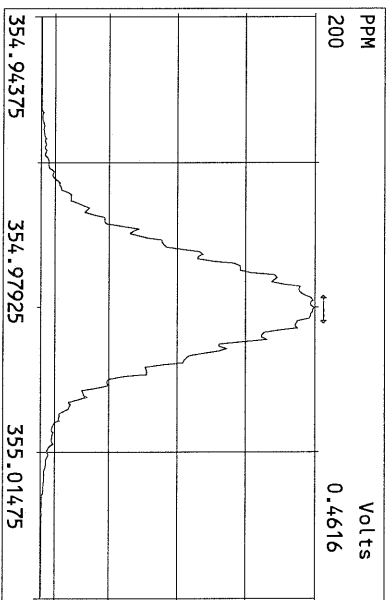
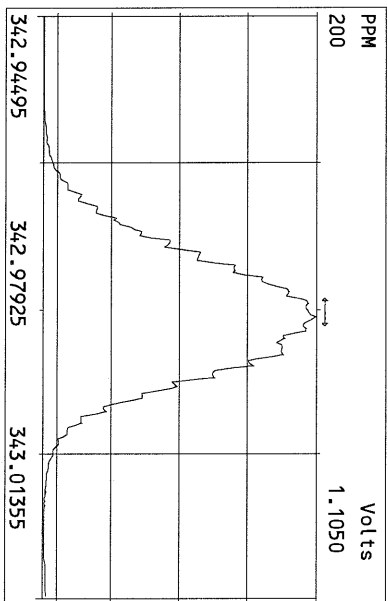
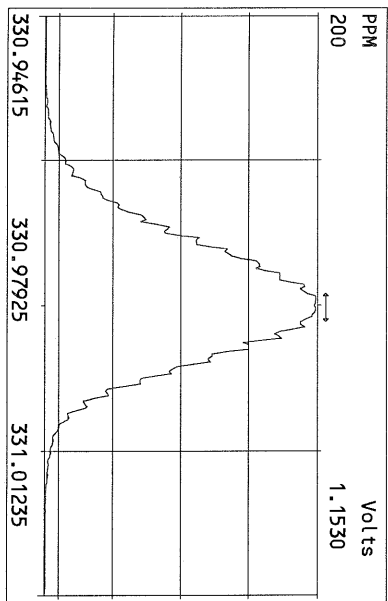
& 5/19/11

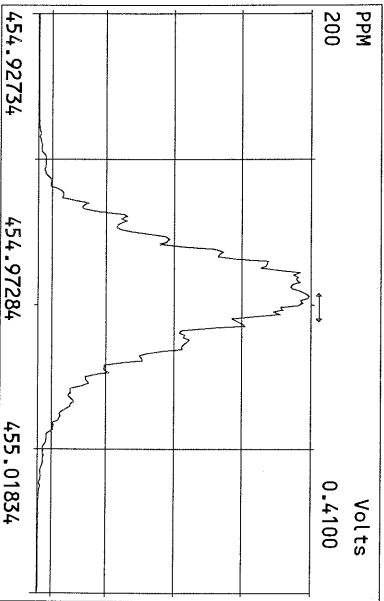
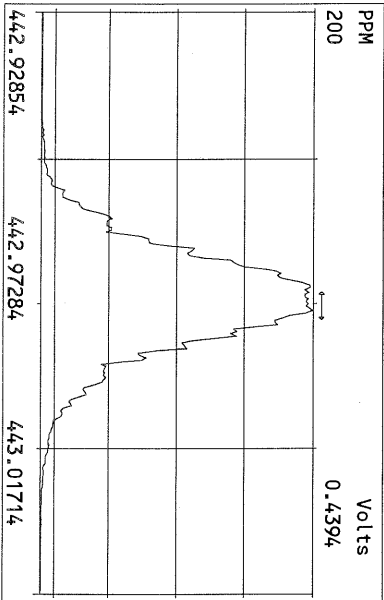
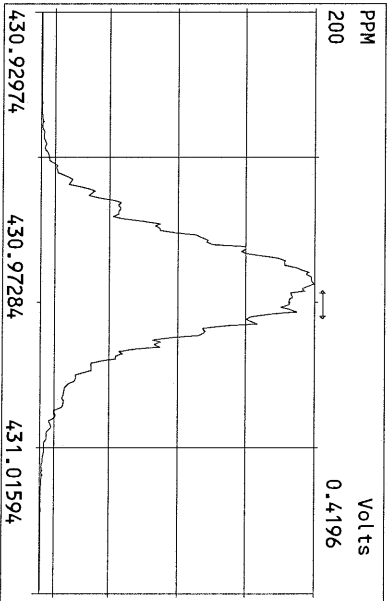
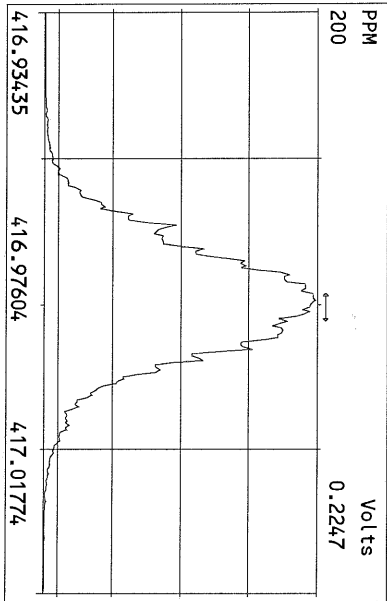
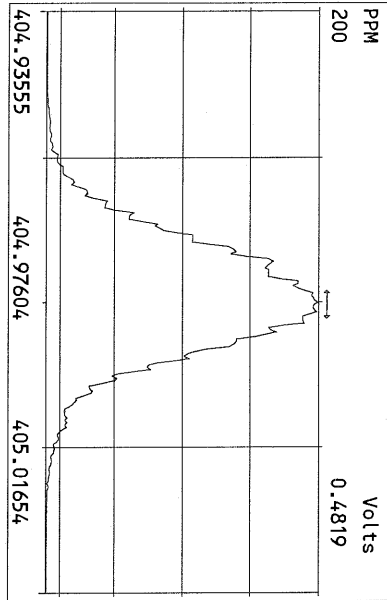
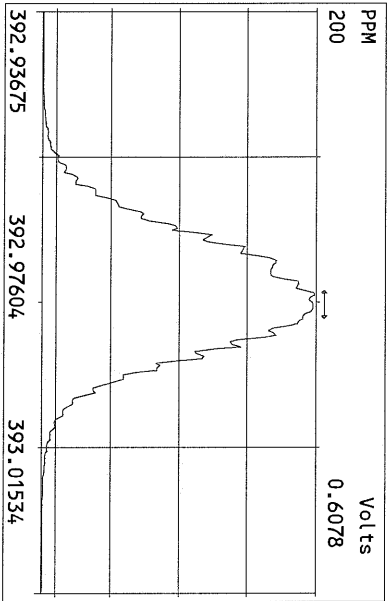
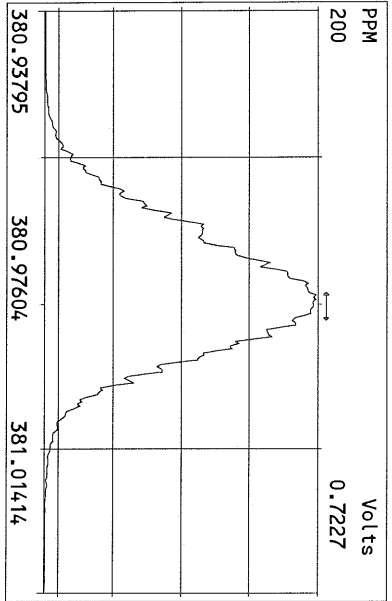
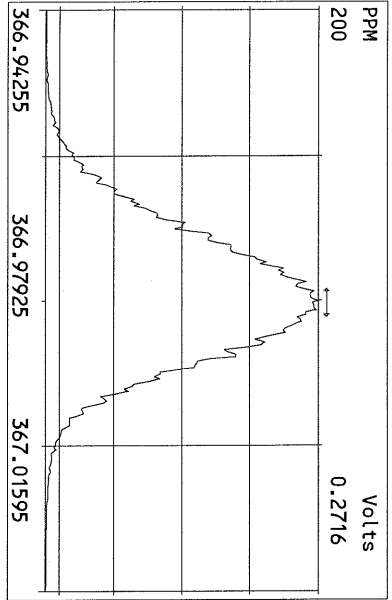
Data Backed Up: _____

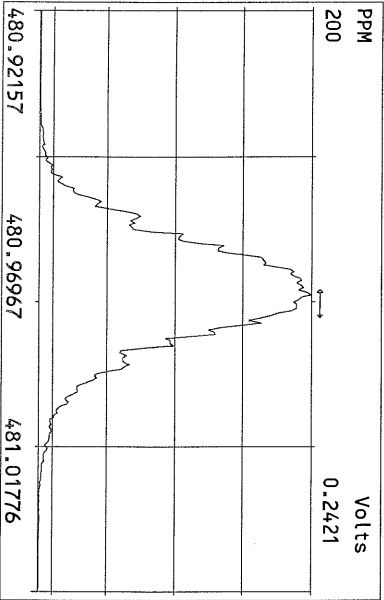
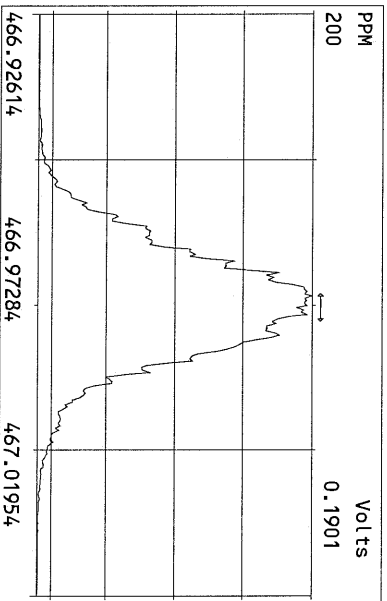
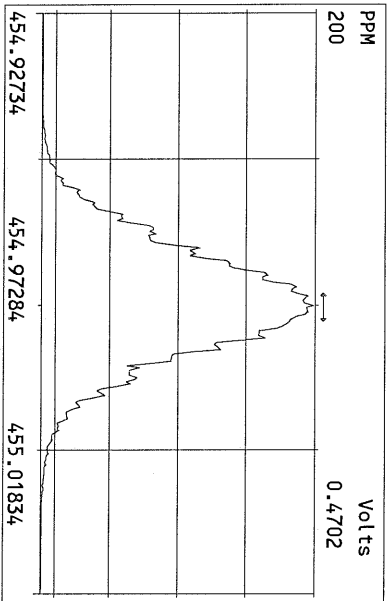
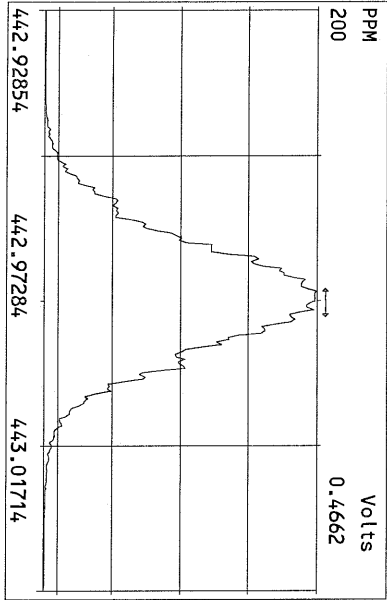
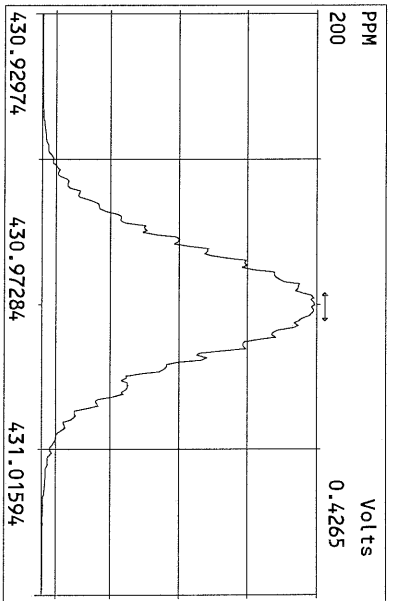
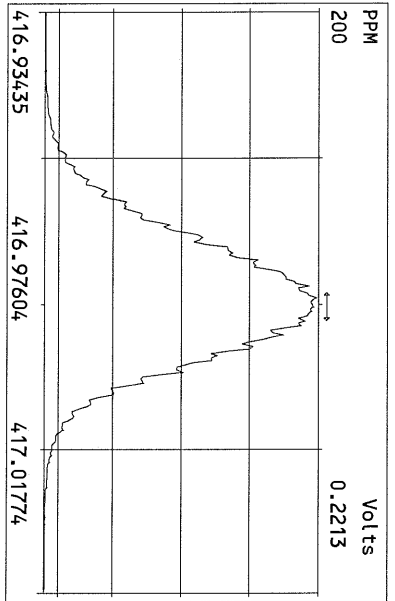
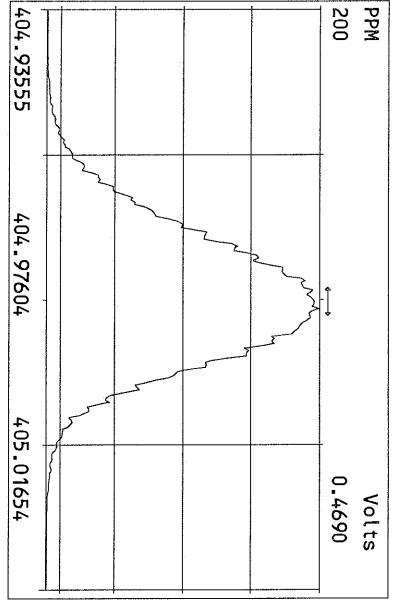
Date: _____

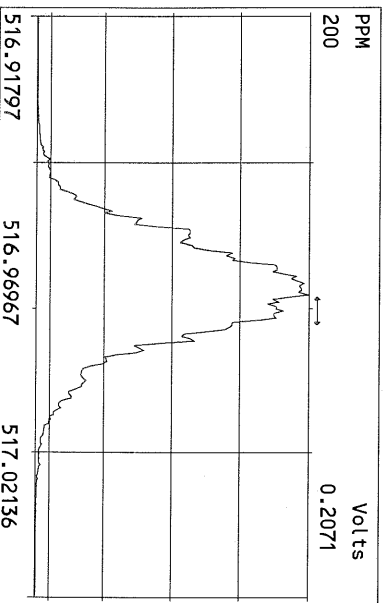
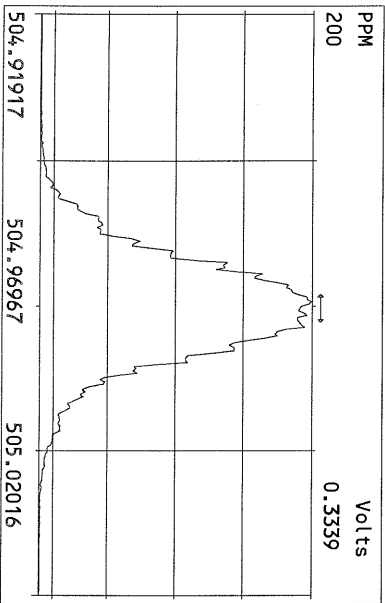
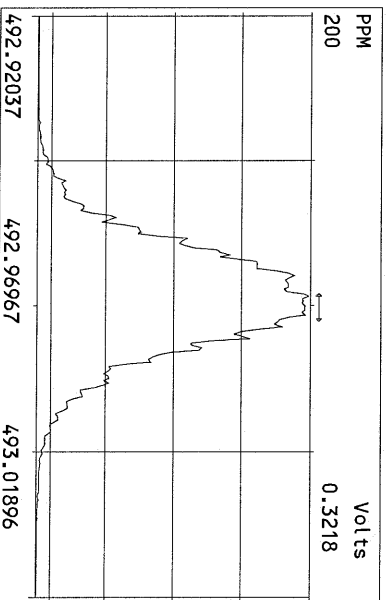
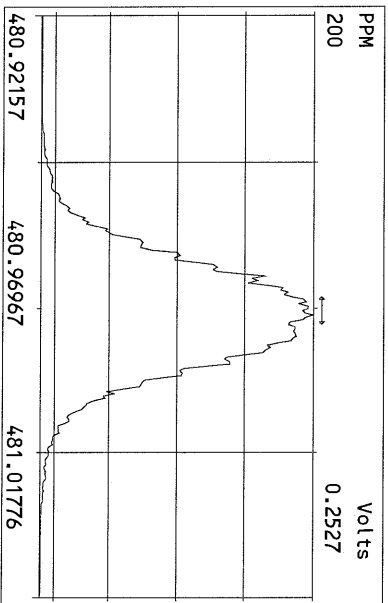
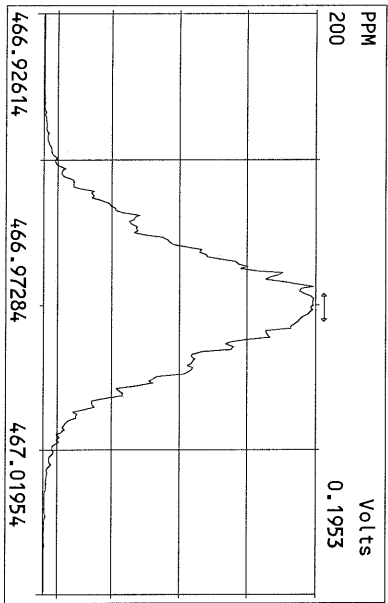
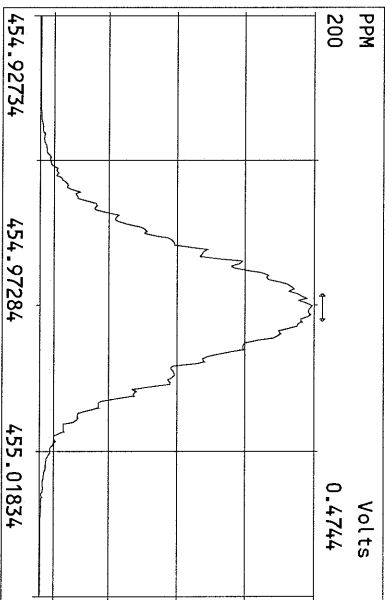
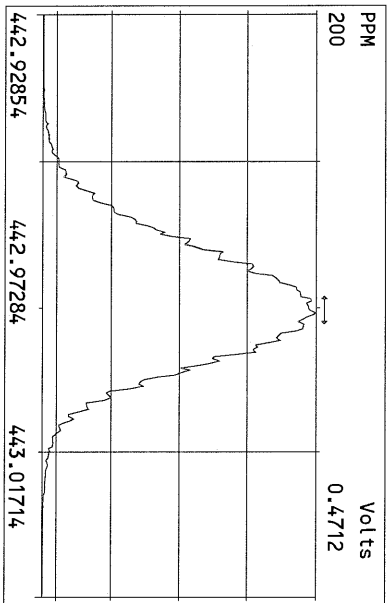
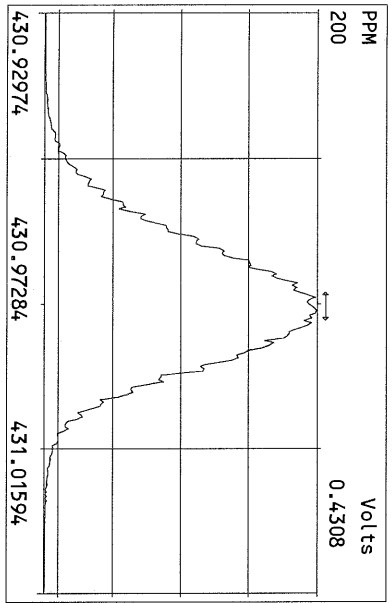
Peak Locate Examination: 18-MAY-2011:12:14 File: 18MAY11Z
Experiment: PCDD Function: 1 Reference: PFK



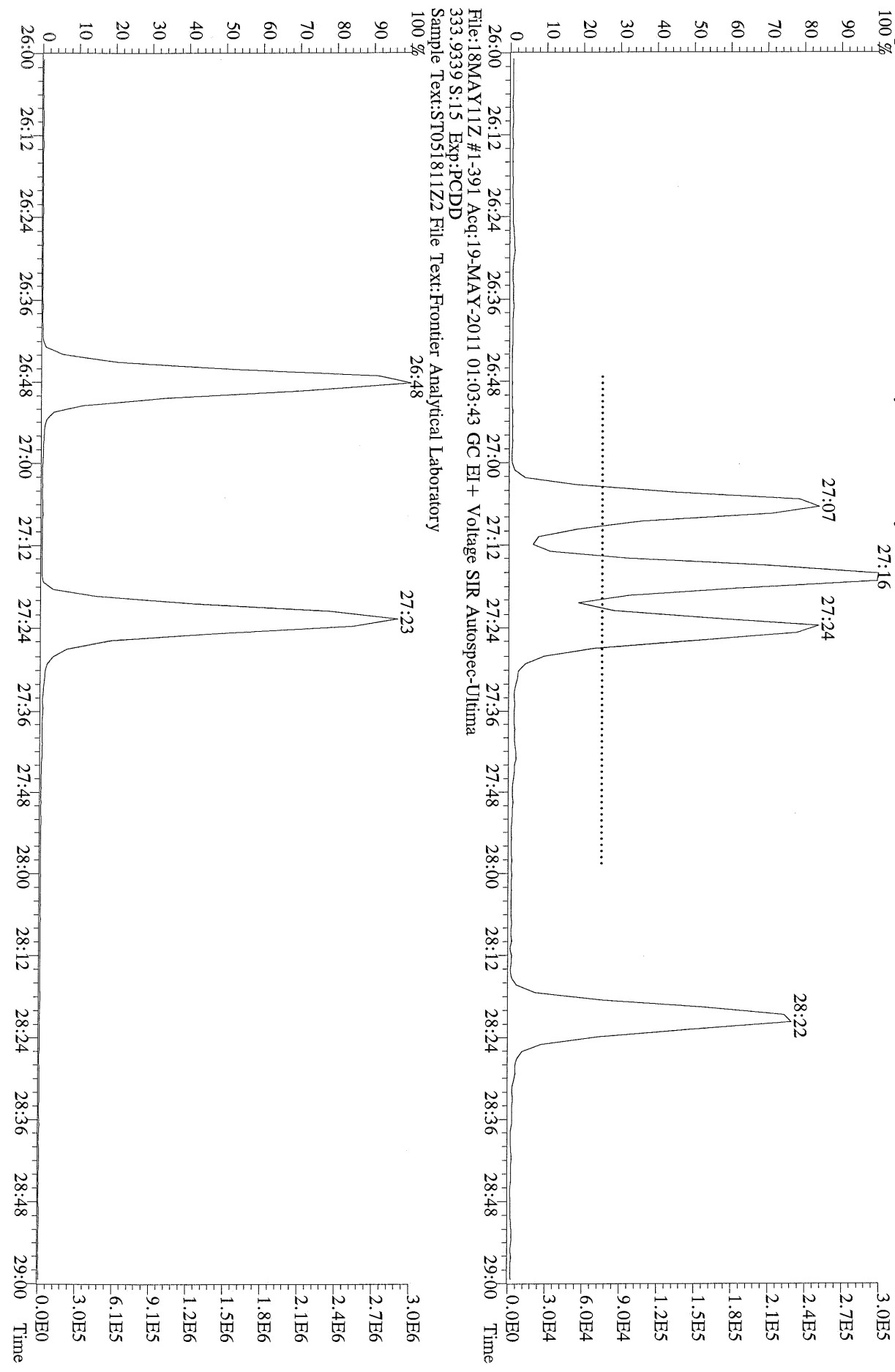




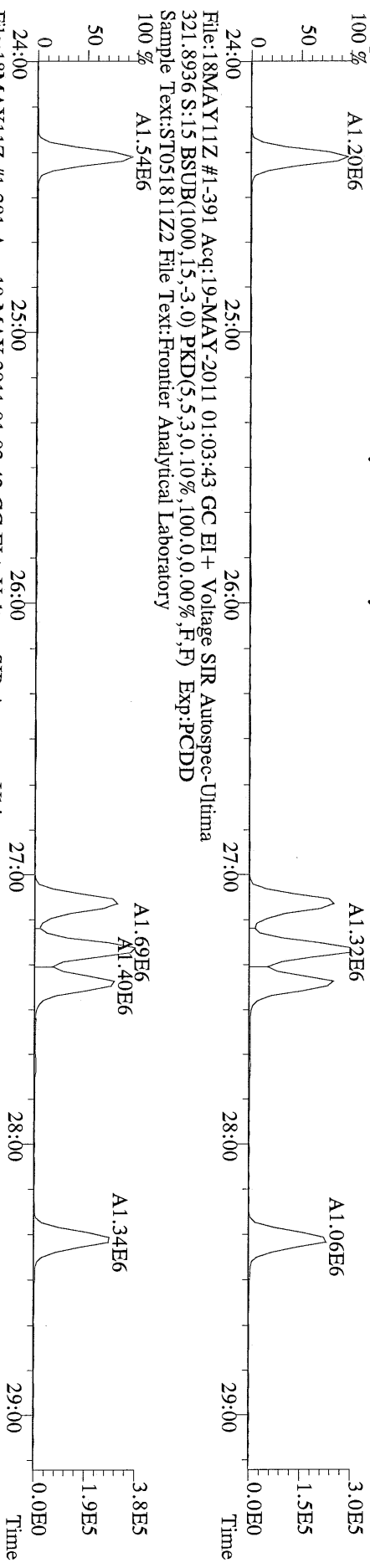




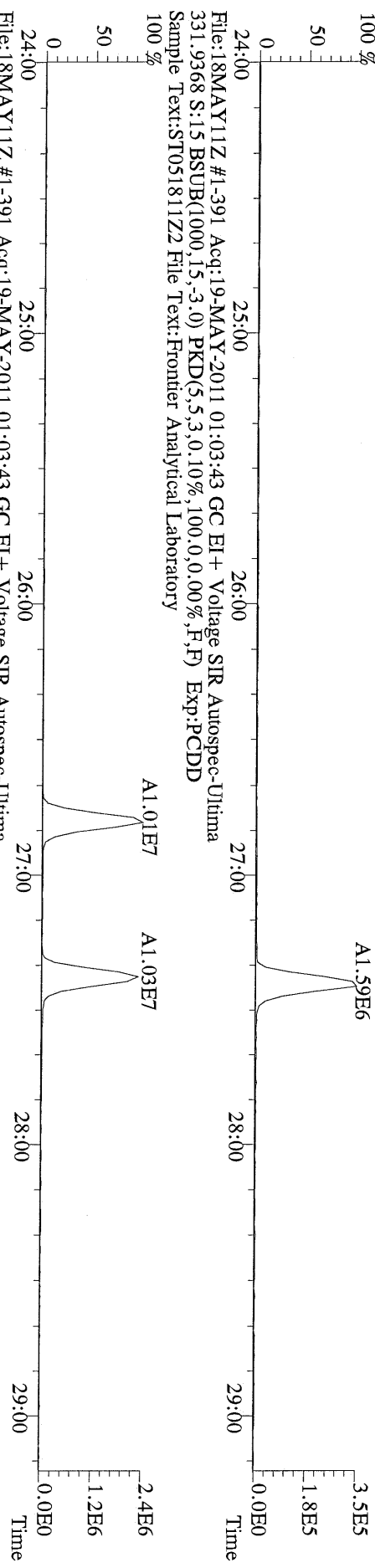
File:18MAY11Z #1-391 Acq:19-MAY-2011 01:03:43 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:15 Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



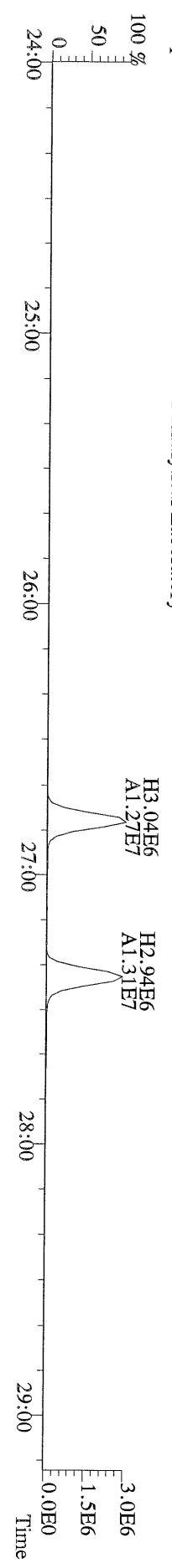
File:18MAY11Z #1-391 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:1.5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



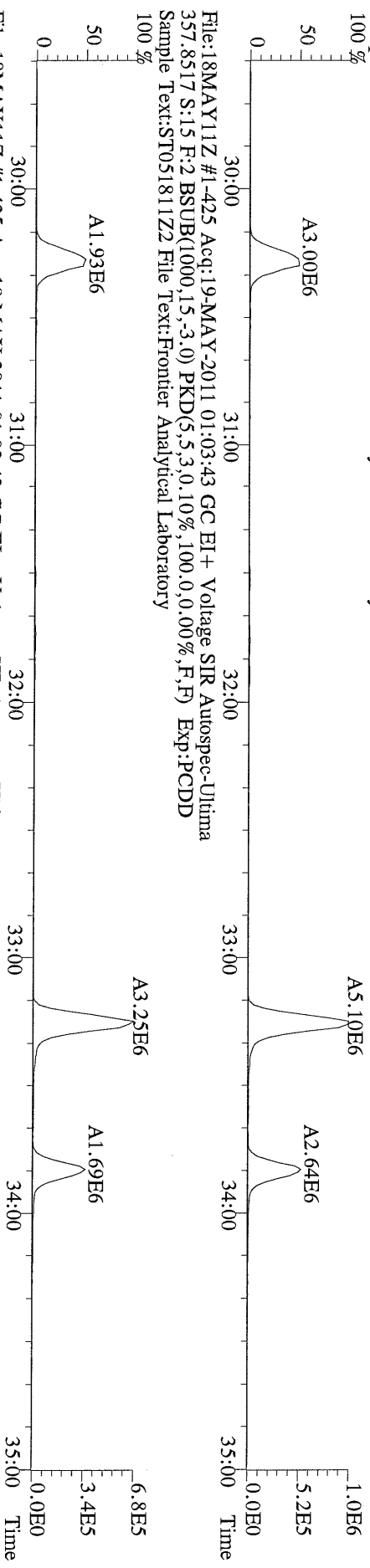
File:18MAY11Z #1-391 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:1.5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



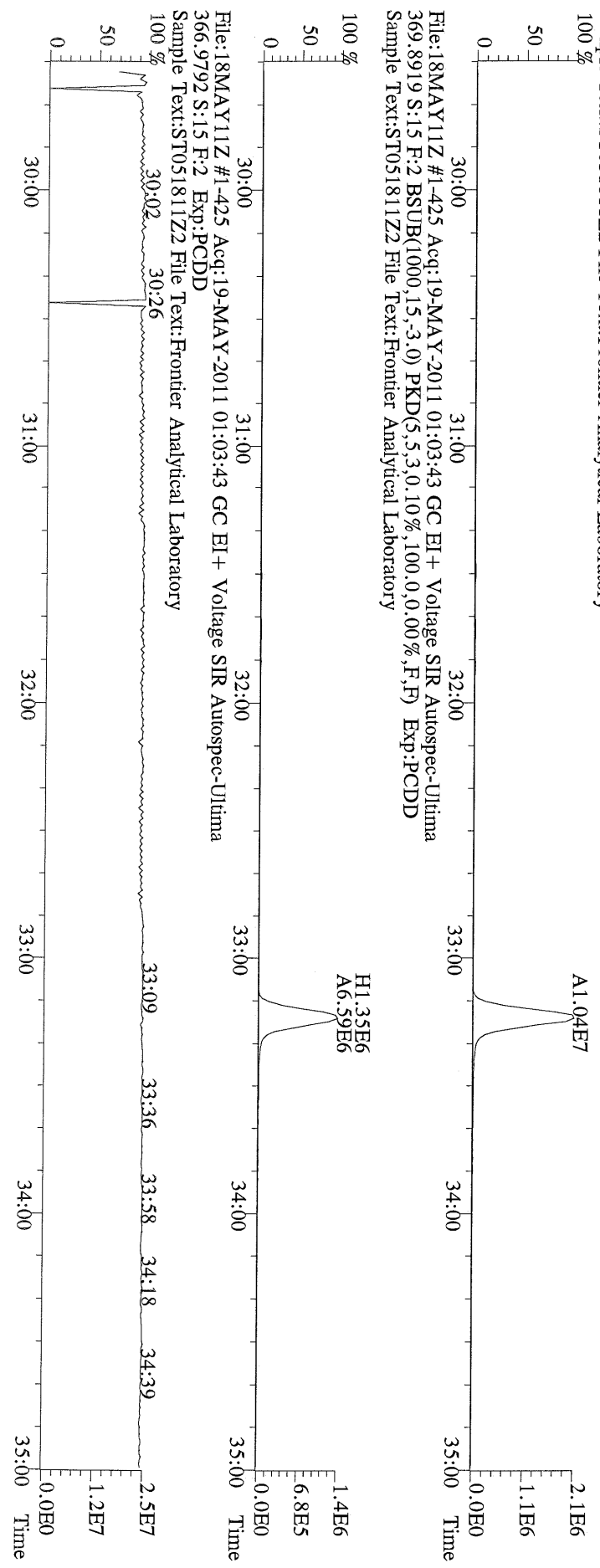
File:18MAY11Z #1-391 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:1.5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-425 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:15 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



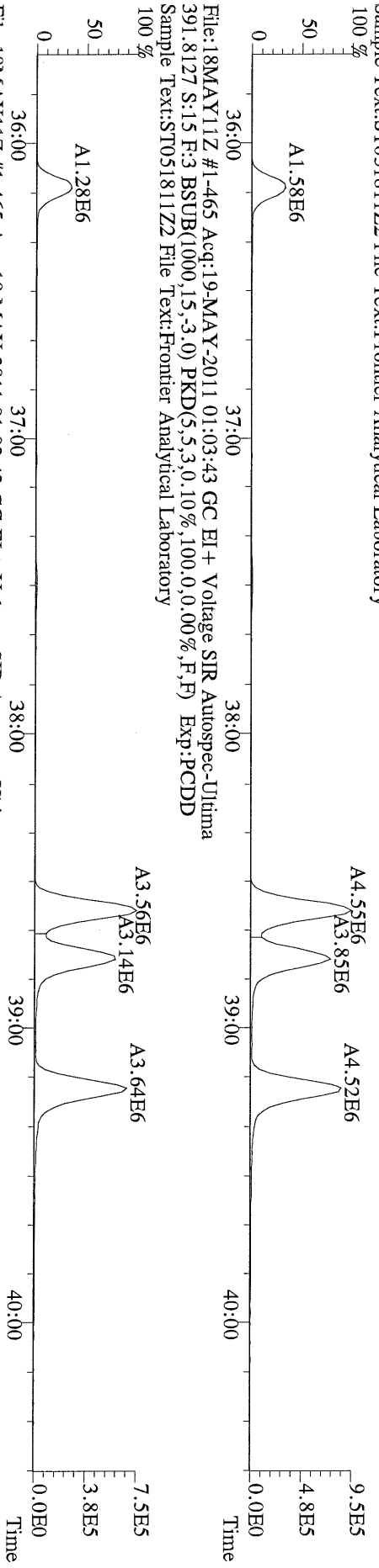
File:18MAY11Z #1-425 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:15 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



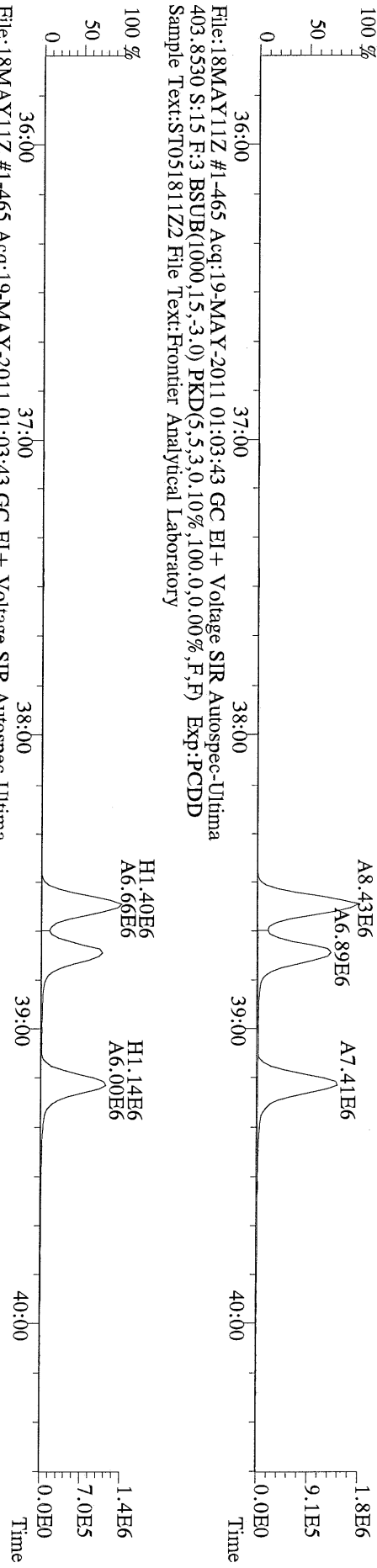
File:18MAY11Z #1-425 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:15 F:2 Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



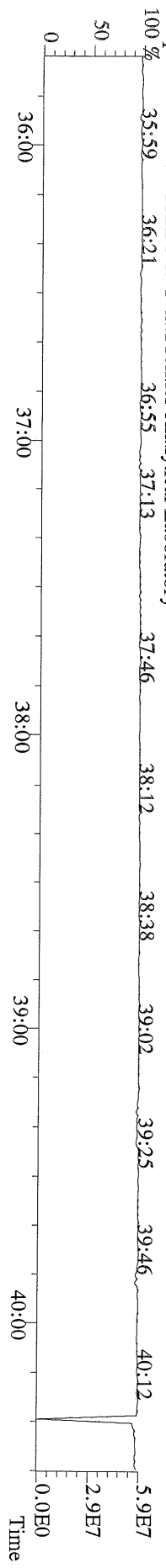
File:18MAY11Z #1-465 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Utima
389.8156 S:15 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



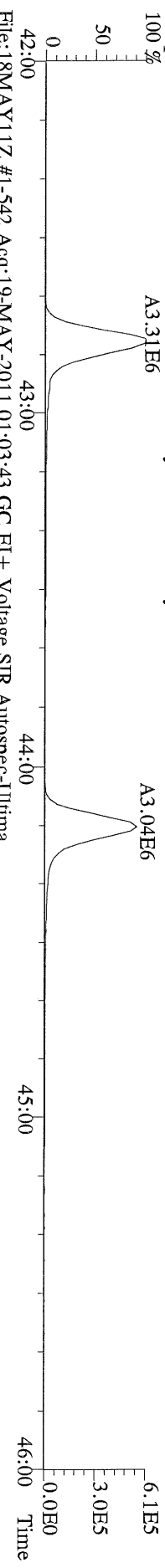
File:18MAY11Z #1-465 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Utima
401.8559 S:15 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



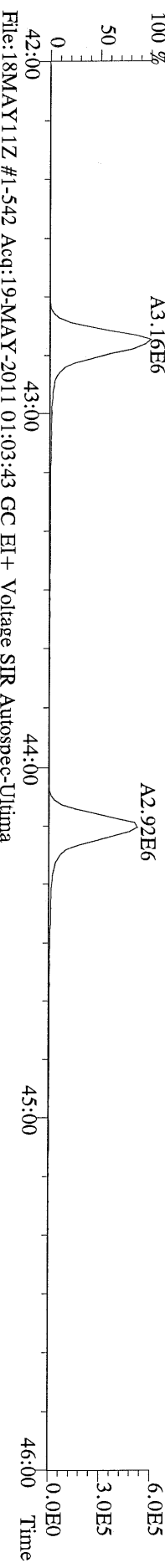
File:18MAY11Z #1-465 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Utima
380.9760 S:15 F:3 Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



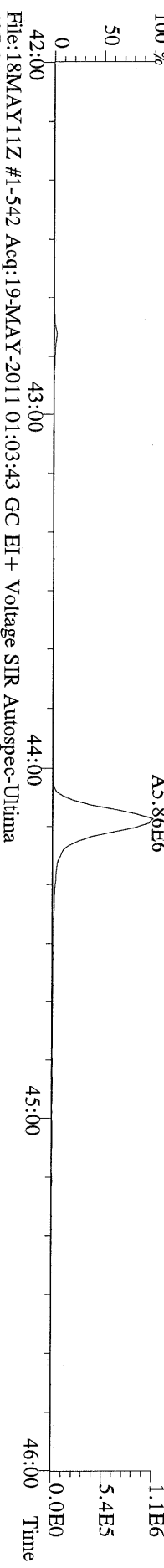
File:18MAY11Z #1-542 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:15 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



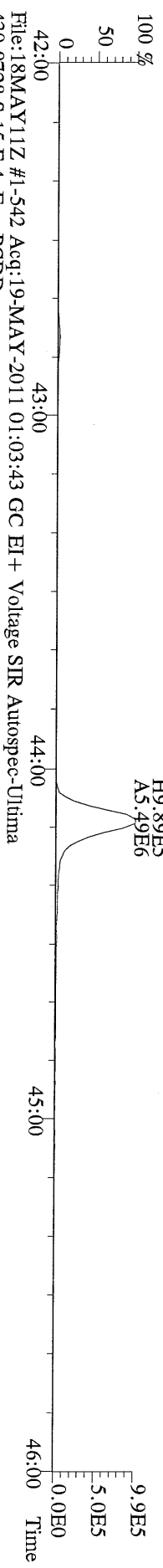
File:18MAY11Z #1-542 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:15 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



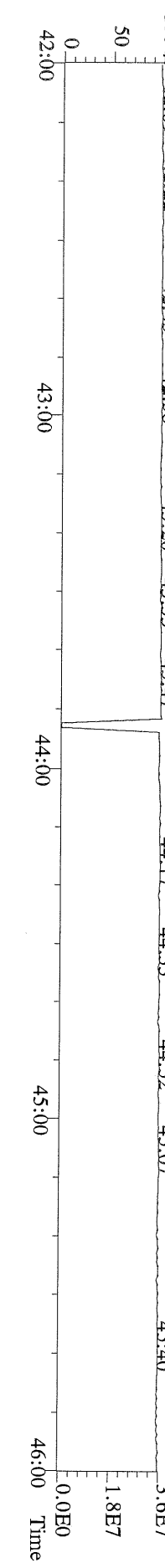
File:18MAY11Z #1-542 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:15 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



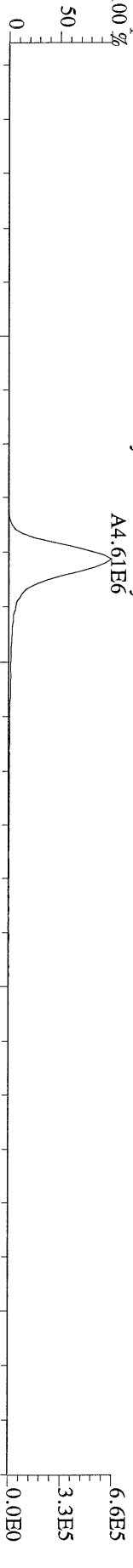
File:18MAY11Z #1-542 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:15 F:4 Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



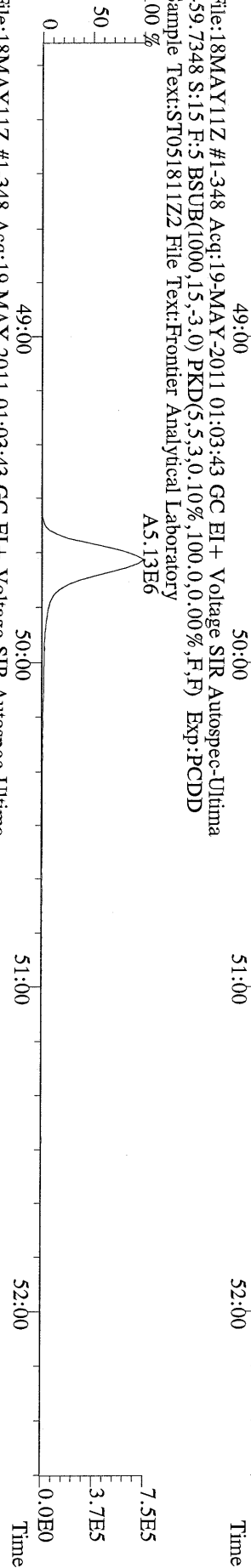
File:18MAY11Z #1-542 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:15 F:4 Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



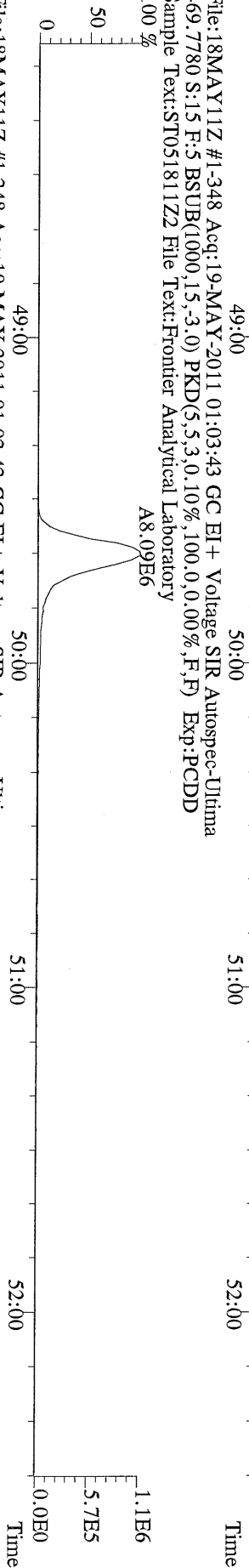
File:18MAY11Z #1-348 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



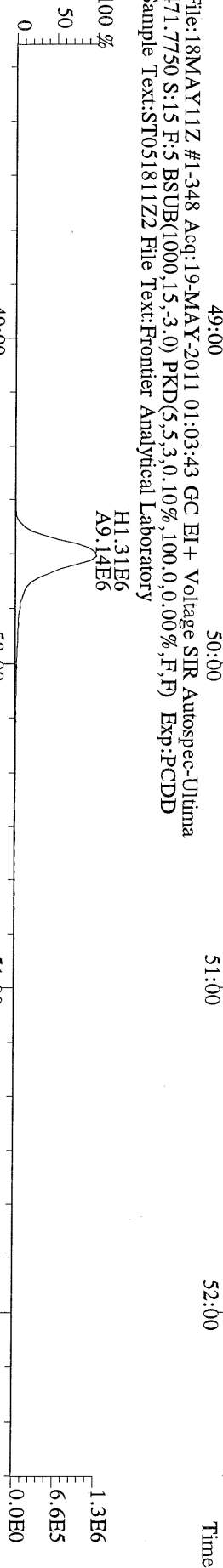
File:18MAY11Z #1-348 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



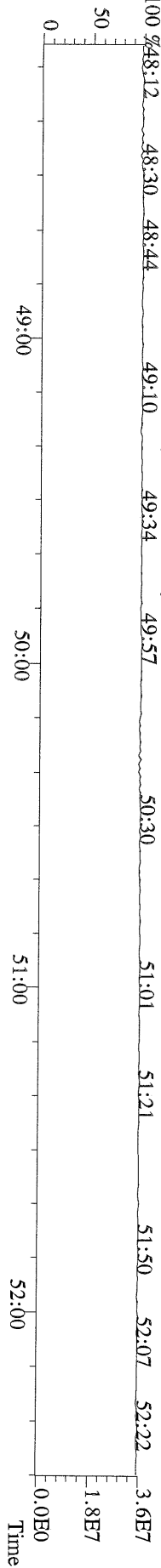
File:18MAY11Z #1-348 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



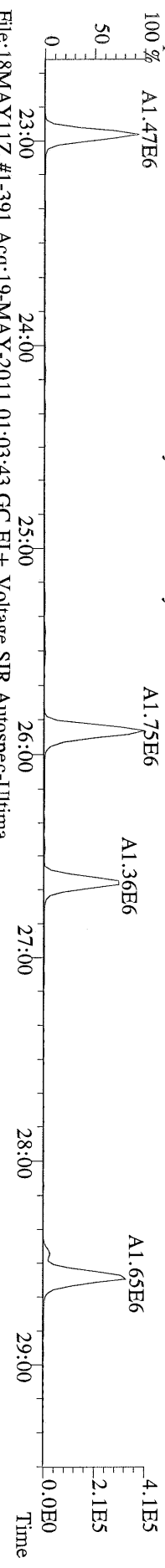
File:18MAY11Z #1-348 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



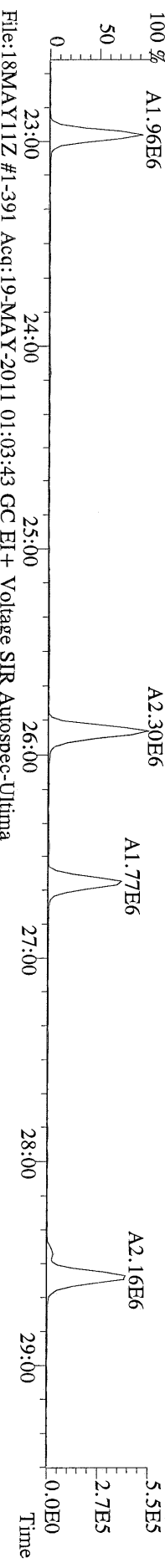
File:18MAY11Z #1-348 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:15 F:5 Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



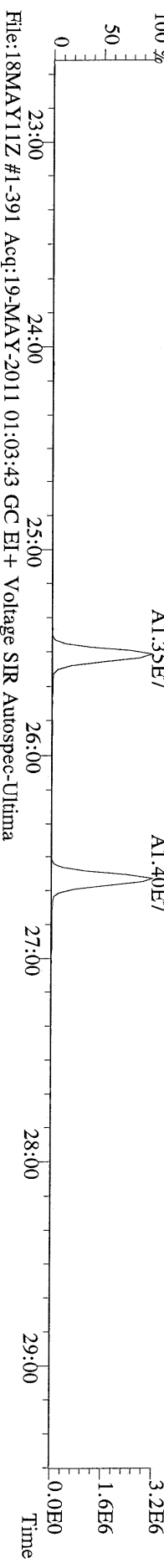
File:18MAY11Z #-1-391 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:15 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



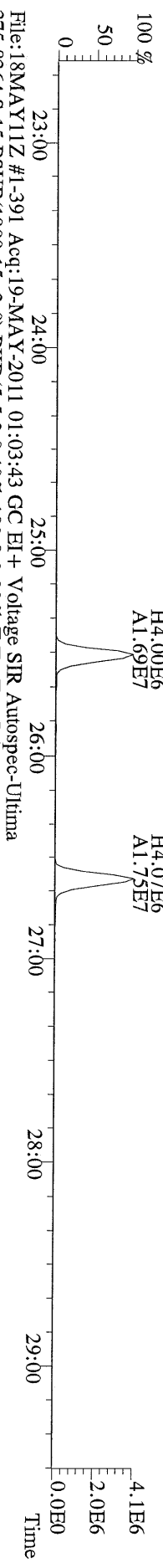
File:18MAY11Z #-1-391 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:15 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



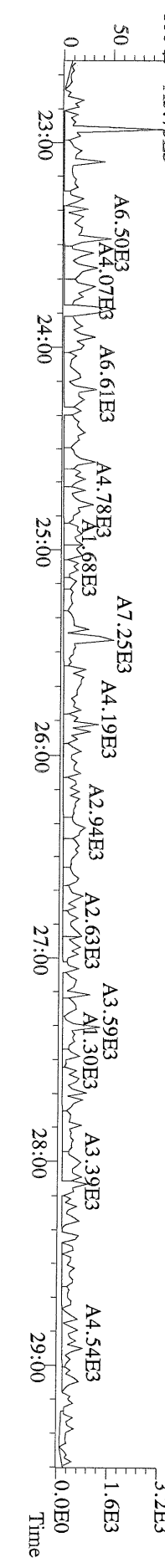
File:18MAY11Z #-1-391 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:15 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



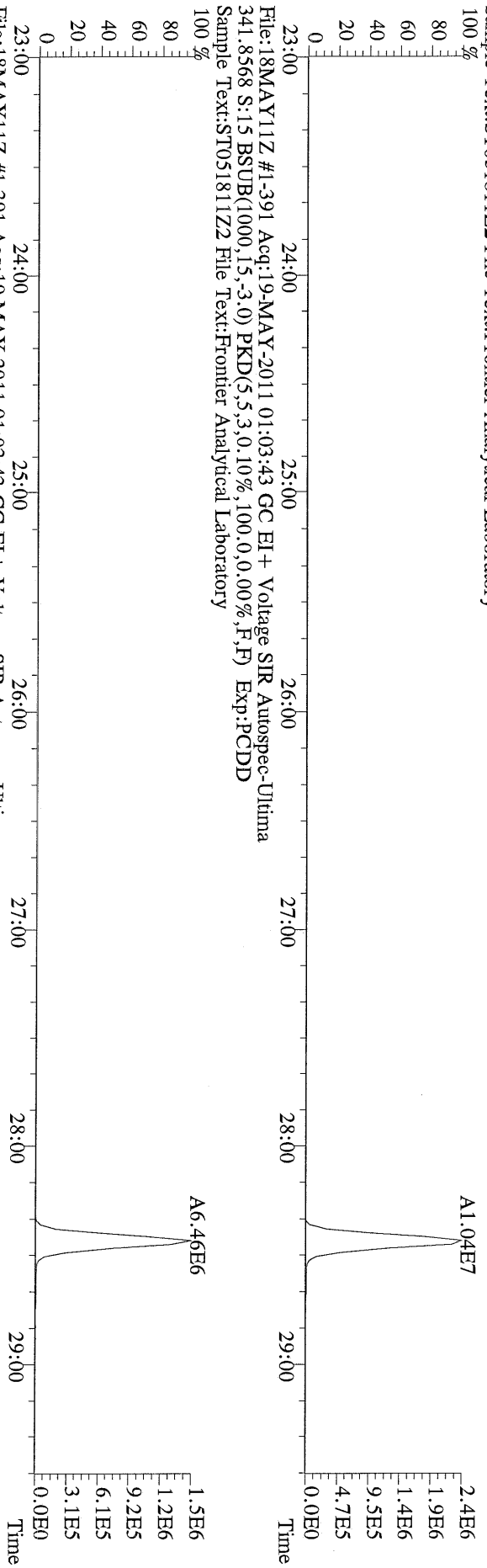
File:18MAY11Z #-1-391 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:15 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



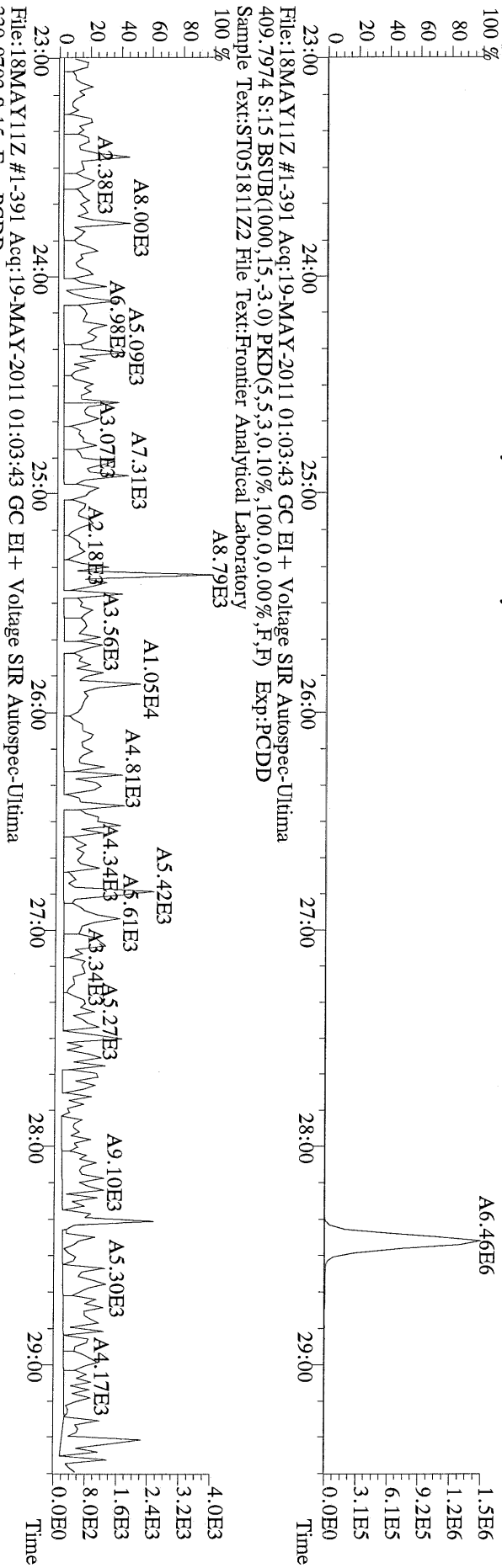
File:18MAY11Z #-1-391 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:15 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



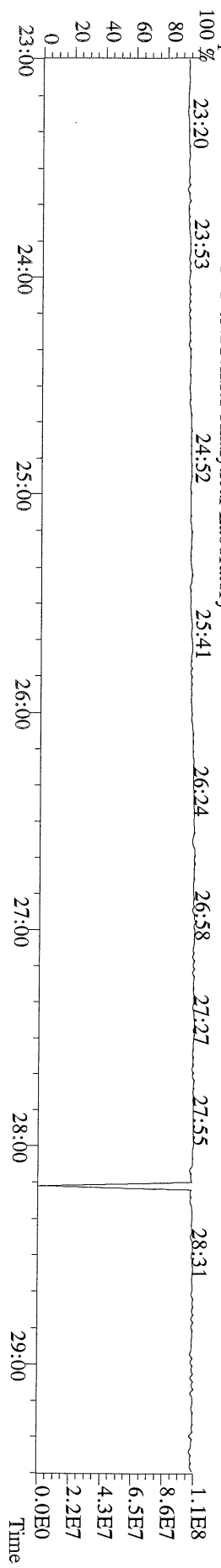
File:18MAY11Z #1-391 Acq:19-MAY-2011 01:03:43 GC EI + Voltage SIR Autospec-Ultima
 339.8597 S:15 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



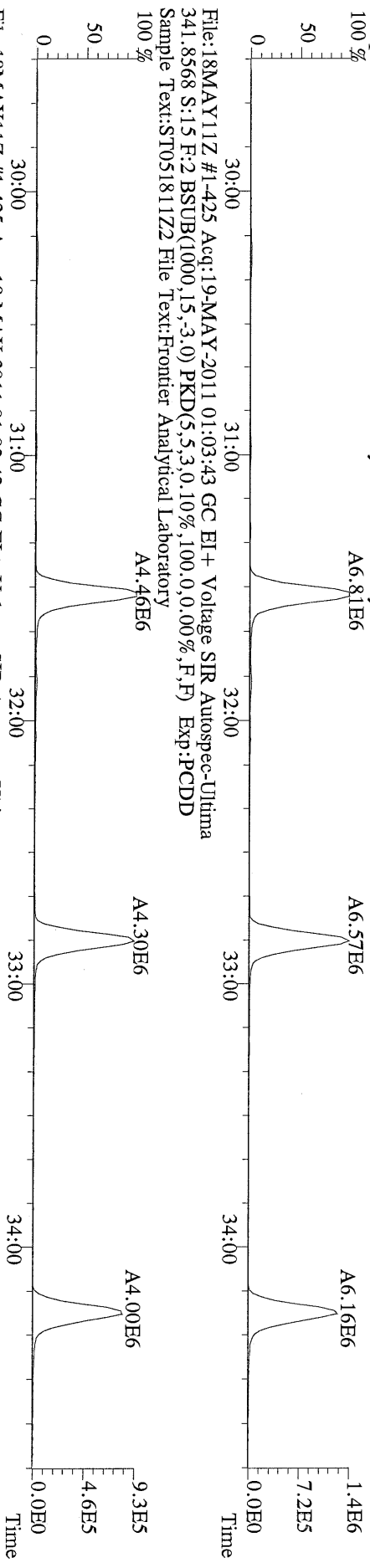
File:18MAY11Z #1-391 Acq:19-MAY-2011 01:03:43 GC EI + Voltage SIR Autospec-Ultima
 341.8568 S:15 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



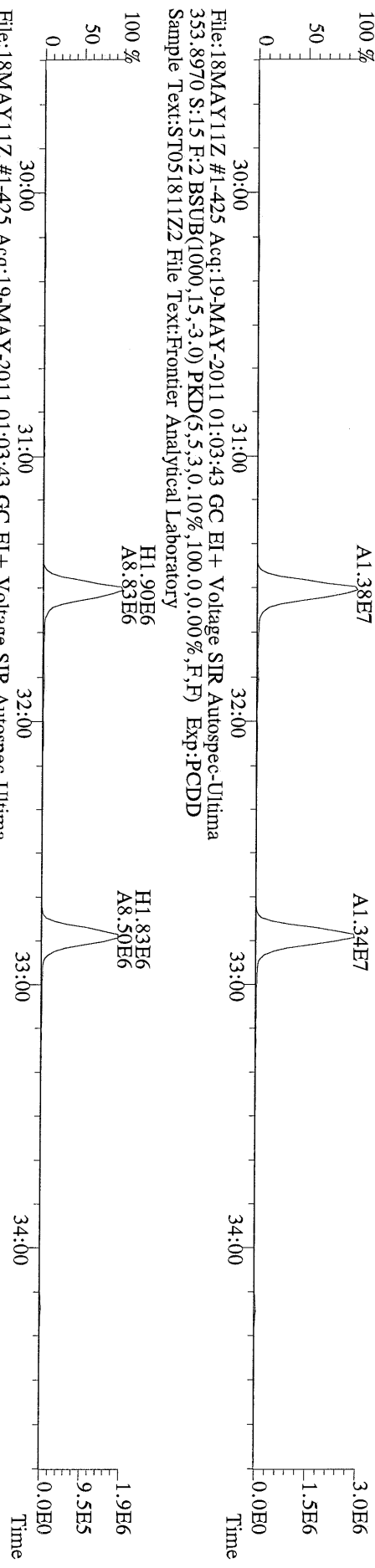
File:18MAY11Z #1-391 Acq:19-MAY-2011 01:03:43 GC EI + Voltage SIR Autospec-Ultima
 330.9792 S:15 Exp:PCDD
 Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



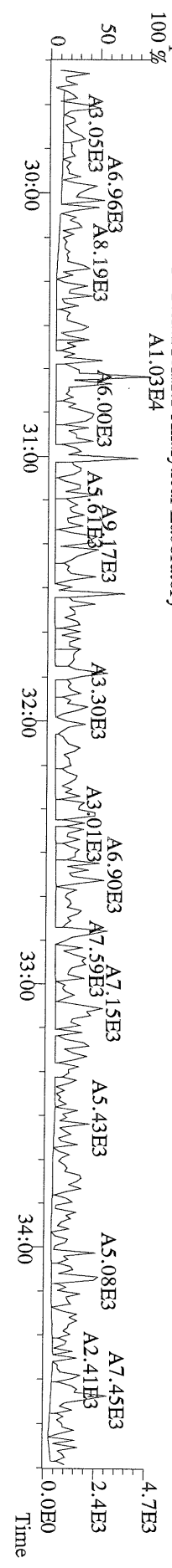
File: 18MAY11Z #1-425 Acq: 19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:15 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



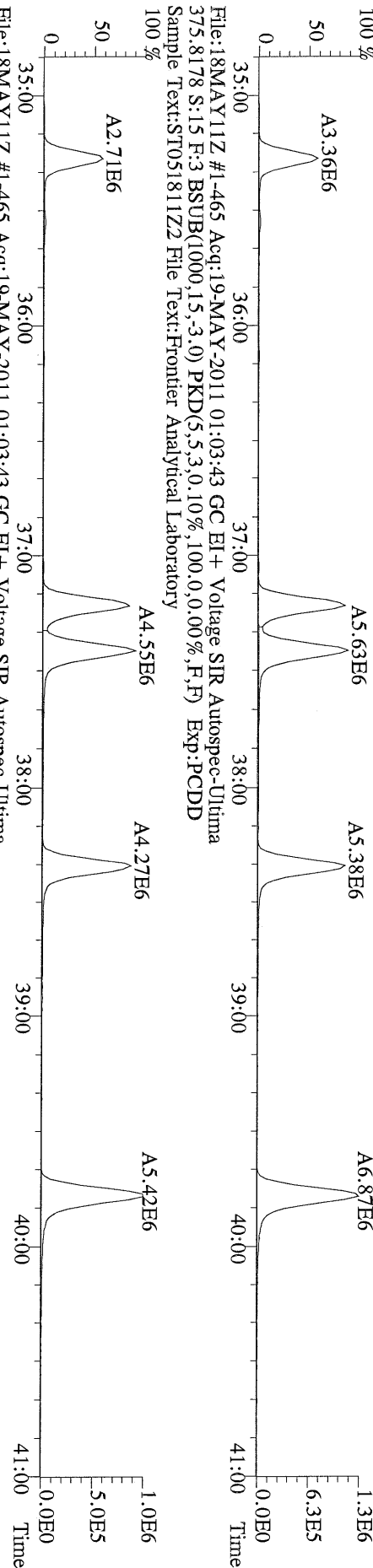
File: 18MAY11Z #1-425 Acq: 19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:15 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



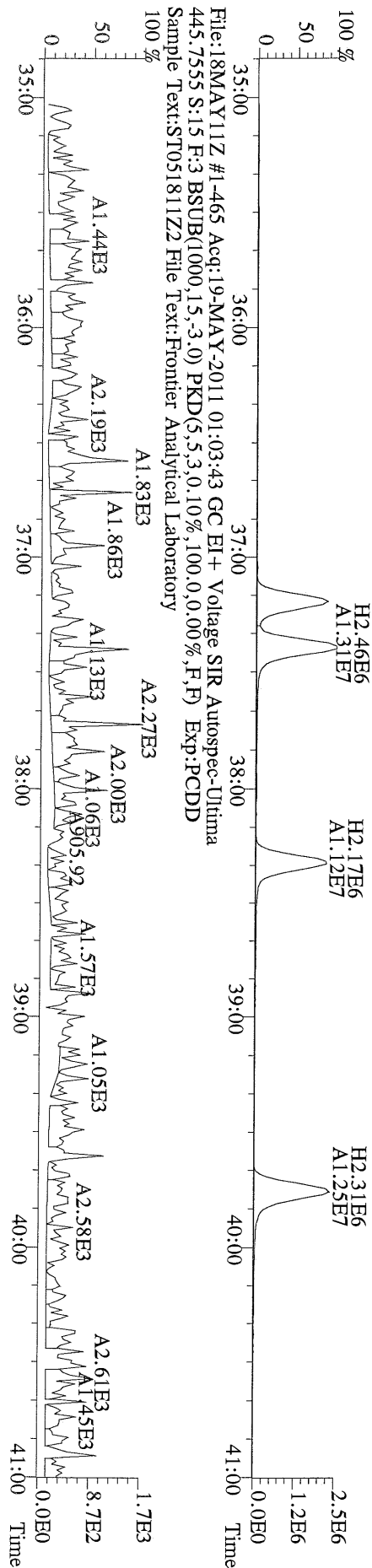
File: 18MAY11Z #1-425 Acq: 19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:15 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



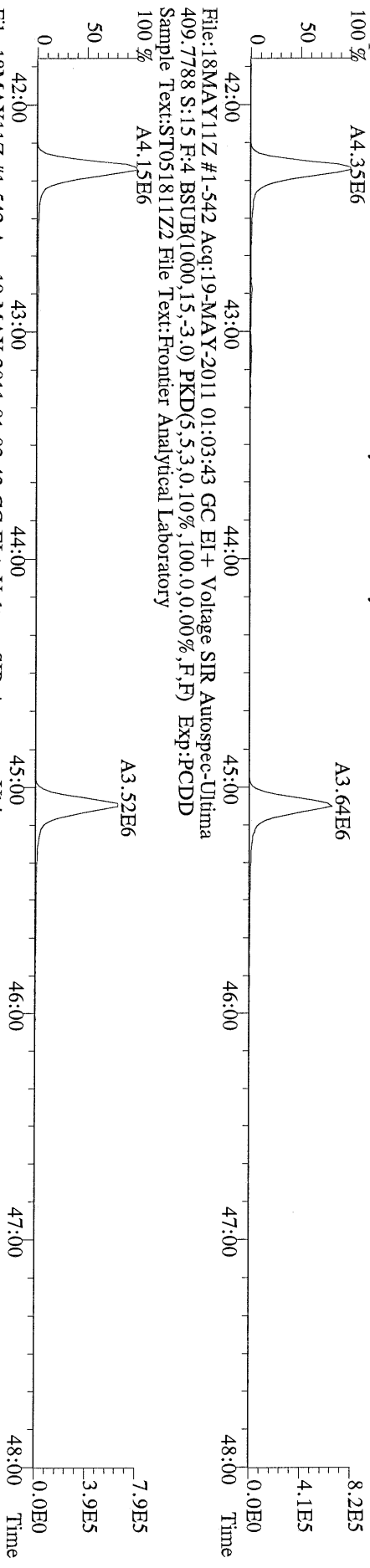
File:18MAY11Z #1-465 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Utima
373.8207 S:15 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp.:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



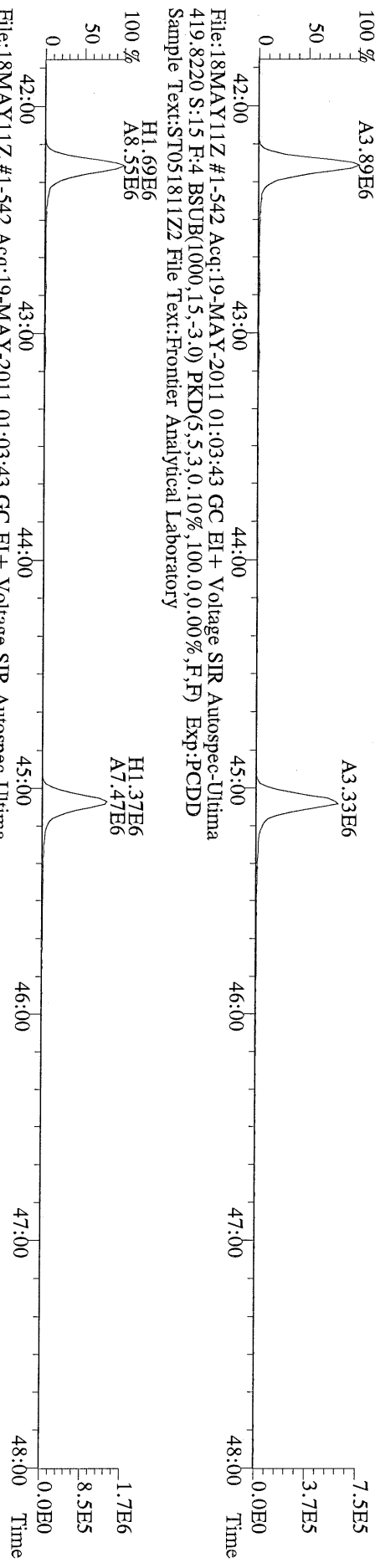
File:18MAY11Z #1-465 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Utima
383.8639 S:15 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp.:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



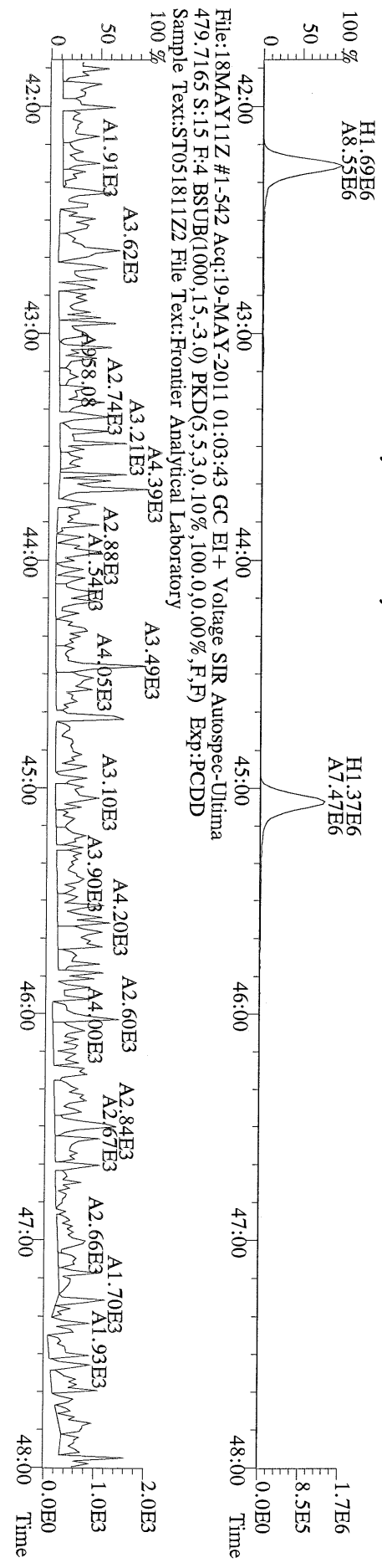
File: 18MAY11Z #1-542 Acq: 19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultime
407.7818 S:15 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



File: 18MAY11Z #1-542 Acq: 19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultime
417.8253 S:15 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory

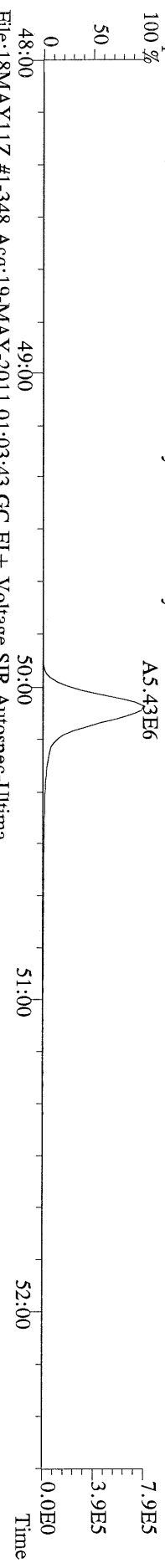


File: 18MAY11Z #1-542 Acq: 19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultime
419.8220 S:15 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory

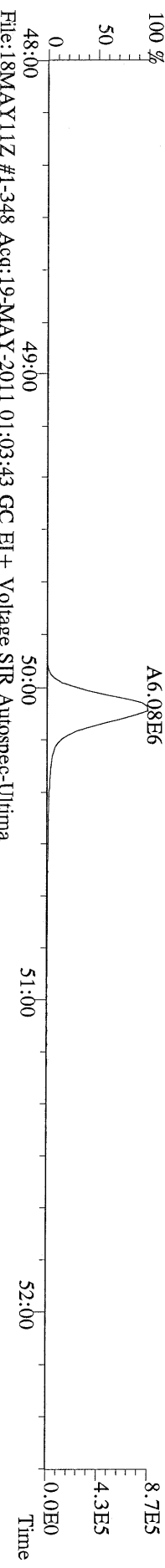


File: 18MAY11Z #1-542 Acq: 19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultime
479.7165 S:15 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory

File:18MAY11Z #1-348 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



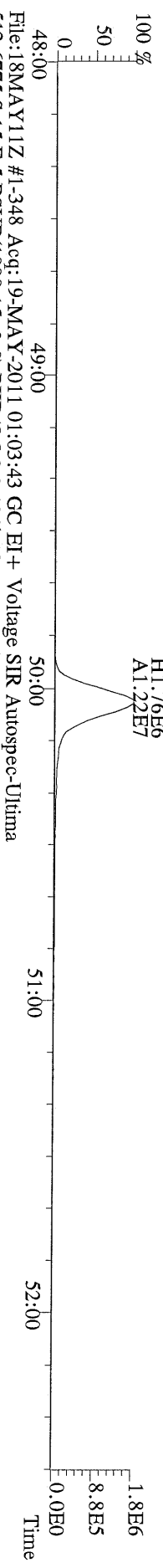
File:18MAY11Z #1-348 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory

