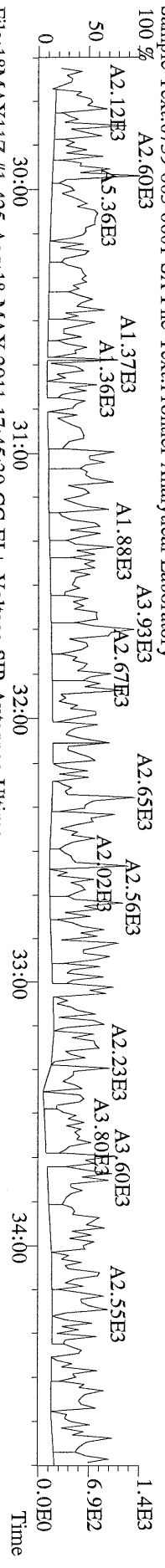
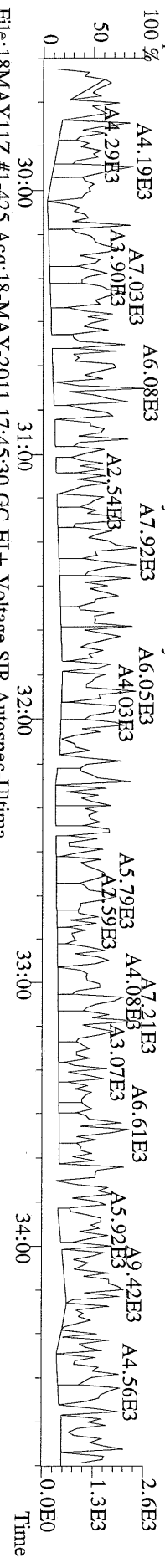


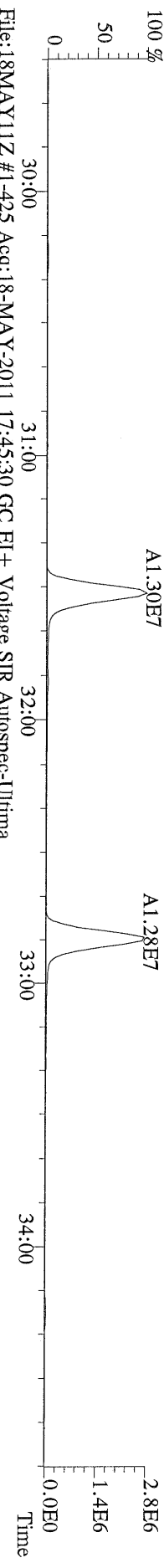
File:18MAY11Z #1-425 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:7 F:2 BSUB(1000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



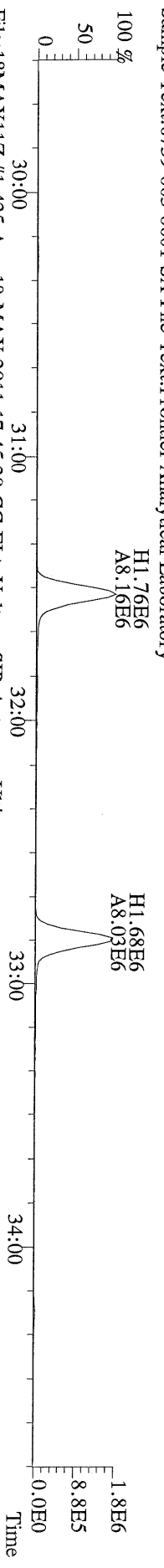
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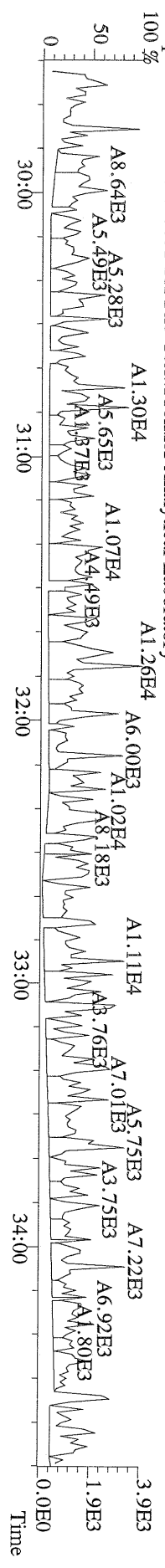
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 351.9000 S:7 F:2 BSUB(1000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



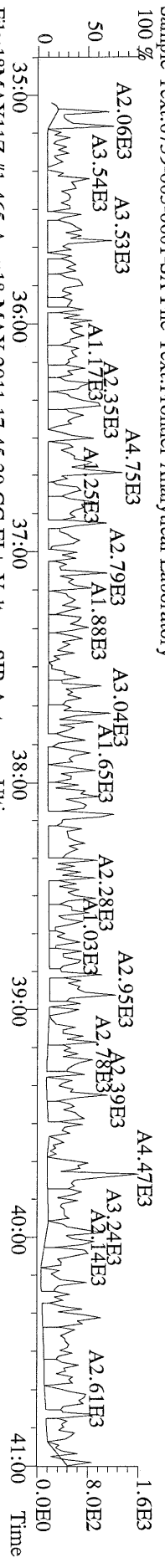
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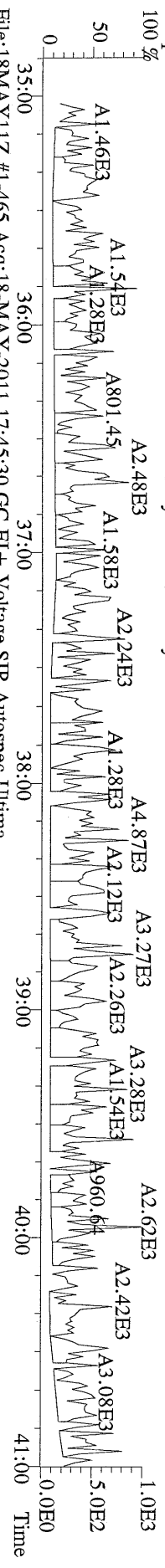
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 409.7974 S:7 F:2 BSUB(1000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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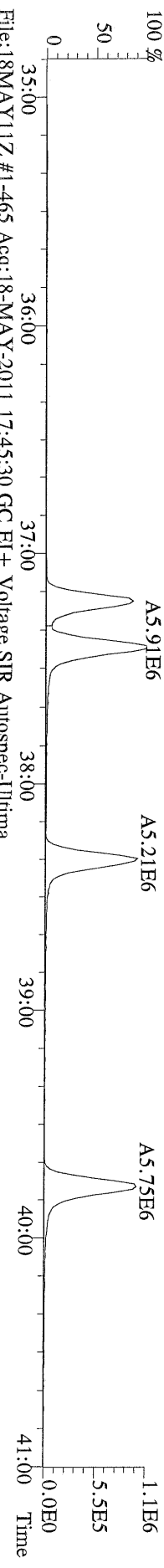
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 373.8207 S:7 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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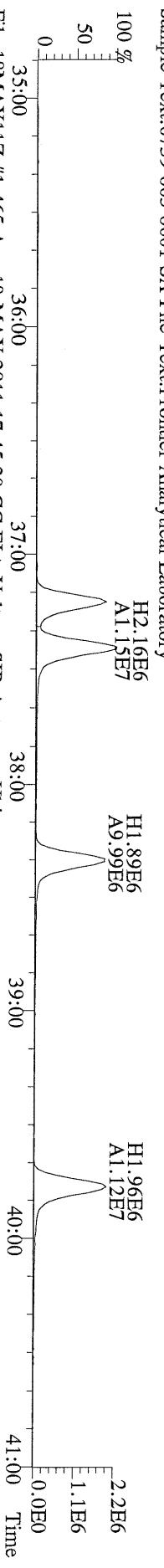
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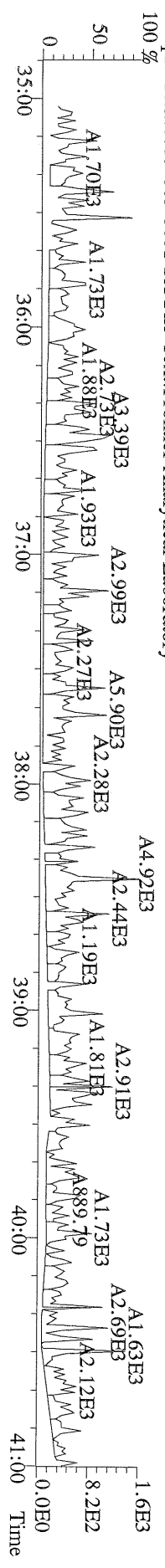
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 383.8639 S:7 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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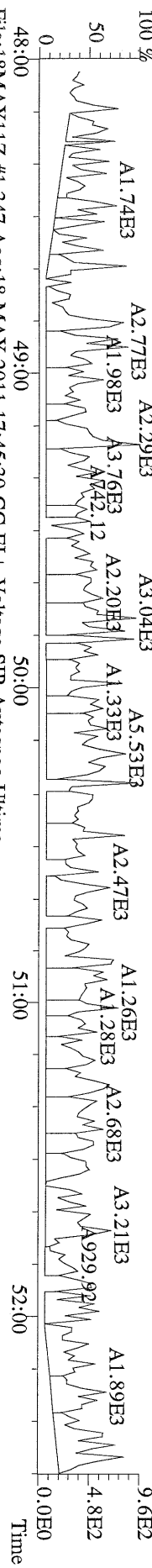
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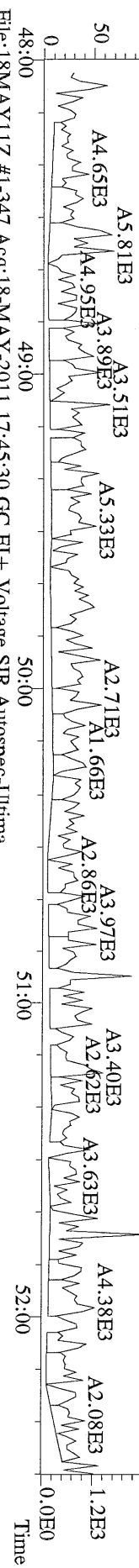
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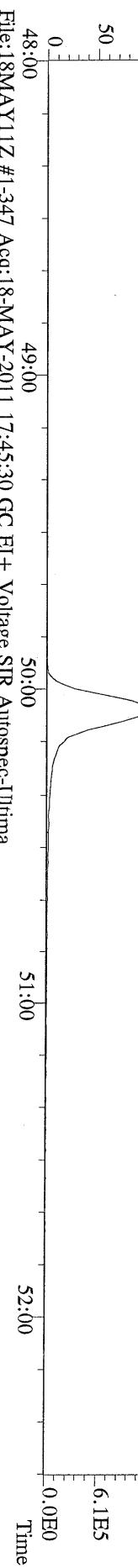
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 Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



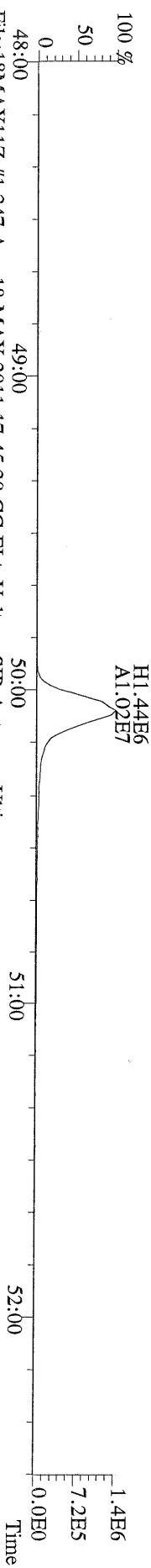
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 Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



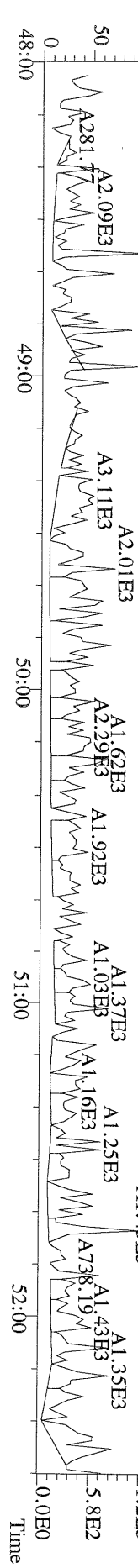
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 Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-347 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
 455.7801 S:7 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-347 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
 513.6775 S:7 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 6739-004-0001-SA
Client ID: MW06-042611

Filename: 19MAY11Z
GC Column: DB5

Amount: 1.035
NATO 1989 Tox: 0.00665

Sam:2 Acquired: 19-MAY-11 10:05:12
Ical: PCDDFAL4-5-17-11
ConCal: ST05191121
EndCal: ST05191122

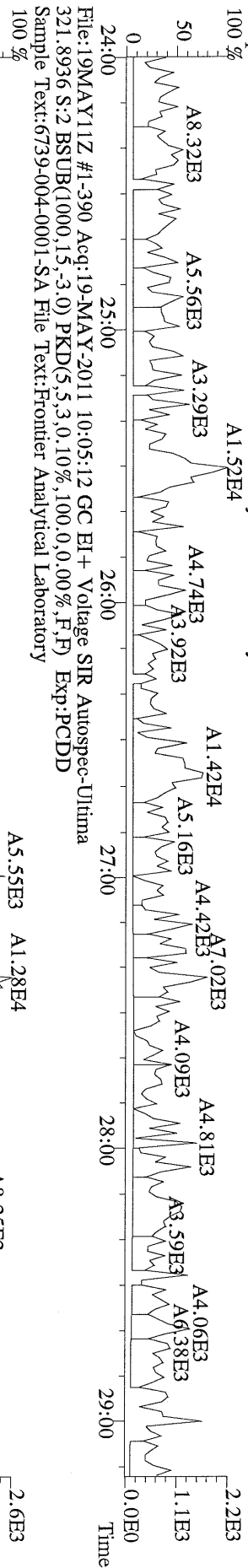
Results: WHO 1998 Tox: 0.000665 WHO 2005 Tox: 0.00200

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL		
2,3,7,8-TCDD	*	* n	NotFnd	1.15	*		2.50	876	1090	0.979	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	900	496	1.07	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.09	*		2.50	728	856	1.18	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.08	*		2.50	728	856	1.48	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.12	*		2.50	728	856	1.28	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.03	*		2.50	710	628	1.62	
OCDD	6.81e+04	0.82 y	49:41	1.21	6.65	J	2.50	-	-	*	
Rec											
2,3,7,8-TCDF	*	* n	NotFnd	1.09	*		2.50	748	1640	0.827	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	786	1180	1.03	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	786	1180	1.09	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.18	*		2.50	644	544	0.773	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.03	*		2.50	644	544	0.751	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.17	*		2.50	644	544	0.766	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.27	*		2.50	644	544	0.655	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.36	*		2.50	476	536	0.749	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.35	*		2.50	476	536	0.948	
OCDF	*	* n	NotFnd	0.97	*		2.50	556	816	2.06	
13C-2,3,7,8-TCDD	3.65e+07	0.80 y	27:22	0.99	2100					109	
13C-1,2,3,7,8-PeCDD	2.96e+07	1.62 y	33:14	0.79	2130					110	
13C-1,2,3,4,7,8-HxCDD	2.89e+07	1.28 y	38:34	1.03	2050					106	
13C-1,2,3,6,7,8-HxCDD	2.46e+07	1.27 y	38:44	0.96	1880					97.1	
13C-1,2,3,4,6,7,8-HpCDD	2.19e+07	1.07 y	44:08	0.75	2140					111	
13C-OCDD	3.28e+07	0.92 y	49:39	0.50	4770					123	
13C-2,3,7,8-TCDF	5.51e+07	0.80 y	26:36	0.98	2090					108	
13C-1,2,3,7,8-PeCDF	4.40e+07	1.55 y	31:30	0.78	2110					109	
13C-2,3,4,7,8-PeCDF	4.20e+07	1.54 y	32:48	0.75	2080					107	
13C-1,2,3,4,7,8-HxCDF	3.13e+07	0.52 y	37:11	1.05	2170					113	
13C-1,2,3,6,7,8-HxCDF	3.87e+07	0.53 y	37:23	1.40	2020					105	
13C-2,3,4,6,7,8-HxCDF	3.32e+07	0.53 y	38:19	1.16	2090					108	
13C-1,2,3,7,8,9-HxCDF	3.80e+07	0.52 y	39:45	1.30	2140					111	
13C-1,2,3,4,6,7,8-HpCDF	2.53e+07	0.45 y	42:15	0.83	2240					116	
13C-1,2,3,4,7,8,9-HpCDF	2.18e+07	0.45 y	45:03	0.69	2290					119	
13C-OCDF	4.73e+07	0.89 y	50:02	0.77	4490					116	
37Cl-2,3,7,8-TCDD	1.00e+07		27:23	0.71	802					104	
13C-1,2,3,4-TCDD	3.40e+07	0.81 y	26:48	-	61.6						
13C-1,2,3,4-TCDF	5.19e+07	0.79 y	25:30	-	66.9						
13C-1,2,3,7,8,9-HxCDD	2.65e+07	1.25 y	39:11	-	66.1						
Total Tetra-Dioxins	*		NotFnd	1.15	*		2.50	876	1090	0.979	#Hom
Total Penta-Dioxins	*		NotFnd	1.02	*		2.50	900	496	1.07	0
Total Hexa-Dioxins	*		NotFnd	1.10	*		2.50	728	856	1.48	0
Total Hepta-Dioxins	*		NotFnd	1.03	*		2.50	710	628	1.62	0
Total Tetra-Furans	*		NotFnd	1.09	*		2.50	748	1640	0.827	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.96	*		2.50	786	1180	1.09	PeCDF 0
Total Penta-Furans	*		NotFnd	0.96	*		2.50	786	1180	1.09	0.00 0
Total Hexa-Furans	*		NotFnd	1.16	*		2.50	644	544	0.773	0
Total Hepta-Furans	*		NotFnd	1.36	*		2.50	476	536	0.948	0

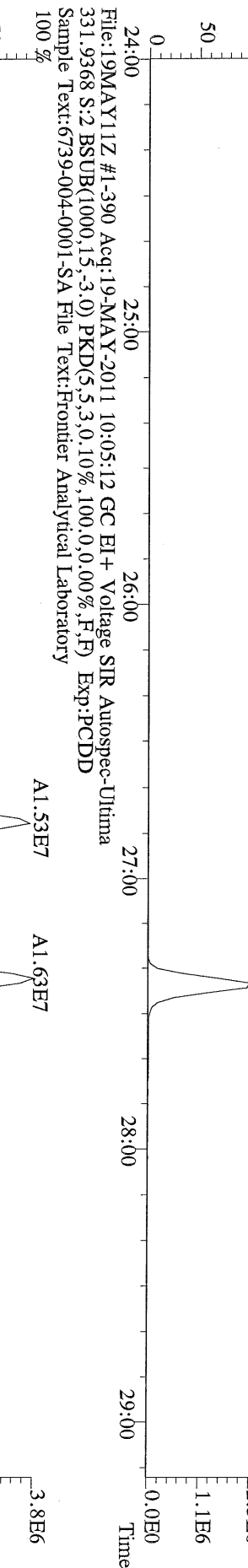
Analyst: J

Date: 5/19/11

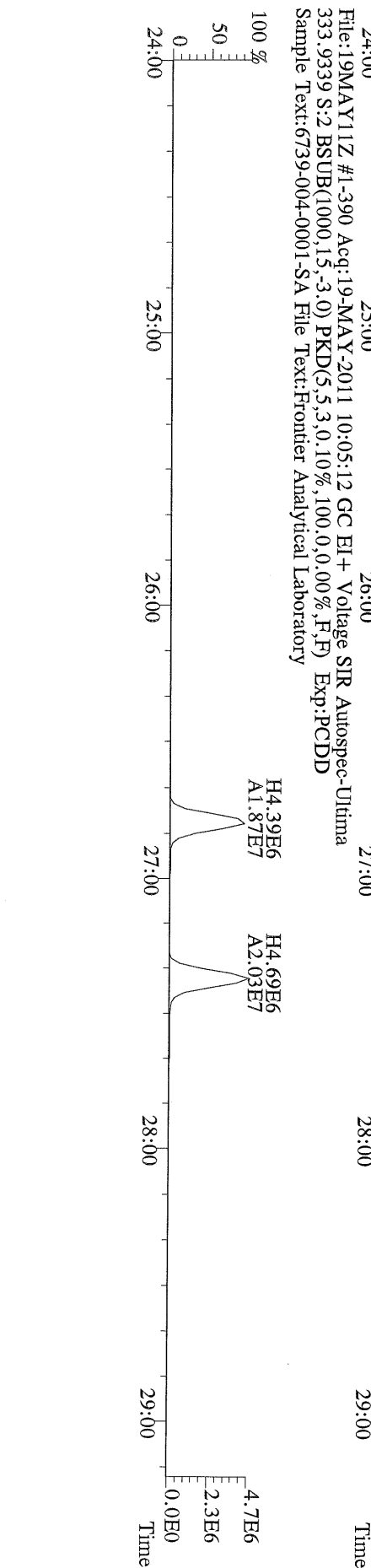
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319.8965 S:2 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



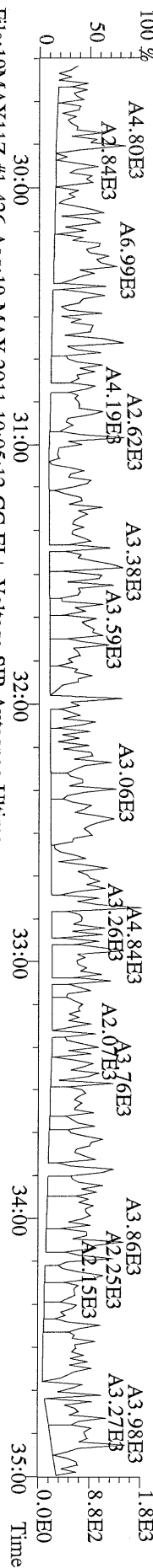
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327.8847 S:2 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



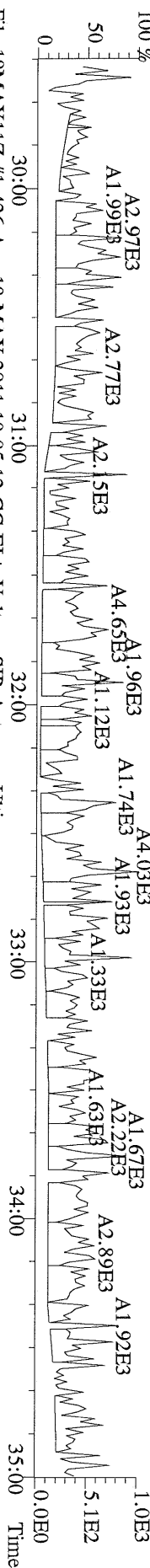
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331.9368 S:2 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



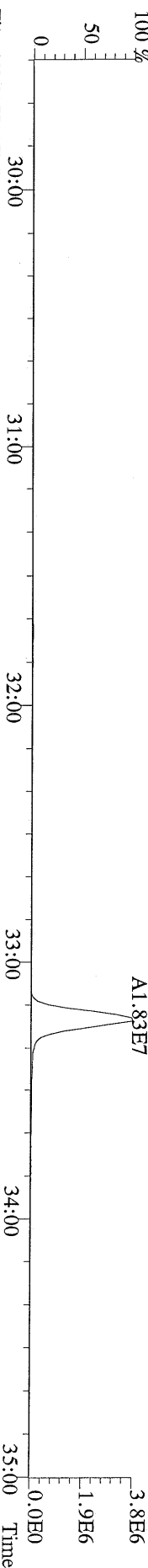
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355.8546 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



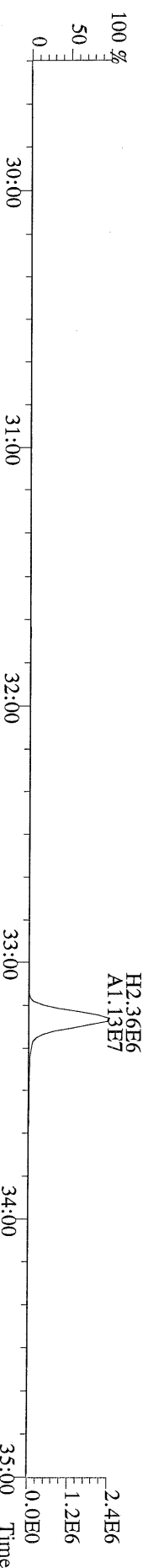
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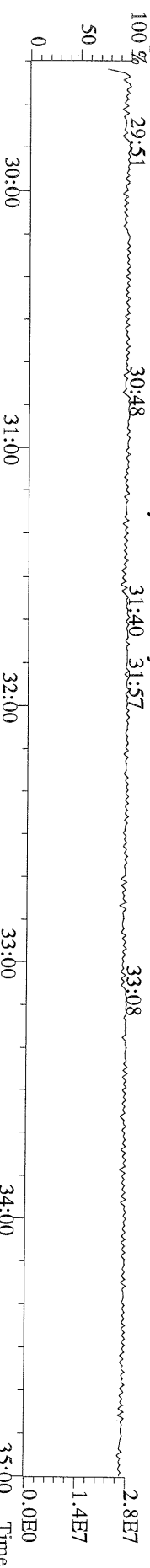
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367.8949 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



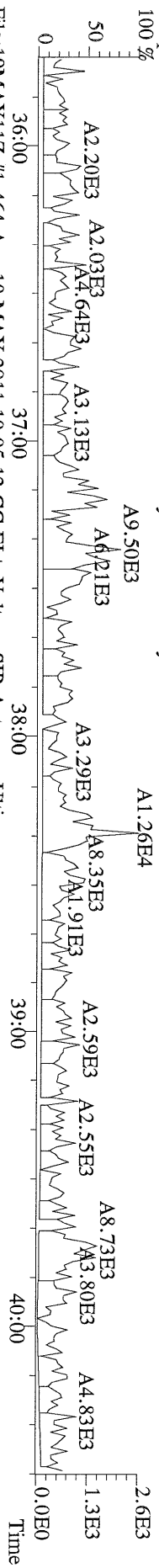
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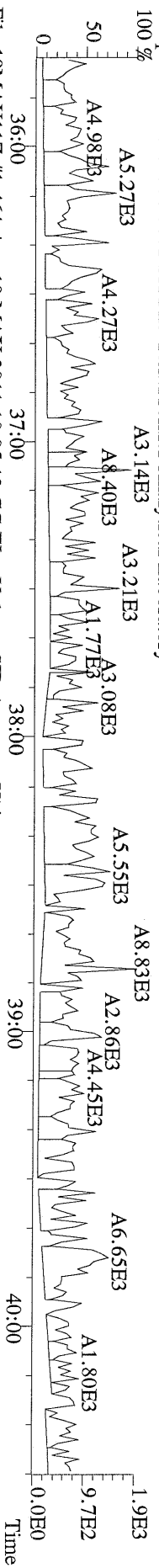
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366.9792 S:2 F:2 Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



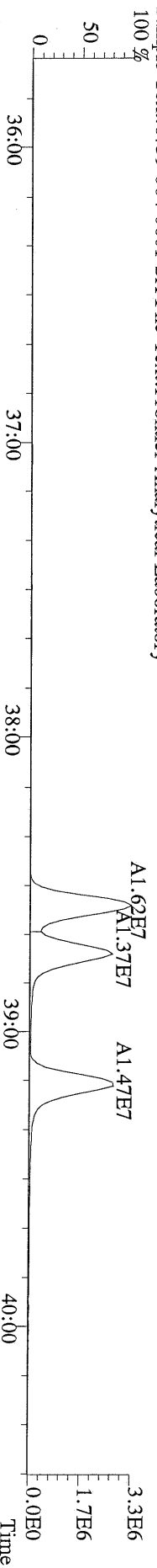
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 389.8156 S:2 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



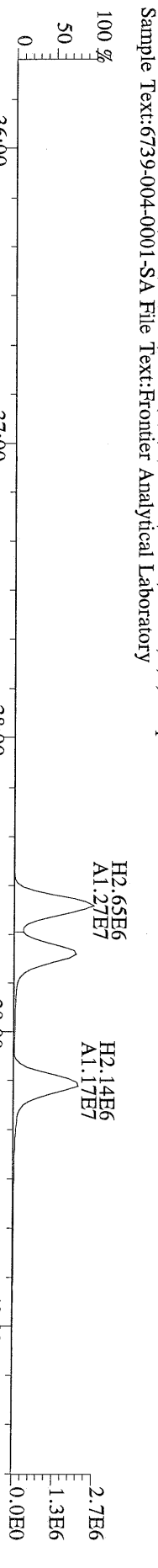
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 391.8127 S:2 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



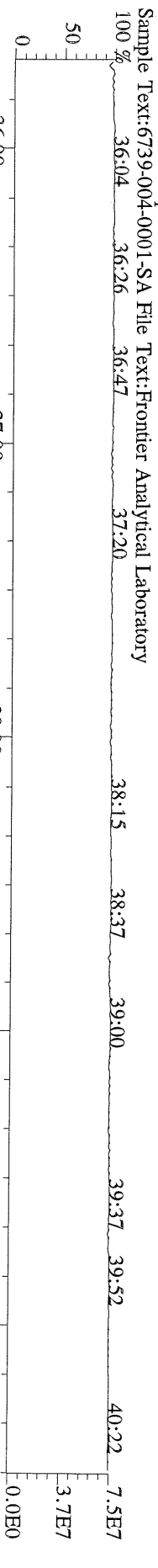
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 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



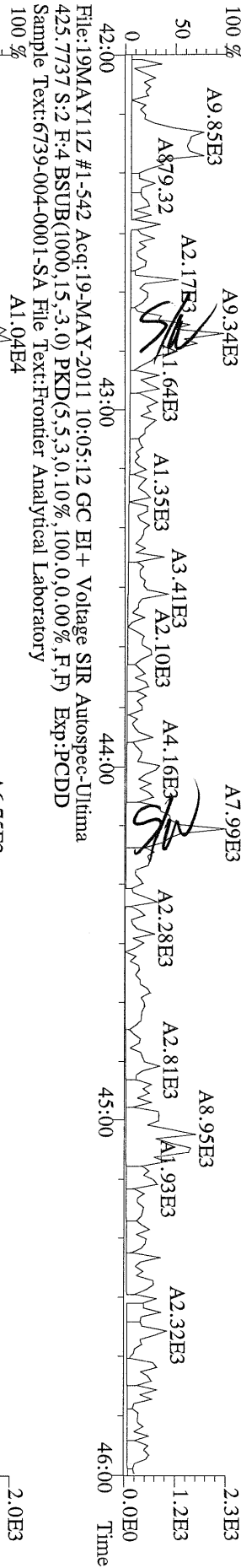
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 403.8530 S:2 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



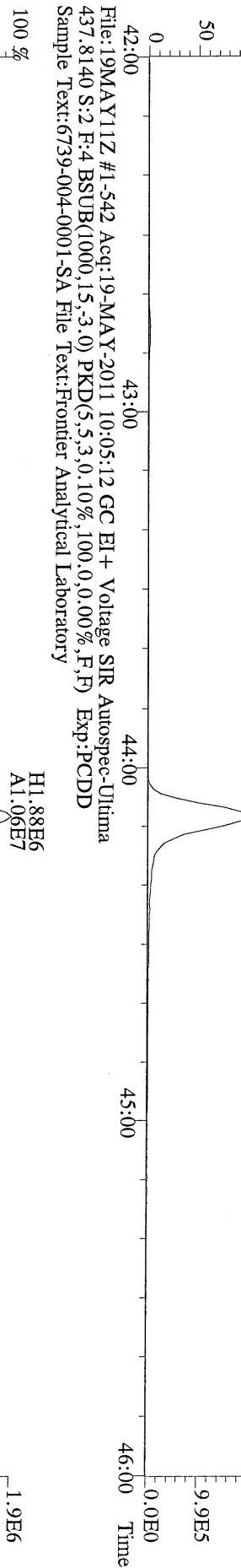
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 380.9760 S:2 F:3 Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



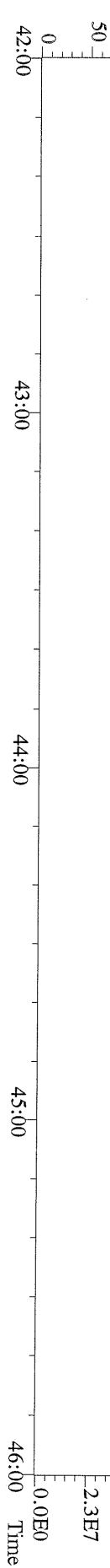
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 423.7767 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



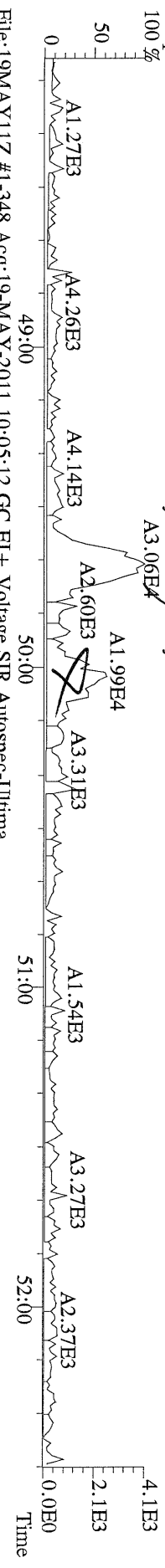
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 435.8169 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



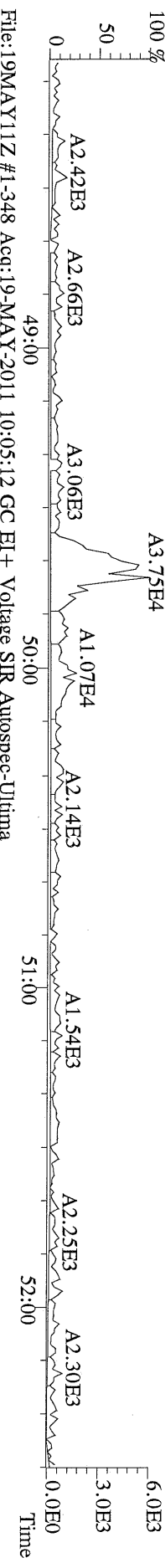
File:19MAYY11Z #1-542 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 437.8140 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



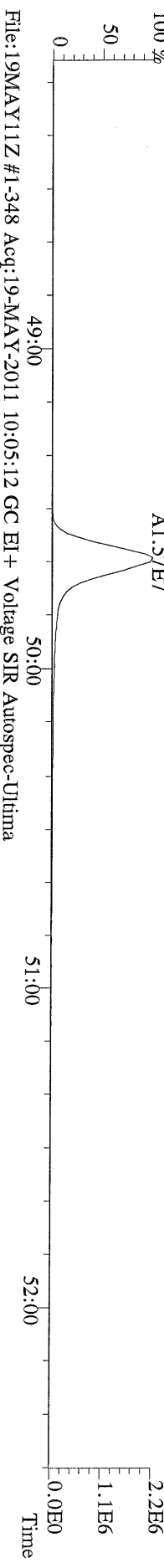
File:19MAYY11Z #1-348 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:2 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



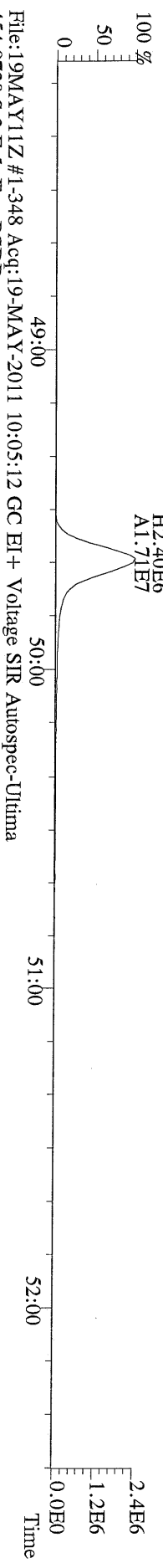
File:19MAYY11Z #1-348 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 459.7348 S:2 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



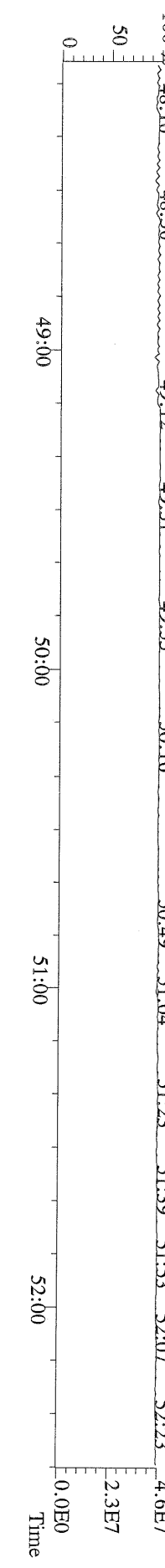
File:19MAYY11Z #1-348 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 469.7780 S:2 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



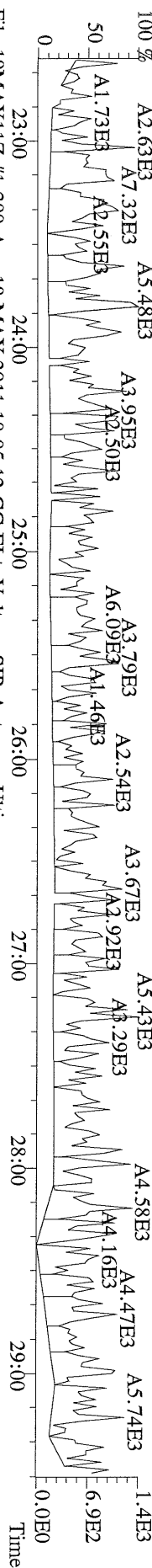
File:19MAYY11Z #1-348 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 471.7750 S:2 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



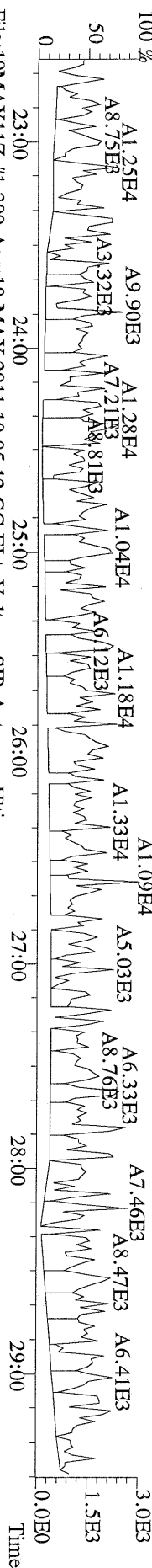
File:19MAYY11Z #1-348 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 454.9728 S:2 F:5 Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



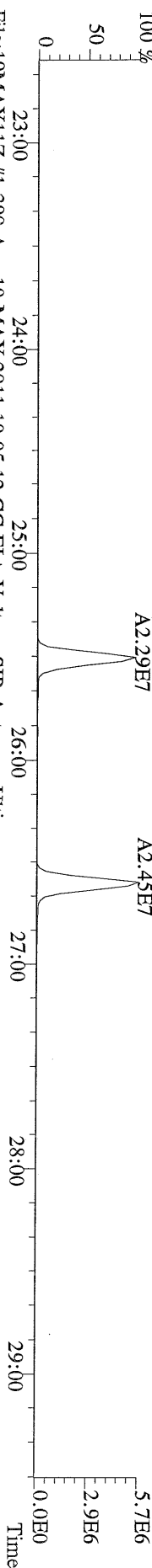
File:19MAY11Z #1-390 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



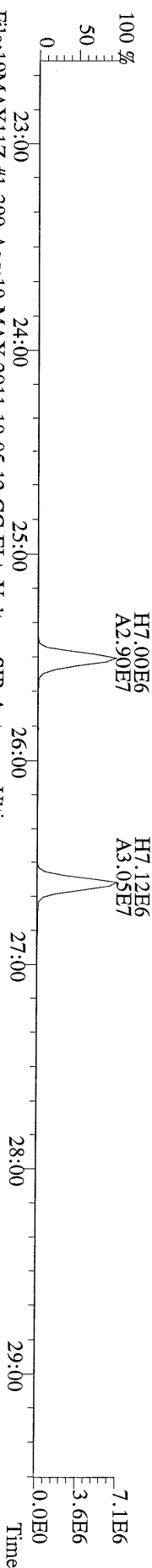
File:19MAY11Z #1-390 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



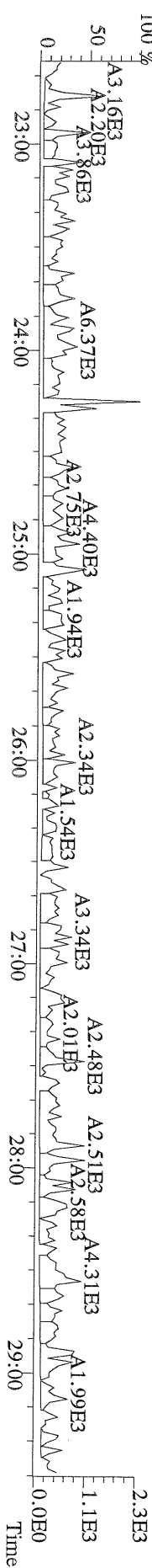
File:19MAY11Z #1-390 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



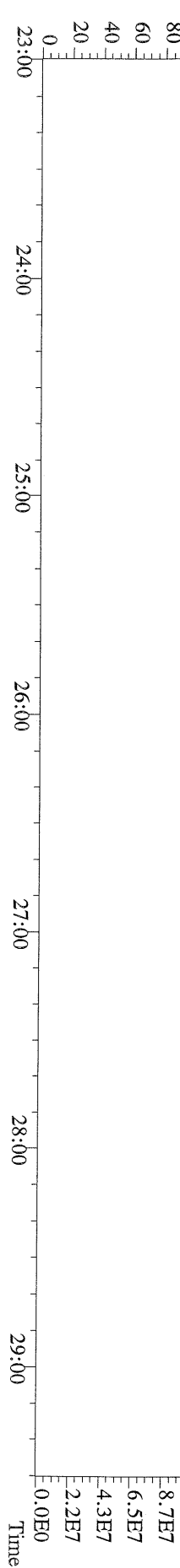
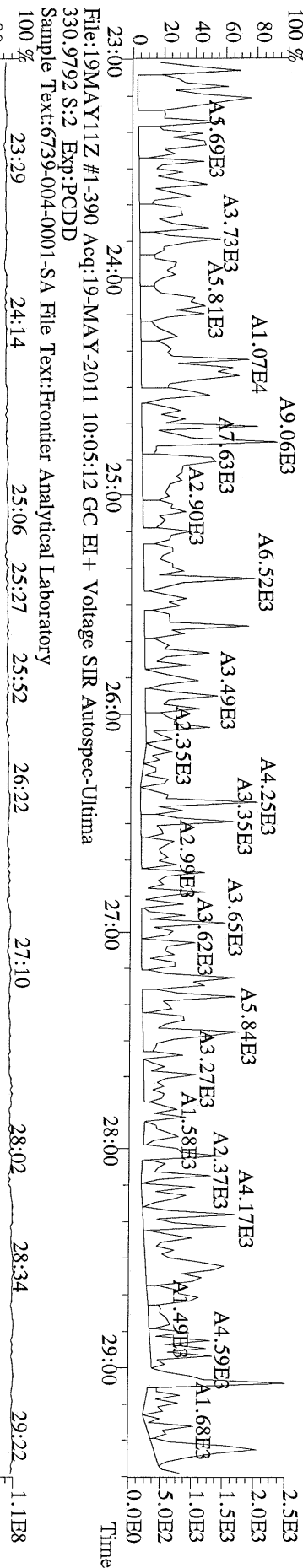
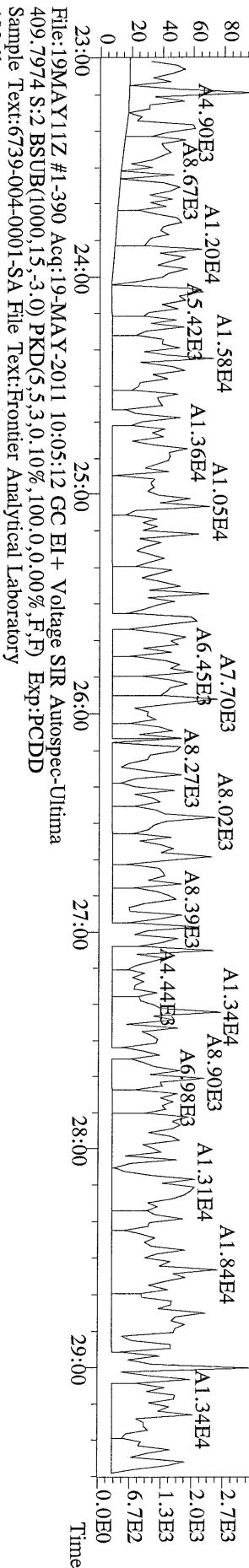
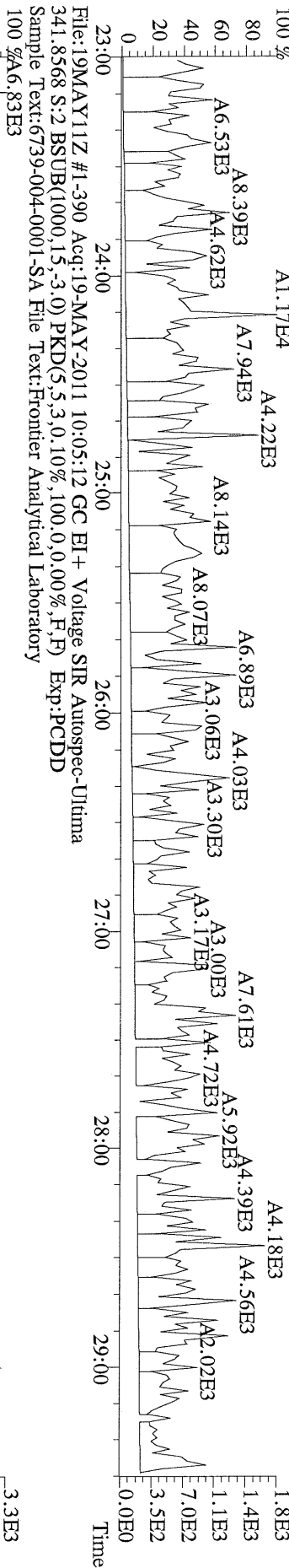
File:19MAY11Z #1-390 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



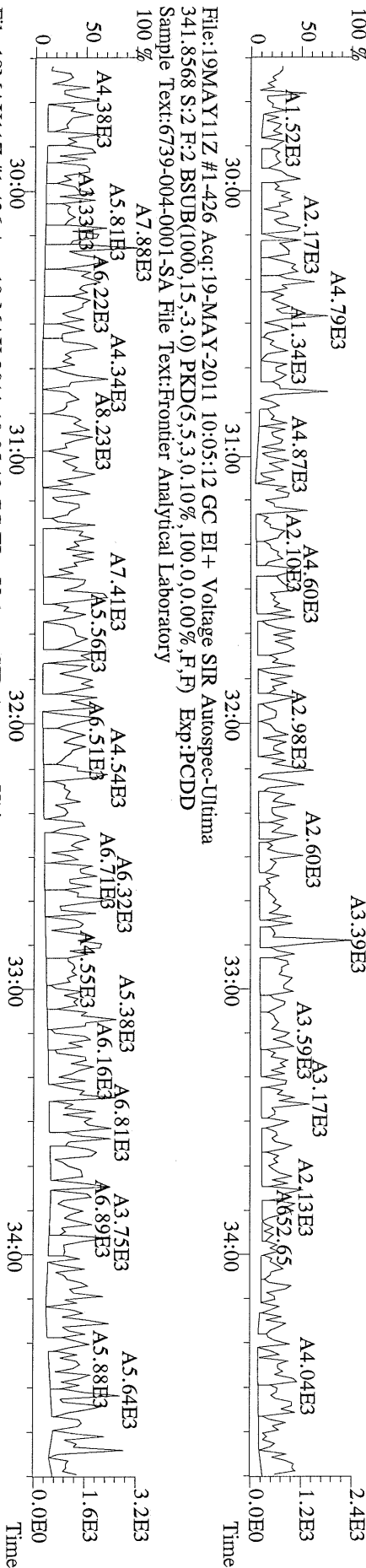
File:19MAY11Z #1-390 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



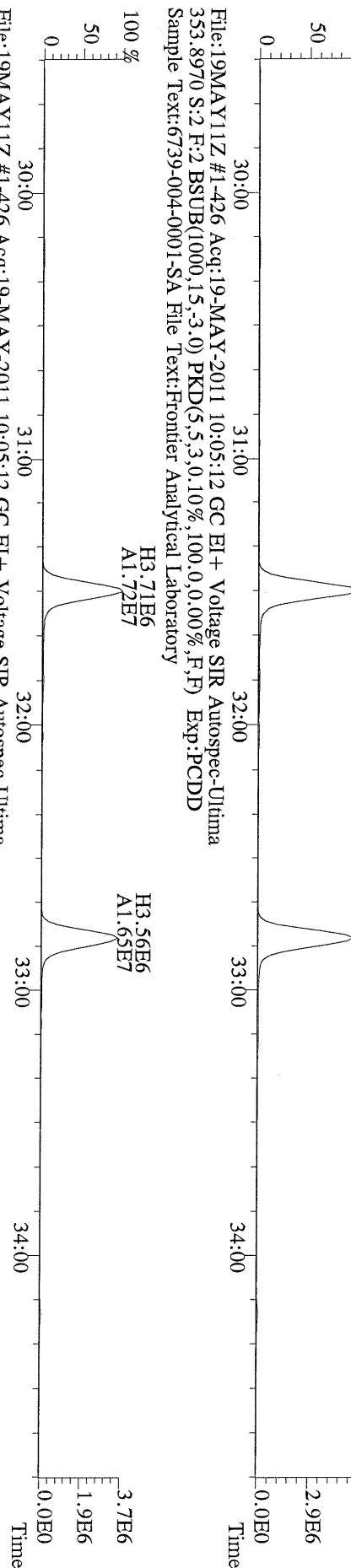
File:19MAY11Z #1-390 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



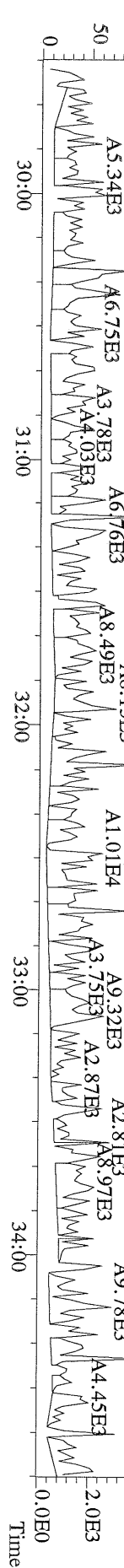
File: 19MAY11Z #1-426 Acq: 19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



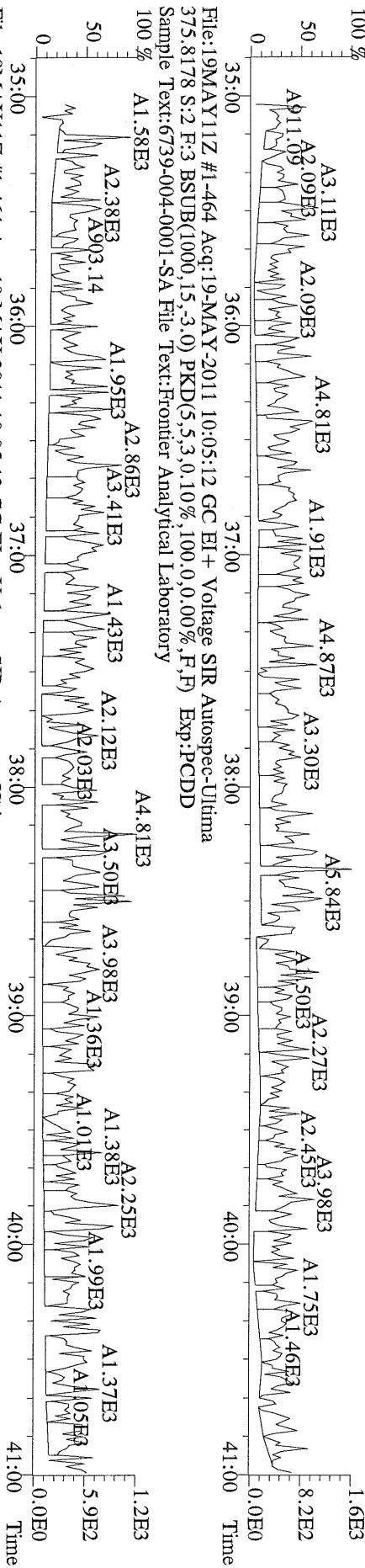
File: 19MAY11Z #1-426 Acq: 19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



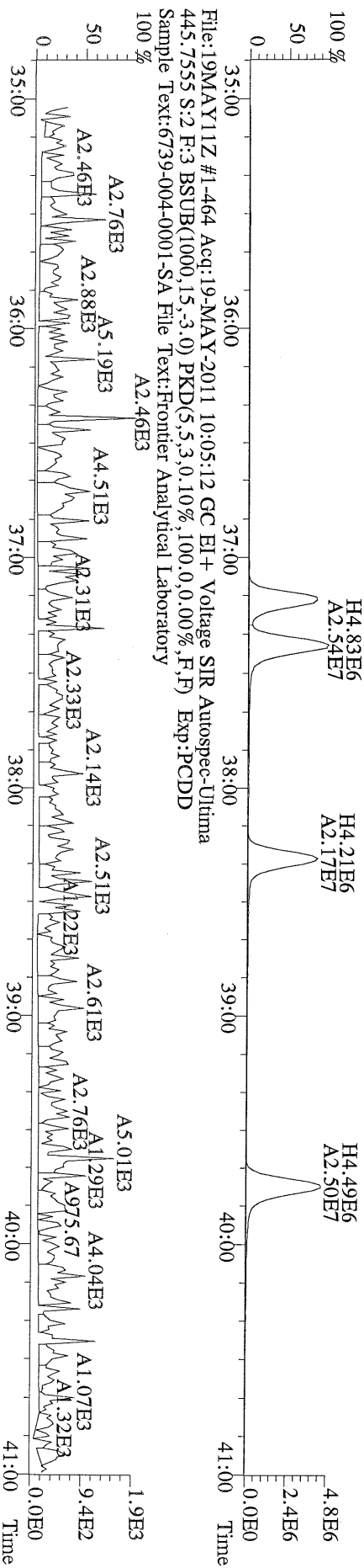
File: 19MAY11Z #1-426 Acq: 19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



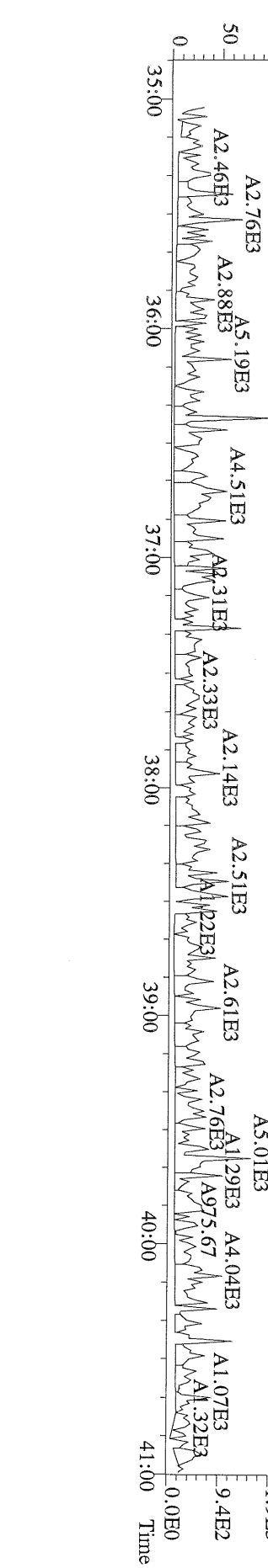
File:19MAYY11Z #1-464 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:2 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



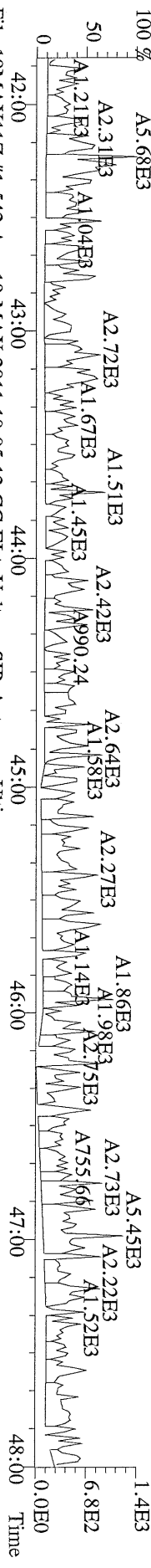
File:19MAYY11Z #1-464 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:2 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



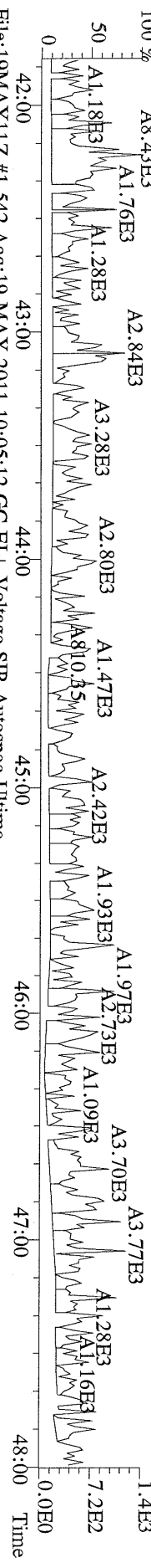
File:19MAYY11Z #1-464 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:2 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



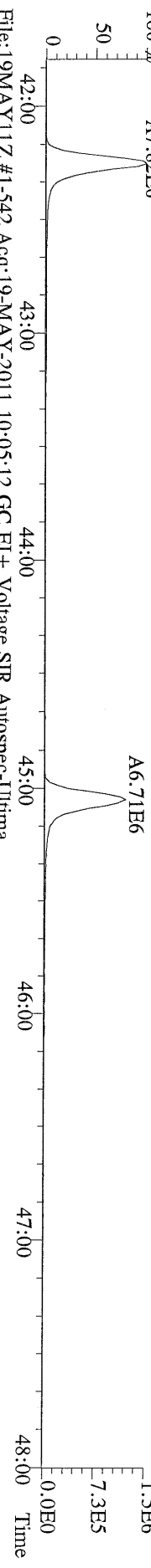
File:19MAY11Z #1-542 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultime
407.7818 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



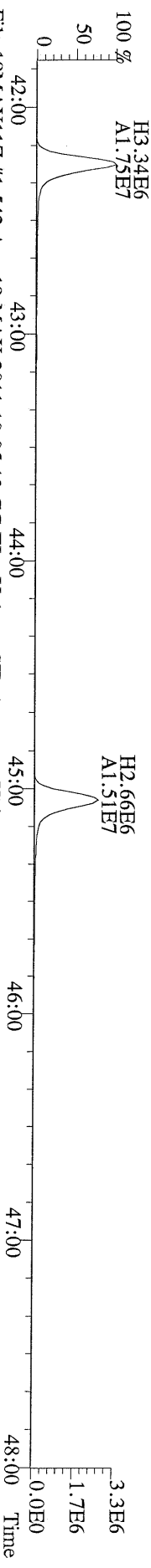
File:19MAY11Z #1-542 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultime
409.7788 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



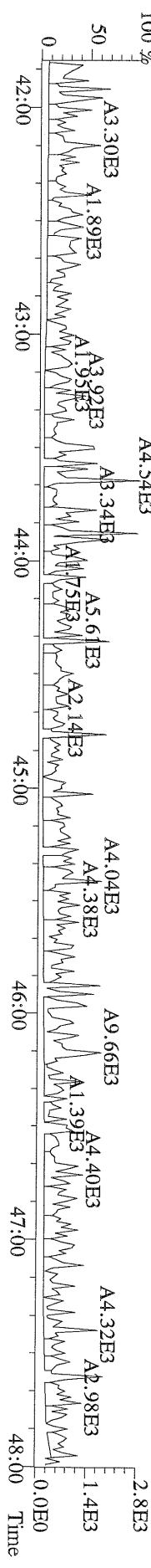
File:19MAY11Z #1-542 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultime
417.8253 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



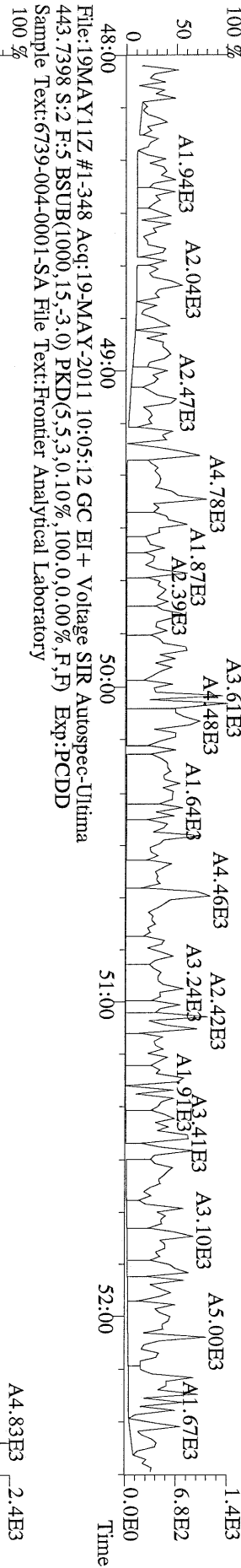
File:19MAY11Z #1-542 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultime
419.8220 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory




File:19MAY11Z #1-542 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultime
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:6739-004-0001-SA File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-348 Acq:19-MAY-2011 10:05:12 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:6739-004-0001-SA File Text:Prionier Analytical Laboratory

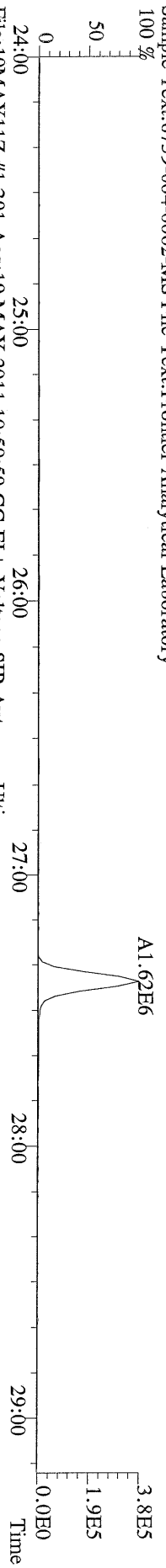


Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	DL	
2,3,7,8-TCDD	3.66e+06	0.79 y	27:24	1.15	207		2.50	-	-	*	
1,2,3,7,8-PeCDD	1.40e+07	1.57 y	33:15	1.02	1120		2.50	-	-	*	
1,2,3,4,7,8-HxCDD	1.34e+07	1.26 y	38:35	1.09	1110		2.50	-	-	*	
1,2,3,6,7,8-HxCDD	1.13e+07	1.23 y	38:45	1.08	1110		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	1.29e+07	1.23 y	39:12	1.12	1120		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	9.34e+06	1.05 y	44:09	1.03	1100		2.50	-	-	*	
OCDD	1.55e+07	0.89 y	49:41	1.21	2110		2.50	-	-	*	
2,3,7,8-TCDF	5.29e+06	0.77 y	26:37	1.09	211		2.50	-	-	*	
1,2,3,7,8-PeCDF	1.86e+07	1.55 y	31:31	0.96	1060		2.50	-	-	*	
2,3,4,7,8-PeCDF	1.87e+07	1.55 y	32:49	0.96	1100		2.50	-	-	*	
1,2,3,4,7,8-HxCDF	1.55e+07	1.25 y	37:12	1.18	1090		2.50	-	-	*	
1,2,3,6,7,8-HxCDF	1.71e+07	1.25 y	37:24	1.03	1110		2.50	-	-	*	
2,3,4,6,7,8-HxCDF	1.61e+07	1.23 y	38:20	1.17	1100		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	2.03e+07	1.26 y	39:46	1.27	1120		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	1.40e+07	1.03 y	42:17	1.36	1090		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	1.21e+07	1.05 y	45:04	1.35	1090		2.50	-	-	*	
OCDF	1.92e+07	0.89 y	50:03	0.97	2300		2.50	-	-	*	
										Rec	
13C-2,3,7,8-TCDD	2.99e+07	0.81 y	27:23	0.99	1740					89.9	
13C-1,2,3,7,8-PeCDD	2.37e+07	1.60 y	33:13	0.79	1730					89.3	
13C-1,2,3,4,7,8-HxCDD	2.15e+07	1.28 y	38:34	1.03	1600					82.6	
13C-1,2,3,6,7,8-HxCDD	1.83e+07	1.29 y	38:44	0.96	1460					75.5	
13C-1,2,3,4,6,7,8-HpCDD	1.59e+07	1.06 y	44:08	0.75	1630					84.1	
13C-OCDD	2.36e+07	0.91 y	49:39	0.50	3590					92.5	
13C-2,3,7,8-TCDF	4.49e+07	0.80 y	26:36	0.98	1750					90.4	
13C-1,2,3,7,8-PeCDF	3.53e+07	1.57 y	31:30	0.78	1740					89.9	
13C-2,3,4,7,8-PeCDF	3.44e+07	1.59 y	32:49	0.75	1750					90.4	
13C-1,2,3,4,7,8-HxCDF	2.34e+07	0.53 y	37:11	1.05	1700					87.9	
13C-1,2,3,6,7,8-HxCDF	2.90e+07	0.52 y	37:23	1.40	1590					81.7	
13C-2,3,4,6,7,8-HxCDF	2.43e+07	0.52 y	38:19	1.16	1610					83.0	
13C-1,2,3,7,8,9-HxCDF	2.75e+07	0.52 y	39:45	1.30	1630					83.8	
13C-1,2,3,4,6,7,8-HpCDF	1.82e+07	0.45 y	42:15	0.83	1690					87.1	
13C-1,2,3,4,7,8,9-HpCDF	1.61e+07	0.45 y	45:03	0.69	1770					91.4	
13C-OCDF	3.35e+07	0.90 y	50:02	0.77	3330					85.9	
37Cl-2,3,7,8-TCDD	9.49e+06		27:24	0.71	772					99.5	
13C-1,2,3,4-TCDD	3.36e+07	0.80 y	26:47	-	61.0						
13C-1,2,3,4-TCDF	5.06e+07	0.80 y	25:31	-	65.6						
13C-1,2,3,7,8,9-HxCDD	2.53e+07	1.27 y	39:11	-	63.6						
							Fac Noise-1	Noise-2	DL	#Hom	
Total Tetra-Dioxins	3.90e+06		23:18	1.15	221		2.50	-	-	*	23
Total Penta-Dioxins	1.41e+07		31:44	1.02	1130		2.50	-	-	*	4
Total Hexa-Dioxins	3.77e+07		37:31	1.10	3340		2.50	-	-	*	8
Total Hepta-Dioxins	9.59e+06		42:47	1.03	1130		2.50	-	-	*	16
Total Tetra-Furans	5.65e+06		22:58	1.09	225		2.50	-	-	*	24
1st Fn. Tot Penta-Furans	1.93e+05		22:56	0.96	11.1		2.50	-	-	*	PeCDF 28
Total Penta-Furans	3.81e+07		30:16	0.96	2200		2.50	-	-	*	2210 9
Total Hexa-Furans	6.92e+07		35:32	1.16	4430		2.50	-	-	*	13
Total Hepta-Furans	2.67e+07		42:17	1.36	2230		2.50	-	-	*	24

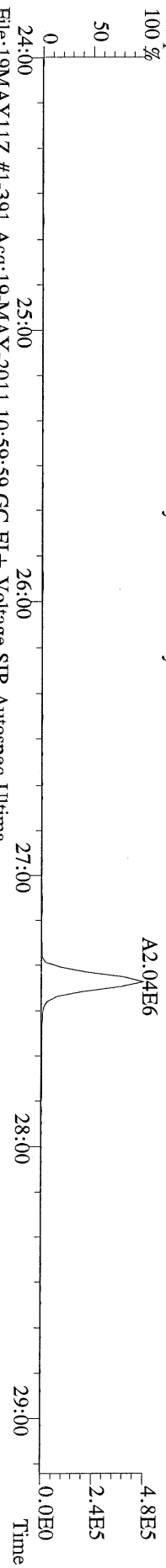
Analyst: 

Date: 5/19/11

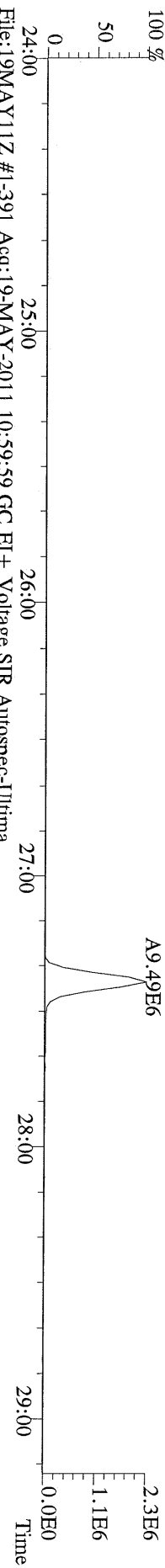
File:19MAY11Z #1-391 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



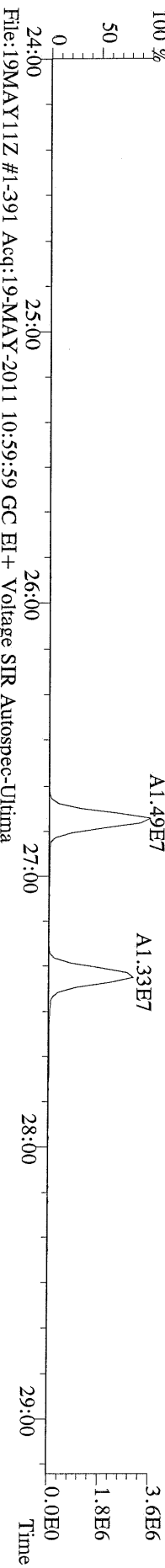
File:19MAY11Z #1-391 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



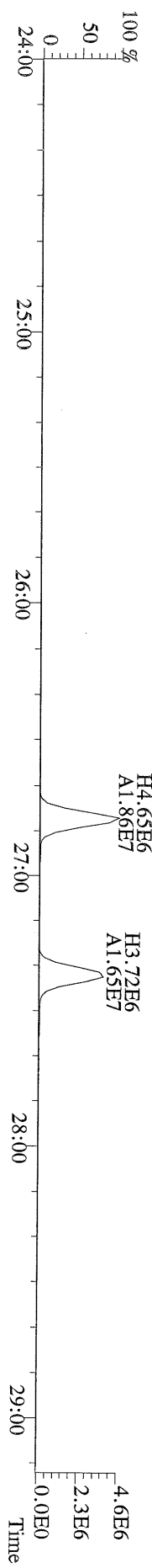
File:19MAY11Z #1-391 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



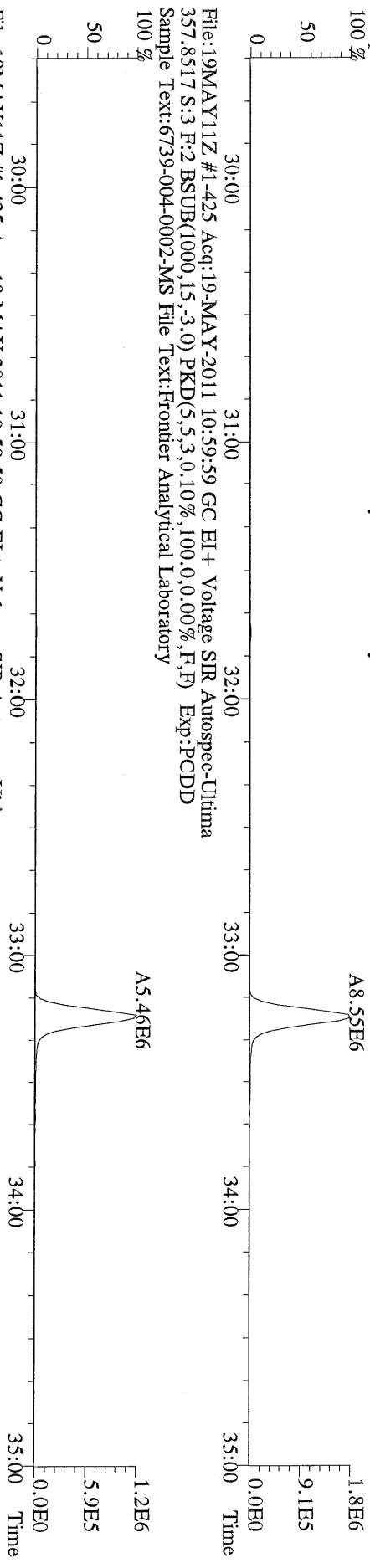
File:19MAY11Z #1-391 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



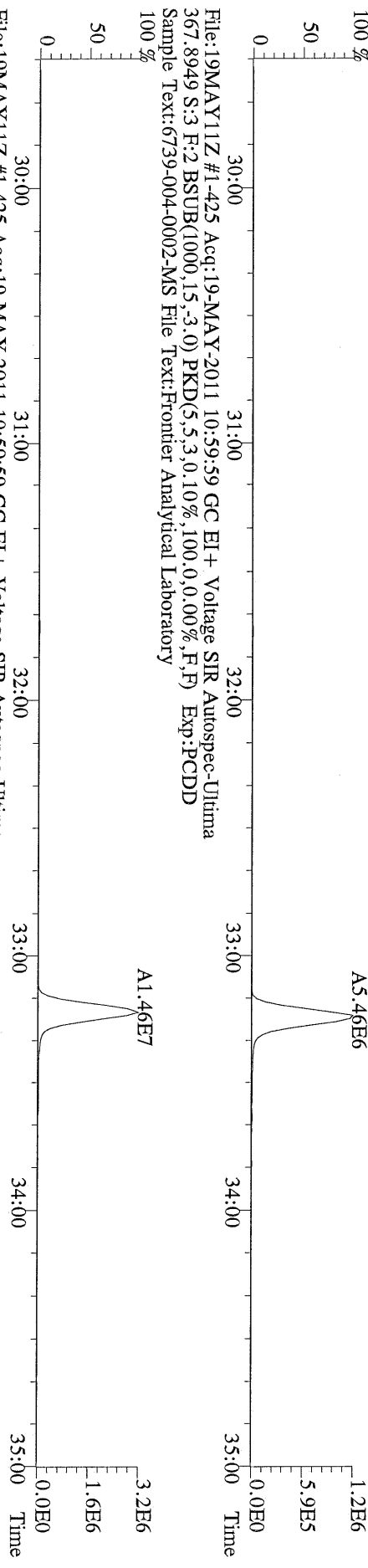
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Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



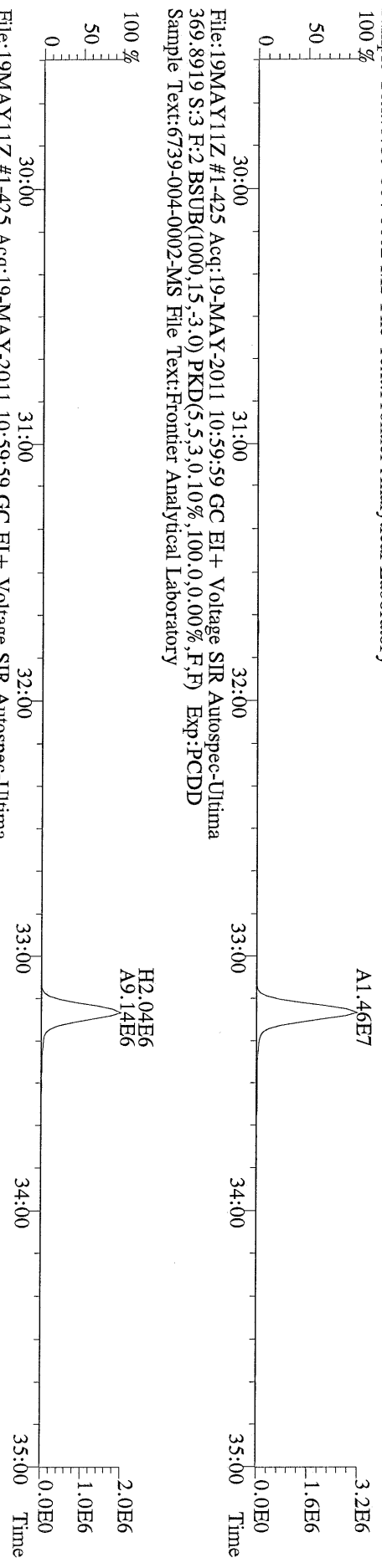
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355.8546 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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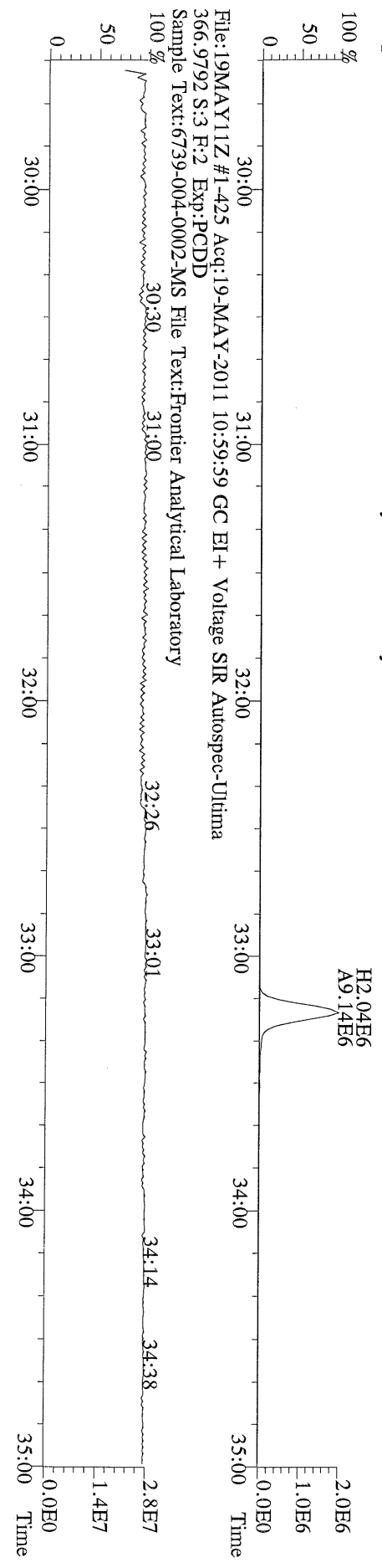
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357.8517 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



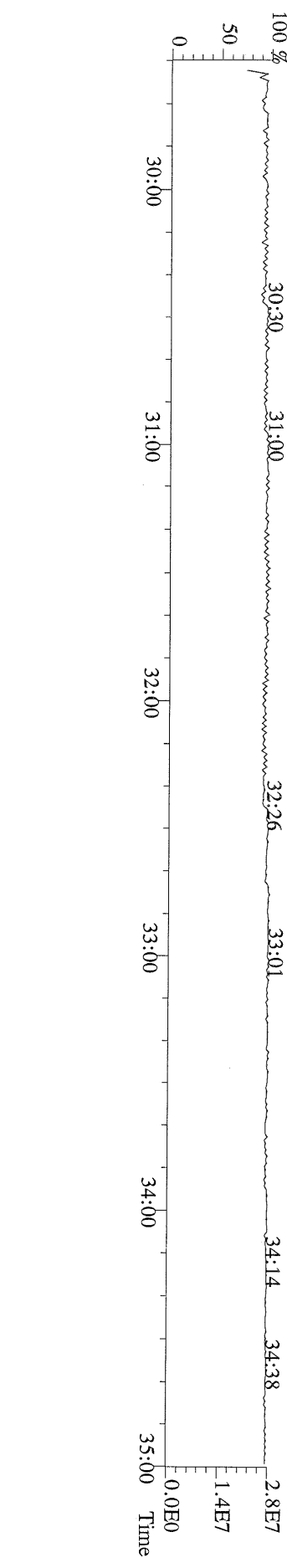
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367.8949 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



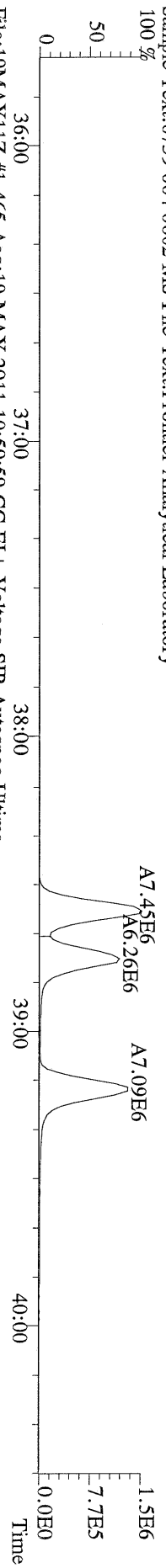
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369.8919 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



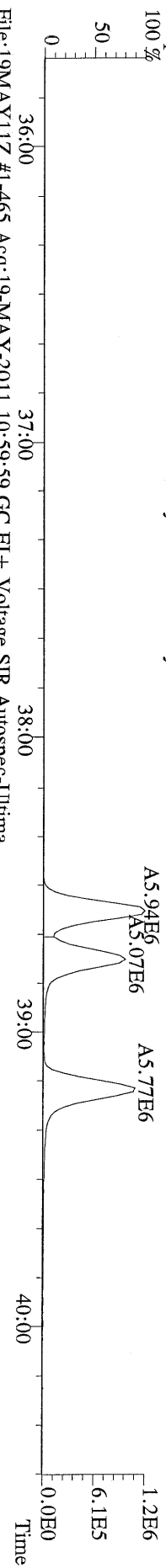
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366.9792 S:3 F:2 Exp:PCDD
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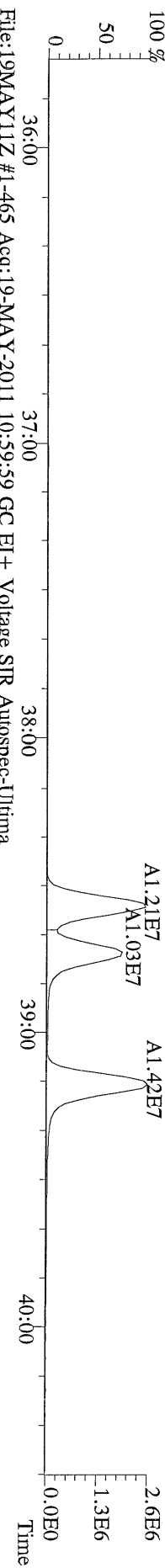
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 389.8156 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



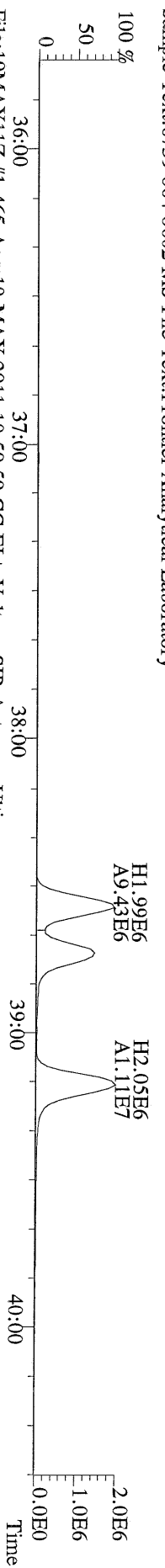
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 391.8127 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



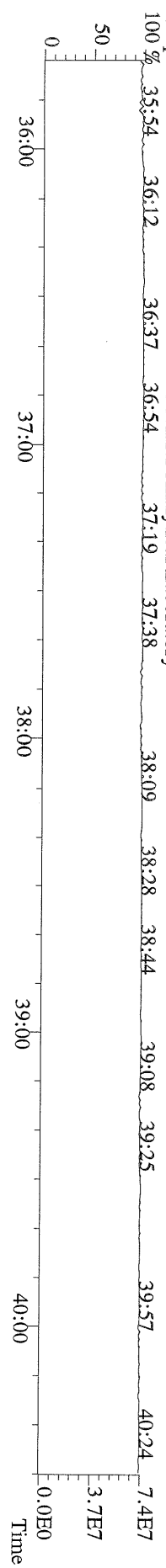
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 401.8559 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



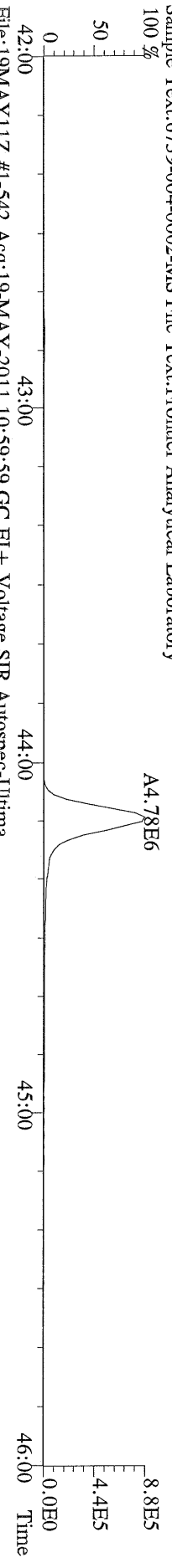
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 403.8530 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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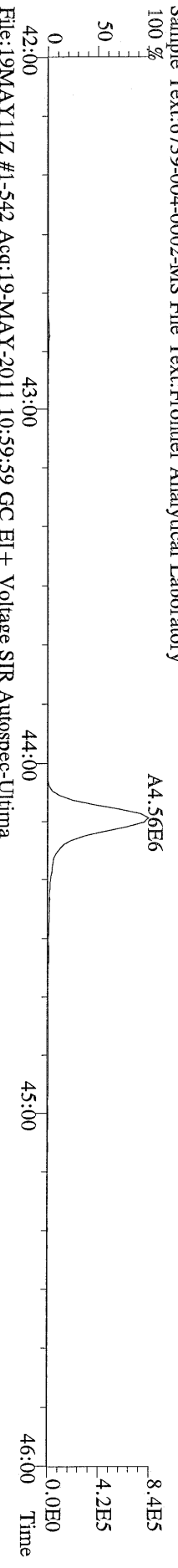
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 380.9760 S:3 F:3 Exp:PCDD
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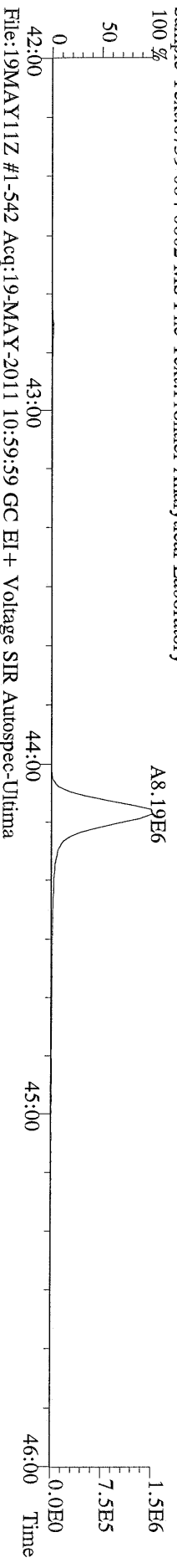
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423.7767 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



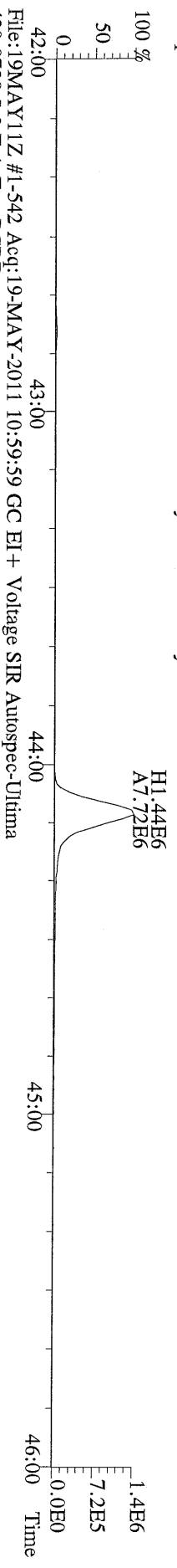
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425.7737 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



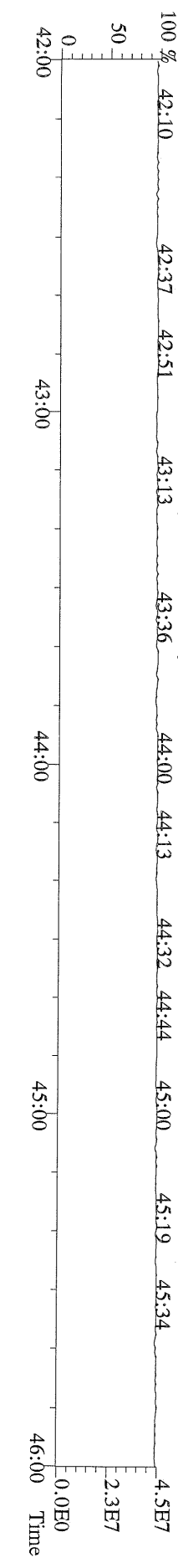
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435.8169 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



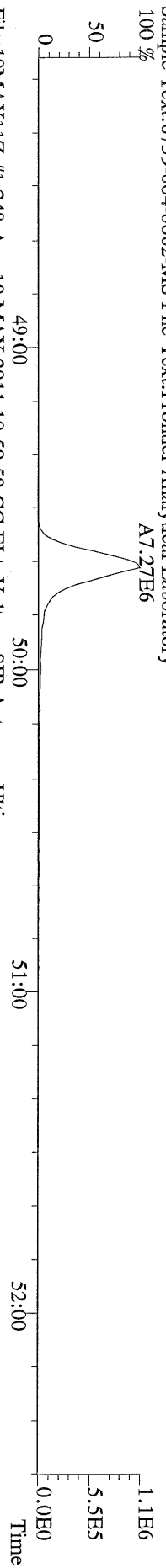
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Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



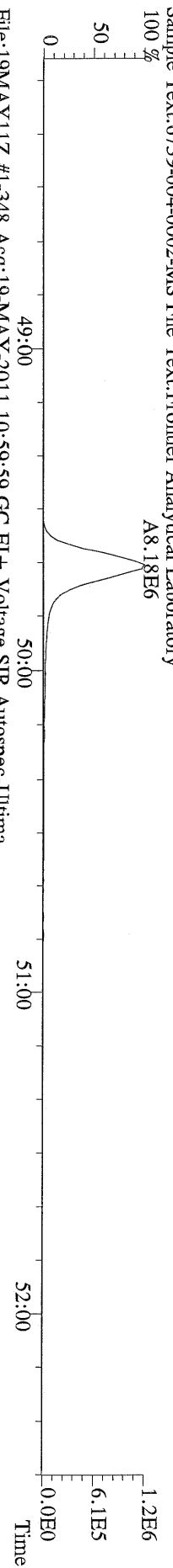
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430.9728 S:3 F:4 Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



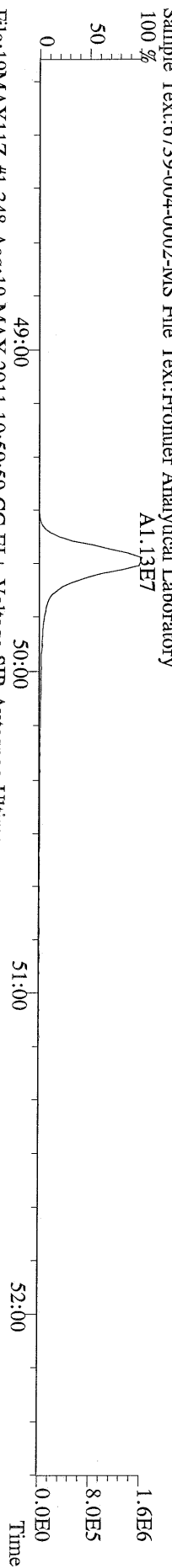
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457.7377 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



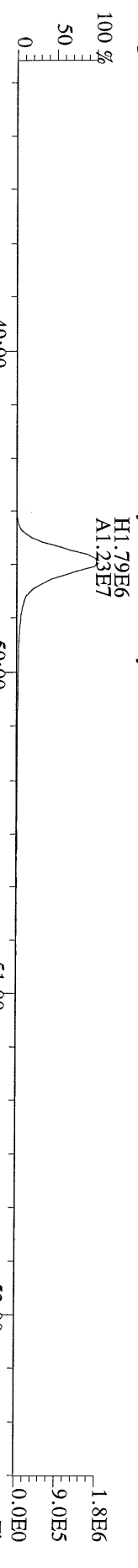
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Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



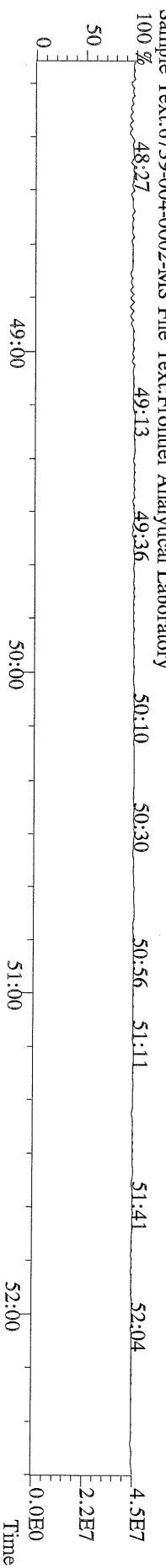
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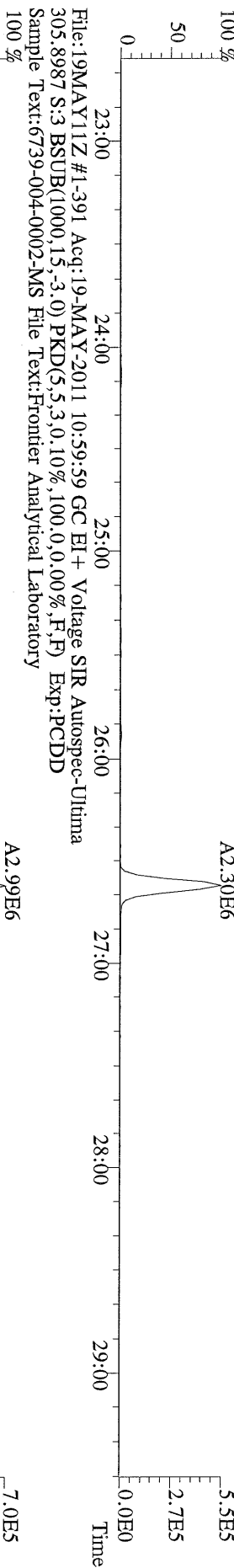
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Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



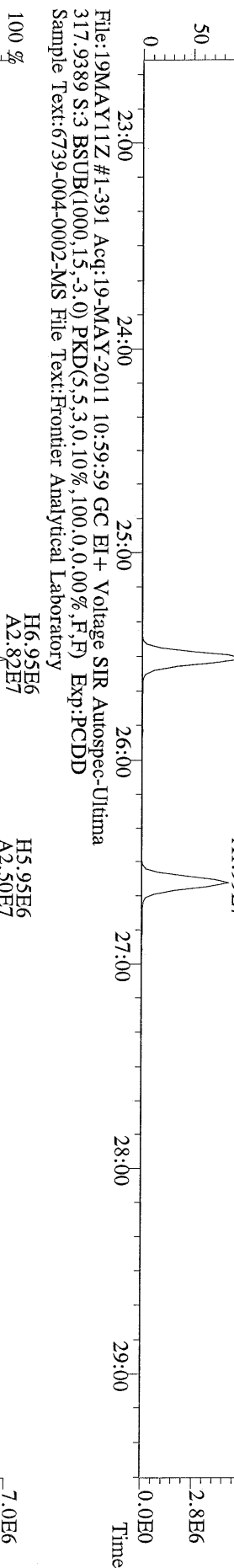
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Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



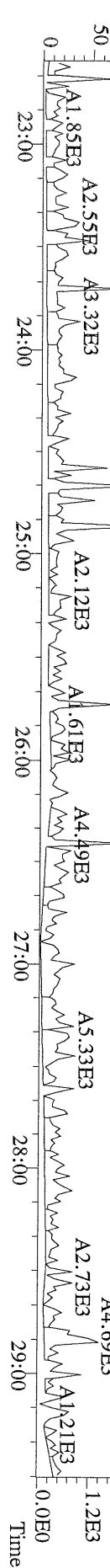
File:19MAY11Z #1-391 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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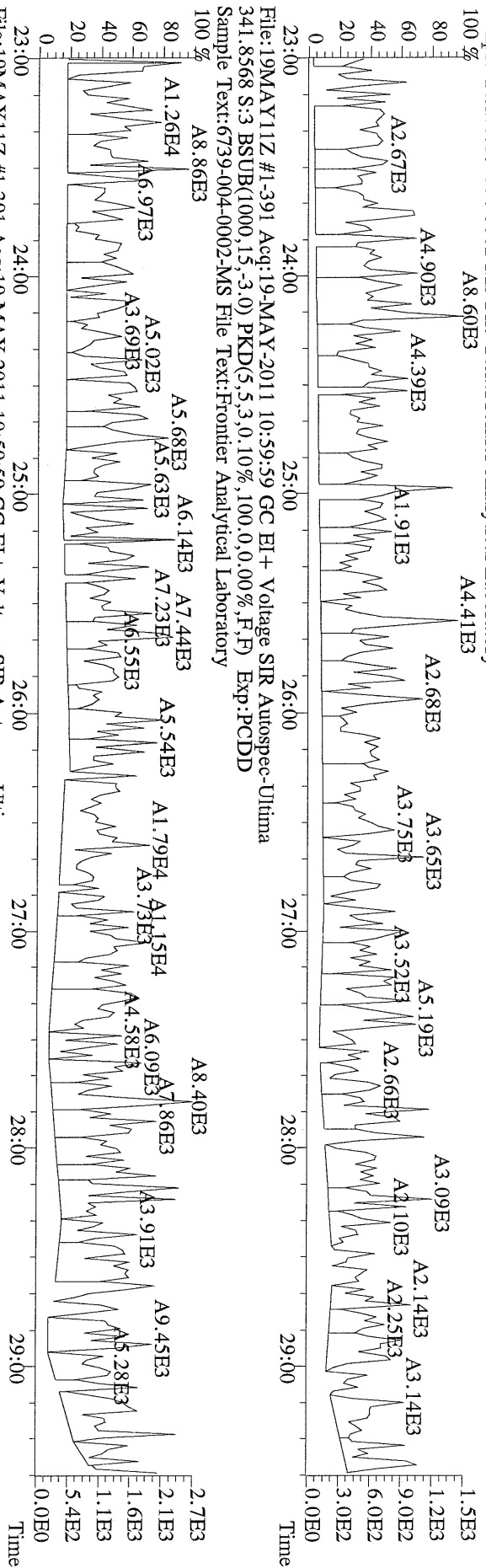
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315.9419 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



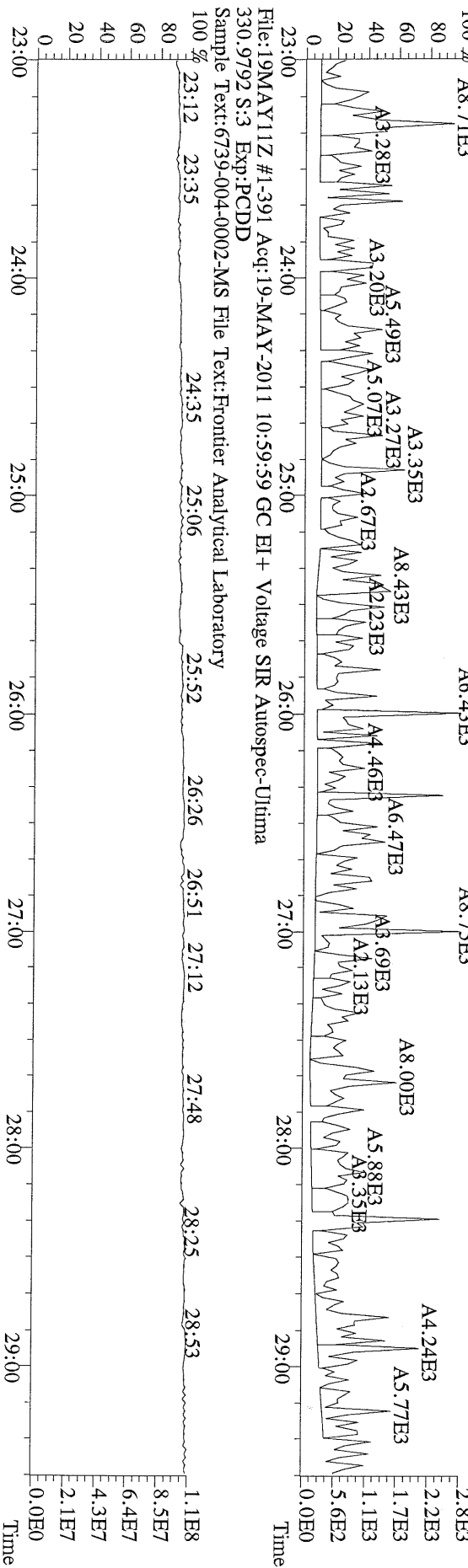
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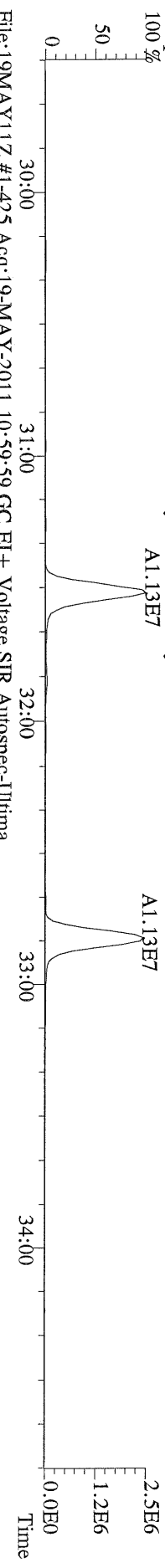
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339.8597 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text: 6739-004-0002-MS File Text: Frontier Analytical Laboratory



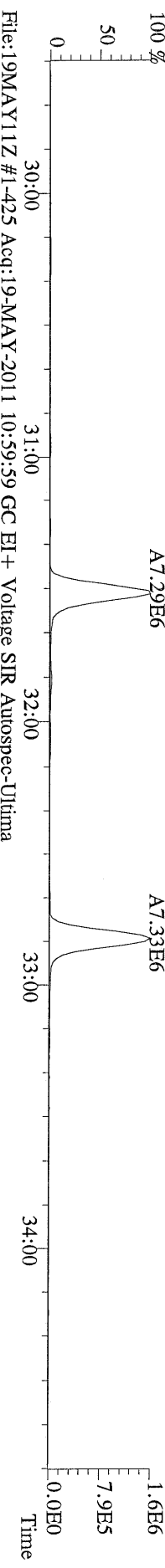
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409.7974 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text: 6739-004-0002-MS File Text: Frontier Analytical Laboratory



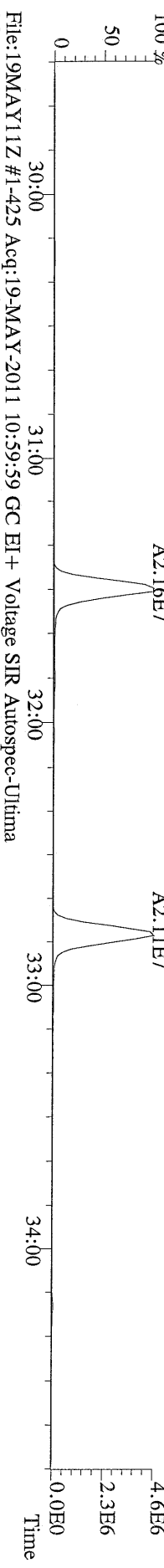
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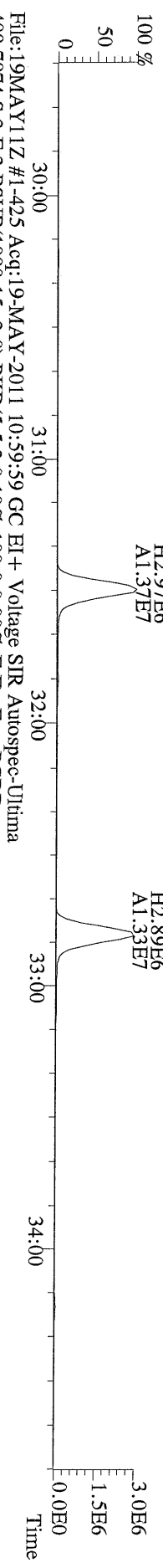
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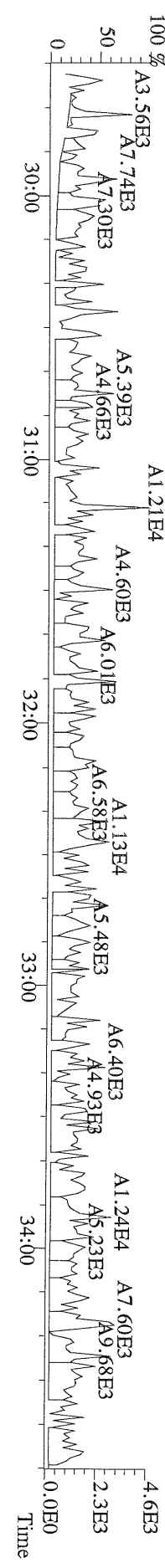
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351.9000 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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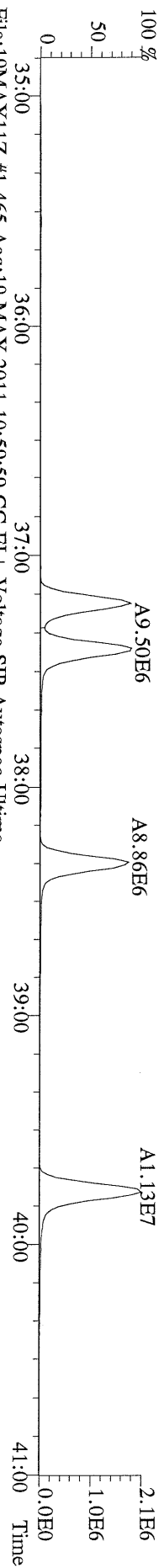
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353.8970 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-425 Acq:19-MAY-2011 10:59:59 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:6739-004-0002-MS File Text:Frontier Analytical Laboratory



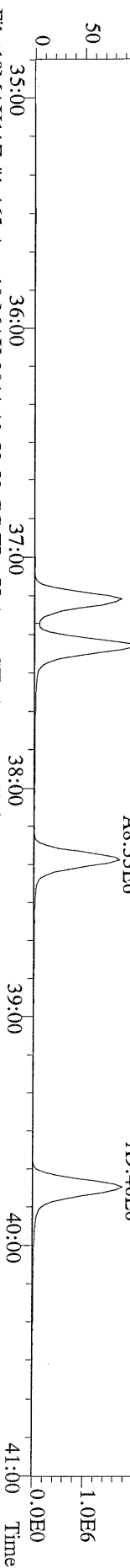
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 Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



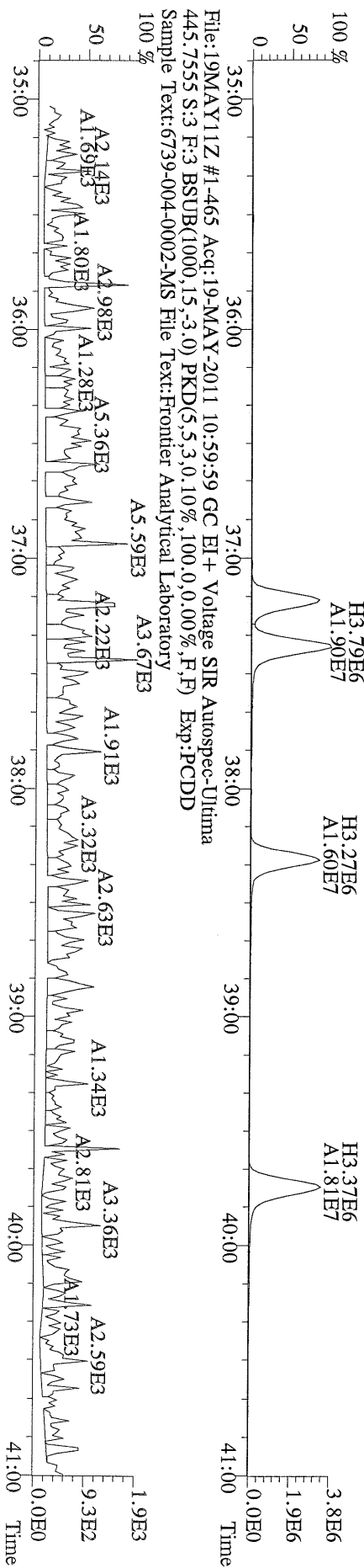
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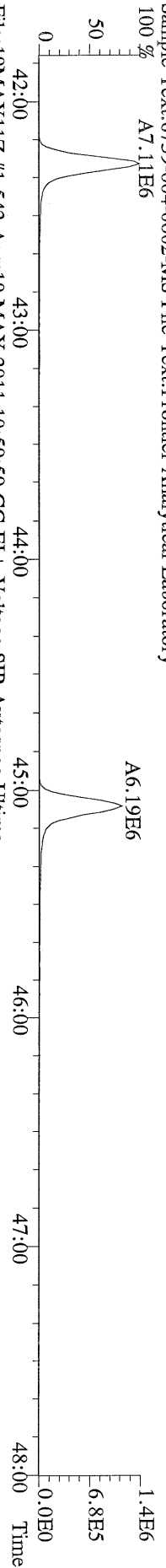
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 385.8610 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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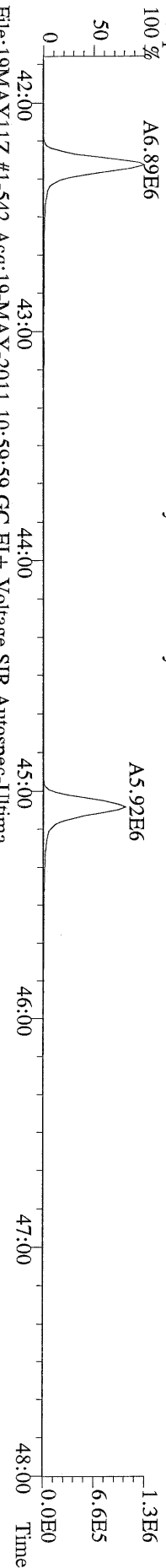
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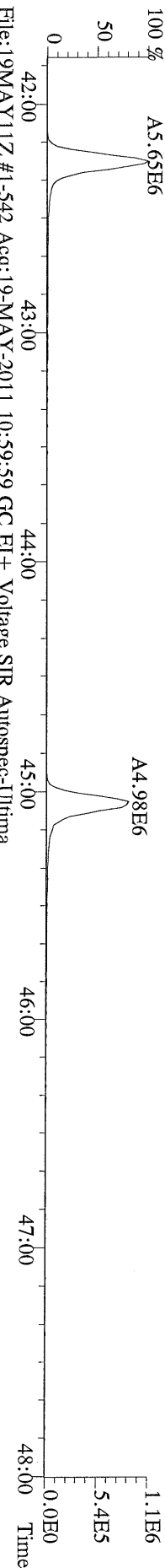
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407.7818 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



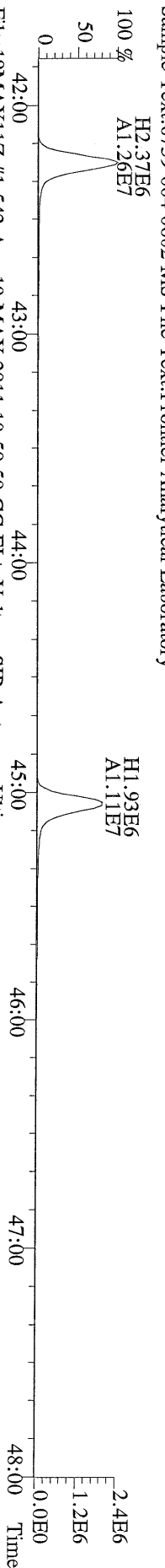
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409.7788 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



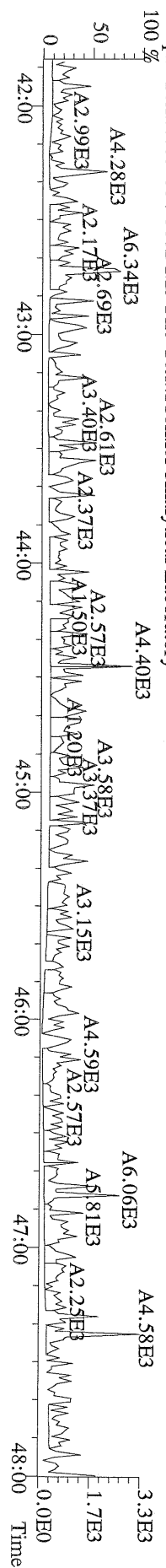
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417.8253 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



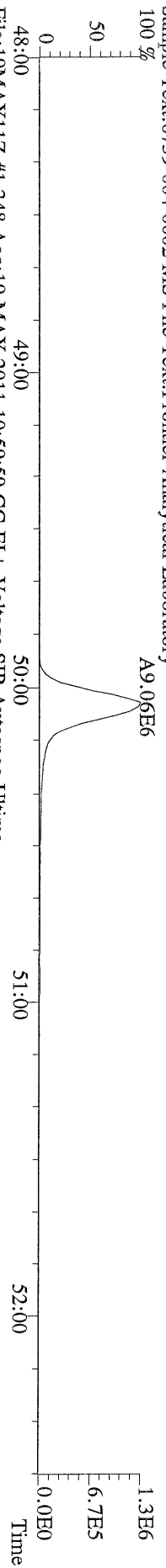
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Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



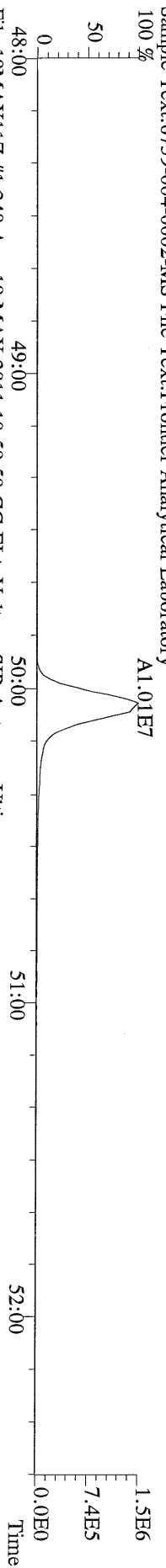
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479.7165 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



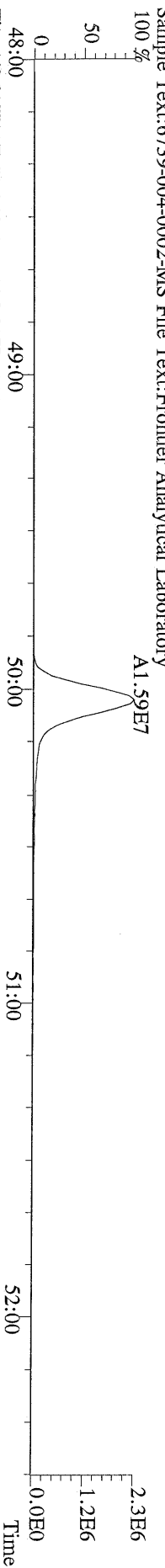
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 441.7428 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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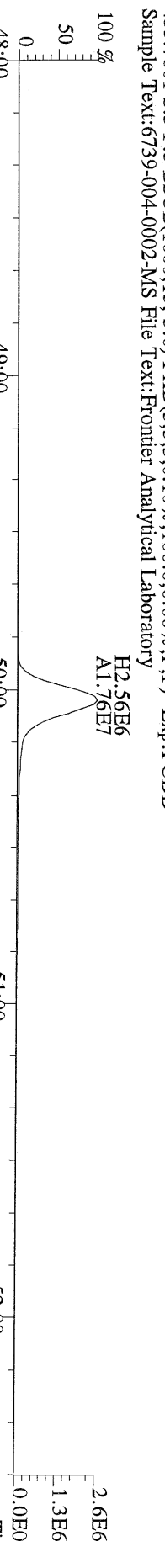
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 443.7398 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



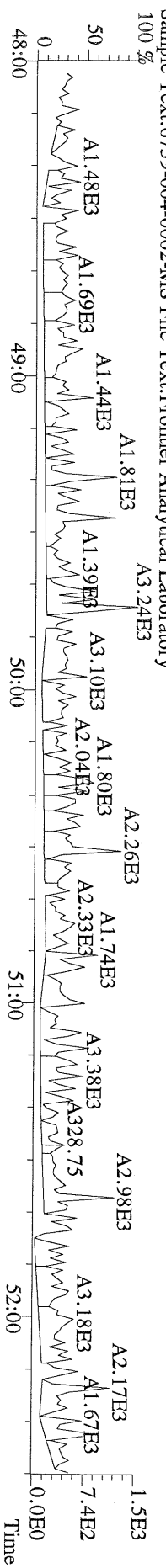
File:19MAY11Z #1-348 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
 453.7831 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-348 Acq:19-MAY-2011 10:59:59 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:6739-004-0002-MS File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-348 Acq:19-MAY-2011 10:59:59 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:6739-004-0002-MS File Text:Frontier Analytical Laboratory

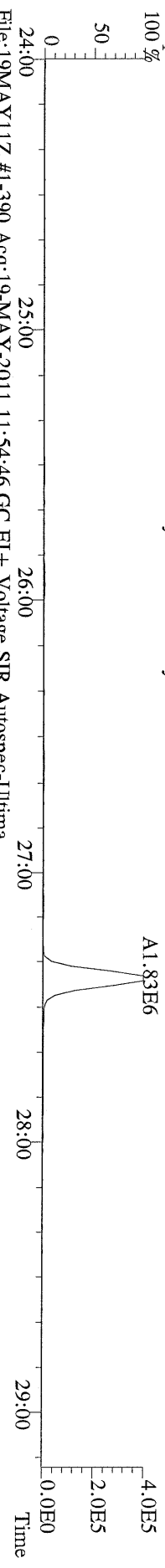


Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom
2,3,7,8-TCDD	4.11e+06	0.80 y	27:24	1.15	220		2.50	-	*	
1,2,3,7,8-PeCDD	1.58e+07	1.59 y	33:15	1.02	1180		2.50	-	*	
1,2,3,4,7,8-HxCDD	1.57e+07	1.27 y	38:35	1.09	1130		2.50	-	*	
1,2,3,6,7,8-HxCDD	1.33e+07	1.24 y	38:46	1.08	1130		2.50	-	*	
1,2,3,7,8,9-HxCDD	1.56e+07	1.26 y	39:13	1.12	1180		2.50	-	*	
1,2,3,4,6,7,8-HpCDD	1.11e+07	1.04 y	44:10	1.03	1140		2.50	-	*	
OCDD	1.86e+07	0.90 y	49:41	1.21	2140		2.50	-	*	
2,3,7,8-TCDF	5.81e+06	0.77 y	26:38	1.09	214		2.50	-	*	
1,2,3,7,8-PeCDF	2.13e+07	1.54 y	31:31	0.96	1090		2.50	-	*	
2,3,4,7,8-PeCDF	2.02e+07	1.51 y	32:50	0.96	1100		2.50	-	*	
1,2,3,4,7,8-HxCDF	1.84e+07	1.25 y	37:13	1.18	1110		2.50	-	*	
1,2,3,6,7,8-HxCDF	2.00e+07	1.25 y	37:24	1.03	1130		2.50	-	*	
2,3,4,6,7,8-HxCDF	1.89e+07	1.25 y	38:20	1.17	1130		2.50	-	*	
1,2,3,7,8,9-HxCDF	2.46e+07	1.26 y	39:47	1.27	1140		2.50	-	*	
1,2,3,4,6,7,8-HpCDF	1.68e+07	1.04 y	42:17	1.36	1120		2.50	-	*	
1,2,3,4,7,8,9-HpCDF	1.43e+07	1.04 y	45:05	1.35	1110		2.50	-	*	
OCDF	2.30e+07	0.90 y	50:03	0.97	2350		2.50	-	*	
										Rec
13C-2,3,7,8-TCDD	3.24e+07	0.80 y	27:22	0.99	1920					96.7
13C-1,2,3,7,8-PeCDD	2.62e+07	1.61 y	33:14	0.79	1940					97.5
13C-1,2,3,4,7,8-HxCDD	2.54e+07	1.28 y	38:34	1.03	1890					95.2
13C-1,2,3,6,7,8-HxCDD	2.15e+07	1.29 y	38:44	0.96	1730					86.9
13C-1,2,3,4,6,7,8-HpCDD	1.88e+07	1.08 y	44:08	0.75	1930					97.2
13C-OCDD	2.86e+07	0.90 y	49:40	0.50	4360					110
13C-2,3,7,8-TCDF	4.96e+07	0.80 y	26:36	0.98	1930					97.2
13C-1,2,3,7,8-PeCDF	4.04e+07	1.58 y	31:30	0.78	1990					100.0
13C-2,3,4,7,8-PeCDF	3.79e+07	1.58 y	32:48	0.75	1920					96.6
13C-1,2,3,4,7,8-HxCDF	2.78e+07	0.53 y	37:11	1.05	2030					102
13C-1,2,3,6,7,8-HxCDF	3.40e+07	0.52 y	37:23	1.40	1860					93.9
13C-2,3,4,6,7,8-HxCDF	2.86e+07	0.53 y	38:19	1.16	1890					95.4
13C-1,2,3,7,8,9-HxCDF	3.36e+07	0.52 y	39:45	1.30	1990					100
13C-1,2,3,4,6,7,8-HpCDF	2.19e+07	0.45 y	42:15	0.83	2040					103
13C-1,2,3,4,7,8,9-HpCDF	1.90e+07	0.45 y	45:04	0.69	2100					106
13C-OCDF	4.03e+07	0.90 y	50:02	0.77	4020					101
37Cl-2,3,7,8-TCDD	9.66e+06		27:23	0.71	797					100
13C-1,2,3,4-TCDD	3.39e+07	0.80 y	26:48	-	63.1					
13C-1,2,3,4-TCDF	5.21e+07	0.80 y	25:30	-	69.1					
13C-1,2,3,7,8,9-HxCDD	2.59e+07	1.28 y	39:11	-	66.5					
Total Tetra-Dioxins	4.34e+06		22:57	1.15	232		2.50	-	*	22
Total Penta-Dioxins	1.60e+07		31:31	1.02	1190		2.50	-	*	5
Total Hexa-Dioxins	4.49e+07		37:31	1.10	3460		2.50	-	*	10
Total Hepta-Dioxins	1.15e+07		42:48	1.03	1180		2.50	-	*	17
Total Tetra-Furans	6.17e+06		24:09	1.09	227		2.50	-	*	16
1st Fn. Tot Penta-Furans	2.49e+05		22:52	0.96	13.2		2.50	-	*	PeCDF 34
Total Penta-Furans	4.27e+07		30:02	0.96	2250		2.50	-	*	2270 12
Total Hexa-Furans	8.23e+07		35:33	1.16	4530		2.50	-	*	11
Total Hepta-Furans	3.16e+07		42:17	1.36	2260		2.50	-	*	16

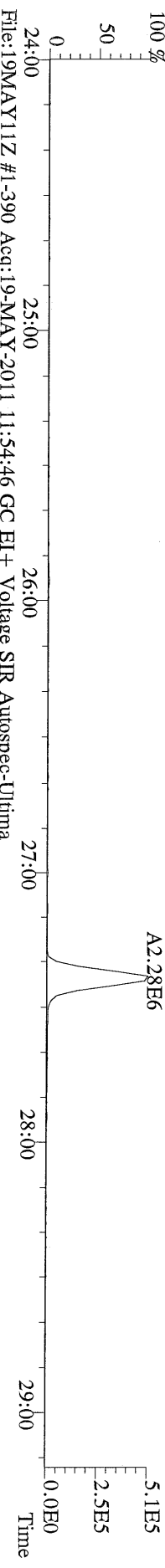
Analyst: J

Date: 5/19/11

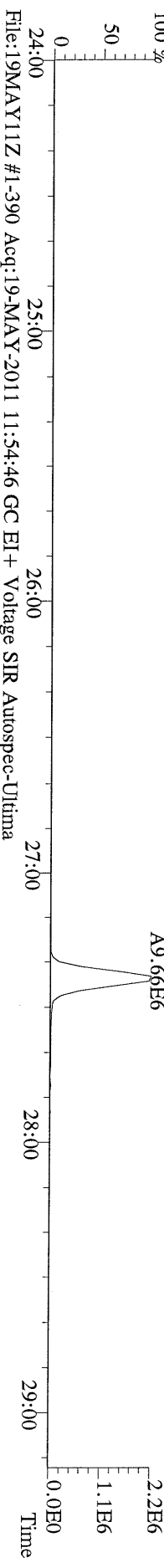
File:19MAY11Z #1-390 Acq:19-MAY-2011 11:54:46 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Fronter Analytical Laboratory



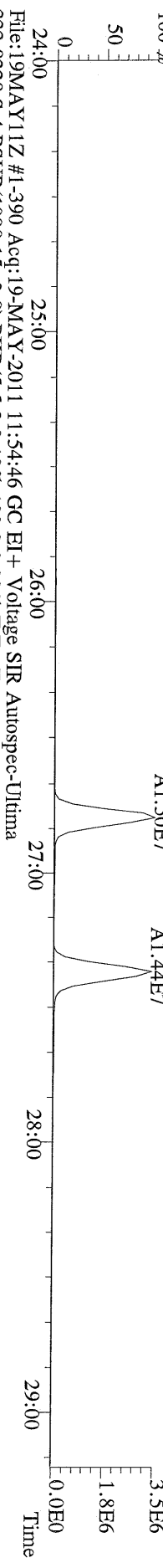
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321.8936 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Fronter Analytical Laboratory



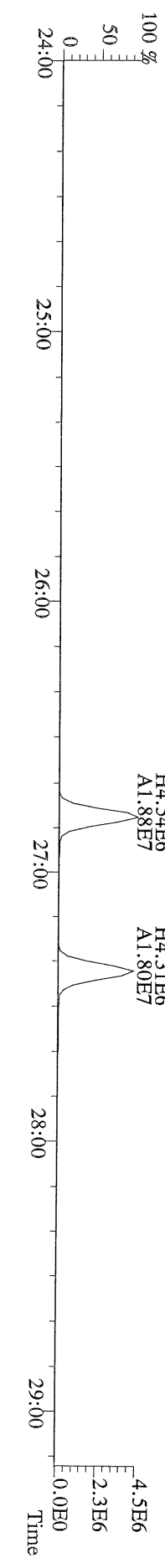
File:19MAY11Z #1-390 Acq:19-MAY-2011 11:54:46 GC EI + Voltage SIR Autospec-Ultima
327.8847 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Fronter Analytical Laboratory



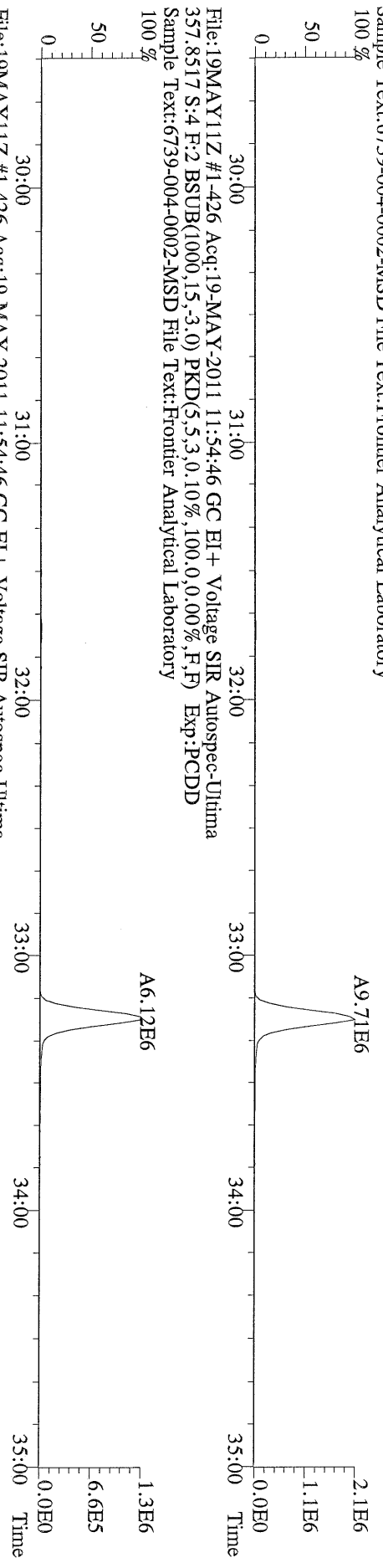
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331.9368 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Fronter Analytical Laboratory



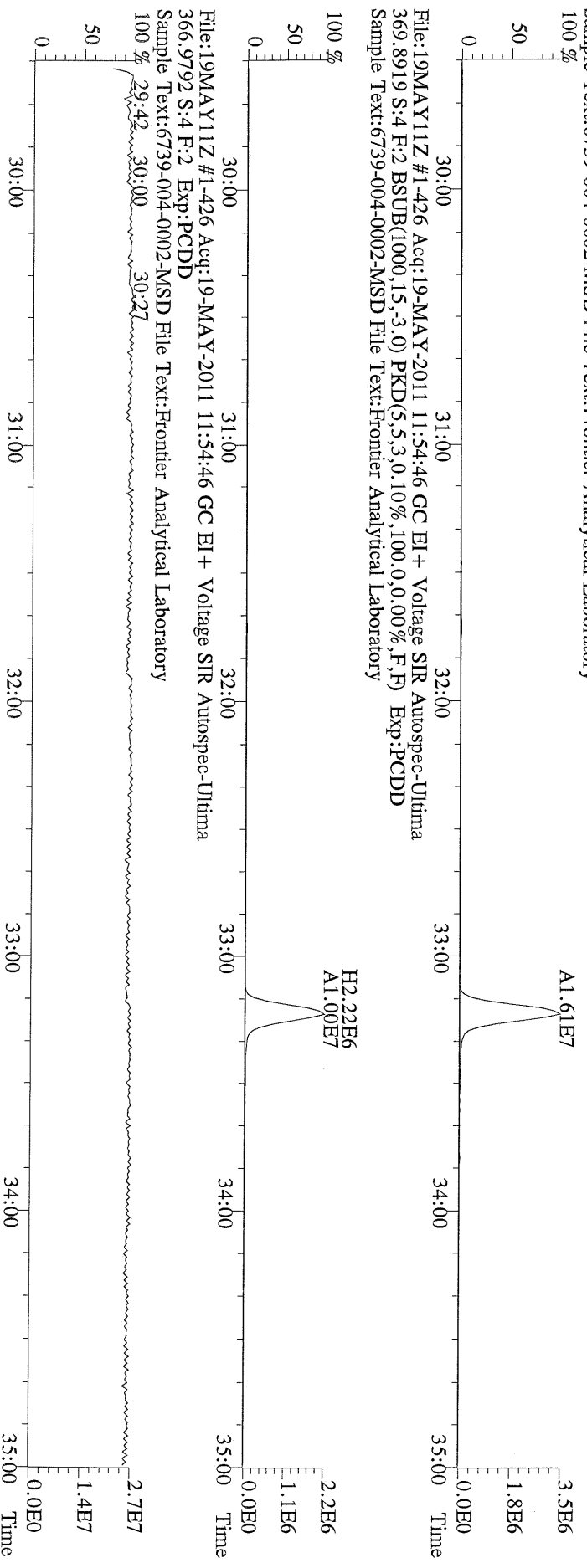
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333.9339 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Fronter Analytical Laboratory



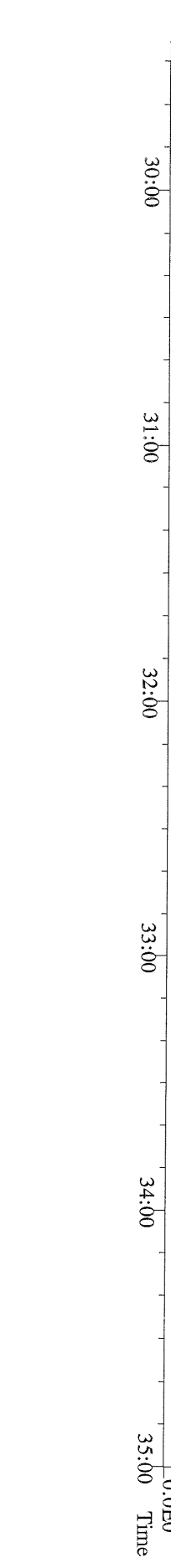
File:19MAYY11Z #1-426 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



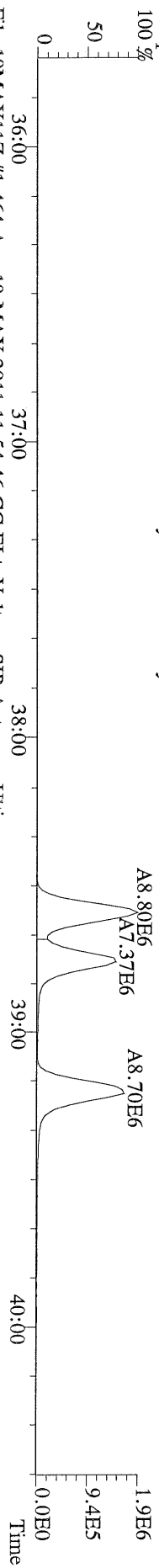
File:19MAYY11Z #1-426 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



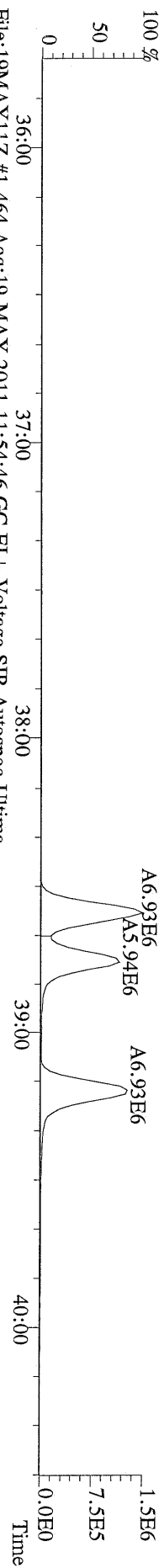
File:19MAYY11Z #1-426 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:4 F:2 Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



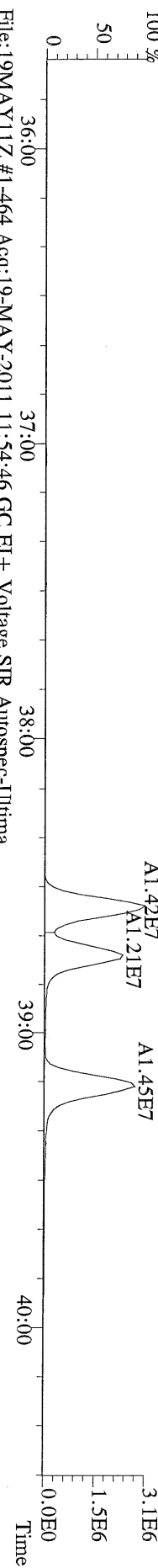
File:19MAY11Z #1-464 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



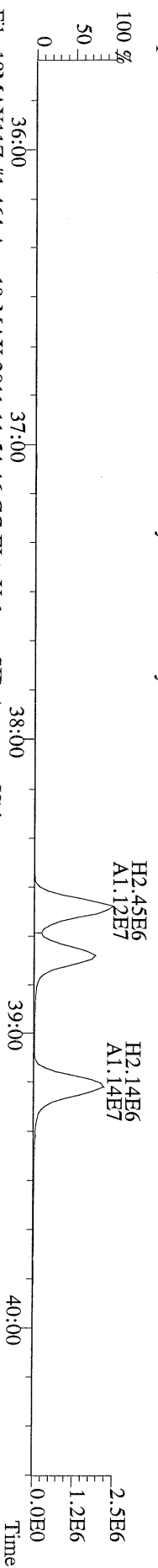
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391.8127 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



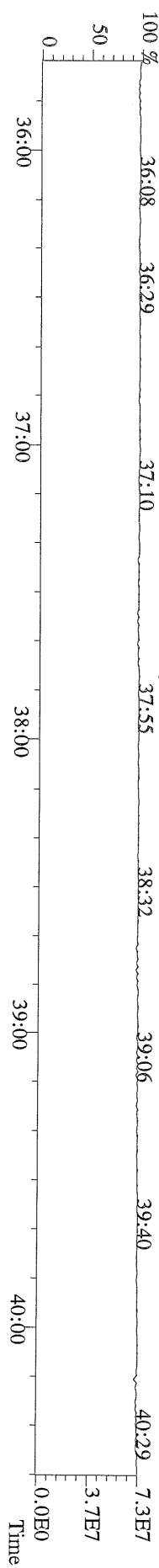
File:19MAY11Z #1-464 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



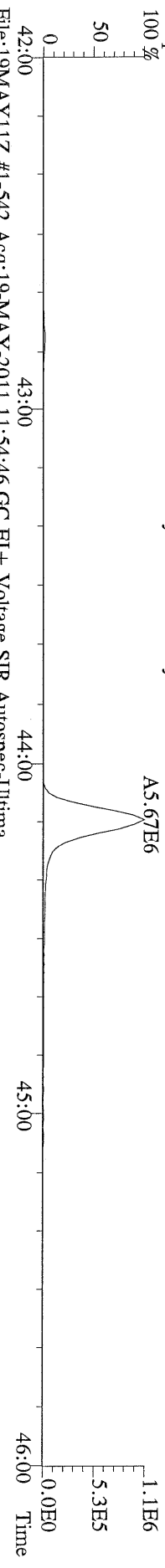
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403.8530 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



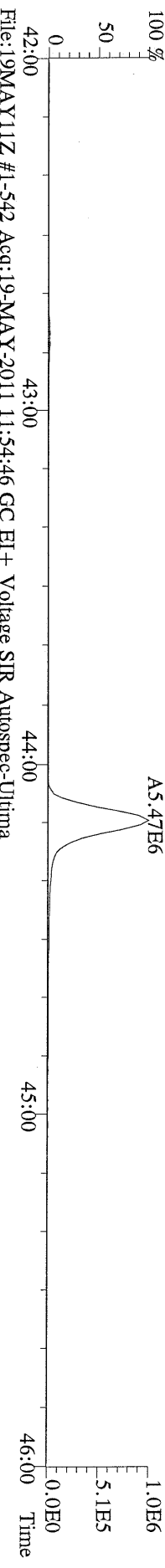
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380.9760 S:4 F:3 Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



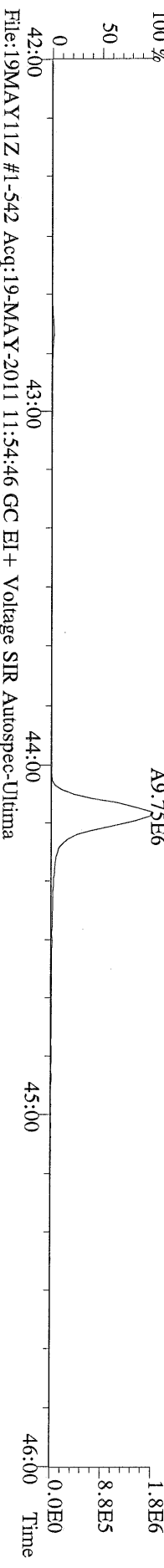
File:19MAYY11Z #1-542 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



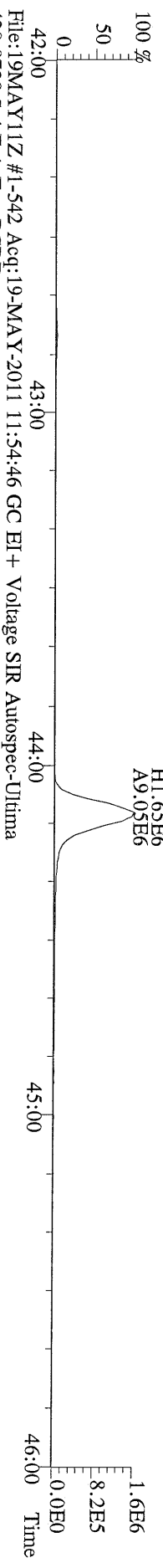
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425.7737 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



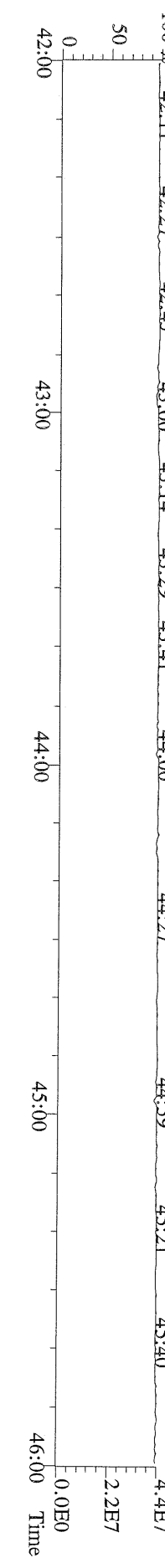
File:19MAYY11Z #1-542 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



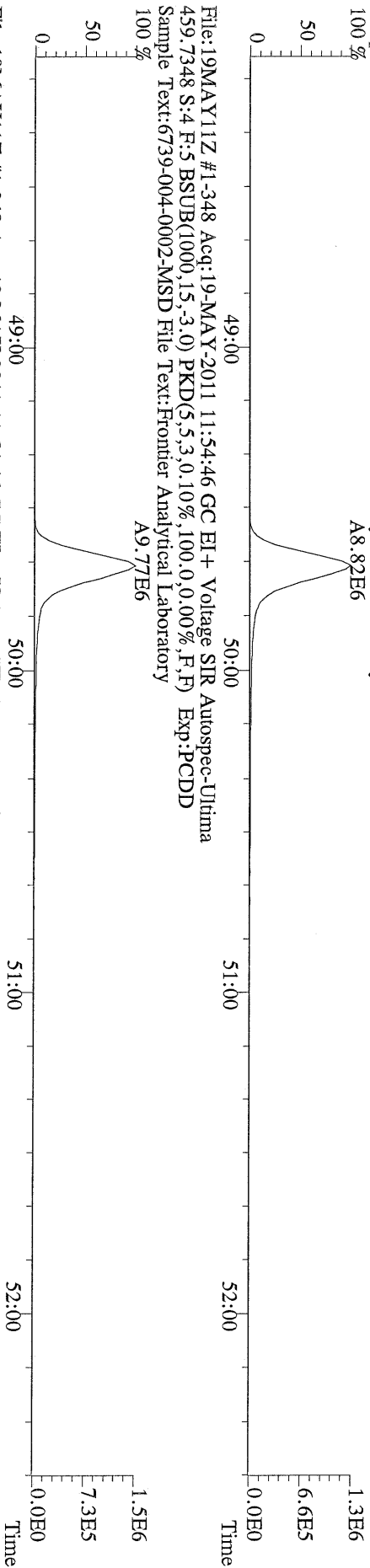
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437.8140 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



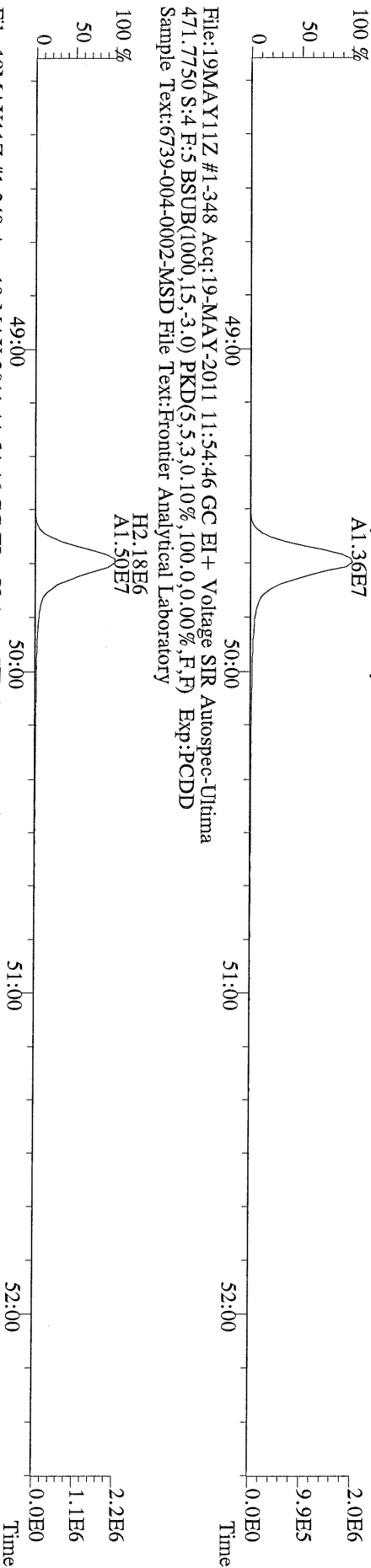
File:19MAYY11Z #1-542 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:4 F:4 Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



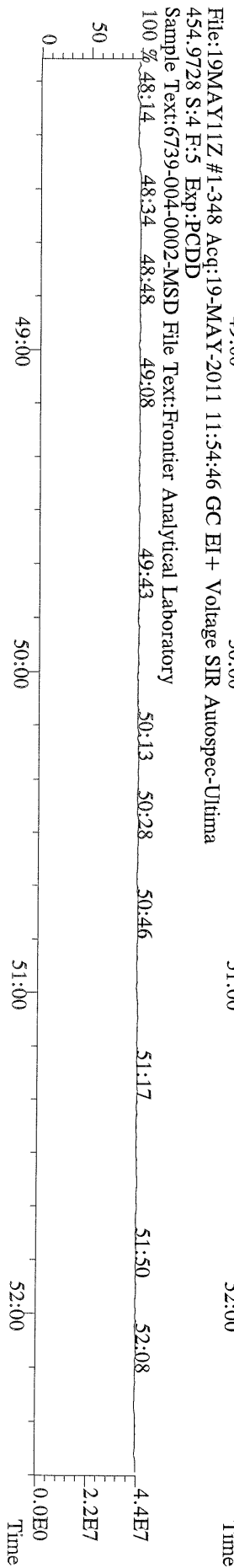
File:19MAY11Z #1-348 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-348 Acq:19-MAY-2011 11:54:46 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:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



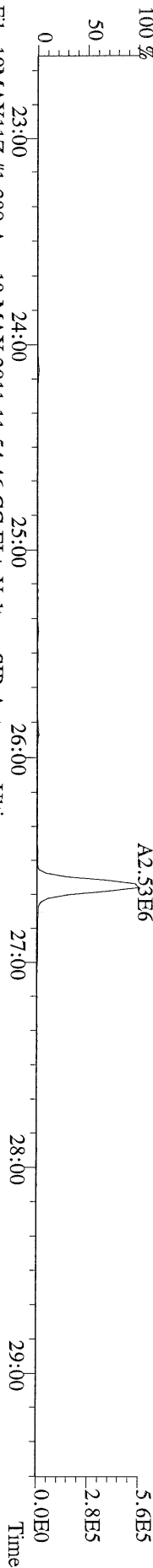
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471.7750 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



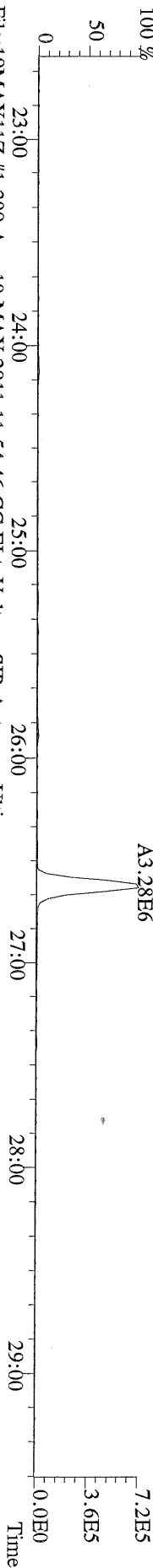
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454.9728 S:4 F:5 Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



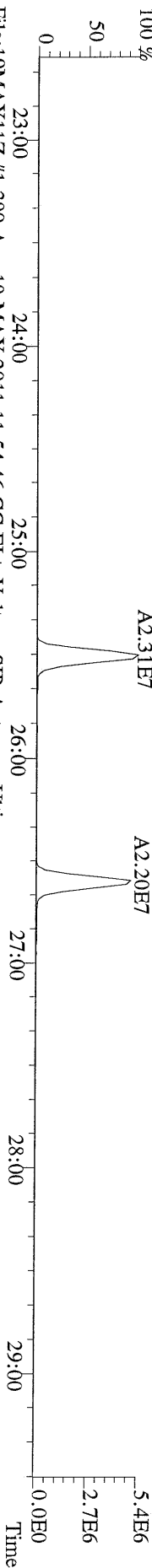
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303.9016 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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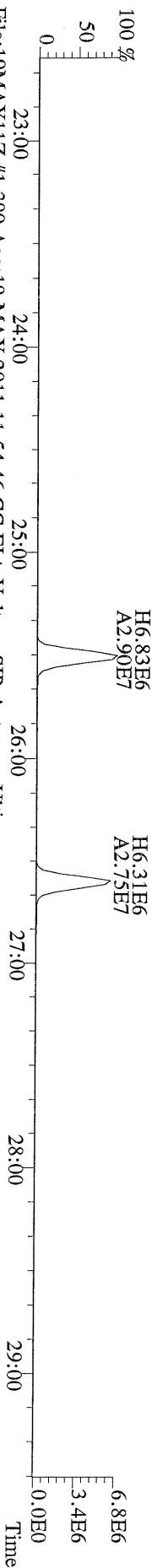
File:19MAY11Z #1-390 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



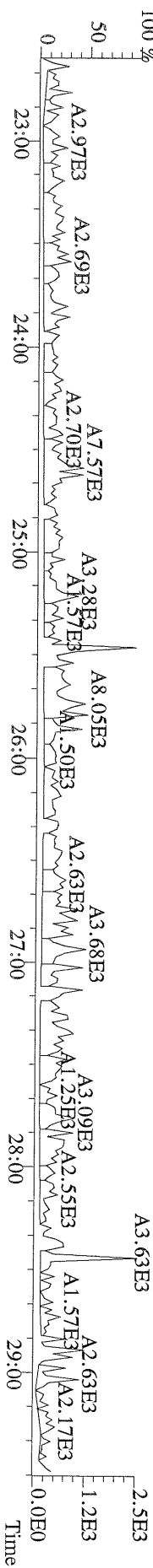
File:19MAY11Z #1-390 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



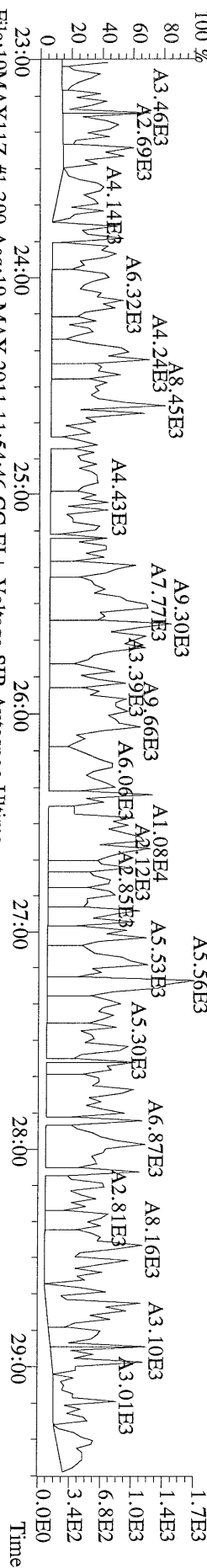
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317.9389 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



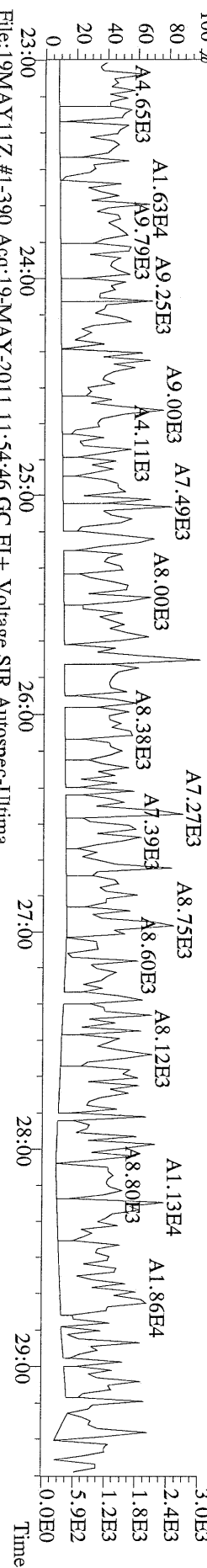
File:19MAY11Z #1-390 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



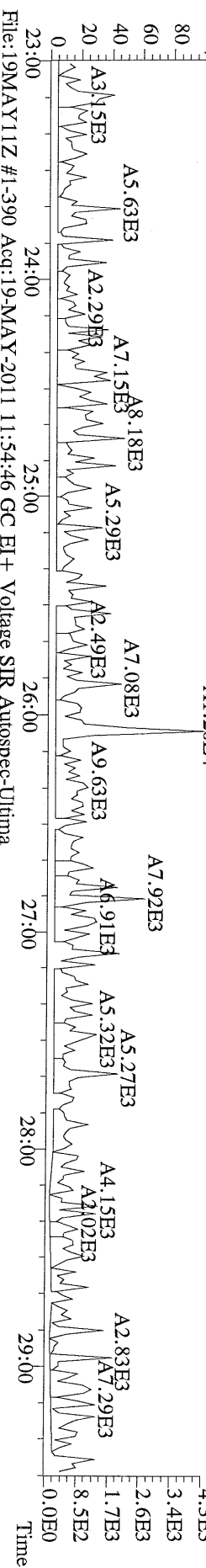
File:19MAY11Z #1-390 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
 Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



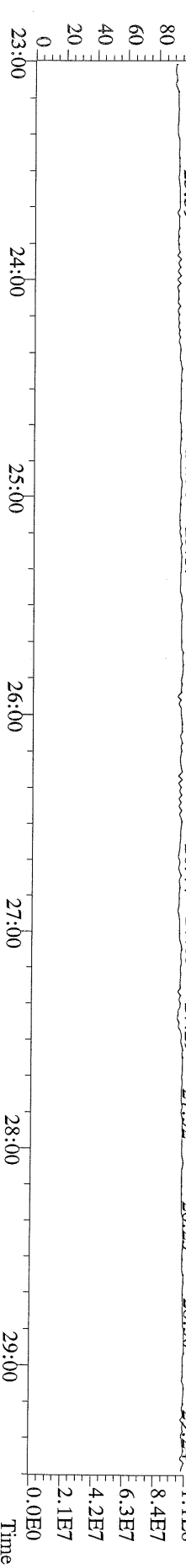
File:19MAY11Z #1-390 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
 Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



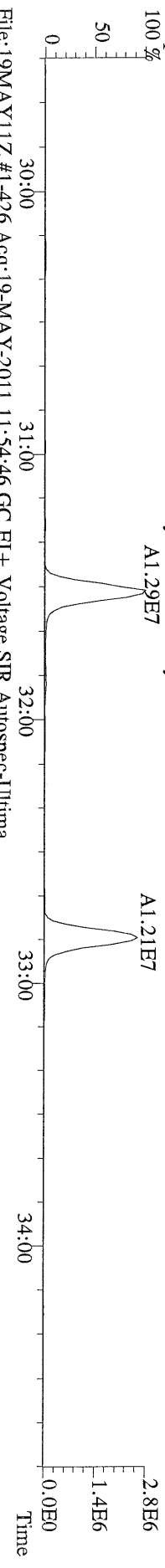
File:19MAY11Z #1-390 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
 Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



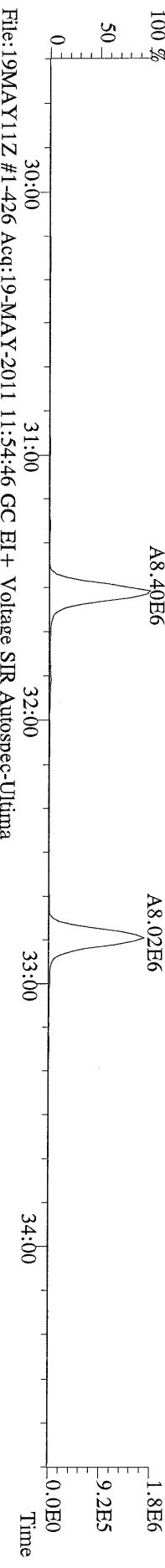
File:19MAY11Z #1-390 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S:4 Exp:PCDD
 Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



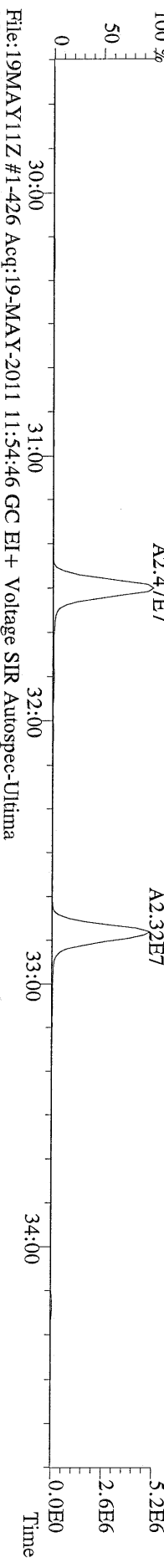
File: 19MAY11Z #1-426 Acq: 19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:4 F:2 BSUB(1000,15,3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text: 6739-004-0002-MSD File Text: Frontier Analytical Laboratory



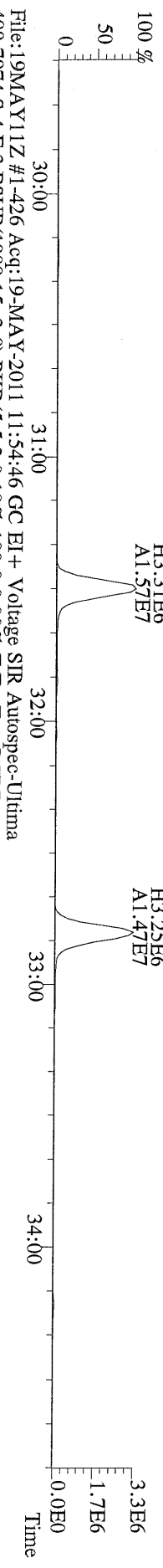
File: 19MAY11Z #1-426 Acq: 19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:4 F:2 BSUB(1000,15,3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text: 6739-004-0002-MSD File Text: Frontier Analytical Laboratory



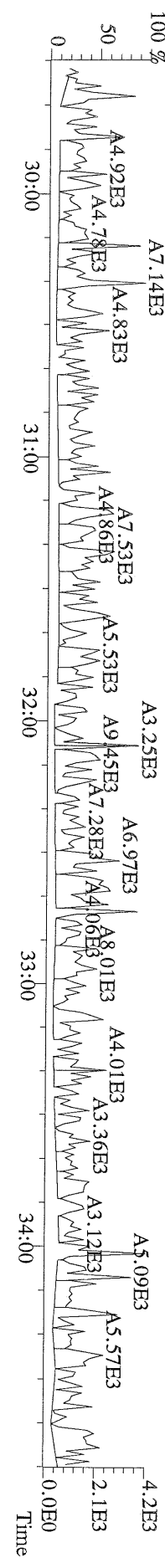
File: 19MAY11Z #1-426 Acq: 19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:4 F:2 BSUB(1000,15,3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text: 6739-004-0002-MSD File Text: Frontier Analytical Laboratory



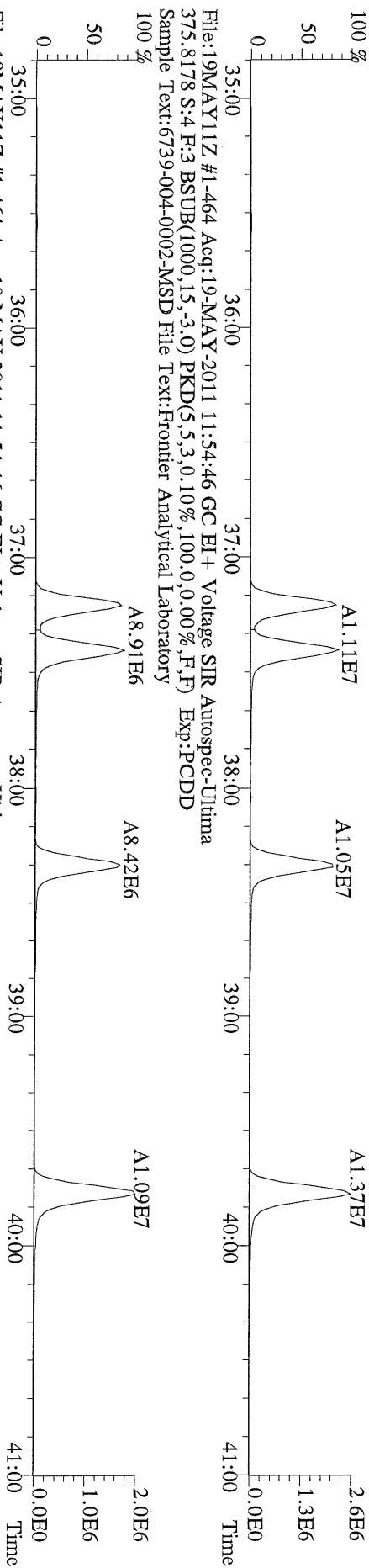
File: 19MAY11Z #1-426 Acq: 19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:4 F:2 BSUB(1000,15,3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text: 6739-004-0002-MSD File Text: Frontier Analytical Laboratory



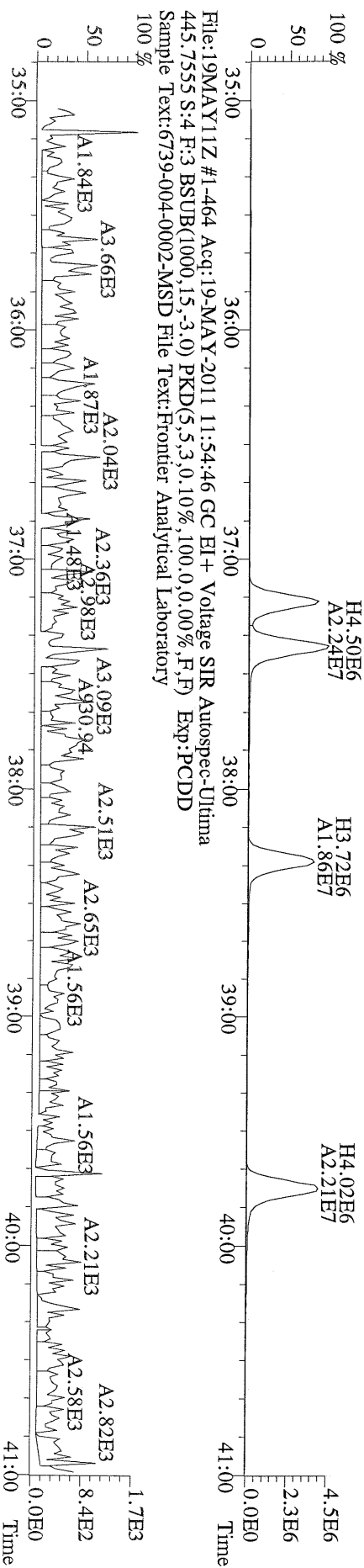
File: 19MAY11Z #1-426 Acq: 19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:4 F:2 BSUB(1000,15,3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text: 6739-004-0002-MSD File Text: Frontier Analytical Laboratory



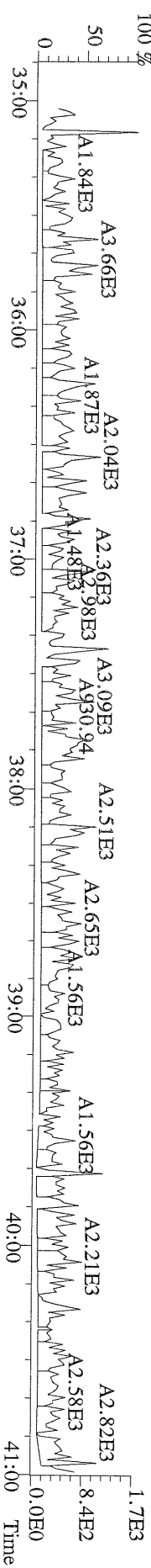
File:19MAY11Z #1-464 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



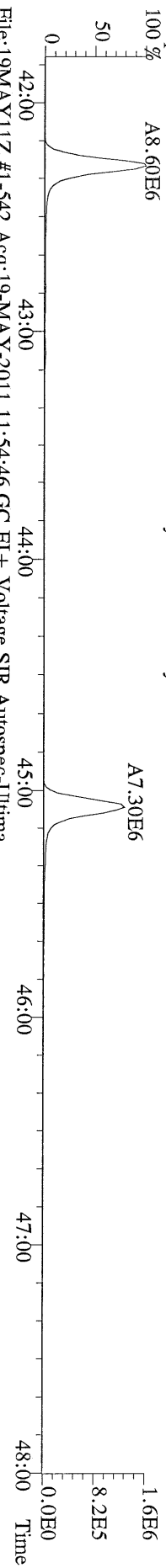
File:19MAY11Z #1-464 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



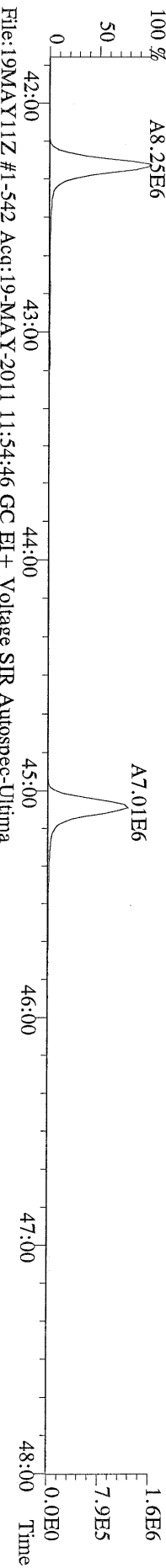
File:19MAY11Z #1-464 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



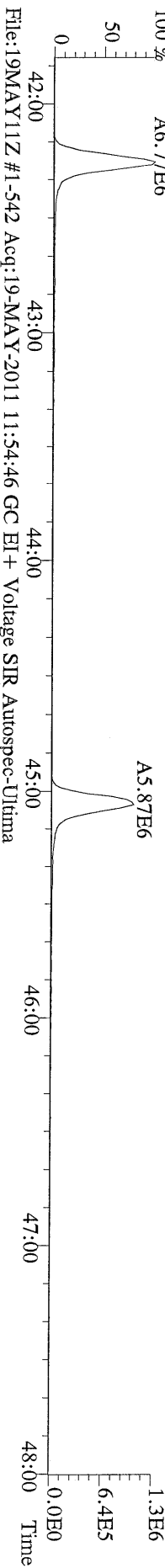
File:19MAYY11Z #1-542 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:4 F:4 B SUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



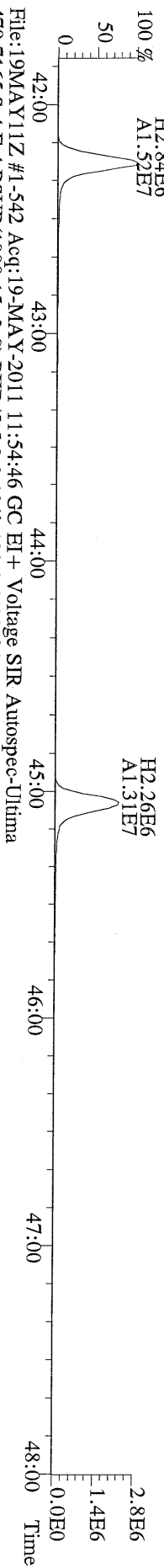
File:19MAYY11Z #1-542 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 409.7788 S:4 F:4 B SUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



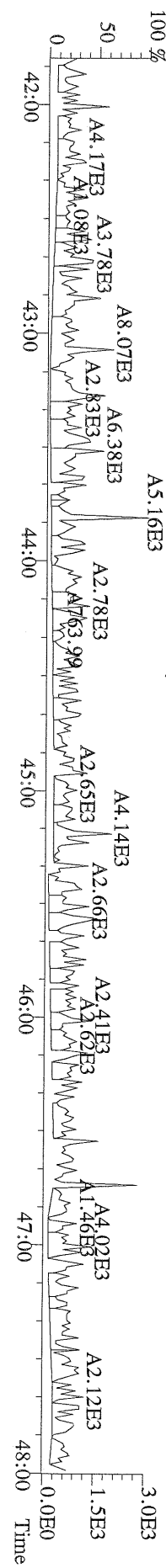
File:19MAYY11Z #1-542 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 417.8253 S:4 F:4 B SUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



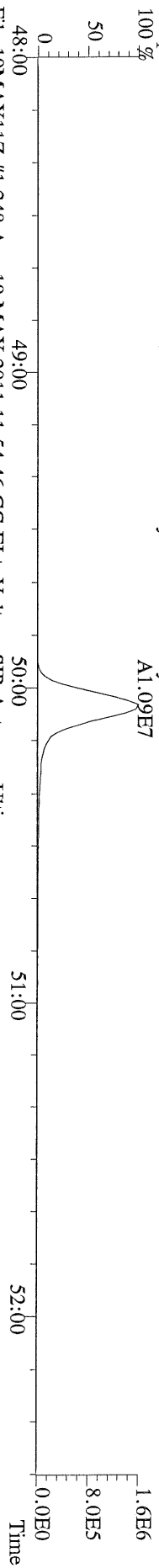
File:19MAYY11Z #1-542 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 419.8220 S:4 F:4 B SUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



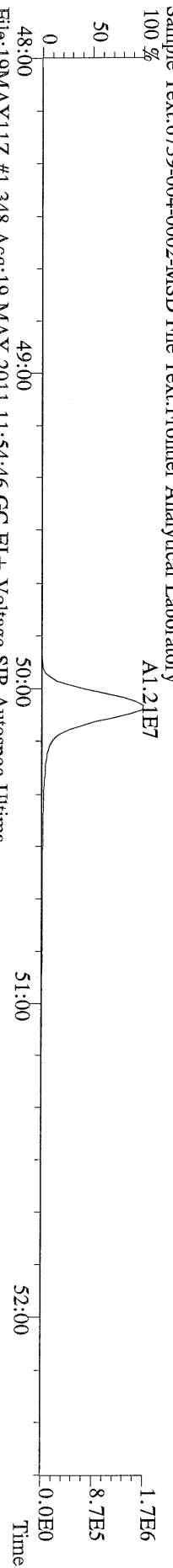
File:19MAYY11Z #1-542 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 479.7165 S:4 F:4 B SUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



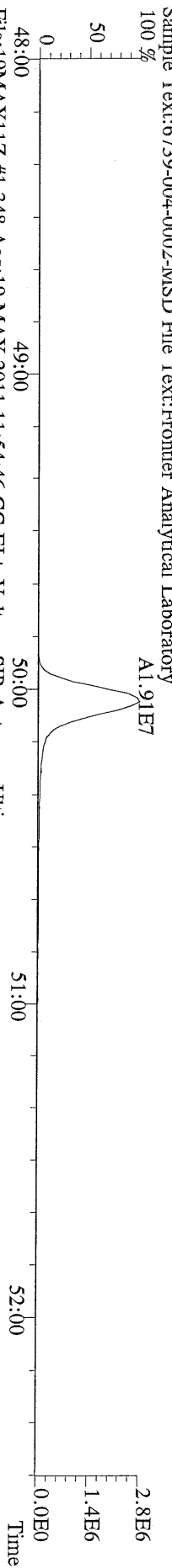
File:19MAY11Z #1-348 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100%



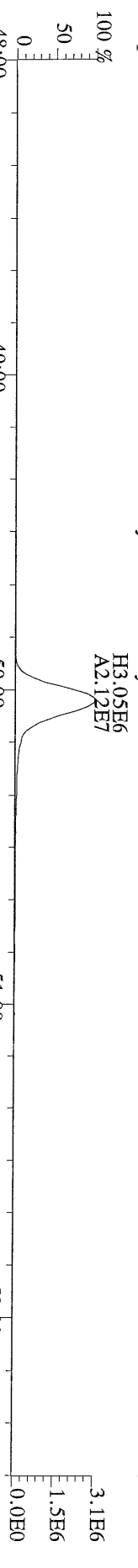
File:19MAY11Z #1-348 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100%



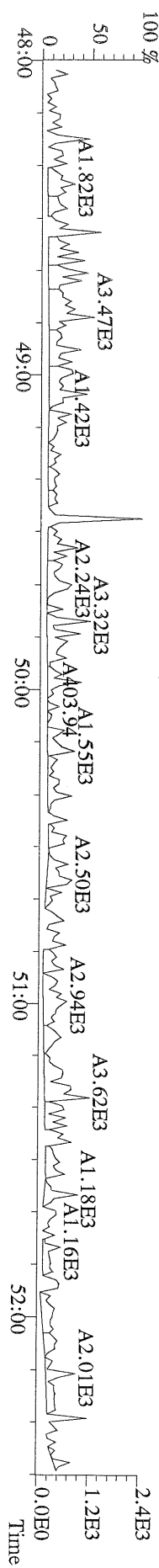
File:19MAY11Z #1-348 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100%



File:19MAY11Z #1-348 Acq:19-MAY-2011 11:54:46 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:6739-004-0002-MSD File Text:Frontier Analytical Laboratory




File:19MAY11Z #1-348 Acq:19-MAY-2011 11:54:46 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:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100%



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:

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:

Date: 5/17/11

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

	RELATIVE RESPONSE (RR)						MEAN	Cv
	CS1	CS2	CS3	CS4	CS5	CS6	RR	(%RSD)
NATIVE ANALYTES								
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: JDate: 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

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	ION	QC	ACCEPT	CONC. FOUND	CONC.
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			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: 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
TCDD 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
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.976-1.043
37Cl-2,3,7,8-TCDD		1.023	0.989-1.052

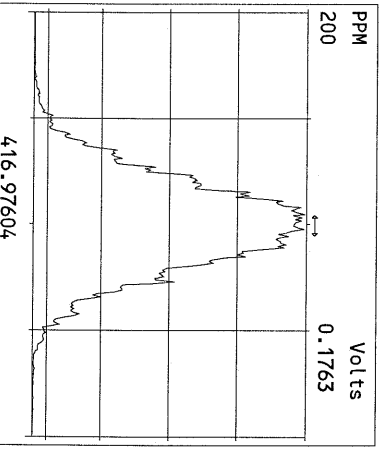
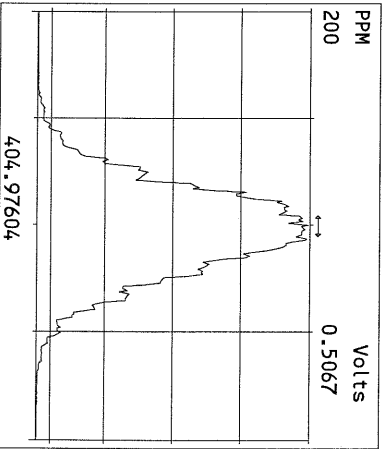
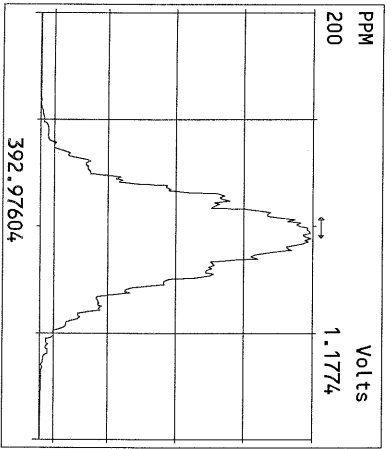
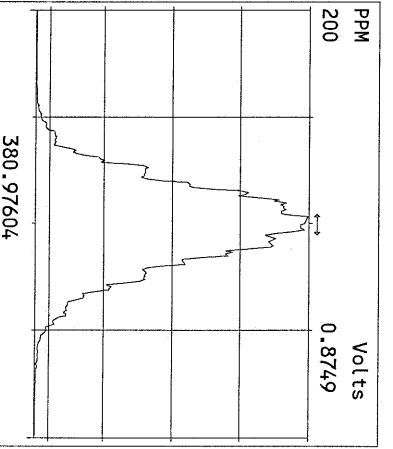
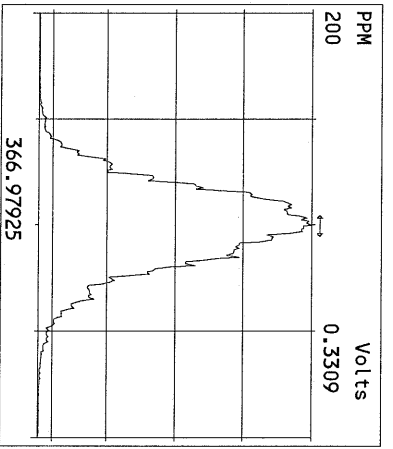
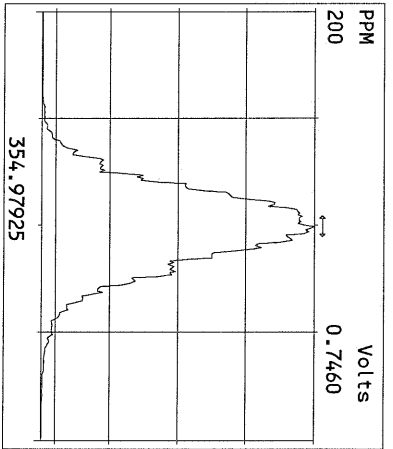
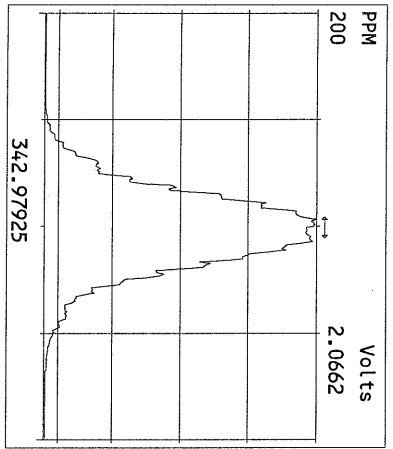
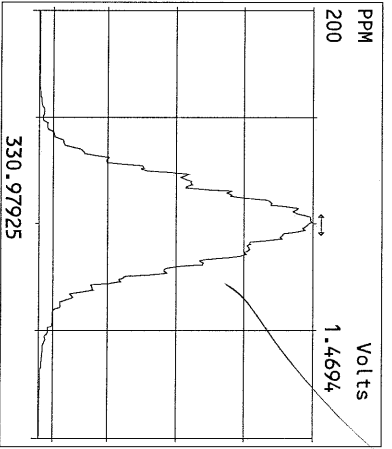
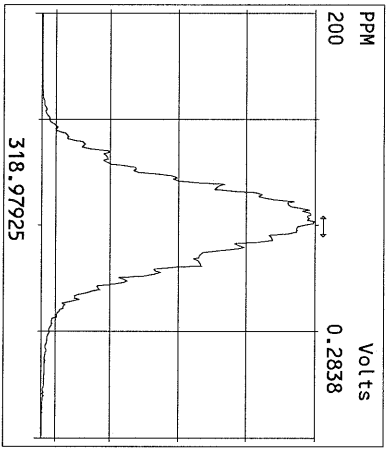
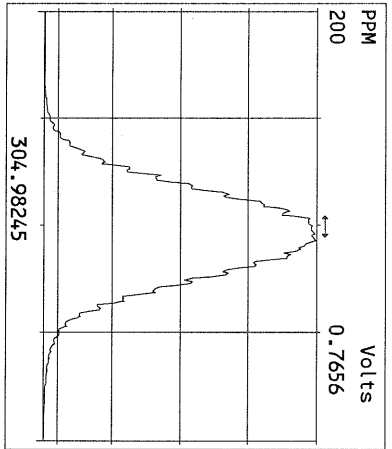
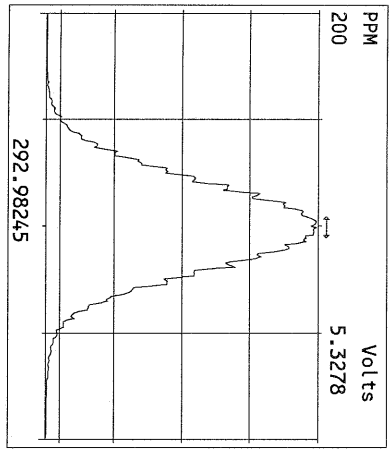
(1) Contract-required limits for Relative Retention Times (RRT) as specified
in Table 2, Method 1613.

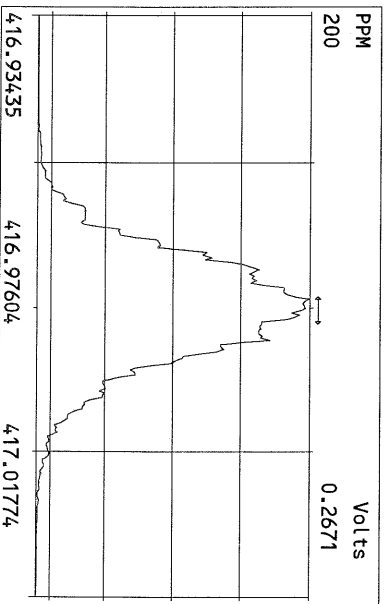
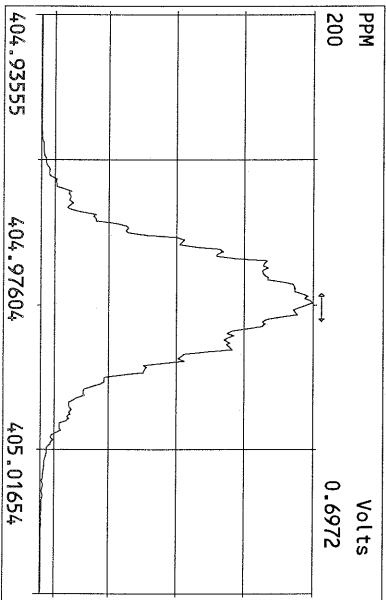
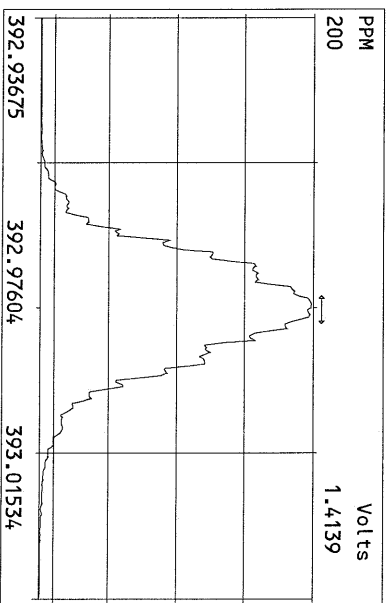
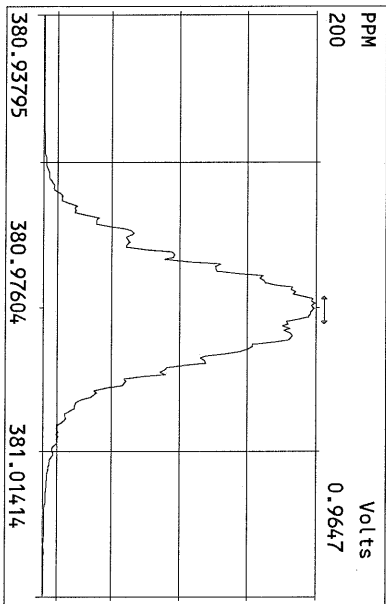
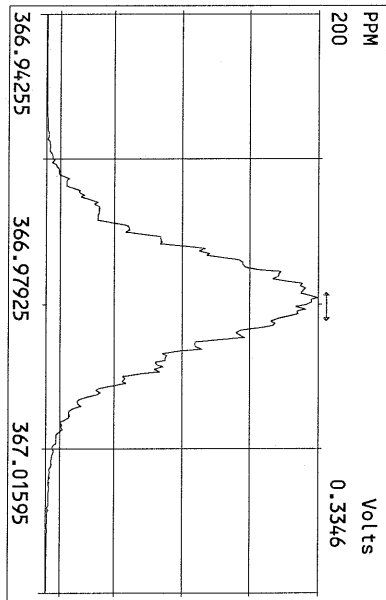
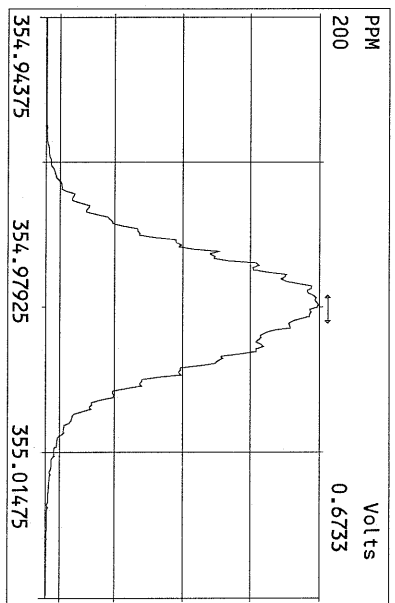
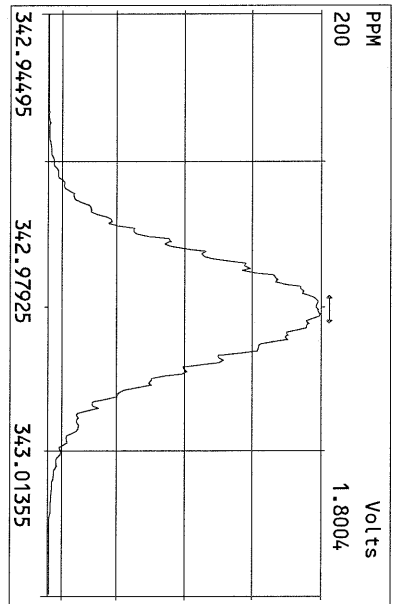
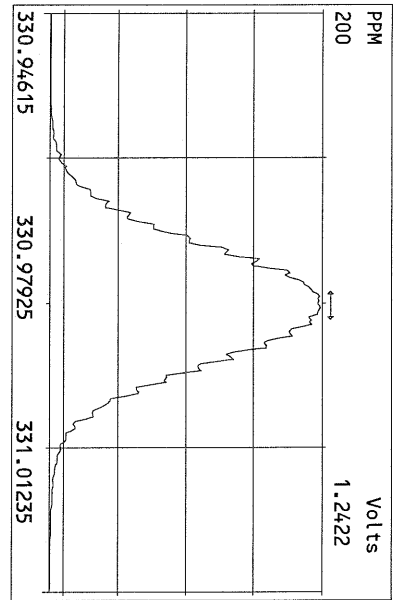
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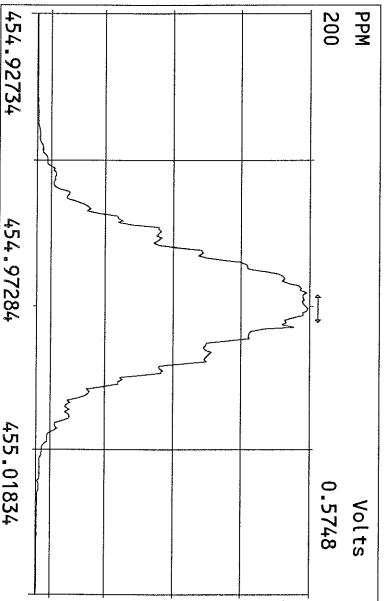
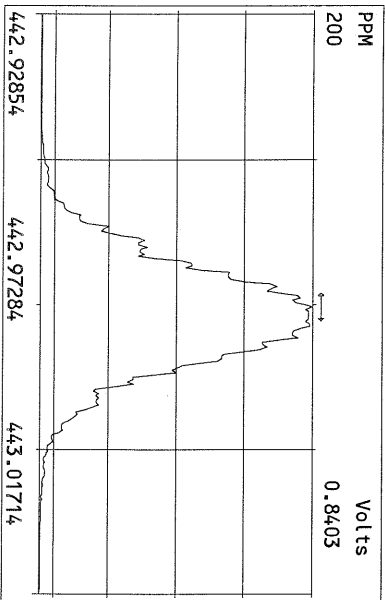
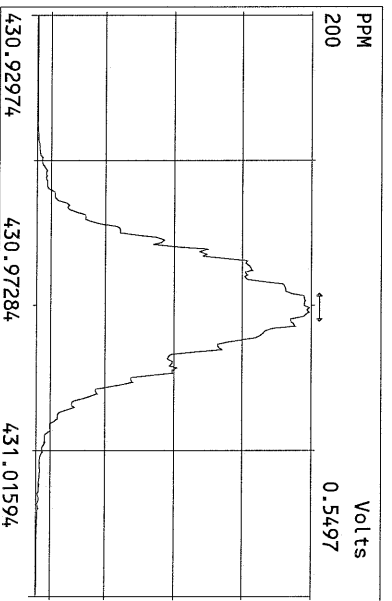
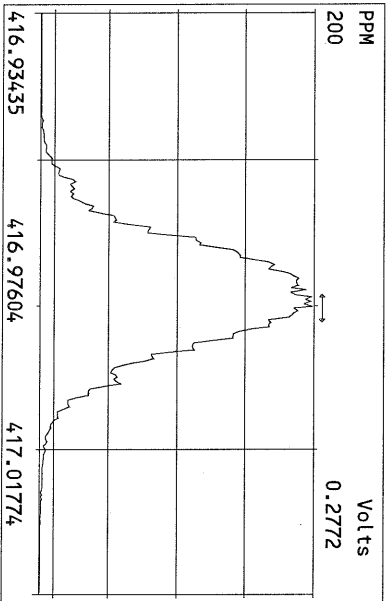
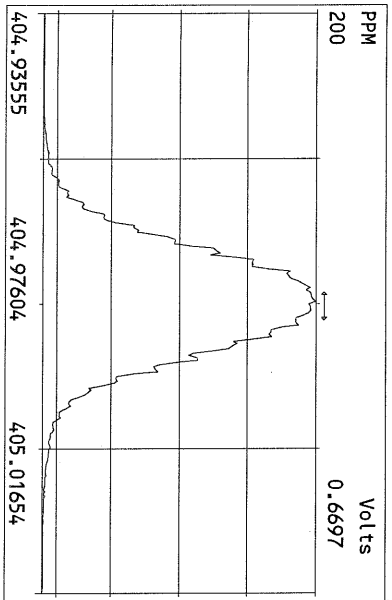
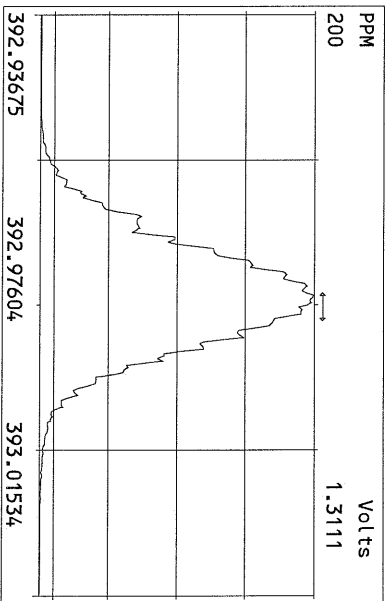
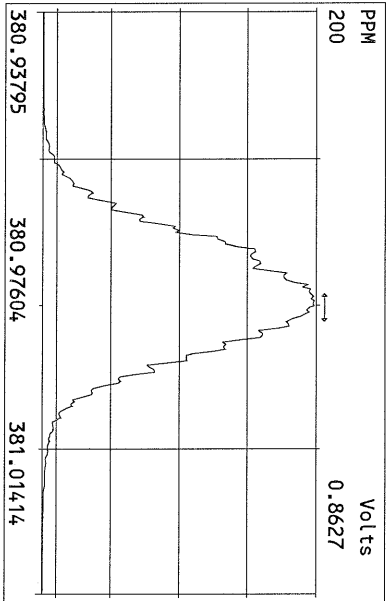
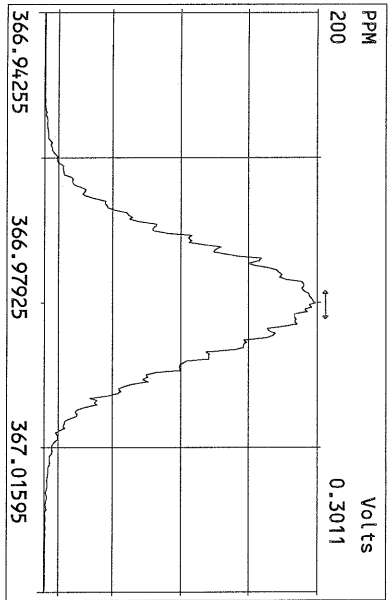
Date: 5/18/11

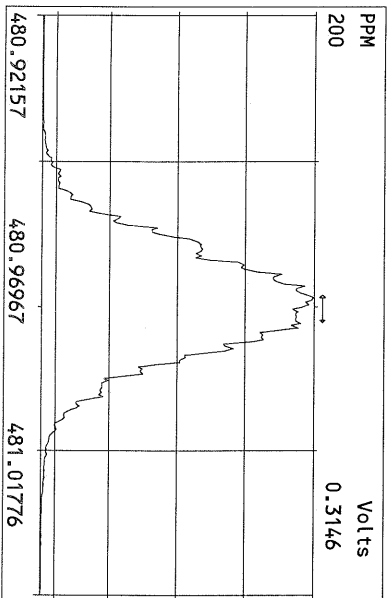
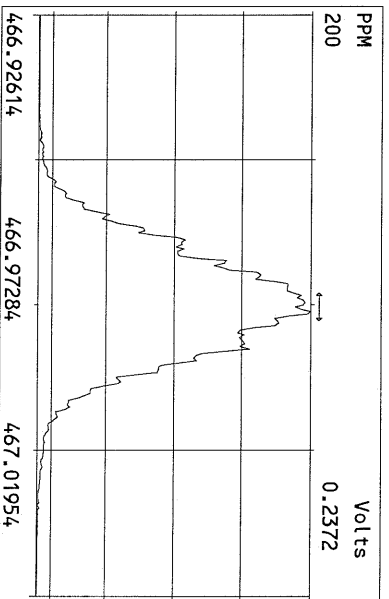
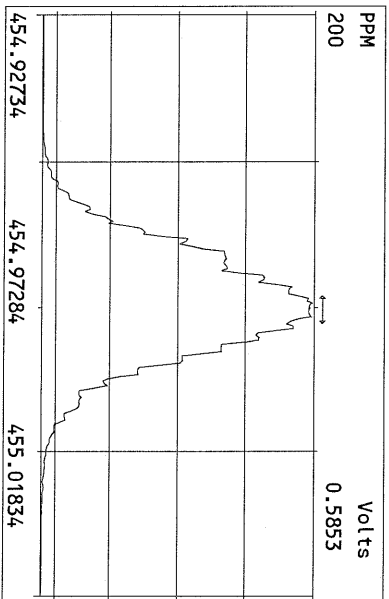
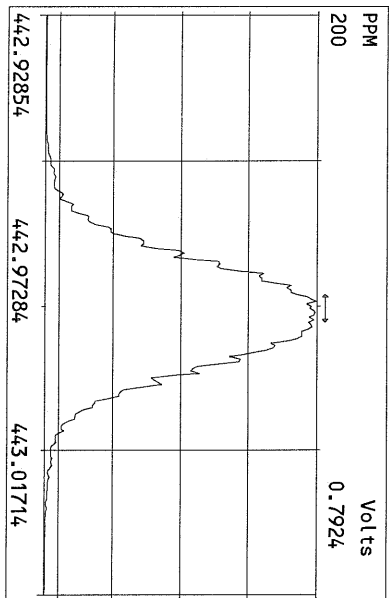
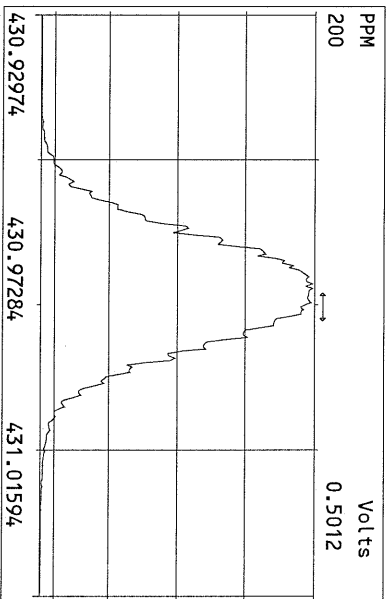
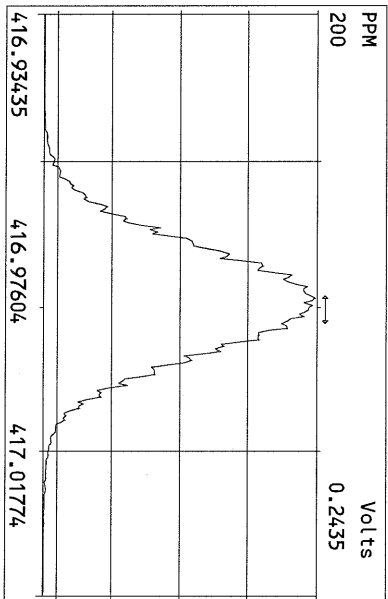
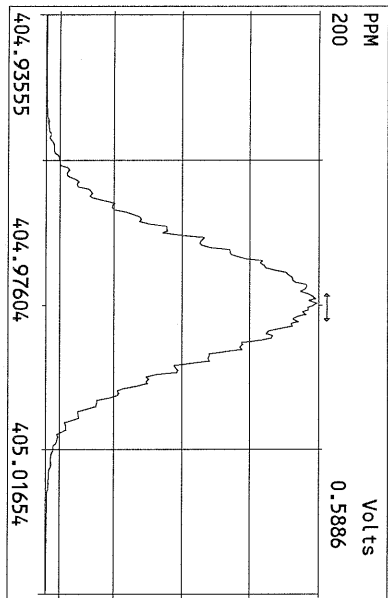
Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	
2,3,7,8-TCDD	6.55e+06	0.79 y	27:28	1.15	10.5		2.50	-	*	
1,2,3,7,8-PeCDD	2.32e+07	1.57 y	33:19	1.02	49.8		2.50	-	*	
1,2,3,4,7,8-HxCDD	2.22e+07	1.25 y	38:39	1.09	48.7		2.50	-	*	
1,2,3,6,7,8-HxCDD	2.18e+07	1.27 y	38:50	1.08	50.7		2.50	-	*	
1,2,3,7,8,9-HxCDD	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	-	*	
									Rec	
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

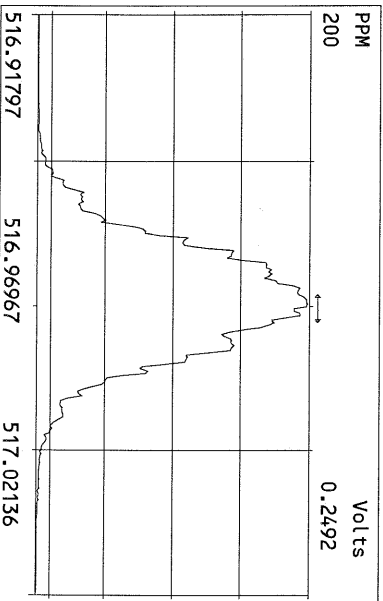
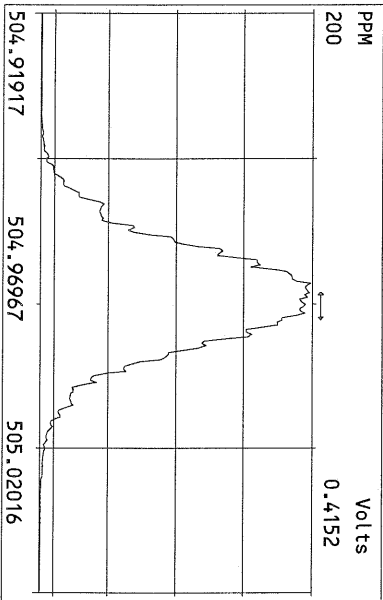
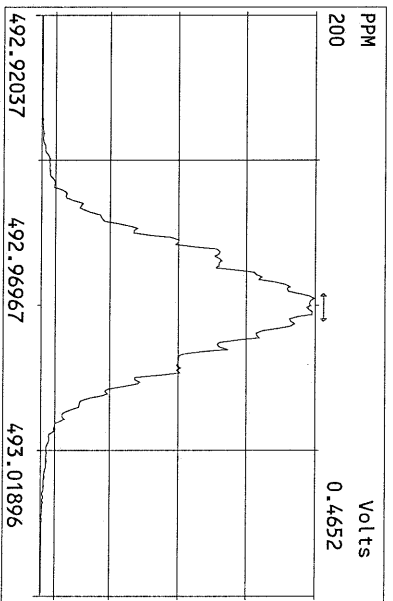
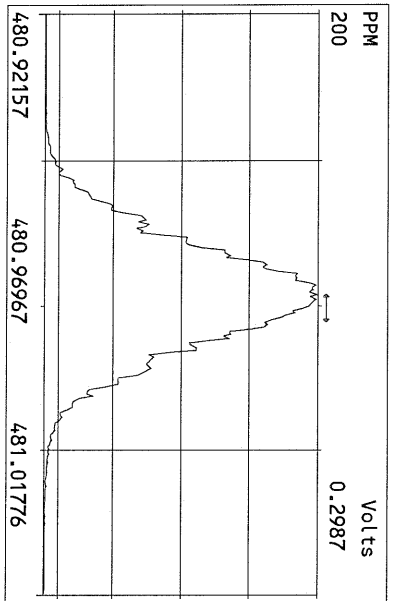
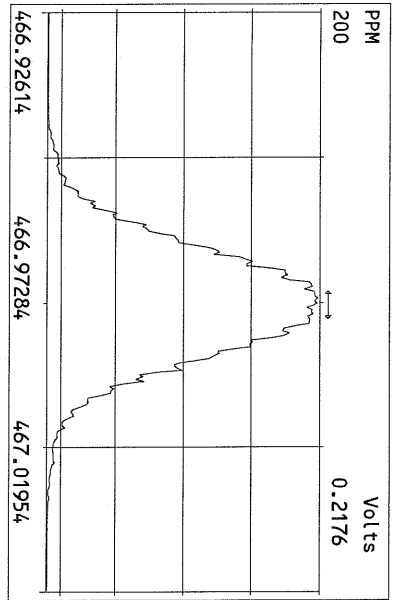
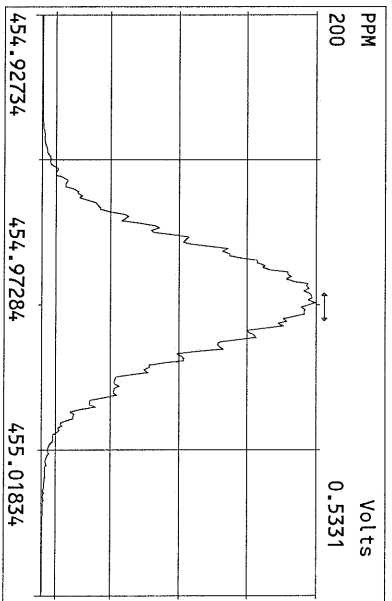
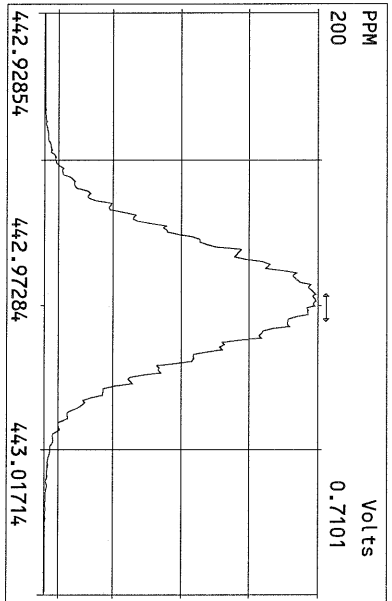
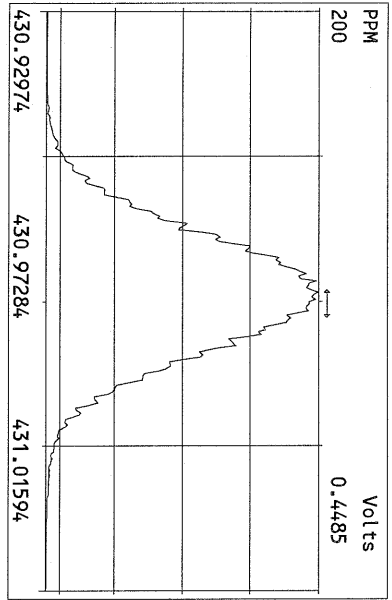
Analyst:  Date: 5/18/11



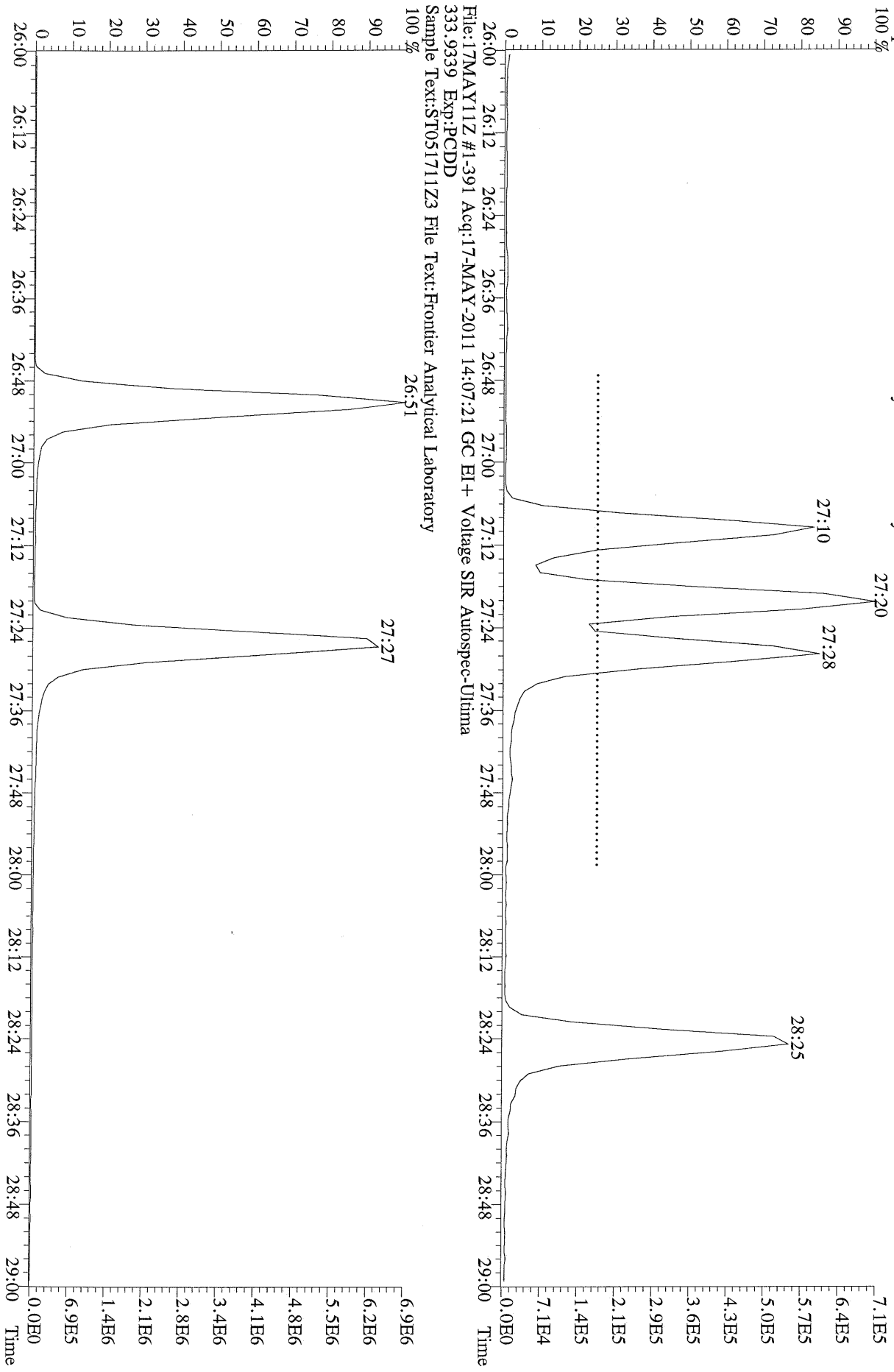






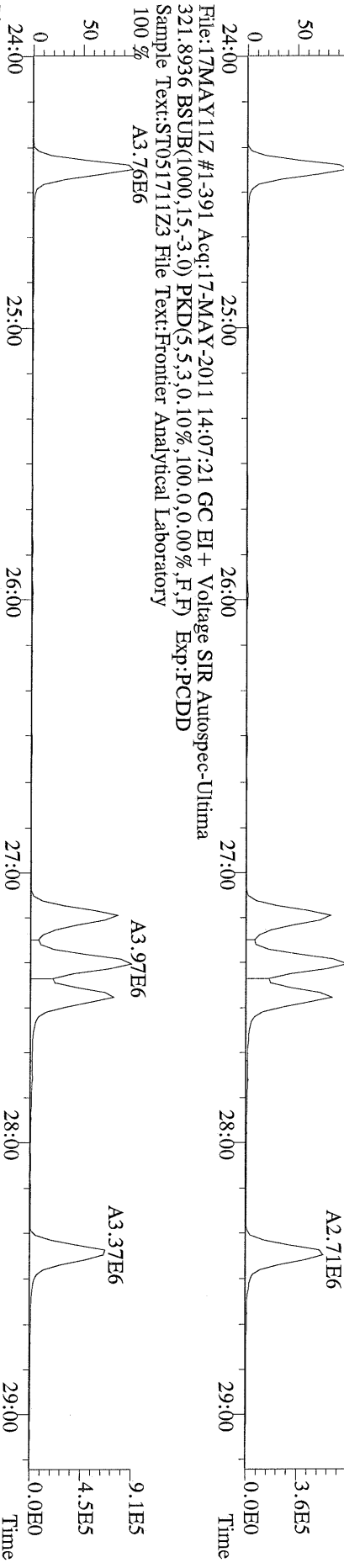


File:17MAY11Z #1-391 Acq:17-MAY-2011 14:07:21 GC EI+ Voltage SIR Autospec-Utima
319.8965 Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %

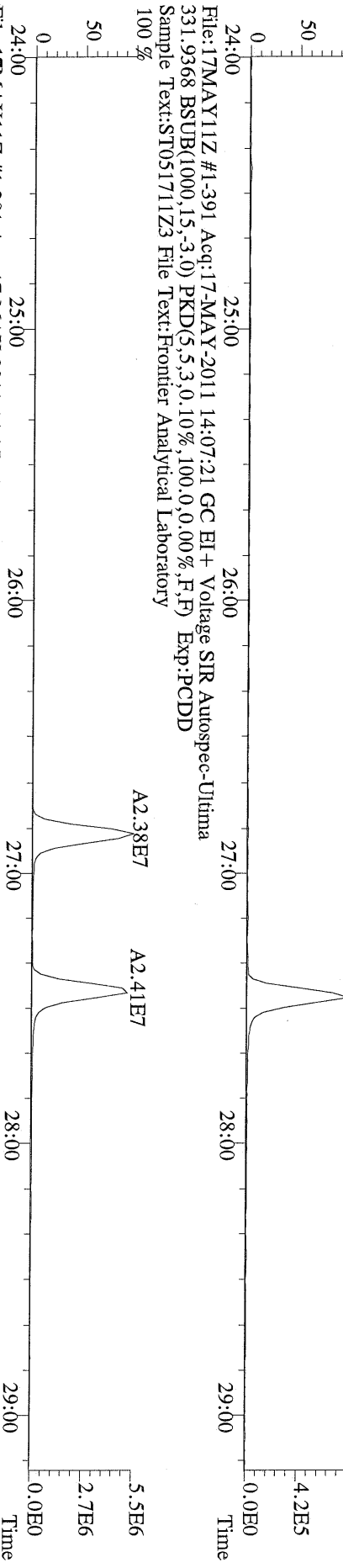


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333.9339 Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %

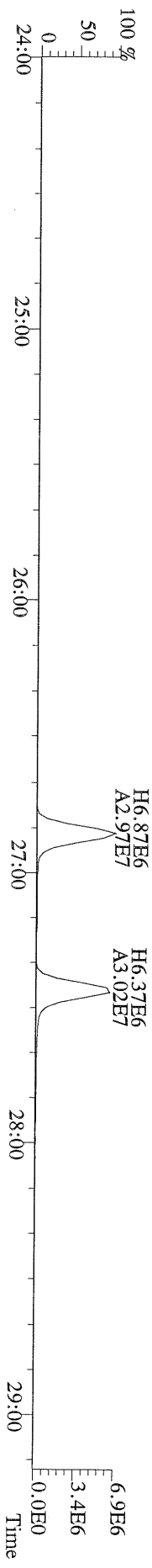
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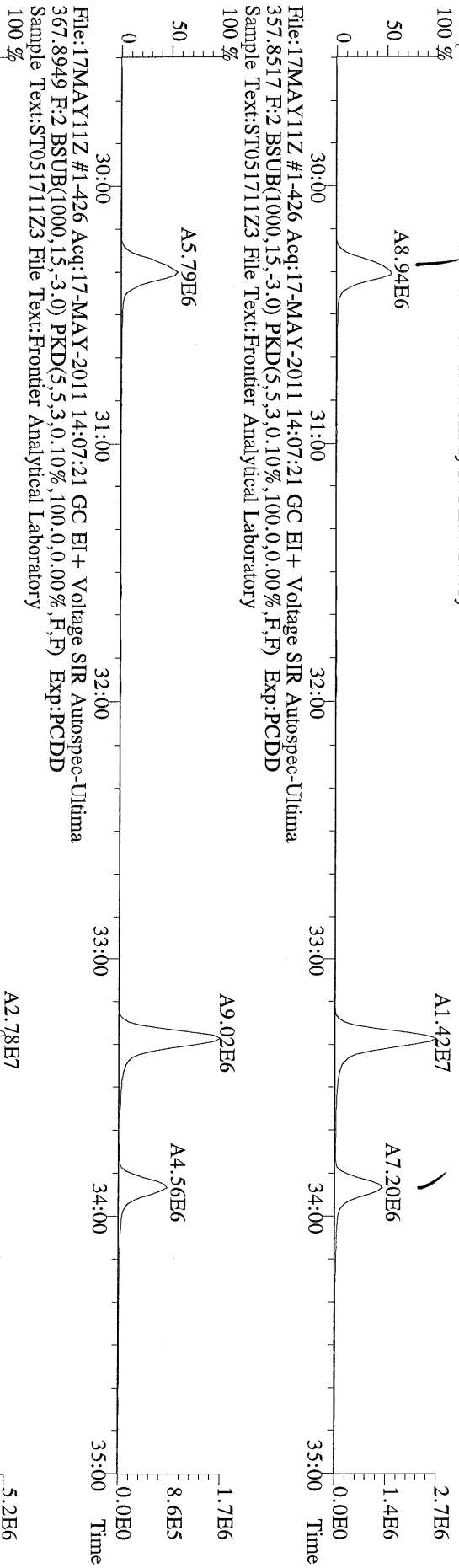
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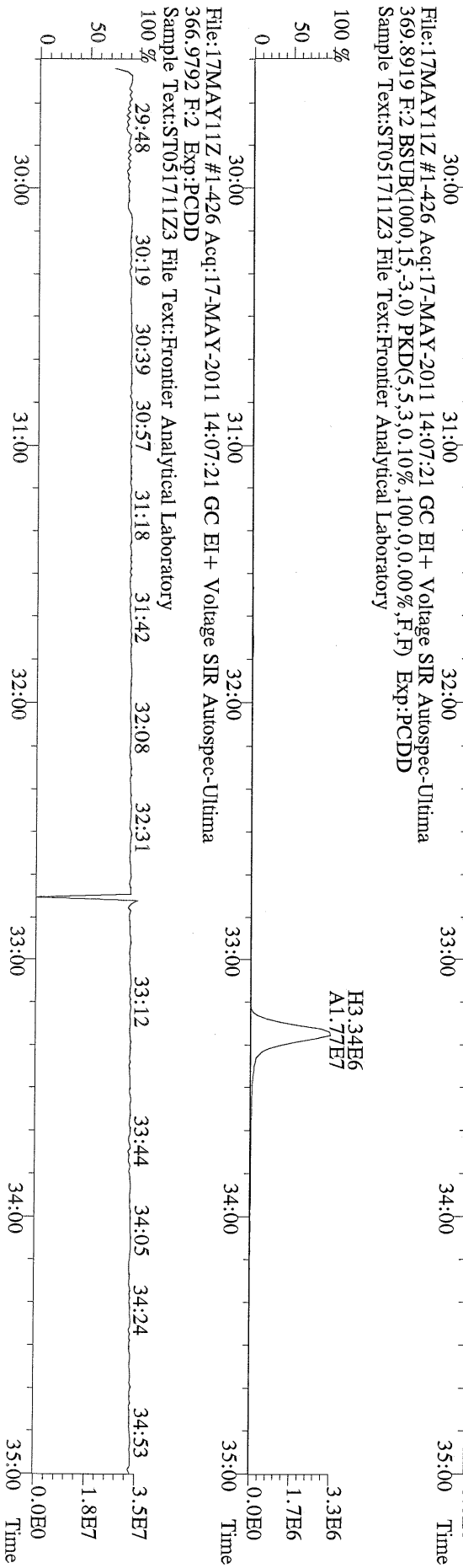
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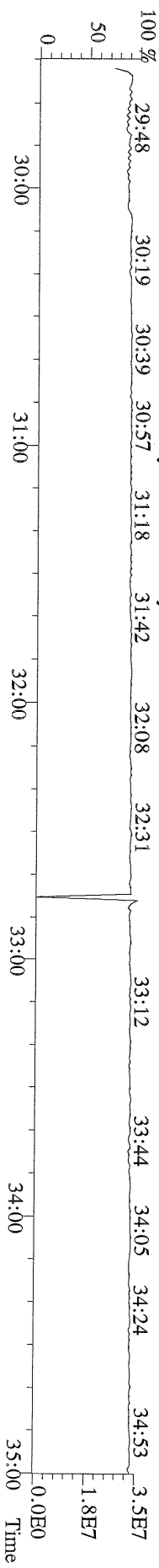
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Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %



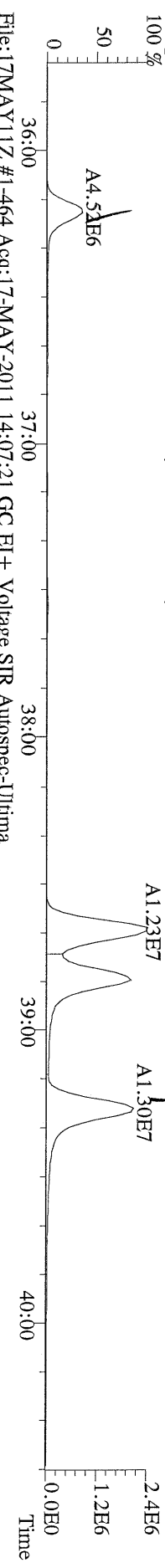
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367.8949 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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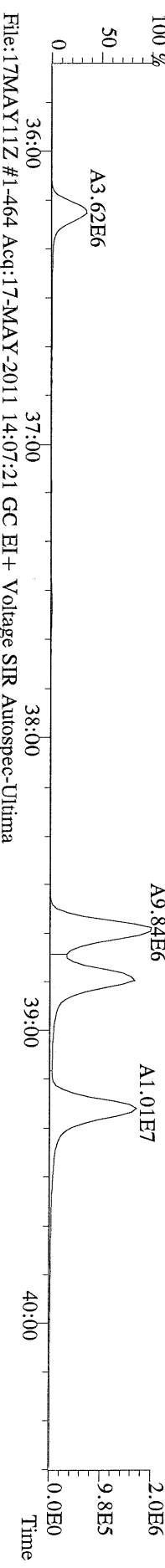
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100 %



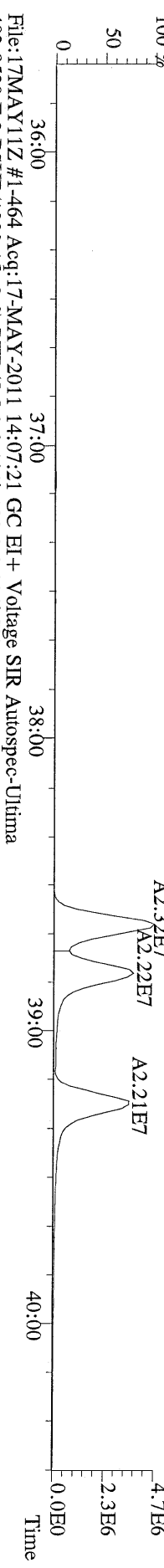
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Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



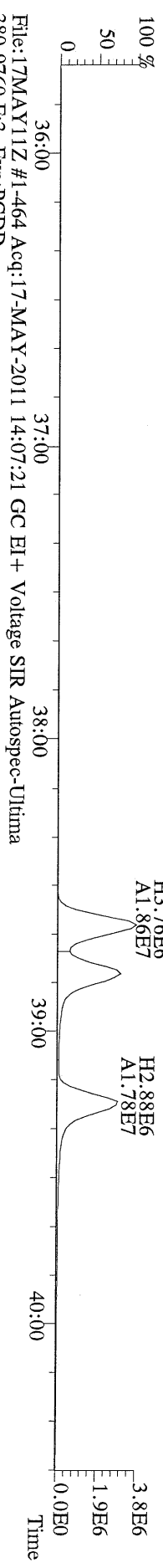
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Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



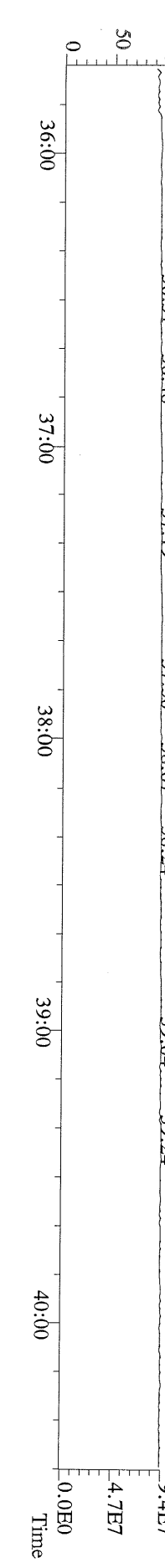
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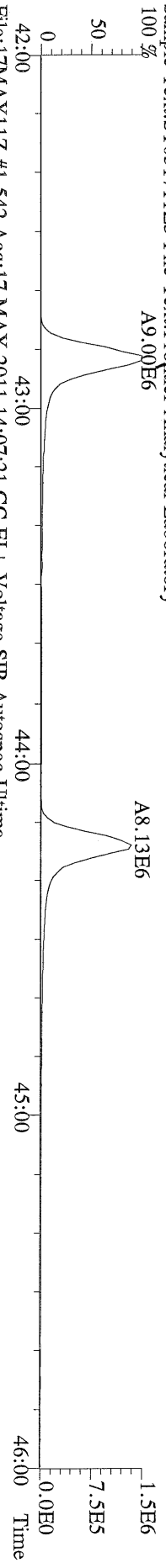
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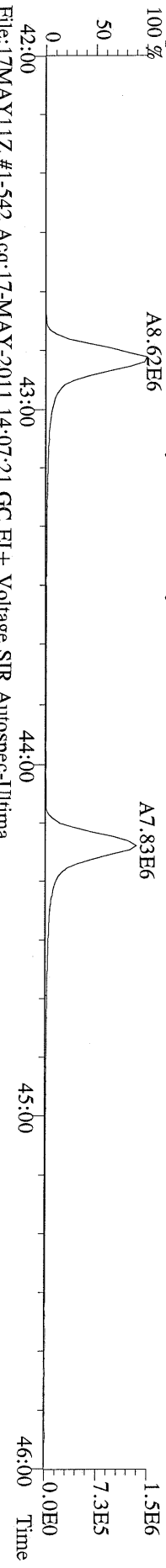
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380.9760 F:3 Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



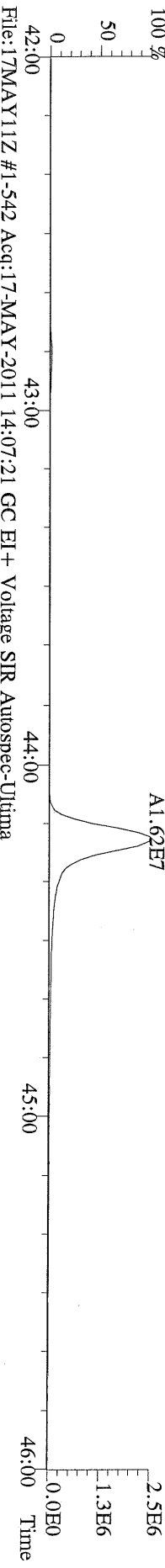
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423.7767 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



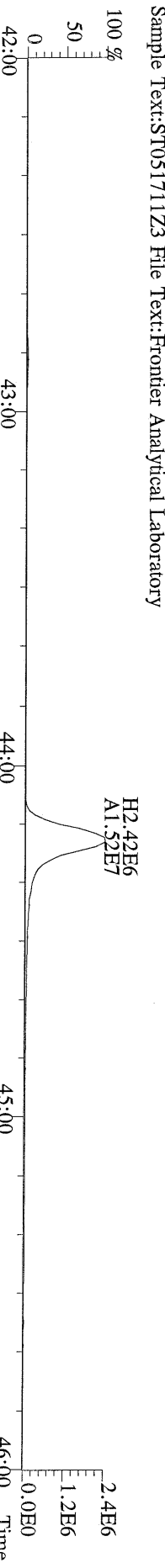
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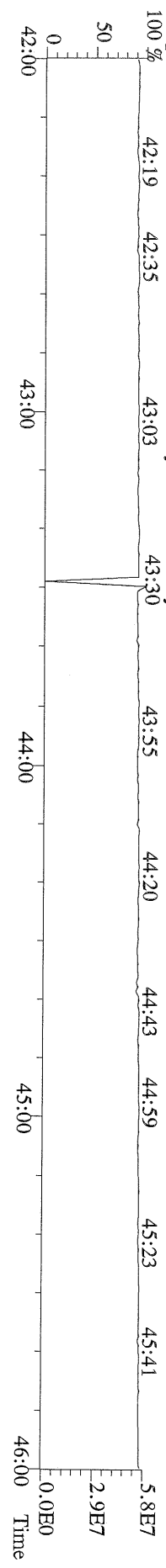
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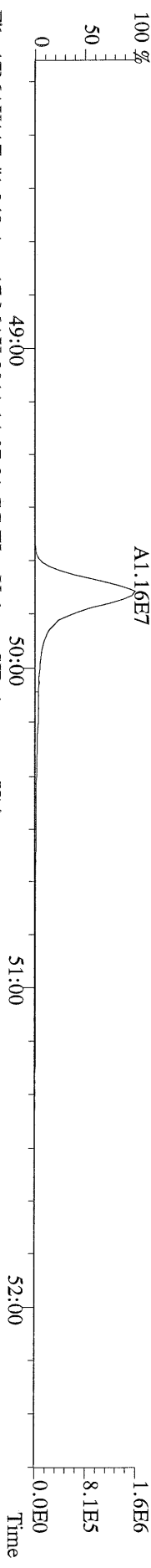
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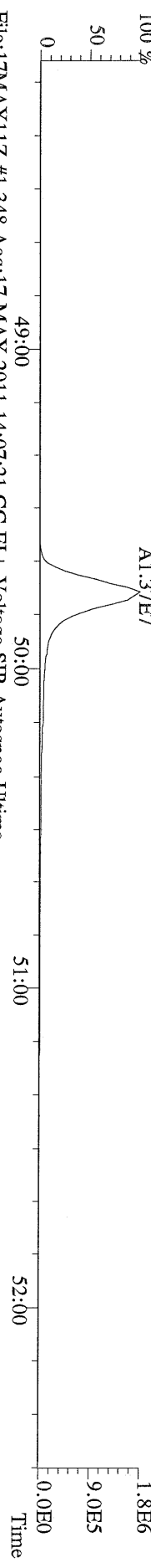
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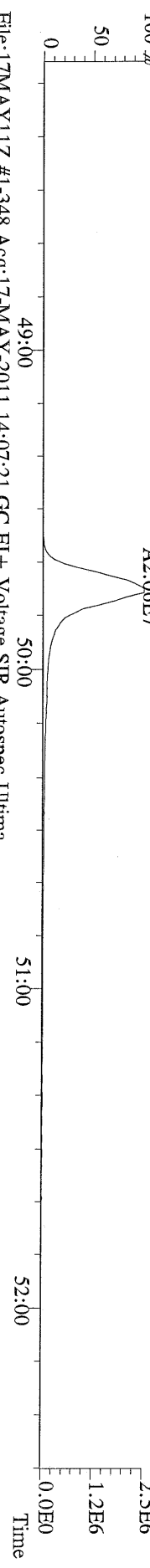
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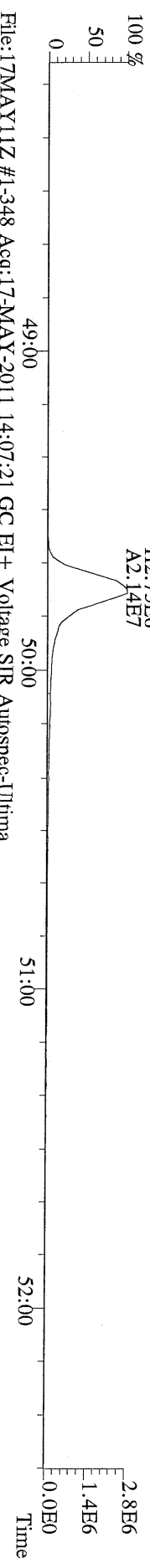
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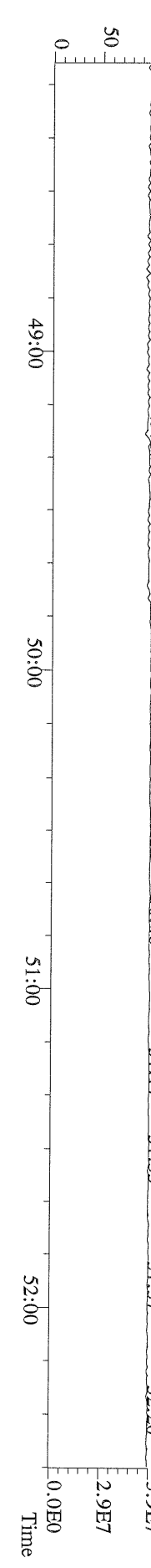
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100 %



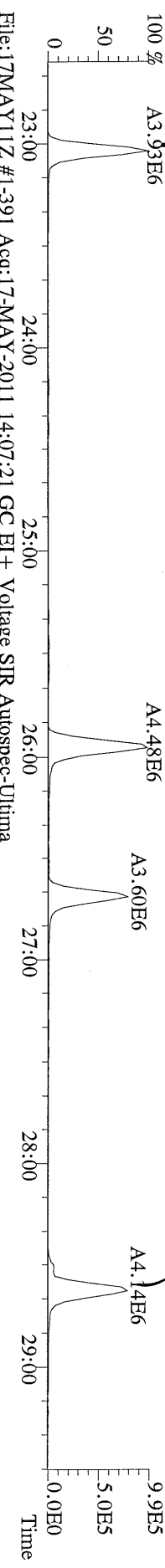
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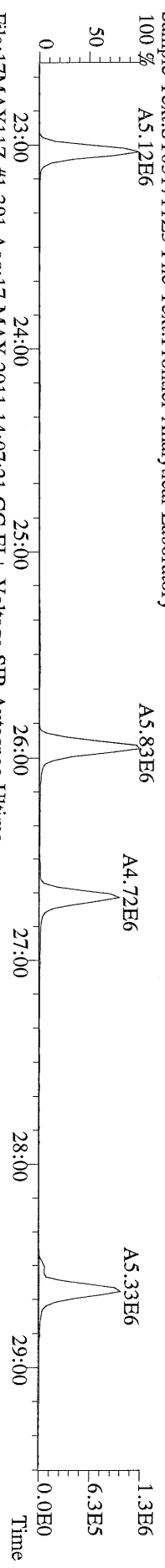
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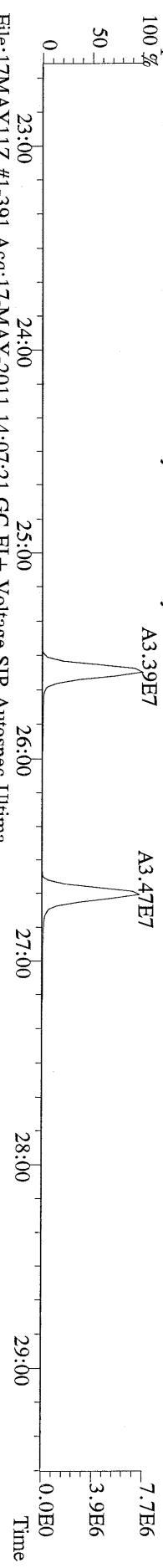
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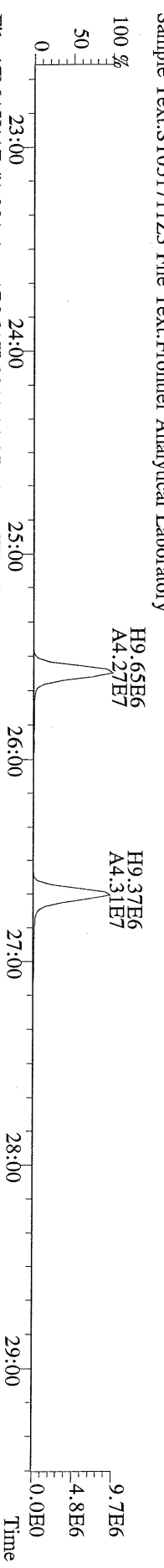
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 Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



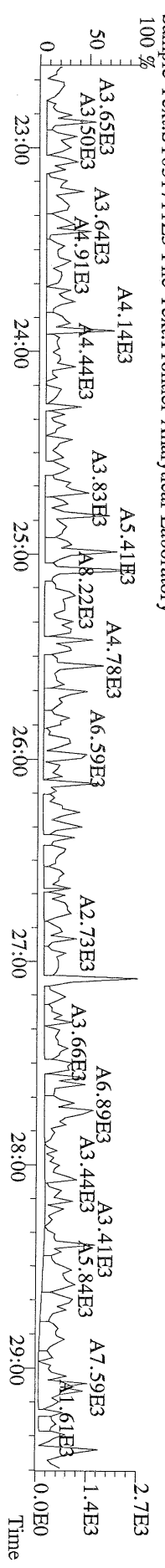
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 Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



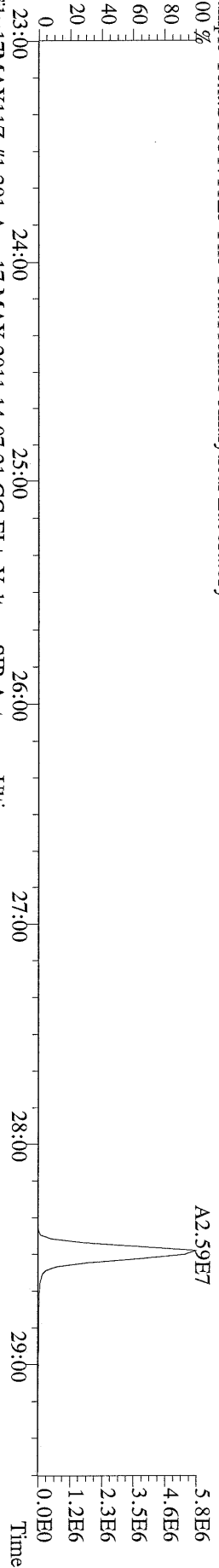
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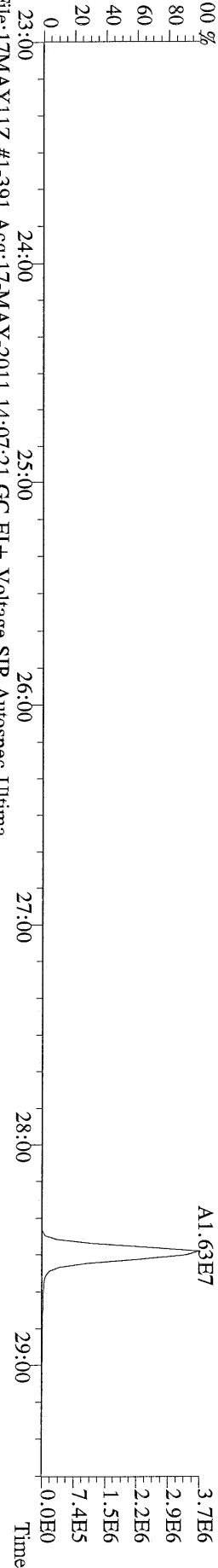
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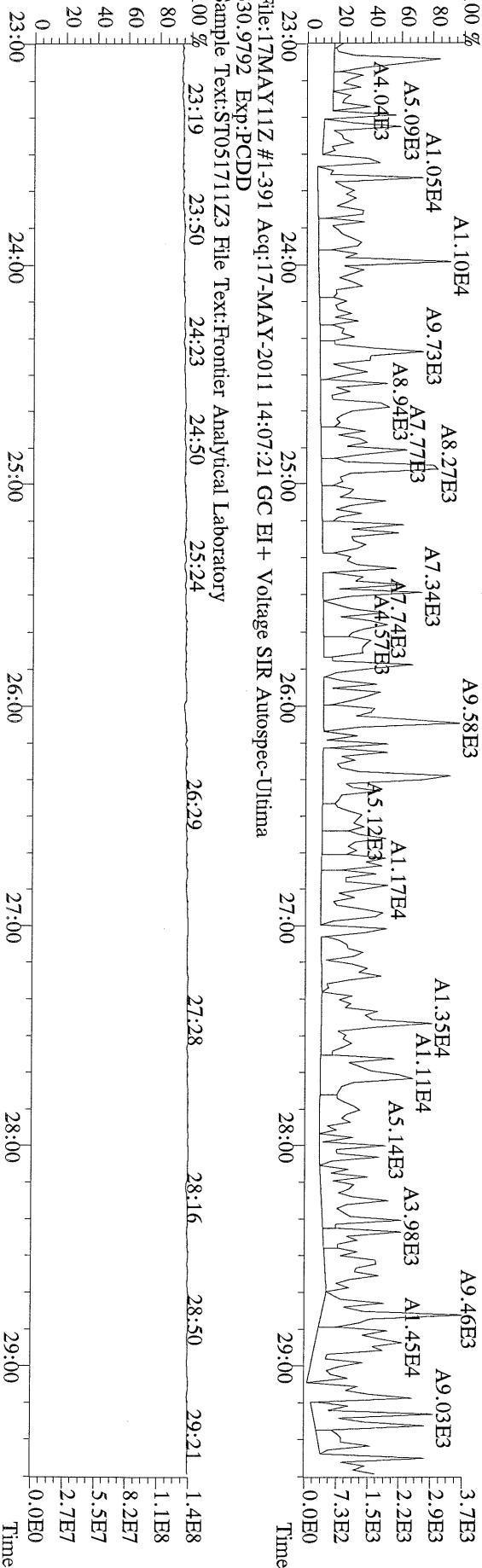
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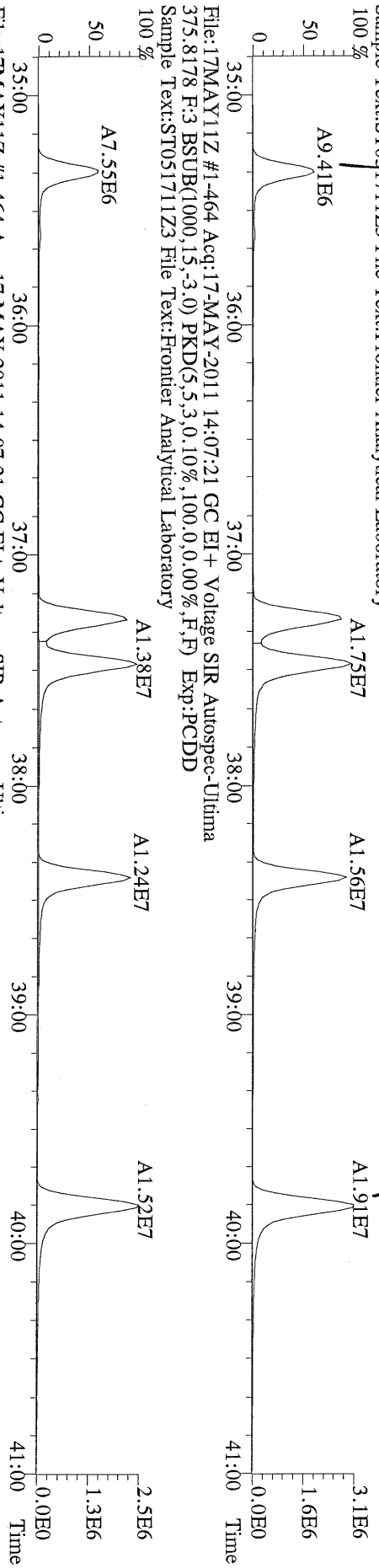
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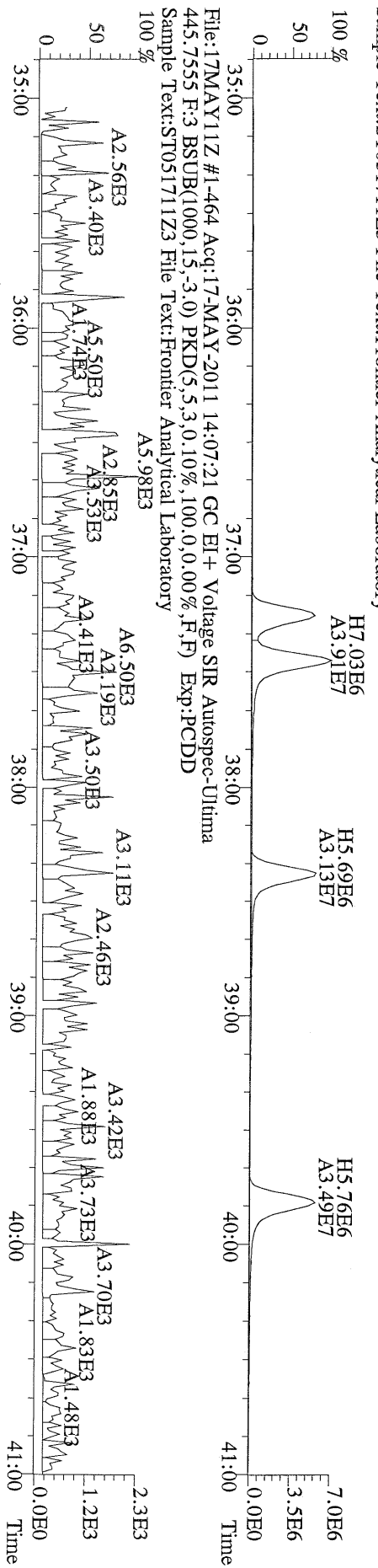
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 Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
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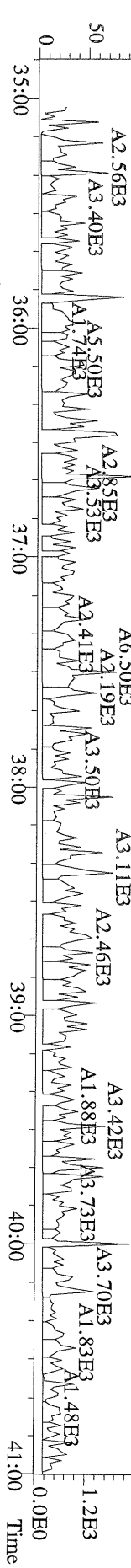
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373.8207 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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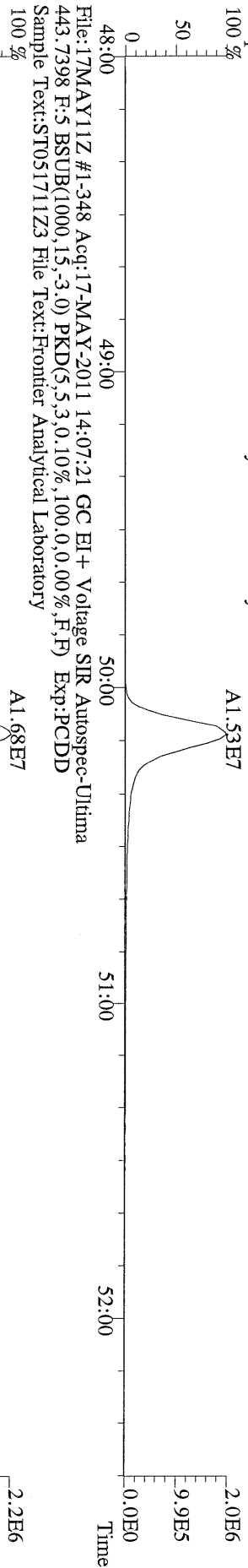
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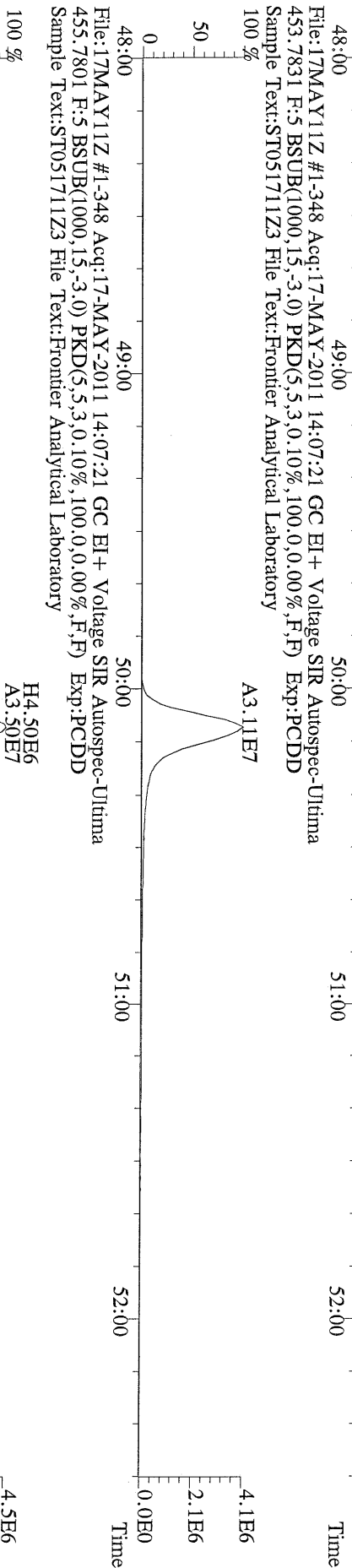
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445.7555 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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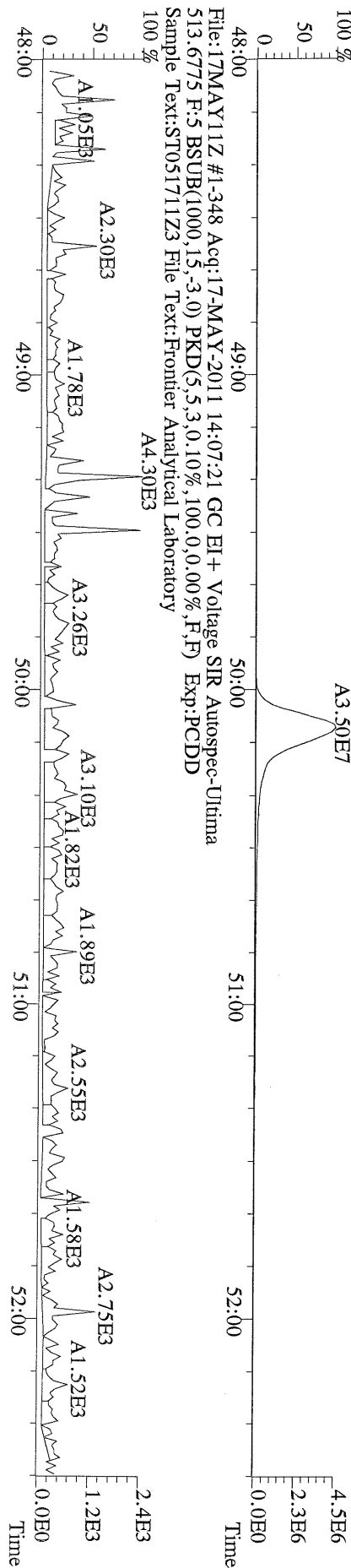
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441.7428 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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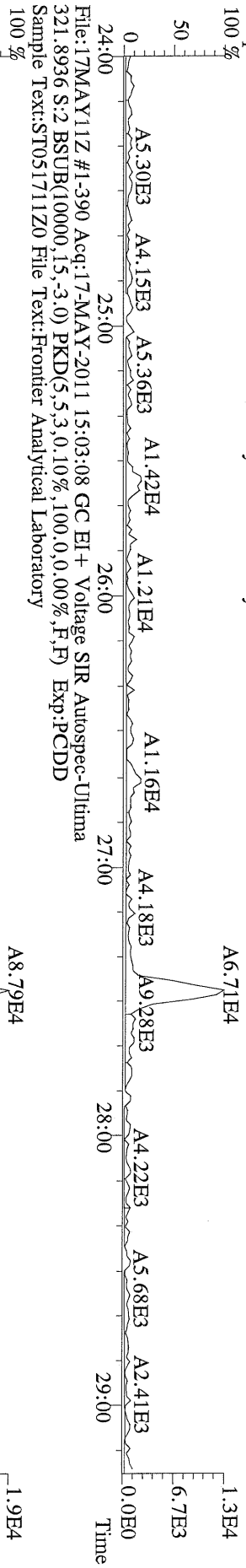
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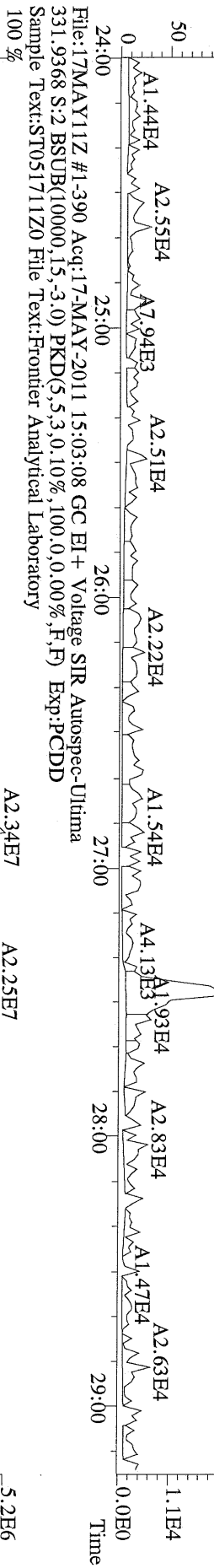
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Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



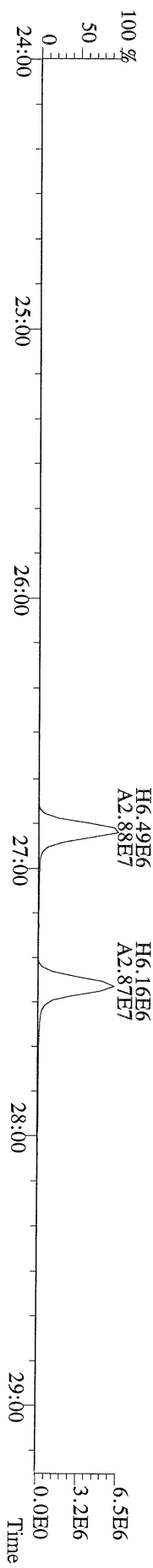
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319.8965 S.2:BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
100 %



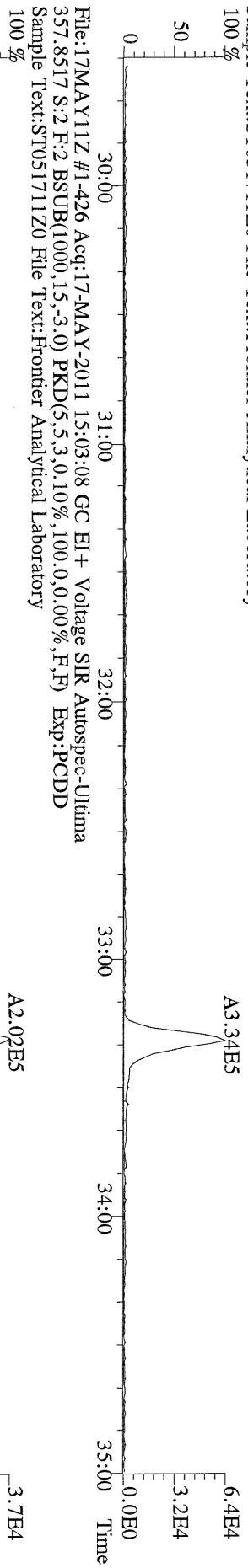
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Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
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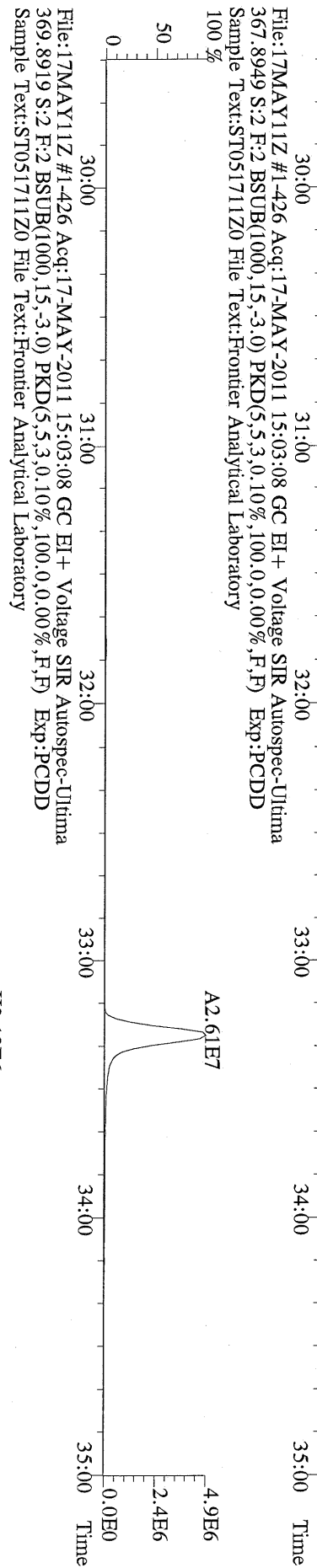
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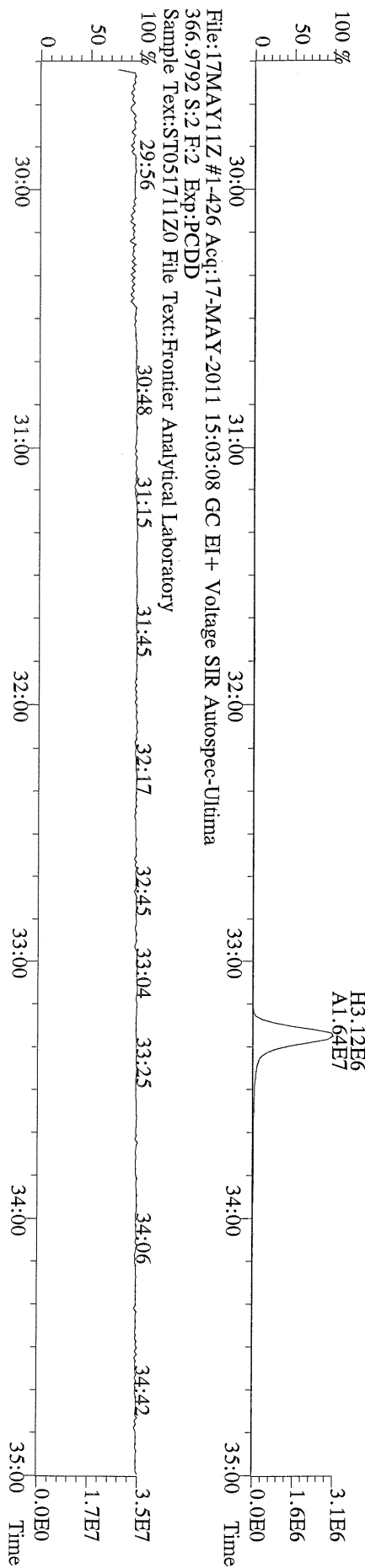
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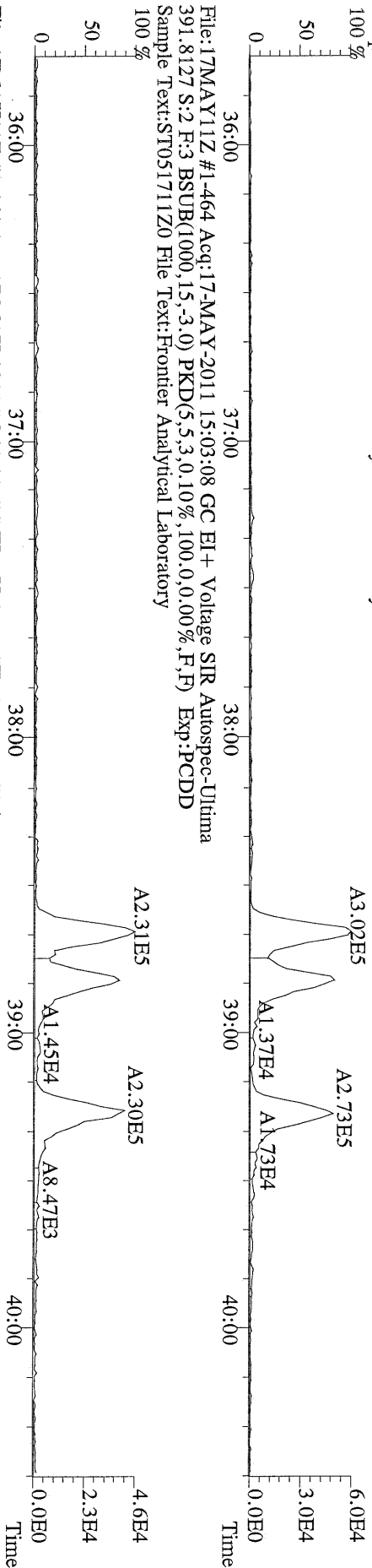
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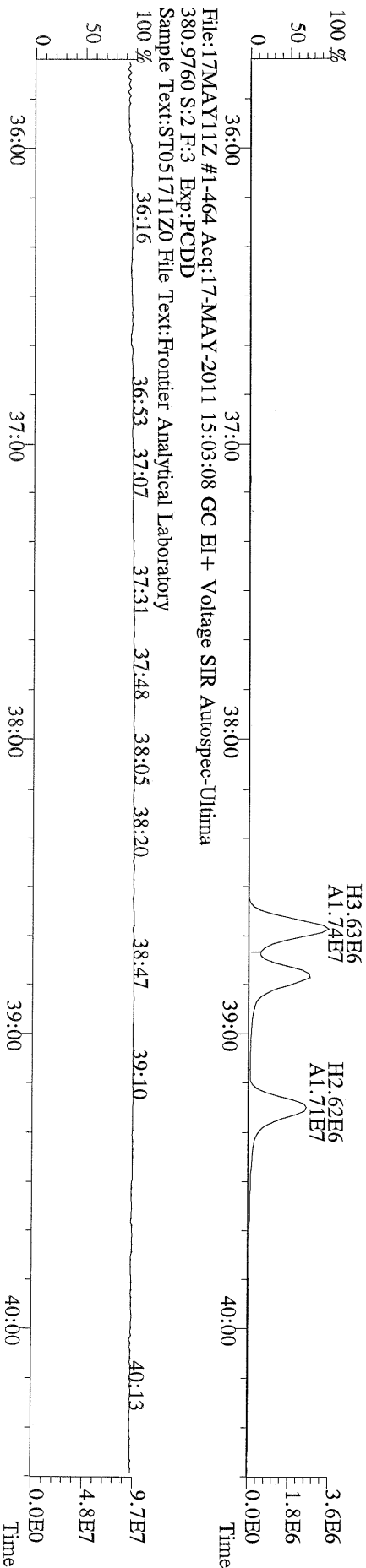
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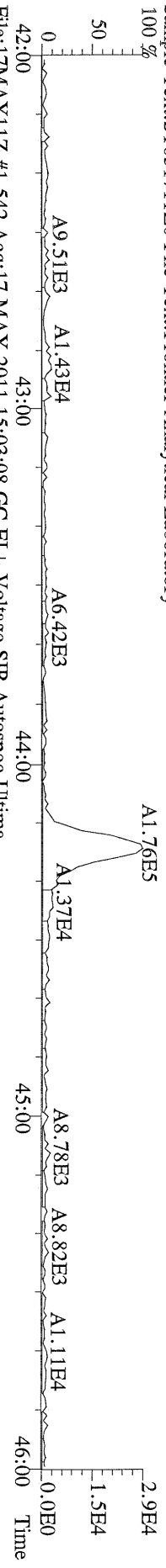
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Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
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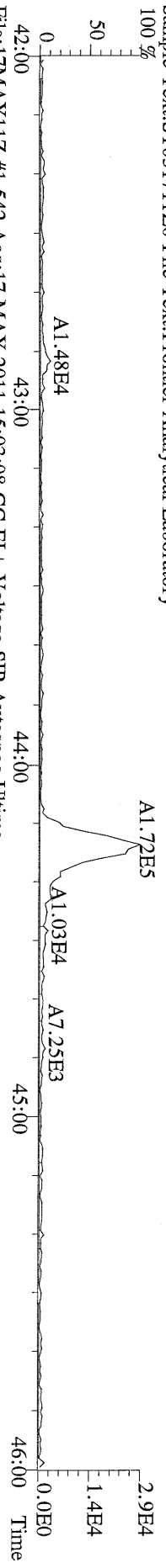
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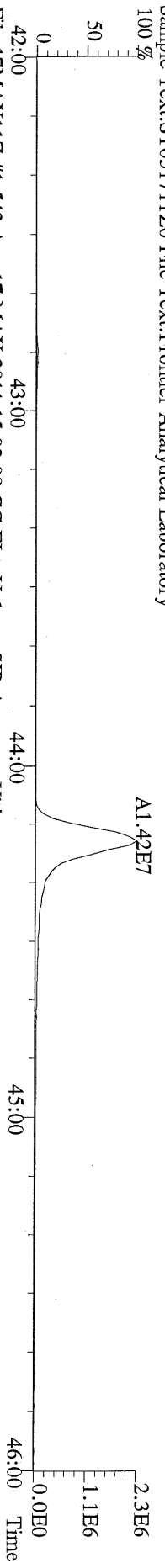
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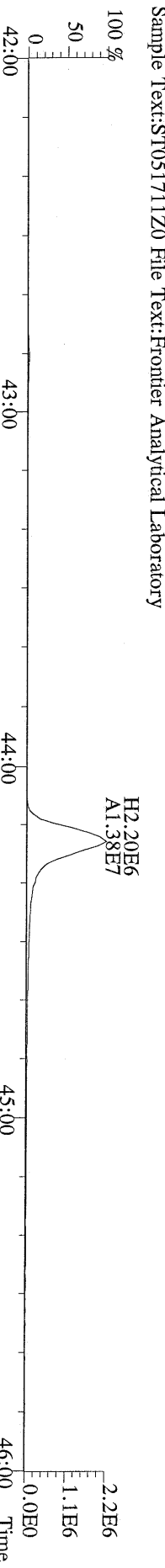
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425.7737 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



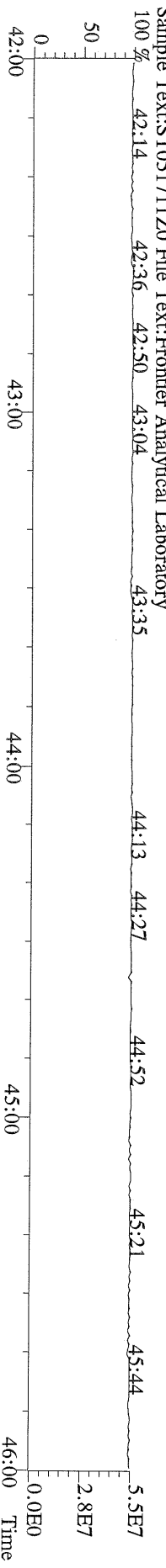
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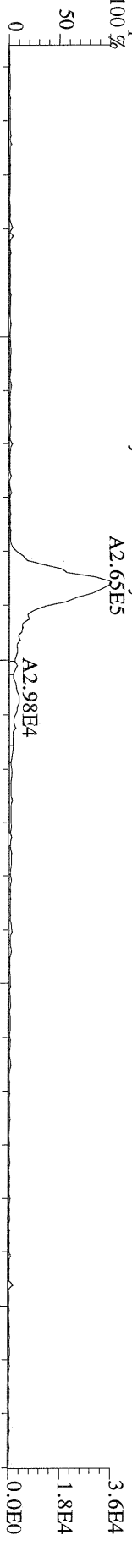
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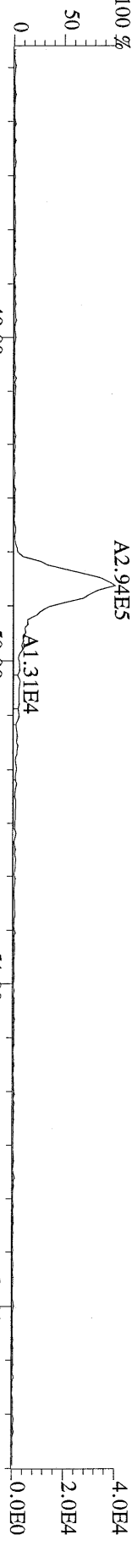
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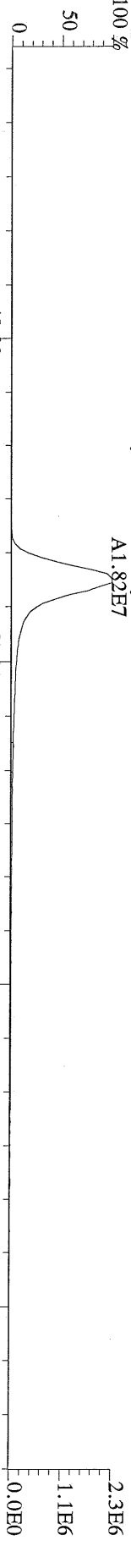
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457.7377 S:2 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
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File:17MAY11Z #1-348 Acq:17-MAY-2011 15:03:08 GC EI+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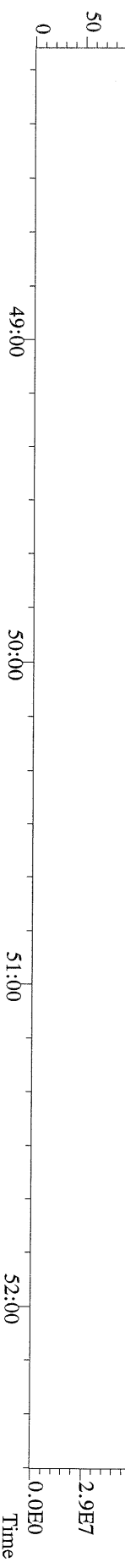
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Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory
100 %



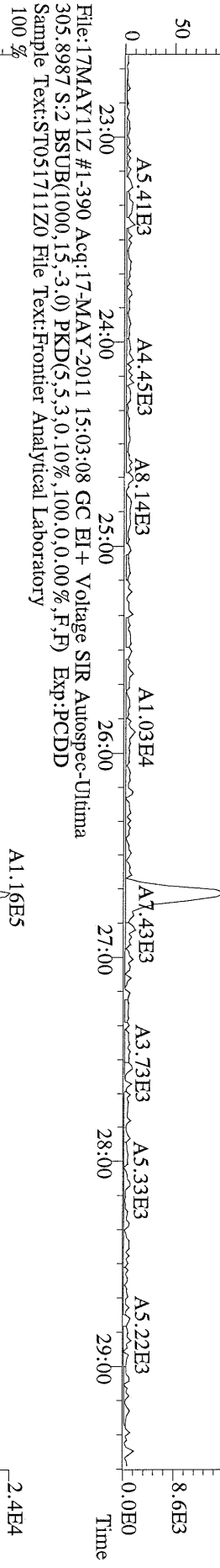
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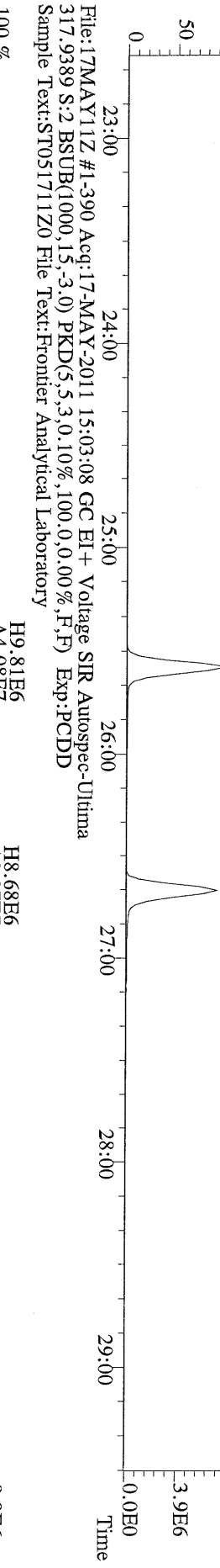
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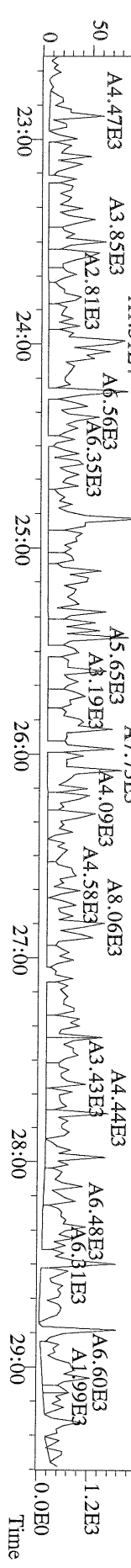
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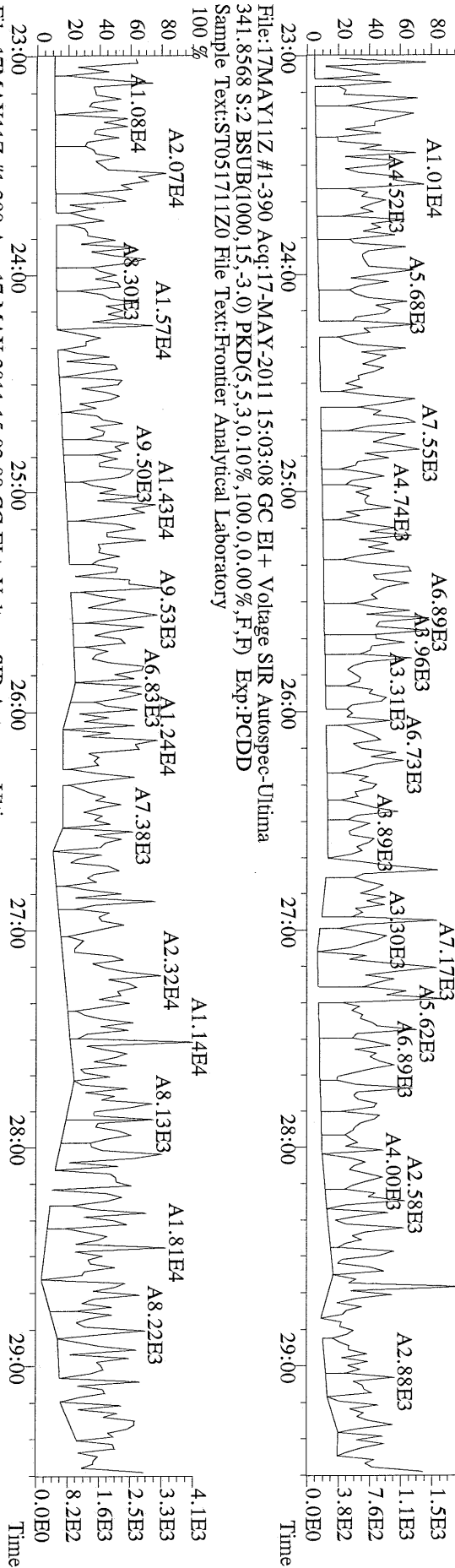
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 315.9419 S:2 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



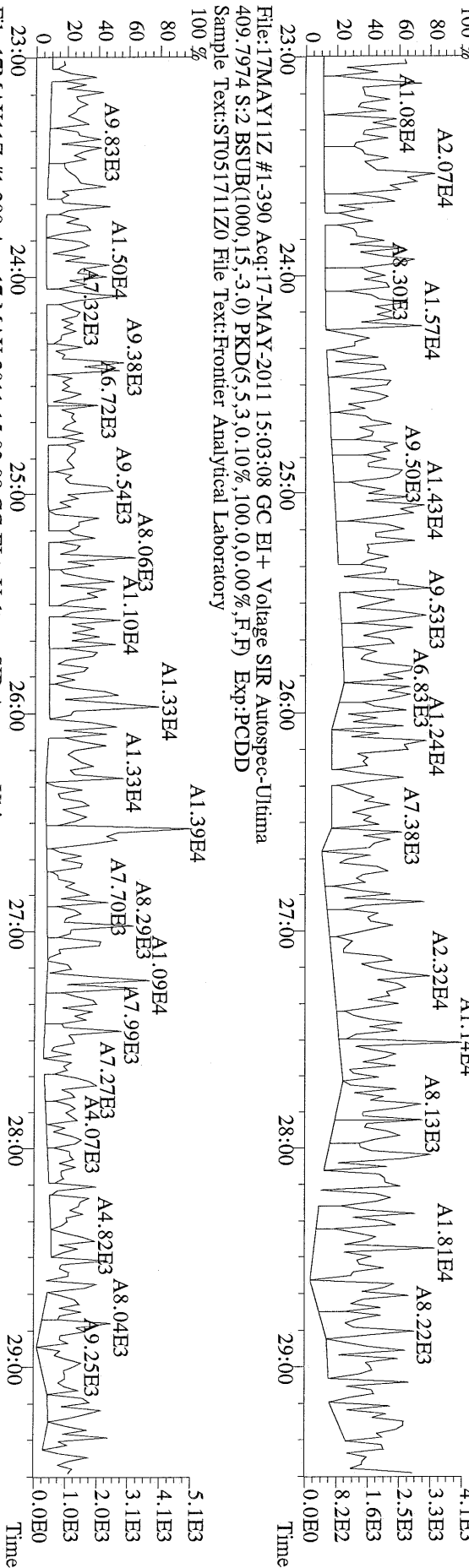
File:17MAY11Z #1-390 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:2 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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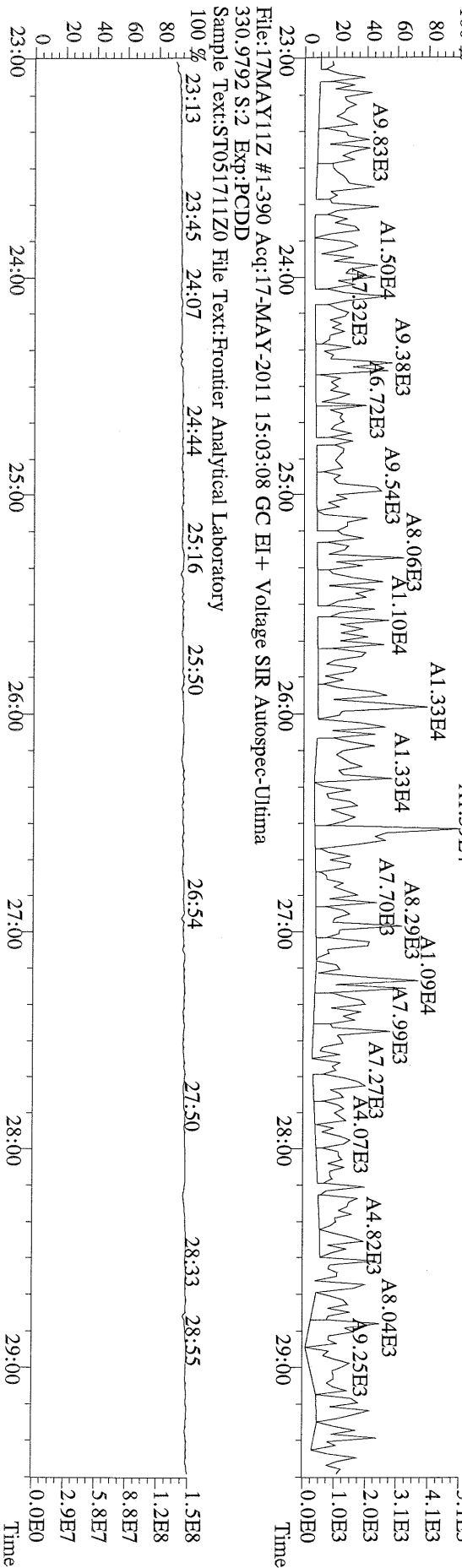
File:17MAY11Z #1-390 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:2 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



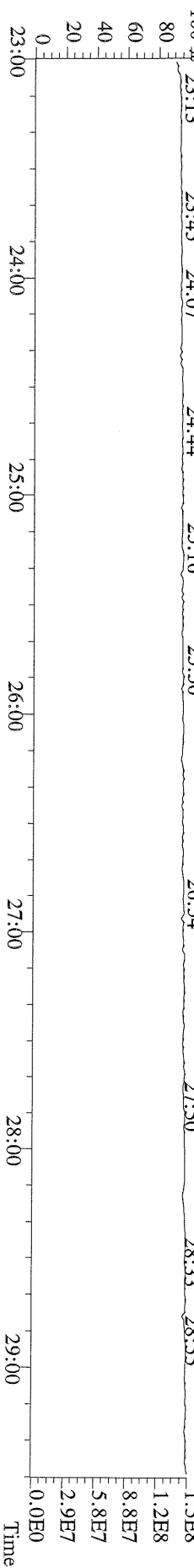
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 341.8568 S:2 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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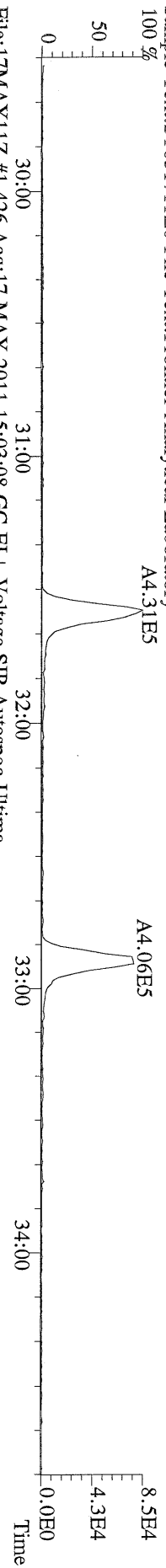
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 409.7974 S:2 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



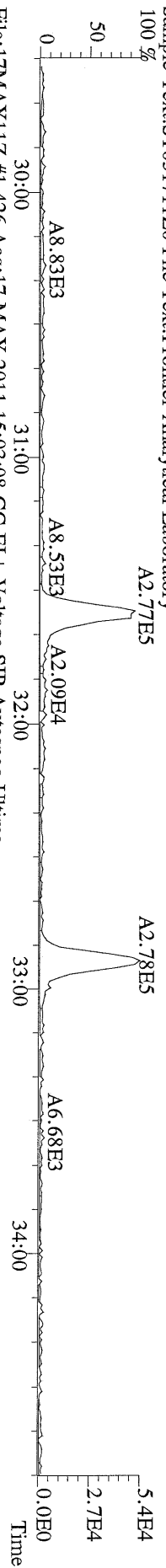
File:17MAY11Z #1-390 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Utima
 330.9792 S:2 Exp:PCDD
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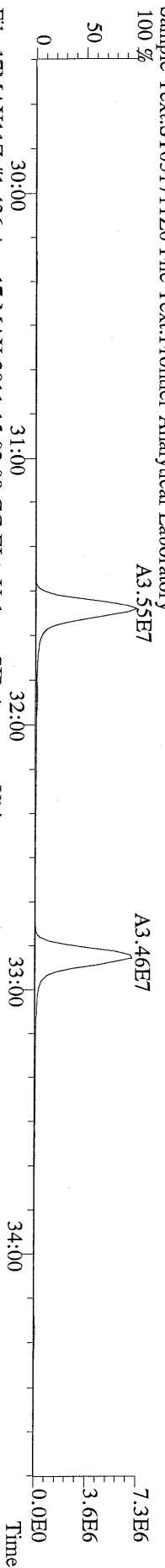
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 339.8597 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



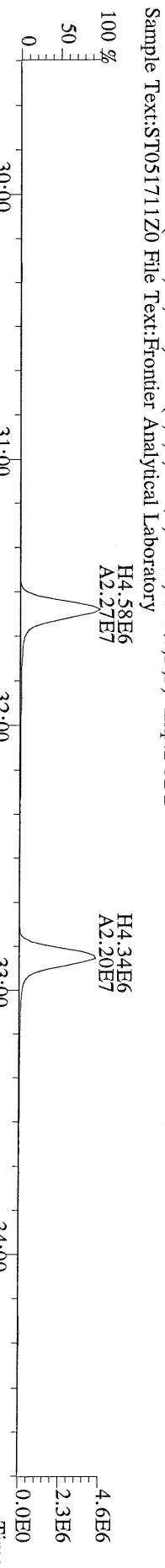
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 341.8568 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



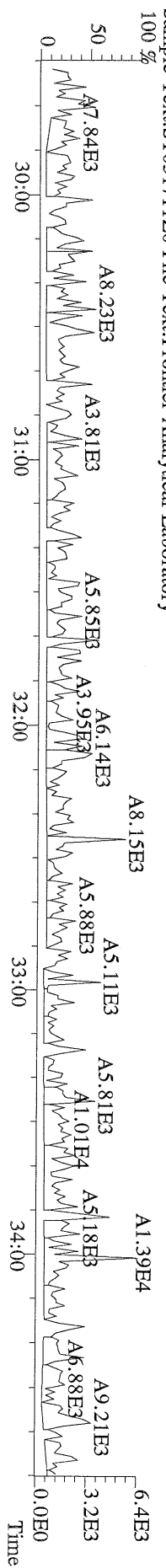
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 351.9000 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



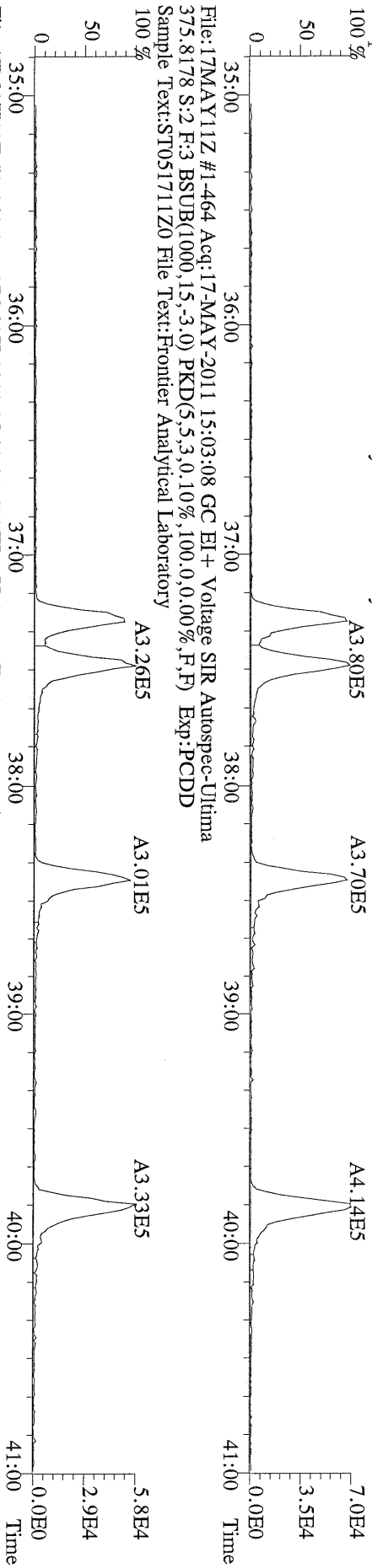
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 353.8970 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



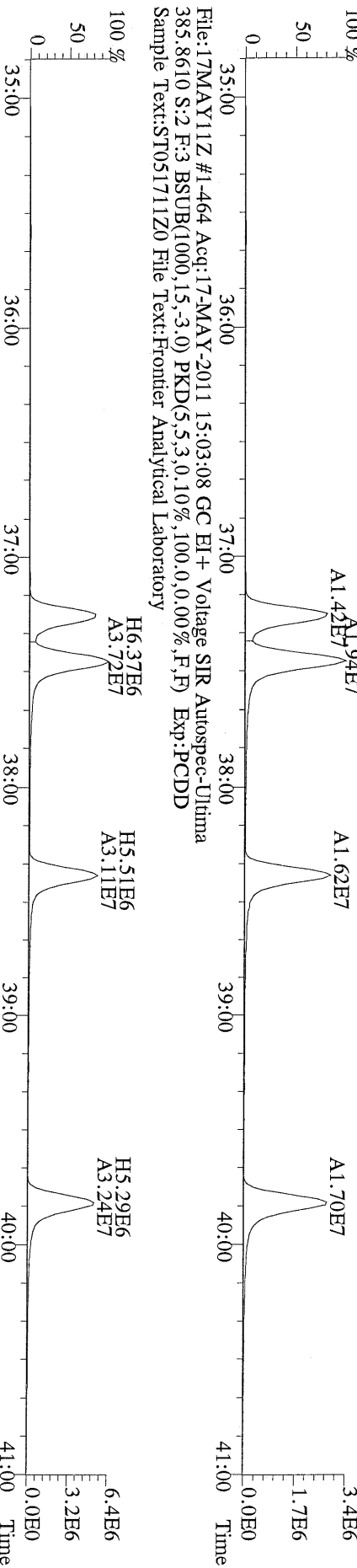
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 Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



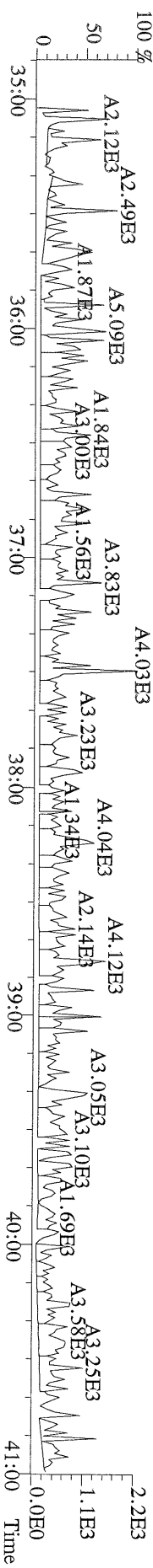
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373.8207 S:2 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



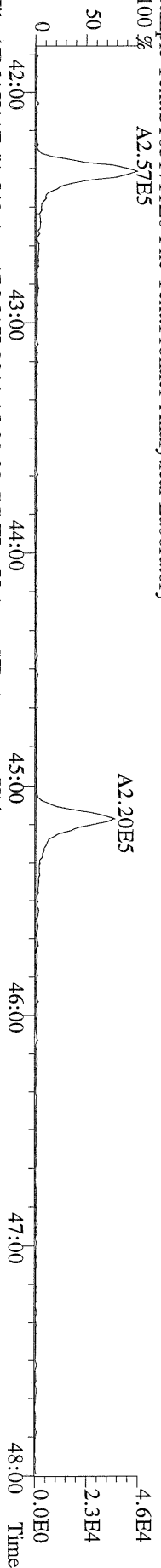
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383.8639 S:2 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



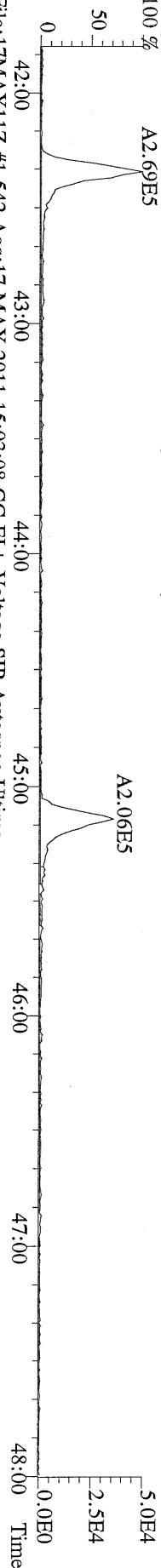
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Utima
445.7555 S:2 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



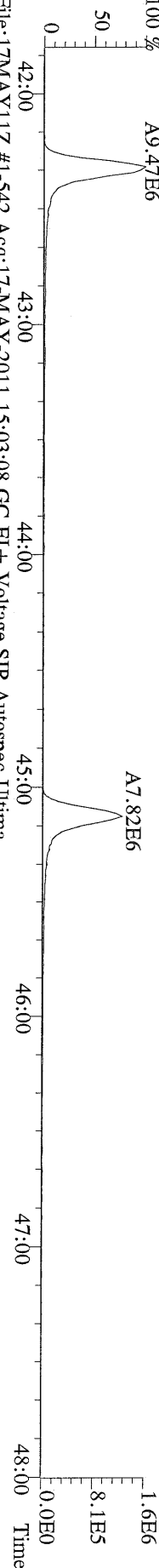
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407.7818 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



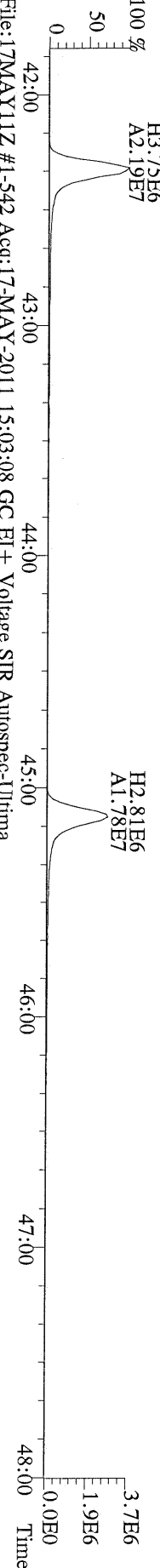
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409.7788 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



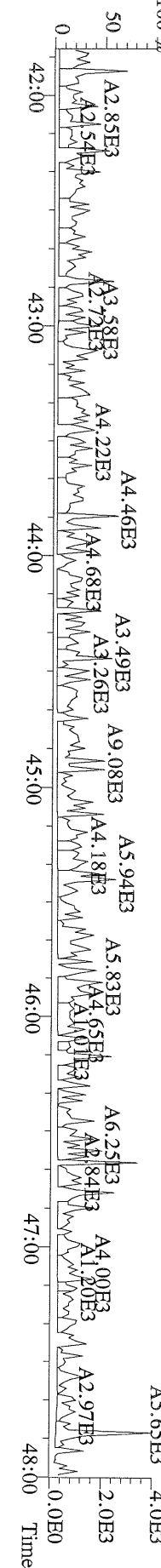
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417.8253 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



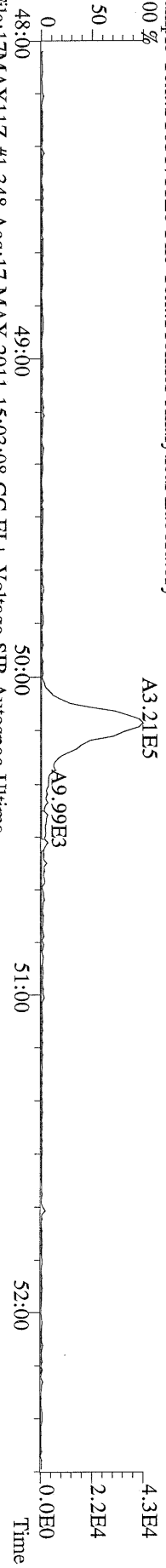
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



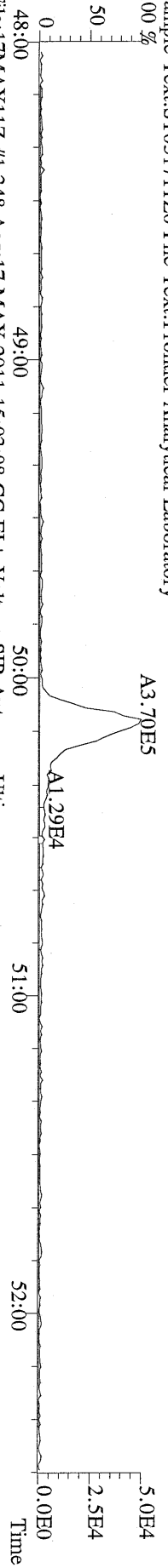
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479.7165 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



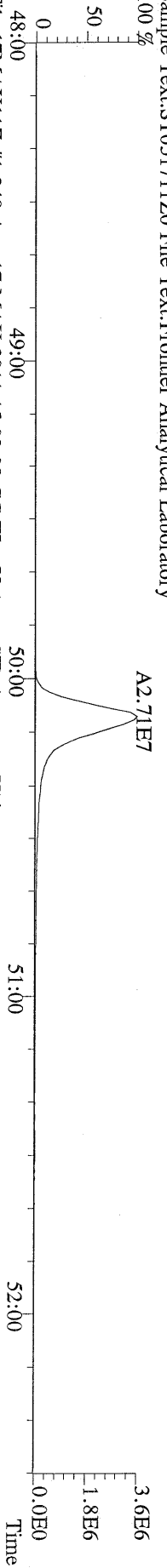
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S.2 F.5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



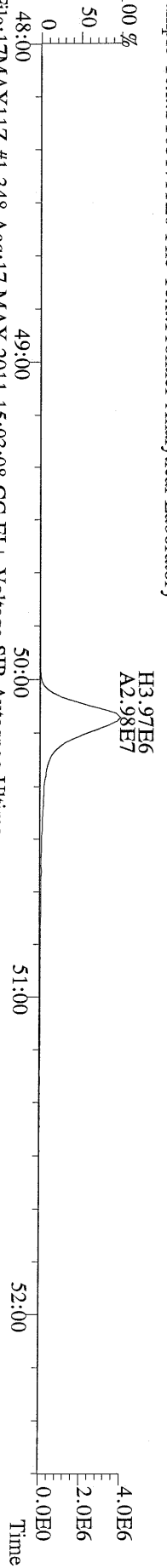
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443.7398 S.2 F.5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



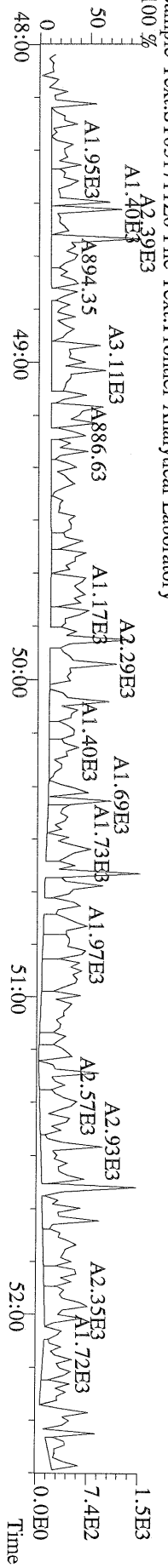
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453.7831 S.2 F.5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



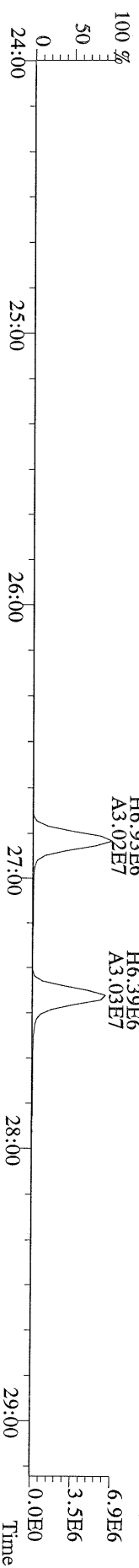
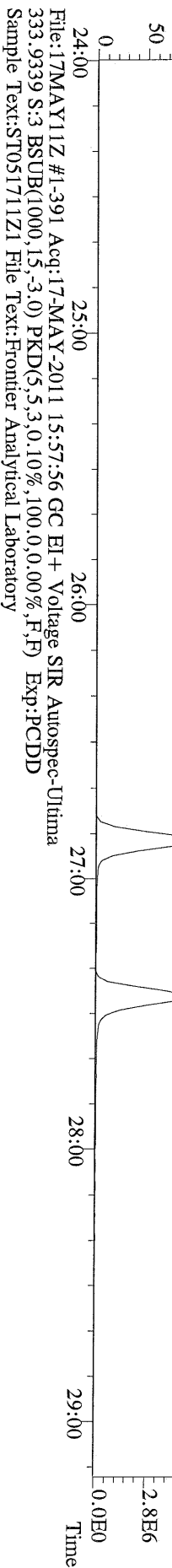
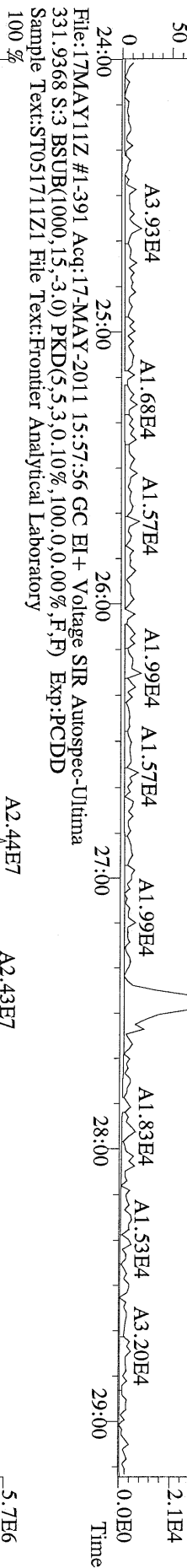
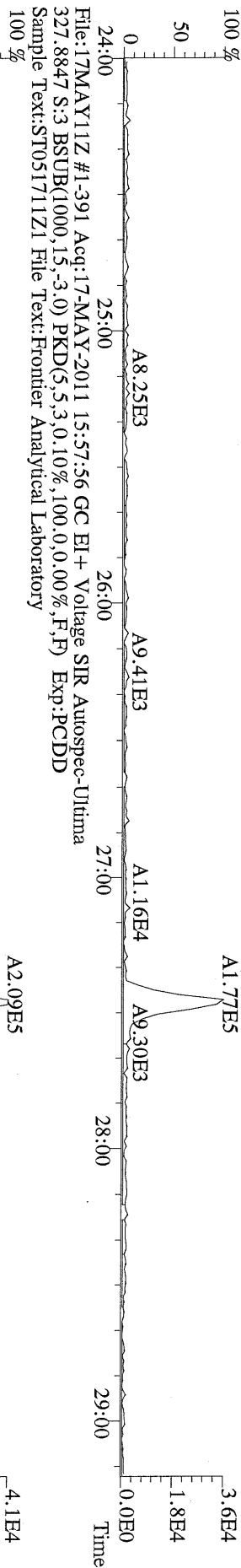
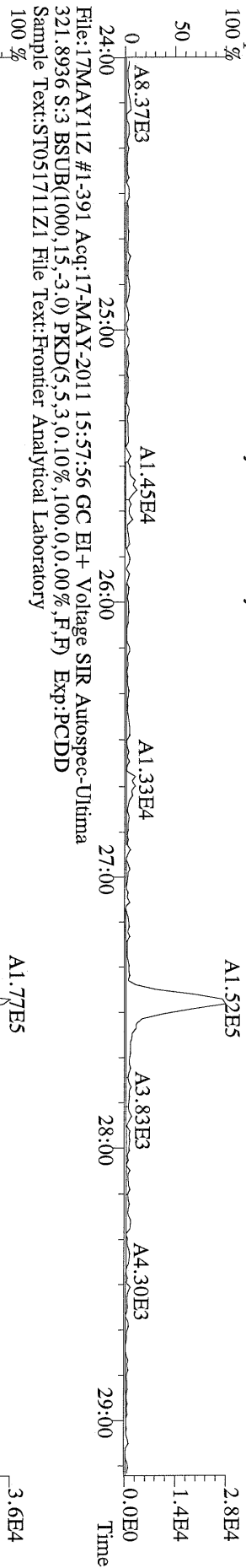
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455.7801 S.2 F.5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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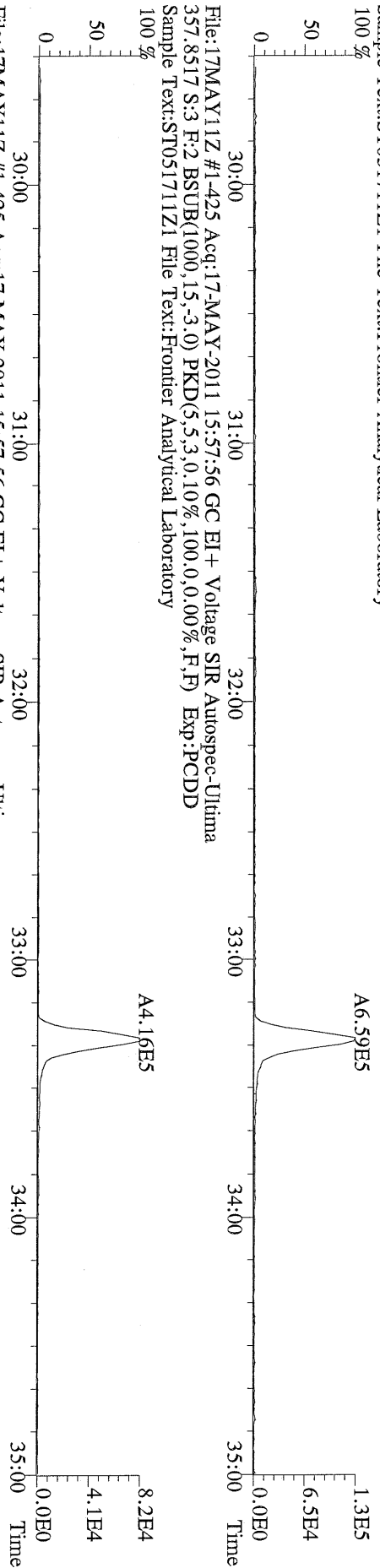
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:03:08 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S.2 F.5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



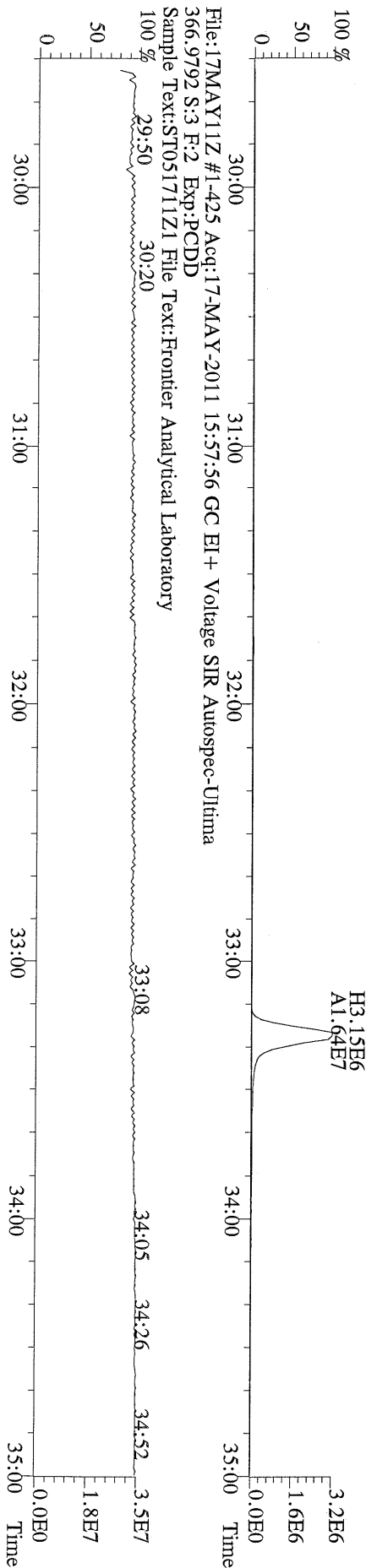
File:17MAY11Z #1-391 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S.3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory
100 %



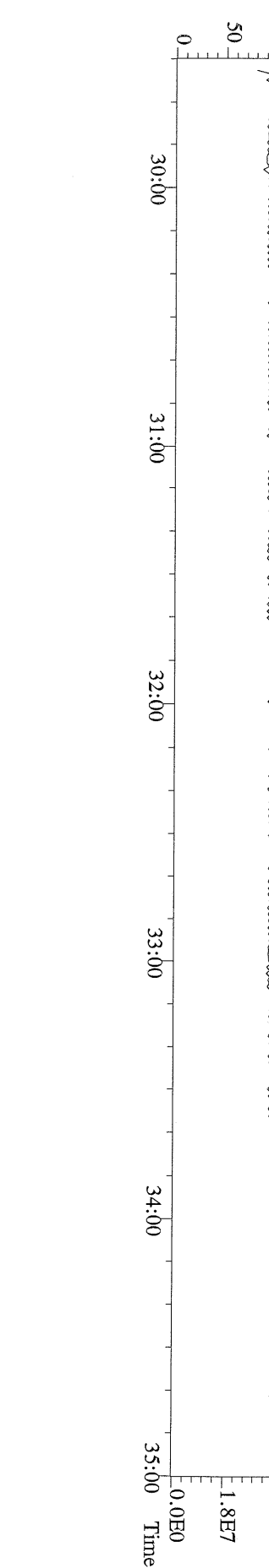
File:17MAY11Z #1-425 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S.3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



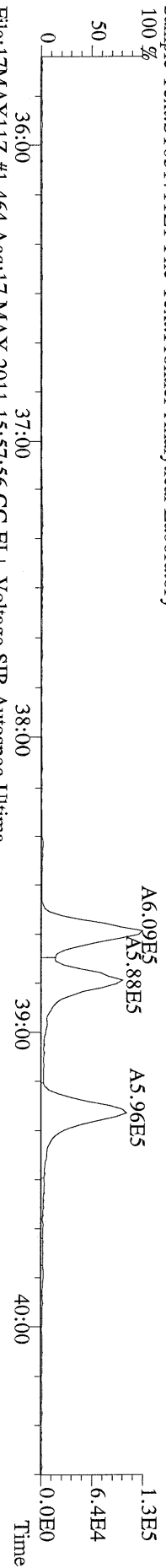
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367.8949 S.3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



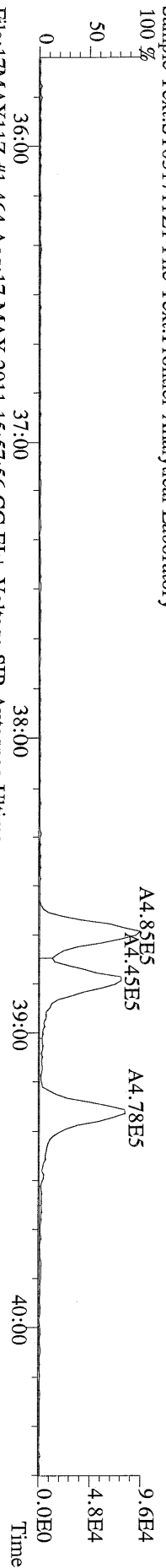
File:17MAY11Z #1-425 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S.3 F:2 Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



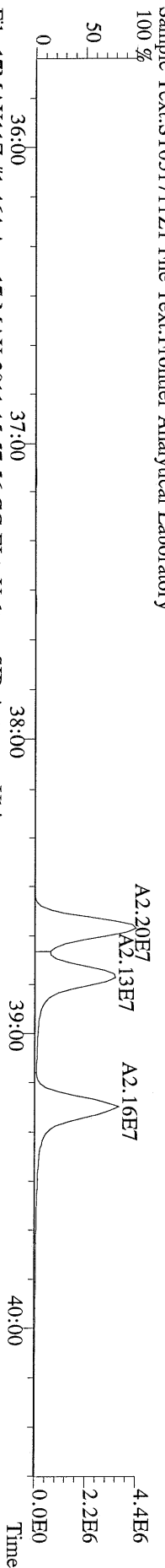
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



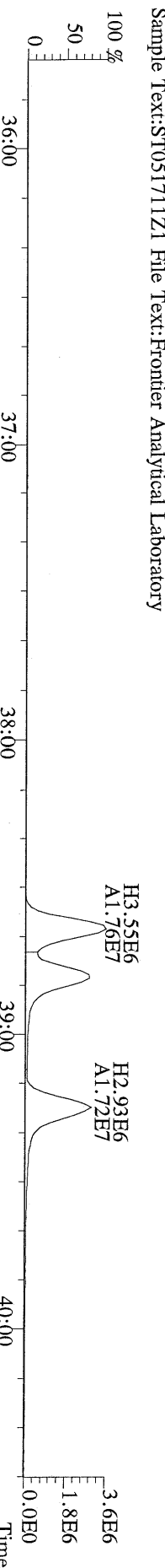
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391.8127 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



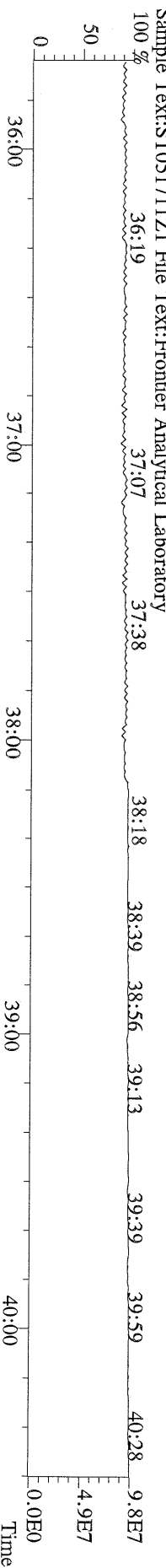
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401.8559 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



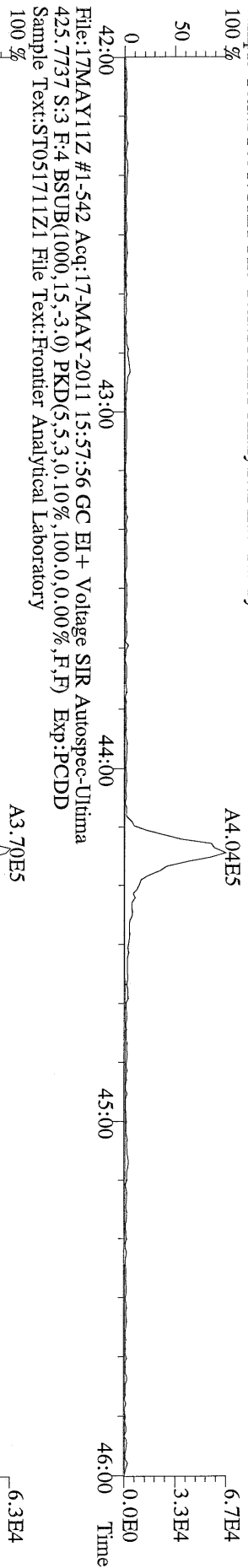
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403.8530 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



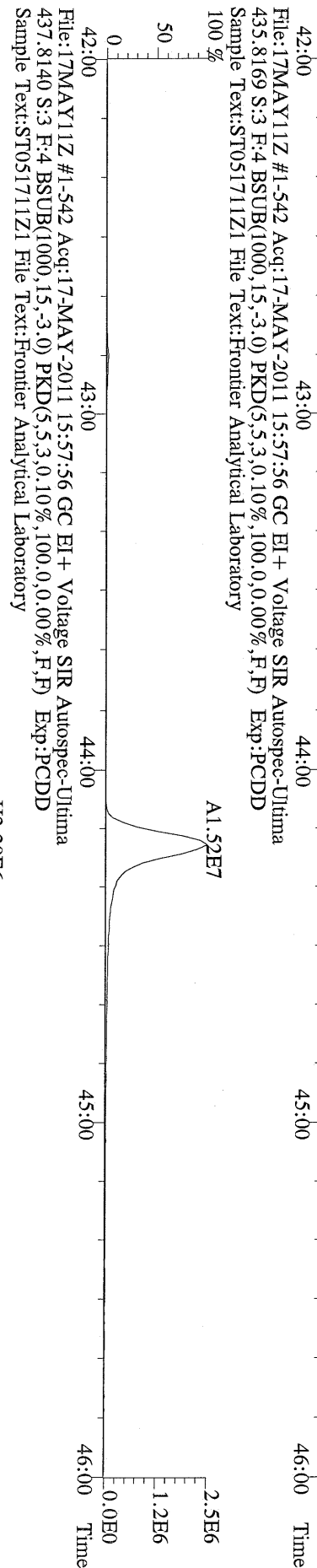
File:17MAY11Z #1-464 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:3 F:3 Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



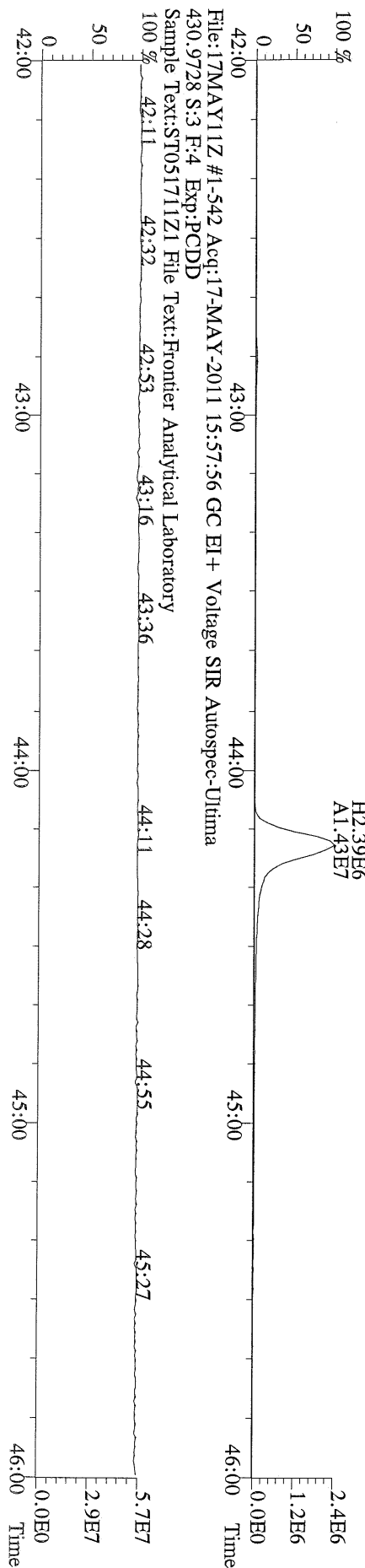
File:17MAY11Z #1-542 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:3 F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



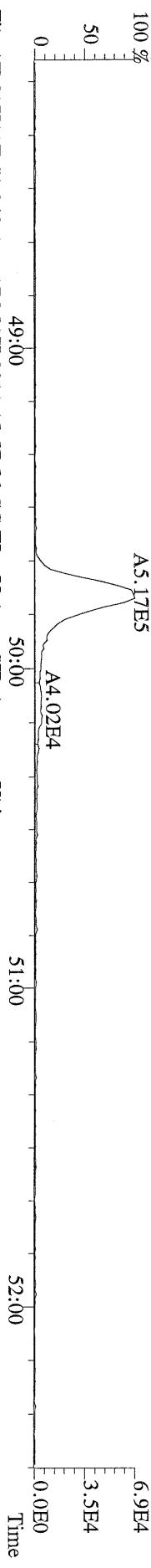
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425.7737 S:3 F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



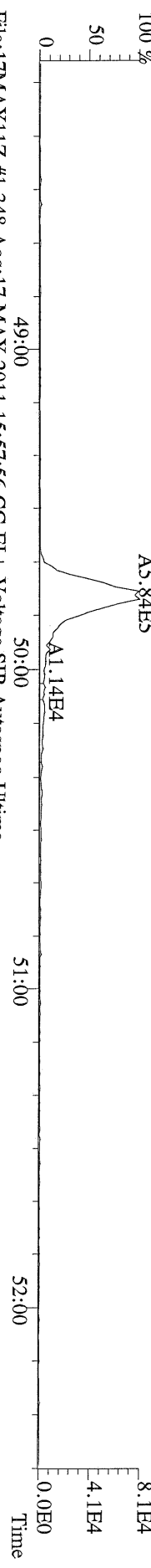
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437.8140 S:3 F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



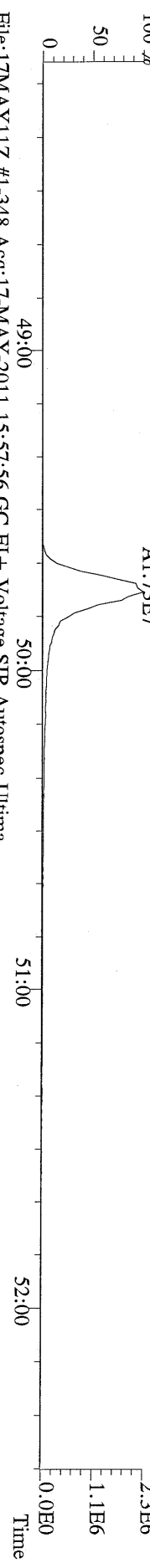
File:17MAY11Z #1-348 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



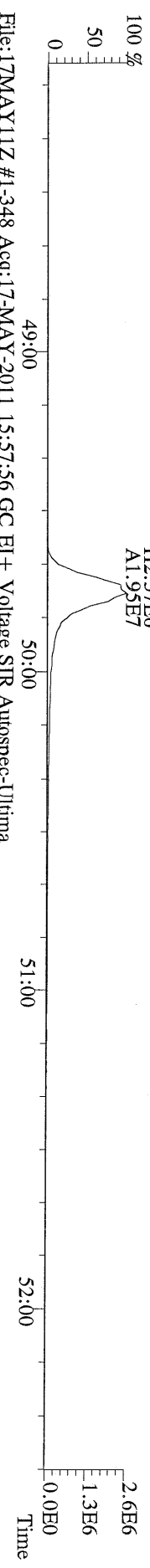
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459.7348 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



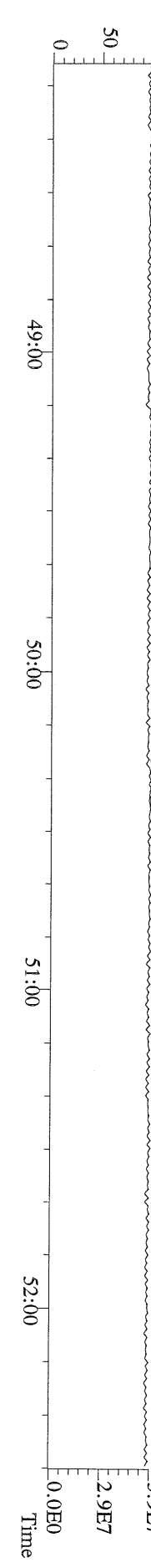
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469.7780 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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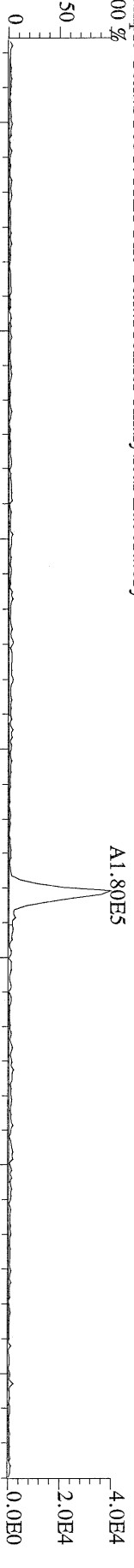
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471.7750 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



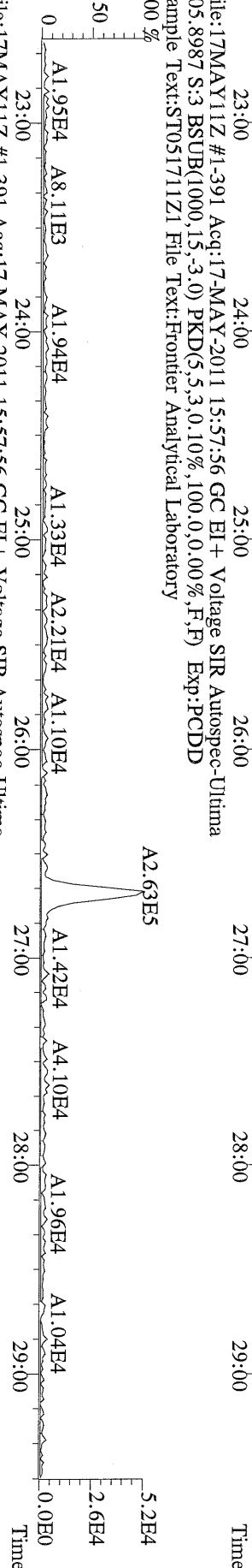
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454.9728 S:3 F:5 Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



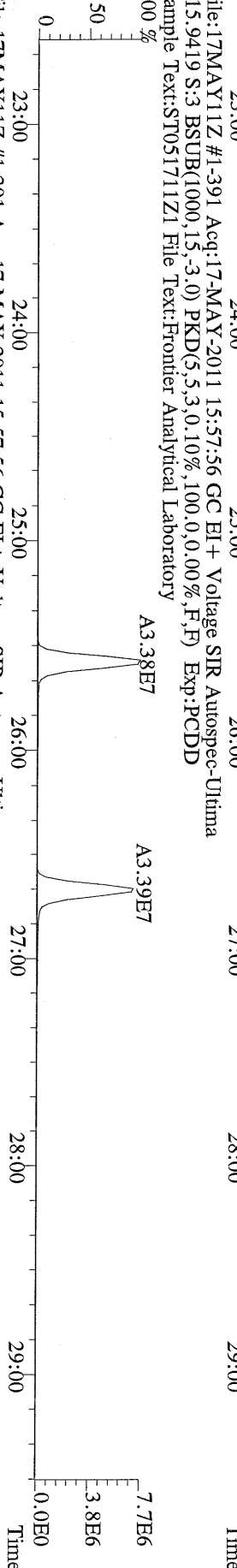
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100 %



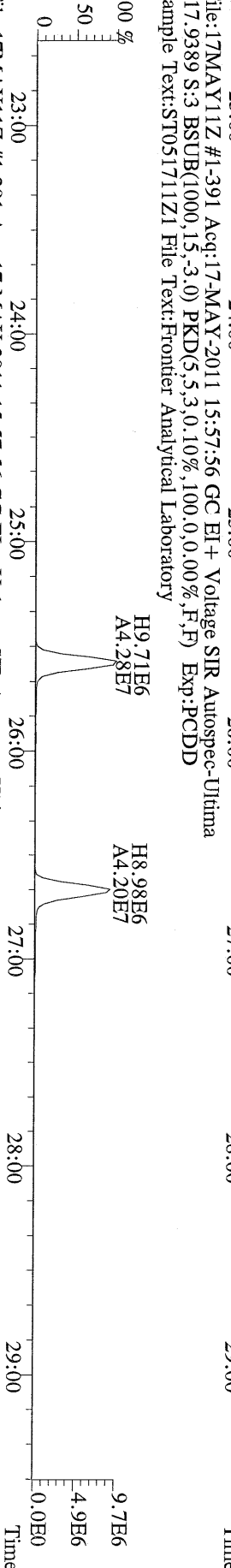
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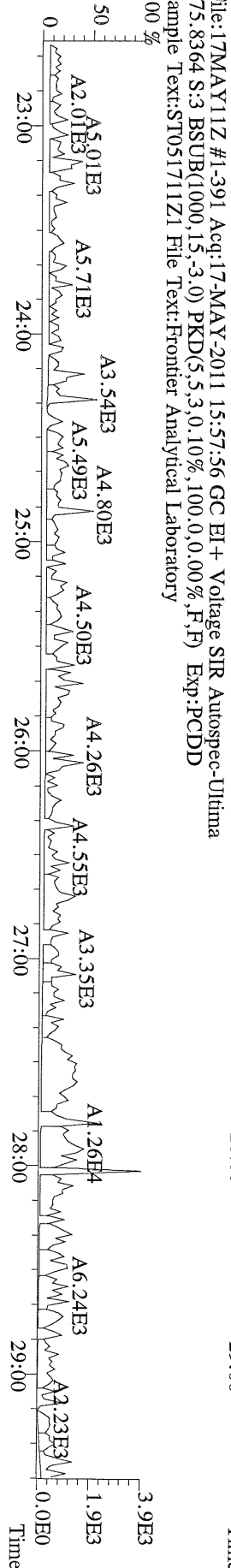
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Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory
100 %



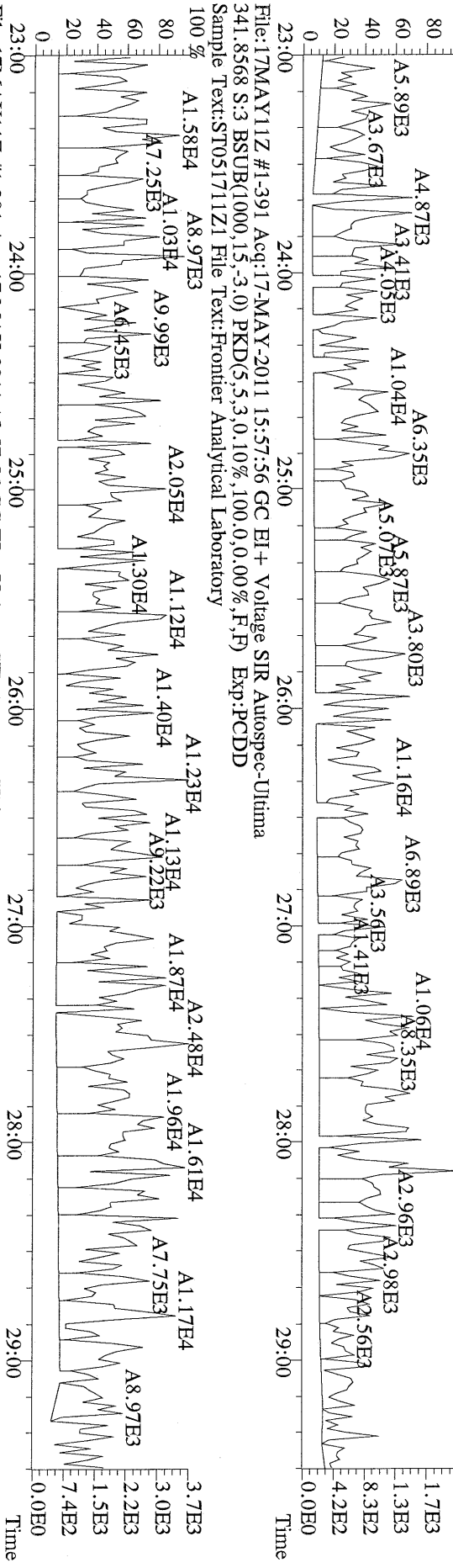
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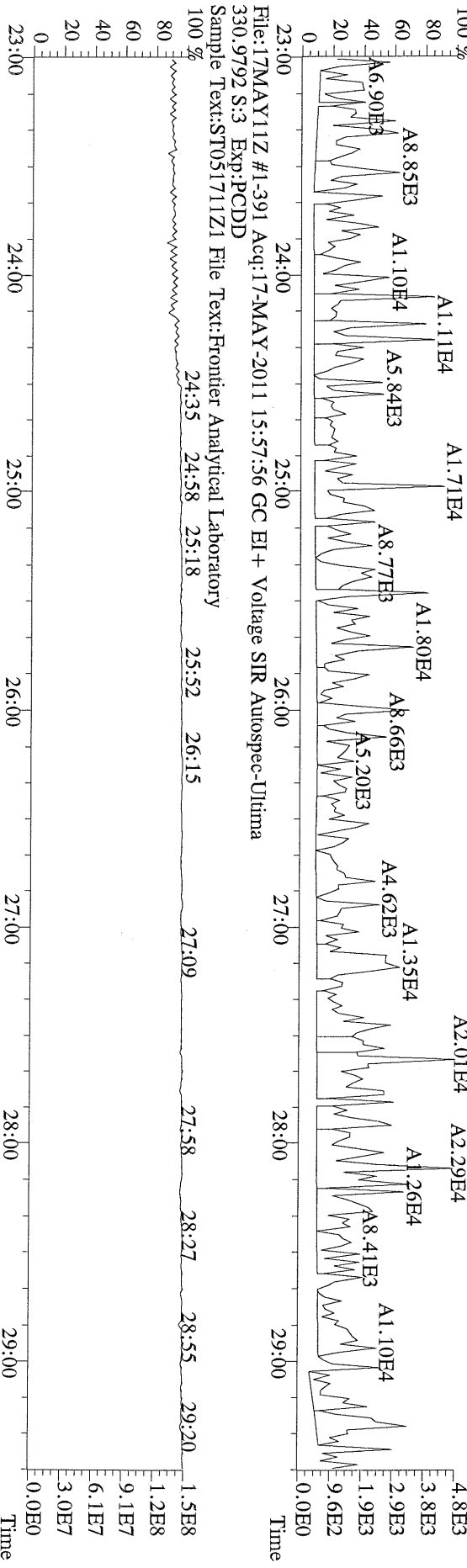
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100 %



File:17MAY11Z #1-391 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
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 Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory

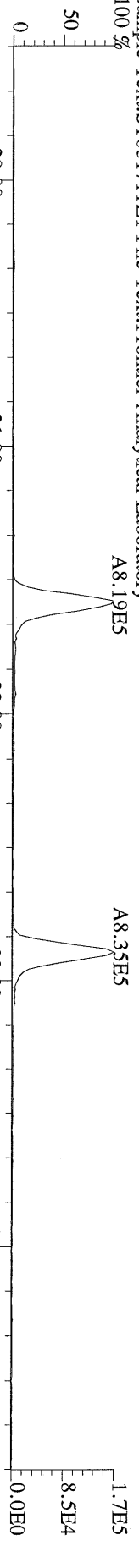


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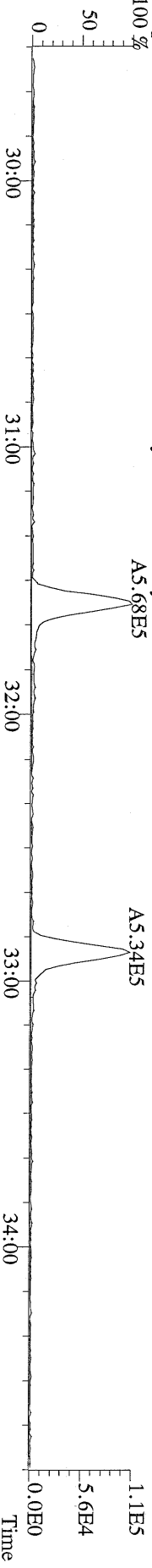


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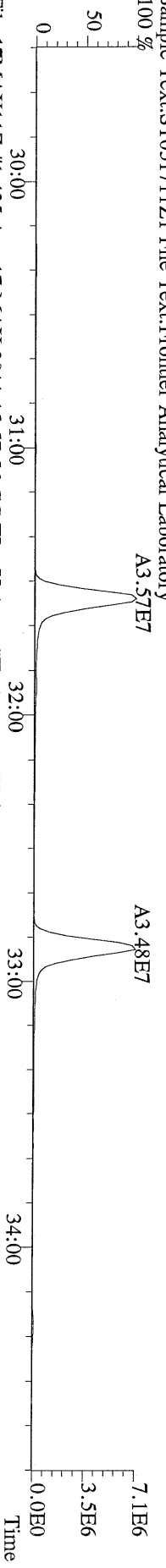
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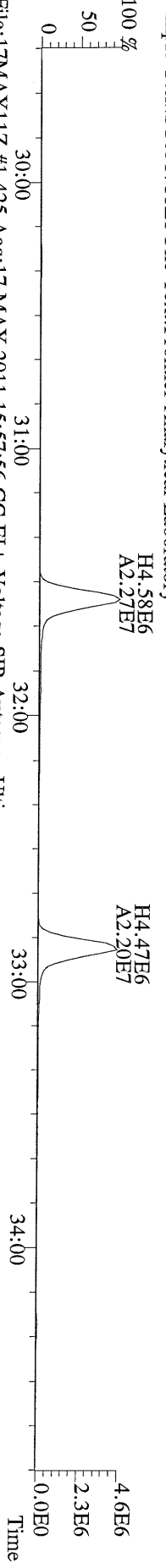
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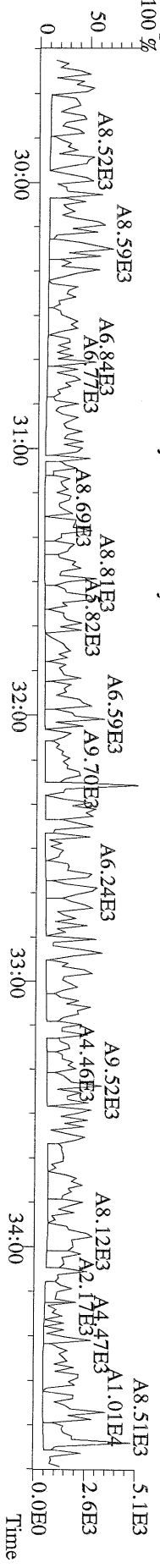
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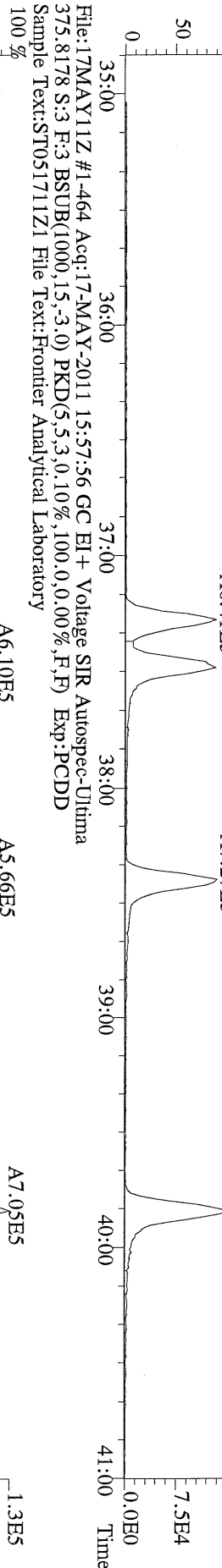
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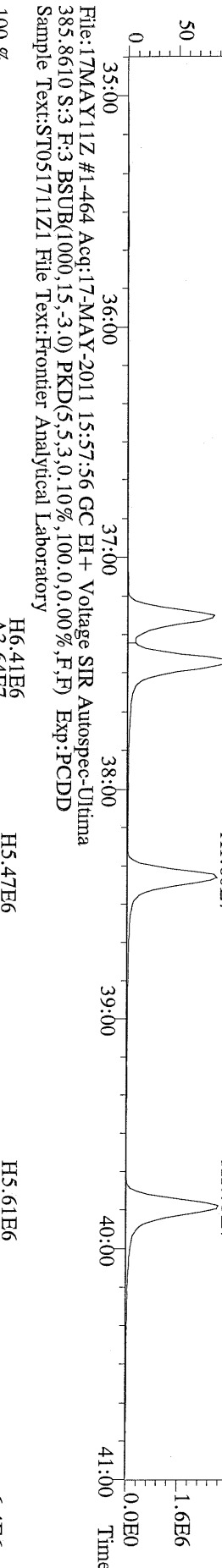
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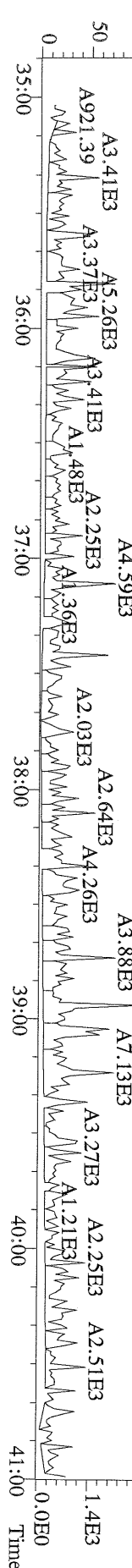
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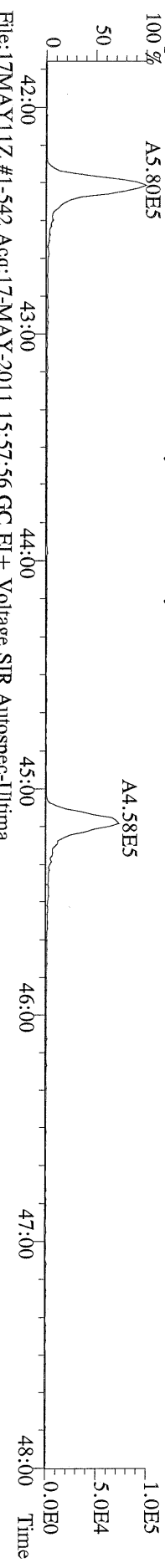
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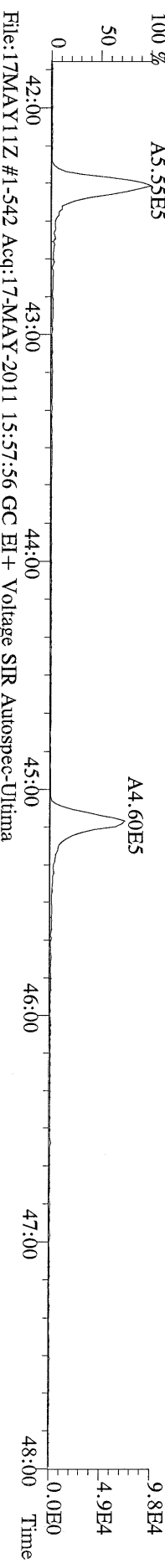
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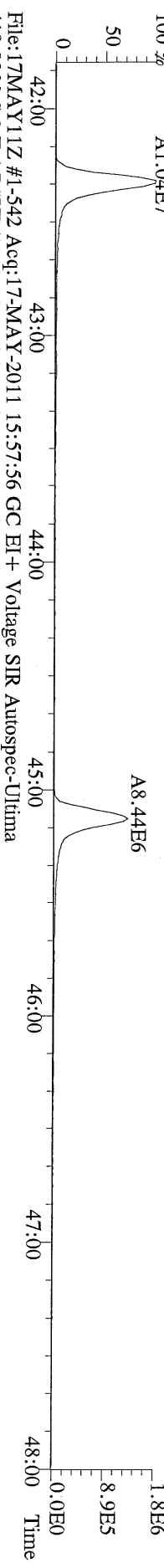
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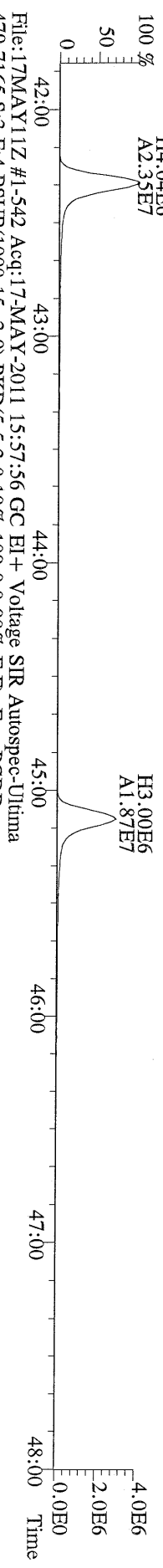
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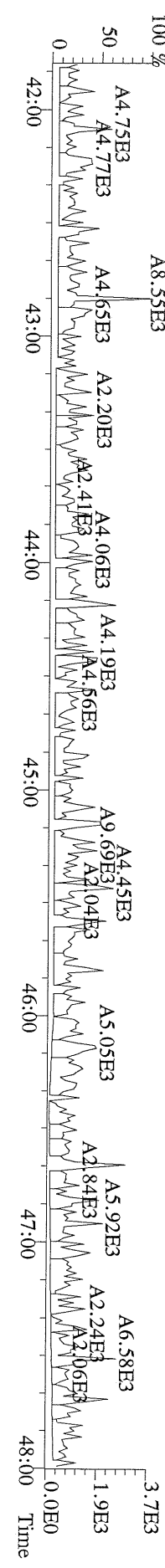
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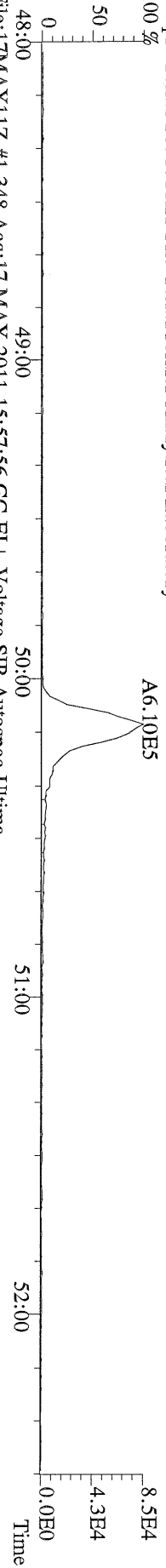
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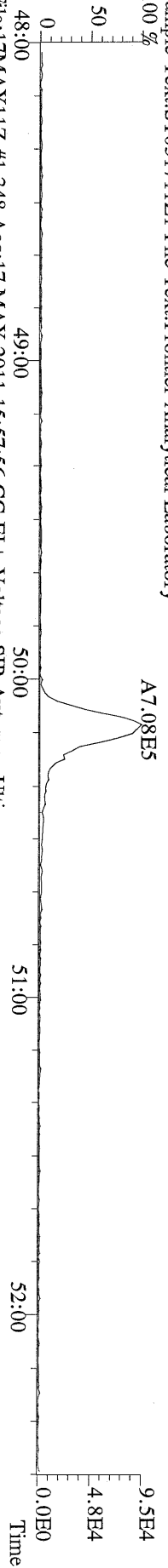
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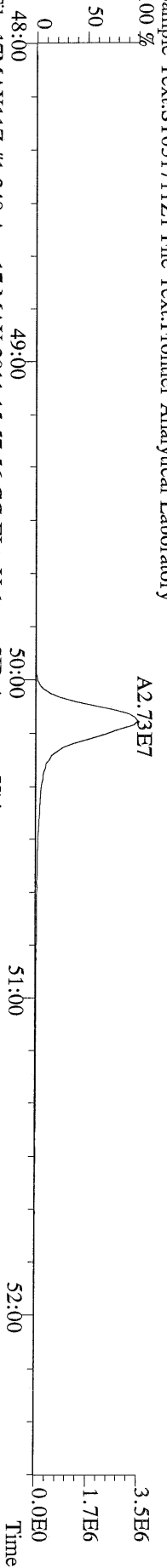
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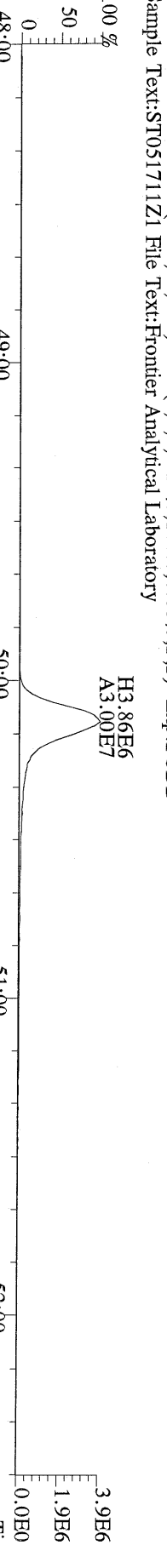
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443.7398 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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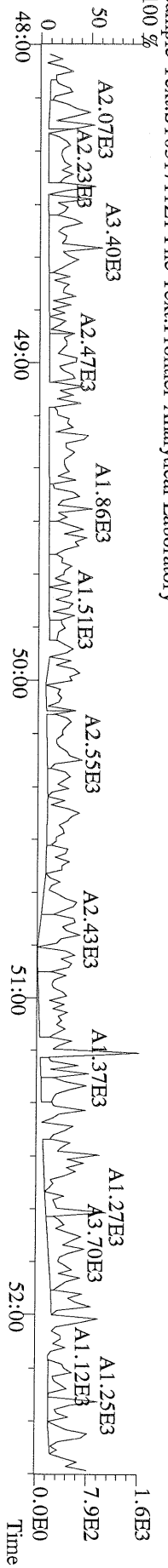
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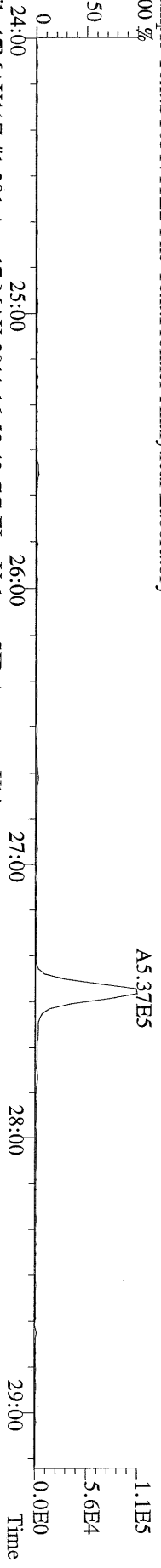
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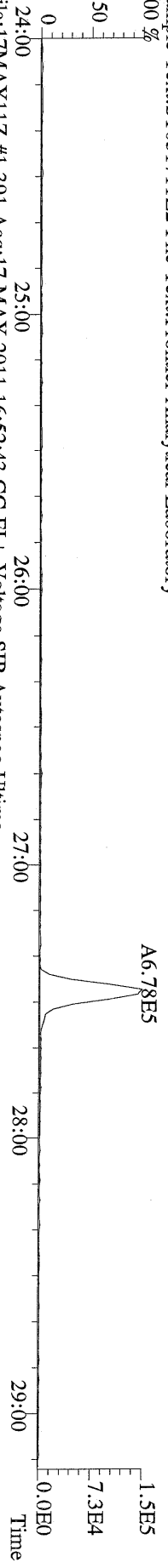
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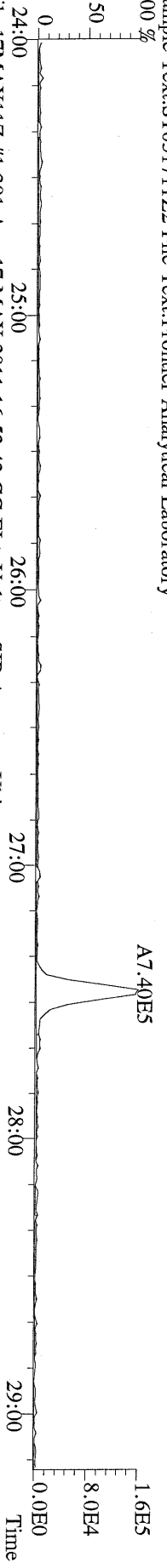
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
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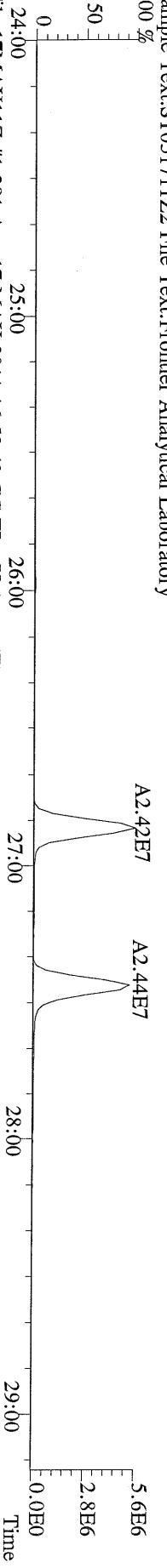
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
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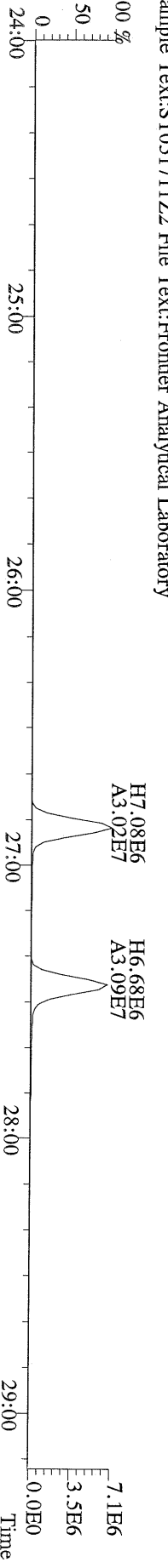
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
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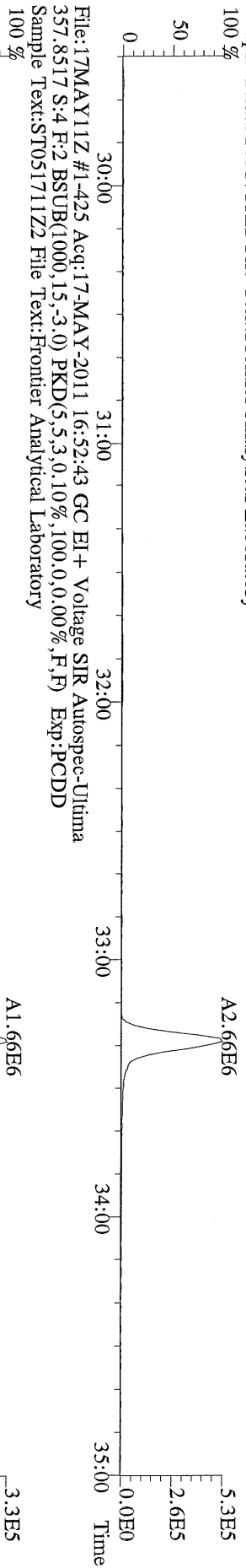
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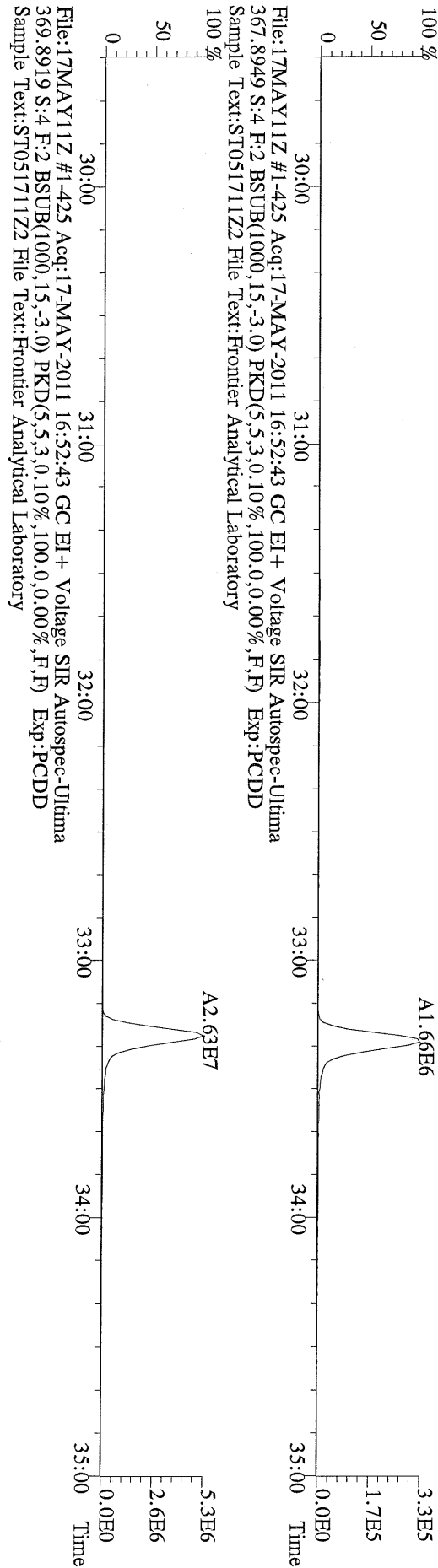
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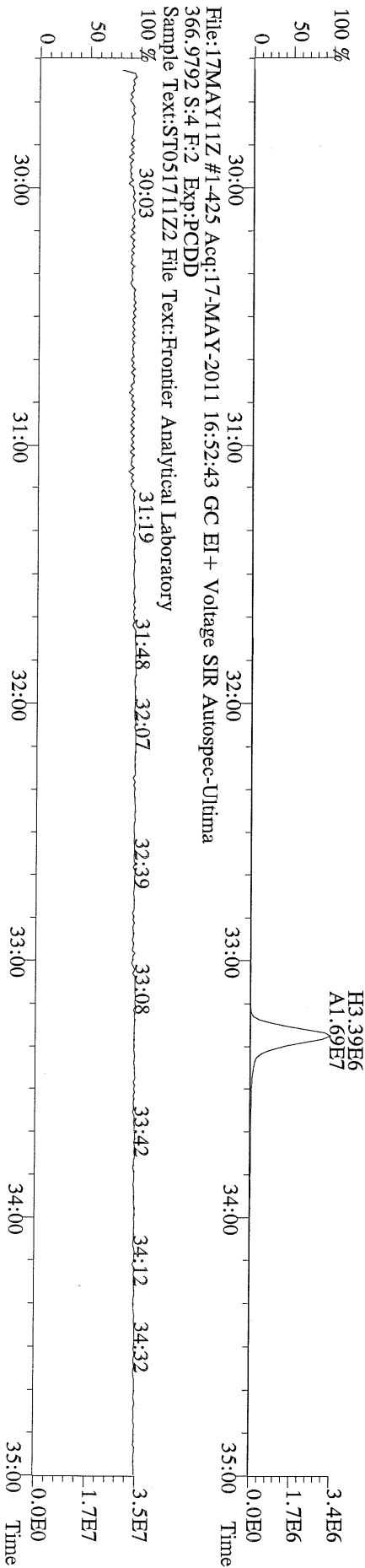
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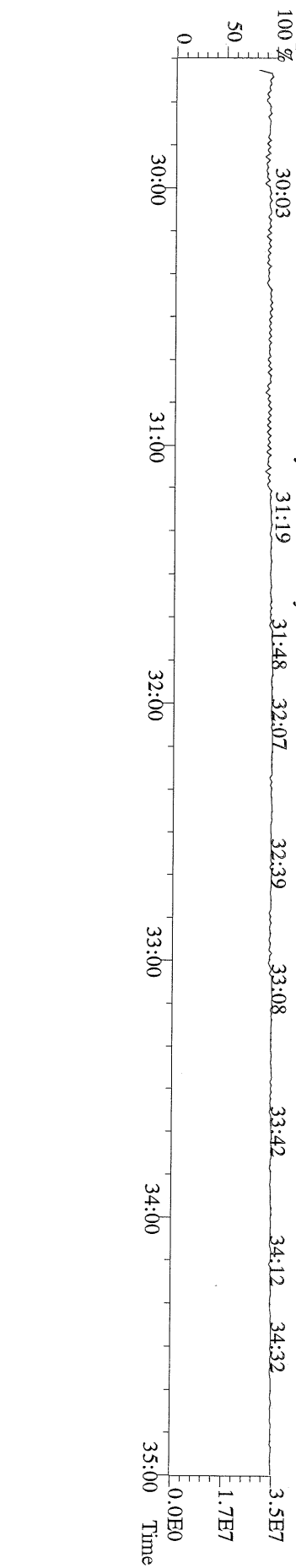
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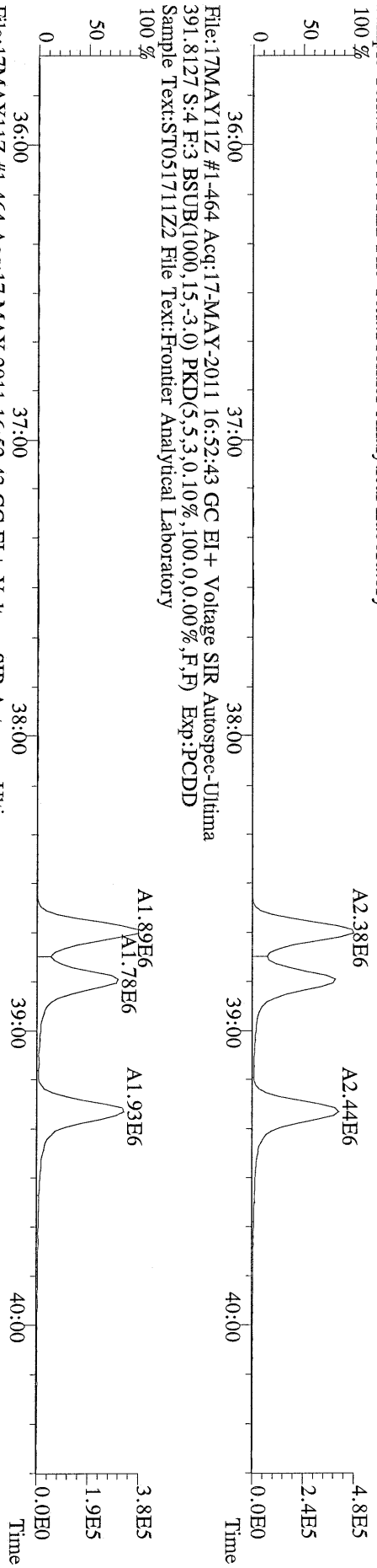
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100 %



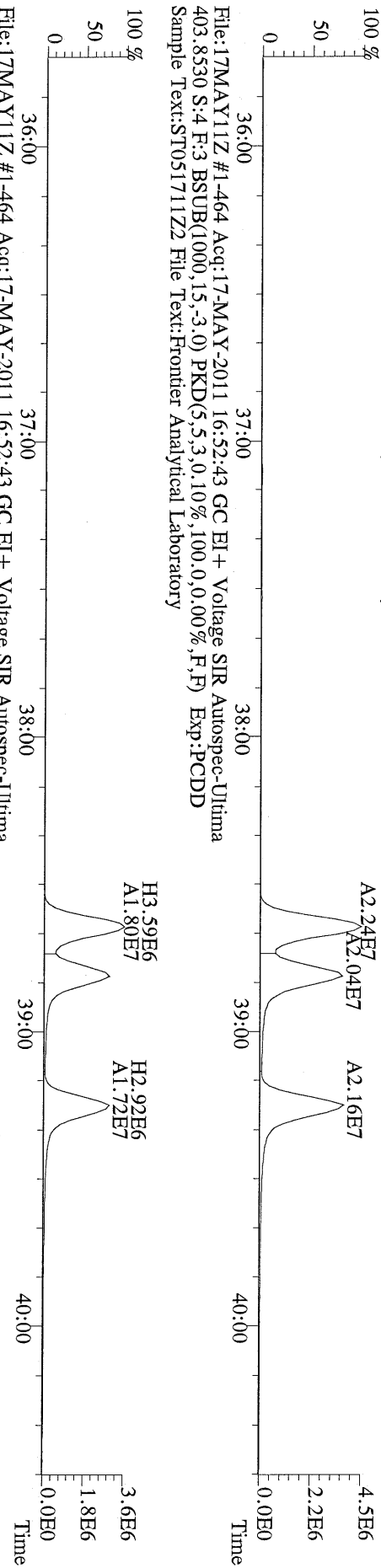
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
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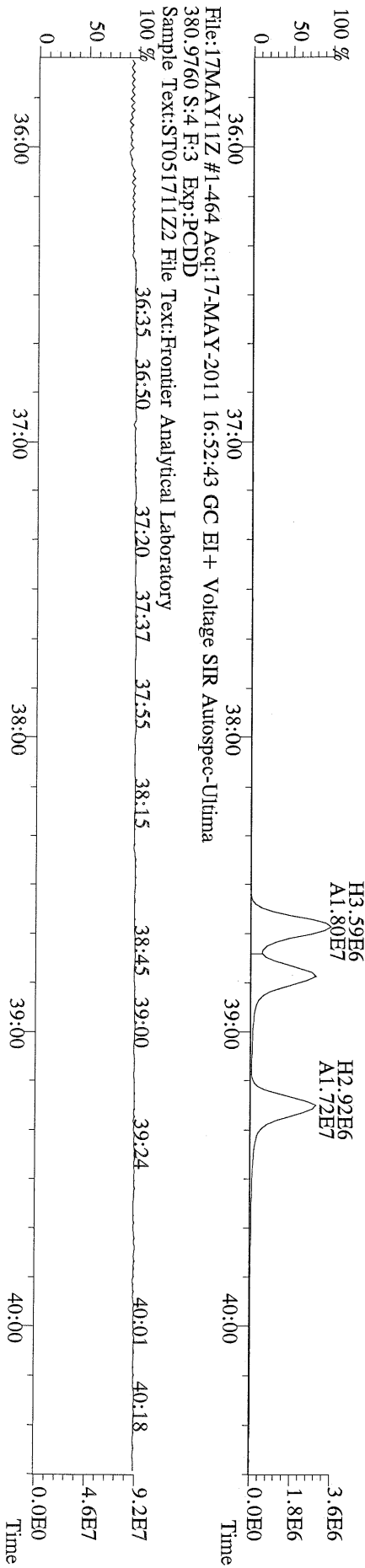
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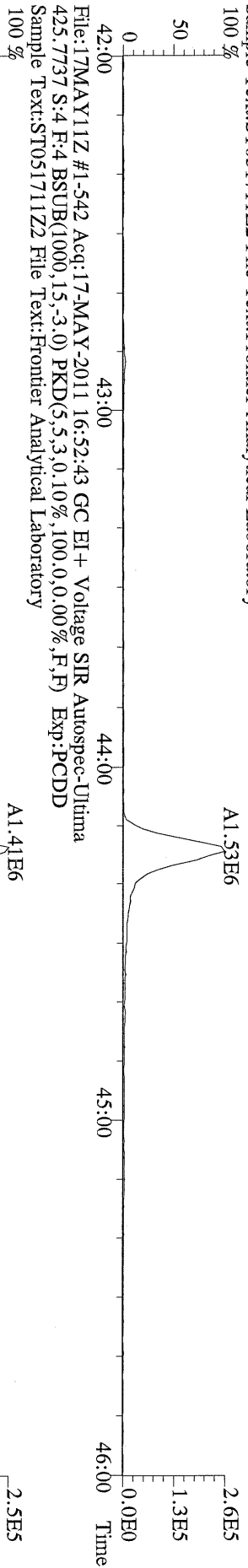
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



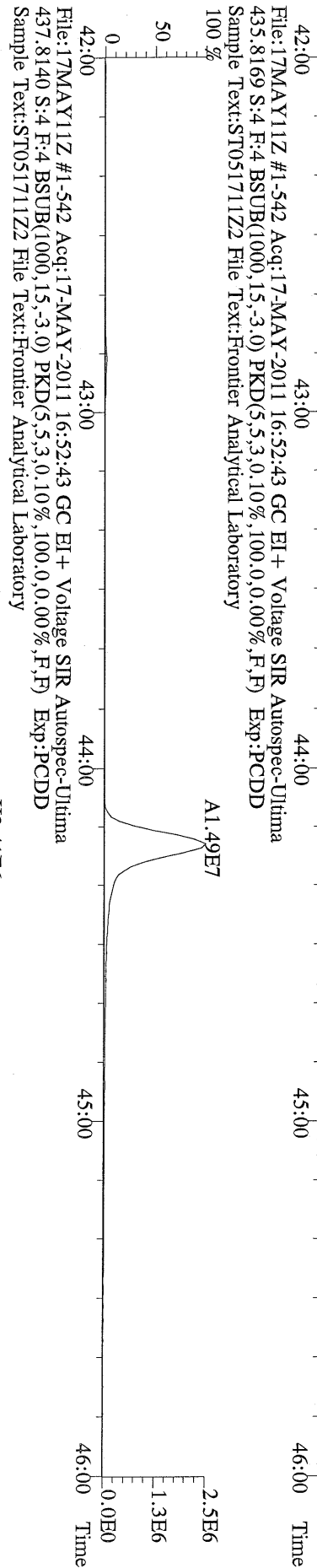
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



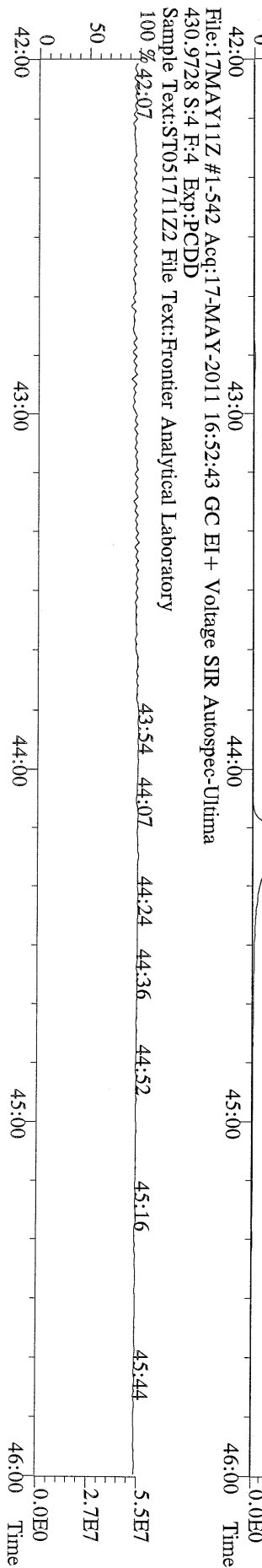
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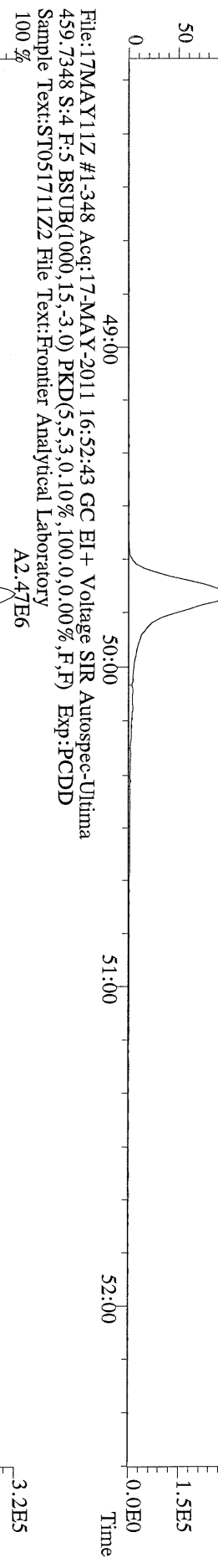
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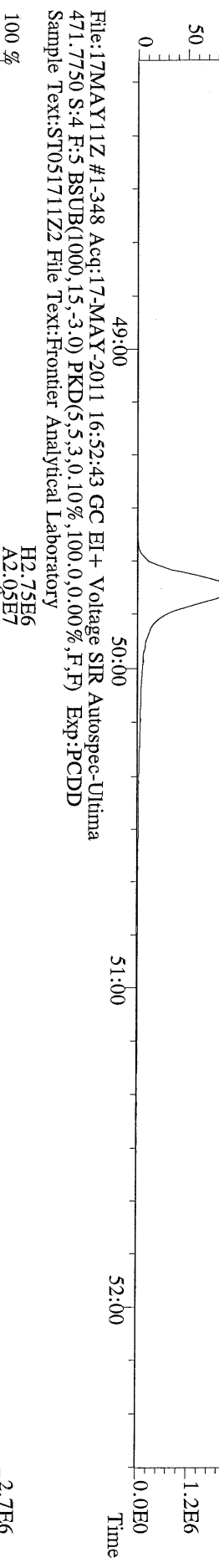
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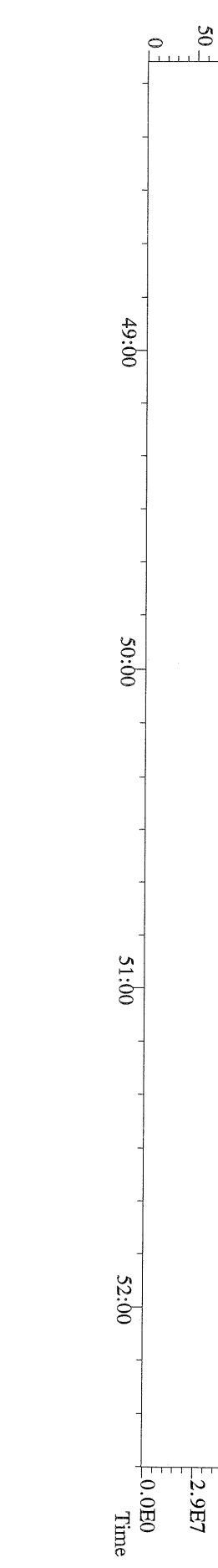
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



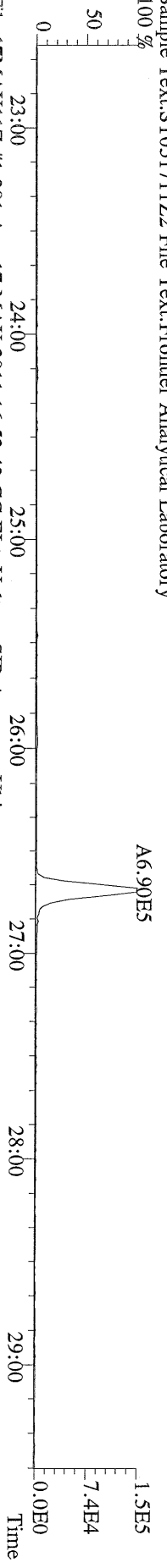
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100 %



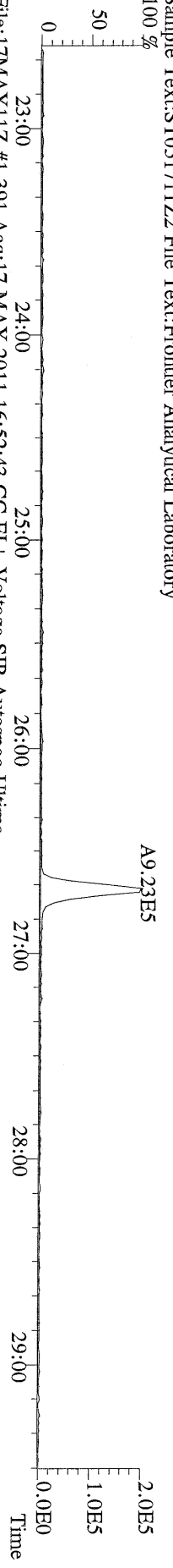
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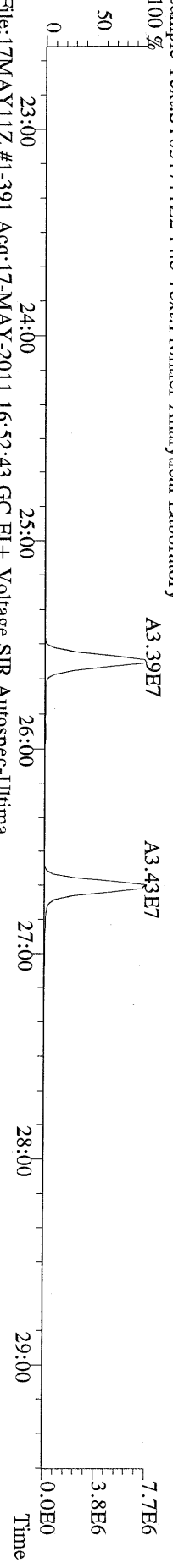
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



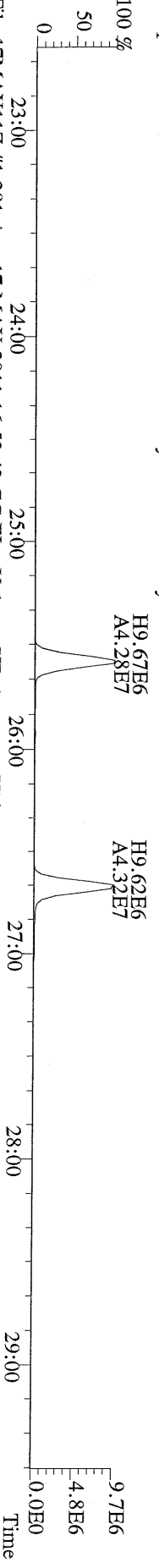
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



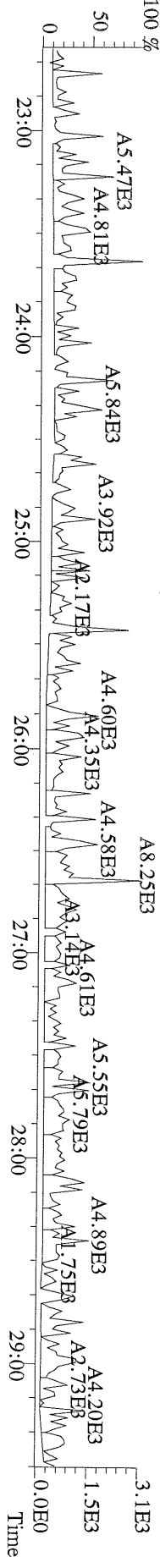
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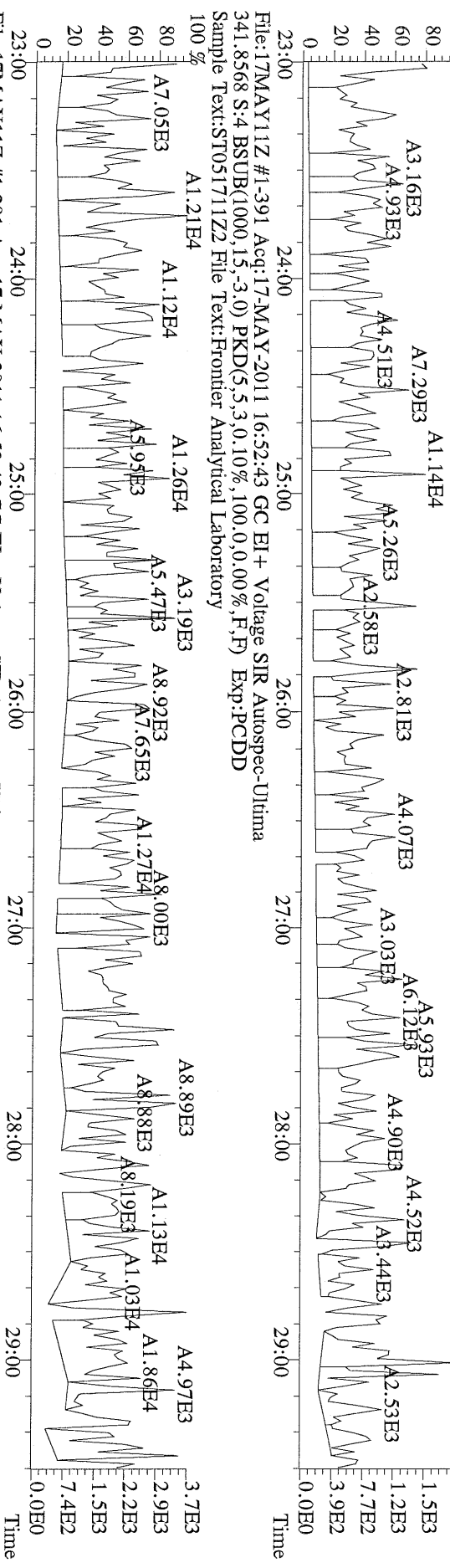
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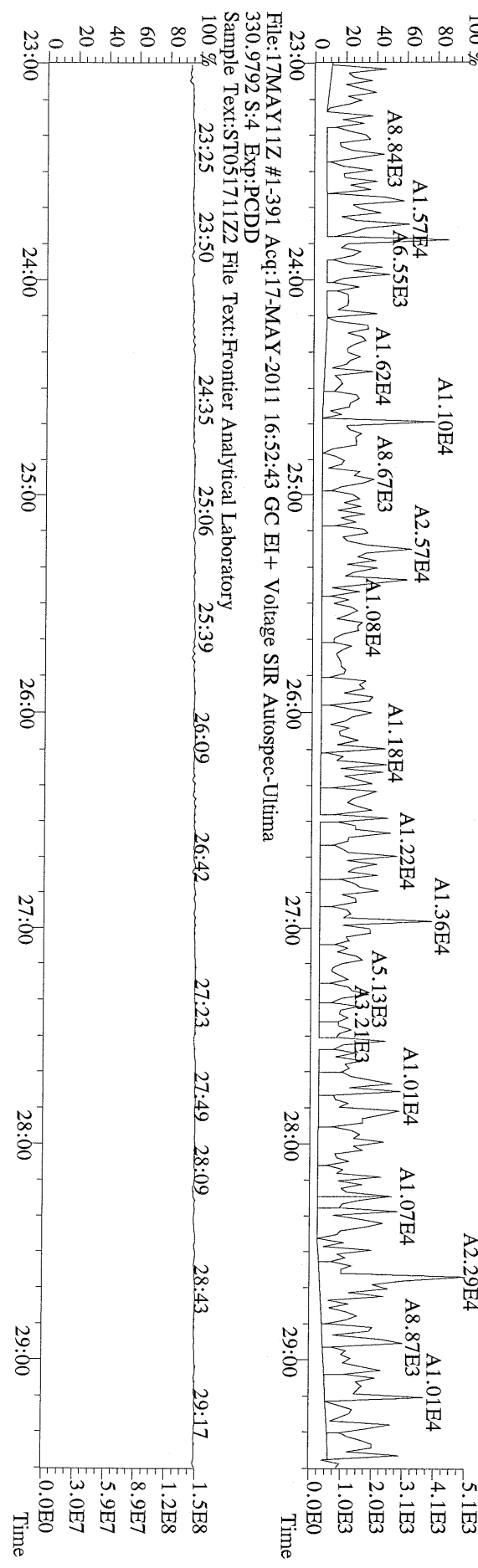
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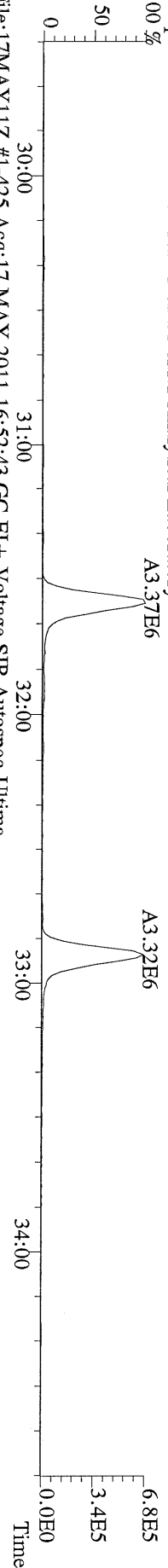
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 Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



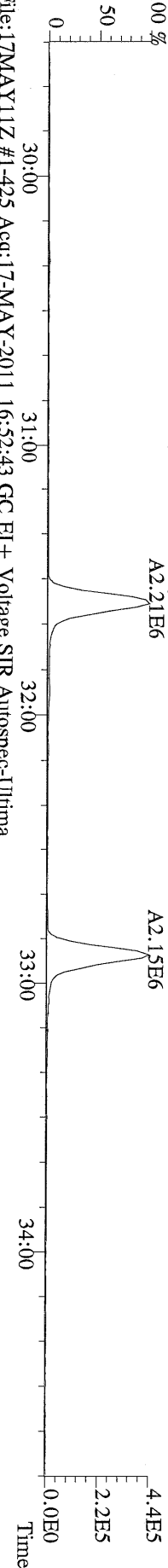
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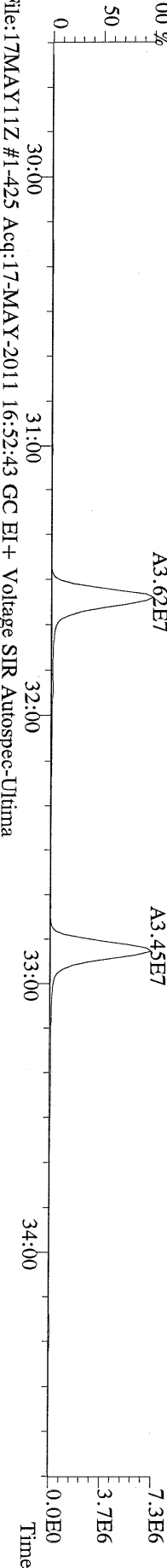
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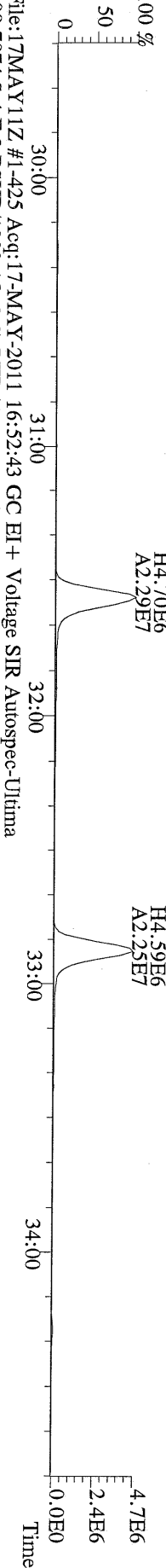
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 Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



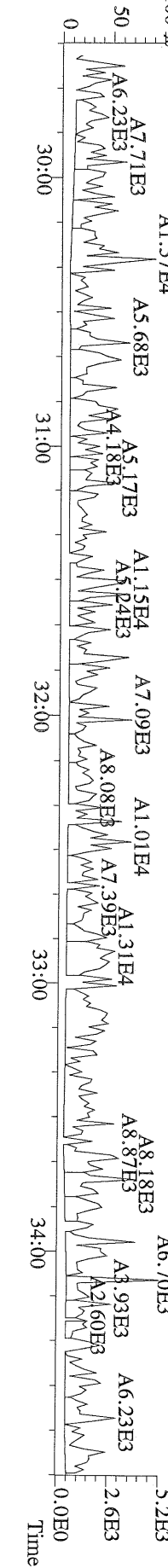
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 Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



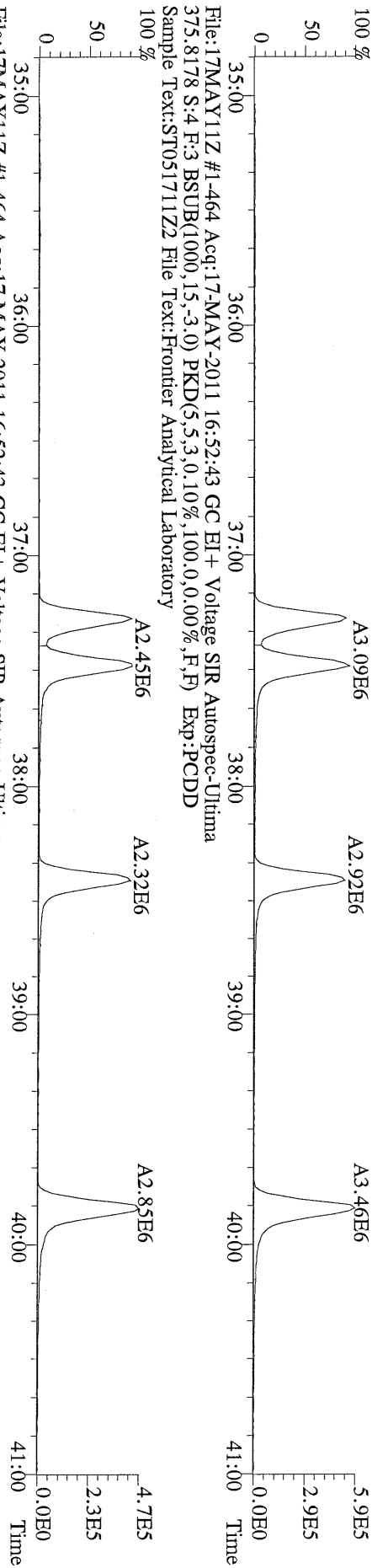
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 Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



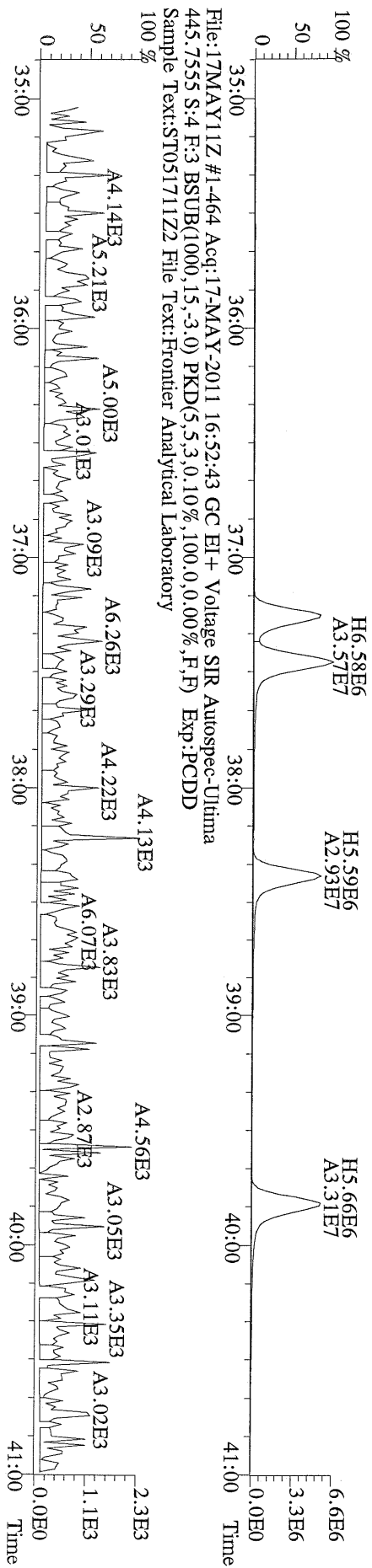
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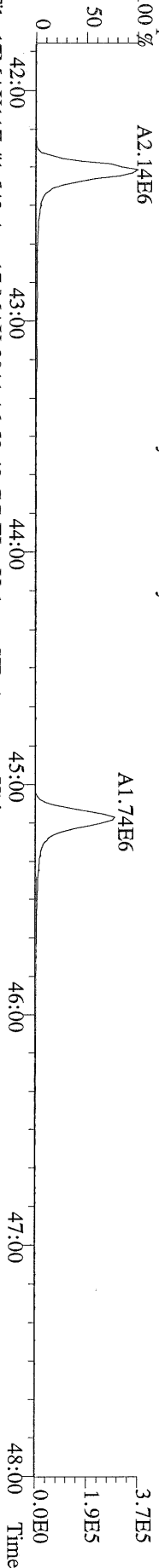
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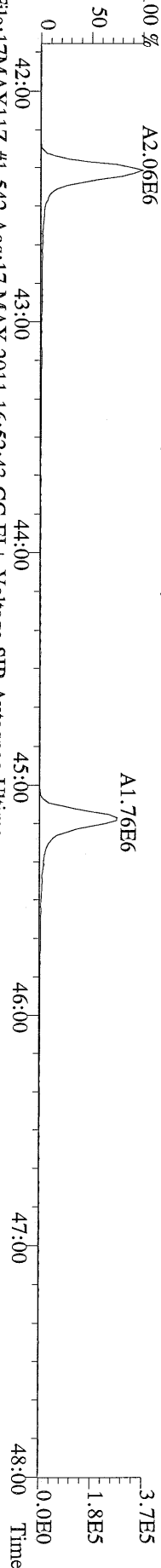
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383.8639 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



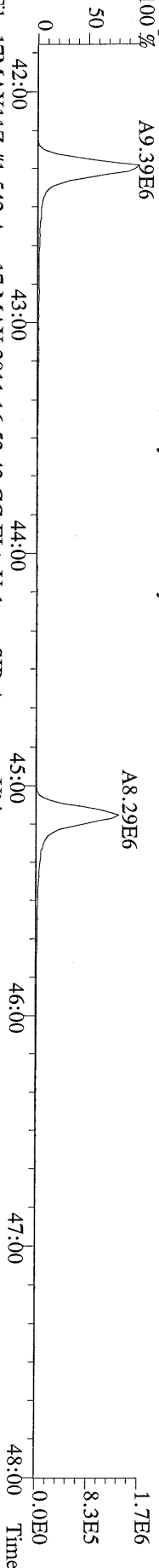
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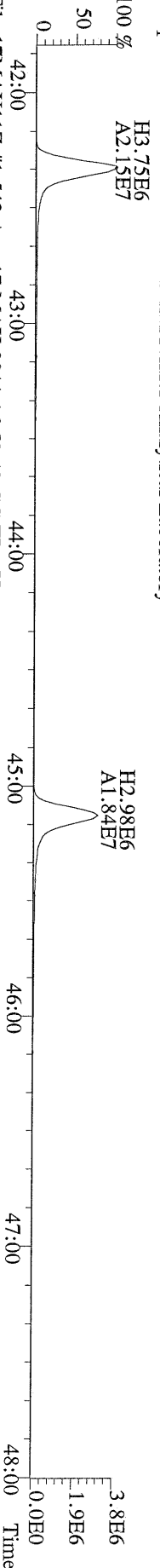
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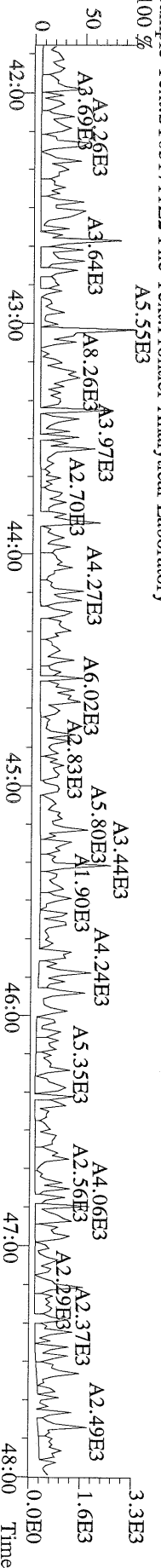
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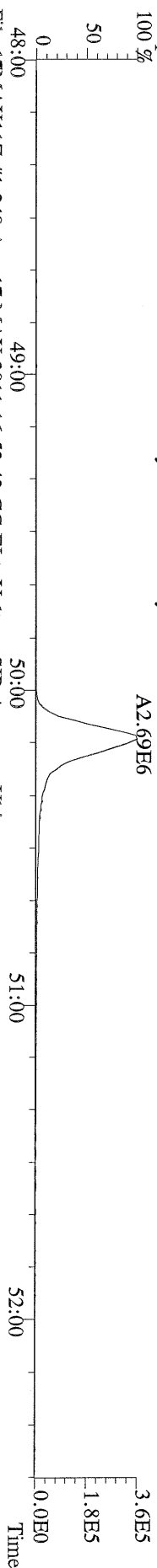
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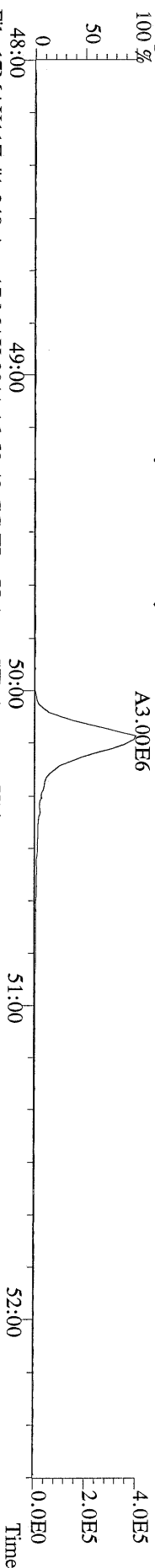
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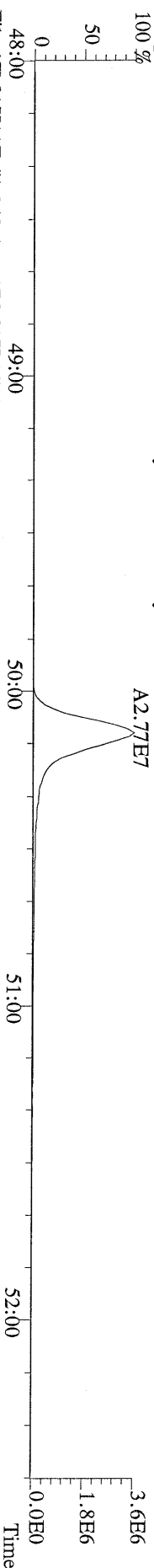
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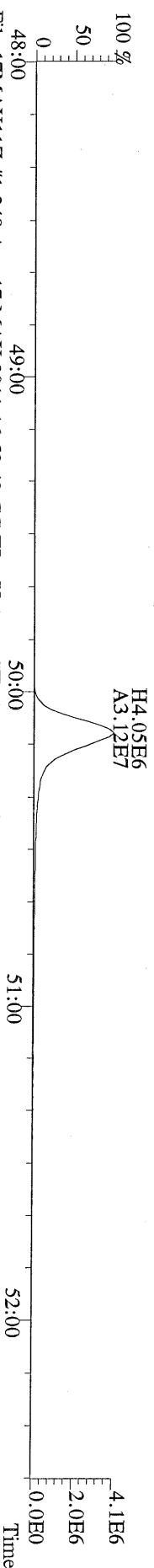
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



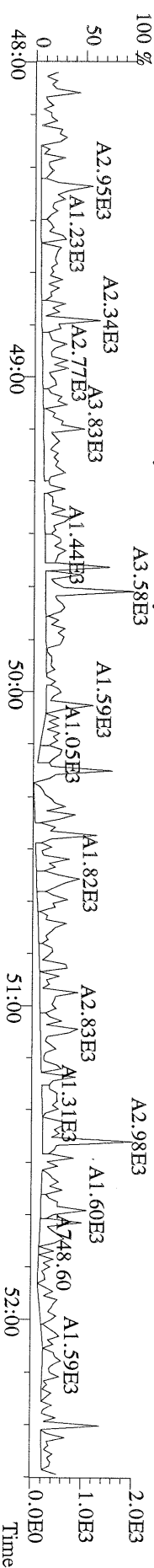
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453.7831 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



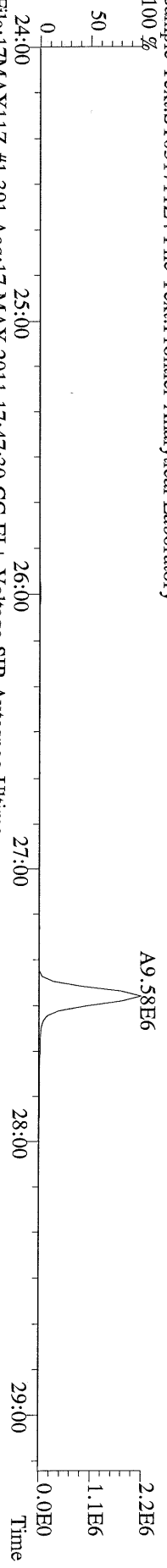
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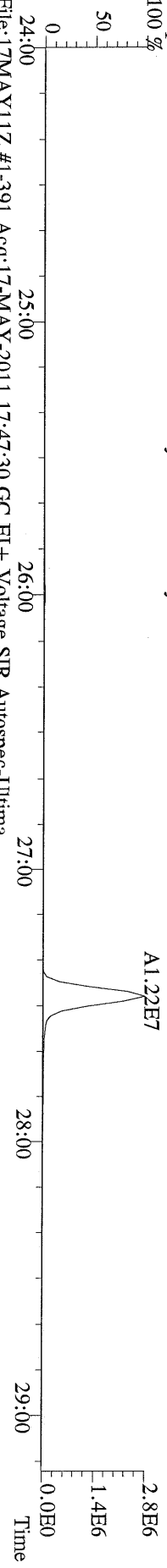
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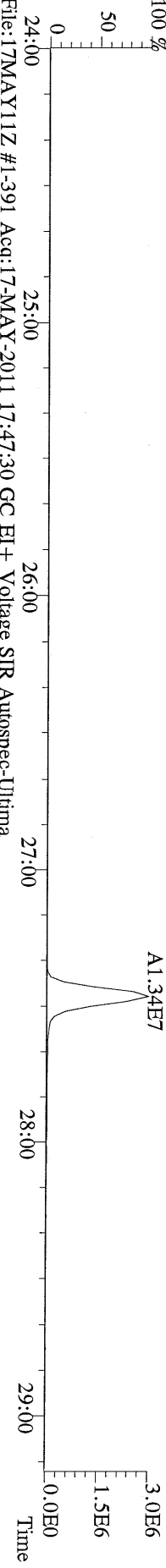
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Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



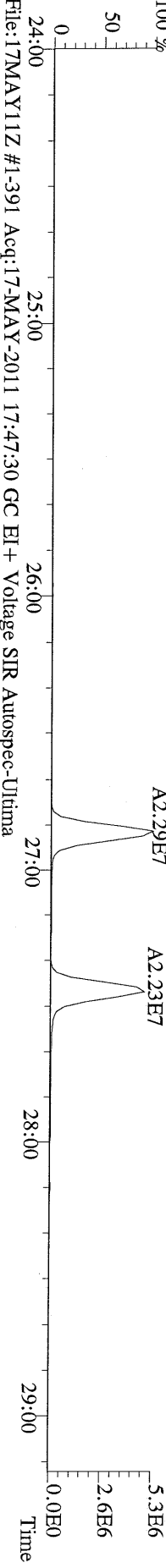
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Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



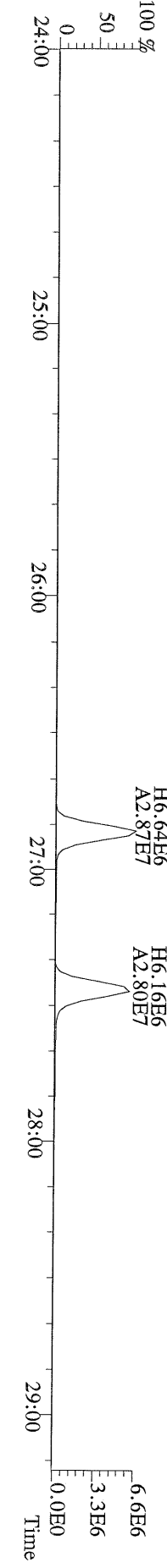
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100 %



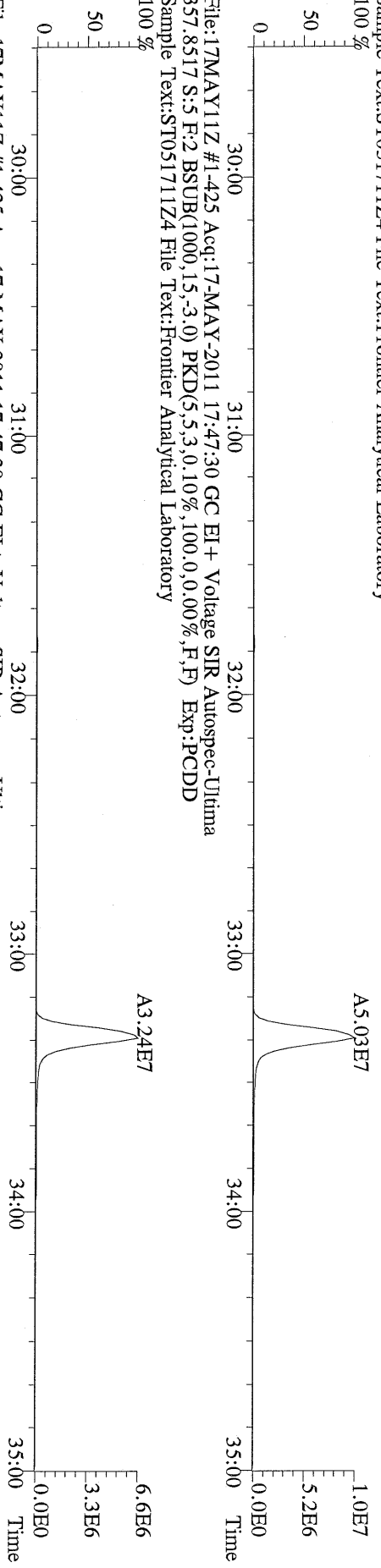
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Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



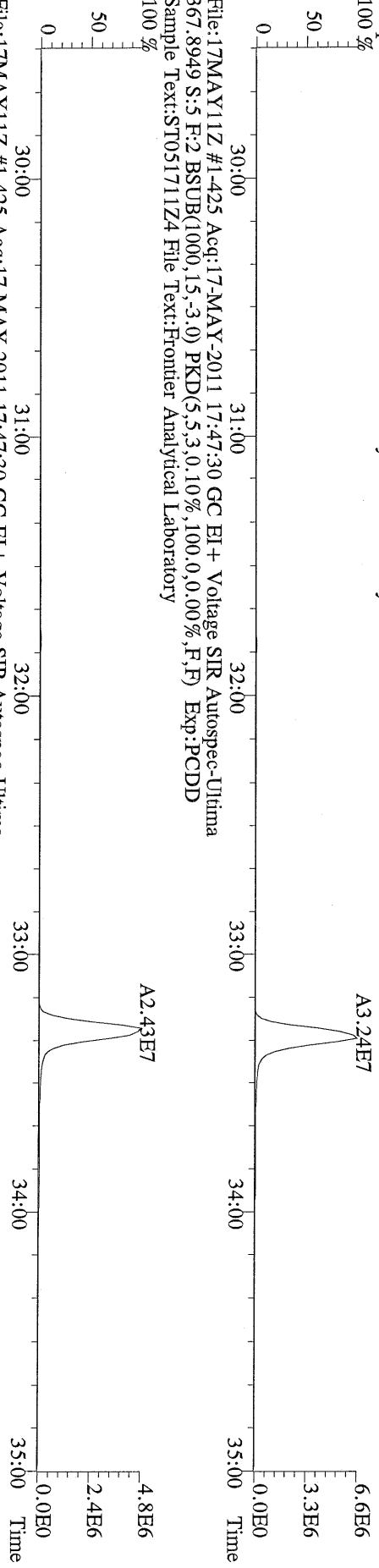
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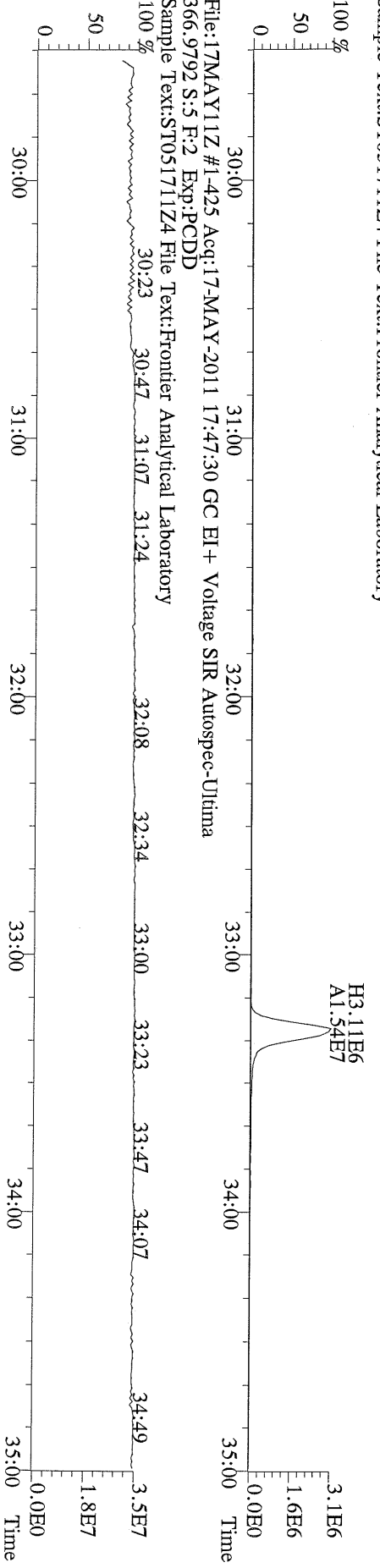
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Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



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
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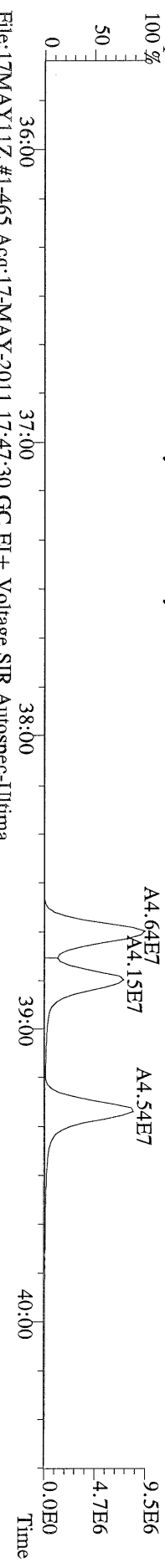
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100 %



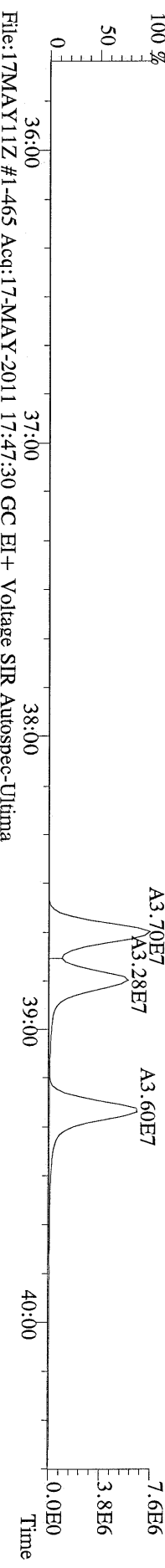
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366.9792 S:5 F:2 Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %

30:00 31:00 32:00 33:00 34:00 35:00
Time
3.5E7
1.8E7
0.0E0

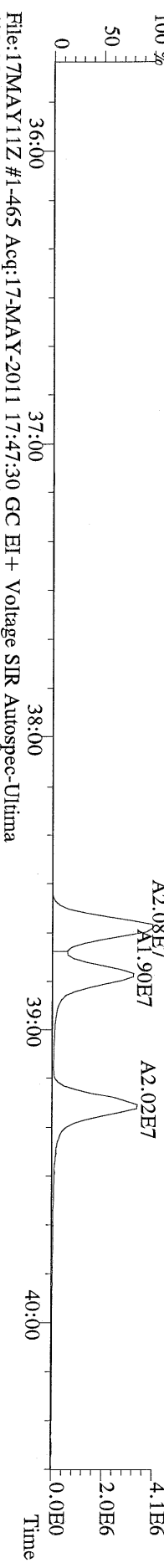
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 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



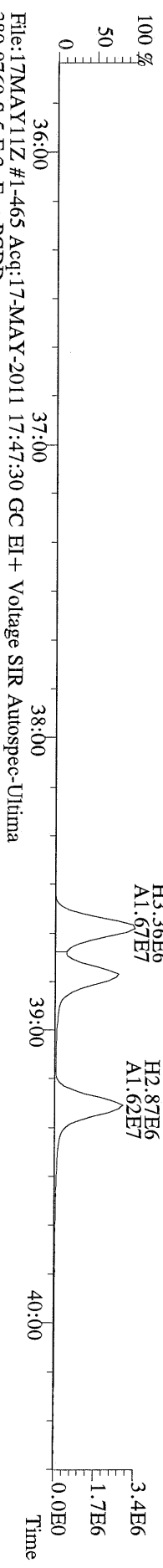
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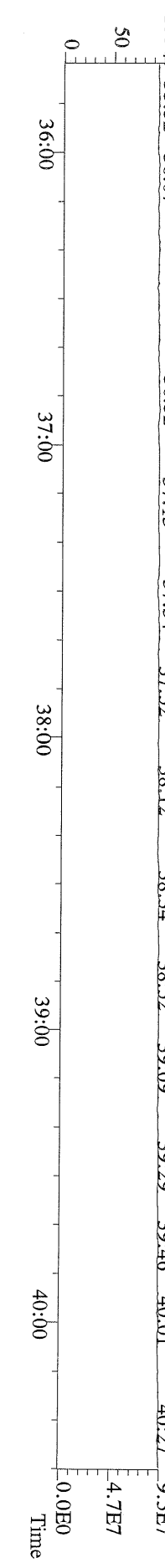
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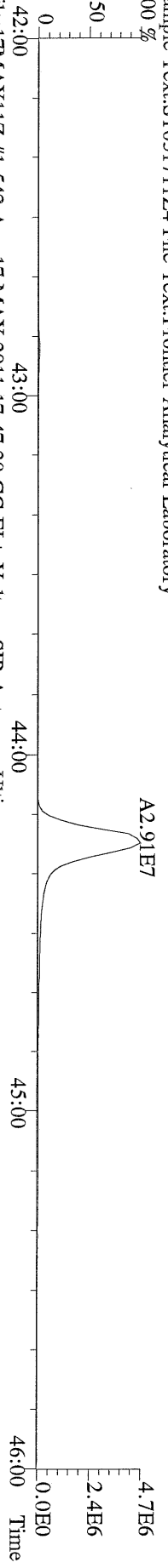
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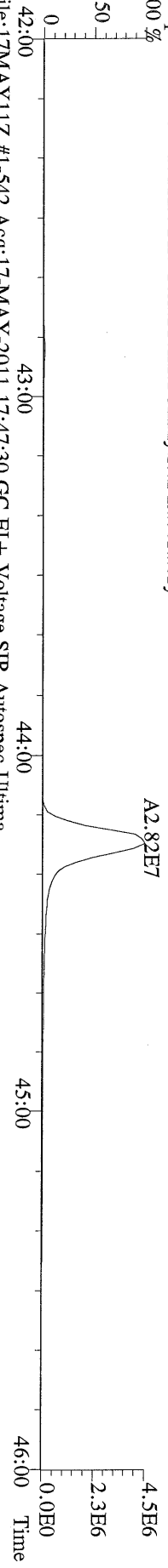
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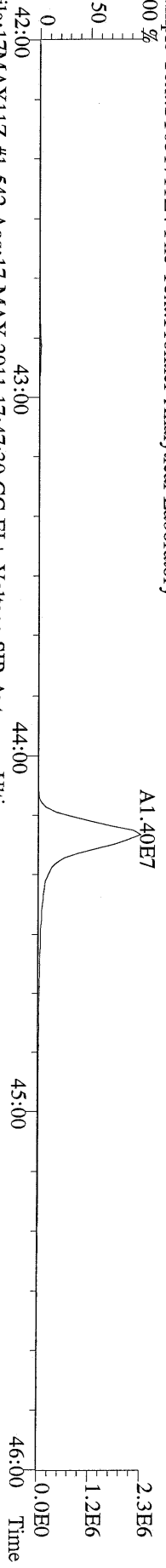
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423.7767 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



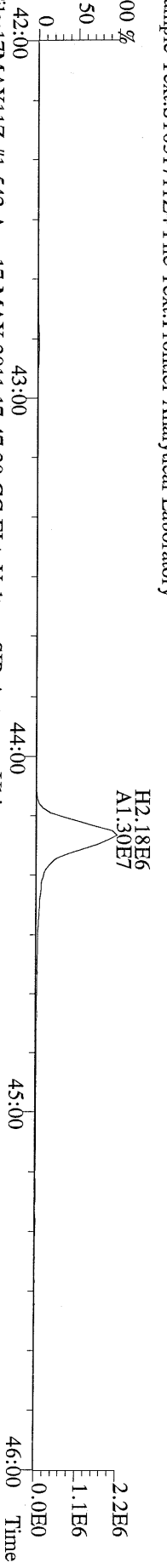
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425.7737 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



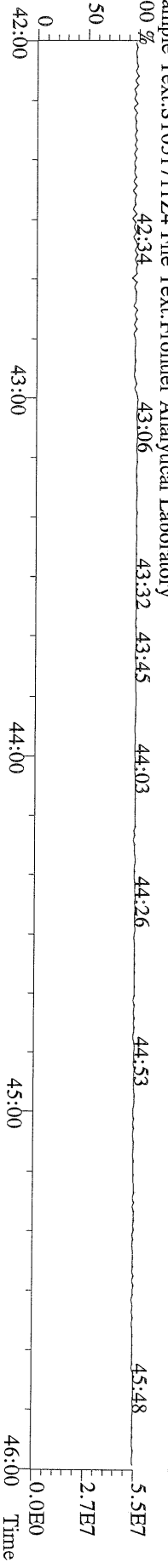
File:17MAY11Z #1-542 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Utima
435.8169 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



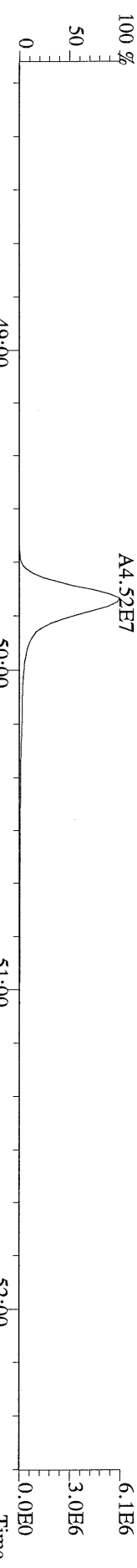
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437.8140 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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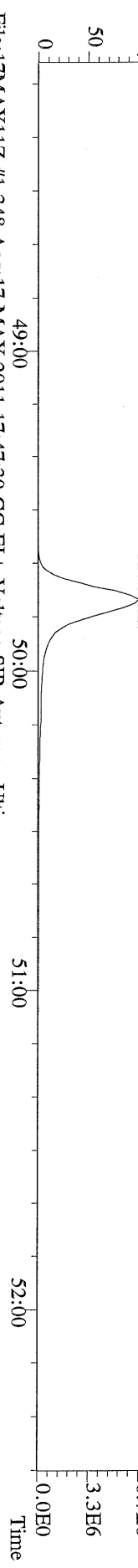
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430.9728 S:5 F:4 Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



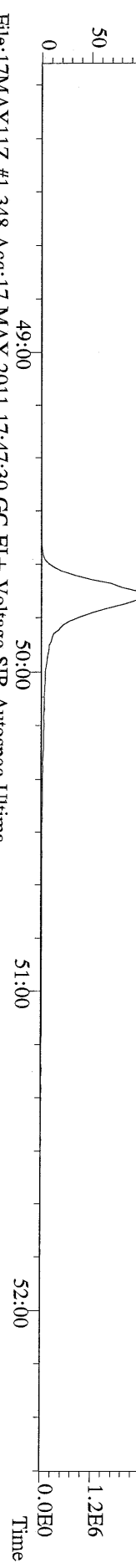
File:17MAY11Z #1-348 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



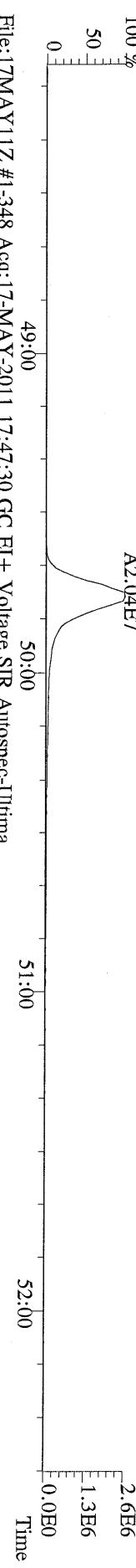
File:17MAY11Z #1-348 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



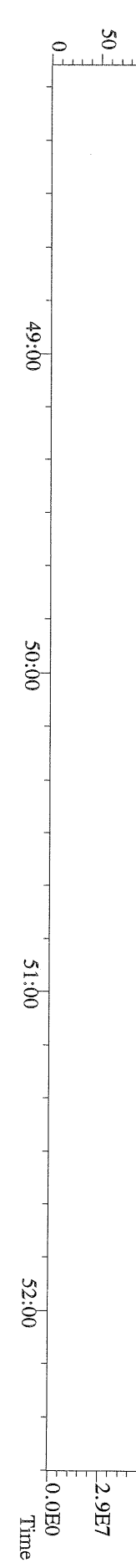
File:17MAY11Z #1-348 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



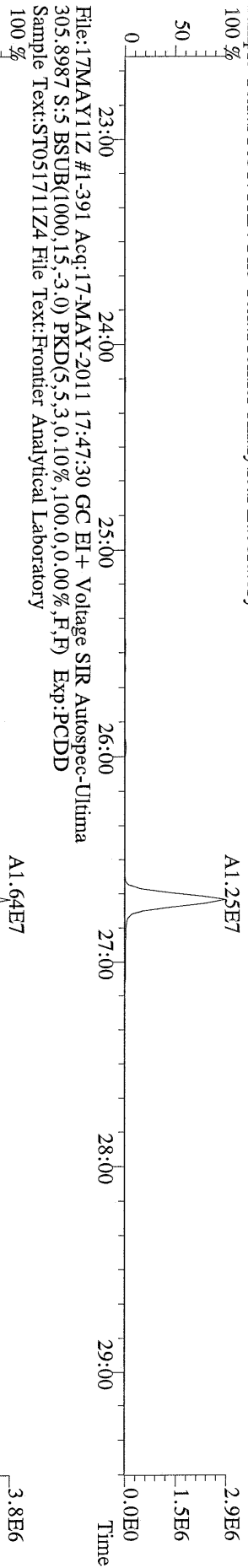
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471.7750 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



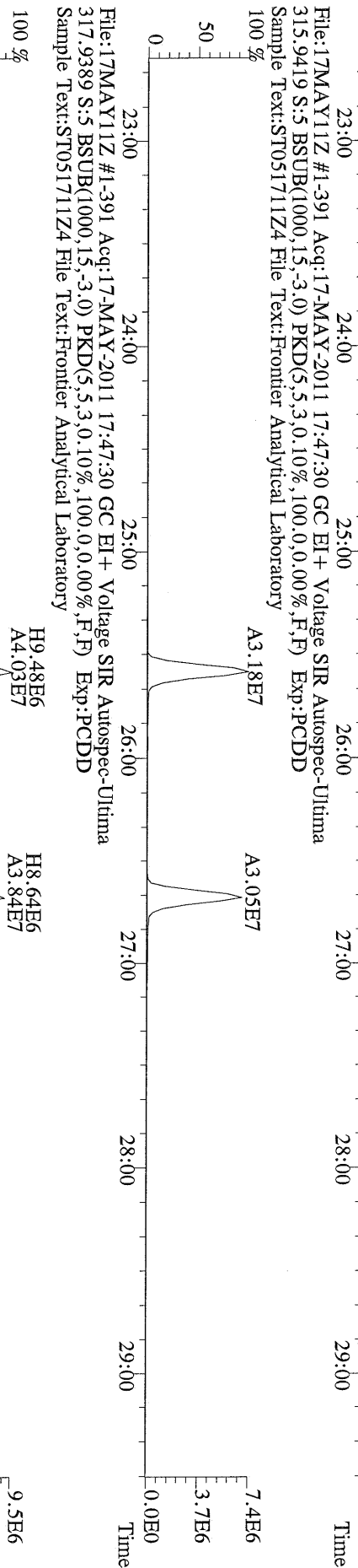
File:17MAY11Z #1-348 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:5 F:5 Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



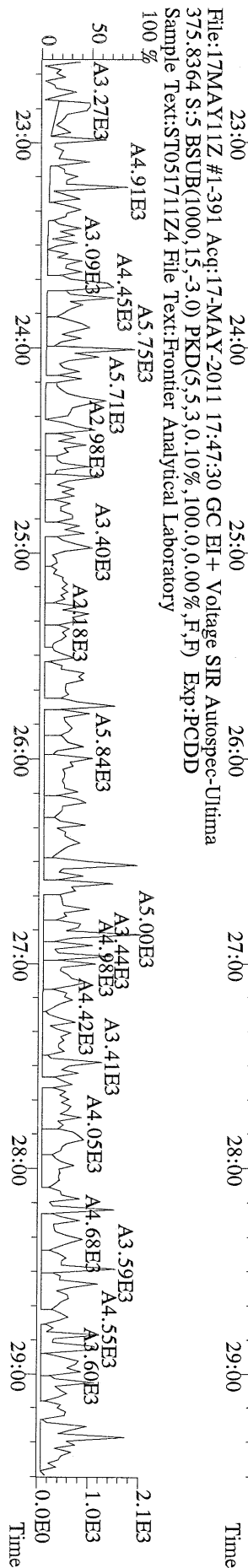
File:17MAY11Z #1-391 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



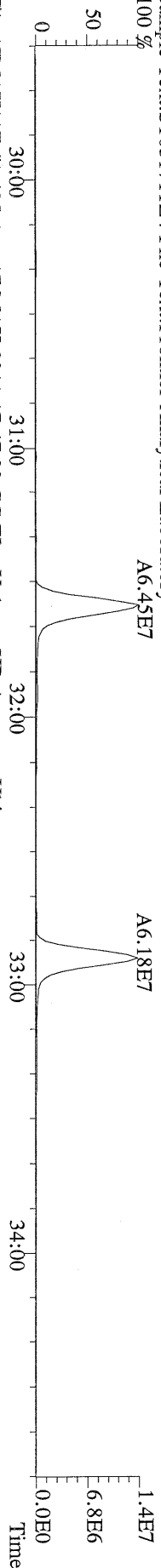
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315.9419 S:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



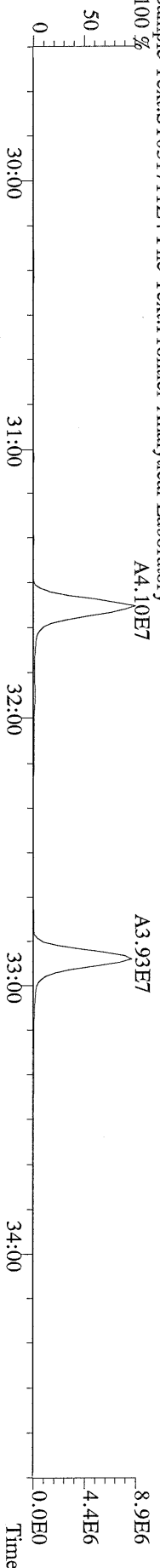
File:17MAY11Z #1-391 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



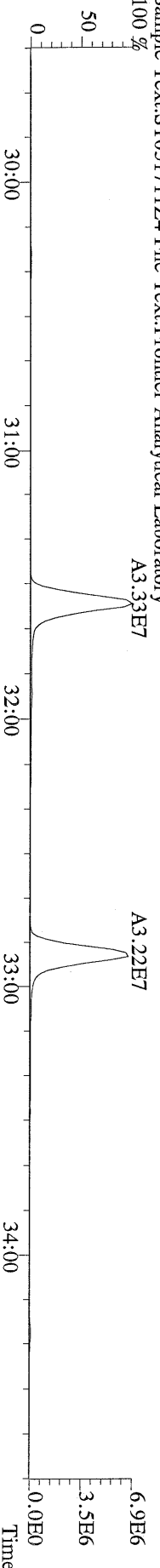
File:17MAY11Z #1-425 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



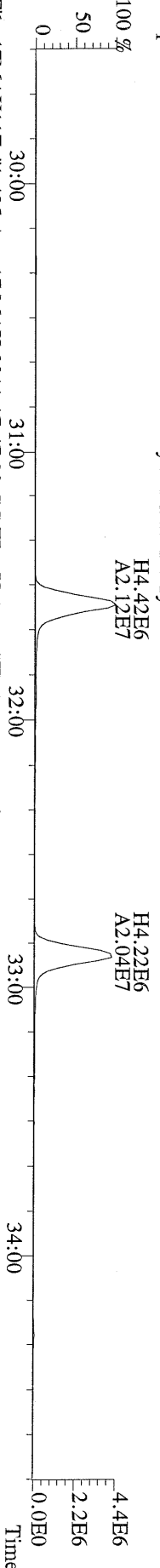
File:17MAY11Z #1-425 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



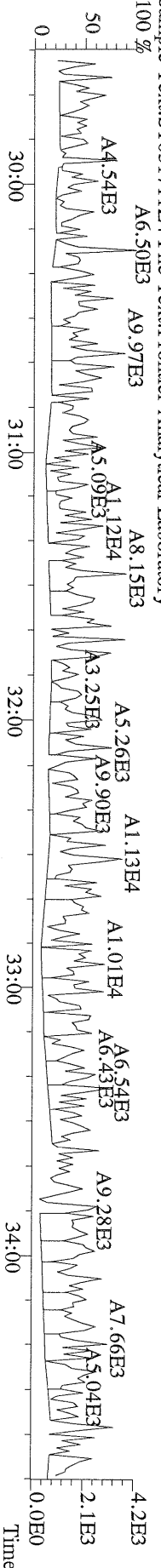
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 351.9000 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



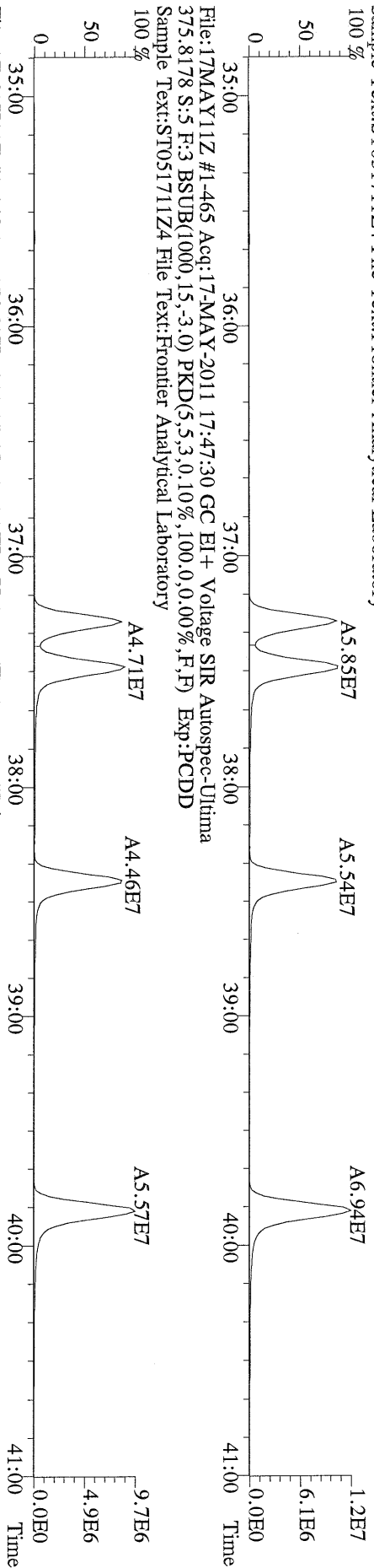
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 353.8970 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



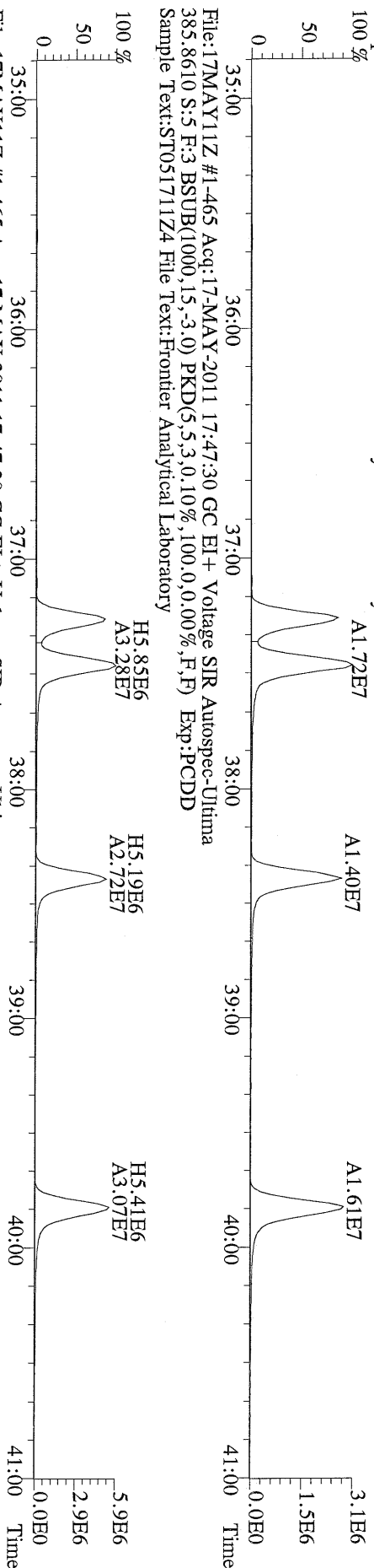
File:17MAY11Z #1-425 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



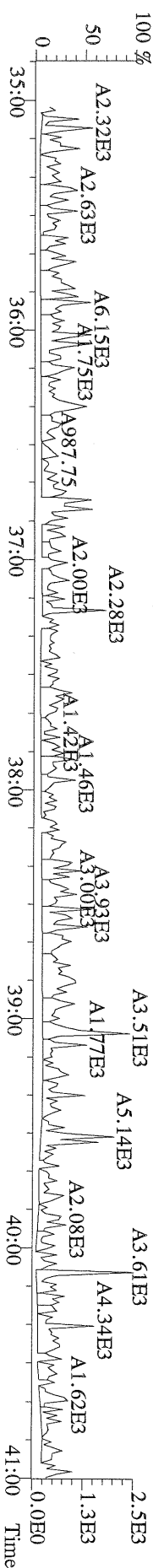
File:17MAY11Z #1-465 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



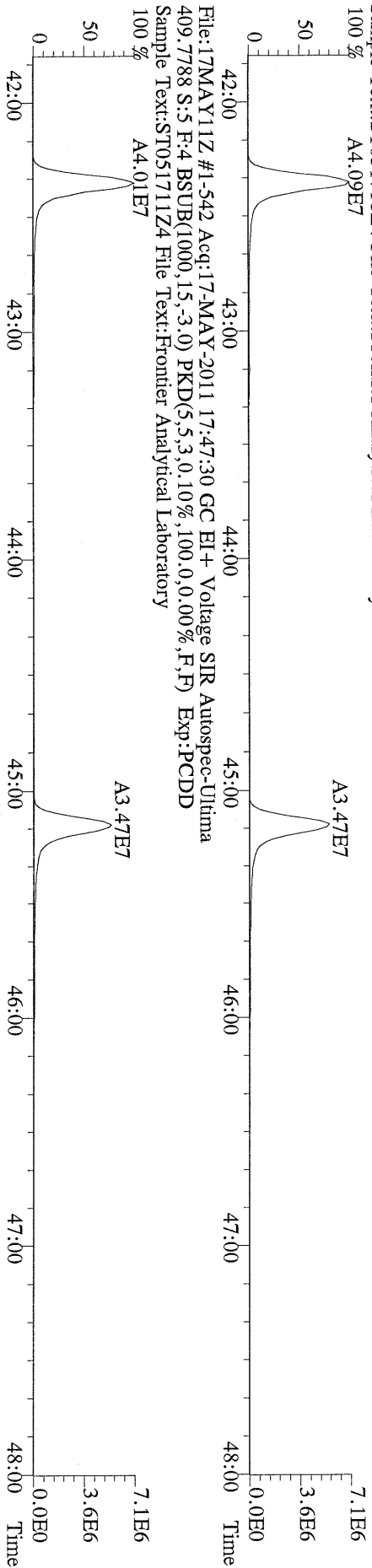
File:17MAY11Z #1-465 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



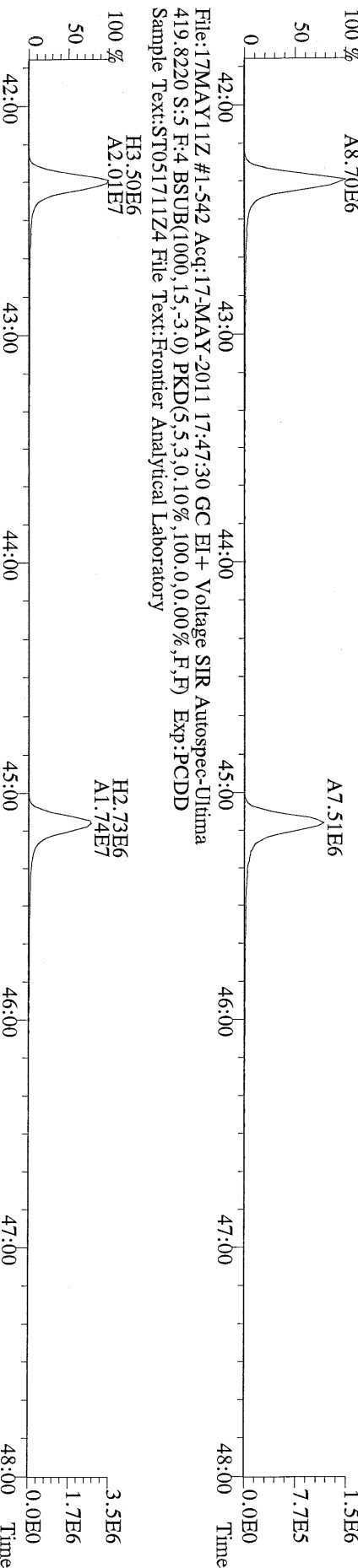
File:17MAY11Z #1-465 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



File:17MAY11Z #1-542 Acq:17-MAY-2011 17:47:30 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S.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
417.8253 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
419.8220 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

