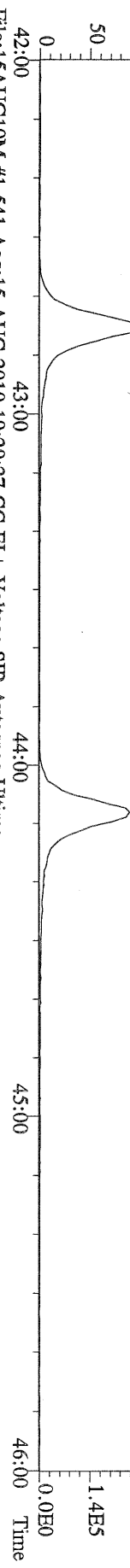
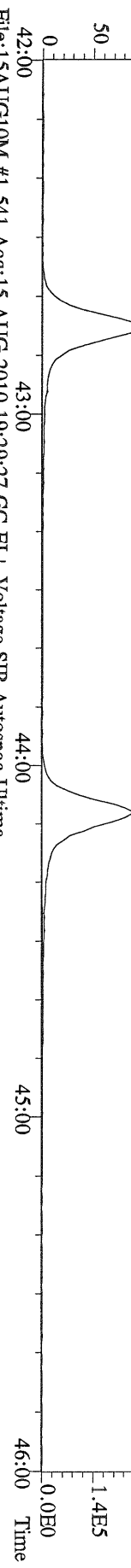


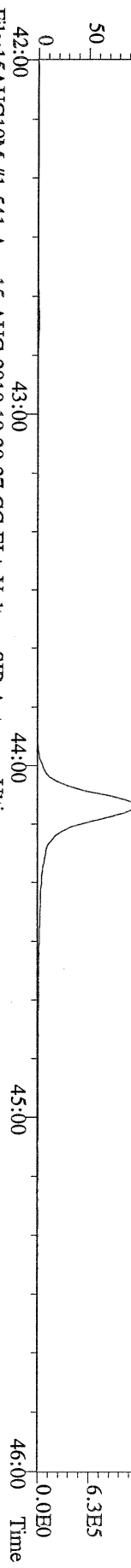
File:15AUG10M #1-541 Acq:15-AUG-2010 19:29:27 GC EI + Voltage SIR Autospec-Ultima
 423.7737 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100 % A1.77E6



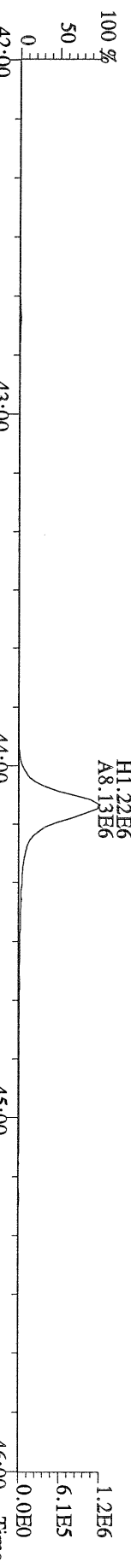
File:15AUG10M #1-541 Acq:15-AUG-2010 19:29:27 GC EI + Voltage SIR Autospec-Ultima
 425.7737 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100 % A1.76E6



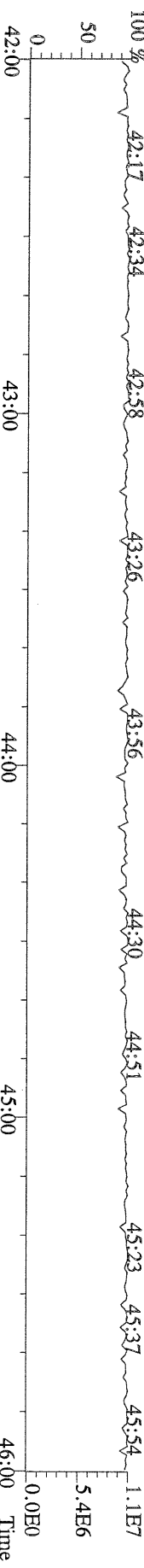
File:15AUG10M #1-541 Acq:15-AUG-2010 19:29:27 GC EI + Voltage SIR Autospec-Ultima
 435.8140 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100 % A8.25E6



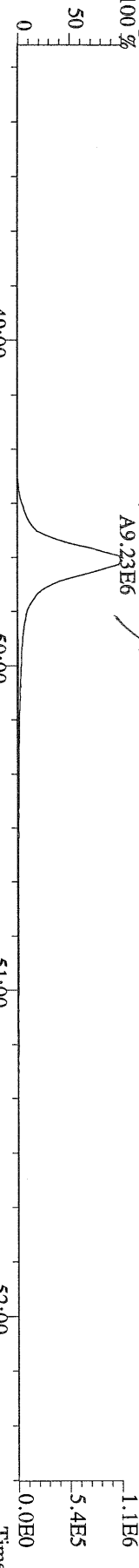
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 437.8140 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100 % A8.13E6



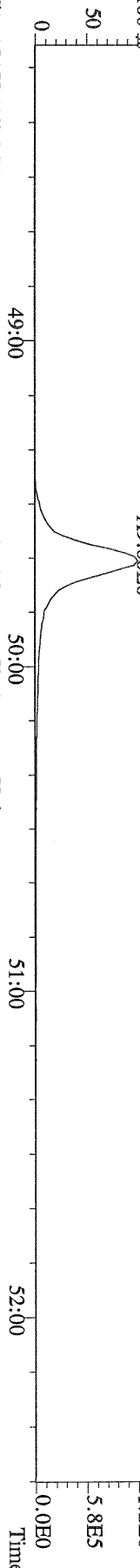
File:15AUG10M #1-541 Acq:15-AUG-2010 19:29:27 GC EI + Voltage SIR Autospec-Ultima
 430.9728 S:9 F:4 Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100 % A1.17E7



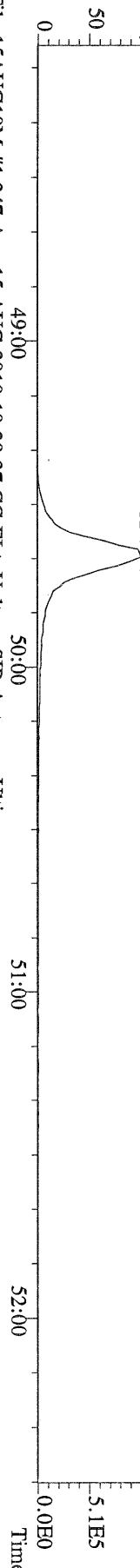
File:15AUG10M #1-347 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100%



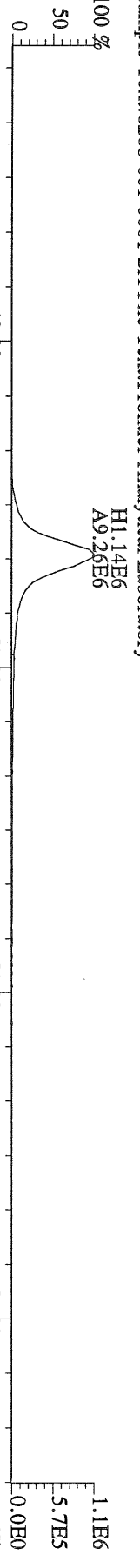
File:15AUG10M #1-347 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 459.7348 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100%



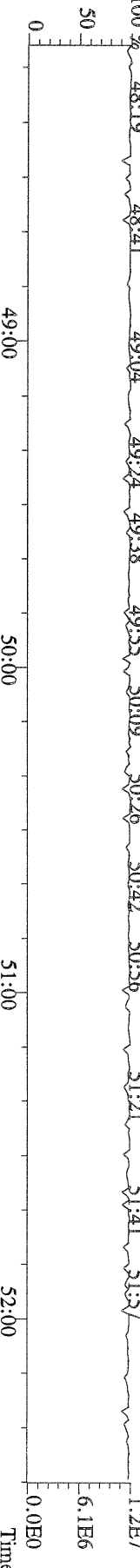
File:15AUG10M #1-347 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 469.7780 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100%



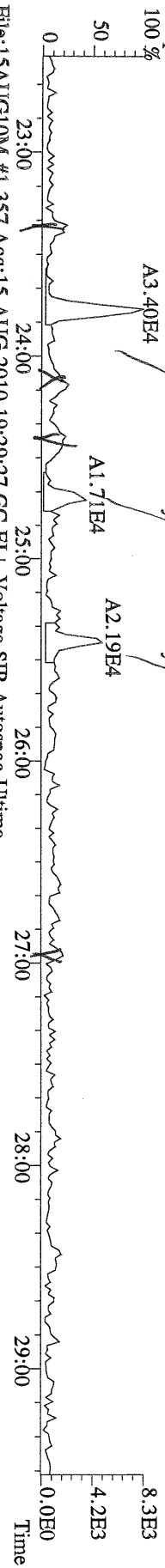
File:15AUG10M #1-347 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 471.7750 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory



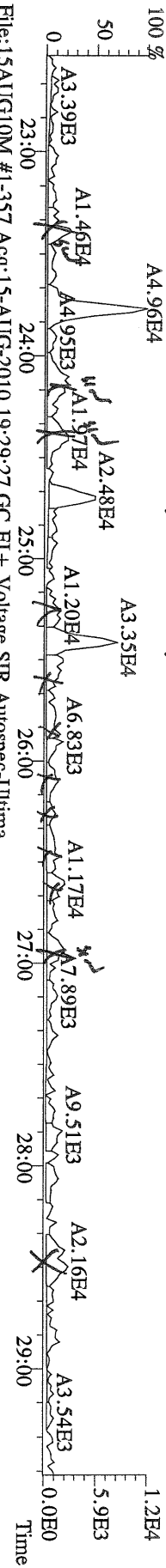
File:15AUG10M #1-347 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 454.9728 S:9 F:5 Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100%



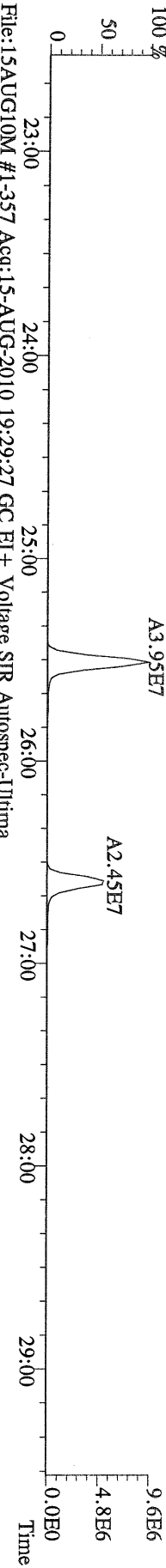
File:15AUG10M #1-357 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory



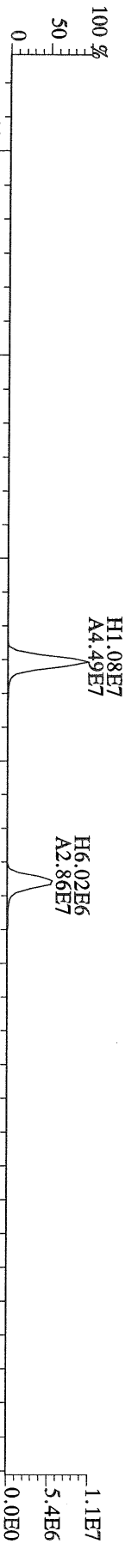
File:15AUG10M #1-357 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory



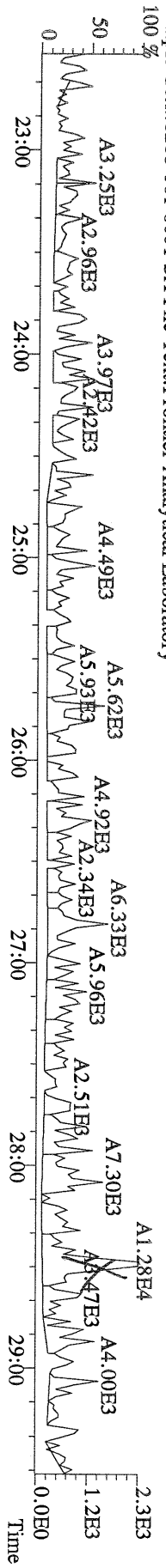
File:15AUG10M #1-357 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory



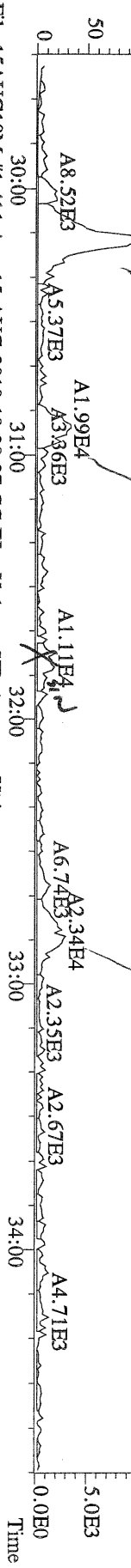
File:15AUG10M #1-357 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory



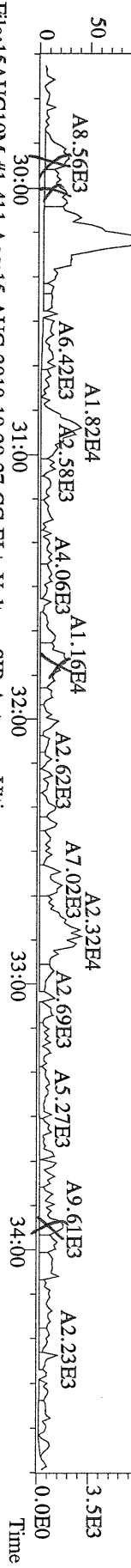
File:15AUG10M #1-357 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory



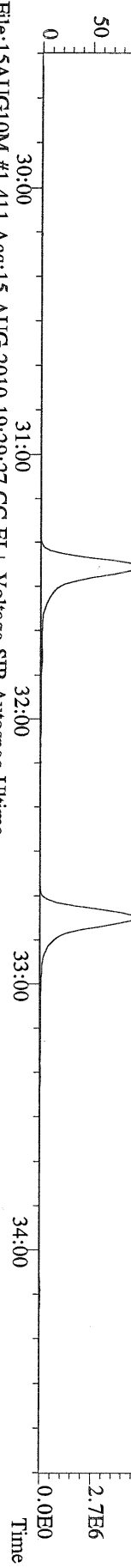
File:15AUG10M #1-411 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Fronter Analytical Laboratory



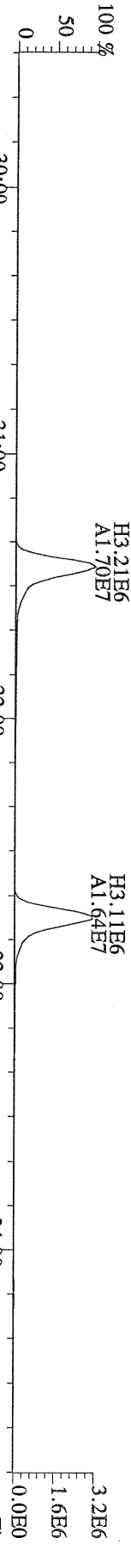
File:15AUG10M #1-411 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Fronter Analytical Laboratory



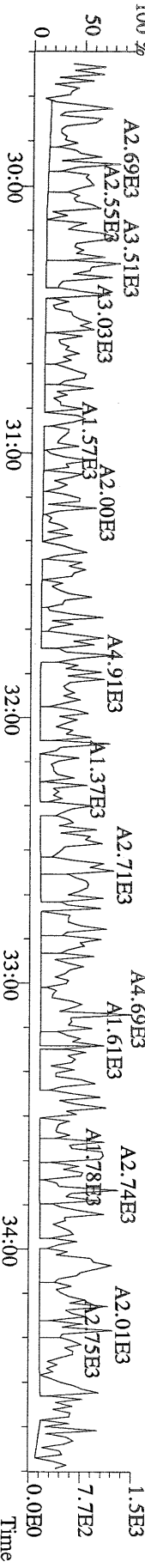
File:15AUG10M #1-411 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Fronter Analytical Laboratory



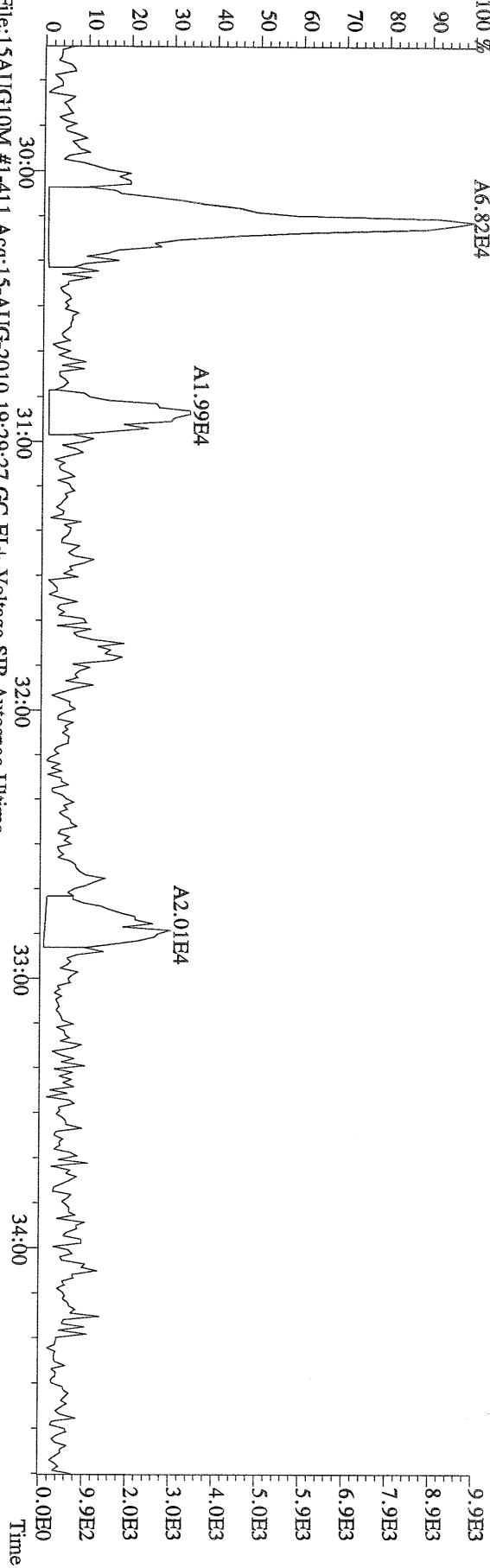
File:15AUG10M #1-411 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Fronter Analytical Laboratory



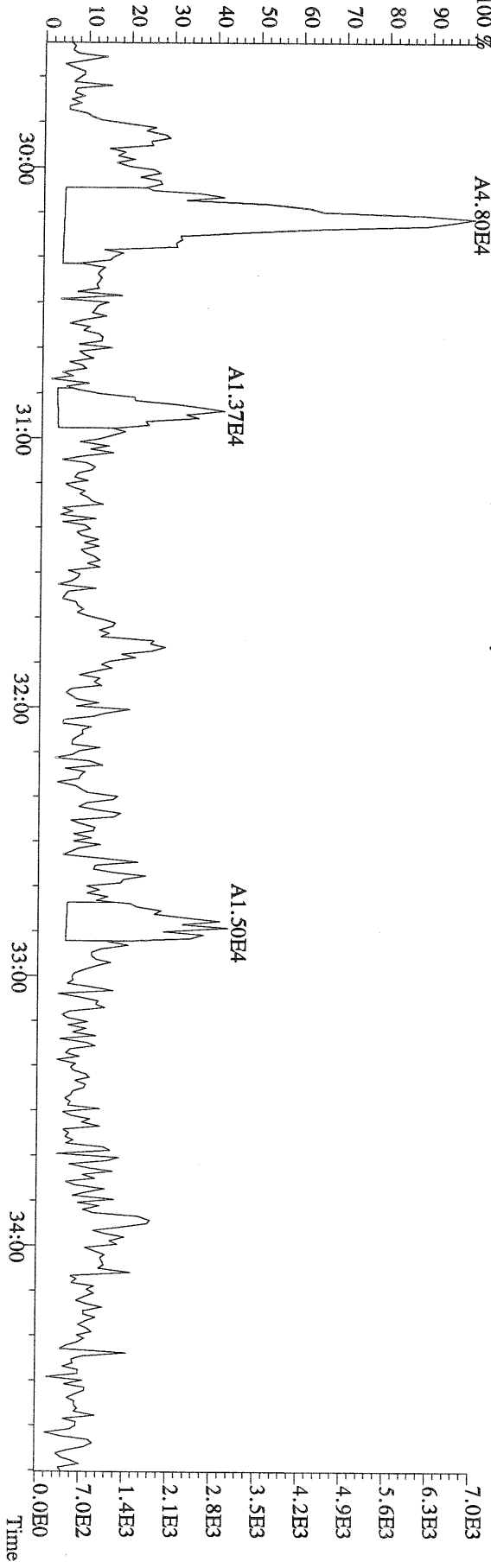
File:15AUG10M #1-411 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Fronter Analytical Laboratory



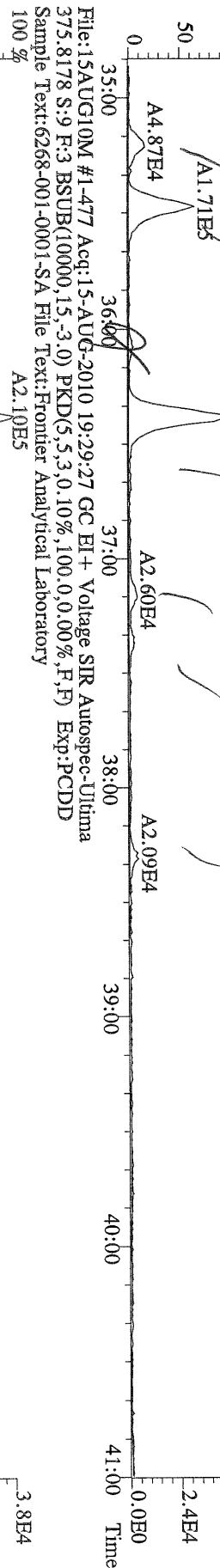
File:15AUG10M #1-411 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
100 % A6.82E4



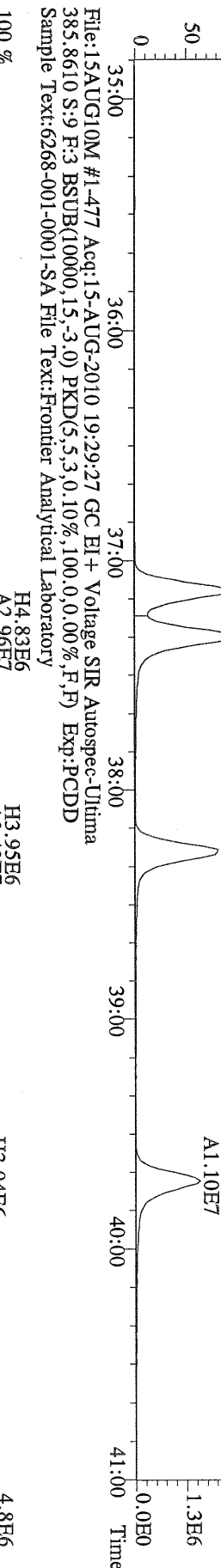
File:15AUG10M #1-411 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
100 % A4.80E4



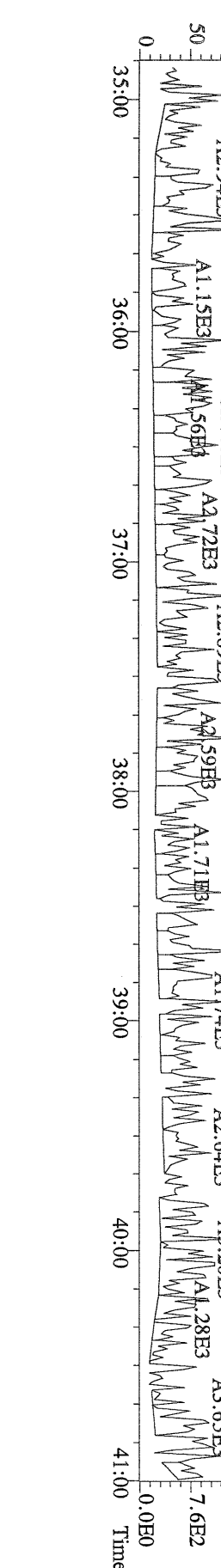
File:15AUG10M #1-477 Acq:15-AUG-2010 19:29:27 GC EI + Voltage SIR Autospec-Utima
 373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory



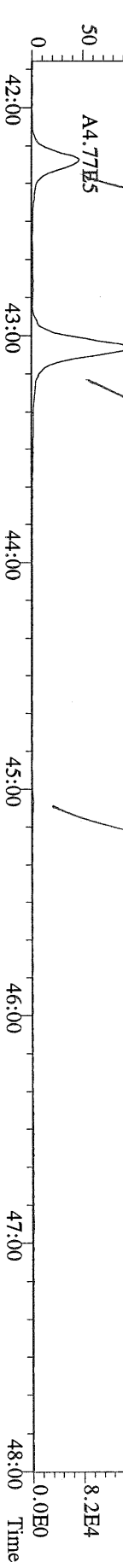
File:15AUG10M #1-477 Acq:15-AUG-2010 19:29:27 GC EI + Voltage SIR Autospec-Utima
 383.8639 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory



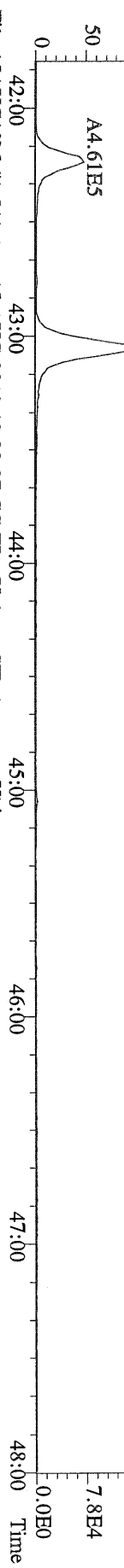
File:15AUG10M #1-477 Acq:15-AUG-2010 19:29:27 GC EI + Voltage SIR Autospec-Utima
 445.7555 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory



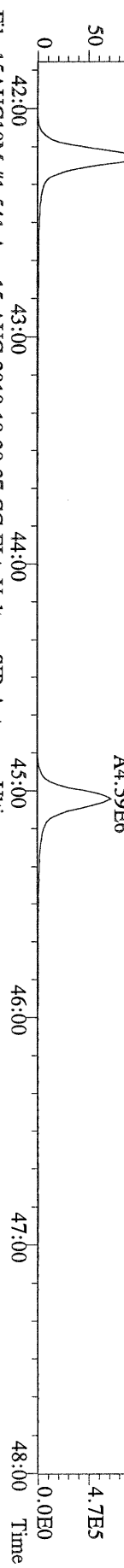
File:15AUG10M #1-541 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100%



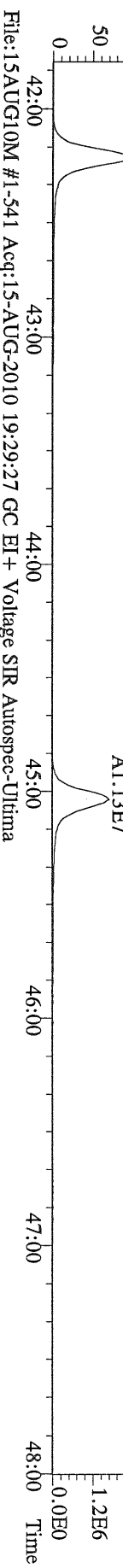
File:15AUG10M #1-541 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 409.7788 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100%



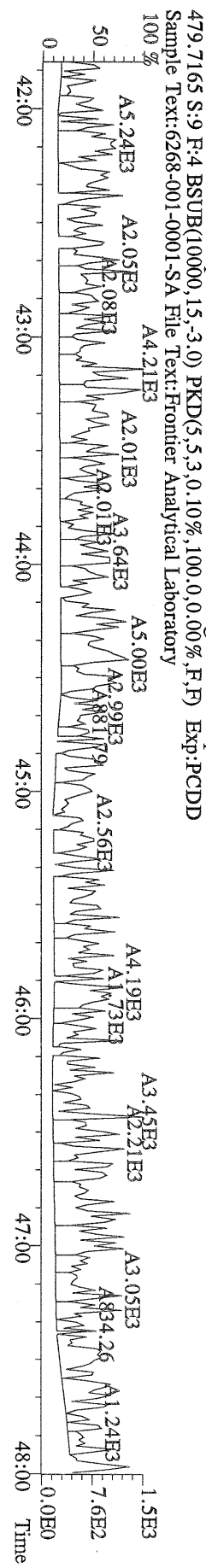
File:15AUG10M #1-541 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 417.8253 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100%



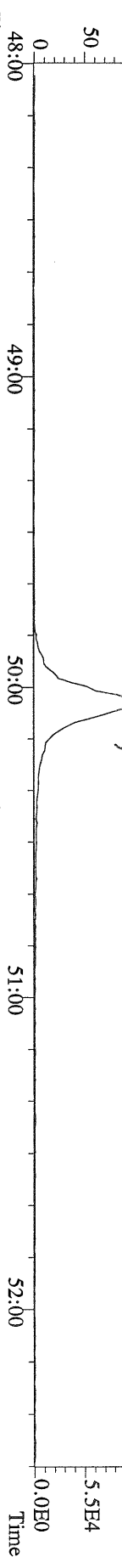
File:15AUG10M #1-541 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 419.8220 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100%



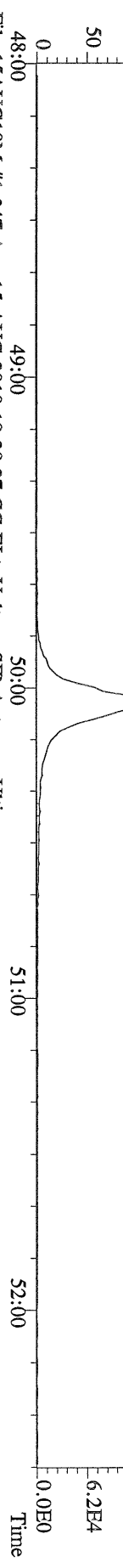
File:15AUG10M #1-541 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 479.7165 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100%



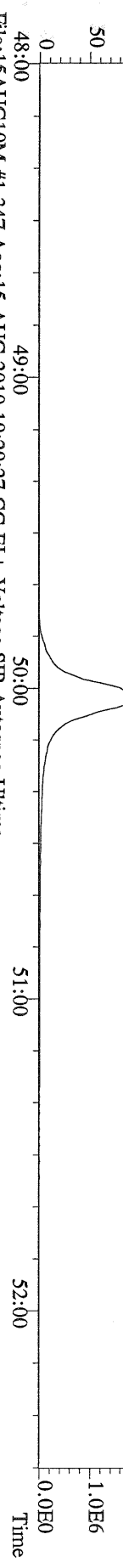
File:15AUG10M #1-347 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100 %



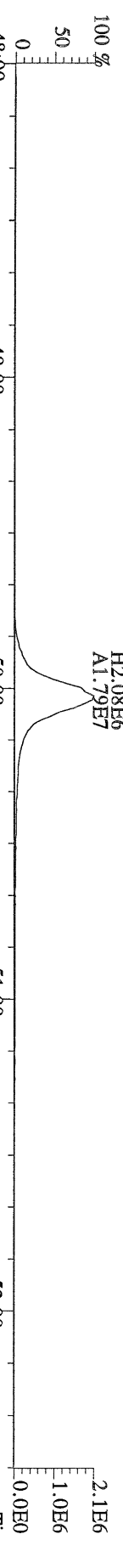
File:15AUG10M #1-347 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 443.7398 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100 %



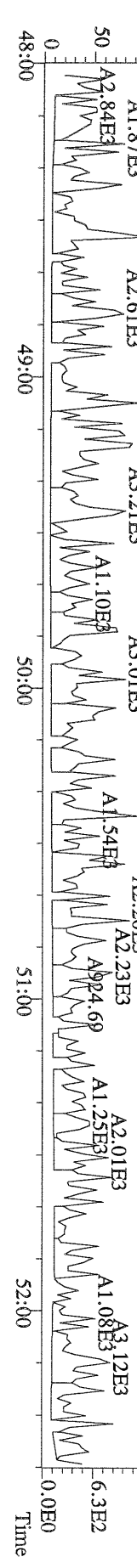
File:15AUG10M #1-347 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 453.7831 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100 %



File:15AUG10M #1-347 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 455.7801 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory



File:15AUG10M #1-347 Acq:15-AUG-2010 19:29:27 GC EI+ Voltage SIR Autospec-Ultima
 513.6775 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-001-0001-SA File Text:Frontier Analytical Laboratory
 100 %



Totals class: Total Penta-Dioxins

Entry #: 39

Run: 15

File: 15AUG10M

S: 8 I: 1 F: 2

Acquired: 15-AUG-10 18:34:04

Total Concentration: 19.5

Unnamed Concentration: 17.869

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:12	1.11e+05	7.11e+04	1.56 y	1.82e+05	4.12	
30:49	5.99e+04	4.13e+04	1.45 y	1.01e+05	2.29	
31:26	3.93e+04	2.36e+04	1.67 y	6.28e+04	1.42	
31:40	5.48e+04	3.26e+04	1.68 y	8.74e+04	1.98	
31:48	3.96e+04	2.53e+04	1.56 y	6.49e+04	1.47	
32:05	1.01e+05	6.39e+04	1.58 y	1.65e+05	3.74	
32:35	2.39e+04	1.54e+04	1.55 y	3.94e+04	0.892	
33:12	4.50e+04	2.87e+04	1.57 y	7.37e+04	1.67	1,2,3,7,8-PeCDD
33:16	2.50e+04	1.63e+04	1.54 y	4.13e+04	0.935	
33:46	2.88e+04	1.64e+04	1.76 y	4.52e+04	1.02	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 15 File: 15AUG10M
Acquired: 15-AUG-10 18:34:04

S: 8 I: 1 F: 3

Total Concentration: 121

Unnamed Concentration: 95.226

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:05	6.79e+05	4.86e+05	1.40 y	1.17e+06	32.7	
37:00	1.48e+05	1.09e+05	1.36 y	2.57e+05	7.21	
37:28	9.60e+05	6.78e+05	1.42 y	1.64e+06	46.0	
37:38	9.69e+04	7.76e+04	1.25 y	1.74e+05	4.90	
38:33	7.77e+04	5.53e+04	1.40 y	1.33e+05	3.69	1,2,3,4,7,8-HxCDD
38:43	3.19e+05	2.29e+05	1.40 y	5.48e+05	15.2	1,2,3,6,7,8-HxCDD
39:00	8.97e+04	6.69e+04	1.34 y	1.57e+05	4.40	
39:10	1.37e+05	9.75e+04	1.41 y	2.35e+05	6.73	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 15

File: 15AUG10M

S: 8 I: 1 F: 4

Acquired: 15-AUG-10 18:34:04

Total Concentration: 945

Unnamed Concentration: 479.484

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:45	7.21e+06	7.13e+06	1.01 y	1.43e+07	479	
44:09	7.10e+06	6.83e+06	1.04 y	1.39e+07	465	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 15

File: 15AUG10M

S: 8 I: 1 F: 1

Acquired: 15-AUG-10 18:34:04

Total Concentration: 5.28

Unnamed Concentration: 5.275

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:24	1.32e+04	1.80e+04	0.74 y	3.12e+04	0.269	
23:46	8.75e+04	1.26e+05	0.69 y	2.14e+05	1.84	
24:24	3.18e+04	4.05e+04	0.79 y	7.23e+04	0.624	
24:42	4.86e+04	6.71e+04	0.73 y	1.16e+05	0.998	
25:24	4.27e+04	5.92e+04	0.72 y	1.02e+05	0.879	
25:32	1.50e+04	1.80e+04	0.83 y	3.30e+04	0.285	
28:25	1.74e+04	2.63e+04	0.66 y	4.37e+04	0.377	

Totals class: 1st Fn. Tot Penta-Furans Entry #: 43

Run: 15 File: 15AUG10M S: 8 I: 1 F: 1
Acquired: 15-AUG-10 18:34:04

Total Concentration: 12.2 Unnamed Concentration: 12.192

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:24	4.24e+05	2.66e+05	1.60 y	6.90e+05	12.2	

Totals class: Total Penta-Furans

Entry #: 44

Run: 15

File: 15AUG10M

S: 8 I: 1 F: 2

Acquired: 15-AUG-10 18:34:04

Total Concentration: 10.5

Unnamed Concentration: 9.932

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:12	1.86e+05	1.38e+05	1.34 y	3.24e+05	5.73	
30:53	7.58e+04	5.51e+04	1.38 y	1.31e+05	2.31	
31:47	2.94e+04	2.03e+04	1.45 y	4.97e+04	0.879	
32:46	1.99e+04	1.37e+04	1.46 y	3.35e+04	0.596	2,3,4,7,8-PeCDF
32:49	3.33e+04	2.39e+04	1.40 y	5.72e+04	1.01	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 15

File: 15AUG10M

S: 8 I: 1 F: 3

Acquired: 15-AUG-10 18:34:04

Total Concentration: 106

Unnamed Concentration: 97.007

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:12	2.58e+05	2.08e+05	1.24 y	4.66e+05	9.92	
35:28	9.35e+05	7.46e+05	1.25 y	1.68e+06	35.8	
36:23	1.35e+06	1.06e+06	1.27 y	2.41e+06	51.3	
37:10	7.96e+04	6.45e+04	1.23 y	1.44e+05	2.94	1,2,3,4,7,8-HxCDF
37:21	7.12e+04	5.56e+04	1.28 y	1.27e+05	2.46	1,2,3,6,7,8-HxCDF
38:18	9.22e+04	7.01e+04	1.32 y	1.62e+05	3.55	2,3,4,6,7,8-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 15

File: 15AUG10M

S: 8 I: 1 F: 4

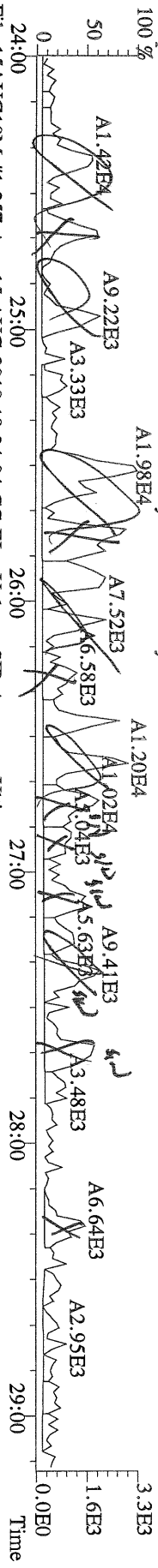
Acquired: 15-AUG-10 18:34:04

Total Concentration: 468

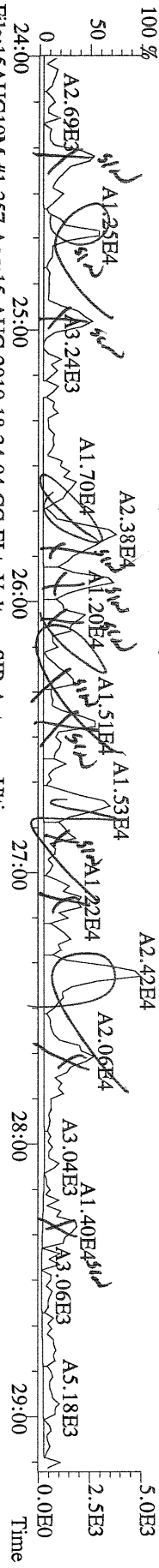
Unnamed Concentration: 326.275

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:14	2.60e+06	2.51e+06	1.03 y	5.11e+06	137	1,2,3,4,6,7,8-HpCDF
42:47	6.52e+04	6.09e+04	1.07 y	1.26e+05	3.52	
43:03	5.88e+06	5.68e+06	1.03 y	1.16e+07	323	
45:04	8.57e+04	7.29e+04	1.18 y	1.59e+05	4.59	1,2,3,4,7,8,9-HpCDF

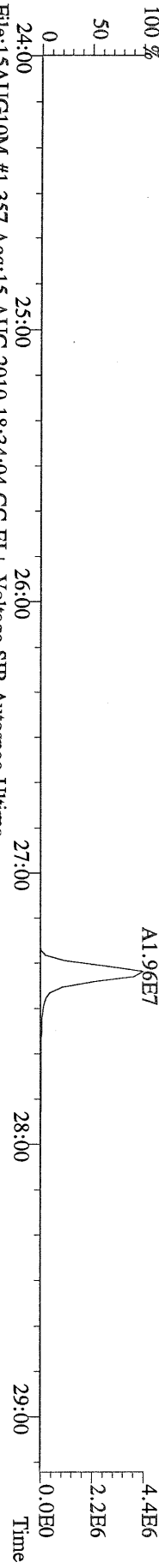
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319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



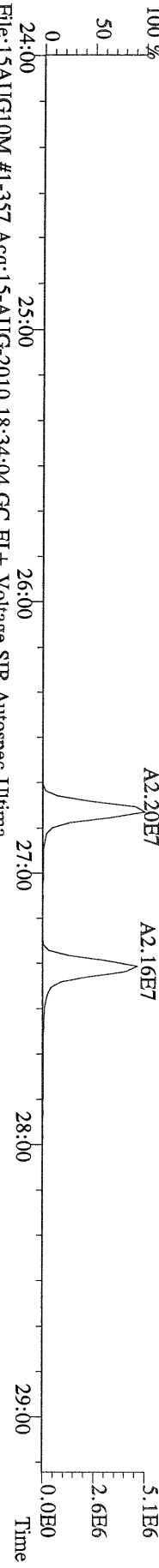
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327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



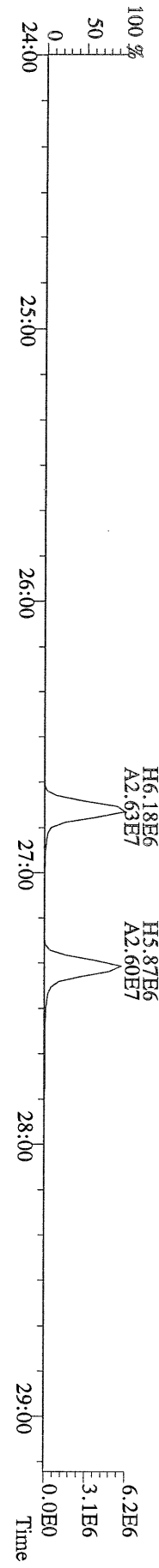
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331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



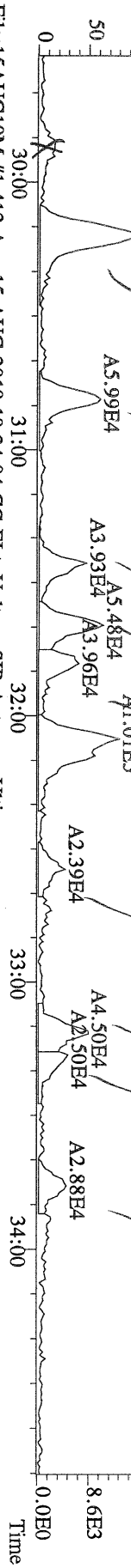
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333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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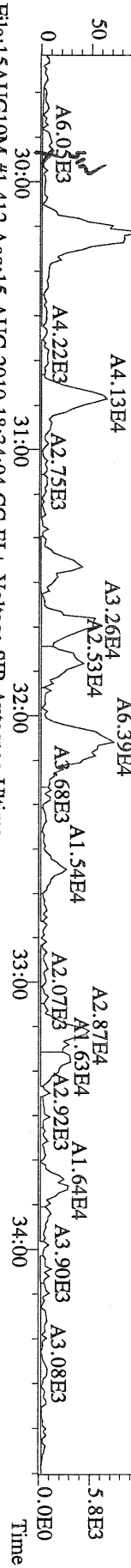
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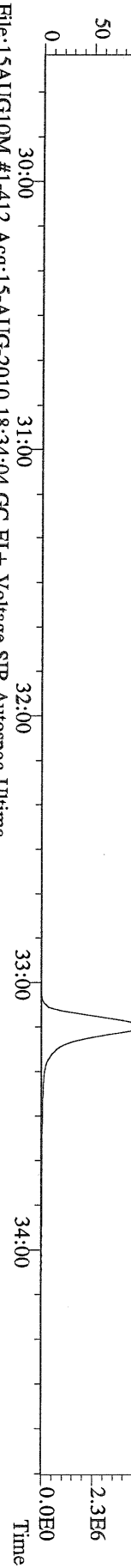
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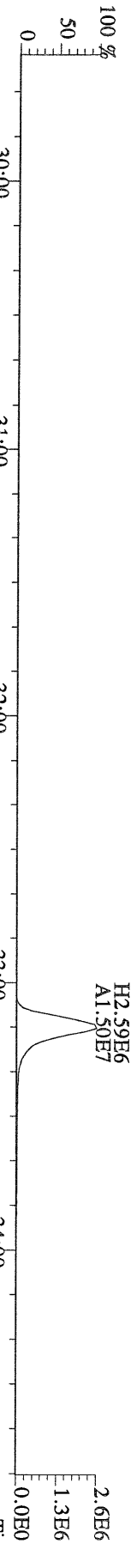
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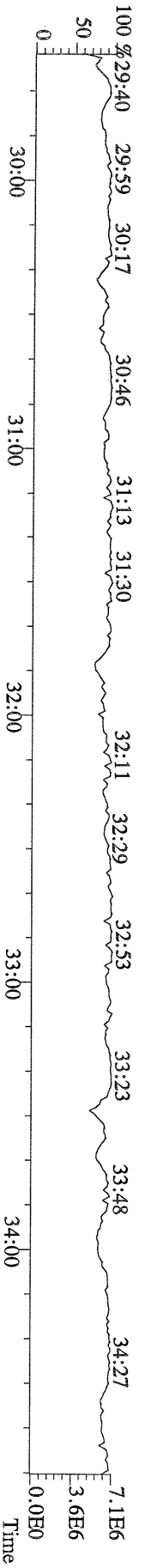
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 367.8949 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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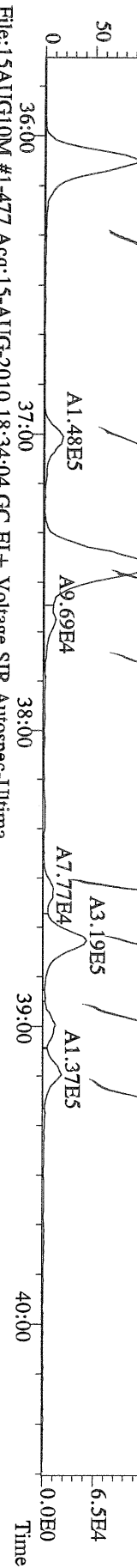
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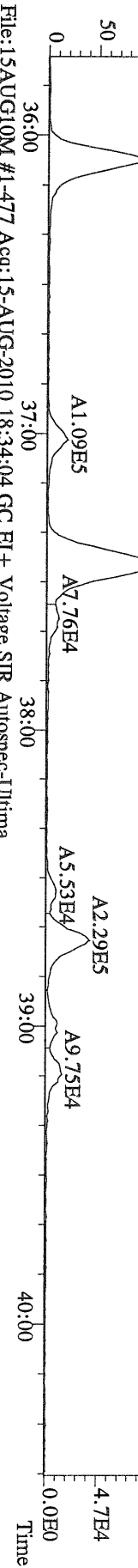
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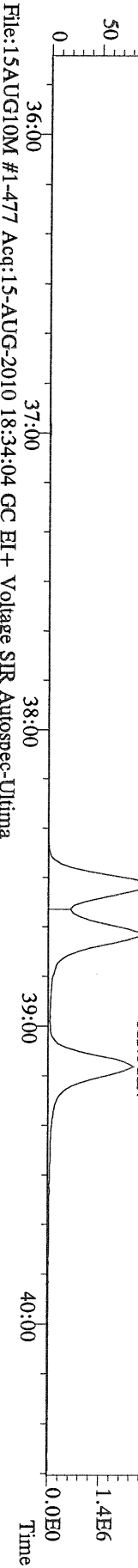
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 389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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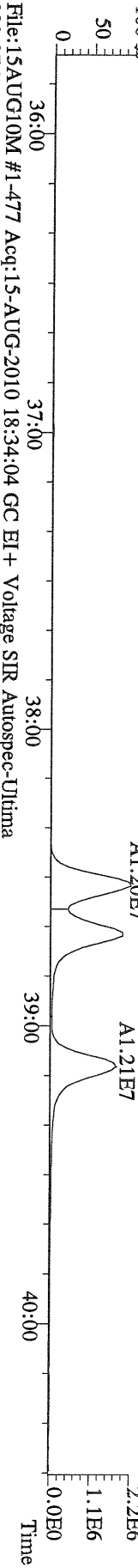
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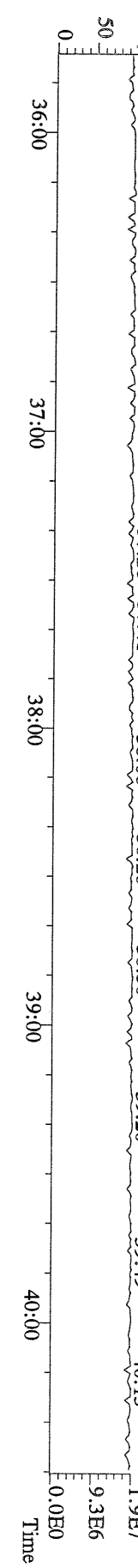
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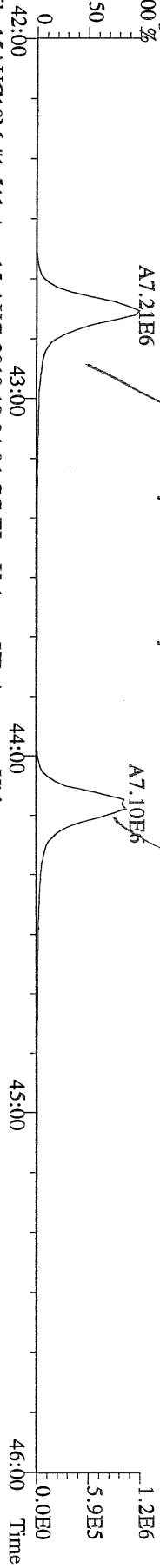
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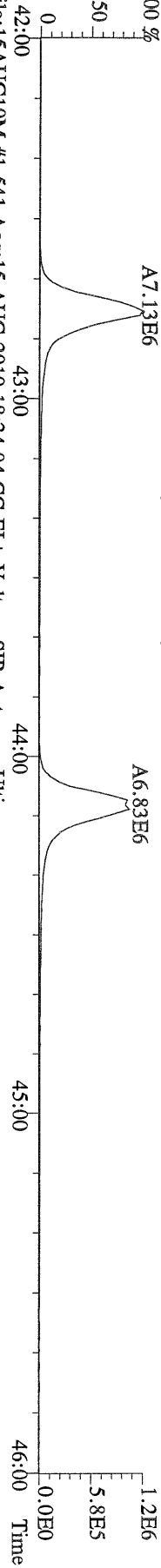
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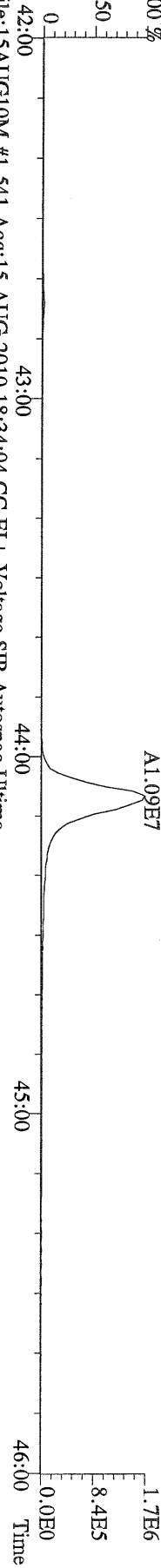
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423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory
100 %
A7.21E6



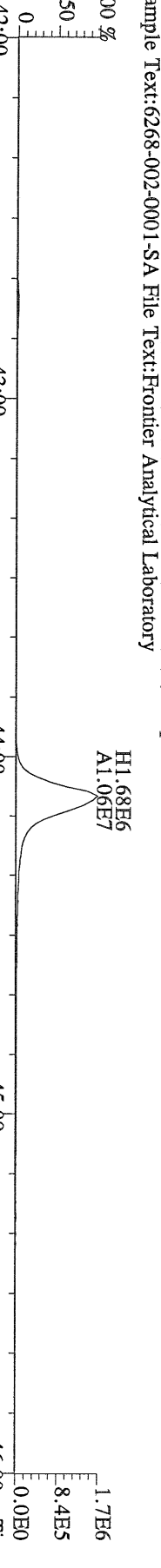
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425.7737 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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100 %
A7.13E6



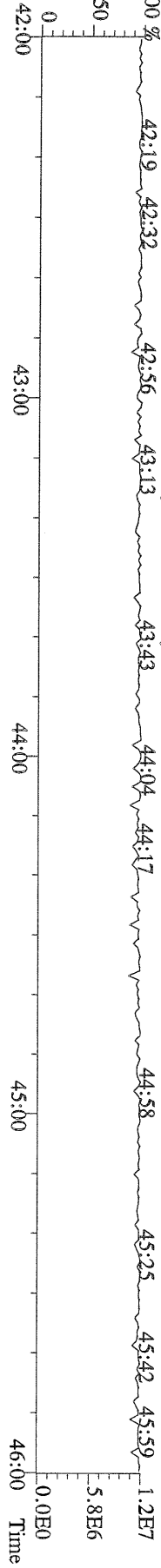
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435.8169 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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100 %
A1.09E7



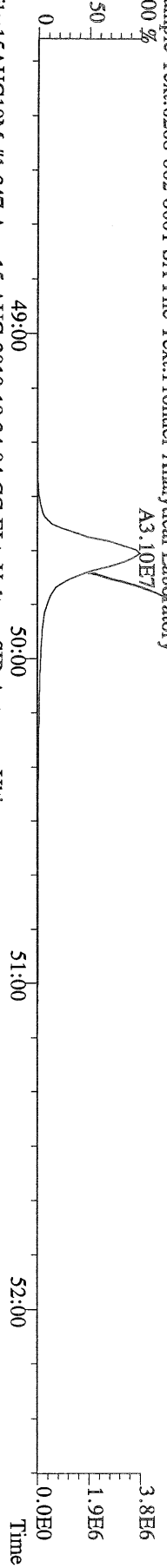
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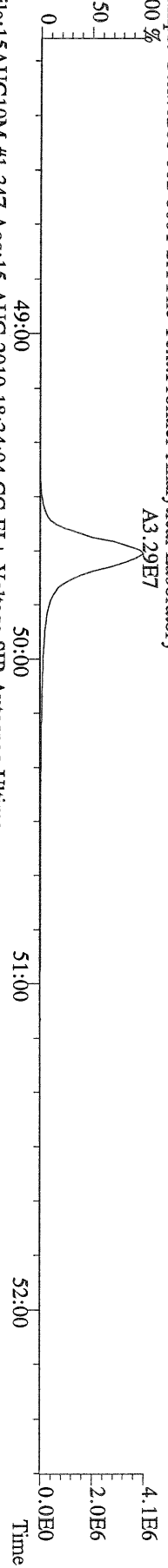
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Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



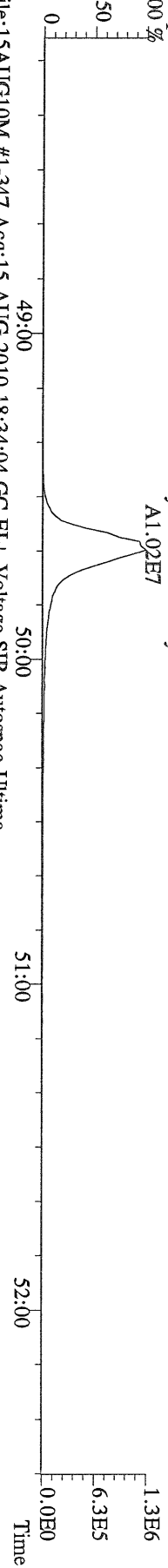
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457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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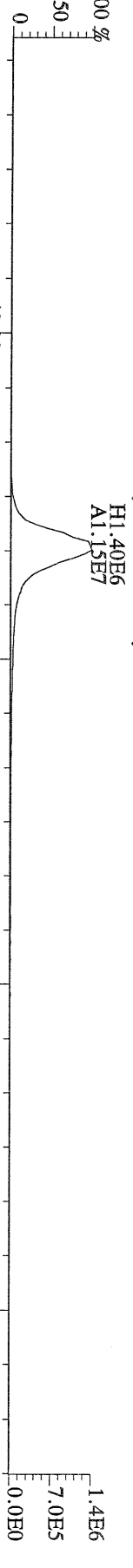
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459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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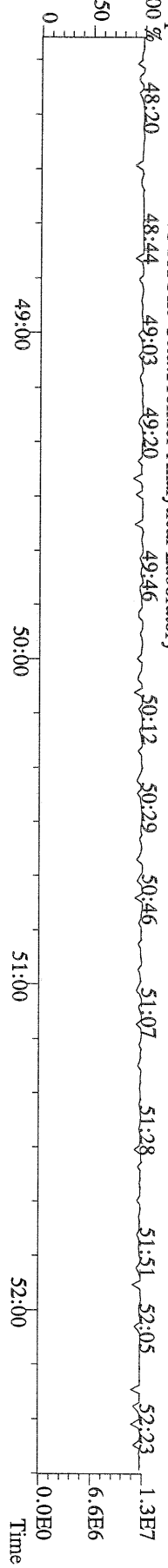
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469.7780 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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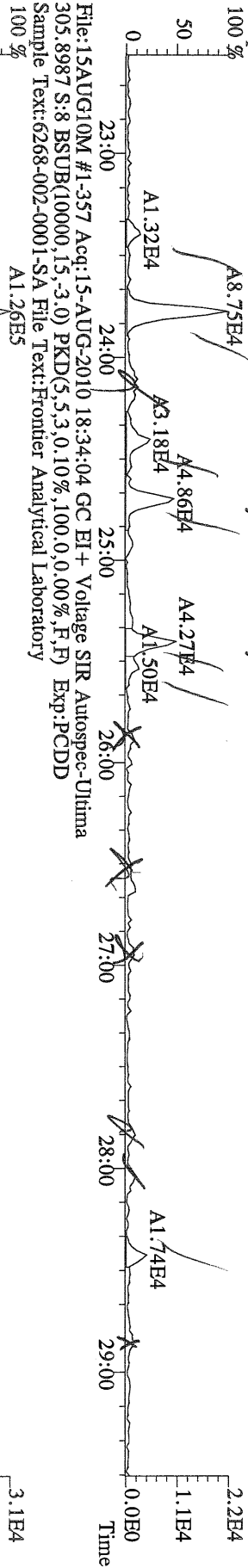
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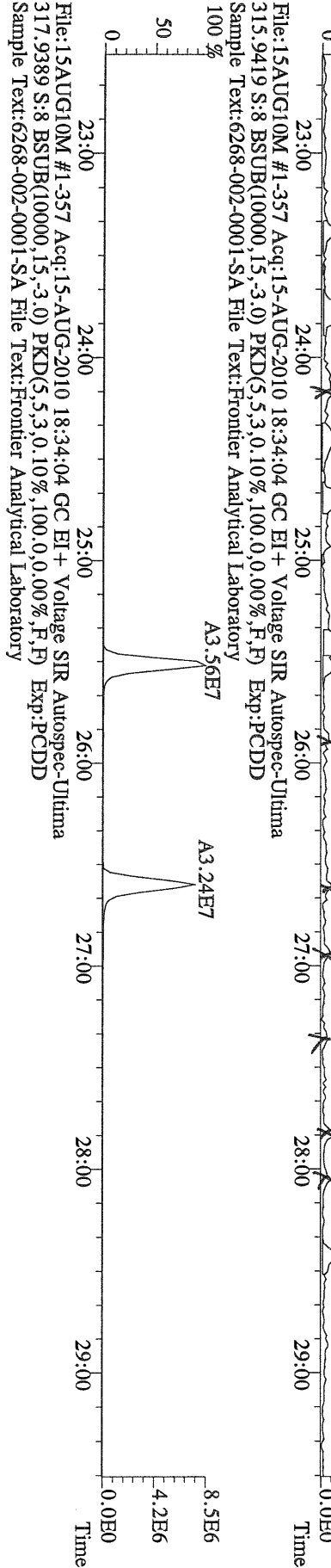
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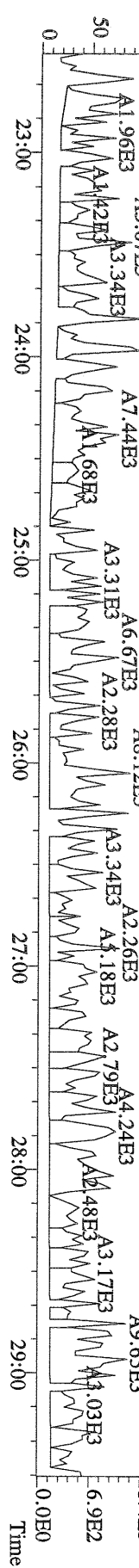
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 303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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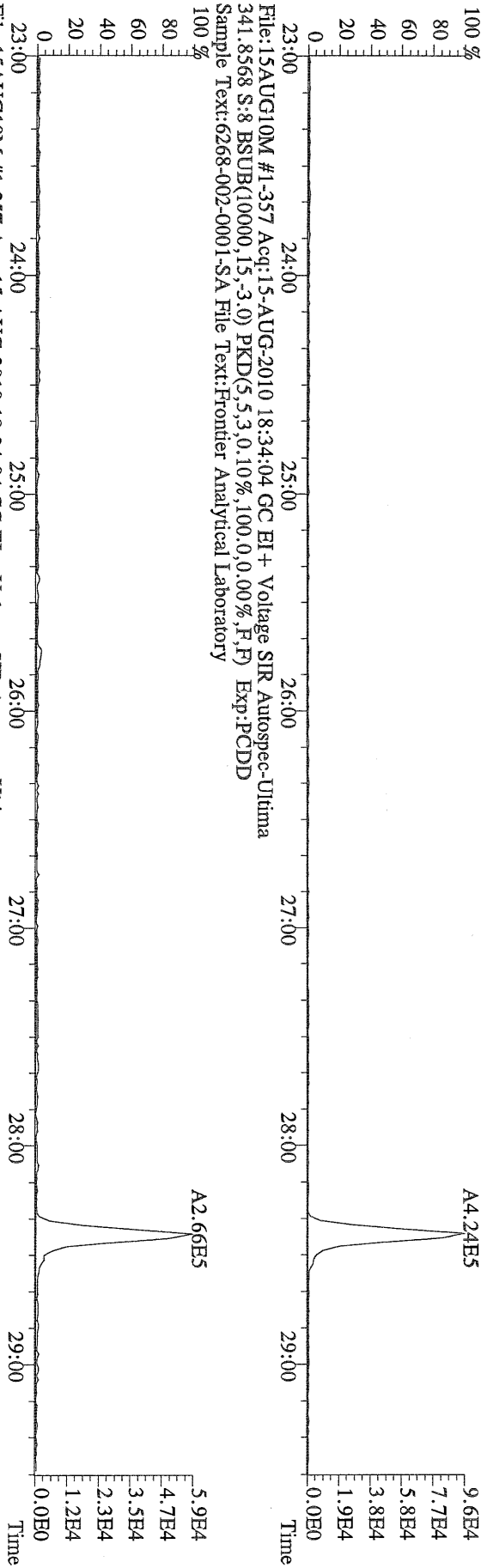
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 315.9419 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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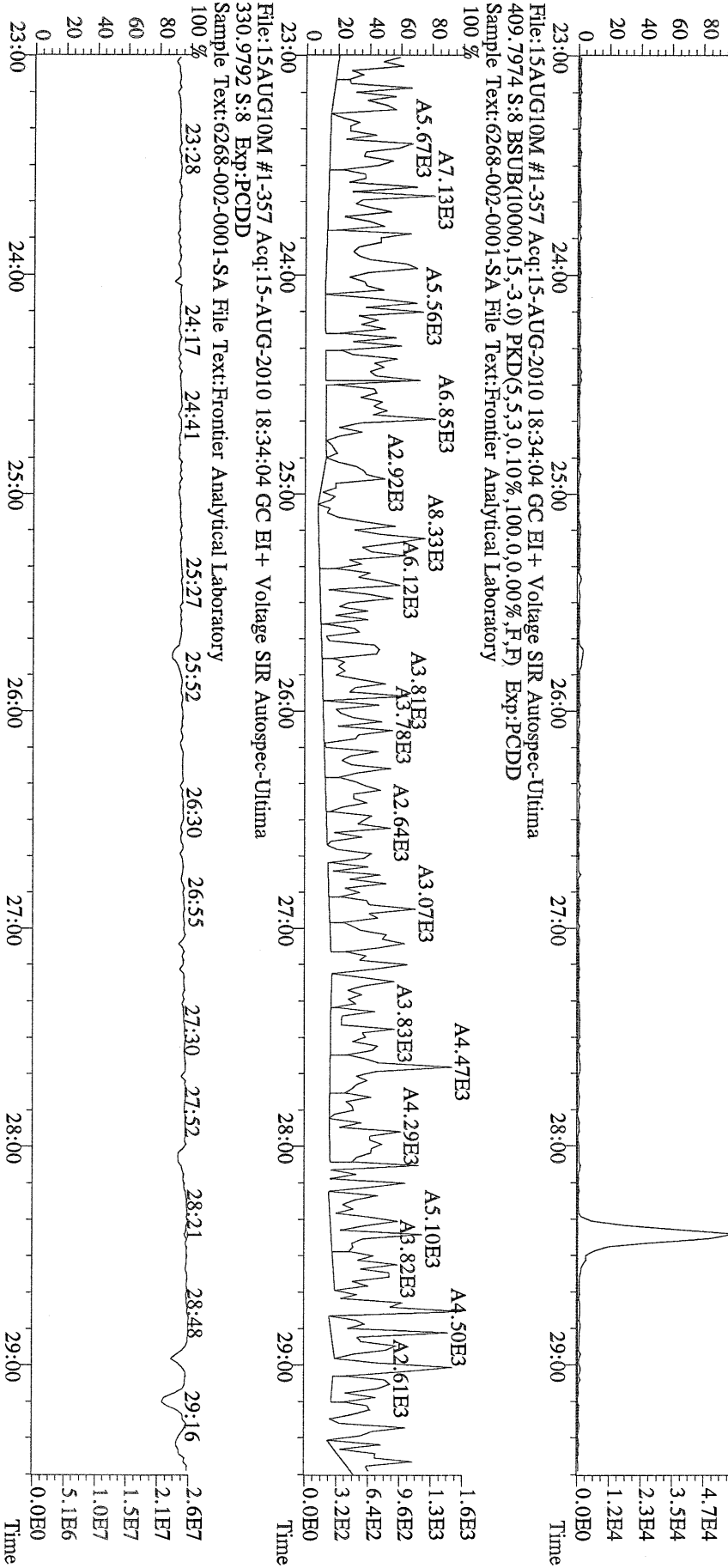
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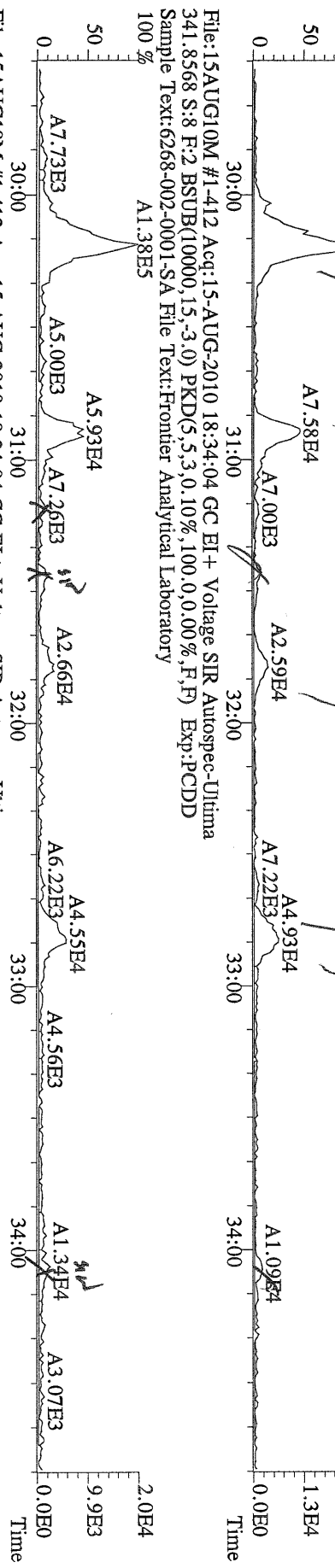
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 339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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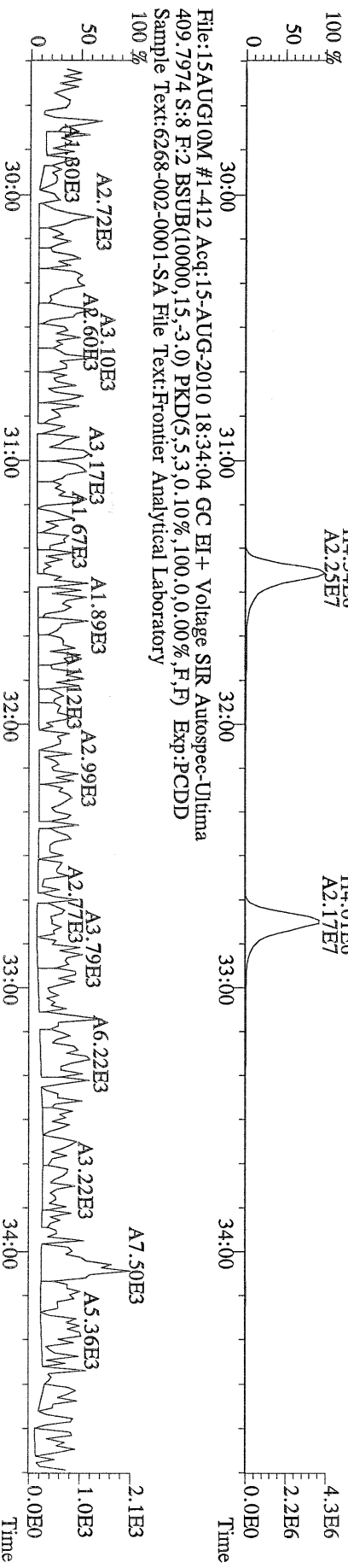
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 341.8568 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



File:15AUG10M #1-412 Acq:15-AUG-2010 18:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory

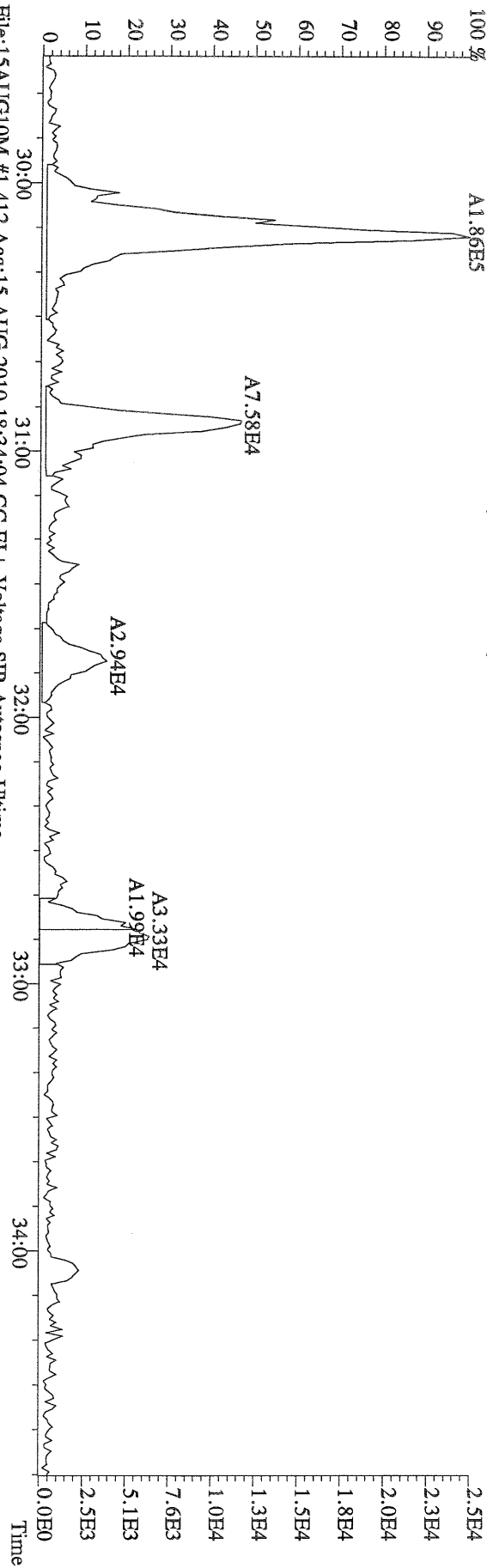


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353.8970 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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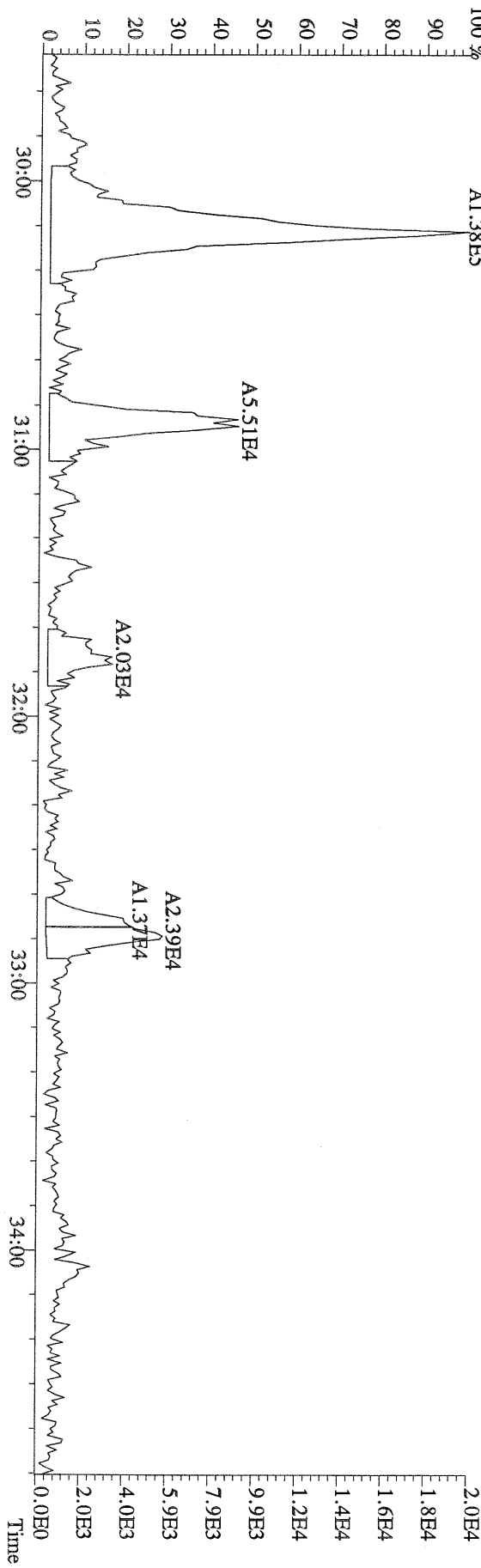


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409.7974 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory

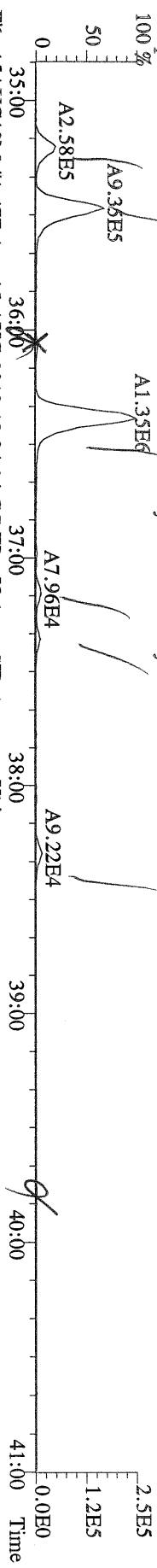
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Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



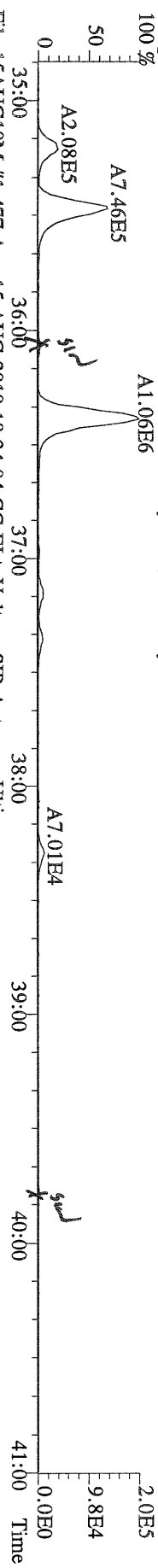
File:15AUG10M #1-412 Acq:15-AUG-2010 18:34:04 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



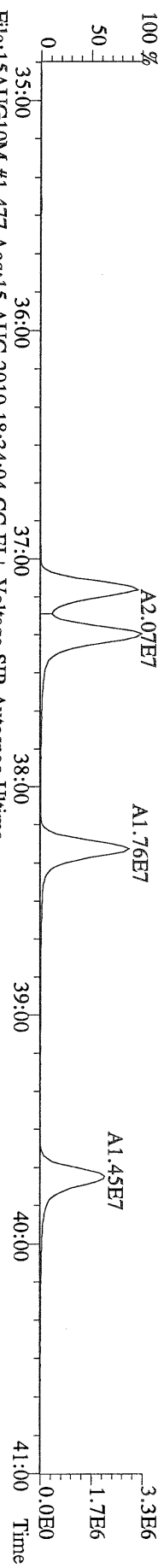
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 373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



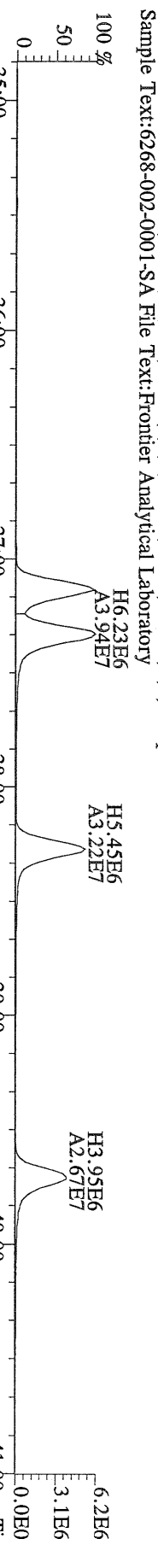
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 375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



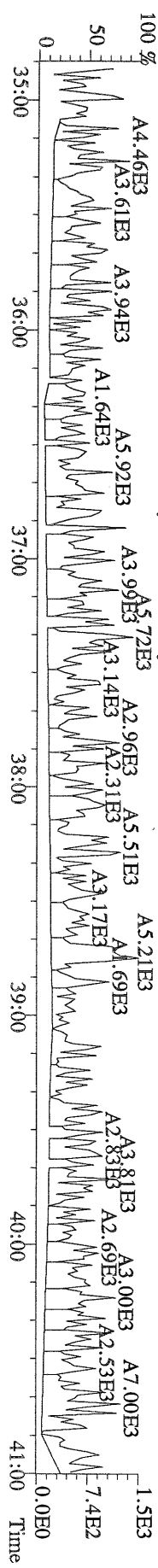
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 383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



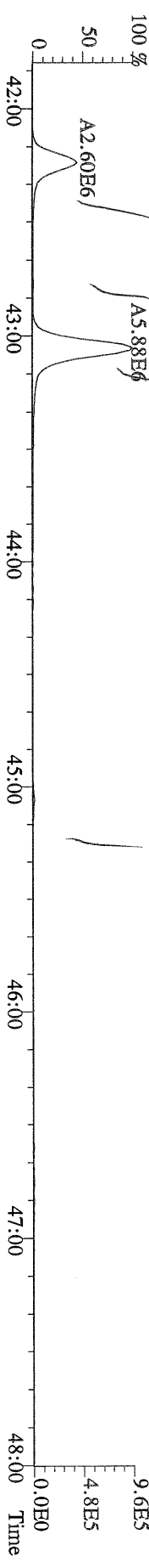
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 385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



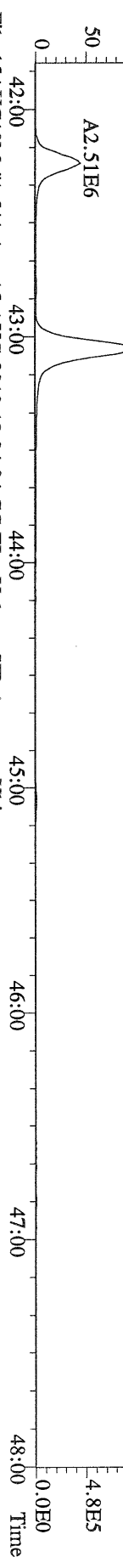
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 445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



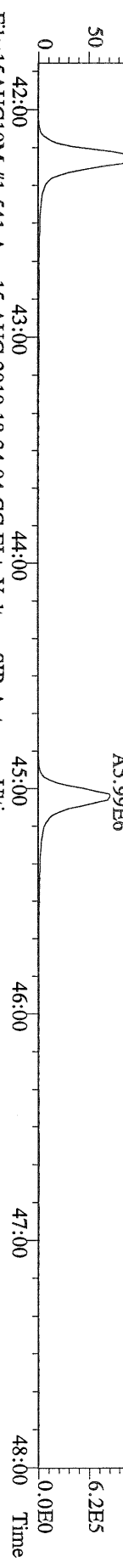
File:15AUG10M #1-541 Acq:15-AUG-2010 18:34:04 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



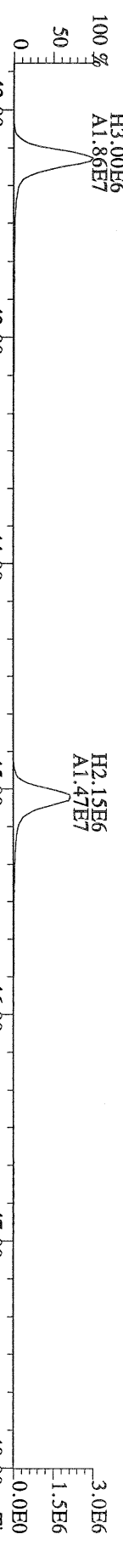
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 409.7788 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



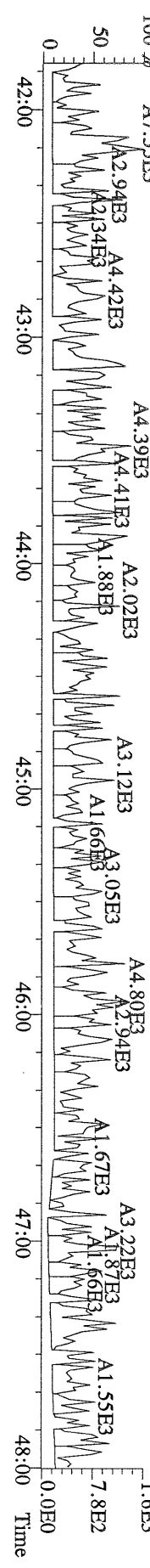
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 417.8253 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



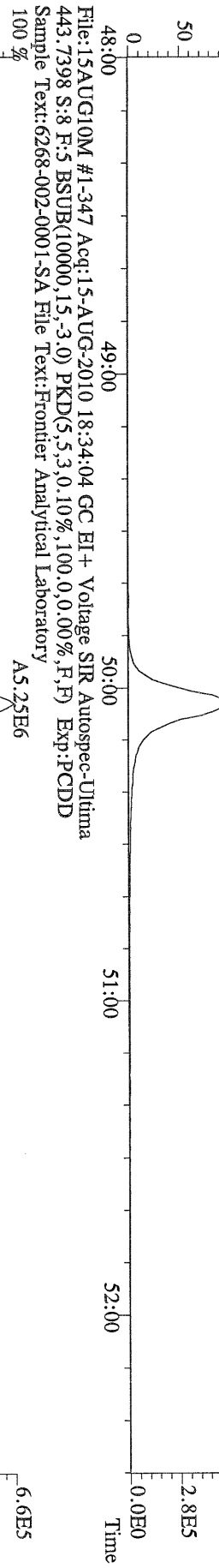
File:15AUG10M #1-541 Acq:15-AUG-2010 18:34:04 GC EI+ Voltage SIR Autospec-Ultima
 419.8220 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



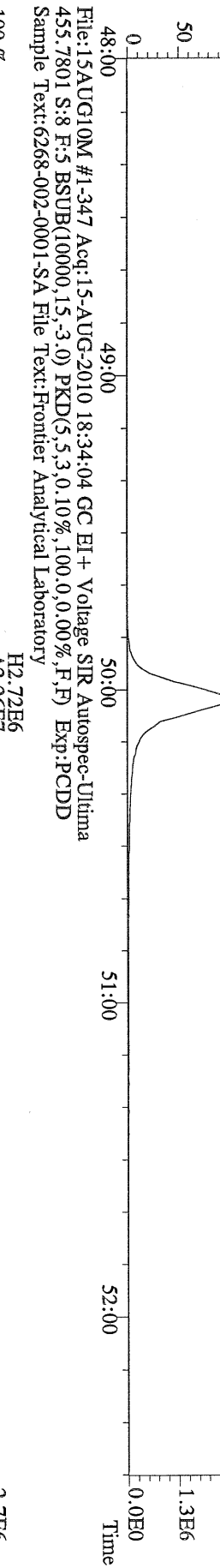
File:15AUG10M #1-541 Acq:15-AUG-2010 18:34:04 GC EI+ Voltage SIR Autospec-Ultima
 479.7165 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



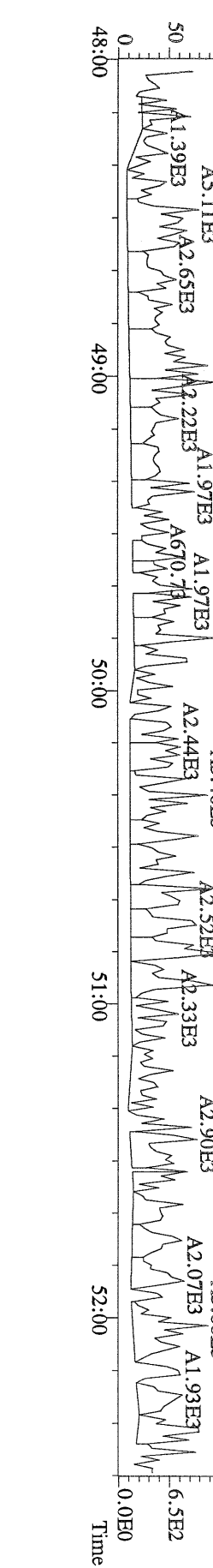
File:15AUG10M #1-347 Acq:15-AUG-2010 18:34:04 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



File:15AUG10M #1-347 Acq:15-AUG-2010 18:34:04 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



File:15AUG10M #1-347 Acq:15-AUG-2010 18:34:04 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-002-0001-SA File Text:Frontier Analytical Laboratory



Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 14

File: 15AUG10M

S: 7 I: 1 F: 1

Acquired: 15-AUG-10 17:38:44

Total Concentration: 8.09

Unnamed Concentration: 8.091

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:23	3.00e+04	3.74e+04	0.80 y	6.73e+04	1.41	
24:39	2.52e+04	3.08e+04	0.82 y	5.59e+04	1.17	
24:58	1.85e+04	2.62e+04	0.71 y	4.47e+04	0.937	
25:34	2.41e+04	2.73e+04	0.88 y	5.14e+04	1.08	
25:46	2.51e+04	3.20e+04	0.78 y	5.71e+04	1.20	
25:56	2.30e+04	2.77e+04	0.83 y	5.07e+04	1.06	
26:45	2.61e+04	3.30e+04	0.79 y	5.91e+04	1.24	

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 14 File: 15AUG10M S: 7 I: 1 F: 2
Acquired: 15-AUG-10 17:38:44

Total Concentration: 23.3

Unnamed Concentration: 21.273

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:12	1.30e+05	8.52e+04	1.52 y	2.15e+05	5.22	
30:49	7.40e+04	4.74e+04	1.56 y	1.21e+05	2.95	
31:27	4.87e+04	3.08e+04	1.58 y	7.95e+04	1.93	
31:40	6.64e+04	4.27e+04	1.55 y	1.09e+05	2.65	
31:49	5.55e+04	3.50e+04	1.59 y	9.05e+04	2.20	
32:05	9.05e+04	6.07e+04	1.49 y	1.51e+05	3.67	
32:35	2.05e+04	1.29e+04	1.60 y	3.34e+04	0.812	
33:11	5.03e+04	3.23e+04	1.56 y	8.26e+04	2.01	1,2,3,7,8-PeCDD
33:17	2.16e+04	1.38e+04	1.57 y	3.53e+04	0.858	
33:46	2.39e+04	1.71e+04	1.40 y	4.09e+04	0.994	

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 14 File: 15AUG10M
Acquired: 15-AUG-10 17:38:44

S: 7 I: 1 F: 3

Total Concentration: 146

Unnamed Concentration: 116.008

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:05	8.12e+05	5.79e+05	1.40 y	1.39e+06	43.0	
37:01	1.62e+05	1.16e+05	1.40 y	2.78e+05	8.60	
37:26	1.07e+06	7.52e+05	1.42 y	1.82e+06	56.2	
37:37	8.00e+04	6.25e+04	1.28 y	1.42e+05	4.40	
38:34	7.00e+04	5.15e+04	1.36 y	1.21e+05	3.68	1,2,3,4,7,8-HxCDD
38:43	3.16e+05	2.33e+05	1.36 y	5.48e+05	16.9	1,2,3,6,7,8-HxCDD
39:01	7.33e+04	5.24e+04	1.40 y	1.26e+05	3.88	
39:10	1.73e+05	1.22e+05	1.42 y	2.96e+05	9.34	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 14 File: 15AUG10M S: 7 I: 1 F: 4
Acquired: 15-AUG-10 17:38:44

Total Concentration: 1250

Unnamed Concentration: 665.396

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:45	8.84e+06	8.95e+06	0.99 y	1.78e+07	665	
44:08	7.75e+06	7.88e+06	0.98 y	1.56e+07	585	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 14 File: 15AUG10M S: 7 I: 1 F: 1
Acquired: 15-AUG-10 17:38:44

Total Concentration: 13.1

Unnamed Concentration: 12.599

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:24	2.46e+04	3.49e+04	0.71 y	5.95e+04	0.543	
23:47	1.03e+05	1.47e+05	0.70 y	2.50e+05	2.28	
24:10	4.05e+04	6.17e+04	0.66 y	1.02e+05	0.932	
24:25	4.90e+04	7.12e+04	0.69 y	1.20e+05	1.10	
24:43	7.31e+04	1.01e+05	0.72 y	1.74e+05	1.59	
24:56	1.33e+04	1.80e+04	0.74 y	3.14e+04	0.286	
25:18	2.21e+04	2.95e+04	0.75 y	5.16e+04	0.471	
25:25	5.95e+04	8.55e+04	0.70 y	1.45e+05	1.32	
25:32	2.81e+04	3.95e+04	0.71 y	6.76e+04	0.616	
25:53	3.18e+04	3.95e+04	0.80 y	7.13e+04	0.650	
26:07	1.37e+04	1.99e+04	0.69 y	3.36e+04	0.306	
26:37	2.17e+04	3.04e+04	0.71 y	5.21e+04	0.475	2,3,7,8-TCDF
26:57	2.73e+04	3.75e+04	0.73 y	6.48e+04	0.591	
27:50	3.09e+04	4.51e+04	0.68 y	7.60e+04	0.693	
28:03	3.14e+04	3.87e+04	0.81 y	7.02e+04	0.640	
28:26	2.73e+04	3.70e+04	0.74 y	6.42e+04	0.586	

Totals class: 1st Fn. Tot Penta-Furans Entry #: 43

Run: 14 File: 15AUG10M S: 7 I: 1 F: 1
Acquired: 15-AUG-10 17:38:44

Total Concentration: 14.4 Unnamed Concentration: 14.419

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:25	4.67e+05	2.87e+05	1.63 y	7.54e+05	14.4	

Totals class: Total Penta-Furans

Entry #: 44

Run: 14

File: 15AUG10M

S: 7 I: 1 F: 2

Acquired: 15-AUG-10 17:38:44

Total Concentration: 15.2

Unnamed Concentration: 13.958

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:01	2.97e+04	2.06e+04	1.44 y	5.04e+04	0.963	
30:11	2.25e+05	1.60e+05	1.41 y	3.85e+05	7.36	
30:54	8.74e+04	6.42e+04	1.36 y	1.52e+05	2.90	
31:47	4.40e+04	3.08e+04	1.43 y	7.48e+04	1.43	
32:48	3.83e+04	2.90e+04	1.32 y	6.72e+04	1.29	2,3,4,7,8-PeCDF
32:50	3.93e+04	2.90e+04	1.36 y	6.83e+04	1.31	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 14

File: 15AUG10M

S: 7 I: 1 F: 3

Acquired: 15-AUG-10 17:38:44

Total Concentration: 118

Unnamed Concentration: 106.278

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:12	2.43e+05	1.91e+05	1.27 y	4.34e+05	10.0	
35:28	9.05e+05	7.12e+05	1.27 y	1.62e+06	37.4	
36:05	4.15e+04	2.92e+04	1.42 y	7.07e+04	1.63	
36:23	1.38e+06	1.09e+06	1.27 y	2.48e+06	57.2	
37:10	1.25e+05	9.60e+04	1.30 y	2.21e+05	4.90	1,2,3,4,7,8-HxCDF
37:21	6.37e+04	5.26e+04	1.21 y	1.16e+05	2.41	1,2,3,6,7,8-HxCDF
38:19	8.66e+04	6.90e+04	1.25 y	1.56e+05	3.67	2,3,4,6,7,8-HxCDF
39:45	1.62e+04	1.29e+04	1.25 y	2.92e+04	0.784	1,2,3,7,8,9-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 14 File: 15AUG10M
Acquired: 15-AUG-10 17:38:44

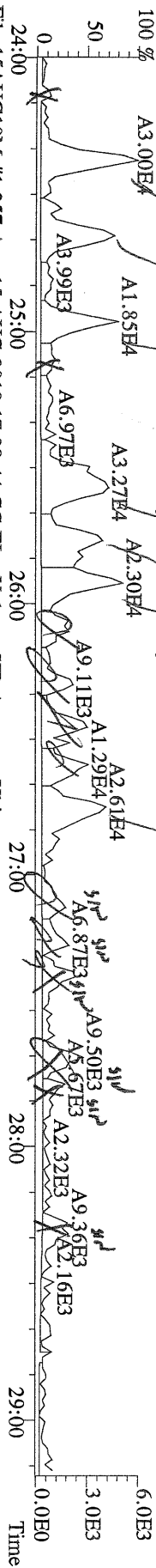
S: 7 I: 1 F: 4

Total Concentration: 506

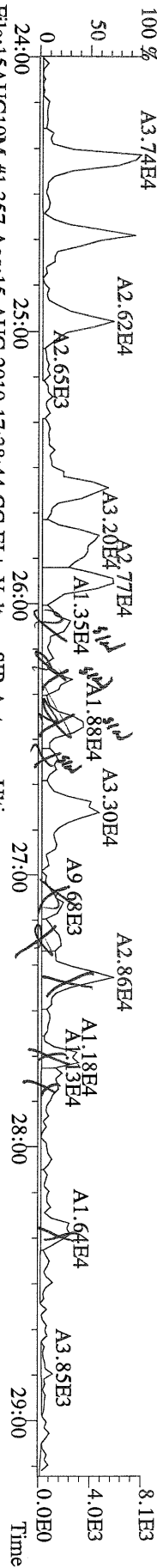
Unnamed Concentration: 351.529

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:14	2.51e+06	2.40e+06	1.05 y	4.90e+06	149	1,2,3,4,6,7,8-HpCDF
42:47	4.92e+04	5.25e+04	0.94 y	1.02e+05	3.27	
43:03	5.52e+06	5.32e+06	1.04 y	1.08e+07	348	
45:03	8.13e+04	7.68e+04	1.06 y	1.58e+05	5.36	1,2,3,4,7,8,9-HpCDF

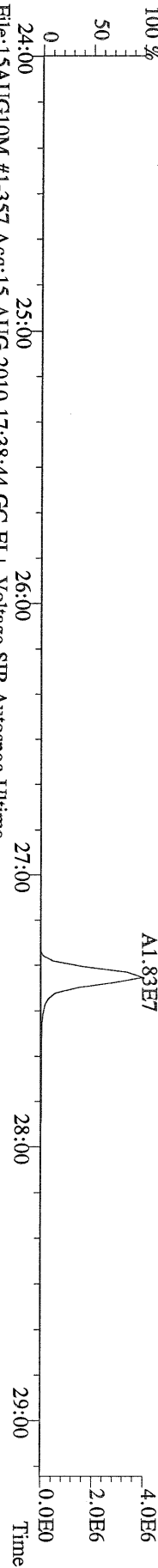
File:15AUG10M #1-357 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
319.8966 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Fronter Analytical Laboratory



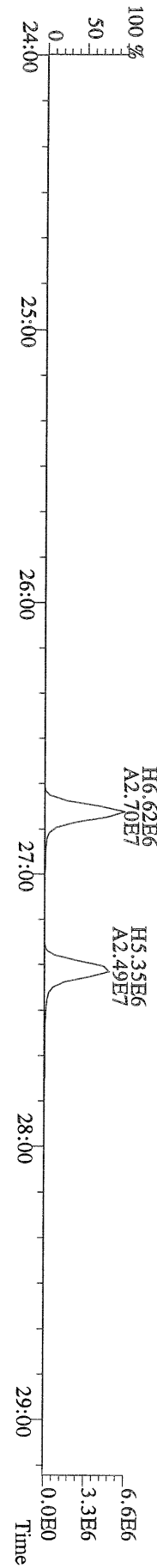
File:15AUG10M #1-357 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Fronter Analytical Laboratory



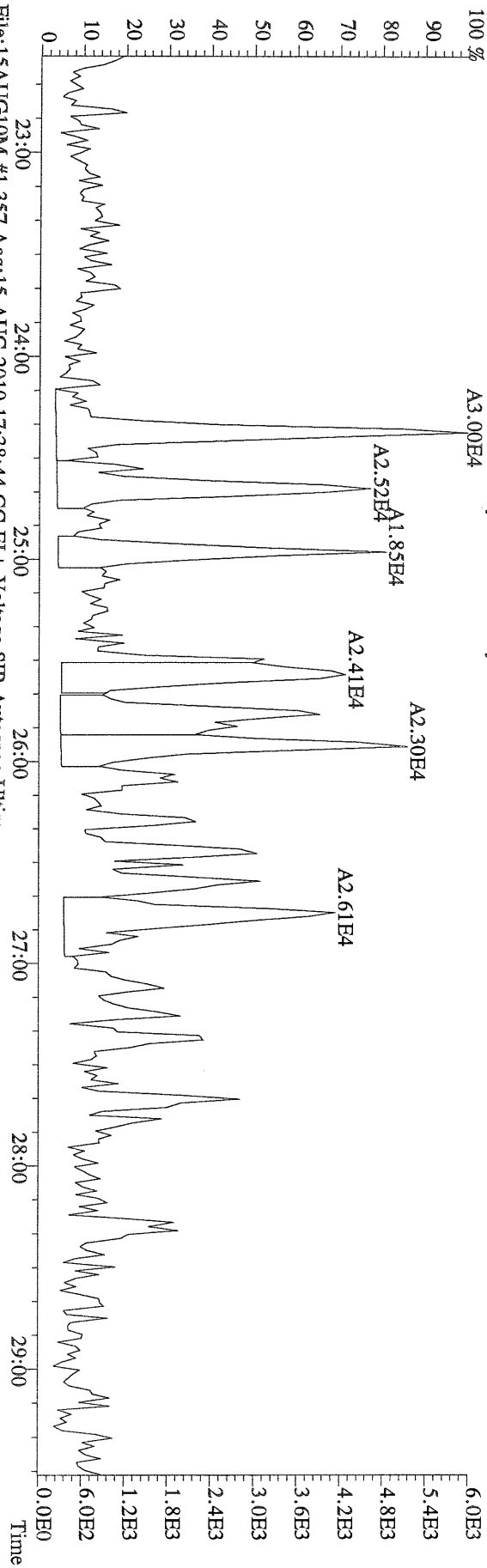
File:15AUG10M #1-357 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Fronter Analytical Laboratory



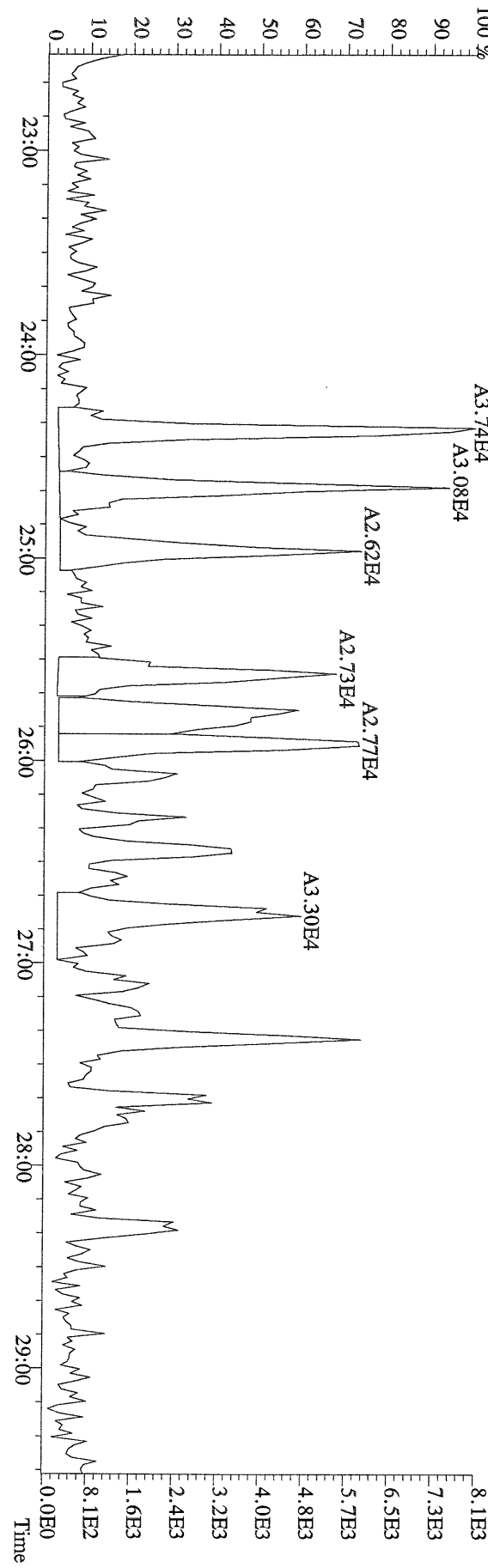
File:15AUG10M #1-357 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Fronter Analytical Laboratory



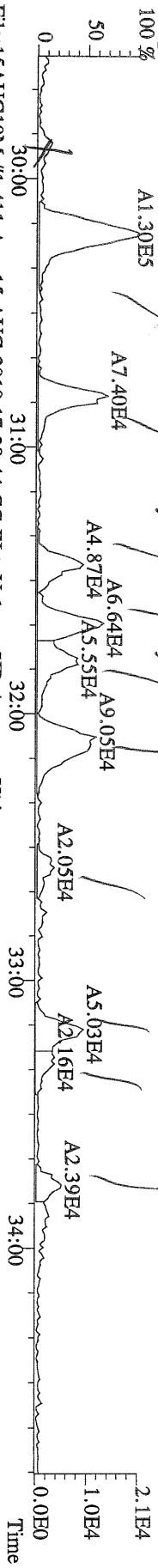
File:15AUG10M #1-357 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Utima
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



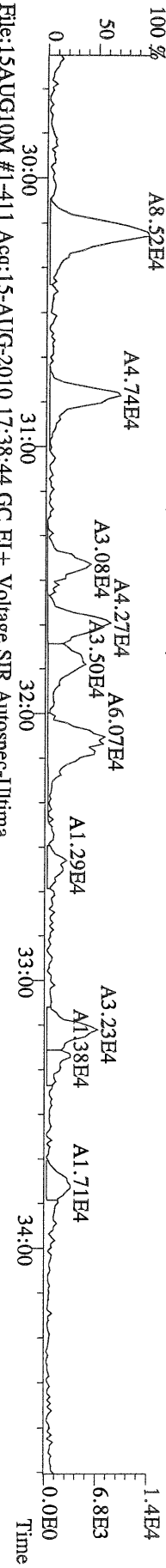
File:15AUG10M #1-357 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Utima
321.8936 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



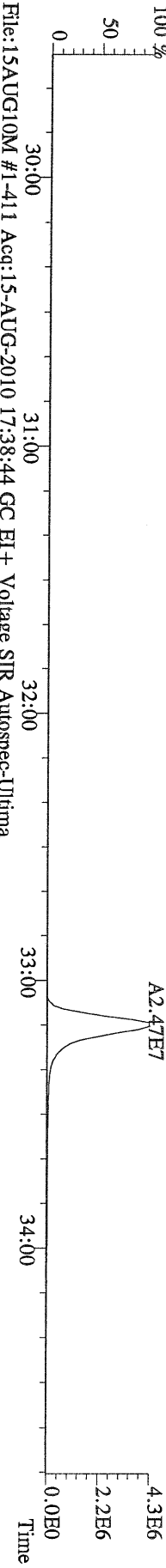
File:15AUG10M #1-411 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:7 F:2 BSUB(10000,15,-3.0) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



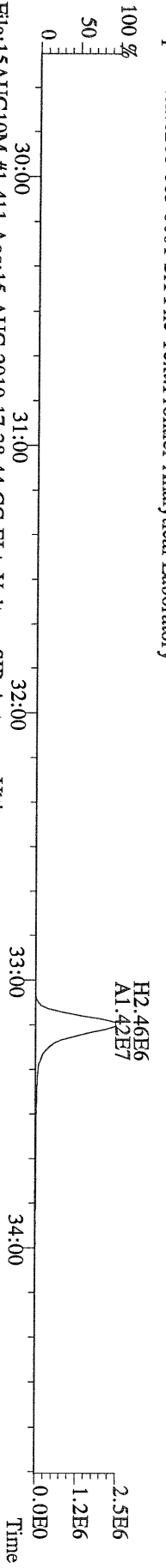
File:15AUG10M #1-411 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:7 F:2 BSUB(10000,15,-3.0) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



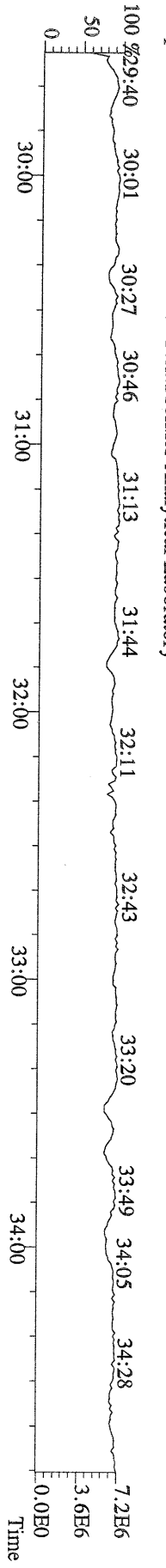
File:15AUG10M #1-411 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



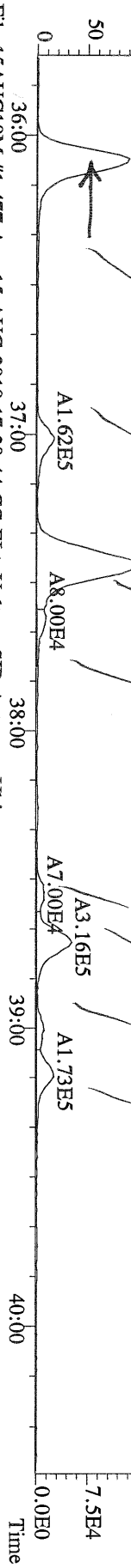
File:15AUG10M #1-411 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



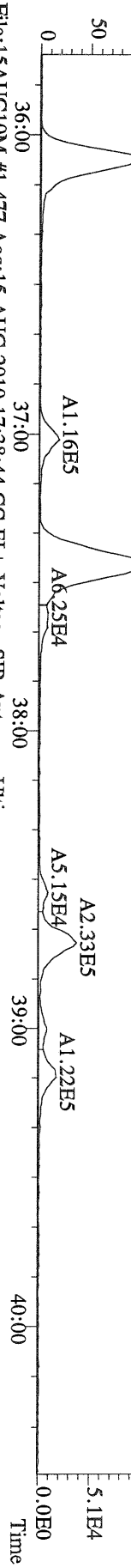
File:15AUG10M #1-411 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:7 F:2 Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



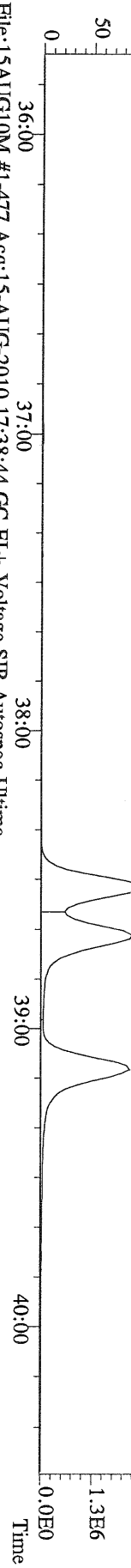
File:15AUG10M #1-477 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



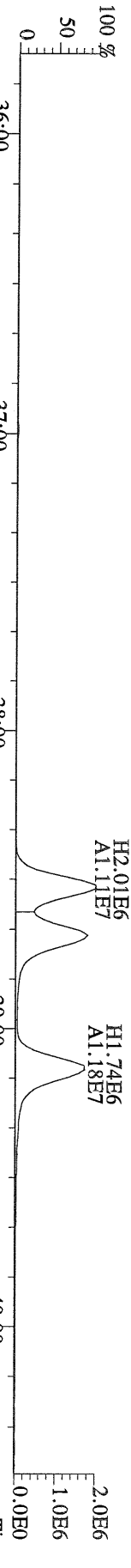
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 391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



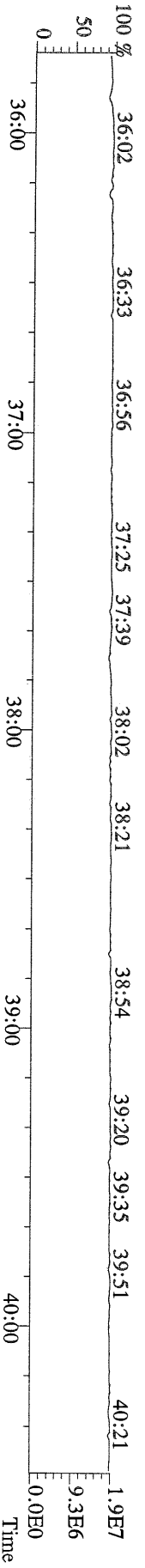
File:15AUG10M #1-477 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



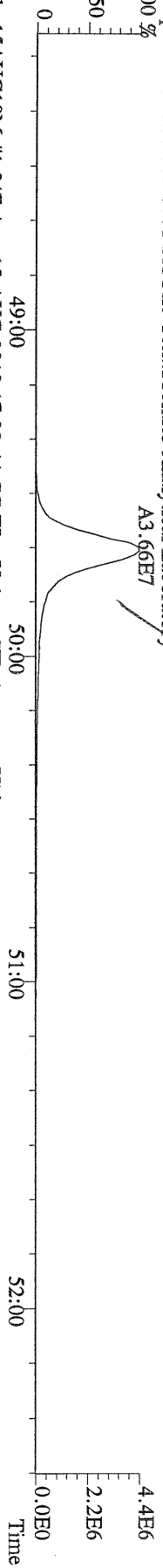
File:15AUG10M #1-477 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
 403.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



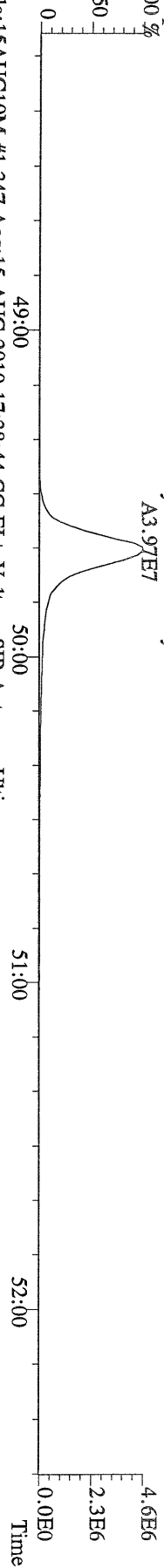
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 380.9760 S:7 F:3 Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



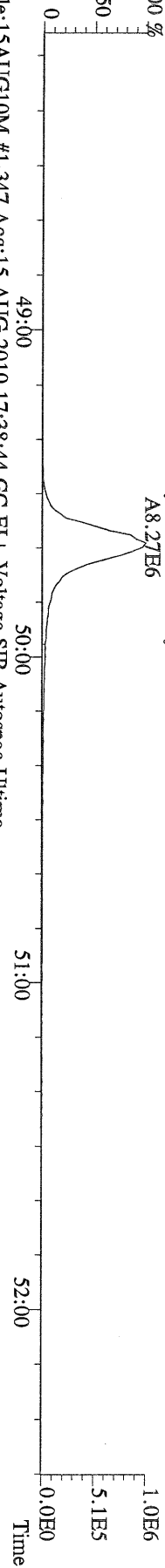
File:15AUG10M #1-347 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Utima
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



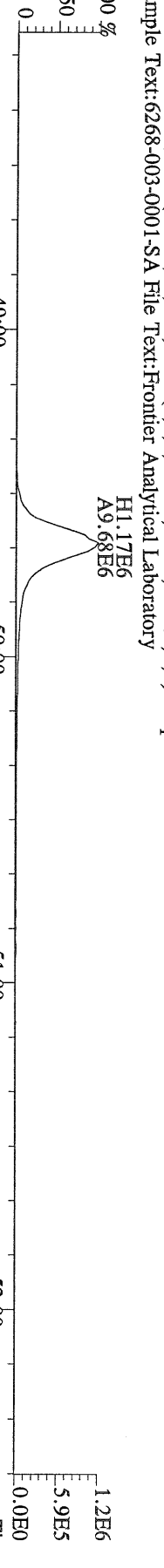
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459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



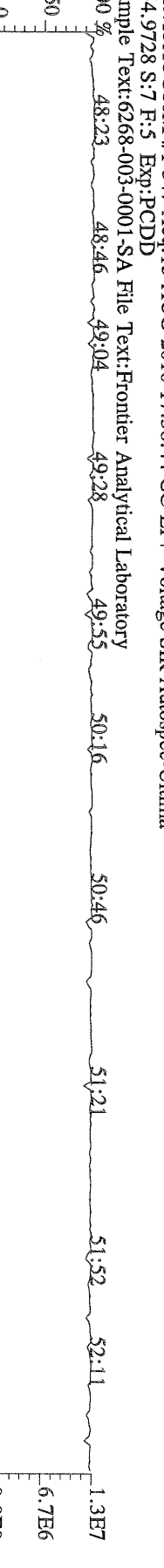
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469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



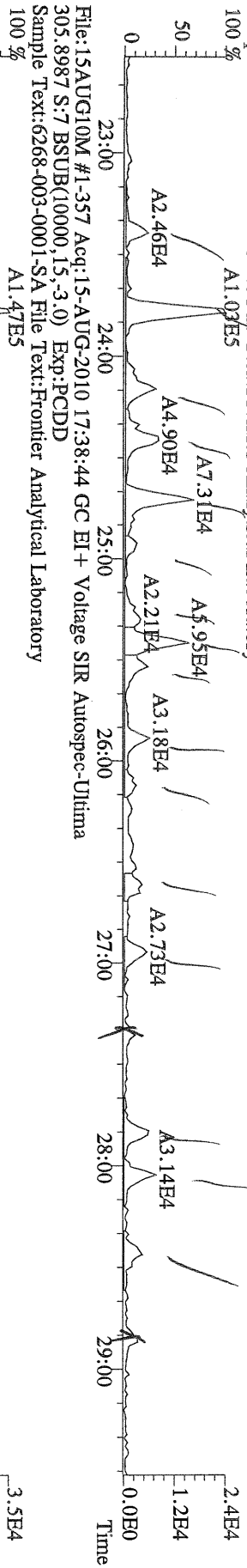
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471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



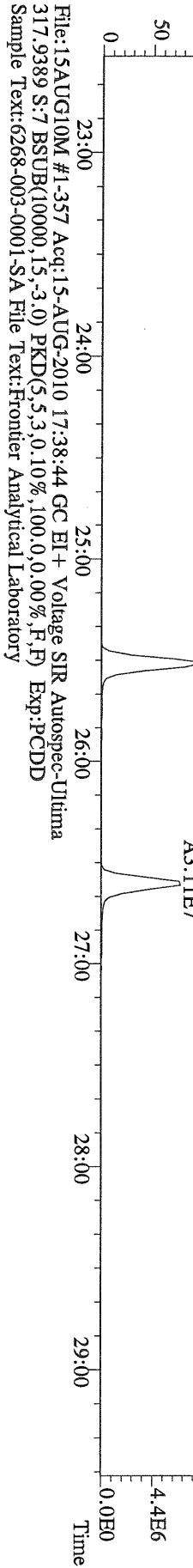
File:15AUG10M #1-347 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Utima
454.9728 S:7 F:5 Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



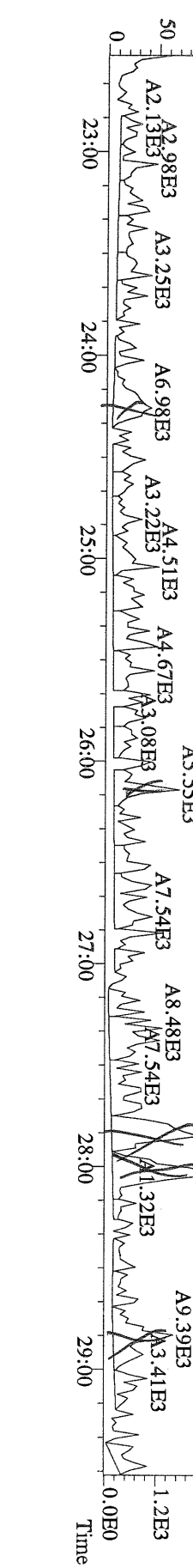
File:15AUG10M #1-357 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Utima
303.9016 S:7 BSUB(10000,15,-3.0) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



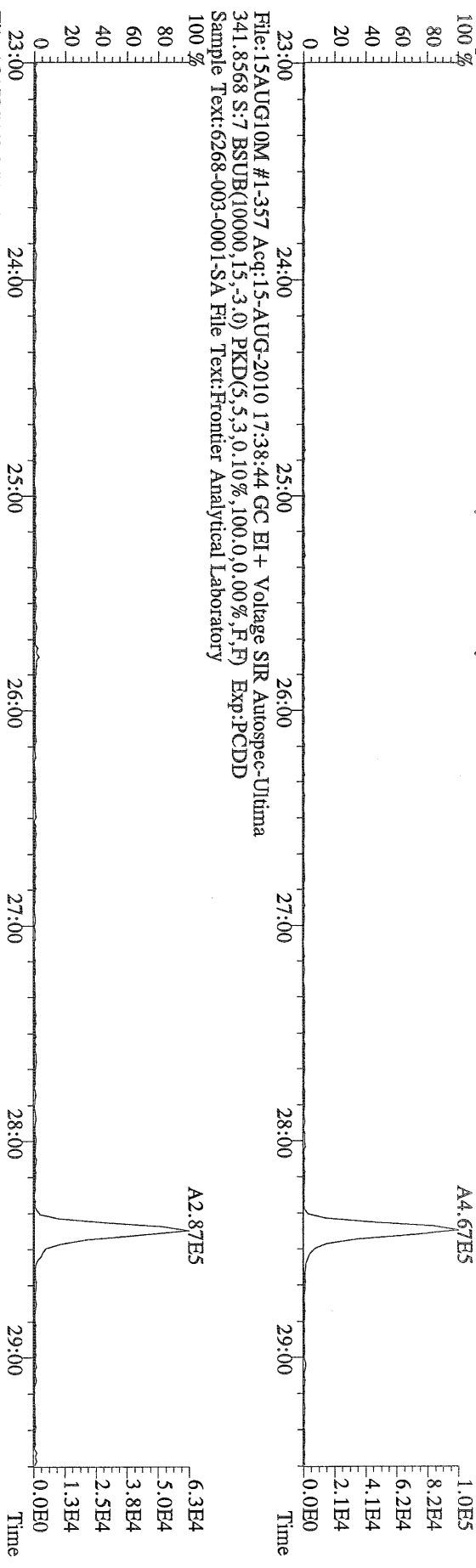
File:15AUG10M #1-357 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Utima
315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



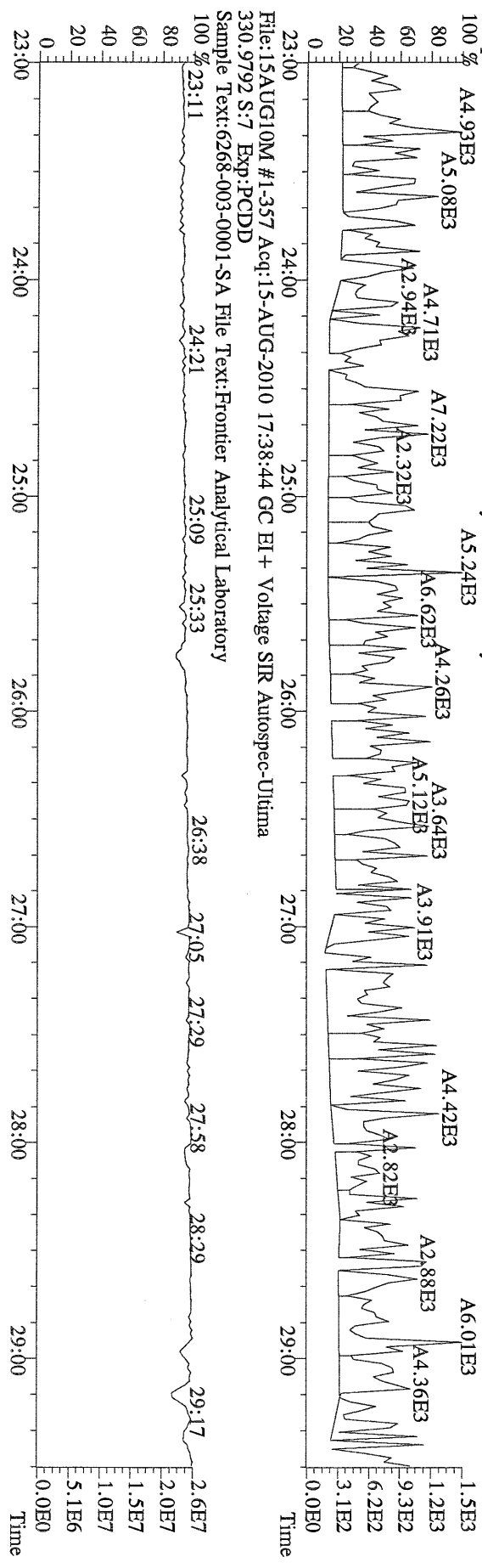
File:15AUG10M #1-357 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Utima
375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



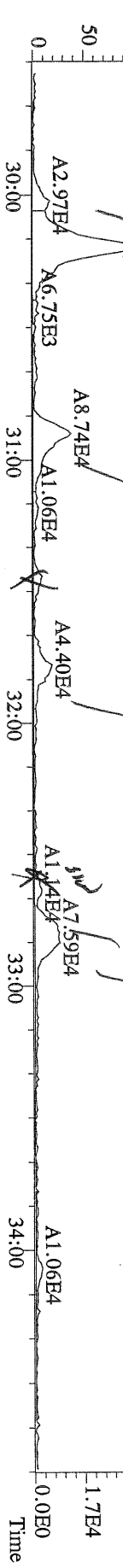
File:15AUG10M #1-357 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



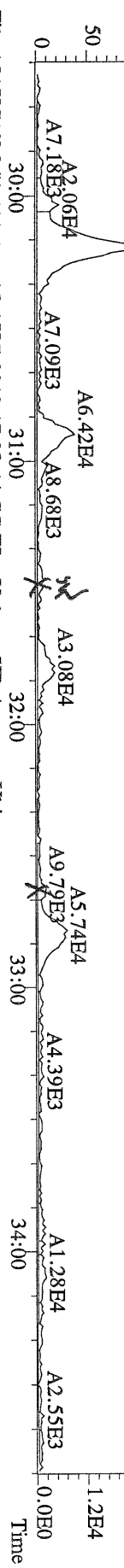
File:15AUG10M #1-357 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



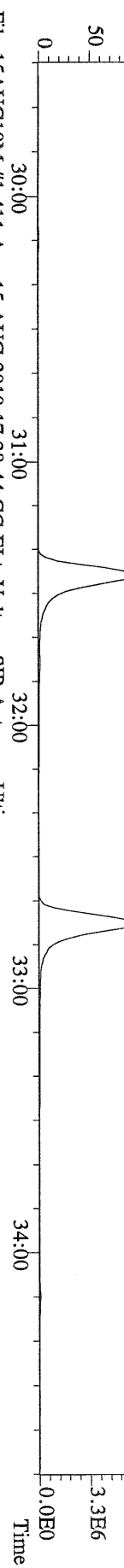
File:15AUG10M #1-411 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



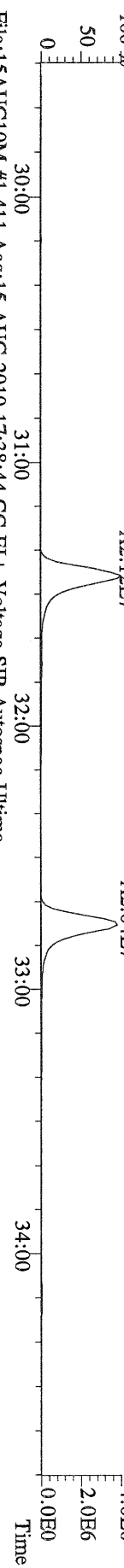
File:15AUG10M #1-411 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



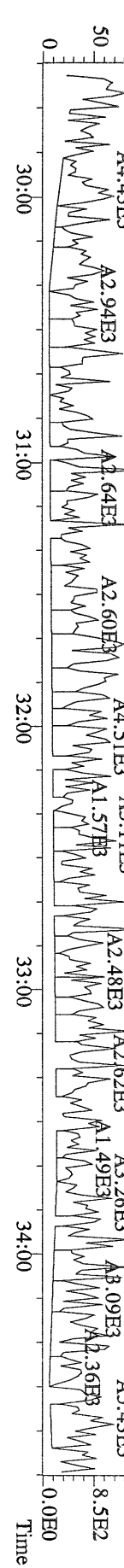
File:15AUG10M #1-411 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



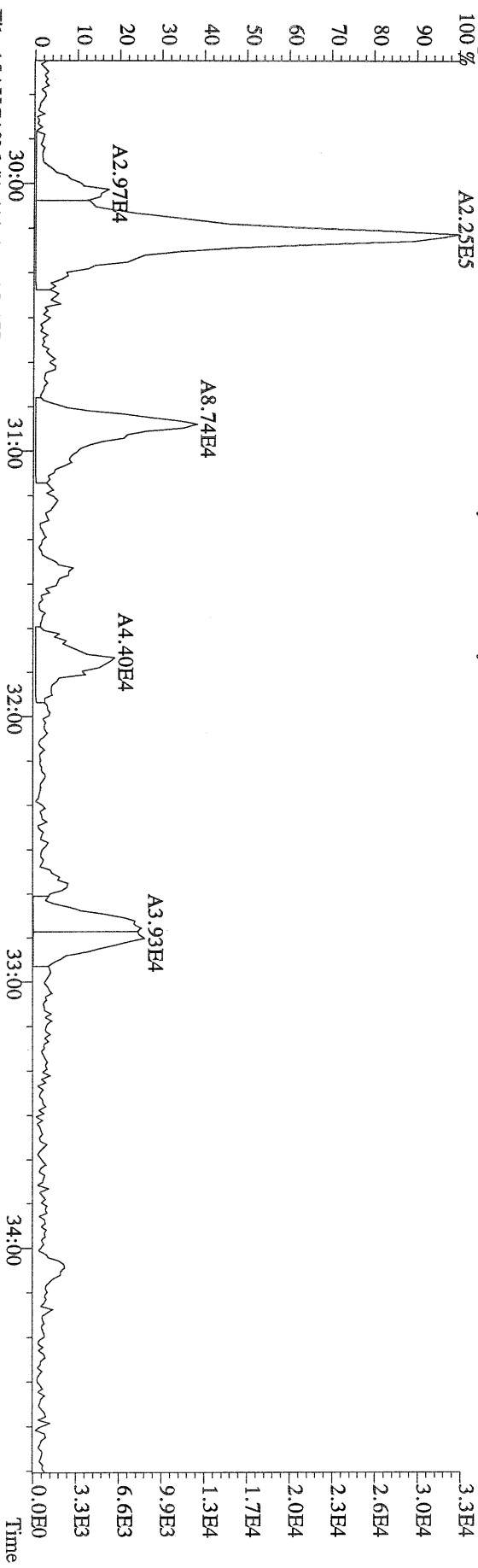
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 409.7974 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



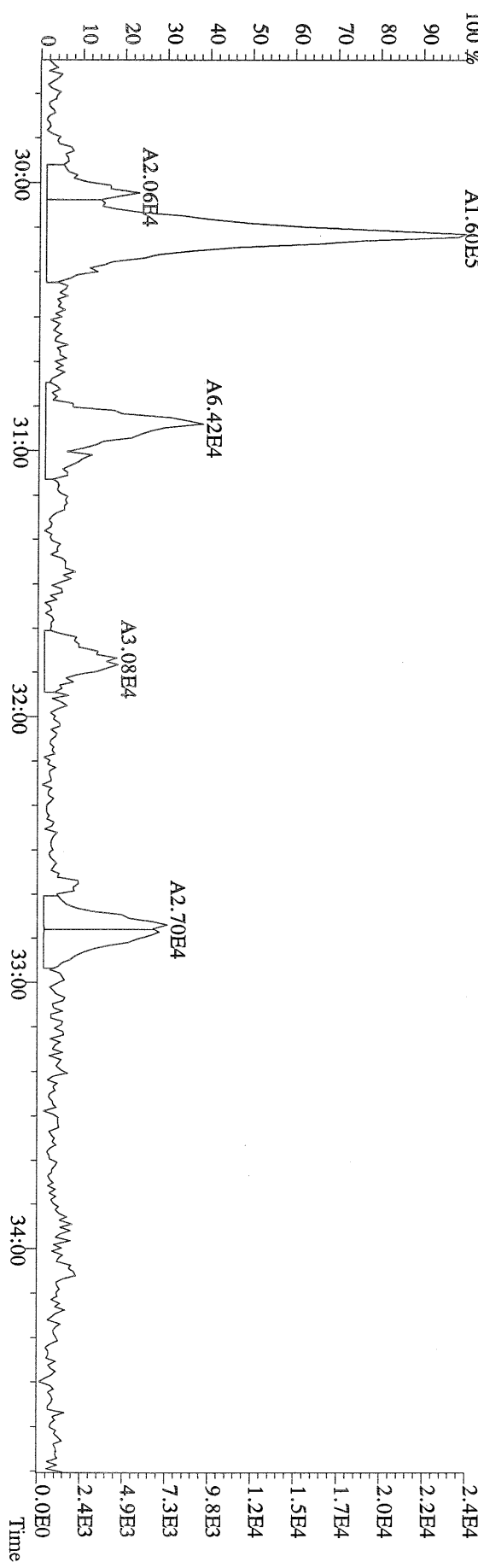
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 409.7974 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



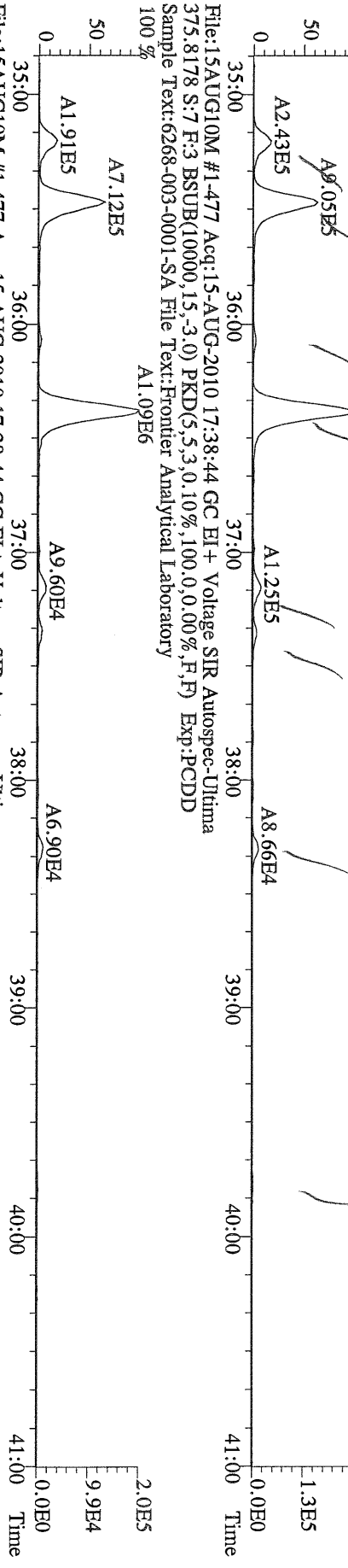
File:15AUG10M #1-411 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



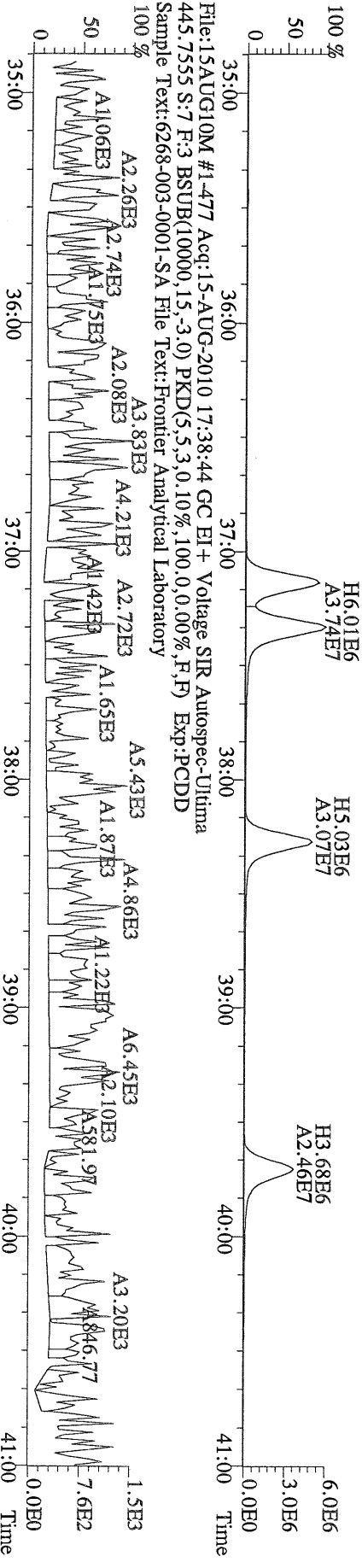
File:15AUG10M #1-411 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



File:15AUG10M #1-477 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



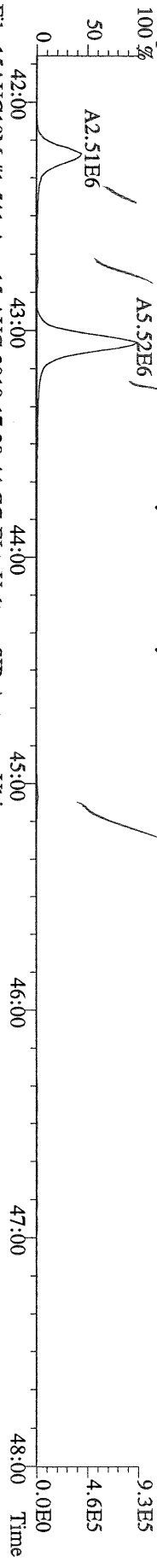
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383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



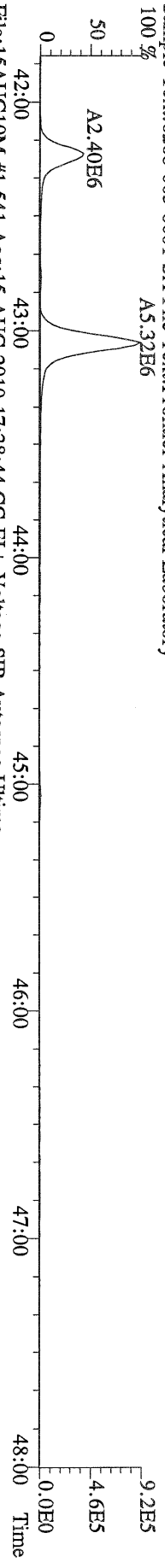
File:15AUG10M #1-477 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



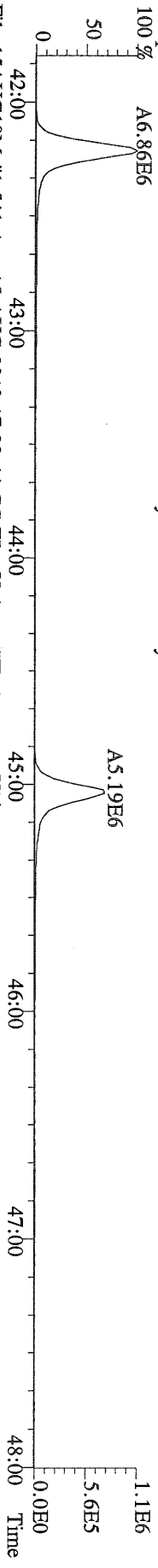
File:15AUG10M #1-541 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



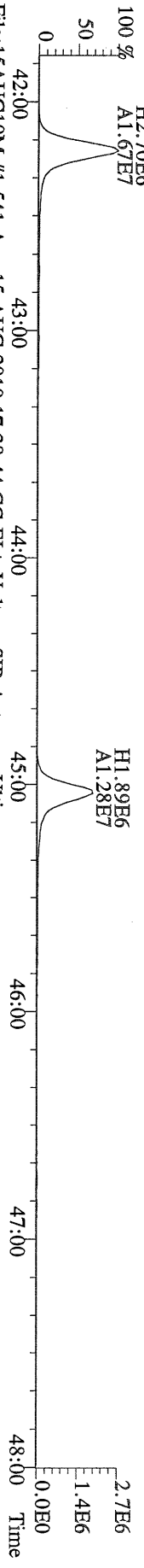
File:15AUG10M #1-541 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



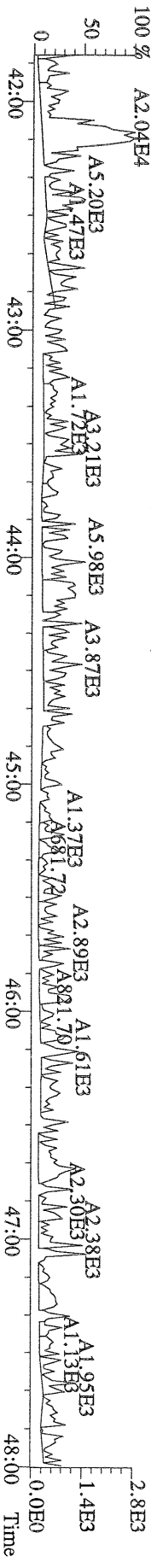
File:15AUG10M #1-541 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



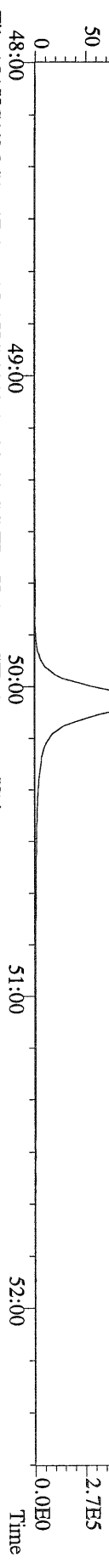
File:15AUG10M #1-541 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



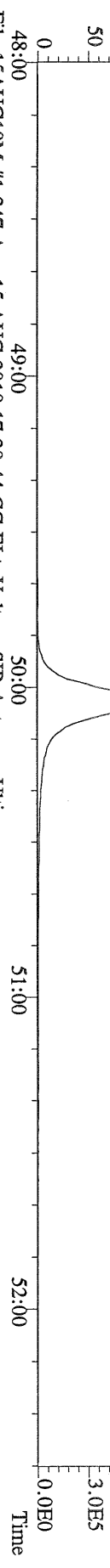
File:15AUG10M #1-541 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



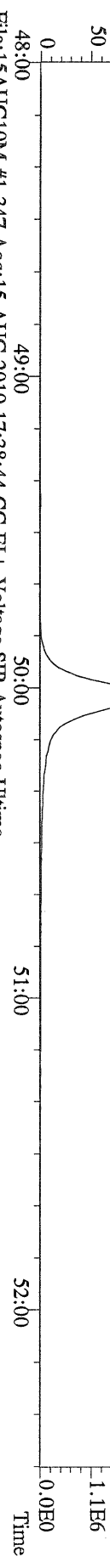
File:15AUG10M #1-347 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
 441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



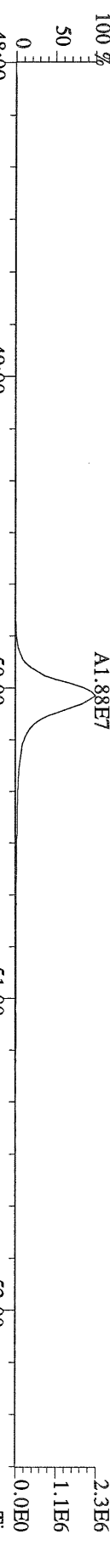
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 443.7398 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



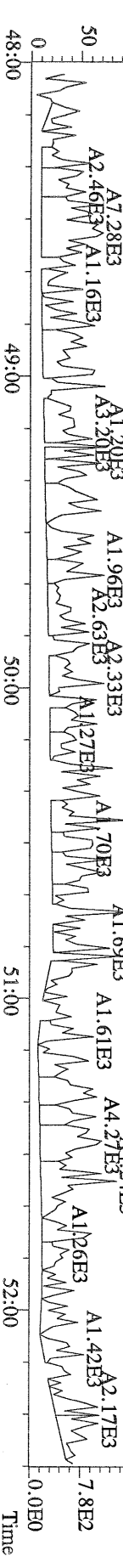
File:15AUG10M #1-347 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
 453.7831 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



File:15AUG10M #1-347 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
 455.7801 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



File:15AUG10M #1-347 Acq:15-AUG-2010 17:38:44 GC EI+ Voltage SIR Autospec-Ultima
 513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6268-003-0001-SA File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

Data Filename: 12MAY10M

Analyte: PCDDFAL3-5-12-10

Cal: PCDDFAL3-5-12-10

Name	RRF	S. D.	%RSD	S1 RRF#1	S2 RRF#2	S3 RRF#3	S4 RRF#4	S5 RRF#5	S6 RRF#6
2,3,7,8-TCDD	1.04	0.0556	5.37 %	1.01	1.12	0.97	1.02	1.01	1.08
1,2,3,7,8-PeCDD	1.05	0.0453	4.33 %	1.02	1.04	1.00	1.01	1.11	1.10
1,2,3,4,7,8-HxCDD	1.30	0.0354	2.72 %	1.27	1.29	1.26	1.30	1.33	1.35
1,2,3,6,7,8-HxCDD	1.28	0.0488	3.82 %	1.25	1.23	1.27	1.24	1.33	1.34
1,2,3,7,8,9-HxCDD	1.25	0.0604	4.84 %	1.26	1.14	1.25	1.24	1.28	1.32
1,2,3,4,6,7,8-HpCDD	1.35	0.0509	3.76 %	1.26	1.33	1.36	1.37	1.40	1.40
OCDD	1.25	0.0756	6.05 %	1.22	1.13	1.24	1.27	1.32	1.33
2,3,7,8-TCDF	1.62	0.0670	4.14 %	1.65	1.74	1.59	1.56	1.57	1.60
1,2,3,7,8-PeCDF	0.92	0.0408	4.45 %	0.89	0.89	0.86	0.94	0.95	0.96
2,3,4,7,8-PeCDF	0.94	0.0433	4.58 %	0.88	0.94	0.92	0.96	1.00	0.97
1,2,3,4,7,8-HxCDF	0.93	0.0447	4.80 %	0.90	0.88	0.90	0.93	0.97	1.00
1,2,3,6,7,8-HxCDF	0.84	0.0498	5.95 %	0.78	0.79	0.83	0.84	0.89	0.90
2,3,4,6,7,8-HxCDF	0.90	0.0469	5.24 %	0.85	0.87	0.86	0.89	0.94	0.96
1,2,3,7,8,9-HxCDF	0.98	0.0559	5.68 %	0.96	0.93	0.93	0.98	1.04	1.06
1,2,3,4,6,7,8-HpCDF	1.38	0.0717	5.19 %	1.32	1.32	1.33	1.38	1.45	1.48
1,2,3,4,7,8,9-HpCDF	1.62	0.104	6.40 %	1.53	1.55	1.56	1.60	1.76	1.75
OCDF	0.74	0.0371	5.02 %	0.70	0.72	0.72	0.73	0.77	0.80
13C-2,3,7,8-TCDD	0.93	0.0199	2.15 %	0.93	0.91	0.90	0.93	0.95	0.95
13C-1,2,3,7,8-PeCDD	0.81	0.0364	4.50 %	0.83	0.78	0.75	0.83	0.80	0.85
13C-1,2,3,4,7,8-HxCDD	0.95	0.0375	3.96 %	0.90	0.90	0.94	0.97	0.97	0.99
13C-1,2,3,6,7,8-HxCDD	1.00	0.0182	1.83 %	0.99	1.02	1.00	1.02	0.99	0.97
13C-1,2,3,4,6,7,8-HpCDD	0.92	0.0204	2.22 %	0.92	0.95	0.93	0.92	0.89	0.92
13C-OCDD	0.63	0.0244	3.86 %	0.64	0.63	0.62	0.64	0.59	0.67
13C-2,3,7,8-TCDF	0.87	0.0146	1.68 %	0.87	0.84	0.87	0.89	0.86	0.88
13C-1,2,3,7,8-PeCDF	0.81	0.0502	6.23 %	0.84	0.76	0.75	0.88	0.78	0.83
13C-2,3,4,7,8-PeCDF	0.75	0.0503	6.69 %	0.81	0.71	0.69	0.81	0.72	0.77
13C-1,2,3,4,7,8-HxCDF	1.74	0.0487	2.80 %	1.67	1.70	1.76	1.80	1.78	1.71
13C-1,2,3,6,7,8-HxCDF	2.17	0.0633	2.92 %	2.11	2.18	2.21	2.25	2.18	2.07
13C-2,3,4,6,7,8-HxCDF	1.82	0.0466	2.57 %	1.78	1.81	1.86	1.87	1.81	1.75
13C-1,2,3,7,8,9-HxCDF	1.49	0.0322	2.17 %	1.43	1.47	1.49	1.52	1.48	1.51
13C-1,2,3,4,6,7,8-HpCDF	1.10	0.0149	1.36 %	1.07	1.10	1.11	1.11	1.09	1.10
13C-1,2,3,4,7,8,9-HpCDF	0.81	0.0231	2.83 %	0.82	0.84	0.81	0.82	0.77	0.82
13C-OCDF	1.19	0.0430	3.63 %	1.20	1.15	1.16	1.18	1.16	1.27
37Cl-2,3,7,8-TCDD	0.93	0.0664	7.14 %	0.89	1.00	0.84	0.89	0.97	1.00
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-	-
13C-1,2,3,4-TCDF	-	-	- %	-	-	-	-	-	-
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-	-
Total Tetra-Dioxins	1.04	0.0556	5.37 %	1.01	1.12	0.97	1.02	1.01	1.08
Total Penta-Dioxins	1.05	0.0453	4.33 %	1.02	1.04	1.00	1.01	1.11	1.10
Total Hexa-Dioxins	1.27	0.0431	3.38 %	1.26	1.22	1.26	1.26	1.31	1.34
Total Hepta-Dioxins	1.35	0.0509	3.76 %	1.26	1.33	1.36	1.37	1.40	1.40
Total Tetra-Furans	1.62	0.0670	4.14 %	1.65	1.74	1.59	1.56	1.57	1.60
1st Fn. Tot Penta-Furans	0.93	0.0398	4.28 %	0.88	0.91	0.89	0.95	0.98	0.96
Total Penta-Furans	0.93	0.0398	4.28 %	0.88	0.91	0.89	0.95	0.98	0.96
Total Hexa-Furans	0.90	0.0483	5.34 %	0.86	0.86	0.87	0.90	0.95	0.97
Total Hepta-Furans	1.48	0.0839	5.65 %	1.41	1.42	1.43	1.47	1.58	1.60

Analyst: [Signature]

Date: 5/13/10

Run #2 Filename 12MAY10M
Client ID: ST051210M1

S: 2 Acquired: 12-MAY-10 14:18:09 Cal: PCDDFAL3-5-12-10
Analyte: FAL ID: 1613 CS1 090918H

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1 Unk	2,3,7,8-TCDD	0.50	1.68e+05	0.79 y	27:26	-	1.12 y
2 Unk	1,2,3,7,8-PeCDD	2.50	6.69e+05	1.68 y	33:15	-	1.04 y
3 Unk	1,2,3,4,7,8-HxCDD	2.50	5.98e+05	1.29 y	38:34	-	1.29 y
4 Unk	1,2,3,6,7,8-HxCDD	2.50	6.42e+05	1.28 y	38:44	-	1.23 y
5 Unk	1,2,3,7,8,9-HxCDD	2.50	5.62e+05	1.33 y	39:10	-	1.14 y
6 Unk	1,2,3,4,6,7,8-HpCDD	2.50	6.52e+05	1.07 y	44:10	-	1.33 y
7 Unk	OCDD	5.00	7.33e+05	0.93 y	49:40	-	1.13 y
8 Unk	2,3,7,8-TCDF	0.50	3.85e+05	0.67 y	26:41	-	1.74 y
9 Unk	1,2,3,7,8-PeCDF	2.50	8.92e+05	1.44 y	31:30	-	0.894 y
10 Unk	2,3,4,7,8-PeCDF	2.50	8.75e+05	1.46 y	32:49	-	0.935 y
11 Unk	1,2,3,4,7,8-HxCDF	2.50	7.75e+05	1.30 y	37:11	-	0.884 y
12 Unk	1,2,3,6,7,8-HxCDF	2.50	8.85e+05	1.29 y	37:23	-	0.787 y
13 Unk	2,3,4,6,7,8-HxCDF	2.50	8.14e+05	1.28 y	38:19	-	0.873 y
14 Unk	1,2,3,7,8,9-HxCDF	2.50	7.09e+05	1.16 y	39:45	-	0.934 y
15 Unk	1,2,3,4,6,7,8-HpCDF	2.50	7.48e+05	1.04 y	42:14	-	1.32 y
16 Unk	1,2,3,4,7,8,9-HpCDF	2.50	6.73e+05	1.07 y	45:04	-	1.55 y
17 Unk	OCDF	5.00	8.52e+05	0.91 y	50:02	-	0.719 y
18 IS/RT	13C-2,3,7,8-TCDD	100.00	2.98e+07	0.79 y	27:25	-	0.909 y
19 IS	13C-1,2,3,7,8-PeCDD	100.00	2.56e+07	1.78 y	33:13	-	0.782 y
20 IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.86e+07	1.29 y	38:33	-	0.901 y
21 IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.09e+07	1.28 y	38:43	-	1.02 y
22 IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.95e+07	1.02 y	44:08	-	0.948 y
23 IS	13C-OCDD	200.00	2.60e+07	0.92 y	49:39	-	0.632 y
24 IS	13C-2,3,7,8-TCDF	100.00	4.43e+07	0.87 y	26:40	-	0.843 y
25 IS	13C-1,2,3,7,8-PeCDF	100.00	3.99e+07	1.70 y	31:29	-	0.760 y
26 IS	13C-2,3,4,7,8-PeCDF	100.00	3.74e+07	1.70 y	32:48	-	0.712 y
27 IS	13C-1,2,3,4,7,8-HxCDF	100.00	3.51e+07	0.56 y	37:10	-	1.70 y
28 IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.50e+07	0.56 y	37:21	-	2.18 y
29 IS	13C-2,3,4,6,7,8-HxCDF	100.00	3.73e+07	0.54 y	38:18	-	1.81 y
30 IS	13C-1,2,3,7,8,9-HxCDF	100.00	3.04e+07	0.57 y	39:44	-	1.47 y
31 IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.27e+07	0.44 y	42:14	-	1.10 y
32 IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.73e+07	0.43 y	45:03	-	0.840 y
33 IS	13C-OCDF	200.00	4.74e+07	0.98 y	50:02	-	1.15 y
34 C/Up	37Cl-2,3,7,8-TCDD	0.50	1.63e+05		27:26	-	0.995 y
35 RS	13C-1,2,3,4-TCDD	100.00	3.28e+07	0.80 y	26:49	3.28e+05	- n
36 RS	13C-1,2,3,4-TCDF	100.00	5.25e+07	0.88 y	25:34	5.25e+05	- n
37 RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	2.06e+07	1.30 y	39:10	2.06e+05	- n
38 Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.12 y
39 Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.04 y
40 Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.22 y
41 Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.33 y
42 Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.74 y
43 Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.914 y
44 Tot	Total Penta-Furans	0.00	-	- n	-	-	0.914 y
45 Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.862 y
46 Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.42 y

Analyst: 

Date: 5/13/10

Run #3 Filename 12MAY10M
Client ID: ST051210M2

S: 3

Acquired: 12-MAY-10 15:13:32

Cal: PCDDFAL3-5-12-10

Analyte:

FAL ID: 1613 CS2 0909181

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1 Unk	2,3,7,8-TCDD	2.00	5.92e+05	0.78 y	27:26	-	0.972 y
2 Unk	1,2,3,7,8-PeCDD	10.00	2.54e+06	1.74 y	33:14	-	1.00 y
3 Unk	1,2,3,4,7,8-HxCDD	10.00	2.35e+06	1.32 y	38:34	-	1.26 y
4 Unk	1,2,3,6,7,8-HxCDD	10.00	2.50e+06	1.31 y	38:44	-	1.27 y
5 Unk	1,2,3,7,8,9-HxCDD	10.00	2.40e+06	1.33 y	39:11	-	1.25 y
6 Unk	1,2,3,4,6,7,8-HpCDD	10.00	2.50e+06	1.04 y	44:10	-	1.36 y
7 Unk	OCDD	20.00	3.06e+06	0.88 y	49:41	-	1.24 y
8 Unk	2,3,7,8-TCDF	2.00	1.46e+06	0.70 y	26:41	-	1.59 y
9 Unk	1,2,3,7,8-PeCDF	10.00	3.43e+06	1.51 y	31:30	-	0.862 y
10 Unk	2,3,4,7,8-PeCDF	10.00	3.37e+06	1.54 y	32:50	-	0.920 y
11 Unk	1,2,3,4,7,8-HxCDF	10.00	3.14e+06	1.28 y	37:11	-	0.897 y
12 Unk	1,2,3,6,7,8-HxCDF	10.00	3.63e+06	1.29 y	37:23	-	0.829 y
13 Unk	2,3,4,6,7,8-HxCDF	10.00	3.17e+06	1.30 y	38:20	-	0.861 y
14 Unk	1,2,3,7,8,9-HxCDF	10.00	2.76e+06	1.32 y	39:46	-	0.931 y
15 Unk	1,2,3,4,6,7,8-HpCDF	10.00	2.94e+06	1.05 y	42:15	-	1.33 y
16 Unk	1,2,3,4,7,8,9-HpCDF	10.00	2.51e+06	1.05 y	45:05	-	1.56 y
17 Unk	OCDF	20.00	3.34e+06	0.88 y	50:04	-	0.725 y
18 IS/RT	13C-2,3,7,8-TCDD	100.00	3.04e+07	0.80 y	27:25	-	0.901 y
19 IS	13C-1,2,3,7,8-PeCDD	100.00	2.54e+07	1.75 y	33:13	-	0.752 y
20 IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.87e+07	1.30 y	38:34	-	0.942 y
21 IS	13C-1,2,3,6,7,8-HxCDD	100.00	1.97e+07	1.31 y	38:44	-	0.996 y
22 IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.84e+07	1.07 y	44:08	-	0.927 y
23 IS	13C-OCDD	200.00	2.47e+07	0.98 y	49:40	-	0.623 y
24 IS	13C-2,3,7,8-TCDF	100.00	4.59e+07	0.88 y	26:40	-	0.867 y
25 IS	13C-1,2,3,7,8-PeCDF	100.00	3.98e+07	1.67 y	31:30	-	0.752 y
26 IS	13C-2,3,4,7,8-PeCDF	100.00	3.66e+07	1.69 y	32:49	-	0.692 y
27 IS	13C-1,2,3,4,7,8-HxCDF	100.00	3.49e+07	0.55 y	37:10	-	1.76 y
28 IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.38e+07	0.55 y	37:22	-	2.21 y
29 IS	13C-2,3,4,6,7,8-HxCDF	100.00	3.69e+07	0.55 y	38:18	-	1.86 y
30 IS	13C-1,2,3,7,8,9-HxCDF	100.00	2.96e+07	0.56 y	39:44	-	1.49 y
31 IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.21e+07	0.44 y	42:14	-	1.11 y
32 IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.61e+07	0.43 y	45:03	-	0.814 y
33 IS	13C-OCDF	200.00	4.61e+07	0.96 y	50:03	-	1.16 y
34 C/Up	37Cl-2,3,7,8-TCDD	2.00	5.65e+05		27:26	-	0.836 y
35 RS	13C-1,2,3,4-TCDD	100.00	3.38e+07	0.81 y	26:51	3.38e+05	- n
36 RS	13C-1,2,3,4-TCDF	100.00	5.29e+07	0.88 y	25:34	5.29e+05	- n
37 RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	1.98e+07	1.34 y	39:10	1.98e+05	- n
38 Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	0.972 y
39 Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.00 y
40 Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.26 y
41 Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.36 y
42 Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.59 y
43 Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.890 y
44 Tot	Total Penta-Furans	0.00	-	- n	-	-	0.890 y
45 Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.874 y
46 Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.43 y

Analyst: 

Date: 5/13/10

Run #4 Filename 12MAY10M
Client ID: ST051210M3

S: 4 Acquired: 12-MAY-10 16:08:51 Cal: PCDDFAL3-5-12-10
Analyte: FAL ID: 1613 CS3 090918J

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1 Unk	2,3,7,8-TCDD	10.00	3.10e+06	0.78 y	27:27	-	1.02 y
2 Unk	1,2,3,7,8-PeCDD	50.00	1.38e+07	1.70 y	33:15	-	1.01 y
3 Unk	1,2,3,4,7,8-HxCDD	50.00	1.26e+07	1.30 y	38:35	-	1.30 y
4 Unk	1,2,3,6,7,8-HxCDD	50.00	1.26e+07	1.30 y	38:45	-	1.24 y
5 Unk	1,2,3,7,8,9-HxCDD	50.00	1.23e+07	1.28 y	39:11	-	1.24 y
6 Unk	1,2,3,4,6,7,8-HpCDD	50.00	1.26e+07	1.11 y	44:10	-	1.37 y
7 Unk	OCDD	100.00	1.62e+07	0.93 y	49:41	-	1.27 y
8 Unk	2,3,7,8-TCDF	10.00	6.83e+06	0.72 y	26:41	-	1.56 y
9 Unk	1,2,3,7,8-PeCDF	50.00	2.04e+07	1.54 y	31:31	-	0.943 y
10 Unk	2,3,4,7,8-PeCDF	50.00	1.91e+07	1.55 y	32:50	-	0.962 y
11 Unk	1,2,3,4,7,8-HxCDF	50.00	1.67e+07	1.29 y	37:11	-	0.930 y
12 Unk	1,2,3,6,7,8-HxCDF	50.00	1.89e+07	1.30 y	37:24	-	0.842 y
13 Unk	2,3,4,6,7,8-HxCDF	50.00	1.67e+07	1.30 y	38:19	-	0.890 y
14 Unk	1,2,3,7,8,9-HxCDF	50.00	1.49e+07	1.27 y	39:45	-	0.976 y
15 Unk	1,2,3,4,6,7,8-HpCDF	50.00	1.54e+07	1.05 y	42:15	-	1.38 y
16 Unk	1,2,3,4,7,8,9-HpCDF	50.00	1.31e+07	1.05 y	45:04	-	1.60 y
17 Unk	OCDF	100.00	1.73e+07	0.87 y	50:04	-	0.731 y
18 IS/RT	13C-2,3,7,8-TCDD	100.00	3.06e+07	0.80 y	27:25	-	0.927 y
19 IS	13C-1,2,3,7,8-PeCDD	100.00	2.73e+07	1.77 y	33:13	-	0.828 y
20 IS	13C-1,2,3,4,7,8-HxCDD	100.00	1.94e+07	1.29 y	38:33	-	0.966 y
21 IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.04e+07	1.28 y	38:43	-	1.02 y
22 IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.84e+07	1.06 y	44:09	-	0.917 y
23 IS	13C-OCDD	200.00	2.56e+07	0.91 y	49:41	-	0.638 y
24 IS	13C-2,3,7,8-TCDF	100.00	4.37e+07	0.88 y	26:40	-	0.885 y
25 IS	13C-1,2,3,7,8-PeCDF	100.00	4.32e+07	1.70 y	31:29	-	0.877 y
26 IS	13C-2,3,4,7,8-PeCDF	100.00	3.97e+07	1.71 y	32:49	-	0.805 y
27 IS	13C-1,2,3,4,7,8-HxCDF	100.00	3.60e+07	0.55 y	37:10	-	1.80 y
28 IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.50e+07	0.56 y	37:22	-	2.25 y
29 IS	13C-2,3,4,6,7,8-HxCDF	100.00	3.76e+07	0.55 y	38:19	-	1.87 y
30 IS	13C-1,2,3,7,8,9-HxCDF	100.00	3.05e+07	0.56 y	39:45	-	1.52 y
31 IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.22e+07	0.43 y	42:14	-	1.11 y
32 IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.64e+07	0.42 y	45:03	-	0.817 y
33 IS	13C-OCDF	200.00	4.74e+07	0.98 y	50:02	-	1.18 y
34 C/Up	37Cl-2,3,7,8-TCDD	10.00	2.93e+06		27:27	-	0.889 y
35 RS	13C-1,2,3,4-TCDD	100.00	3.30e+07	0.81 y	26:50	3.30e+05	- n
36 RS	13C-1,2,3,4-TCDF	100.00	4.93e+07	0.87 y	25:34	4.93e+05	- n
37 RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	2.00e+07	1.28 y	39:10	2.00e+05	- n
38 Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.02 y
39 Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.01 y
40 Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.26 y
41 Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.37 y
42 Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.56 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	-	-	0.903 y
46 Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.47 y

Analyst: 

Date: 5/13/10

USEPA - ITD

FORM 3A

PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

CS0 Data Filename: 12MAY10M S1 CS3 Data Filename: 12MAY10M S4

CS1 Data Filename: 12MAY10M S2 CS4 Data Filename: 12MAY10M S5

CS2 Data Filename: 12MAY10M S3 CS5 Data Filename: 12MAY10M S6

	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
NATIVE ANALYTES								
2,3,7,8-TCDD	1.01	1.12	0.97	1.02	1.01	1.08	1.04	5.37
1,2,3,7,8-PeCDD	1.02	1.04	1.00	1.01	1.11	1.10	1.05	4.33
1,2,3,4,7,8-HxCDD	1.27	1.29	1.26	1.30	1.33	1.35	1.30	2.72
1,2,3,6,7,8-HxCDD	1.25	1.23	1.27	1.24	1.33	1.34	1.28	3.82
1,2,3,7,8,9-HxCDD	1.26	1.14	1.25	1.24	1.28	1.32	1.25	4.84
1,2,3,4,6,7,8-HpCDD	1.26	1.33	1.36	1.37	1.40	1.40	1.35	3.76
OCDD	1.22	1.13	1.24	1.27	1.32	1.33	1.25	6.05
2,3,7,8-TCDF	1.65	1.74	1.59	1.56	1.57	1.60	1.62	4.14
1,2,3,7,8-PeCDF	0.89	0.89	0.86	0.94	0.95	0.96	0.92	4.45
2,3,4,7,8-PeCDF	0.88	0.94	0.92	0.96	1.00	0.97	0.94	4.58
1,2,3,4,7,8-HxCDF	0.90	0.88	0.90	0.93	0.97	1.00	0.93	4.80
1,2,3,6,7,8-HxCDF	0.78	0.79	0.83	0.84	0.89	0.90	0.84	5.95
2,3,4,6,7,8-HxCDF	0.85	0.87	0.86	0.89	0.94	0.96	0.90	5.24
1,2,3,7,8,9-HxCDF	0.96	0.93	0.93	0.98	1.04	1.06	0.98	5.68
1,2,3,4,6,7,8-HpCDF	1.32	1.32	1.33	1.38	1.45	1.48	1.38	5.19
1,2,3,4,7,8,9-HpCDF	1.53	1.55	1.56	1.60	1.76	1.75	1.62	6.40
OCDF	0.70	0.72	0.72	0.73	0.77	0.80	0.74	5.02

Analyst: 

Date: 5/13/10

USEPA - ITD

FORM 3B

PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3


GC Column ID: DB5

CS0 Data Filename: 12MAY10M S1 CS4 Data Filename: 12MAY10M S4

CS1 Data Filename: 12MAY10M S2 CS4 Data Filename: 12MAY10M S5

CS2 Data Filename: 12MAY10M S3 CS5 Data Filename: 12MAY10M S6

Labeled Compounds	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
13C-2,3,7,8-TCDD	0.93	0.91	0.90	0.93	0.95	0.95	0.93	2.15
13C-1,2,3,7,8-PeCDD	0.83	0.78	0.75	0.83	0.80	0.85	0.81	4.50
13C-1,2,3,4,7,8-HxCDD	0.90	0.90	0.94	0.97	0.97	0.99	0.95	3.96
13C-1,2,3,6,7,8-HxCDD	0.99	1.02	1.00	1.02	0.99	0.97	1.00	1.83
13C-1,2,3,4,6,7,8-HpCDD	0.92	0.95	0.93	0.92	0.89	0.92	0.92	2.22
13C-OCDD	0.64	0.63	0.62	0.64	0.59	0.67	0.63	3.86
13C-2,3,7,8-TCDF	0.87	0.84	0.87	0.89	0.86	0.88	0.87	1.68
13C-1,2,3,7,8-PeCDF	0.84	0.76	0.75	0.88	0.78	0.83	0.81	6.23
13C-2,3,4,7,8-PeCDF	0.81	0.71	0.69	0.81	0.72	0.77	0.75	6.69
13C-1,2,3,4,7,8-HxCDF	1.67	1.70	1.76	1.80	1.78	1.71	1.74	2.80
13C-1,2,3,6,7,8-HxCDF	2.11	2.18	2.21	2.25	2.18	2.07	2.17	2.92
13C-2,3,4,6,7,8-HxCDF	1.78	1.81	1.86	1.87	1.81	1.75	1.82	2.57
13C-1,2,3,7,8,9-HxCDF	1.43	1.47	1.49	1.52	1.48	1.51	1.49	2.17
13C-1,2,3,4,6,7,8-HpCDF	1.07	1.10	1.11	1.11	1.09	1.10	1.10	1.36
13C-1,2,3,4,7,8,9-HpCDF	0.82	0.84	0.81	0.82	0.77	0.82	0.81	2.83
13C-OCDF	1.20	1.15	1.16	1.18	1.16	1.27	1.19	3.63
CLEANUP STANDARD								
37Cl-2,3,7,8-TCDD	0.89	1.00	0.84	0.89	0.97	1.00	0.93	7.14

Analyst: Date: 5/13/10

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: 5/12/10

Instrument ID: FAL3


GC Column ID: DB5

CS0 Data Filename: 12MAY10M S1 CS3 Data Filename: 12MAY10M S4

CS1 Data Filename: 12MAY10M S2 CS4 Data Filename: 12MAY10M S5

CS2 Data Filename: 12MAY10M S3 CS5 Data Filename: 12MAY10M 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	0.81	0.79	0.78	0.78	0.77	0.77	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.62	1.68	1.74	1.70	1.68	1.67	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.34	1.29	1.32	1.30	1.29	1.30	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.31	1.28	1.31	1.30	1.29	1.30	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.31	1.33	1.33	1.28	1.22	1.30	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.14	1.07	1.04	1.11	1.06	1.08	0.88-1.20
OCDD	M+2/M+4	0.97	0.93	0.88	0.93	0.93	0.93	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.69	0.67	0.70	0.72	0.71	0.70	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.45	1.44	1.51	1.54	1.54	1.53	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.49	1.46	1.54	1.55	1.53	1.53	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.28	1.30	1.28	1.29	1.28	1.28	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.32	1.29	1.29	1.30	1.29	1.28	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.31	1.28	1.30	1.30	1.28	1.28	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.35	1.16	1.32	1.27	1.31	1.29	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	1.04	1.05	1.05	1.04	1.05	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.99	1.07	1.05	1.05	1.06	1.05	0.88-1.20
OCDF	M+2/M+4	0.94	0.91	0.88	0.87	0.90	0.88	0.76-1.02

Analyst: Date: 5/13/10

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: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

CS0 Data Filename: 12MAY10M S1

CS3 Data Filename: 12MAY10M S4

CS1 Data Filename: 12MAY10M S2

CS4 Data Filename: 12MAY10M S5

CS2 Data Filename: 12MAY10M S3

CS5 Data Filename: 12MAY10M 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	0.79	0.79	0.80	0.80	0.79	0.80	0.65-0.89
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.76	1.78	1.75	1.77	1.72	1.75	1.32-1.78
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.30	1.29	1.30	1.29	1.29	1.28	1.05-1.43
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.29	1.28	1.31	1.28	1.29	1.28	1.05-1.43
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	1.02	1.07	1.06	1.04	1.04	0.88-1.20
13C-OCDD	M+2/M+4	0.87	0.92	0.98	0.91	0.90	0.92	0.76-1.02
13C-2,3,7,8-TCDF	M/M+2	0.88	0.87	0.88	0.88	0.88	0.88	0.65-0.89
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.70	1.70	1.67	1.70	1.69	1.66	1.32-1.78
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.67	1.70	1.69	1.71	1.68	1.65	1.32-1.78
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.56	0.56	0.55	0.55	0.55	0.56	0.43-0.59
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.57	0.56	0.55	0.56	0.55	0.56	0.43-0.59
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.57	0.54	0.55	0.55	0.55	0.56	0.43-0.59
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.57	0.57	0.56	0.56	0.57	0.56	0.43-0.59
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.43	0.44	0.44	0.43	0.43	0.44	0.37-0.51
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.43	0.43	0.43	0.42	0.44	0.44	0.37-0.51
13C-OCDF	M+2/M+4	0.99	0.98	0.96	0.98	0.98	0.99	0.76-1.02

Analyst: 

Date: 5/13/10

USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 12MAY10M Sam:4

Analysis Date: 12-MAY-10 16:08:51

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	9.80	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.70	1.32-1.78	y	48.3	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.30	1.05-1.43	y	50.2	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.30	1.05-1.43	y	48.5	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.28	1.05-1.43	y	49.6	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.11	0.88-1.20	y	50.6	43.0 - 58.0
OCDD	M+2/M+4	0.93	0.76-1.02	y	101	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.72	0.65-0.89	y	9.66	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	51.5	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	50.9	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	50.0	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	50.3	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	49.7	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.27	1.05-1.43	y	49.6	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.05	0.88-1.20	y	50.1	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	49.2	43.0 - 58.0
OCDF	M+2/M+4	0.87	0.76-1.02	y	98.8	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: 5/13/10

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 12MAY10M Sam:4

Analysis Date: 12-MAY-10 16:08:51

LABELED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.80	0.65-0.89	y	100.0	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.77	1.32-1.78	y	103	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	102	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	102	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	99.6	72.0 - 138
13C-OCDD	M+2/M+4	0.91	0.76-1.02	y	202	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.88	0.65-0.89	y	102	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.70	1.32-1.78	y	109	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.71	1.32-1.78	y	107	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.55	0.43-0.59	y	103	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.56	0.43-0.59	y	104	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.55	0.43-0.59	y	103	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.56	0.43-0.59	y	102	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.43	0.37-0.51	y	101	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.42	0.37-0.51	y	100	77.0 - 129
13C-OCDF	M+2/M+4	0.98	0.76-1.02	y	199	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.55	7.80 - 12.8

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

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

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

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

Analyst: Date: 5/13/10

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL3 Initial Calibration Date: 5/12/10
RT Window Data Filename: 12MAY10M Sam:4 Analysis Date: 12-MAY-10 Time: 16:08:51
DB-5 IS Data Filename: 12MAY10M Sam:4 Analysis Date: 12-MAY-10 Time: 16:08:51
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)	24:26	1,3,6,8-TCDF (F)	23:05
1,2,8,9-TCDD (L)	28:23	1,2,8,9-TCDF (L)	28:36
1,2,4,7,9-PeCDD (F)	30:17	1,3,4,6,8-PeCDF (F)	28:27
1,2,3,8,9-PeCDD (L)	33:50	1,2,3,8,9-PeCDF (L)	34:14
1,2,4,6,7,9-HxCDD (F)	36:08	1,2,3,4,6,8-HxCDF (F)	35:15
1,2,3,7,8,9-HxCDD (L)	39:11	1,2,3,7,8,9-HxCDF (L)	39:45
1,2,3,4,6,7,9-HpCDD (F)	42:47	1,2,3,4,6,7,8-HpCDF (F)	42:15
1,2,3,4,6,7,8-HpCDD (L)	44:10	1,2,3,4,7,8,9-HpCDF (L)	45:04

(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: 

Date: 5/13/10

Results: GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 99.5 WHO 1998 Tox: 123 WHO 2005 Tox: 112

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	3.10e+06	0.78 y	27:27	1.04	9.80	2.50	-	-	*		
1,2,3,7,8-PeCDD	1.38e+07	1.70 y	33:15	1.05	48.3	2.50	-	-	*		
1,2,3,4,7,8-HxCDD	1.26e+07	1.30 y	38:35	1.30	50.2	2.50	-	-	*		
1,2,3,6,7,8-HxCDD	1.26e+07	1.30 y	38:45	1.28	48.5	2.50	-	-	*		
1,2,3,7,8,9-HxCDD	1.23e+07	1.28 y	39:11	1.25	49.6	2.50	-	-	*		
1,2,3,4,6,7,8-HpCDD	1.26e+07	1.11 y	44:10	1.35	50.6	2.50	-	-	*		
OCDD	1.62e+07	0.93 y	49:41	1.25	101	2.50	-	-	*		
2,3,7,8-TCDF	6.83e+06	0.72 y	26:41	1.62	9.66	2.50	-	-	*		
1,2,3,7,8-PeCDF	2.04e+07	1.54 y	31:31	0.92	51.5	2.50	-	-	*		
2,3,4,7,8-PeCDF	1.91e+07	1.55 y	32:50	0.94	50.9	2.50	-	-	*		
1,2,3,4,7,8-HxCDF	1.67e+07	1.29 y	37:11	0.93	50.0	2.50	-	-	*		
1,2,3,6,7,8-HxCDF	1.89e+07	1.30 y	37:24	0.84	50.3	2.50	-	-	*		
2,3,4,6,7,8-HxCDF	1.67e+07	1.30 y	38:19	0.90	49.7	2.50	-	-	*		
1,2,3,7,8,9-HxCDF	1.49e+07	1.27 y	39:45	0.98	49.6	2.50	-	-	*		
1,2,3,4,6,7,8-HpCDF	1.54e+07	1.05 y	42:15	1.38	50.1	2.50	-	-	*		
1,2,3,4,7,8,9-HpCDF	1.31e+07	1.05 y	45:04	1.62	49.2	2.50	-	-	*		
OCDF	1.73e+07	0.87 y	50:04	0.74	98.8	2.50	-	-	*		
13C-2,3,7,8-TCDD	3.06e+07	0.80 y	27:25	0.93	100.0					100.0	
13C-1,2,3,7,8-PeCDD	2.73e+07	1.77 y	33:13	0.81	103					103	
13C-1,2,3,4,7,8-HxCDD	1.94e+07	1.29 y	38:33	0.95	102					102	
13C-1,2,3,6,7,8-HxCDD	2.04e+07	1.28 y	38:43	1.00	102					102	
13C-1,2,3,4,6,7,8-HpCDD	1.84e+07	1.06 y	44:09	0.92	99.6					99.6	
13C-OCDD	2.56e+07	0.91 y	49:41	0.63	202					101	
13C-2,3,7,8-TCDF	4.37e+07	0.88 y	26:40	0.87	102					102	
13C-1,2,3,7,8-PeCDF	4.32e+07	1.70 y	31:29	0.81	109					109	
13C-2,3,4,7,8-PeCDF	3.97e+07	1.71 y	32:49	0.75	107					107	
13C-1,2,3,4,7,8-HxCDF	3.60e+07	0.55 y	37:10	1.74	103					103	
13C-1,2,3,6,7,8-HxCDF	4.50e+07	0.56 y	37:22	2.17	104					104	
13C-2,3,4,6,7,8-HxCDF	3.76e+07	0.55 y	38:19	1.82	103					103	
13C-1,2,3,7,8,9-HxCDF	3.05e+07	0.56 y	39:45	1.49	102					102	
13C-1,2,3,4,6,7,8-HpCDF	2.22e+07	0.43 y	42:14	1.10	101					101	
13C-1,2,3,4,7,8,9-HpCDF	1.64e+07	0.42 y	45:03	0.81	100					100	
13C-OCDF	4.74e+07	0.98 y	50:02	1.19	199					99.7	
37Cl-2,3,7,8-TCDD	2.93e+06		27:27	0.93	9.55					95.5	
13C-1,2,3,4-TCDD	3.30e+07	0.81 y	26:50	-	97.3						
13C-1,2,3,4-TCDF	4.93e+07	0.87 y	25:34	-	92.5						
13C-1,2,3,7,8,9-HxCDD	2.00e+07	1.28 y	39:10	-	92.9						
Total Tetra-Dioxins	1.68e+07		23:16	1.04	53.2	2.50	-	-	*		19
Total Penta-Dioxins	3.09e+07		30:17	1.05	108	2.50	-	-	*		9
Total Hexa-Dioxins	4.33e+07		36:08	1.27	171	2.50	-	-	*		13
Total Hepta-Dioxins	2.73e+07		42:47	1.35	110	2.50	-	-	*		10
Total Tetra-Furans	2.92e+07		23:05	1.62	41.3	2.50	-	-	*		21
1st Fn. Tot Penta-Furans	2.33e+07		28:27	0.93	60.5	2.50	-	-	*	PeCDF	1
Total Penta-Furans	5.64e+07		30:15	0.93	146	2.50	-	-	*	207	9
Total Hexa-Furans	7.98e+07		35:15	0.90	237	2.50	-	-	*		13
Total Hepta-Furans	2.91e+07		42:15	1.48	102	2.50	-	-	*		5

Analyst:  Date: 5/13/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:12MAY10M

Instrument: FAL3

GC: DB5

Experiment:PCDD

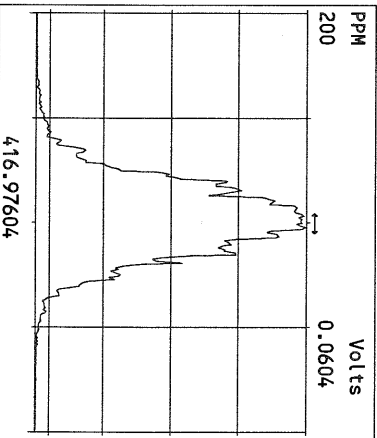
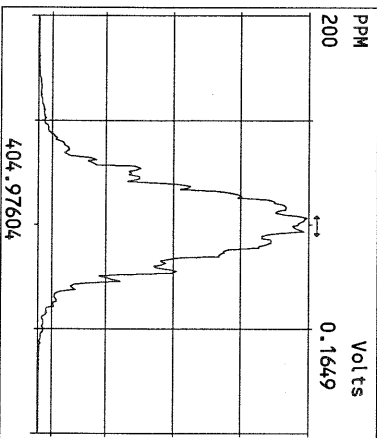
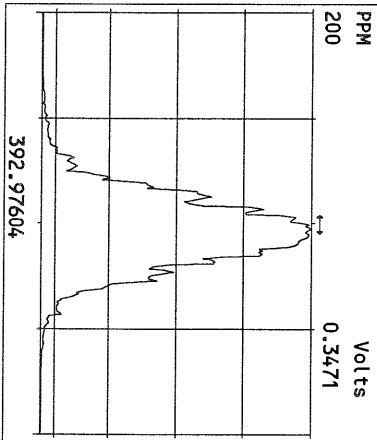
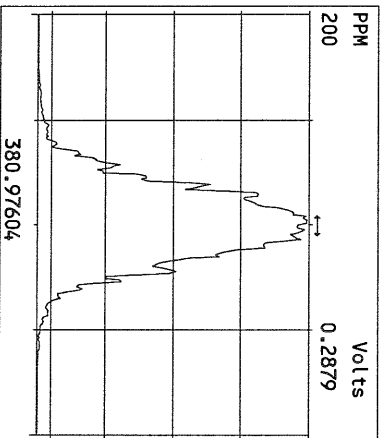
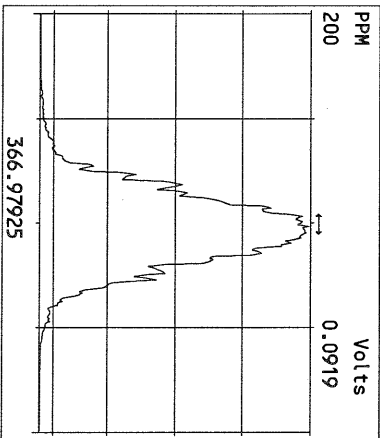
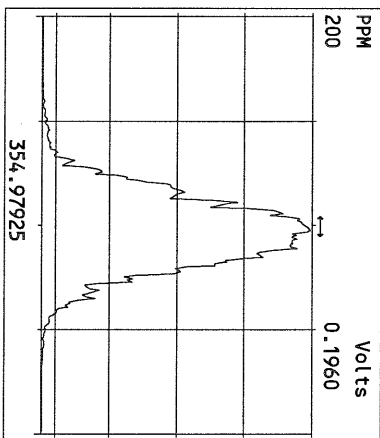
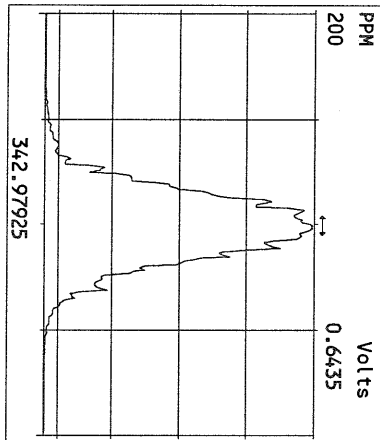
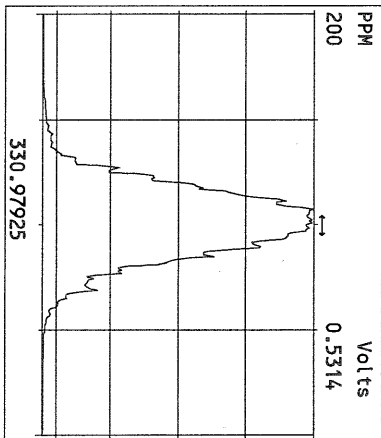
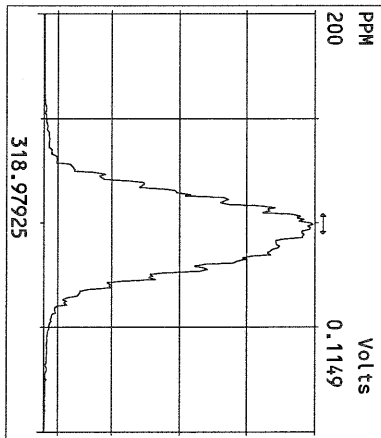
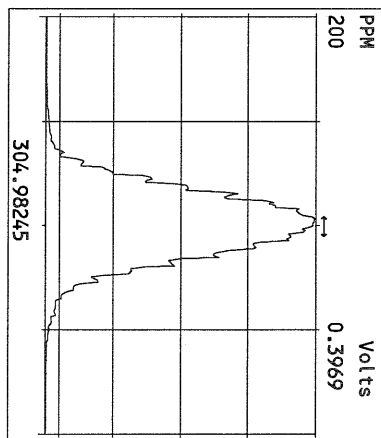
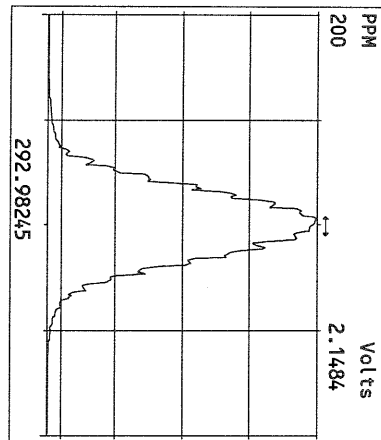
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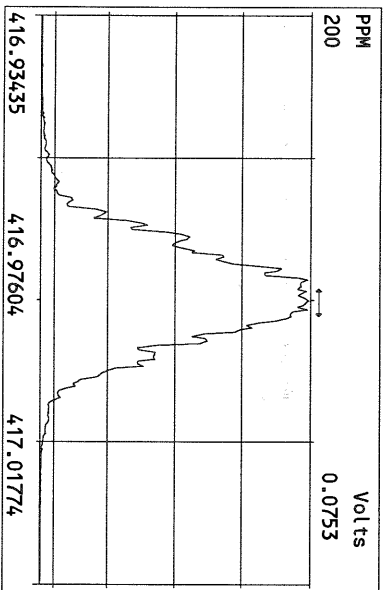
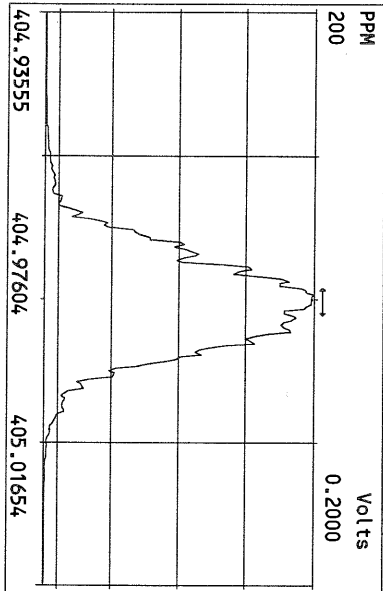
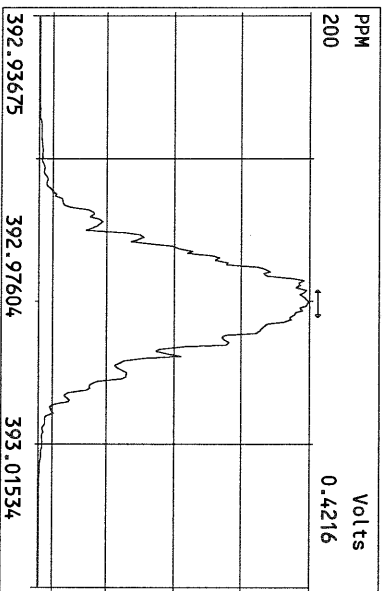
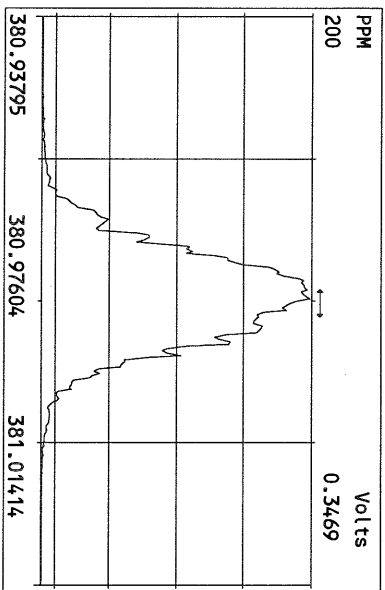
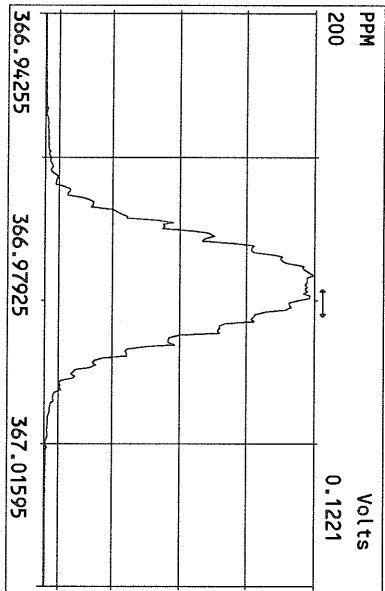
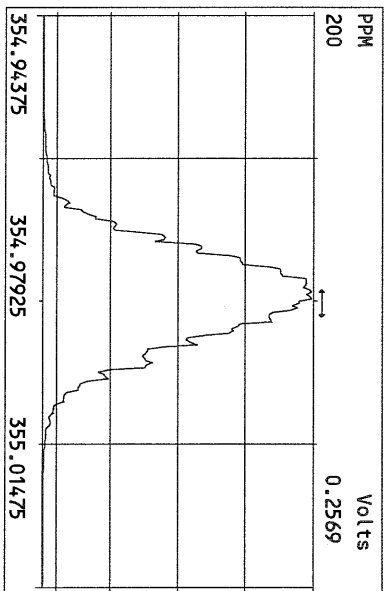
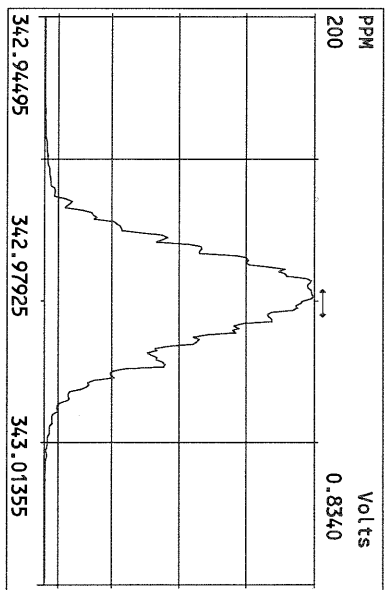
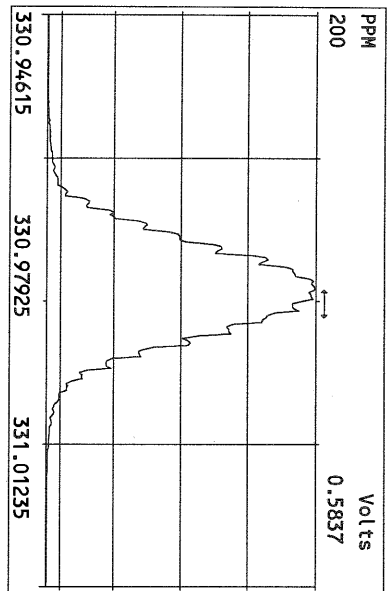


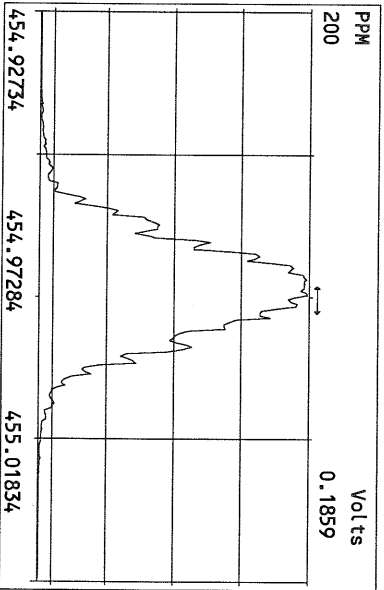
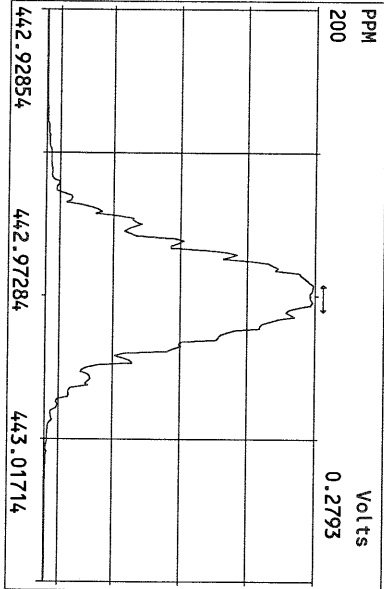
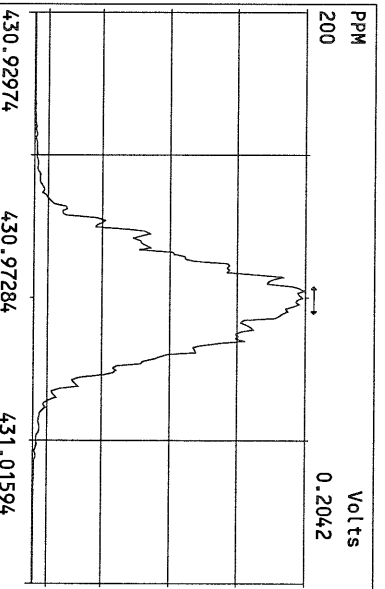
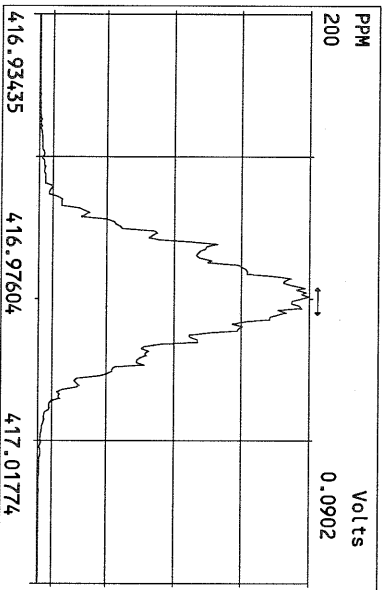
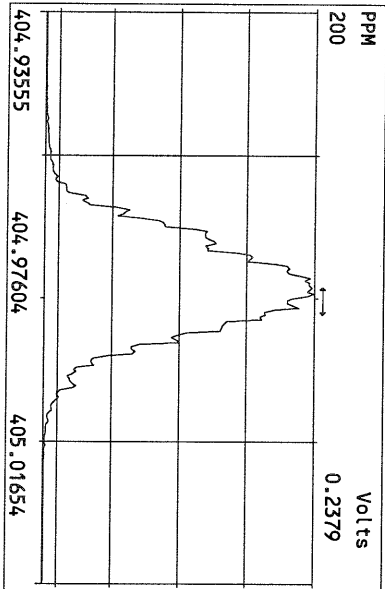
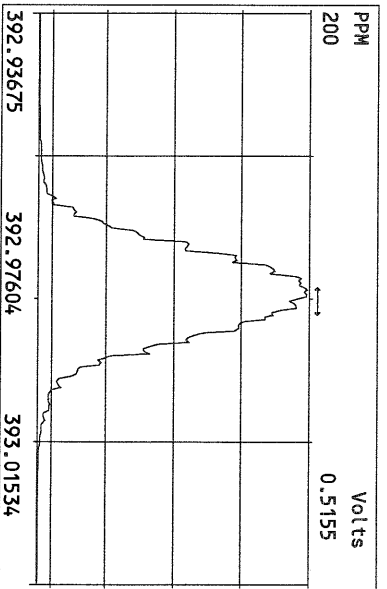
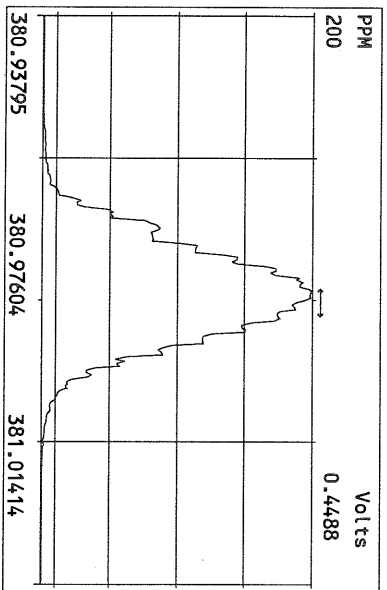
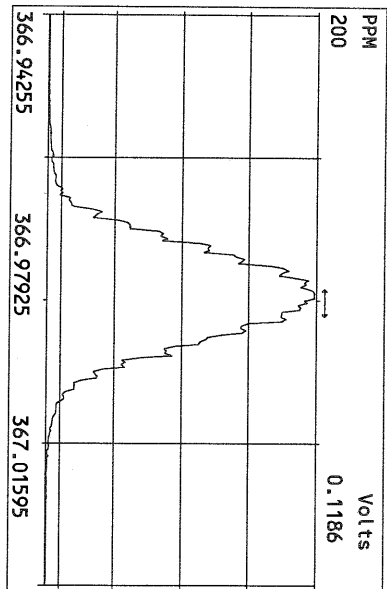
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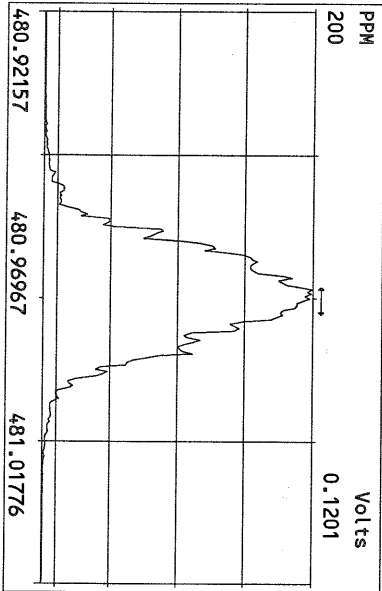
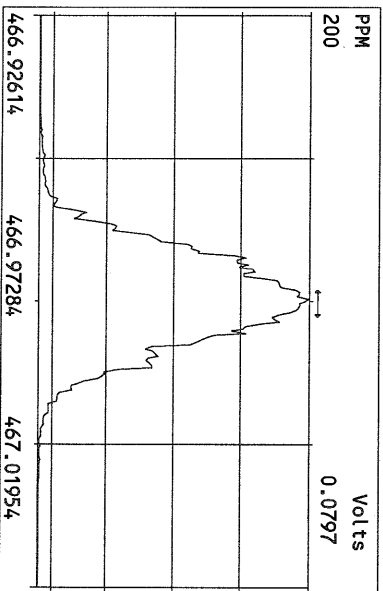
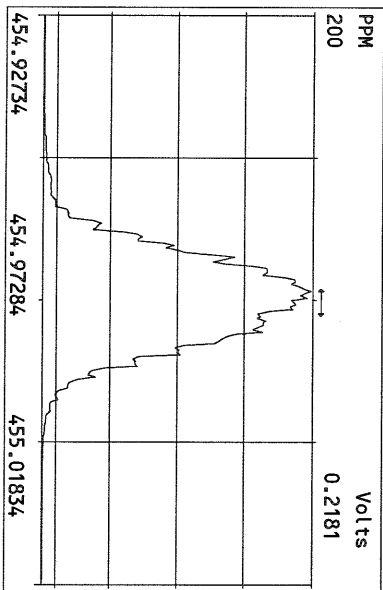
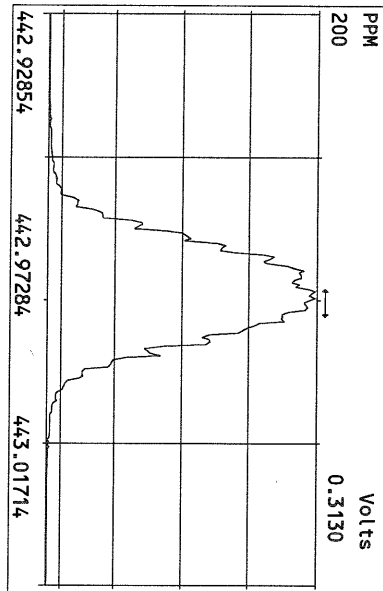
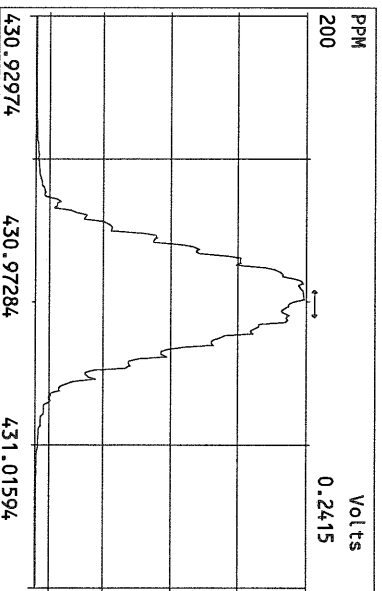
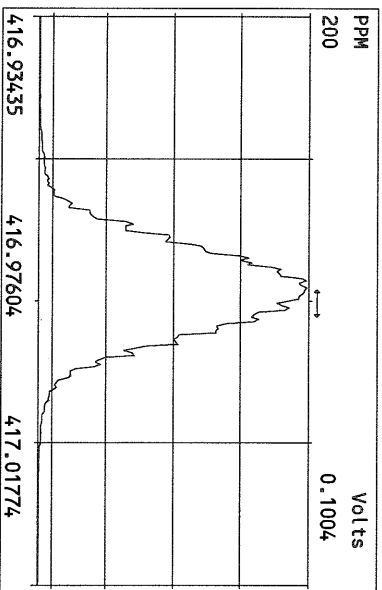
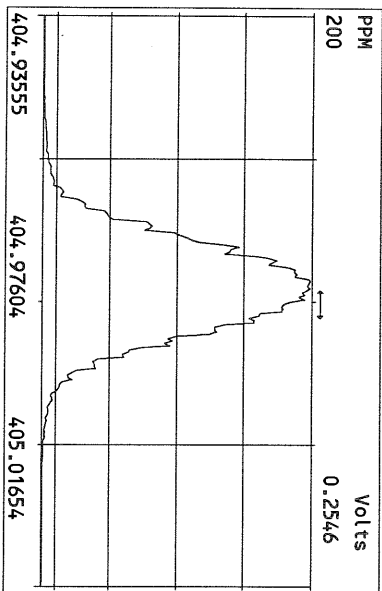
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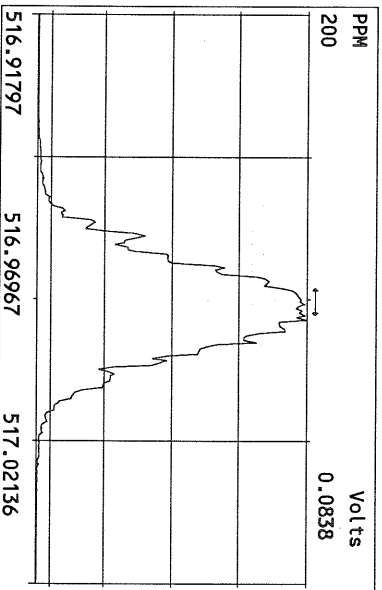
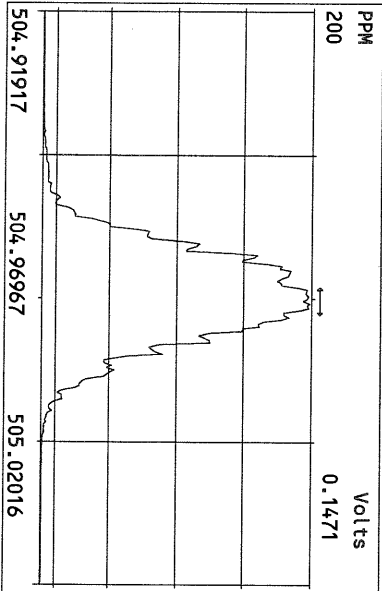
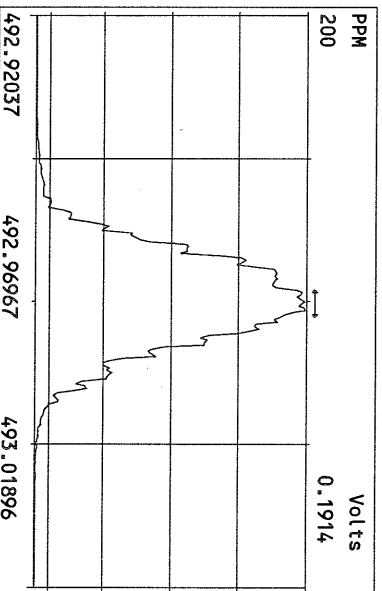
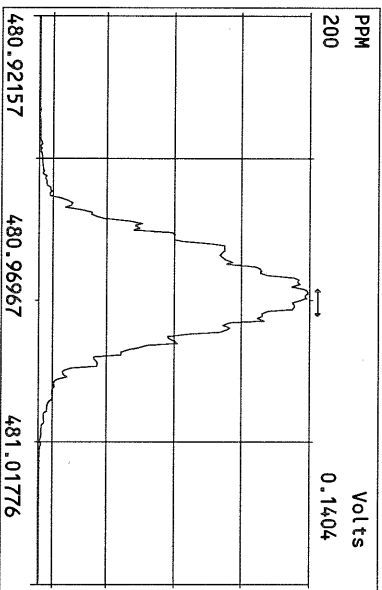
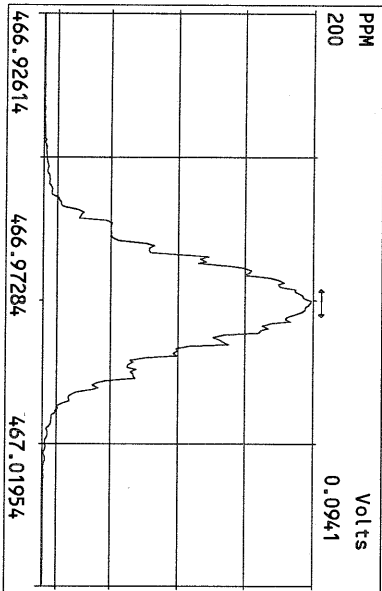
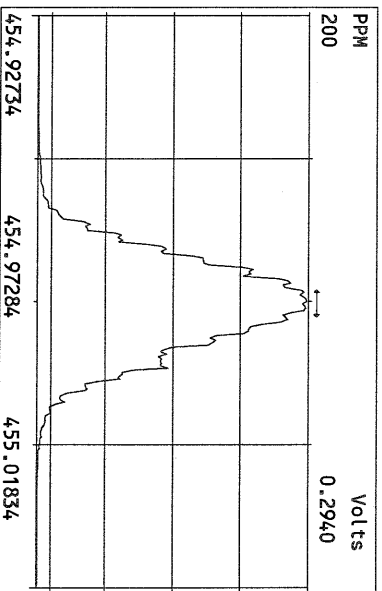
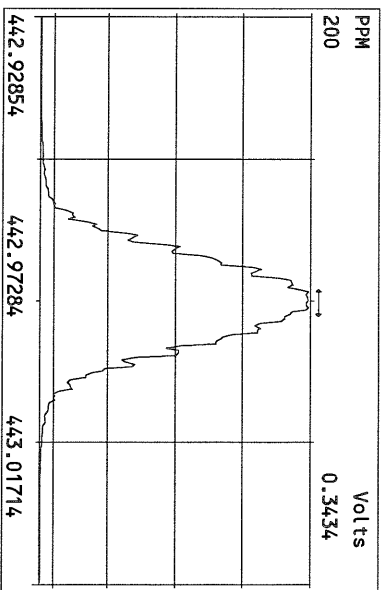
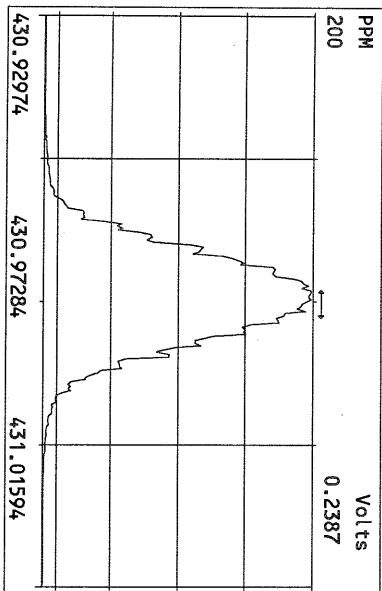
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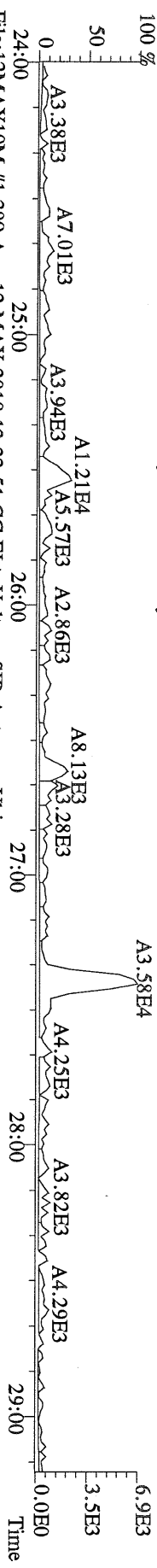




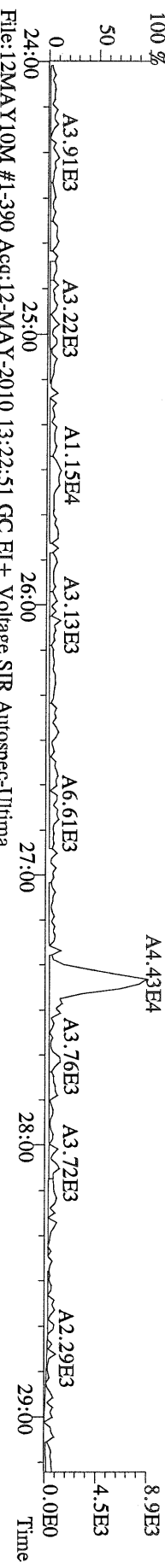




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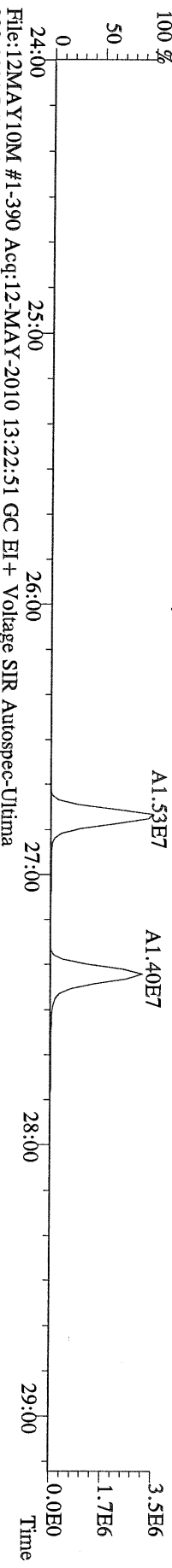
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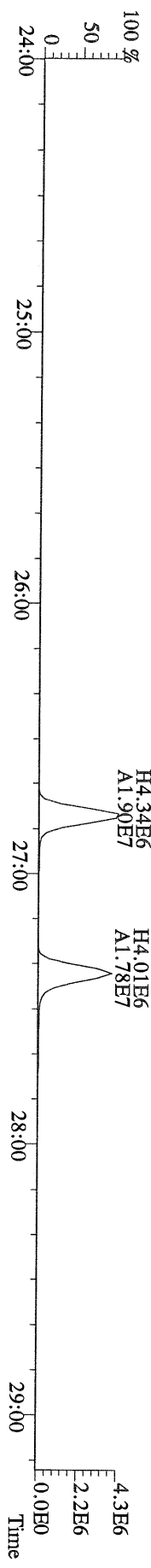
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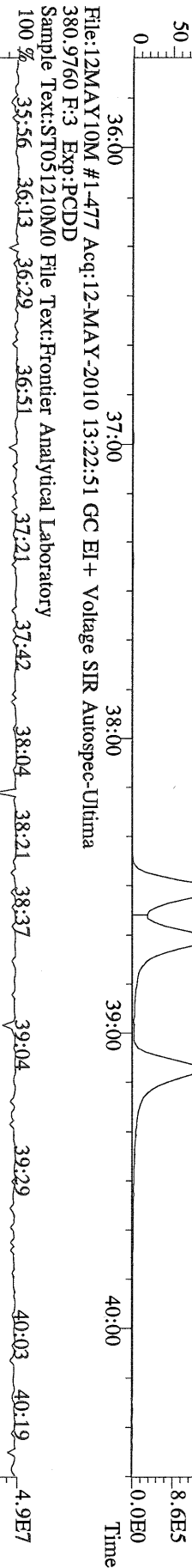
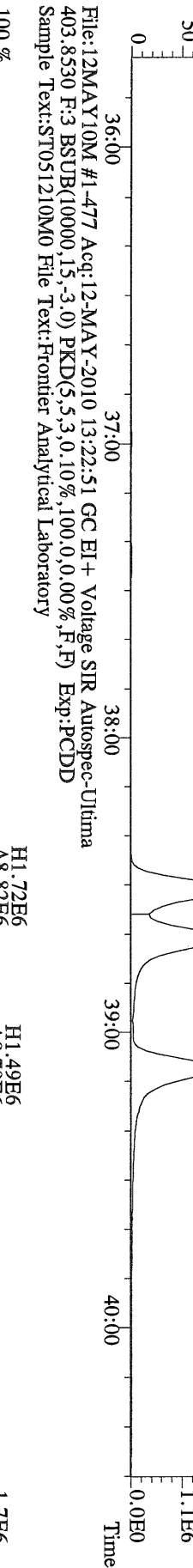
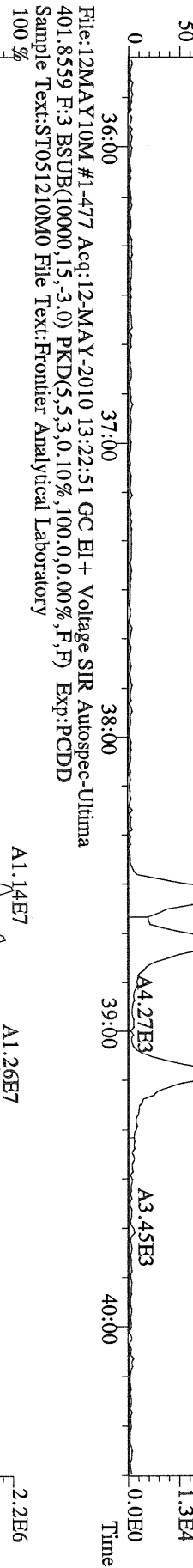
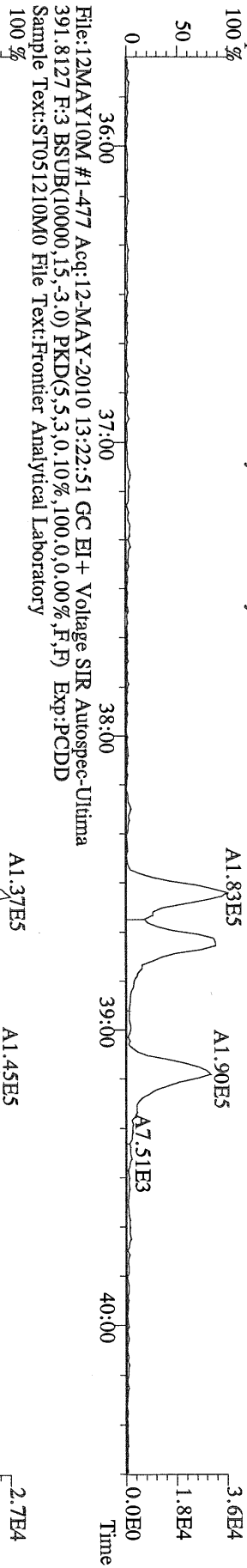
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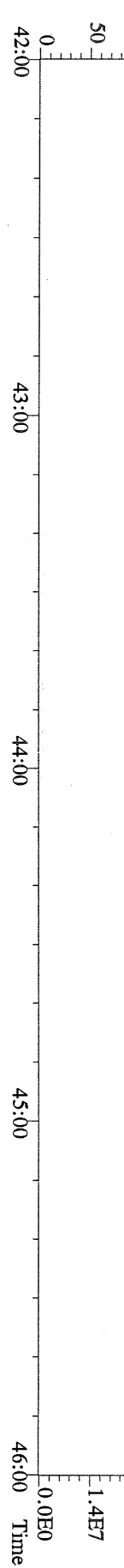
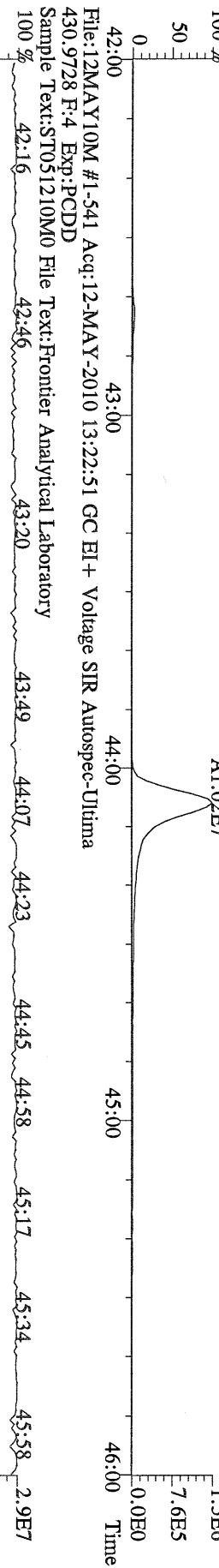
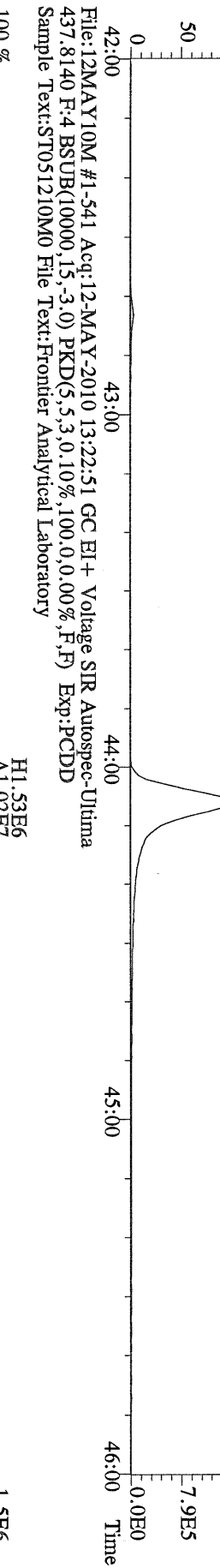
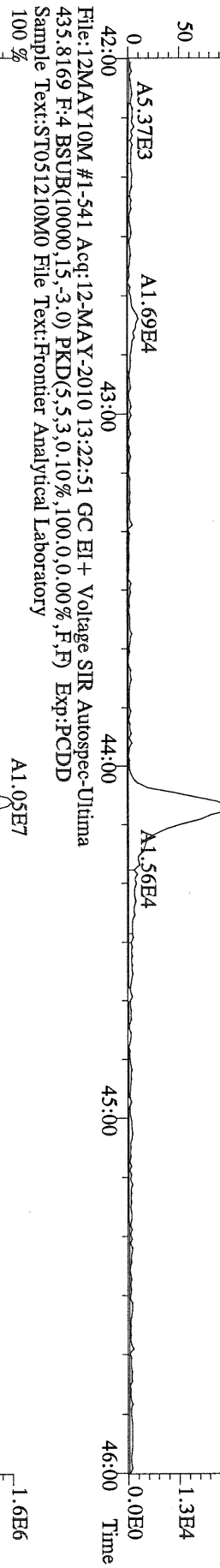
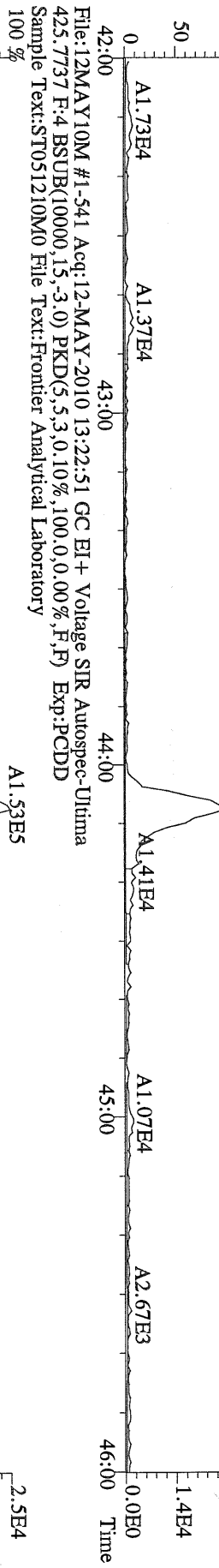
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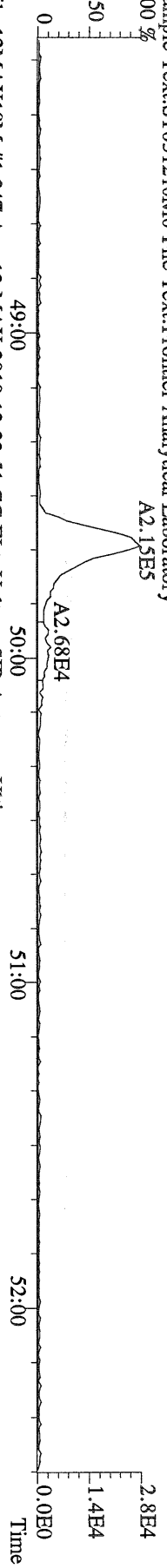
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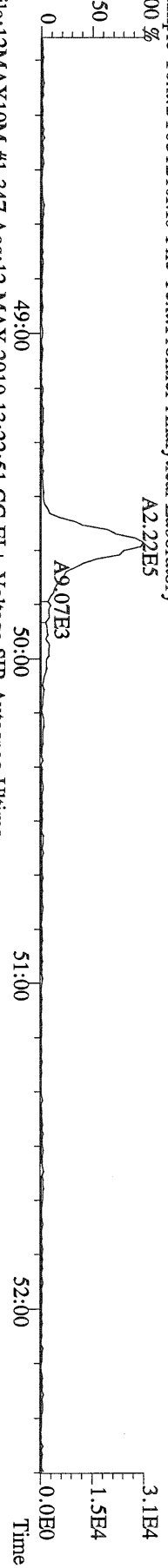
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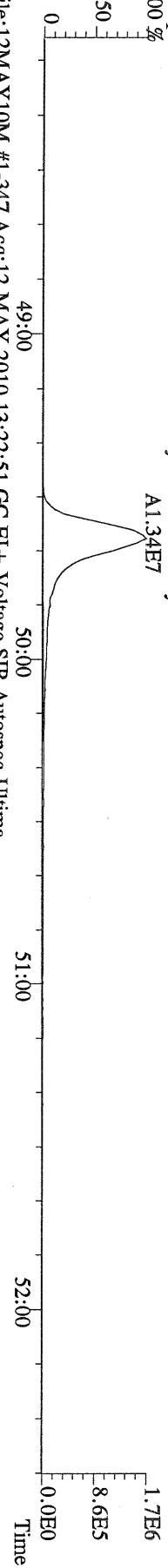
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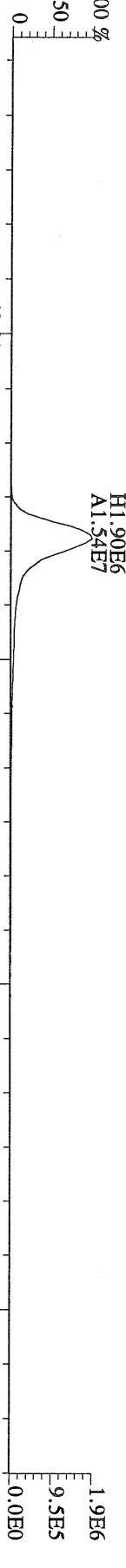
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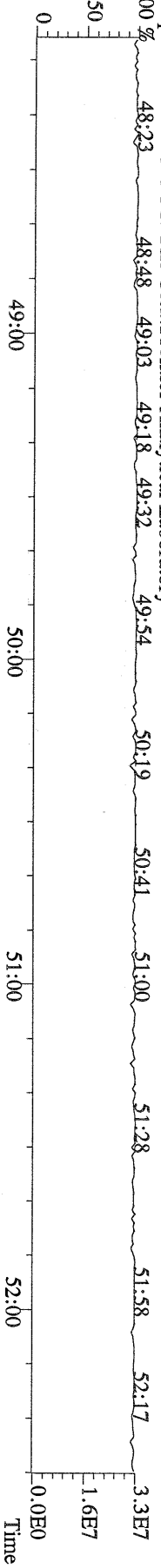
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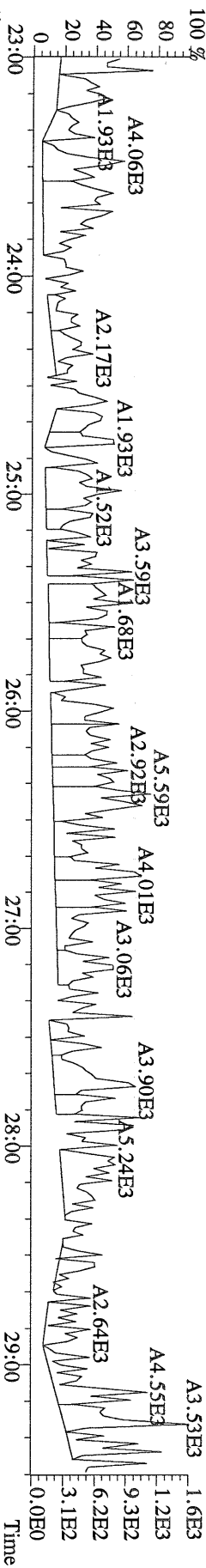
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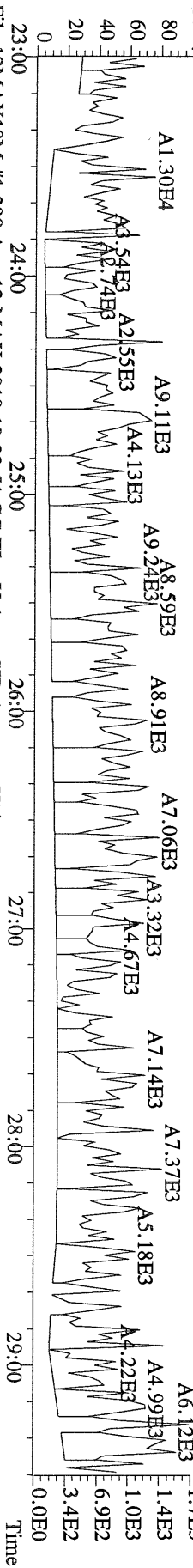
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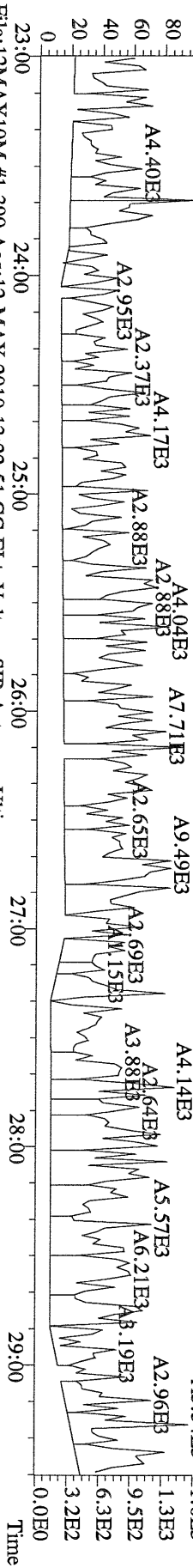
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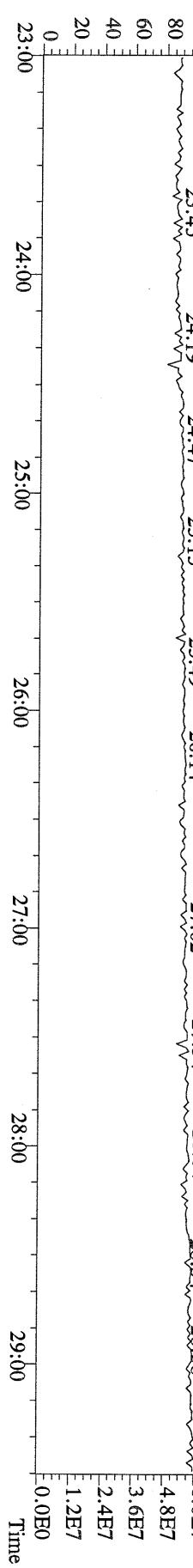
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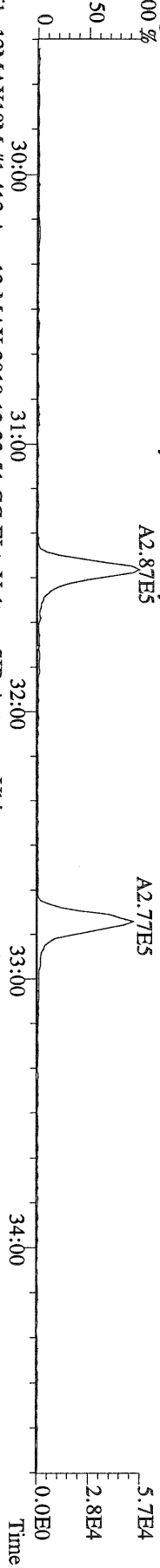
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 409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M0 File Text:Frontier Analytical Laboratory



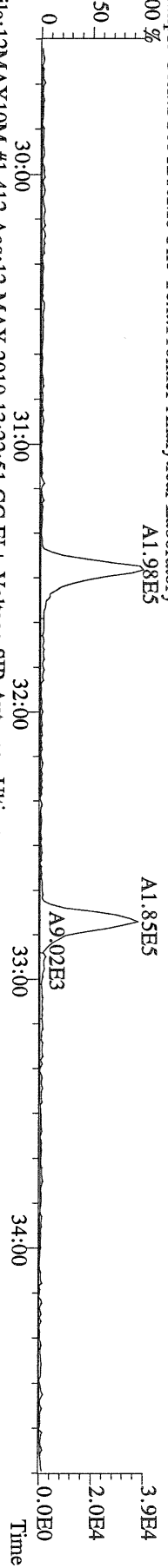
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 330.9792 Exp:PCDD
 Sample Text:ST051210M0 File Text:Frontier Analytical Laboratory



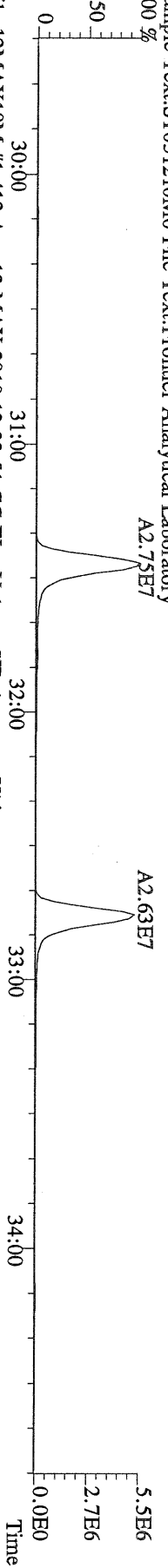
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 339.8597 F-2:BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M0 File Text:Frontier Analytical Laboratory



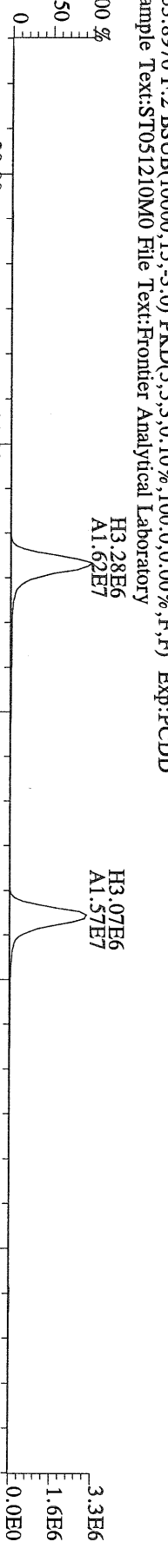
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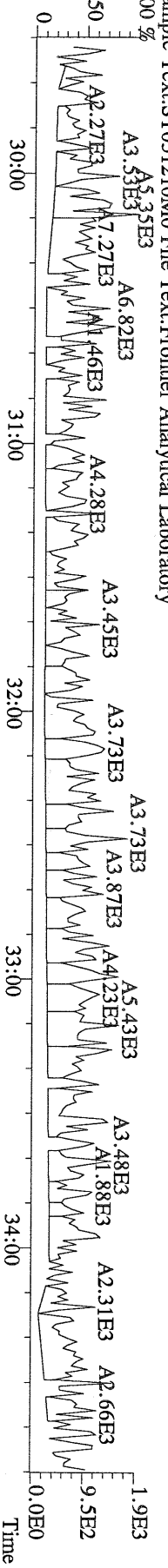
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 351.9000 F-2:BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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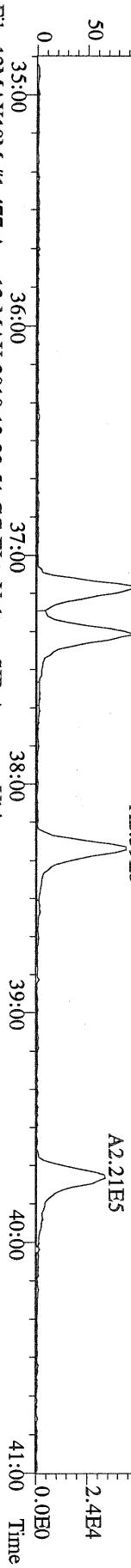
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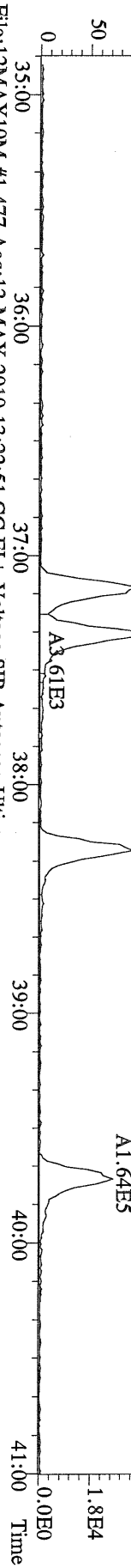
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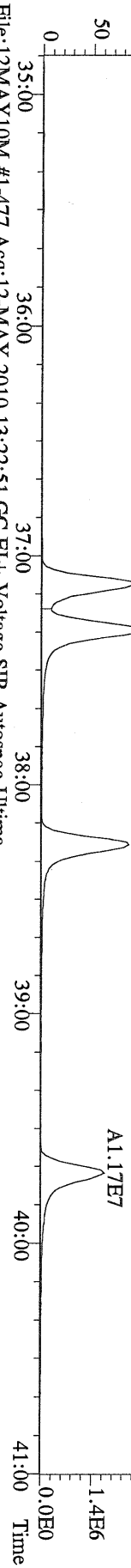
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Sample Text:ST051210M0 File Text:Frontier Analytical Laboratory



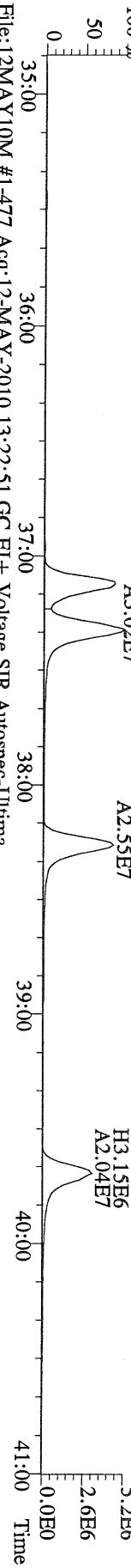
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375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M0 File Text:Frontier Analytical Laboratory



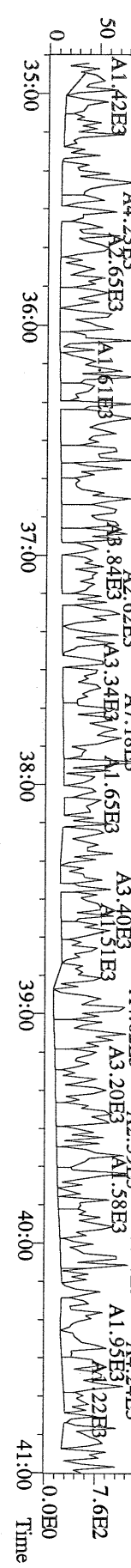
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383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M0 File Text:Frontier Analytical Laboratory



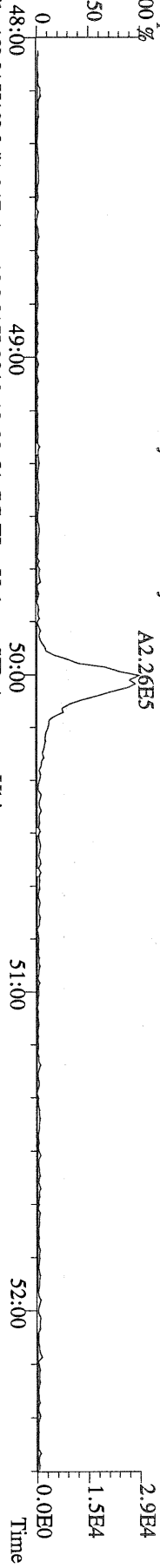
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Sample Text:ST051210M0 File Text:Frontier Analytical Laboratory



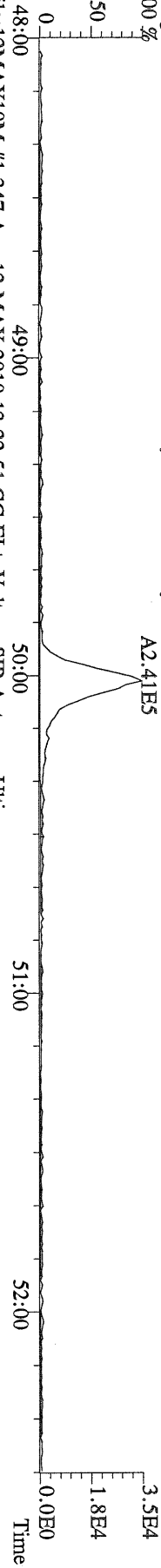
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Sample Text:ST051210M0 File Text:Frontier Analytical Laboratory



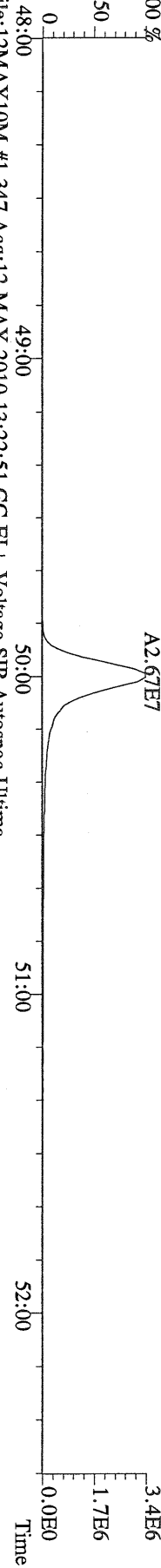
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 441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M0 File Text:Frontier Analytical Laboratory
 100 %



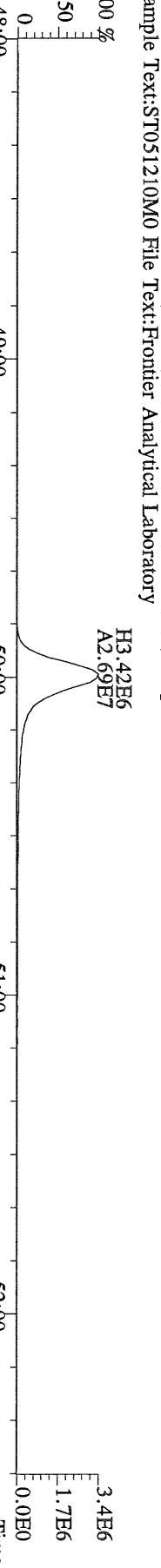
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 443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M0 File Text:Frontier Analytical Laboratory
 100 %



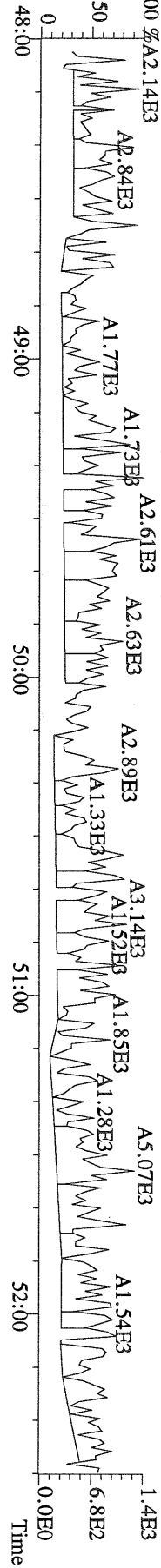
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 453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M0 File Text:Frontier Analytical Laboratory
 100 %



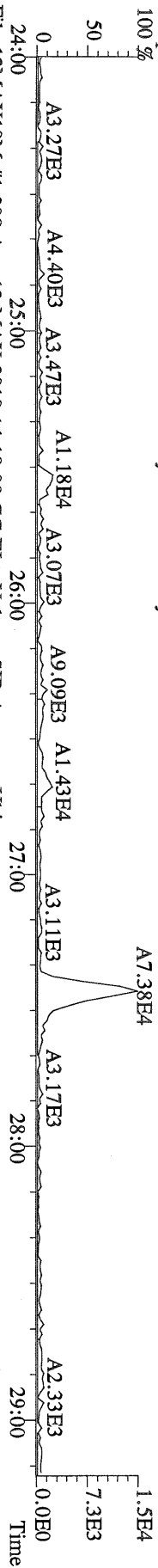
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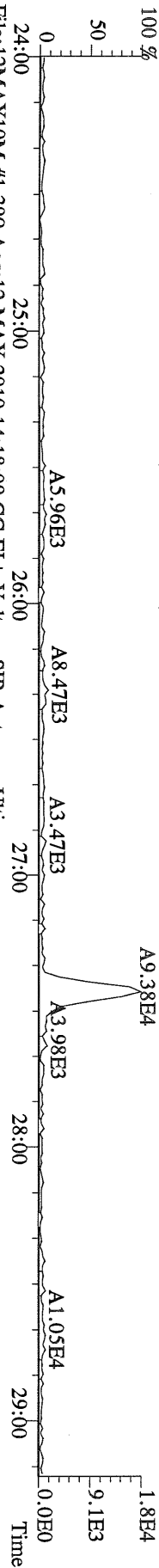
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 513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M0 File Text:Frontier Analytical Laboratory
 100 %



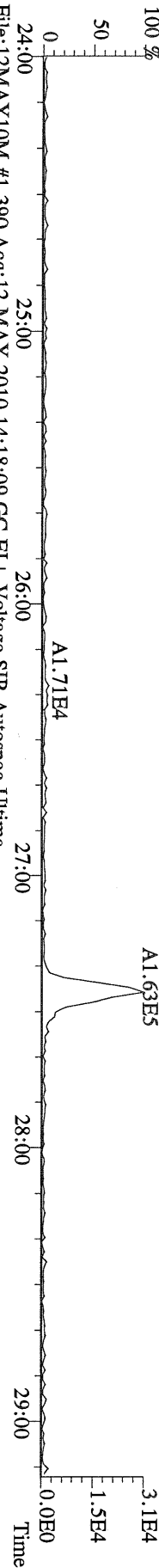
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319.8965 S:2.BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



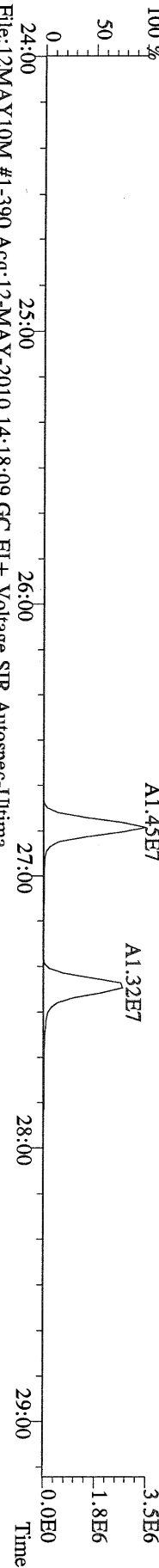
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Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



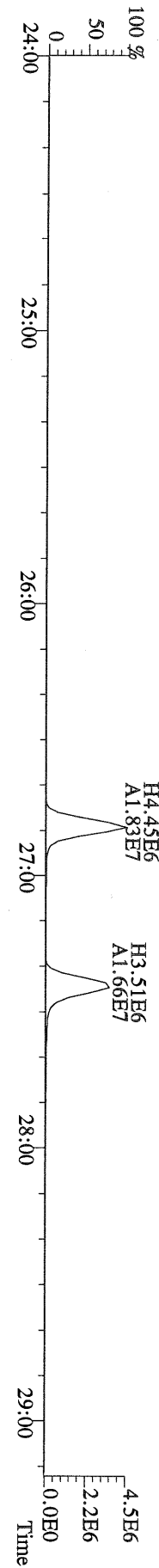
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327.8847 S:2.BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



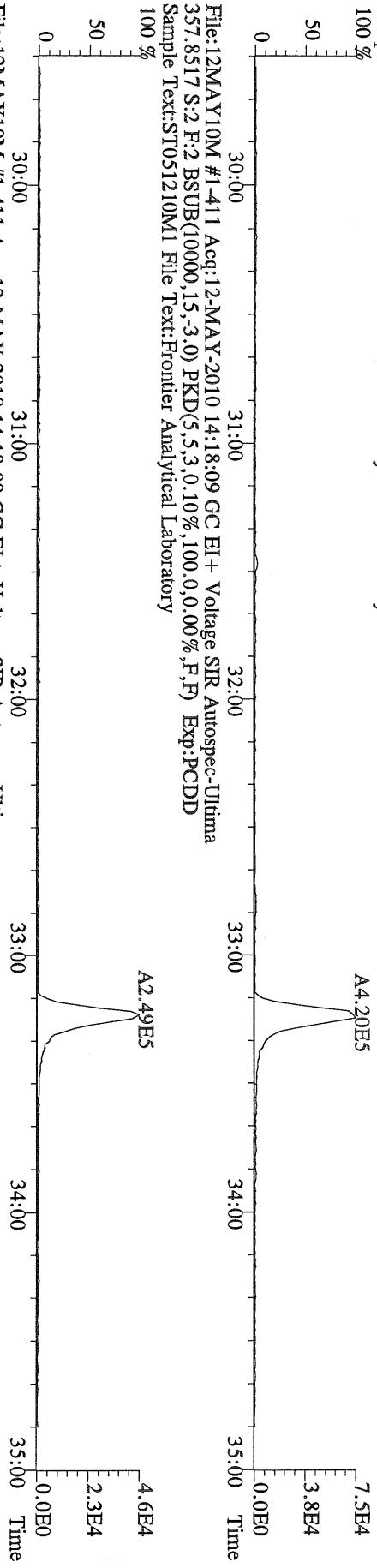
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331.9368 S:2.BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



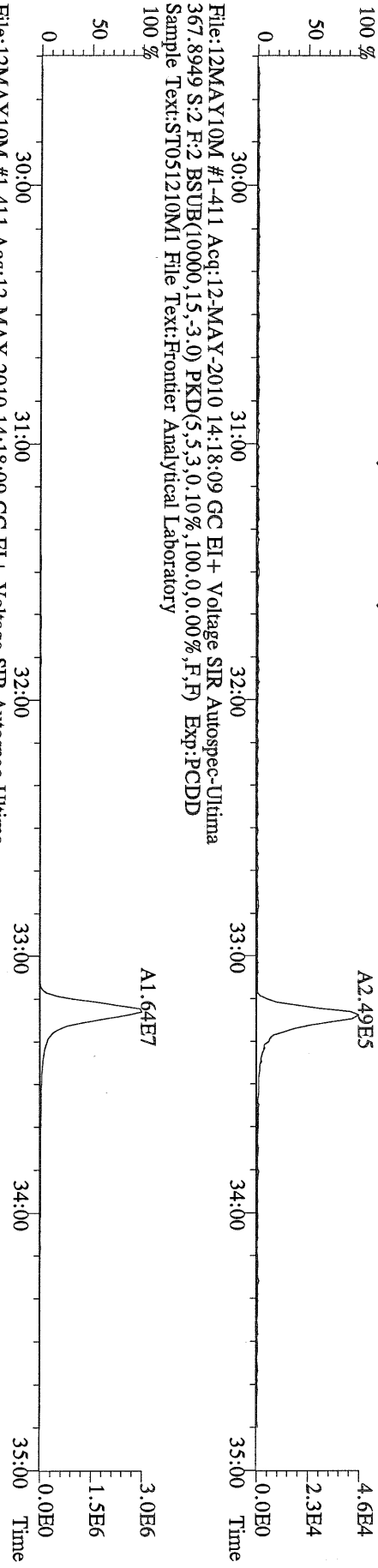
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333.9339 S:2.BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



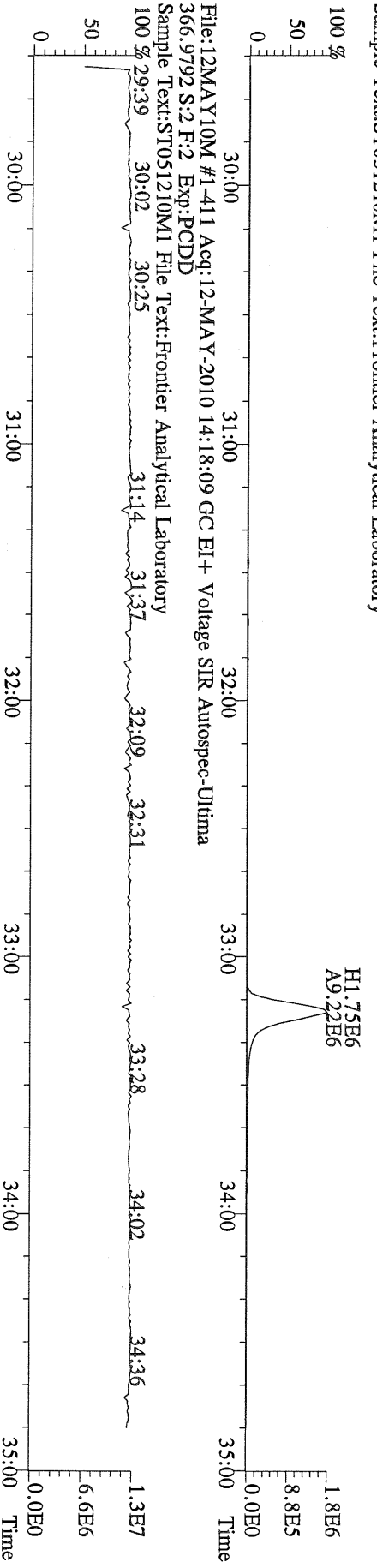
File:12MAY10M #1-411 Acq:12-MAY-2010 14:18:09 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:2 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
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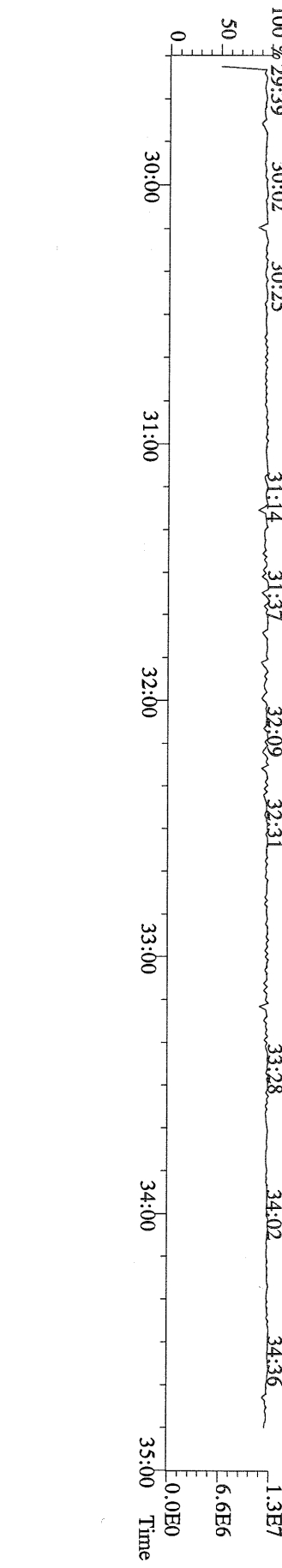
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357.8517 S:2 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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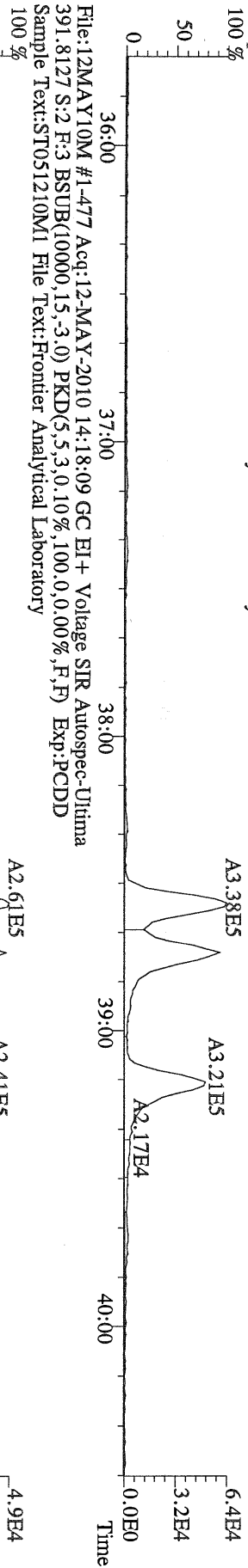
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367.8949 S:2 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
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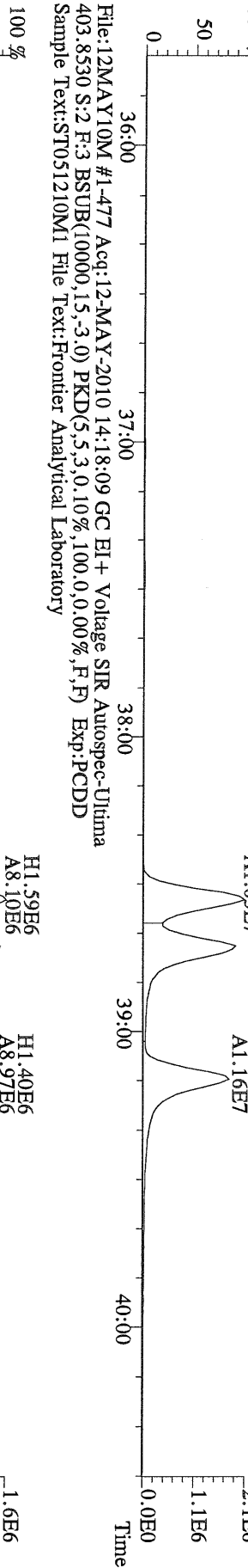
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369.8919 S:2 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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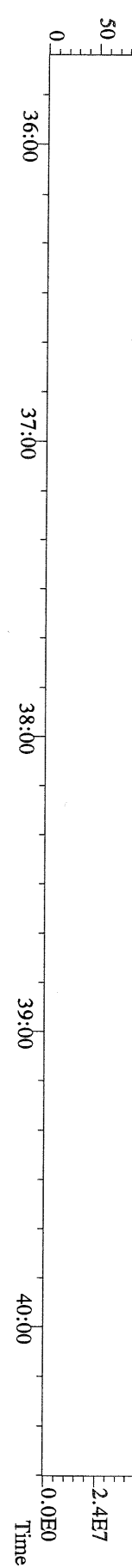
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389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



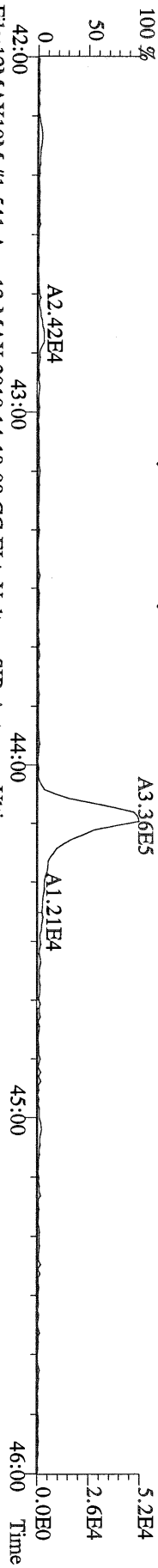
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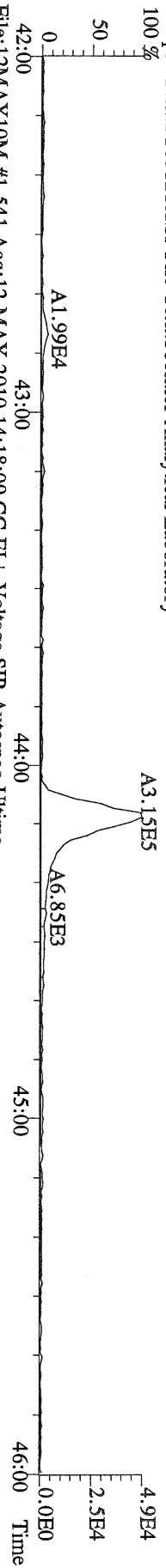
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380.9760 S:2 F:3 Exp:PCDD
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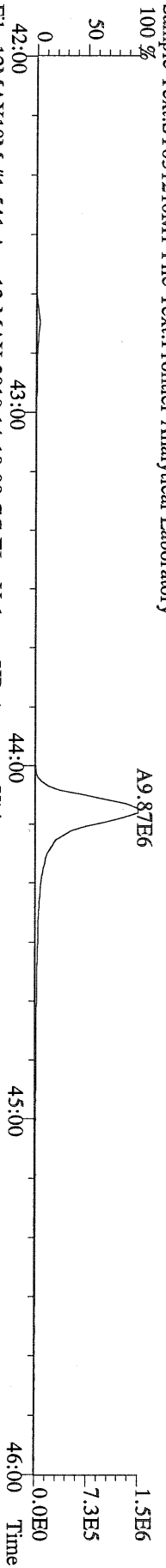
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423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



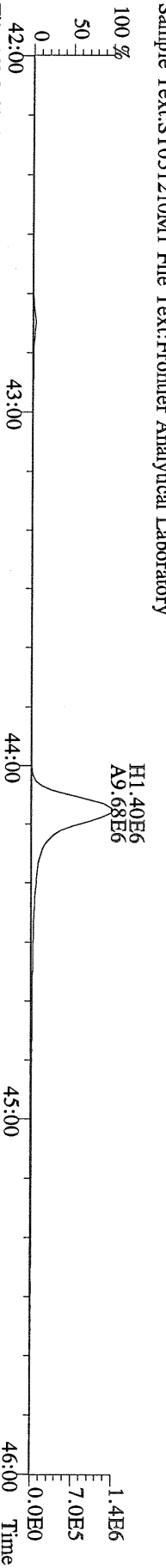
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425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



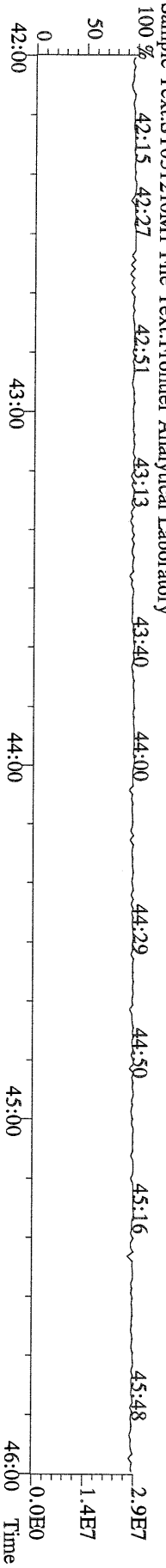
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435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



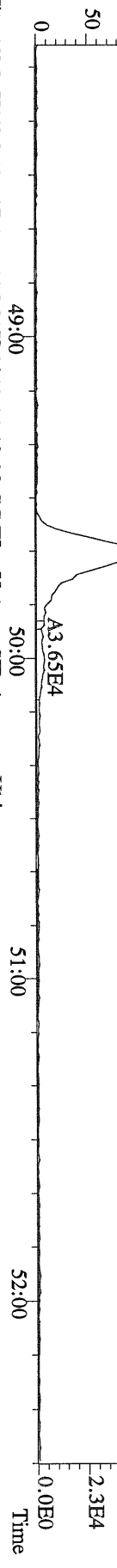
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Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



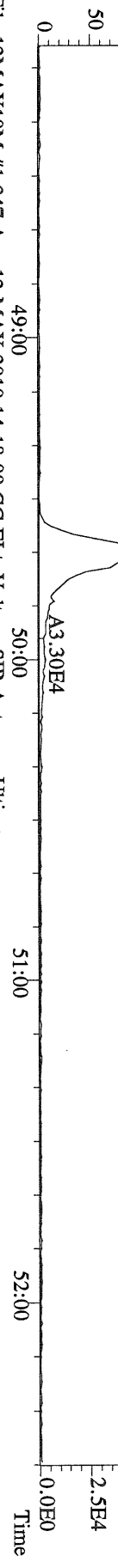
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430.9728 S:2 F:4 Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



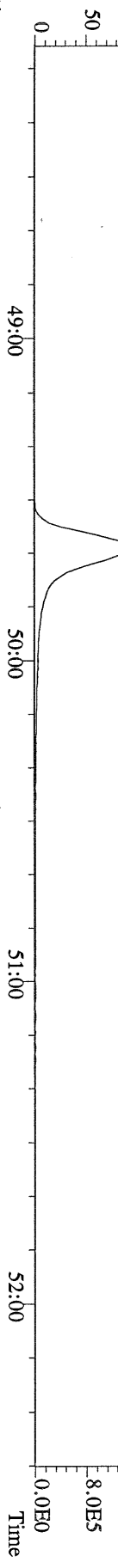
File:12MAY10M #1-347 Acq:12-MAY-2010 14:18:09 GC EI + Voltage SIR Autospec-Ultima
 457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
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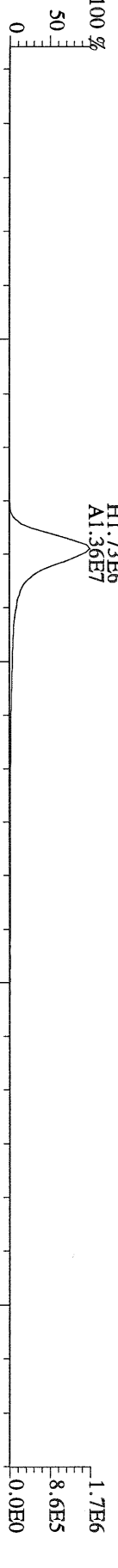
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 459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
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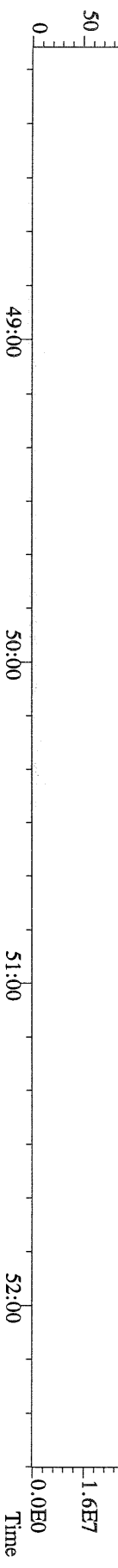
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 469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
 100 %



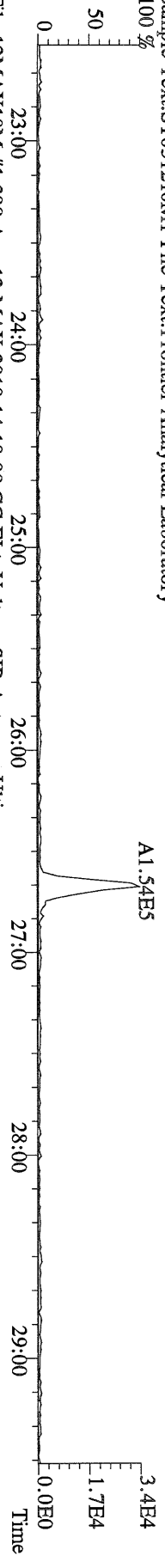
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 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
 100 %



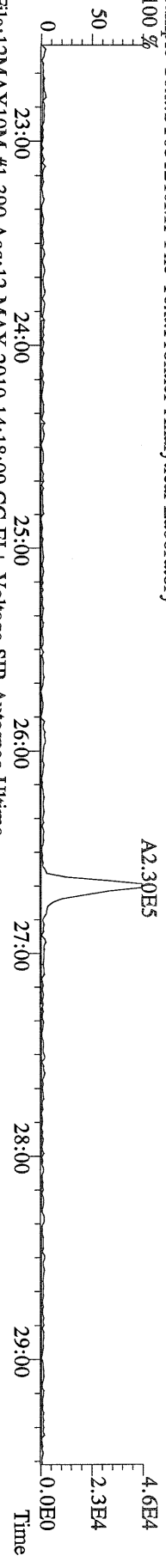
File:12MAY10M #1-347 Acq:12-MAY-2010 14:18:09 GC EI + Voltage SIR Autospec-Ultima
 454.9728 S:2 F:5 Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
 100 %



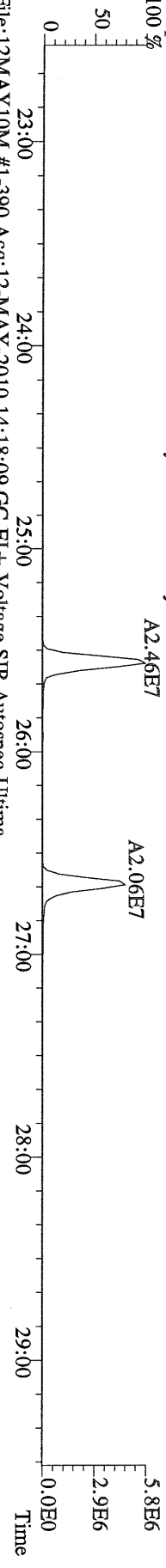
File:12MAY10M #1-390 Acq:12-MAY-2010 14:18:09 GC EI + Voltage SIR Autospec-Ultima
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



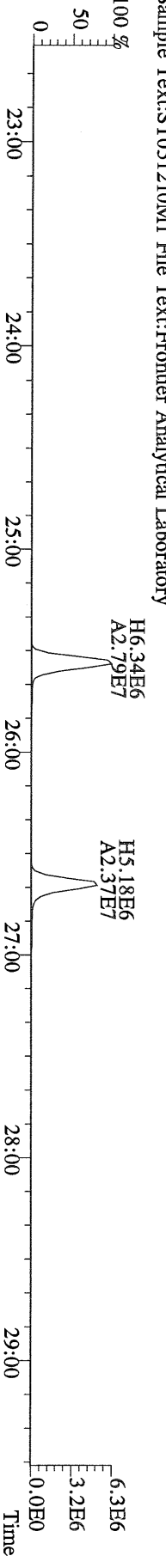
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305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



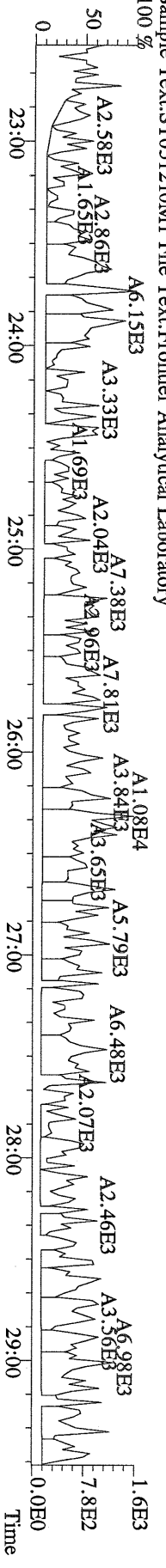
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315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



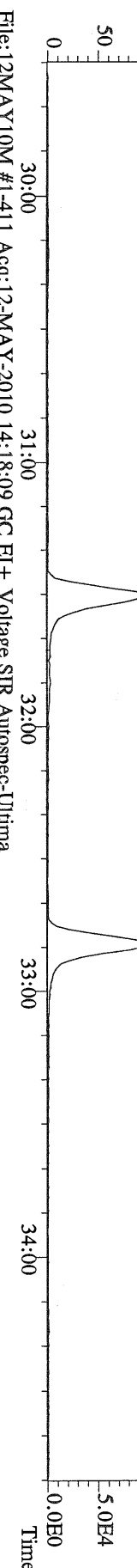
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317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



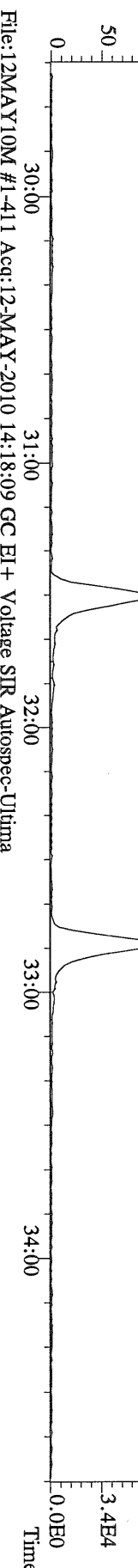
File:12MAY10M #1-390 Acq:12-MAY-2010 14:18:09 GC EI + Voltage SIR Autospec-Ultima
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



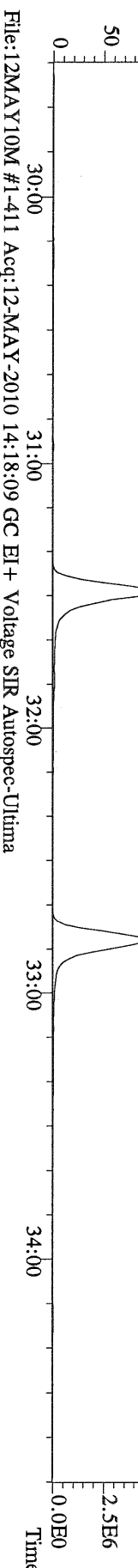
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 339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



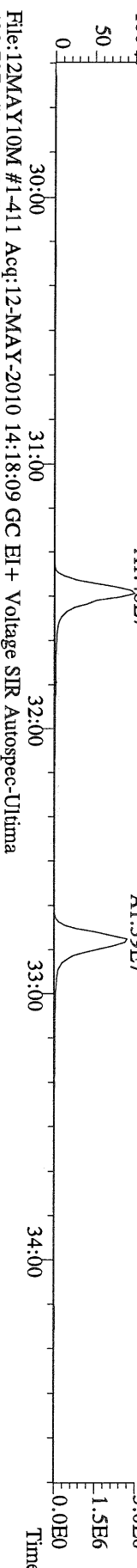
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 341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



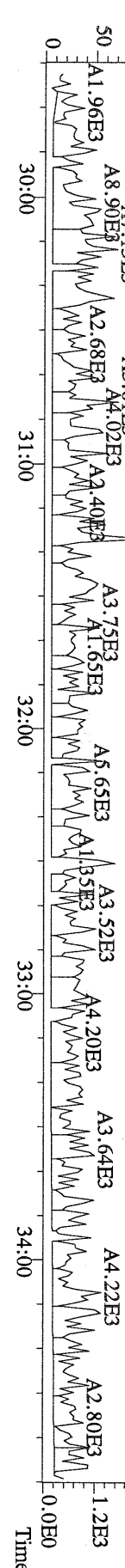
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 351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



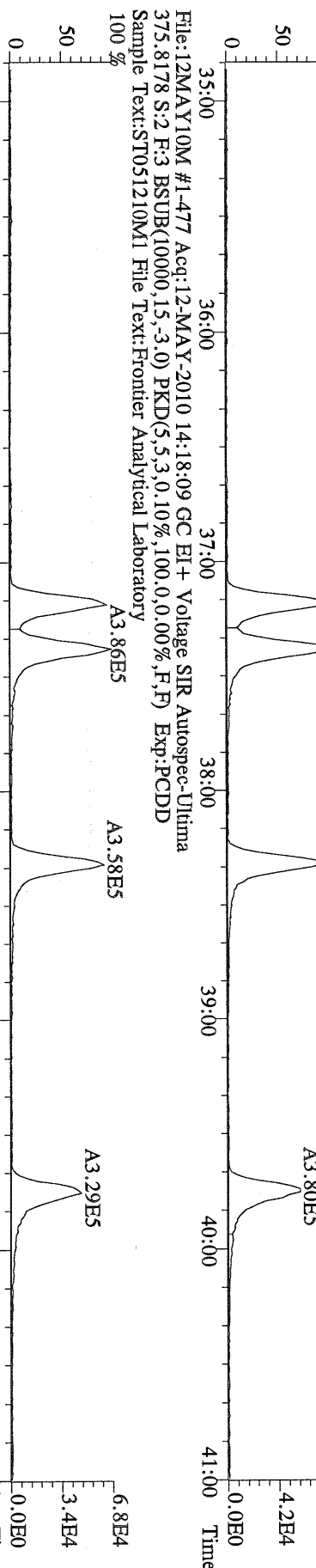
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 353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



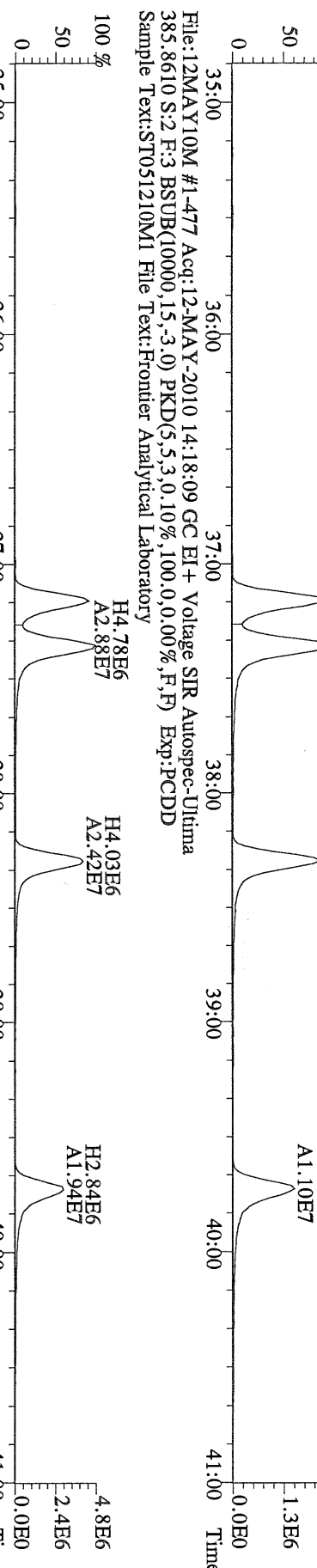
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 409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



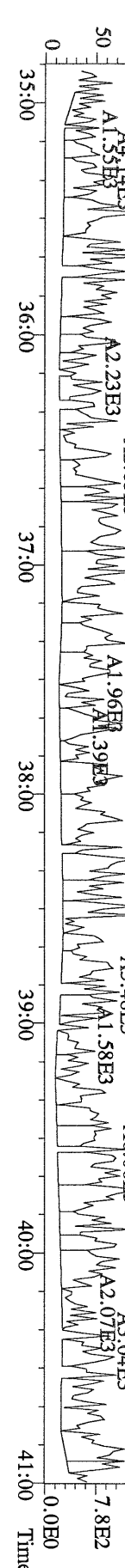
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373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



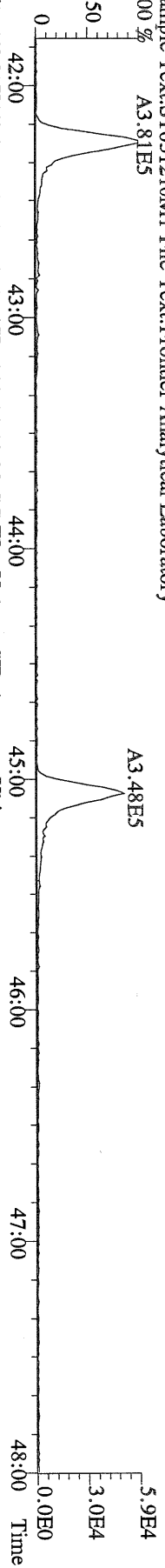
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383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



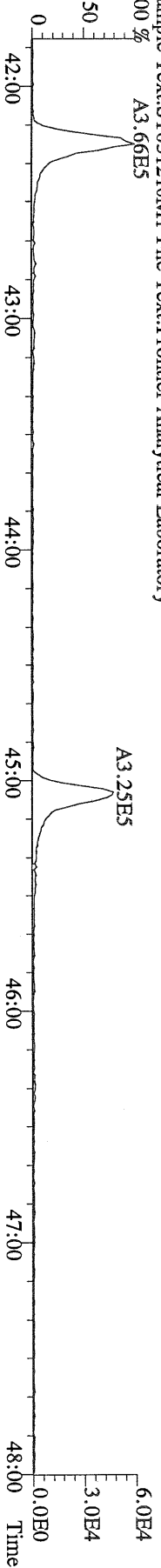
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445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



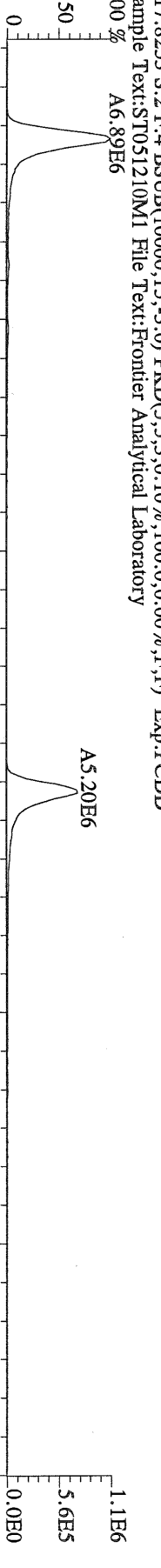
File:12MAY10M #1-541 Acq:12-MAY-2010 14:18:09 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
 100 % A3.81E5



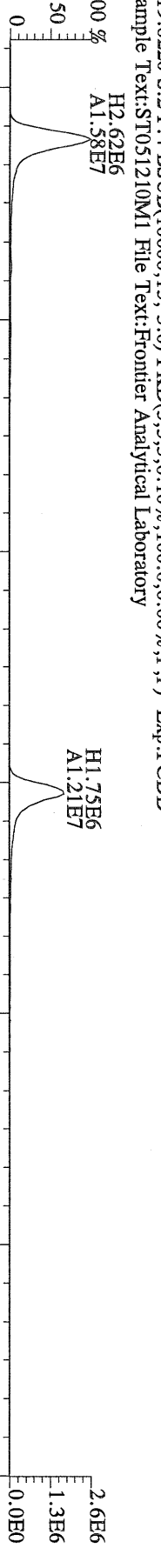
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 409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
 100 % A3.66E5



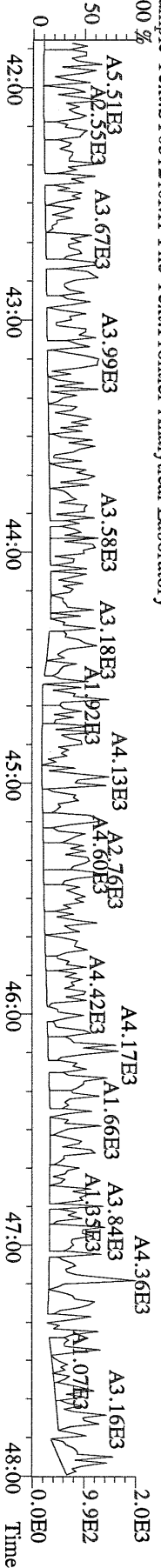
File:12MAY10M #1-541 Acq:12-MAY-2010 14:18:09 GC EI+ Voltage SIR Autospec-Ultima
 417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
 100 % A6.89E6



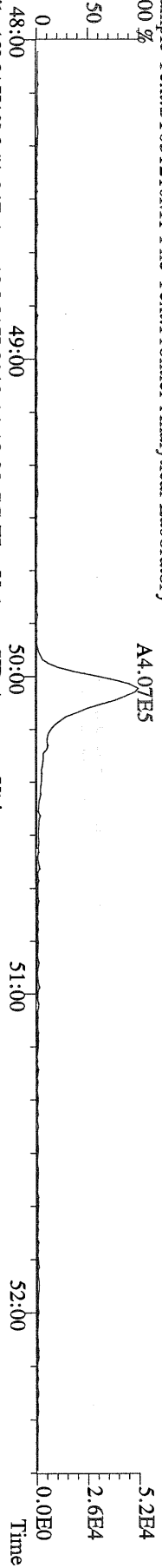
File:12MAY10M #1-541 Acq:12-MAY-2010 14:18:09 GC EI+ Voltage SIR Autospec-Ultima
 419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



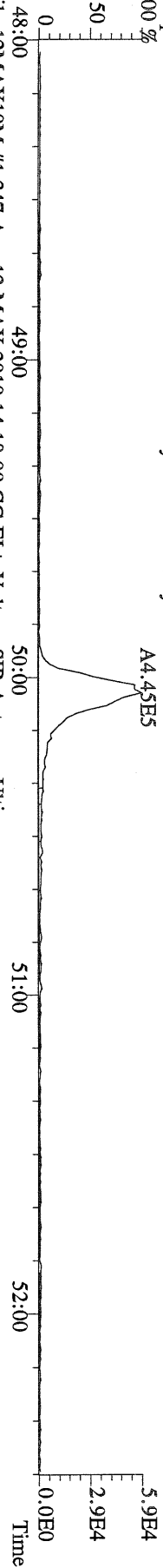
File:12MAY10M #1-541 Acq:12-MAY-2010 14:18:09 GC EI+ Voltage SIR Autospec-Ultima
 479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



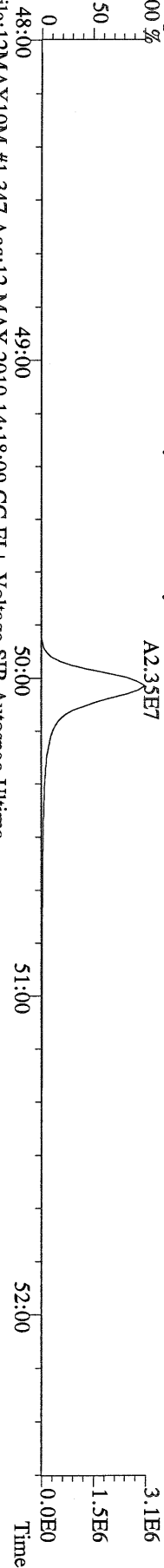
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441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
100 %



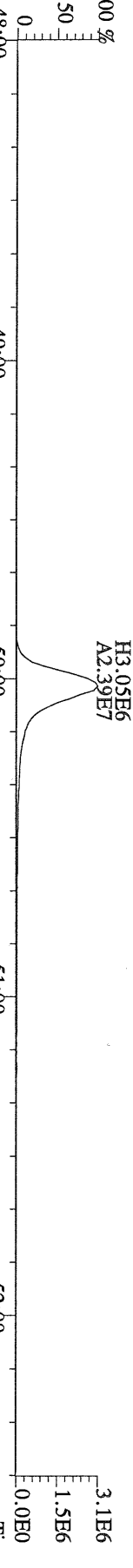
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443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
100 %



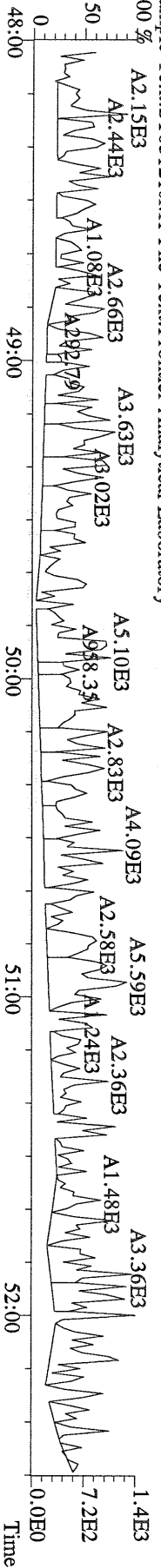
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453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
100 %



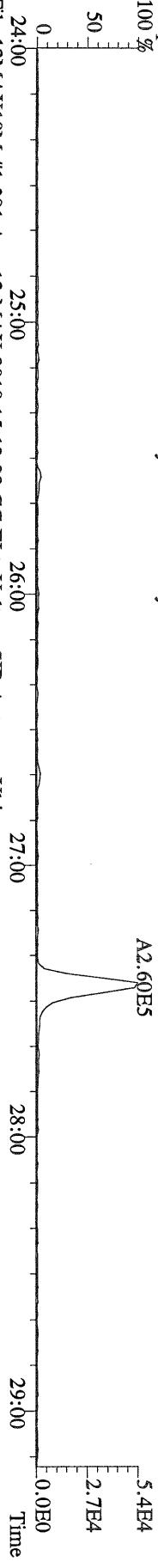
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455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



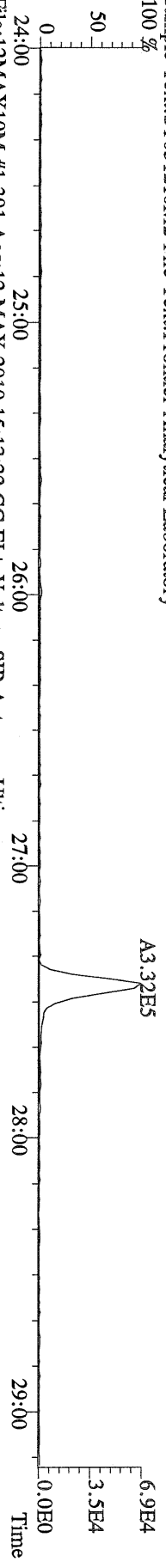
File:12MAY10M #1-347 Acq:12-MAY-2010 14:18:09 GC EI + Voltage SIR Autospec-Ultima
513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
100 %



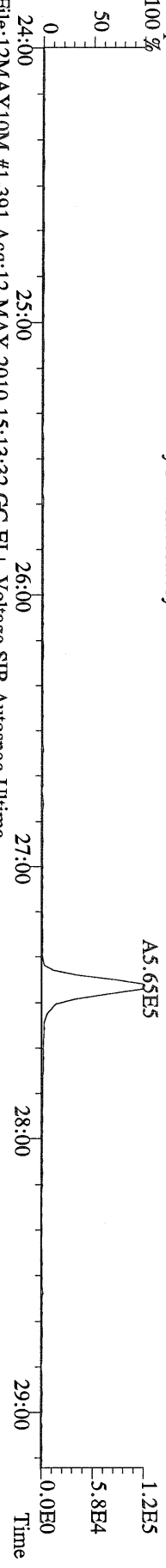
File:12MAY10M #1-391 Acq:12-MAY-2010 15:13:32 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory
100 %



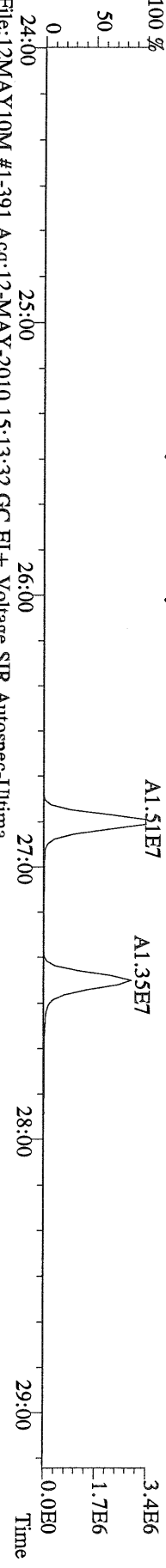
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321.8936 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory
100 %



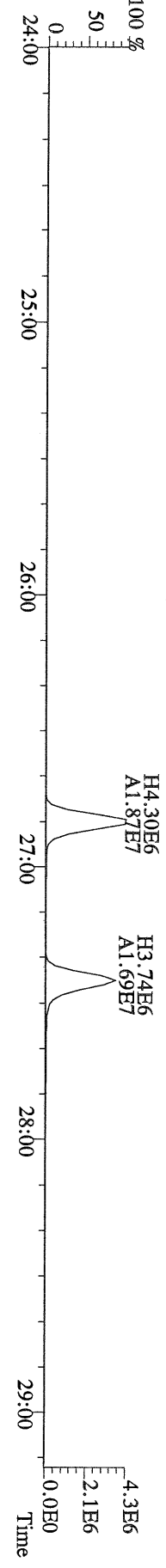
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327.8847 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory
100 %



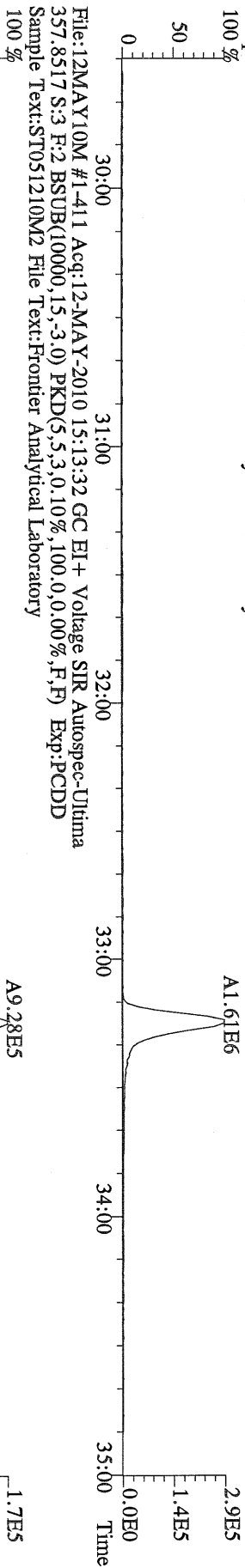
File:12MAY10M #1-391 Acq:12-MAY-2010 15:13:32 GC EI + Voltage SIR Autospec-Ultima
331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory
100 %



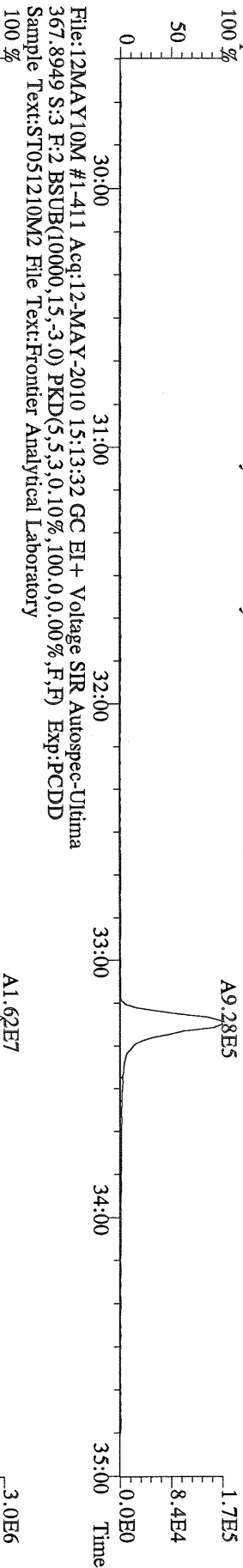
File:12MAY10M #1-391 Acq:12-MAY-2010 15:13:32 GC EI + Voltage SIR Autospec-Ultima
333.9339 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



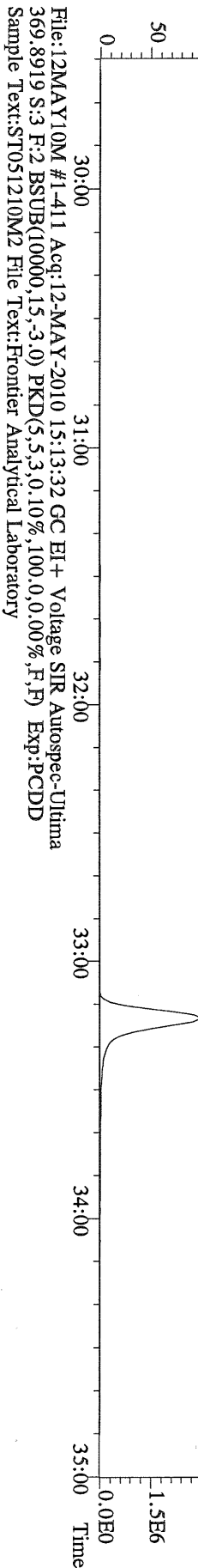
File:12MAY10M #1-411 Acq:12-MAY-2010 15:13:32 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



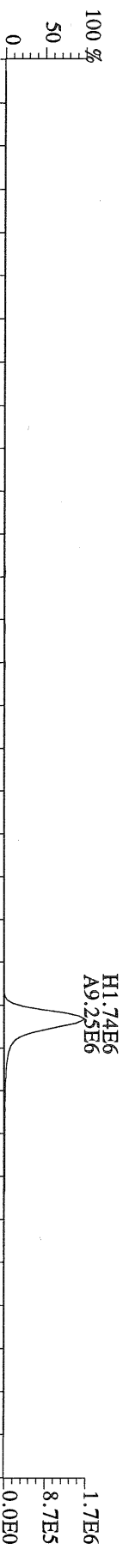
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357.8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



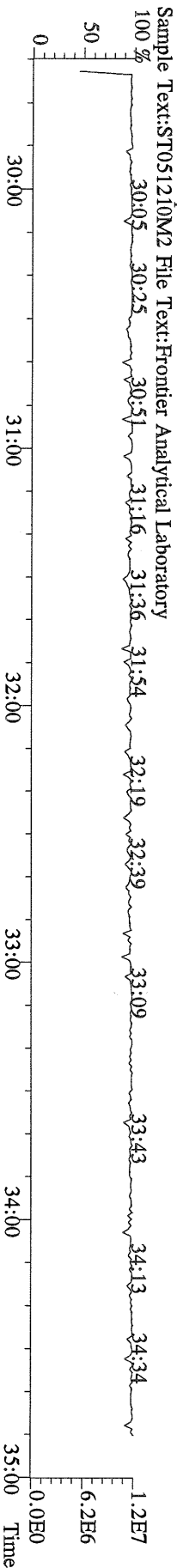
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367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



File:12MAY10M #1-411 Acq:12-MAY-2010 15:13:32 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory

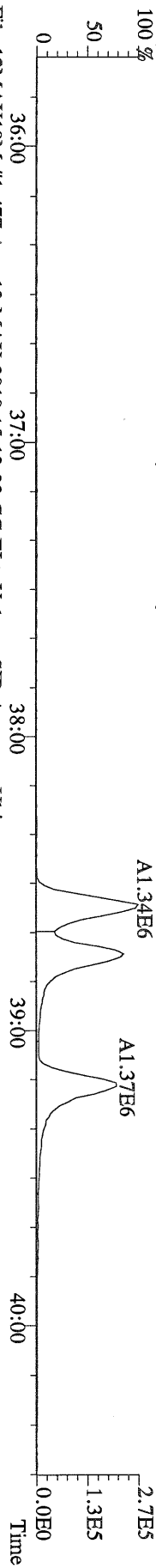


File:12MAY10M #1-411 Acq:12-MAY-2010 15:13:32 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:3 F:2 Exp:PCDD

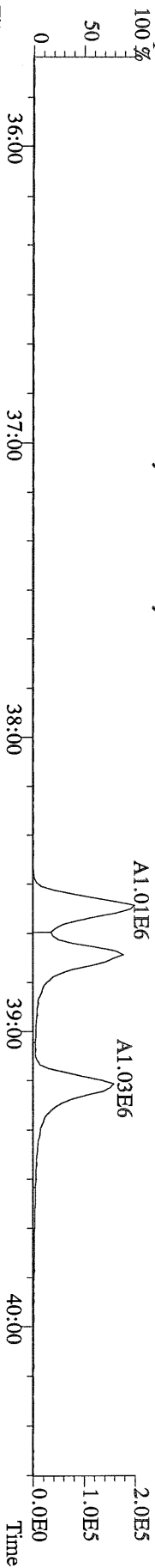


Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory

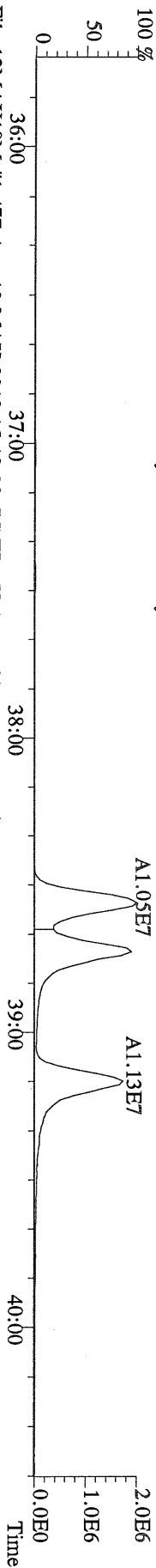
File:12MAY10M #1-477 Acq:12-MAY-2010 15:13:32 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



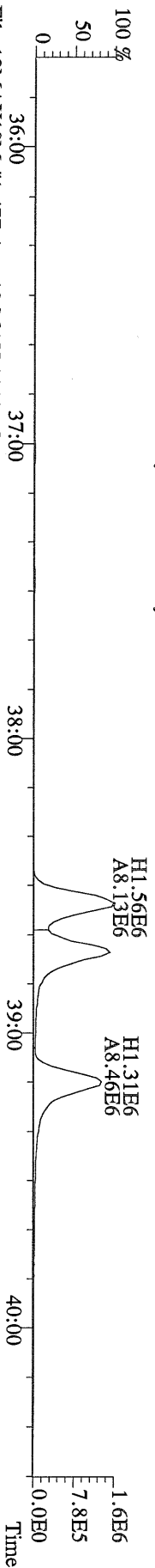
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391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



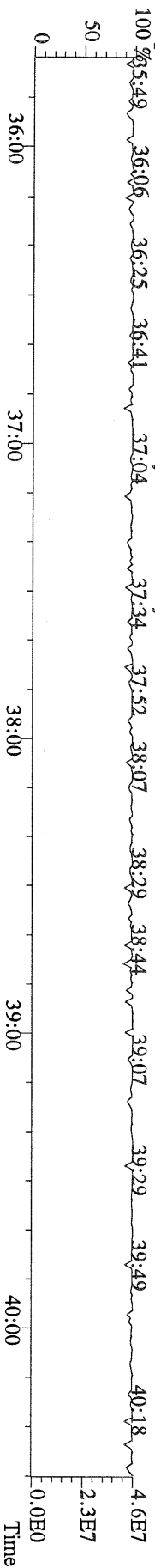
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401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



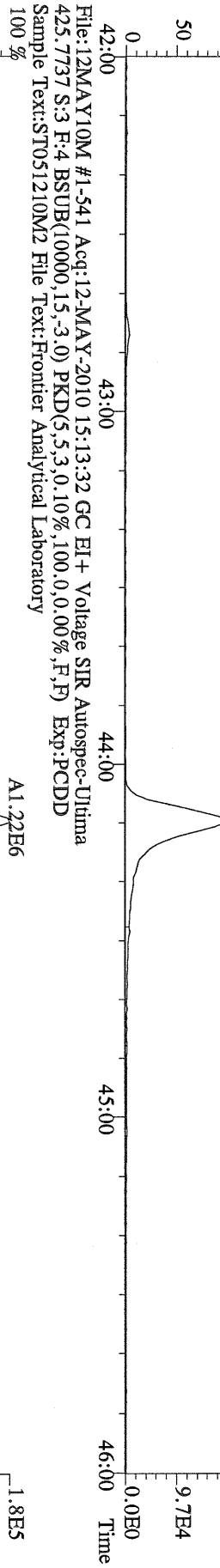
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403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



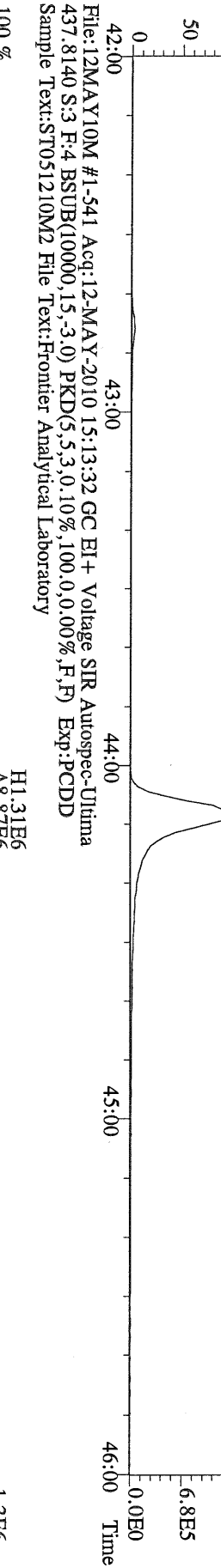
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380.9760 S:3 F:3 Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



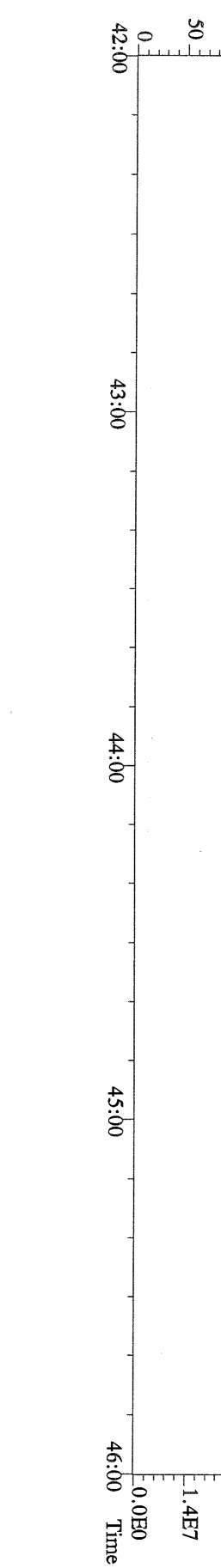
File:12MAY10M #1-541 Acq:12-MAY-2010 15:13:32 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



File:12MAY10M #1-541 Acq:12-MAY-2010 15:13:32 GC EI+ Voltage SIR Autospec-Utima
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



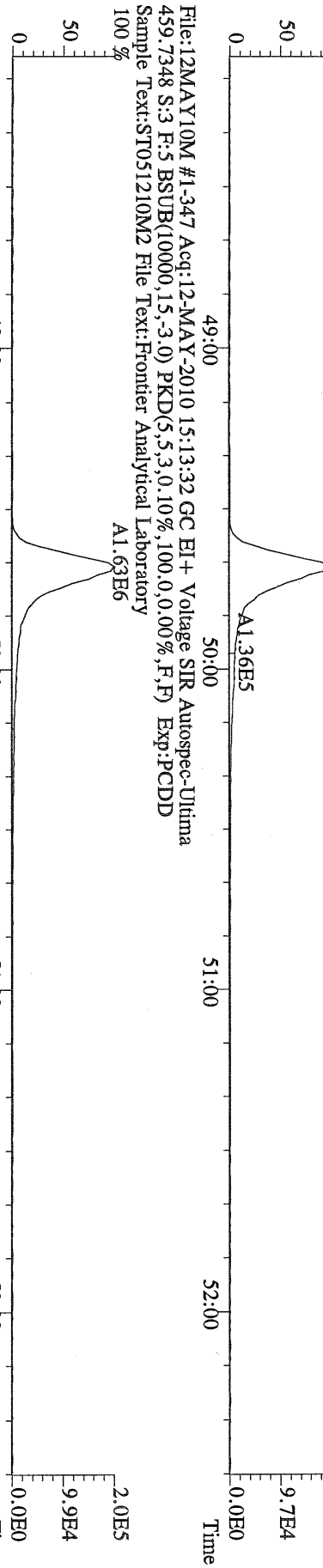
File:12MAY10M #1-541 Acq:12-MAY-2010 15:13:32 GC EI+ Voltage SIR Autospec-Utima
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



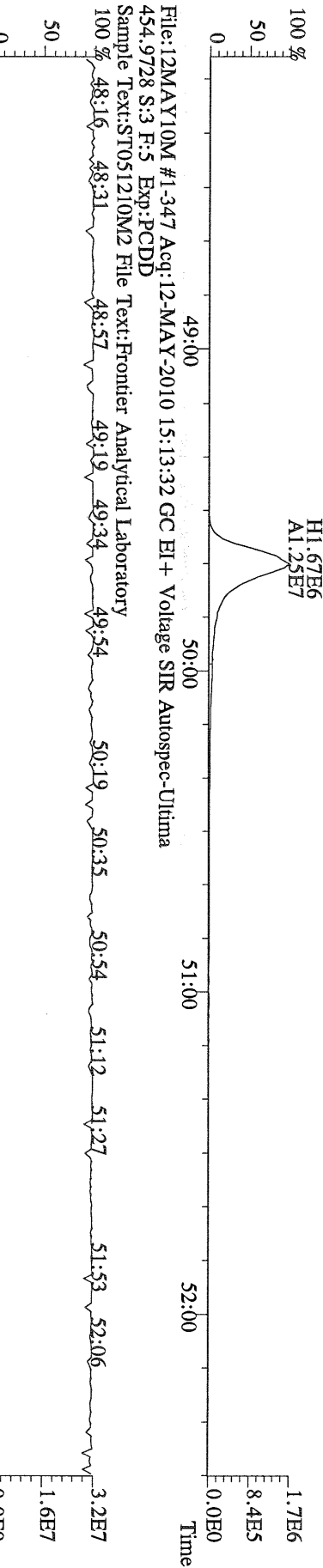
File:12MAY10M #1-541 Acq:12-MAY-2010 15:13:32 GC EI+ Voltage SIR Autospec-Utima
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



File:12MAY10M #1-347 Acq:12-MAY-2010 15:13:32 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



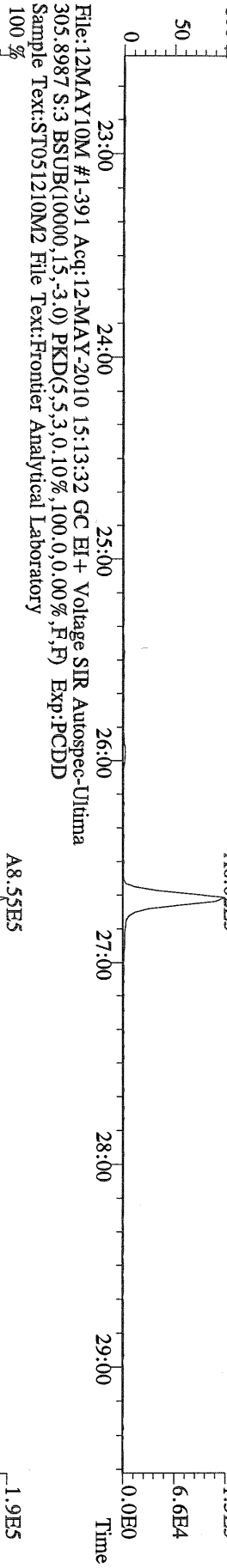
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469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



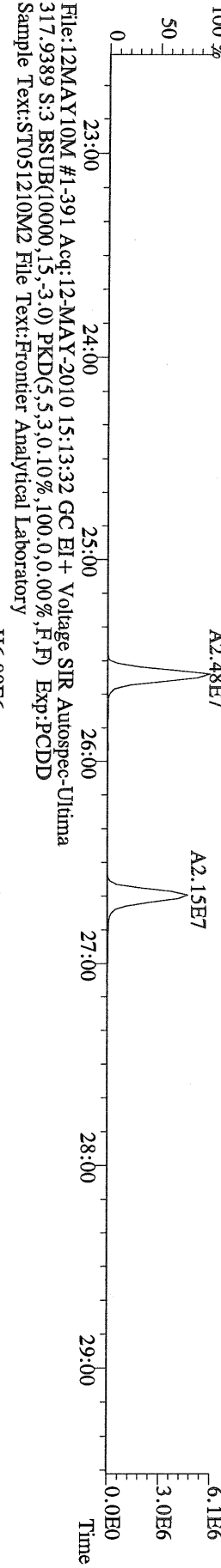
File:12MAY10M #1-347 Acq:12-MAY-2010 15:13:32 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:3 F:5 Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



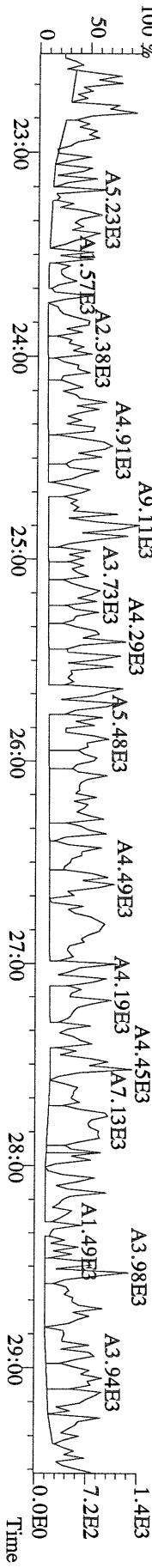
File:12MAY10M #1-391 Acq:12-MAY-2010 15:13:32 GC EI + Voltage SIR Autospec-Utima
 303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



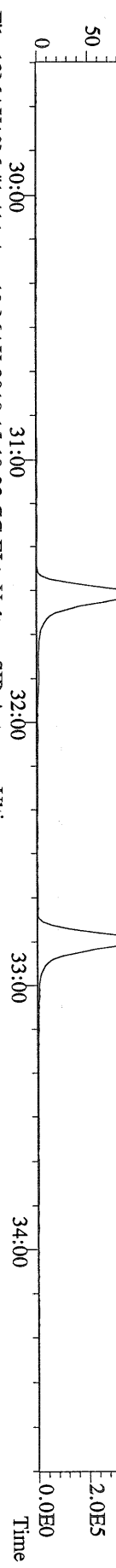
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 315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



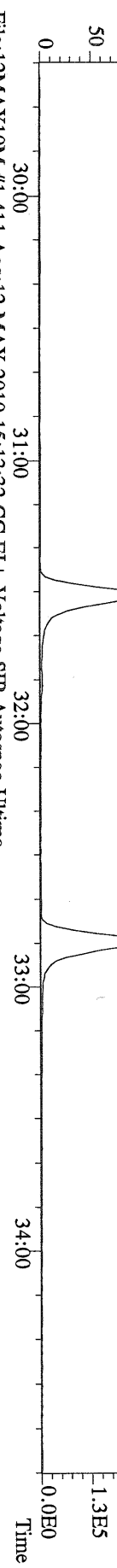
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 317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



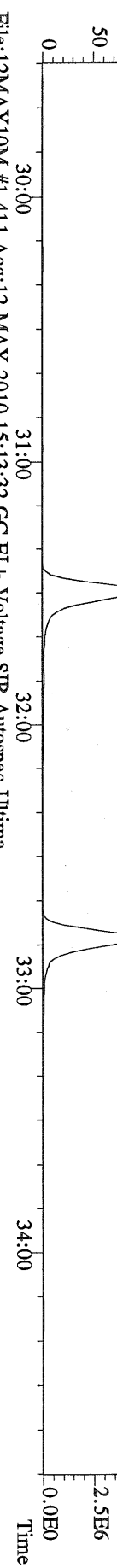
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 339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



File:12MAY10M #1-411 Acq:12-MAY-2010 15:13:32 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



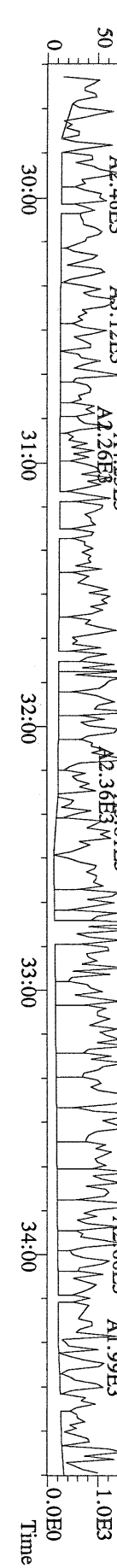
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 351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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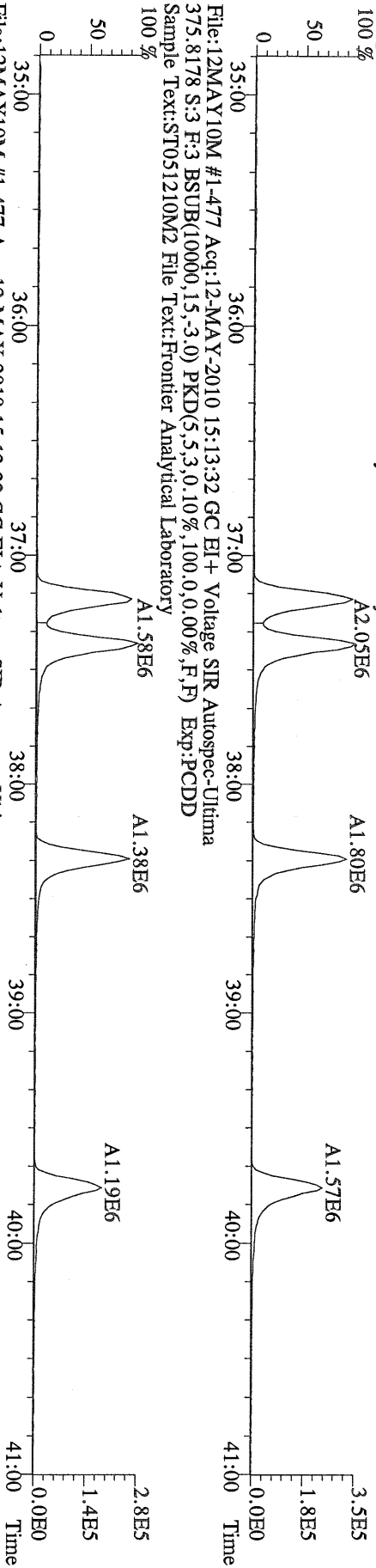
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 353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



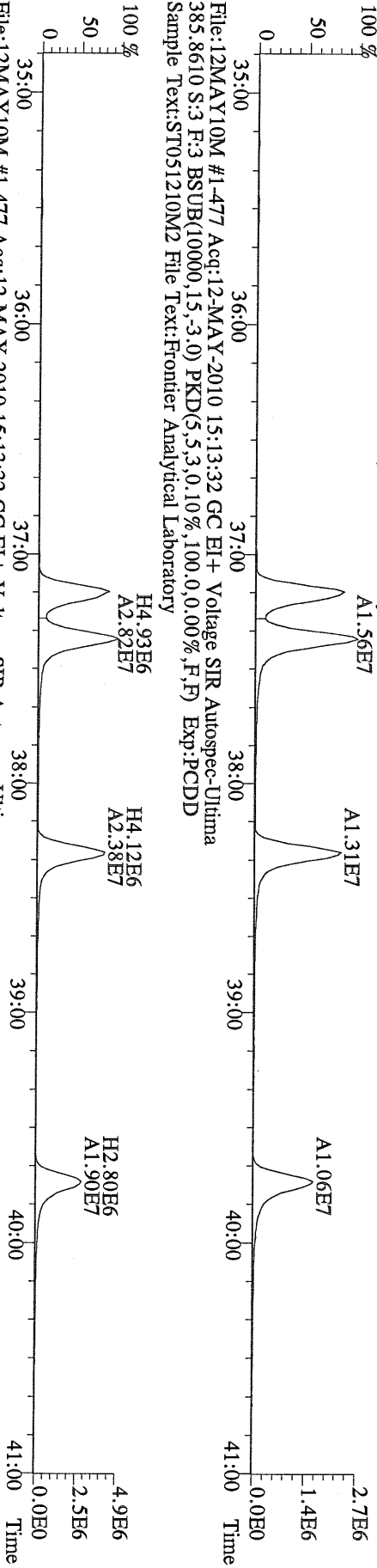
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 409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



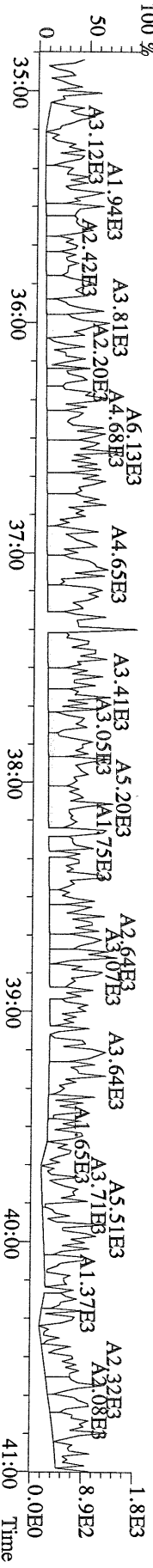
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 373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



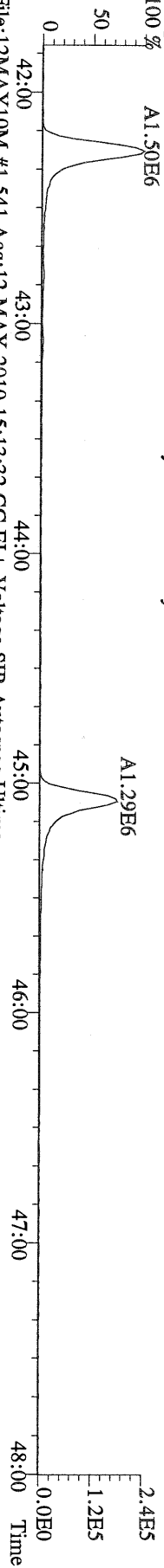
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 383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



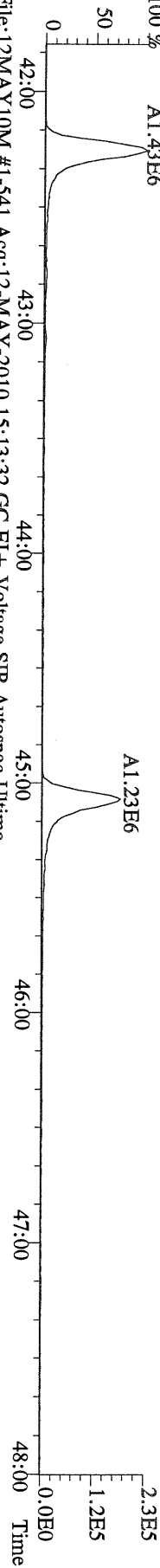
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 445.7555 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



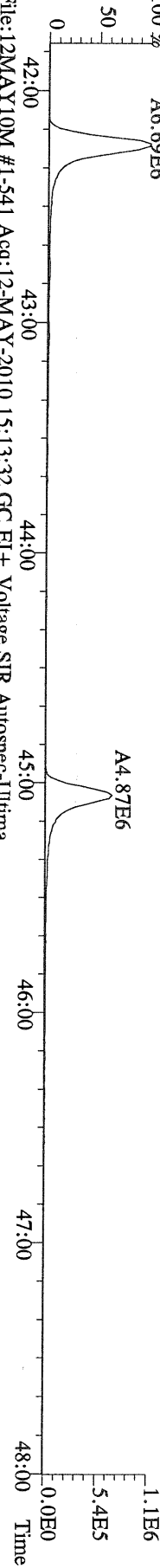
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407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



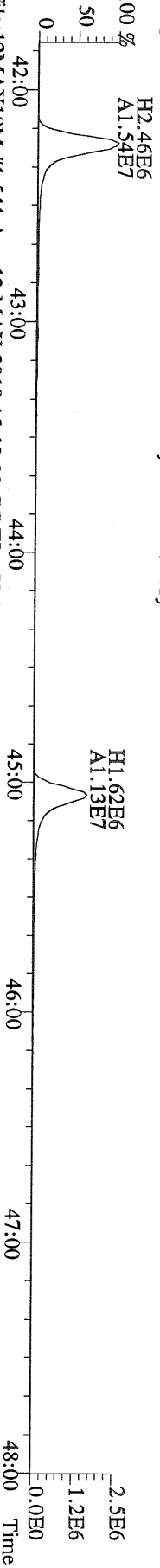
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409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



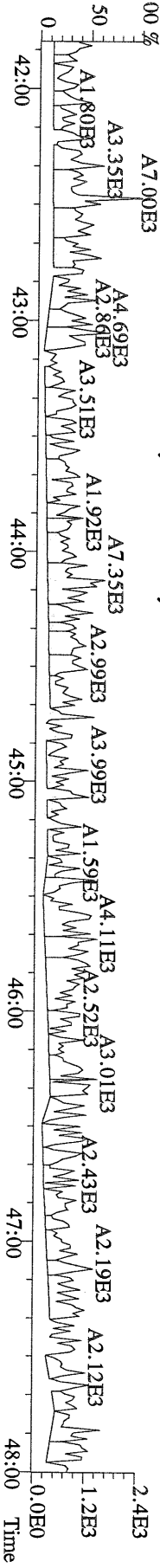
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417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



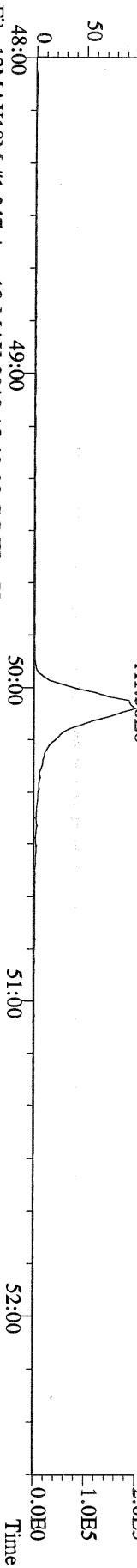
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419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



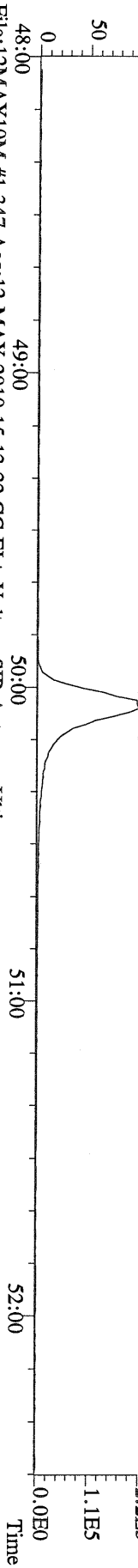
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479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



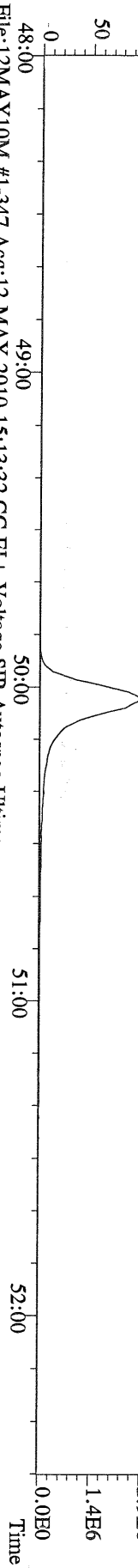
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 441.7428 S.3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory
 100 %



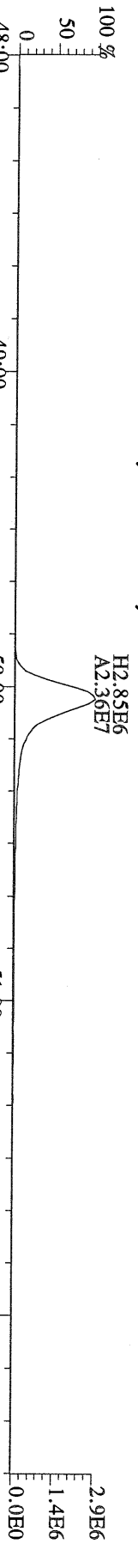
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 443.7398 S.3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory
 100 %



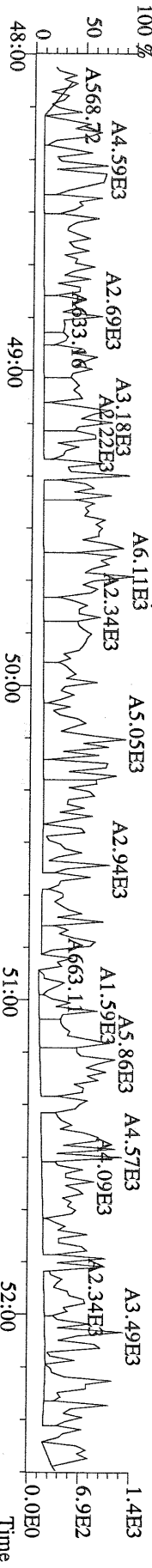
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 453.7831 S.3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory
 100 %



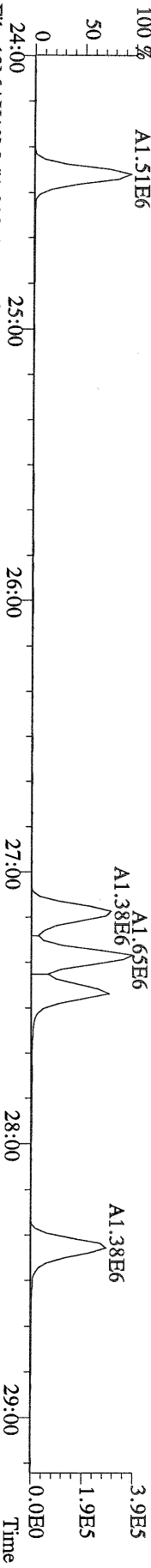
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 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



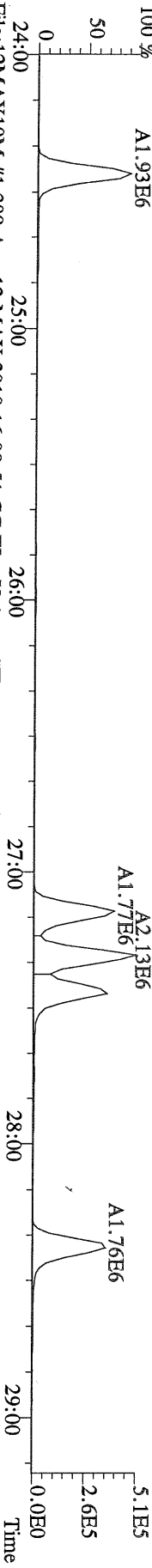
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 513.6775 S.3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



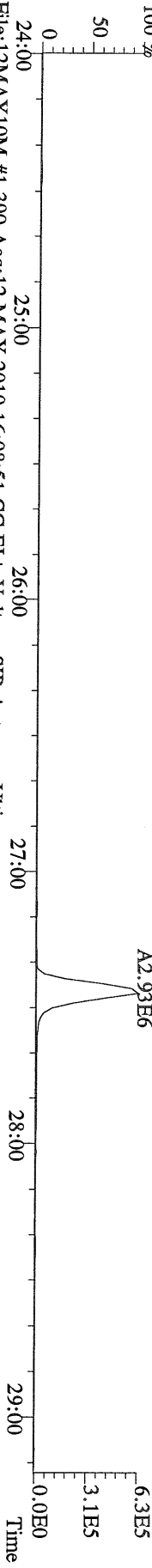
File:12MAY10M #1-390 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory
100% A1.51E6



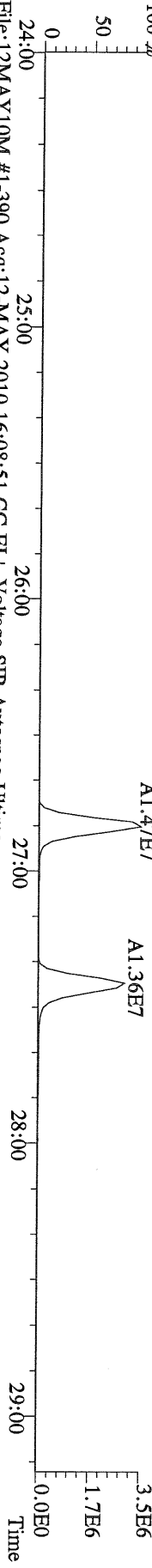
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321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory
100% A1.93E6



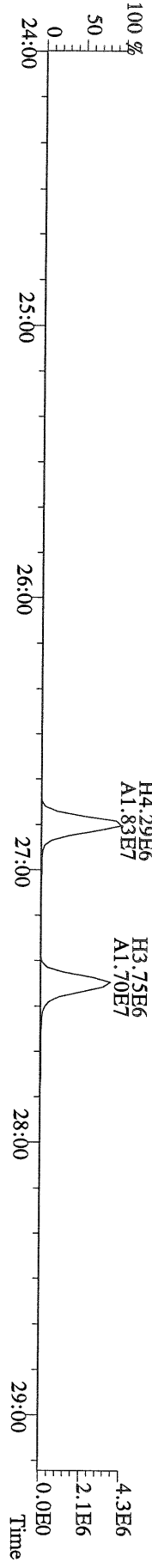
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327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory
100% A2.93E6



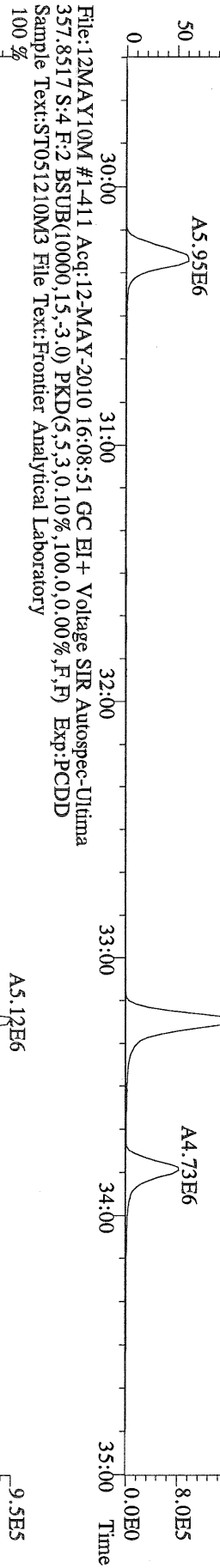
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331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory
100% H4.29E6
A1.83E7



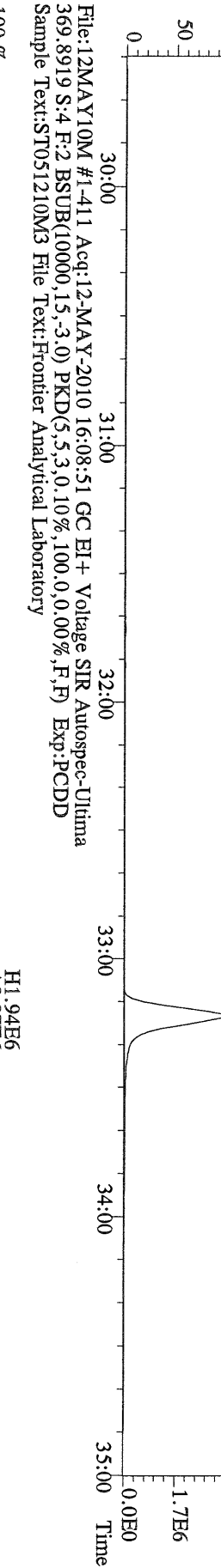
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333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory
100% H3.75E6
A1.70E7



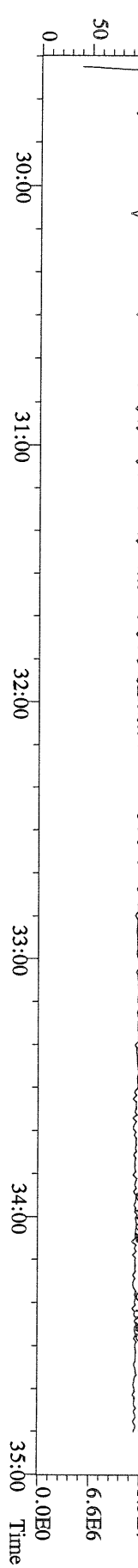
File:12MAY10M #1-411 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
 355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



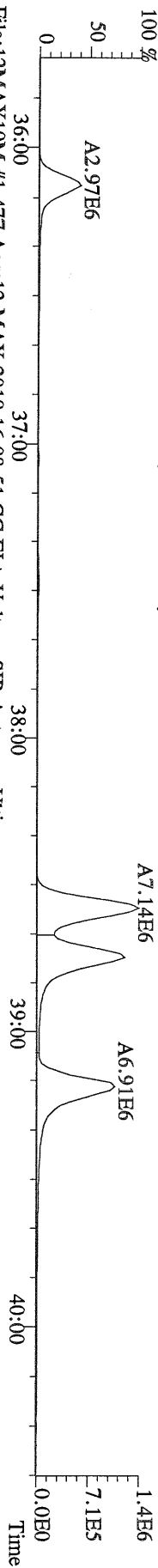
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 367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



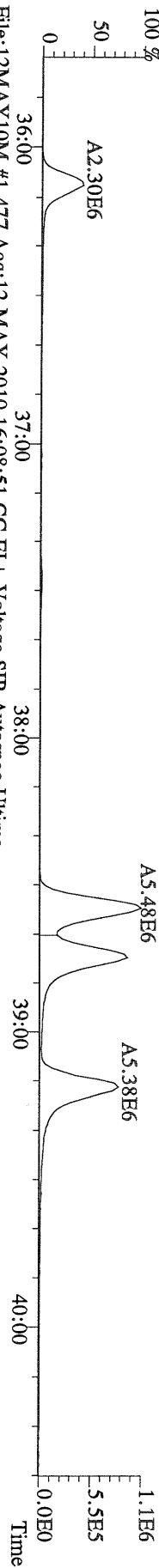
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 366.9792 S:4 F:2 Exp:PCDD
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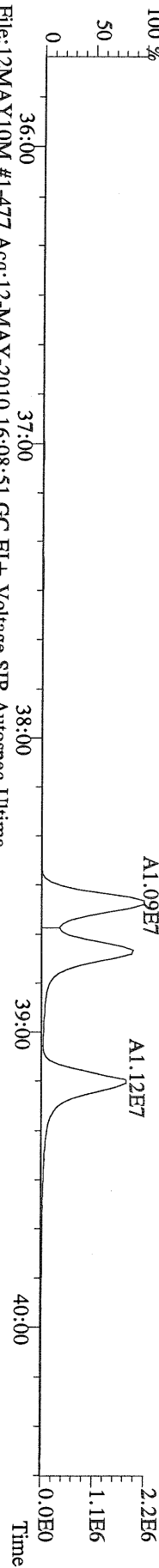
File:12MAY10M #1-477 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
 389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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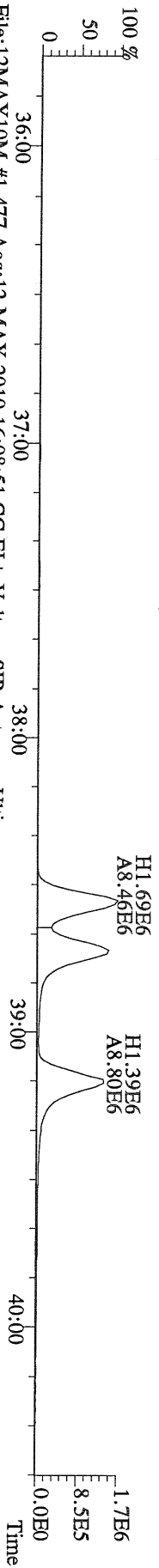
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 391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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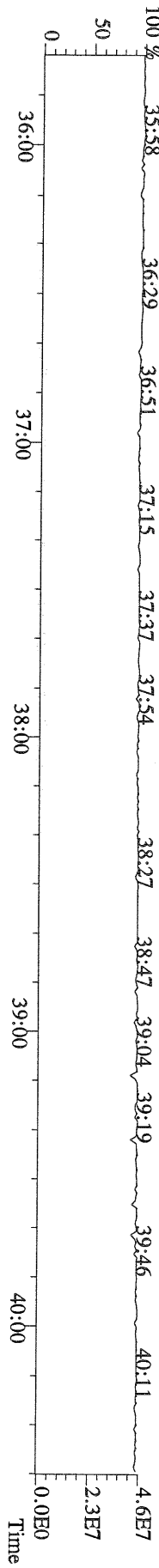
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 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



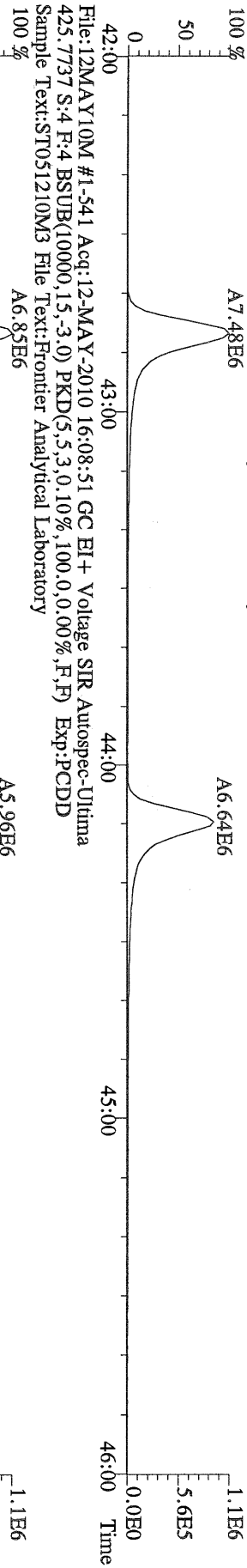
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 403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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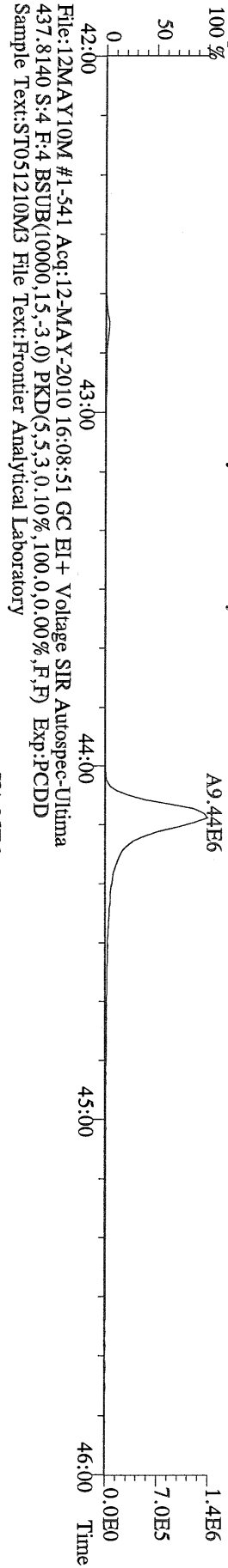
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 380.9760 S:4 F:3 Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



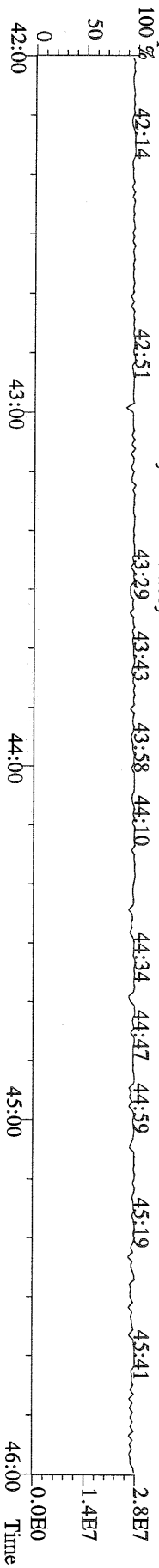
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423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



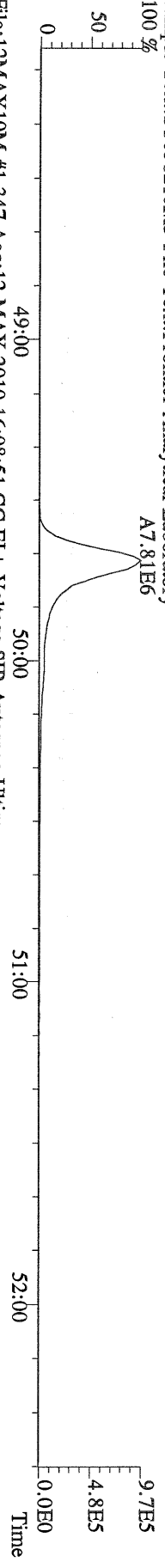
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435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



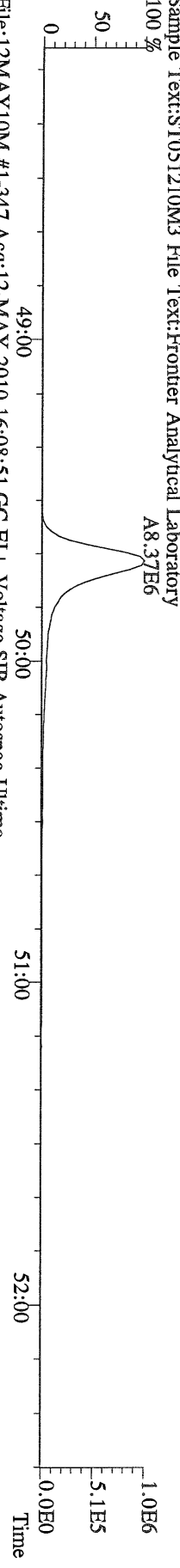
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430.9728 S:4 F:4 Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



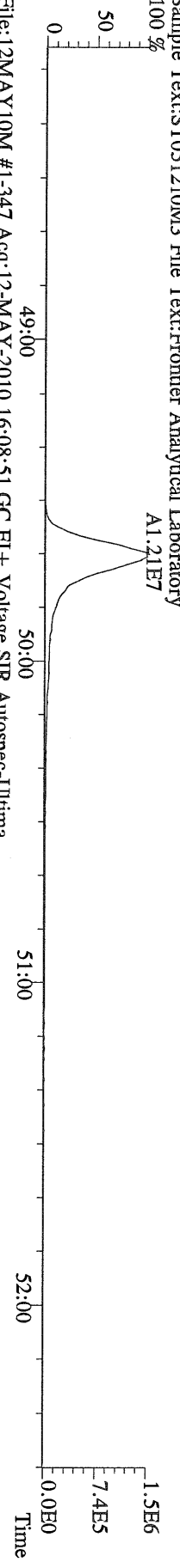
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 457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



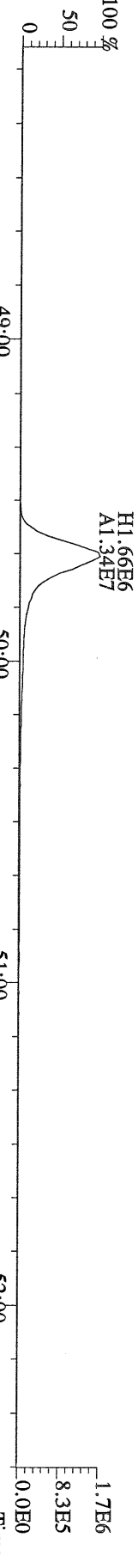
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 459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



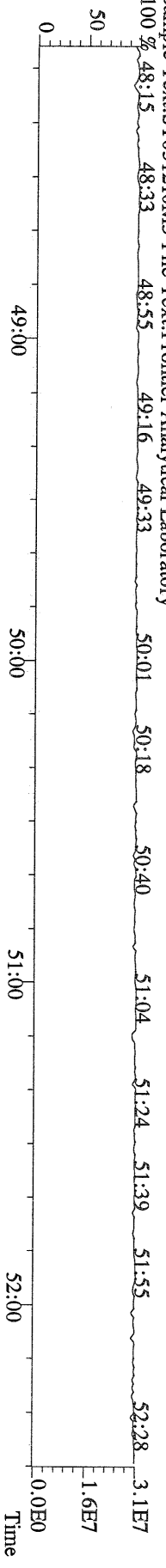
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 469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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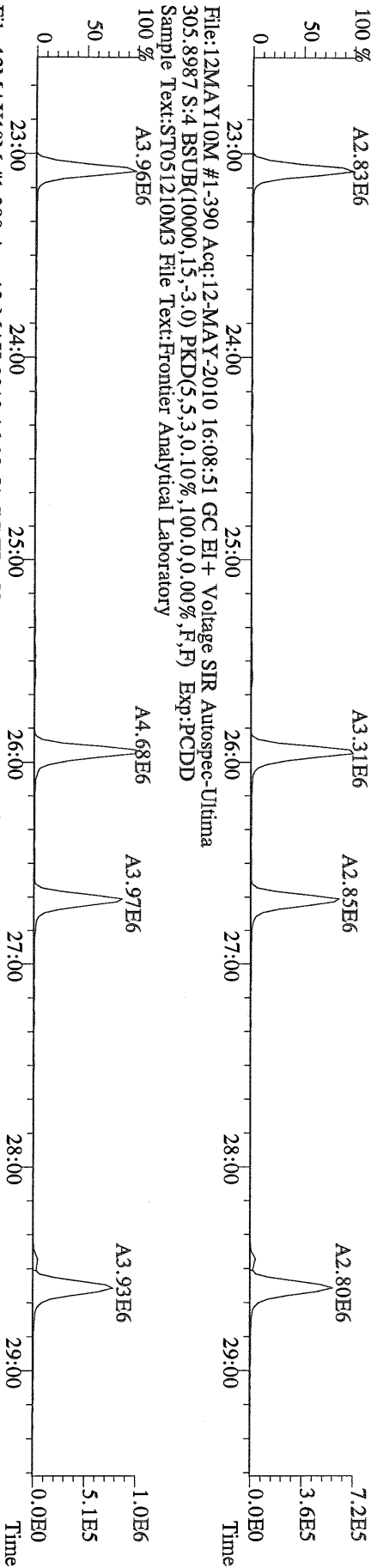
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 471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



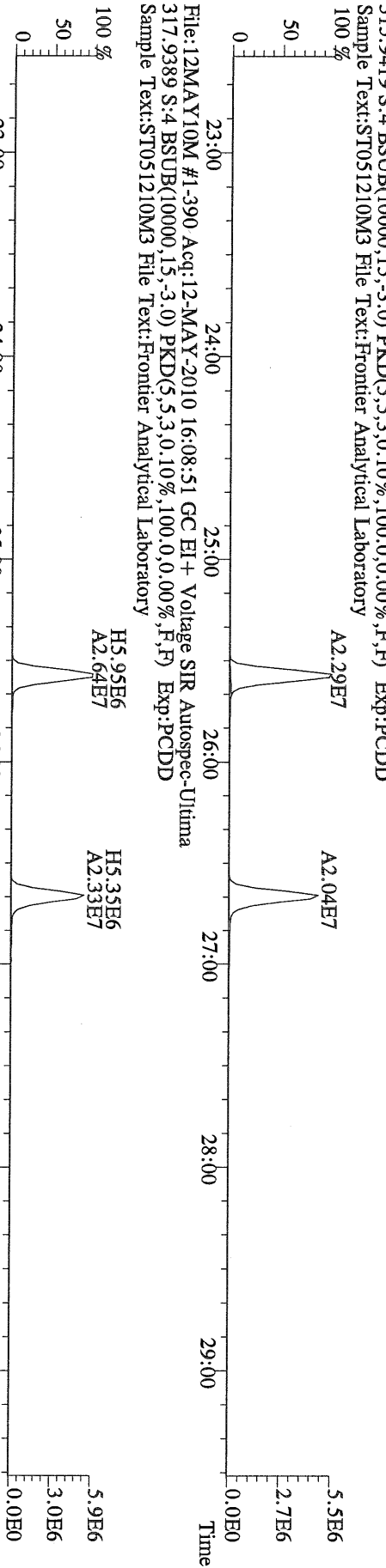
File:12MAY10M #1-347 Acq:12-MAY-2010 16:08:51 GC EI + Voltage SIR Autospec-Ultima
 454.9728 S:4 F:5 Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



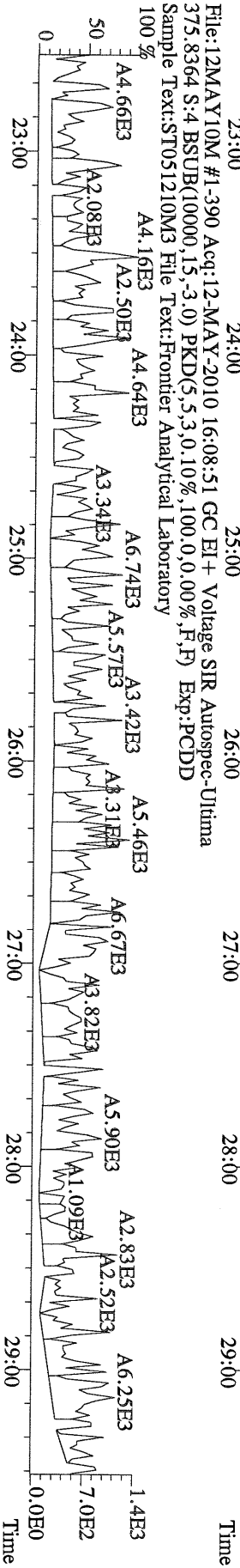
File:12MAY10M #1-390 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



File:12MAY10M #1-390 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
 315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory

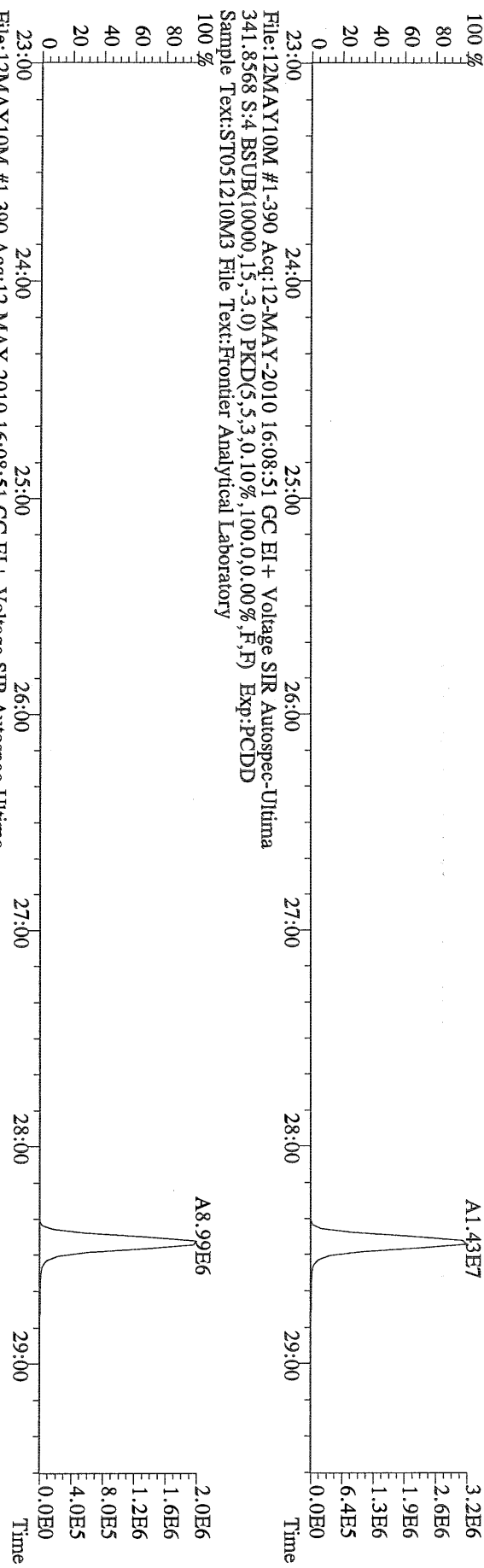


File:12MAY10M #1-390 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
 317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory

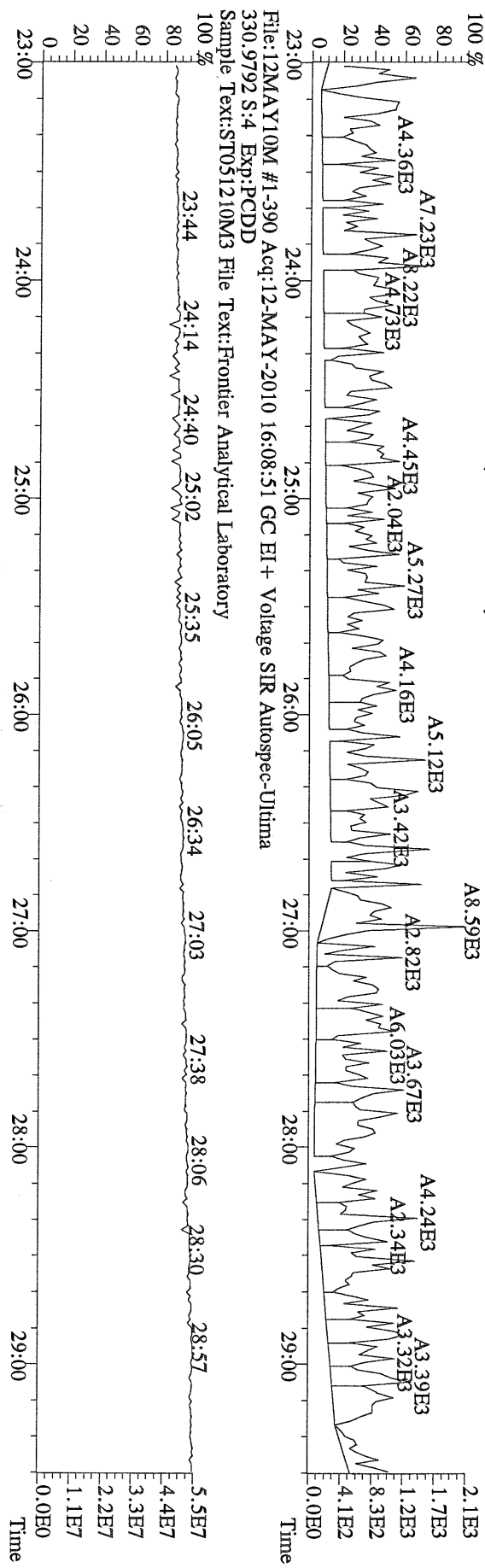


File:12MAY10M #1-390 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
 375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory

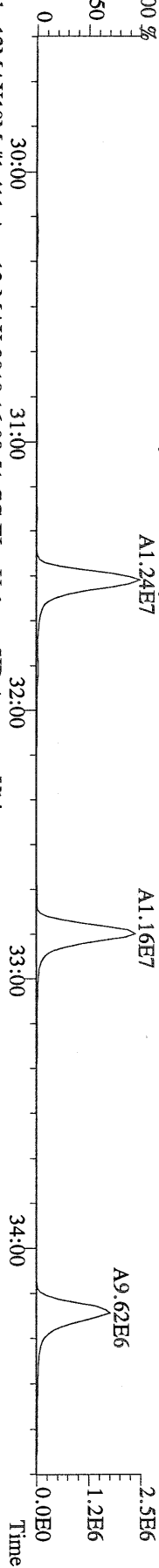
File:12MAY10M #1-390 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



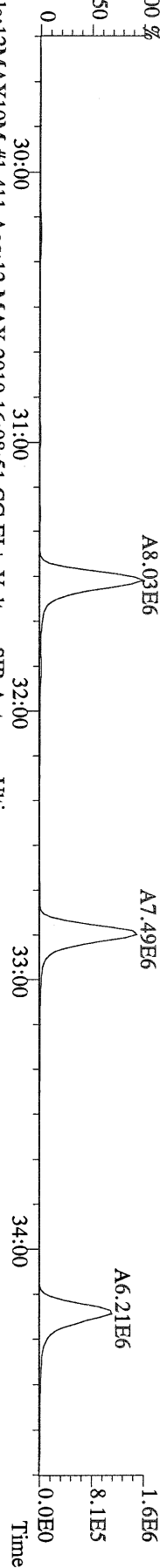
File:12MAY10M #1-390 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



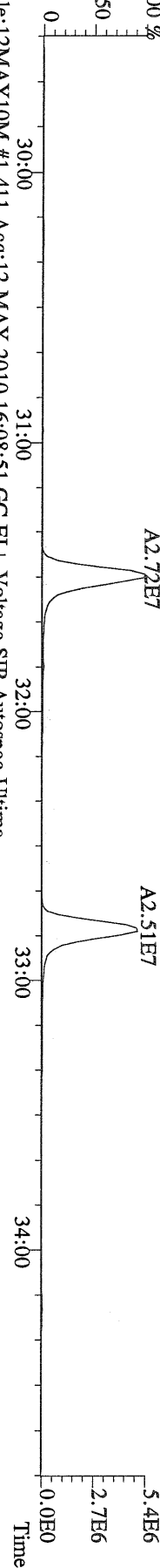
File:12MAY10M #1-411 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



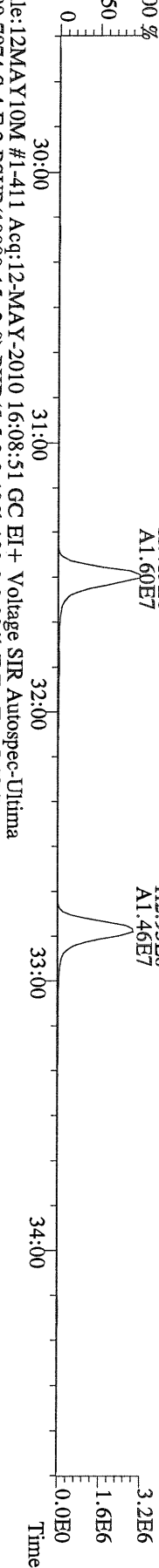
File:12MAY10M #1-411 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



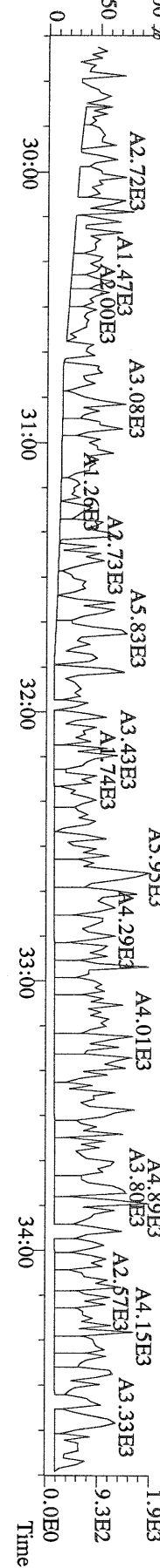
File:12MAY10M #1-411 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



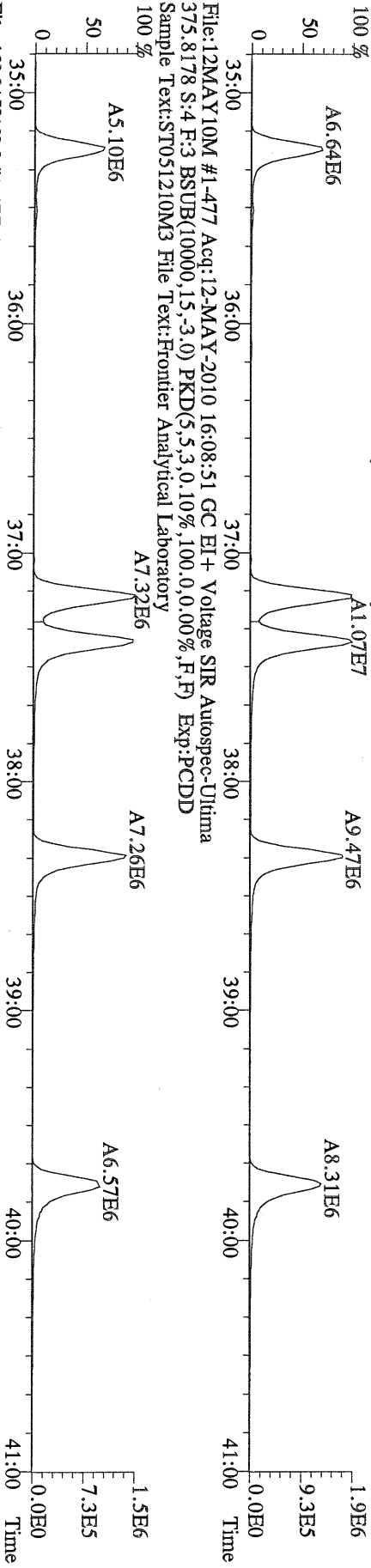
File:12MAY10M #1-411 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



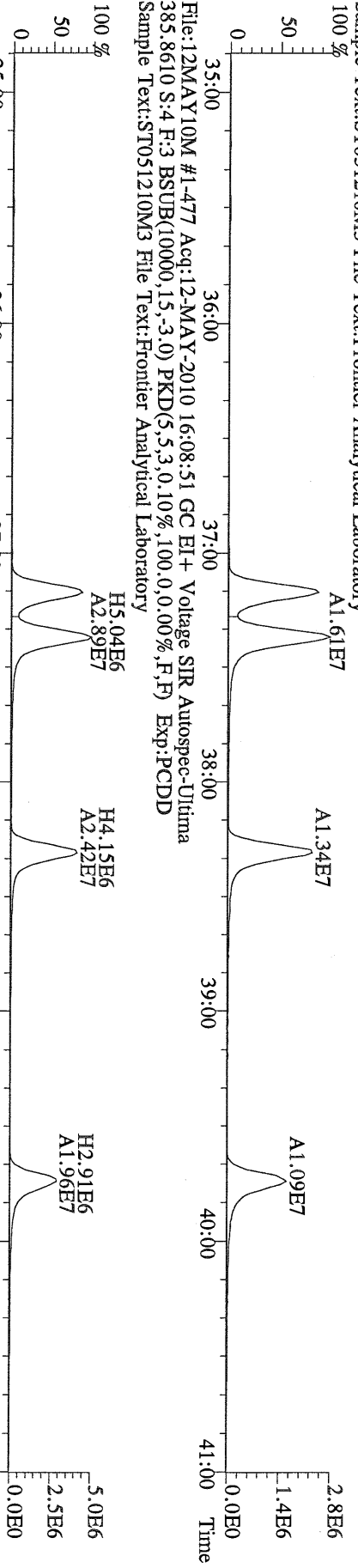
File:12MAY10M #1-411 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



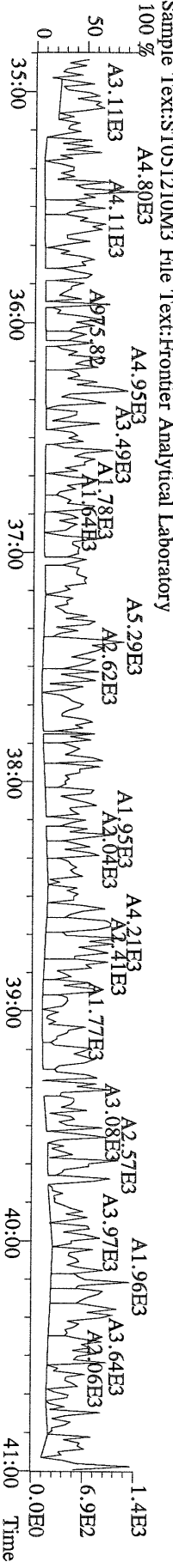
File:12MAY10M #1-477 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
 373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



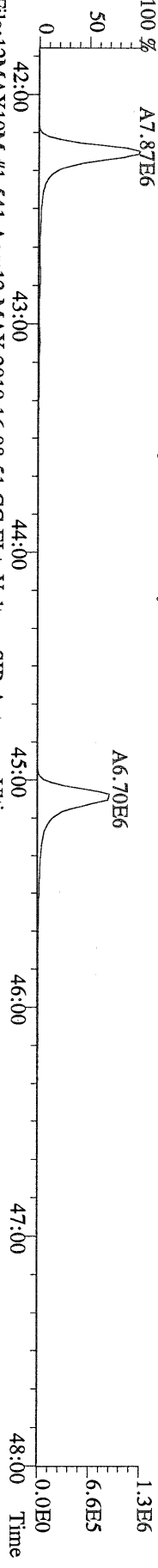
File:12MAY10M #1-477 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
 383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



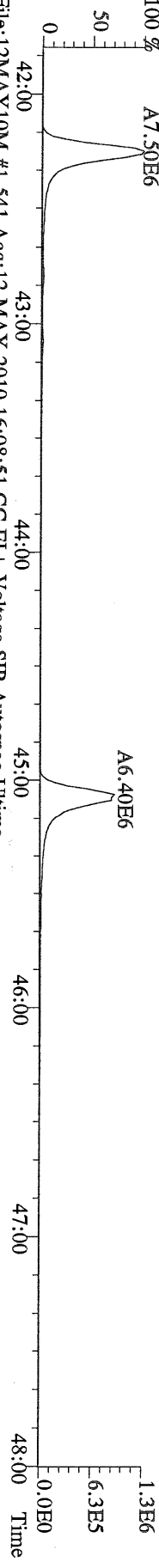
File:12MAY10M #1-477 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
 445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



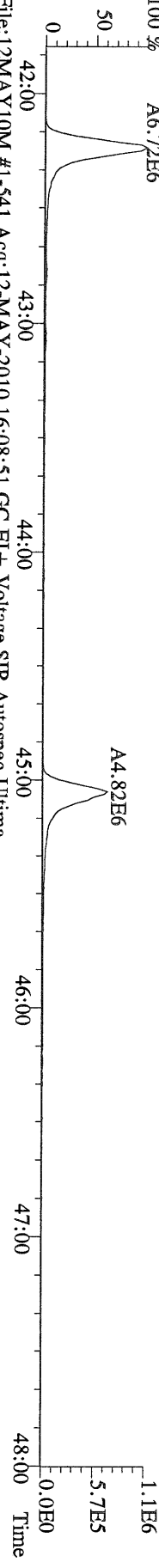
File:12MAY10M #1-541 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



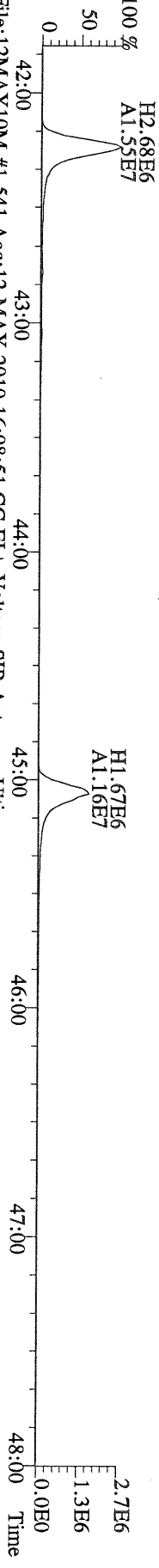
File:12MAY10M #1-541 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



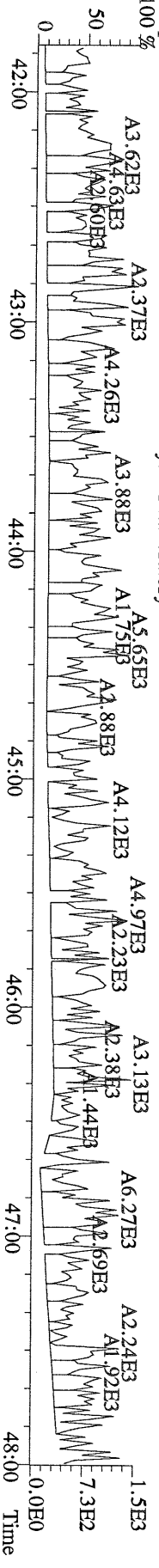
File:12MAY10M #1-541 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



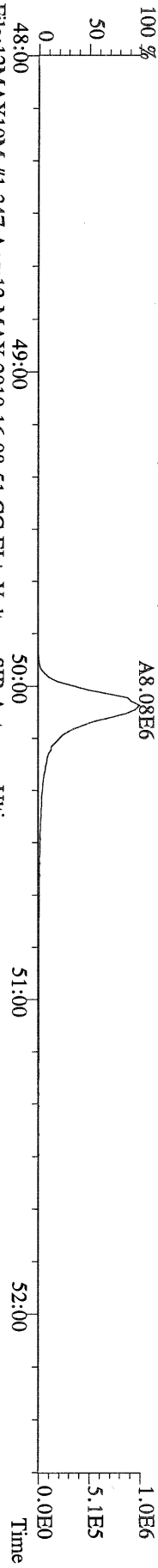
File:12MAY10M #1-541 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



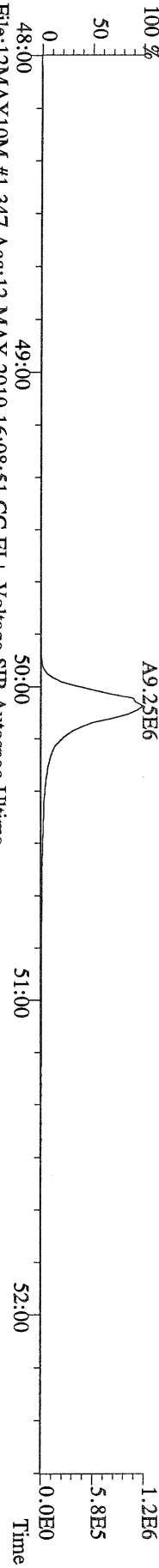
File:12MAY10M #1-541 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



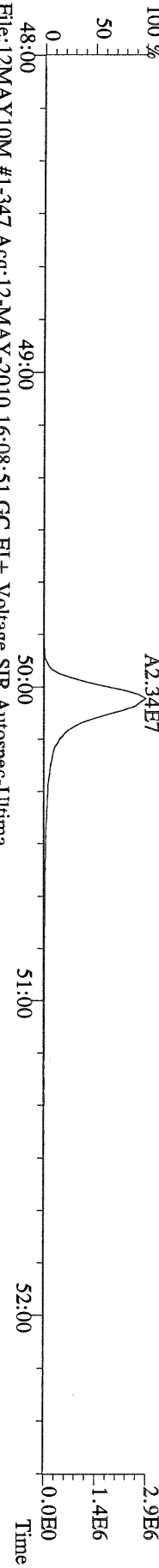
File:12MAY10M #1-347 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



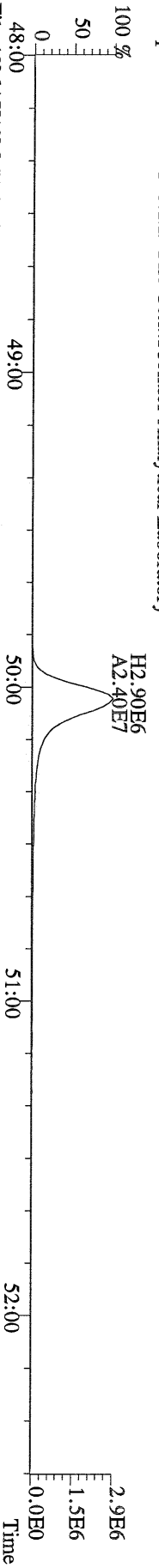
File:12MAY10M #1-347 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



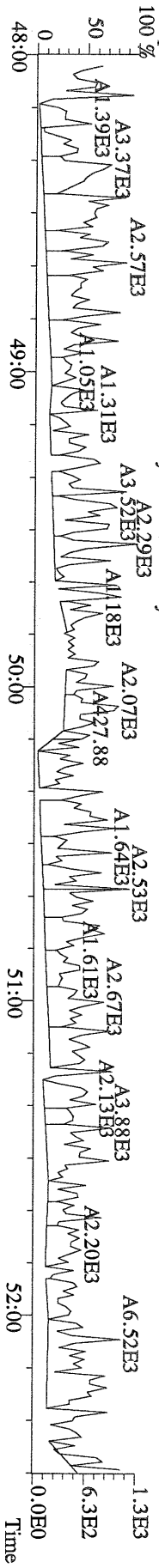
File:12MAY10M #1-347 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



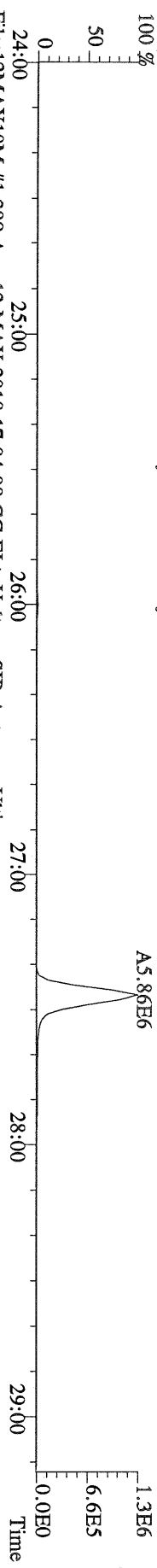
File:12MAY10M #1-347 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



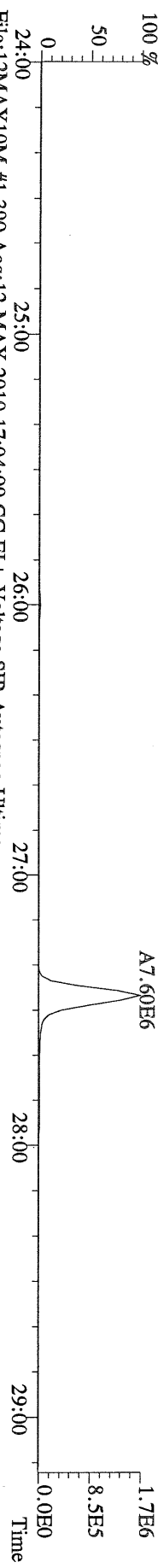
File:12MAY10M #1-347 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



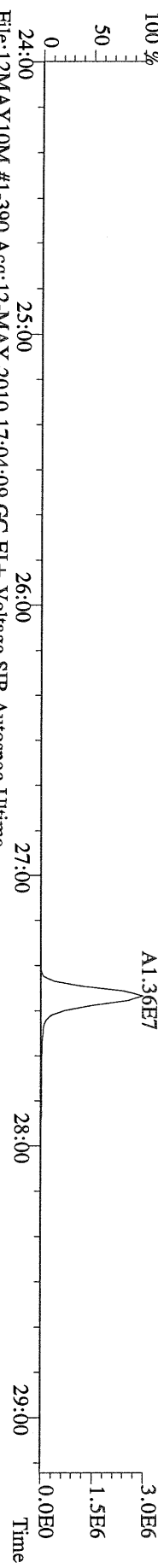
File:12MAY10M #1-390 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



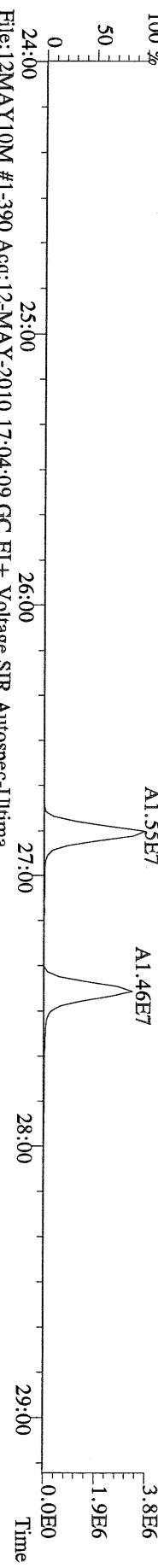
File:12MAY10M #1-390 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Ultima
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



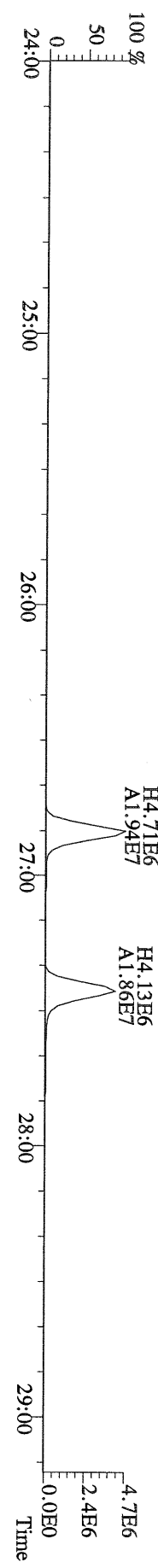
File:12MAY10M #1-390 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Ultima
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



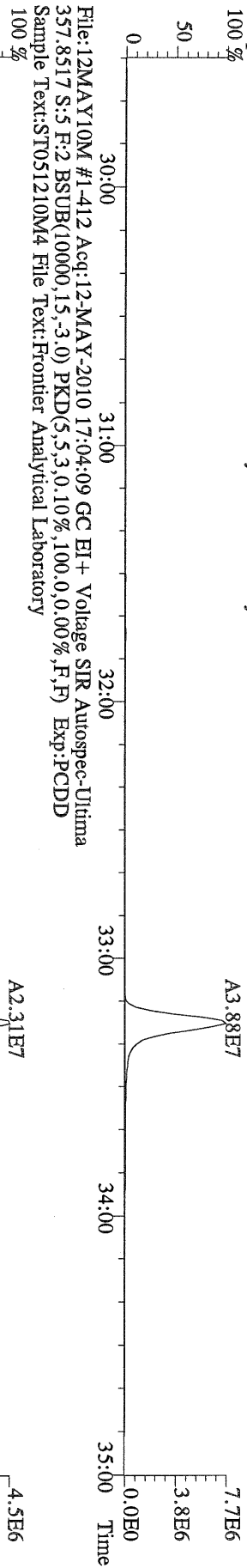
File:12MAY10M #1-390 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Ultima
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



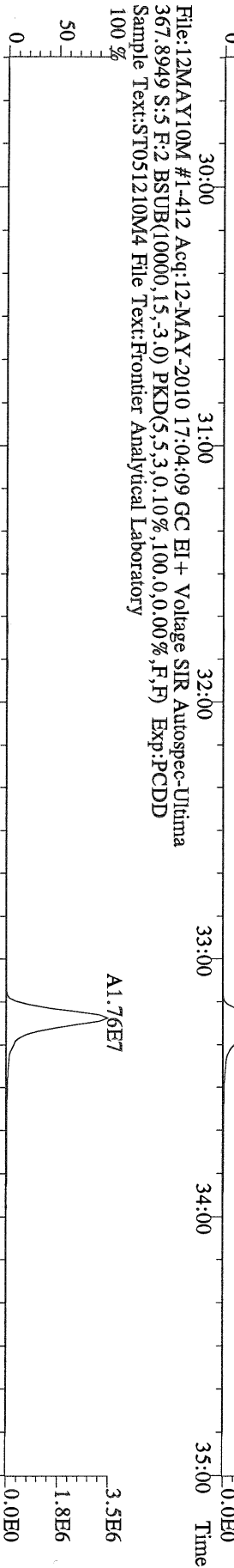
File:12MAY10M #1-390 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Ultima
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



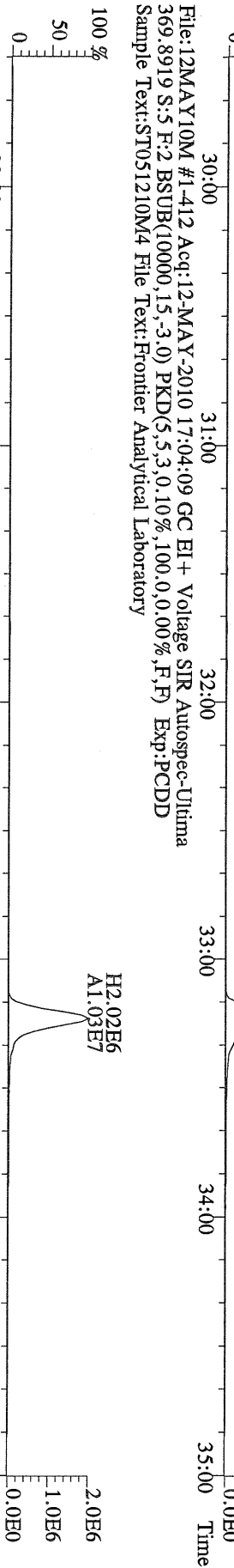
File:12MAY10M #1-412 Acq:12-MAY-2010 17:04:09 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S.5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



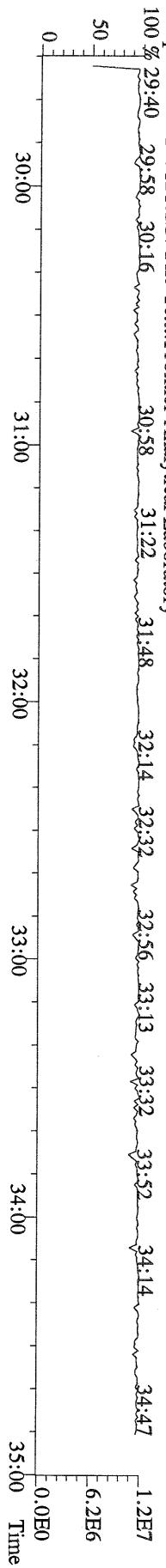
File:12MAY10M #1-412 Acq:12-MAY-2010 17:04:09 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S.5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



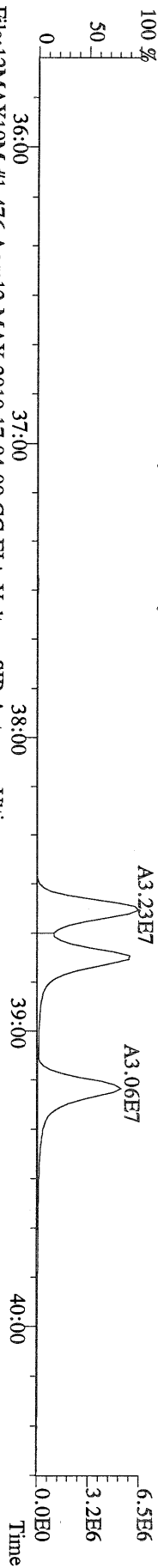
File:12MAY10M #1-412 Acq:12-MAY-2010 17:04:09 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S.5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



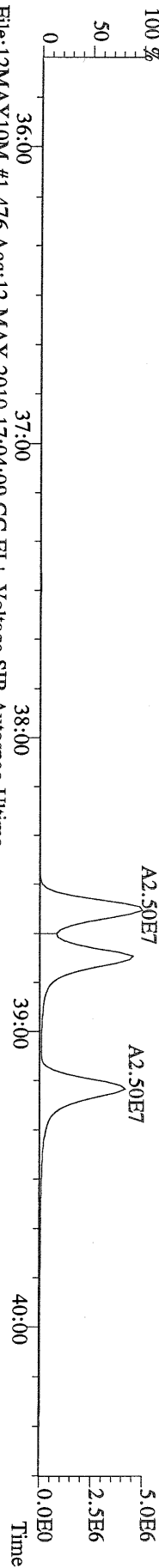
File:12MAY10M #1-412 Acq:12-MAY-2010 17:04:09 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S.5 F:2 Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



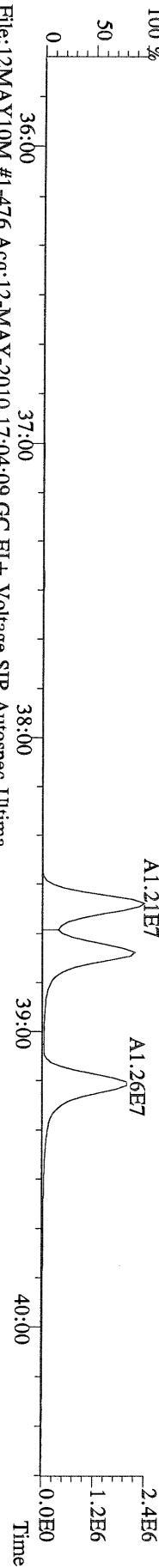
File:12MAY10M #1-476 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Ultima
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



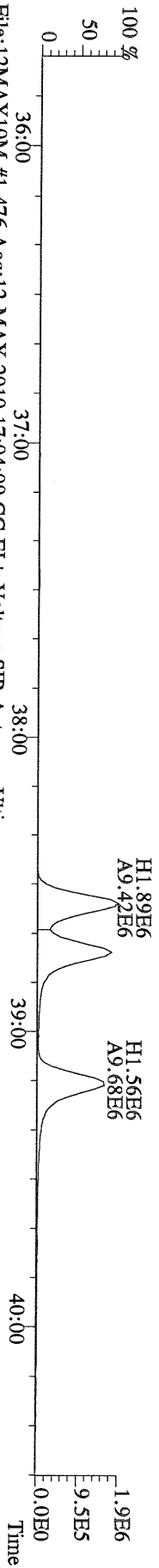
File:12MAY10M #1-476 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Ultima
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



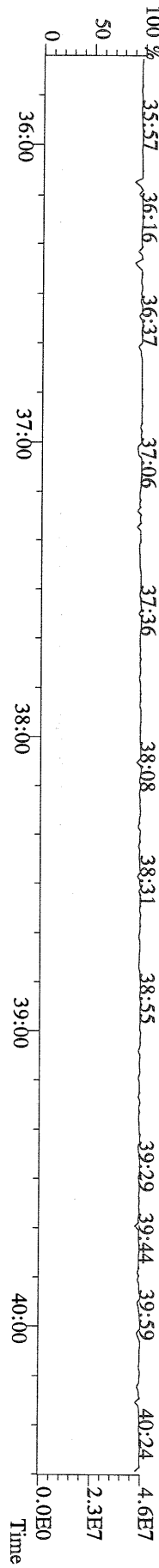
File:12MAY10M #1-476 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Ultima
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



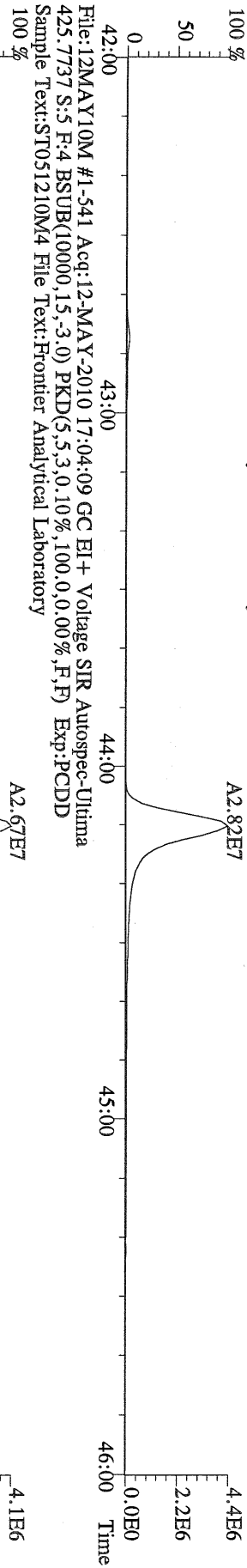
File:12MAY10M #1-476 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Ultima
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



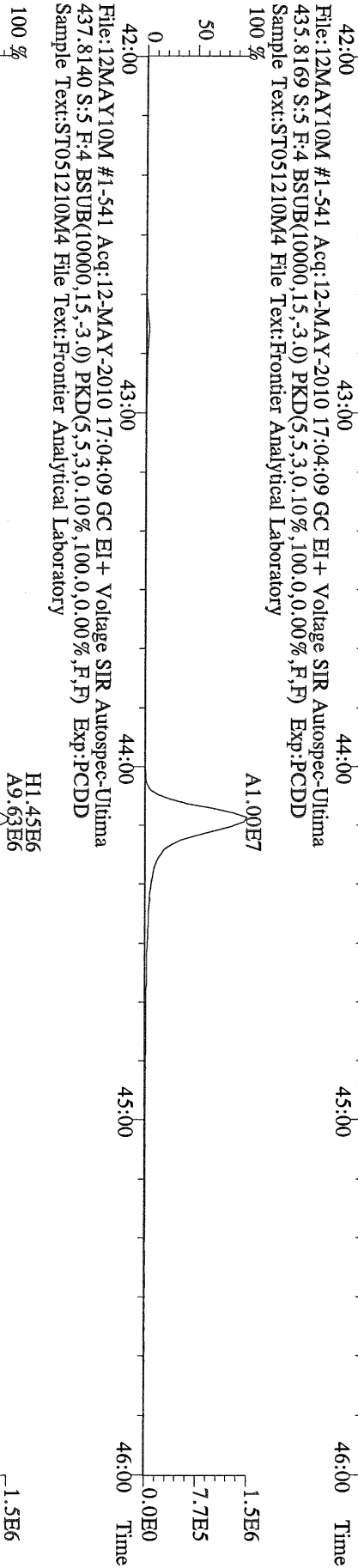
File:12MAY10M #1-476 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Ultima
380.9760 S:5 F:3 Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



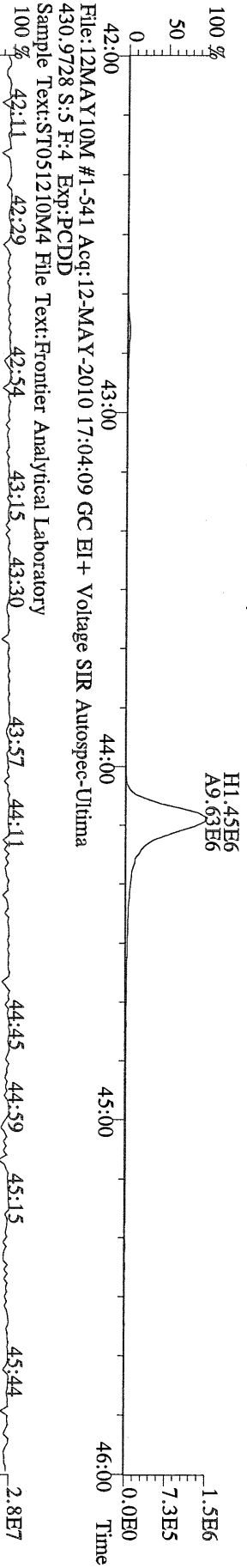
File:12MAY10M #1-541 Acq:12-MAY-2010 17:04:09 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory
100 %



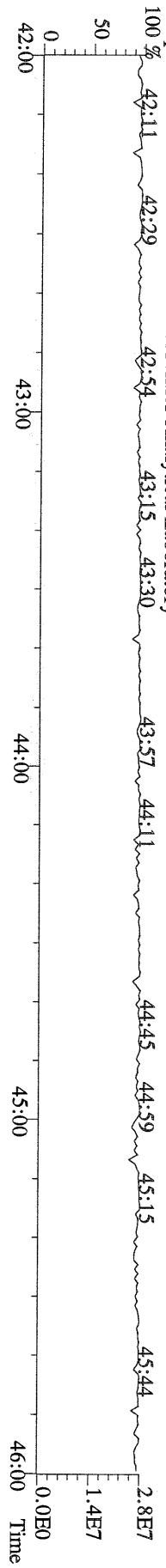
File:12MAY10M #1-541 Acq:12-MAY-2010 17:04:09 GC EI+ Voltage SIR Autospec-Utima
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory
100 %



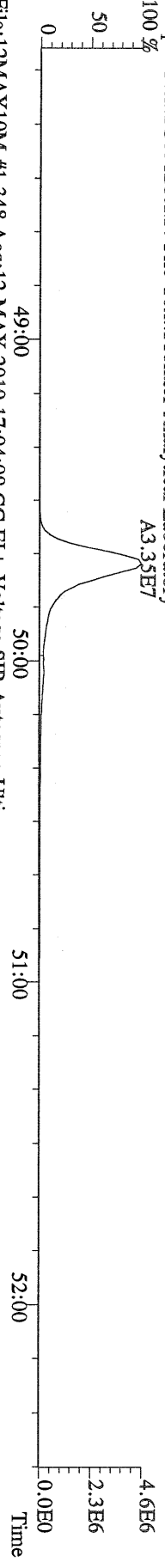
File:12MAY10M #1-541 Acq:12-MAY-2010 17:04:09 GC EI+ Voltage SIR Autospec-Utima
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



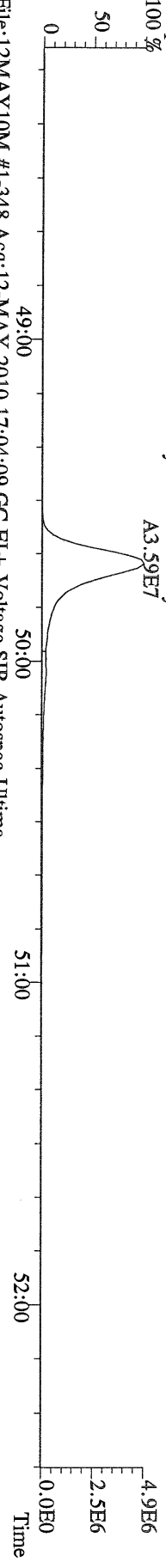
File:12MAY10M #1-541 Acq:12-MAY-2010 17:04:09 GC EI+ Voltage SIR Autospec-Utima
430.9728 S:5 F:4 Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



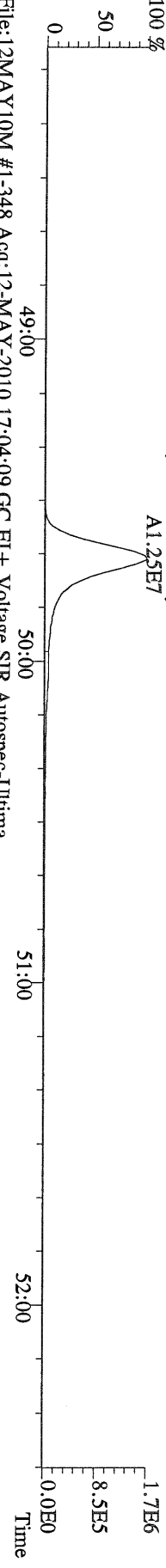
File:12MAY10M #1-348 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Utima
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



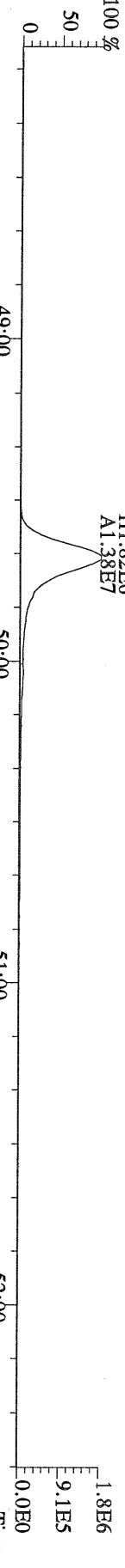
File:12MAY10M #1-348 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Utima
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



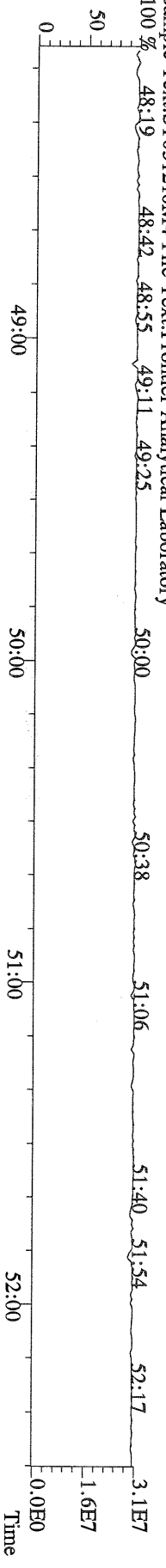
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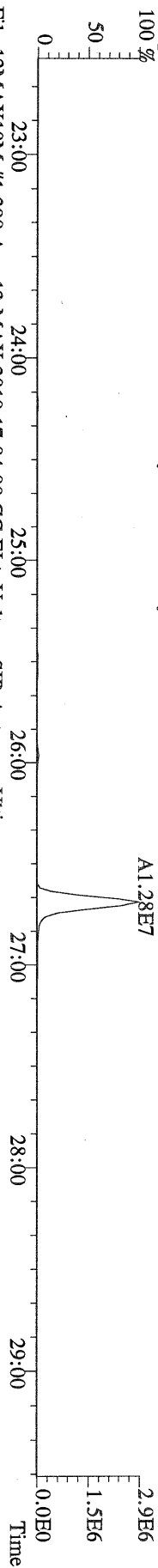
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Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



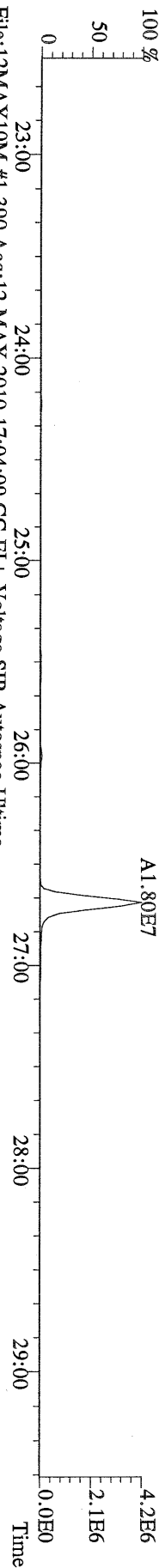
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454.9728 S:5 F:5 Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



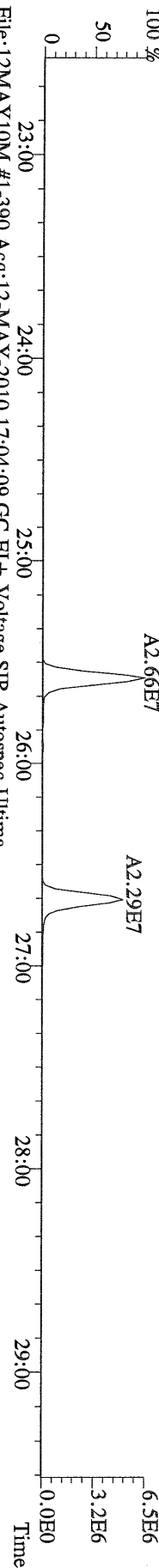
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303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



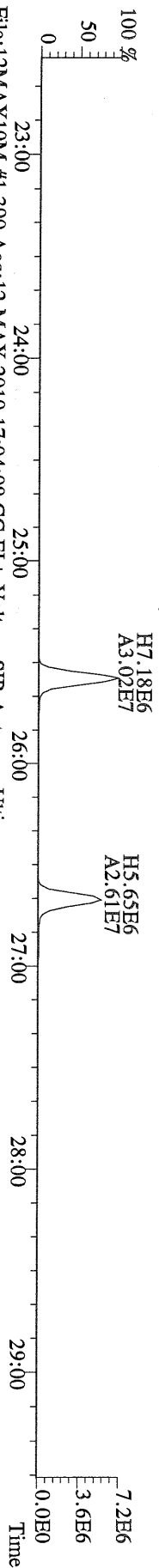
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305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



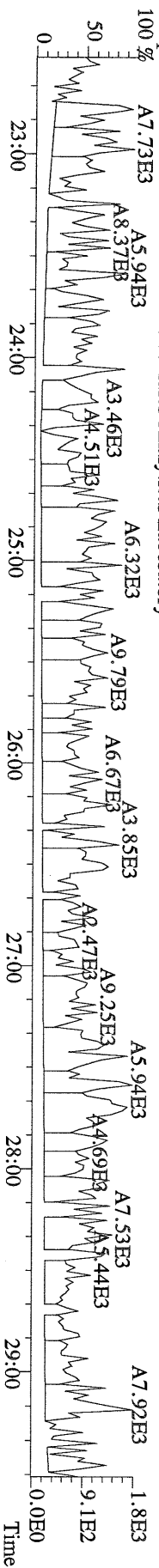
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315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



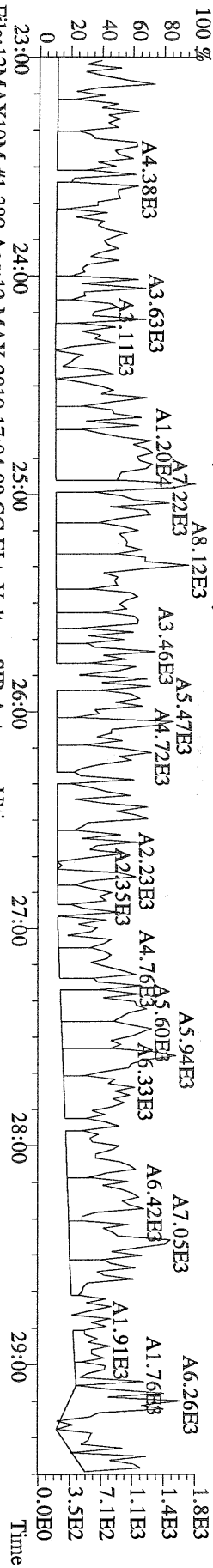
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317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



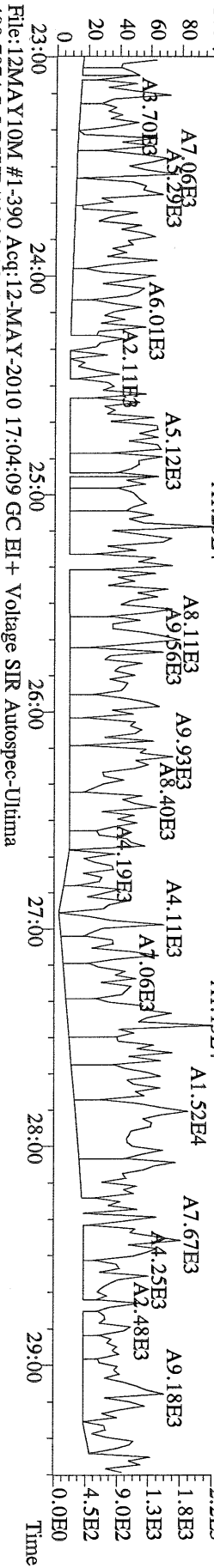
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375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



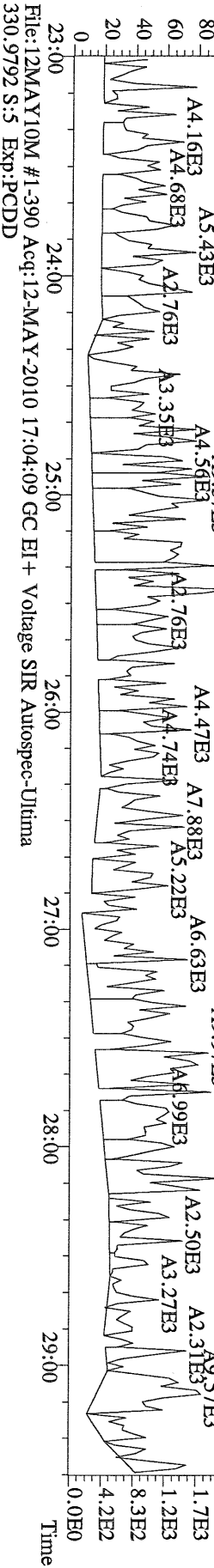
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 339.8597 S.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



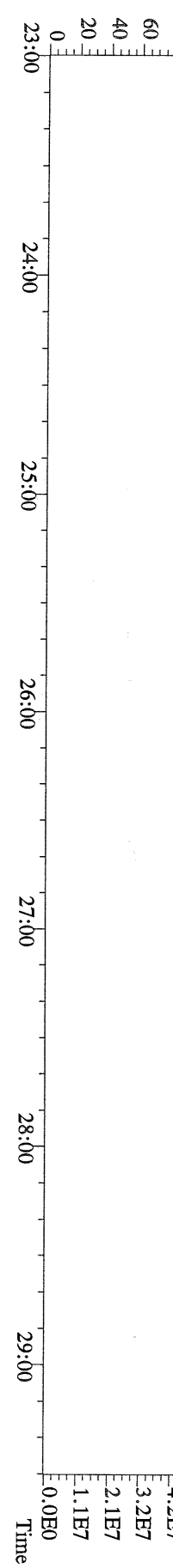
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 341.8568 S.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



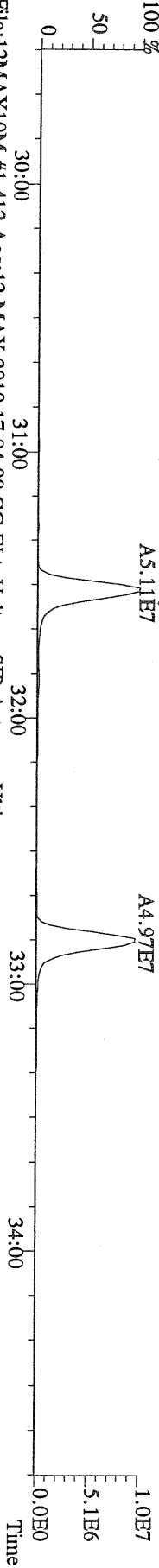
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 409.7974 S.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



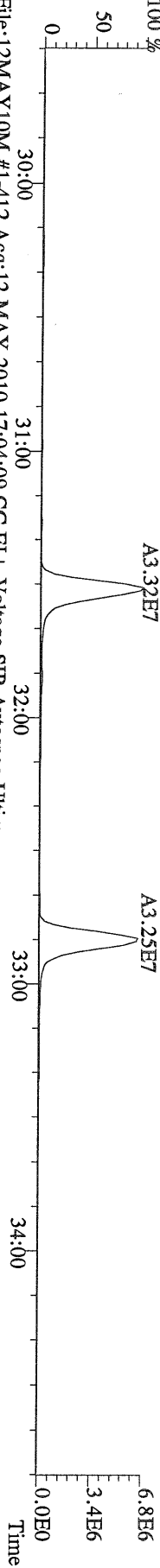
File:12MAY10M #1-390 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Utima
 330.9792 S.5 Exp:PCDD
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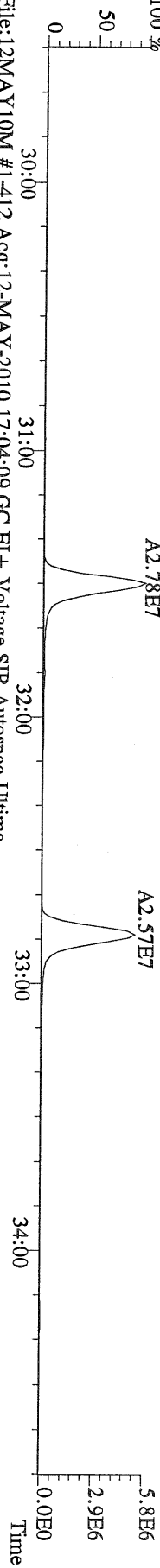
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 339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



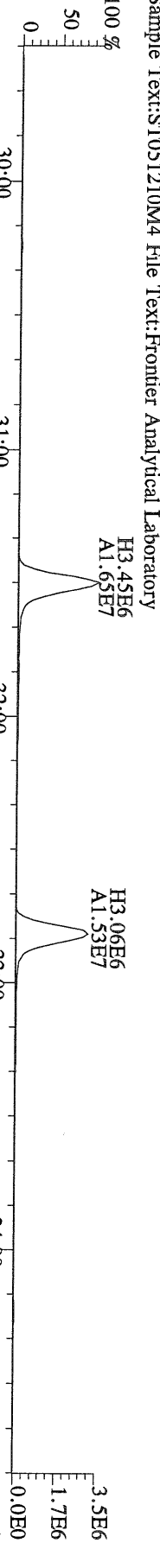
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 341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



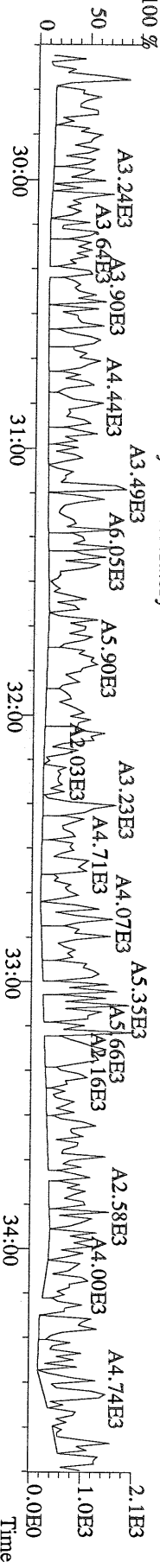
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 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



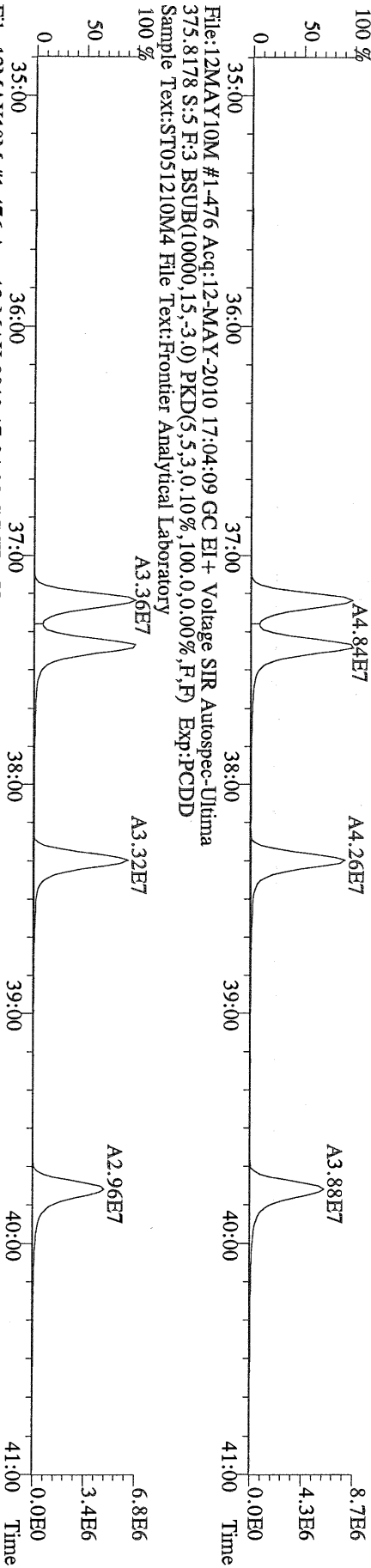
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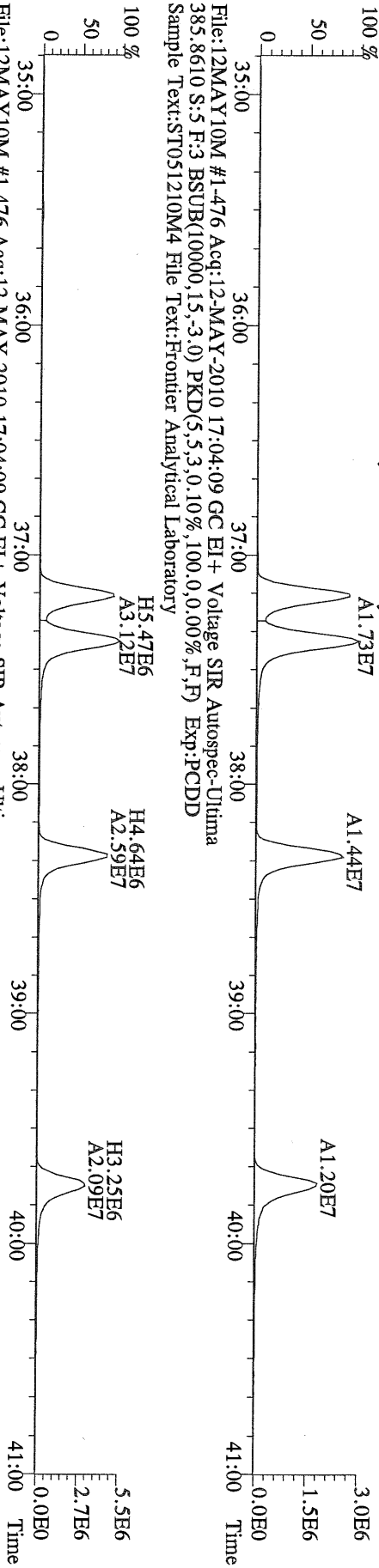
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 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



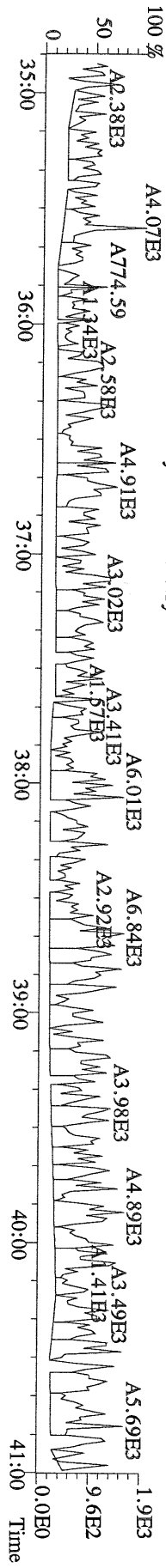
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 373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



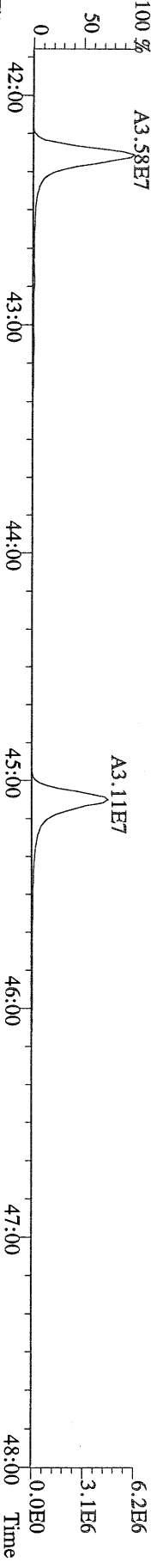
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 383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



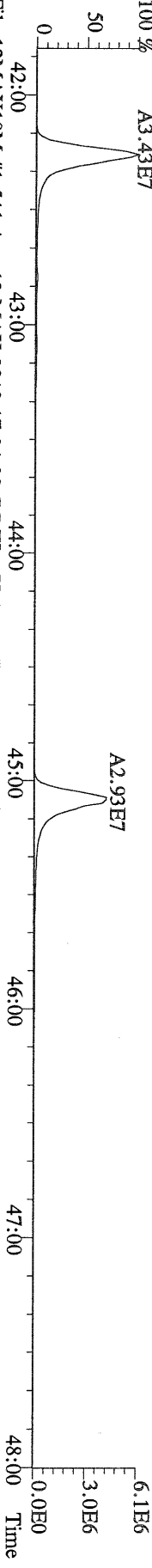
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 445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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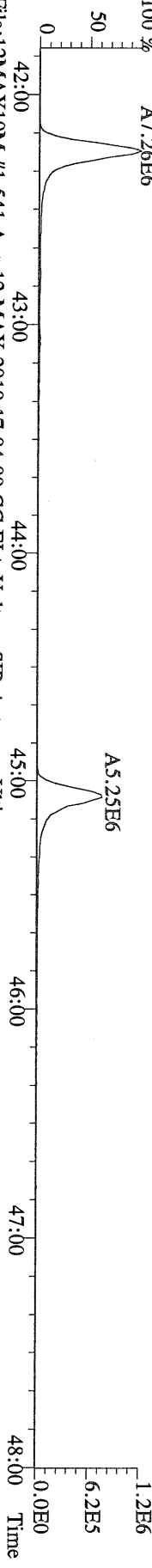
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407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



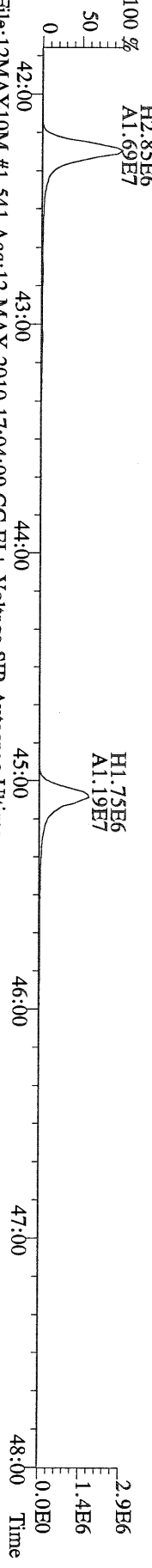
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409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



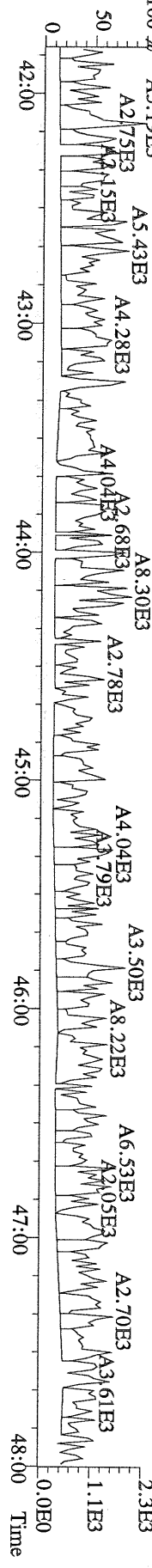
File:12MAY10M #1-541 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Utima
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



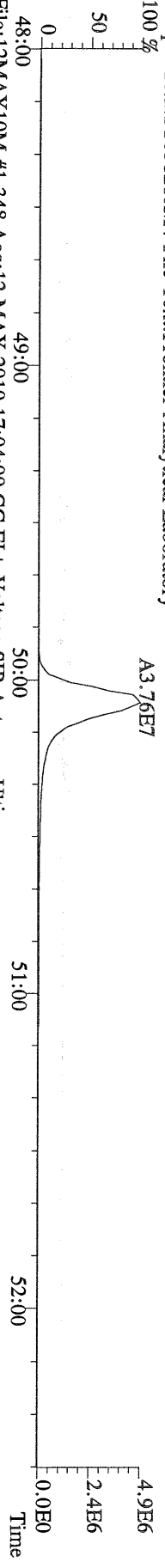
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419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



File:12MAY10M #1-541 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Utima
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



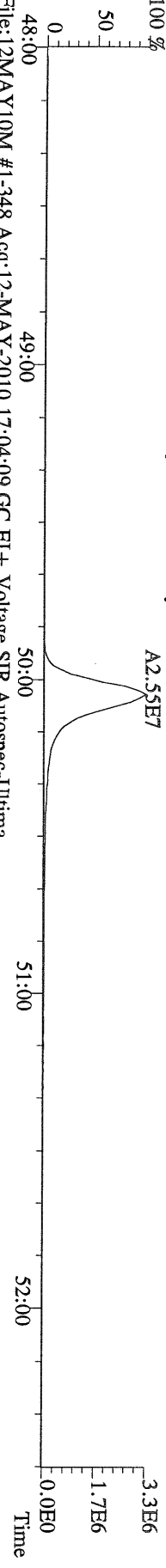
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441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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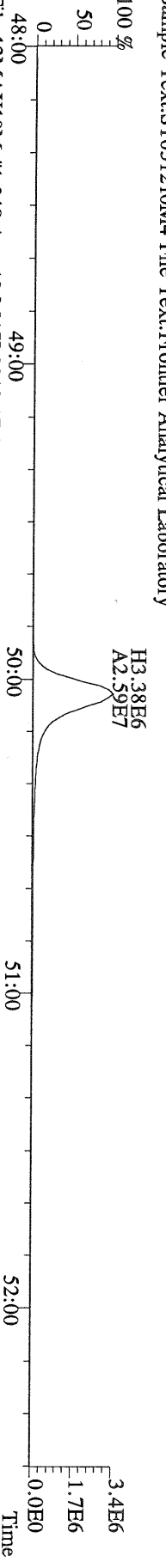
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443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



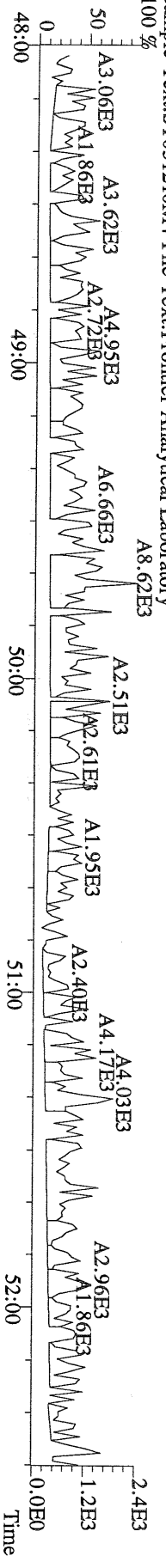
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453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



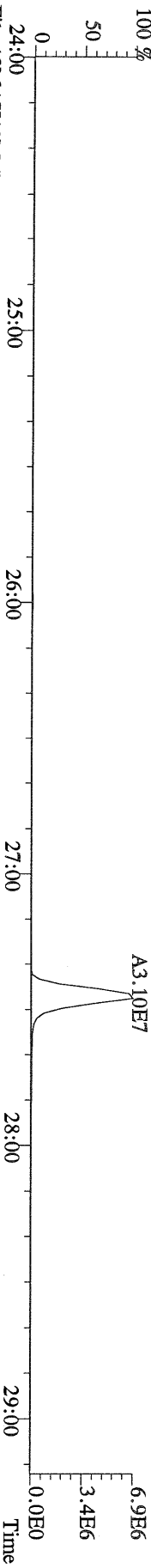
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455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



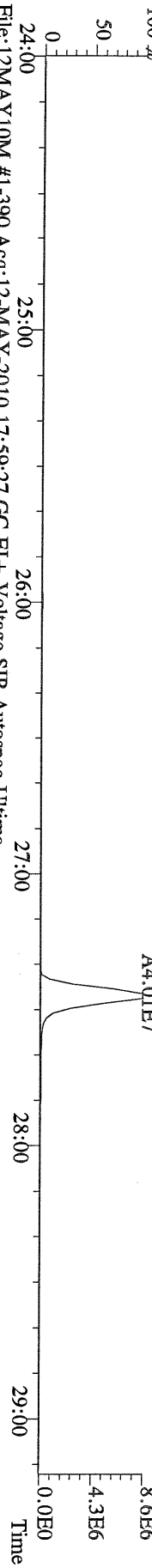
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513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



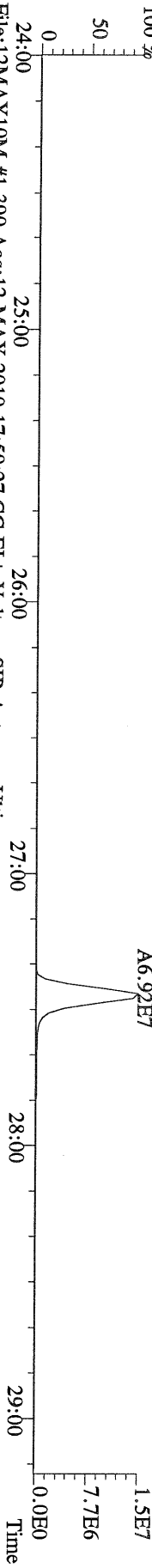
File:12MAY10M #1-390 Acq:12-MAY-2010 17:59:27 GC EI + Voltage SIR Autospec-Utima
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



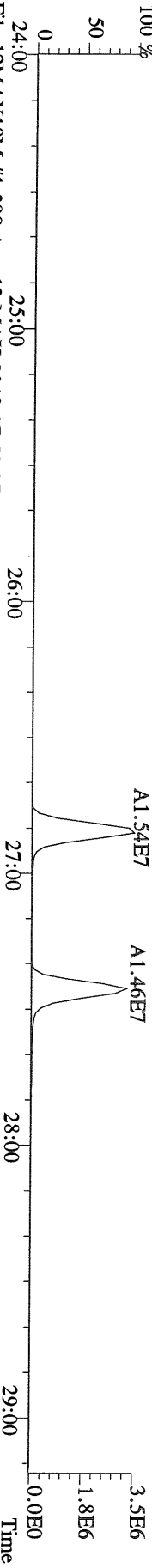
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321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



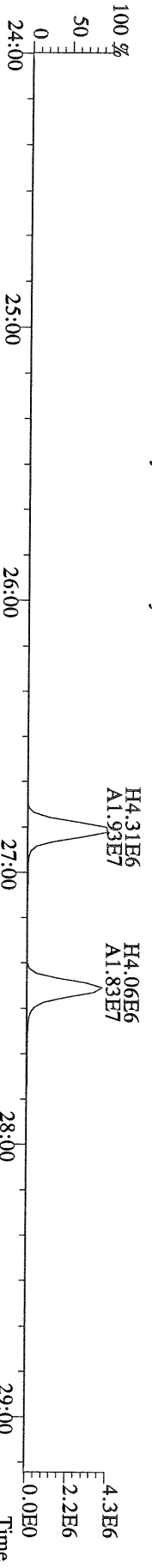
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327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



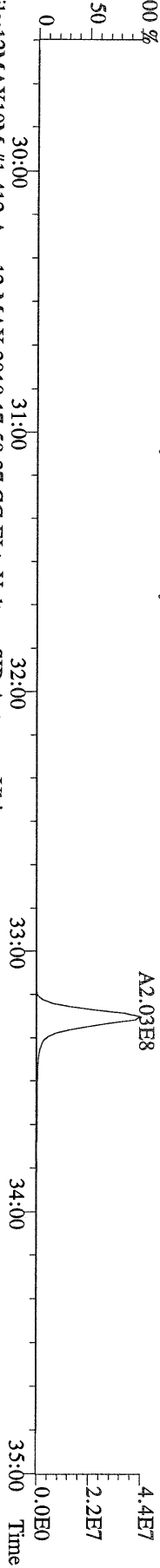
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331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



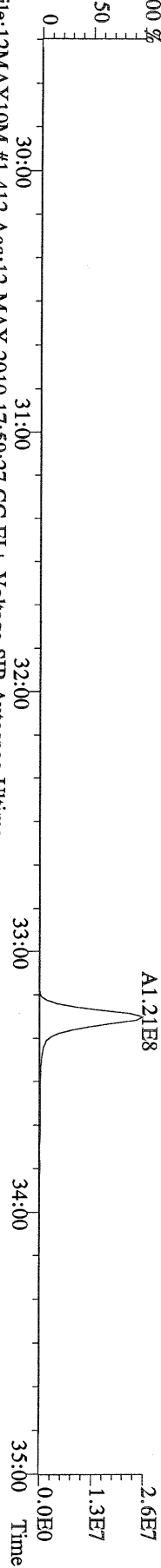
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333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



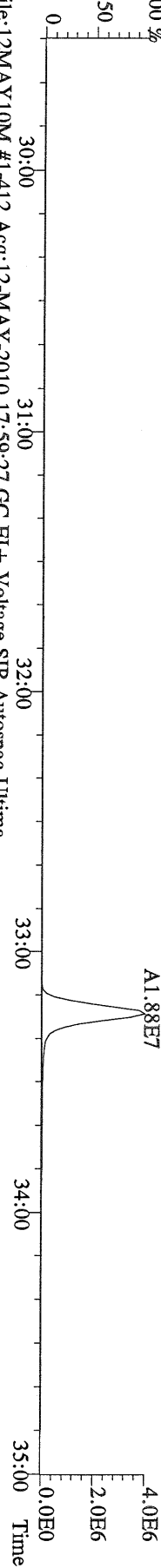
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355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Fronter Analytical Laboratory



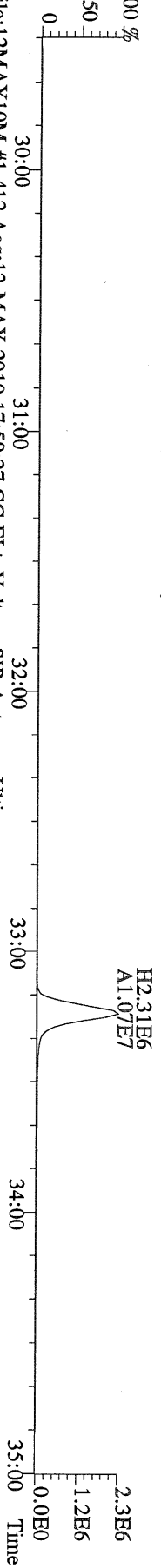
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357.8517 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Fronter Analytical Laboratory



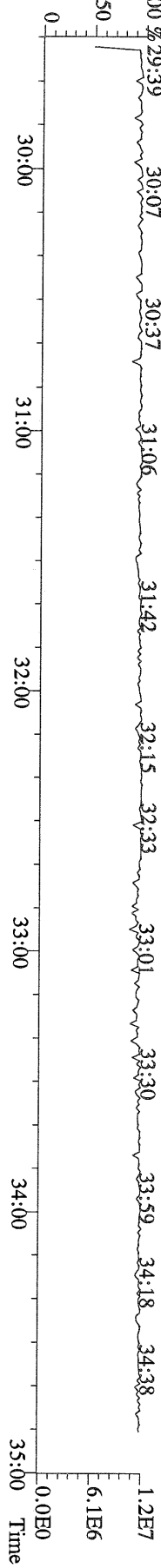
File:12MAY10M #1-412 Acq:12-MAY-2010 17:59:27 GC EI + Voltage SIR Autospec-Utima
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Fronter Analytical Laboratory



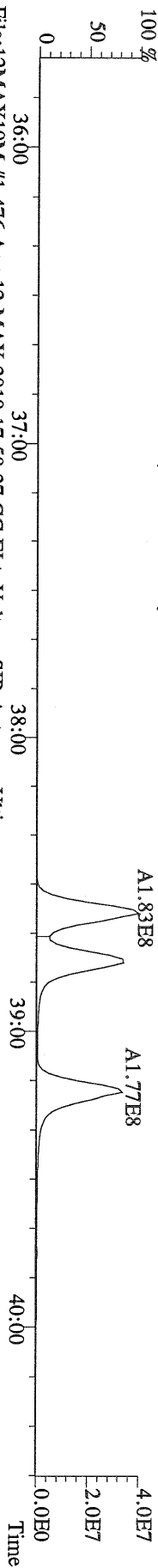
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369.8919 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Fronter Analytical Laboratory



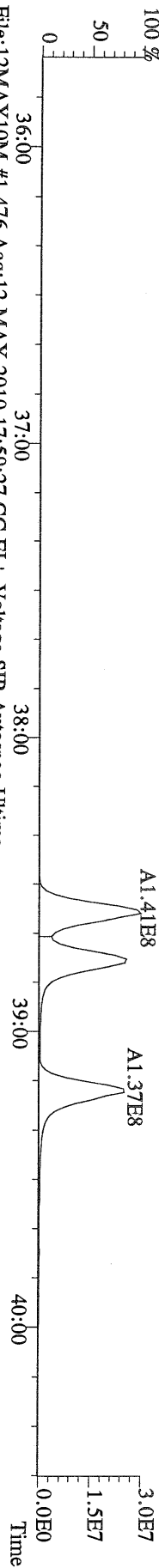
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366.9792 S:6 F:2 Exp:PCDD
Sample Text:ST051210M5 File Text:Fronter Analytical Laboratory



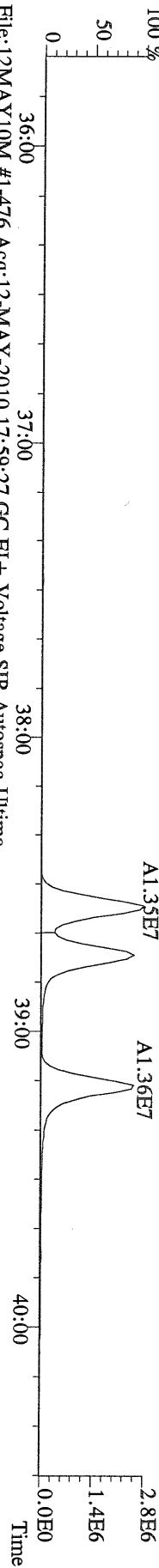
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389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



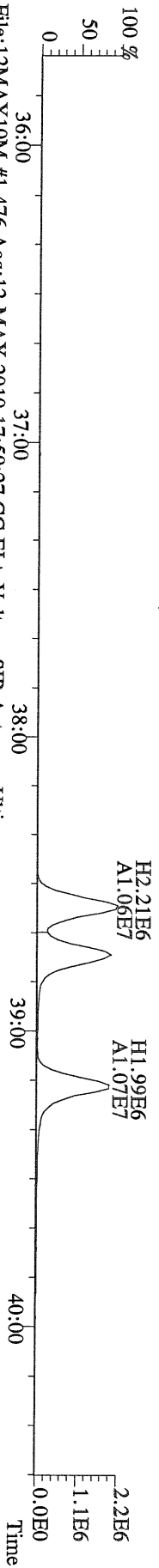
File:12MAY10M #1-476 Acq:12-MAY-2010 17:59:27 GC EI + Voltage SIR Autospec-Ultima
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



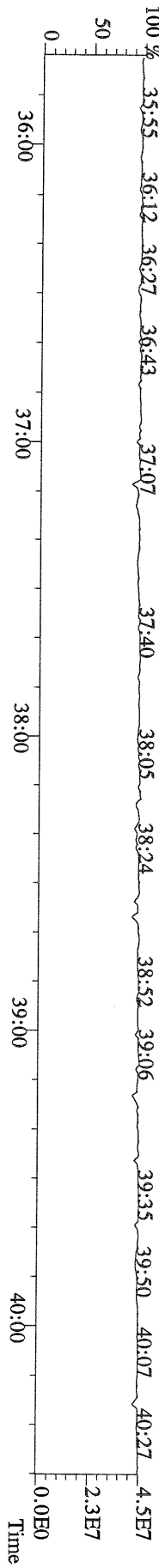
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401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



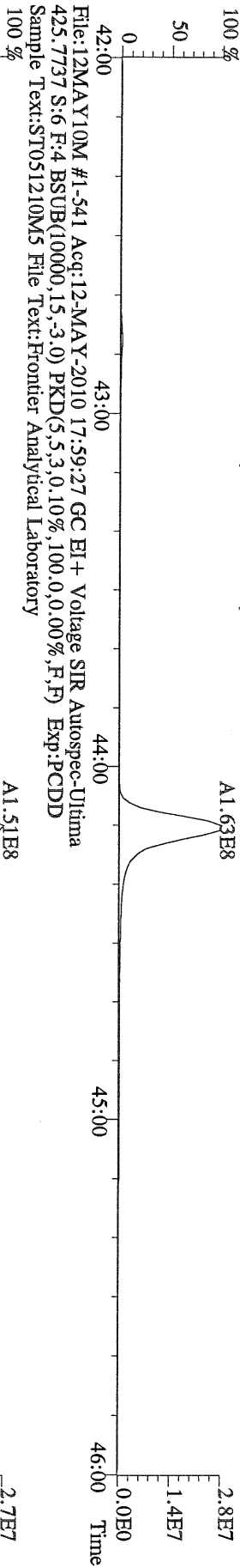
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403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



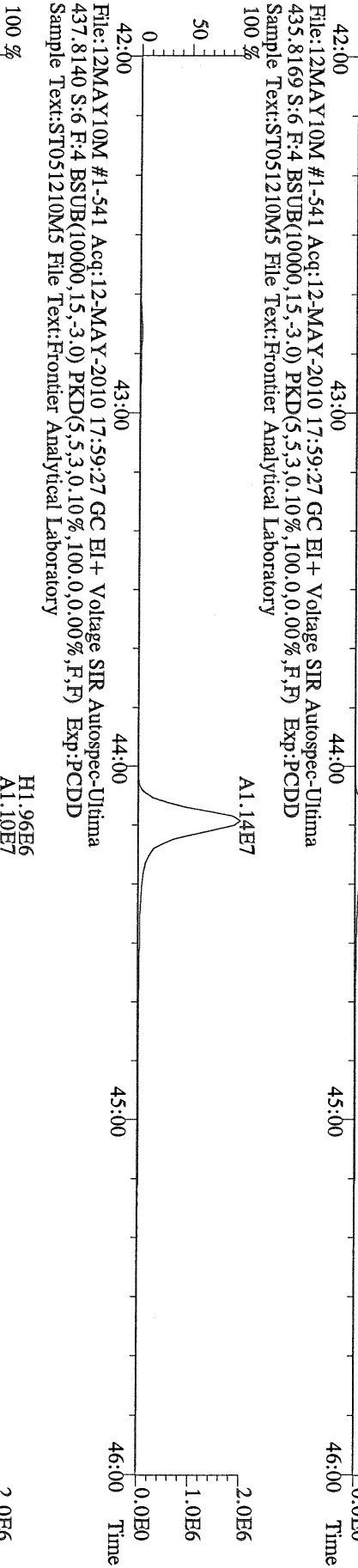
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380.9760 S:6 F:3 Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



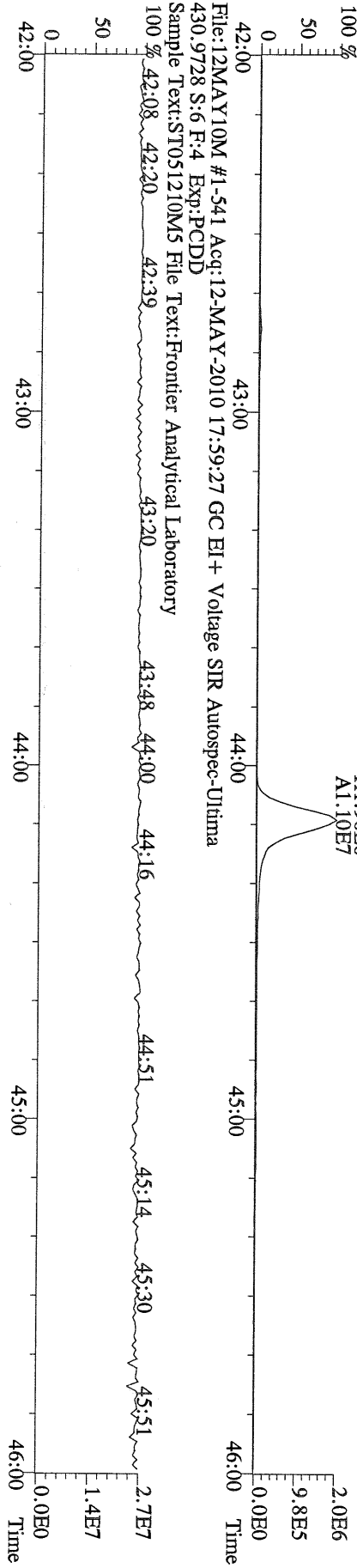
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423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



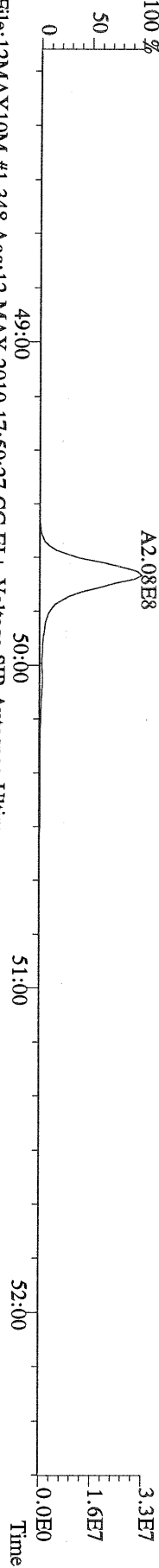
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435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



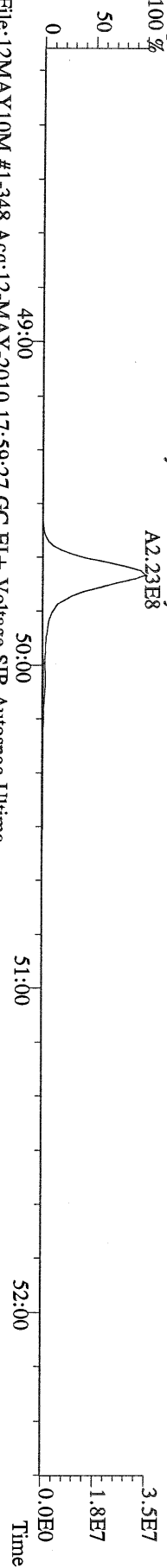
File:12MAY10M #1-541 Acq:12-MAY-2010 17:59:27 GC EI + Voltage SIR Autospec-Utima
430.9728 S:6 F:4 Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



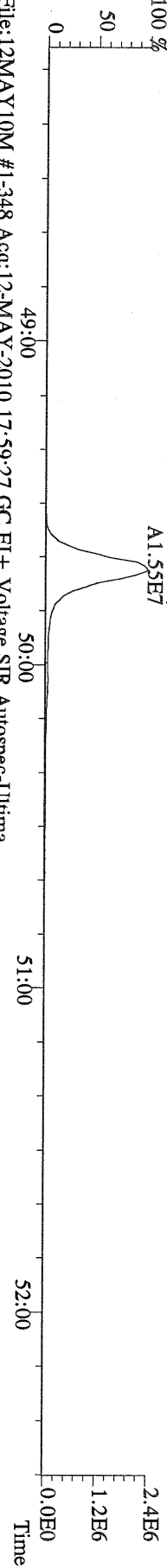
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457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



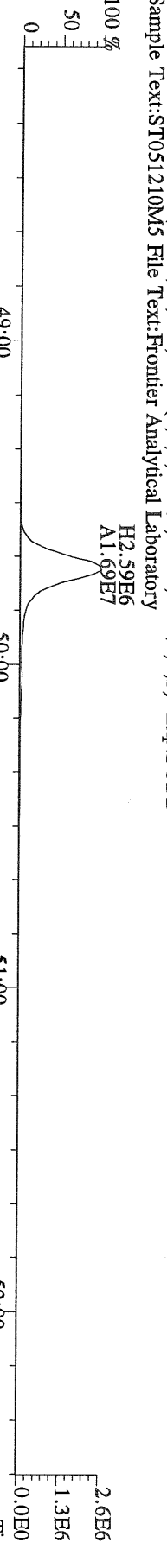
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459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



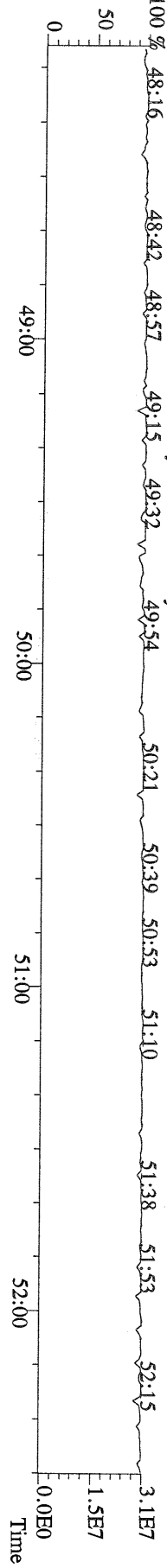
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469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



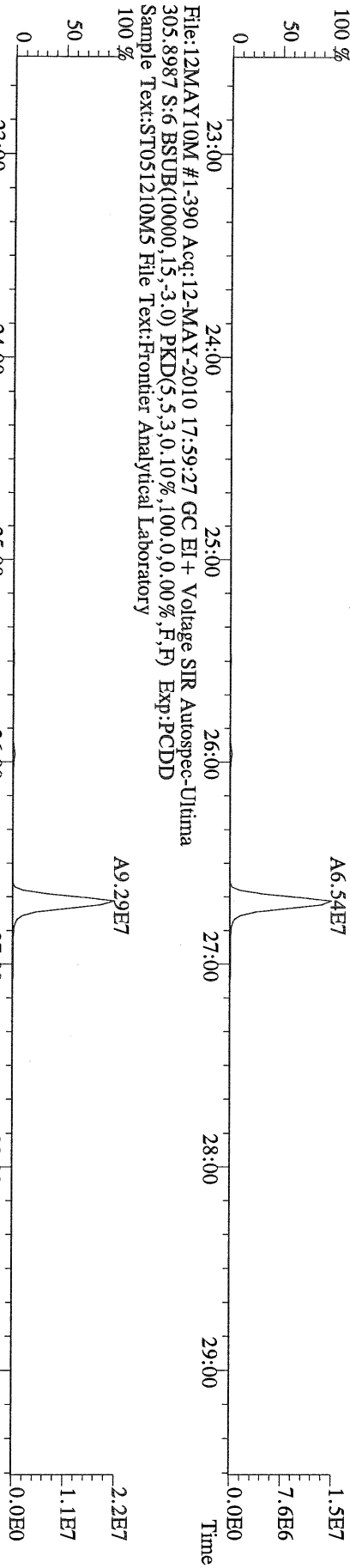
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471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



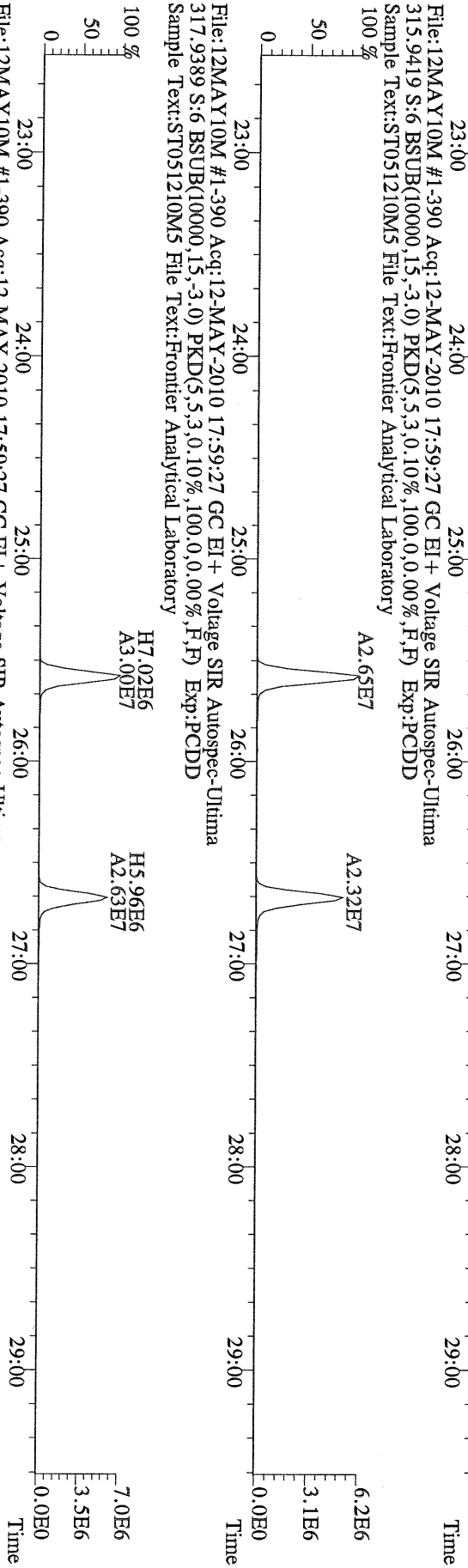
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454.9728 S:6 F:5 Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



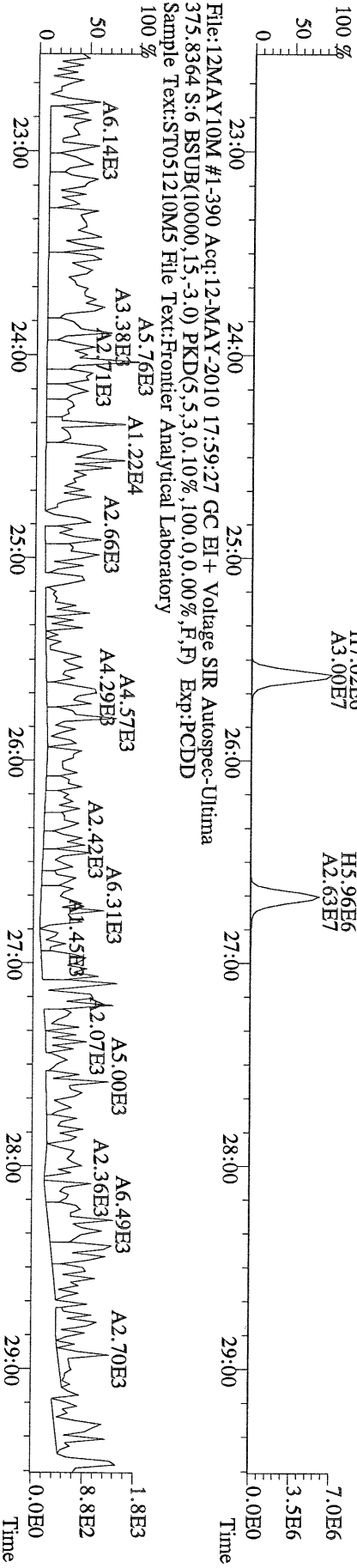
File:12MAY10M #1-390 Acq:12-MAY-2010 17:59:27 GC EI + Voltage SIR Autospec-Utima
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



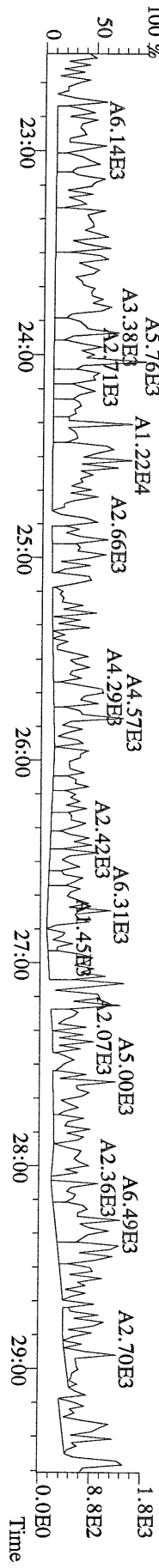
File:12MAY10M #1-390 Acq:12-MAY-2010 17:59:27 GC EI + Voltage SIR Autospec-Utima
315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



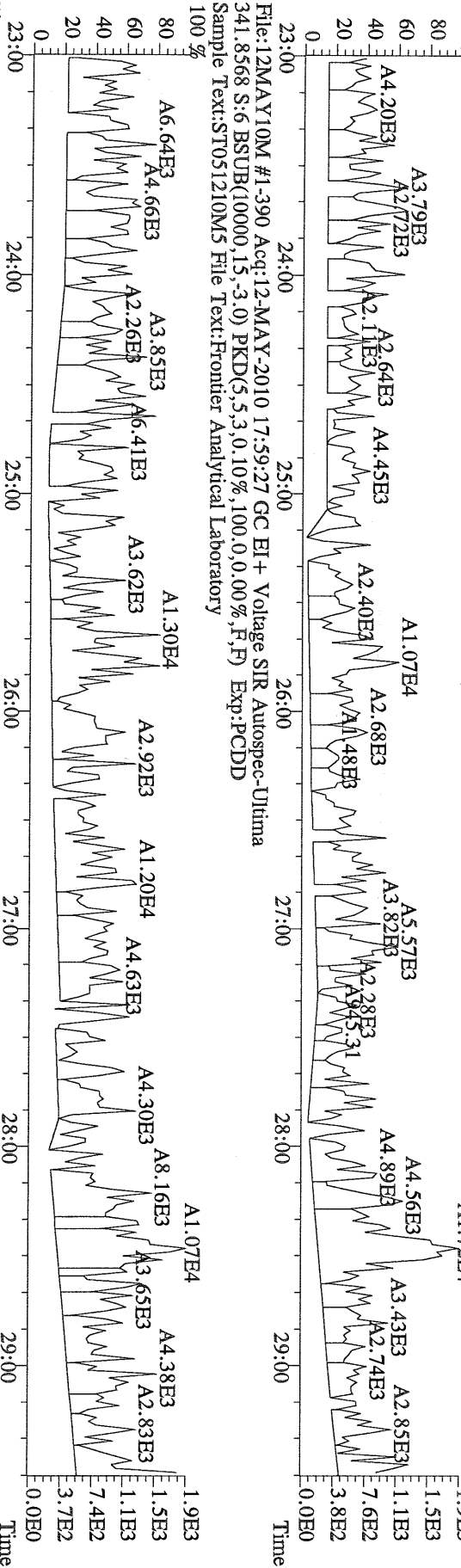
File:12MAY10M #1-390 Acq:12-MAY-2010 17:59:27 GC EI + Voltage SIR Autospec-Utima
317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



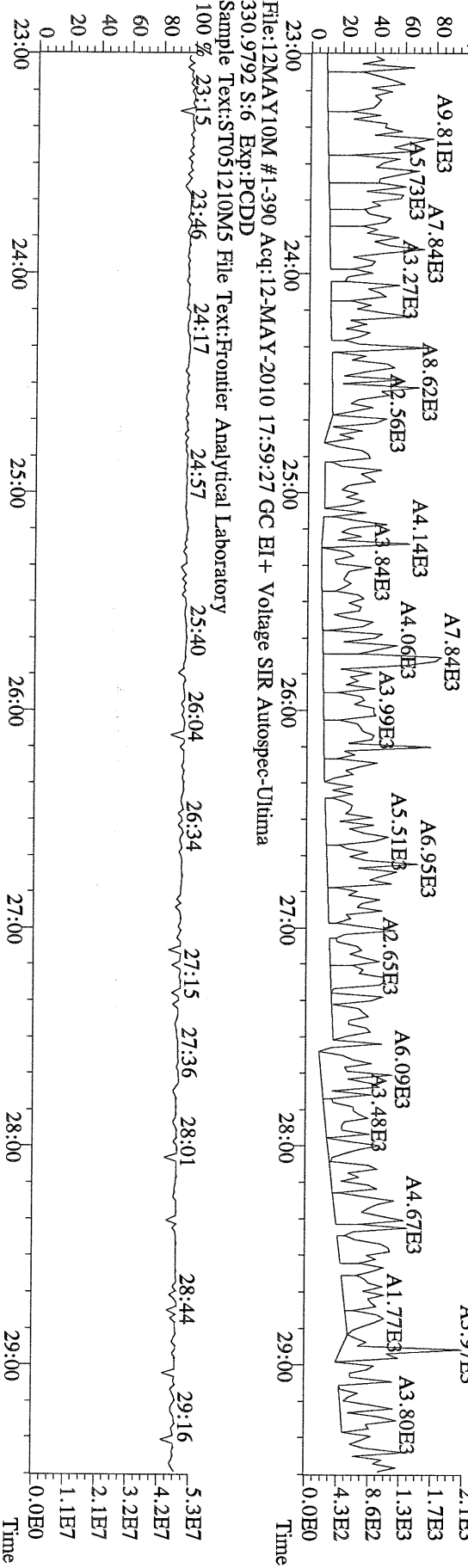
File:12MAY10M #1-390 Acq:12-MAY-2010 17:59:27 GC EI + Voltage SIR Autospec-Utima
375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



File:12MAY10M #1-390 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory

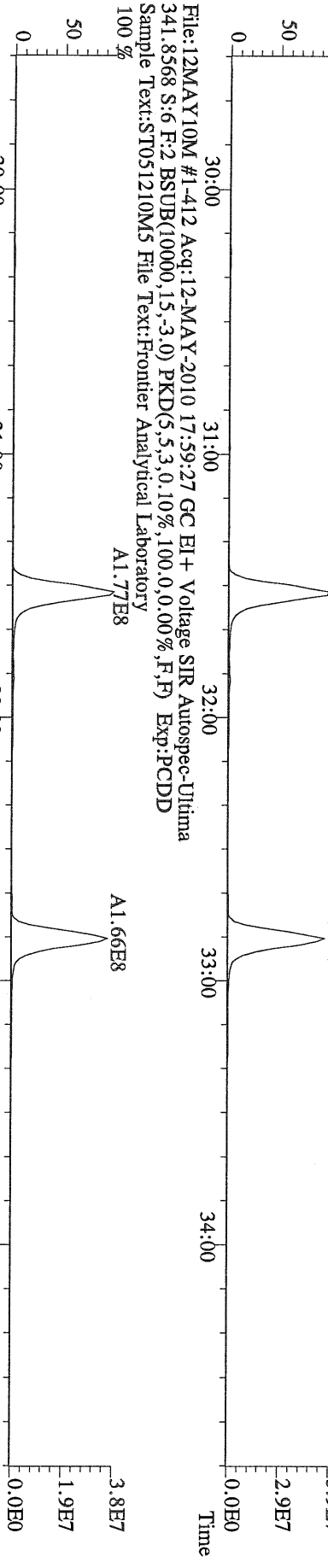


File:12MAY10M #1-390 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
 409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory

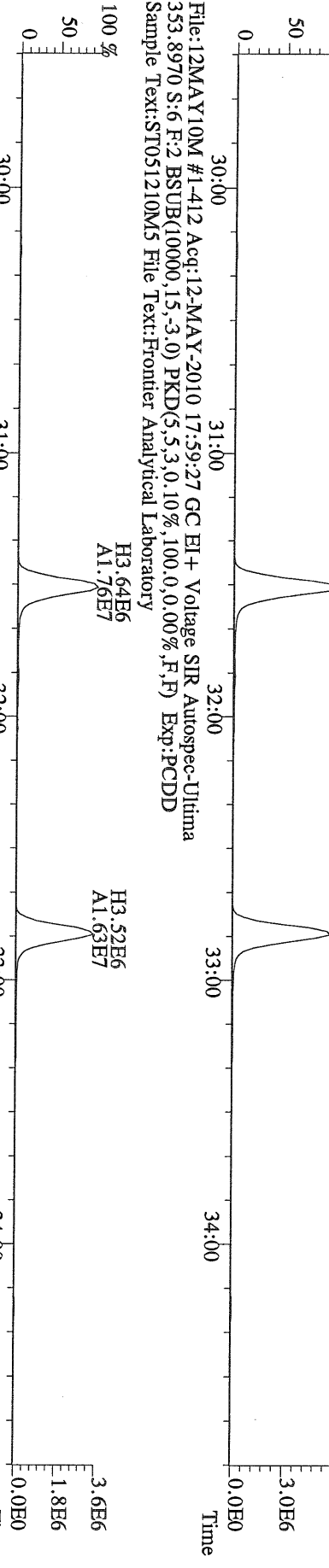


File:12MAY10M #1-390 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
 330.9792 S:6 Exp:PCDD
 Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory

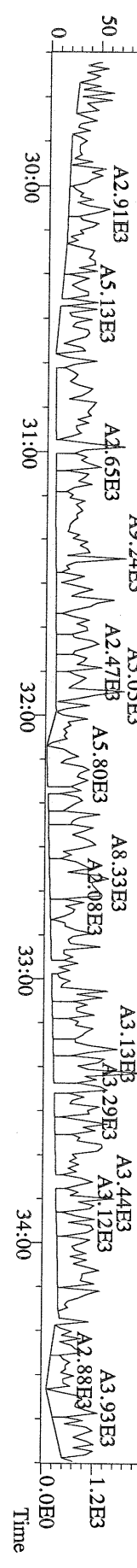
File:12MAY10M #1-412 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



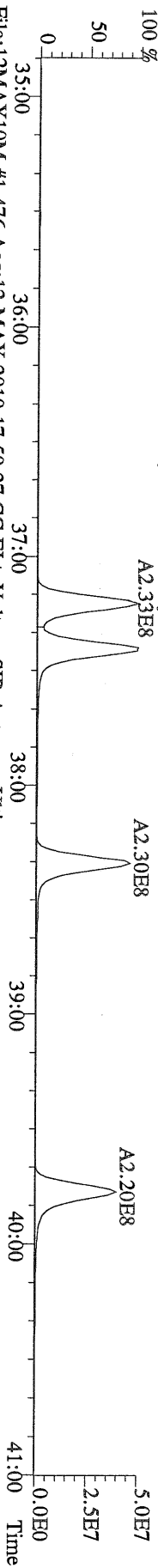
File:12MAY10M #1-412 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
 351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



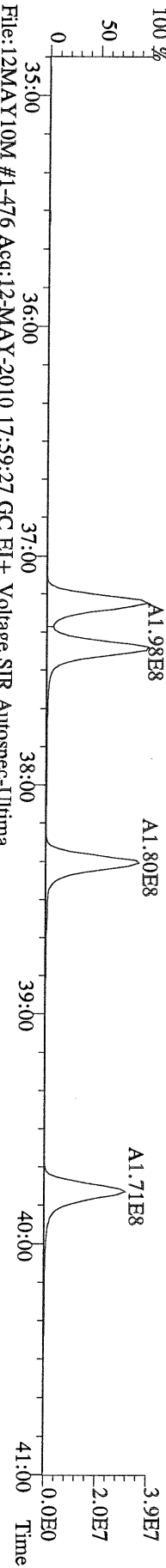
File:12MAY10M #1-412 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
 409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



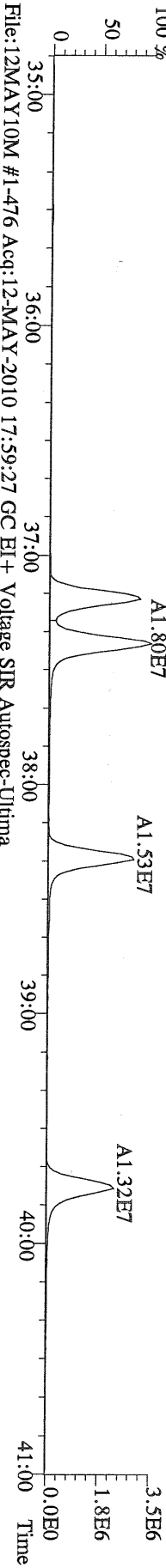
File:12MAY10M #1-476 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



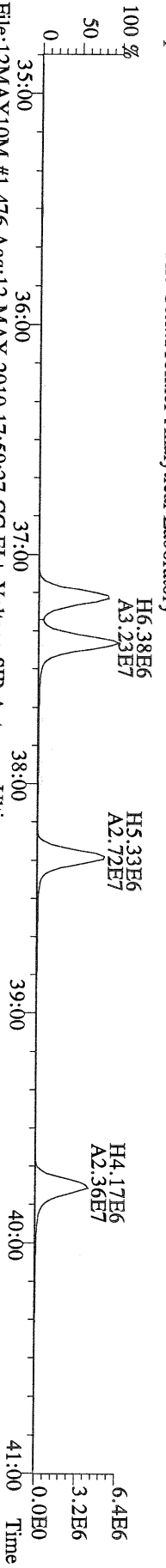
File:12MAY10M #1-476 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
 375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



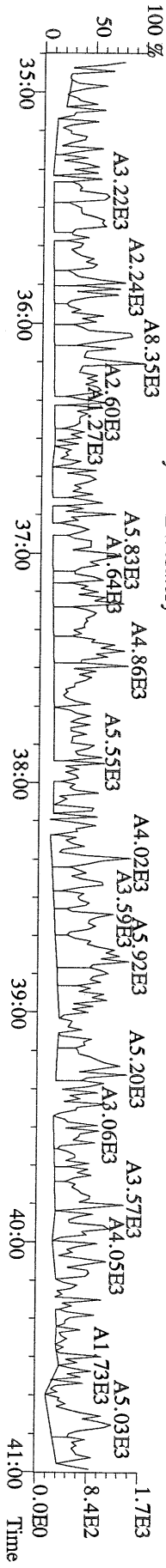
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 383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



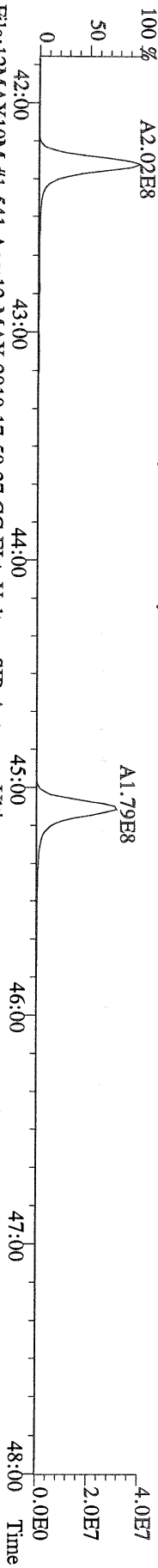
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 385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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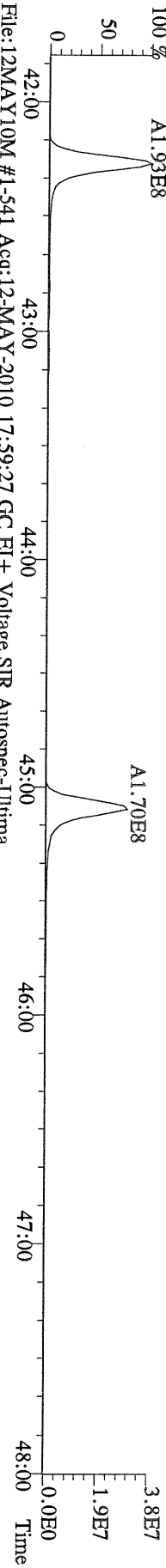
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 445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



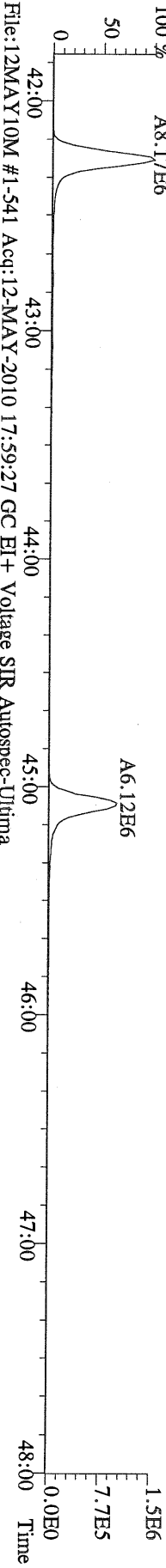
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407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



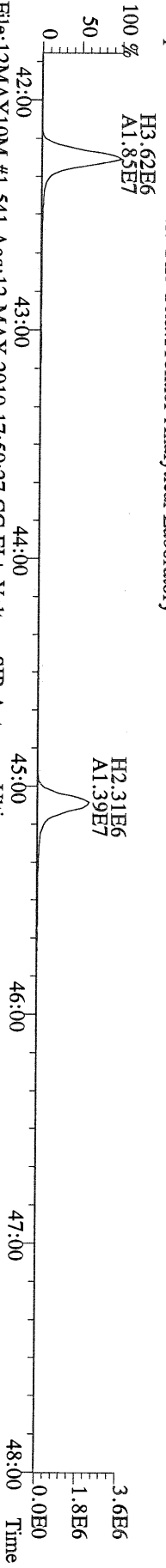
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409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



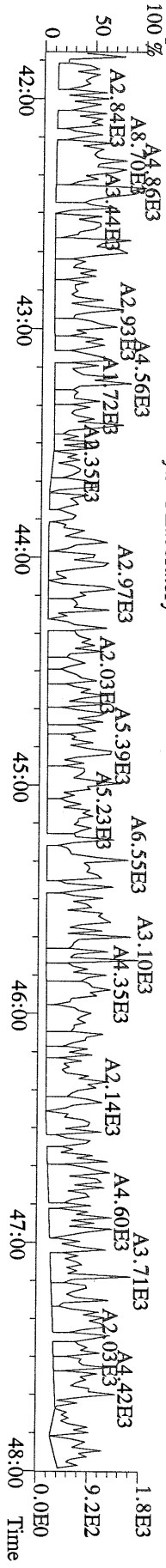
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417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



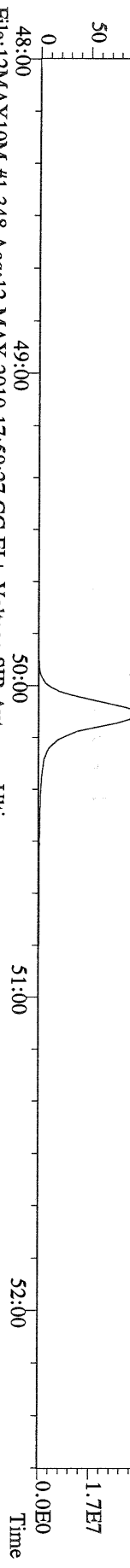
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419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



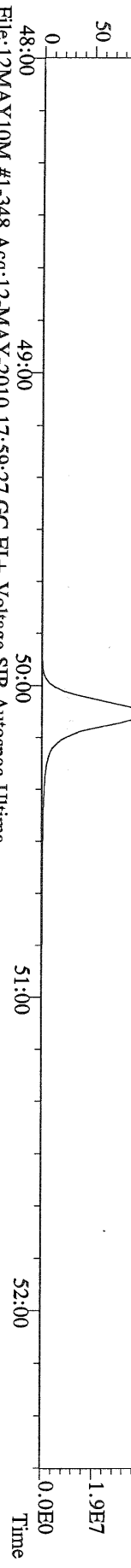
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479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



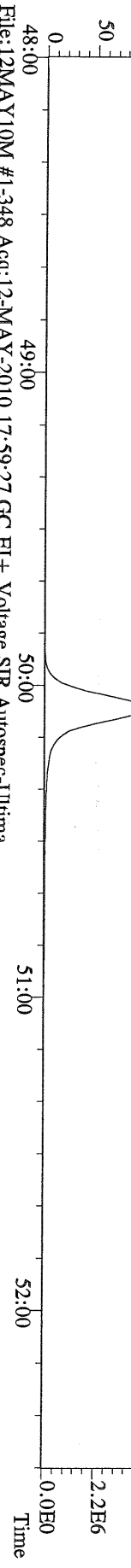
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441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



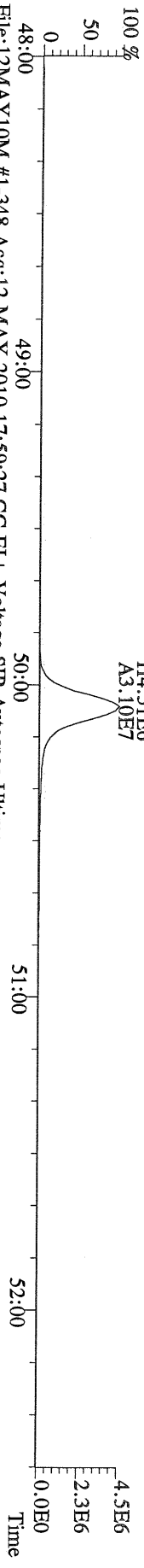
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443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



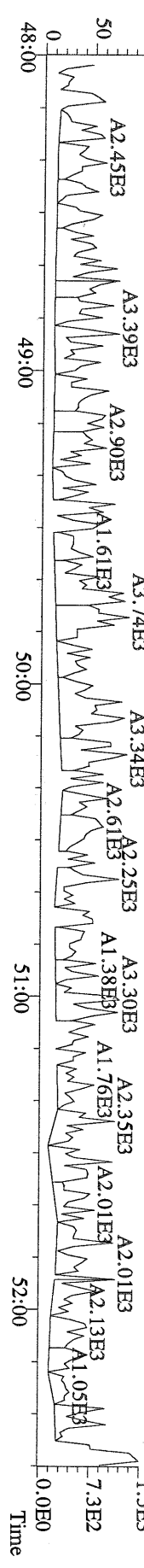
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453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory

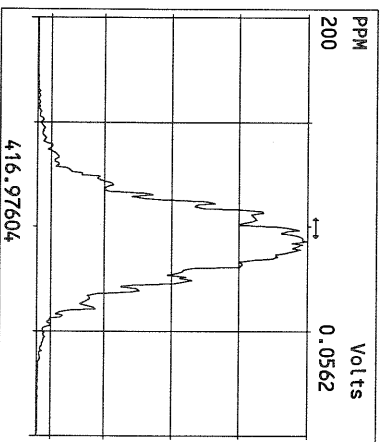
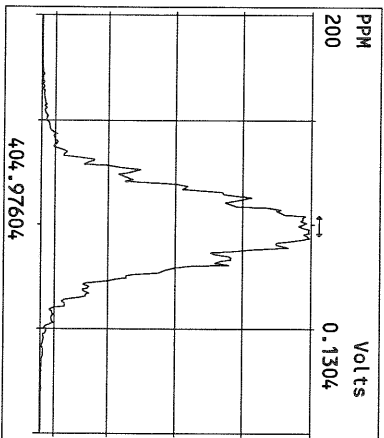
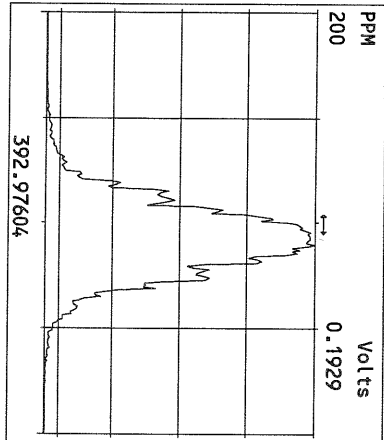
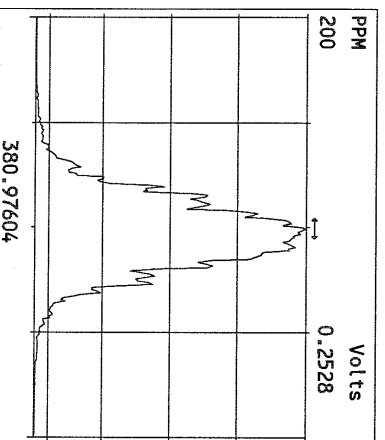
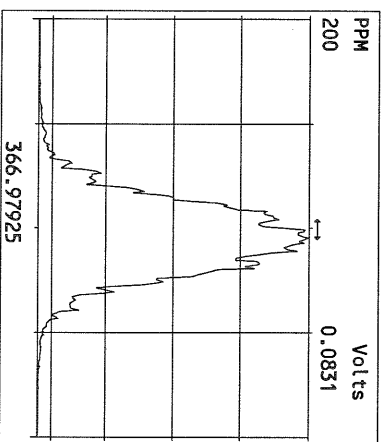
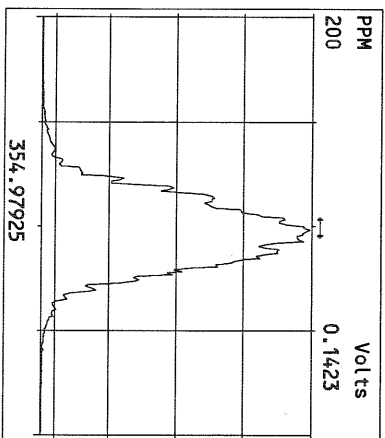
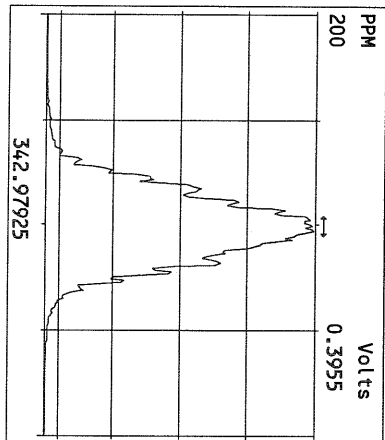
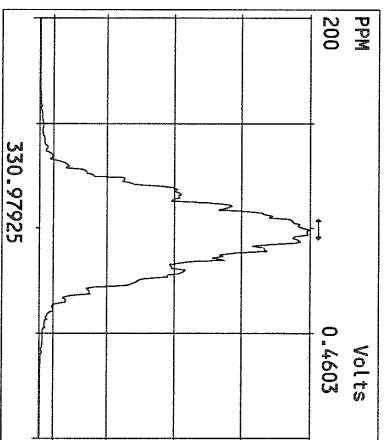
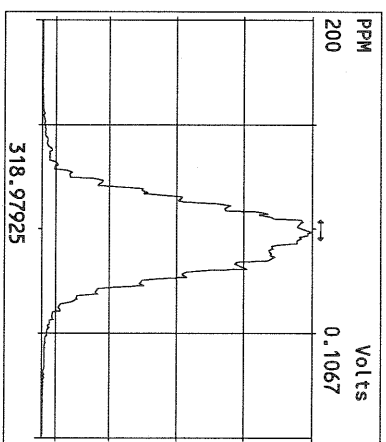
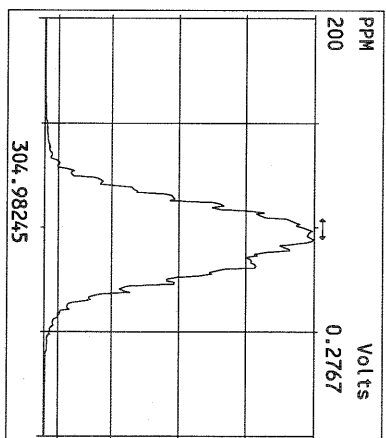
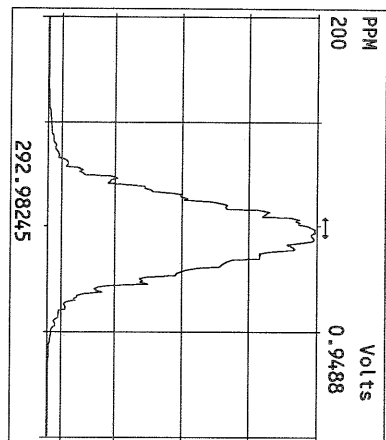


File:12MAY10M #1-348 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory

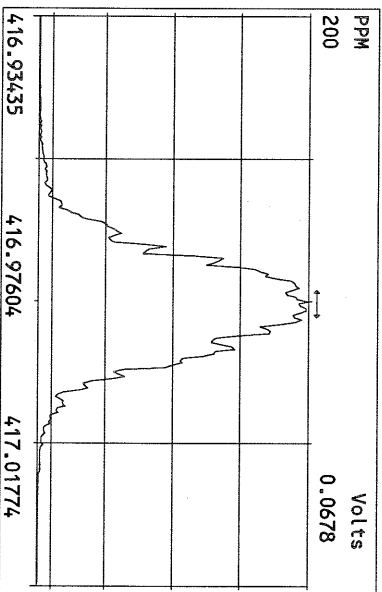
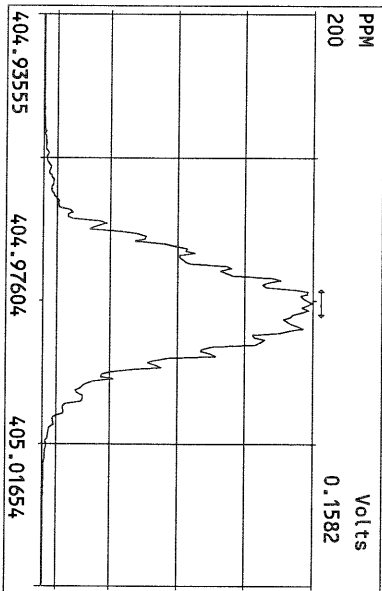
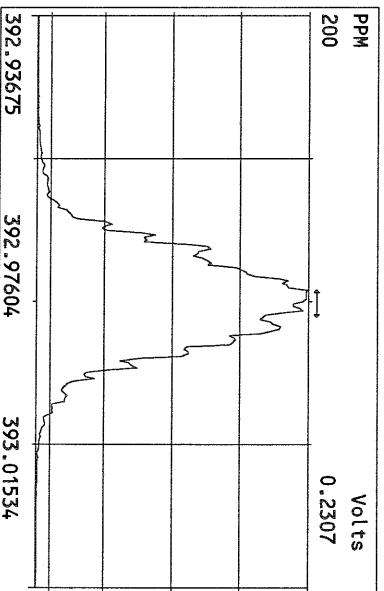
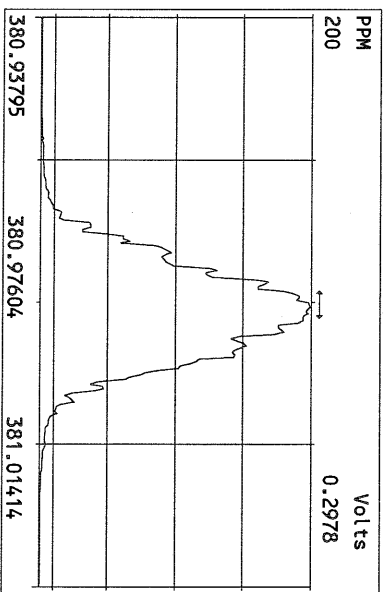
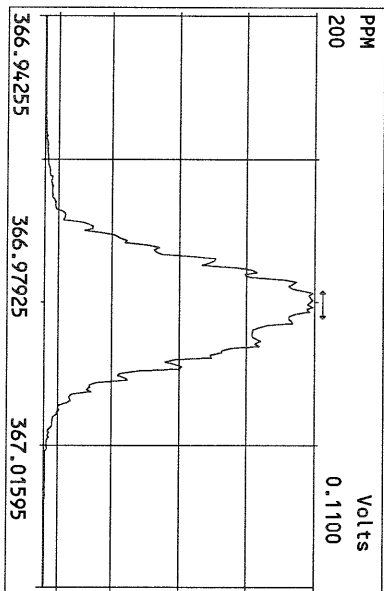
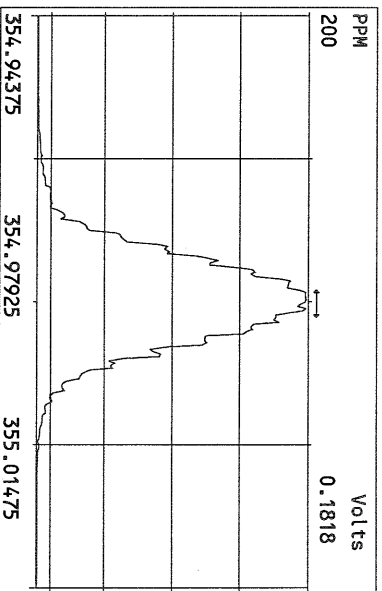
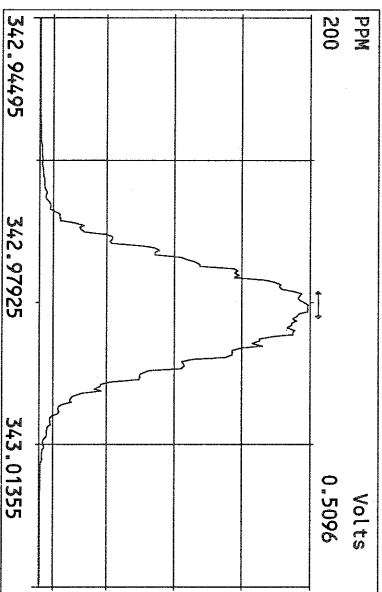
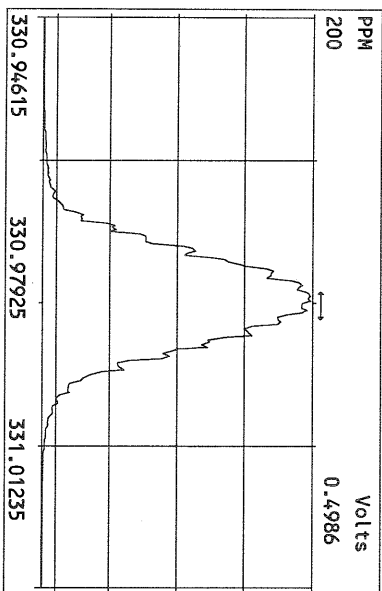


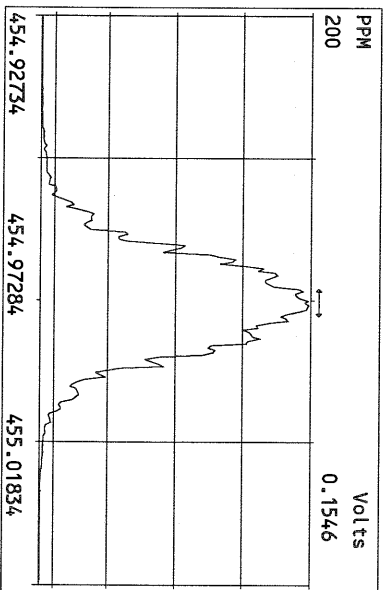
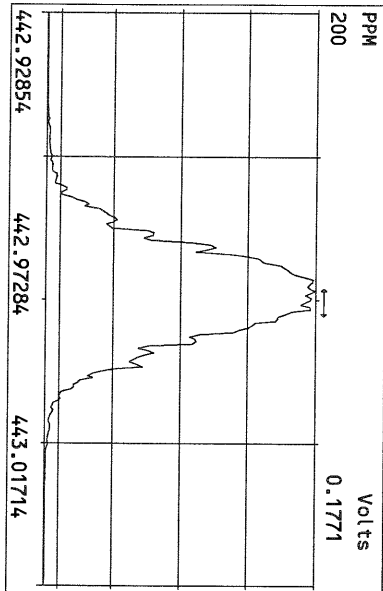
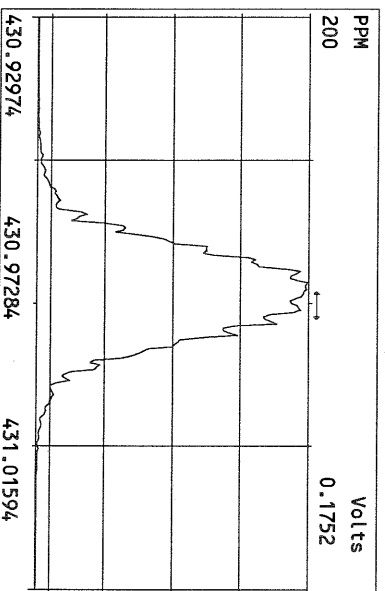
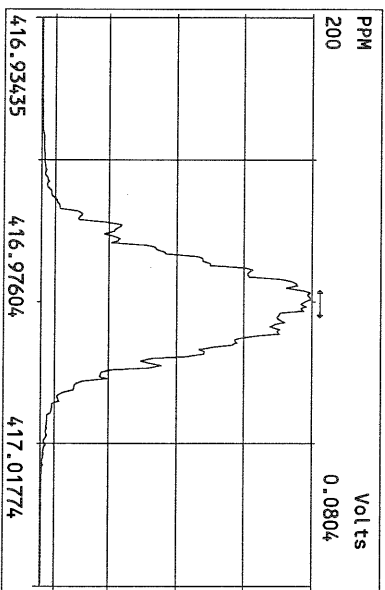
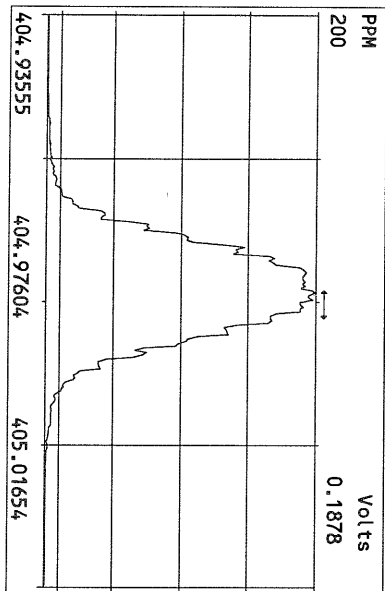
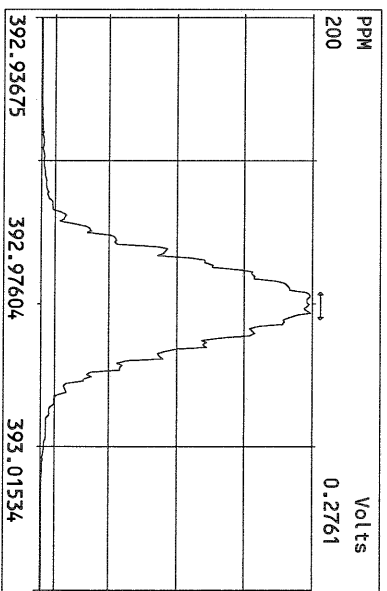
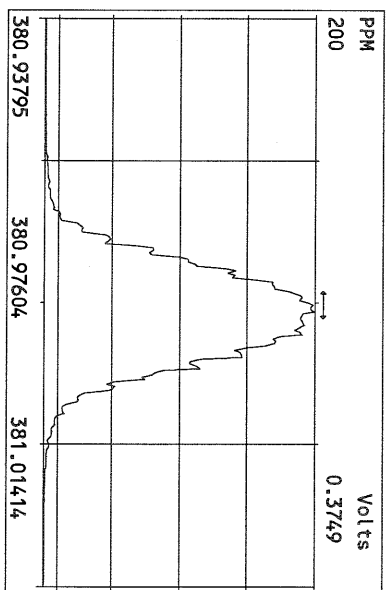
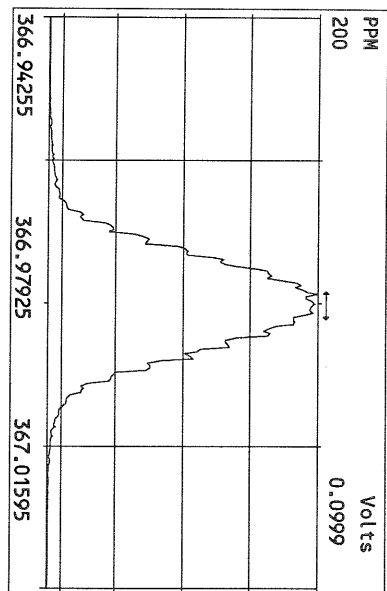
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Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory

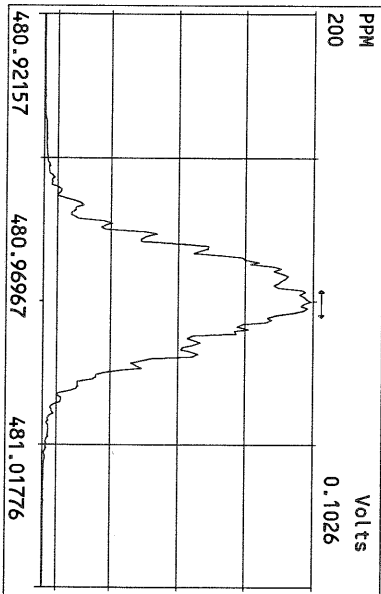
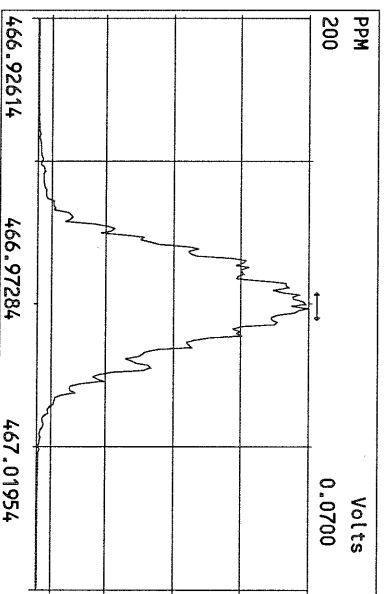
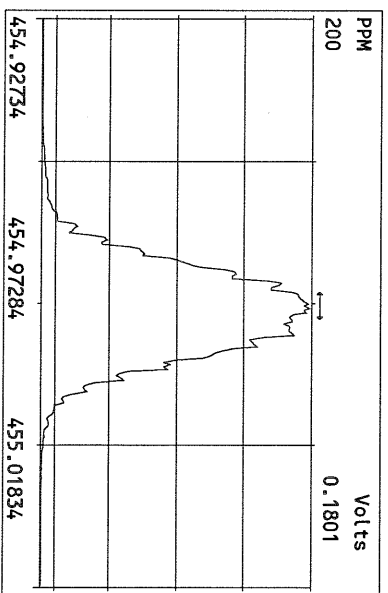
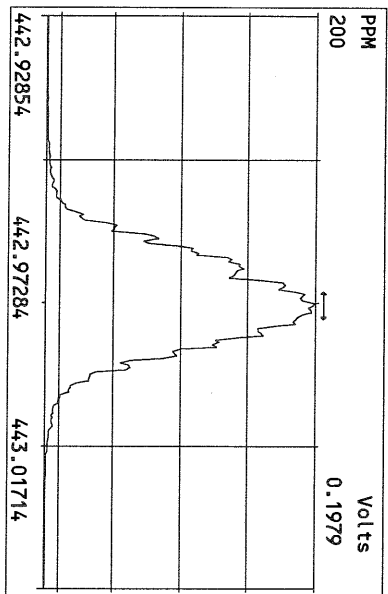
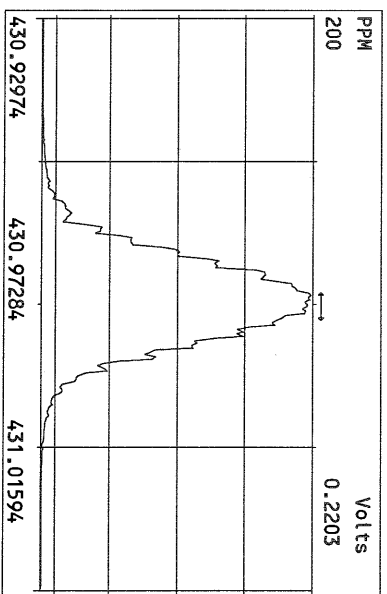
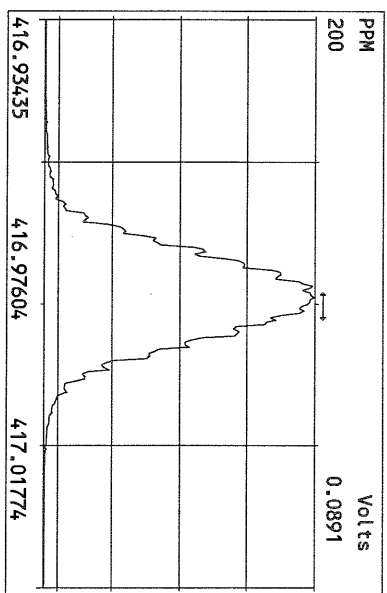
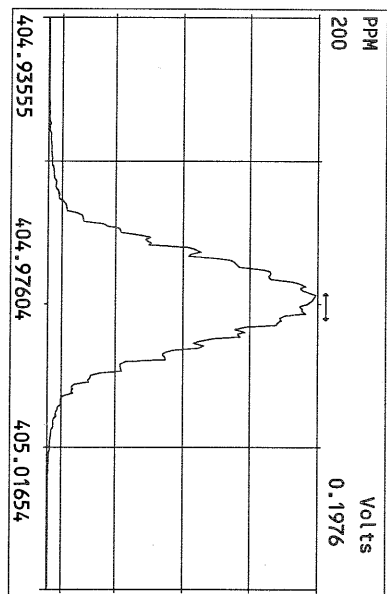


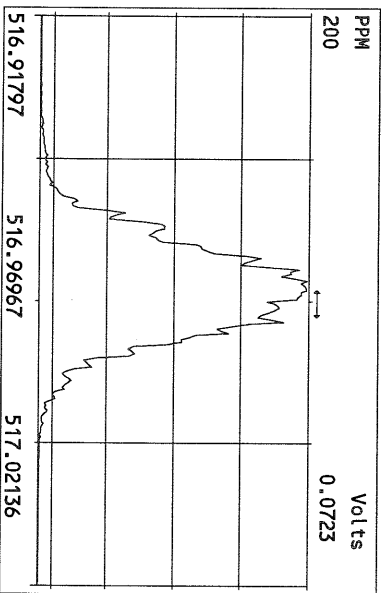
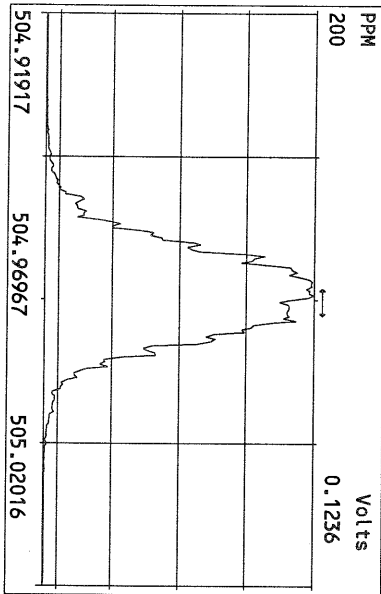
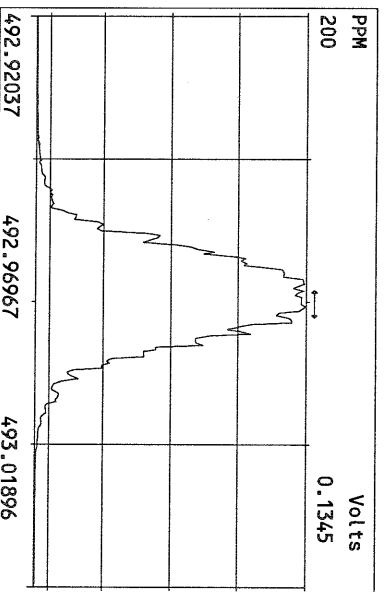
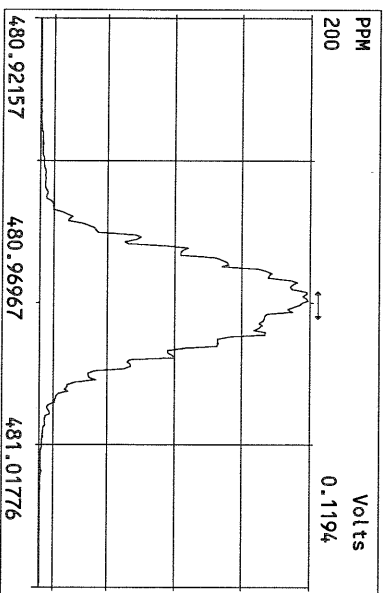
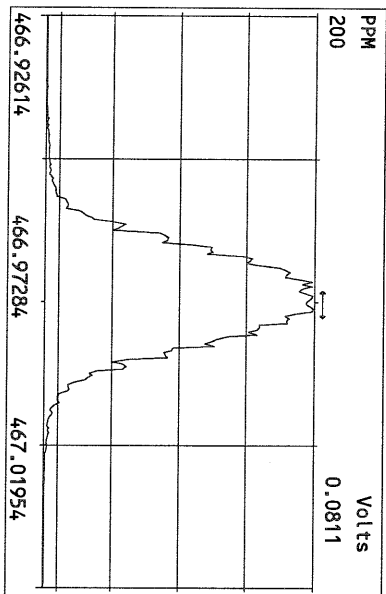
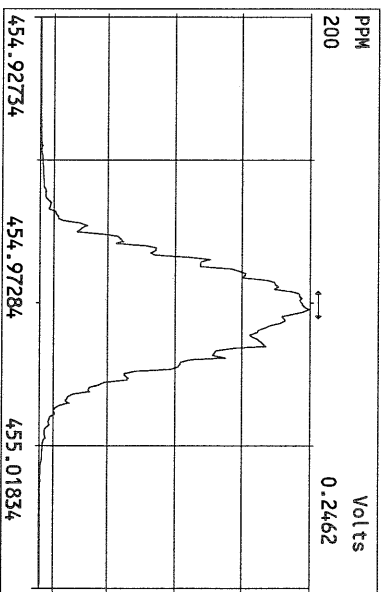
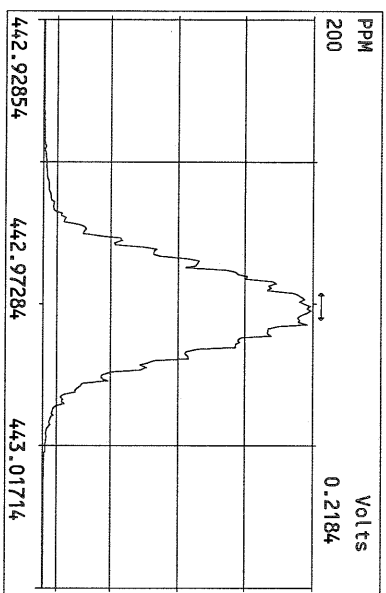
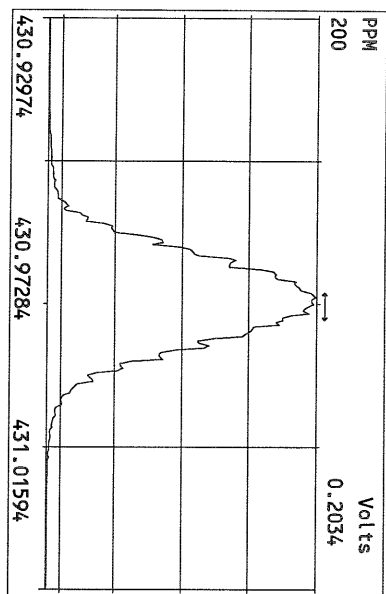


Peak Locate Examination: 12-MAY-2010:20:49 File: 12MAY10M_RES_CHECK
 Experiment: PCDD Function: 2 Reference: PFK









USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 15AUG10M Sam:1

Analysis Date: 15-AUG-10 12:06:40

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.75	0.65-0.89	y	9.84	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.64	1.32-1.78	y	47.2	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.36	1.05-1.43	y	49.0	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.37	1.05-1.43	y	46.6	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.40	1.05-1.43	y	50.7	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	49.0	43.0 - 58.0 ✓
OCDD	M+2/M+4	0.95	0.76-1.02	y	113	79.0 - 126 ✓
2,3,7,8-TCDF	M/M+2	0.71	0.65-0.89	y	8.75	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.45	1.32-1.78	y	49.1	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.46	1.32-1.78	y	46.1	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	45.1	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	45.5	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	46.0	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.23	1.05-1.43	y	46.0	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.02	0.88-1.20	y	45.2	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	45.1	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.87	0.76-1.02	y	93.0	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: DN Date: 8/15/10

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 15AUG10M Sam:1

Analysis Date: 15-AUG-10 12:06:40

LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.82	0.65-0.89	y	97.6	82.0 - 121 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.78	1.32-1.78	y	83.6	62.0 - 160 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	94.9	85.0 - 117 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	98.7	85.0 - 118 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.00	0.88-1.20	y	75.2	72.0 - 138 ✓
13C-OCDD	M+2/M+4	0.91	0.76-1.02	y	125	96.0 - 415 ✓
13C-2,3,7,8-TCDF	M/M+2	0.87	0.65-0.89	y	93.9	71.0 - 140 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.68	1.32-1.78	y	80.3	76.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.66	1.32-1.78	y	83.8	77.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	95.3	76.0 - 131 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	102	70.0 - 143 ✓
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	102	73.0 - 137 ✓
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.50	0.43-0.59	y	94.0	74.0 - 135 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.40	0.37-0.51	y	79.9	78.0 - 129 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.38	0.37-0.51	y	78.9	77.0 - 129 ✓
13C-OCDF	M+2/M+4	0.98	0.76-1.02	y	137	96.0 - 415 ✓
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					8.82	7.80 - 12.8 ✓

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

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

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

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

Analyst: DWDate: 8/15/10

USEPA - ITD

FORM 6B

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 15-AUG-10 12:06:40

CS3 or VER Data Filename: 15AUG10M

Sam:1

NATIVE ANALYTES	RETENTION TIME		RRT	QC LIMITS (1)
	REFERENCE			
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD		1.001	0.999-1.001 ✓
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD		1.001	0.998-1.004 ✓
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD		1.012	1.000-1.019 ✓
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF		1.001	0.999-1.001 ✓
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF		1.001	0.997-1.005 ✓
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF		1.001	0.999-1.001 ✓
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF		1.001	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD		1.000	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF		1.000	0.999-1.001 ✓
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF		1.000	0.999-1.001 ✓
OCDD	13C-OCDD		1.001	0.999-1.001 ✓
OCDF	13C-OCDF		1.000	0.999-1.001 ✓
LABELED COMPOUNDS				
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD		0.984	0.977-1.000 ✓
13C-1,2,3,6,7,8-HxCDD			0.989	0.981-1.003 ✓
13C-1,2,3,4,7,8-HxCDF			0.949	0.944-0.970 ✓
13C-1,2,3,6,7,8-HxCDF			0.954	0.949-0.975 ✓
13C-2,3,4,6,7,8-HxCDF			0.978	0.959-1.021 ✓
13C-1,2,3,7,8,9-HxCDF			1.015	0.977-1.047 ✓
13C-1,2,3,4,6,7,8-HpCDD			1.128	1.086-1.130 ✓
13C-1,2,3,4,6,7,8-HpCDF			1.079	1.043-1.085 ✓
13C-1,2,3,4,7,8,9-HpCDF			1.151	1.057-1.154 ✓
13C-OCDD			1.269	1.032-1.311 ✓
13C-OCDF			1.279	1.000-1.311 ✓

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

Analyst: DNDate: 8/15/10

Frontier Analytical Laboratory - Acquisition Log

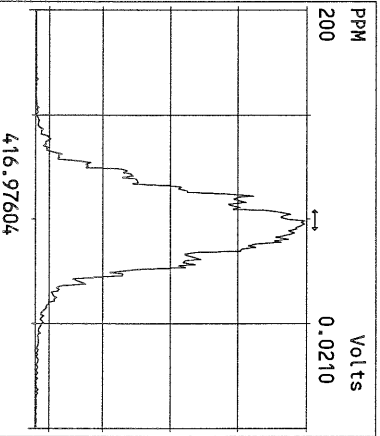
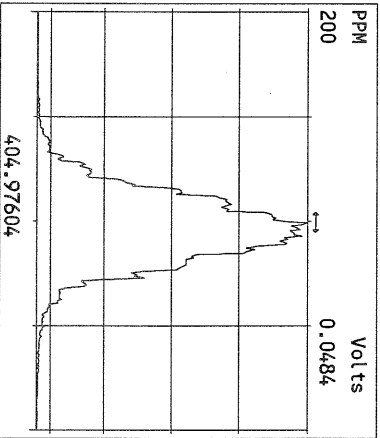
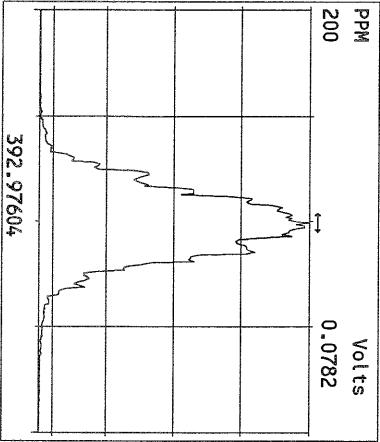
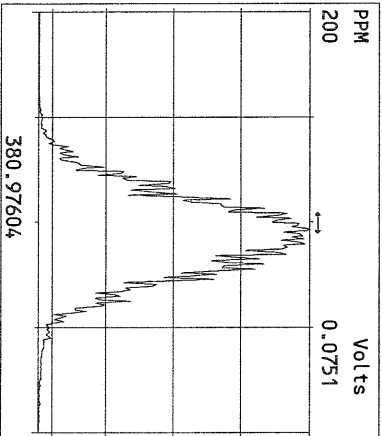
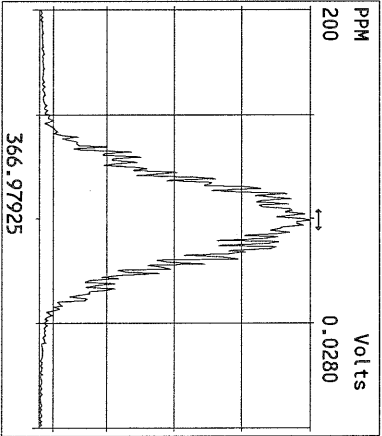
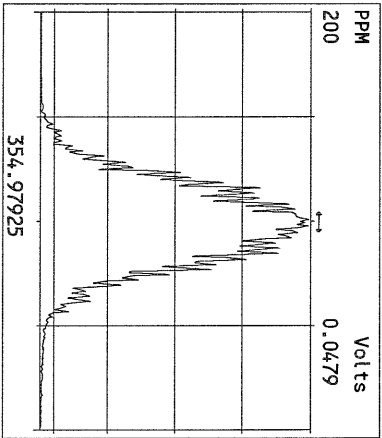
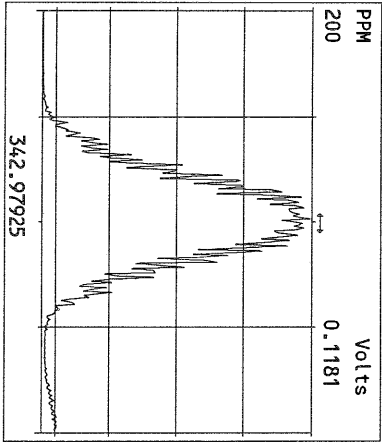
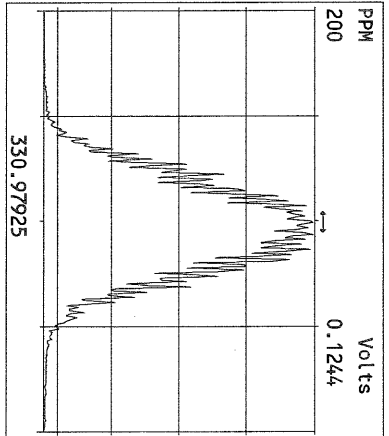
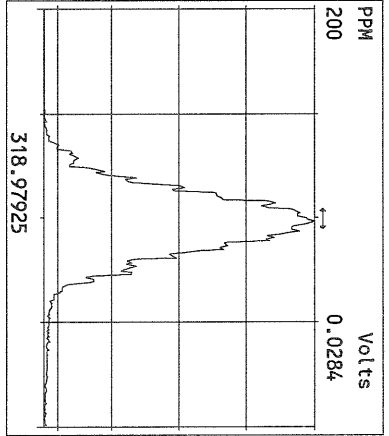
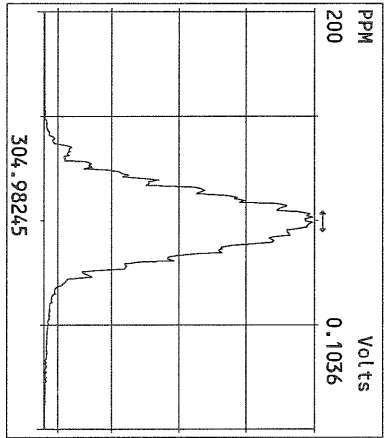
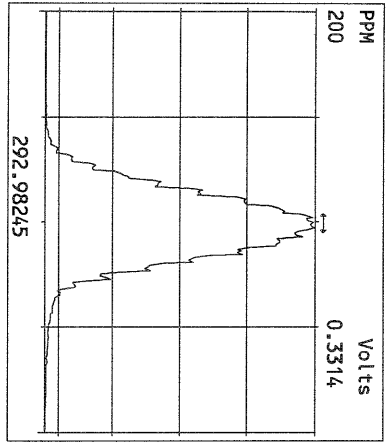
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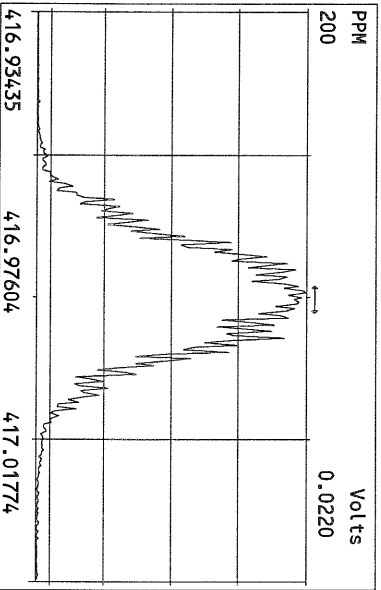
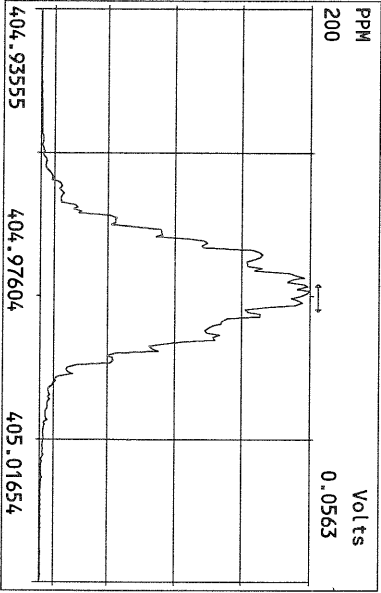
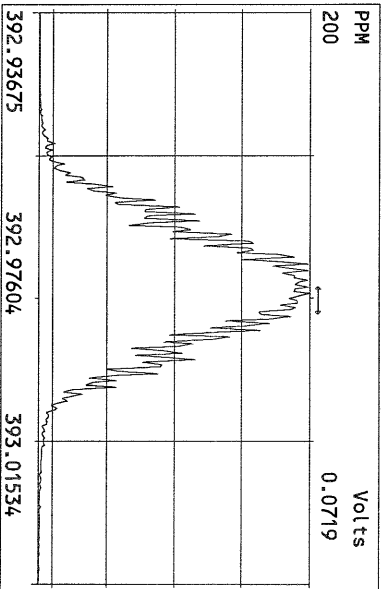
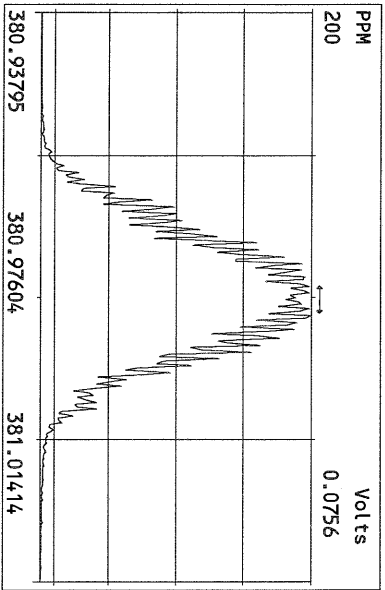
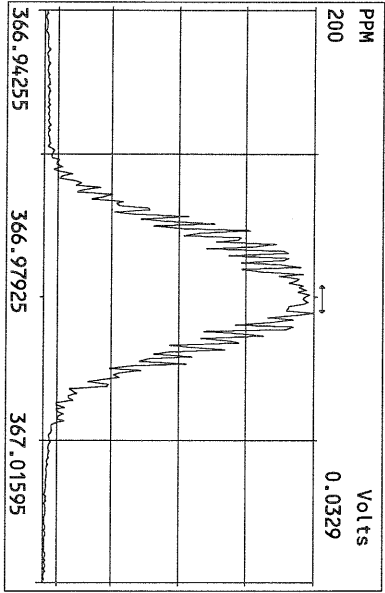
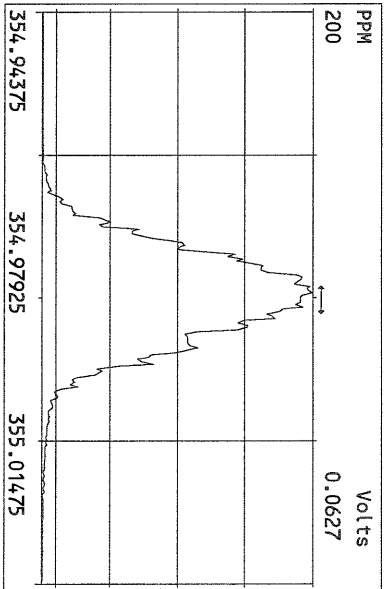
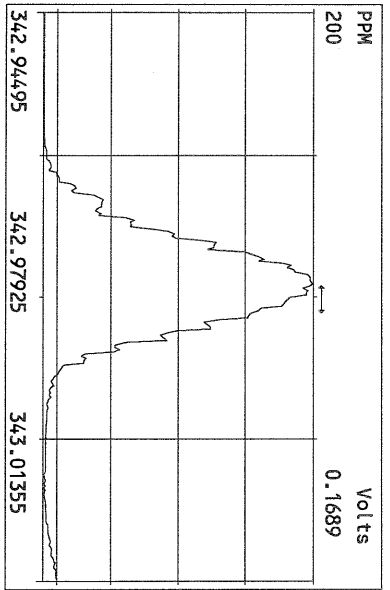
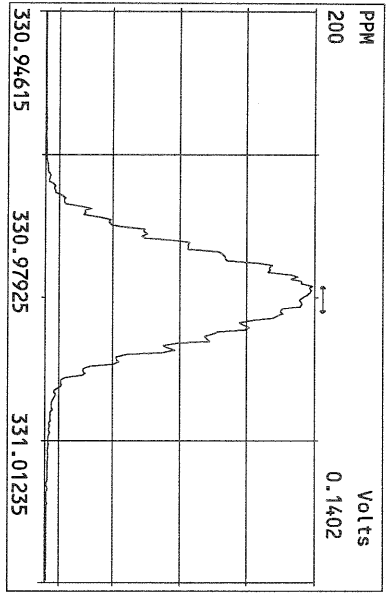
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15AUG10M 16	6272-005-0001-SA	PSB3-0-0.5-072910	16-AUG-10 01:56:35	ST081510M2	ST081510M3	DV
15AUG10M 17	6272-003-0001-SA	PSB2-0-0.5-072910	16-AUG-10 02:51:55	ST081510M2	ST081510M3	DV
15AUG10M 18	6272-001-0001-SA	PSB1-0-0.5-072910	16-AUG-10 03:47:14	ST081510M2	ST081510M3	DV
15AUG10M 19	6272-002-0001-SA	PSB1-1.5-2.0-072910	16-AUG-10 04:42:37	ST081510M2	ST081510M3	DV
15AUG10M 20	6272-002-0002-MS	PSB1-1.5-2.0-072910	16-AUG-10 05:38:00	ST081510M2	ST081510M3	DV
15AUG10M 21	6272-002-0002-MSD	PSB1-1.5-2.0-072910	16-AUG-10 06:33:23	ST081510M2	ST081510M3	DV
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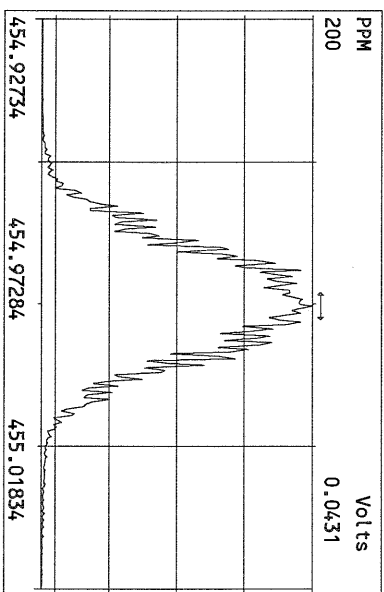
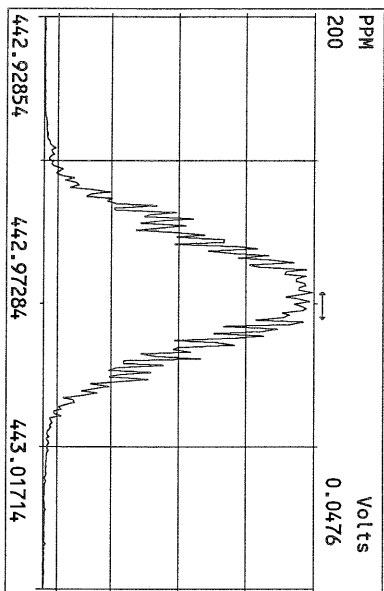
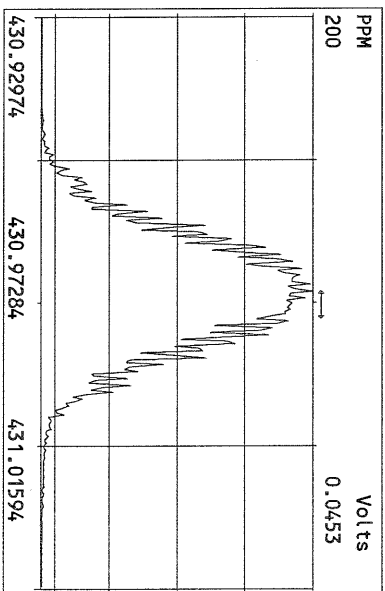
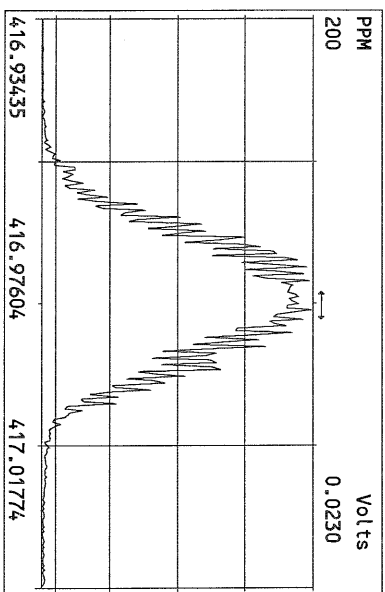
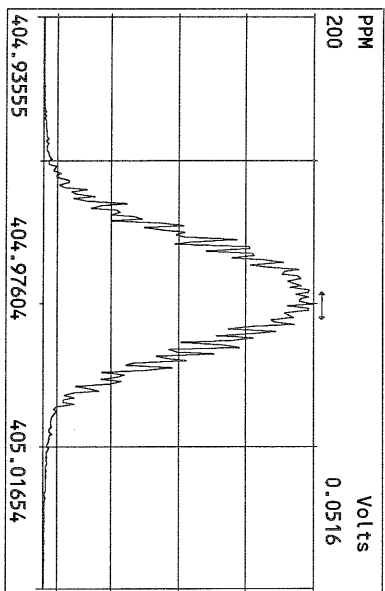
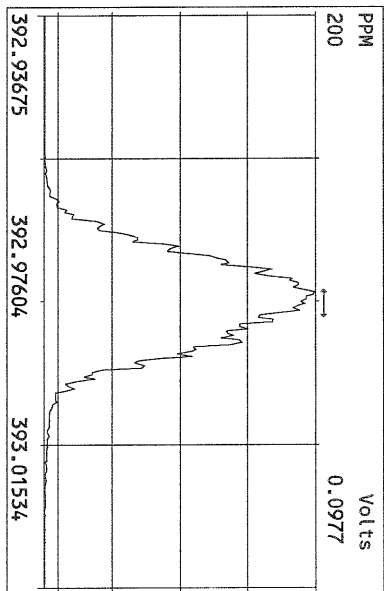
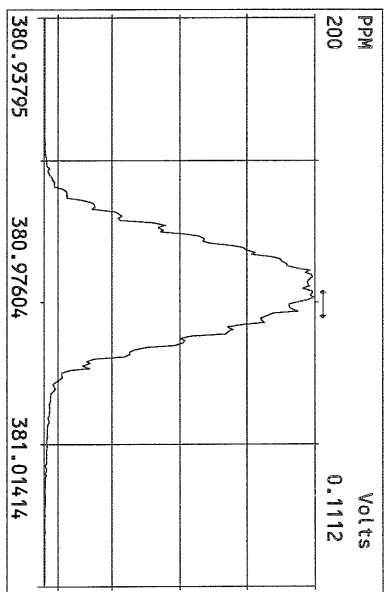
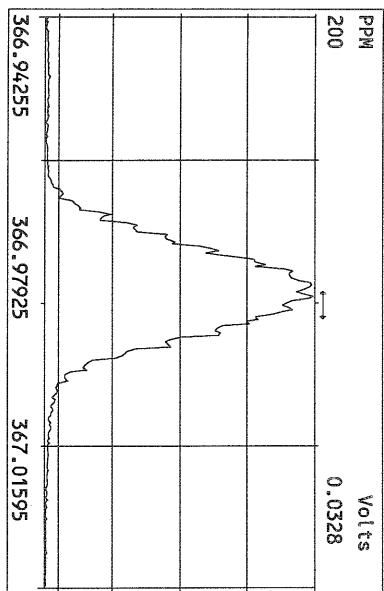
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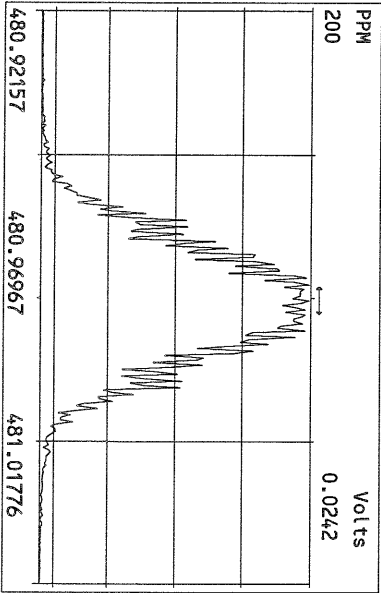
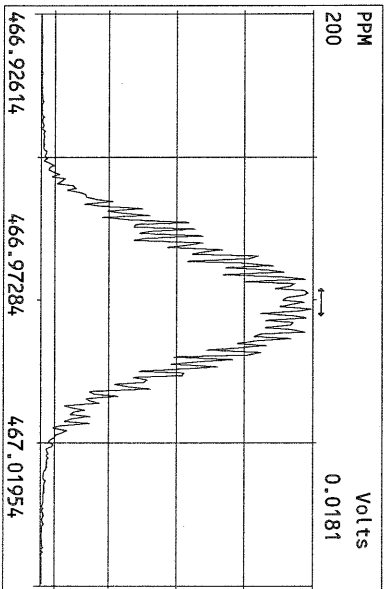
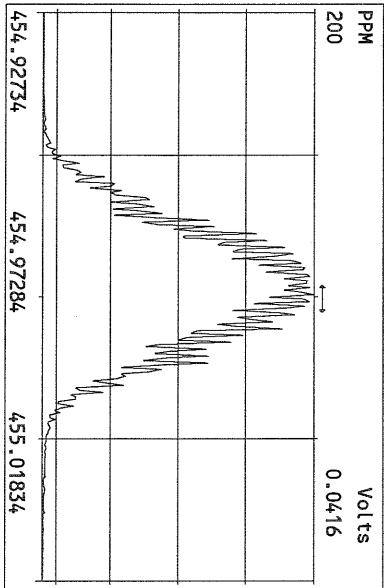
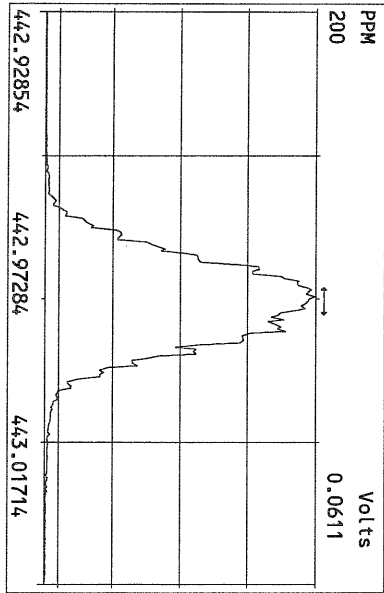
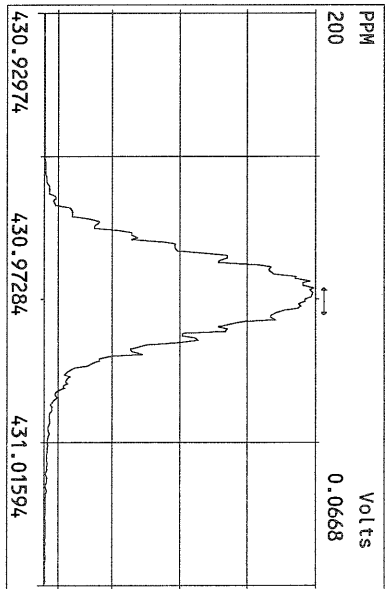
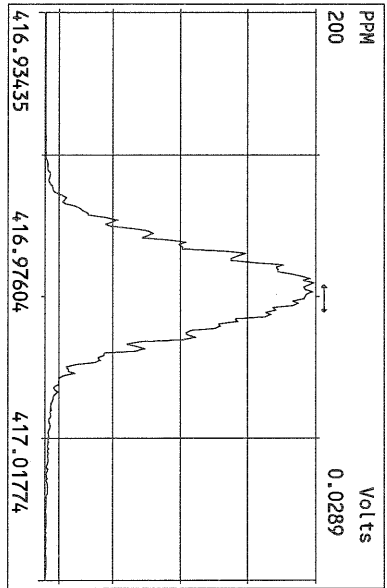
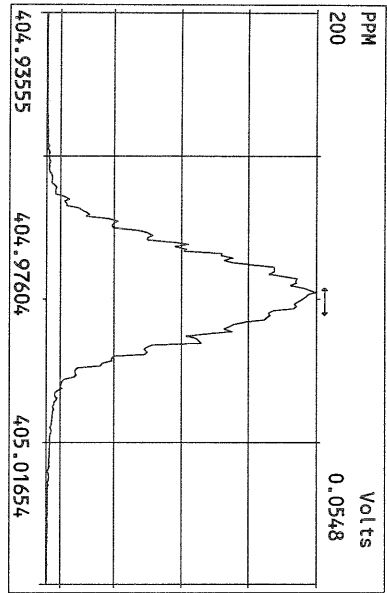
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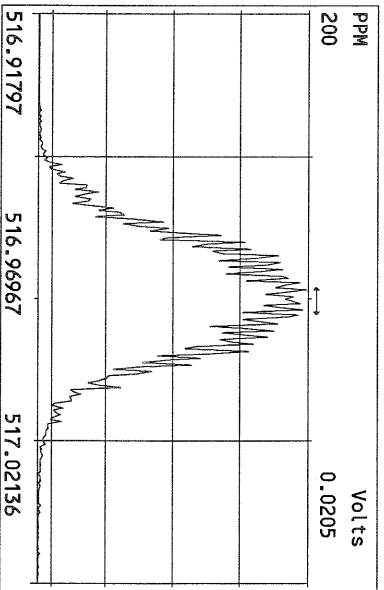
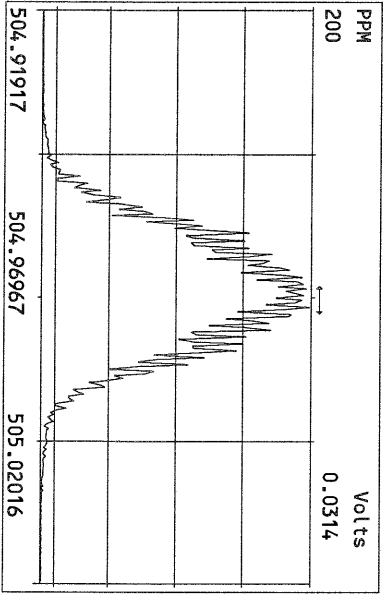
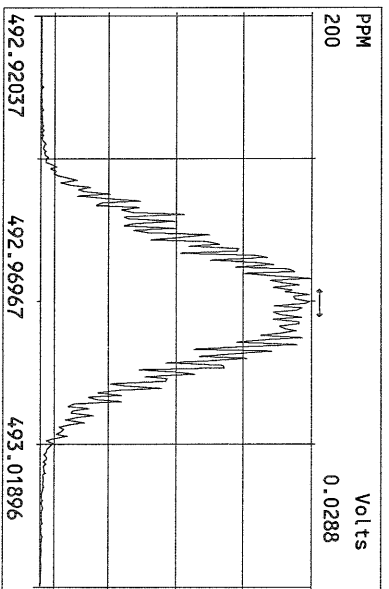
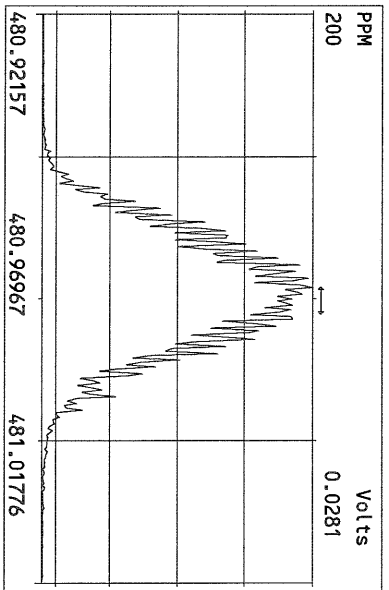
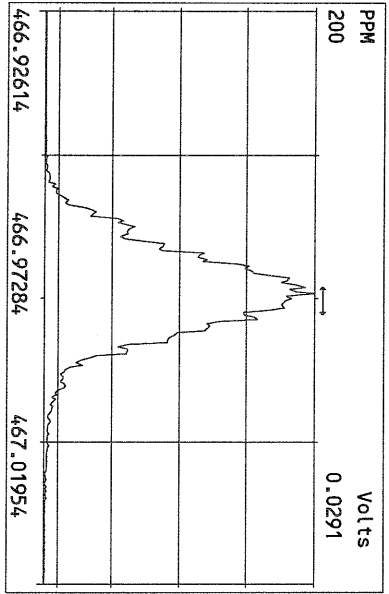
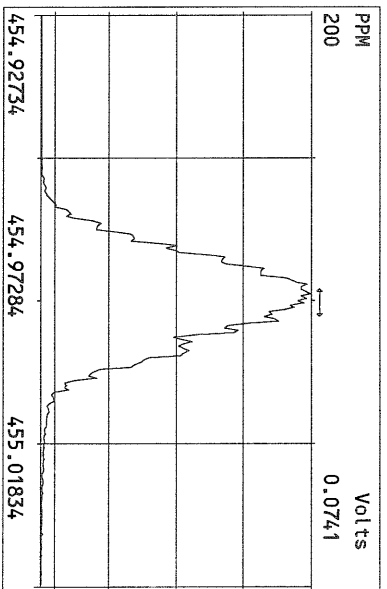
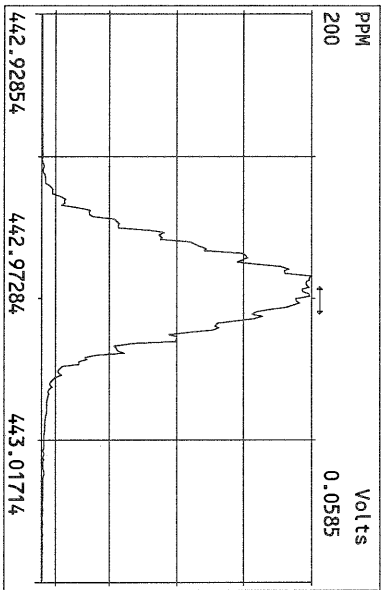
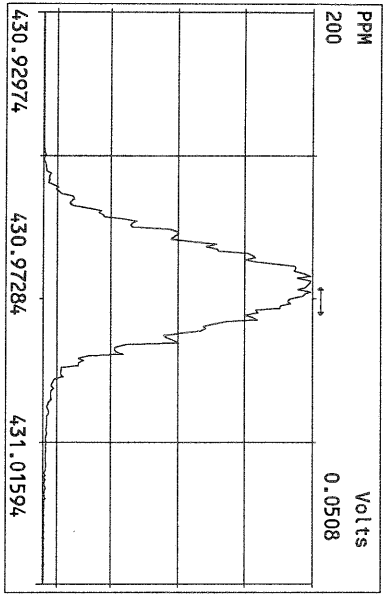
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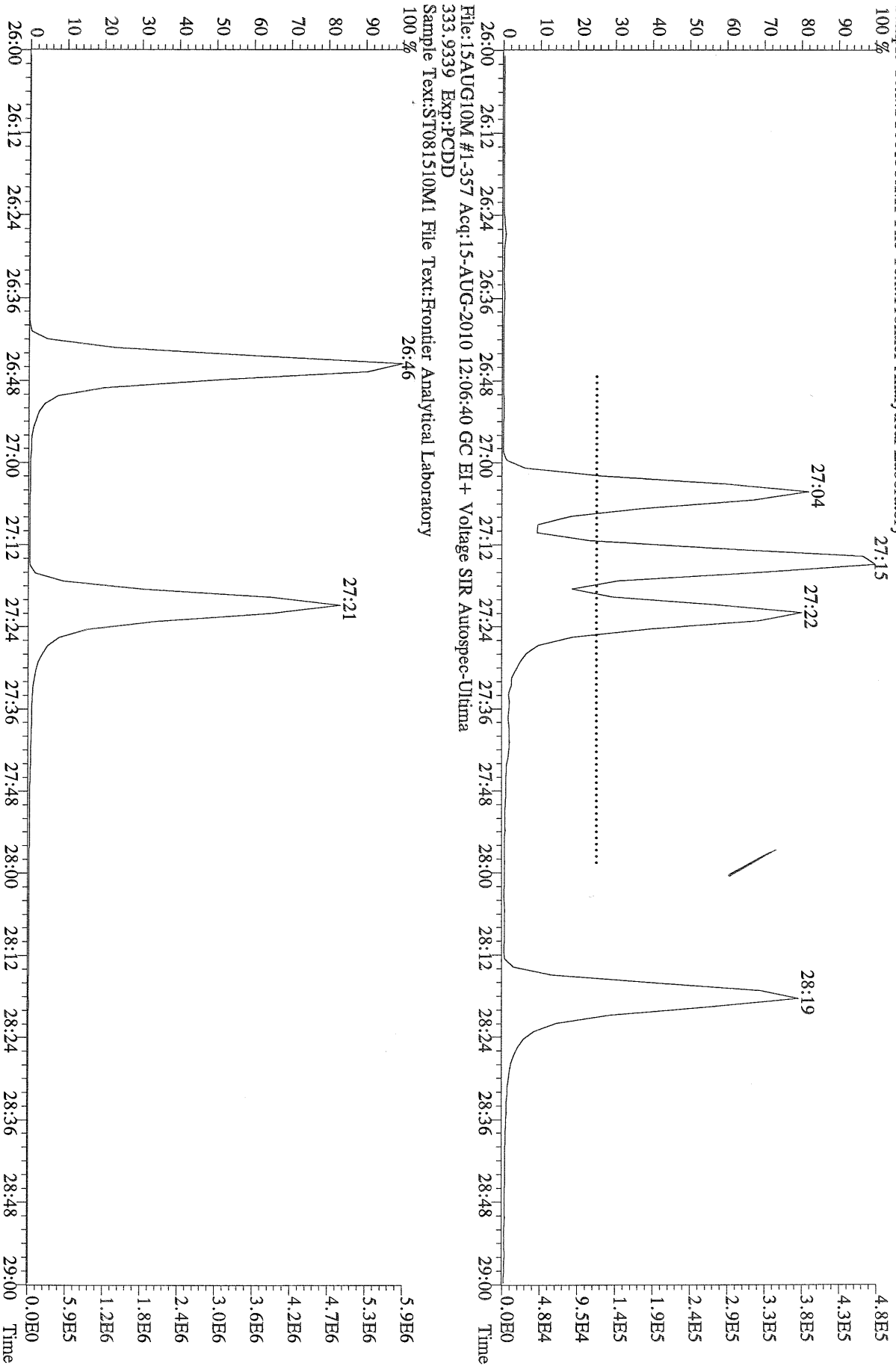




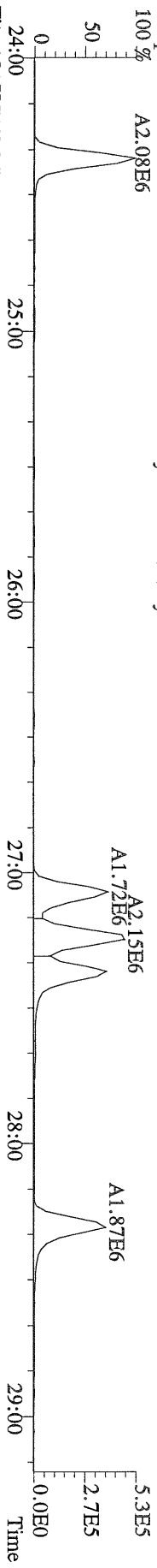




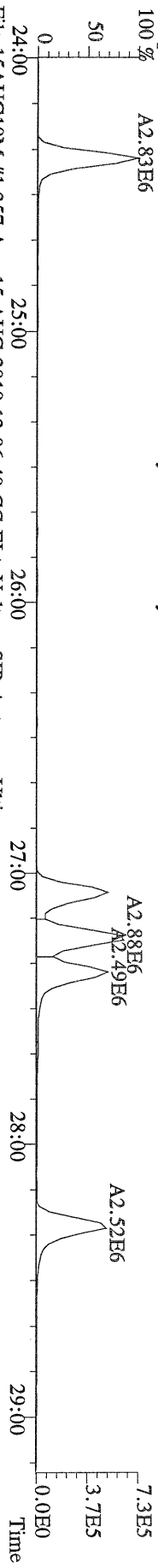
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Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory



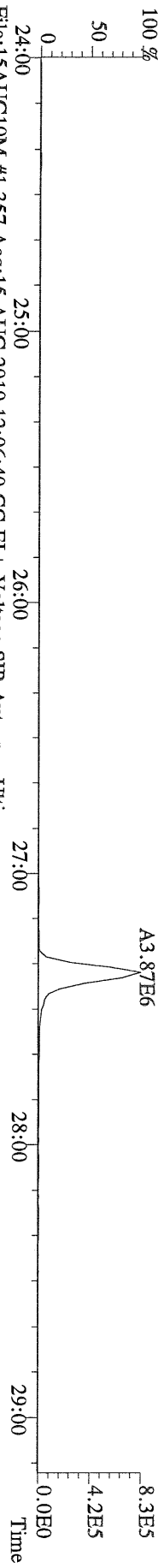
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100% A2.08E6



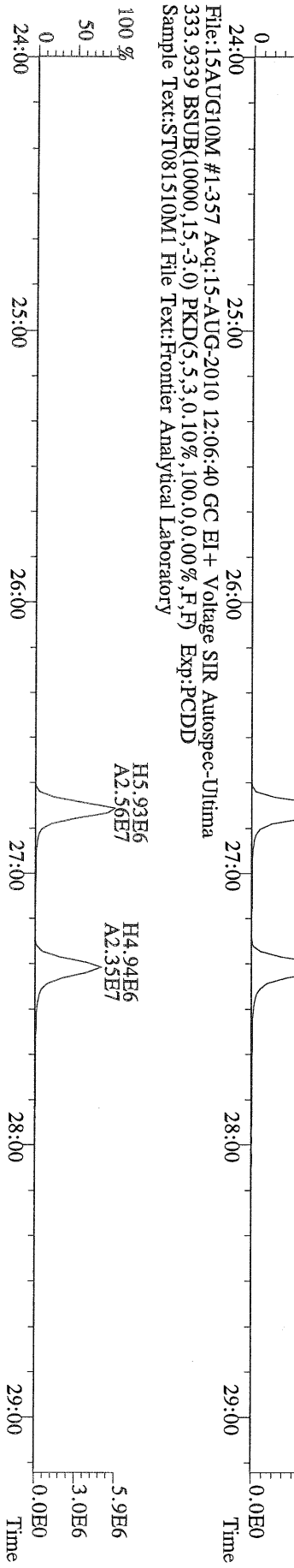
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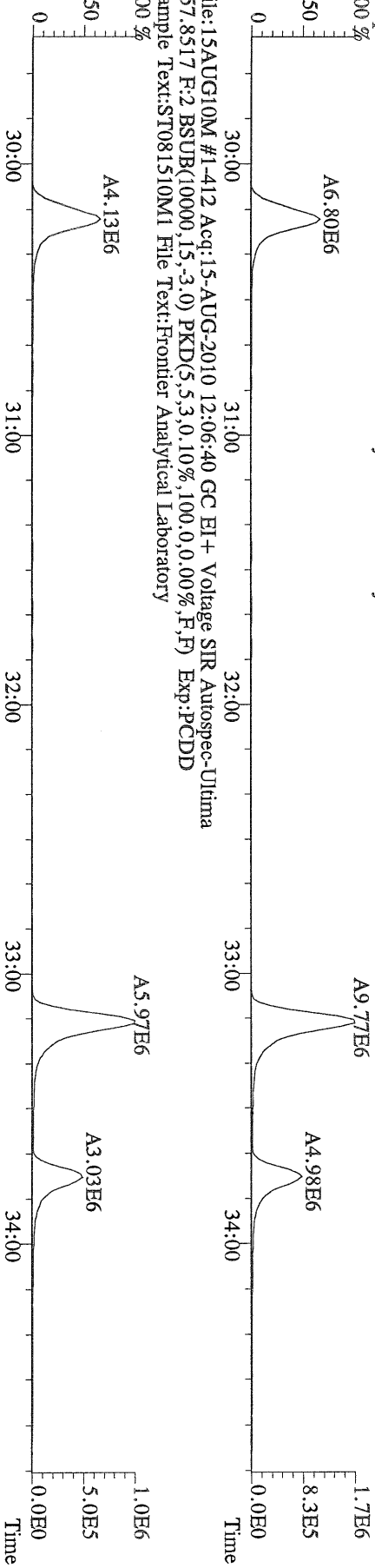
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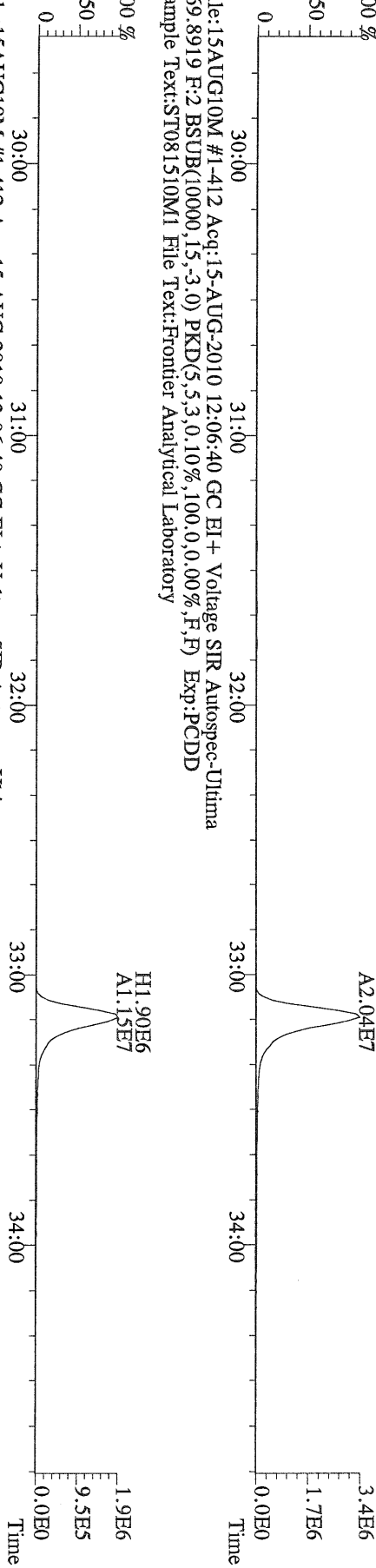
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100% H5.93E6
A2.56E7
H4.94E6
A2.35E7



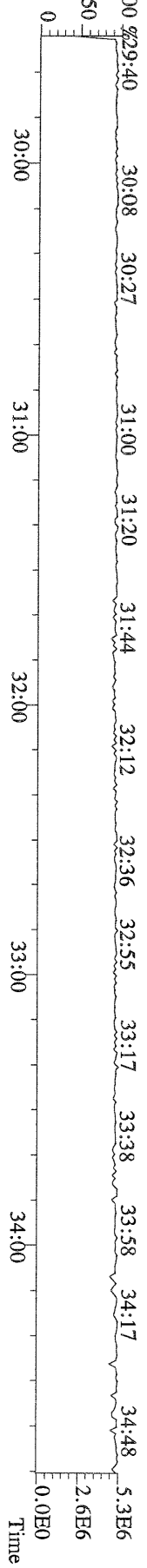
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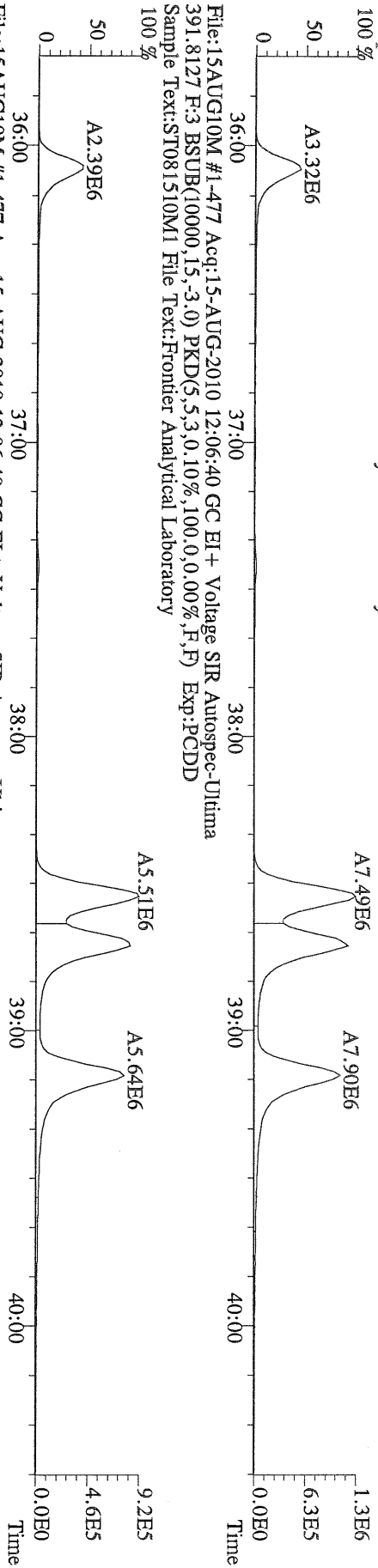
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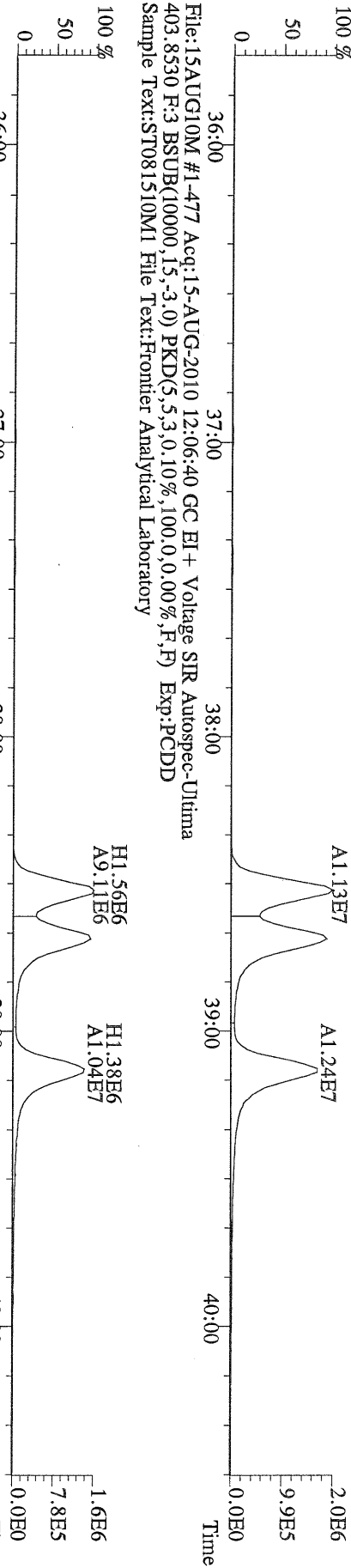
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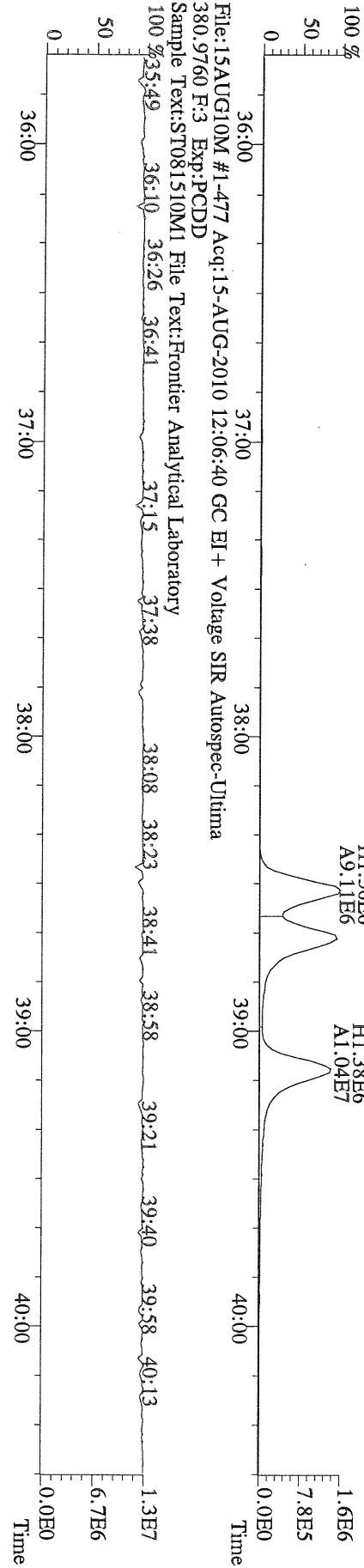
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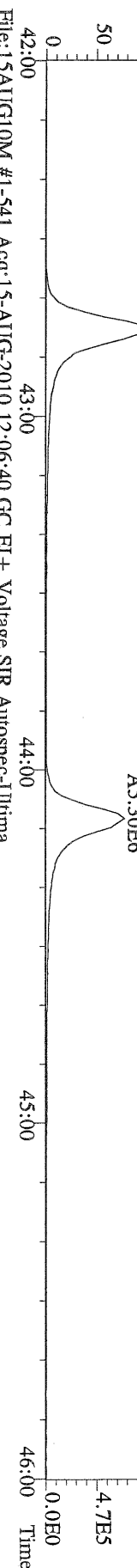


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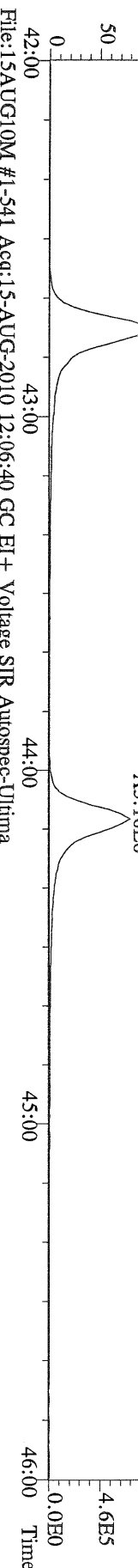


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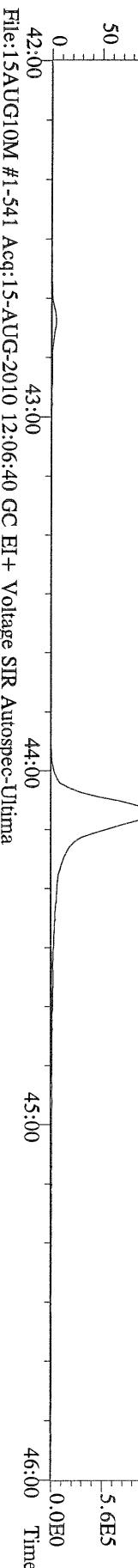
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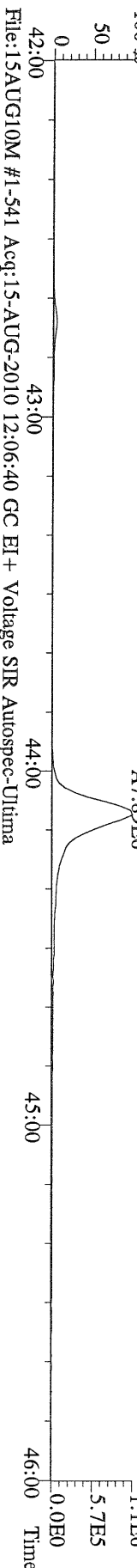
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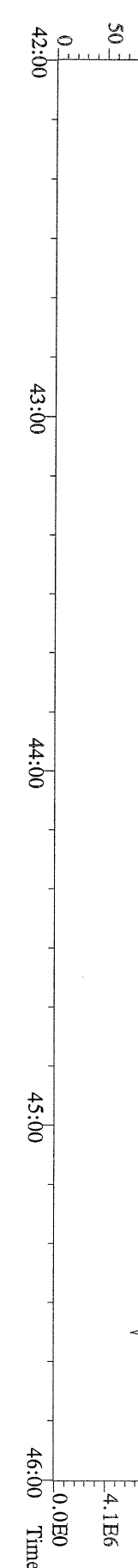
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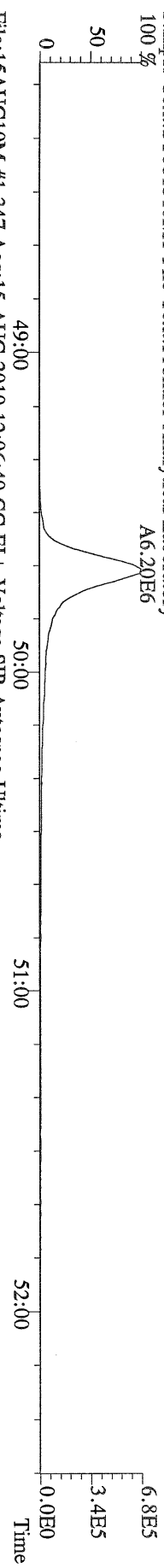
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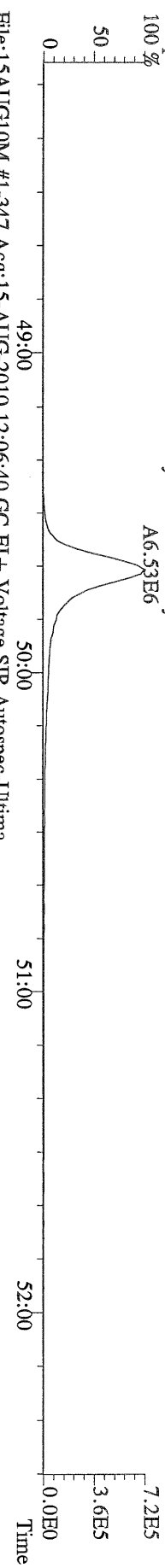
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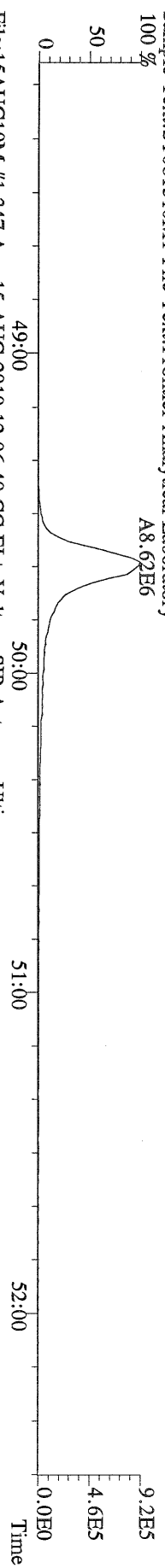
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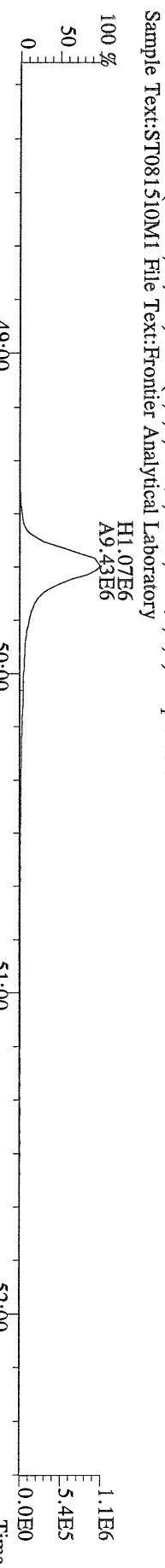
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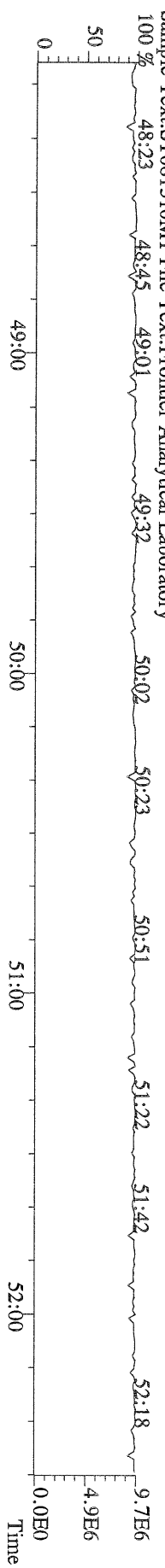
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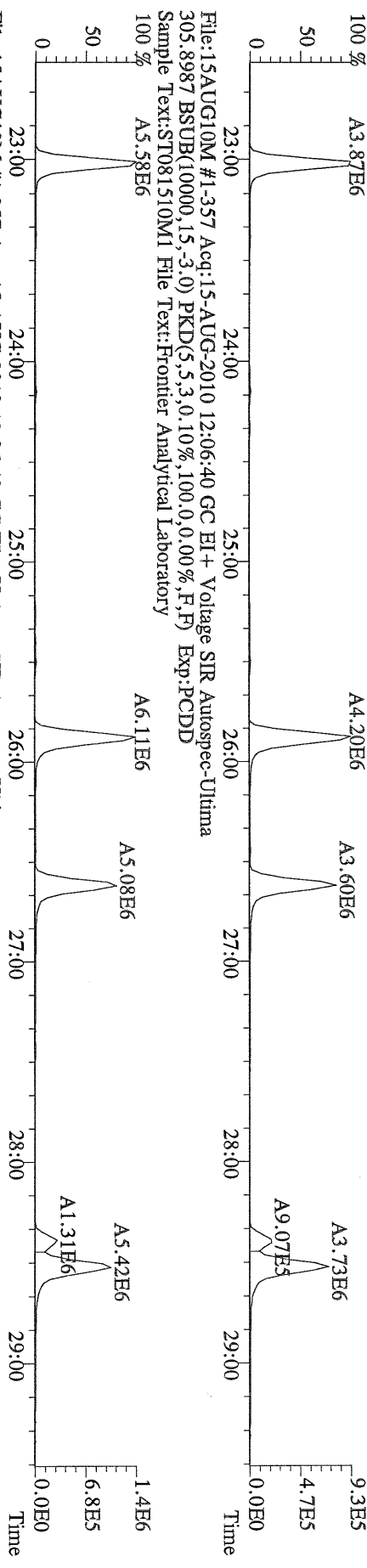
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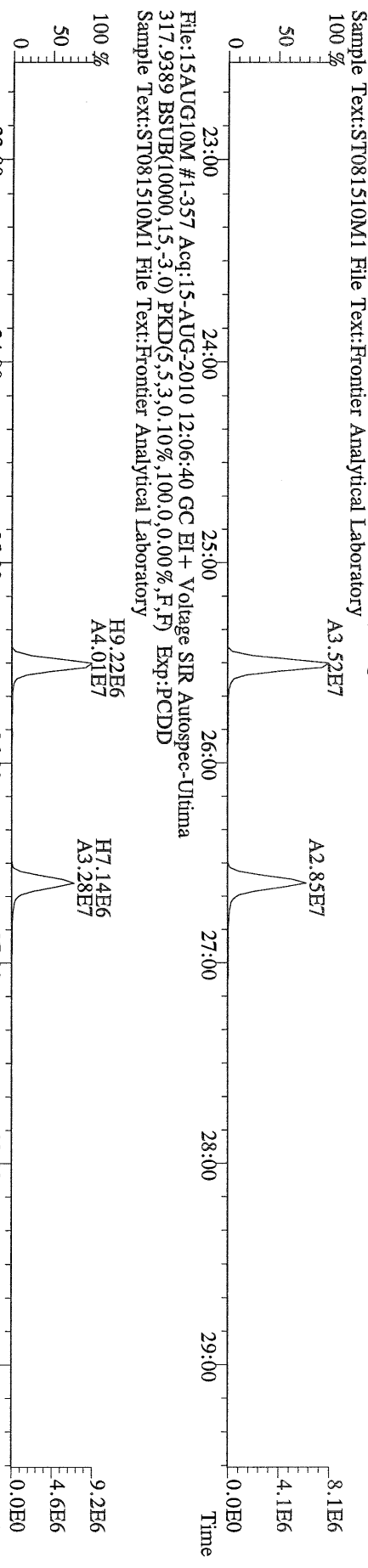
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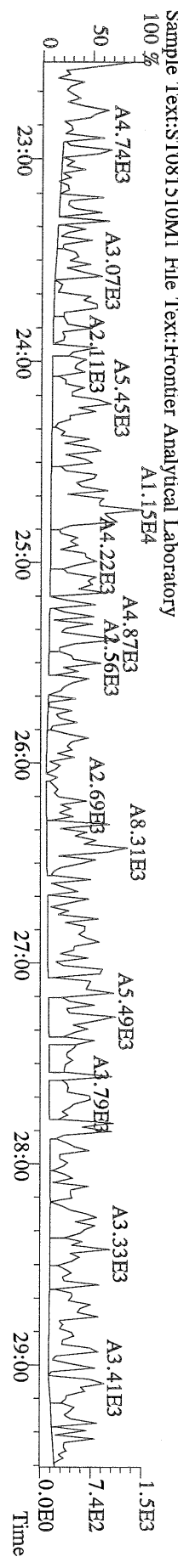
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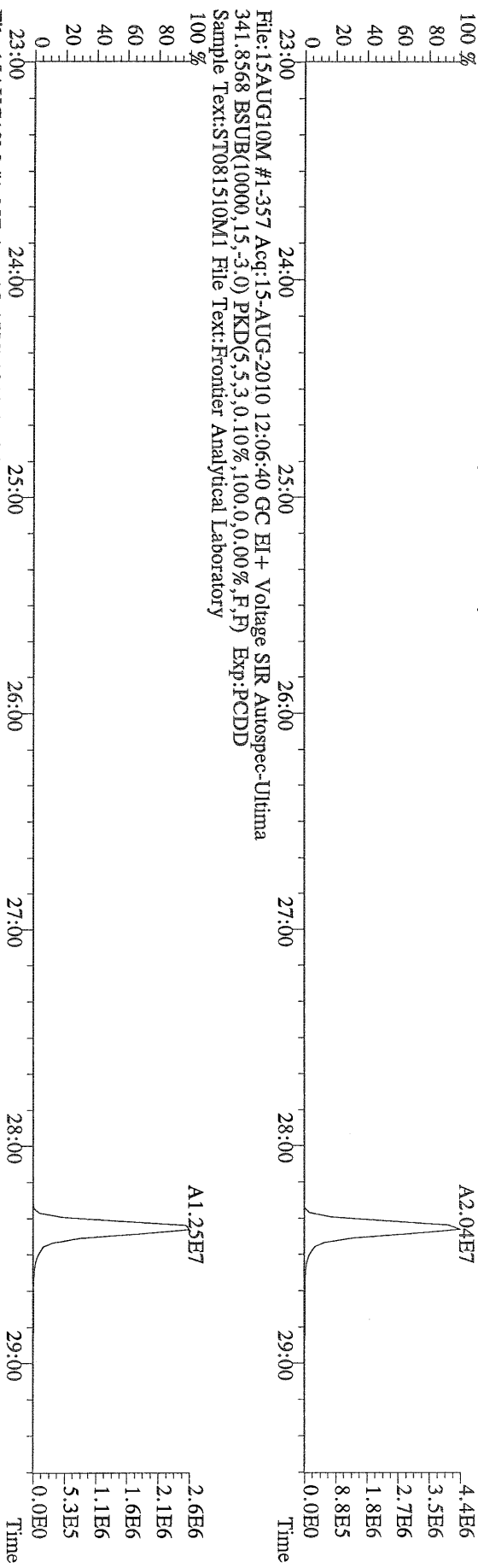
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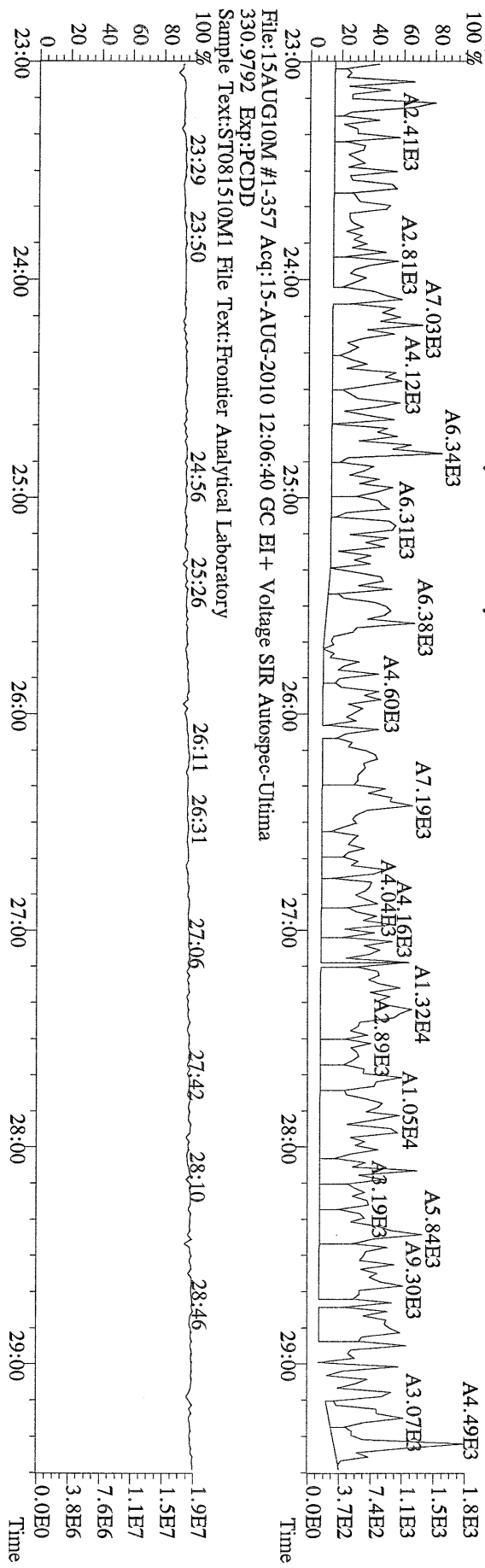
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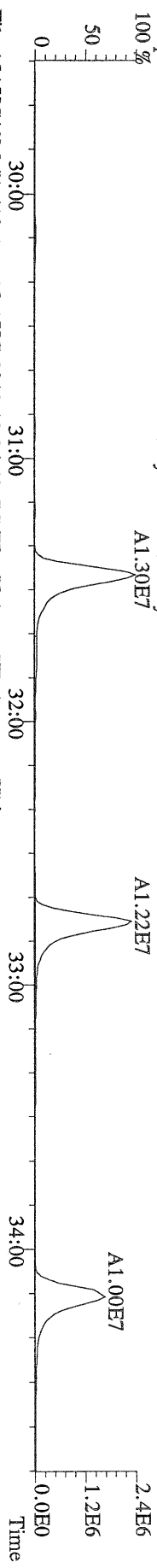
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 Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory



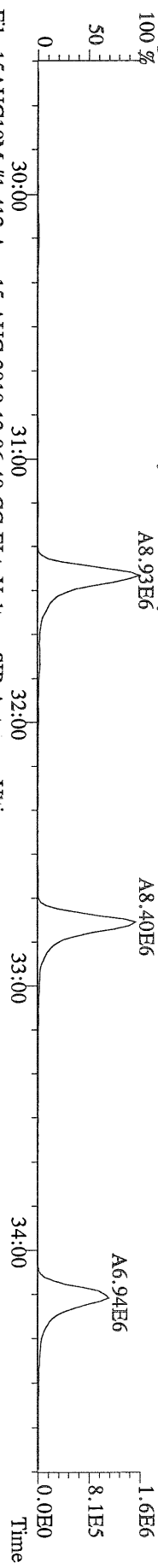
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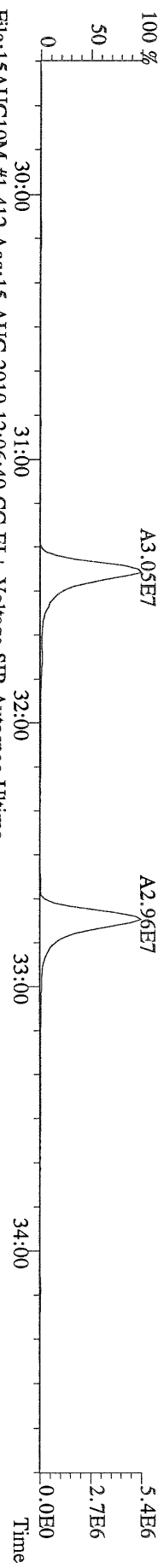
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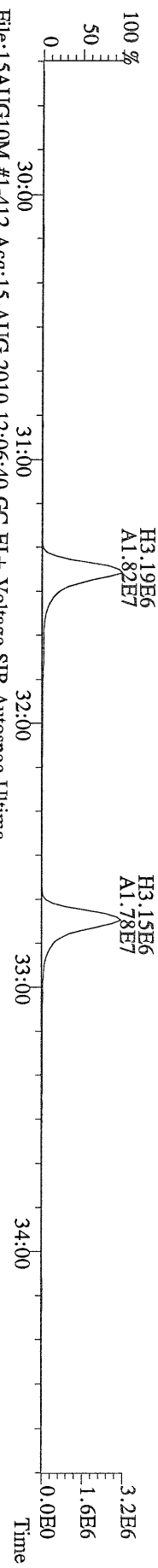
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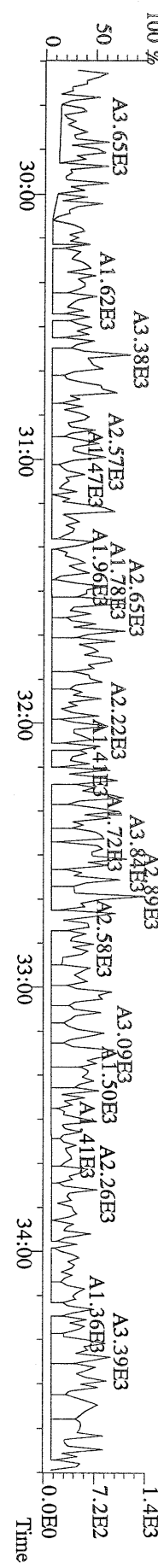
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 351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory



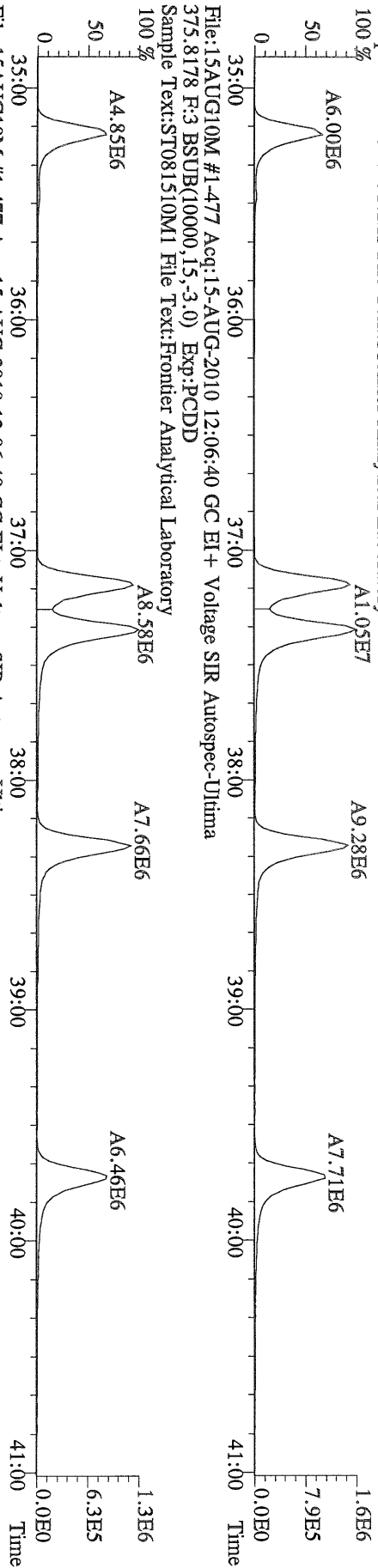
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 353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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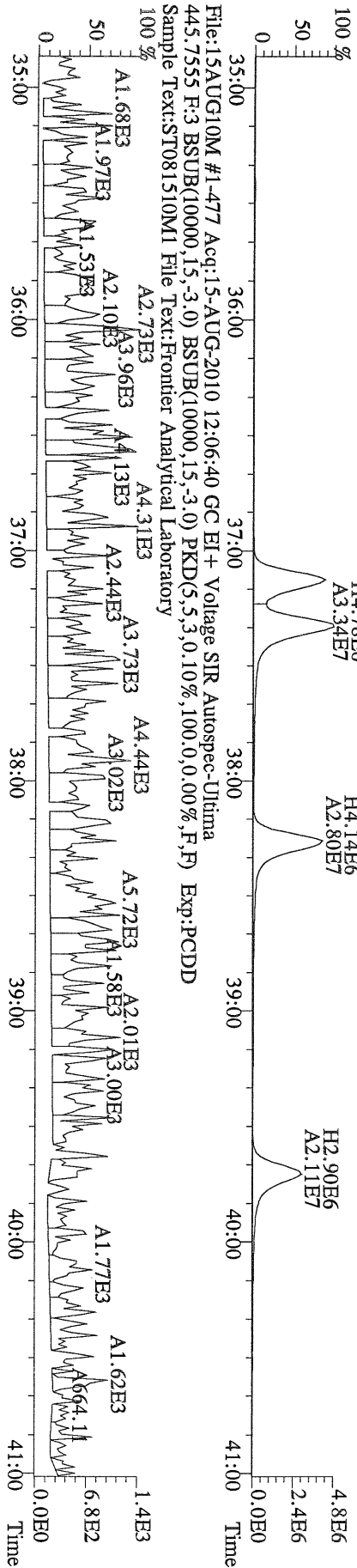
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 409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory



File:15AUG10M #1-477 Acq:15-AUG-2010 12:06:40 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 F:3 BSUB(10000,15,-3.0) BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory



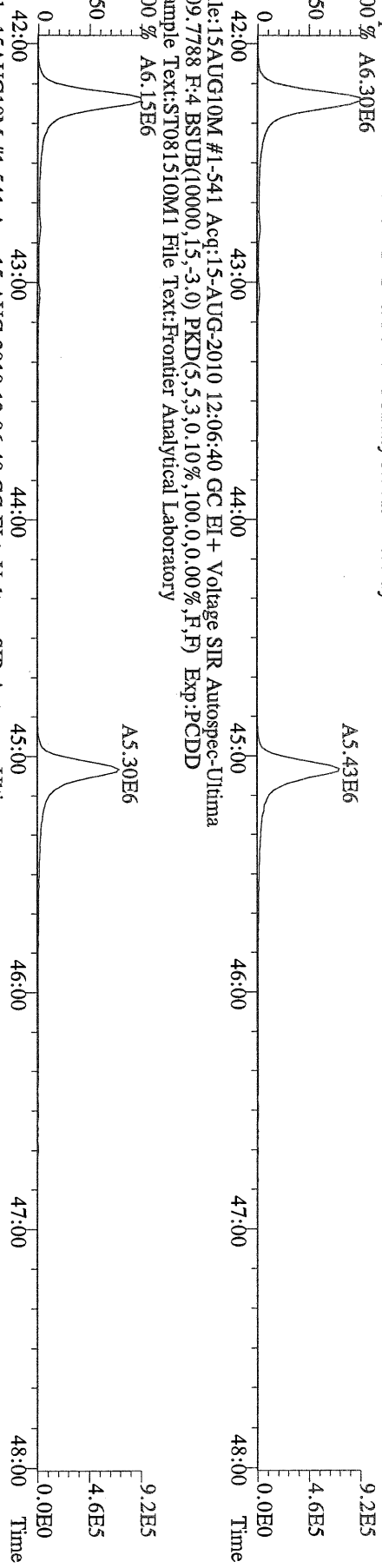
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 385.8639 F:3 BSUB(10000,15,-3.0) BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory



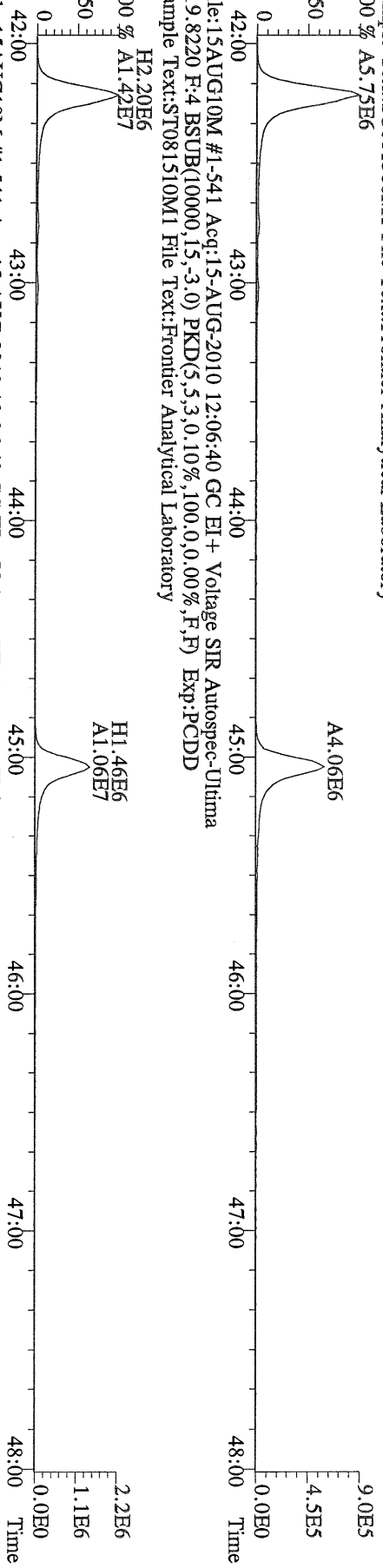
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 445.7555 F:3 BSUB(10000,15,-3.0) BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory



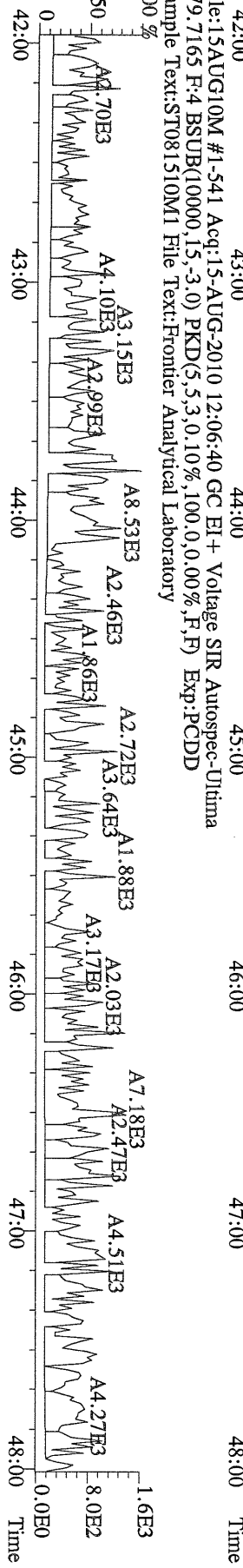
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407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory
100% A6.30E6



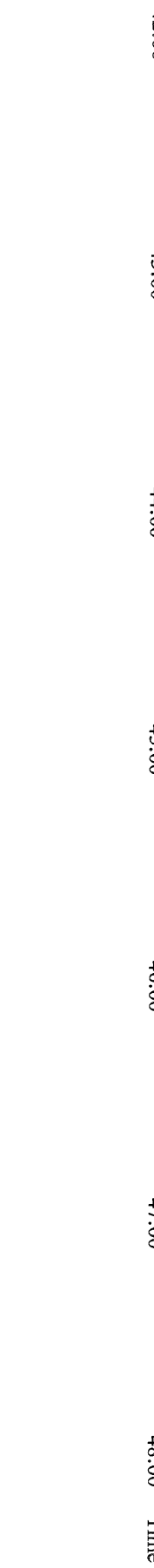
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417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory
100% A5.75E6



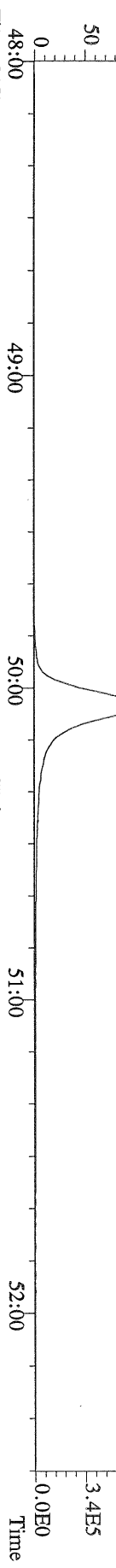
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419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
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100% A6.15E6



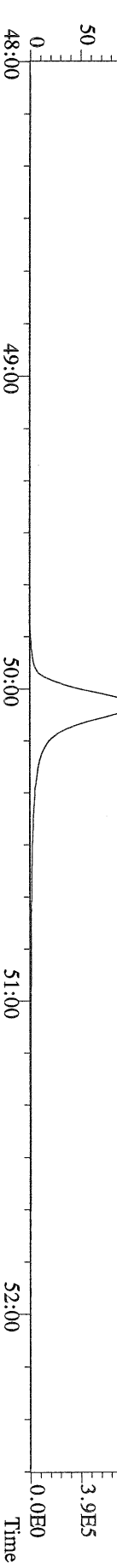
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Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory
100% A1.42E7



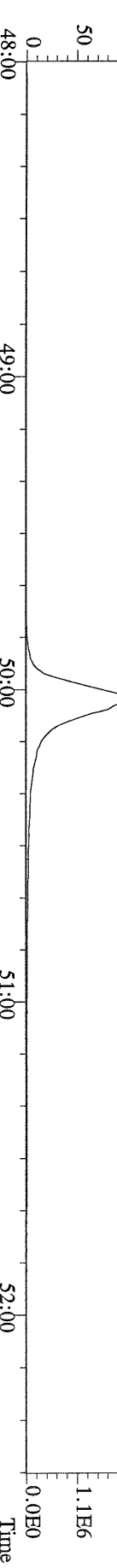
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441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory
100 %



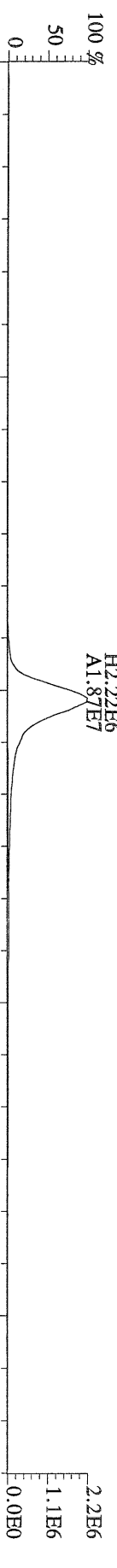
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Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory
100 %



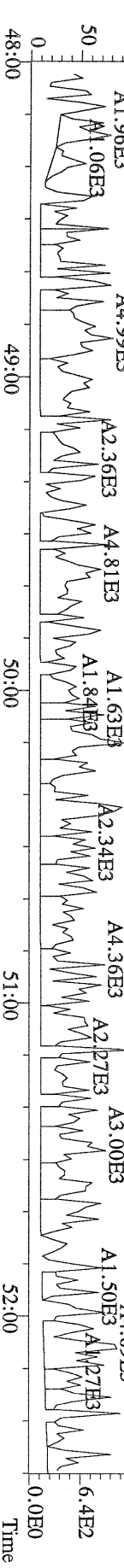
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Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory
100 %



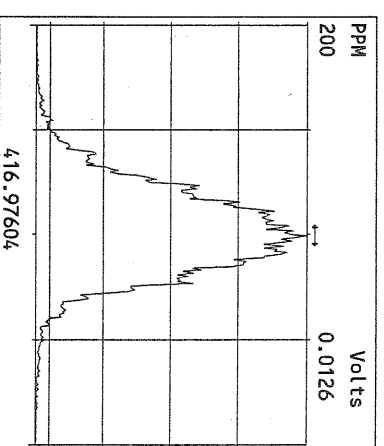
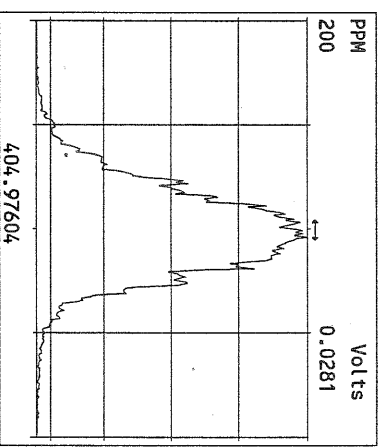
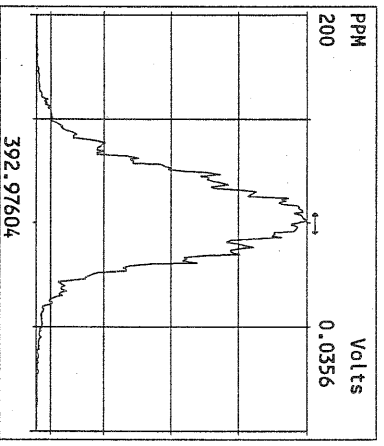
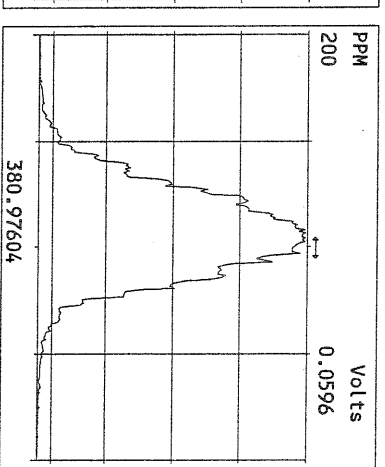
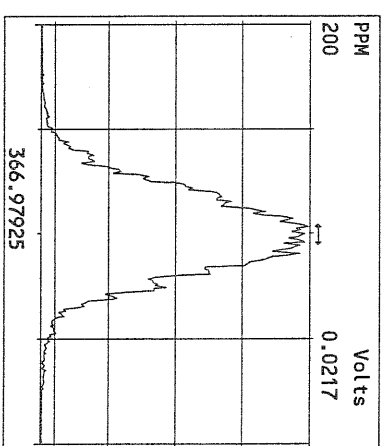
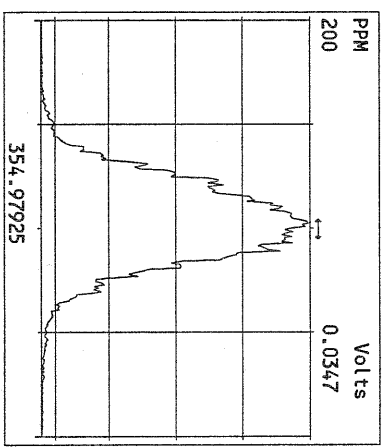
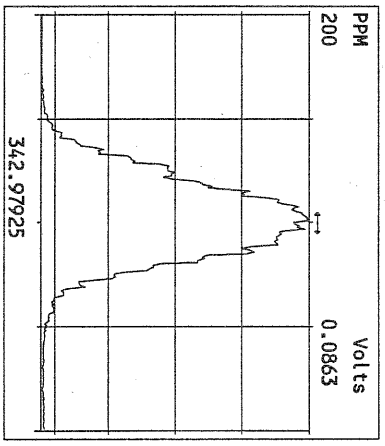
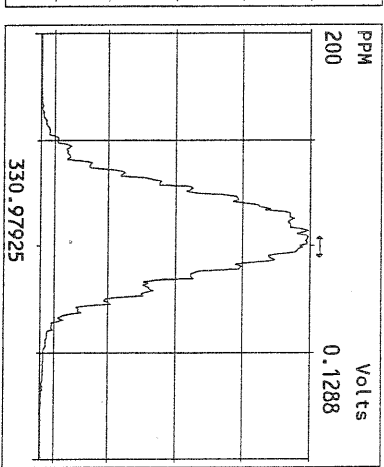
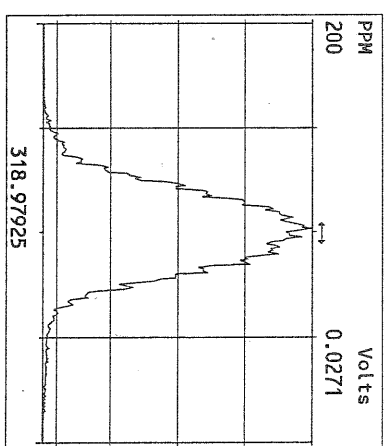
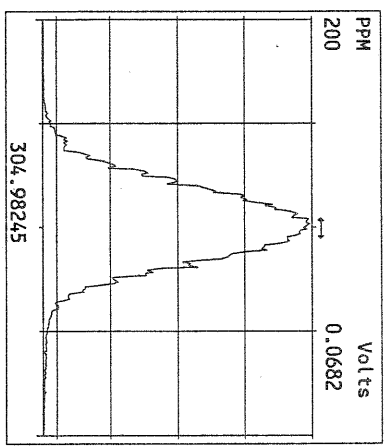
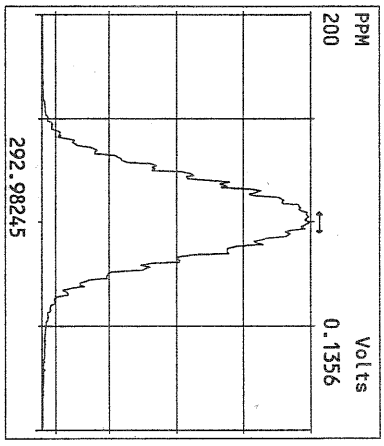
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Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory

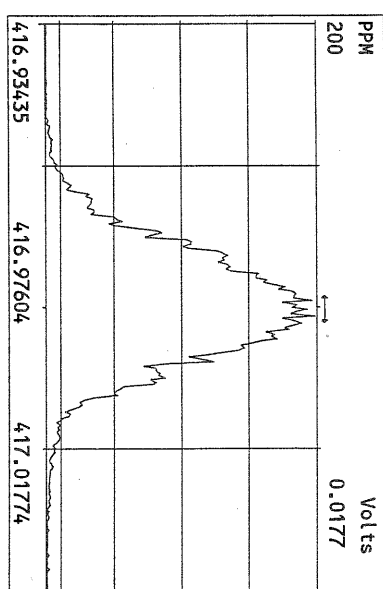
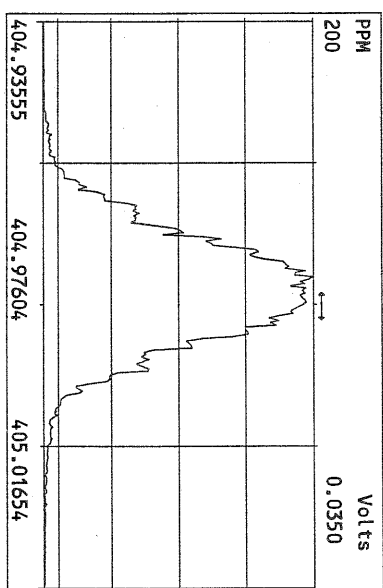
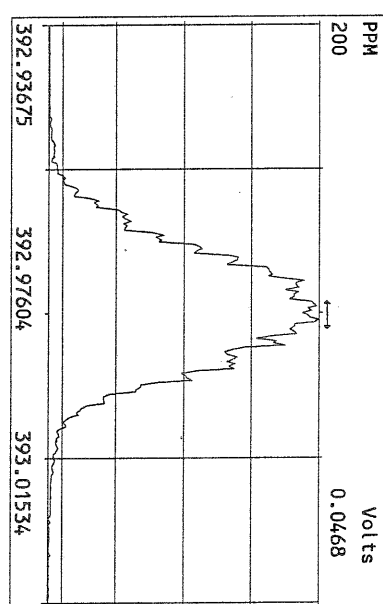
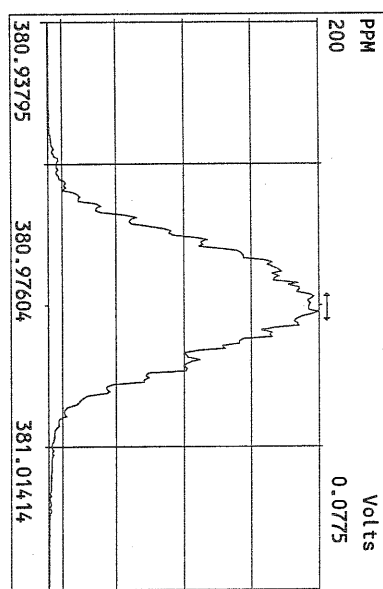
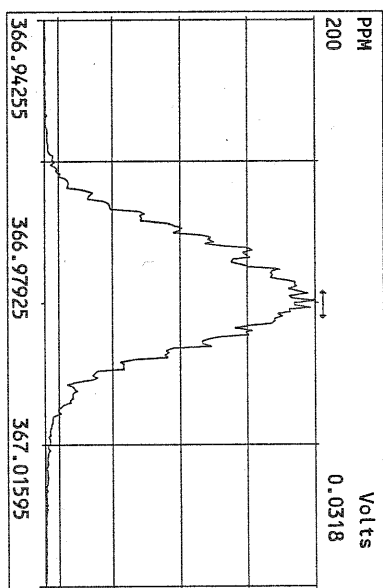
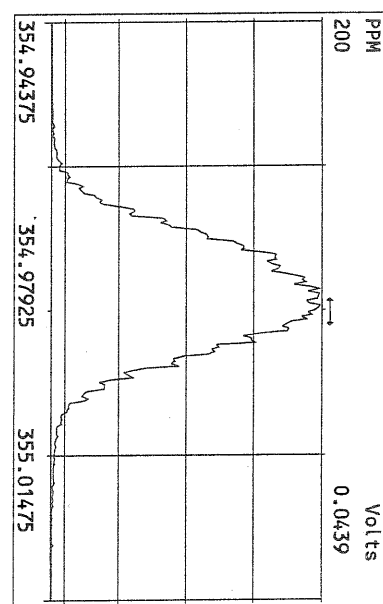
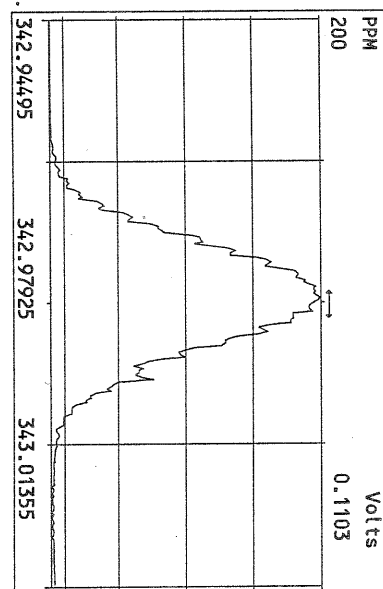
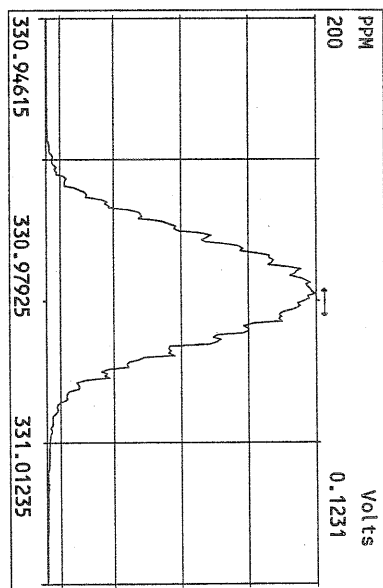


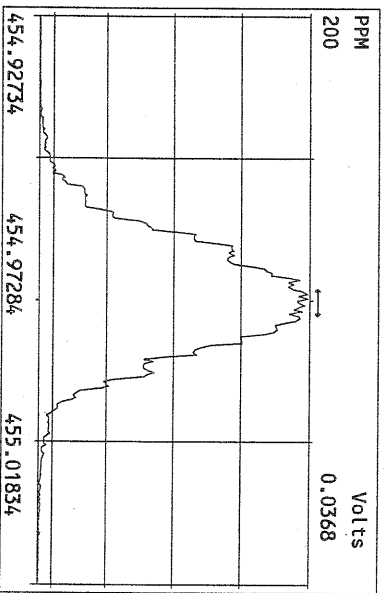
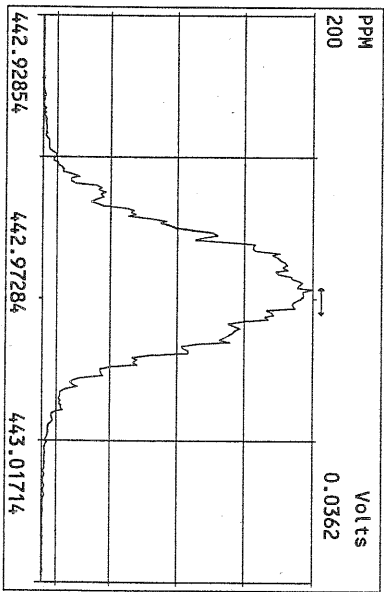
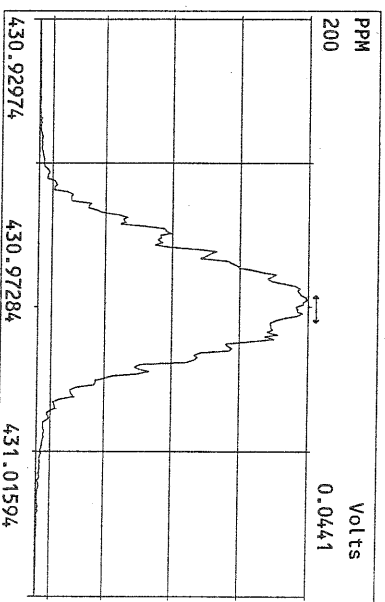
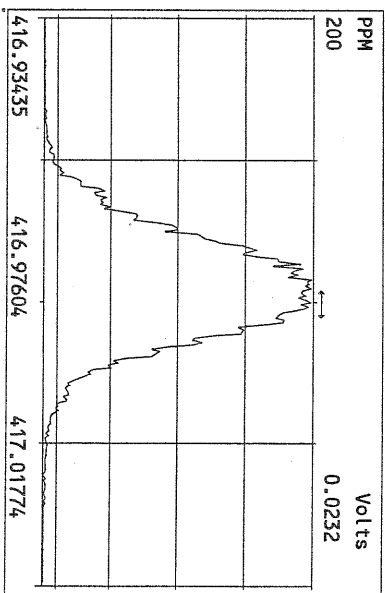
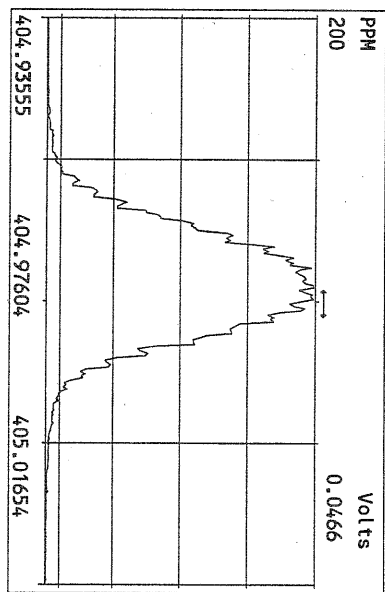
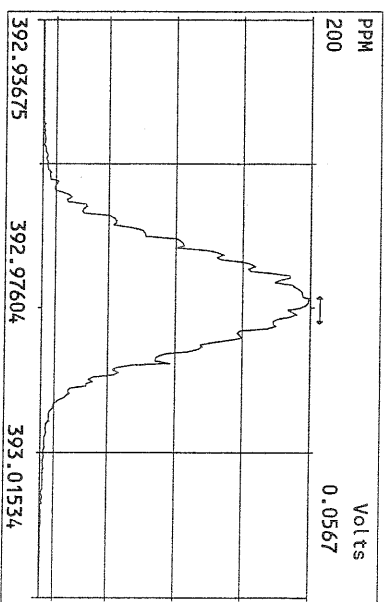
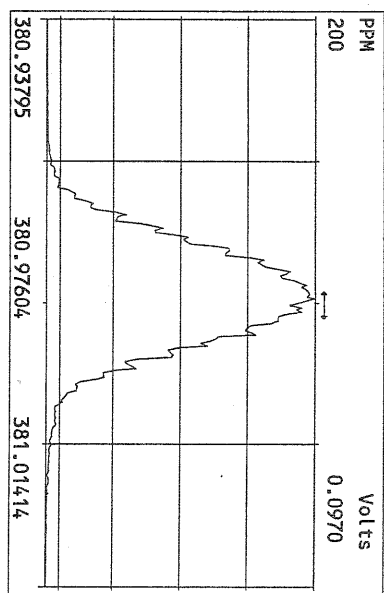
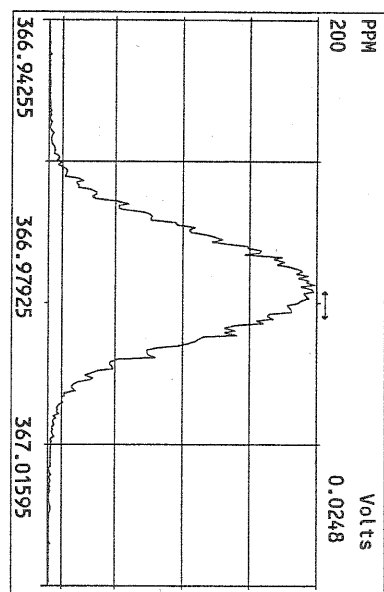
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513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081510M1 File Text:Frontier Analytical Laboratory
100 %

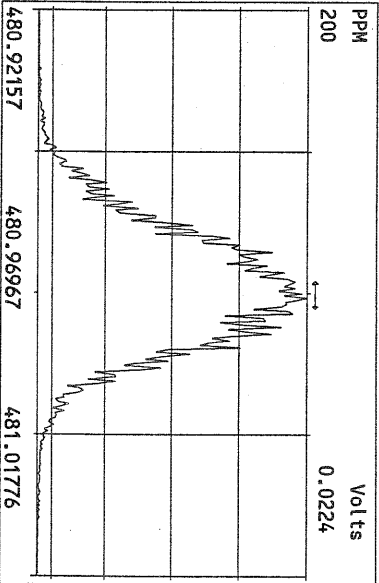
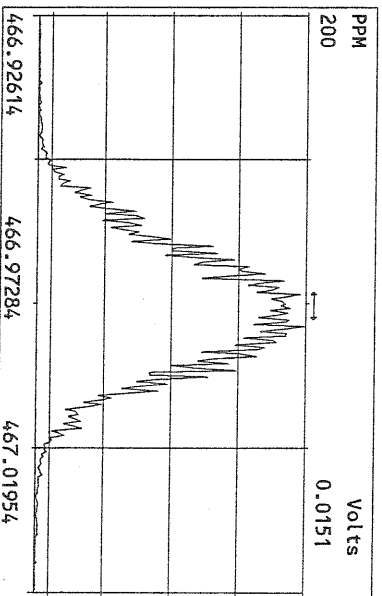
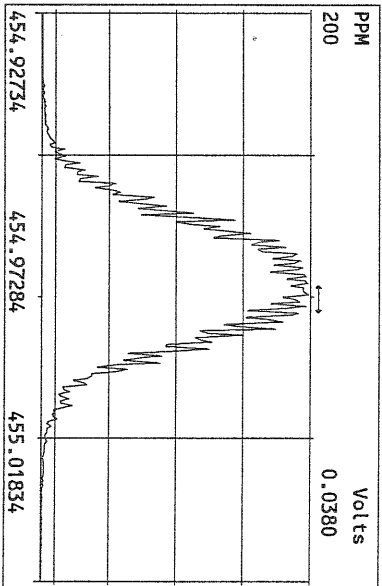
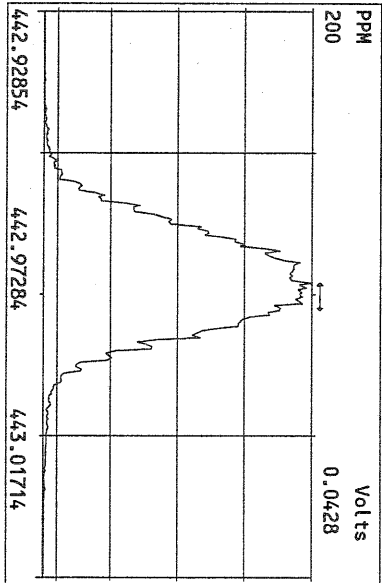
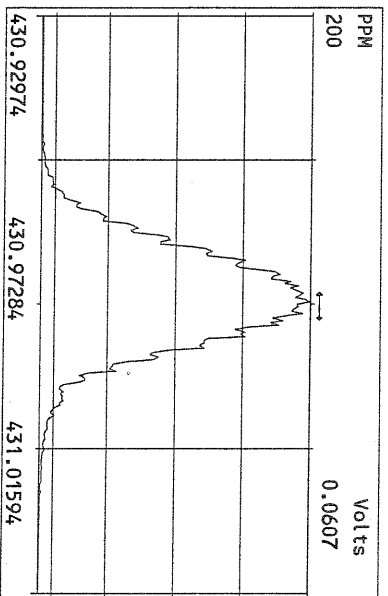
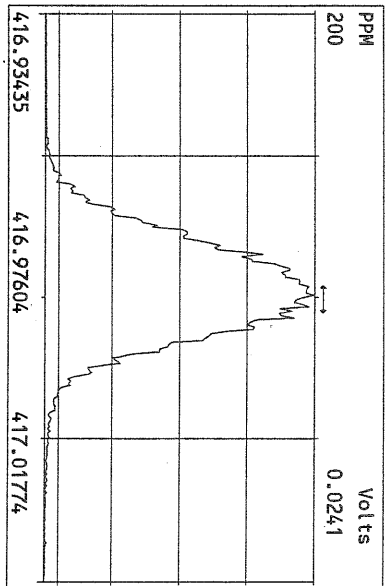
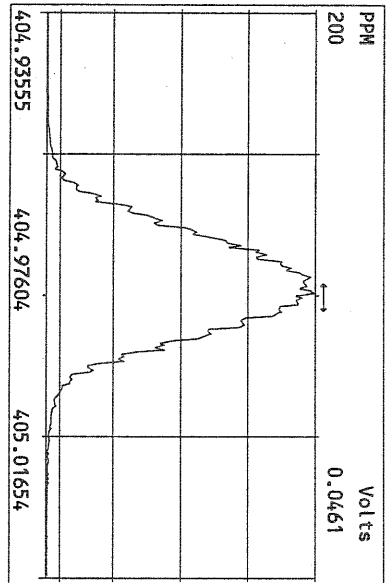


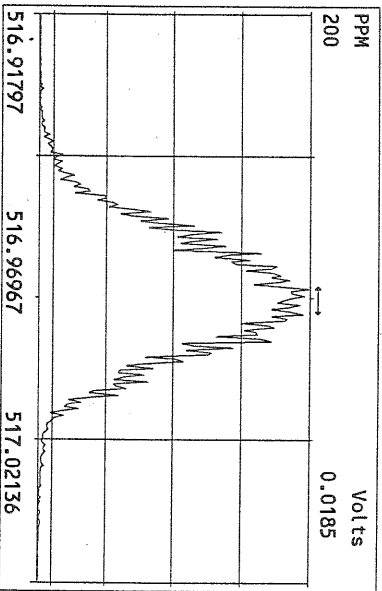
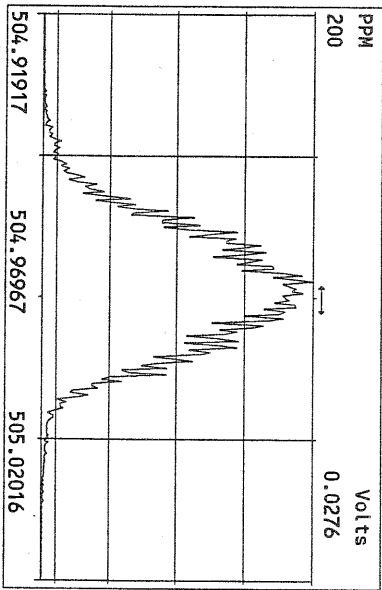
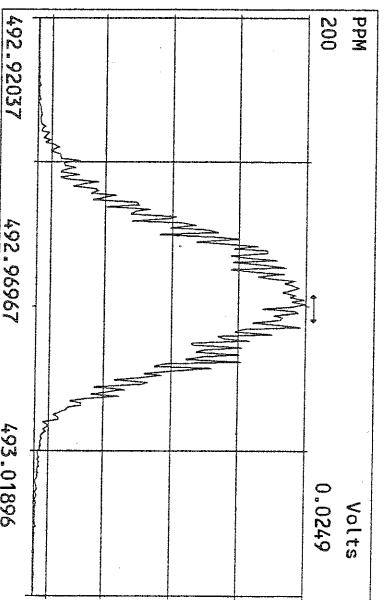
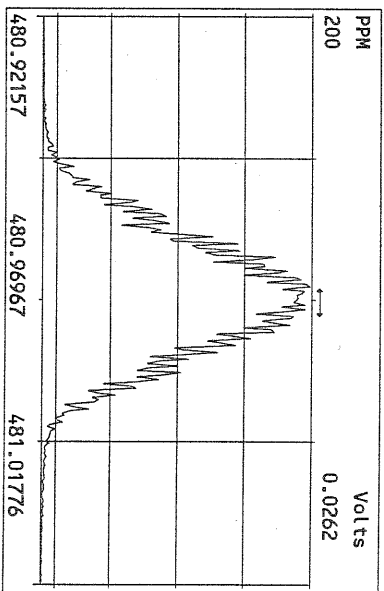
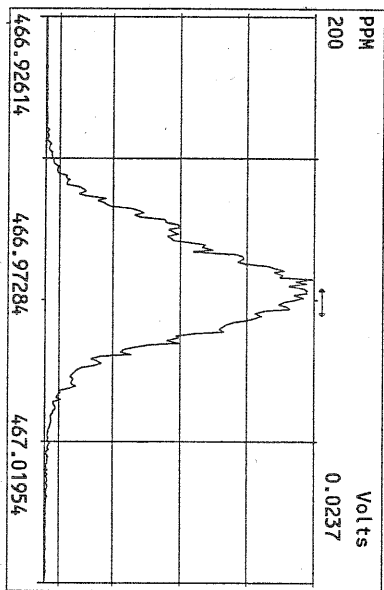
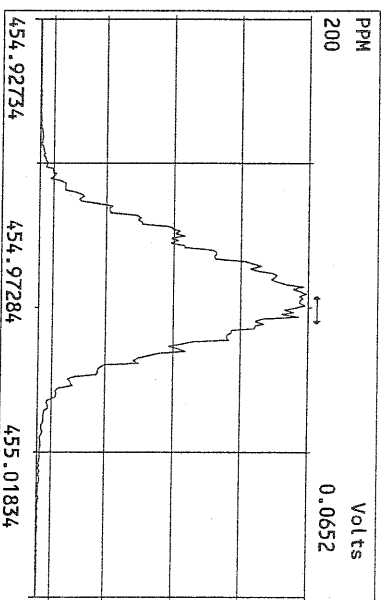
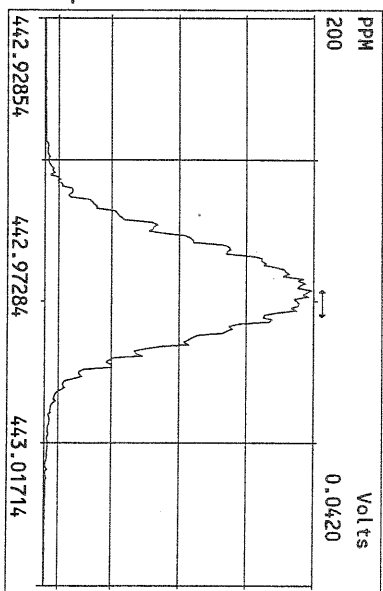
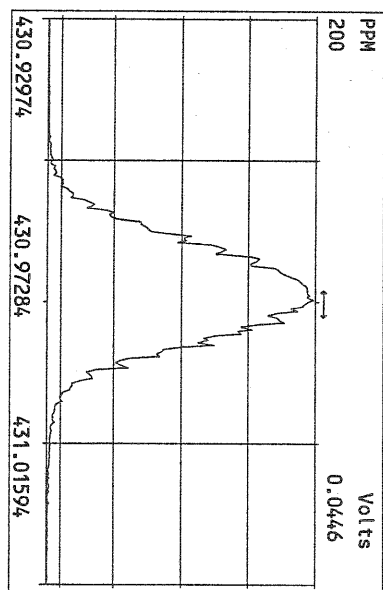
Peak Locate Examination:16-AUG-2010:08:28 File:15AUG10M_RES_CHECK
Experiment:PCDD Function:1 Reference:PK











USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 15AUG10M Sam:11

Analysis Date: 15-AUG-10 21:20:05

NATIVE ANALYTES	M/Z'S	ION	QC	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL), (3)
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			
2,3,7,8-TCDD	M/M+2	0.75	0.65-0.89	y	10.1	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.60	1.32-1.78	y	48.0	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.38	1.05-1.43	y	47.5	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.39	1.05-1.43	y	49.0	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.37	1.05-1.43	y	51.5	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.01	0.88-1.20	y	47.2	43.0 - 58.0 ✓
OCDD	M+2/M+4	0.94	0.76-1.02	y	104	79.0 - 126 ✓
2,3,7,8-TCDF	M/M+2	0.70	0.65-0.89	y	8.86	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.45	1.32-1.78	y	48.8	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.44	1.32-1.78	y	46.4	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	45.1	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	45.9	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	45.2	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.28	1.05-1.43	y	45.3	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	45.7	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.04	0.88-1.20	y	45.0	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.88	0.76-1.02	y	92.0	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: JDate: 8/16/10

Frontier Analytical Laboratory - Acquisition Log

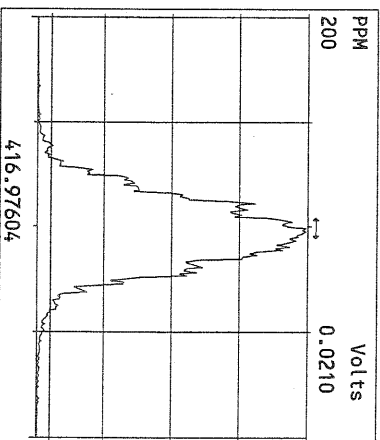
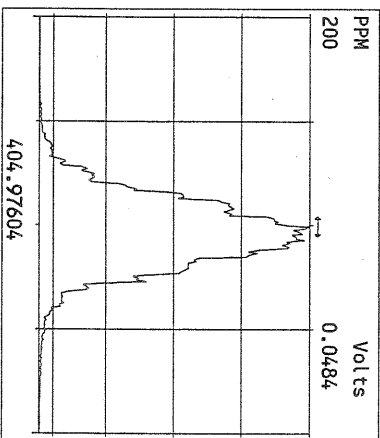
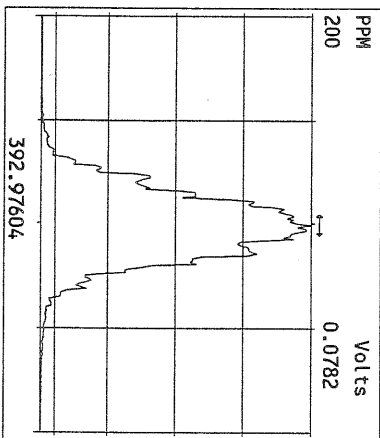
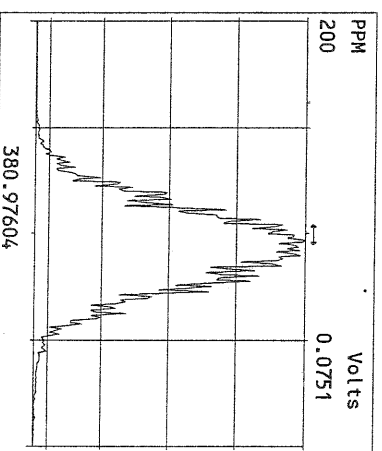
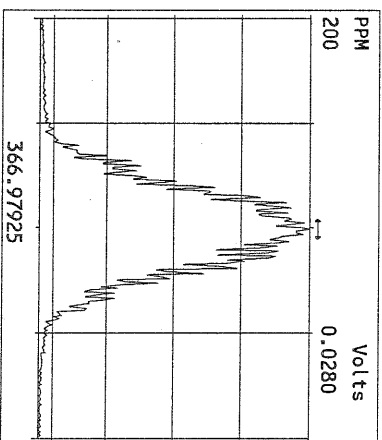
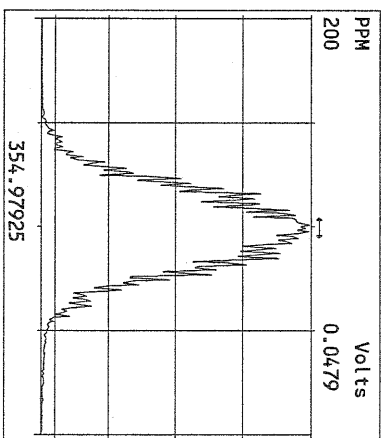
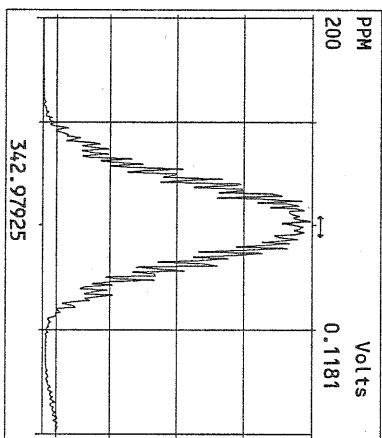
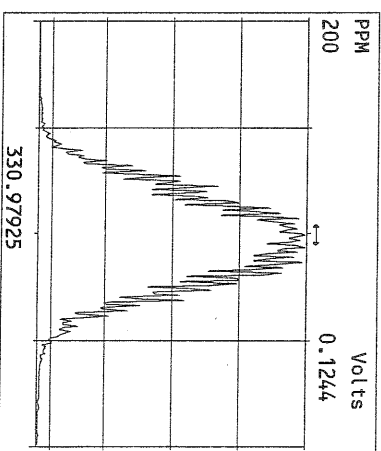
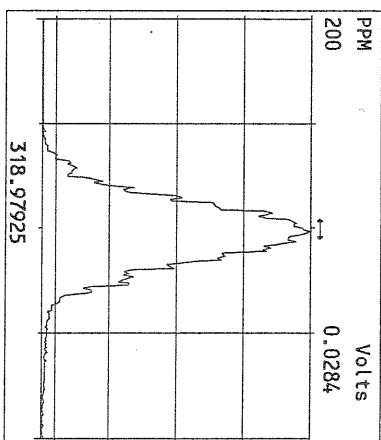
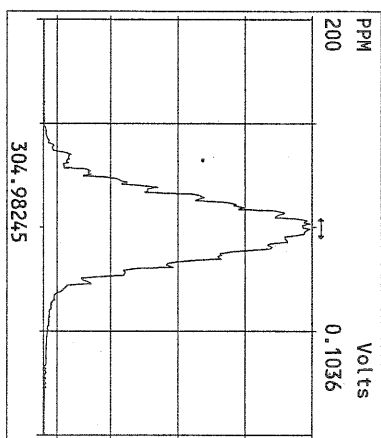
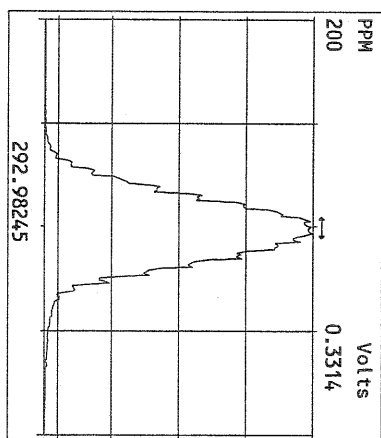
Run Name:15AUG10M Instrument: FAL3 GC: DB5 Experiment:PCDD

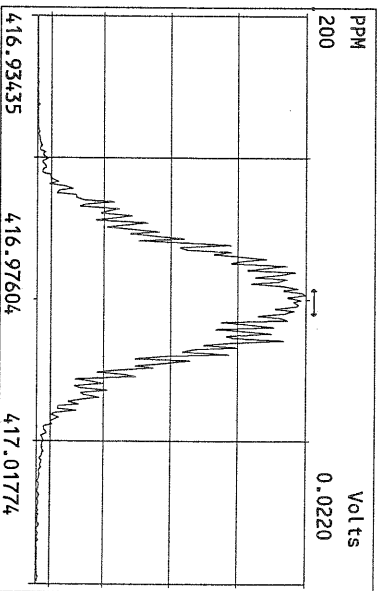
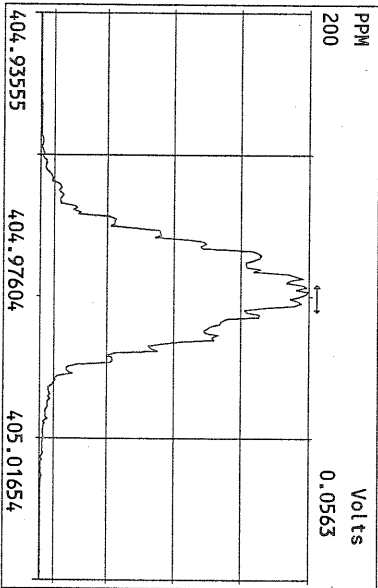
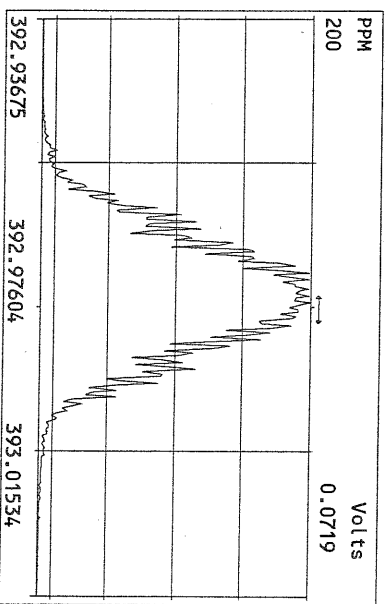
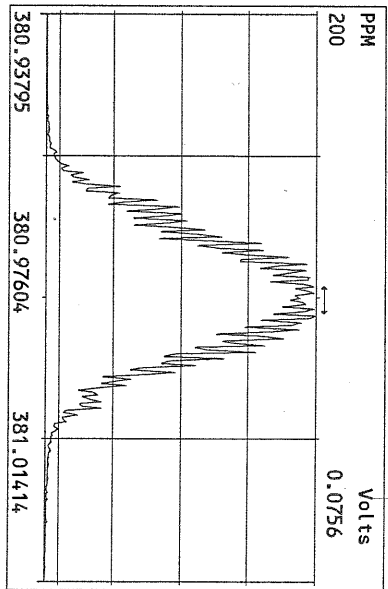
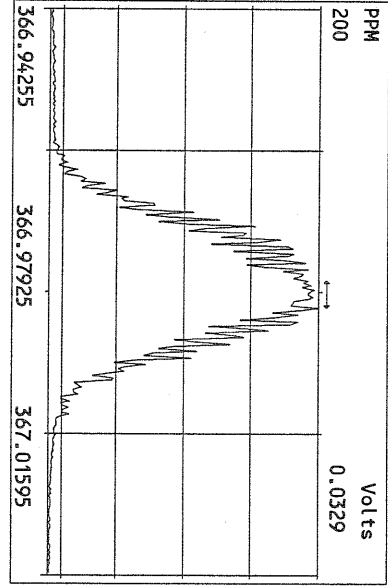
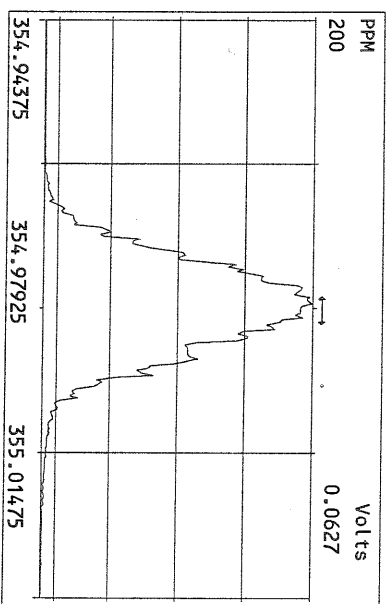
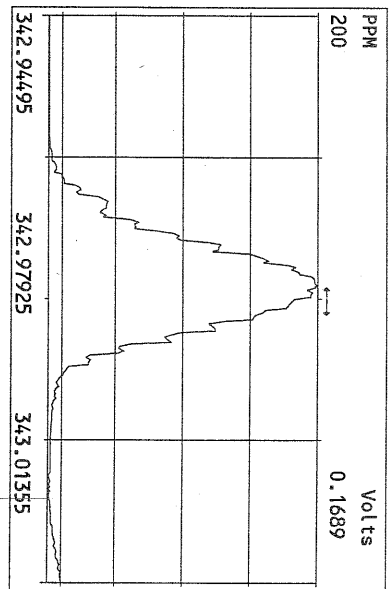
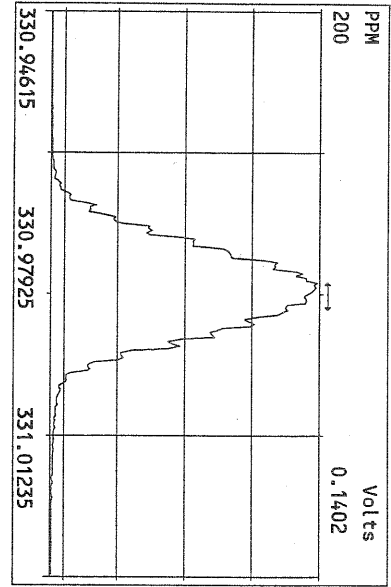
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15AUG10M 4	6273-006-0001-SA	PSB06-1.5-2.0-072810 1:~	15-AUG-10 14:52:40	ST081510M1	ST081510M2	DV
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15AUG10M 12	2079-001-0001-OPR	OPR	15-AUG-10 22:15:23	ST081510M2	ST081510M3	DV
15AUG10M 13	2079-001-0001-MB	Method Blank	15-AUG-10 23:10:37	ST081510M2	ST081510M3	DV
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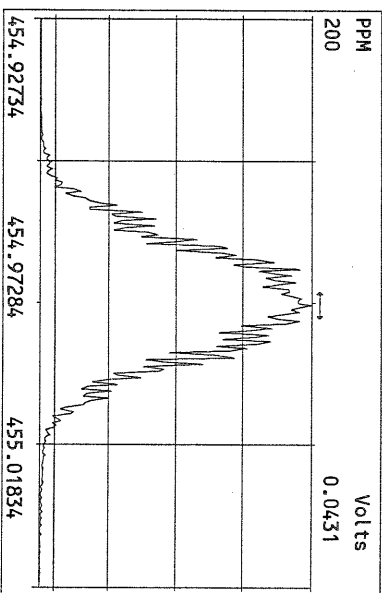
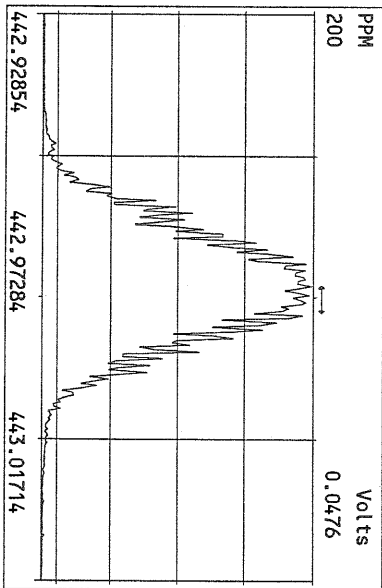
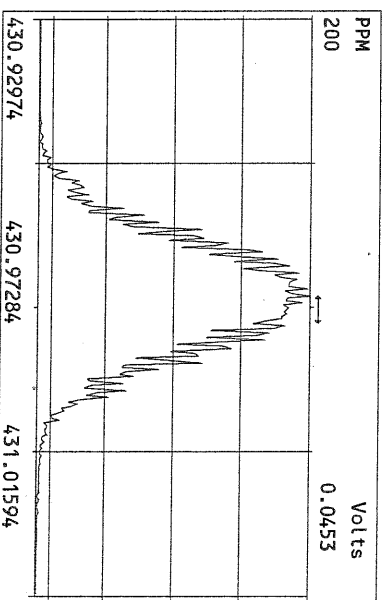
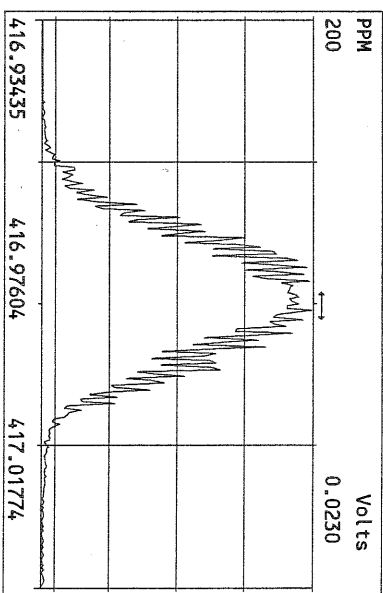
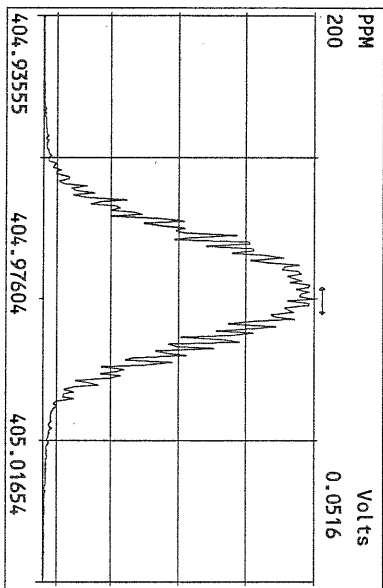
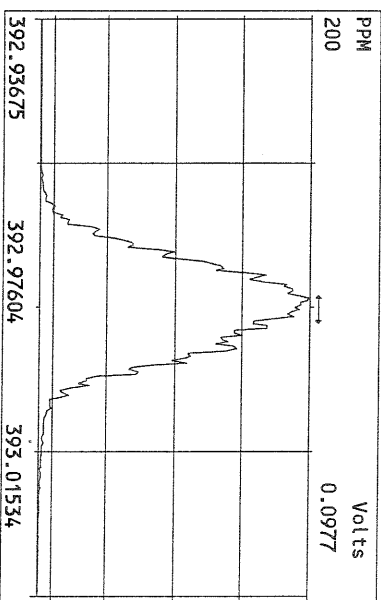
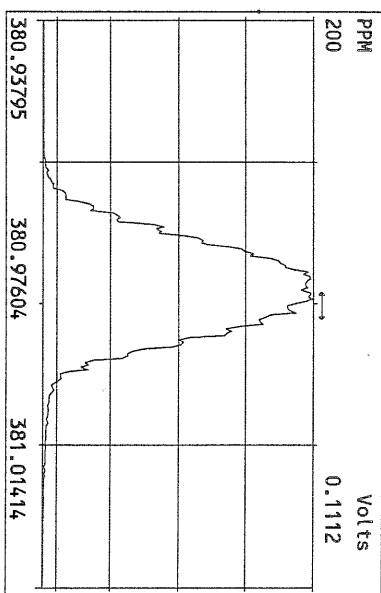
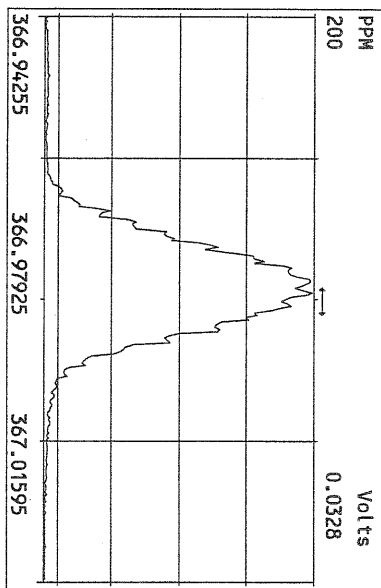
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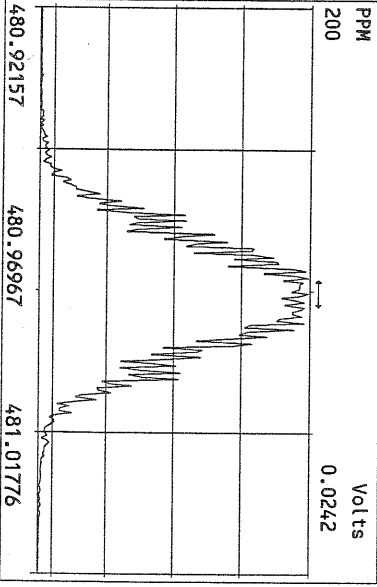
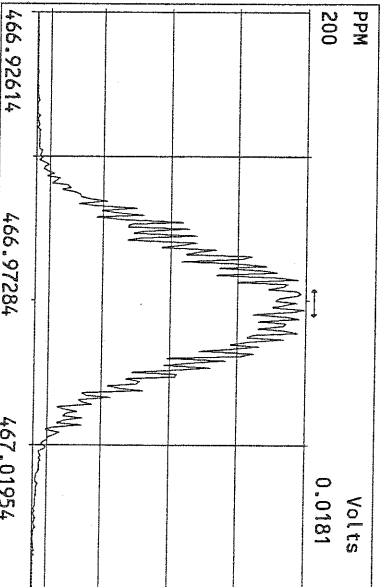
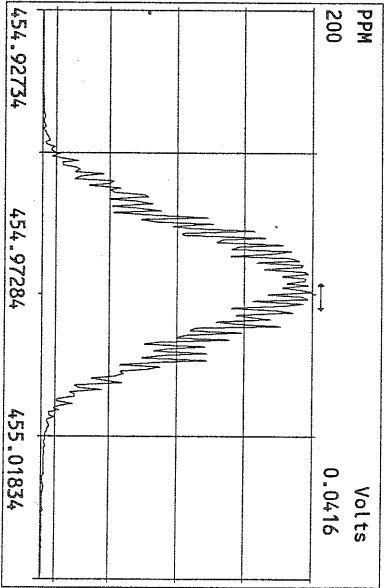
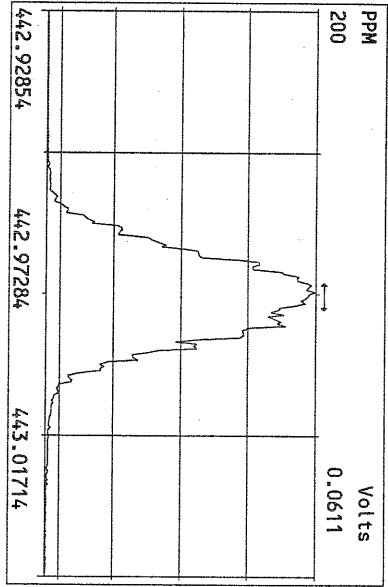
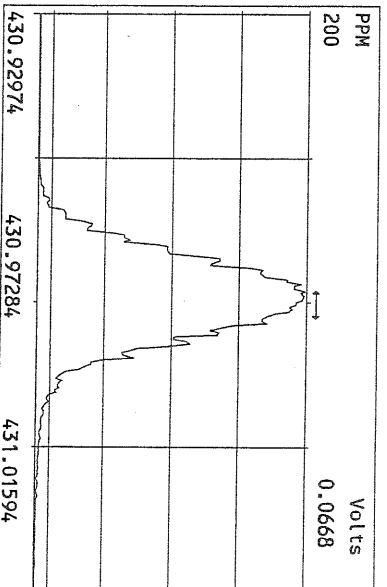
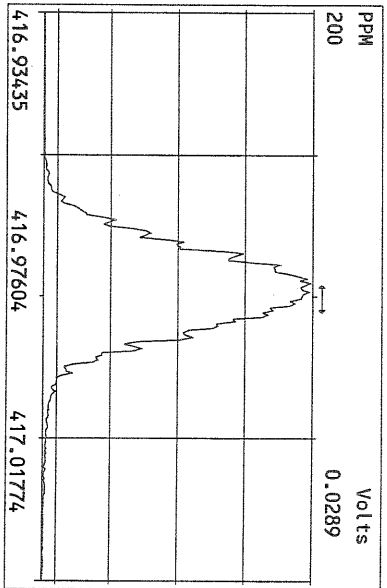
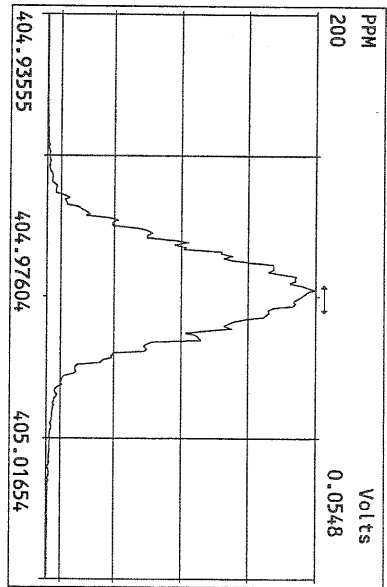
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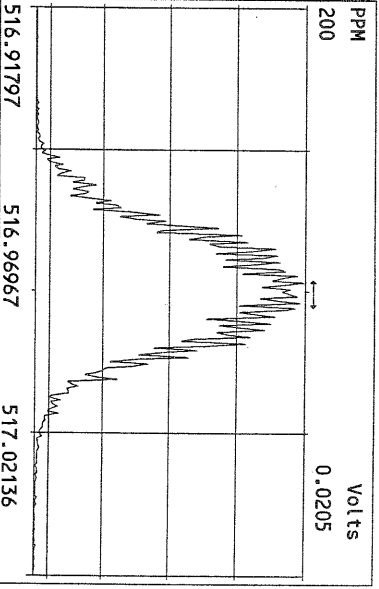
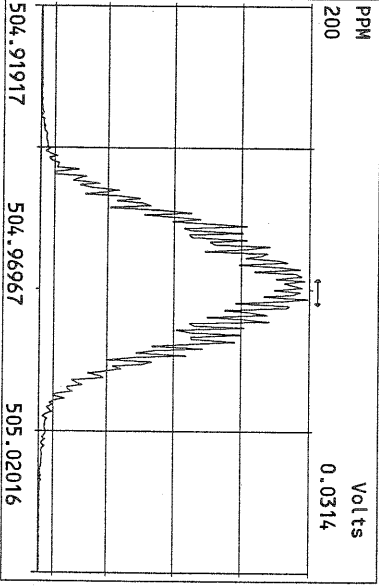
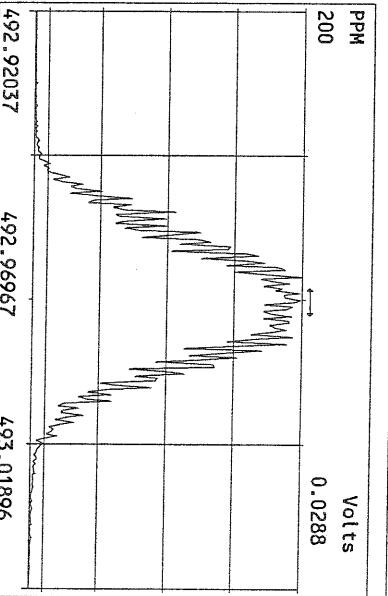
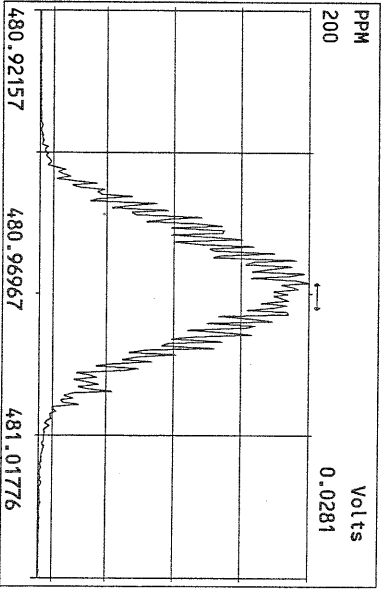
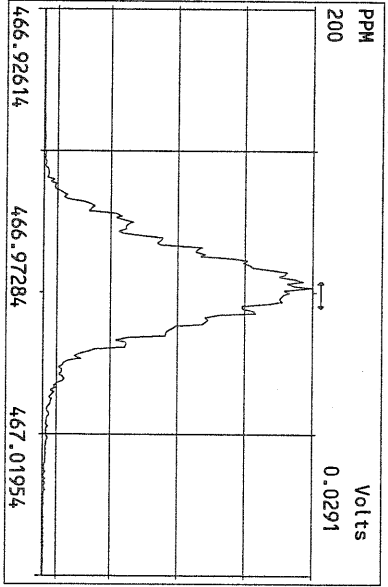
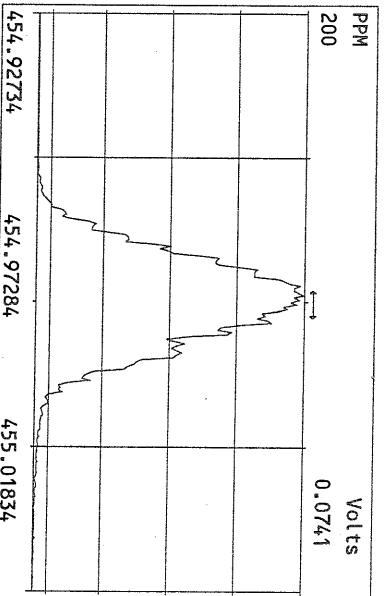
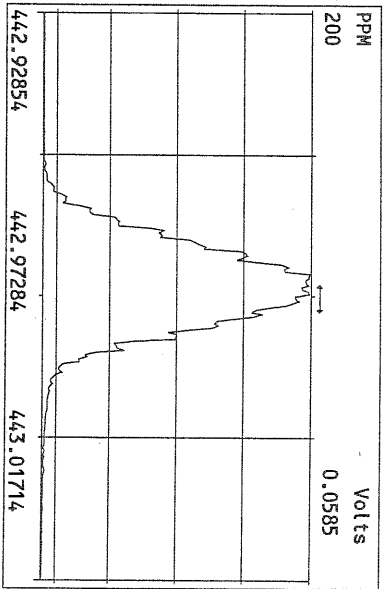
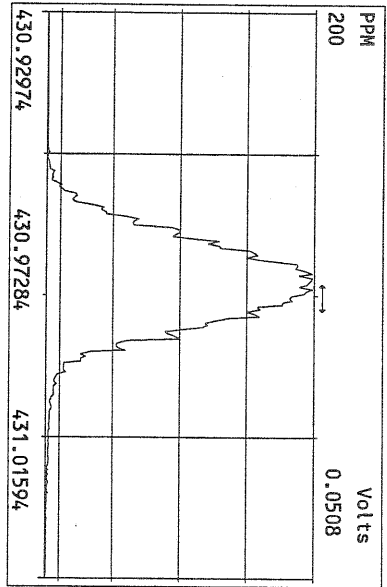
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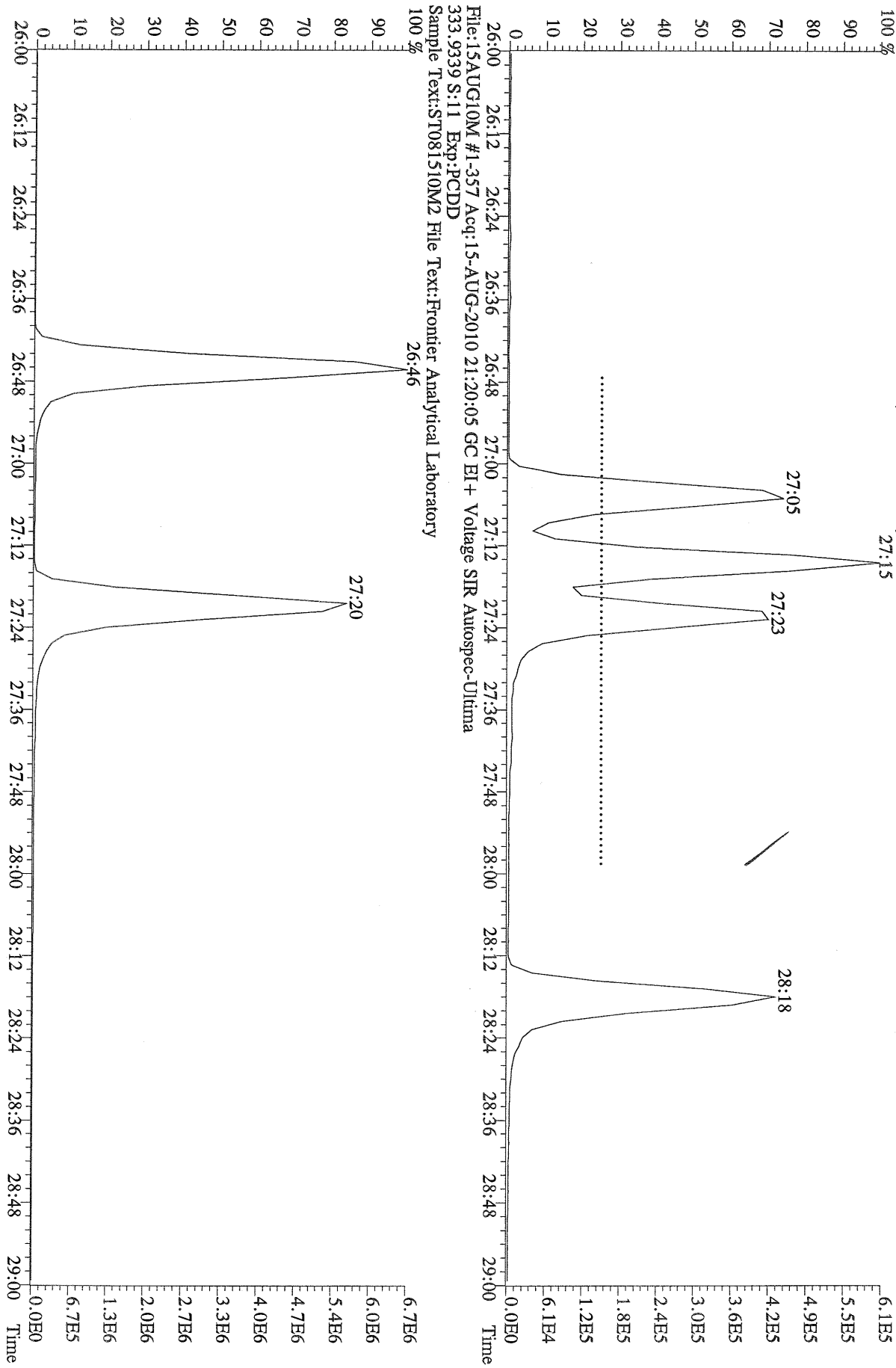




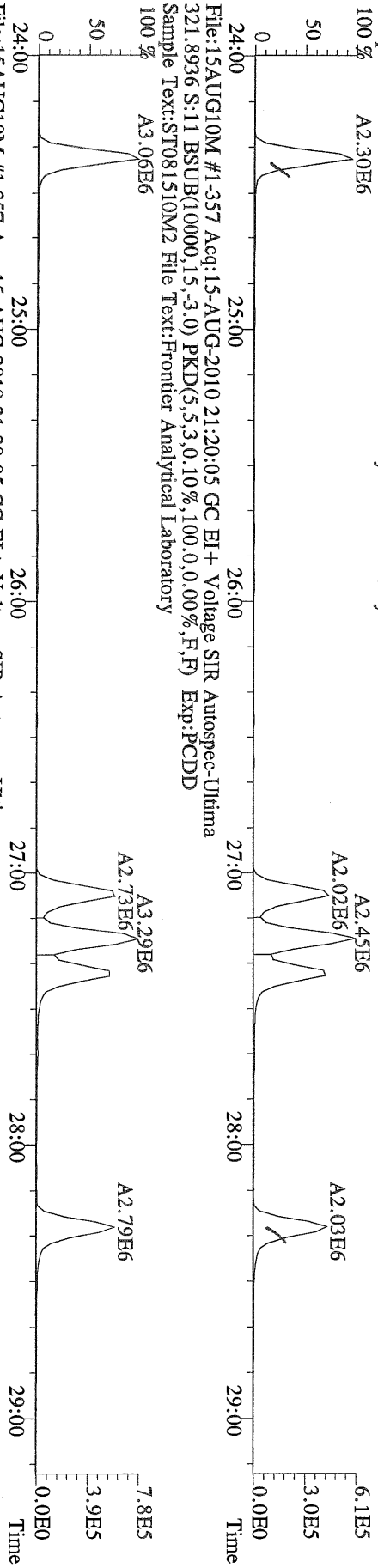




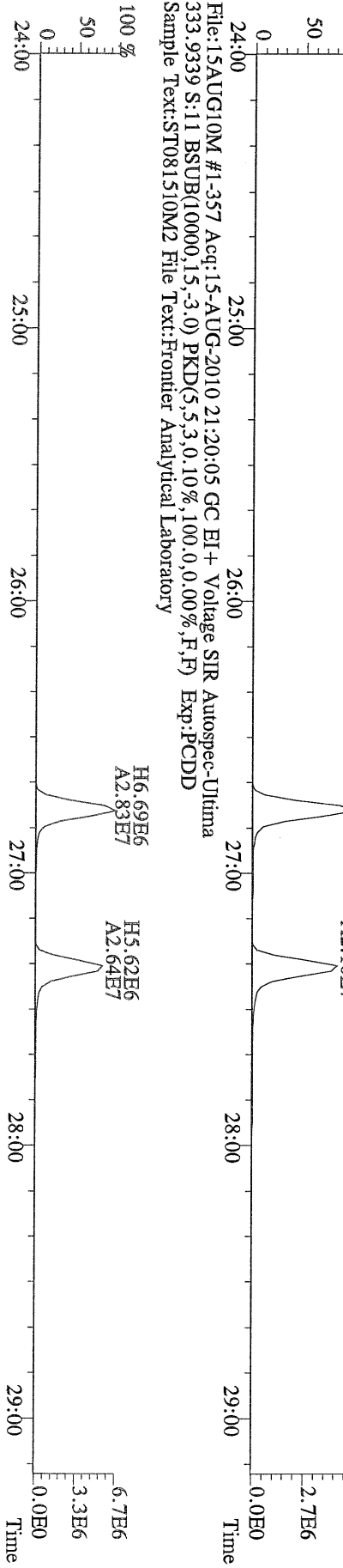
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Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



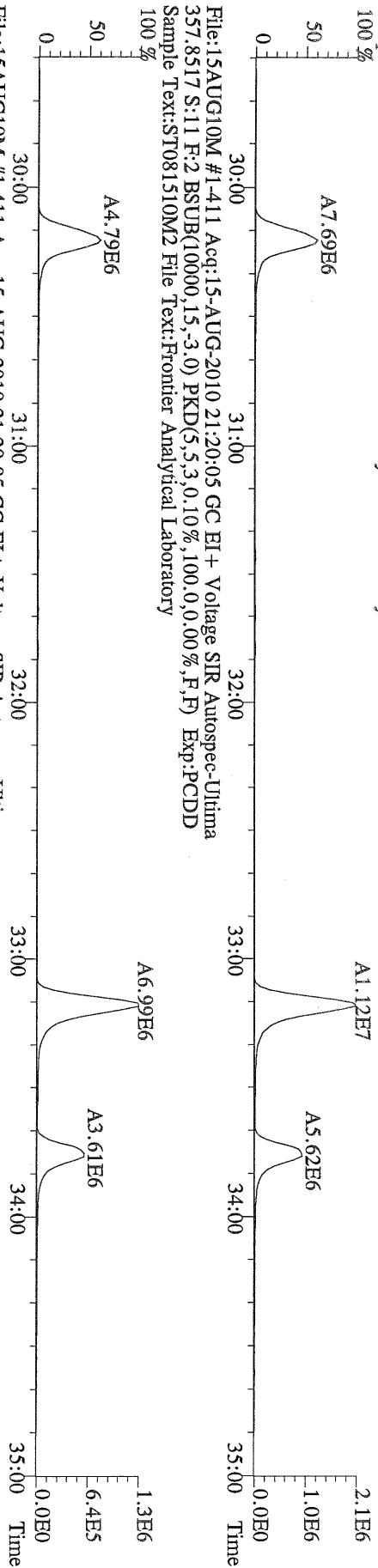
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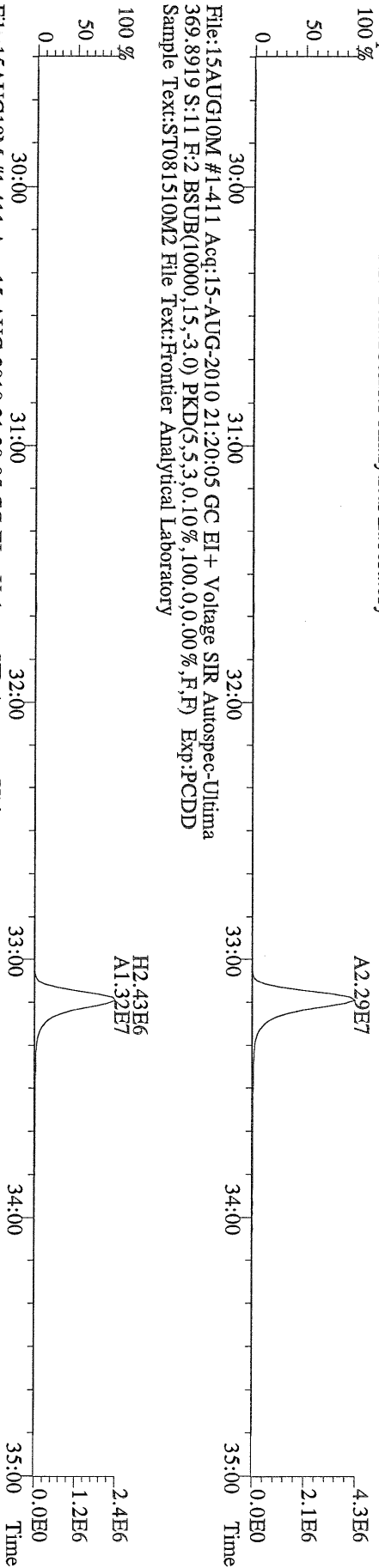
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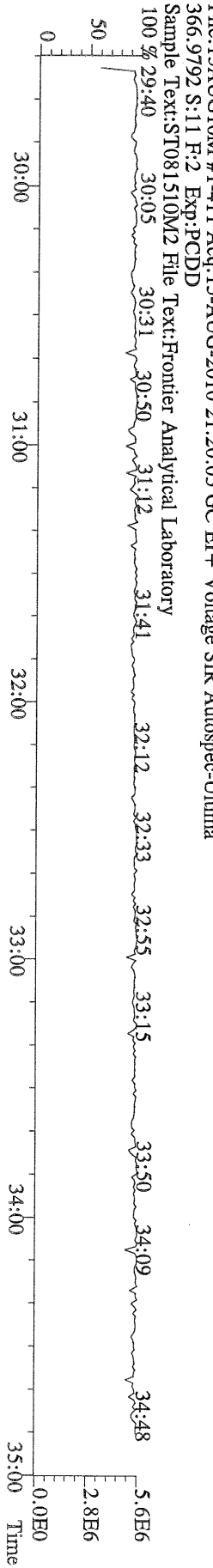
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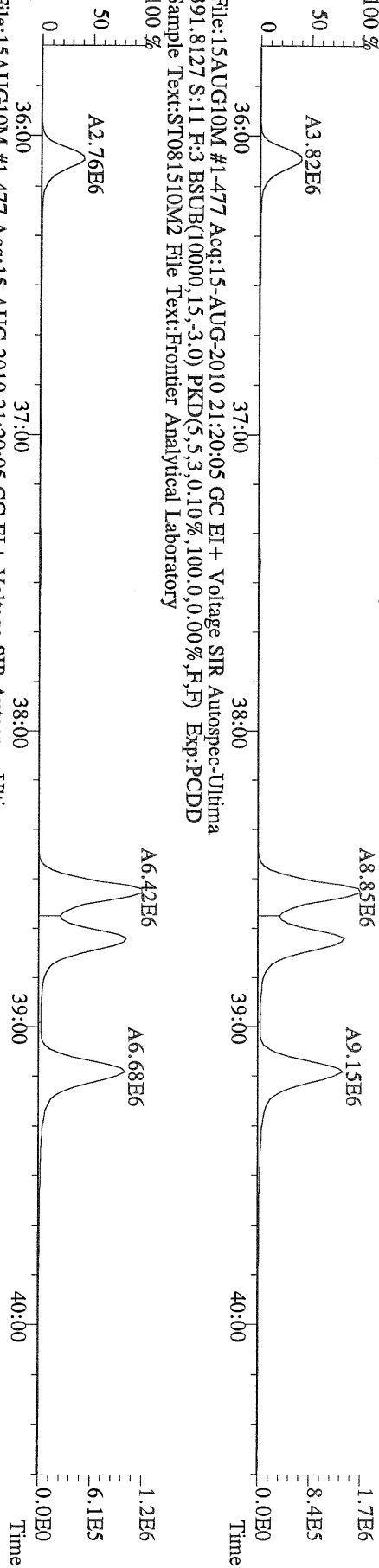


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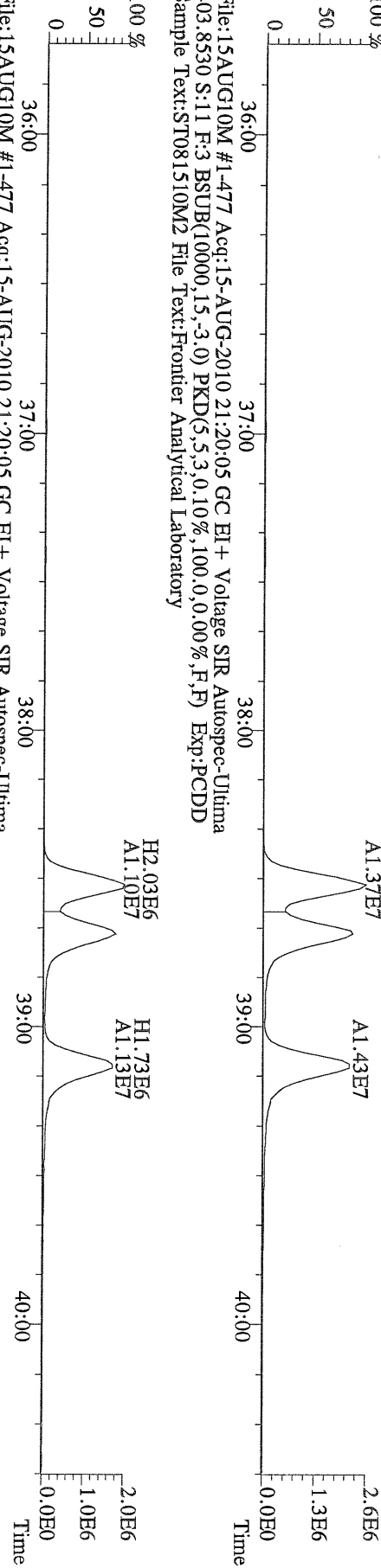


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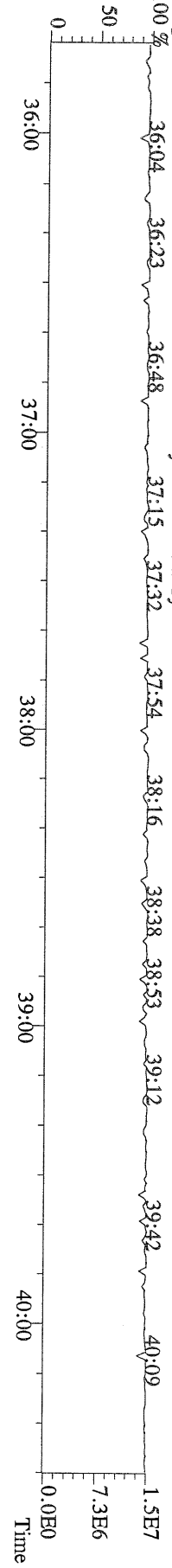
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389.8156 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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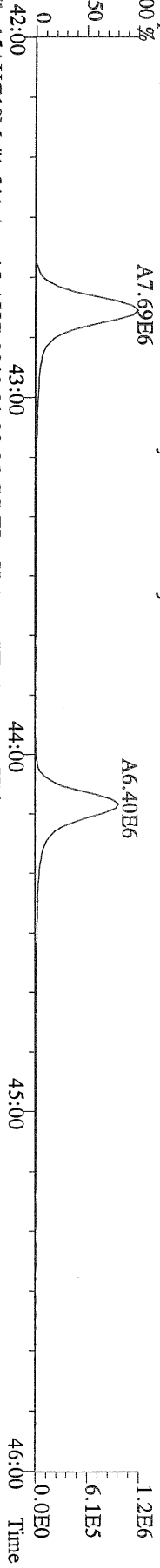
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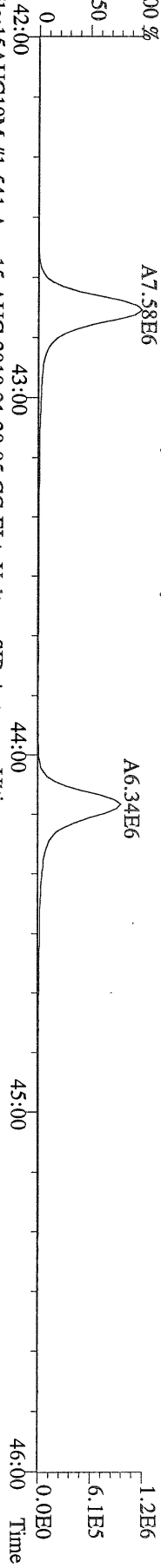
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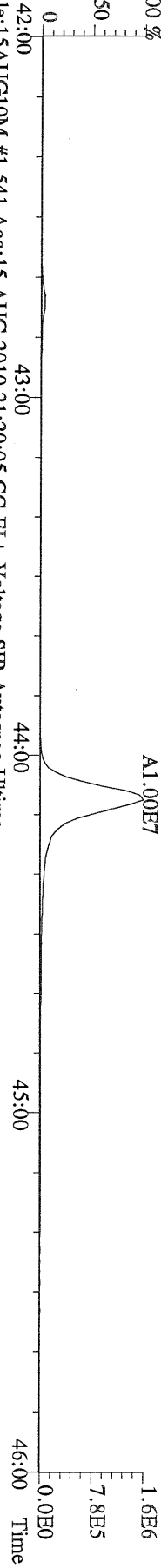
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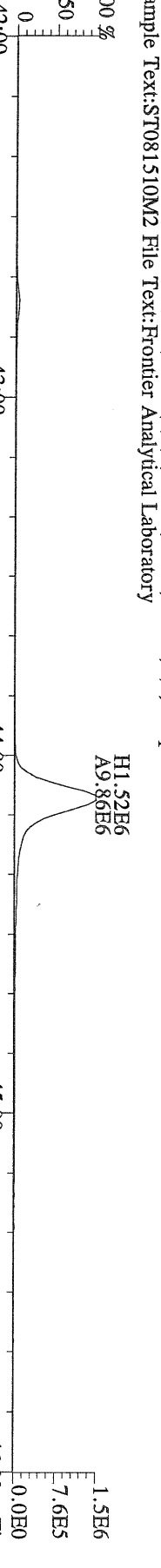
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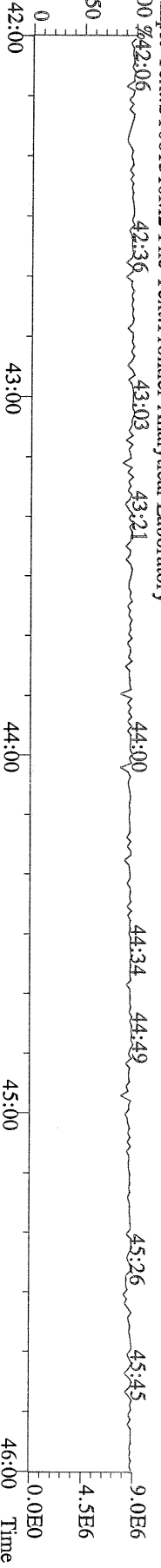
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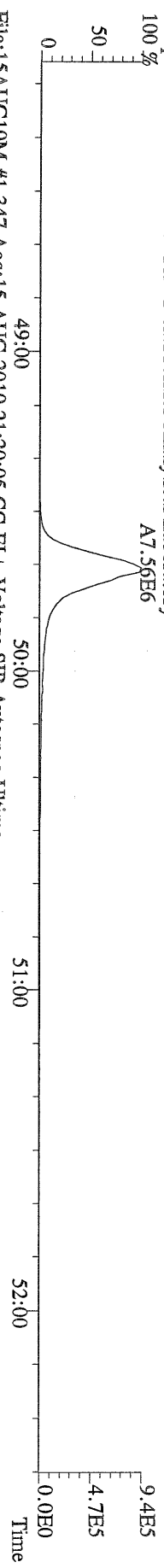
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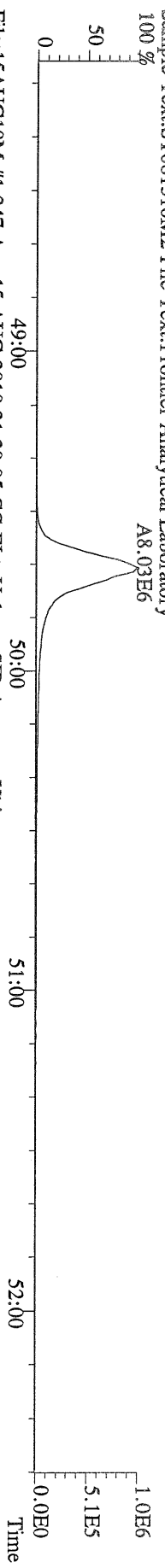
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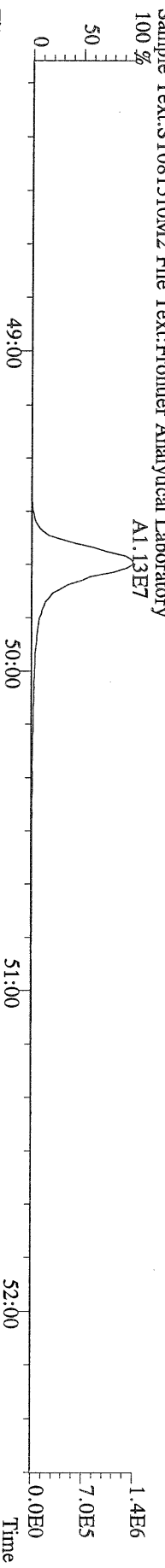
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Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory
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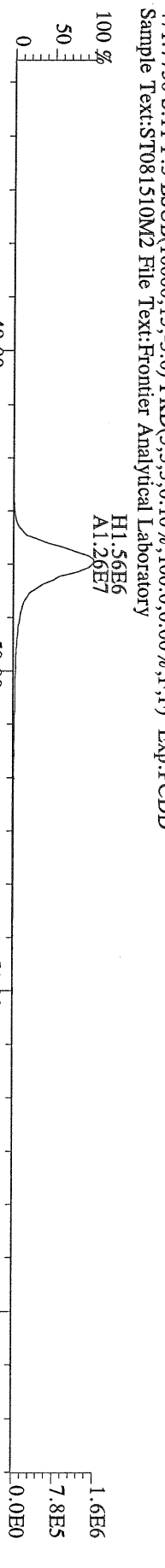
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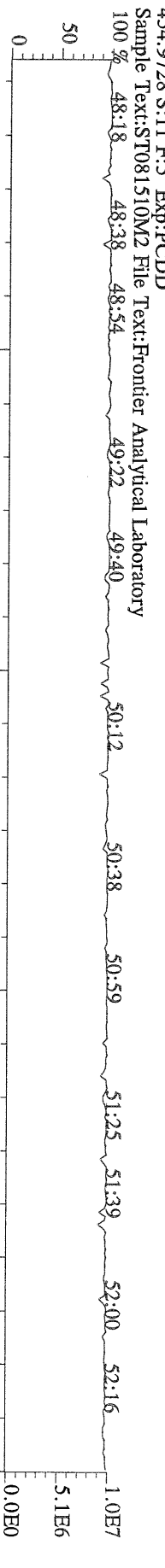
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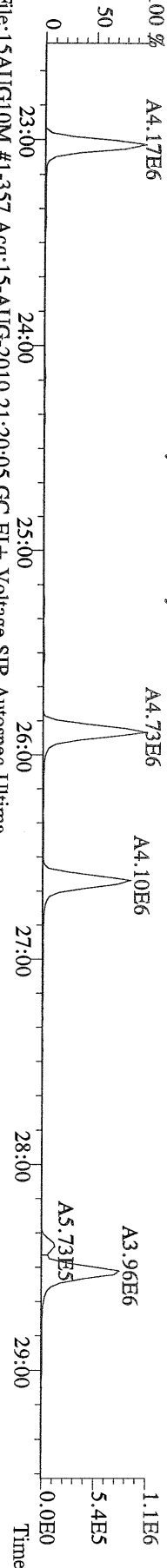
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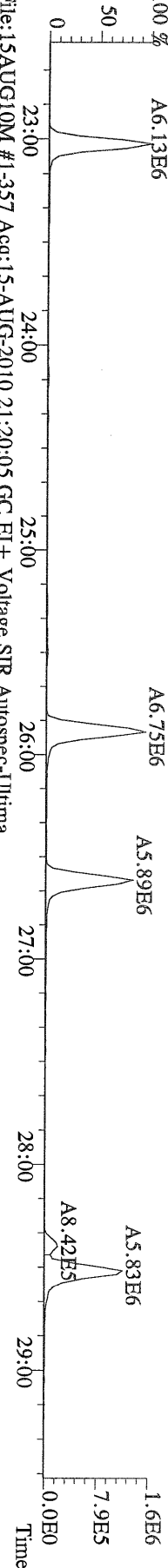
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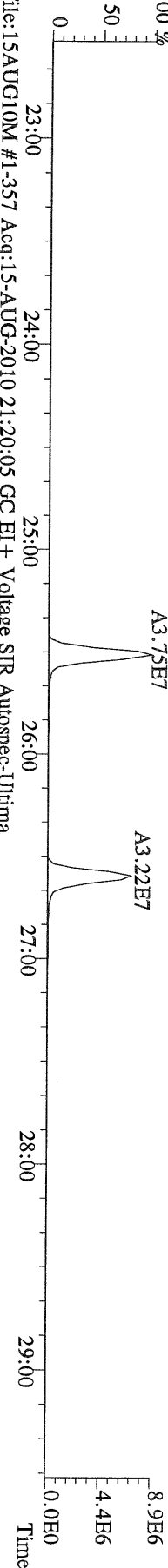
File:15AUG10M #1-357 Acq:15-AUG-2010 21:20:05 GC EI + Voltage SIR Autospec-Ultima
 303.9016 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



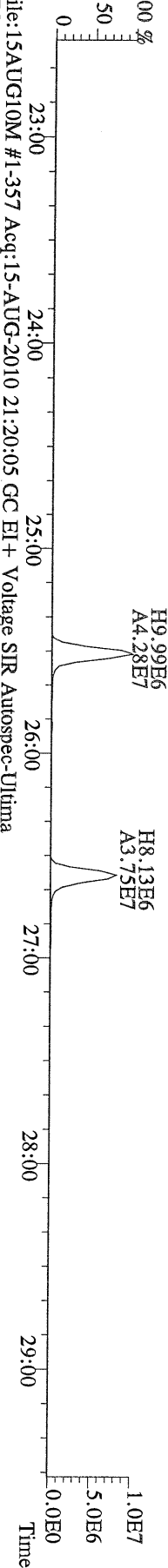
File:15AUG10M #1-357 Acq:15-AUG-2010 21:20:05 GC EI + Voltage SIR Autospec-Ultima
 305.8987 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



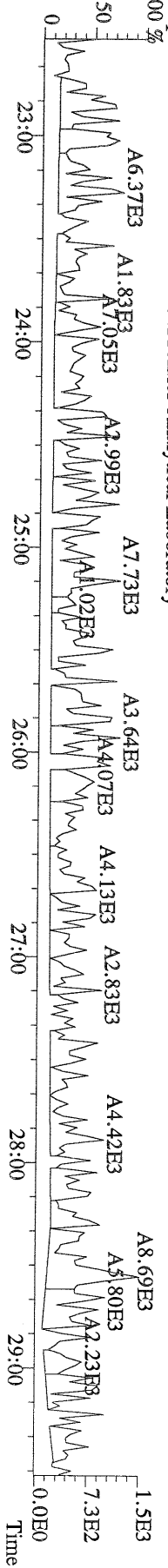
File:15AUG10M #1-357 Acq:15-AUG-2010 21:20:05 GC EI + Voltage SIR Autospec-Ultima
 315.9419 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



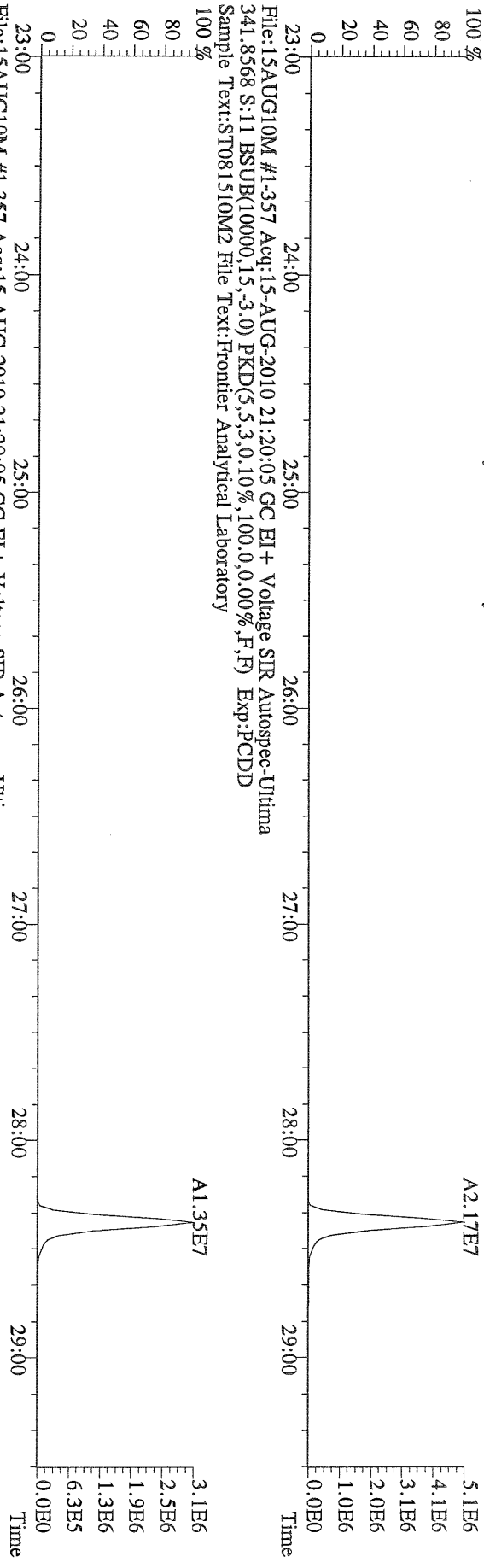
File:15AUG10M #1-357 Acq:15-AUG-2010 21:20:05 GC EI + Voltage SIR Autospec-Ultima
 317.9389 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



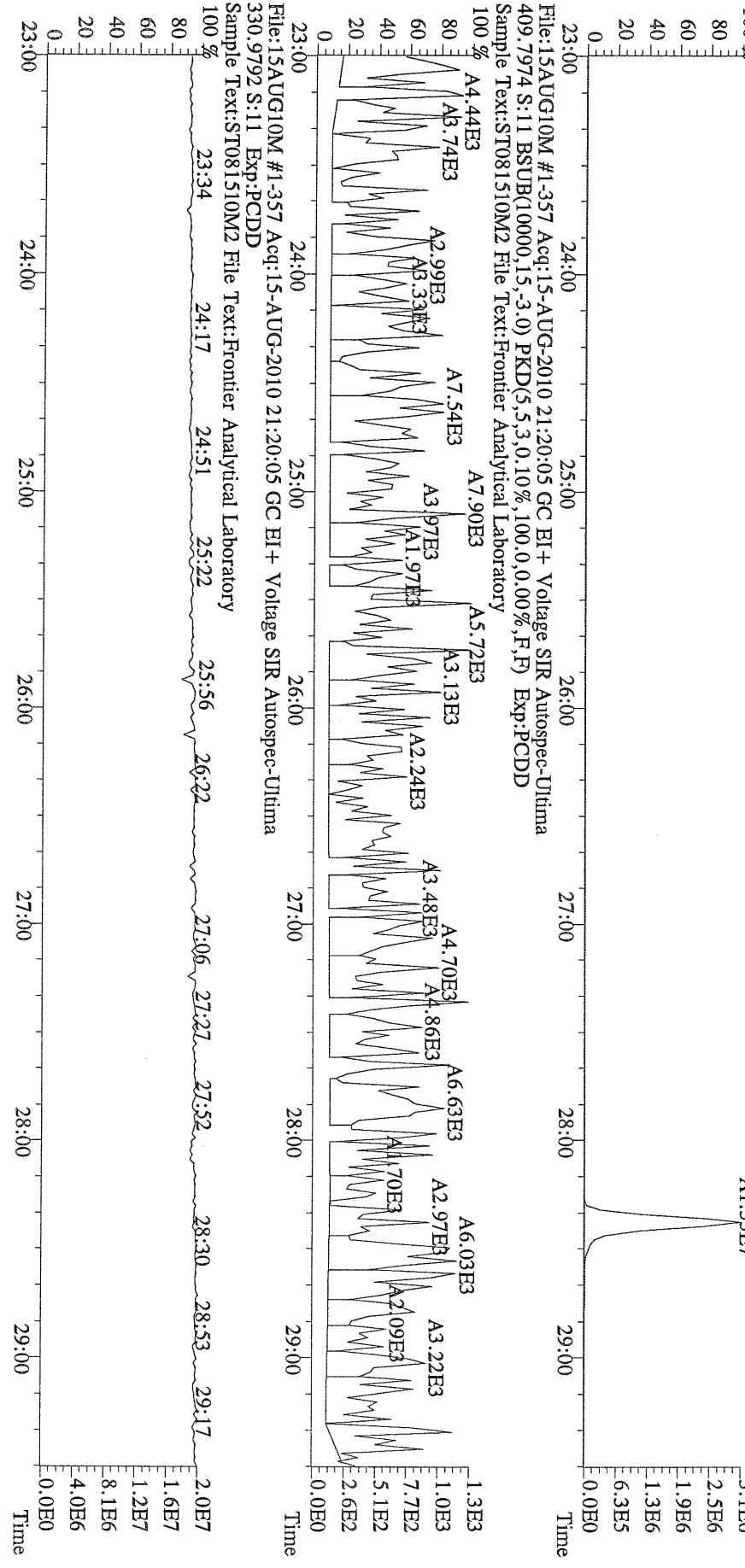
File:15AUG10M #1-357 Acq:15-AUG-2010 21:20:05 GC EI + Voltage SIR Autospec-Ultima
 375.8364 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



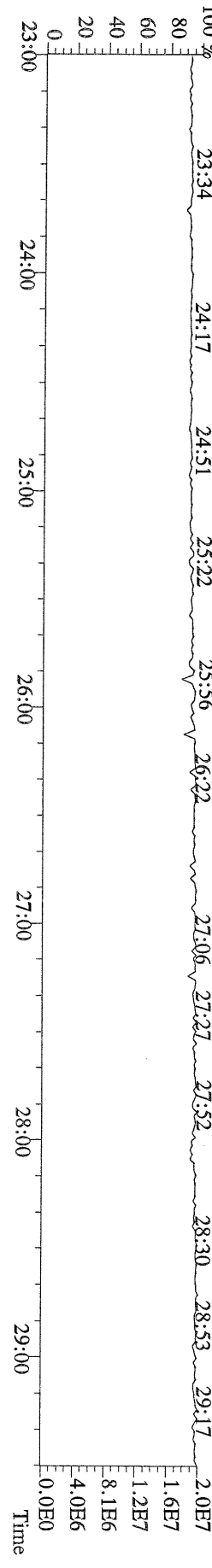
File:15AUG10M #1-357 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



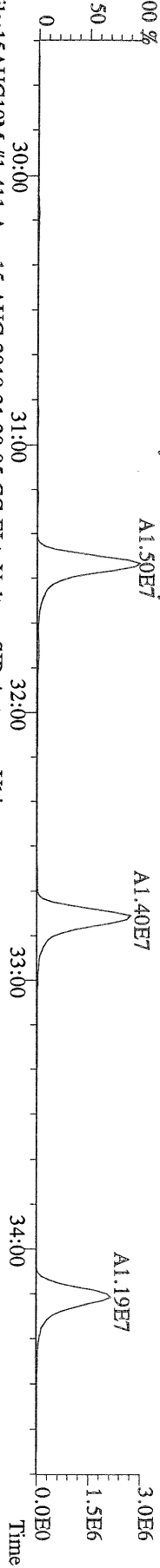
File:15AUG10M #1-357 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



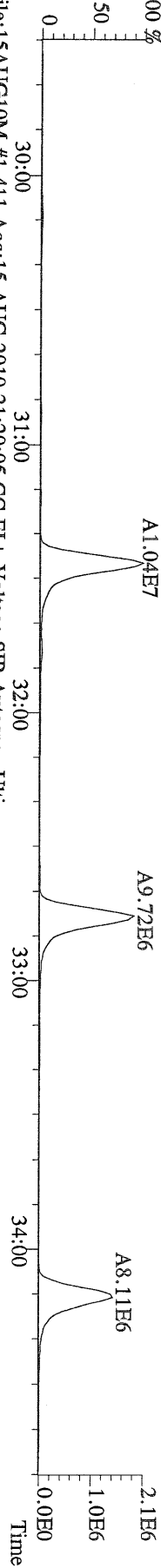
File:15AUG10M #1-357 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S:11 Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



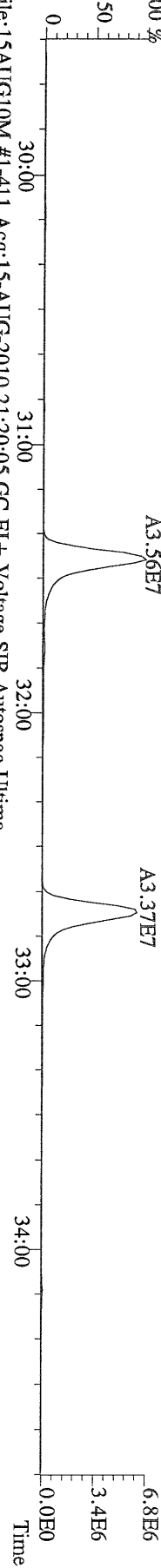
File:15AUG10M #1-411 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



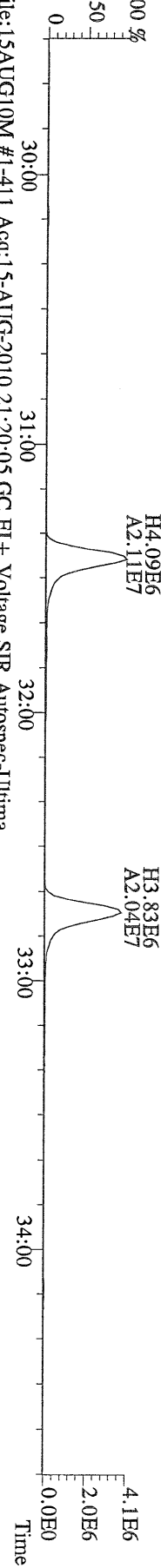
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 341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



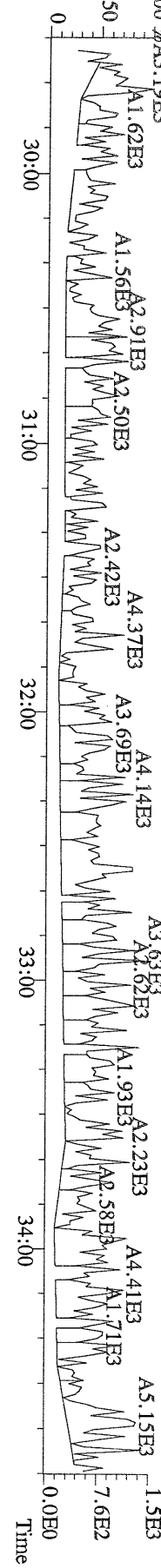
File:15AUG10M #1-411 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



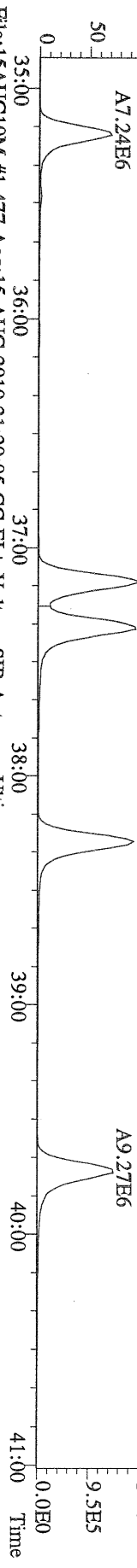
File:15AUG10M #1-411 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



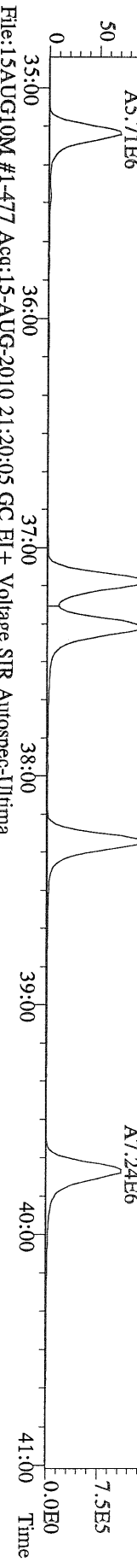
File:15AUG10M #1-411 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



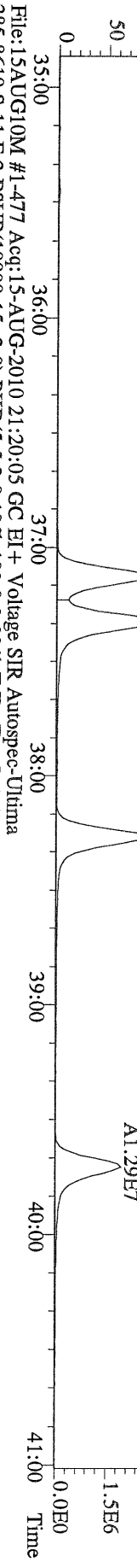
File:15AUG10M #1-477 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



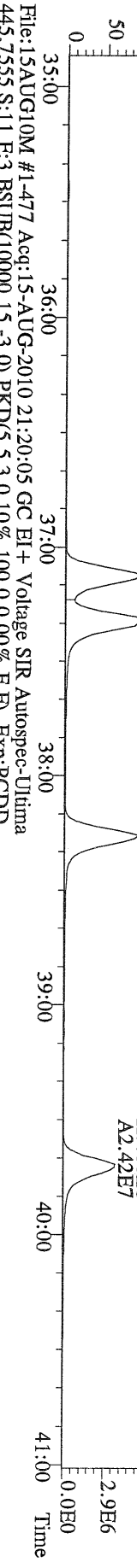
File:15AUG10M #1-477 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
 375.8178 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



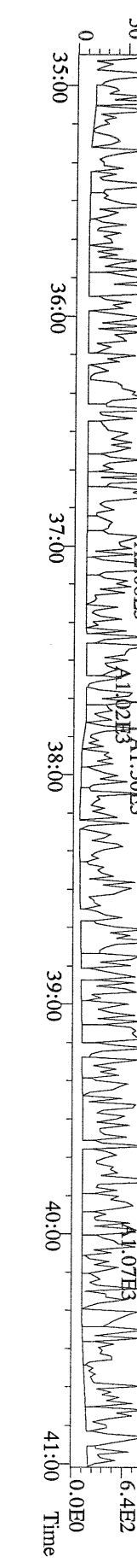
File:15AUG10M #1-477 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
 383.8639 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



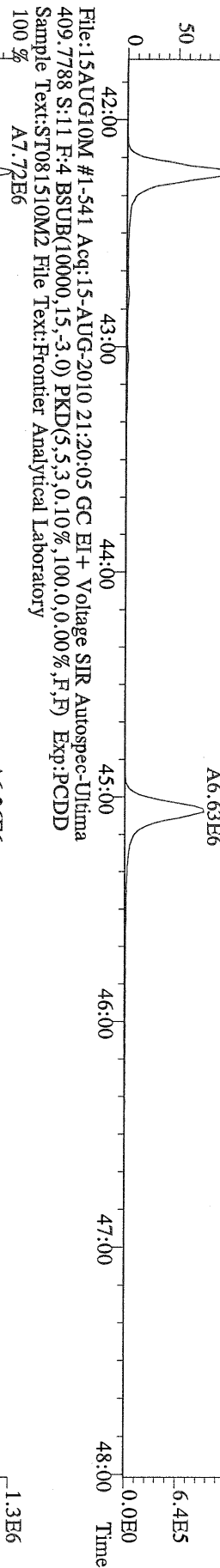
File:15AUG10M #1-477 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
 385.8610 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



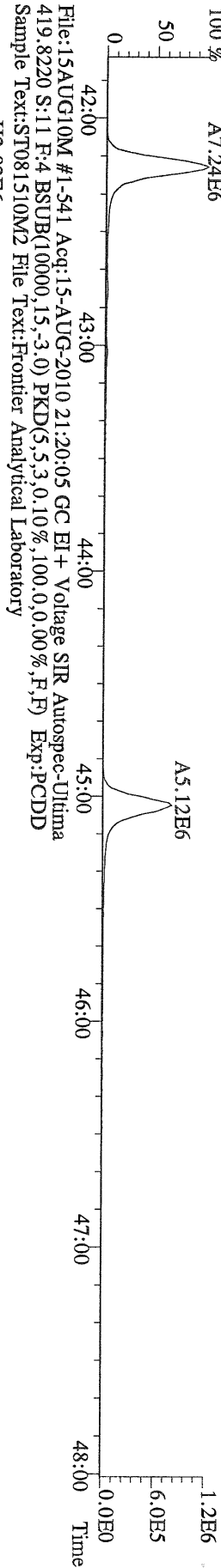
File:15AUG10M #1-477 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
 445.7555 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



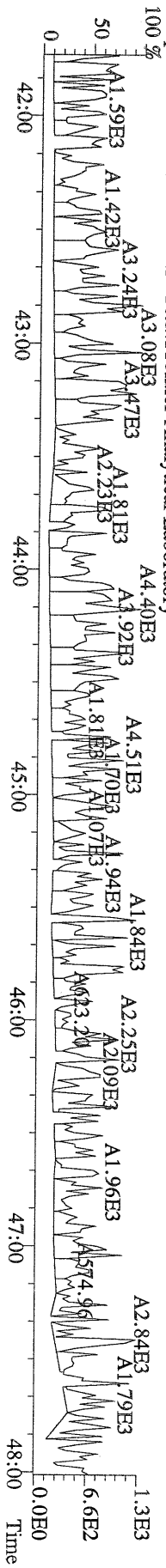
File:15AUG10M #1-541 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



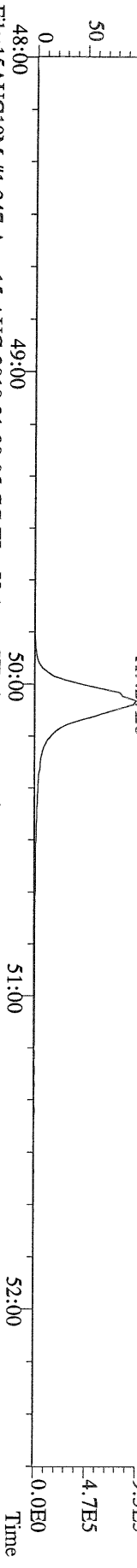
File:15AUG10M #1-541 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



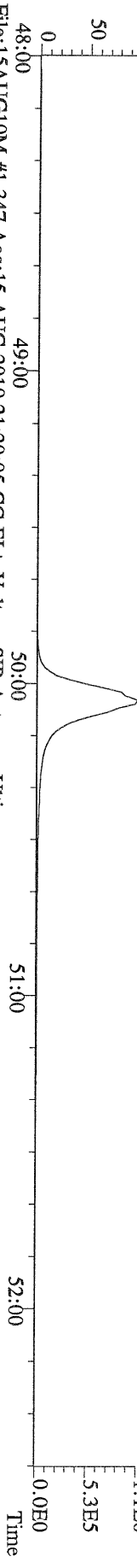
File:15AUG10M #1-541 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



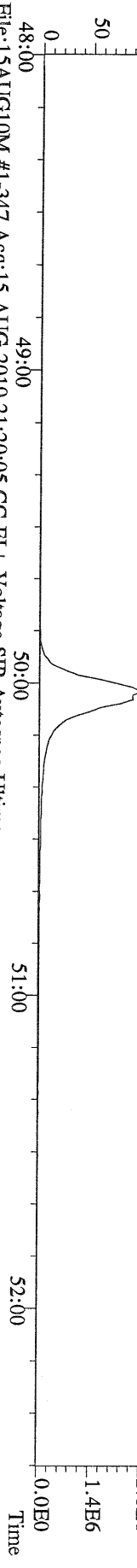
File:15AUG10M #1-347 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



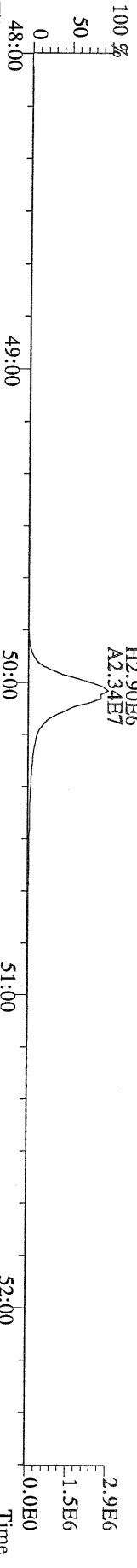
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443.7398 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory



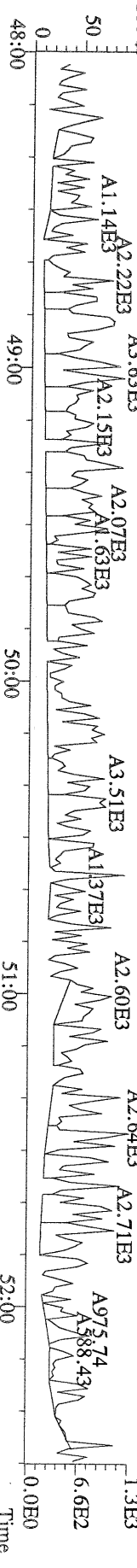
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453.7831 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory

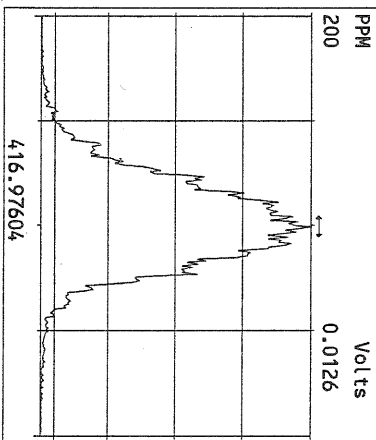
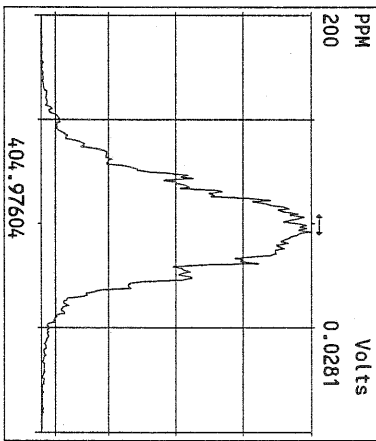
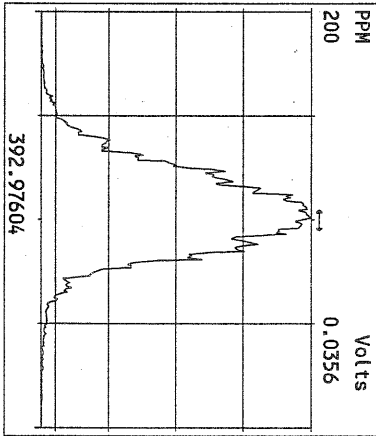
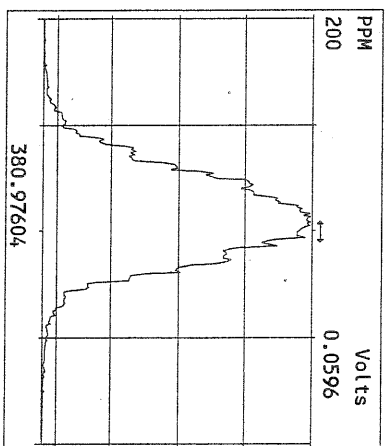
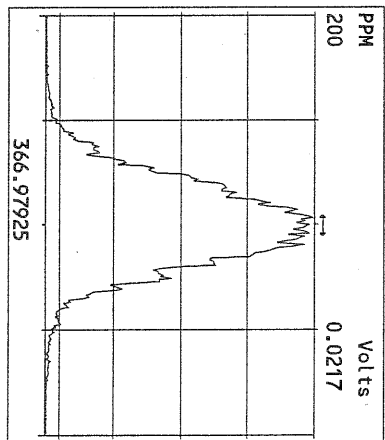
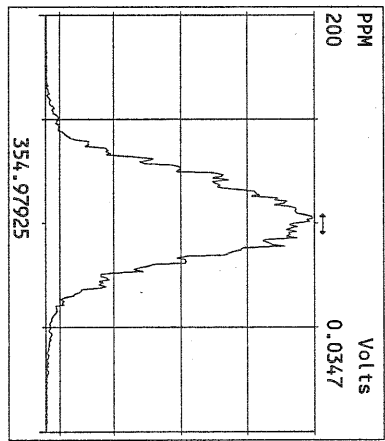
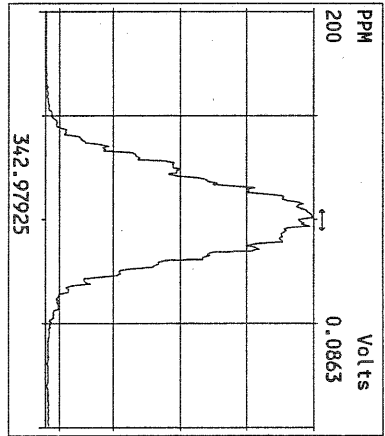
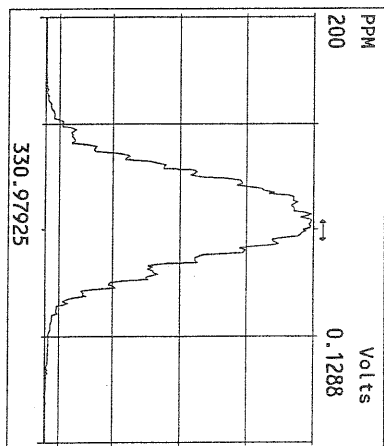
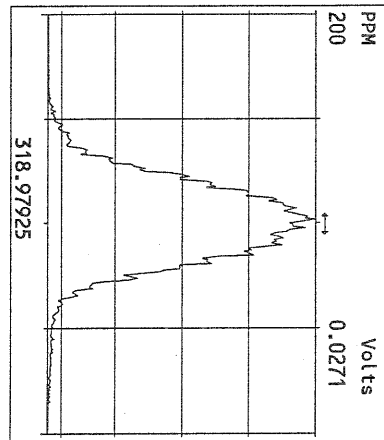
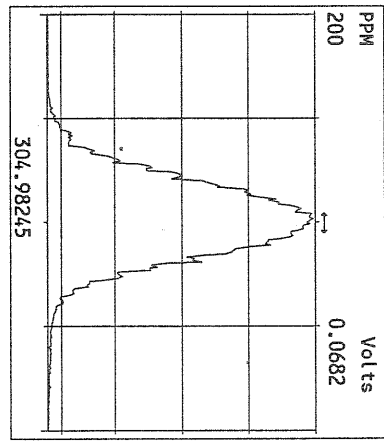
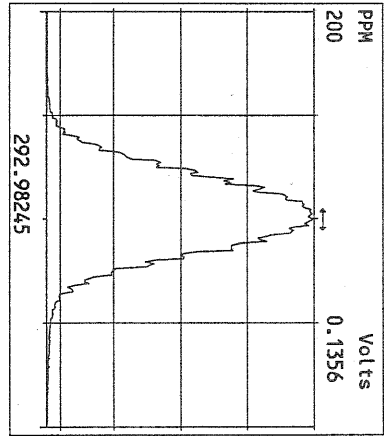


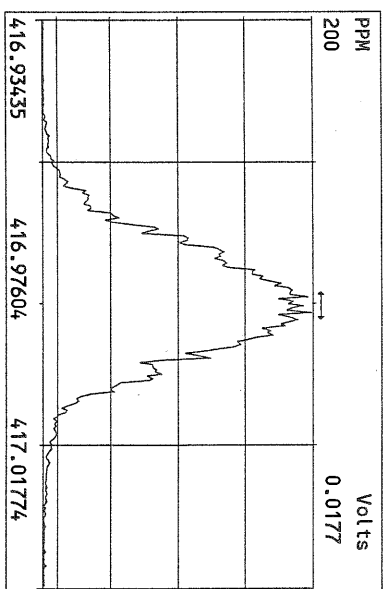
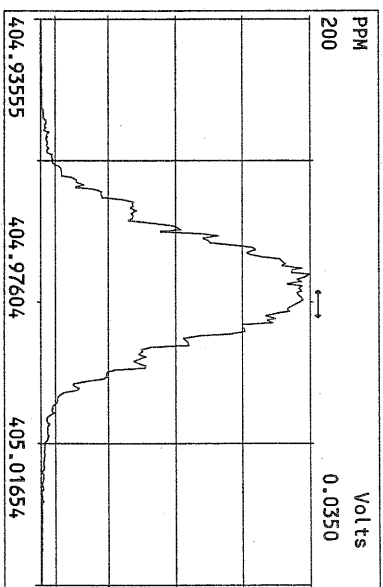
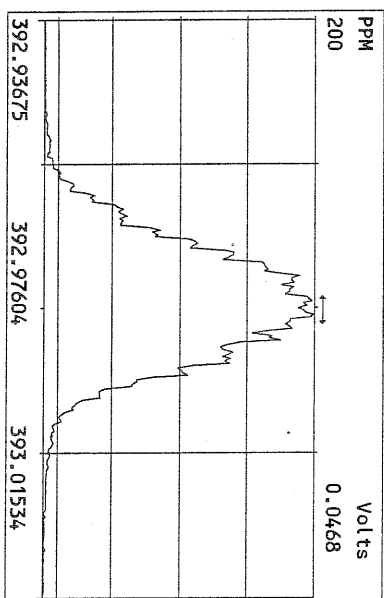
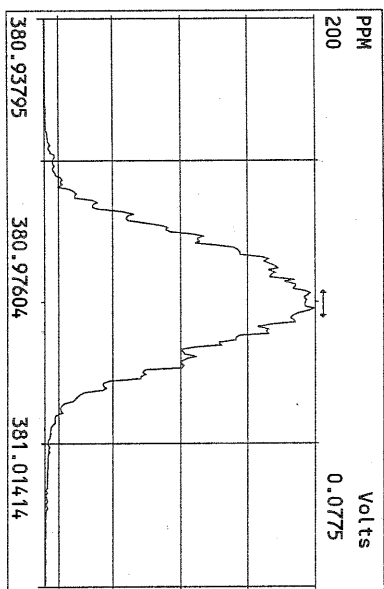
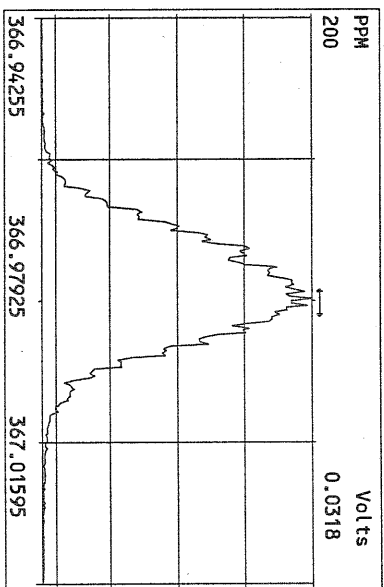
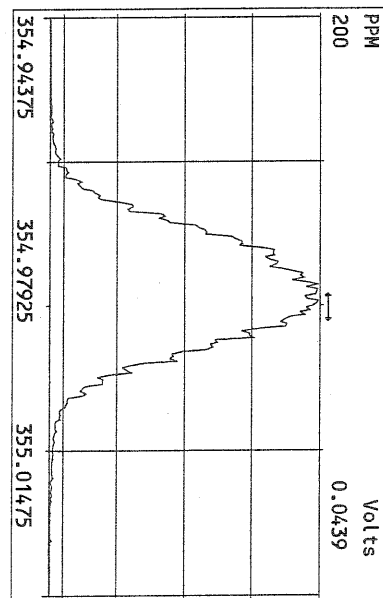
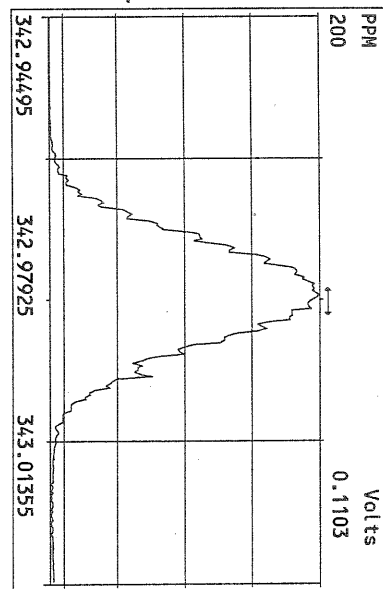
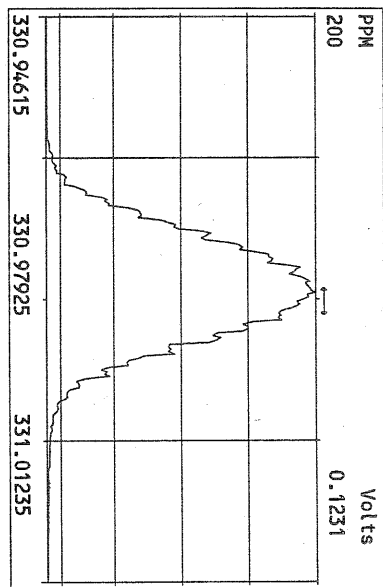
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455.7801 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory

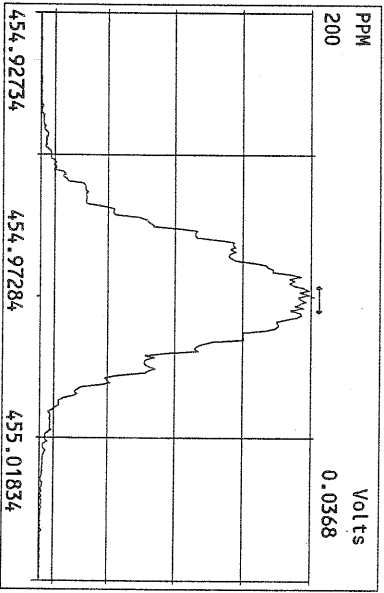
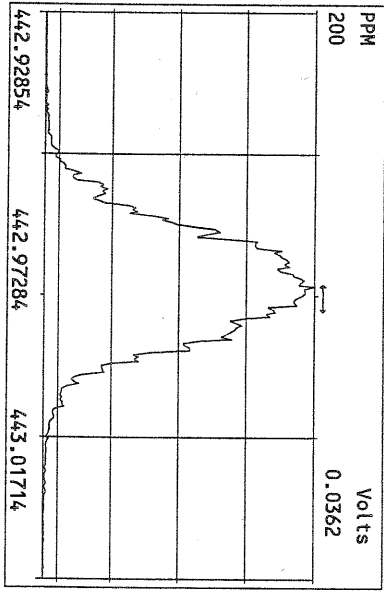
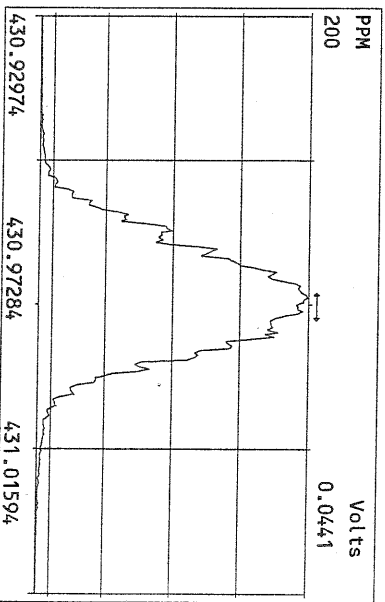
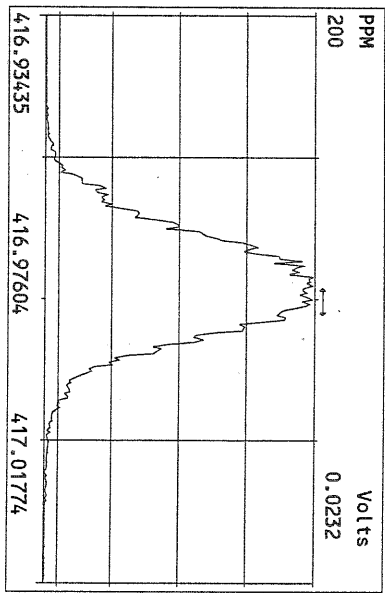
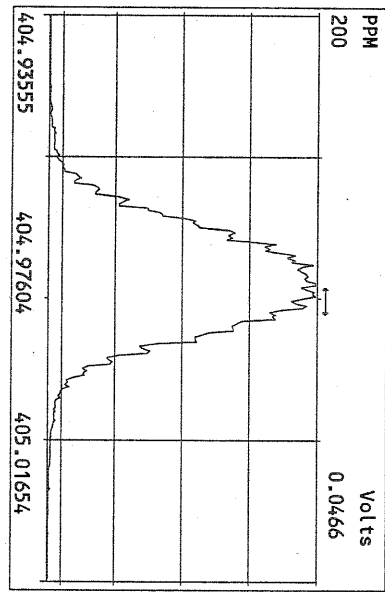
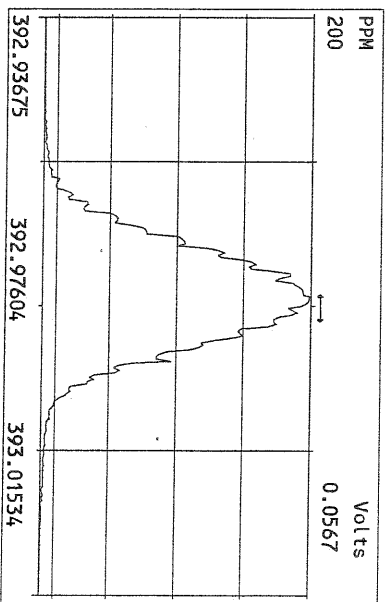
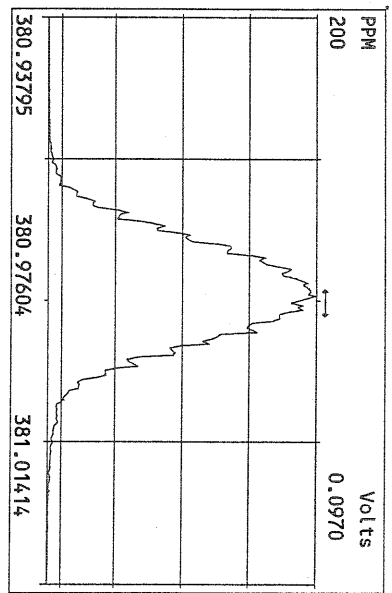
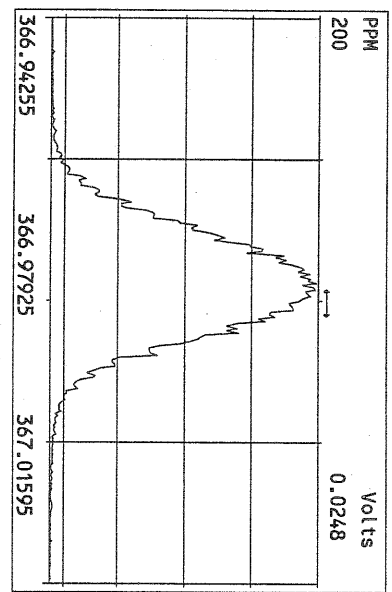


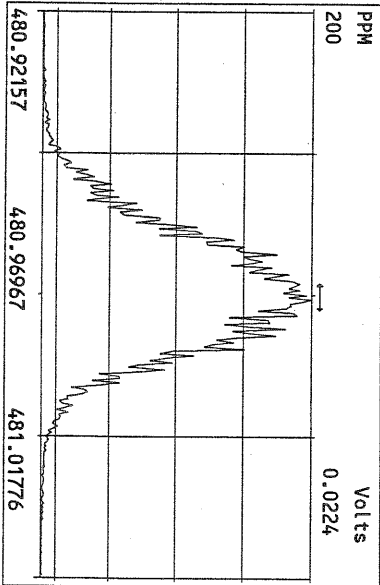
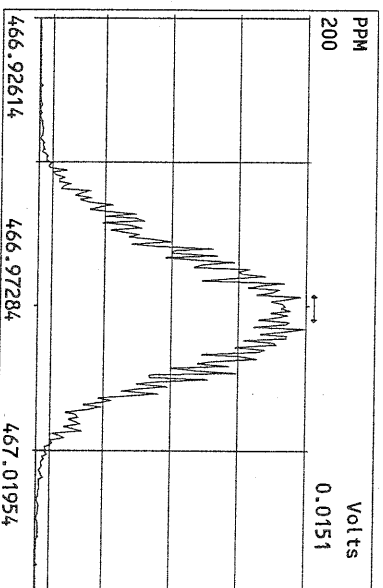
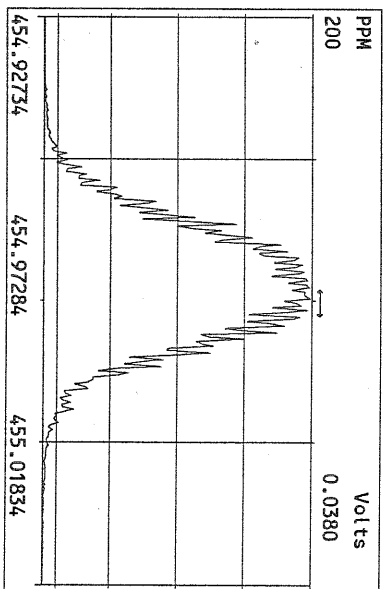
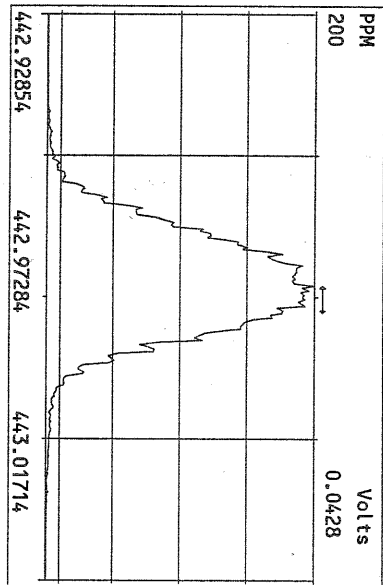
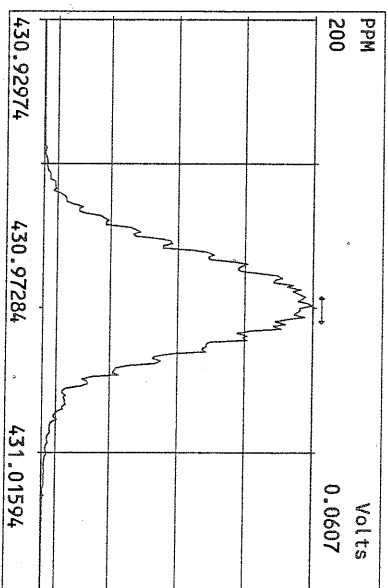
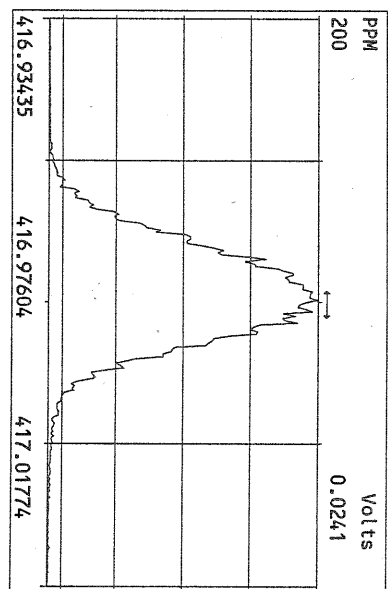
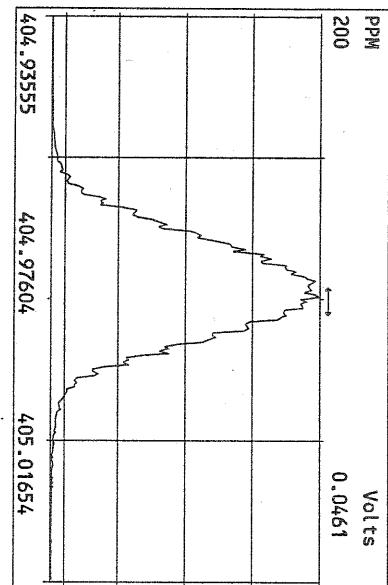
File:15AUG10M #1-347 Acq:15-AUG-2010 21:20:05 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081510M2 File Text:Frontier Analytical Laboratory

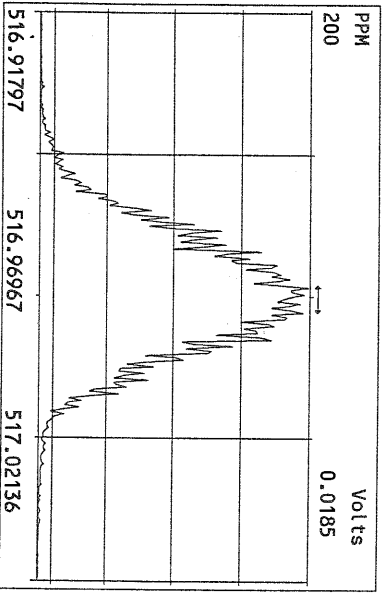
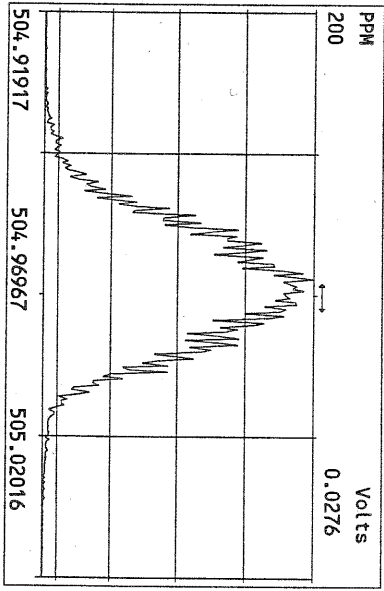
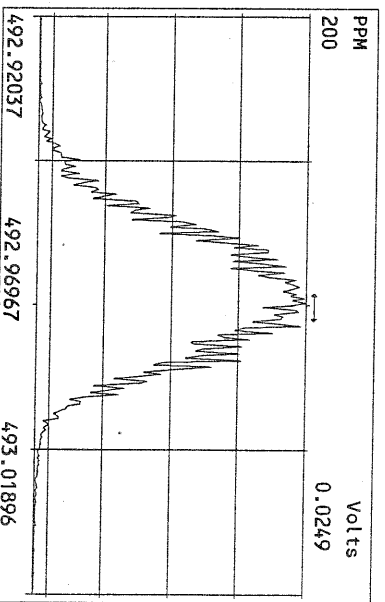
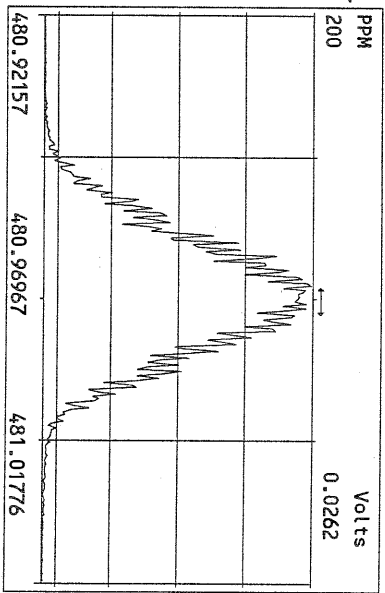
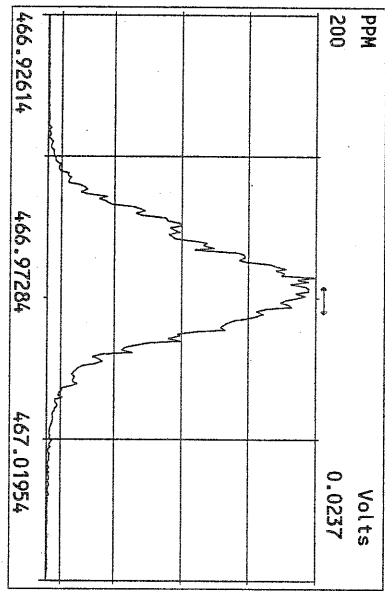
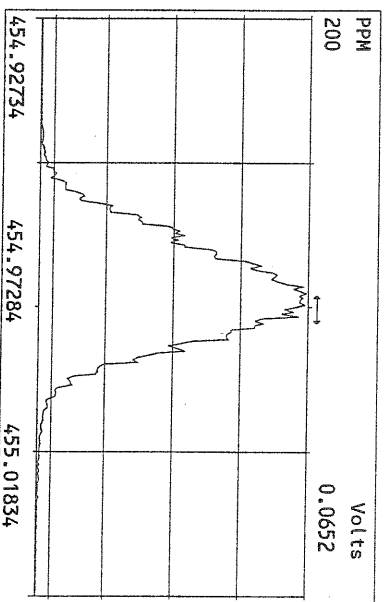
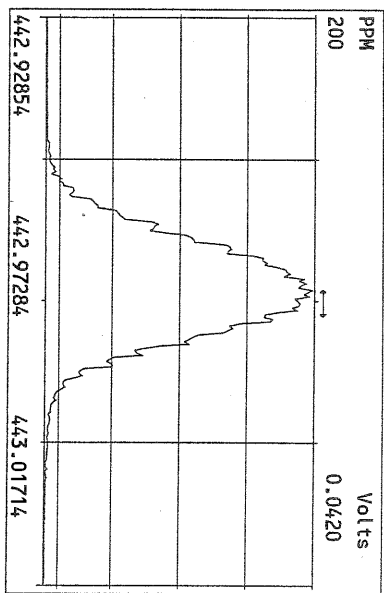
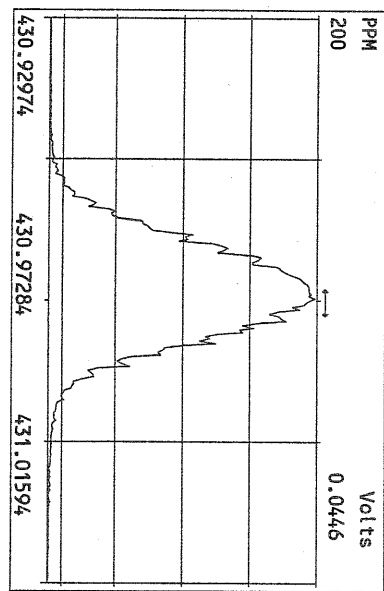












USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 15AUG10M Sam:22

Analysis Date: 16-AUG-10 07:28:46

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.74	0.65-0.89	y	9.56	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.63	1.32-1.78	y	47.9	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.42	1.05-1.43	y	49.7	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.35	1.05-1.43	y	48.6	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.42	1.05-1.43	y	51.9	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88-1.20	y	48.5	43.0 - 58.0 ✓
OCDD	M+2/M+4	0.96	0.76-1.02	y	111	79.0 - 126 ✓
2,3,7,8-TCDF	M/M+2	0.70	0.65-0.89	y	9.15	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.44	1.32-1.78	y	50.1	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.42	1.32-1.78	y	47.5	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	45.6	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	46.1	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	45.5	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.27	1.05-1.43	y	45.7	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	45.8	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	44.6	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.87	0.76-1.02	y	93.4	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: JDate: 8/16/10

USEPA - ITD

FORM 68
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 16-AUG-10 07:28:46

CS3 or VER Data Filename: 15AUG10M

Sam:22

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.001	0.999-1.001 ✓
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004 ✓
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019 ✓
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.001	0.999-1.001 ✓
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005 ✓
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	0.999-1.001 ✓
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.001	0.999-1.001 ✓
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001 ✓
OCDD	13C-OCDD	1.001	0.999-1.001 ✓
OCDF	13C-OCDF	1.001	0.999-1.001 ✓
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.984	0.977-1.000 ✓
13C-1,2,3,6,7,8-HxCDD		0.989	0.981-1.003 ✓
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970 ✓
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975 ✓
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021 ✓
13C-1,2,3,7,8,9-HxCDF		1.015	0.977-1.047 ✓
13C-1,2,3,4,6,7,8-HpCDD		1.128	1.086-1.130 ✓
13C-1,2,3,4,6,7,8-HpCDF		1.079	1.043-1.085 ✓
13C-1,2,3,4,7,8,9-HpCDF		1.151	1.057-1.154 ✓
13C-OCDD		1.269	1.032-1.311 ✓
13C-OCDF		1.279	1.000-1.311 ✓

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

Analyst: JDate: 8/10/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:15AUG10M

Instrument: FAL3

GC: DB5

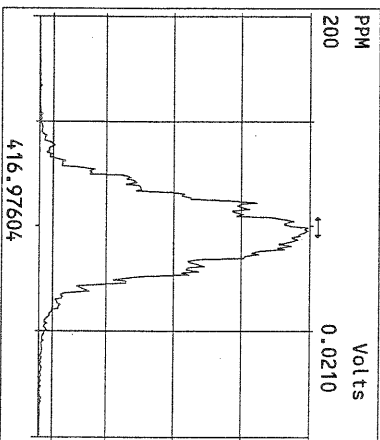
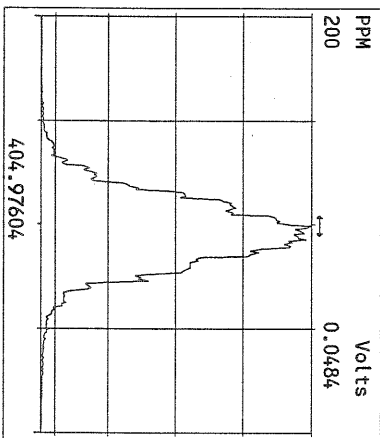
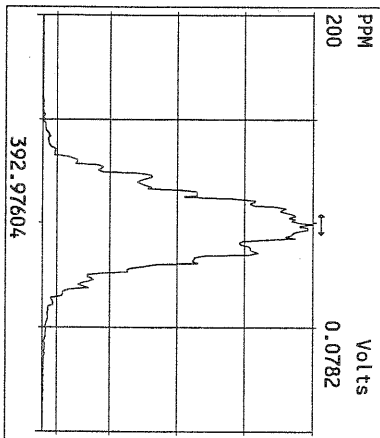
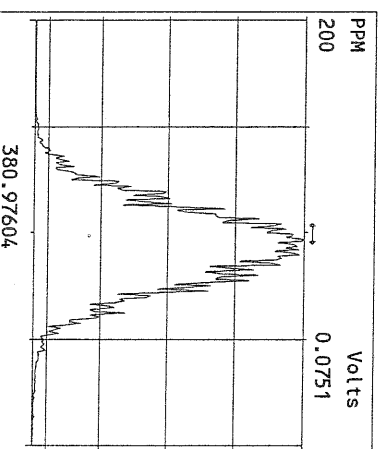
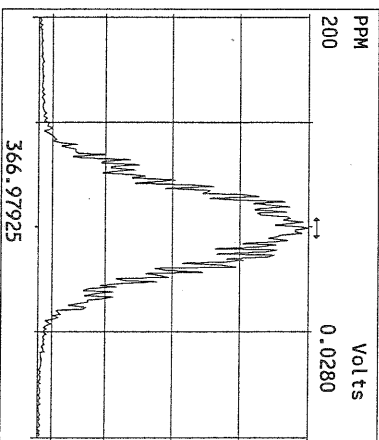
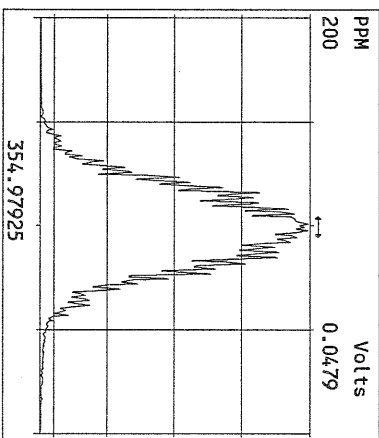
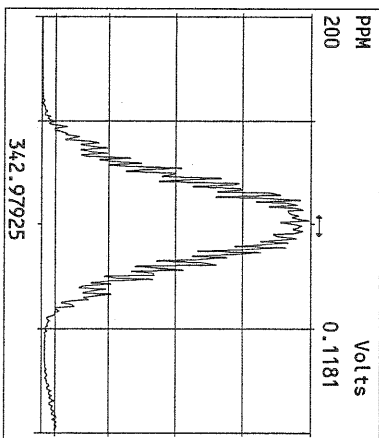
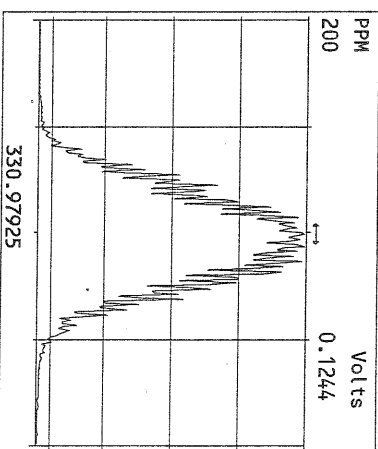
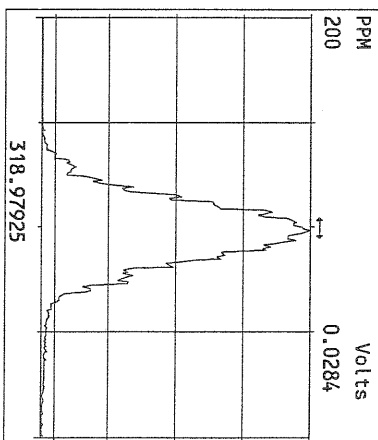
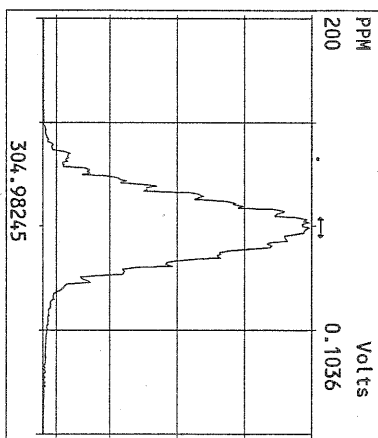
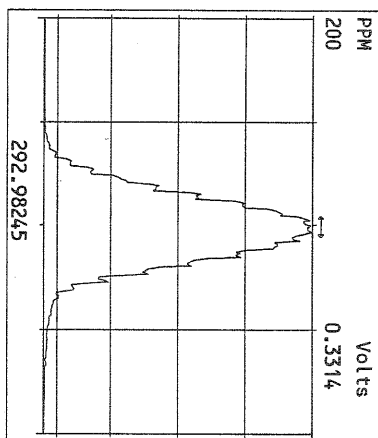
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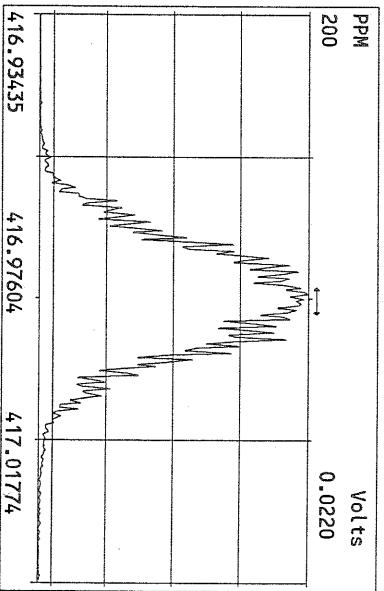
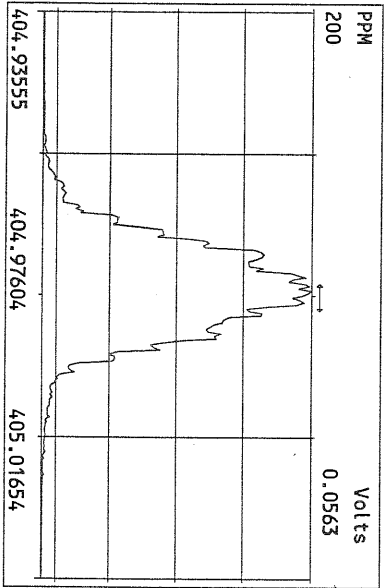
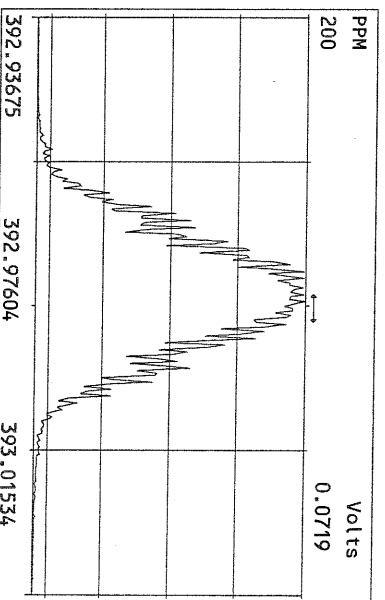
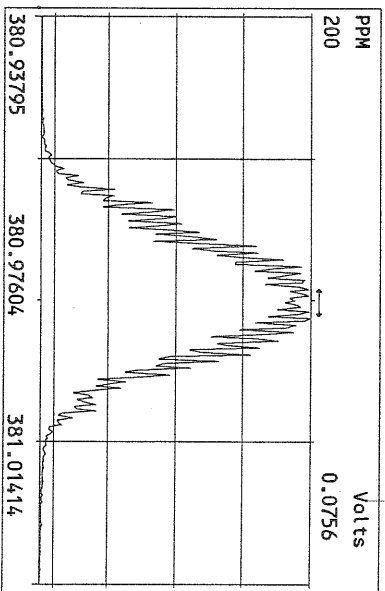
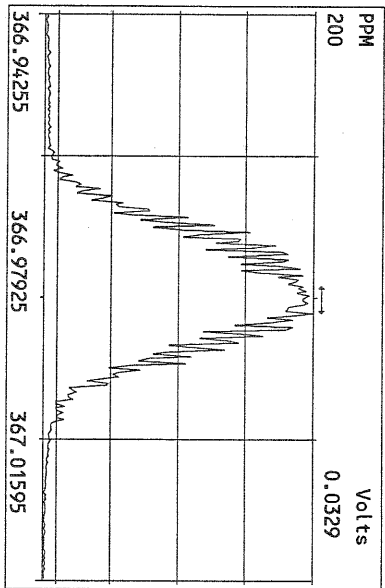
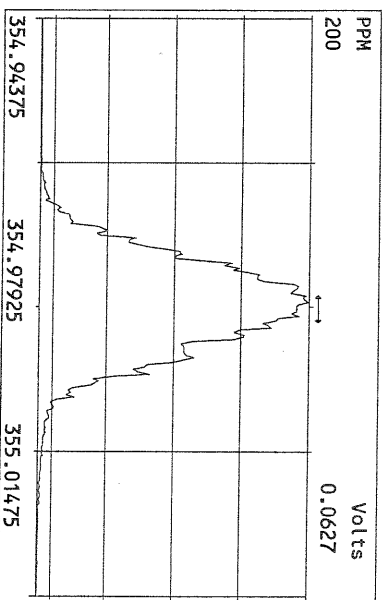
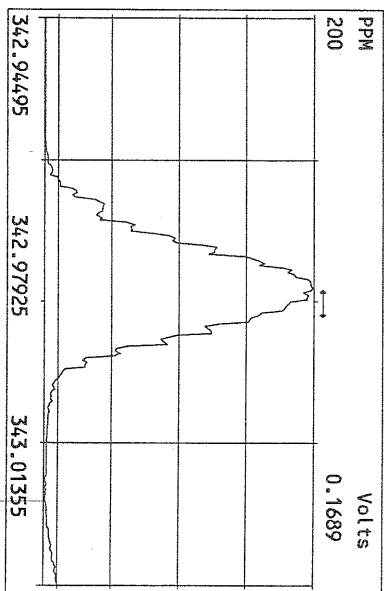
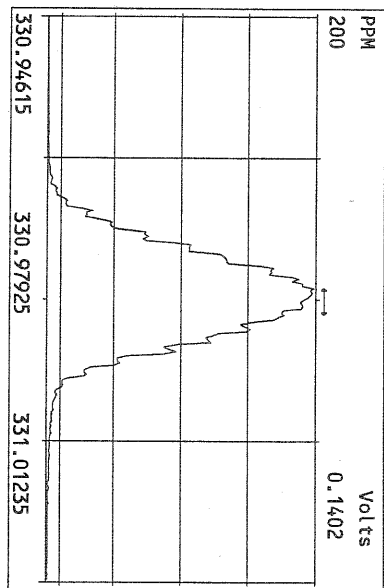
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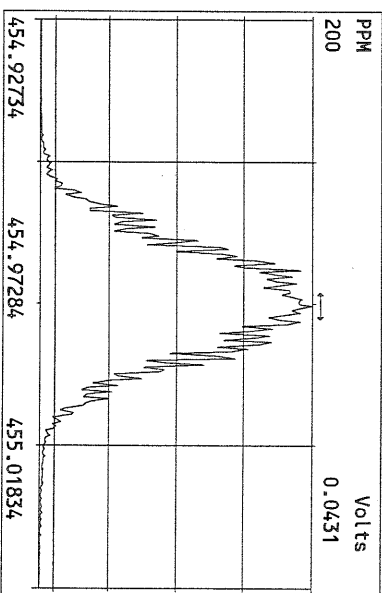
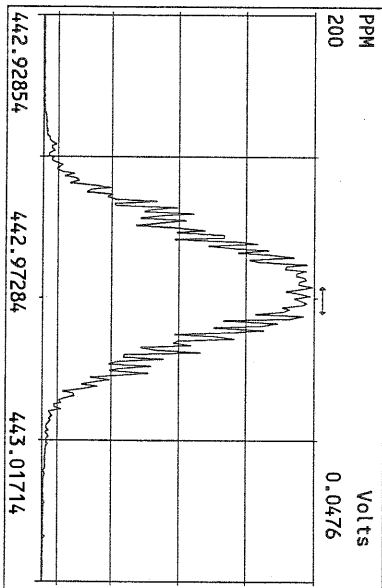
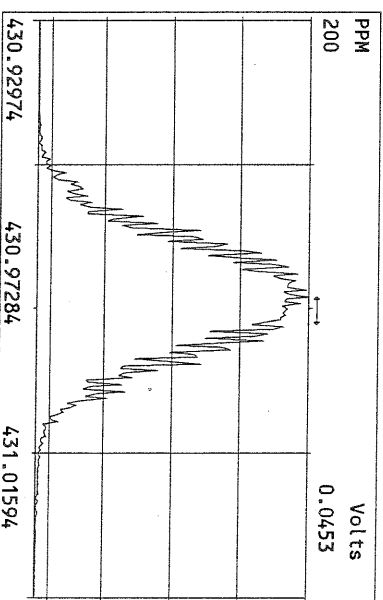
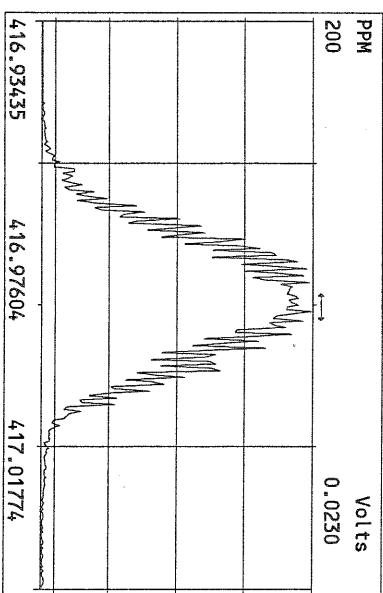
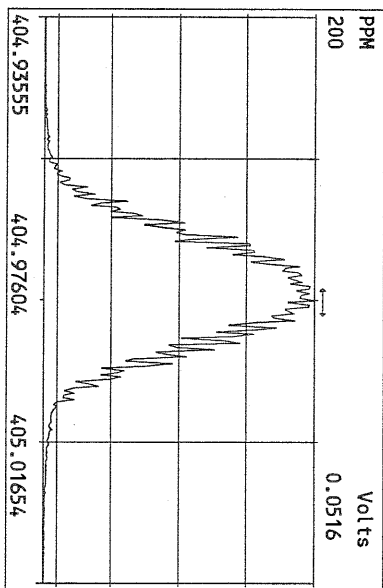
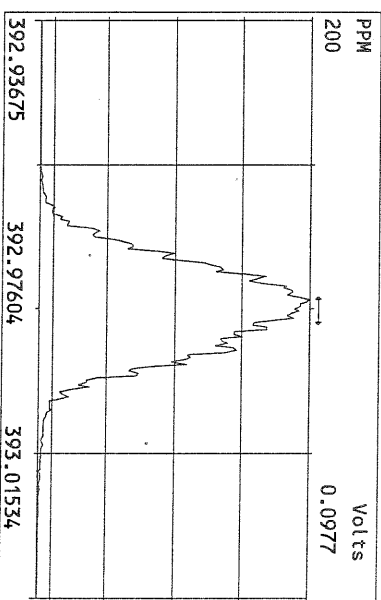
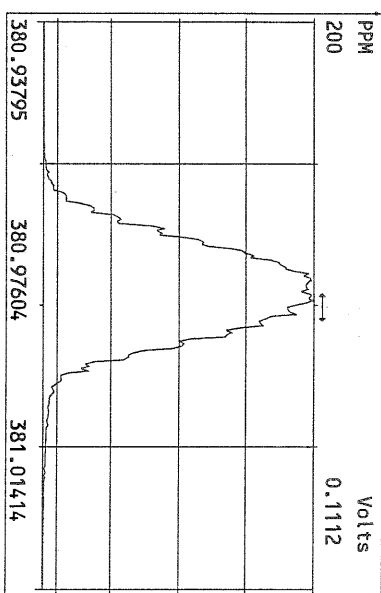
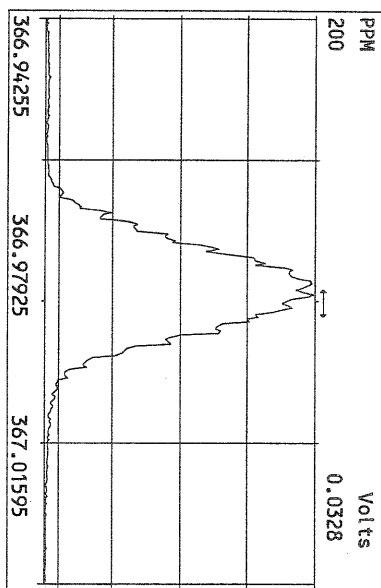
8/16/10

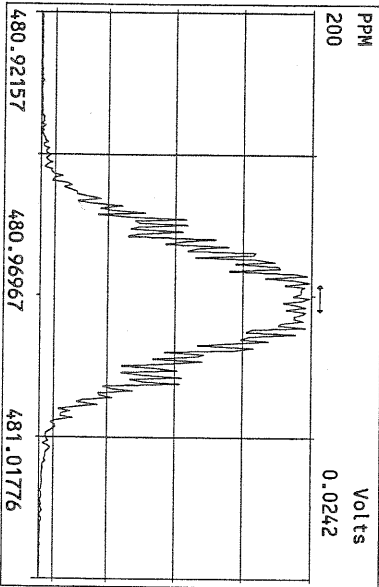
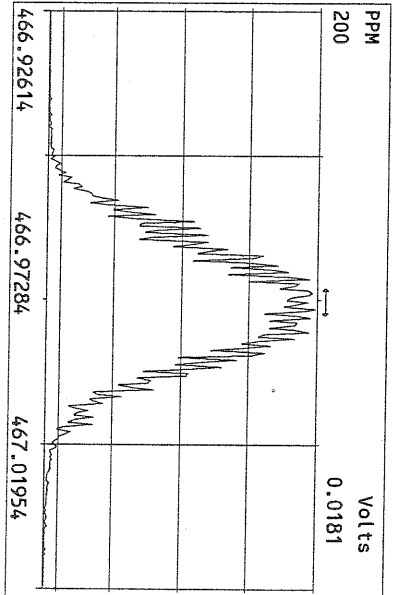
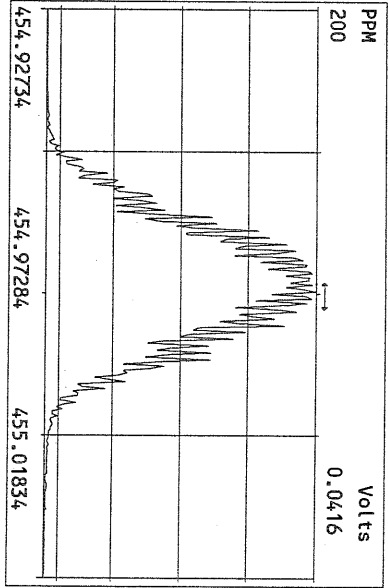
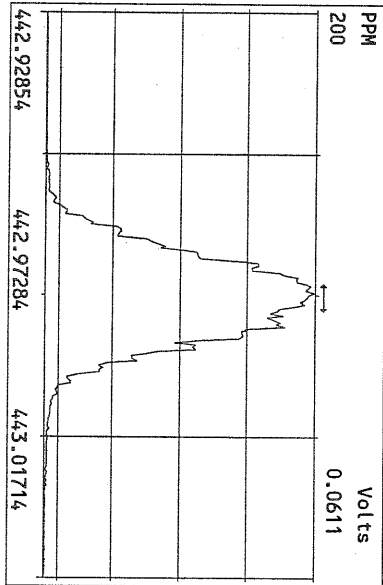
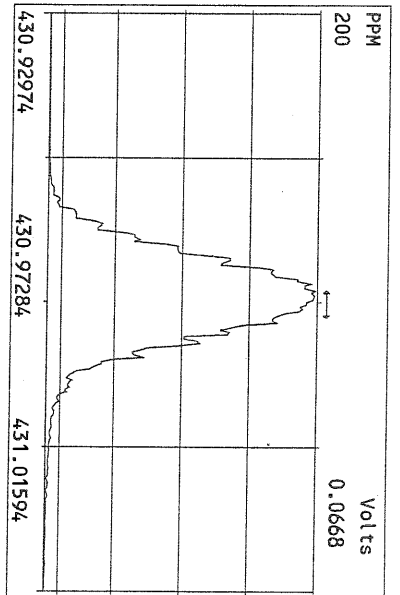
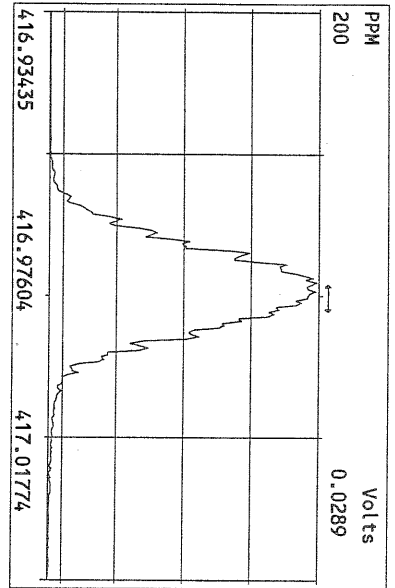
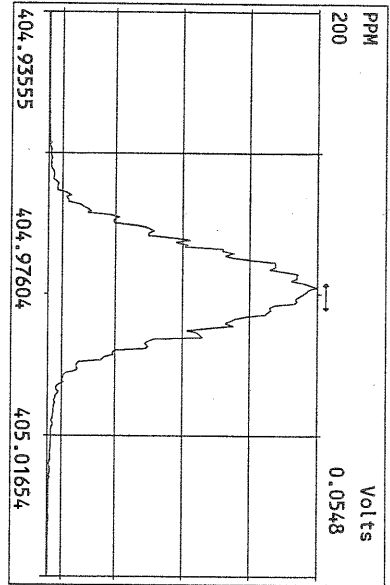
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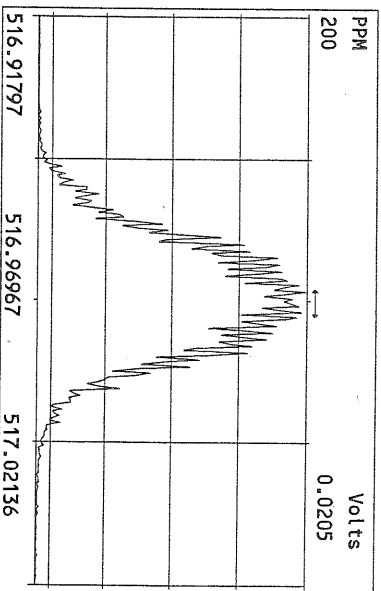
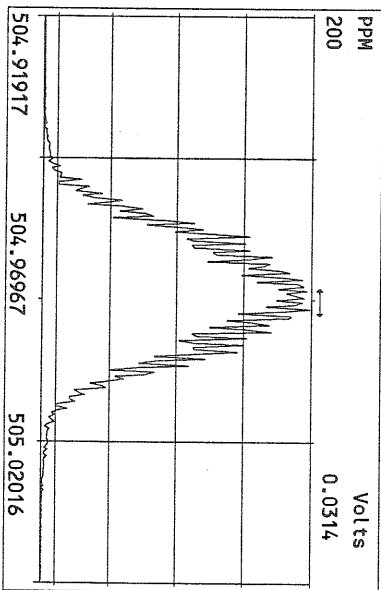
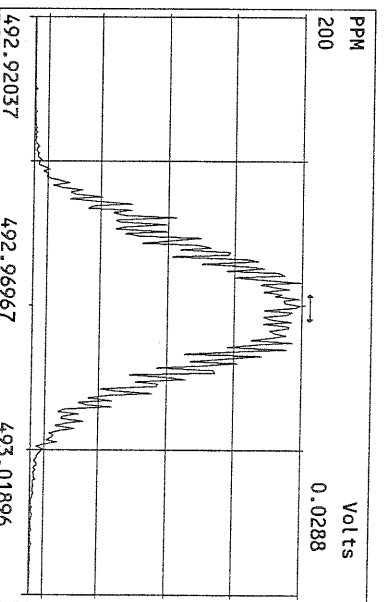
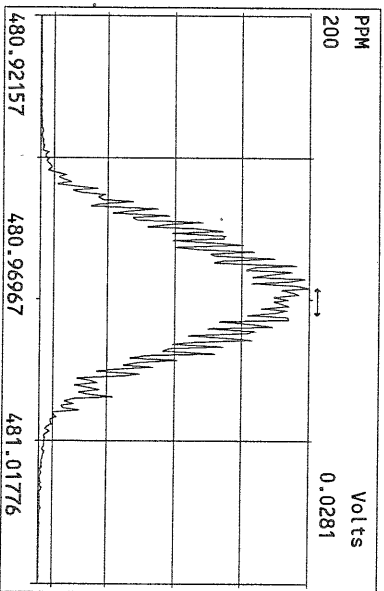
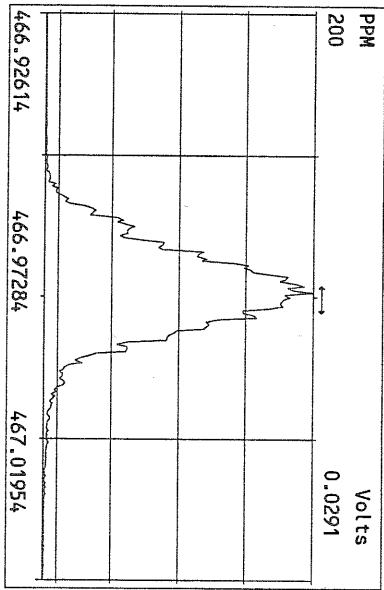
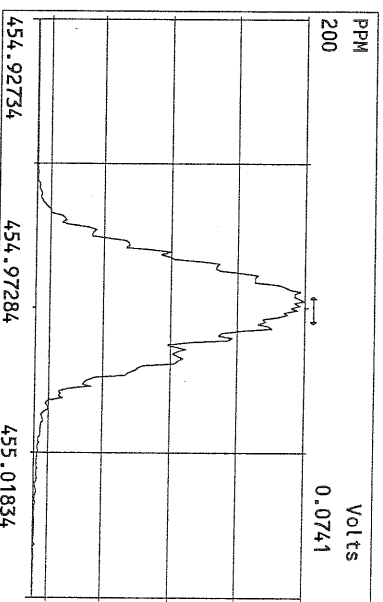
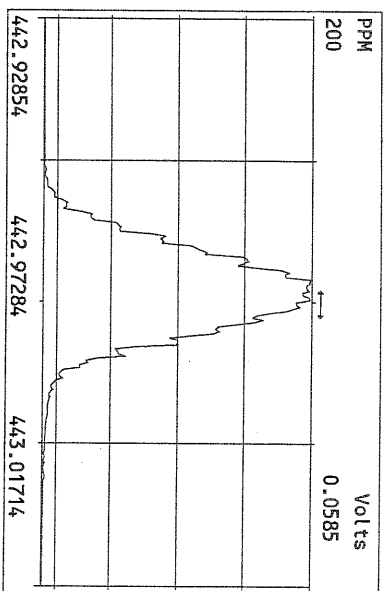
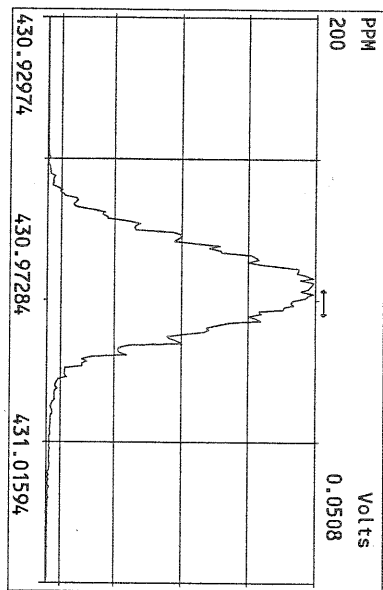
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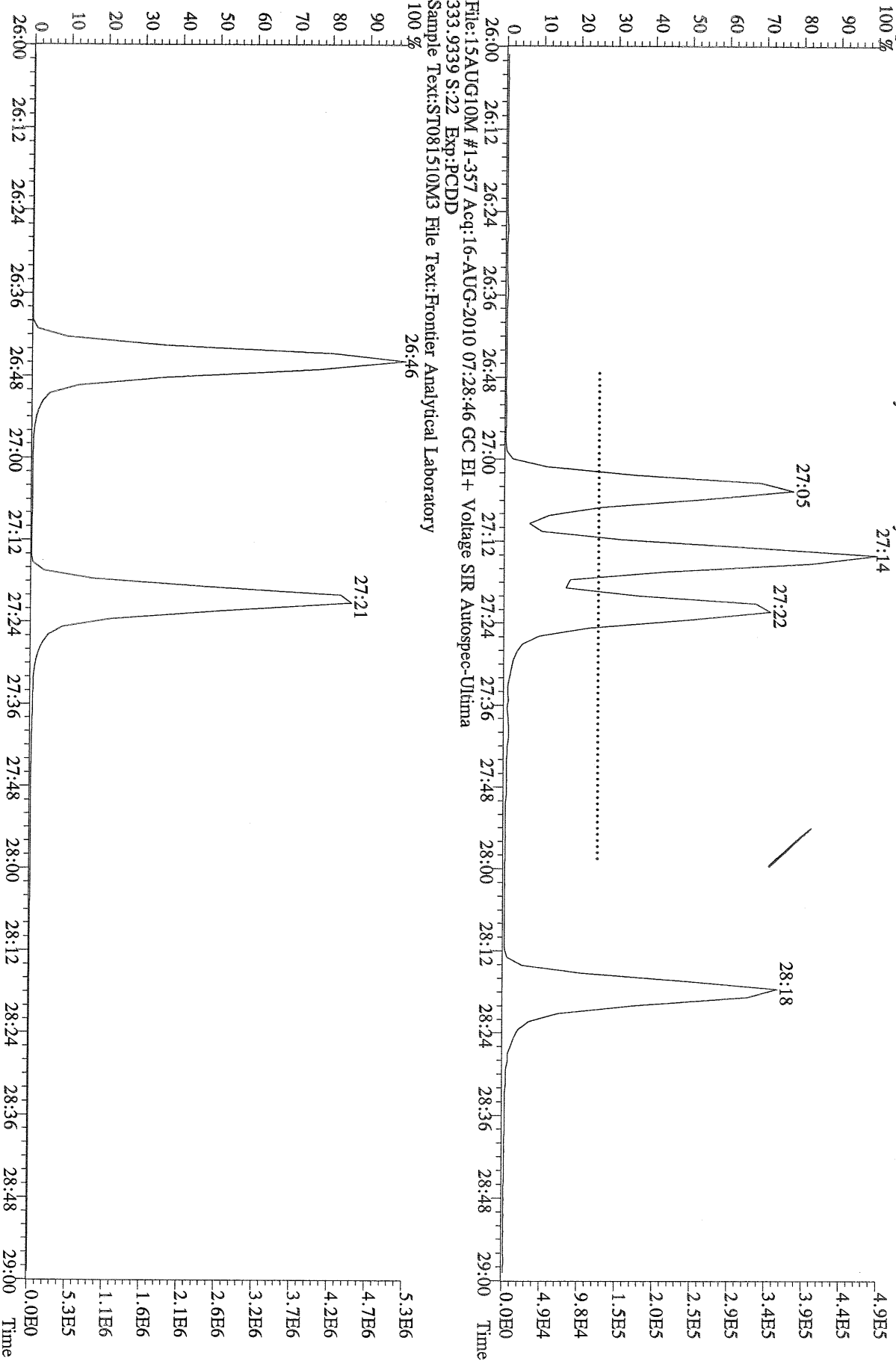




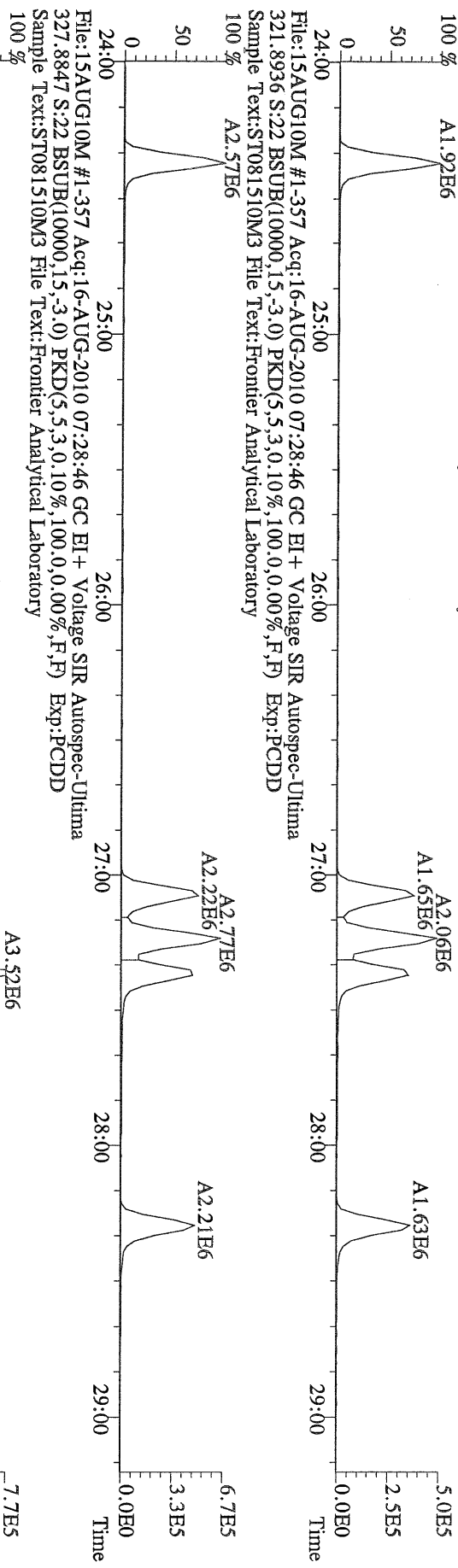




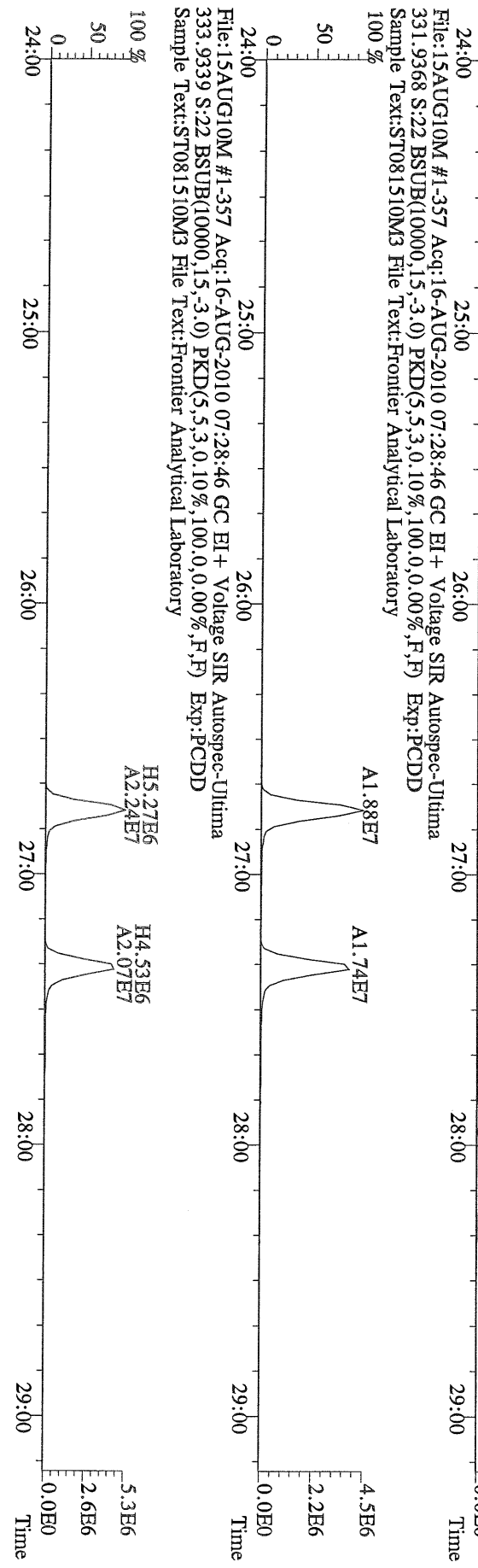
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100 %



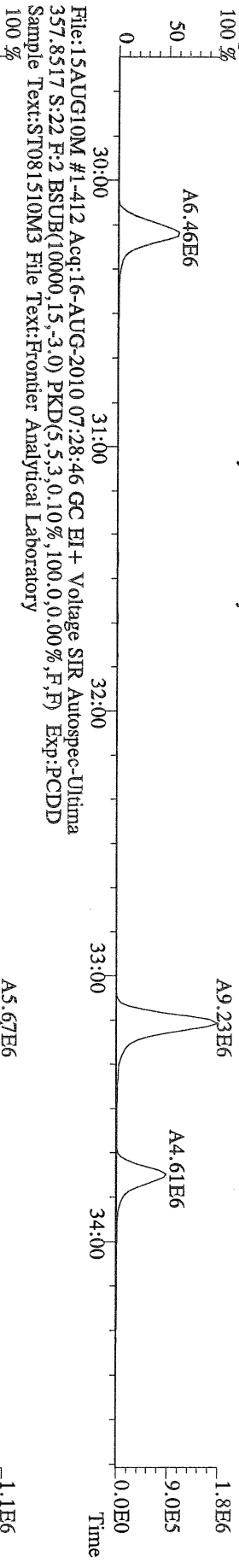
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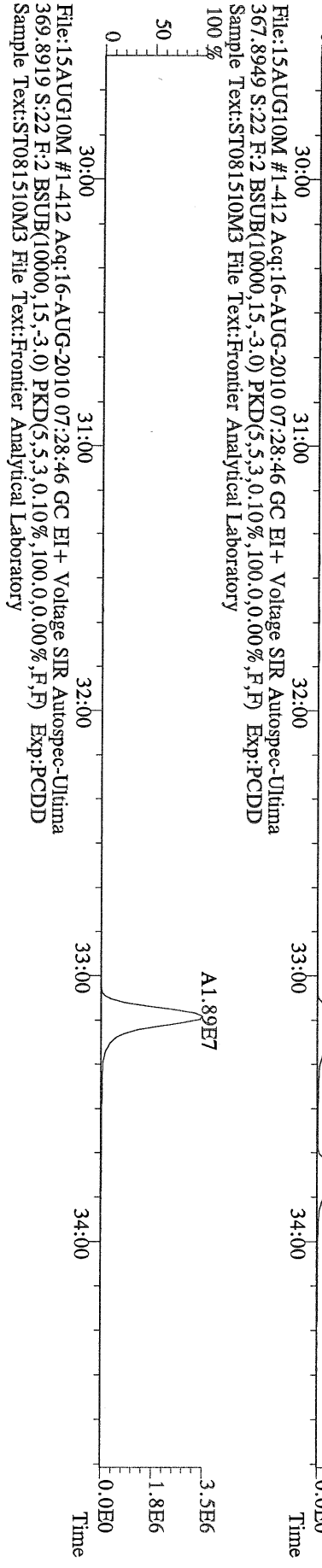
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100 % A2.57E6



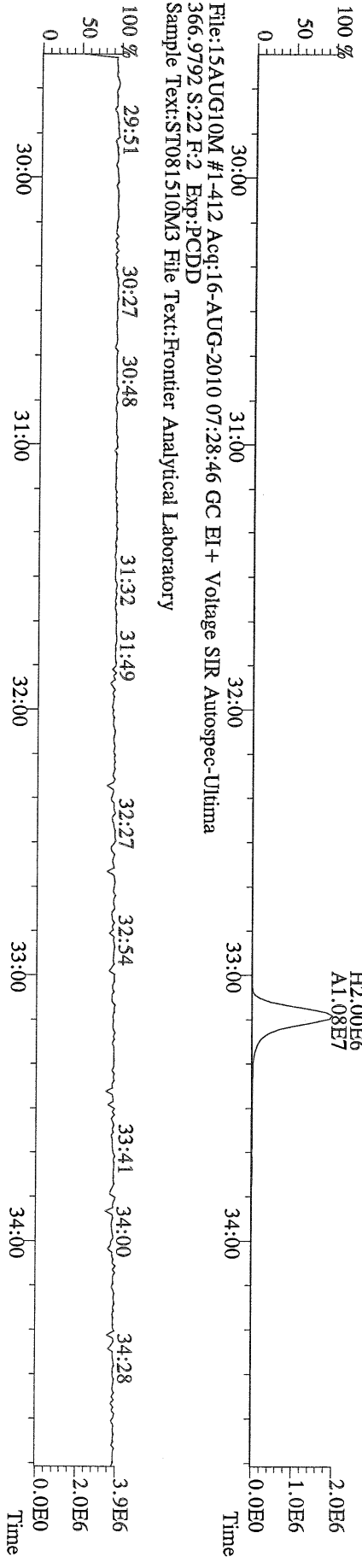
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Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory



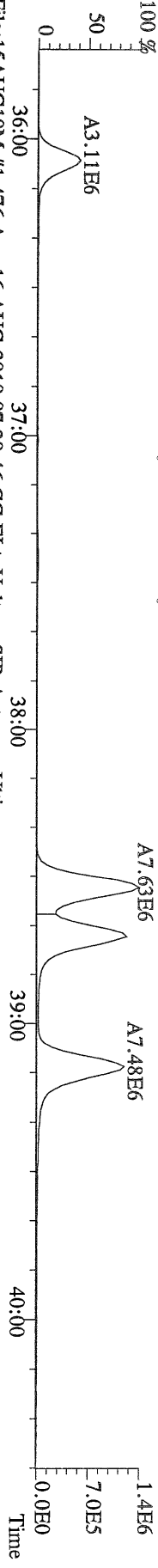
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Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory



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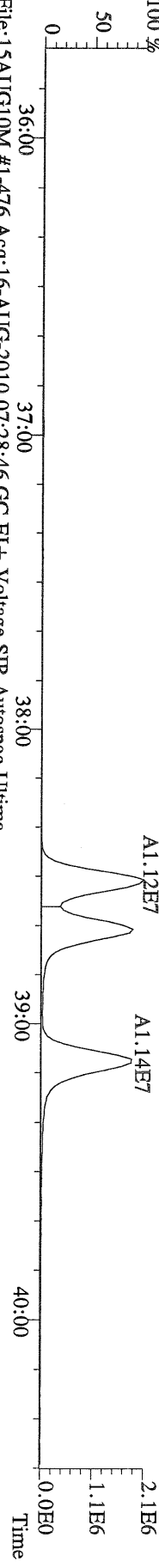
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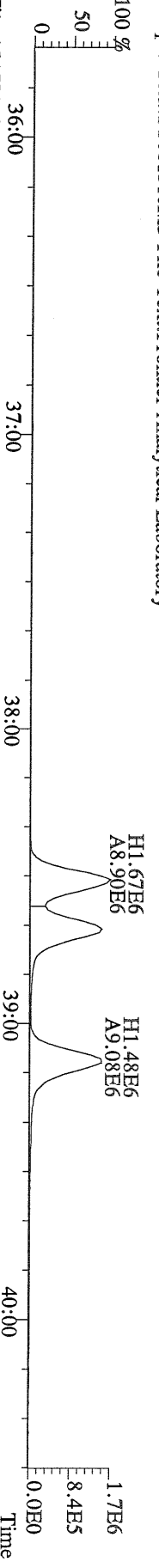
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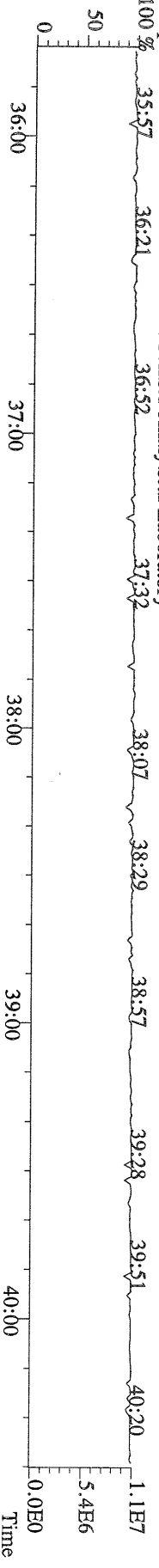
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Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory



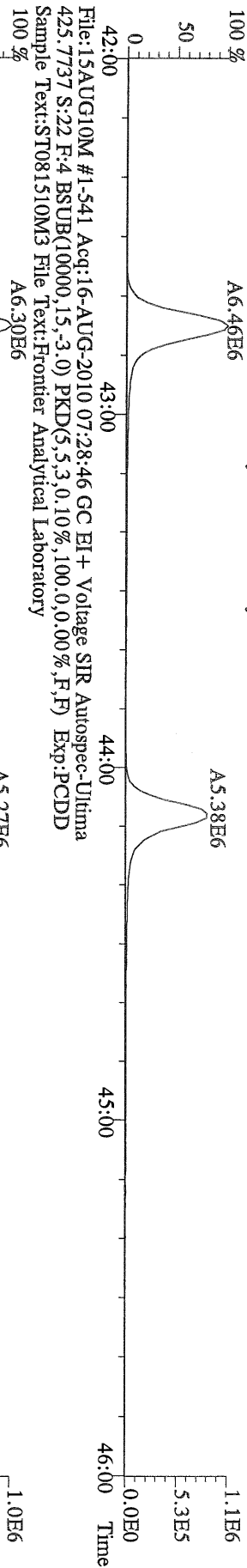
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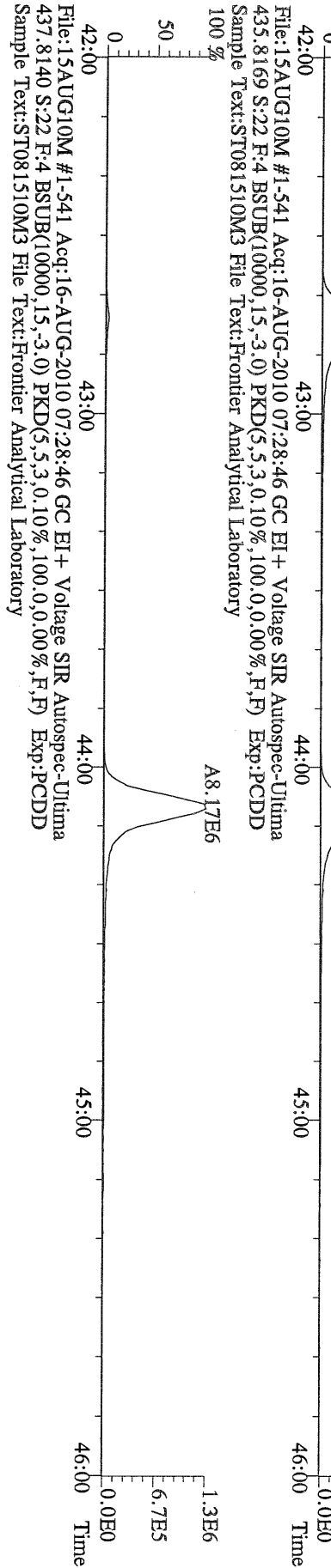
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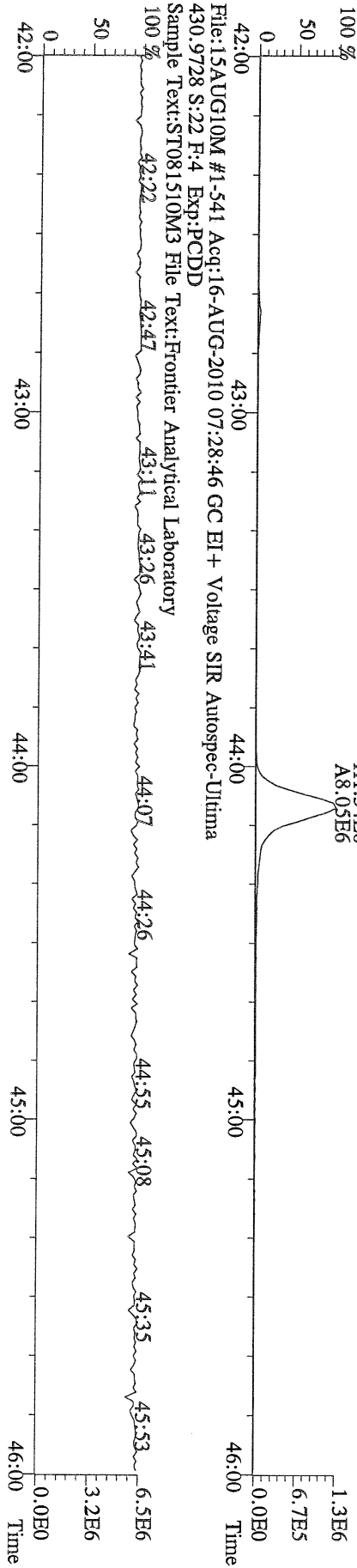
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Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory



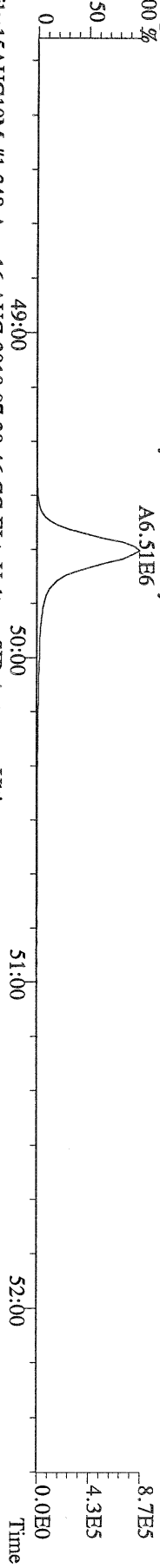
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Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory



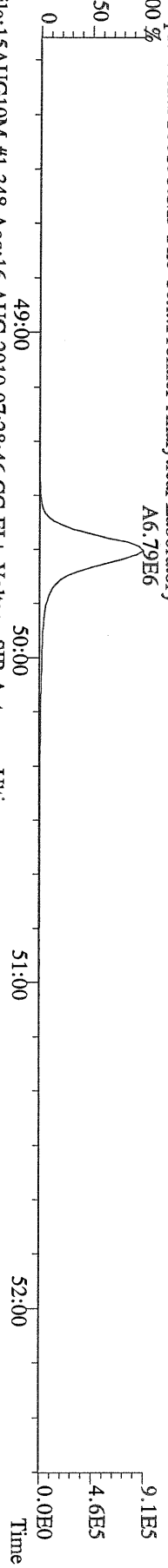
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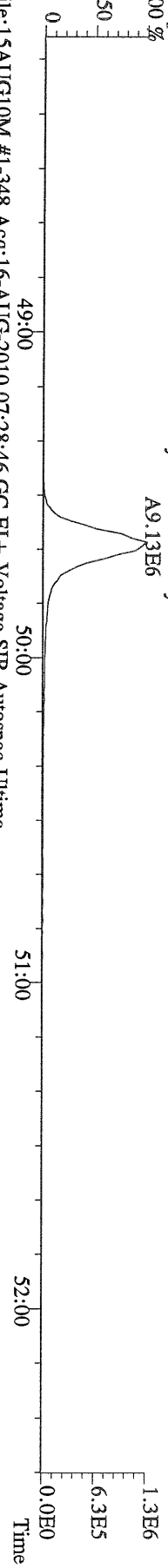
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457.7377 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.100,0.0,0.00%,F,F) Exp:PCDD
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100 %



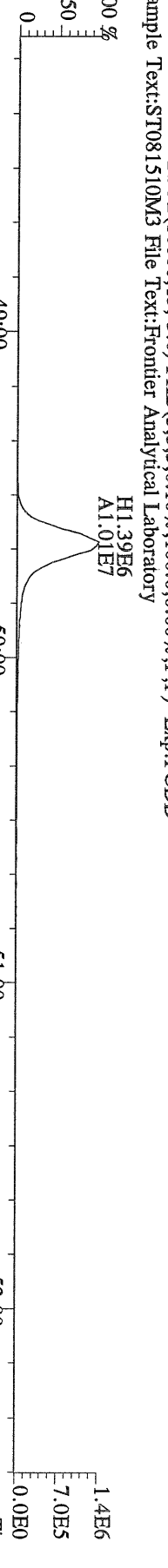
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Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory
100 %



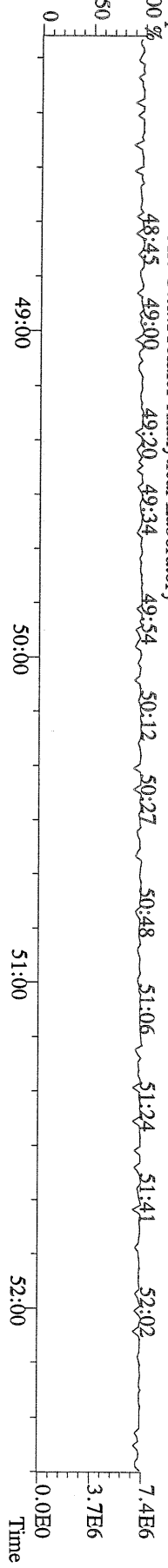
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469.7780 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory
100 %



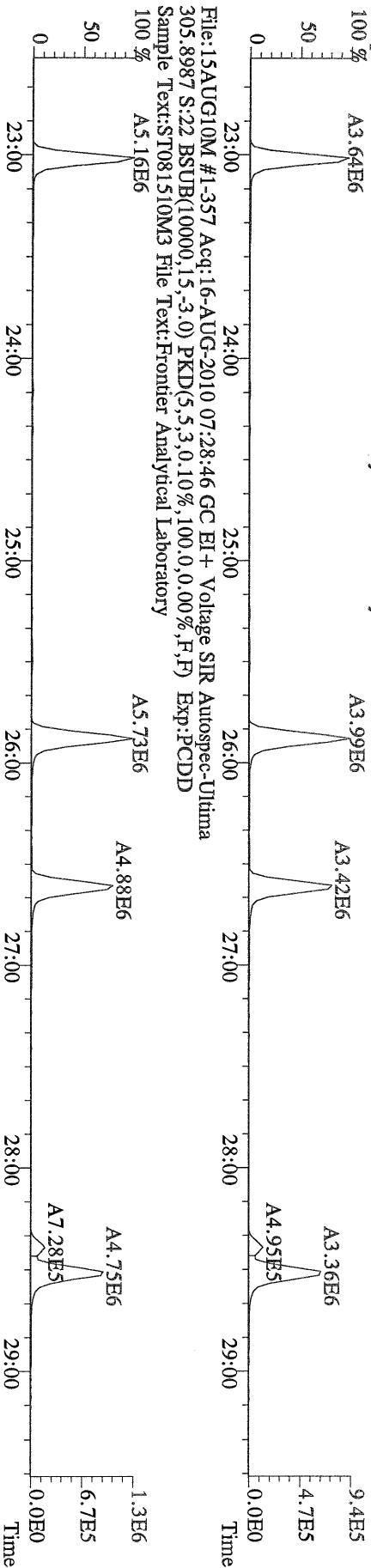
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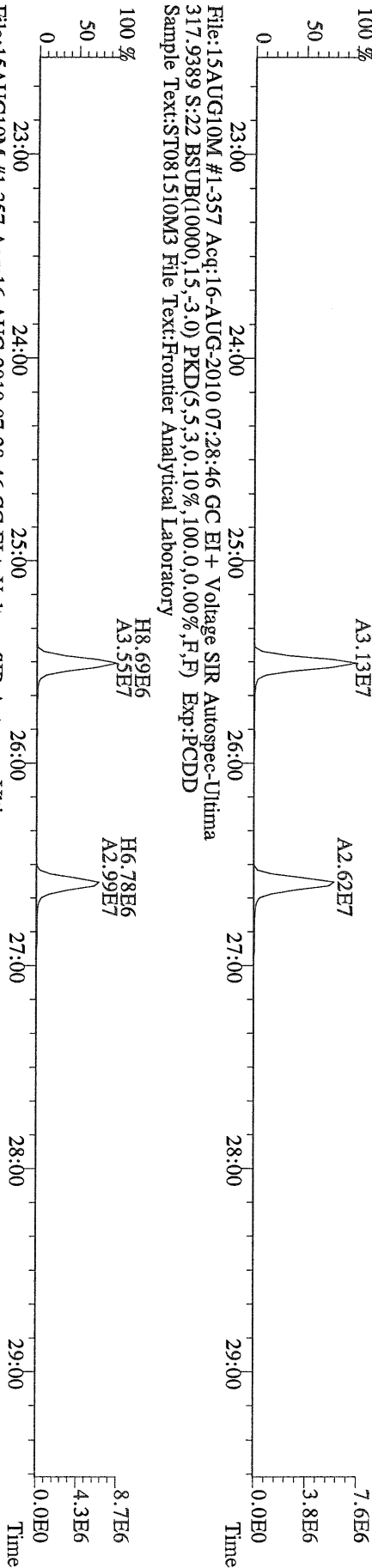
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454.9728 S:22 F:5 Exp:PCDD
Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory



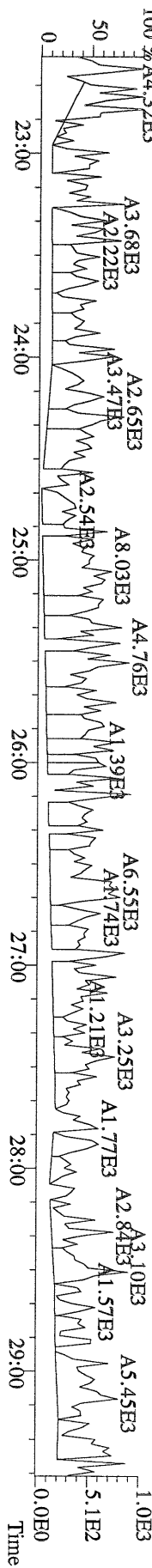
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 303.9016 S:22 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory



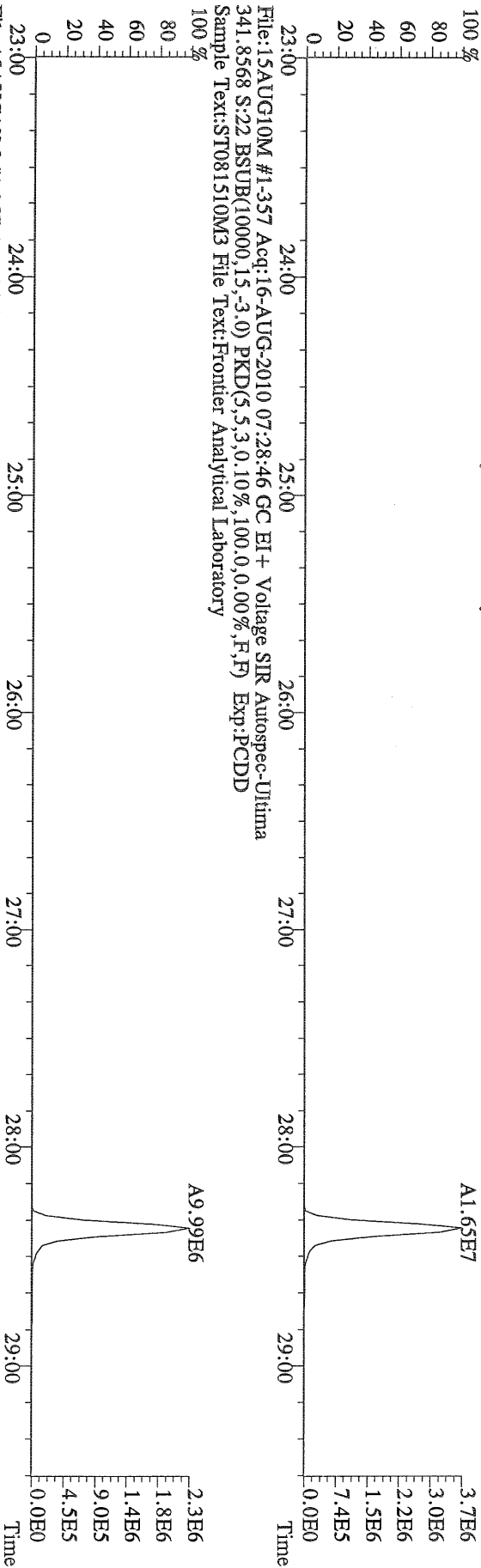
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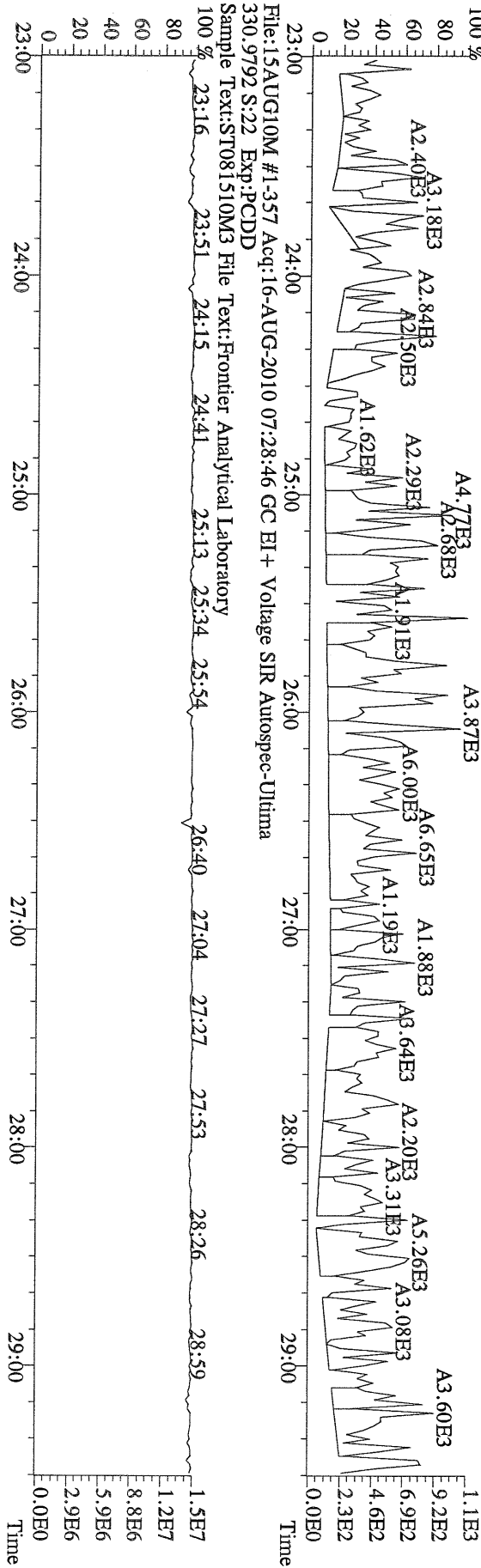
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 375.8364 S:22 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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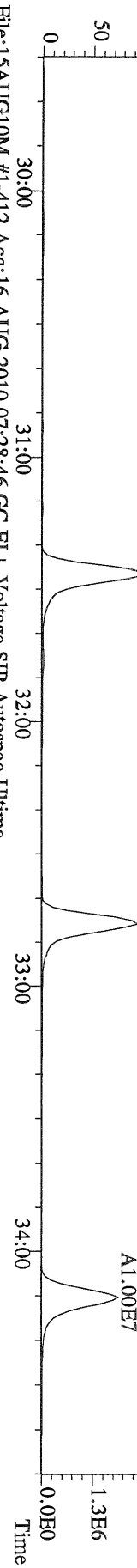
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 339.8597 S:22 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory



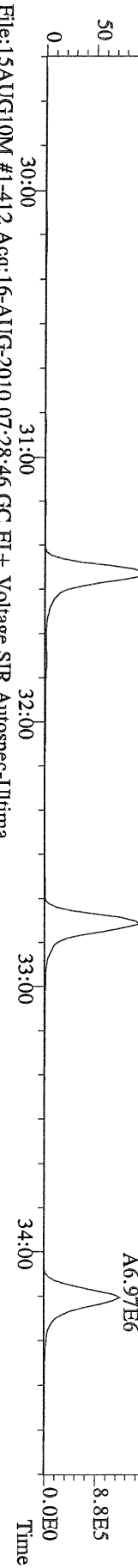
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 Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory



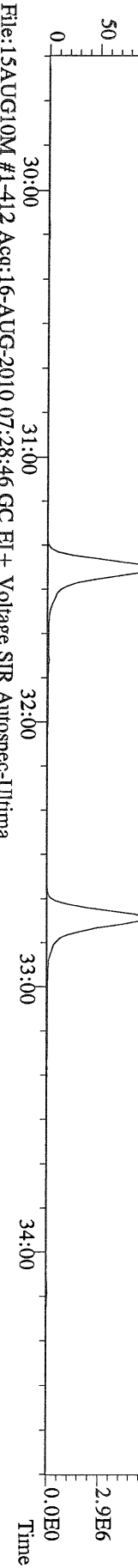
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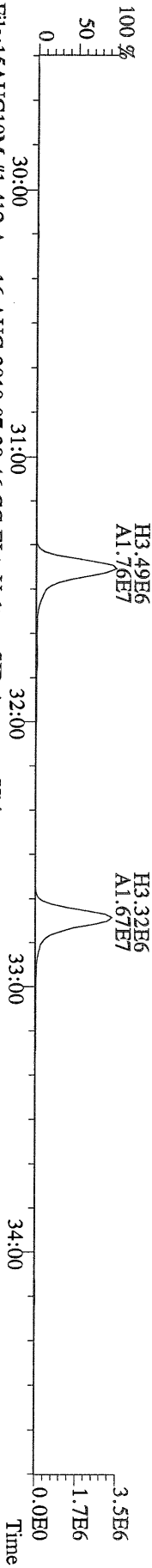
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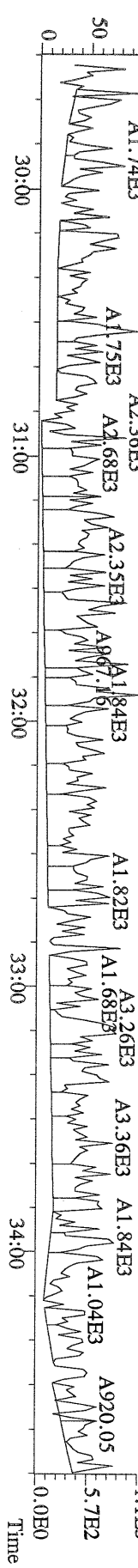
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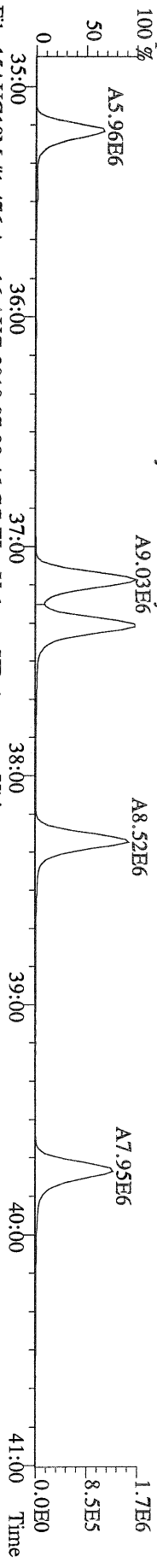
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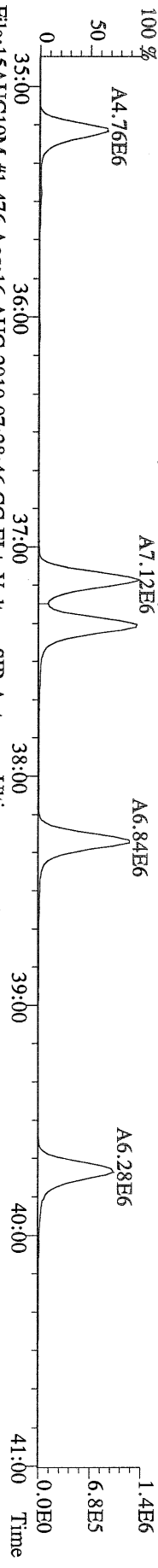
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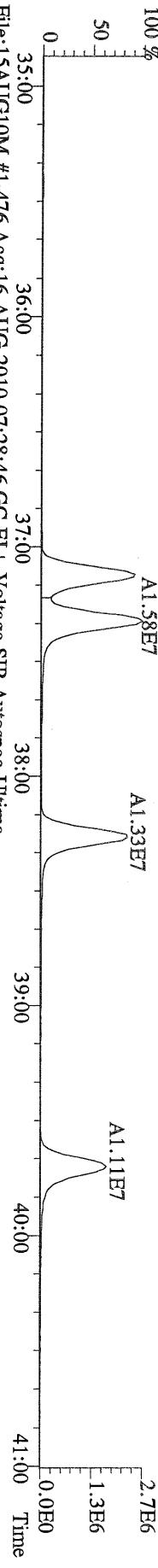
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373.8207 S:22 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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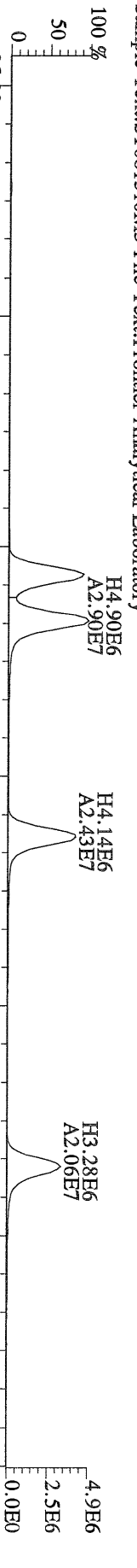
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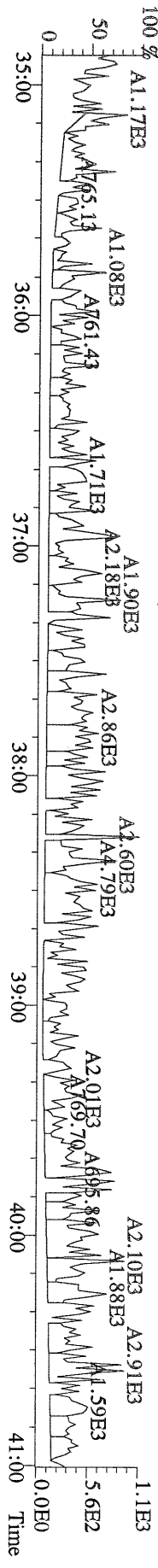
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383.8639 S:22 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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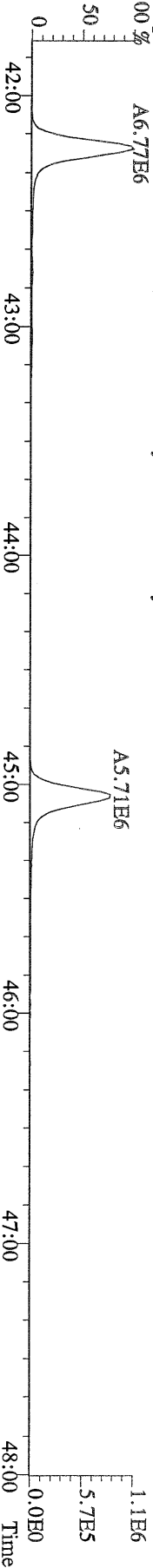
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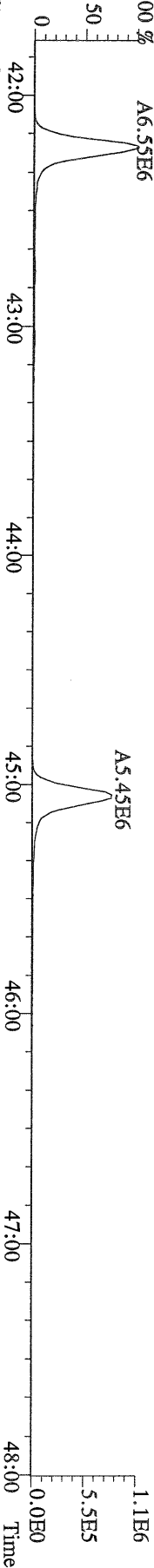
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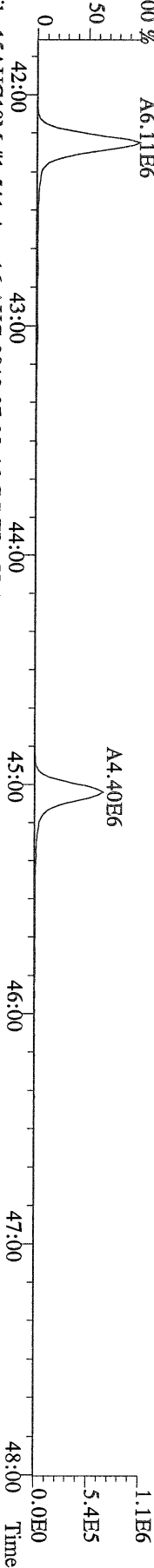
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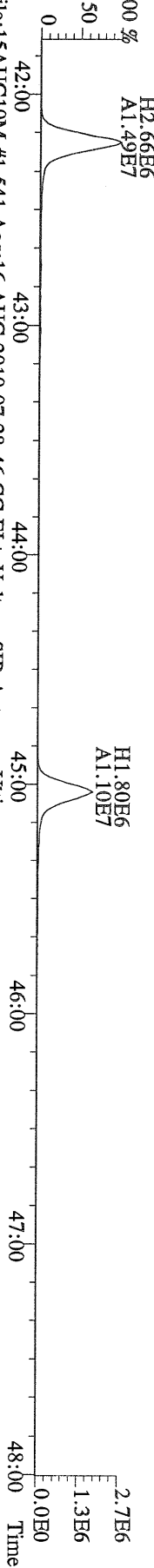
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409.7788 S:22 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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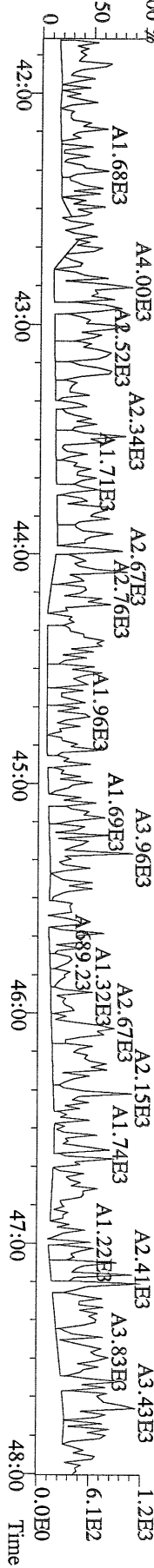
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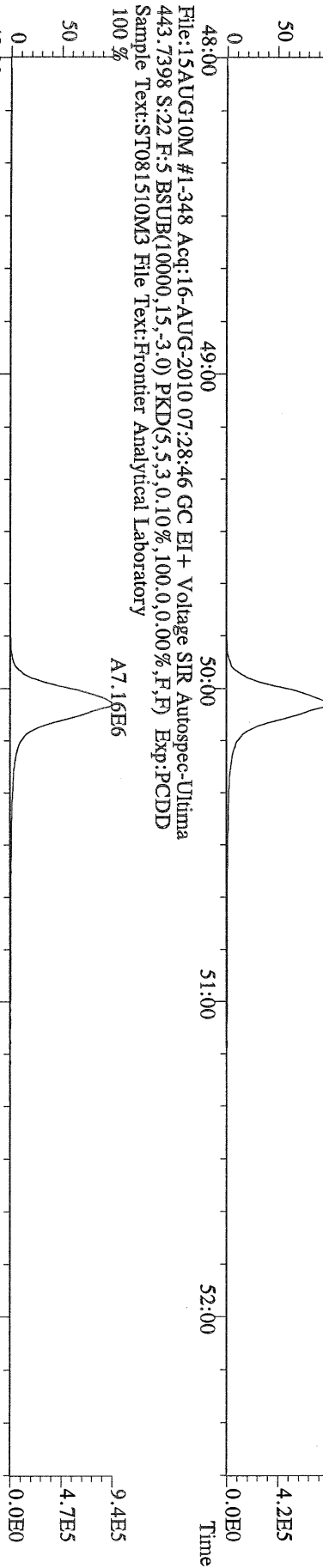
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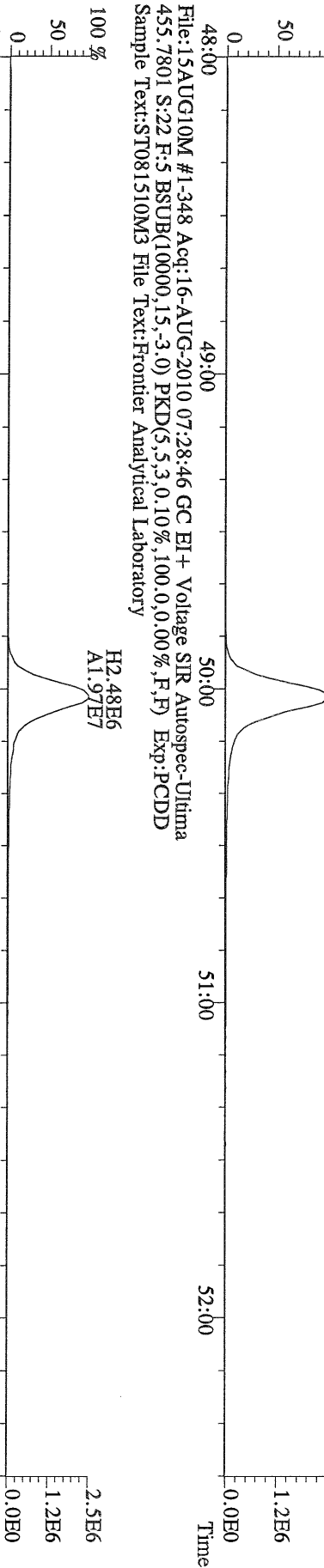
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Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory



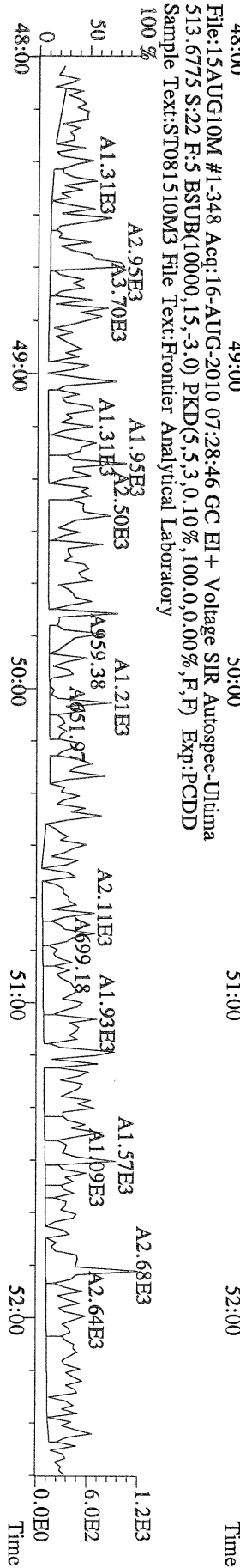
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 441.7428 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory
 100 %

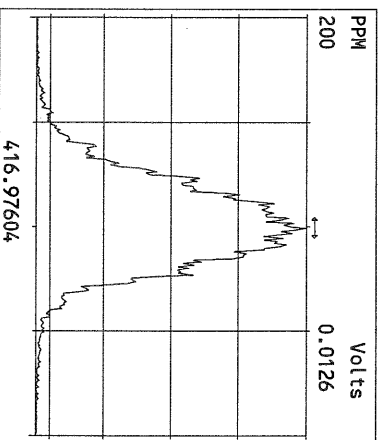
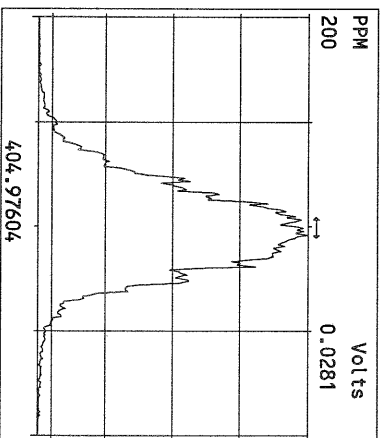
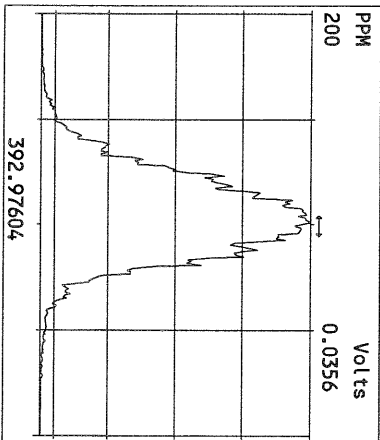
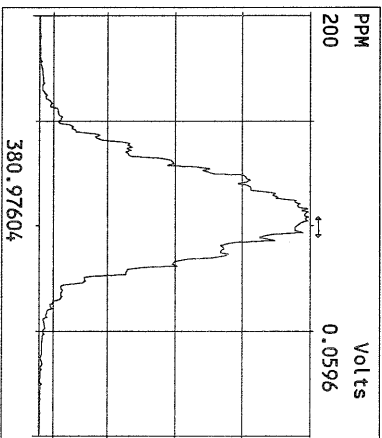
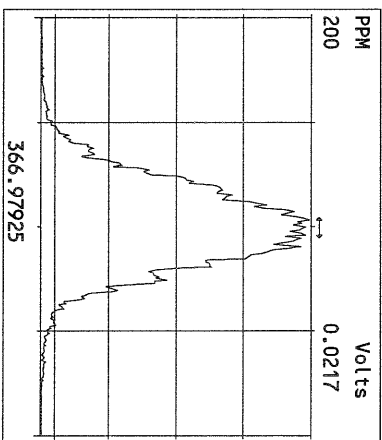
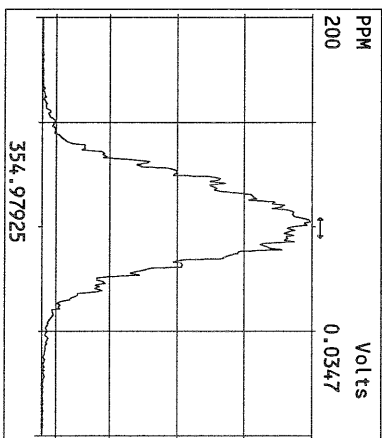
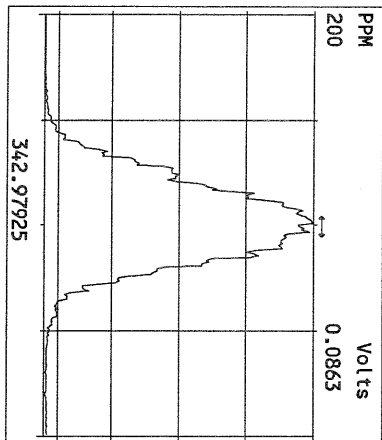
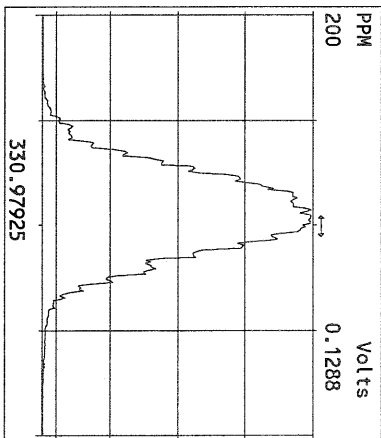
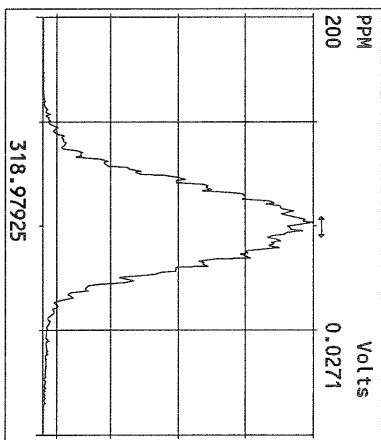
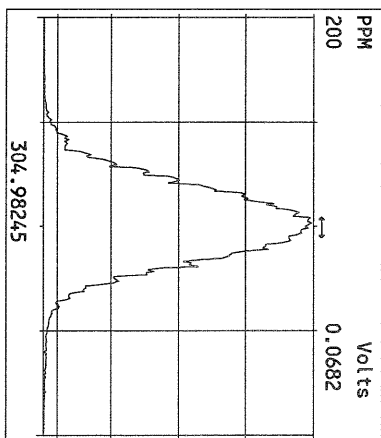
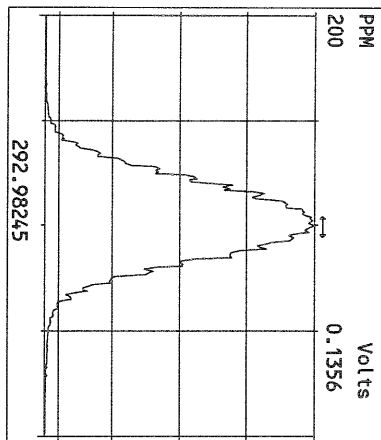


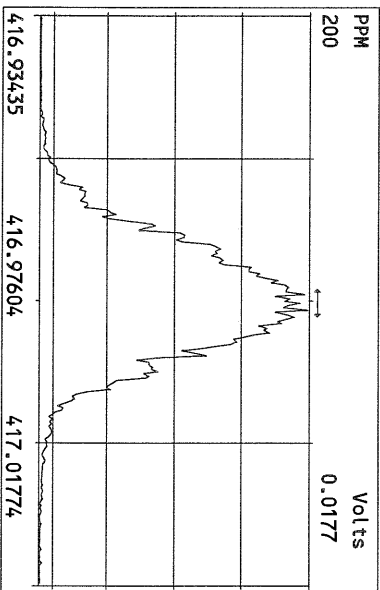
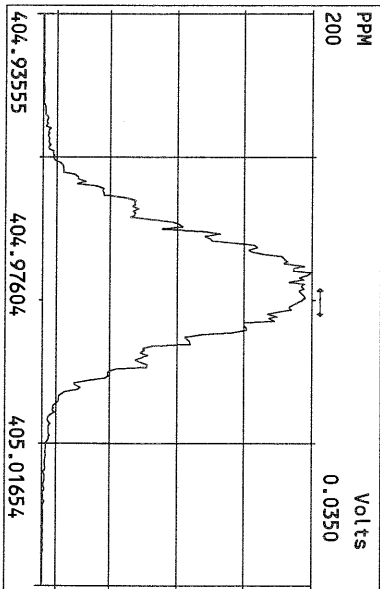
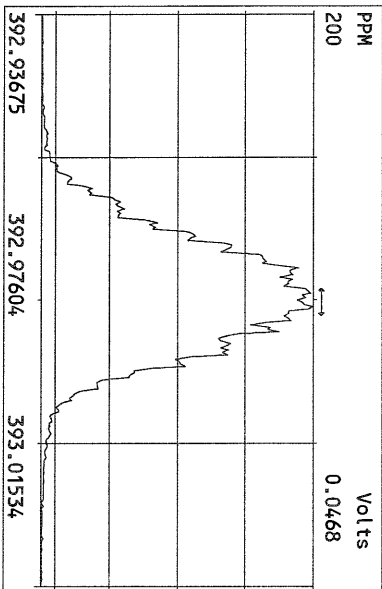
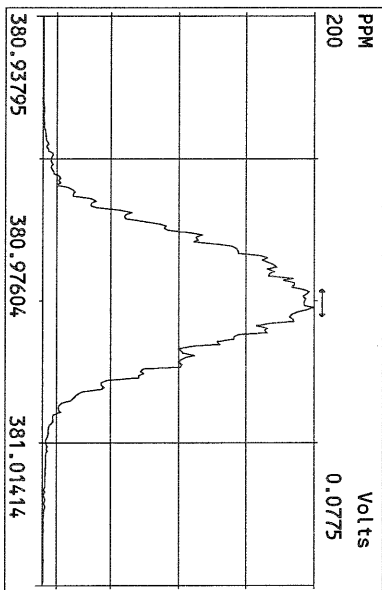
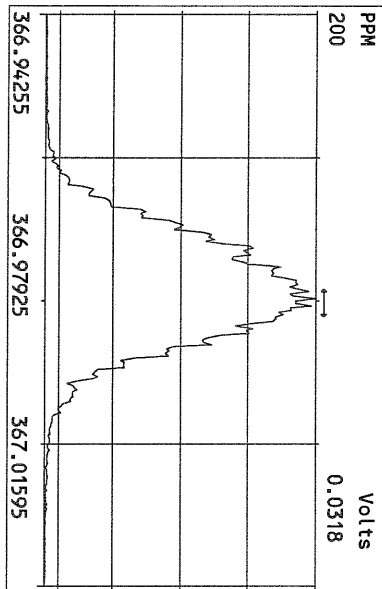
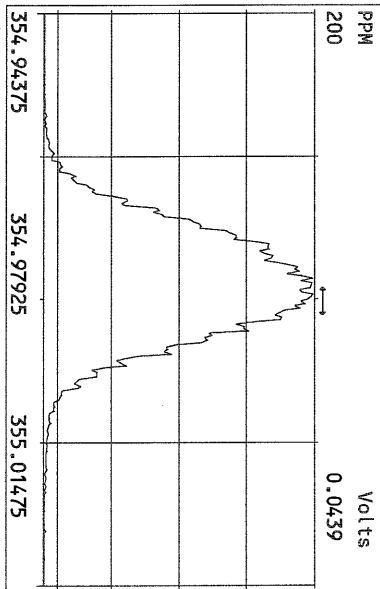
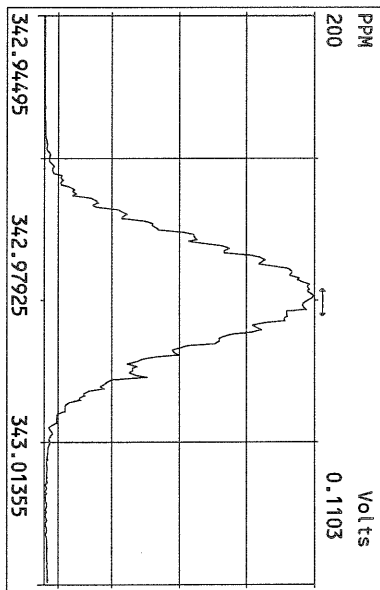
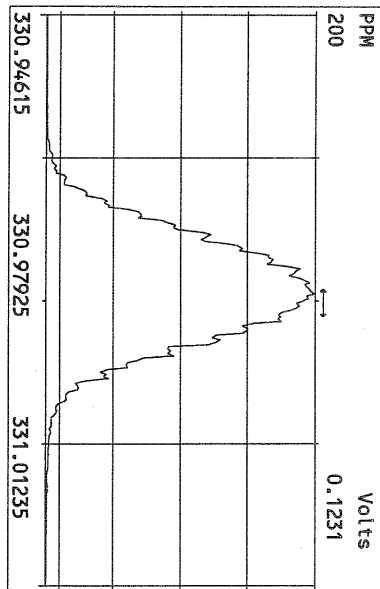
File:15AUG10M #1-348 Acq:16-AUG-2010 07:28:46 GC EI+ Voltage SIR Autospec-Ultima
 453.7831 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory
 100 %

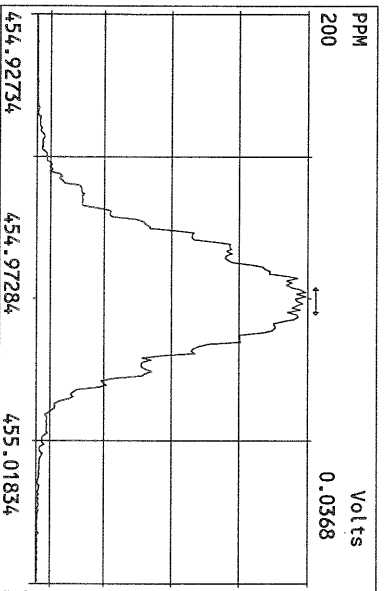
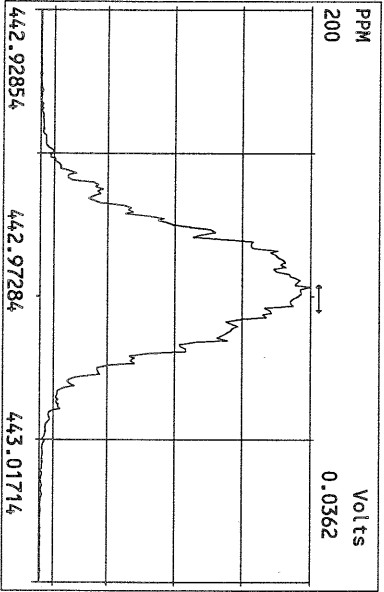
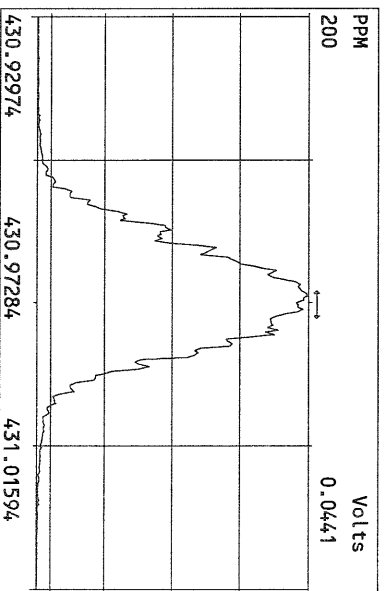
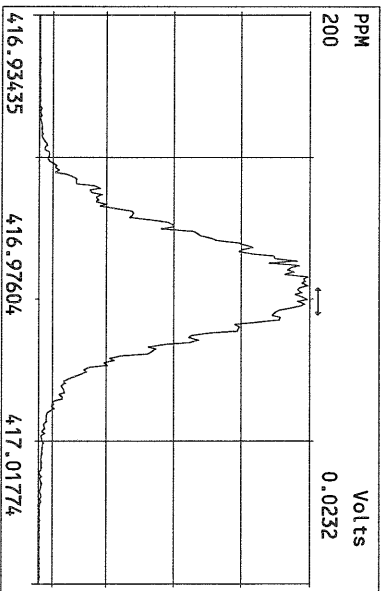
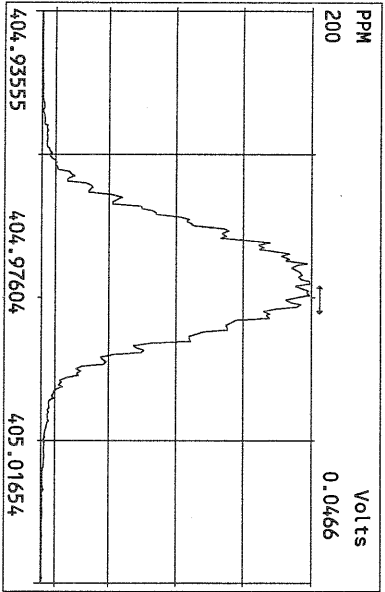
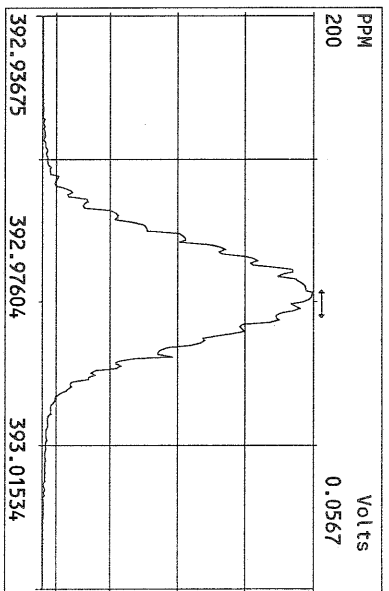
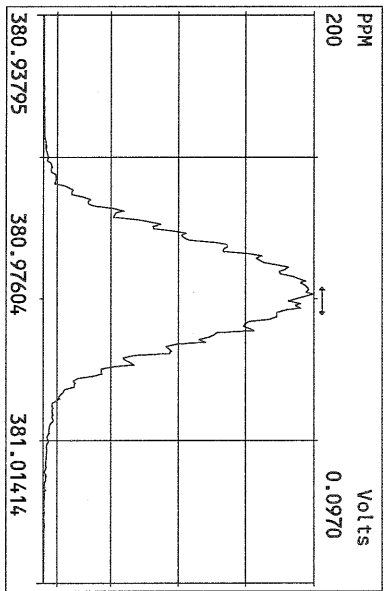
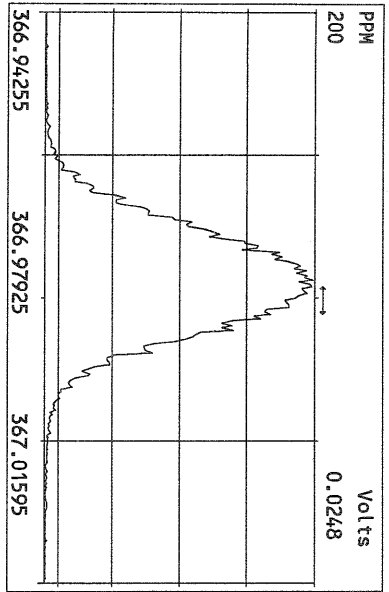


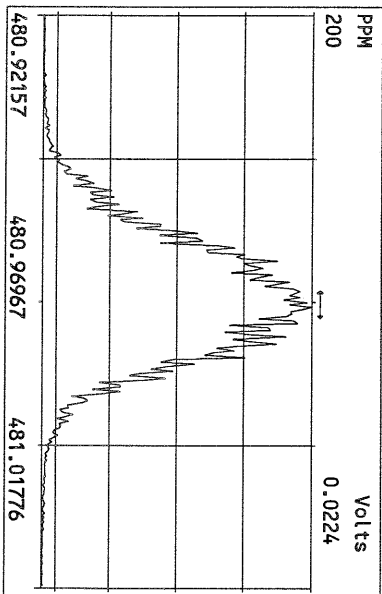
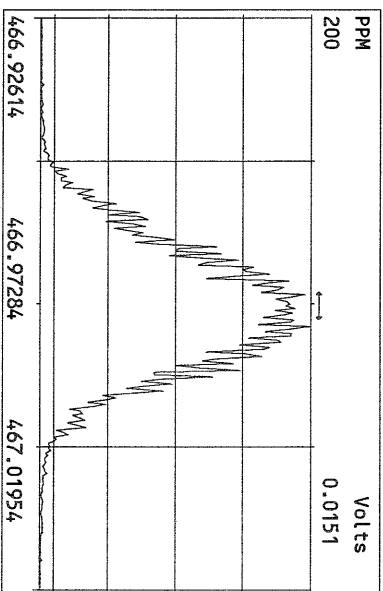
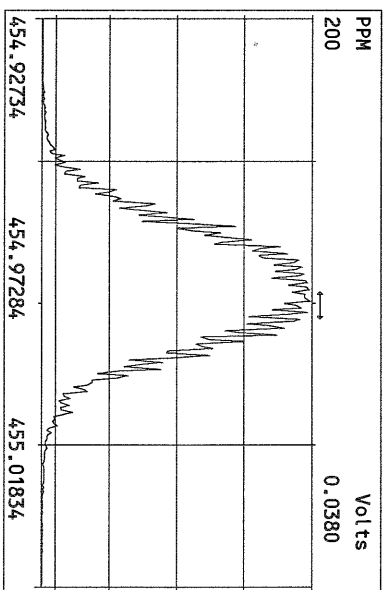
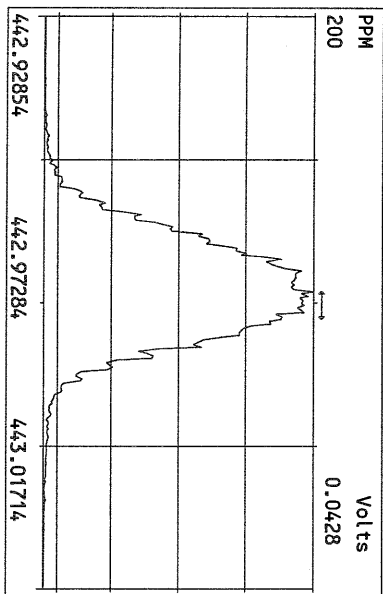
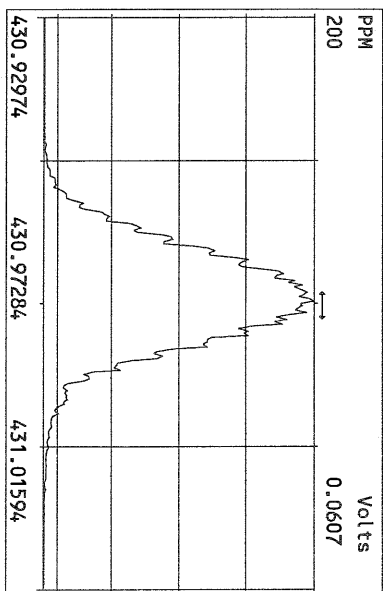
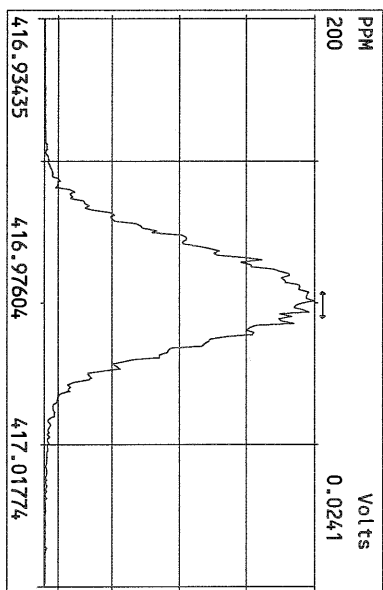
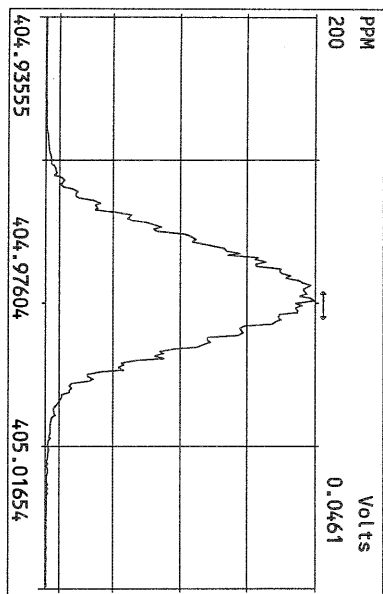
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 513.6775 S:22 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081510M3 File Text:Frontier Analytical Laboratory
 100 %

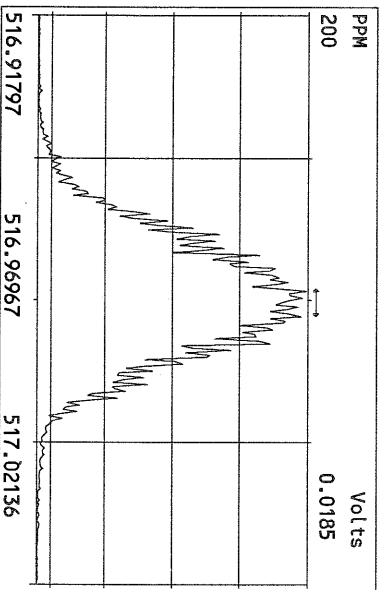
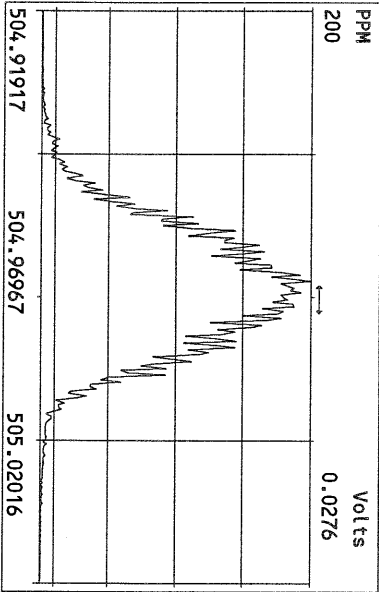
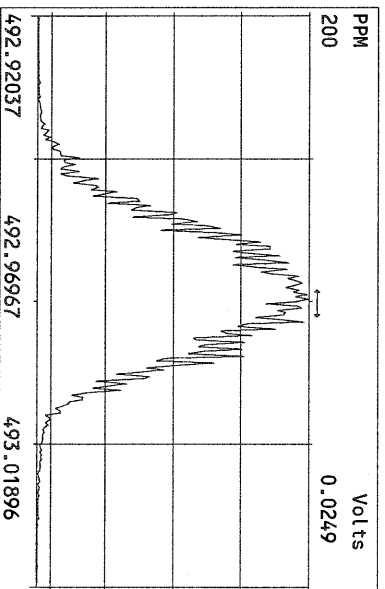
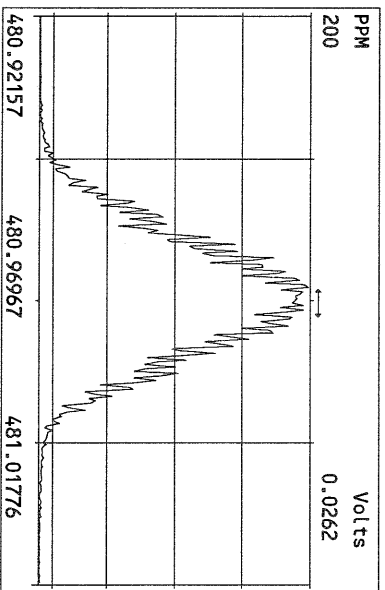
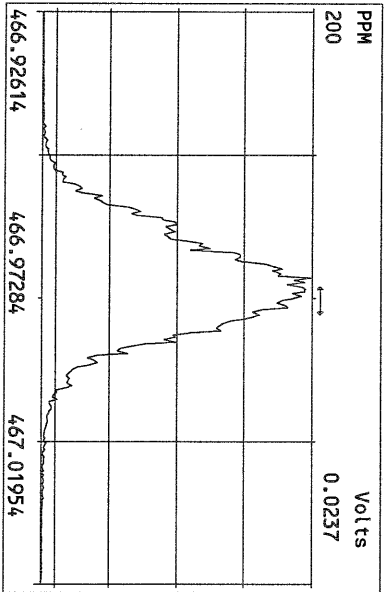
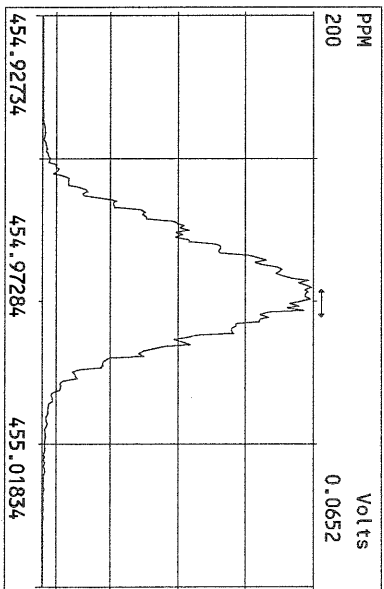
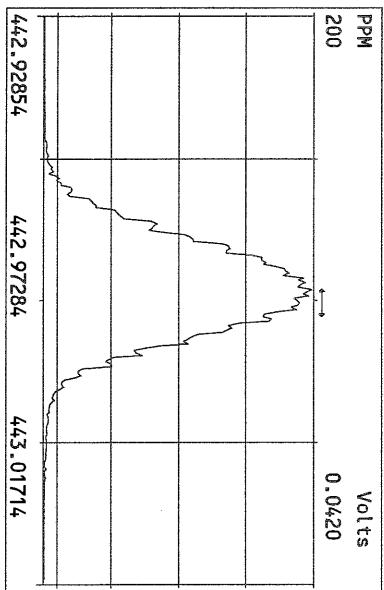
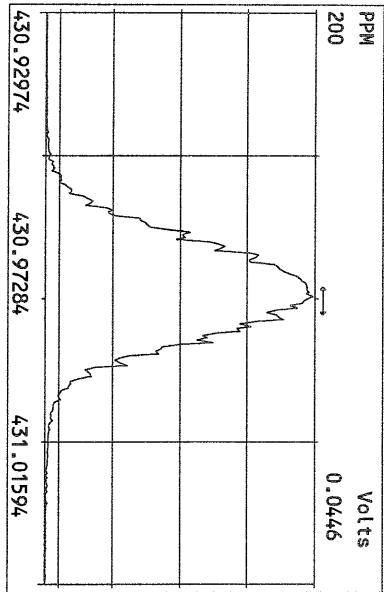












August 17, 2010

FAL Project: 6273

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

Dear Ms. Dunnihoo,

Enclosed are the results for Frontier Analytical Laboratory project **6273**. This corresponds to your **Lora Lake RI** project under ARI project number **RG59**. Eleven soil samples were received on 8/4/2010 in good condition. Per your request, a matrix spike and matrix spike duplicate (MS/MSD) were analyzed on sample 6273-005-SA (ARI ID: PSB06-0-0.5-072810). It should be noted that the contents of the two jars for sample 6273-005-SA and its MS/MSD were quite different. One of the jars contained a large amount of water. After discussions with you regarding our concerns, you instructed us to use the contents of the jar without an abundance of water. In addition, it appears that sample 6273-006-SA (ARI ID: PSB06-1.5-2.0-072810) and sample 6273-007-SA (ARI ID: PSB06-1.5-2.0-072810D) are duplicates of one another. It should be noted that the contents of sample 6273-006-SA were quite dry while the contents of 6273-007-SA had a fair amount of water in it. All samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors (TEFs) were used to calculate the toxic equivalents (TEQ) on your report. Analytical Resources Incorporated requested a Level IV data package and a turnaround time of fifteen business days for project **6273**.

Please note the analyte levels of 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8-HpCDF, OCDD, and OCDF in the original sample 6273-005-SA were much higher than the requested MS/MSD levels. This in turn resulted in the "+" qualifier; noting the inappropriate spike levels. In addition, samples 6273-001-SA, 6273-005-SA, 6273-006-SA, and 6273-007-SA had analytes outside the calibration range. This required a dilution and the results taken from the dilution are noted with the "*" qualifier.

The following Level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and the sample photo. The Laboratory Raw Data section contains our project request sheet, a percent solids sheet, an extraction bench sheet and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation

summary forms with chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all beginning and ending calibration injections associated with the samples and QC. You also requested Electronic Data Deliverables (EDD) for this project. The EDD and Level I summary have been sent to you via email. The Level IV report has been sent to you on compact disk. A hardcopy of the data package will not be forwarded unless specifically requested. The attached results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **6273**, please feel free to contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,



Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **6273**

Received on: **08/04/2010**

Project Due: **08/26/2010**

Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6273-001-SA	0	RG59	PSB04-0.0-0.5-072810	EPA 1613 D/F	Soil	07/28/2010	09:30 am	07/28/2011
6273-002-SA	0	RG59	PSB04-1.5-2.0-072810	EPA 1613 D/F	Soil	07/28/2010	09:33 am	07/28/2011
6273-003-SA	0	RG59	PSB05-0-0.5-072810	EPA 1613 D/F	Soil	07/28/2010	09:00 am	07/28/2011
6273-004-SA	0	RG59	PSB05-1.5-2.0-072810	EPA 1613 D/F	Soil	07/28/2010	09:01 am	07/28/2011
6273-005-SA	0	RG59	PSB06-0-0.5-072810	EPA 1613 D/F	Soil	07/28/2010	10:08 am	07/28/2011
6273-005-MS	0	RG59	PSB06-0-0.5-072810	EPA 1613 D/F	Soil	07/28/2010	10:08 am	07/28/2011
6273-005-MSD	0	RG59	PSB06-0-0.5-072810	EPA 1613 D/F	Soil	07/28/2010	10:08 am	07/28/2011
6273-006-SA	0	RG59	PSB06-1.5-2.0-072810	EPA 1613 D/F	Soil	07/28/2010	10:22 am	07/28/2011
6273-007-SA	0	RG59	PSB06-1.5-2.0-072810D	EPA 1613 D/F	Soil	07/28/2010	10:20 am	07/28/2011
6273-008-SA	0	RG59	PSB07-0-0.5-072810	EPA 1613 D/F	Soil	07/28/2010	07:59 am	07/28/2011
6273-009-SA	0	RG59	PSB07-1.5-2.0-072810	EPA 1613 D/F	Soil	07/28/2010	07:59 am	07/28/2011
6273-010-SA	0	RG59	PSB08-0-0.5-072810	EPA 1613 D/F	Soil	07/28/2010	11:03 am	07/28/2011
6273-011-SA	0	RG59	PSB08-1.5-2.0-072810	EPA 1613 D/F	Soil	07/28/2010	11:06 am	07/28/2011

FAL Sample ID

Notes

6273-005-SA 'Sue to Kathy: Use sample ID from COC.'
 6273-007-SA 'Sue to Kathy: Use sample ID from COC.'
 6273-005-MS Sue to Kathy: Use sample ID from COC.
 6273-005-MSD 'Sue to Kathy: Use sample ID from COC.'

EPA Method 1613
PCDD/F



FAL ID: 6273-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X2076

Date Extracted: 08-09-2010
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 08-11-2010
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.223		-	0.0262				
1,2,3,7,8-PeCDD	ND	0.300		-	0.0442				
1,2,3,4,7,8-HxCDD	ND	0.276		-	0.0486				
1,2,3,6,7,8-HxCDD	ND	0.332		-	0.0586	Total TCDD	ND	0.223	
1,2,3,7,8,9-HxCDD	ND	0.313		-	0.0529	Total PeCDD	ND	0.300	
1,2,3,4,6,7,8-HpCDD	ND	0.599		-	0.0954	Total HxCDD	ND	0.332	
OCDD	ND	1.68		-	0.154	Total HpCDD	ND	0.599	
2,3,7,8-TCDF	ND	0.118		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.214		-	0.0298				
2,3,4,7,8-PeCDF	ND	0.211		-	0.0313				
1,2,3,4,7,8-HxCDF	ND	0.195		-	0.0308				
1,2,3,6,7,8-HxCDF	ND	0.211		-	0.0317				
2,3,4,6,7,8-HxCDF	ND	0.210		-	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.264		-	0.0387	Total TCDF	ND	0.118	
1,2,3,4,6,7,8-HpCDF	ND	0.316		-	0.0418	Total PeCDF	ND	0.214	
1,2,3,4,7,8,9-HpCDF	ND	0.377		-	0.0429	Total HxCDF	ND	0.264	
OCDF	ND	0.736		-	0.105	Total HpCDF	ND	0.377	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	89.4	25.0 - 164	
13C-1,2,3,7,8-PeCDD	103	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	83.3	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	78.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	77.6	23.0 - 140	
13C-OCDD	73.9	17.0 - 157	
13C-2,3,7,8-TCDF	86.2	24.0 - 169	
13C-1,2,3,7,8-PeCDF	84.1	24.0 - 185	
13C-2,3,4,7,8-PeCDF	92.1	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	105	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	96.2	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	102	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	99.4	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	83.5	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	88.5	26.0 - 138	
13C-OCDF	83.0	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 97.2 35.0 - 197

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

Analyst: [Signature]
Date: 8/12/10

Reviewed By: [Signature]
Date: 8/12/10

EPA Method 1613
PCDD/F



FAL ID: 6273-001-SA
Client ID: PSB04-0.0-0.5-072810
Matrix: Soil
Batch No: X2076

Date Extracted: 08-09-2010
Date Received: 08-04-2010
Amount: 4.08 g
% Solids: 90.79

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 08-11-2010
2005 WHO TEQ: 194

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	7.18	-		7.18	0.0262				
1,2,3,7,8-PeCDD	30.0	-		30.0	0.0442				
1,2,3,4,7,8-HxCDD	37.6	-		3.76	0.0486				
1,2,3,6,7,8-HxCDD	184	-		18.4	0.0586	Total TCDD	127		-
1,2,3,7,8,9-HxCDD	117	-		11.7	0.0529	Total PeCDD	318		-
1,2,3,4,6,7,8-HpCDD	7300	-	*	73.0	0.0954	Total HxCDD	1660		-
OCDD	77100	-	*	23.1	0.154	Total HpCDD	15500		-
2,3,7,8-TCDF	0.964	-	J	0.0964	0.0205				
1,2,3,7,8-PeCDF	2.34	-	J	0.0702	0.0298				
2,3,4,7,8-PeCDF	4.97	-	J	1.49	0.0313				
1,2,3,4,7,8-HxCDF	23.8	-		2.38	0.0308				
1,2,3,6,7,8-HxCDF	15.5	-		1.55	0.0317				
2,3,4,6,7,8-HxCDF	24.5	-		2.45	0.0341				
1,2,3,7,8,9-HxCDF	3.72	-	J	0.372	0.0387	Total TCDF	44.8		-
1,2,3,4,6,7,8-HpCDF	1630	-		16.3	0.0418	Total PeCDF	164		-
1,2,3,4,7,8,9-HpCDF	39.2	-		0.392	0.0429	Total HxCDF	991		-
OCDF	7290	-		2.19	0.105	Total HpCDF	5580		-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	104	25.0 - 164	
13C-1,2,3,7,8-PeCDD	104	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	110	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	95.4	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	97.2	23.0 - 140	*
13C-OCDD	97.0	17.0 - 157	*
13C-2,3,7,8-TCDF	104	24.0 - 169	
13C-1,2,3,7,8-PeCDF	103	24.0 - 185	
13C-2,3,4,7,8-PeCDF	107	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	114	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	103	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	107	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	109	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	97.8	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	106	26.0 - 138	
13C-OCDF	109	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 95.2 35.0 - 197

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

Analyst: 6
Date: 8/16/10

Reviewed By: DN
Date: 8/16/10

EPA Method 1613
PCDD/F



FAL ID: 6273-002-SA
Client ID: PSB04-1.5-2.0-072810
Matrix: Soil
Batch No: X2076

Date Extracted: 08-09-2010
Date Received: 08-04-2010
Amount: 4.18 g
% Solids: 87.07

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 08-10-2010
2005 WHO TEQ: 1.29

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.291		-	0.0262				
1,2,3,7,8-PeCDD	ND	0.422		-	0.0442				
1,2,3,4,7,8-HxCDD	0.539	-	J	0.0539	0.0486				
1,2,3,6,7,8-HxCDD	1.33	-	J	0.133	0.0586	Total TCDD	1.84	-	
1,2,3,7,8,9-HxCDD	1.01	-	J	0.101	0.0529	Total PeCDD	2.09	-	J
1,2,3,4,6,7,8-HpCDD	31.8	-		0.318	0.0954	Total HxCDD	13.0	-	
OCDD	249	-		0.0747	0.154	Total HpCDD	65.7	-	
2,3,7,8-TCDF	0.344	-	J	0.0344	0.0205				
1,2,3,7,8-PeCDF	ND	0.445		-	0.0298				
2,3,4,7,8-PeCDF	ND	0.456		-	0.0313				
1,2,3,4,7,8-HxCDF	0.945	-	J	0.0945	0.0308				
1,2,3,6,7,8-HxCDF	0.680	-	J	0.0680	0.0317				
2,3,4,6,7,8-HxCDF	0.887	-	J	0.0887	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.316		-	0.0387	Total TCDF	4.20	-	
1,2,3,4,6,7,8-HpCDF	31.8	-		0.318	0.0418	Total PeCDF	4.94	-	J
1,2,3,4,7,8,9-HpCDF	ND	1.08		-	0.0429	Total HxCDF	17.4	-	
OCDF	28.2	-		0.00846	0.105	Total HpCDF	53.9	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	101	25.0 - 164	
13C-1,2,3,7,8-PeCDD	98.4	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	108	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	97.4	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	81.1	23.0 - 140	
13C-OCDD	54.8	17.0 - 157	
13C-2,3,7,8-TCDF	104	24.0 - 169	
13C-1,2,3,7,8-PeCDF	98.4	24.0 - 185	
13C-2,3,4,7,8-PeCDF	100	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	117	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	107	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	103	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	104	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	81.8	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	88.5	26.0 - 138	
13C-OCDF	60.4	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 97.4 35.0 - 197

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

Analyst: [Signature]
Date: 8/10/10

Reviewed By: [Signature]
Date: 8/12/10

EPA Method 1613
PCDD/F



FAL ID: 6273-003-SA
Client ID: PSB05-0-0.5-072810
Matrix: Soil
Batch No: X2076

Date Extracted: 08-09-2010
Date Received: 08-04-2010
Amount: 4.19 g
% Solids: 92.77

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 08-11-2010
2005 WHO TEQ: 8.51

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	0.451	-	J	0.451	0.0262				
1,2,3,7,8-PeCDD	1.17	-	J	1.17	0.0442				
1,2,3,4,7,8-HxCDD	1.56	-	J	0.156	0.0486				
1,2,3,6,7,8-HxCDD	8.00	-	-	0.800	0.0586	Total TCDD	5.65		-
1,2,3,7,8,9-HxCDD	4.23	-	J	0.423	0.0529	Total PeCDD	11.9		-
1,2,3,4,6,7,8-HpCDD	285	-	-	2.85	0.0954	Total HxCDD	57.3		-
OCDD	3370	-	-	1.01	0.154	Total HpCDD	565		-
2,3,7,8-TCDF	0.413	-	J	0.0413	0.0205				
1,2,3,7,8-PeCDF	0.380	-	J	0.0114	0.0298				
2,3,4,7,8-PeCDF	0.562	-	J	0.169	0.0313				
1,2,3,4,7,8-HxCDF	1.89	-	J	0.189	0.0308				
1,2,3,6,7,8-HxCDF	1.30	-	J	0.130	0.0317				
2,3,4,6,7,8-HxCDF	1.79	-	J	0.179	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.466	-	-	0.0387	Total TCDF	6.56		-
1,2,3,4,6,7,8-HpCDF	82.0	-	-	0.820	0.0418	Total PeCDF	12.4		-
1,2,3,4,7,8,9-HpCDF	2.19	-	J	0.0219	0.0429	Total HxCDF	49.8		-
OCDF	298	-	-	0.0894	0.105	Total HpCDF	242		-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	101	25.0 - 164	
13C-1,2,3,7,8-PeCDD	99.4	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	105	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	92.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	94.9	23.0 - 140	
13C-OCDD	81.2	17.0 - 157	
13C-2,3,7,8-TCDF	104	24.0 - 169	
13C-1,2,3,7,8-PeCDF	103	24.0 - 185	
13C-2,3,4,7,8-PeCDF	106	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	102	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	94.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	98.2	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	108	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	85.2	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	99.9	26.0 - 138	
13C-OCDF	80.4	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 95.9 35.0 - 197

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

Analyst: [Signature]
Date: 8/10/10

Reviewed By: [Signature]
Date: 8/12/10

EPA Method 1613
PCDD/F



FAL ID: 6273-004-SA
Client ID: PSB05-1.5-2.0-072810
Matrix: Soil
Batch No: X2076

Date Extracted: 08-09-2010
Date Received: 08-04-2010
Amount: 3.80 g
% Solids: 84.17

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 08-10-2010
2005 WHO TEQ: 12.8

Compound	Conc	DL	Qual	2005		Compound	Conc	DL	Qual
				WHO Tox	MDL				
2,3,7,8-TCDD	0.832	-	J	0.832	0.0262				
1,2,3,7,8-PeCDD	1.15	-	J	1.15	0.0442				
1,2,3,4,7,8-HxCDD	1.91	-	J	0.191	0.0486				
1,2,3,6,7,8-HxCDD	12.1	-	-	1.21	0.0586	Total TCDD	13.6	-	-
1,2,3,7,8,9-HxCDD	4.24	-	J	0.424	0.0529	Total PeCDD	16.7	-	-
1,2,3,4,6,7,8-HpCDD	425	-	-	4.25	0.0954	Total HxCDD	72.5	-	-
OCDD	5160	-	-	1.55	0.154	Total HpCDD	832	-	-
2,3,7,8-TCDF	1.38	-	-	0.138	0.0205				
1,2,3,7,8-PeCDF	1.54	-	J	0.0462	0.0298				
2,3,4,7,8-PeCDF	1.74	-	J	0.522	0.0313				
1,2,3,4,7,8-HxCDF	6.89	-	-	0.689	0.0308				
1,2,3,6,7,8-HxCDF	2.99	-	J	0.299	0.0317				
2,3,4,6,7,8-HxCDF	4.12	-	J	0.412	0.0341				
1,2,3,7,8,9-HxCDF	2.07	-	J	0.207	0.0387	Total TCDF	46.1	-	-
1,2,3,4,6,7,8-HpCDF	77.5	-	-	0.775	0.0418	Total PeCDF	42.7	-	-
1,2,3,4,7,8,9-HpCDF	4.48	-	J	0.0448	0.0429	Total HxCDF	114	-	-
OCDF	219	-	-	0.0657	0.105	Total HpCDF	265	-	-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	104	25.0 - 164	
13C-1,2,3,7,8-PeCDD	102	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	108	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	98.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	93.0	23.0 - 140	
13C-OCDD	81.0	17.0 - 157	
13C-2,3,7,8-TCDF	105	24.0 - 169	
13C-1,2,3,7,8-PeCDF	103	24.0 - 185	
13C-2,3,4,7,8-PeCDF	107	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	118	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	106	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	106	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	109	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	90.5	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	97.5	26.0 - 138	
13C-OCDF	78.2	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 93.5 35.0 - 197

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

Analyst: [Signature]
Date: 8/10/10

Reviewed By: [Signature]
Date: 8/12/10

EPA Method 1613
PCDD/F



FAL ID: 6273-005-SA
Client ID: PSB06-0-0.5-072810
Matrix: Soil
Batch No: X2076

Date Extracted: 08-09-2010
Date Received: 08-04-2010
Amount: 4.01 g
% Solids: 90.41

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 08-11-2010
2005 WHO TEQ: 96.3

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	1.71	-		1.71	0.0262				
1,2,3,7,8-PeCDD	10.1	-		10.1	0.0442				
1,2,3,4,7,8-HxCDD	18.5	-		1.85	0.0486				
1,2,3,6,7,8-HxCDD	97.6	-		9.76	0.0586	Total TCDD	34.3		-
1,2,3,7,8,9-HxCDD	46.7	-		4.67	0.0529	Total PeCDD	103		-
1,2,3,4,6,7,8-HpCDD	4180	-		41.8	0.0954	Total HxCDD	735		-
OCDD	44200	-	*	13.3	0.154	Total HpCDD	8150		-
2,3,7,8-TCDF	0.696	-	J	0.0696	0.0205				
1,2,3,7,8-PeCDF	1.23	-	J	0.0369	0.0298				
2,3,4,7,8-PeCDF	1.94	-	J	0.582	0.0313				
1,2,3,4,7,8-HxCDF	8.68	-		0.868	0.0308				
1,2,3,6,7,8-HxCDF	7.12	-		0.712	0.0317				
2,3,4,6,7,8-HxCDF	12.4	-		1.24	0.0341				
1,2,3,7,8,9-HxCDF	1.84	-	J	0.184	0.0387	Total TCDF	25.0		-
1,2,3,4,6,7,8-HpCDF	799	-		7.99	0.0418	Total PeCDF	77.2		-
1,2,3,4,7,8,9-HpCDF	20.3	-		0.203	0.0429	Total HxCDF	497		-
OCDF	4060	-		1.22	0.105	Total HpCDF	2910		-

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	106	25.0 - 164	
13C-1,2,3,7,8-PeCDD	108	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	108	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	93.8	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	103	23.0 - 140	
13C-OCDD	76.5	17.0 - 157	*
13C-2,3,7,8-TCDF	110	24.0 - 169	
13C-1,2,3,7,8-PeCDF	110	24.0 - 185	
13C-2,3,4,7,8-PeCDF	115	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	104	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	96.0	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	100	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	110	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	90.9	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	105	26.0 - 138	
13C-OCDF	89.8	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 105 35.0 - 197

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

Analyst: 8
Date: 8/16/10

Reviewed By: DN
Date: 8/16/10

