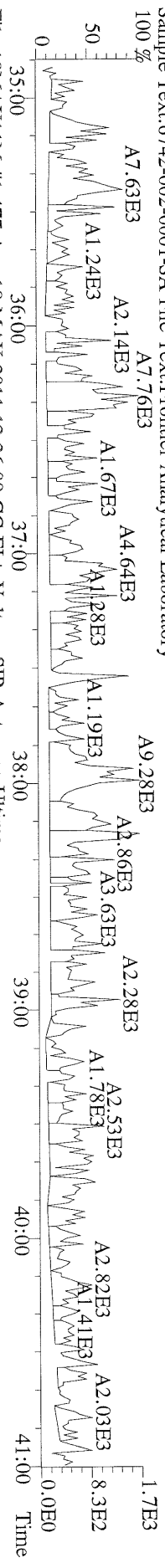
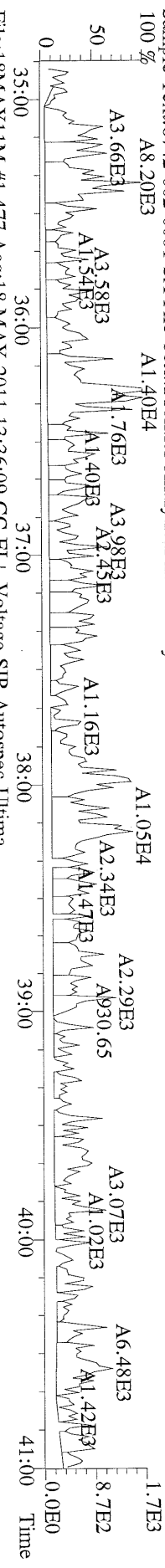


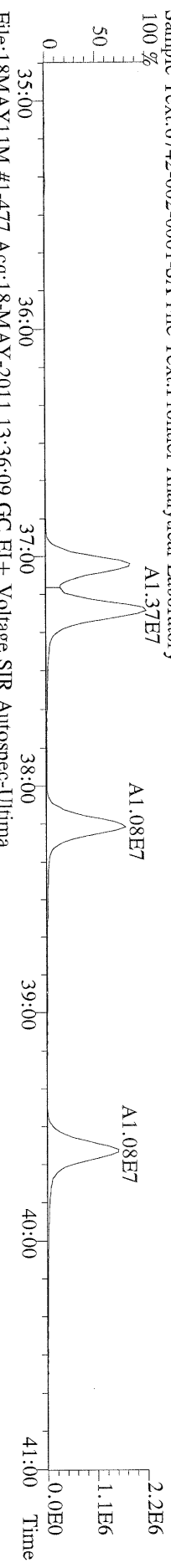
File:18MAYY11M #1-477 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Utima
 373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



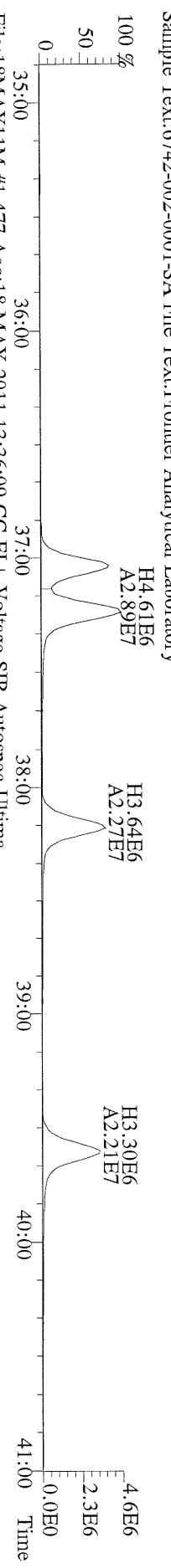
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 375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



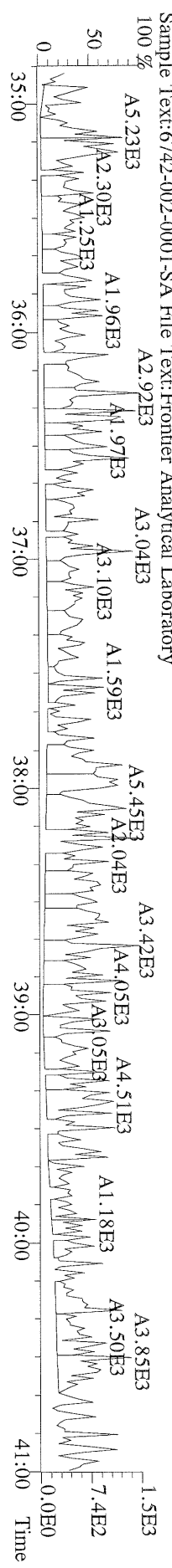
File:18MAYY11M #1-477 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Utima
 385.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



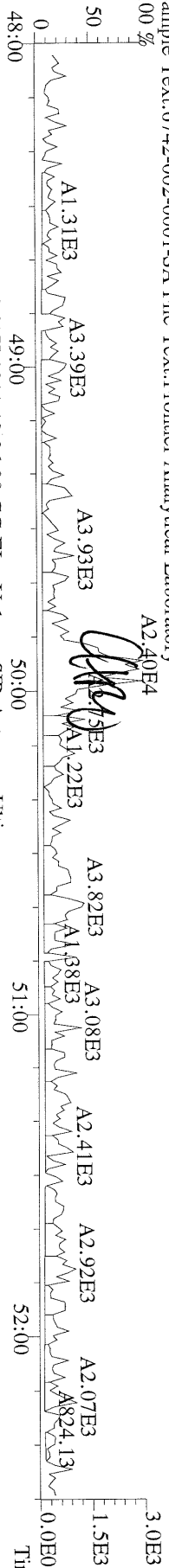
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 385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



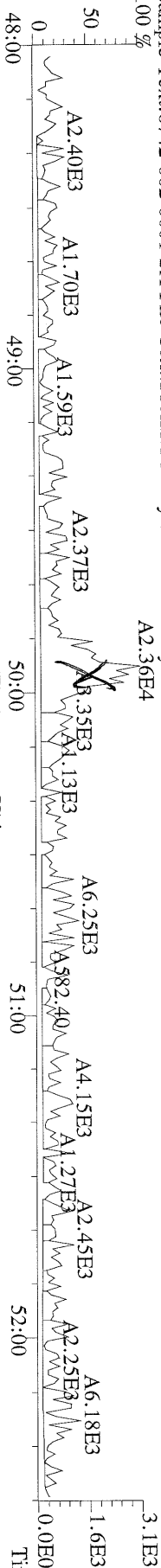
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 445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



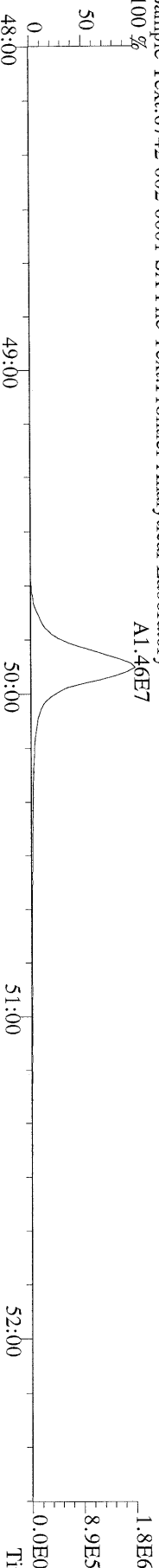
File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



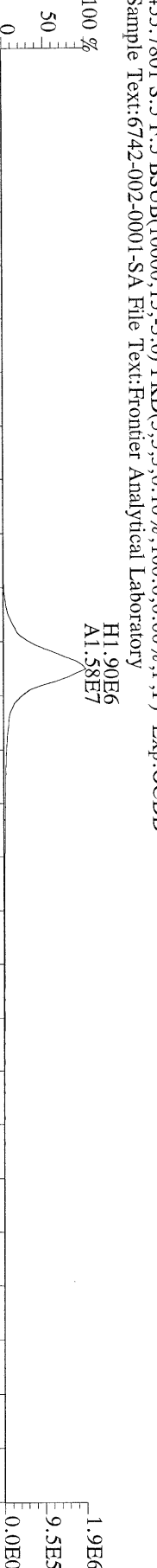
File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



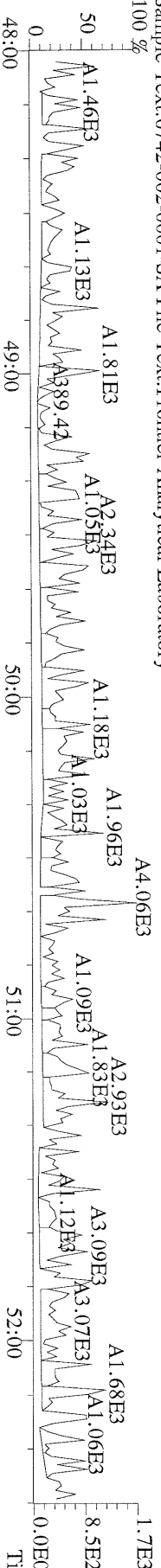
File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima
455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima
513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory

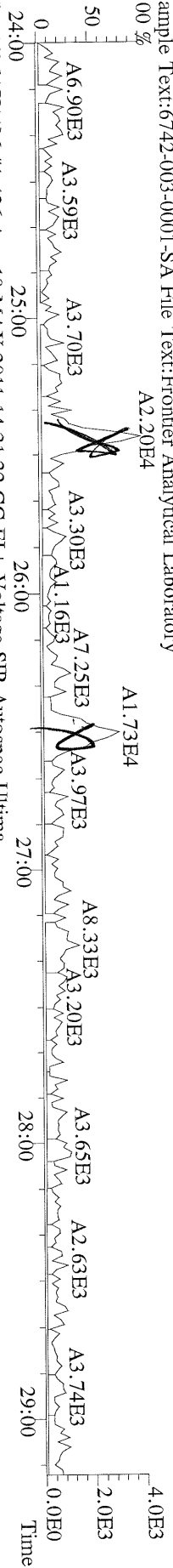


Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	DL
2,3,7,8-TCDD	*	* n	NotFnd	1.13	*	2.50	628	696	0.556	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*	2.50	896	844	1.17	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.45	*	2.50	628	652	0.921	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.45	*	2.50	628	652	1.16	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.47	*	2.50	628	652	1.02	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.30	*	2.50	560	568	1.49	
OCDD	*	* n	NotFnd	1.45	*	2.50	1130	942	4.98	
2,3,7,8-TCDF	*	* n	NotFnd	1.15	*	2.50	776	1060	0.490	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.89	*	2.50	672	936	0.770	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.89	*	2.50	672	936	0.836	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.01	*	2.50	1030	694	1.12	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.89	*	2.50	1030	694	1.09	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.02	*	2.50	1030	694	1.19	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.10	*	2.50	1030	694	1.19	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.48	*	2.50	488	492	0.994	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.43	*	2.50	488	492	1.57	
OCDF	*	* n	NotFnd	0.84	*	2.50	456	556	2.59	
										Rec
13C-2,3,7,8-TCDD	4.35e+07	0.78 y	27:16	1.03	1760					91.6
13C-1,2,3,7,8-PeCDD	3.80e+07	1.73 y	33:04	1.01	1570					81.5
13C-1,2,3,4,7,8-HxCDD	2.70e+07	1.29 y	38:25	1.19	1710					88.7
13C-1,2,3,6,7,8-HxCDD	2.24e+07	1.28 y	38:35	0.94	1800					93.6
13C-1,2,3,4,6,7,8-HpCDD	1.93e+07	1.04 y	44:01	0.83	1760					91.4
13C-OCDD	2.21e+07	0.95 y	49:33	0.61	2730					71.0
13C-2,3,7,8-TCDF	6.85e+07	0.87 y	26:30	0.98	1770					92.2
13C-1,2,3,7,8-PeCDF	5.67e+07	1.66 y	31:20	0.83	1730					90.2
13C-2,3,4,7,8-PeCDF	5.45e+07	1.67 y	32:39	0.80	1720					89.5
13C-1,2,3,4,7,8-HxCDF	4.24e+07	0.47 y	37:02	1.84	1730					90.1
13C-1,2,3,6,7,8-HxCDF	5.34e+07	0.48 y	37:14	2.29	1750					91.1
13C-2,3,4,6,7,8-HxCDF	4.25e+07	0.49 y	38:10	1.86	1720					89.2
13C-1,2,3,7,8,9-HxCDF	4.23e+07	0.48 y	39:37	1.98	1600					83.4
13C-1,2,3,4,6,7,8-HpCDF	2.03e+07	0.47 y	42:07	0.99	1540					80.3
13C-1,2,3,4,7,8,9-HpCDF	1.45e+07	0.47 y	44:57	0.77	1420					74.0
13C-OCDF	3.81e+07	0.96 y	49:55	1.17	2460					63.9
37Cl-2,3,7,8-TCDD	1.21e+07		27:17	0.73	693					90.1
13C-1,2,3,4-TCDD	4.62e+07	0.79 y	26:41	-	117					
13C-1,2,3,4-TCDF	7.58e+07	0.86 y	25:26	-	101					
13C-1,2,3,7,8,9-HxCDD	2.56e+07	1.26 y	39:03	-	99.1					
Total Tetra-Dioxins	*		NotFnd	1.13	*	2.50	628	696	0.556	0
Total Penta-Dioxins	*		NotFnd	1.02	*	2.50	896	844	1.17	0
Total Hexa-Dioxins	*		NotFnd	1.46	*	2.50	628	652	1.16	0
Total Hepta-Dioxins	*		NotFnd	1.30	*	2.50	560	568	1.49	0
Total Tetra-Furans	*		NotFnd	1.15	*	2.50	776	1060	0.490	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.89	*	2.50	672	936	0.836	PeCDF 0
Total Penta-Furans	*		NotFnd	0.89	*	2.50	672	936	0.836	* 0
Total Hexa-Furans	*		NotFnd	1.00	*	2.50	1030	694	1.19	0
Total Hepta-Furans	*		NotFnd	1.46	*	2.50	488	492	1.57	0

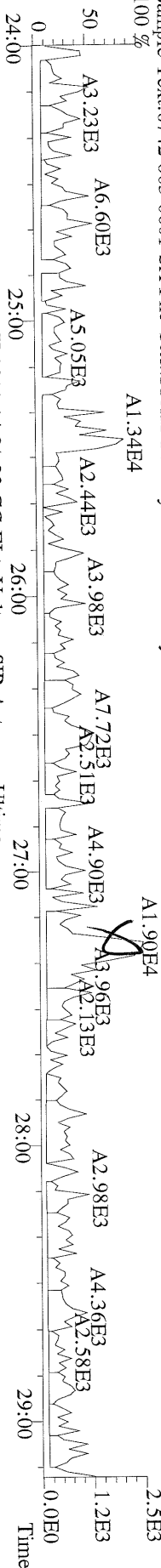
Analyst: J

Date: 5/19/11

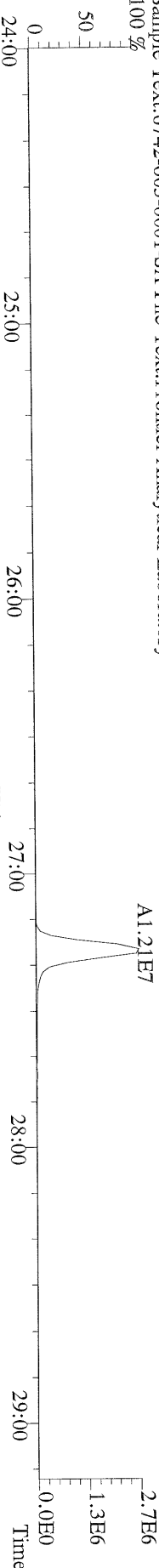
File:18MAY11M #1-426 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima
 319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



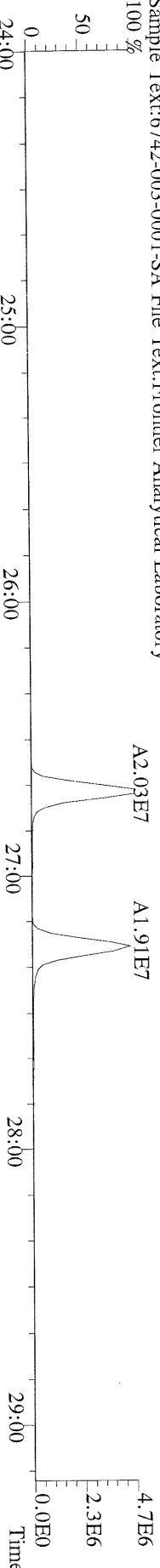
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 321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



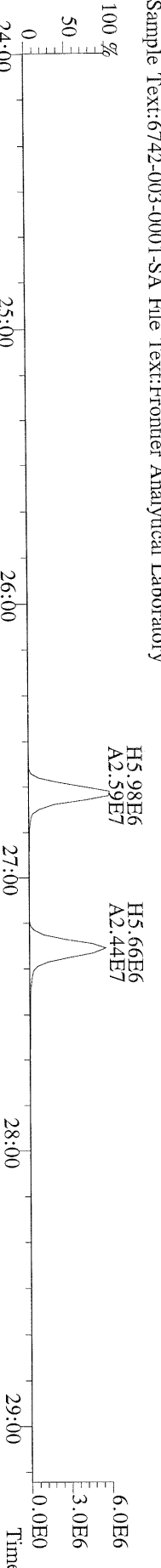
File:18MAY11M #1-426 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima
 327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



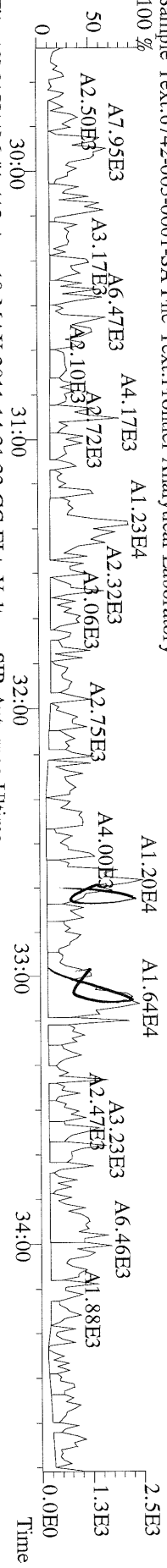
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 331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



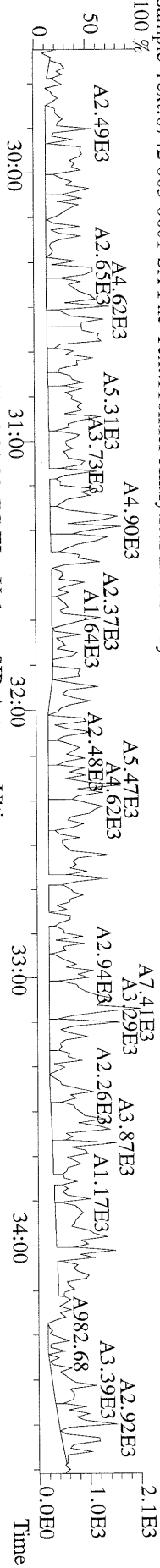
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 333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



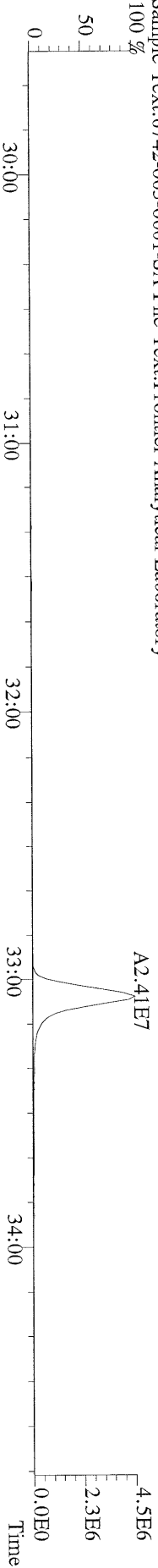
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 355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



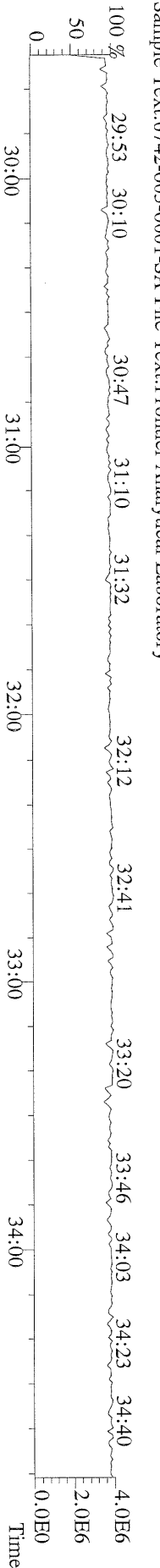
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 357.8517 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



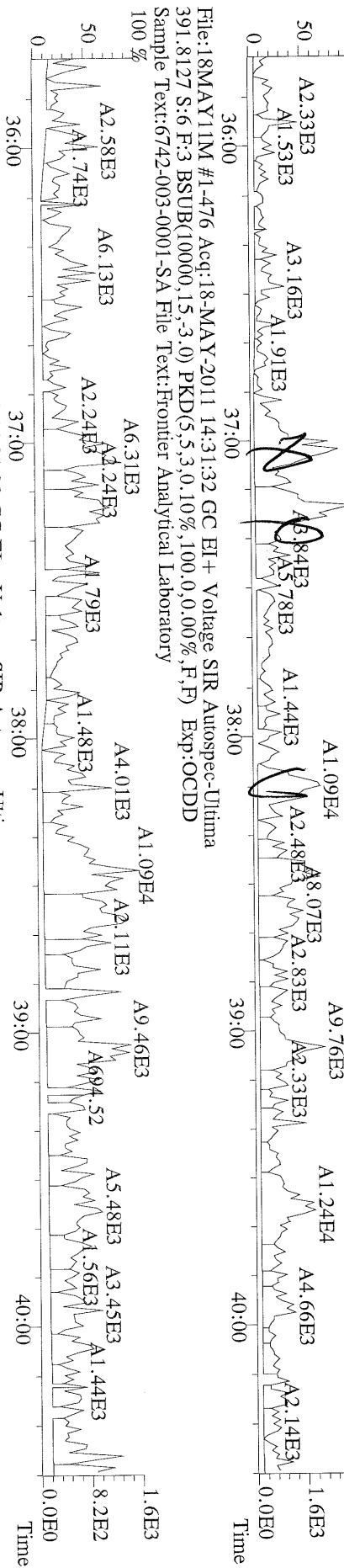
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 369.8919 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



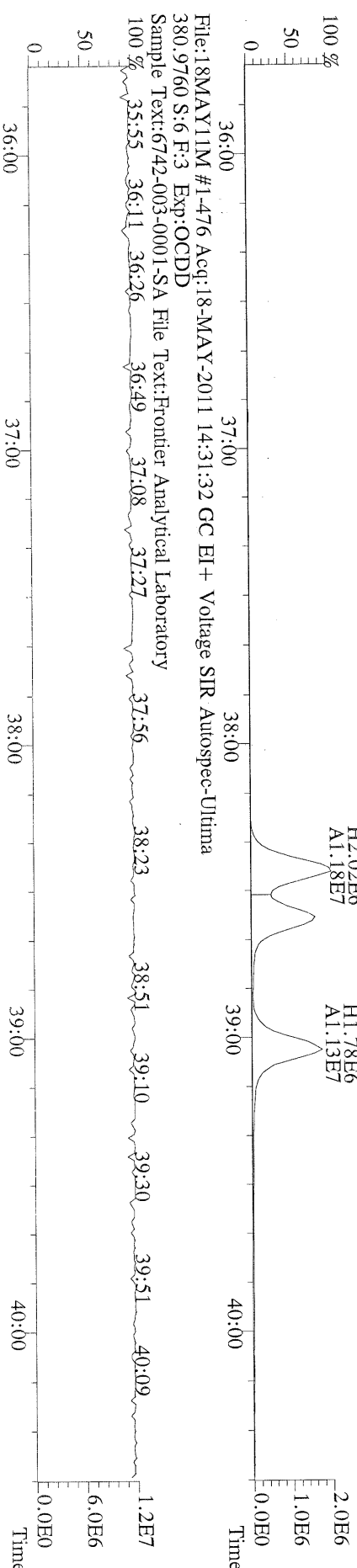
File:18MAY11M #1-412 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima
 366.9792 S:6 F:2 Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-476 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



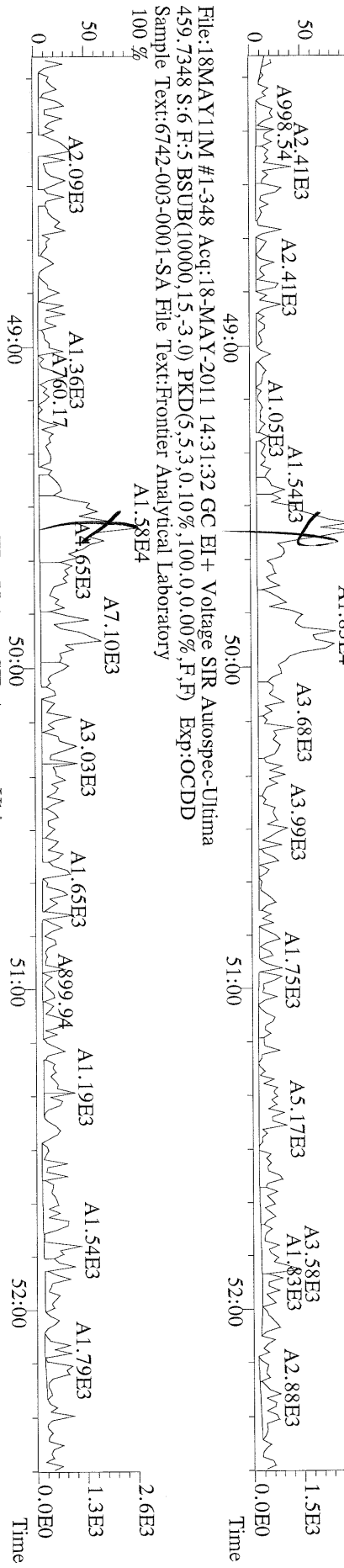
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 401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



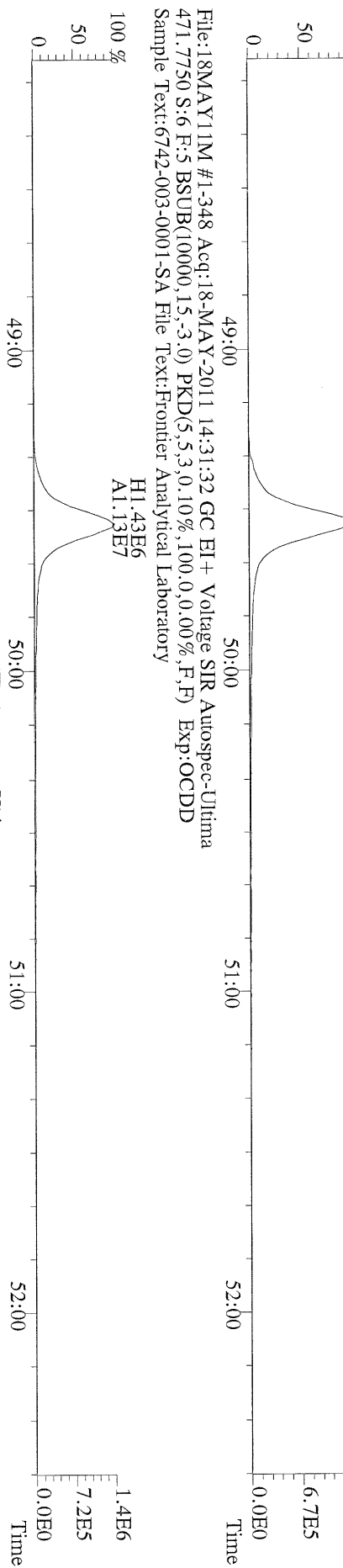
File:18MAY11M #1-476 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 S:6 F:3 Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



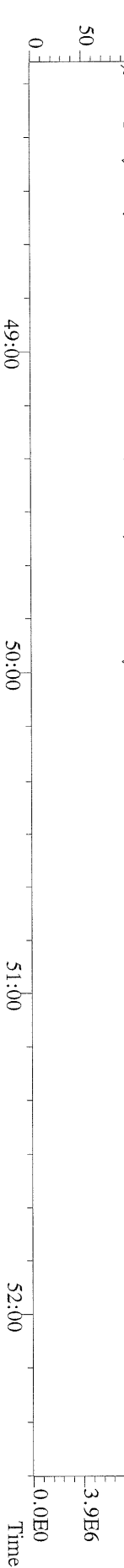
File:18MAY11M #1-348 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



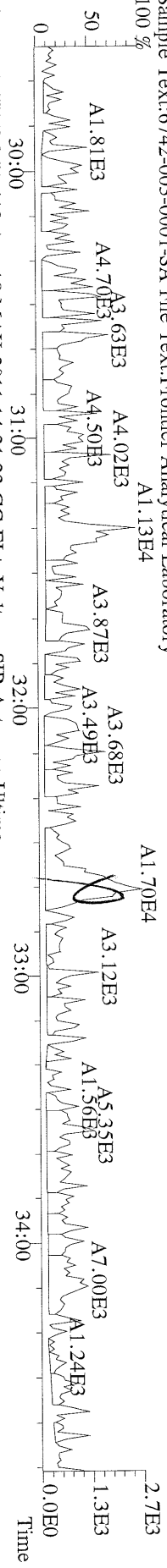
File:18MAY11M #1-348 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima
 469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



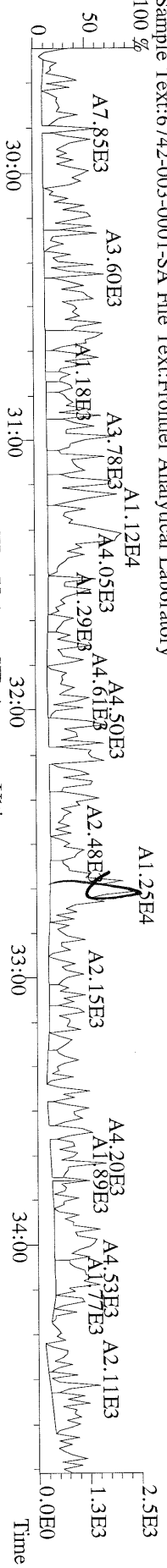
File:18MAY11M #1-348 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima
 454.9728 S:6 F:5 Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



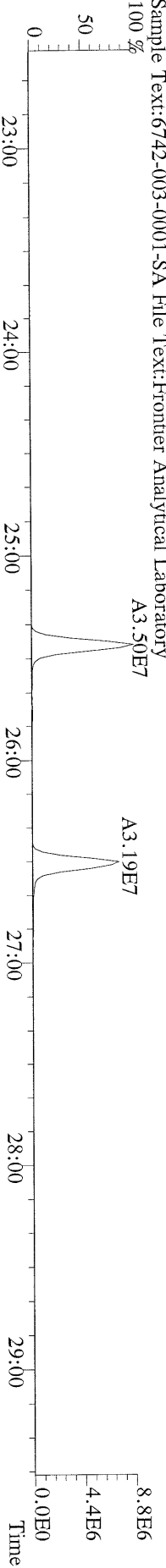
File:18MAY11M #1-412 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima
 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



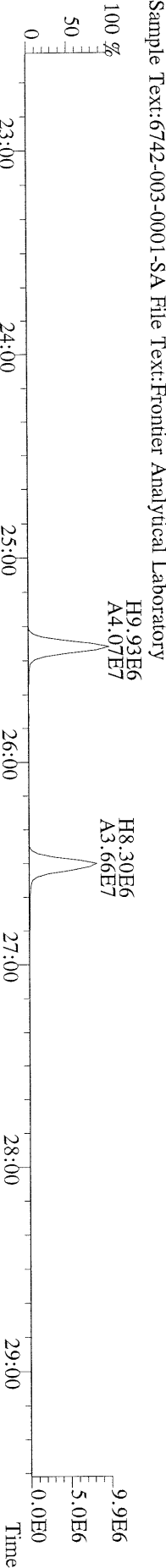
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 341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



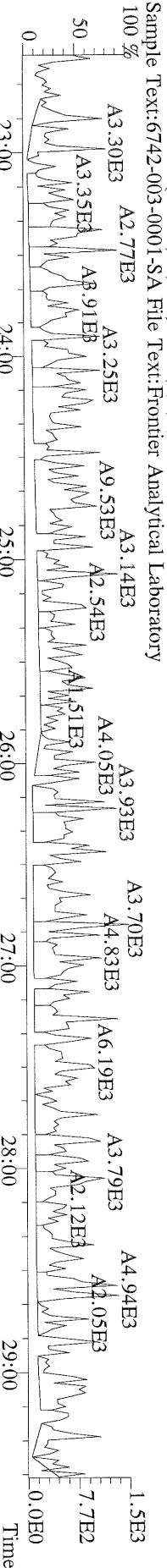
File:18MAY11M #1-426 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima
 315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



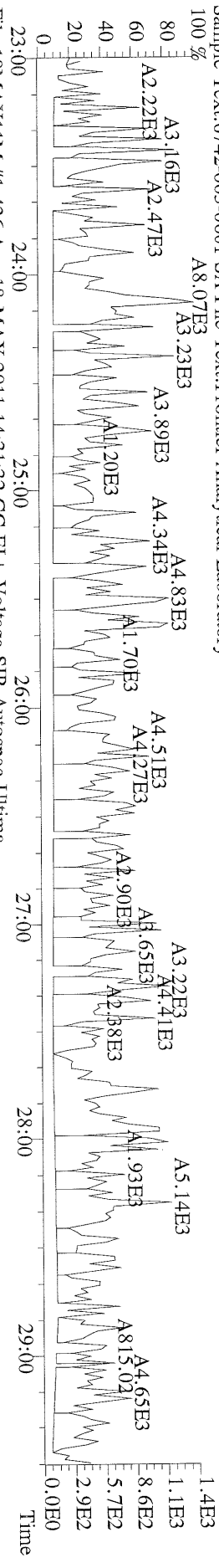
File:18MAY11M #1-426 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima
 317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



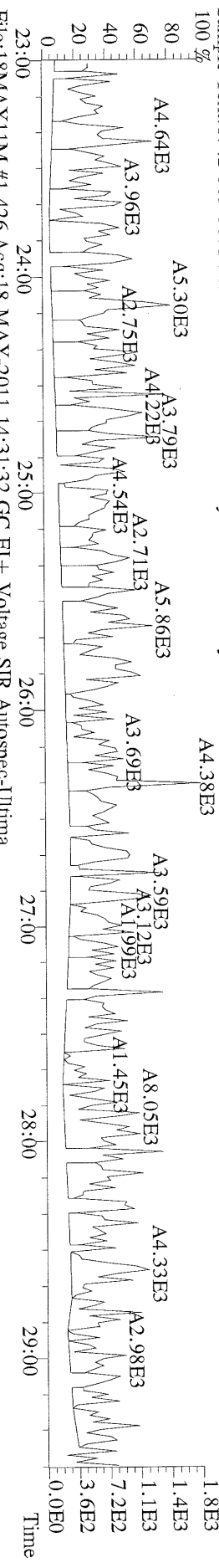
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 375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



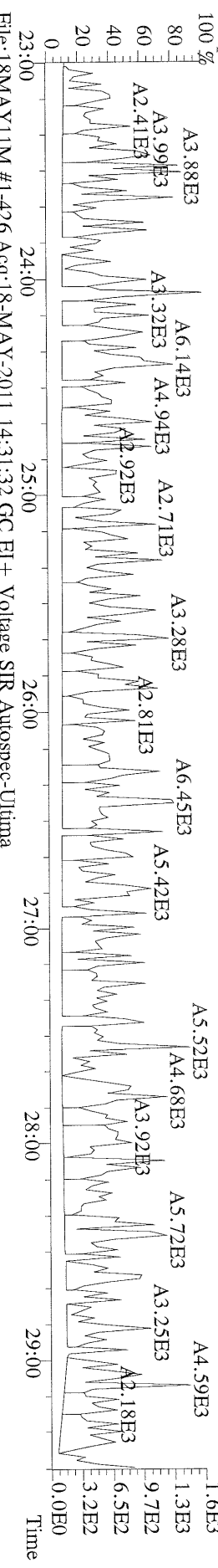
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 339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



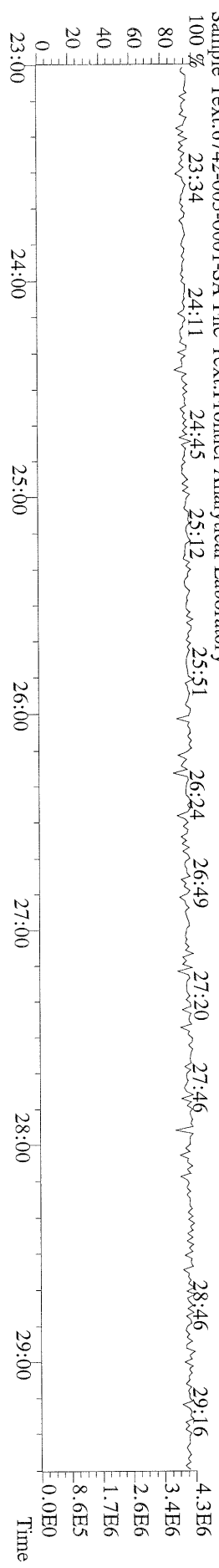
File:18MAY11M #1-426 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima
 341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



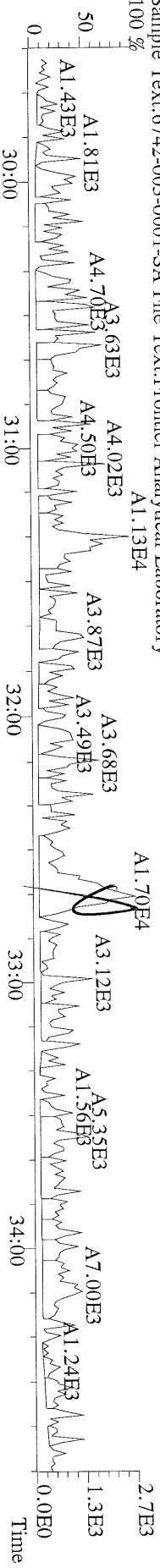
File:18MAY11M #1-426 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima
 409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



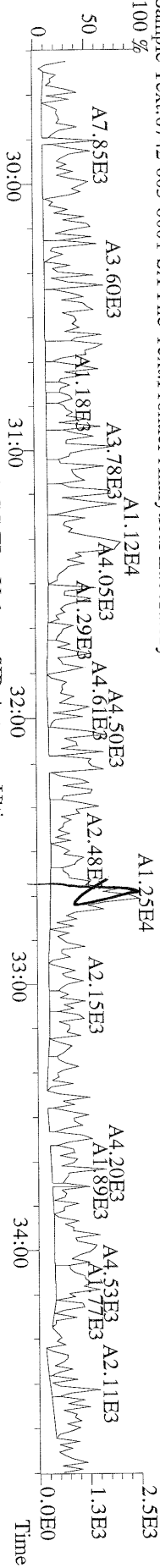
File:18MAY11M #1-426 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima
 316.9824 S:6 Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



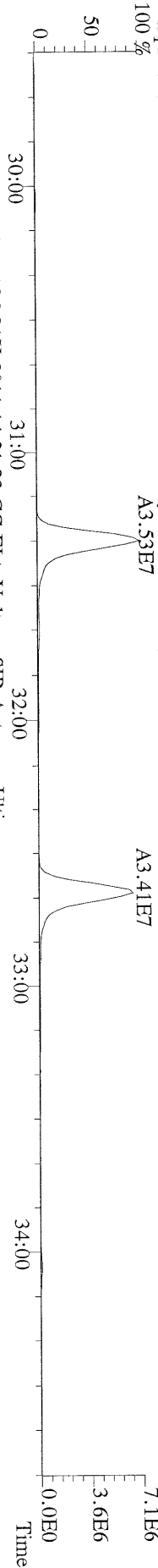
File:18MAY11M #1-412 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima
 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



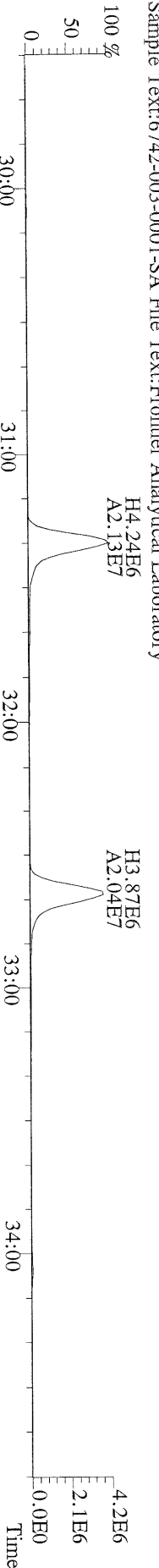
File:18MAY11M #1-412 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima
 341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



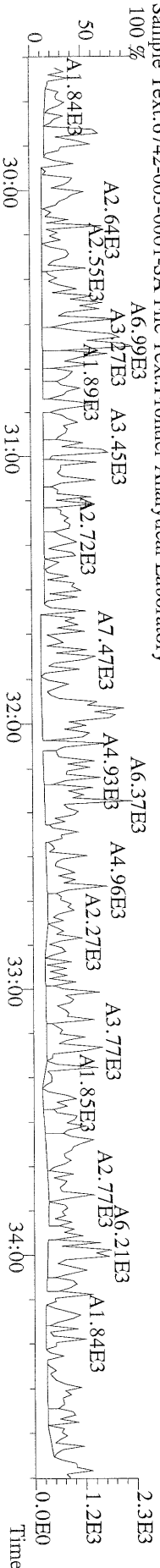
File:18MAY11M #1-412 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima
 351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



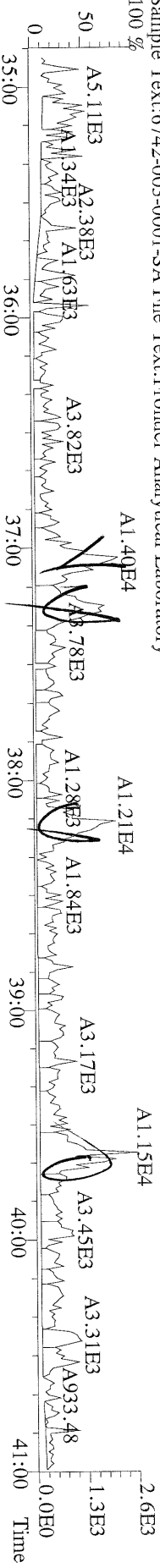
File:18MAY11M #1-412 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima
 353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-412 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima
 409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



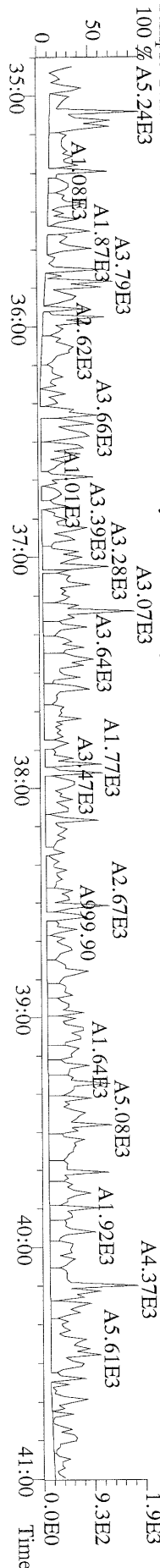
File:18MAY11M #1-476 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



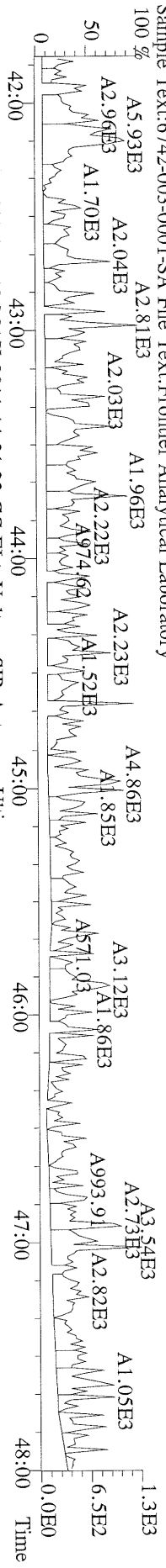
File:18MAY11M #1-476 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima
 383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



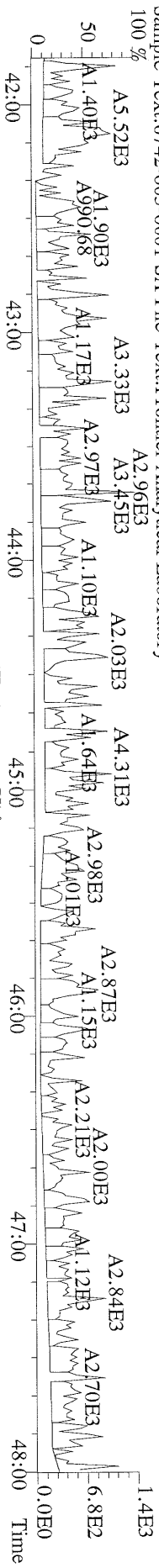
File:18MAY11M #1-476 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima
 445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



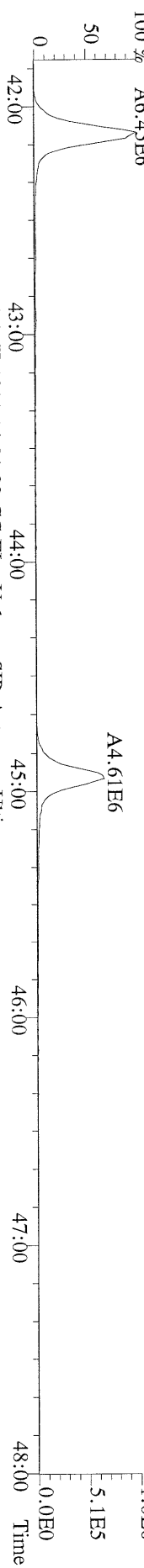
File:18MAY11M #1-541 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Utima
 407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



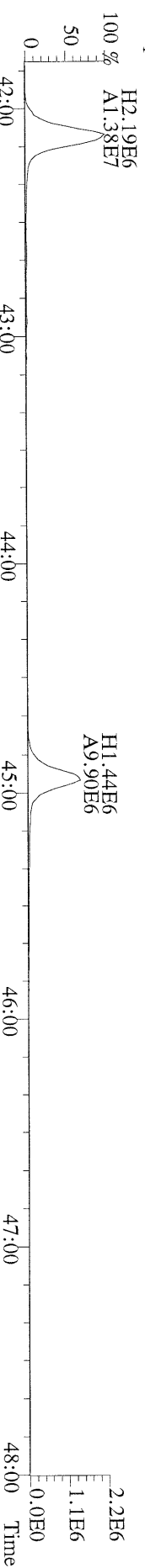
File:18MAY11M #1-541 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Utima
 409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



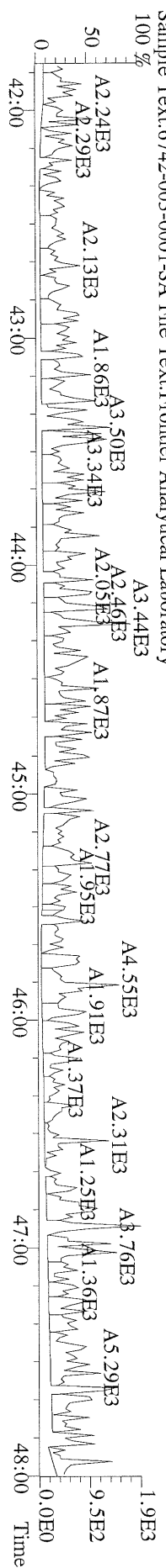
File:18MAY11M #1-541 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Utima
 417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



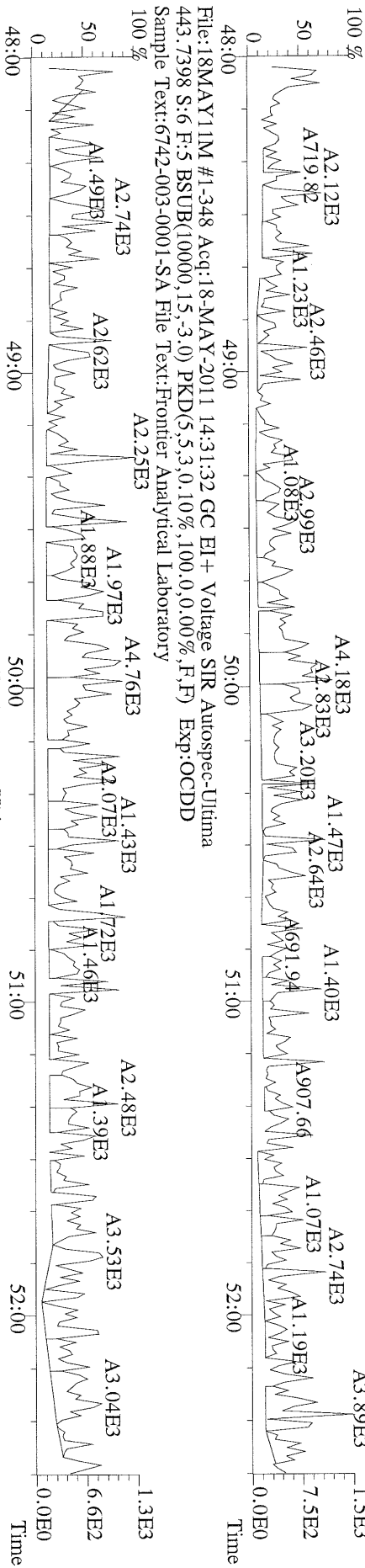
File:18MAY11M #1-541 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Utima
 419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



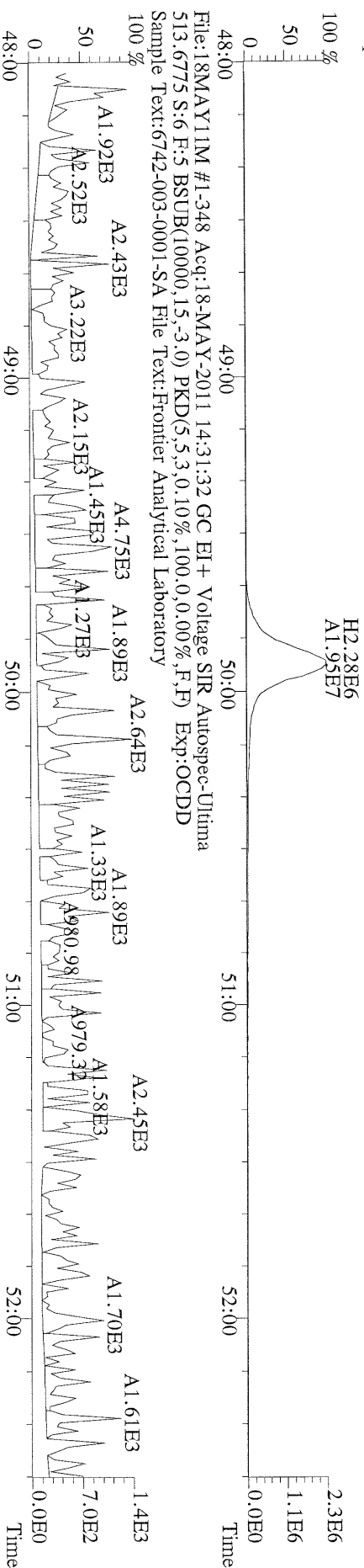
File:18MAY11M #1-541 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Utima
 479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



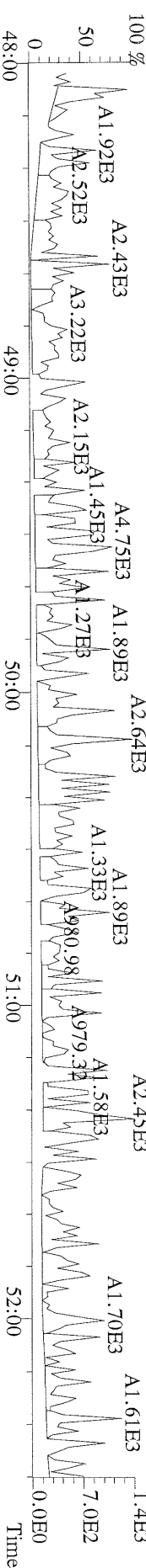
File:18MAY11M #1-348 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima
 441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-348 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima
 453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-348 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima
 513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



Run #1 Filename 07MAR11M
Client ID: ST030711M3

S: 1 Acquired: 7-MAR-11 11:58:32 Cal: PCDDFAL3-3-7-11
Analyte: FAL ID: 1613 CS3 100511J

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	10.00	4.22e+06	0.83 y	27:27	-	1.14 y
2	Unk 1,2,3,7,8-PeCDD	50.00	1.89e+07	1.44 y	33:17	-	1.00 y
3	Unk 1,2,3,4,7,8-HxCDD	50.00	2.00e+07	1.27 y	38:40	-	1.38 y
4	Unk 1,2,3,6,7,8-HxCDD	50.00	1.59e+07	1.26 y	38:50	-	1.43 y
5	Unk 1,2,3,7,8,9-HxCDD	50.00	1.85e+07	1.24 y	39:17	-	1.44 y
6	Unk 1,2,3,4,6,7,8-HpCDD	50.00	1.27e+07	0.90 y	44:16	-	1.23 y
7	Unk OCDD	100.00	2.05e+07	0.94 y	49:51	-	1.38 y
8	Unk 2,3,7,8-TCDF	10.00	7.31e+06	0.67 y	26:41	-	1.08 y
9	Unk 1,2,3,7,8-PeCDF	50.00	2.55e+07	1.66 y	31:33	-	0.903 y
10	Unk 2,3,4,7,8-PeCDF	50.00	2.43e+07	1.65 y	32:52	-	0.876 y
11	Unk 1,2,3,4,7,8-HxCDF	50.00	2.17e+07	1.20 y	37:16	-	0.998 y
12	Unk 1,2,3,6,7,8-HxCDF	50.00	2.44e+07	1.22 y	37:28	-	0.887 y
13	Unk 2,3,4,6,7,8-HxCDF	50.00	2.24e+07	1.20 y	38:24	-	0.997 y
14	Unk 1,2,3,7,8,9-HxCDF	50.00	2.60e+07	1.21 y	39:51	-	1.10 y
15	Unk 1,2,3,4,6,7,8-HpCDF	50.00	1.75e+07	1.04 y	42:21	-	1.47 y
16	Unk 1,2,3,4,7,8,9-HpCDF	50.00	1.32e+07	1.05 y	45:12	-	1.42 y
17	Unk OCDF	100.00	2.23e+07	0.91 y	50:13	-	0.819 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	3.69e+07	0.67 y	27:26	-	1.00 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	3.77e+07	1.70 y	33:16	-	1.03 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	2.90e+07	1.27 y	38:38	-	1.20 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	2.22e+07	1.27 y	38:48	-	0.919 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.06e+07	1.06 y	44:15	-	0.852 y
23	IS 13C-OCDD	200.00	2.97e+07	1.00 y	49:49	-	0.615 y
24	IS 13C-2,3,7,8-TCDF	100.00	6.78e+07	0.86 y	26:40	-	0.960 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	5.66e+07	1.64 y	31:31	-	0.801 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	5.55e+07	1.65 y	32:51	-	0.785 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	4.35e+07	0.44 y	37:15	-	1.80 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	5.50e+07	0.44 y	37:27	-	2.28 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	4.49e+07	0.44 y	38:23	-	1.86 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	4.72e+07	0.44 y	39:49	-	1.96 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.39e+07	0.48 y	42:21	-	0.989 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	1.86e+07	0.47 y	45:10	-	0.768 y
33	IS 13C-OCDF	200.00	5.45e+07	0.91 y	50:12	-	1.13 y
34	C/Up 37Cl-2,3,7,8-TCDD	10.00	2.51e+06		27:27	-	0.682 y
35	RS 13C-1,2,3,4-TCDD	100.00	3.68e+07	0.68 y	26:50	3.68e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	7.07e+07	0.86 y	25:35	7.07e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.42e+07	1.26 y	39:15	2.42e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.14 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.00 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.42 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.23 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.08 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.889 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.889 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	0.991 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.45 y

Analyst: J

Date: 3/8/11

Run #3 Filename 07MAR11M
Client ID: ST030711M4

S: 4

Acquired: 7-MAR-11 14:44:29 Cal: PCDDFAL3-3-7-11

Analyte:

FAL ID: 1613 Cs4 100511K

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	40.00	1.84e+07	0.80 y	27:27	-	1.14 y
2	Unk 1,2,3,7,8-PeCDD	200.00	8.36e+07	1.43 y	33:16	-	1.06 y
3	Unk 1,2,3,4,7,8-HxCDD	200.00	9.27e+07	1.28 y	38:40	-	1.51 y
4	Unk 1,2,3,6,7,8-HxCDD	200.00	7.25e+07	1.27 y	38:49	-	1.47 y
5	Unk 1,2,3,7,8,9-HxCDD	200.00	8.35e+07	1.27 y	39:16	-	1.51 y
6	Unk 1,2,3,4,6,7,8-HpCDD	200.00	5.64e+07	0.89 y	44:15	-	1.28 y
7	Unk OCDD	400.00	1.00e+08	0.91 y	49:51	-	1.47 y
8	Unk 2,3,7,8-TCDF	40.00	3.24e+07	0.67 y	26:40	-	1.13 y
9	Unk 1,2,3,7,8-PeCDF	200.00	1.15e+08	1.67 y	31:33	-	0.943 y
10	Unk 2,3,4,7,8-PeCDF	200.00	1.10e+08	1.63 y	32:52	-	0.948 y
11	Unk 1,2,3,4,7,8-HxCDF	200.00	9.76e+07	1.20 y	37:15	-	1.06 y
12	Unk 1,2,3,6,7,8-HxCDF	200.00	1.09e+08	1.20 y	37:28	-	0.943 y
13	Unk 2,3,4,6,7,8-HxCDF	200.00	1.01e+08	1.20 y	38:24	-	1.07 y
14	Unk 1,2,3,7,8,9-HxCDF	200.00	1.22e+08	1.22 y	39:50	-	1.16 y
15	Unk 1,2,3,4,6,7,8-HpCDF	200.00	8.08e+07	1.03 y	42:21	-	1.55 y
16	Unk 1,2,3,4,7,8,9-HpCDF	200.00	6.31e+07	1.04 y	45:11	-	1.53 y
17	Unk OCDF	400.00	1.18e+08	0.93 y	50:13	-	0.902 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	4.05e+07	0.70 y	27:25	-	1.07 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	3.94e+07	1.69 y	33:16	-	1.04 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	3.06e+07	1.27 y	38:37	-	1.22 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	2.47e+07	1.27 y	38:48	-	0.983 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.20e+07	1.07 y	44:14	-	0.877 y
23	IS 13C-OCDD	200.00	3.41e+07	1.00 y	49:49	-	0.679 y
24	IS 13C-2,3,7,8-TCDF	100.00	7.18e+07	0.87 y	26:39	-	1.02 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	6.11e+07	1.64 y	31:31	-	0.872 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	5.79e+07	1.63 y	32:51	-	0.826 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	4.62e+07	0.44 y	37:14	-	1.84 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	5.78e+07	0.44 y	37:26	-	2.31 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	4.75e+07	0.44 y	38:23	-	1.89 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	5.27e+07	0.44 y	39:49	-	2.10 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.60e+07	0.47 y	42:20	-	1.04 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.07e+07	0.47 y	45:09	-	0.823 y
33	IS 13C-OCDF	200.00	6.54e+07	0.93 y	50:12	-	1.30 y
34	C/Up 37Cl-2,3,7,8-TCDD	40.00	1.14e+07		27:27	-	0.750 y
35	RS 13C-1,2,3,4-TCDD	100.00	3.80e+07	0.72 y	26:50	3.80e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	7.01e+07	0.85 y	25:34	7.01e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.51e+07	1.26 y	39:14	2.51e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.14 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.06 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.50 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.28 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.13 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.945 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.945 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	1.05 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.54 y

Analyst: J

Date: 3/8/11

PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/7/11

Instrument ID: FAL3 GC Column ID: DB5

CS0 Data Filename: 07MAR11M S1 CS4 Data Filename: 07MAR11M S5

CS1 Data Filename: 07MAR11M S3 CS4 Data Filename: 07MAR11M S6

CS2 Data Filename: 07MAR11M S4 CS5 Data Filename: 07MAR11M S7

Labeled Compounds	RELATIVE RESPONSE (RR)						MEAN	Cv
	CS1	CS2	CS3	CS4	CS5	CS6	RR	(%RSD)
13C-2,3,7,8-TCDD	1.00	1.09	1.07	1.00	1.01	1.01	1.03	3.69
13C-1,2,3,7,8-PeCDD	1.03	1.19	1.04	0.94	0.93	0.94	1.01	9.97
13C-1,2,3,4,7,8-HxCDD	1.20	1.13	1.22	1.18	1.22	1.19	1.19	2.78
13C-1,2,3,6,7,8-HxCDD	0.92	0.89	0.98	0.95	0.92	0.95	0.94	3.41
13C-1,2,3,4,6,7,8-HpCDD	0.85	0.84	0.88	0.81	0.80	0.79	0.83	4.23
13C-OCDD	0.62	0.67	0.68	0.58	0.55	0.55	0.61	9.50
13C-2,3,7,8-TCDF	0.96	1.03	1.02	0.96	0.96	0.94	0.98	3.84
13C-1,2,3,7,8-PeCDF	0.80	0.97	0.87	0.79	0.77	0.78	0.83	9.66
13C-2,3,4,7,8-PeCDF	0.79	0.95	0.83	0.75	0.77	0.74	0.80	9.70
13C-1,2,3,4,7,8-HxCDF	1.80	1.56	1.84	1.92	1.94	1.97	1.84	8.15
13C-1,2,3,6,7,8-HxCDF	2.28	2.03	2.31	2.33	2.38	2.41	2.29	5.90
13C-2,3,4,6,7,8-HxCDF	1.86	1.66	1.89	1.90	1.92	1.94	1.86	5.48
13C-1,2,3,7,8,9-HxCDF	1.96	1.94	2.10	1.96	1.96	1.98	1.98	3.04
13C-1,2,3,4,6,7,8-HpCDF	0.99	0.95	1.04	0.97	0.98	0.99	0.99	2.88
13C-1,2,3,4,7,8,9-HpCDF	0.77	0.80	0.82	0.74	0.73	0.73	0.77	5.17
13C-OCDF	1.13	1.30	1.30	1.12	1.06	1.07	1.17	9.46
CLEANUP STANDARD								
37Cl-2,3,7,8-TCDD	0.68	0.81	0.75	0.68	0.74	0.71	0.73	6.57

Analyst: 6Date: 3/8/11

PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

CS0 Data Filename: 07MAR11M S1 CS3 Data Filename: 07MAR11M S5

CS1 Data Filename: 07MAR11M S3 CS4 Data Filename: 07MAR11M S6

CS2 Data Filename: 07MAR11M S4 CS5 Data Filename: 07MAR11M S7

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	0.83	0.81	0.80	0.83	0.79	0.86	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.44	1.44	1.43	1.37	1.41	1.37	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.27	1.28	1.27	1.30	1.25	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.27	1.27	1.27	1.27	1.31	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.27	1.27	1.26	1.26	1.25	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.90	0.90	0.89	0.89	0.89	0.90	0.88-1.20
OCDD	M+2/M+4	0.94	0.94	0.91	0.95	0.94	1.00	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.67	0.67	0.67	0.66	0.69	0.68	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.66	1.65	1.67	1.69	1.64	1.61	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.65	1.64	1.63	1.64	1.64	1.61	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.20	1.20	1.20	1.19	1.23	1.22	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.22	1.20	1.20	1.21	1.22	1.18	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.20	1.19	1.20	1.19	1.22	1.20	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.21	1.21	1.22	1.21	1.19	1.18	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	1.04	1.03	1.04	1.02	1.02	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	1.04	1.04	1.02	1.03	1.03	0.88-1.20
OCDF	M+2/M+4	0.91	0.92	0.93	0.94	0.91	0.90	0.76-1.02

Analyst: 8Date: 3/8/11

FORM 3D
 PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/7/11

Instrument ID: FAL3 GC Column ID: DB5

CS0 Data Filename: 07MAR11M S1 CS3 Data Filename: 07MAR11M S5

CS1 Data Filename: 07MAR11M S3 CS4 Data Filename: 07MAR11M S6

CS2 Data Filename: 07MAR11M S4 CS5 Data Filename: 07MAR11M S7

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	0.67	0.70	0.70	0.69	0.69	0.69	0.65-0.89
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.70	1.68	1.69	1.67	1.72	1.72	1.32-1.78
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.27	1.27	1.28	1.29	1.29	1.05-1.43
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.26	1.27	1.28	1.29	1.29	1.05-1.43
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	1.07	1.07	1.07	1.06	1.03	0.88-1.20
13C-OCDD	M+2/M+4	1.00	1.01	1.00	0.98	1.01	1.00	0.76-1.02
13C-2,3,7,8-TCDF	M/M+2	0.86	0.87	0.87	0.87	0.88	0.87	0.65-0.89
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.64	1.66	1.64	1.63	1.63	1.66	1.32-1.78
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.65	1.63	1.63	1.62	1.65	1.64	1.32-1.78
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.44	0.44	0.44	0.44	0.45	0.45	0.43-0.59
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.44	0.44	0.44	0.45	0.44	0.45	0.43-0.59
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.44	0.44	0.44	0.44	0.45	0.45	0.43-0.59
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.44	0.44	0.44	0.44	0.45	0.44	0.43-0.59
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.48	0.47	0.47	0.48	0.47	0.46	0.37-0.51
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.47	0.47	0.47	0.46	0.47	0.46	0.37-0.51
13C-OCDF	M+2/M+4	0.91	0.92	0.93	0.92	0.92	0.92	0.76-1.02

Analyst: Date: 3/8/11

USEPA - ITD

FORM 4B

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 07MAR11M Sam:1

Analysis Date: 7-MAR-11 11:58:32

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	0.67	0.65-0.89	y	97.6	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.70	1.32-1.78	y	101	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	101	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	98.3	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	103	72.0 - 138
13C-OCDD	M+2/M+4	1.00	0.76-1.02	y	203	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.86	0.65-0.89	y	98.0	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.64	1.32-1.78	y	96.5	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.65	1.32-1.78	y	97.7	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.44	0.43-0.59	y	97.8	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.44	0.43-0.59	y	99.5	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.44	0.43-0.59	y	99.9	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.44	0.43-0.59	y	98.7	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.48	0.37-0.51	y	100	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.47	0.37-0.51	y	100	77.0 - 129
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	194	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.35	7.80 - 12.8

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

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

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

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

Analyst: JDate: 3/8/11

USEPA - ITD

FORM 6A

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 3/7/11

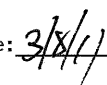
Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 7-MAR-11 11:58:32 CS3 or VER Data Filename: 07MAR11M Sam:1

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.989-1.052
13C-2,3,7,8-TCDD		1.022	0.976-1.043
13C-2,3,7,8-TCDF		0.994	0.923-1.103
13C-1,2,3,7,8-PeCDD		1.239	1.000-1.567
13C-1,2,3,7,8-PeCDF		1.174	0.923-1.203
13C-2,3,4,7,8-PeCDF		1.224	0.923-1.303

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

Analyst: Date: 

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 7-MAR-11 11:58:32 CS3 or VER Data Filename: 07MAR11M Sam:1

NATIVE ANALYTES	RETENTION TIME		RRT	RRT
	REFERENCE			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		1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF		1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF		1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF		1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD		1.000	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		1.001	0.999-1.001
OCDD	13C-OCDD		1.001	0.999-1.001
OCDF	13C-OCDF		1.000	0.999-1.001
LABELED COMPOUNDS				
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD		0.984	0.977-1.000
13C-1,2,3,6,7,8-HxCDD			0.988	0.981-1.003
13C-1,2,3,4,7,8-HxCDF			0.949	0.944-0.970
13C-1,2,3,6,7,8-HxCDF			0.954	0.949-0.975
13C-2,3,4,6,7,8-HxCDF			0.978	0.959-1.021
13C-1,2,3,7,8,9-HxCDF			1.014	0.977-1.047
13C-1,2,3,4,6,7,8-HpCDD			1.127	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: 8Date: 3/8/11

Frontier Analytical Laboratory - Acquisition Log

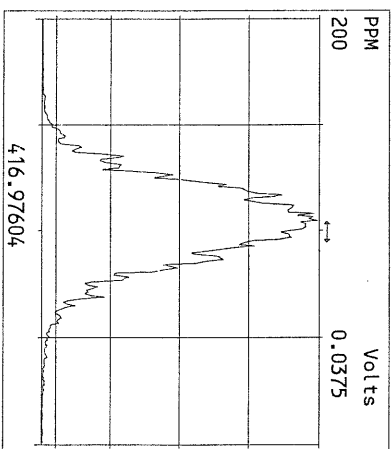
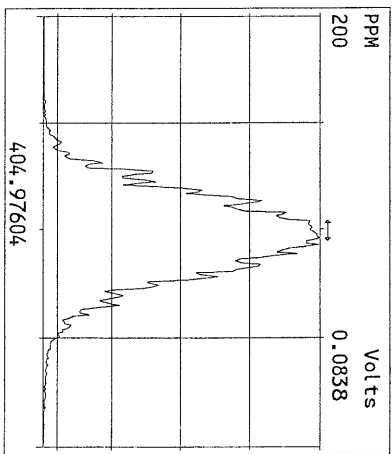
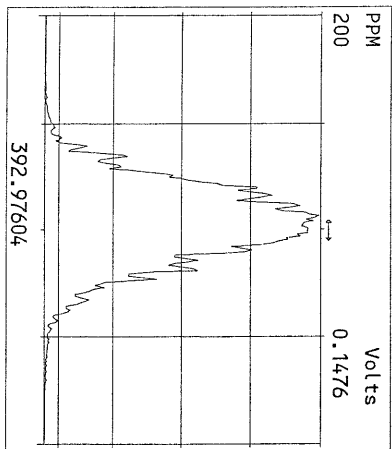
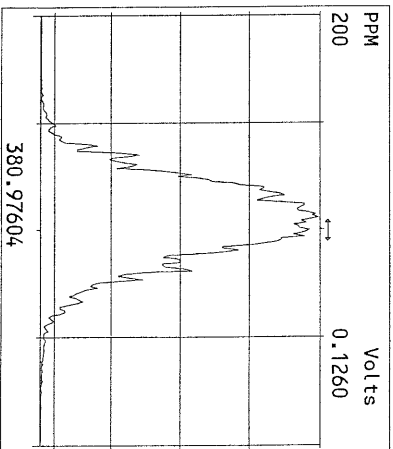
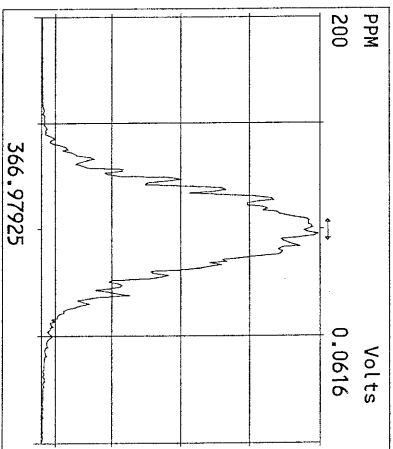
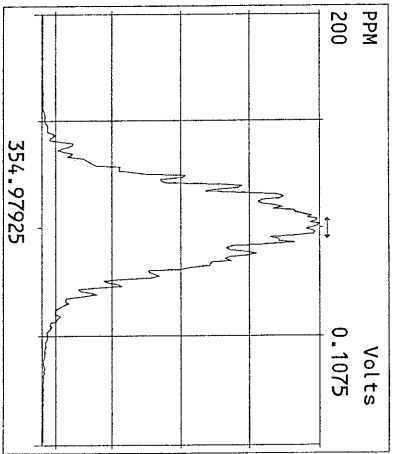
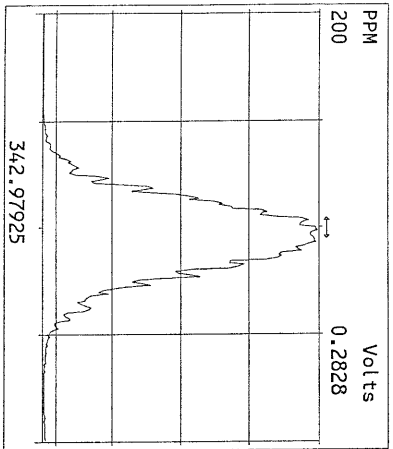
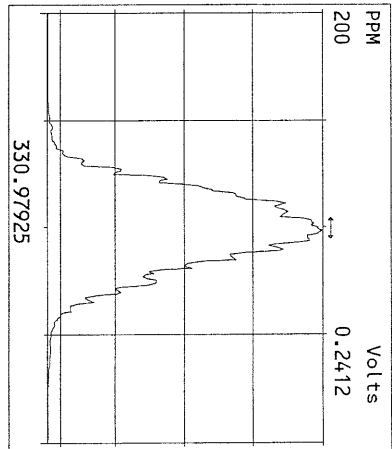
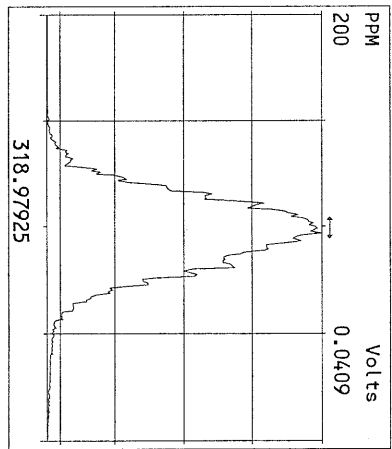
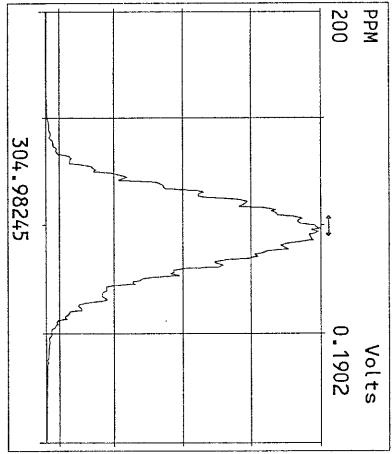
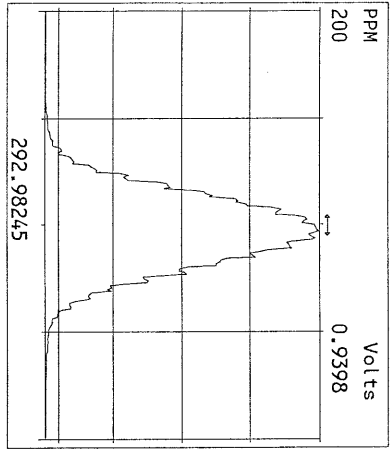
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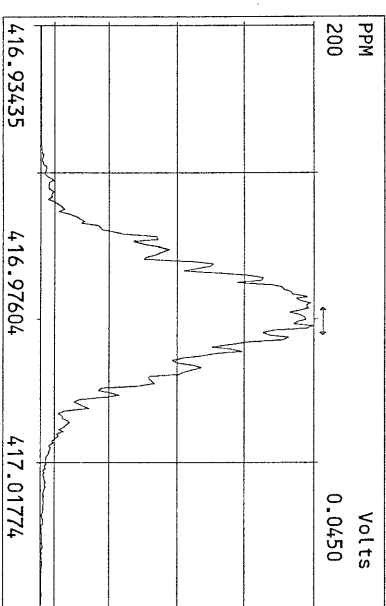
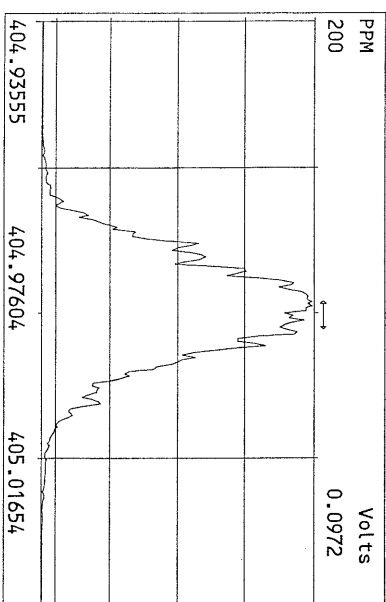
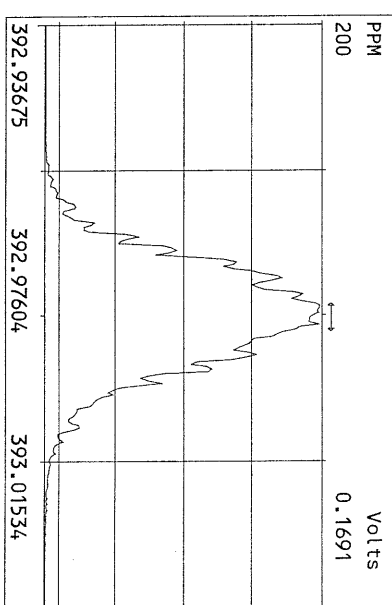
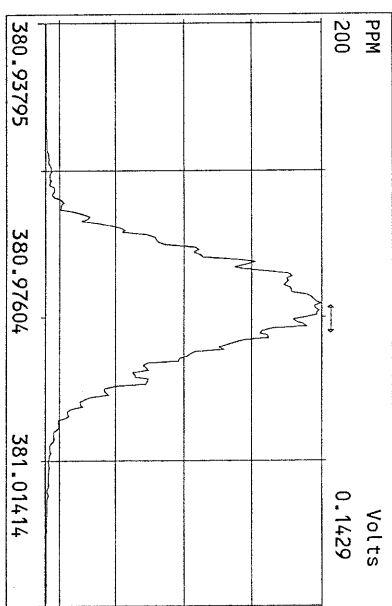
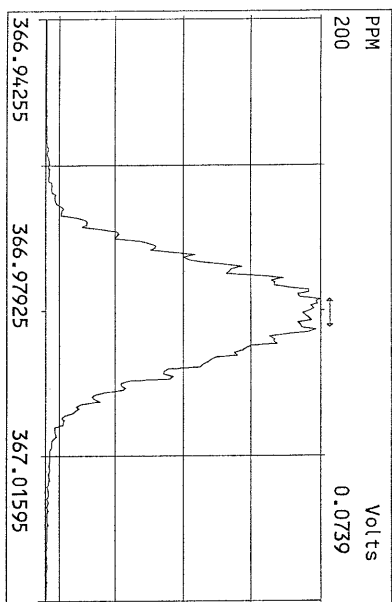
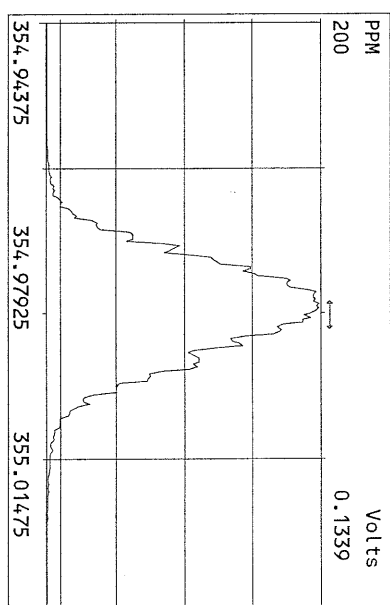
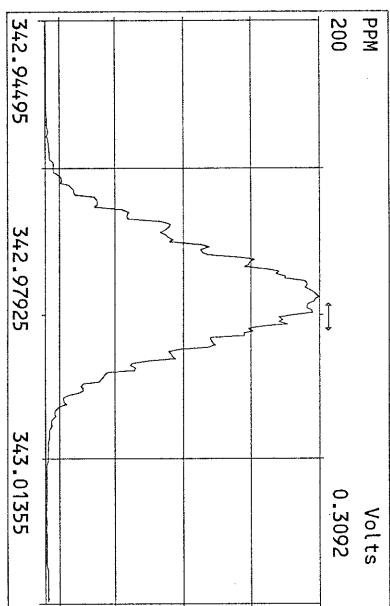
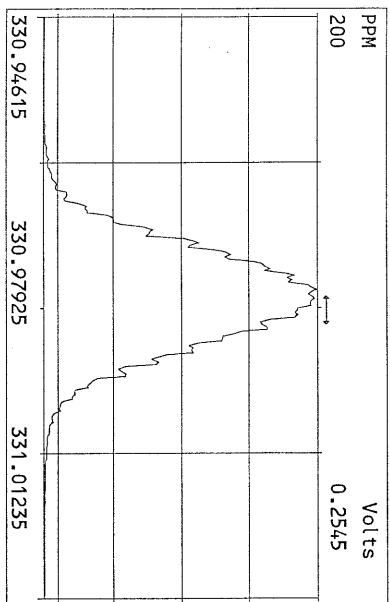
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07MAR11M 15	6594-004-0001-SA	MW-54-110210	8-MAR-11 00:52:57	ST030711M6	ST030711M7	BS
07MAR11M 16	6594-005-0001-SA	PA-17-110211	8-MAR-11 01:48:18	ST030711M6	ST030711M7	BS
07MAR11M 17	6594-006-0001-SA	MW-53-110211	8-MAR-11 02:43:37	ST030711M6	ST030711M7	BS
07MAR11M 18	6594-007-0001-SA	MW-58-110211	8-MAR-11 03:39:00	ST030711M6	ST030711M7	BS
07MAR11M 19	6594-008-0001-SA	MW-51-110211	8-MAR-11 04:34:19	ST030711M6	ST030711M7	BS
07MAR11M 20	6594-009-0001-SA	MW-61-110211	8-MAR-11 05:29:37	ST030711M6	ST030711M7	BS
07MAR11M 21	SB030711M1	Solvent Blank	8-MAR-11 06:25:00	ST030711M6	ST030711M7	BS
07MAR11M 22	ST030711M7	1613 CS3 100511J	8-MAR-11 07:20:23	ST030711M6	ST030711M7	BS

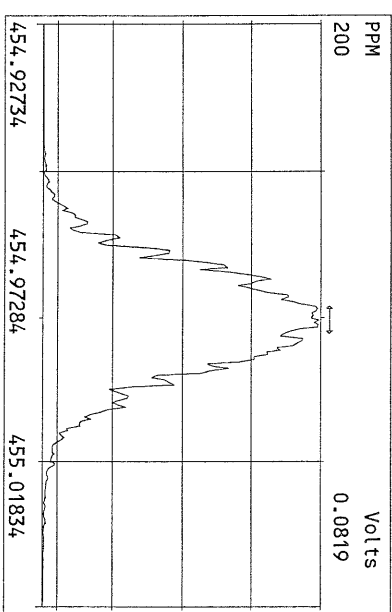
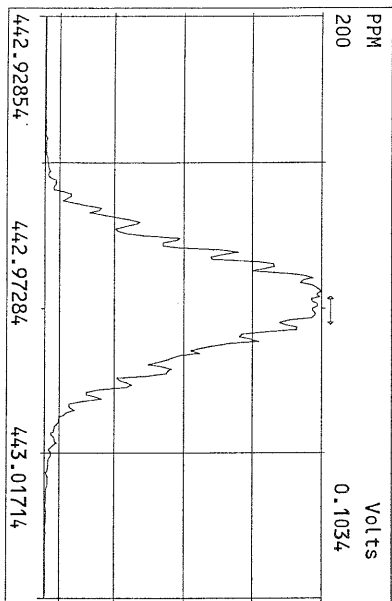
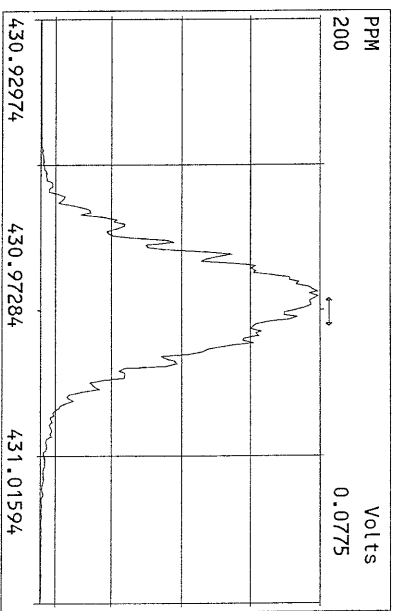
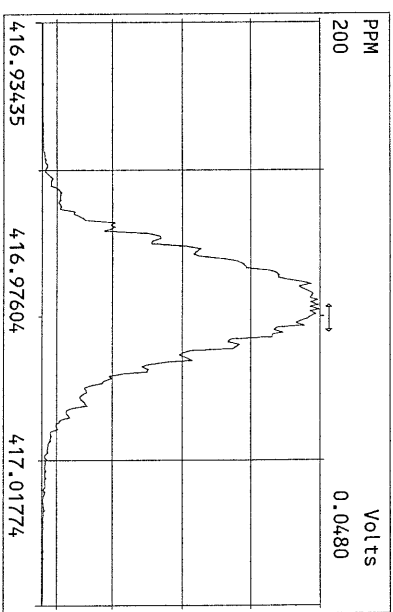
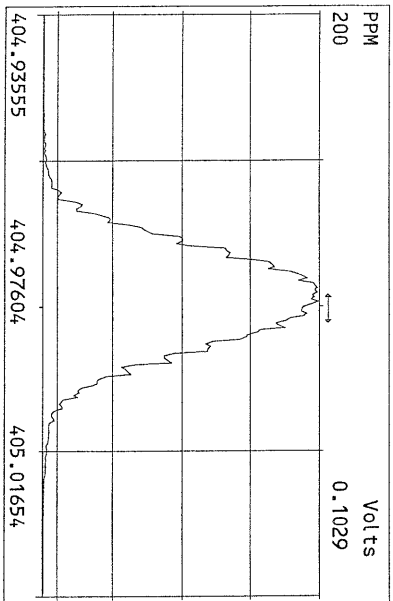
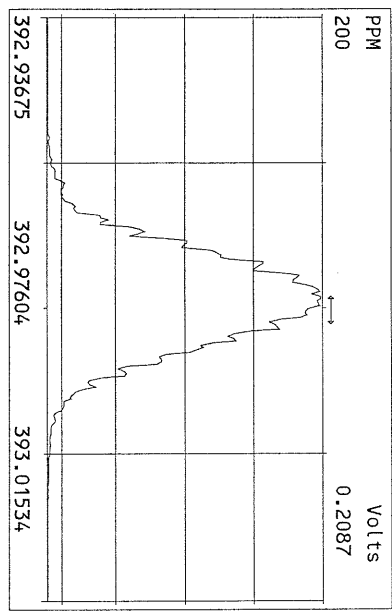
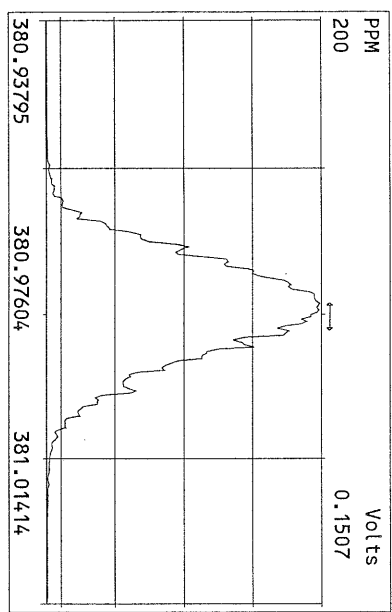
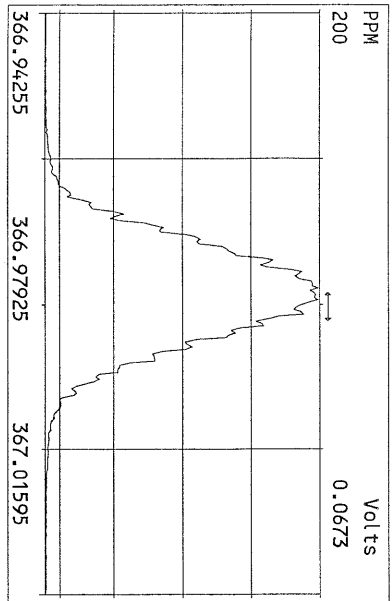
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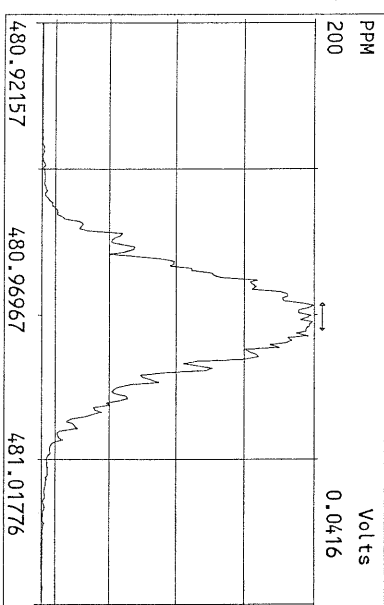
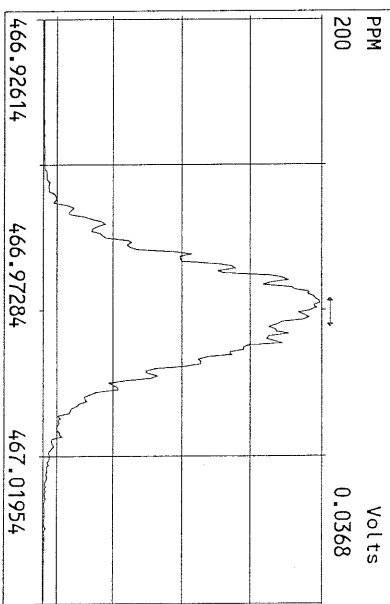
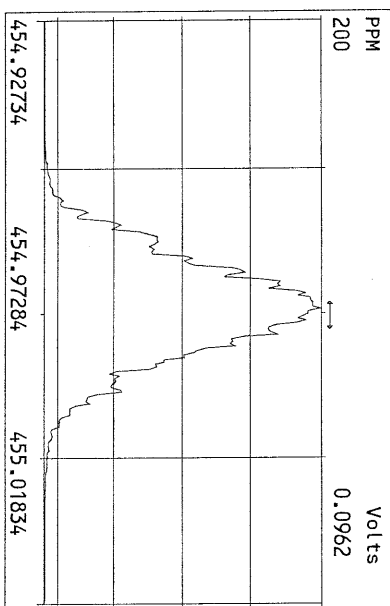
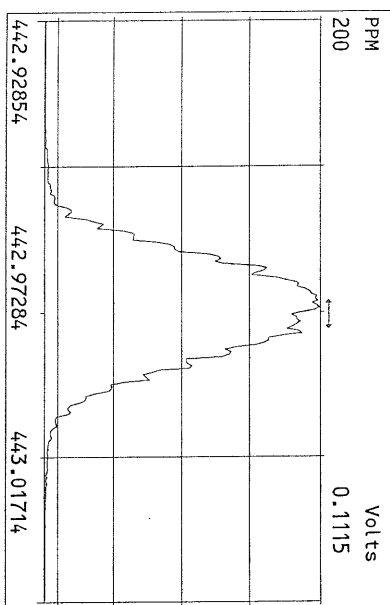
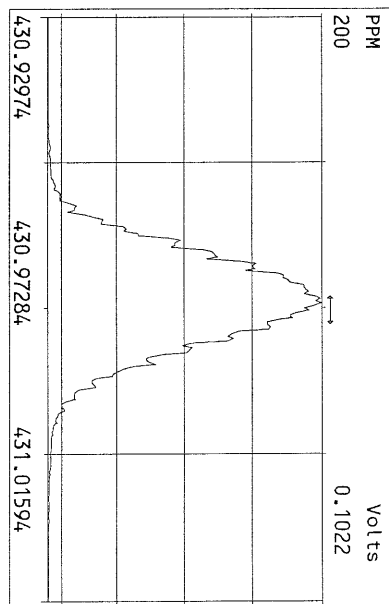
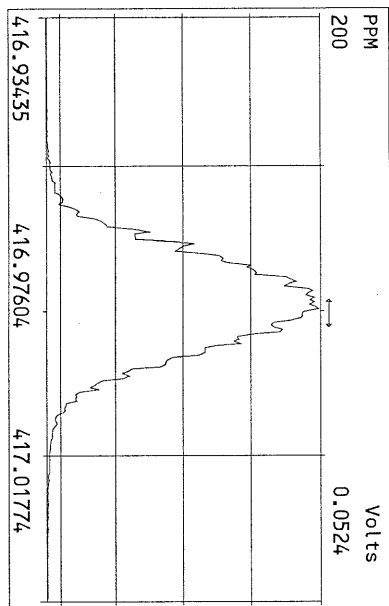
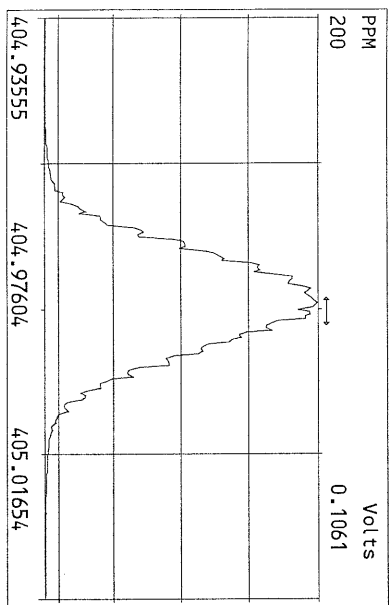
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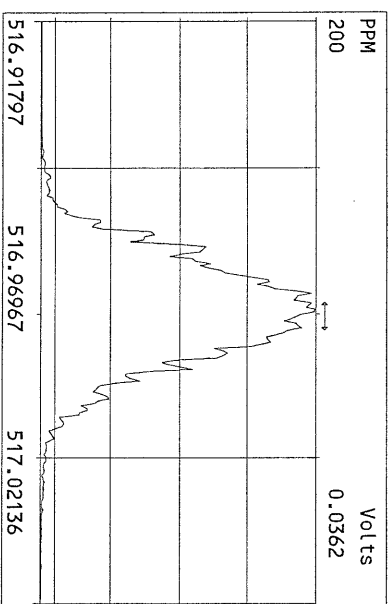
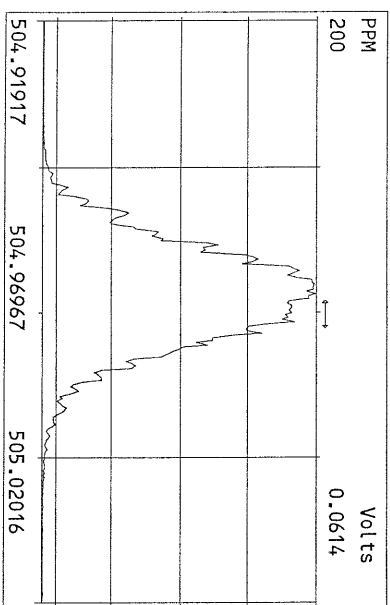
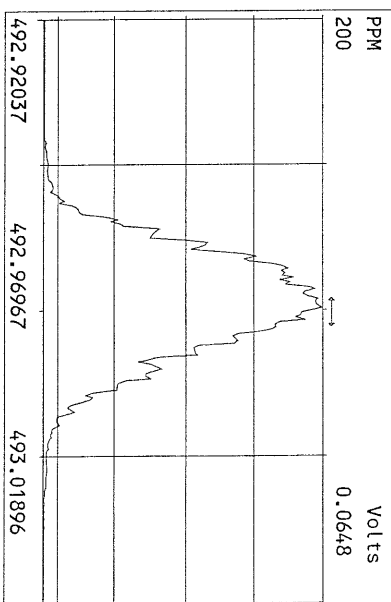
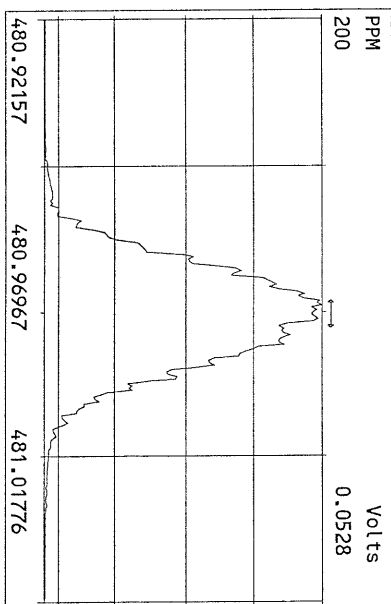
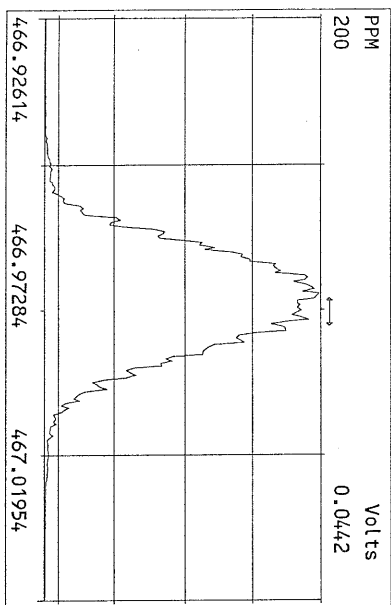
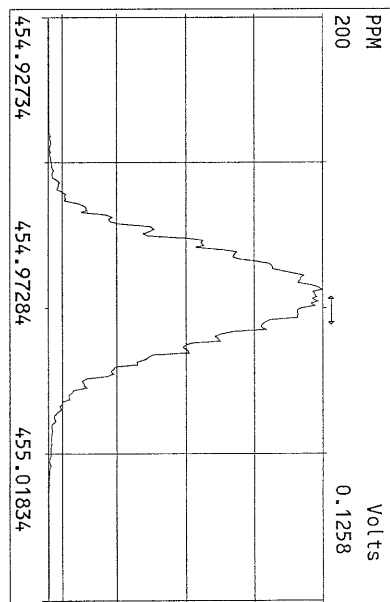
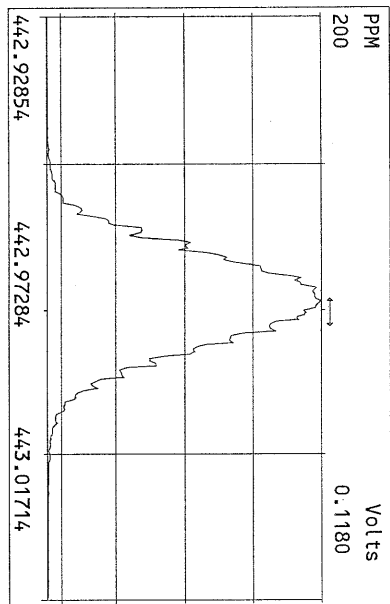
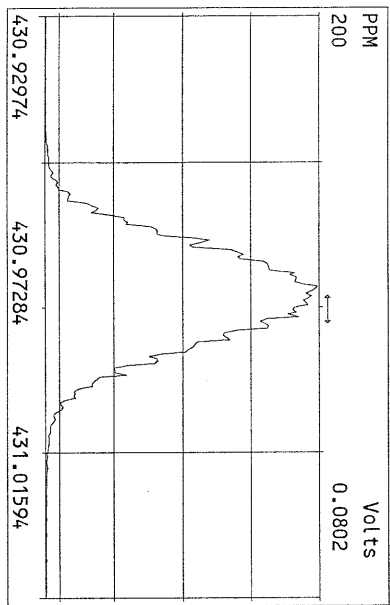
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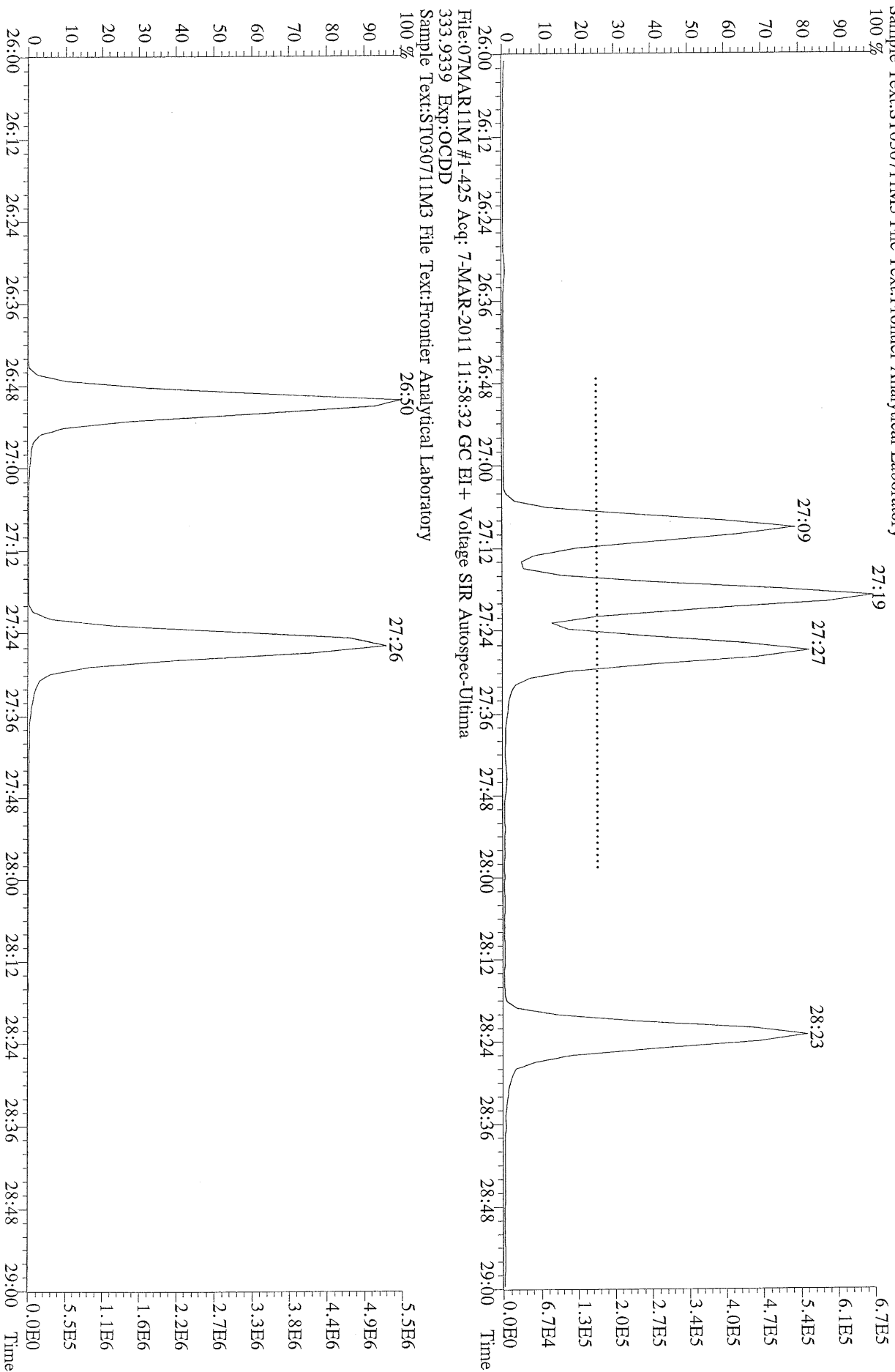








File:07MAR11M #1-425 Acq: 7-MAR-2011 11:58:32 GC EI+ Voltage SIR Autospec-Ultima
321.8936 Exp:OCDD
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory
100 %



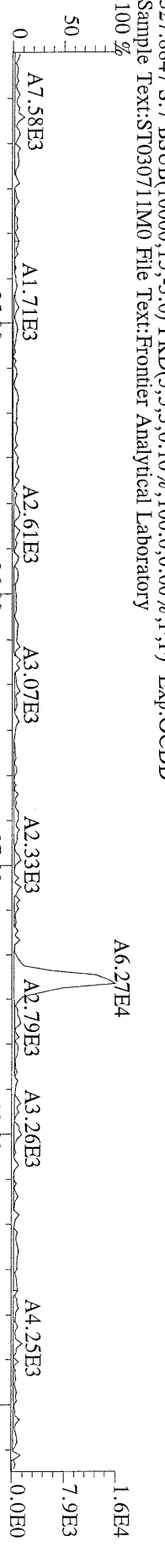
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 319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



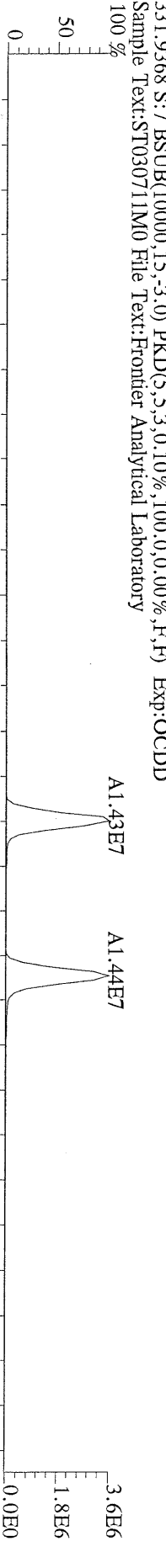
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 321.8936 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
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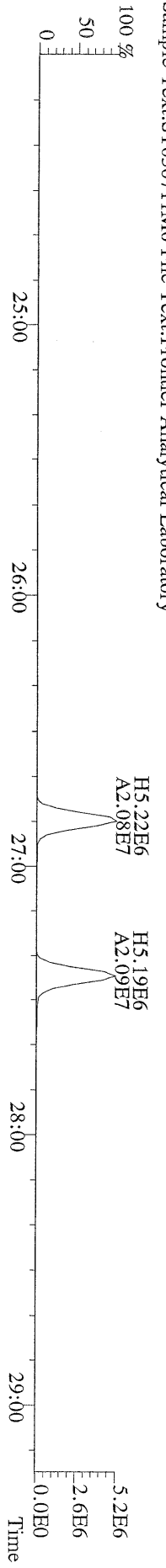
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 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



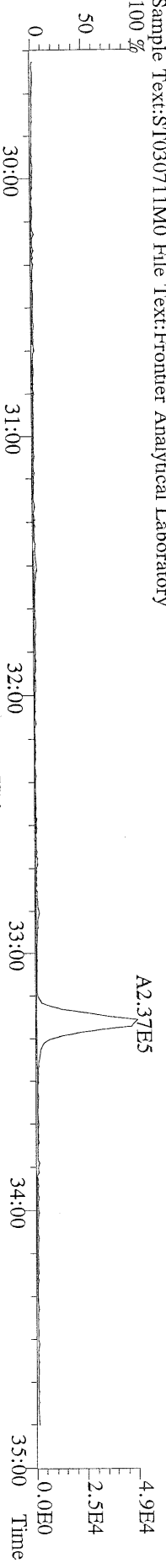
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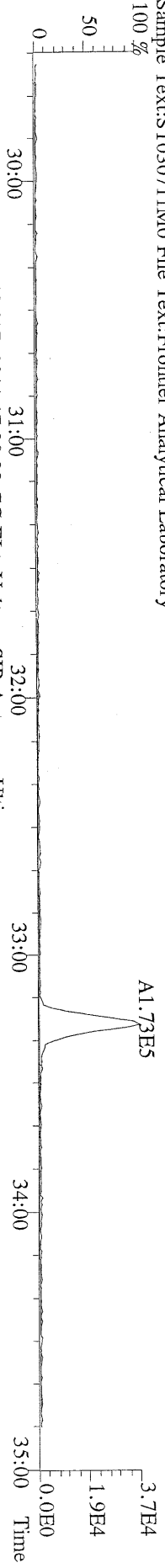
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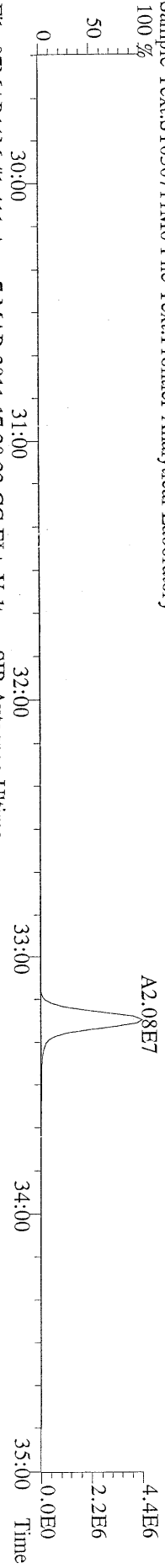
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355.8546 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory
100 %



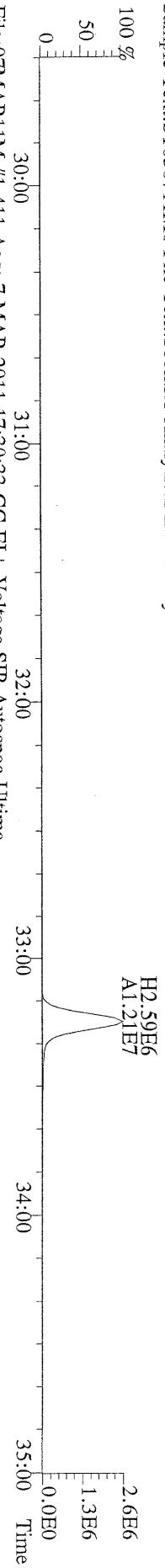
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357.8517 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:OCDD
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100 %



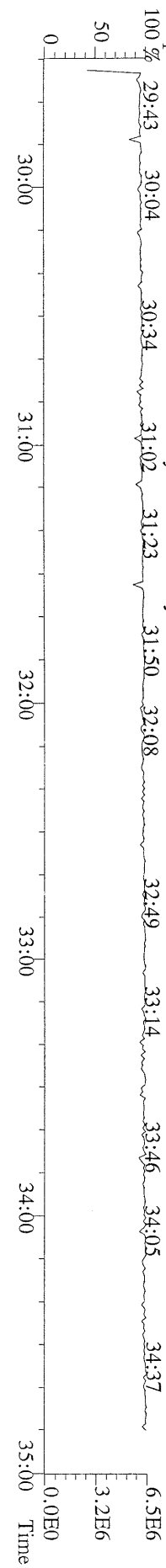
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367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory
100 %



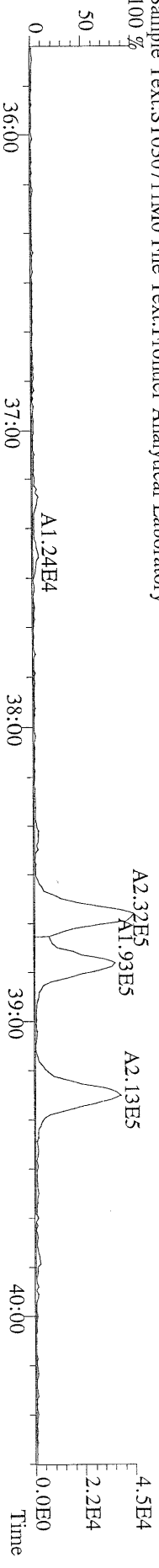
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369.8919 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



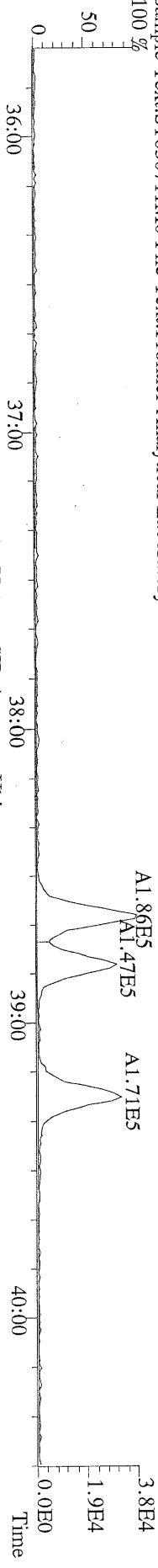
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366.9792 S:7 F:2 Exp:OCDD
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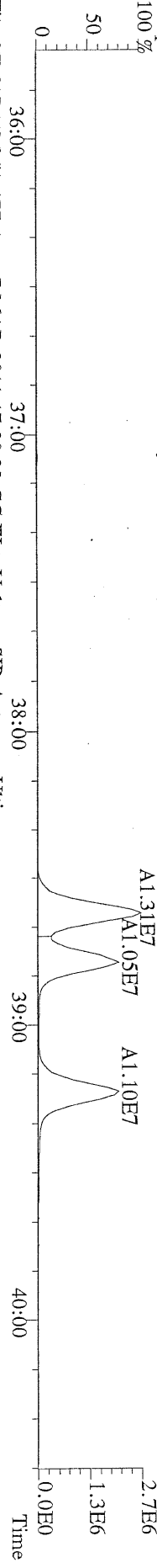
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389.8156 S:7 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
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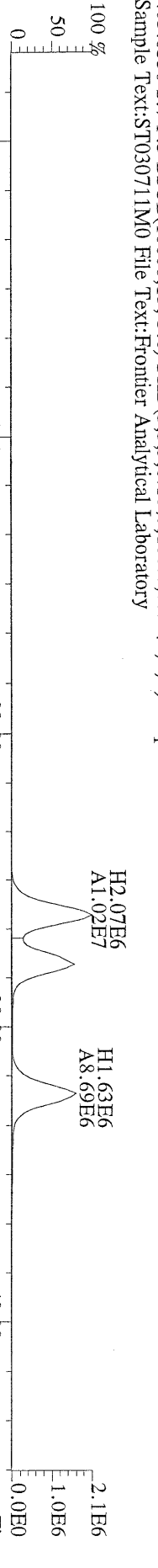
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391.8127 S:7 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
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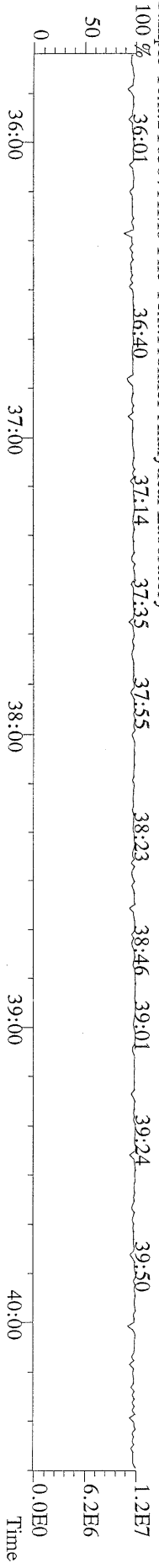
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401.8559 S:7 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
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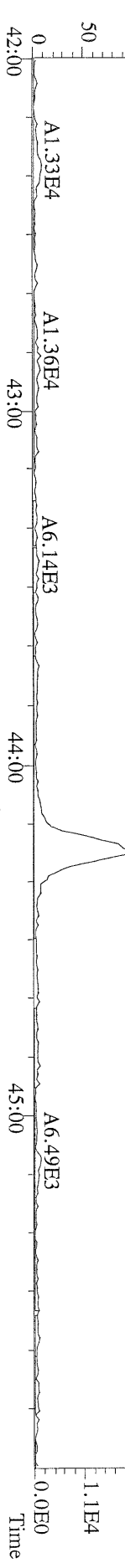
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403.8530 S:7 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-477 Acq: 7-MAR-2011 17:30:33 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:7 F:3 Exp:OCDD
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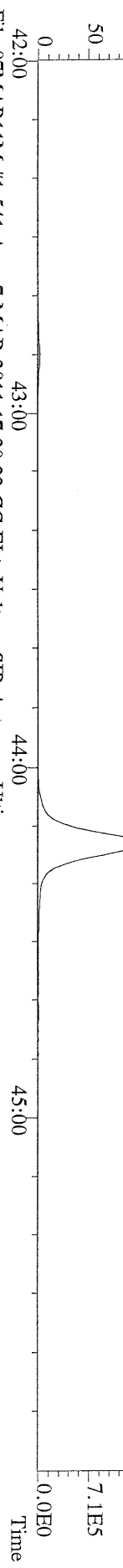
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 423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
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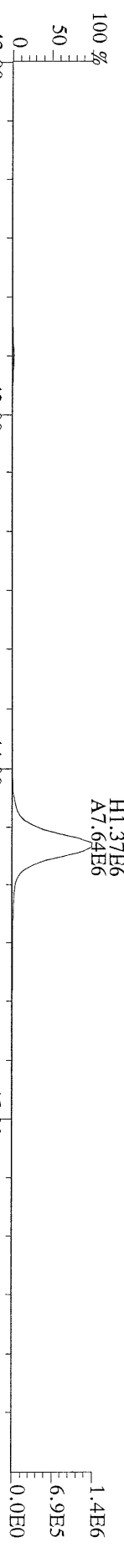
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 425.7737 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
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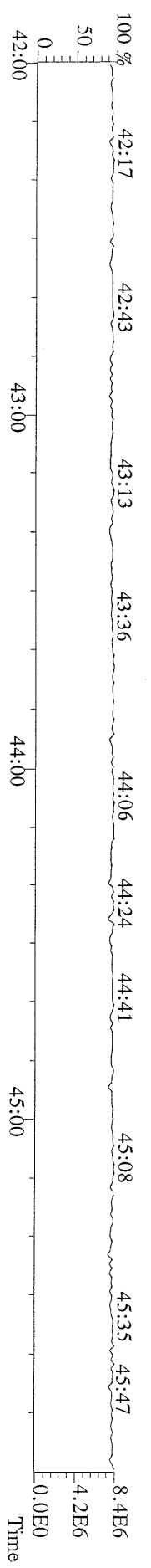
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 435.8169 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
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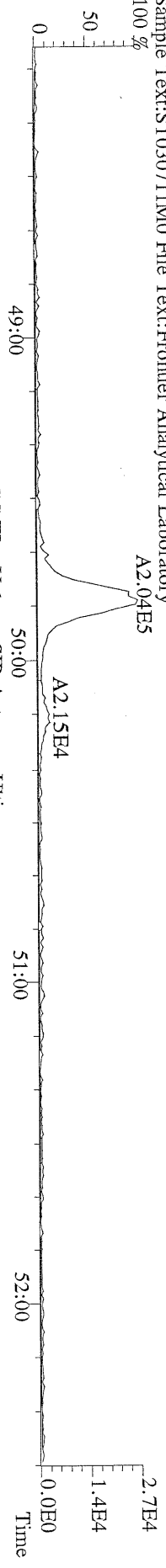
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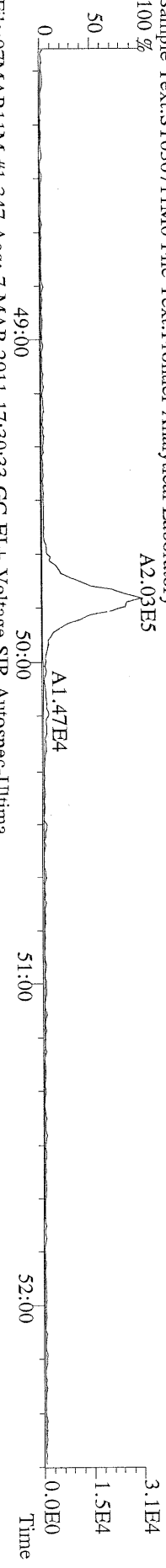
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 430.9728 S:7 F:4 Exp:OCDD
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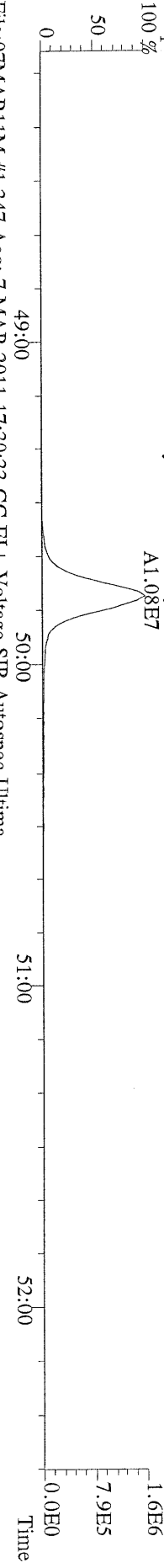
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 457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
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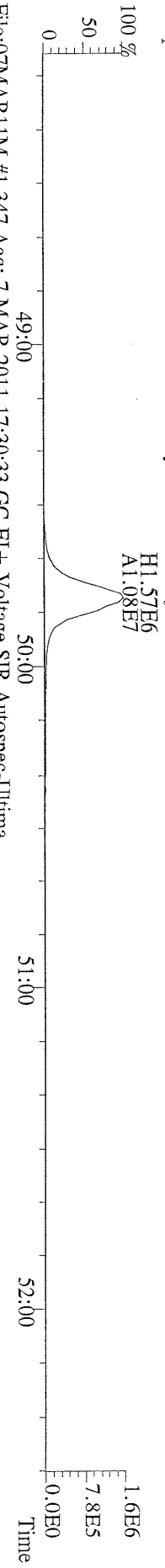
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 459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
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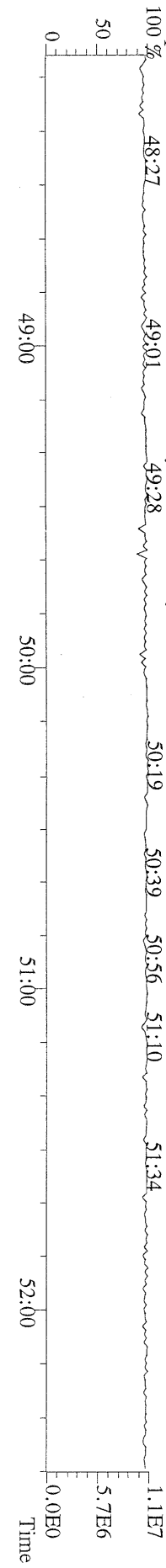
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 469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
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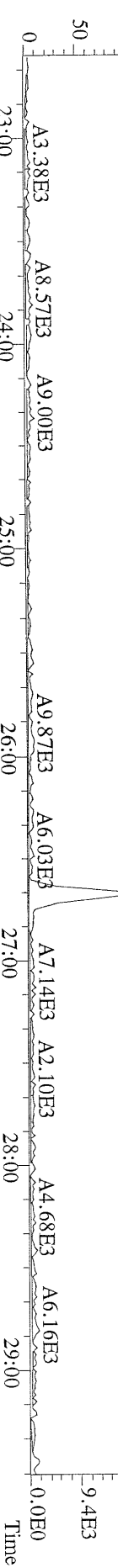
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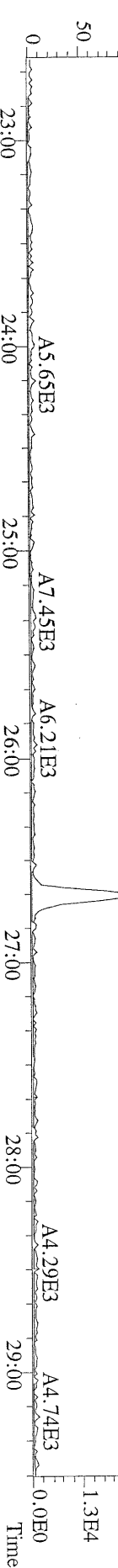
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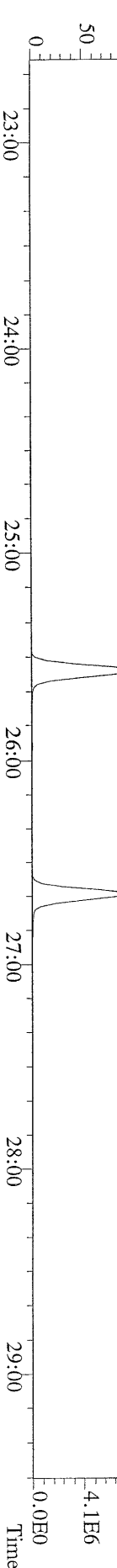
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 303.9016 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
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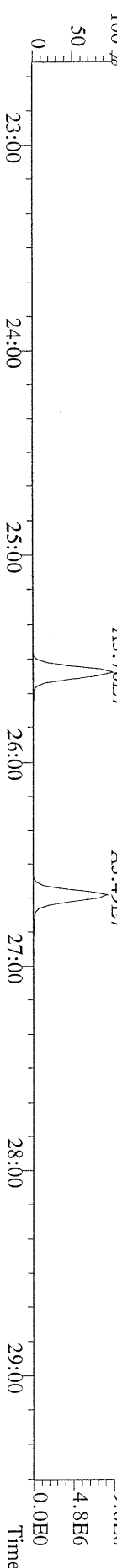
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 305.8987 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



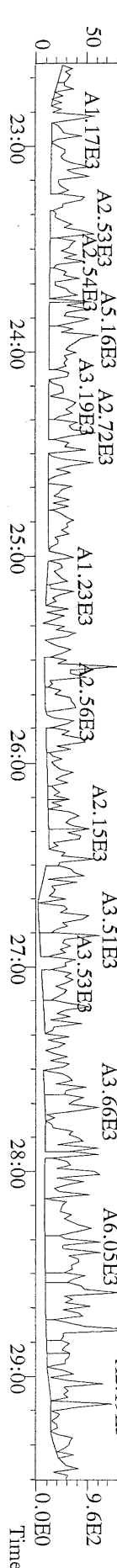
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 315.9419 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
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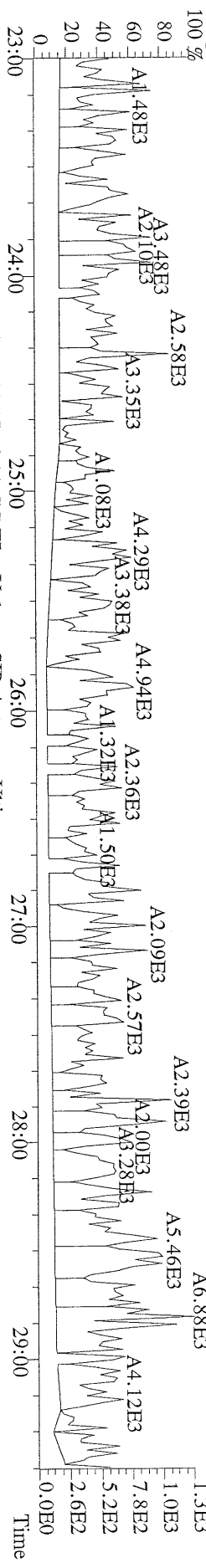
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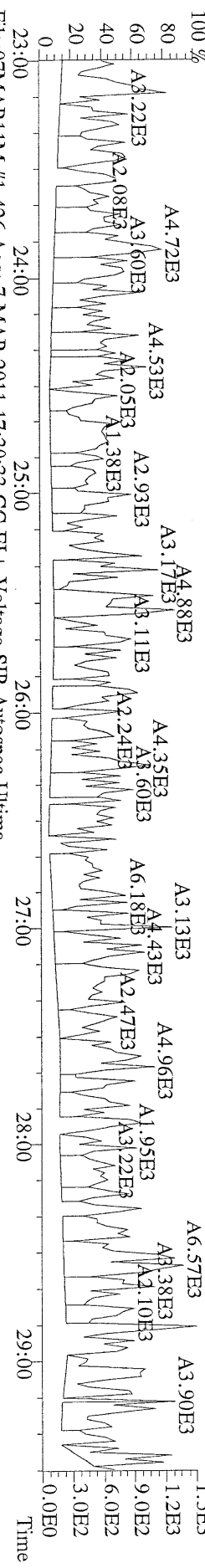
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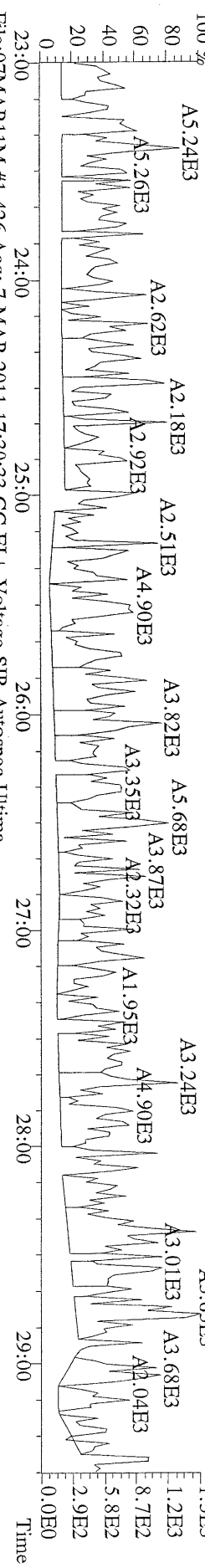
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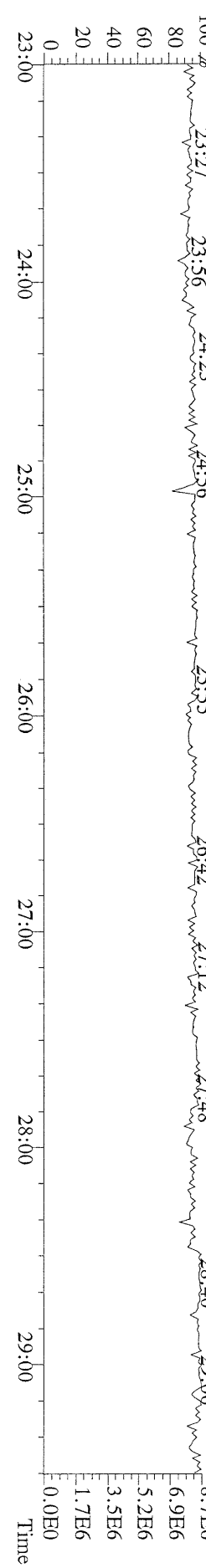
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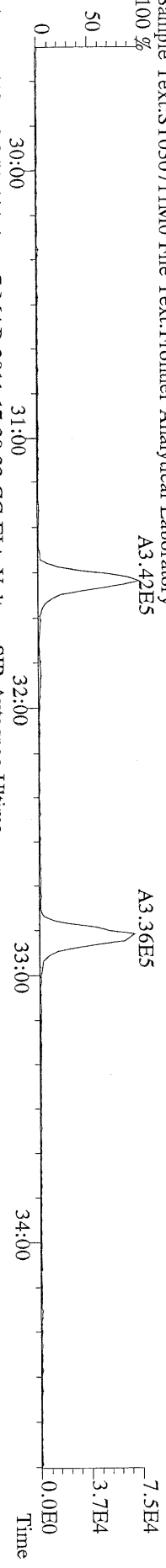
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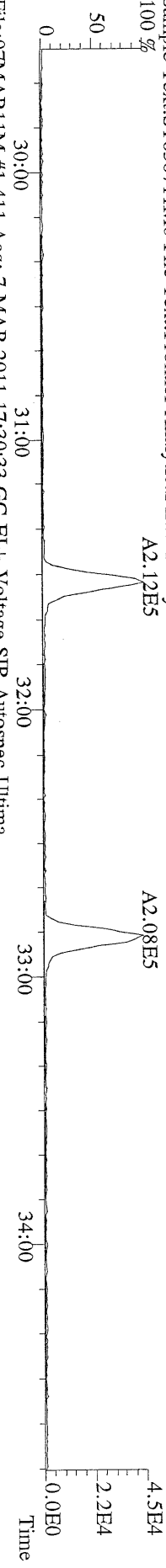
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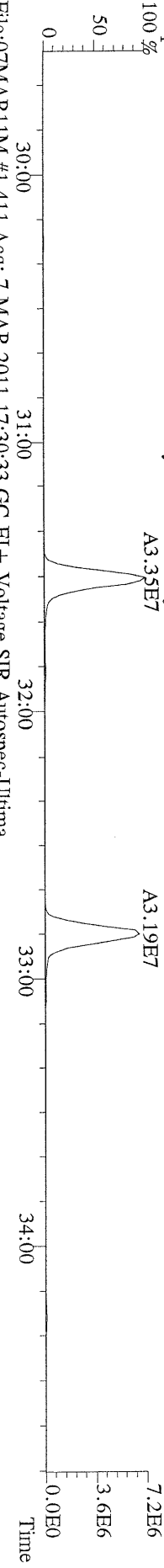
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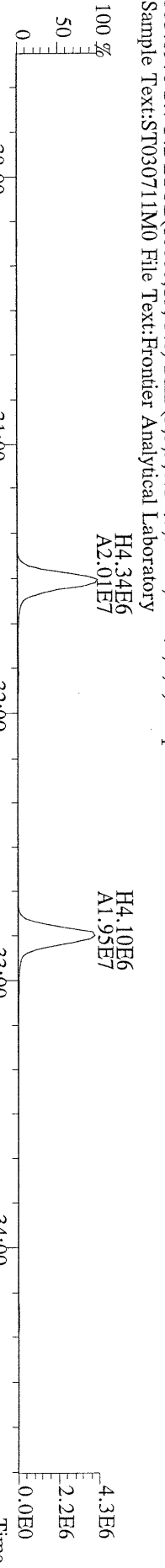
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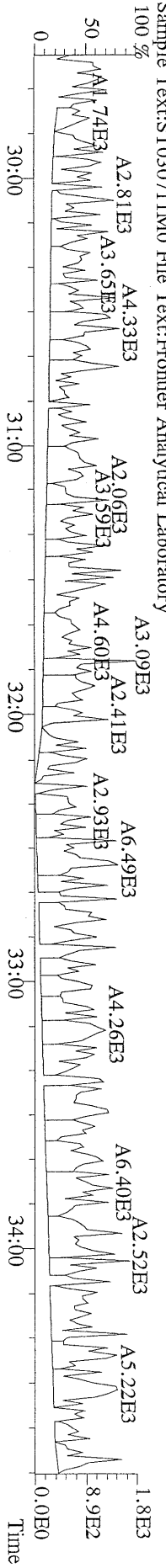
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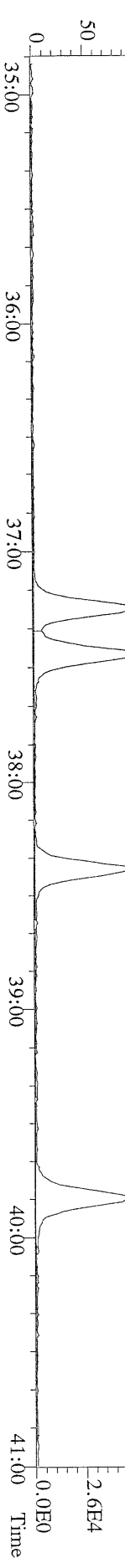
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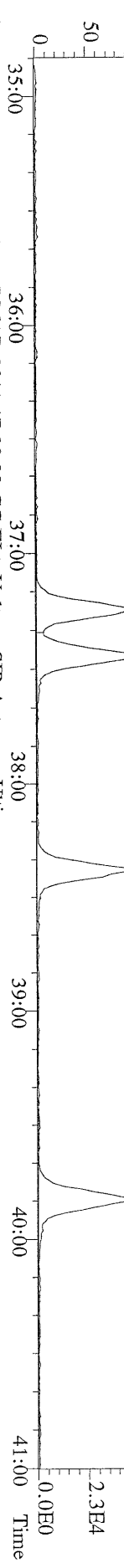
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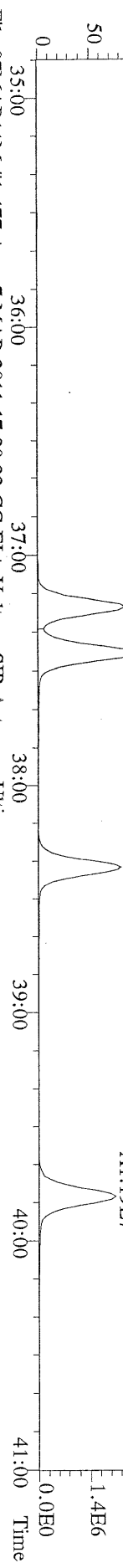
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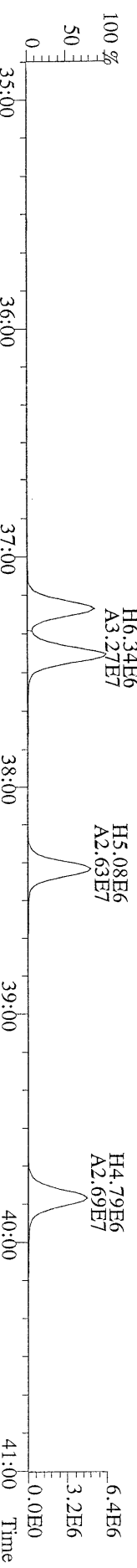
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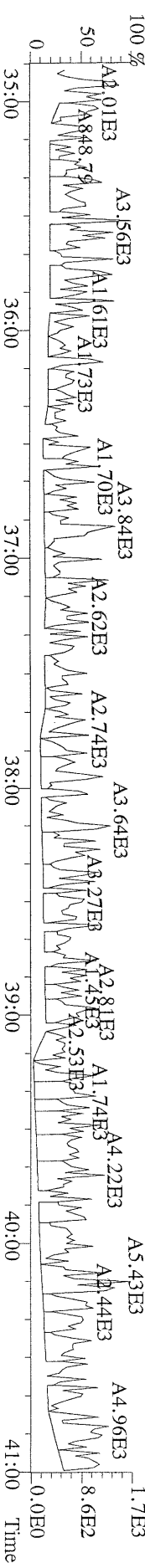
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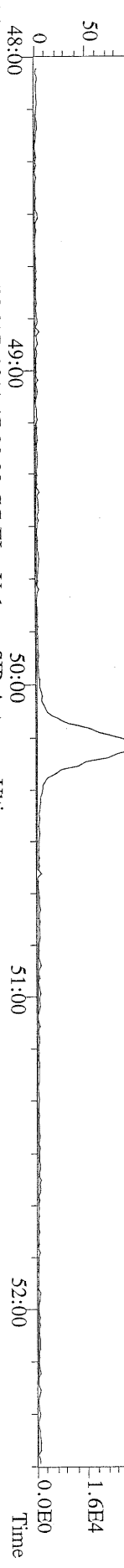
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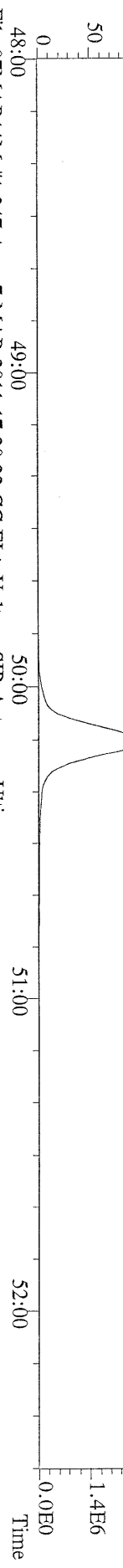
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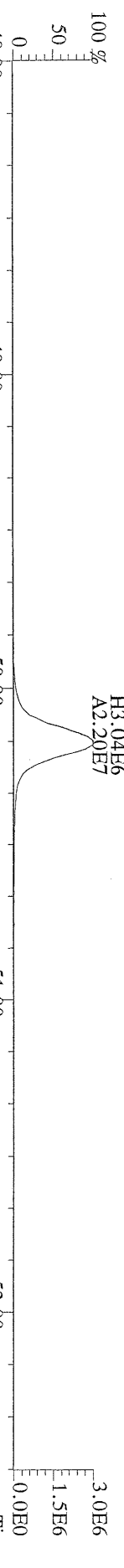
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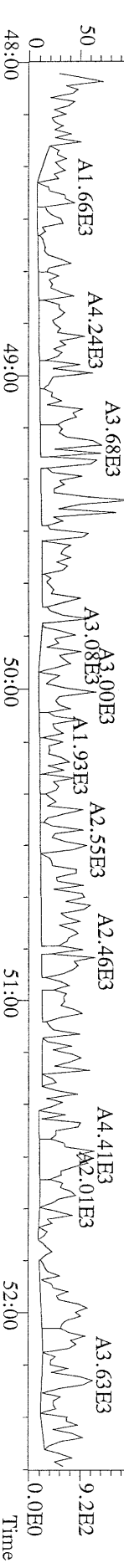
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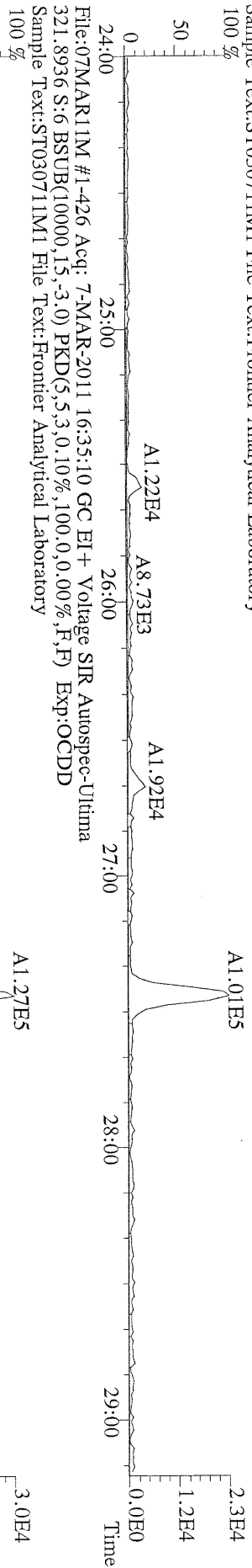
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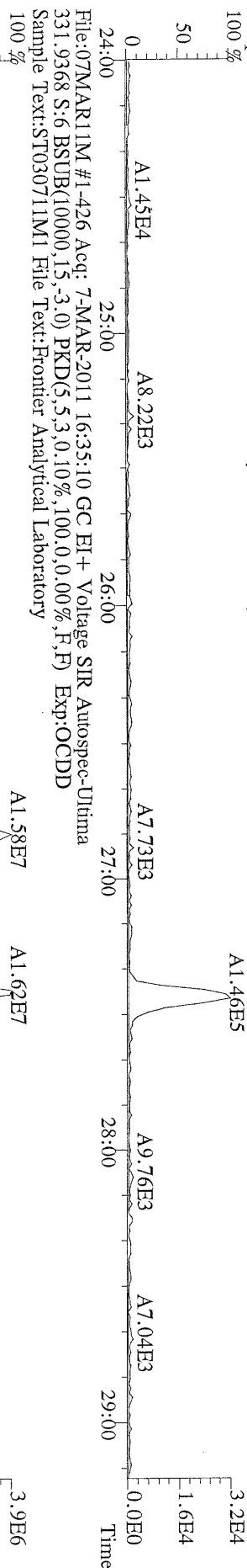
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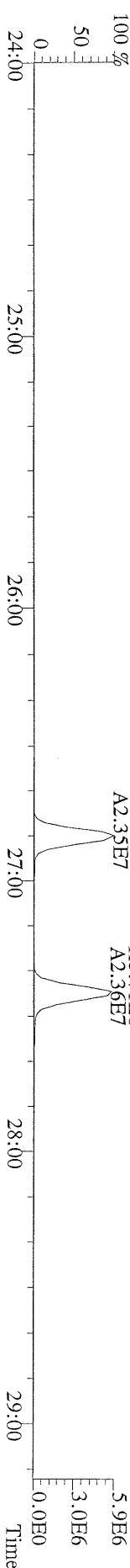
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Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



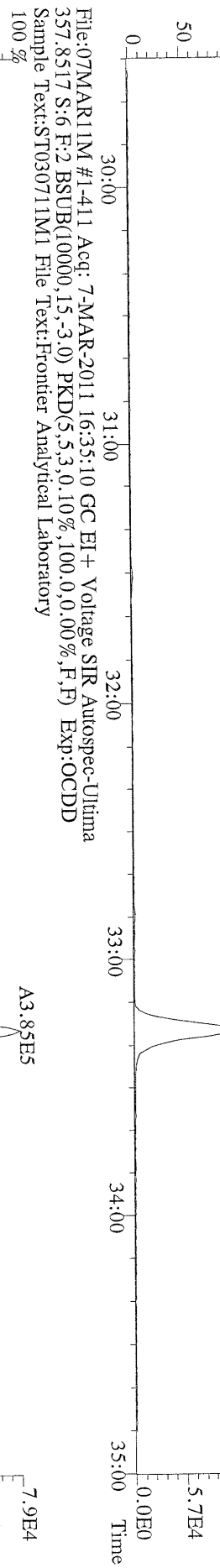
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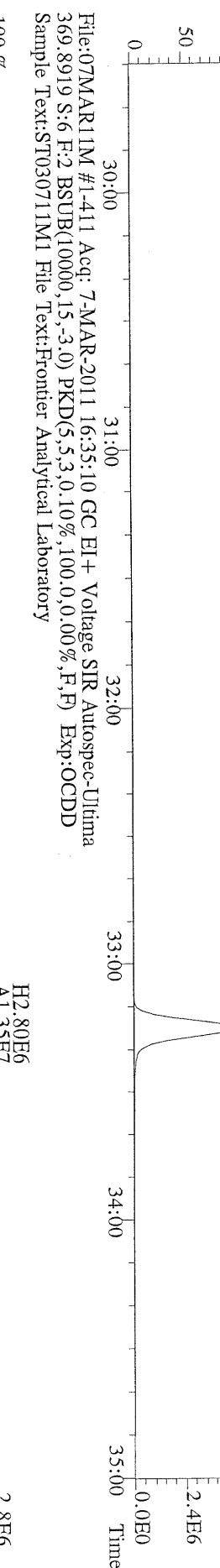
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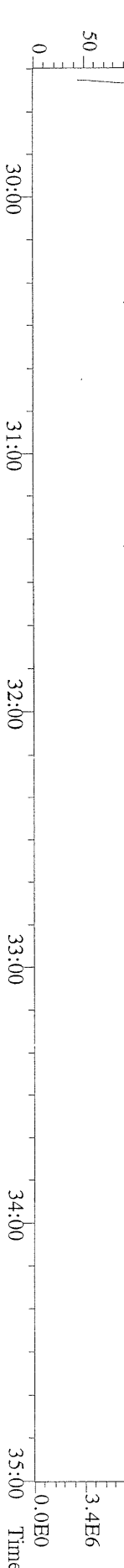
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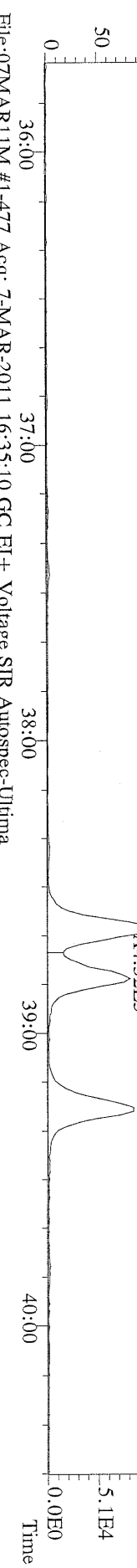
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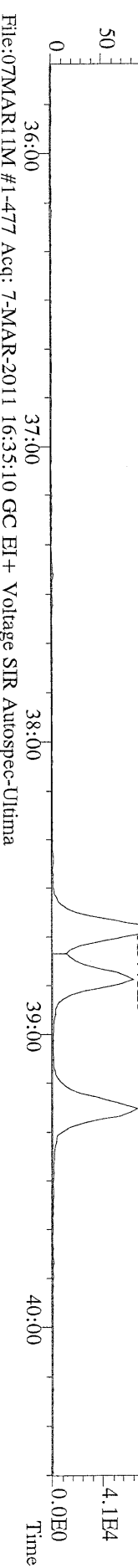
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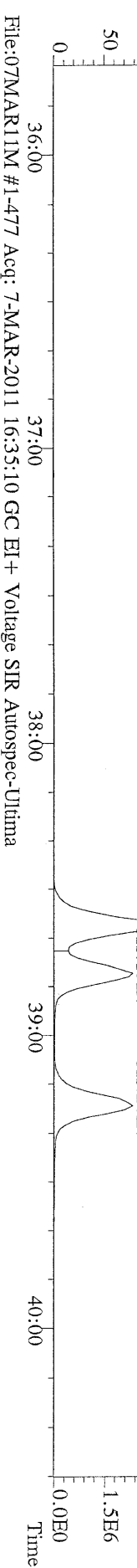
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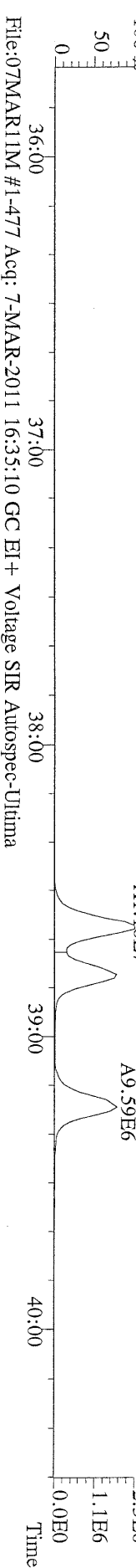
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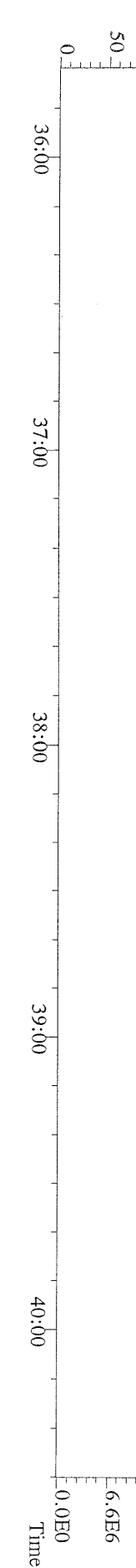
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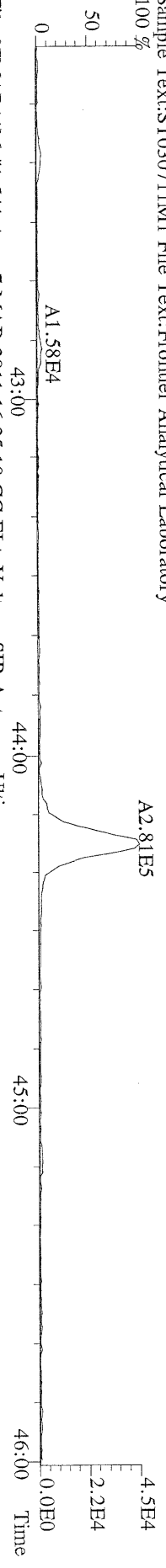
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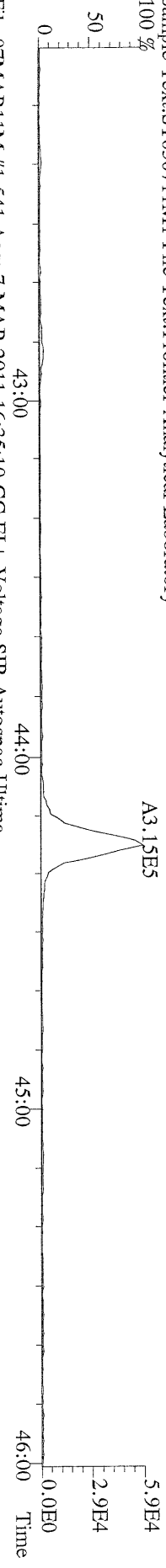
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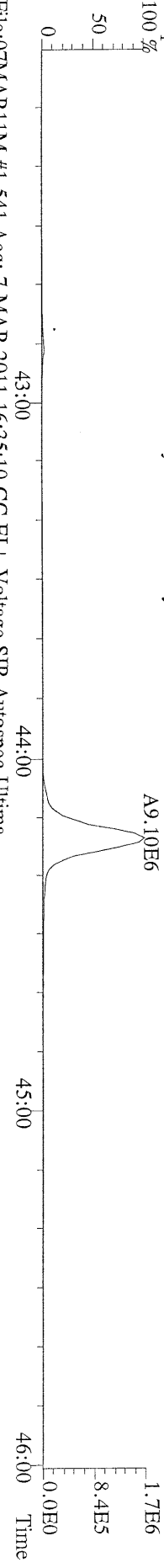
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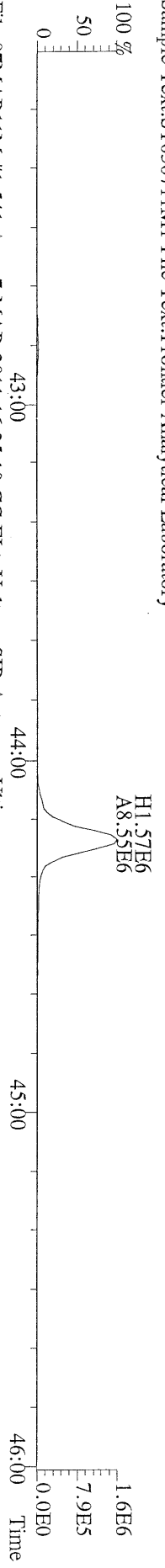
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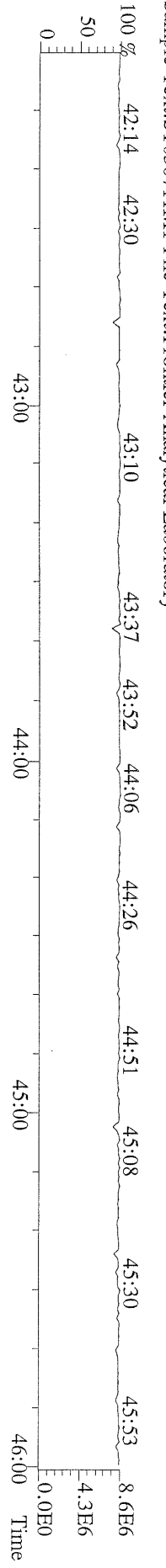
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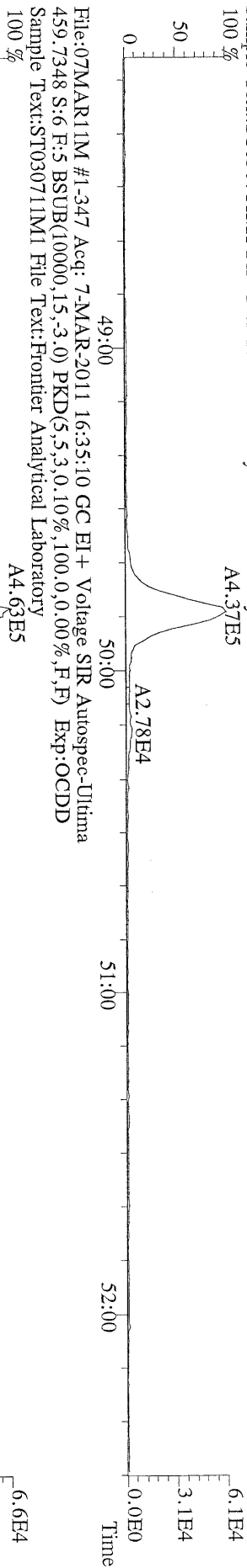
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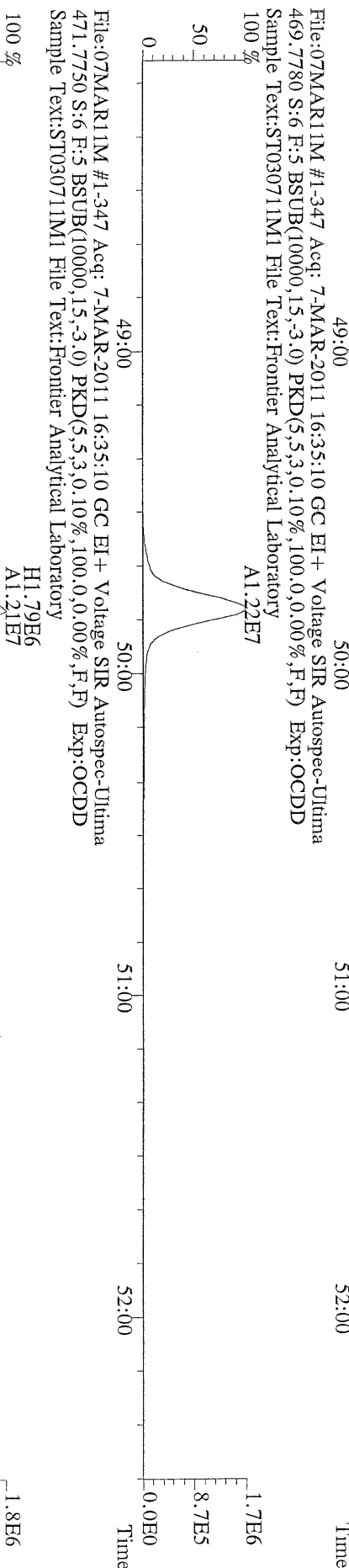
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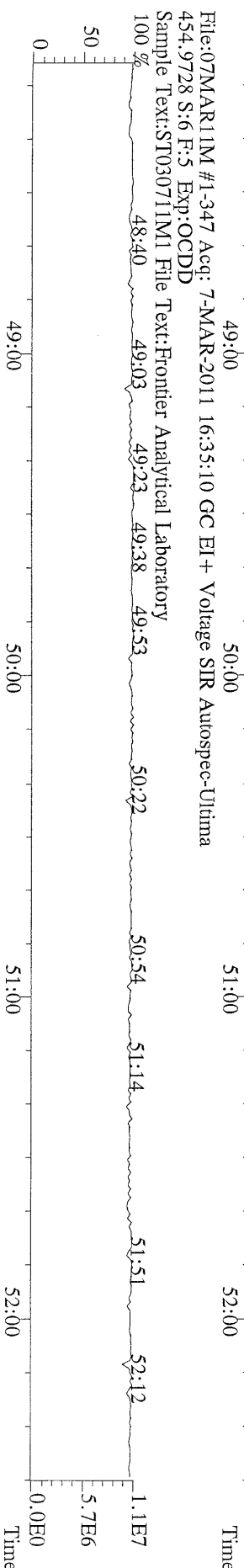
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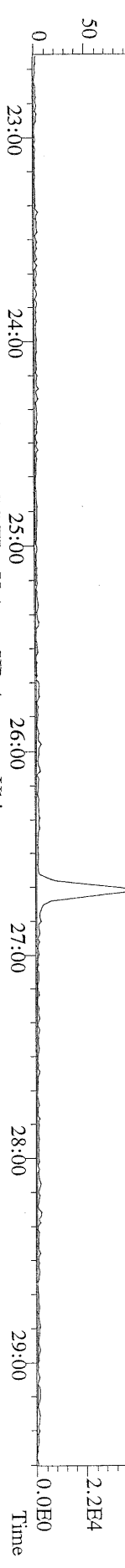
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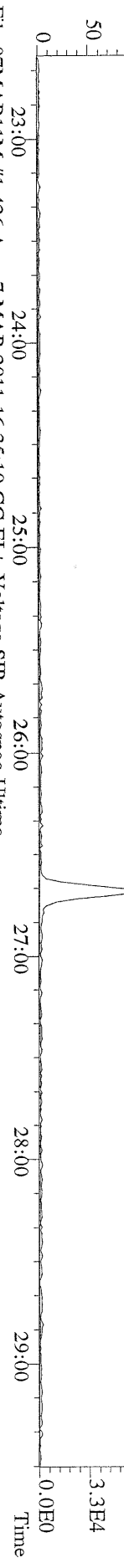
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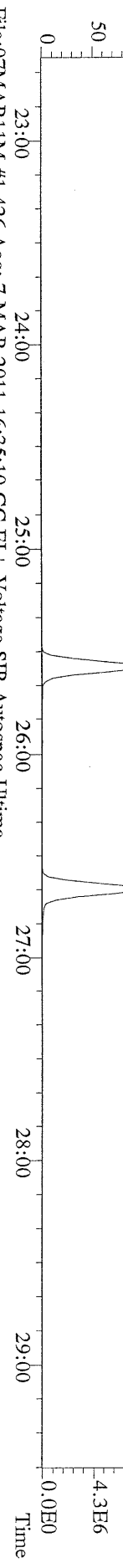
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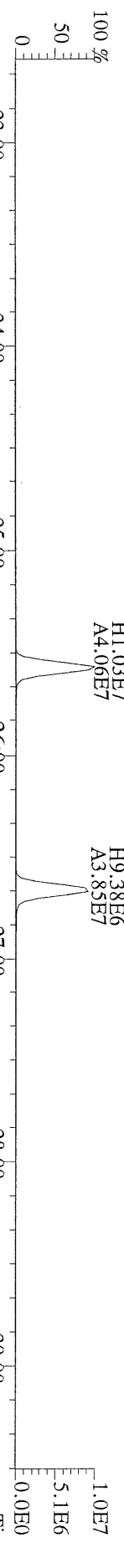
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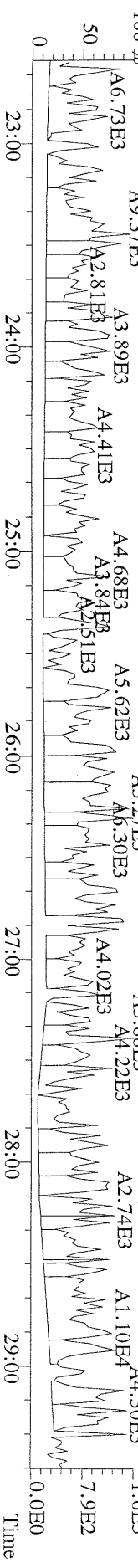
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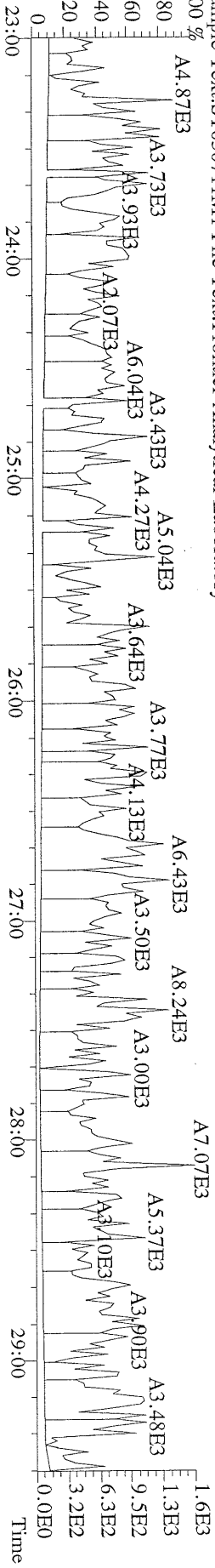
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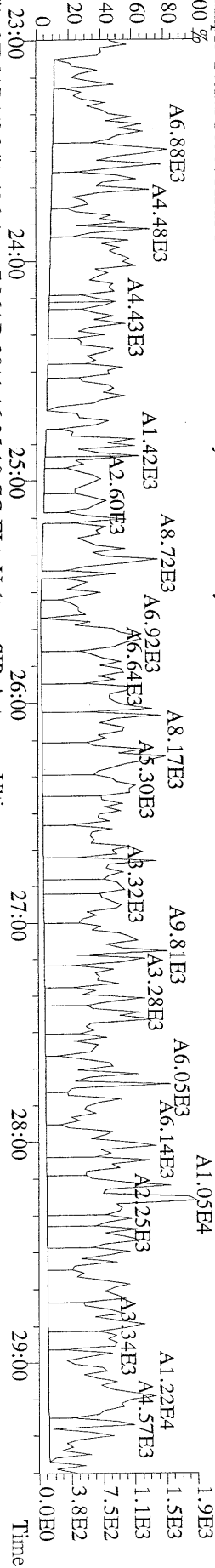
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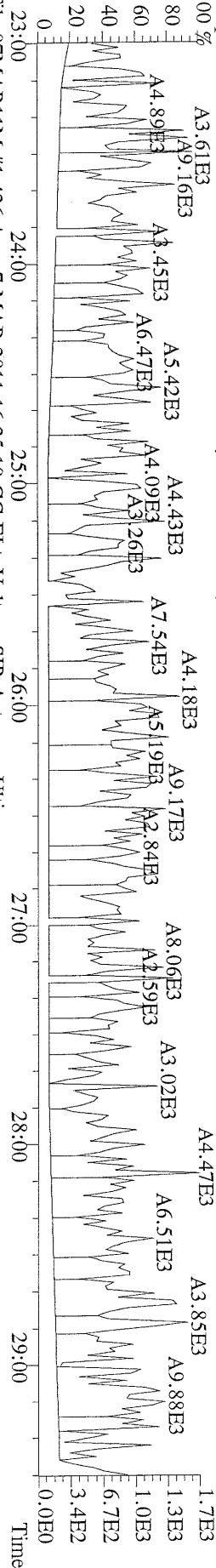
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 339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
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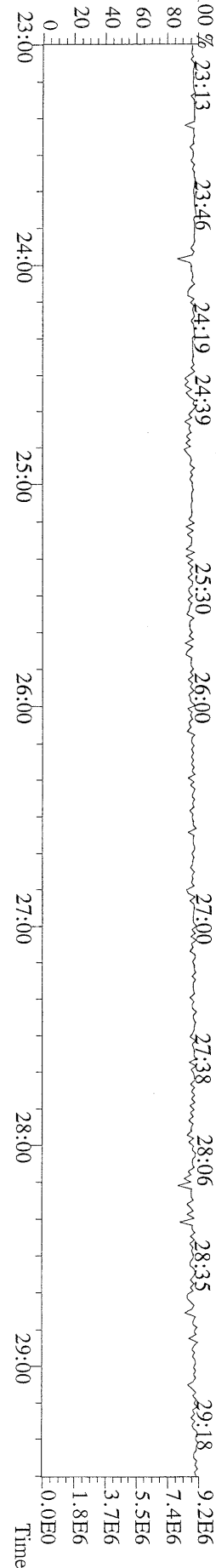
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 341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



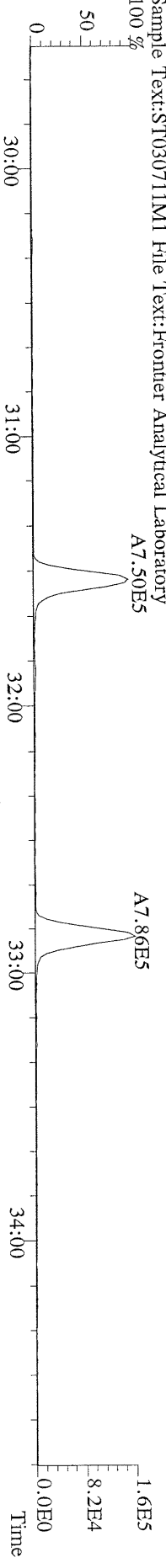
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 409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
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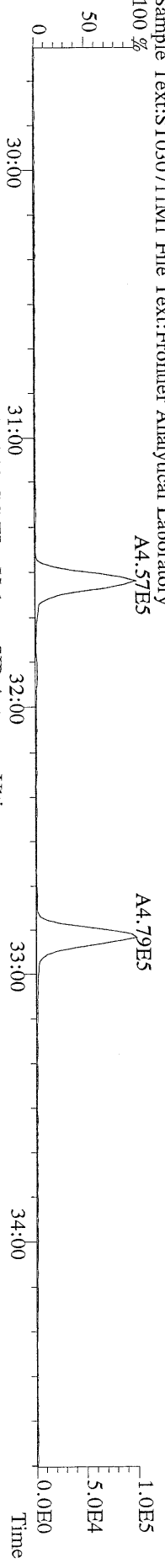
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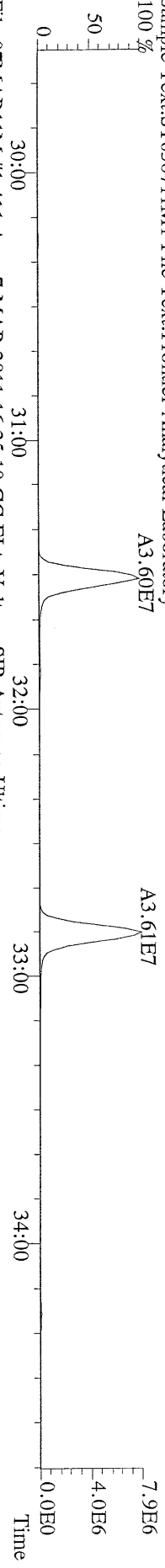
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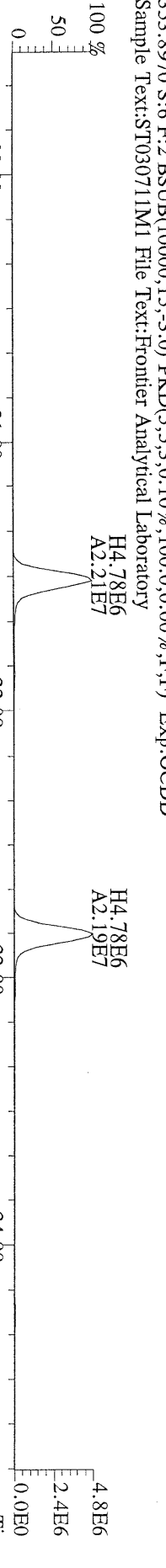
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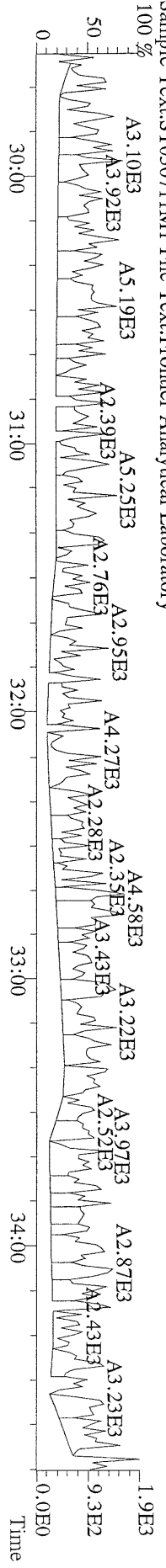
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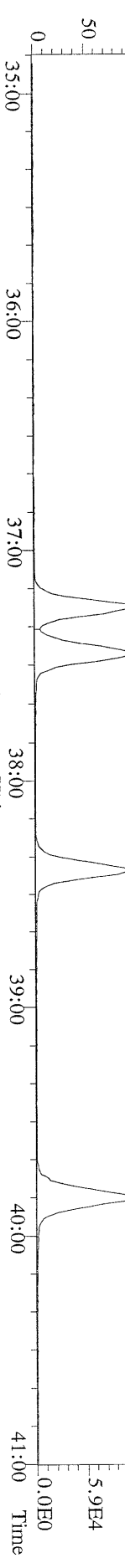
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 Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



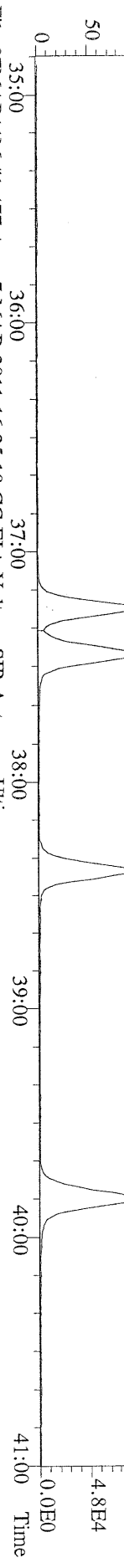
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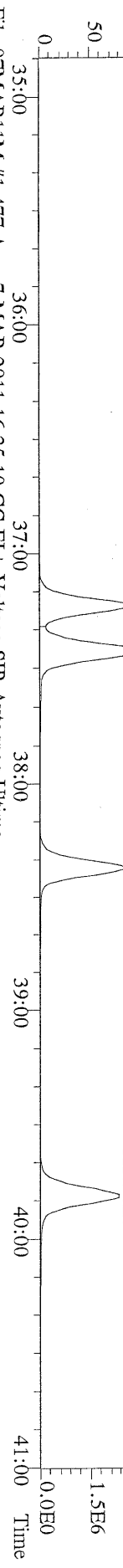
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 Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



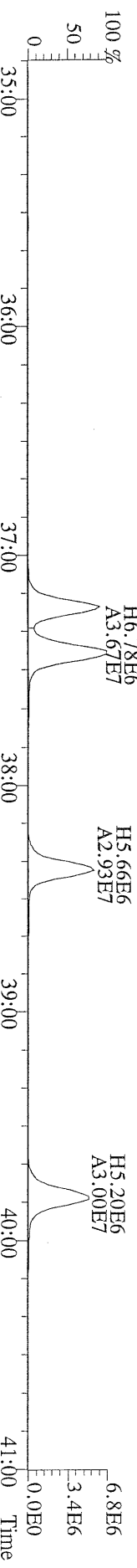
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 Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



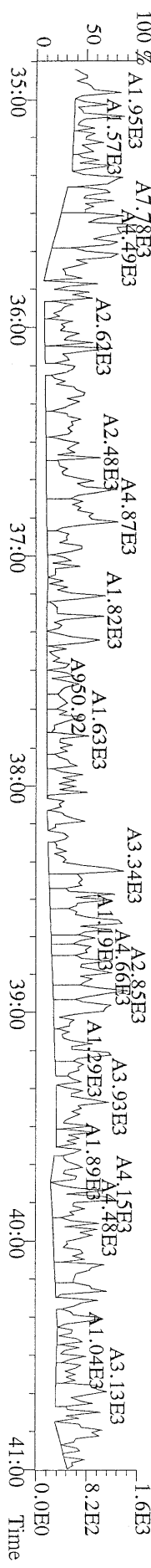
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 383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



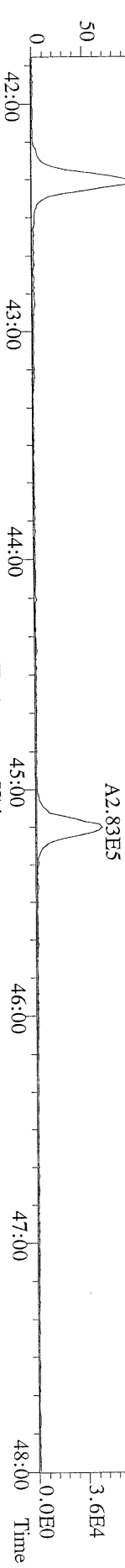
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 Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



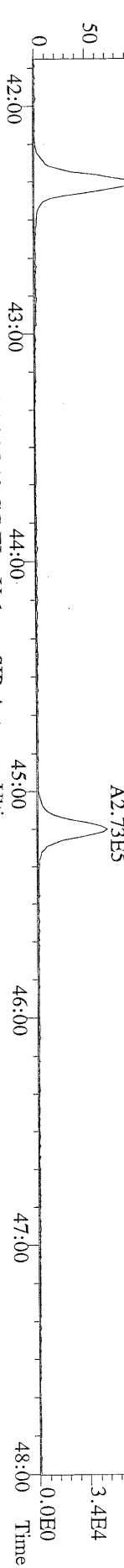
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 Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



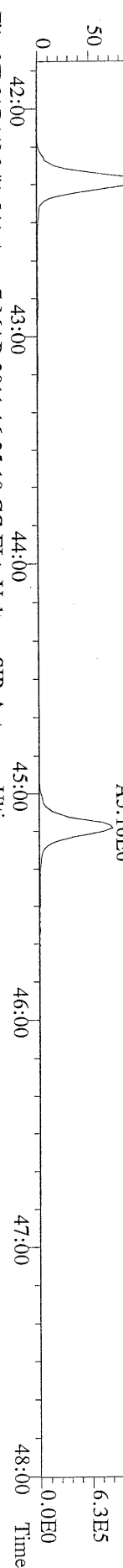
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407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:OCDD
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory
100 % A4.02E5



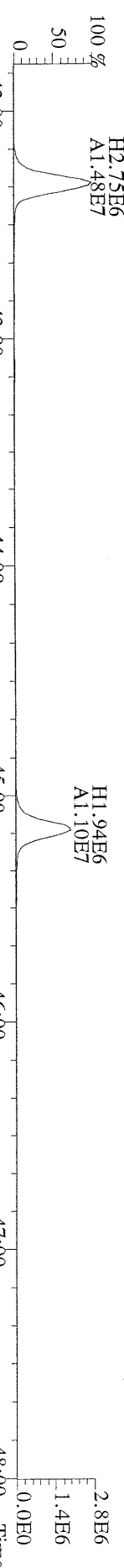
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409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:OCDD
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory
100 % A3.93E5



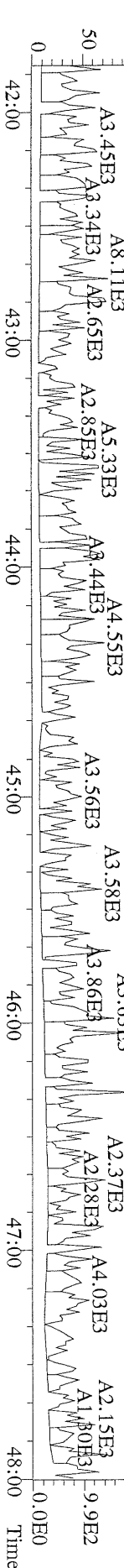
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417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:OCDD
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory
100 % A6.97E6



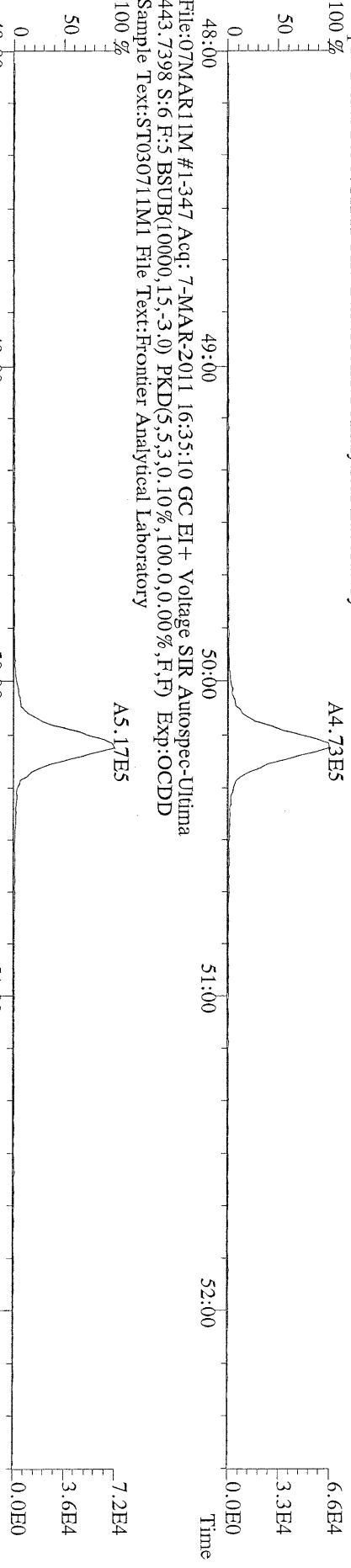
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419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:OCDD
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



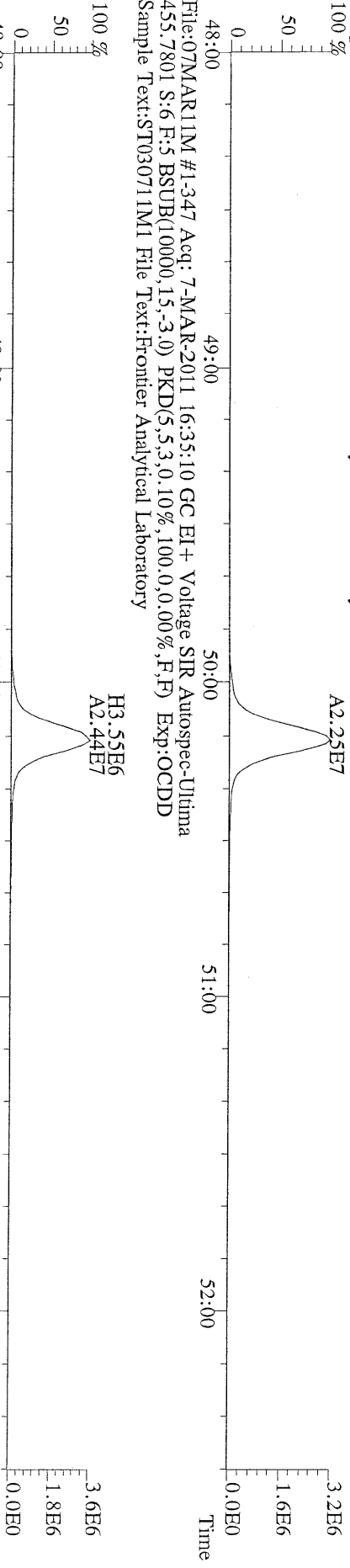
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479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:OCDD
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



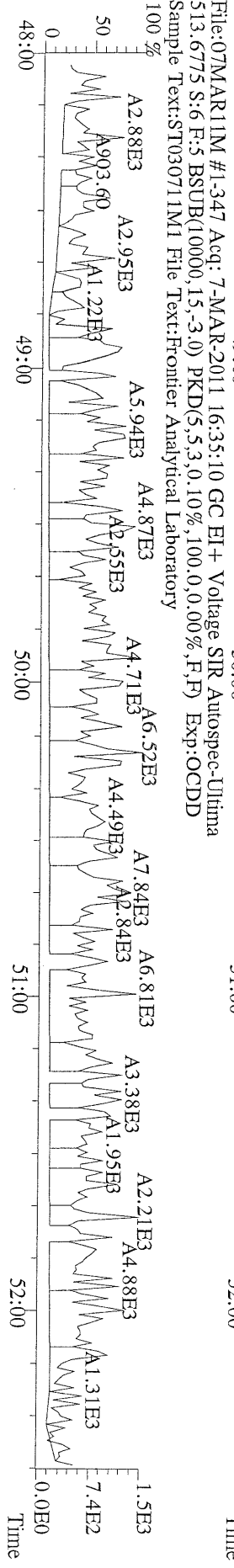
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441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory
100 %



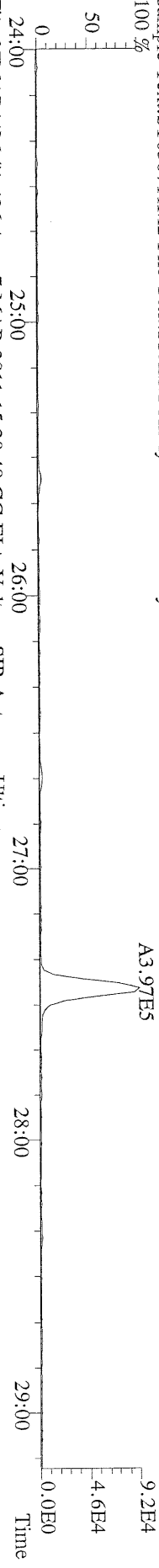
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453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory
100 %



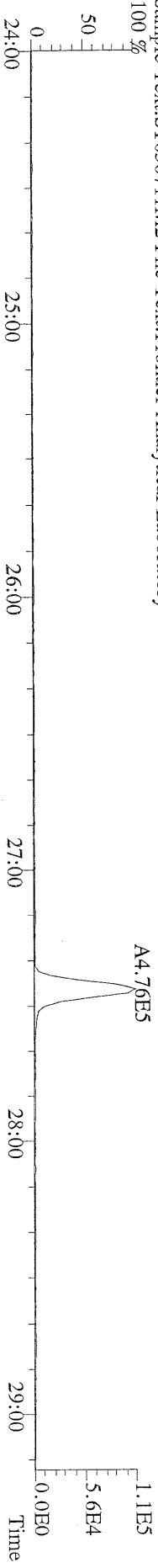
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455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



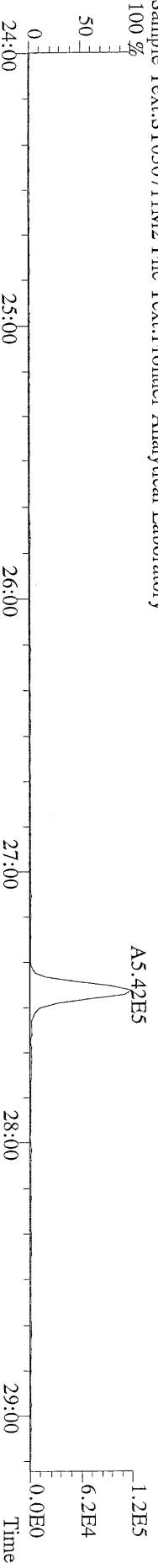
File:07MAR11M #1-426 Acq: 7-MAR-2011 15:39:48 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory
100 %



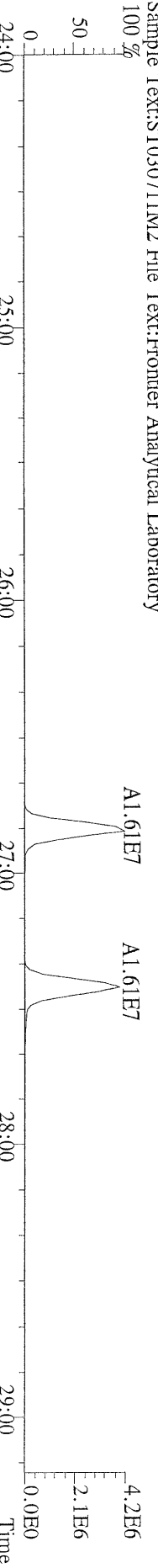
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321.8936 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory
100 %



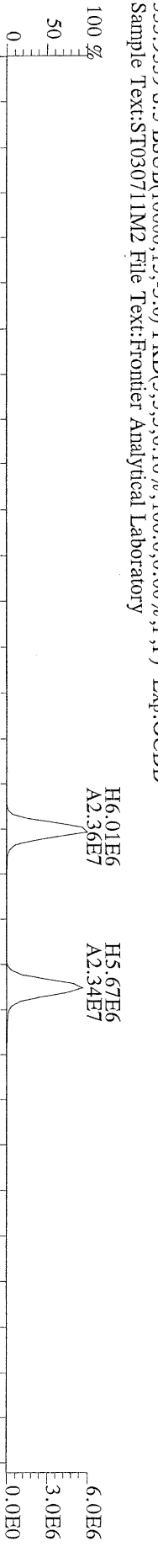
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327.8847 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory
100 %



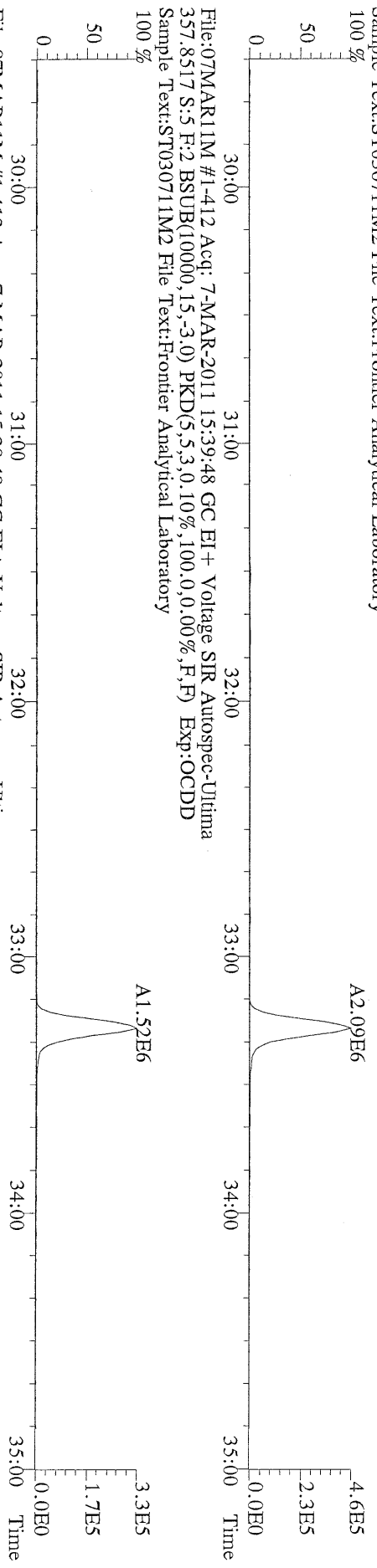
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331.9368 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory
100 %



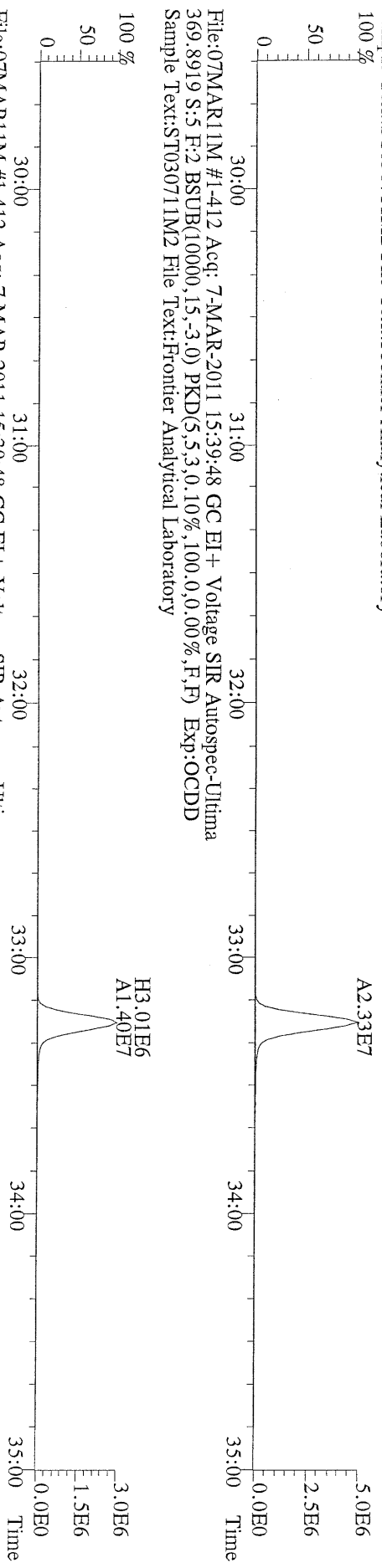
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333.9339 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
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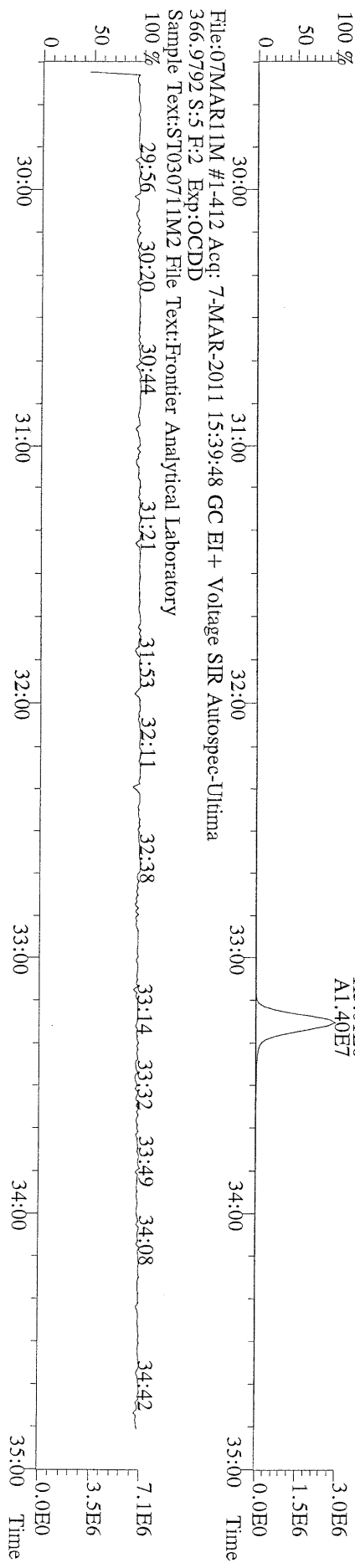
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355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory
100 %



File:07MAR11M #1-412 Acq: 7-MAR-2011 15:39:48 GC EI+ Voltage SIR Autospec-Utima
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory
100 %

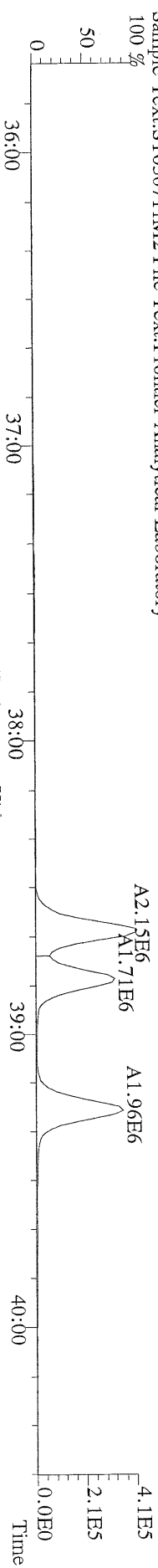


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369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory

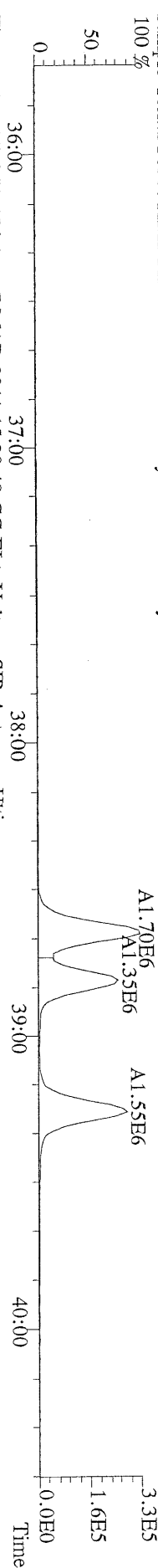


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366.9792 S:5 F:2 Exp:OCDD
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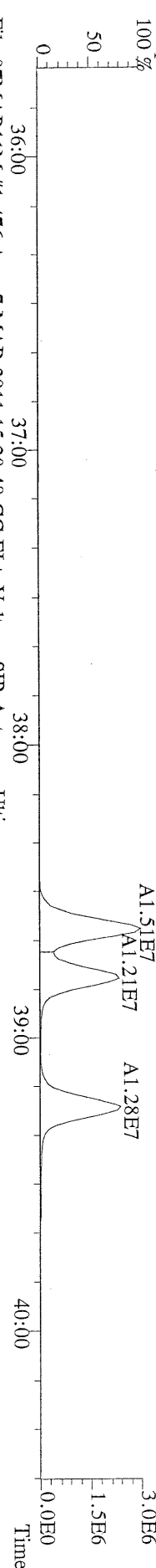
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 389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



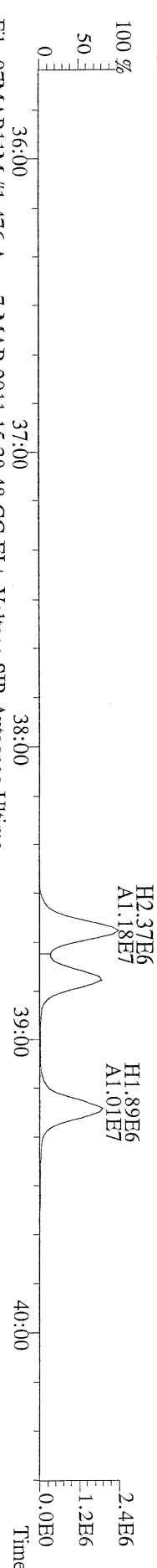
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 391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



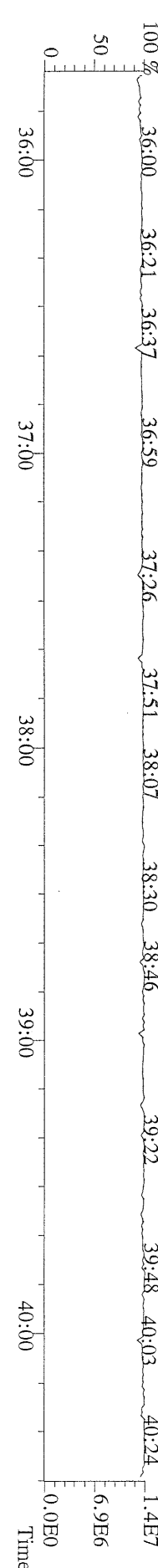
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 401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



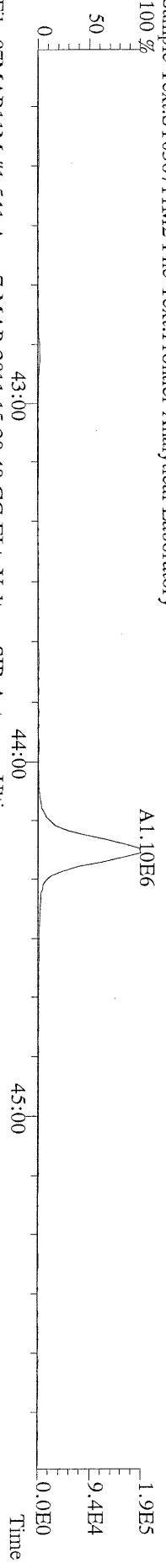
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 403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
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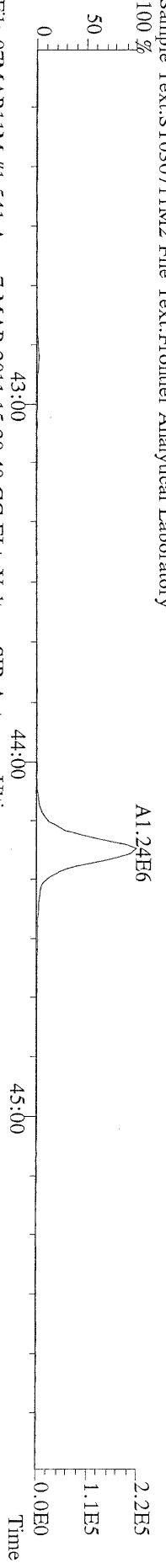
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 380.9760 S:5 F:3 Exp:OCDD
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



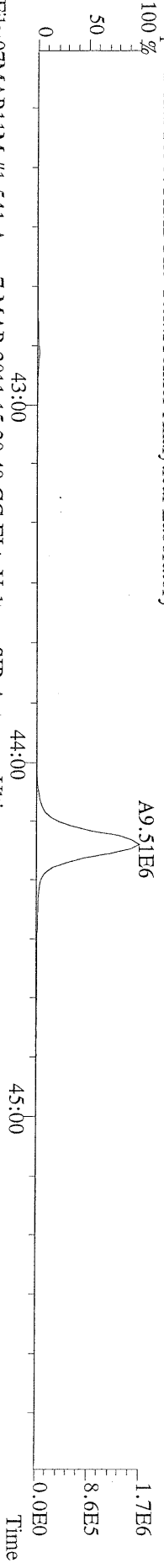
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 423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



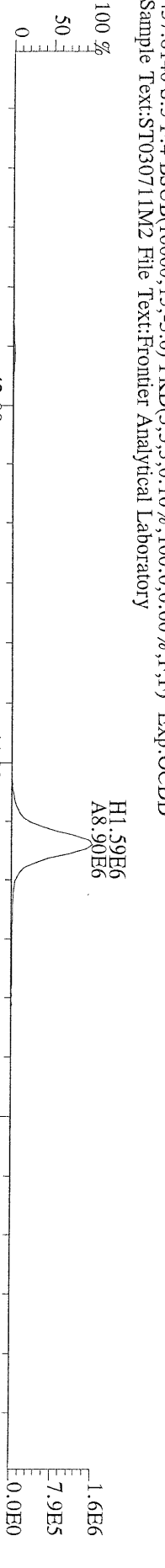
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 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



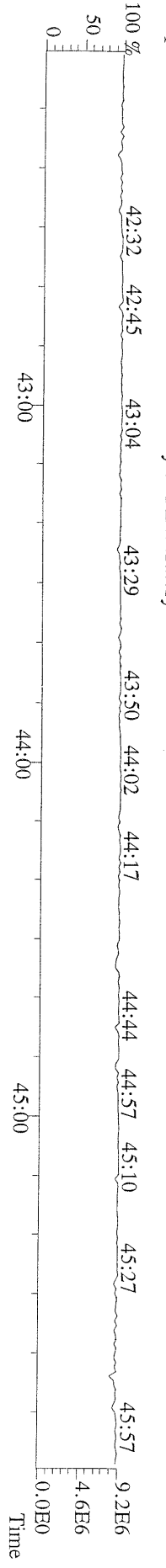
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 435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



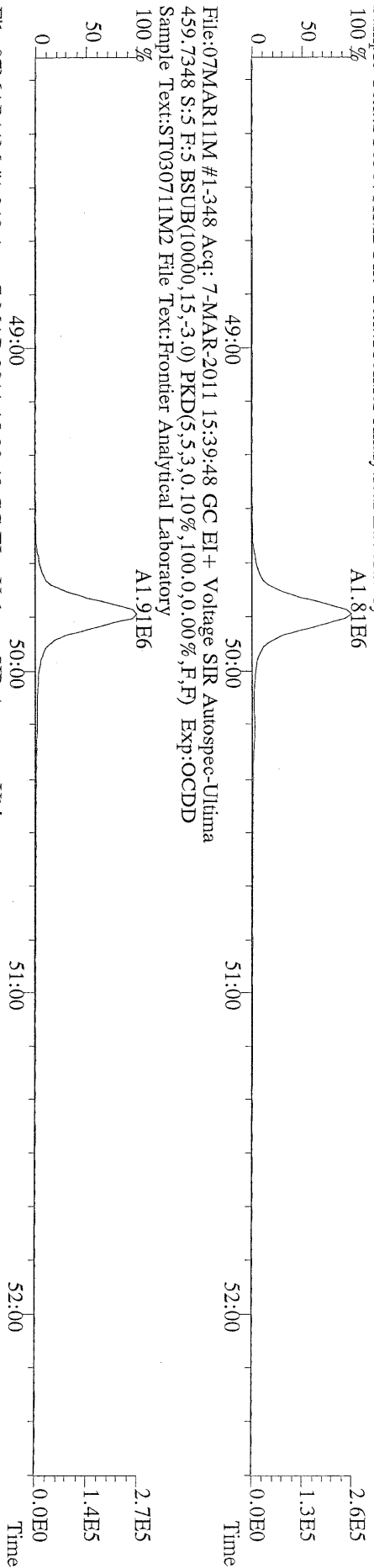
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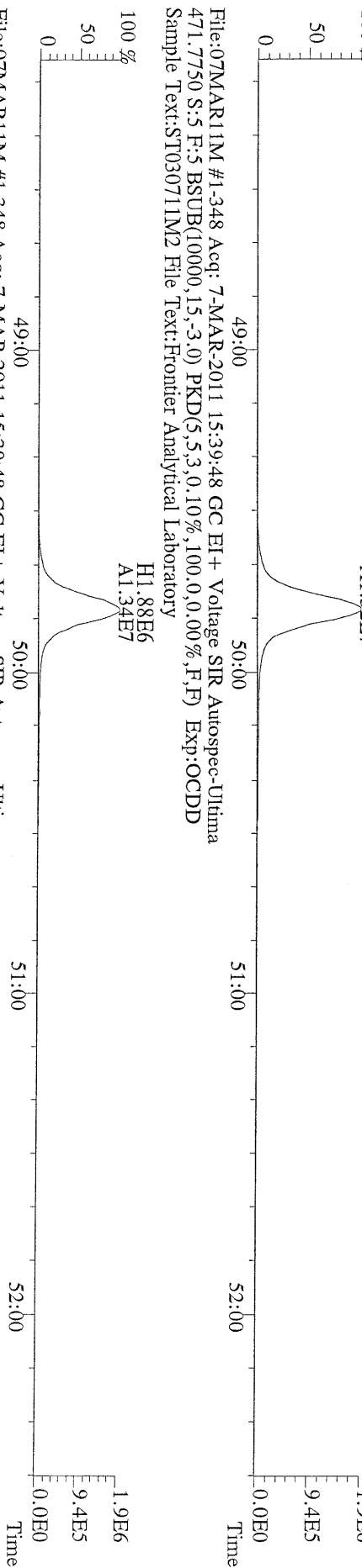
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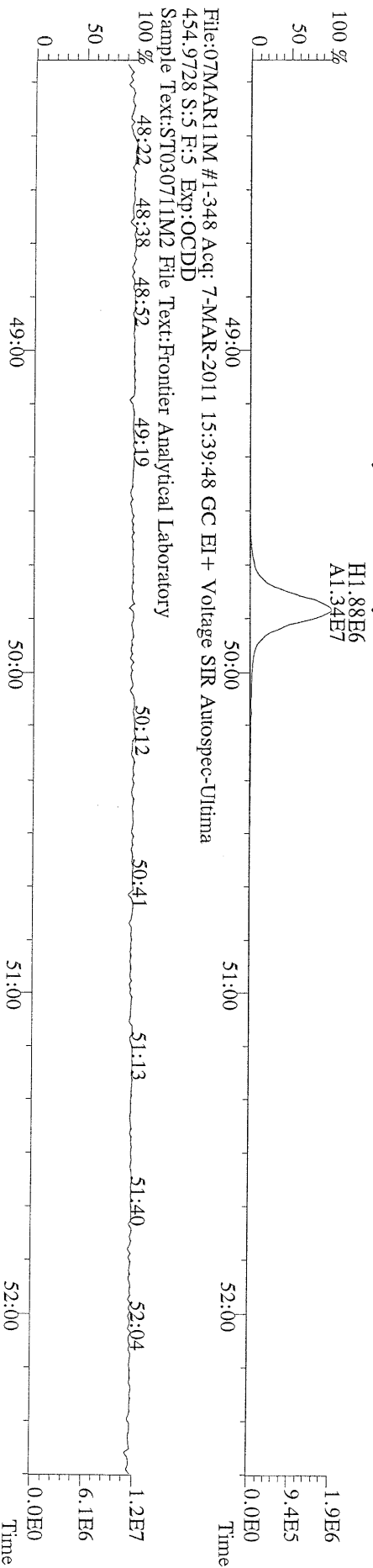
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457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



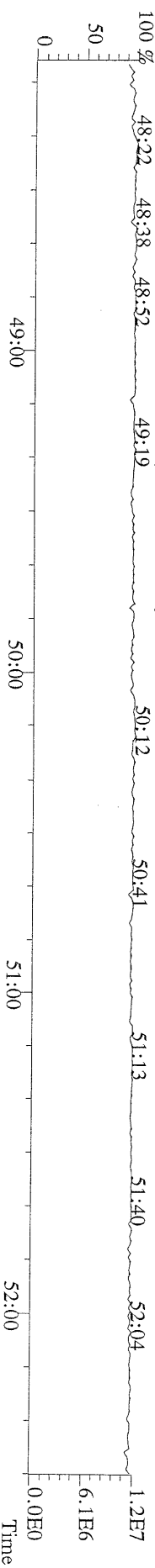
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469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:OCDD
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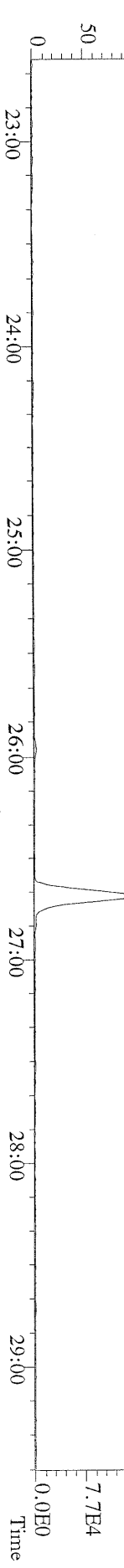
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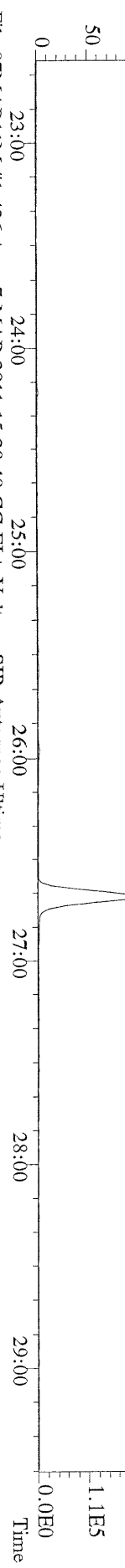
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454.9728 S:5 F:5 Exp:OCDD
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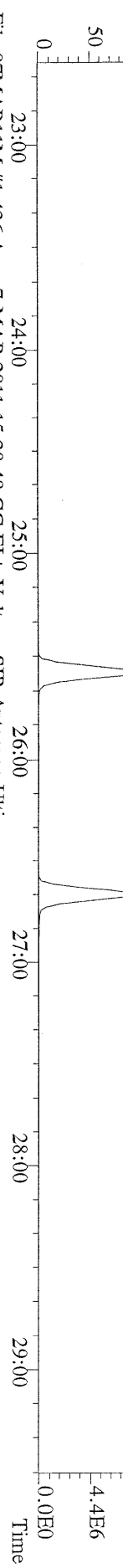
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 303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
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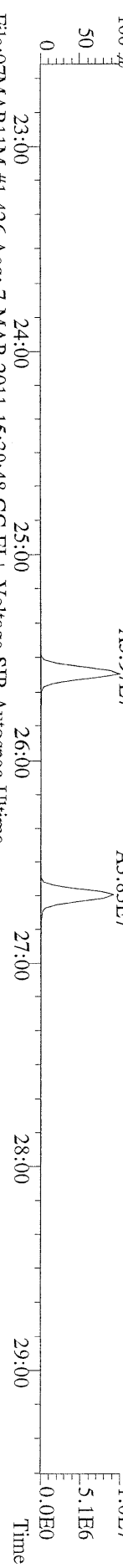
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 305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
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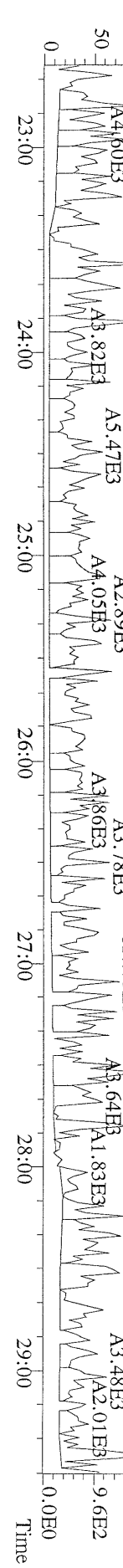
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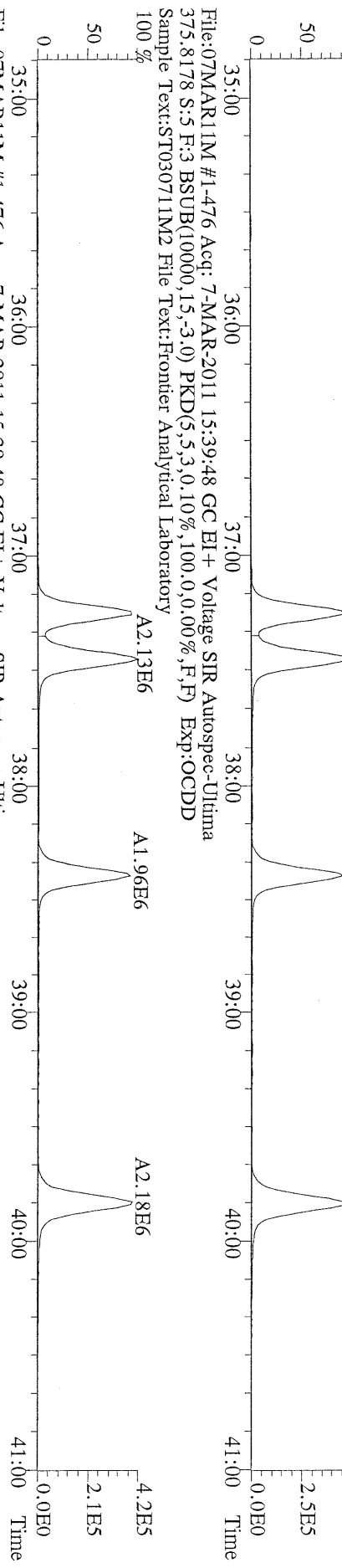
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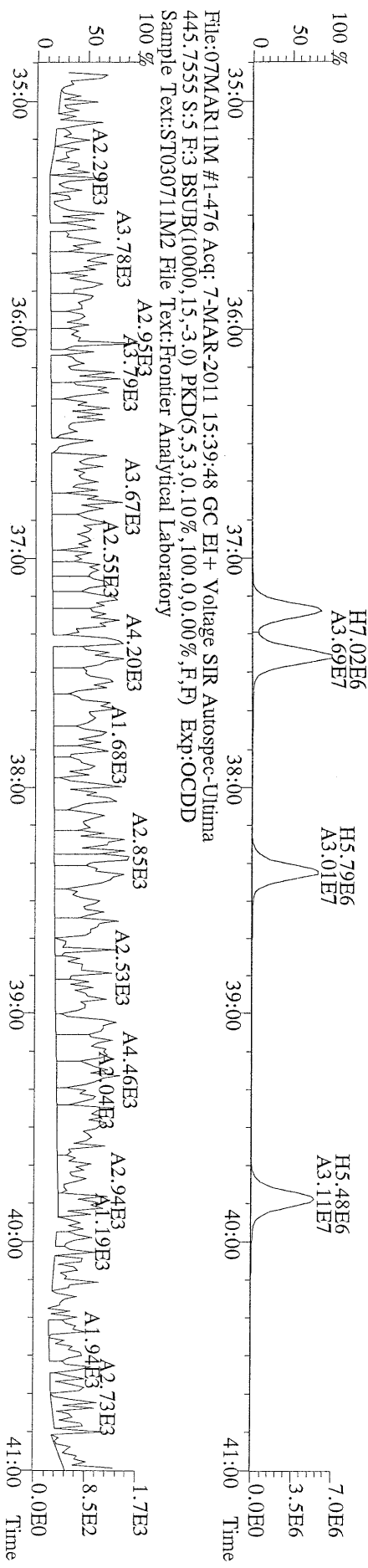
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 375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-476 Acq: 7-MAR-2011 15:39:48 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:5 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory

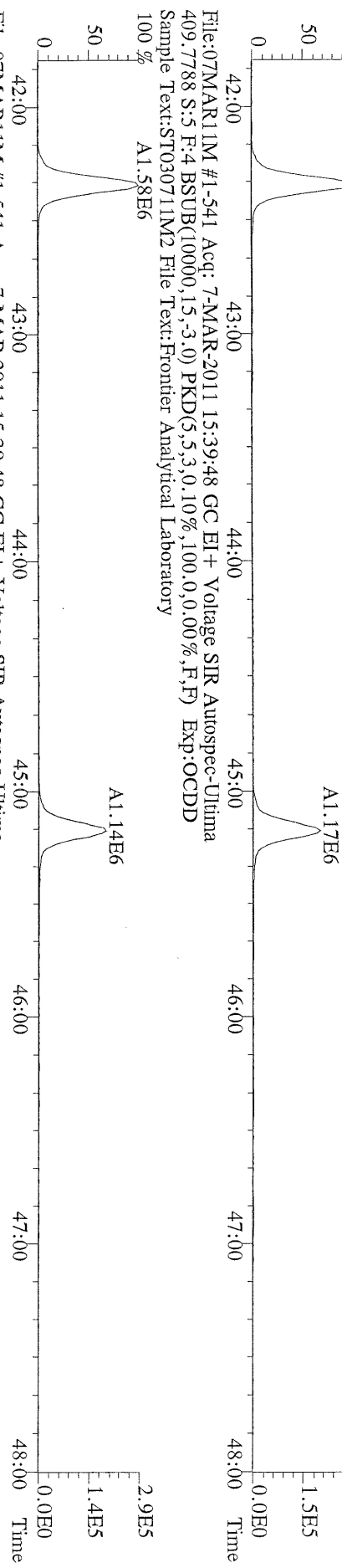


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 385.8610 S:5 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD
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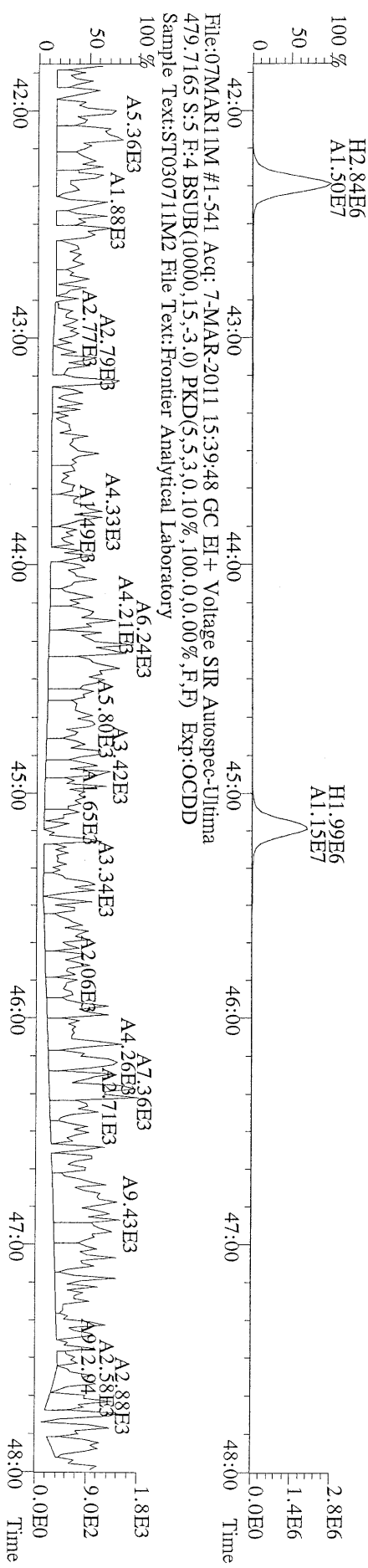


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 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory

File:07MAR11M #1-541 Acq: 7-MAR-2011 15:39:48 GC EI+ Voltage SIR Autospec-Utima
 407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
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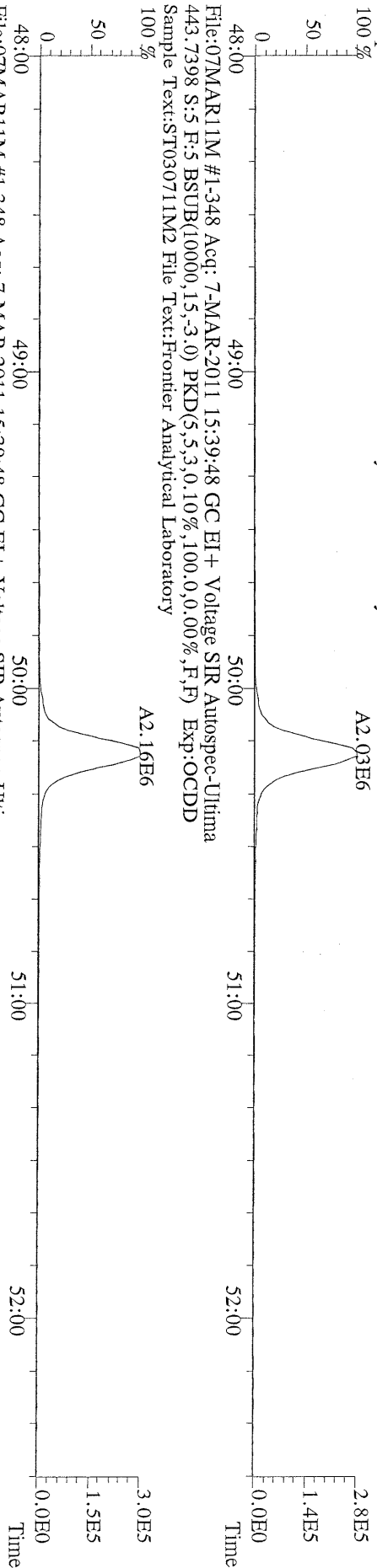
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 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



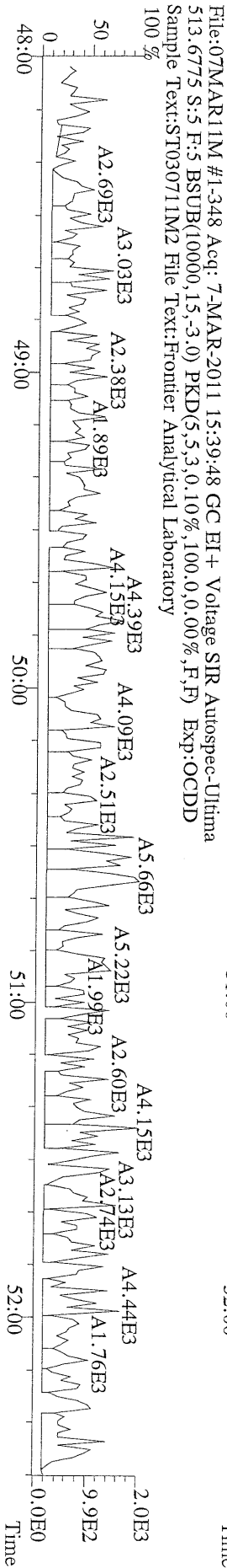
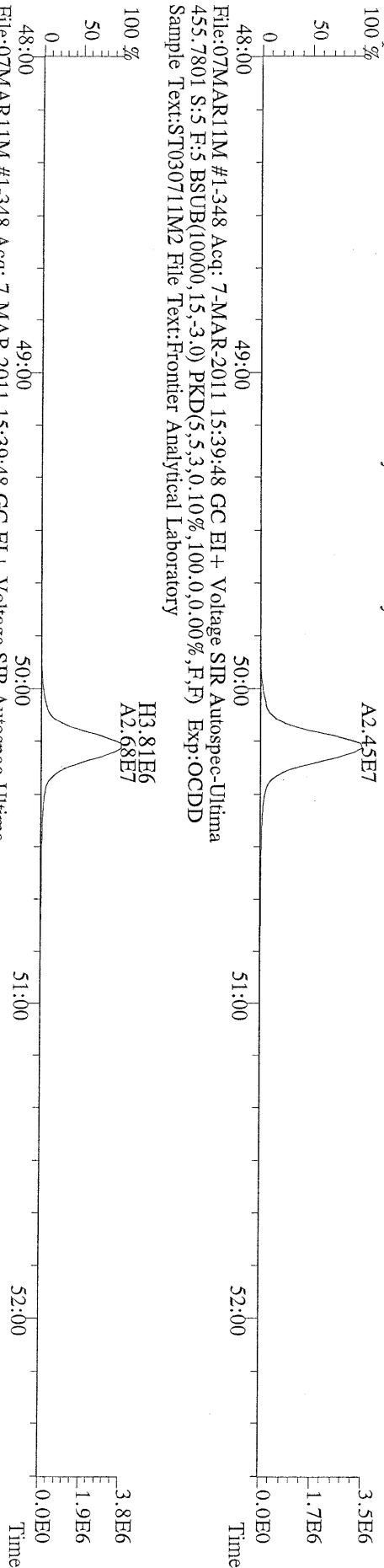
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 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



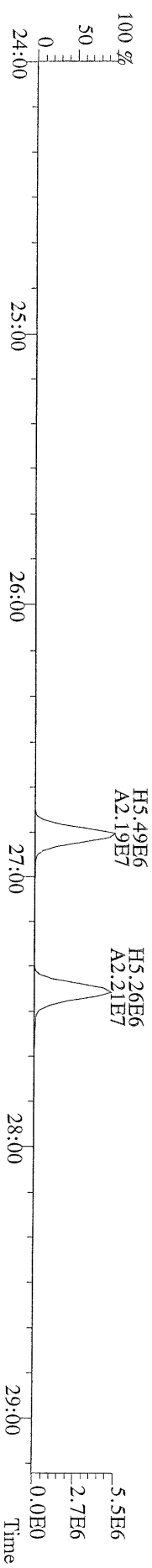
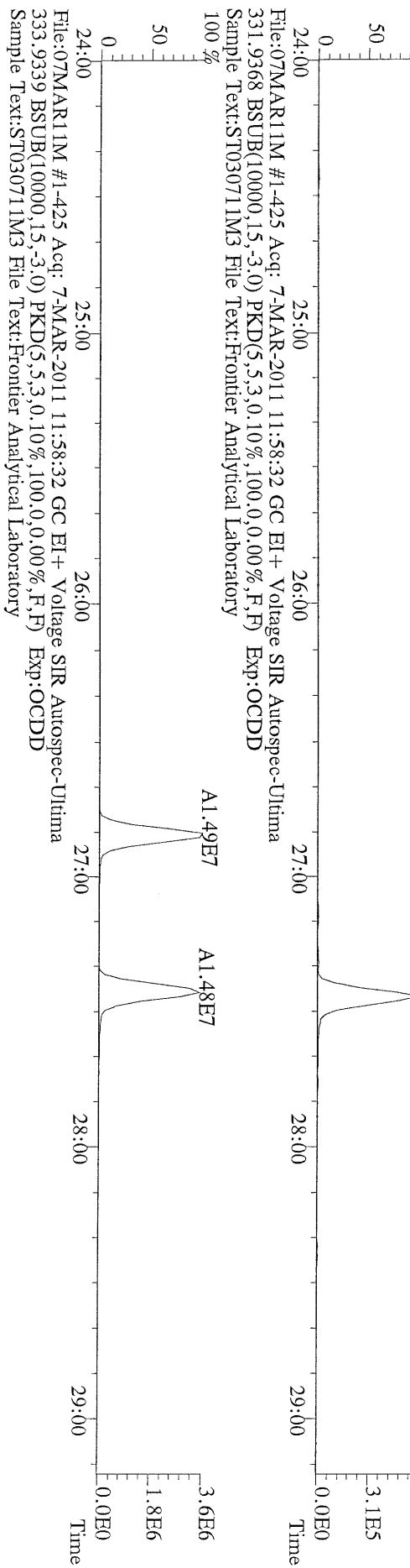
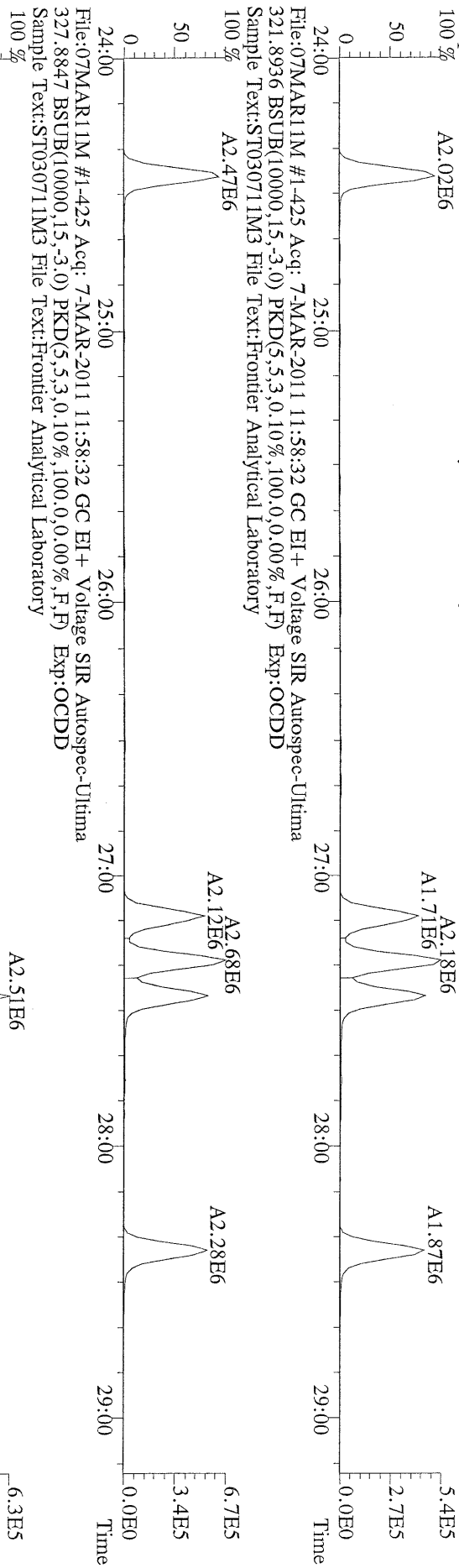
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441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



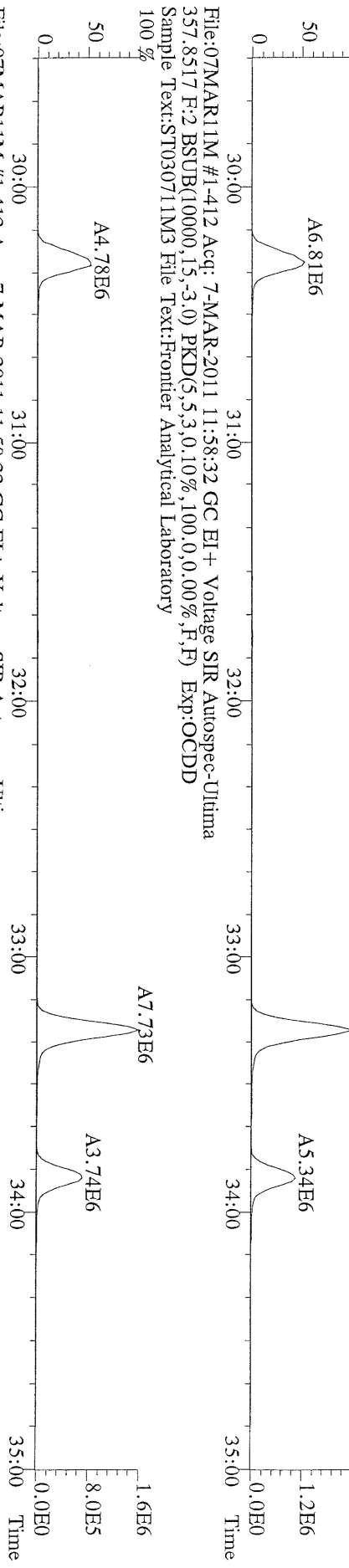
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453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
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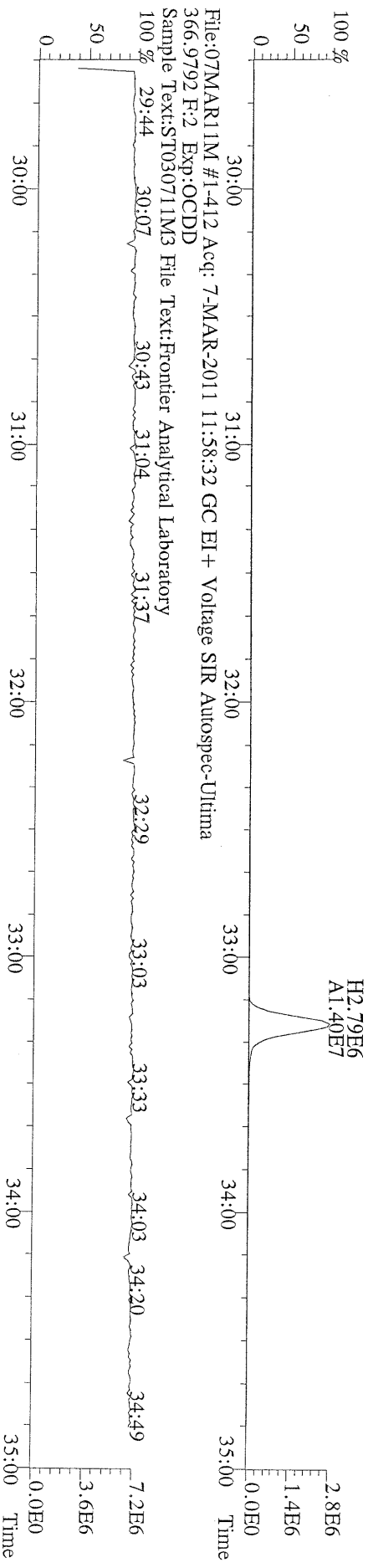
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319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory
100 %



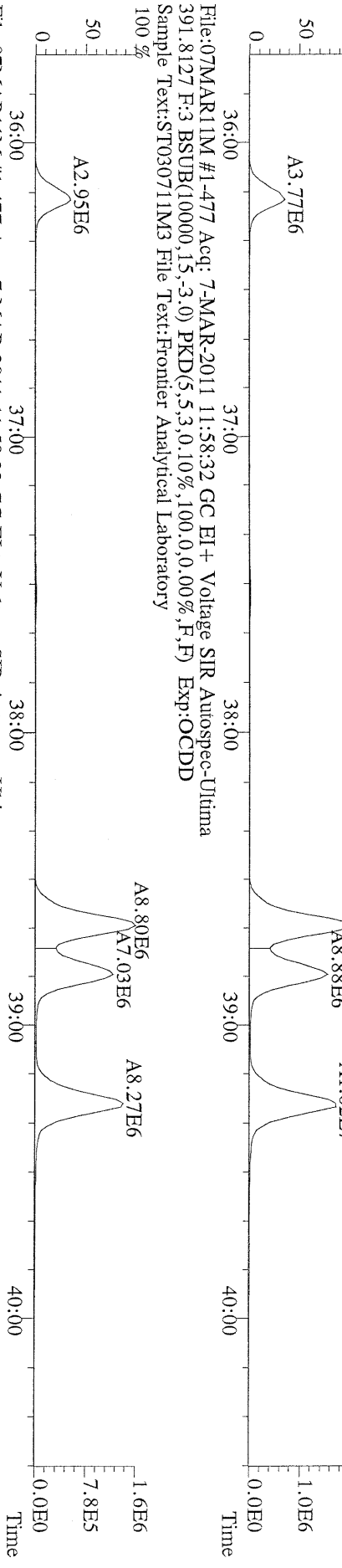
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 355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



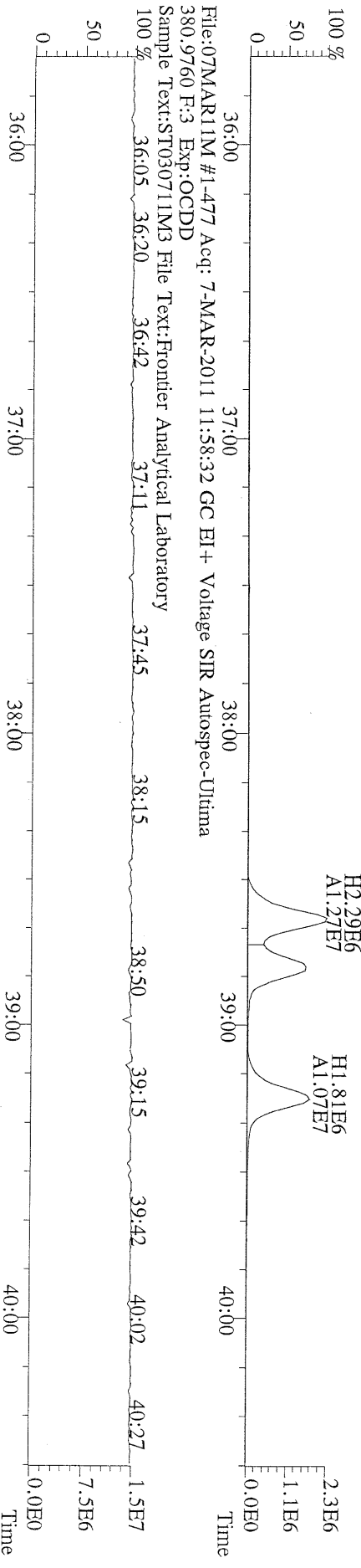
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 367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-477 Acq: 7-MAR-2011 11:58:32 GC EI+ Voltage SIR Autospec-Utima
 389.8156 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-477 Acq: 7-MAR-2011 11:58:32 GC EI+ Voltage SIR Autospec-Utima
 401.8559 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
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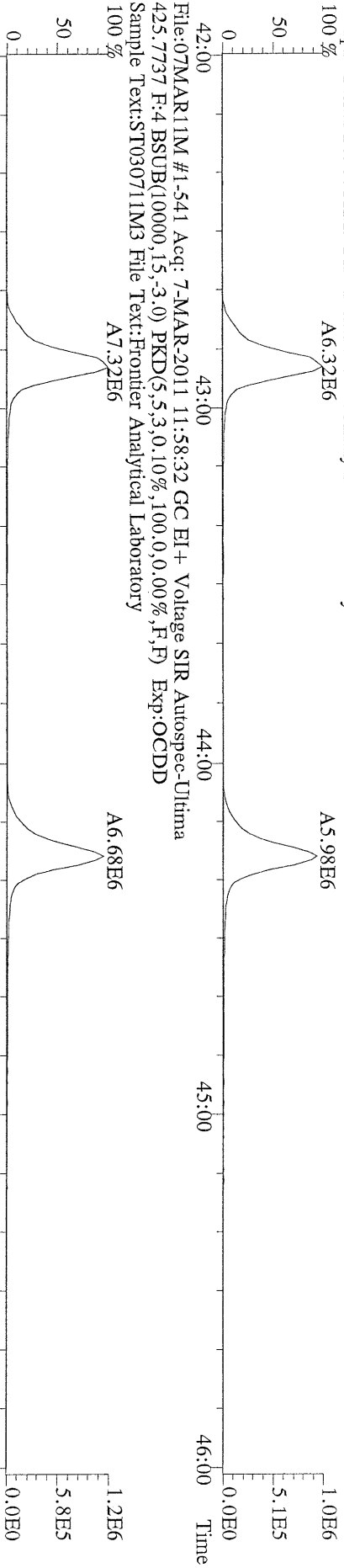
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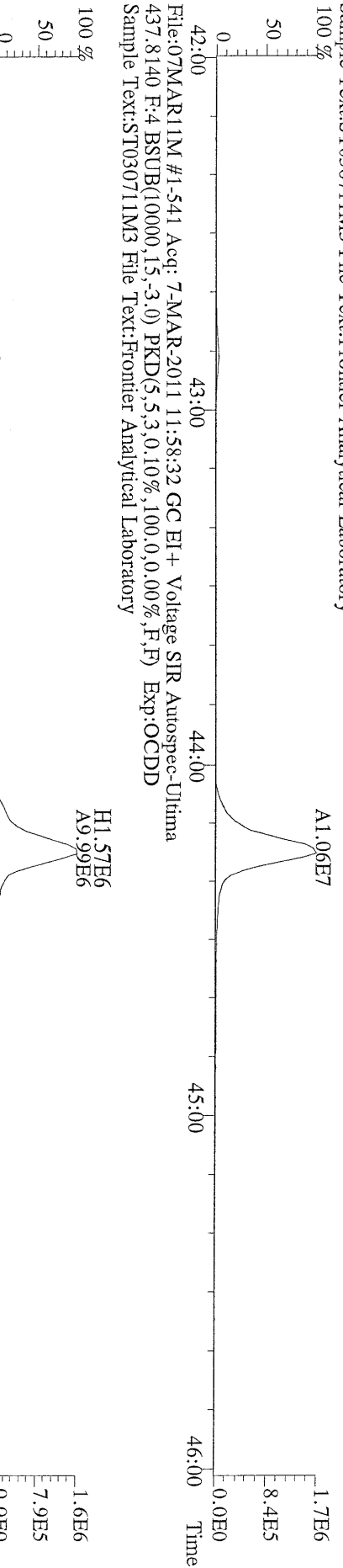
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 380.9760 F:3 Exp:OCDD
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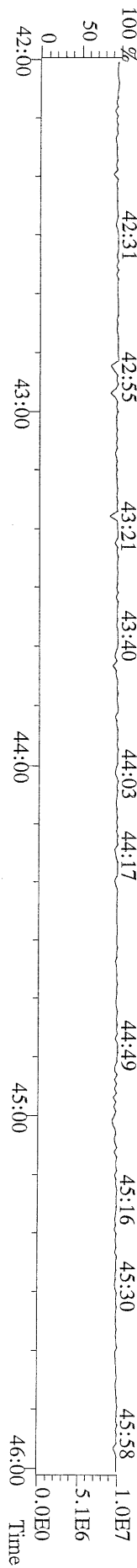
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423.7767 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory
100 %



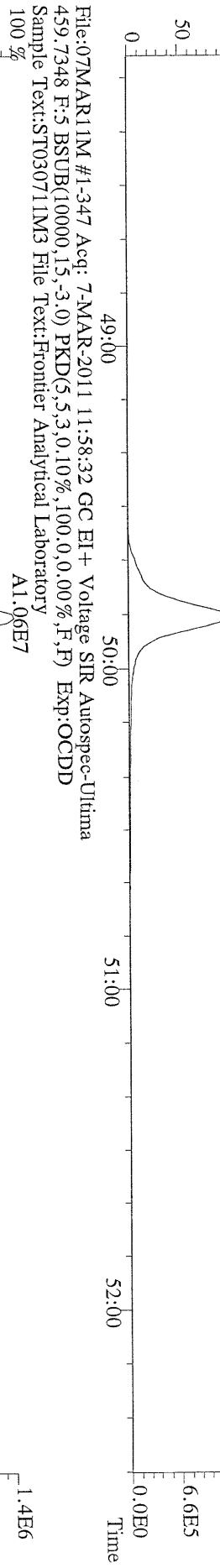
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435.8169 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory
100 %



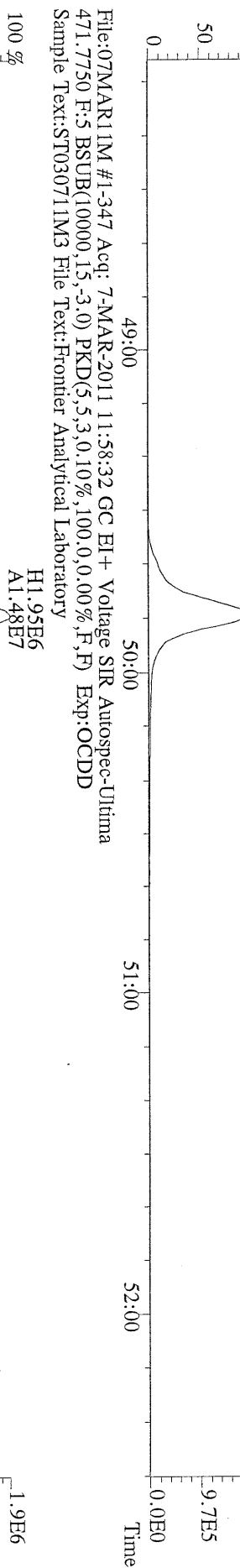
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430.9728 F:4 Exp:OCDD
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-347 Acq: 7-MAR-2011 11:58:32 GC EI+ Voltage SIR Autospec-Ultima
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory
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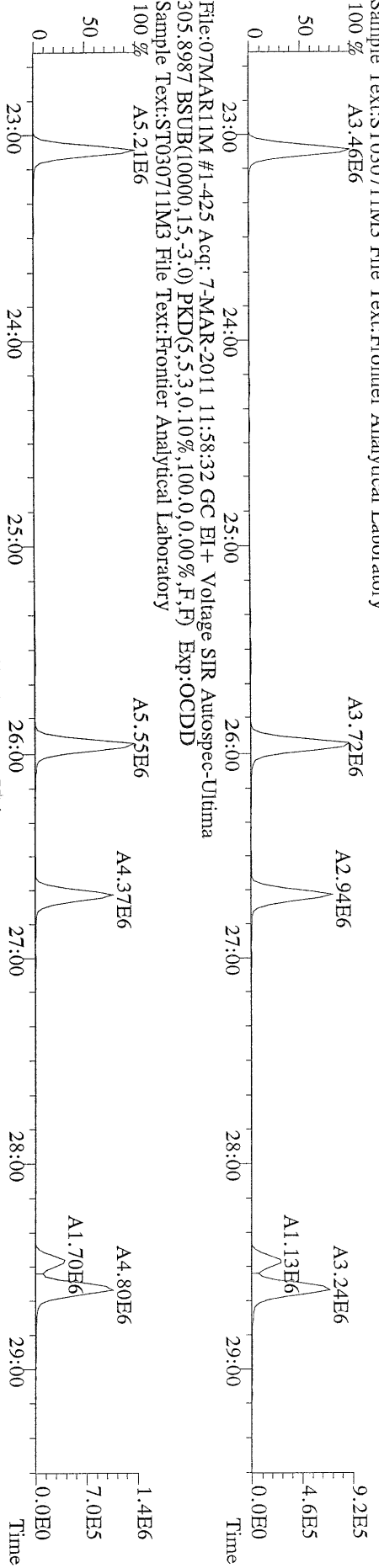
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469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
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100 % A1.49E7



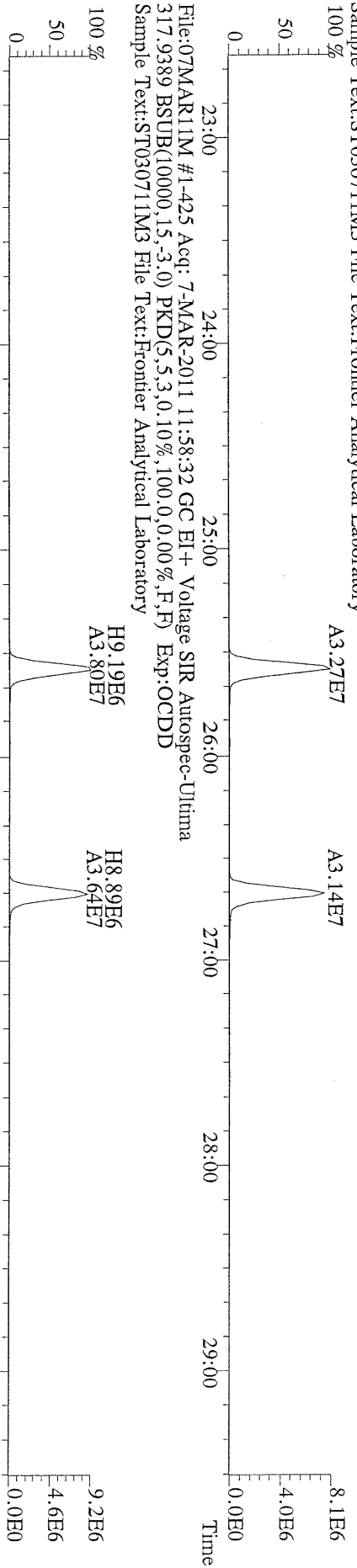
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454.9728 F:5 Exp:OCDD
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100 % A8:15 48:46 49:05 49:44 50:09 50:26 50:55 51:20 51:48 52:17



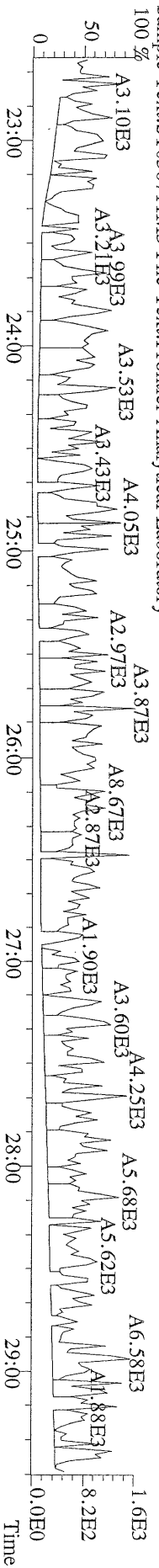
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303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
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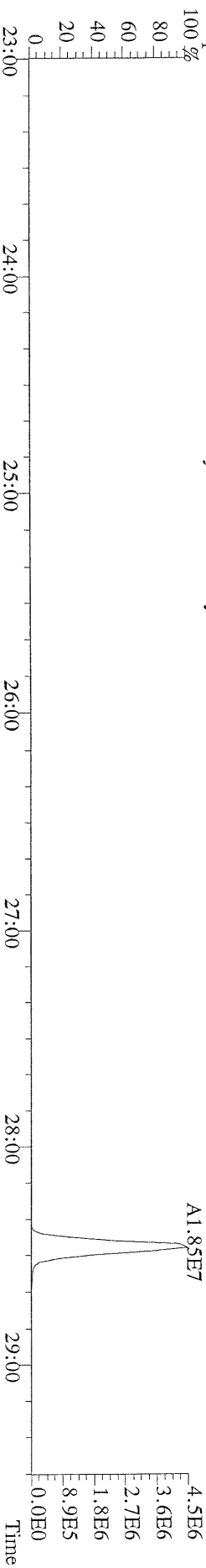
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315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
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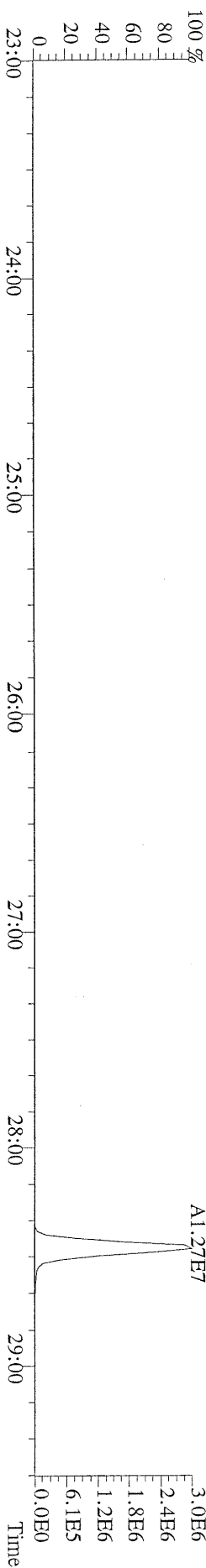
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375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



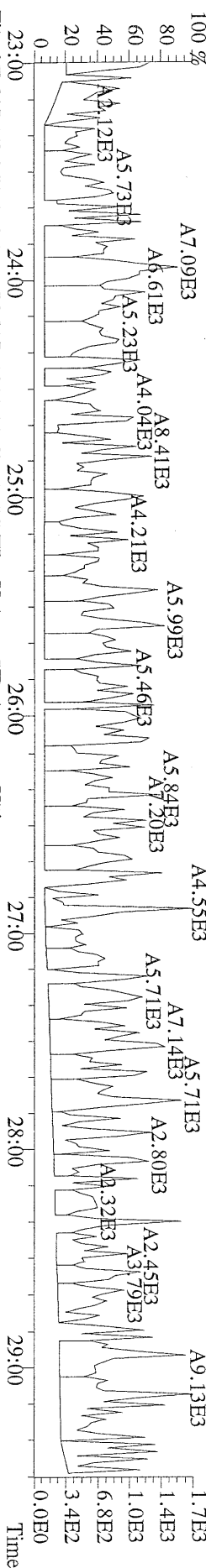
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 339.8597 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



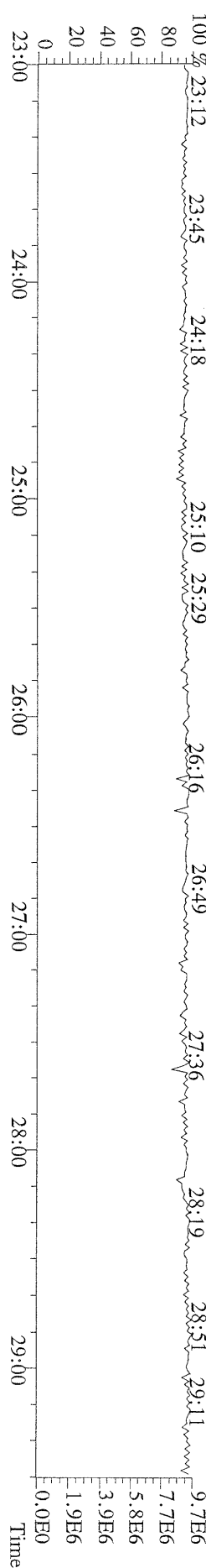
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 341.8568 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



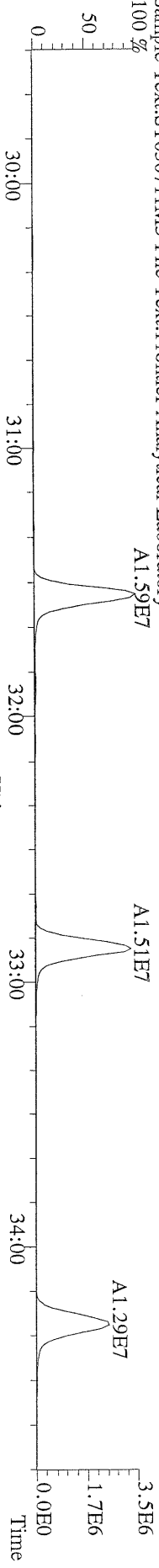
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 409.7974 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
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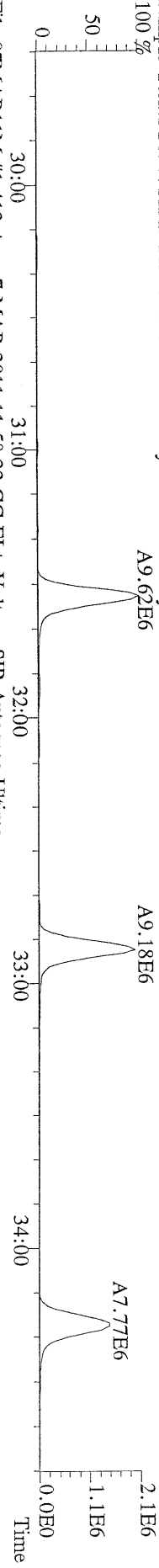
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



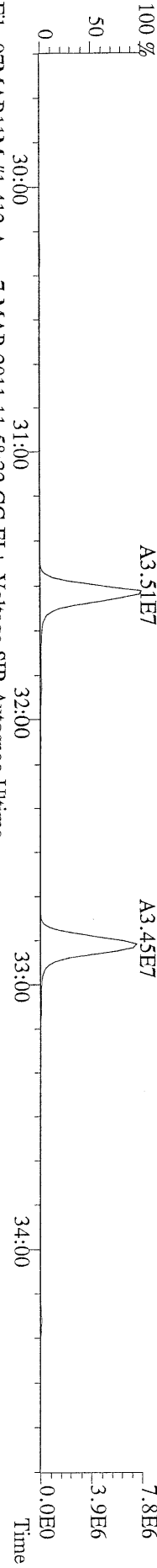
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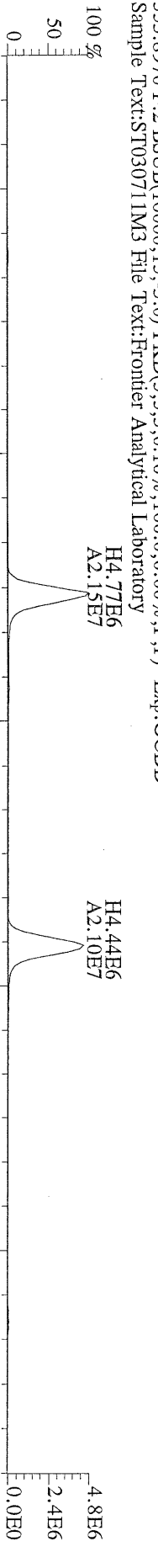
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



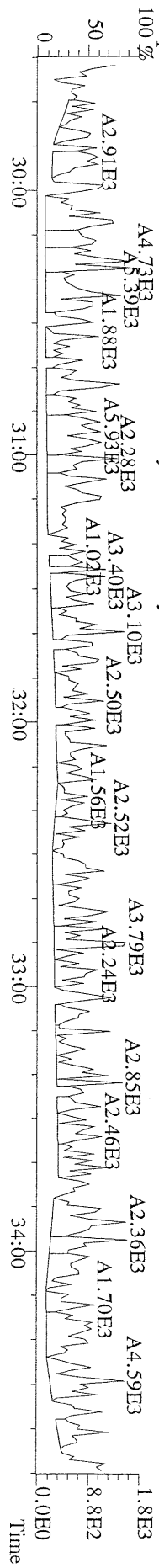
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 351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
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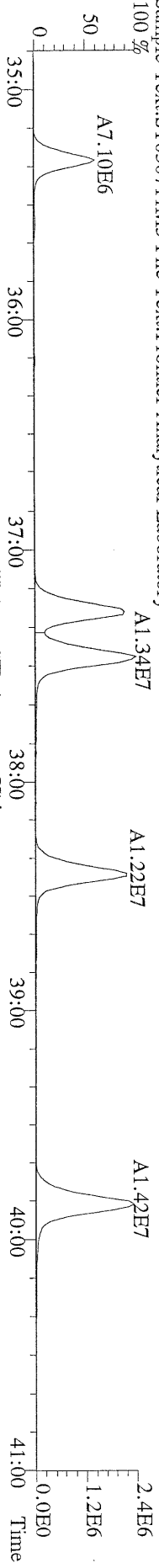
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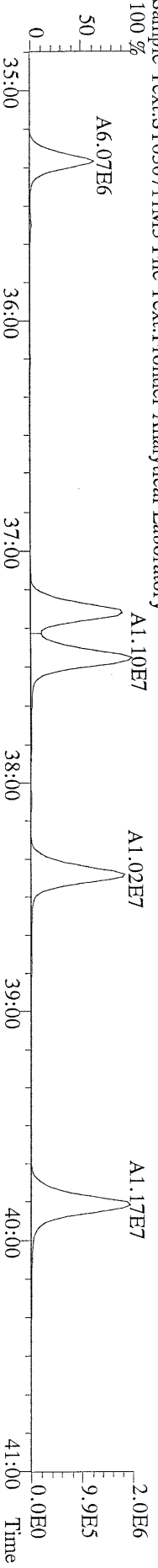
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



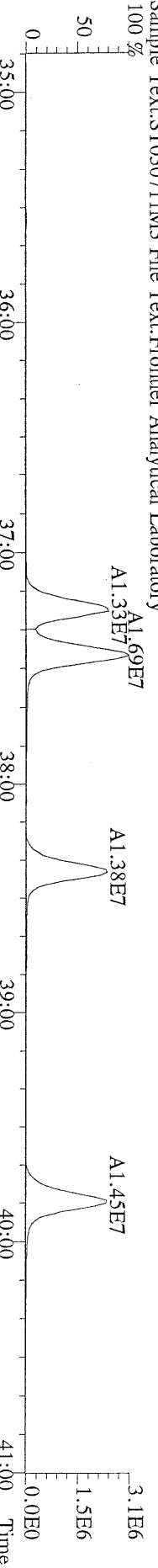
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 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



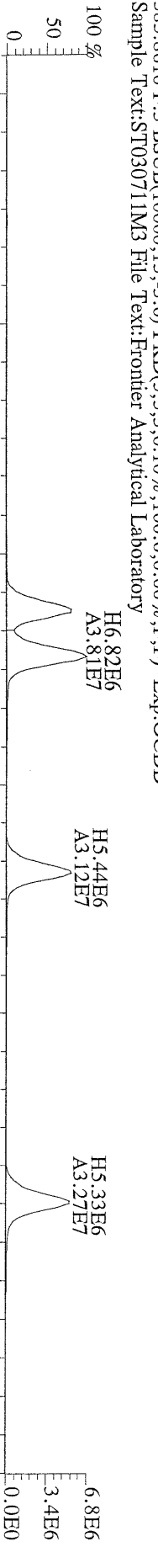
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 375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



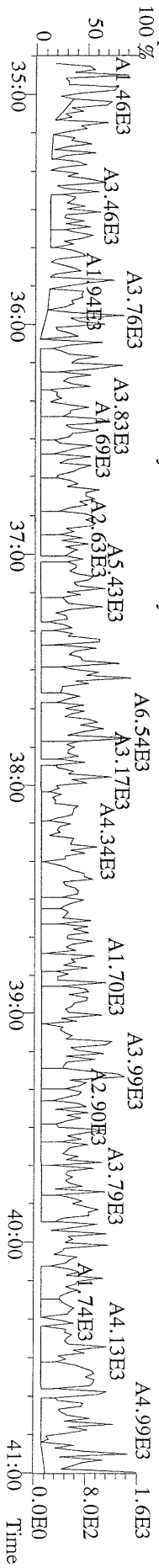
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 383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



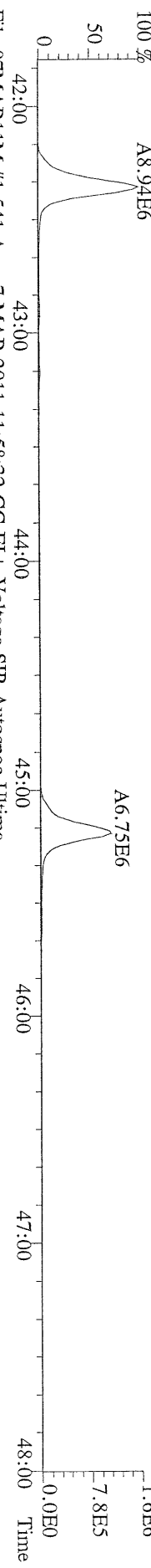
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 385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
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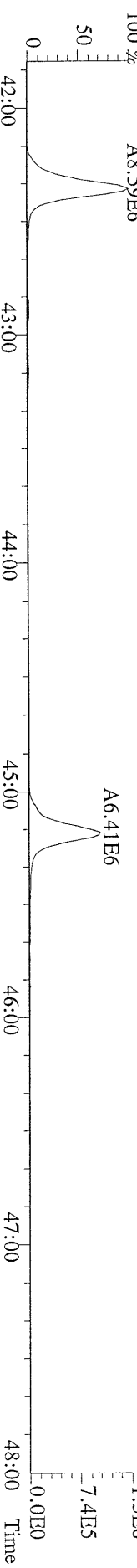
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 445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



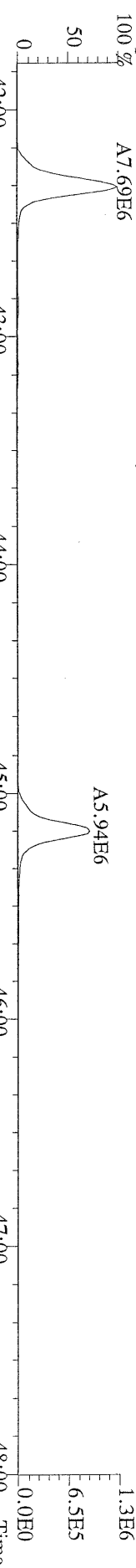
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 407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



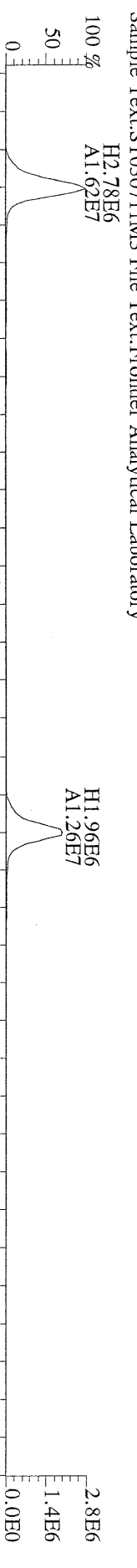
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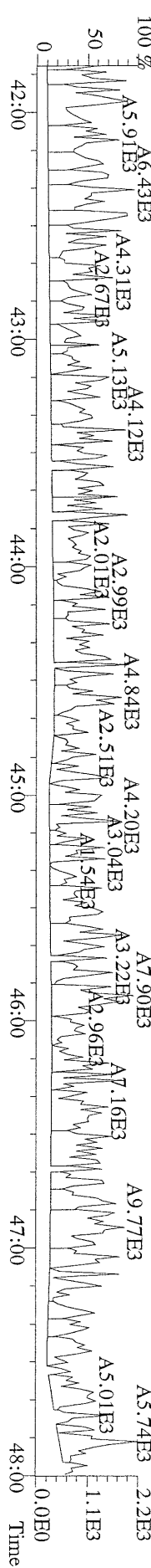
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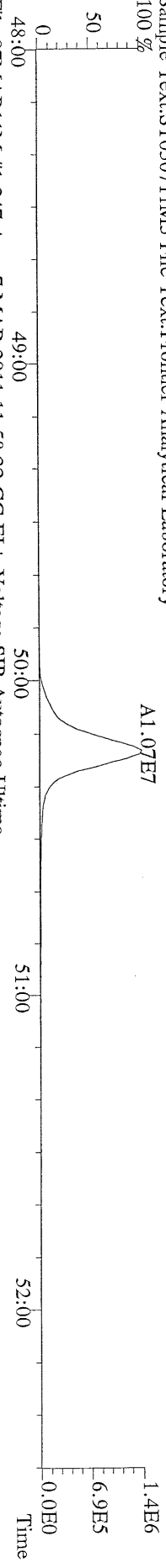
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



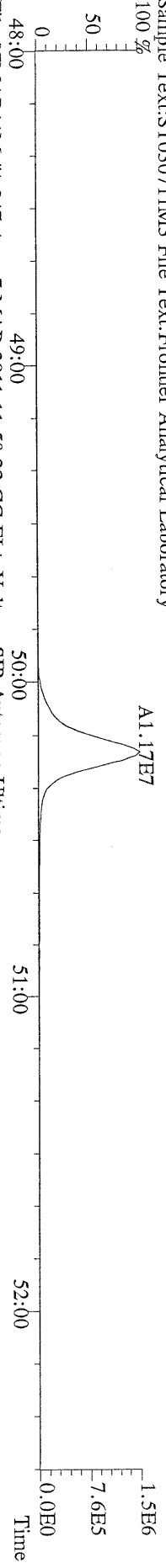
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



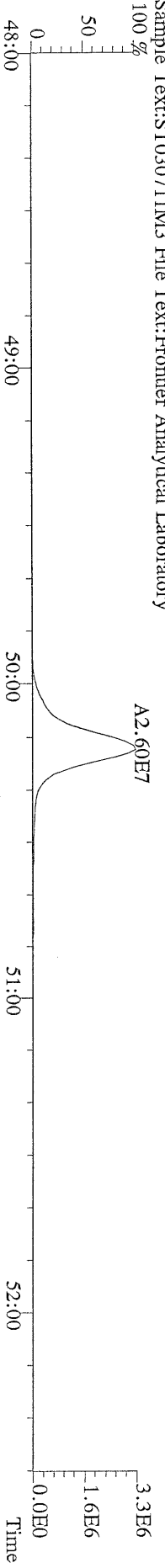
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



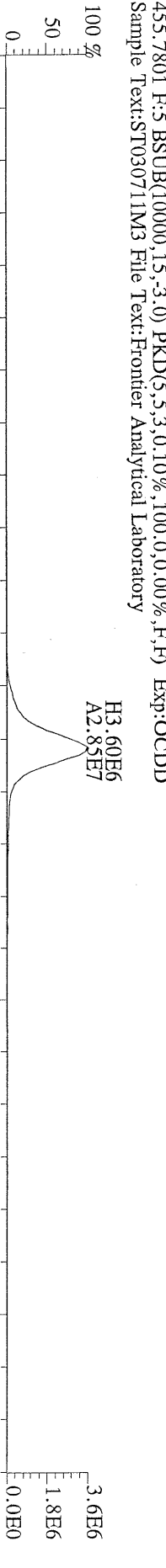
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



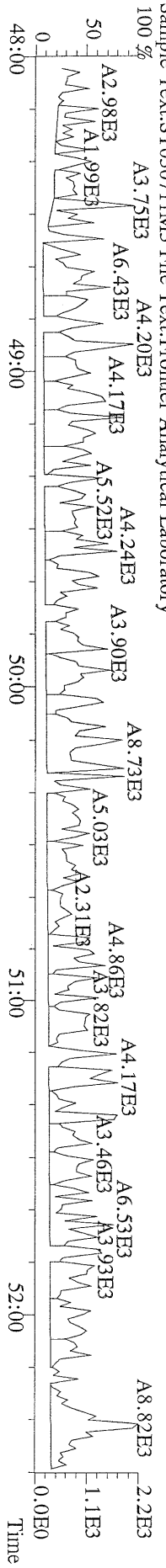
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 453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



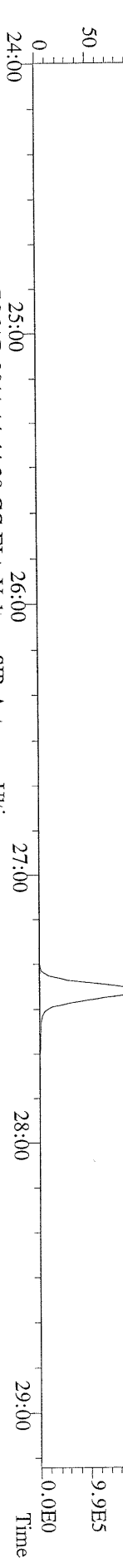
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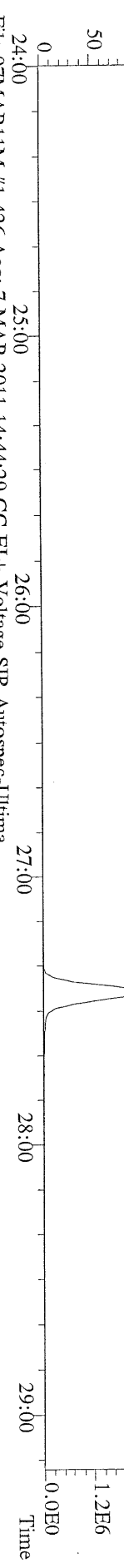
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



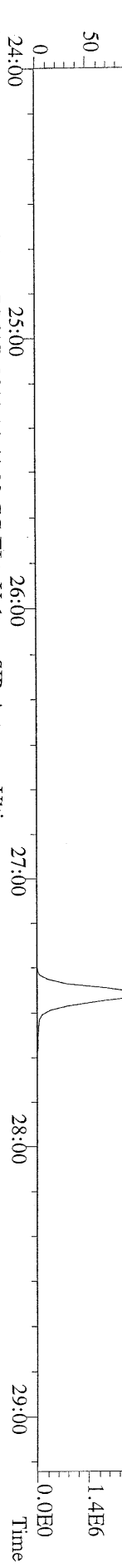
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319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



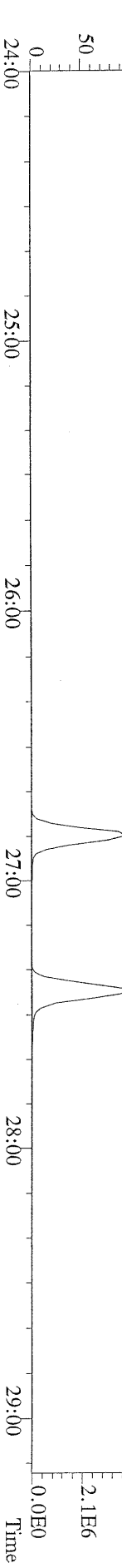
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321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



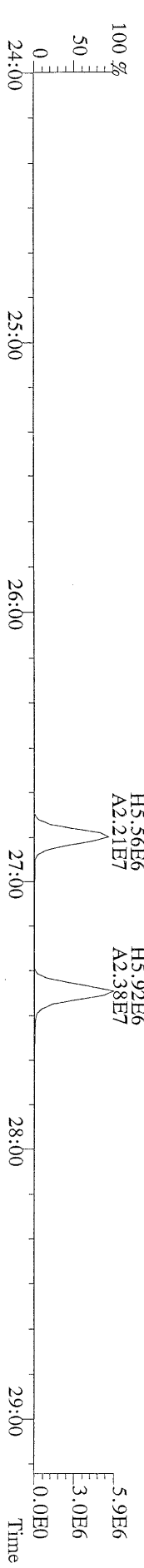
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327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



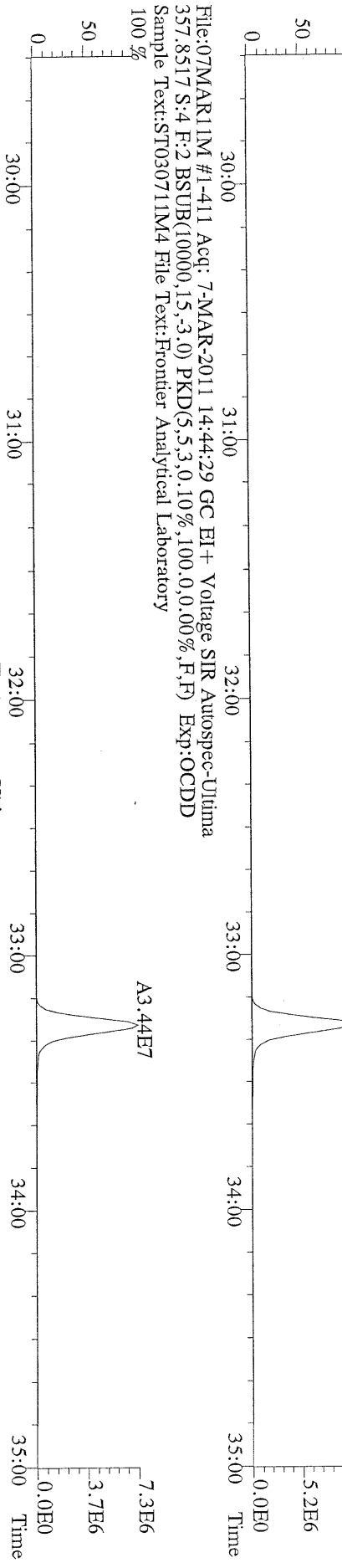
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331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



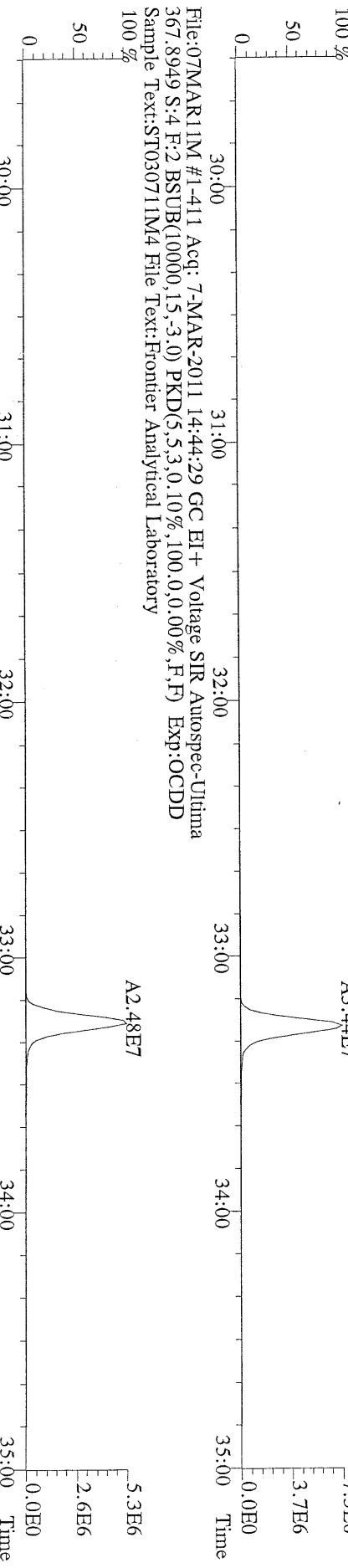
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333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
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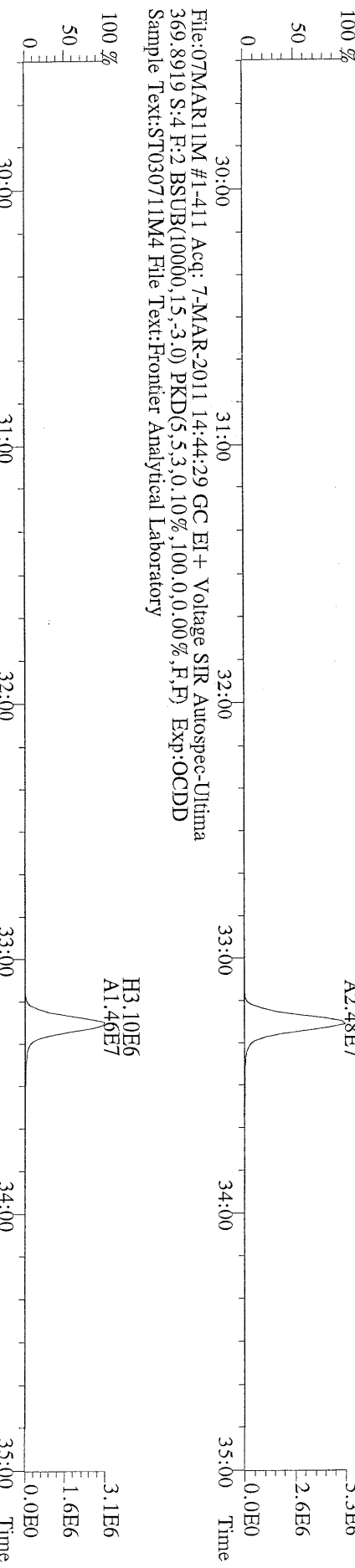
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355.8546 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory
100 %



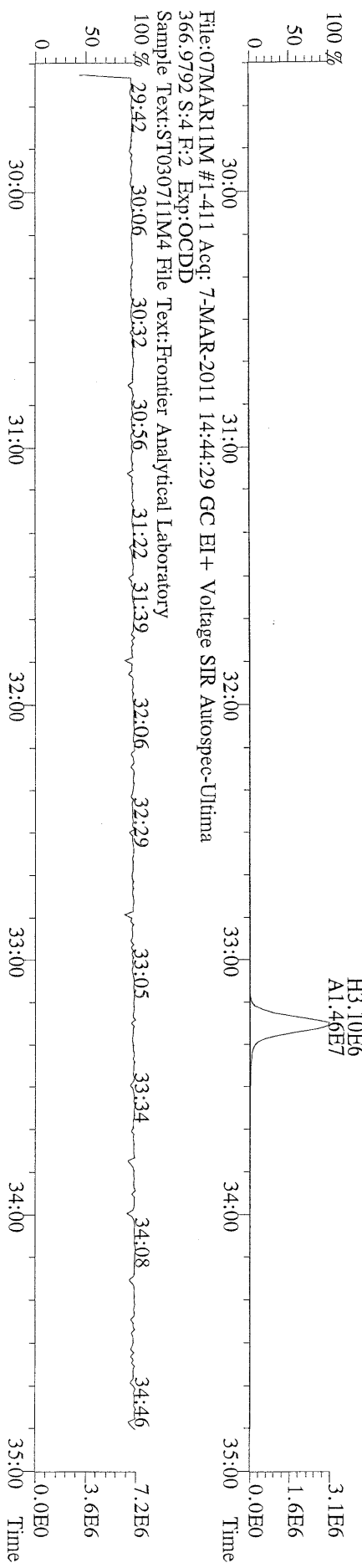
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357.8517 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory
100 %



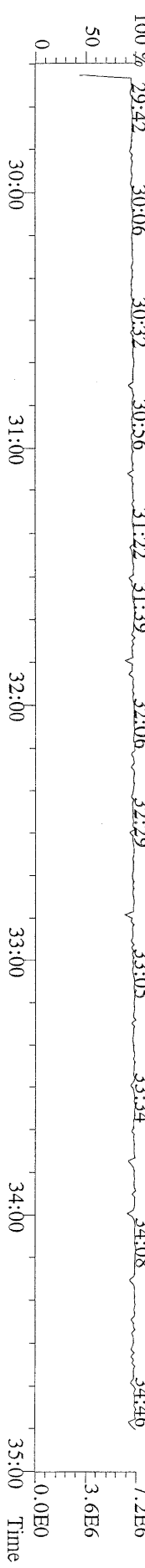
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367.8949 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory
100 %



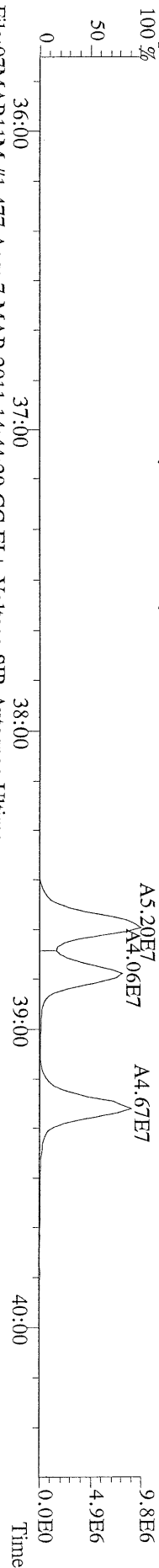
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369.8919 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



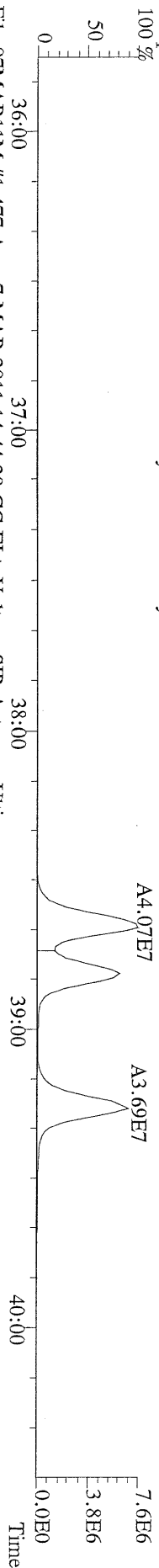
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366.9792 S:4 F:2 Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



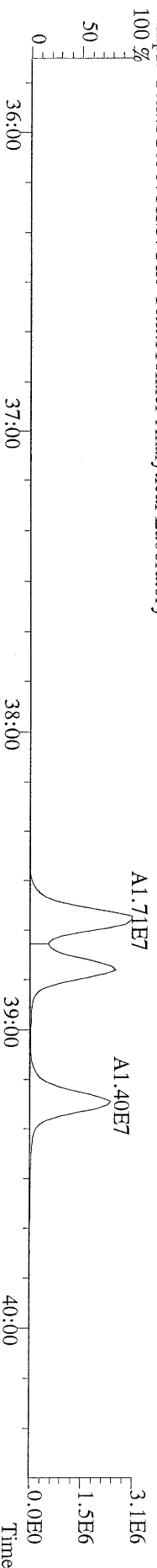
File:07MARI1M #1-477 Acq: 7-MAR-2011 14:44:29 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



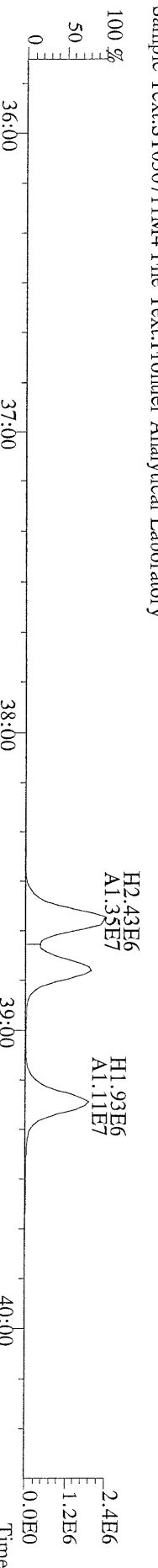
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 391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



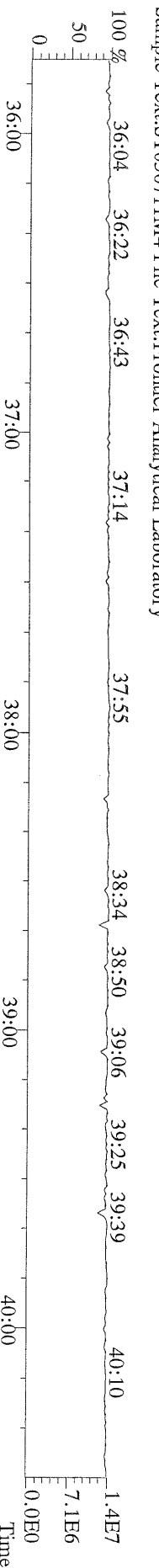
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 401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



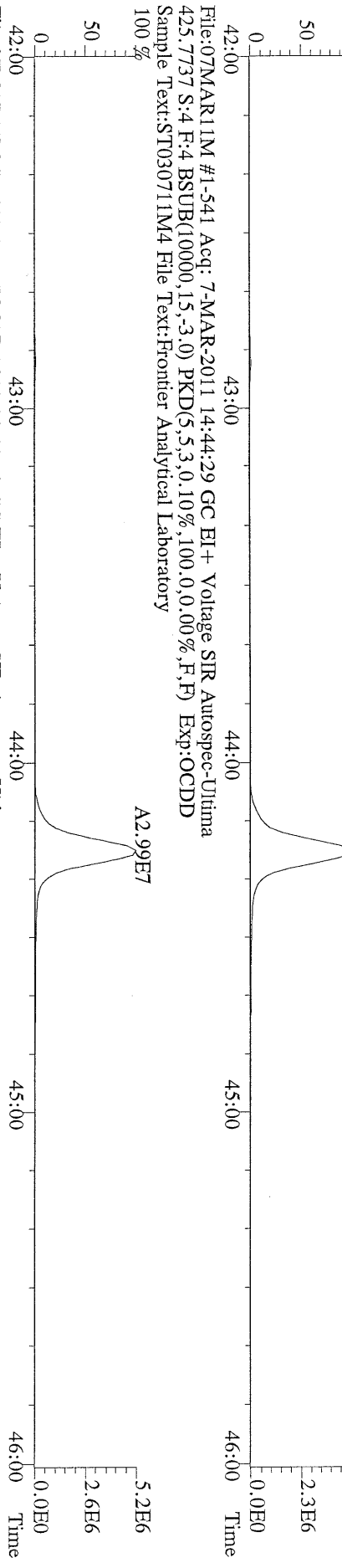
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 403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
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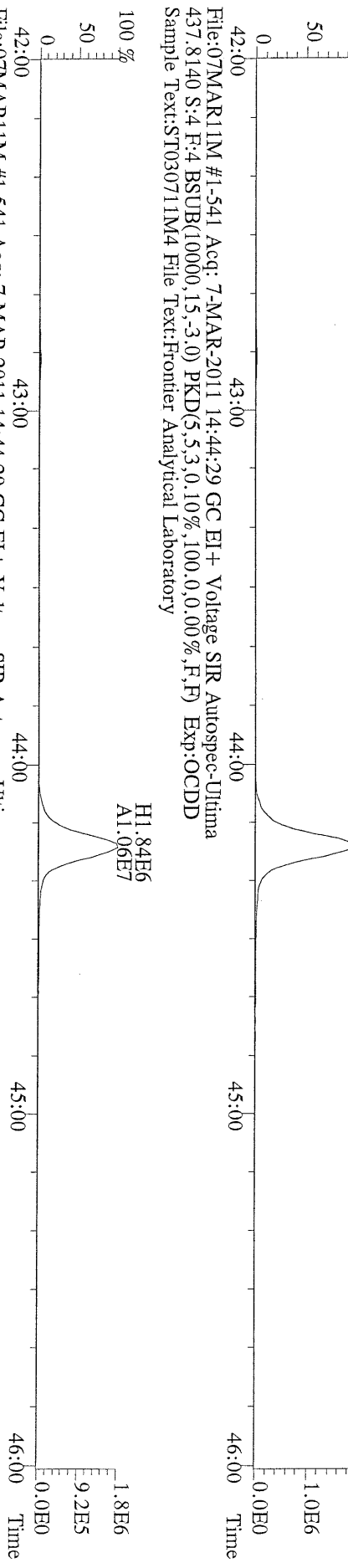
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 380.9760 S:4 F:3 Exp:OCDD
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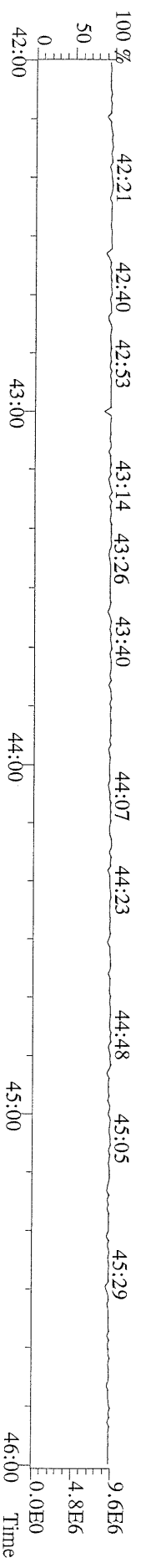
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423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory
100 %



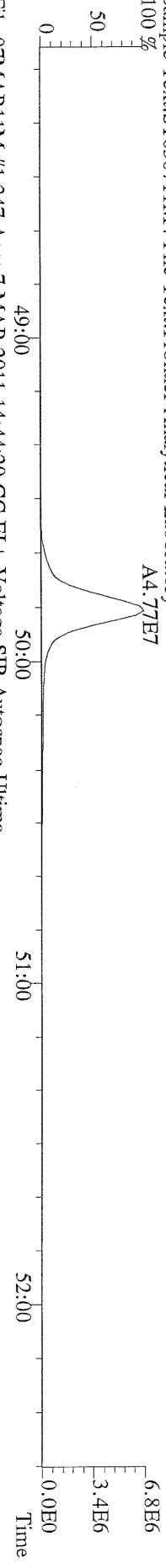
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435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory
100 %



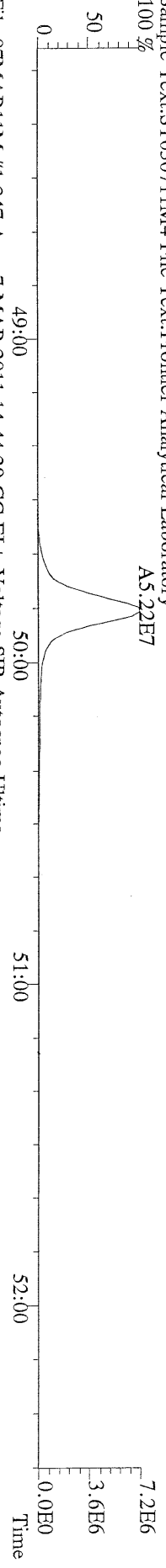
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Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



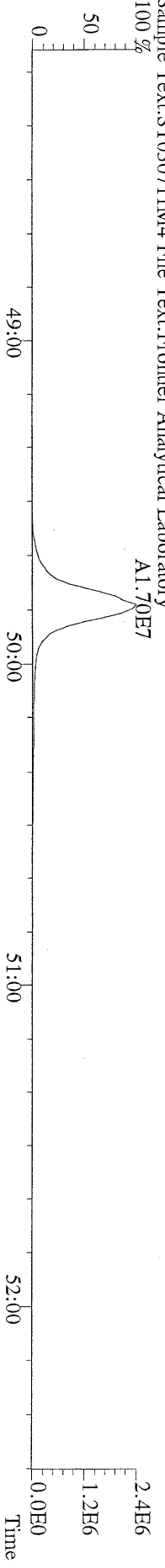
File:07MAR11M #1-347 Acq: 7-MAR-2011 14:44:29 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



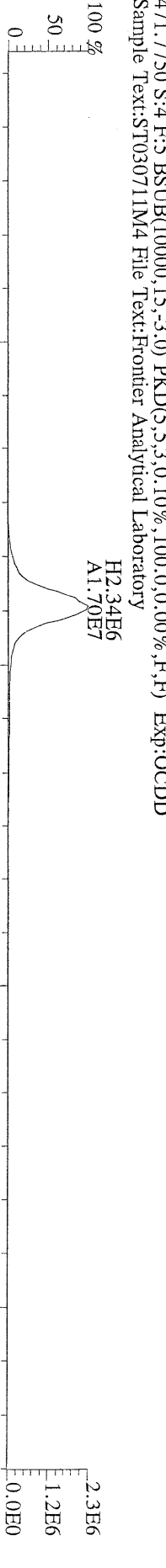
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459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



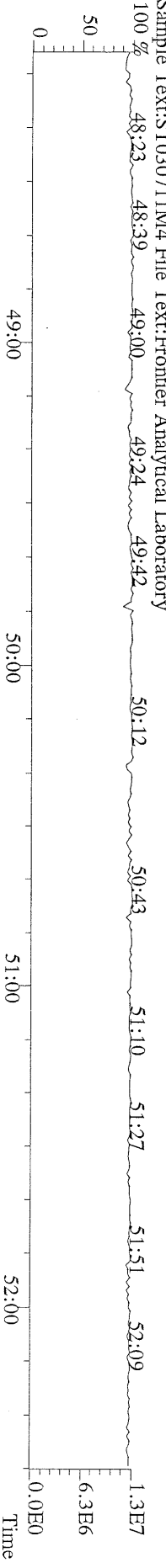
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469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



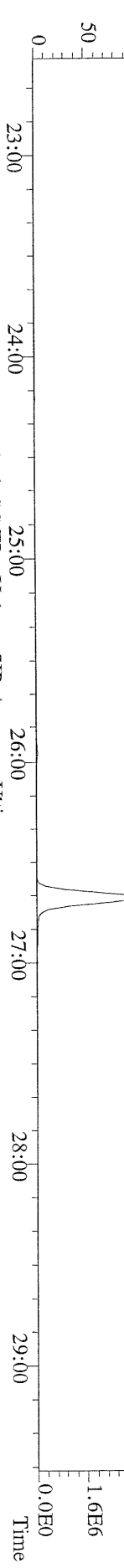
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471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



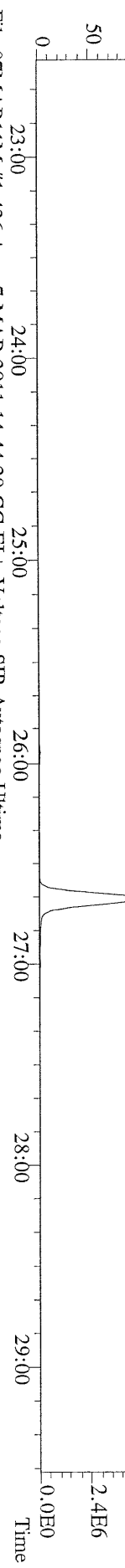
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Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



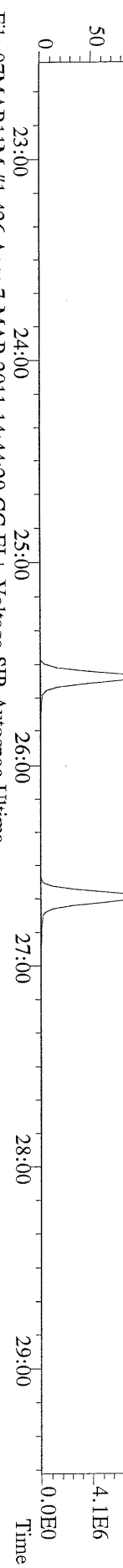
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 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



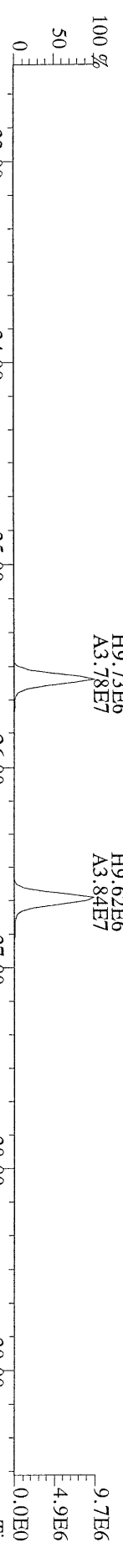
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 305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



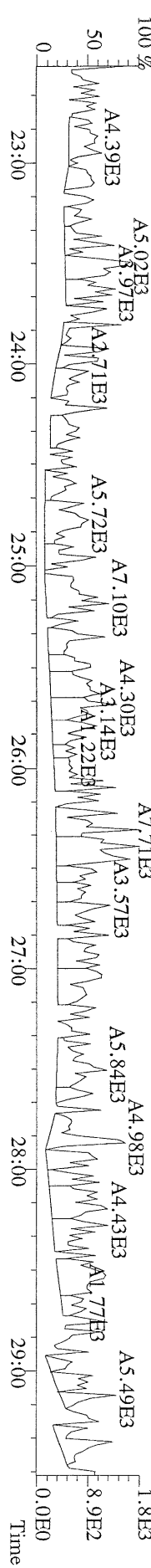
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 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



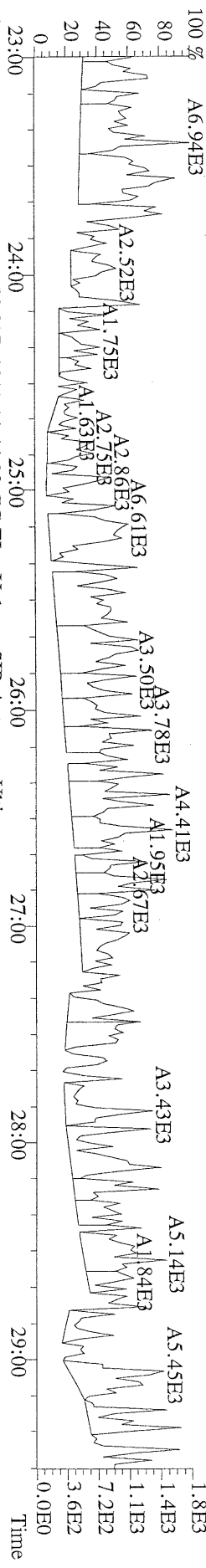
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 317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



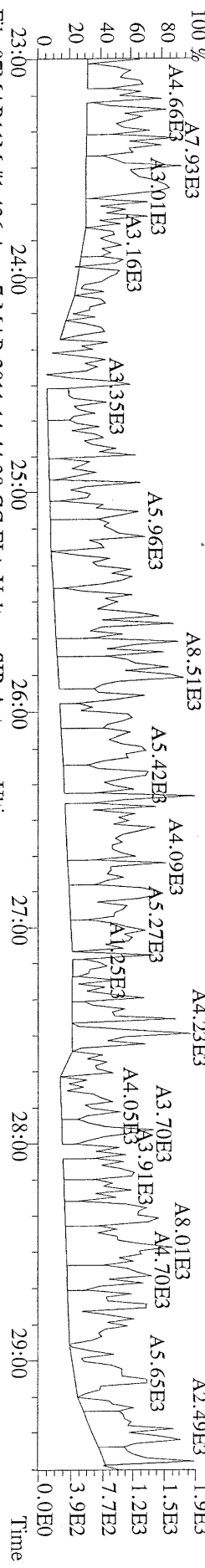
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 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



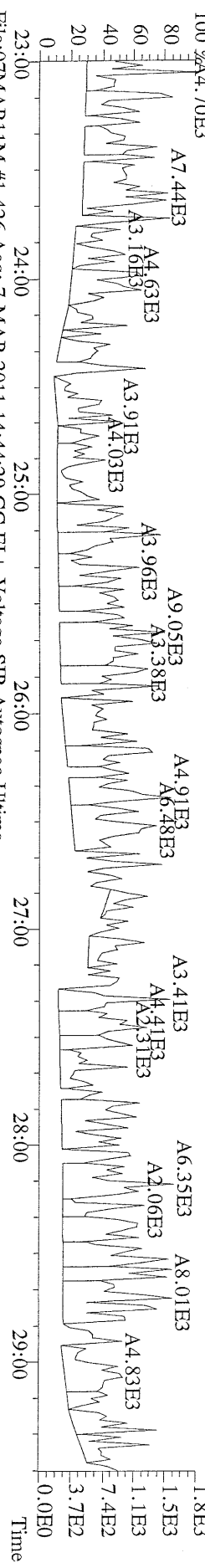
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 339.8597 S:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



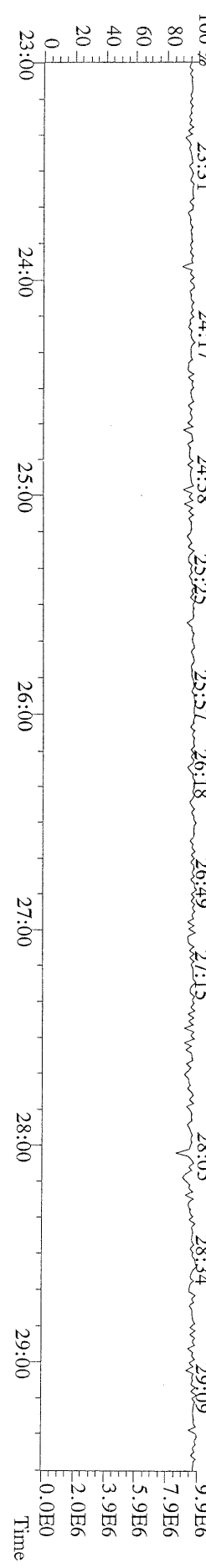
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 341.8568 S:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



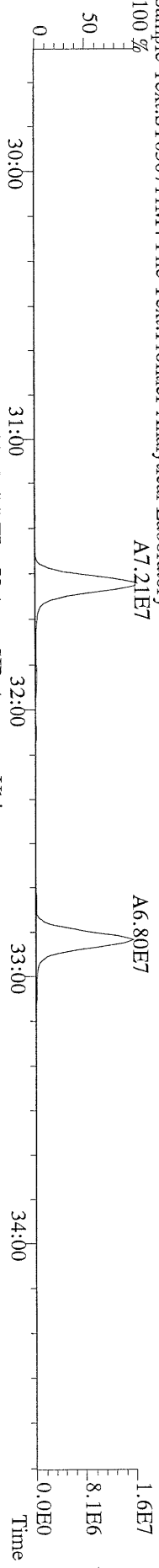
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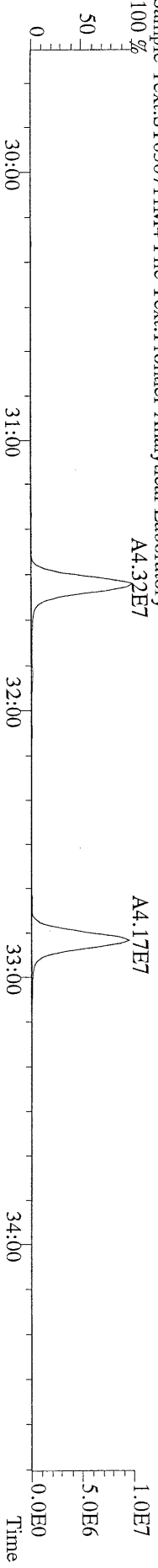
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 316.9824 S:4 Exp:OCDD
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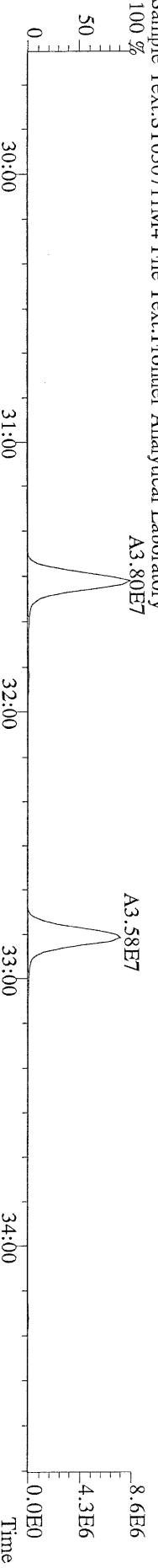
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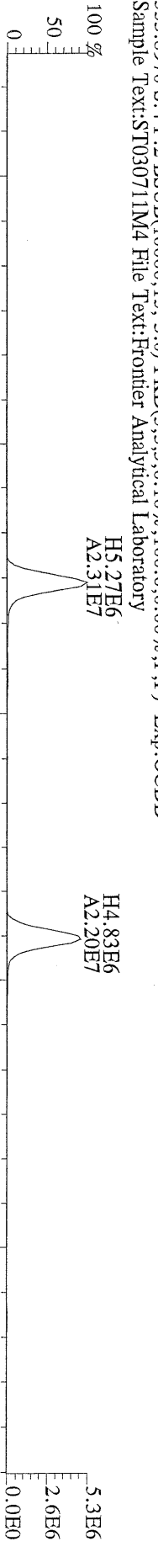
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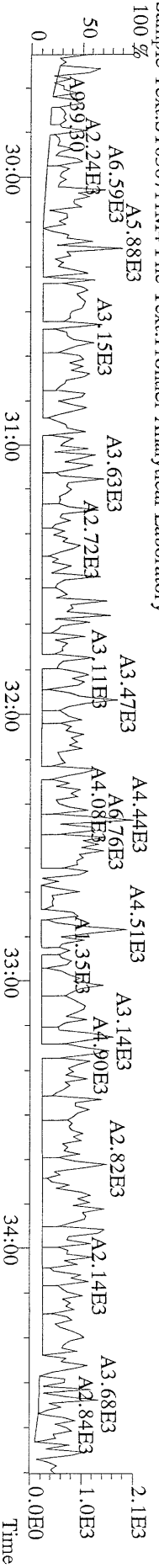
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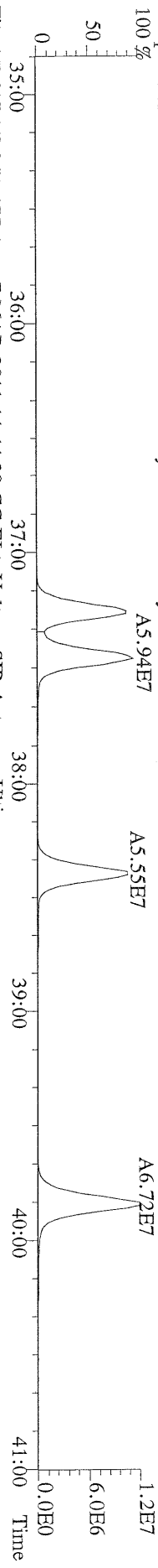
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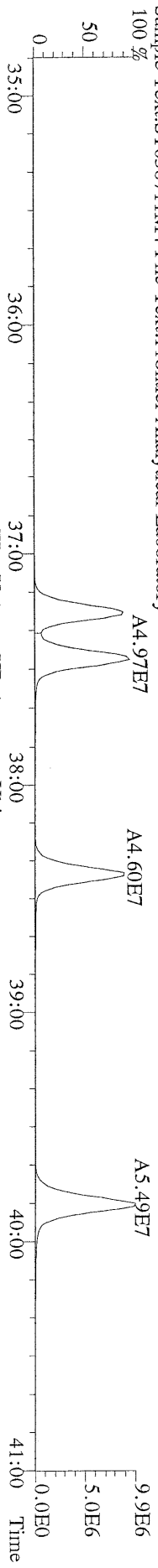
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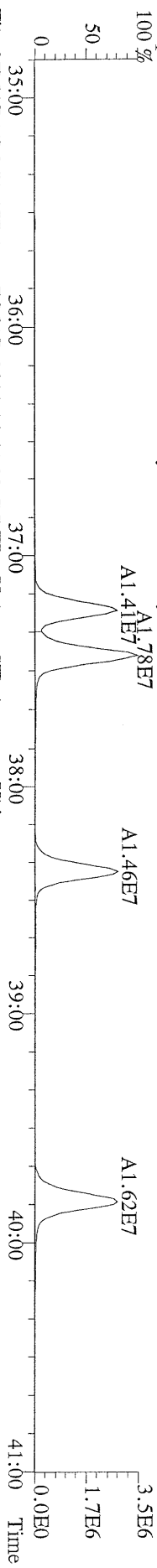
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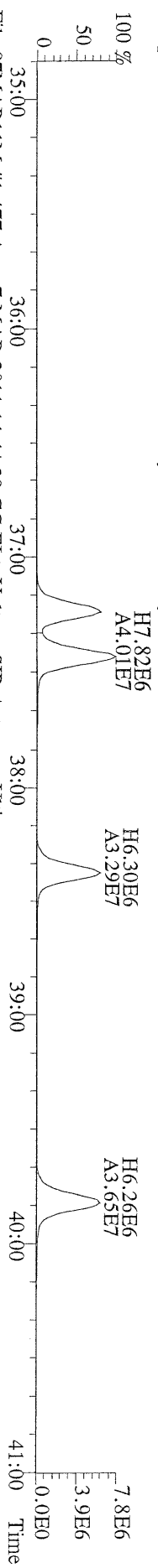
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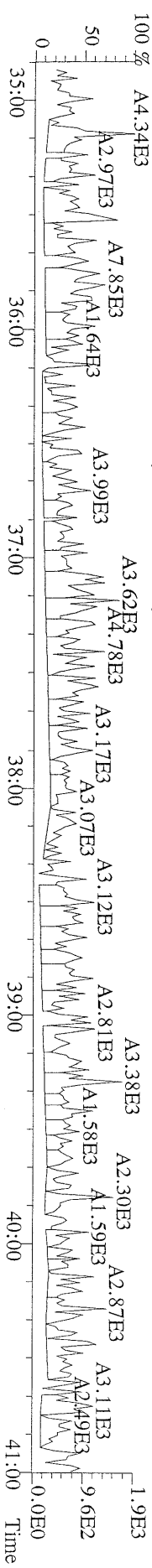
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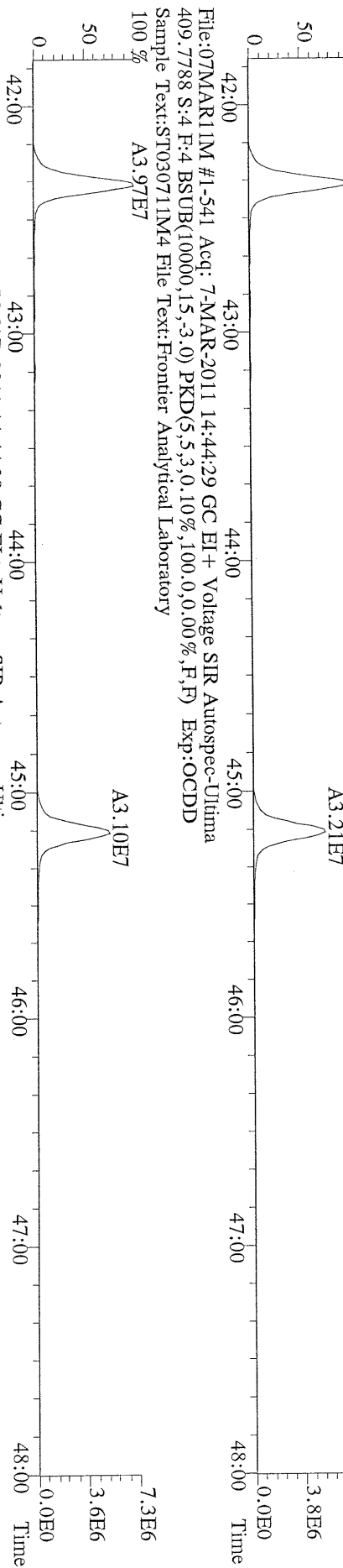
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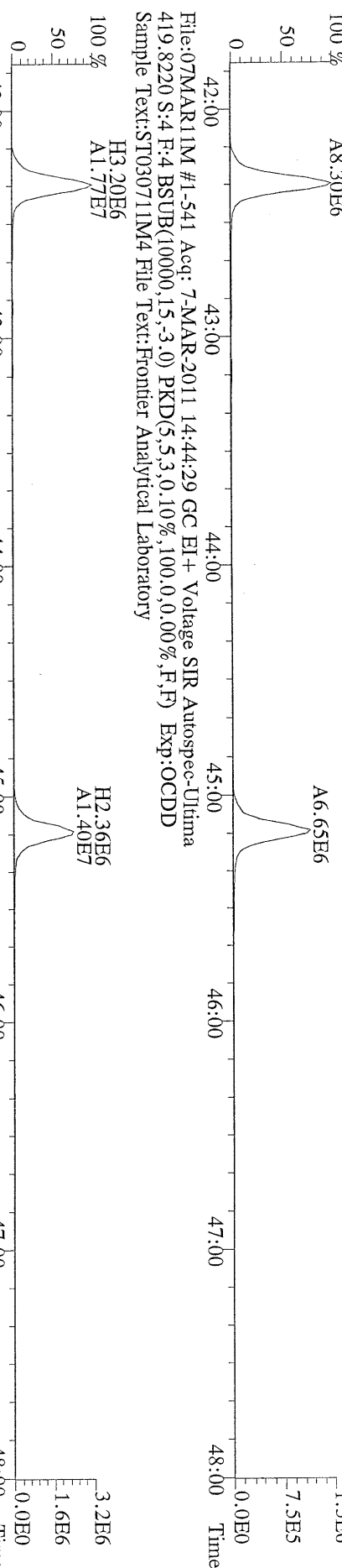
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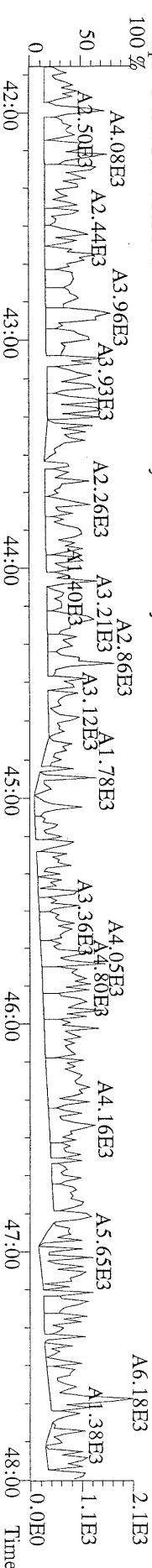
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100 %



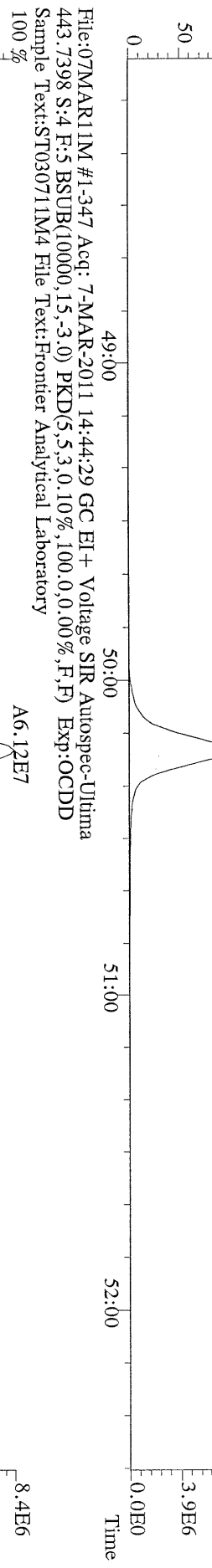
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Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory
100 %



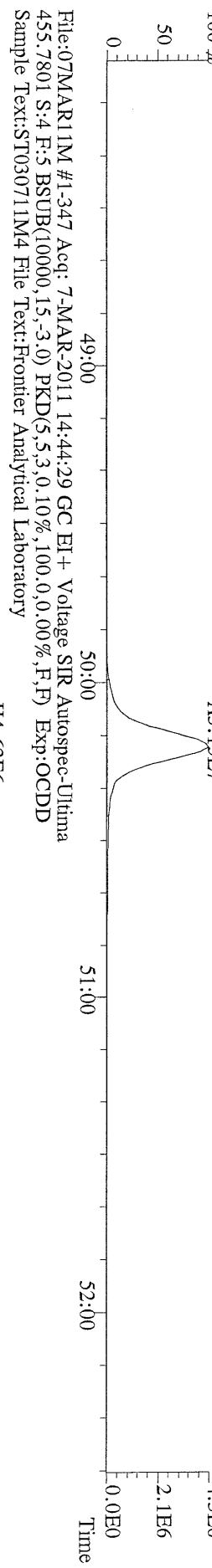
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100 %



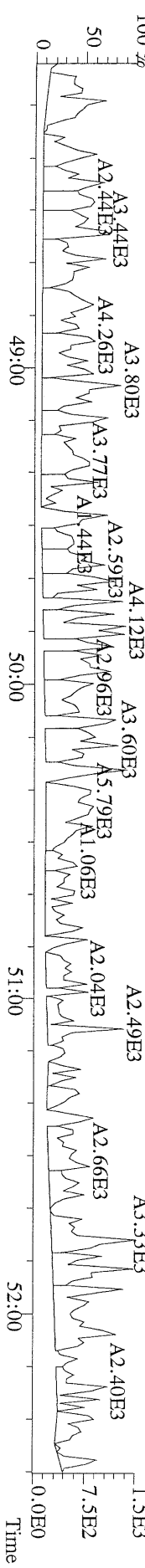
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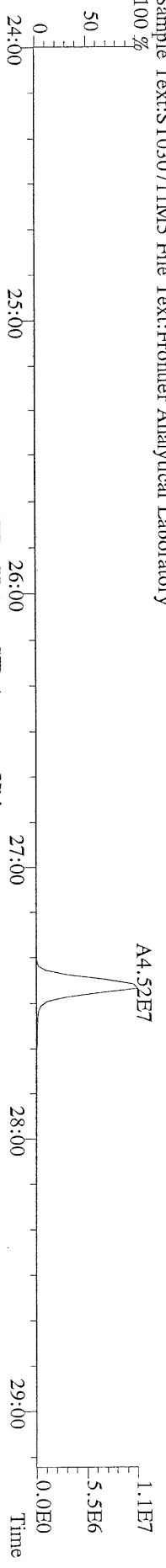
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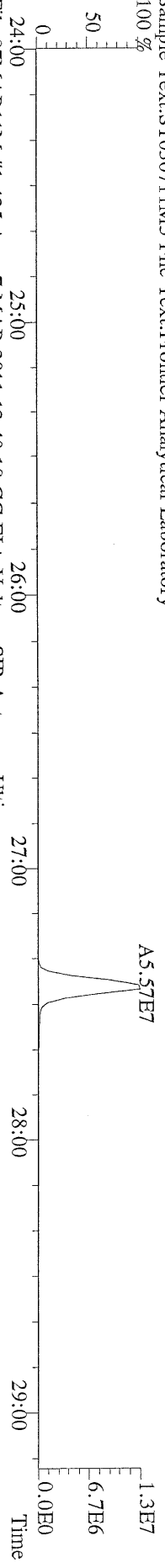
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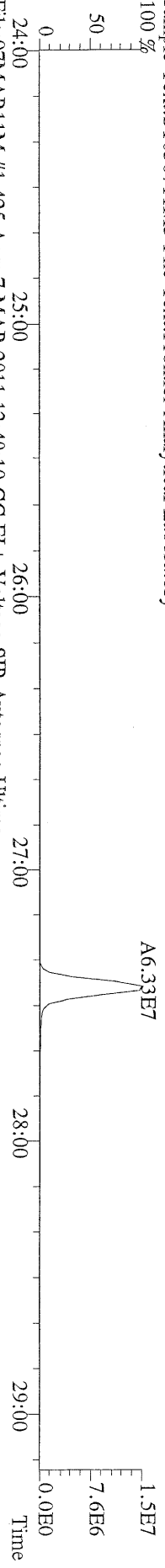
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100 %



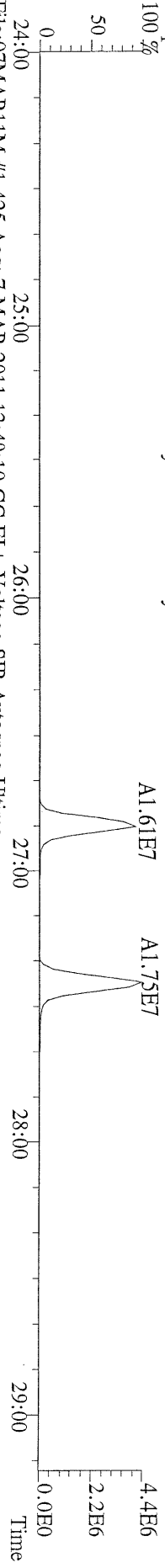
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100 %



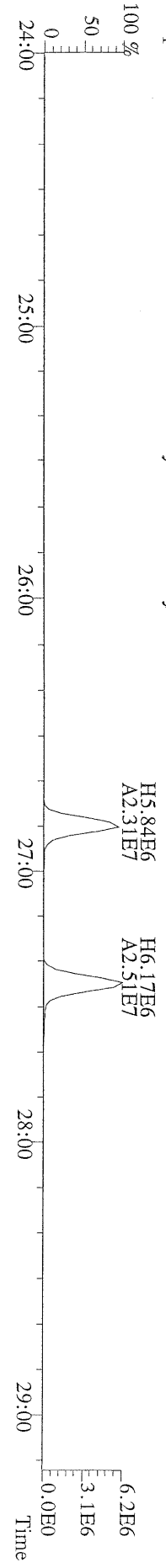
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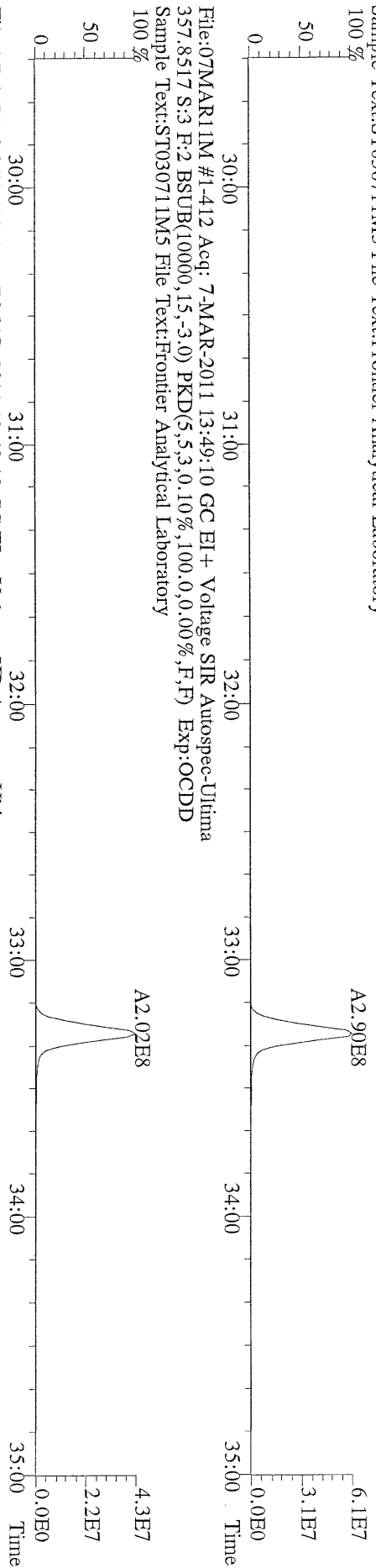
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100 %



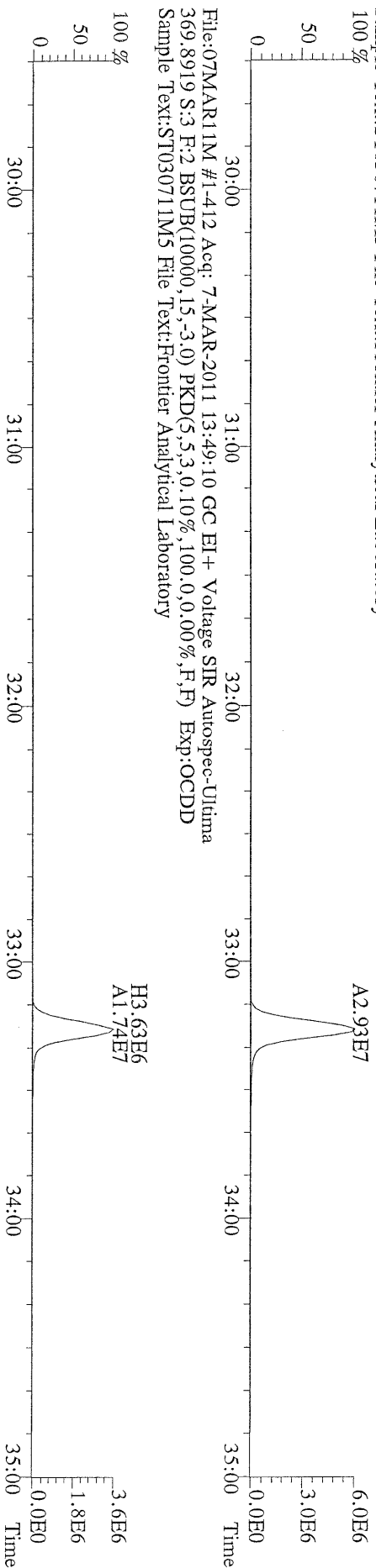
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Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



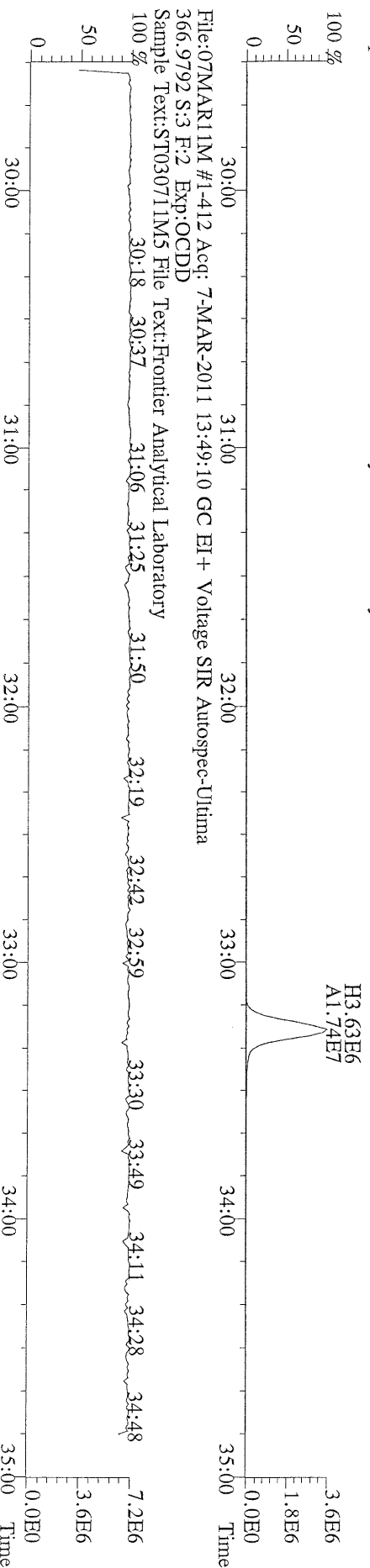
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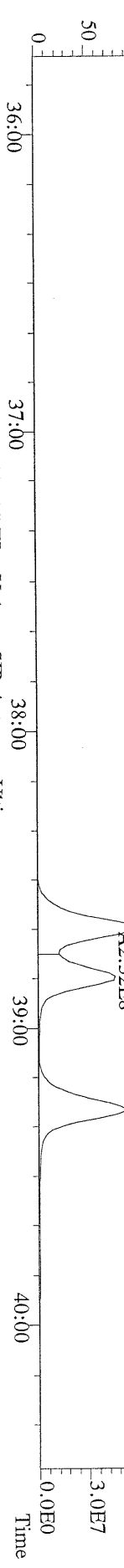
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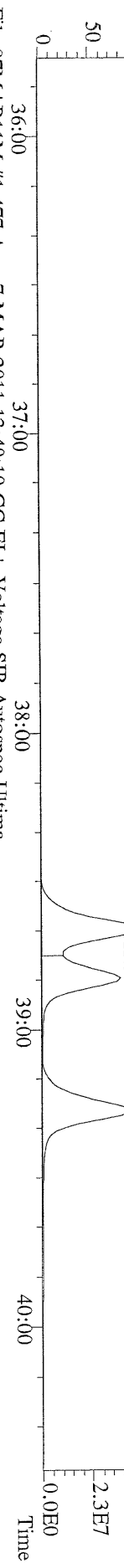
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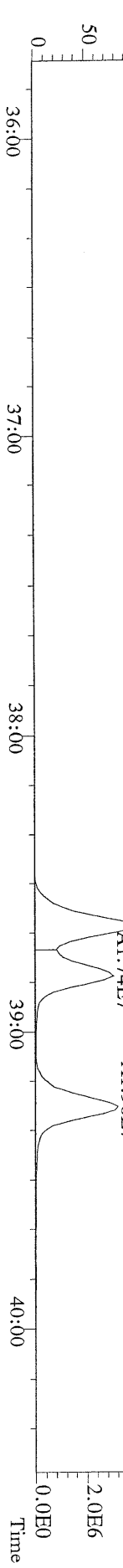
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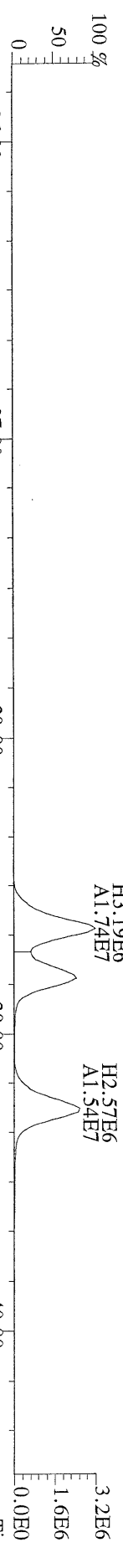
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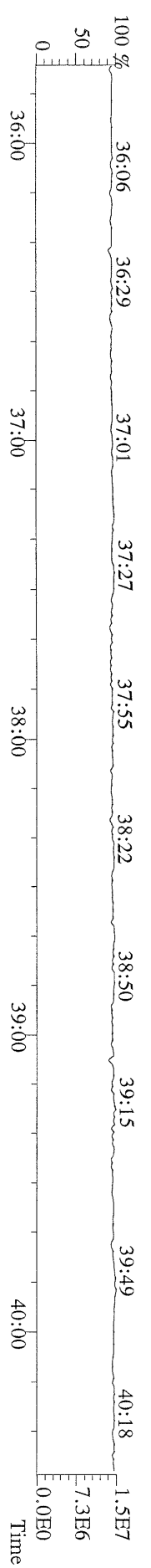
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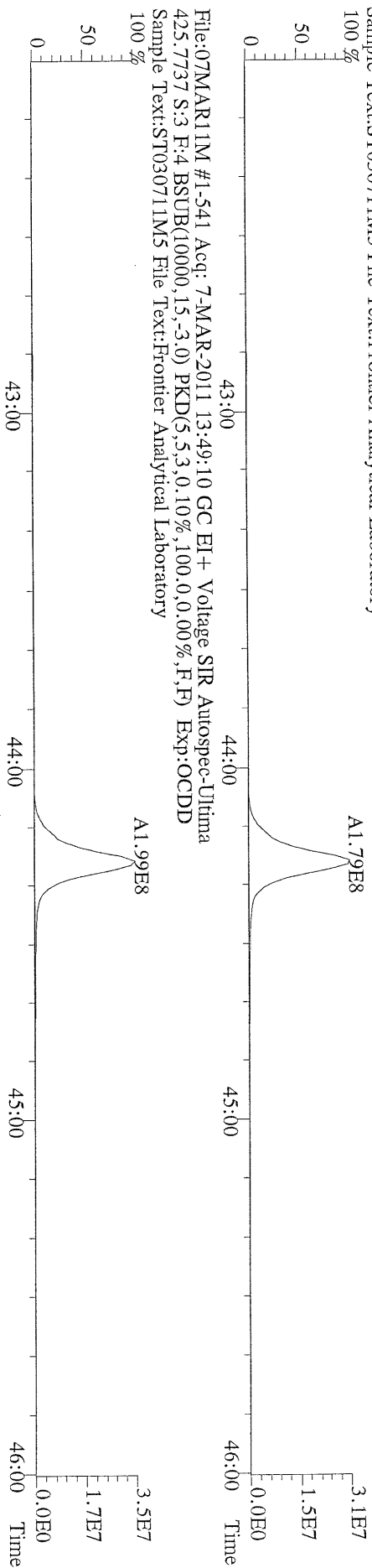
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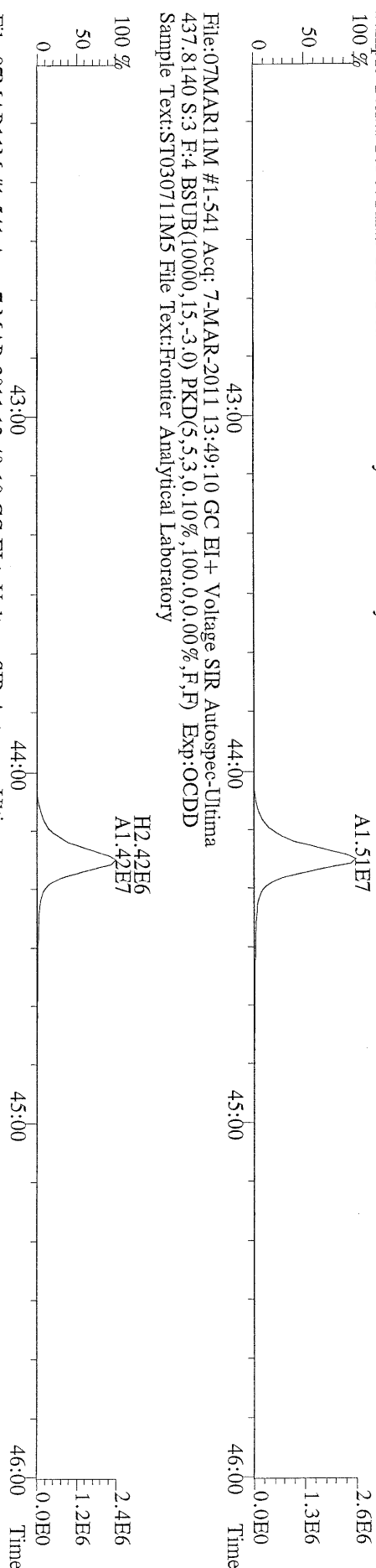
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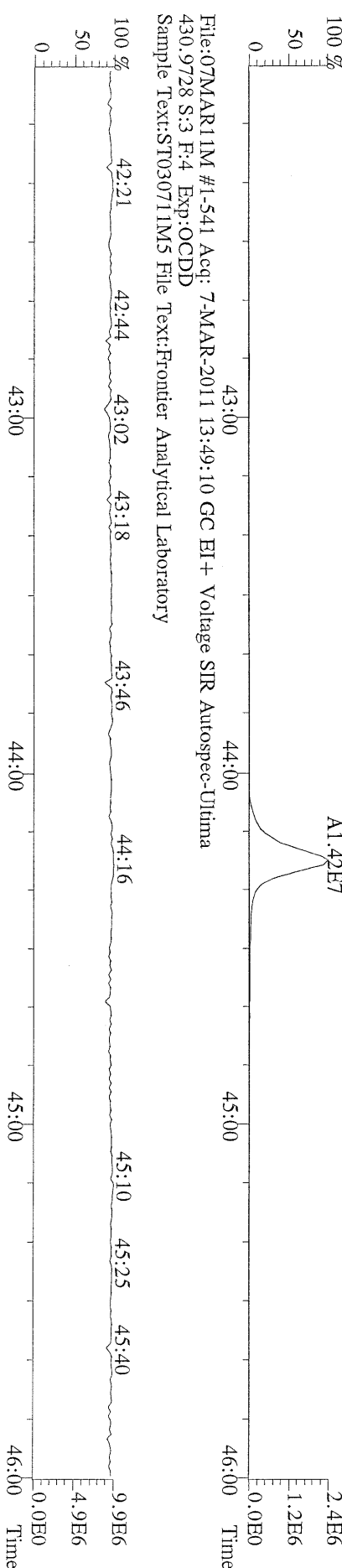
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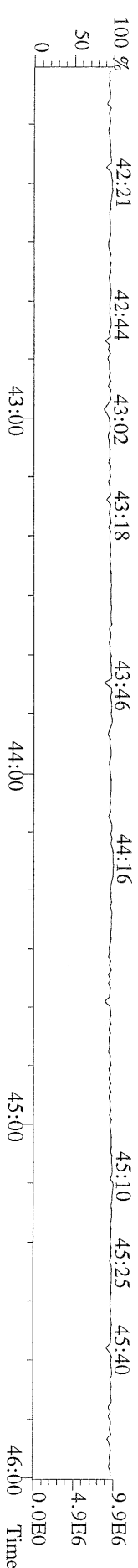
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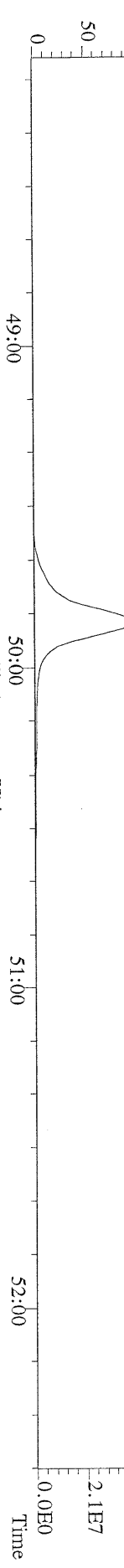
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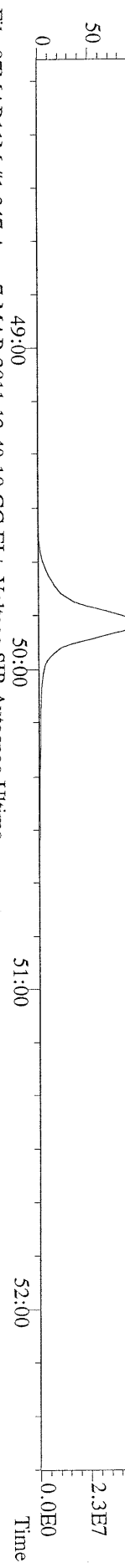
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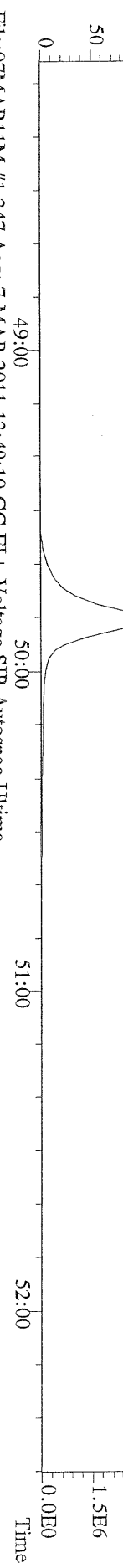
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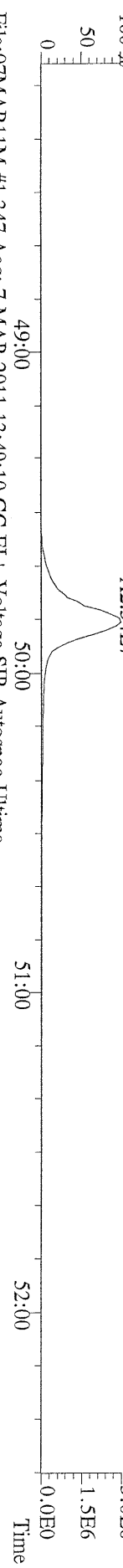
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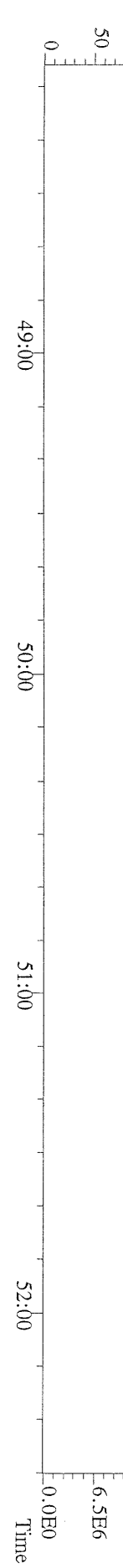
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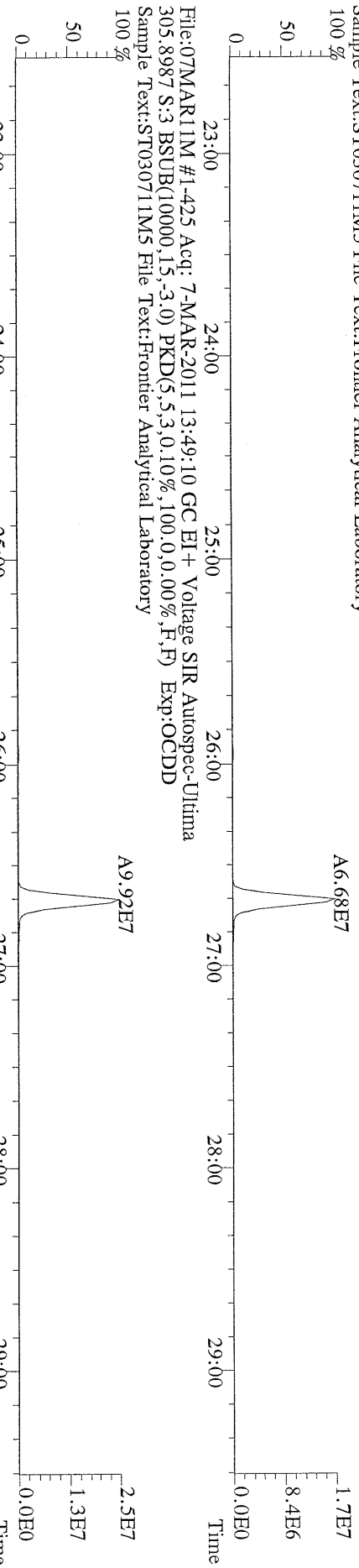
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Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



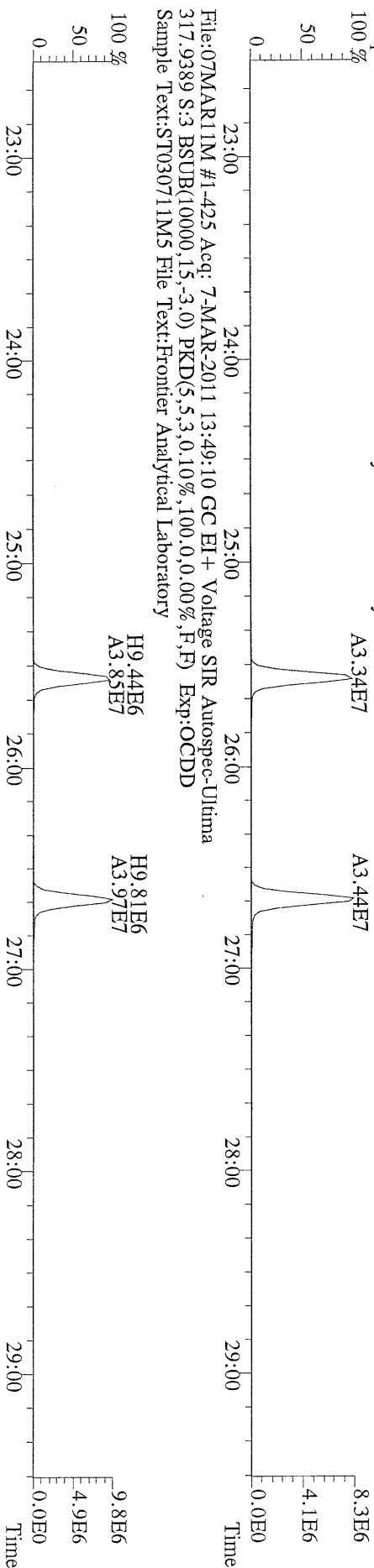
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Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



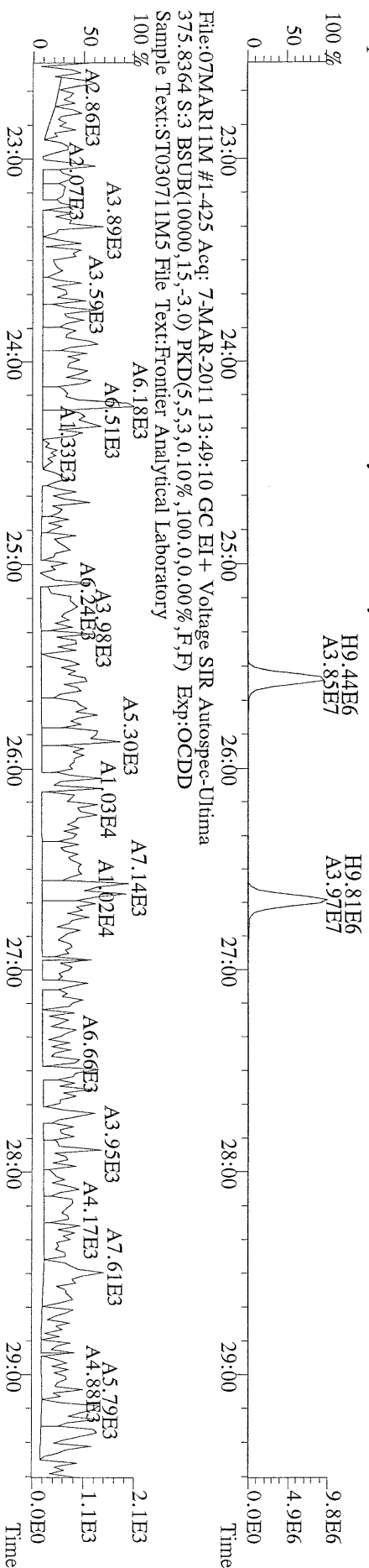
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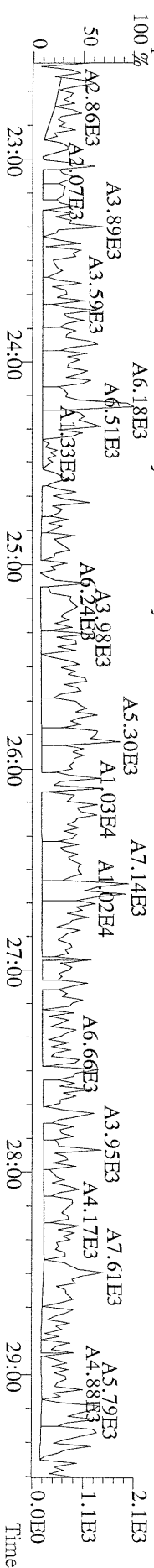
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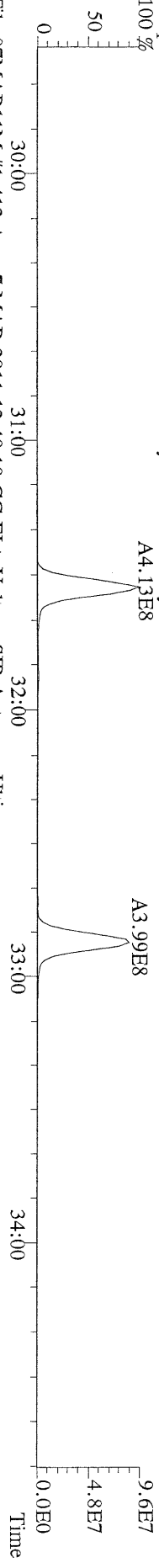
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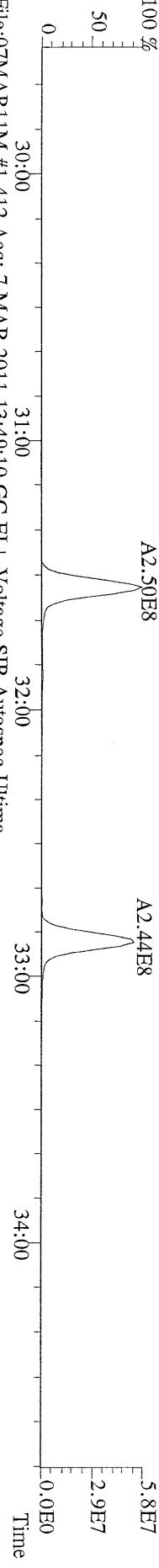
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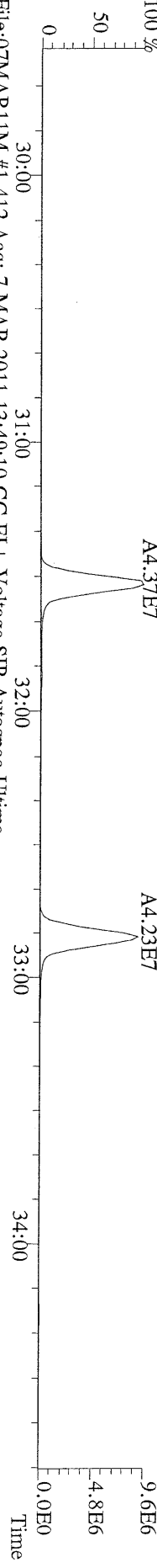
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 339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory
 100 %



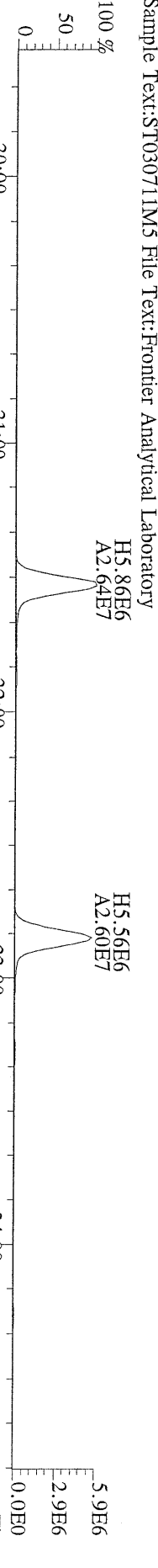
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 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory
 100 %



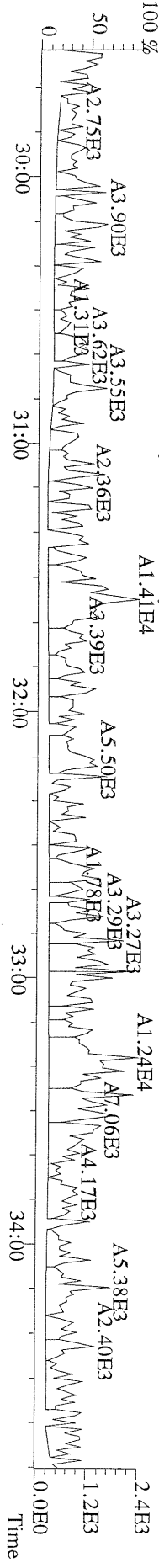
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 351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory
 100 %



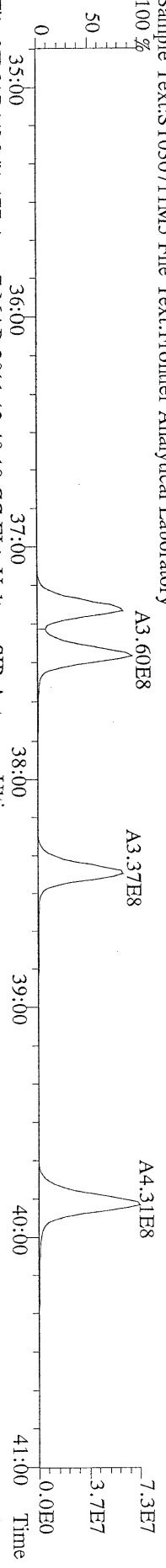
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 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



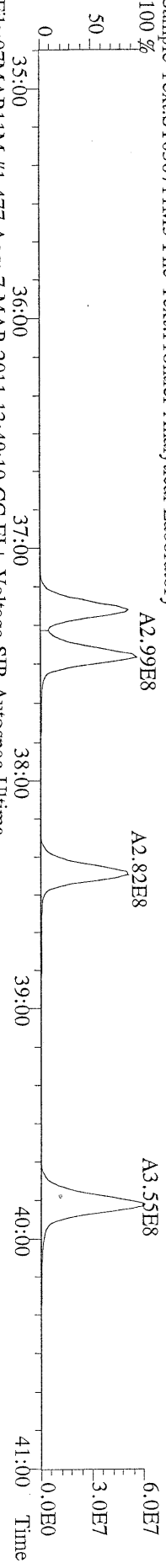
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 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory
 100 %



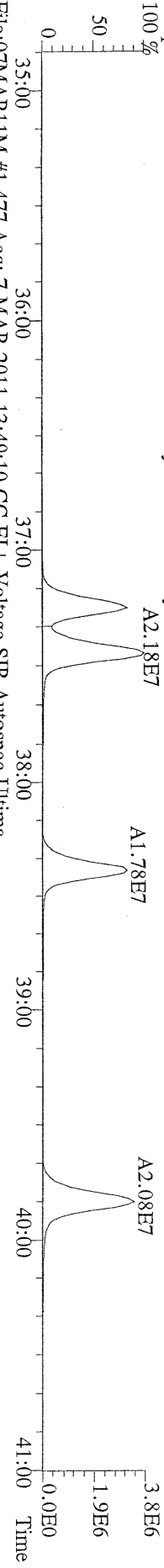
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 373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



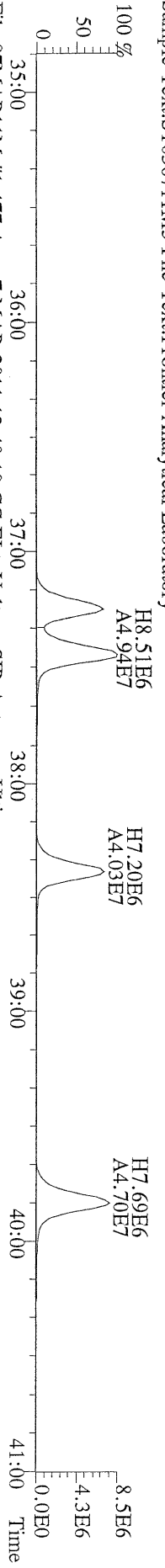
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 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



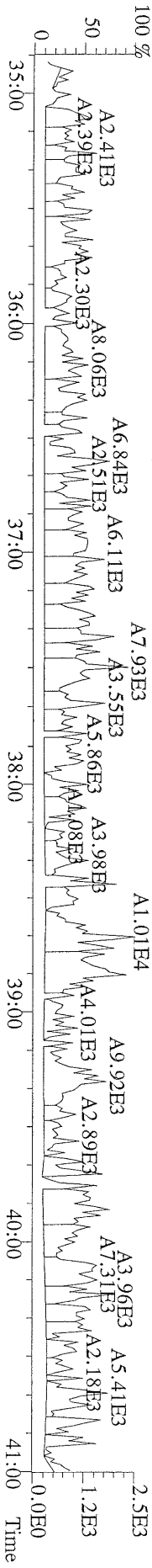
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 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



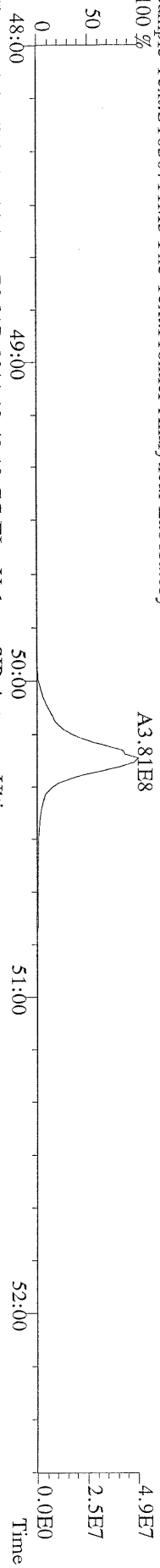
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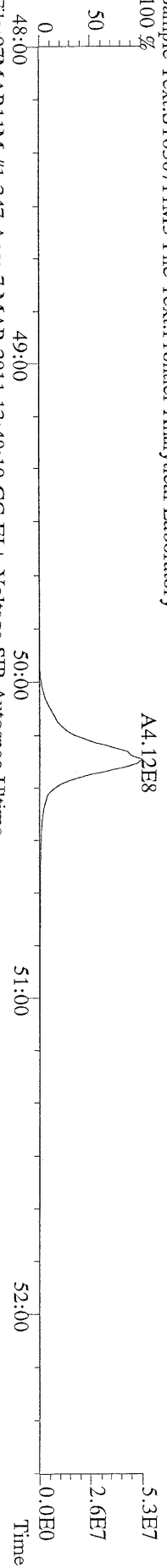
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 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



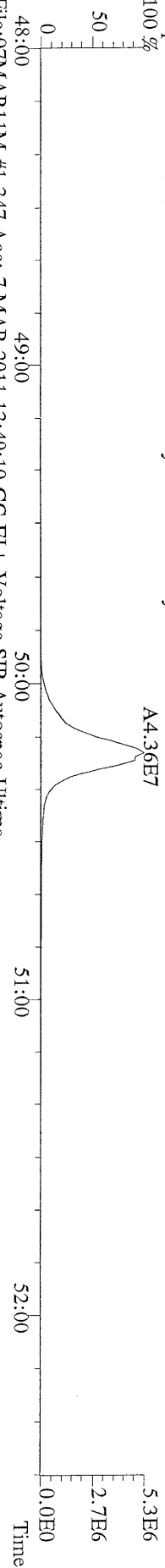
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 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



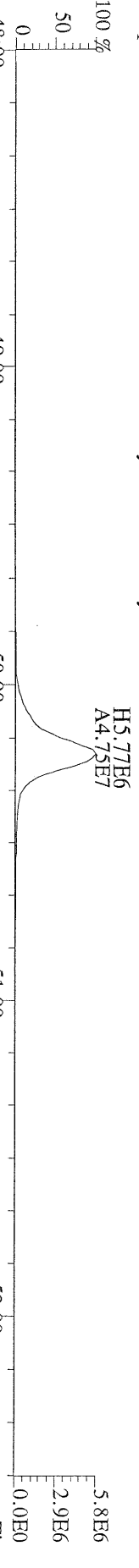
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 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



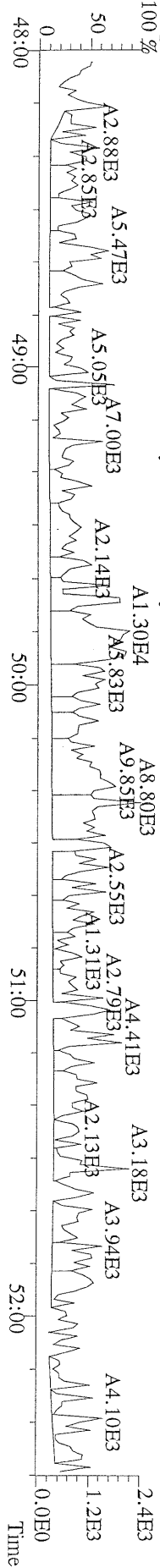
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 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



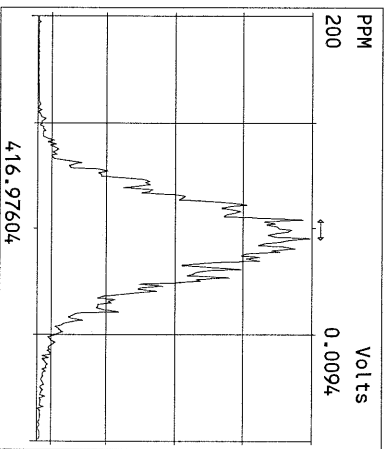
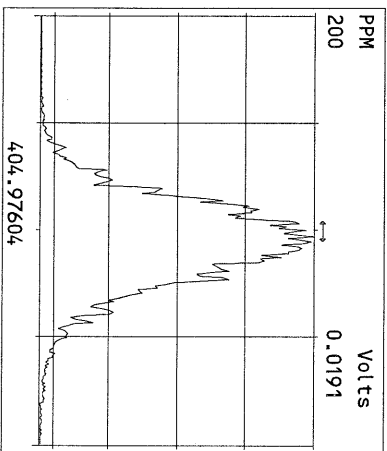
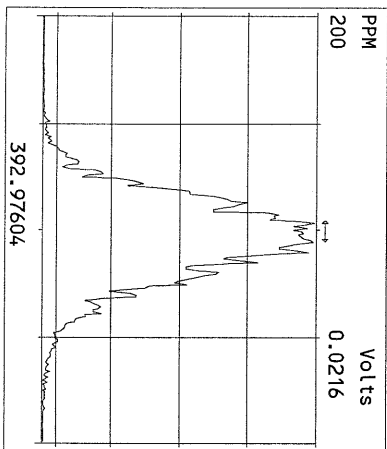
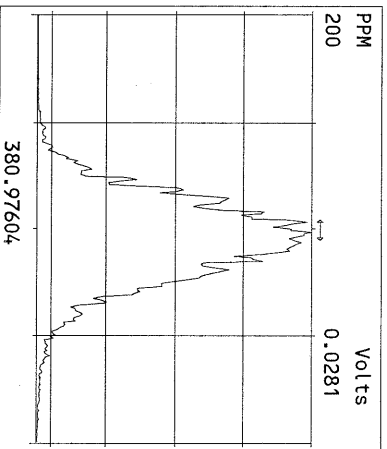
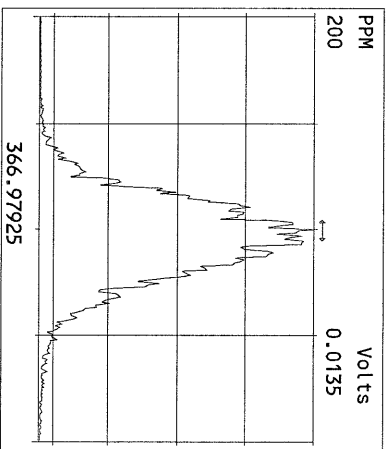
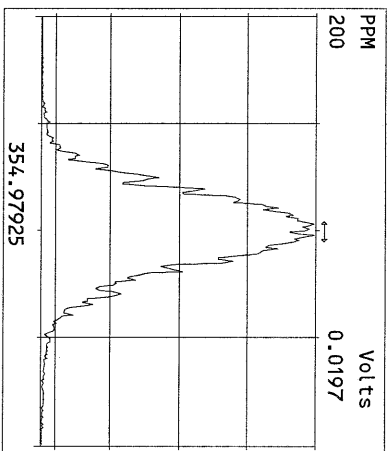
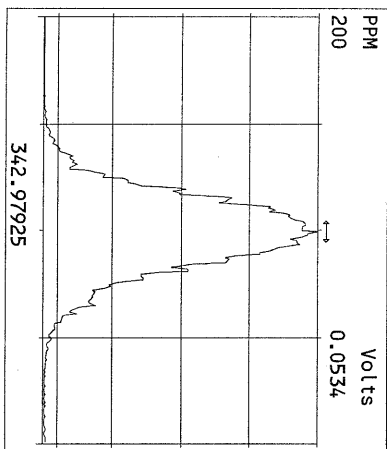
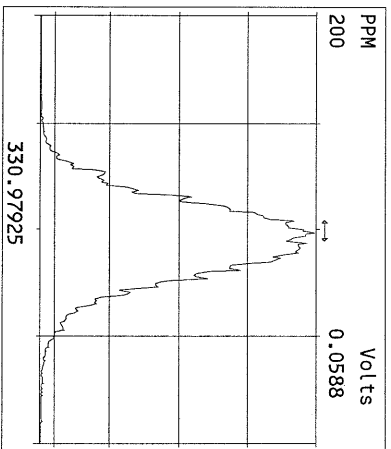
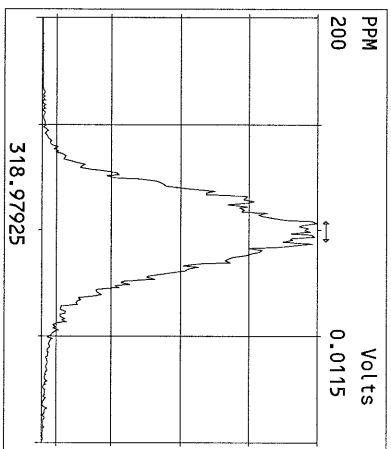
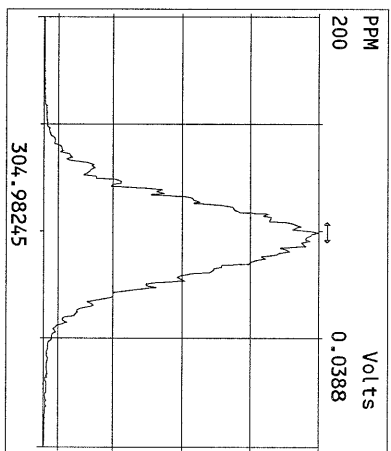
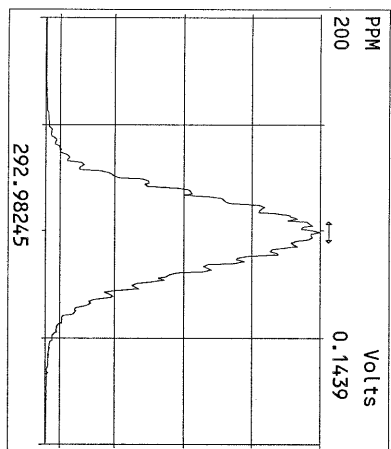
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 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory

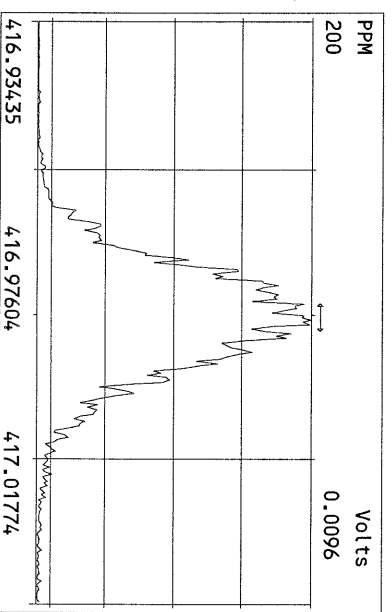
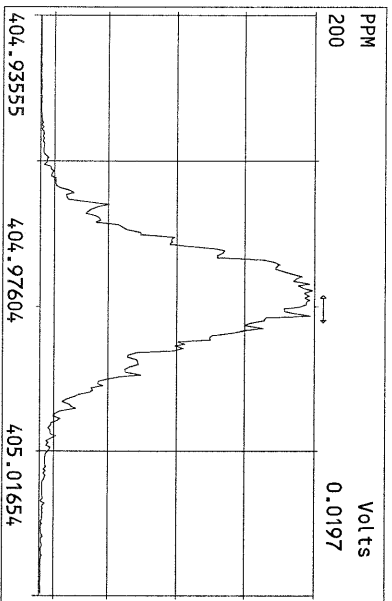
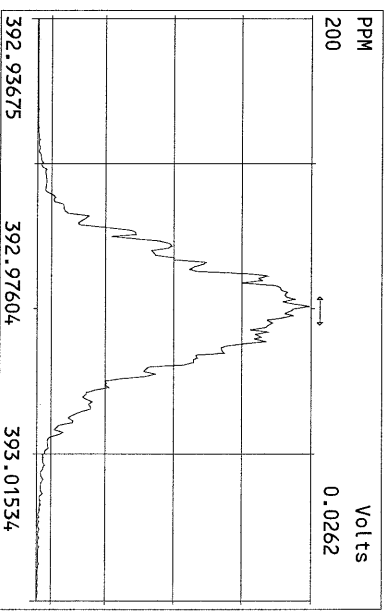
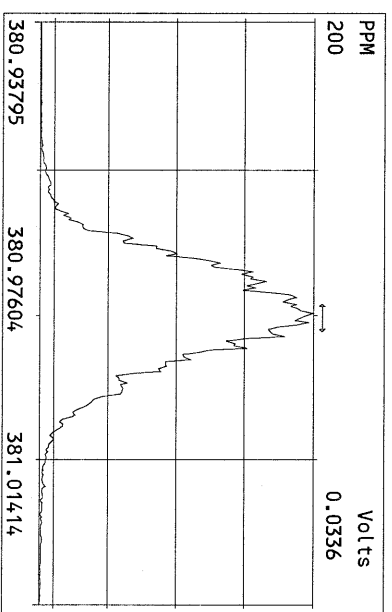
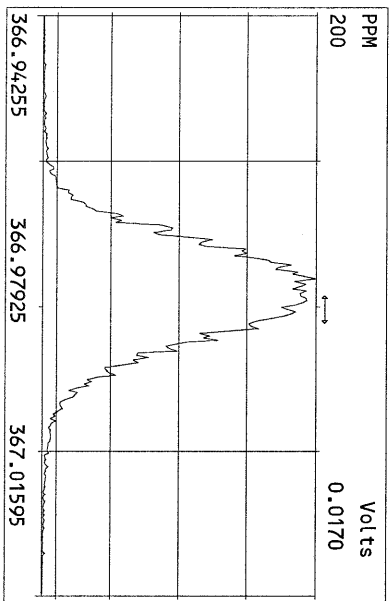
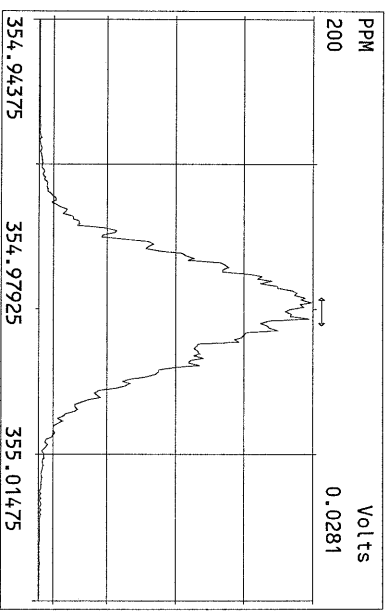
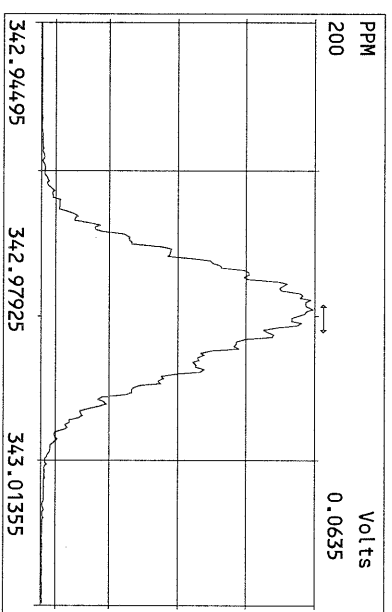
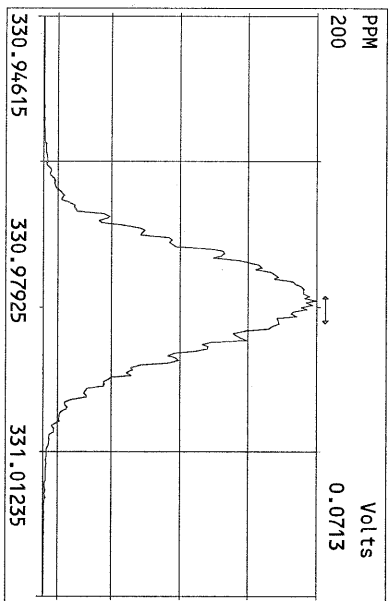


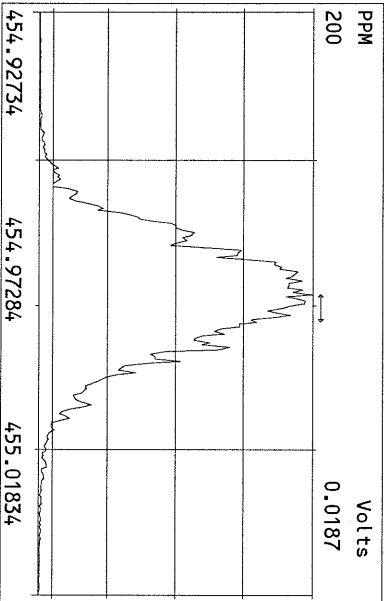
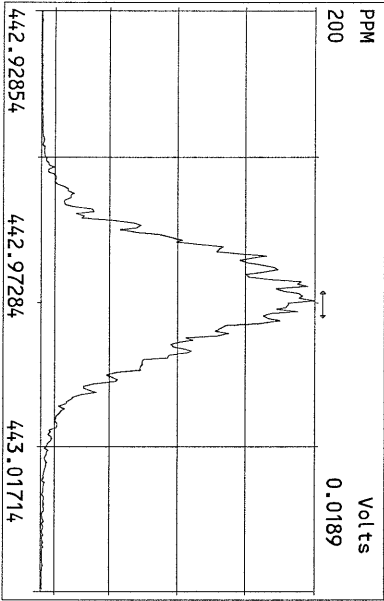
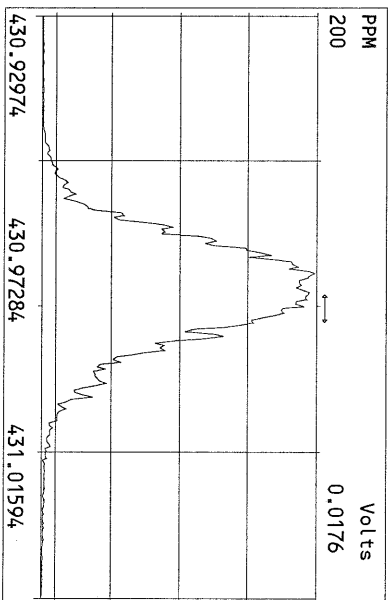
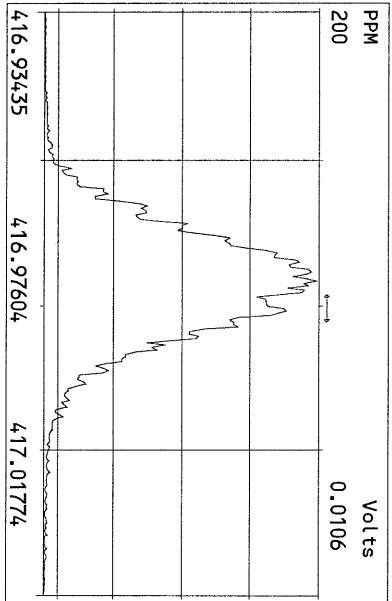
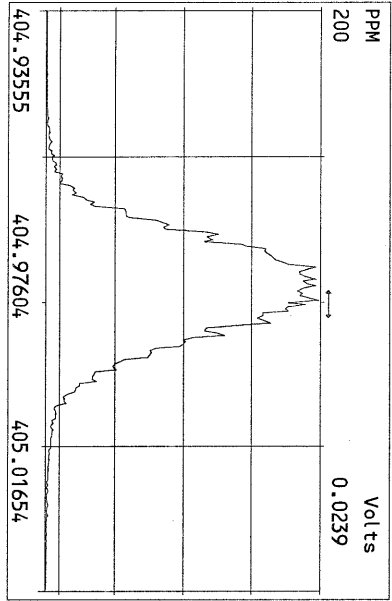
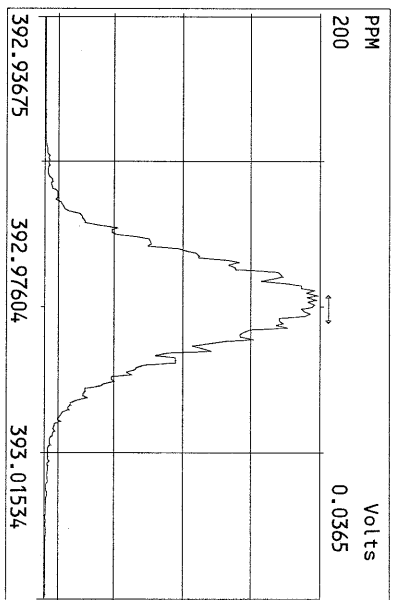
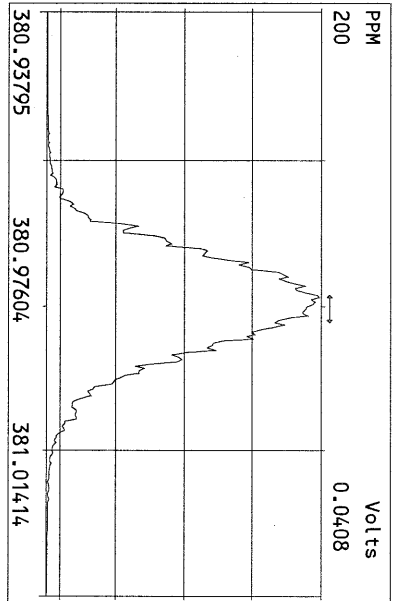
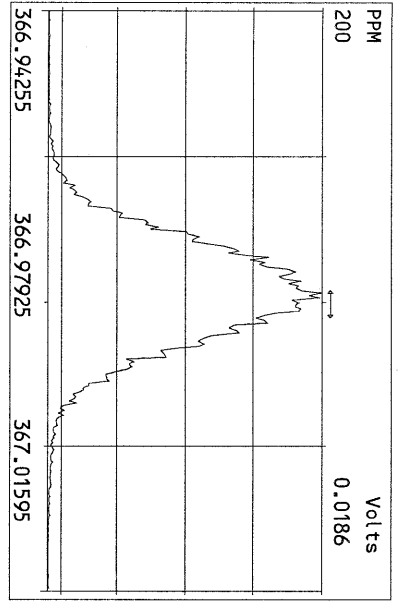
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 513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory

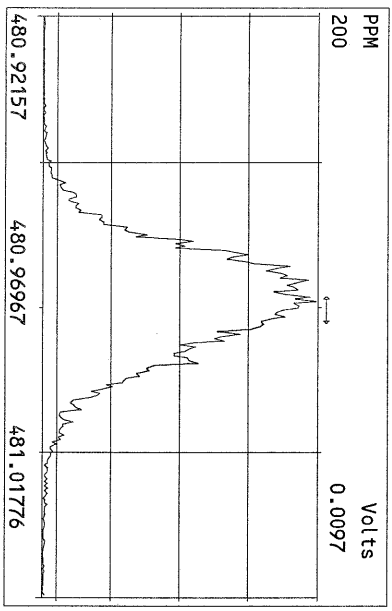
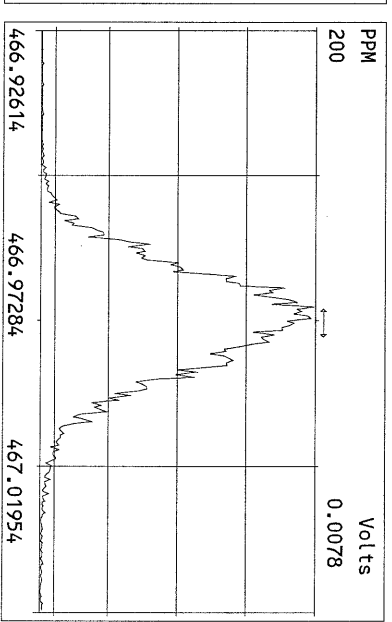
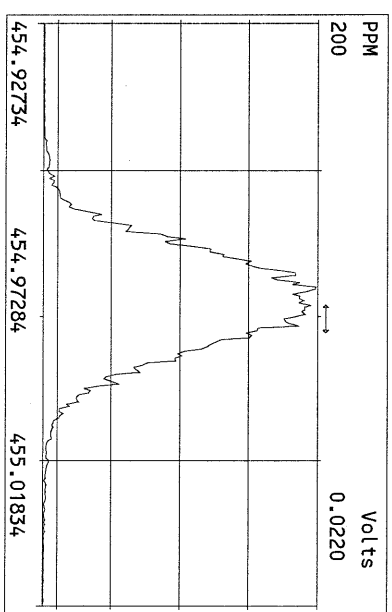
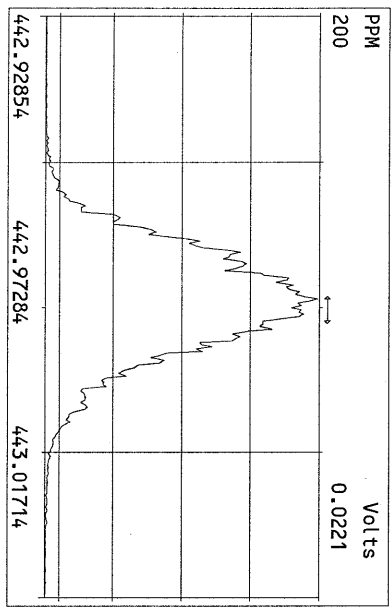
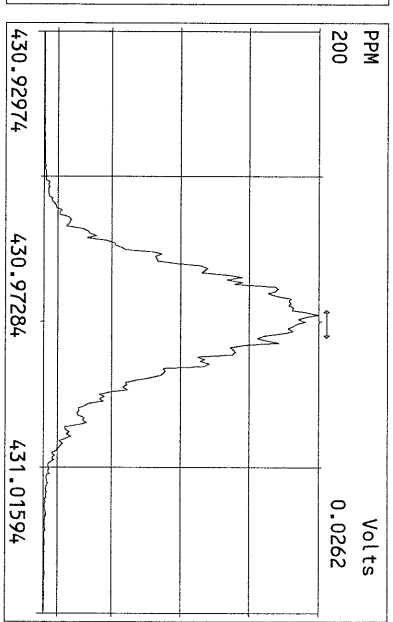
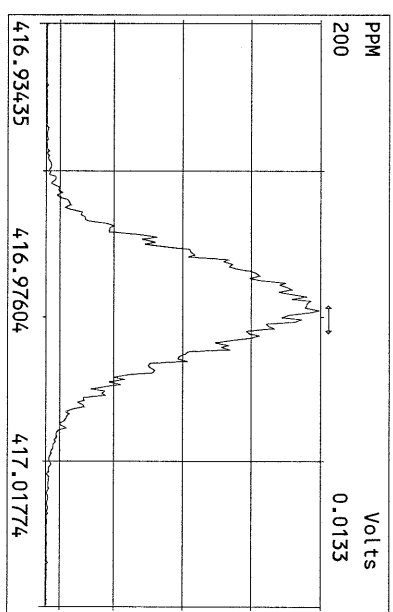
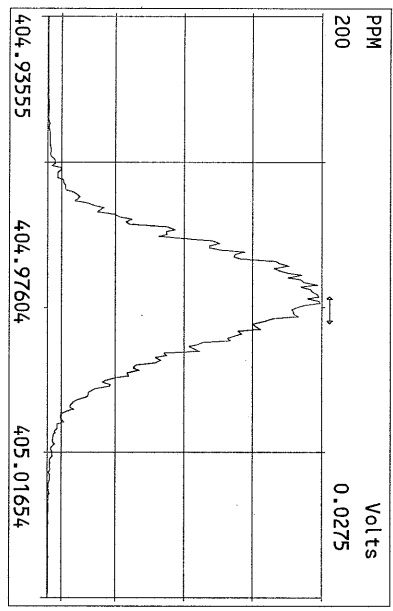


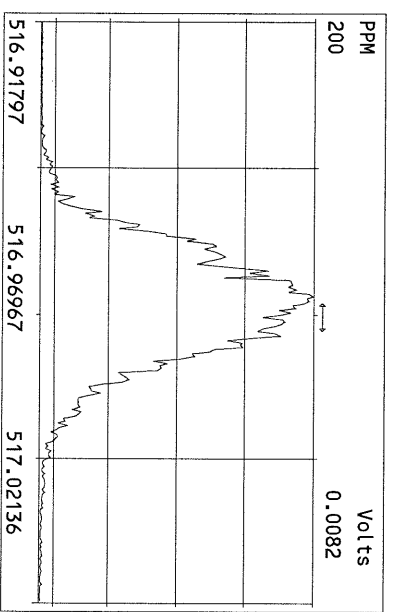
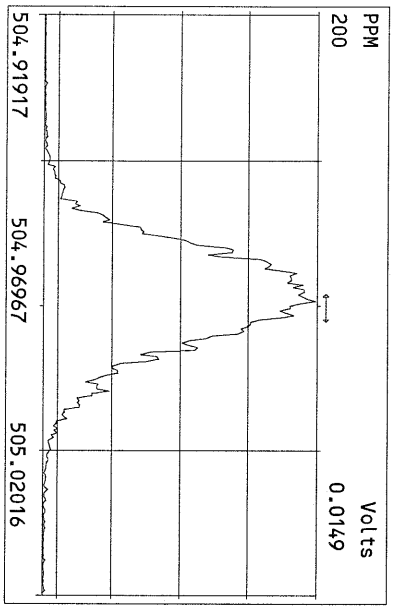
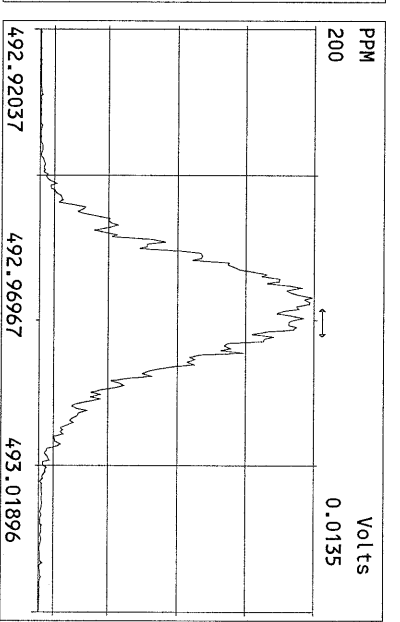
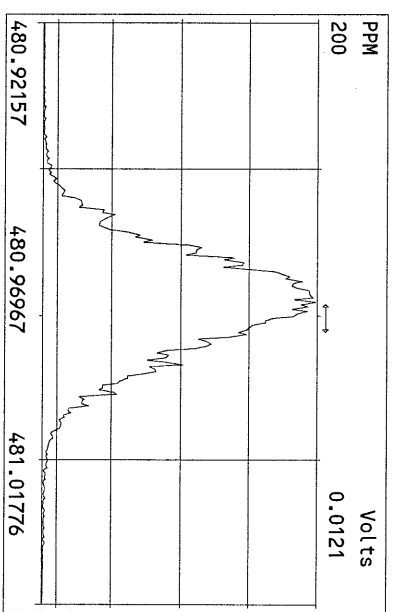
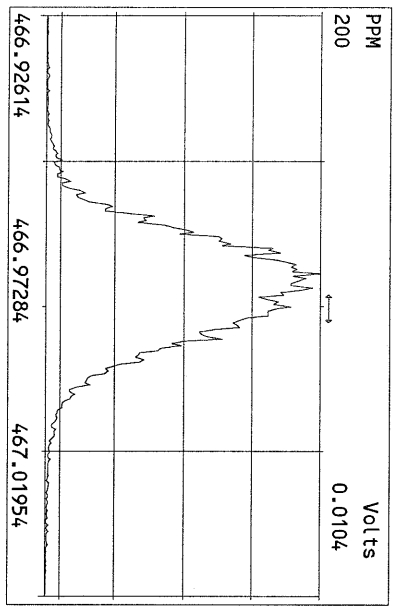
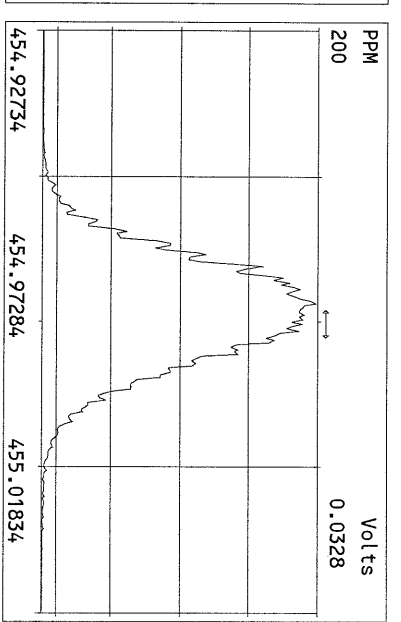
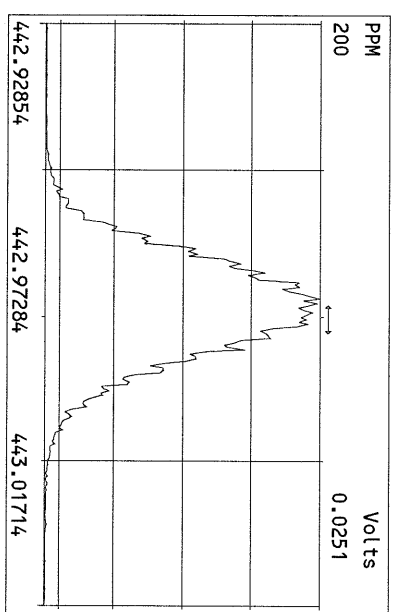
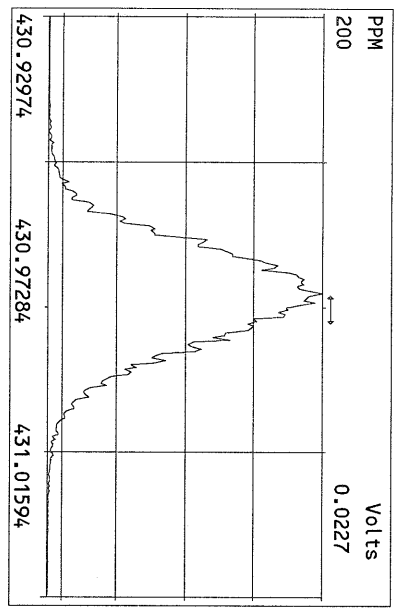
Peak Locate Examination: 8-MAR-2011:08:18 File:07MAR11M_RES_CHECK
Experiment:OCDD Function:1 Reference:PFK











USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/7/11

Instrument ID: FAL3 GC Column ID: DB5


VER Data Filename: 18MAY11M Sam:1 Analysis Date: 18-MAY-11 09:54:39

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	10.00	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.55	1.32-1.78	y	49.7	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	45.7	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	45.4	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.29	1.05-1.43	y	46.7	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.91	0.88-1.20	y	49.9	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	0.67	0.65-0.89	y	10.5	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	48.9	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	47.3	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	45.1	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	45.5	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	45.2	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.23	1.05-1.43	y	46.7	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	0.88-1.20	y	45.3	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	47.0	43.0 - 58.0
OCDF	M+2/M+4	0.92	0.76-1.02	y	86.9	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: 5/19/11

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: 3/7/11
RT Window Data Filename: 18MAY11M Sam:1 Analysis Date: 18-MAY-11 Time: 09:54:39
DB-5 IS Data Filename: 18MAY11M Sam:1 Analysis Date: 18-MAY-11 Time: 09:54:39
DB-225 IS Date Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:17	1,3,6,8-TCDF (F)	22:57
1,2,8,9-TCDD (L)	28:13	1,2,8,9-TCDF (L)	28:25
1,2,4,7,9-PeCDD (F)	30:07	1,3,4,6,8-PeCDF (F)	28:18
1,2,3,8,9-PeCDD (L)	33:41	1,2,3,8,9-PeCDF (L)	34:06
1,2,4,6,7,9-HxCDD (F)	35:60	1,2,3,4,6,8-HxCDF (F)	35:07
1,2,3,7,8,9-HxCDD (L)	39:04	1,2,3,7,8,9-HxCDF (L)	39:38
1,2,3,4,6,7,9-HpCDD (F)	42:40	1,2,3,4,6,7,8-HpCDF (F)	42:09
1,2,3,4,6,7,8-HpCDD (L)	44:04	1,2,3,4,7,8,9-HpCDF (L)	44:58

(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: 5/19/11

USEPA - ITD

FORM 6A

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

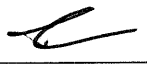
Analysis Date: 18-MAY-11 09:54:39

CS3 or VER Data Filename: 18MAY11M

Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052
13C-2,3,7,8-TCDD		1.022	0.976-1.043
13C-2,3,7,8-TCDF		0.993	0.923-1.103
13C-1,2,3,7,8-PeCDD		1.239	1.000-1.567
13C-1,2,3,7,8-PeCDF		1.175	0.923-1.203
13C-2,3,4,7,8-PeCDF		1.224	0.923-1.303

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

Analyst: Date: 

USEPA - ITD

FORM 6B

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 18-MAY-11 09:54:39

CS3 or VER Data Filename: 18MAY11M

Sam:1

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	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.001	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	0.985	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		0.955	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		1.080	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: Date: 5/19/11

Name	Resp	RA	RT	RRF	WHO 1998 Tox:		WHO 2005 Tox:		110 DL		
					Conc	Qual	Fac Noise-1	Noise-2			
2,3,7,8-TCDD	4.18e+06	0.79 y	27:17	1.13	10.00		2.50	-	-	*	
1,2,3,7,8-PeCDD	1.58e+07	1.55 y	33:06	1.02	49.7		2.50	-	-	*	
1,2,3,4,7,8-HxCDD	1.46e+07	1.29 y	38:28	1.45	45.7		2.50	-	-	*	
1,2,3,6,7,8-HxCDD	1.25e+07	1.29 y	38:38	1.45	45.4		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	1.41e+07	1.29 y	39:04	1.47	46.7		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	1.00e+07	0.91 y	44:04	1.30	49.9		2.50	-	-	*	
OCDD	1.31e+07	0.93 y	49:35	1.45	101		2.50	-	-	*	
2,3,7,8-TCDF	7.11e+06	0.67 y	26:31	1.15	10.5		2.50	-	-	*	
1,2,3,7,8-PeCDF	2.01e+07	1.55 y	31:21	0.89	48.9		2.50	-	-	*	
2,3,4,7,8-PeCDF	1.87e+07	1.54 y	32:40	0.89	47.3		2.50	-	-	*	
1,2,3,4,7,8-HxCDF	1.55e+07	1.22 y	37:04	1.01	45.1		2.50	-	-	*	
1,2,3,6,7,8-HxCDF	1.78e+07	1.23 y	37:16	0.89	45.5		2.50	-	-	*	
2,3,4,6,7,8-HxCDF	1.56e+07	1.25 y	38:12	1.02	45.2		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	1.72e+07	1.23 y	39:38	1.10	46.7		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	1.18e+07	1.04 y	42:09	1.48	45.3		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	7.70e+06	1.05 y	44:58	1.43	47.0		2.50	-	-	*	
OCDF	1.14e+07	0.92 y	49:57	0.84	86.9		2.50	-	-	*	
										Rec	
13C-2,3,7,8-TCDD	3.68e+07	0.78 y	27:15	1.03	89.2					89.2	
13C-1,2,3,7,8-PeCDD	3.12e+07	1.74 y	33:04	1.01	76.9					76.9	
13C-1,2,3,4,7,8-HxCDD	2.20e+07	1.27 y	38:27	1.19	102					102	
13C-1,2,3,6,7,8-HxCDD	1.90e+07	1.28 y	38:36	0.94	111					111	
13C-1,2,3,4,6,7,8-HpCDD	1.54e+07	1.03 y	44:02	0.83	103					103	
13C-OCDD	1.79e+07	0.93 y	49:33	0.61	162					81.2	
13C-2,3,7,8-TCDF	5.88e+07	0.87 y	26:30	0.98	94.4					94.4	
13C-1,2,3,7,8-PeCDF	4.65e+07	1.67 y	31:21	0.83	88.2					88.2	
13C-2,3,4,7,8-PeCDF	4.42e+07	1.65 y	32:39	0.80	86.5					86.5	
13C-1,2,3,4,7,8-HxCDF	3.41e+07	0.48 y	37:03	1.84	102					102	
13C-1,2,3,6,7,8-HxCDF	4.37e+07	0.48 y	37:16	2.29	105					105	
13C-2,3,4,6,7,8-HxCDF	3.40e+07	0.49 y	38:11	1.86	101					101	
13C-1,2,3,7,8,9-HxCDF	3.33e+07	0.48 y	39:36	1.98	92.5					92.5	
13C-1,2,3,4,6,7,8-HpCDF	1.75e+07	0.46 y	42:08	0.99	97.5					97.5	
13C-1,2,3,4,7,8,9-HpCDF	1.15e+07	0.46 y	44:56	0.77	82.4					82.4	
13C-OCDF	3.12e+07	0.93 y	49:56	1.17	147					73.5	
37Cl-2,3,7,8-TCDD	2.47e+06		27:16	0.73	8.45					84.5	
13C-1,2,3,4-TCDD	4.01e+07	0.79 y	26:41	-	106						
13C-1,2,3,4-TCDF	6.36e+07	0.87 y	25:26	-	88.3						
13C-1,2,3,7,8,9-HxCDD	1.82e+07	1.28 y	39:02	-	73.3						
							Fac Noise-1	Noise-2	DL	#Hom	
Total Tetra-Dioxins	2.25e+07		23:16	1.13	53.9		2.50	-	-	*	23
Total Penta-Dioxins	3.54e+07		30:07	1.02	112		2.50	-	-	*	10
Total Hexa-Dioxins	4.74e+07		36:00	1.46	159		2.50	-	-	*	18
Total Hepta-Dioxins	2.16e+07		42:40	1.30	108		2.50	-	-	*	18
Total Tetra-Furans	3.53e+07		22:57	1.15	52.3		2.50	-	-	*	24
1st Fn. Tot Penta-Furans	2.90e+07		28:18	0.89	72.0		2.50	-	-	*	PeCDF 1
Total Penta-Furans	5.53e+07		30:02	0.89	137		2.50	-	-	*	209 11
Total Hexa-Furans	7.74e+07		35:07	1.00	214		2.50	-	-	*	16
Total Hepta-Furans	2.03e+07		42:09	1.46	96.4		2.50	-	-	*	17

Analyst: 

Date: 5/19/11

Frontier Analytical Laboratory - Acquisition Log

Run Name:18MAY11M

Instrument: FAL3

GC: DB5

Experiment:OCDD

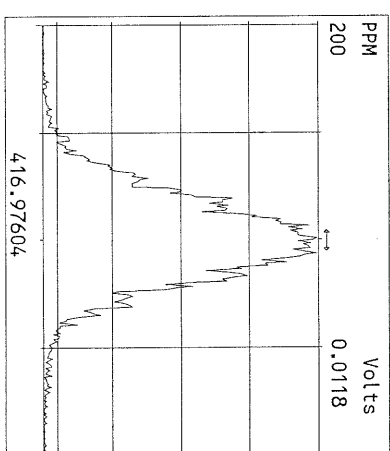
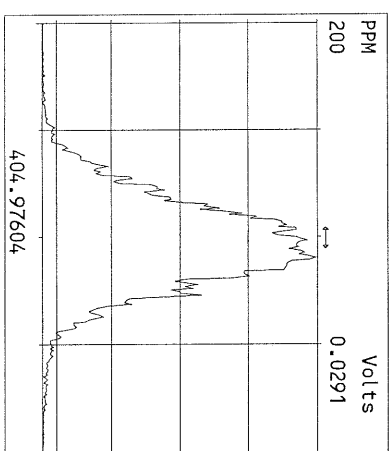
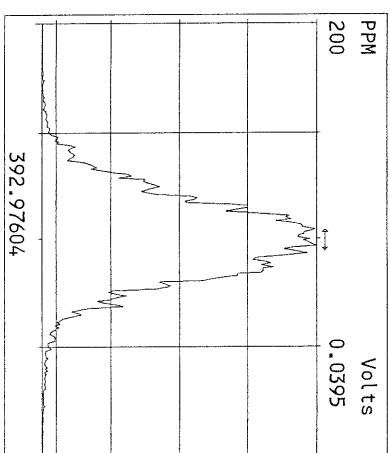
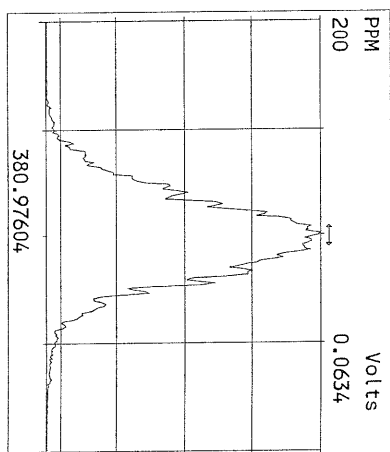
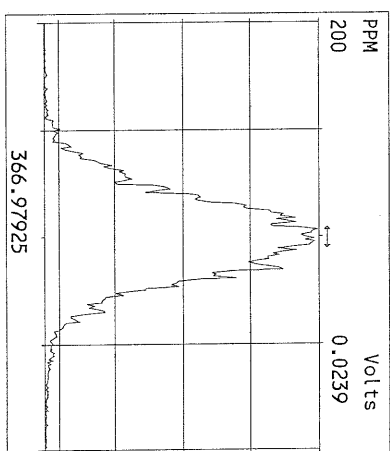
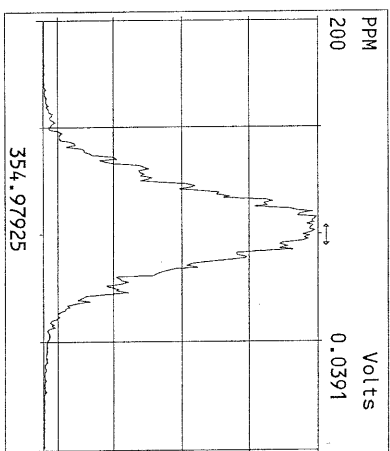
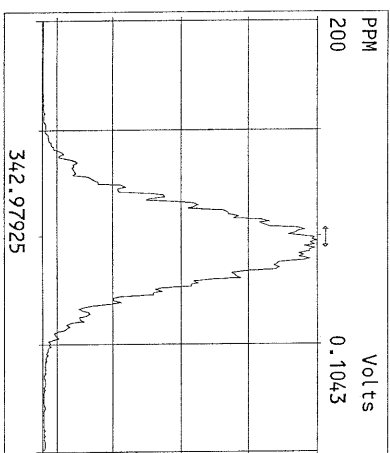
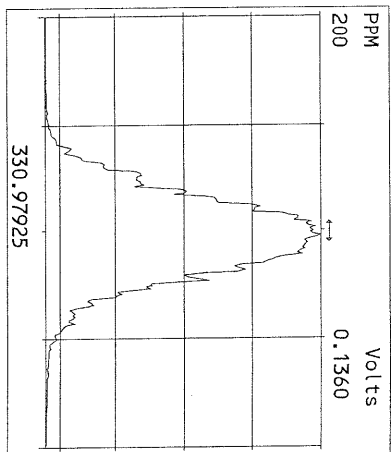
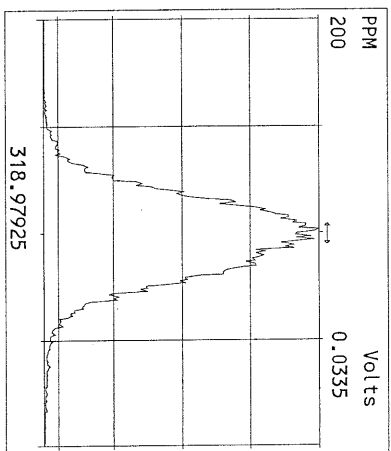
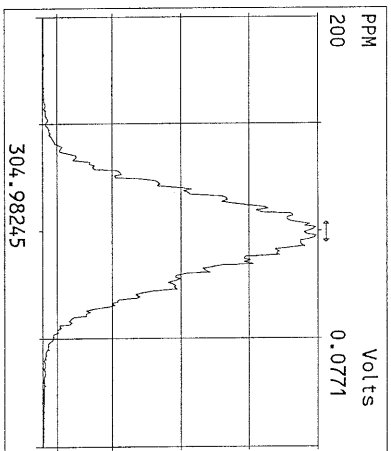
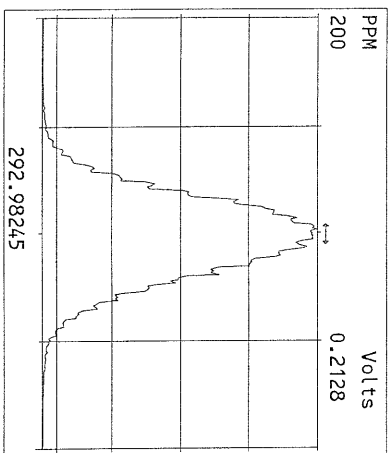
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18MAY11M 6	6742-003-0001-SA	MW14042811	18-MAY-11 14:31:32	ST051811M1	ST051811M2	TC
18MAY11M 7	6746-001-0001-SA	PZ-FL-5	18-MAY-11 15:26:55	ST051811M1	ST051811M2	TC
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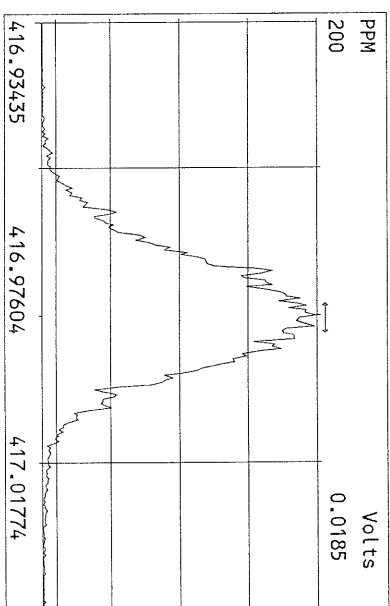
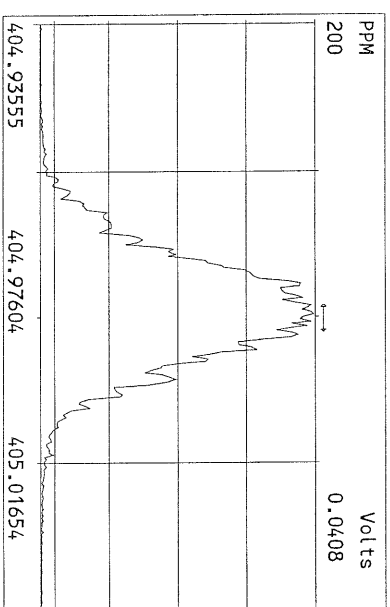
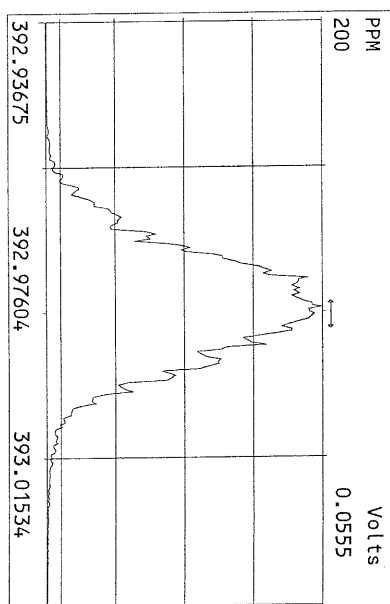
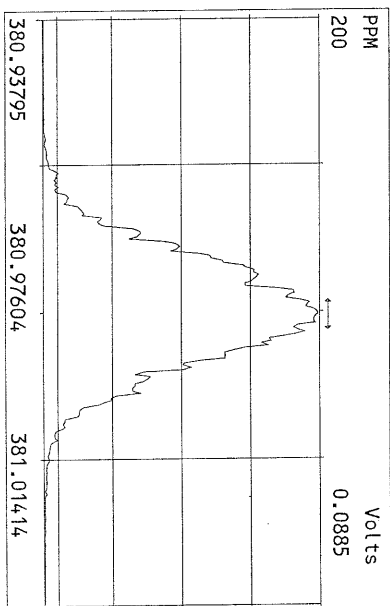
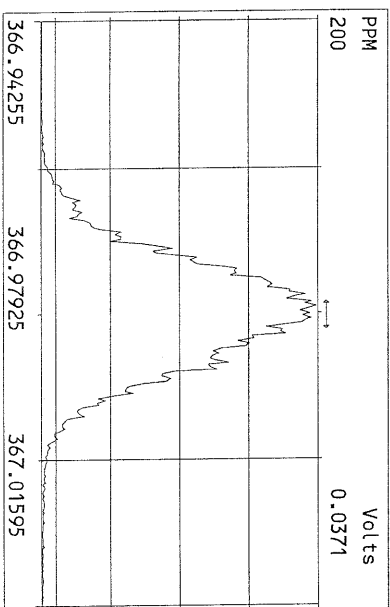
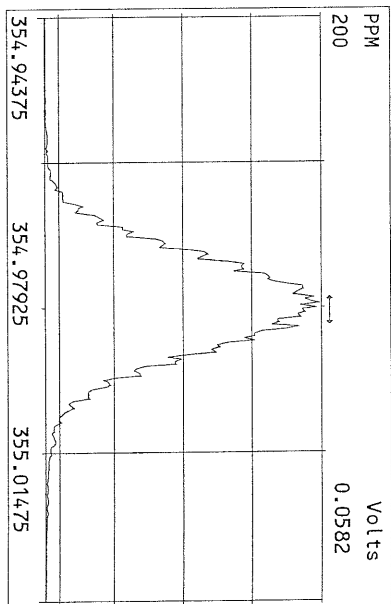
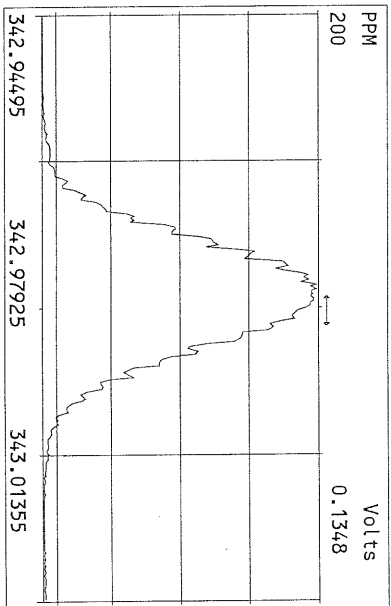
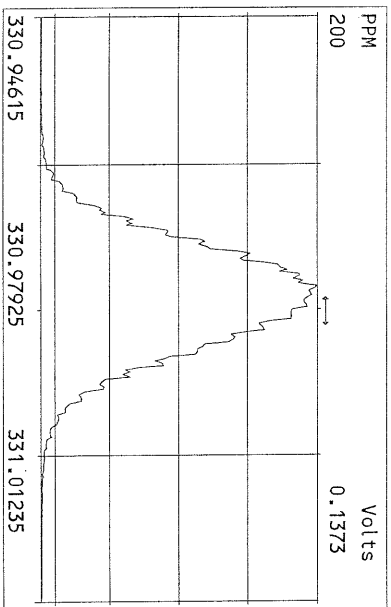
5/19/11

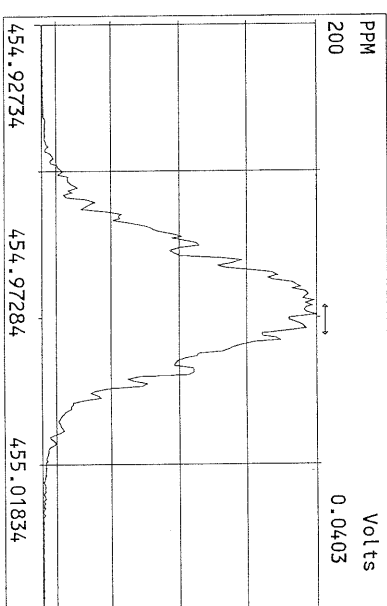
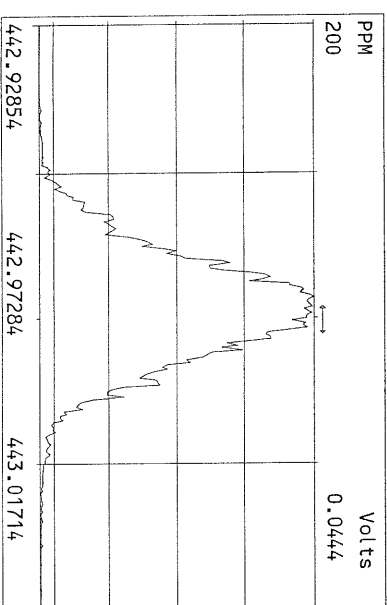
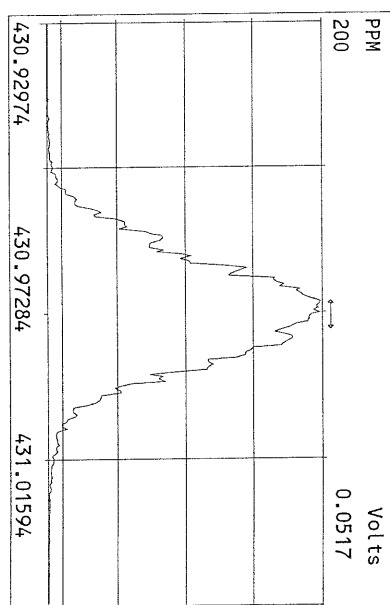
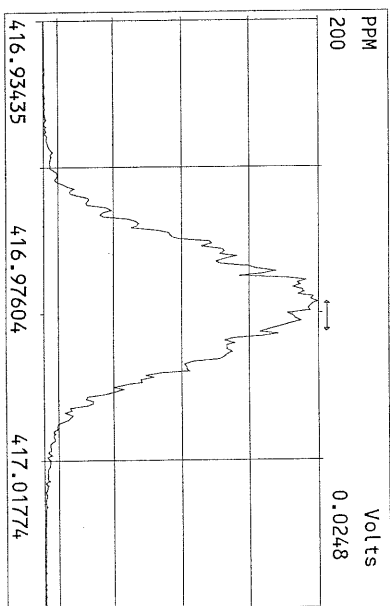
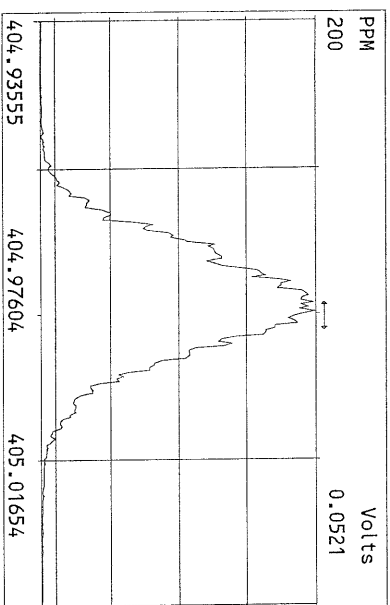
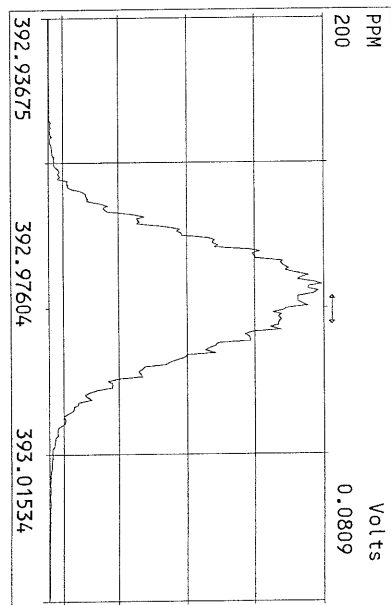
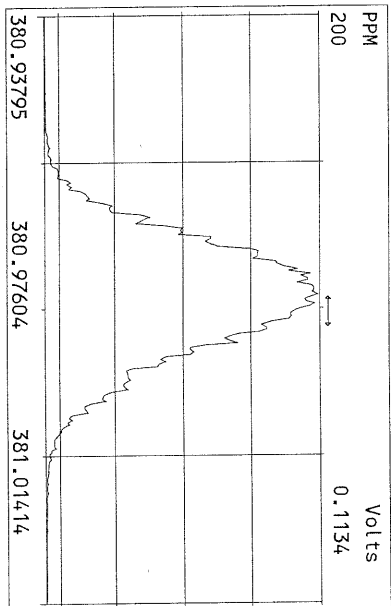
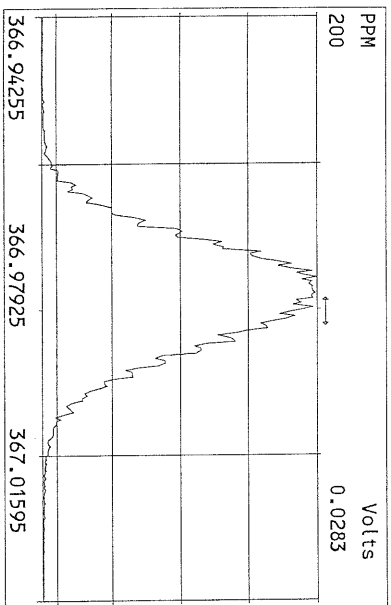
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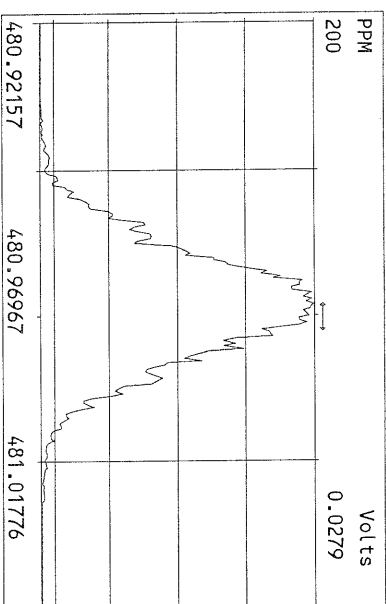
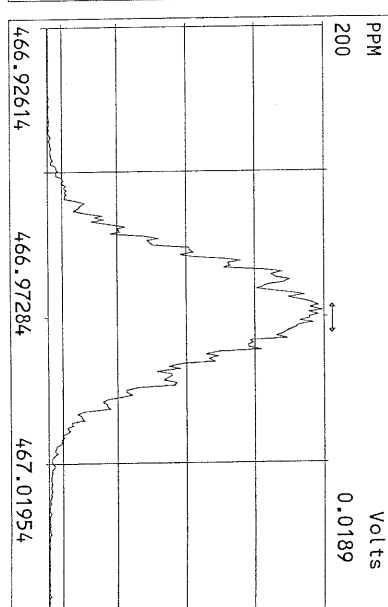
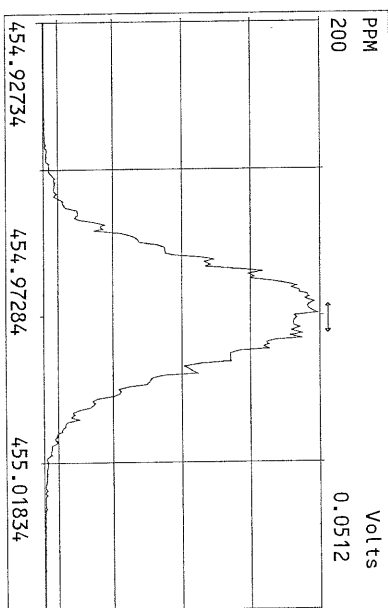
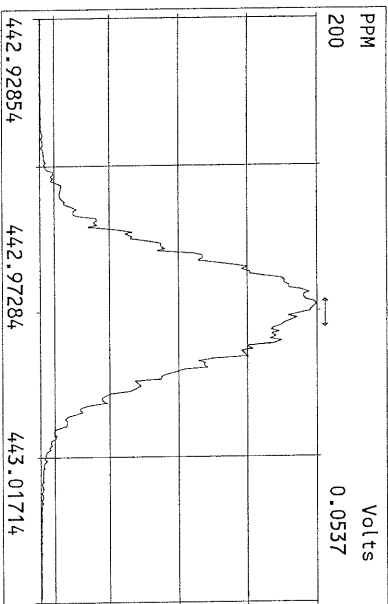
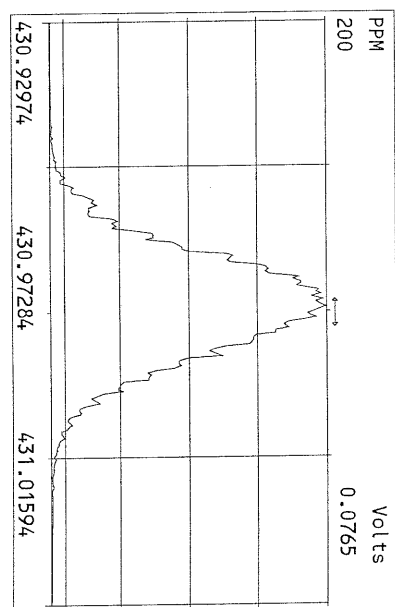
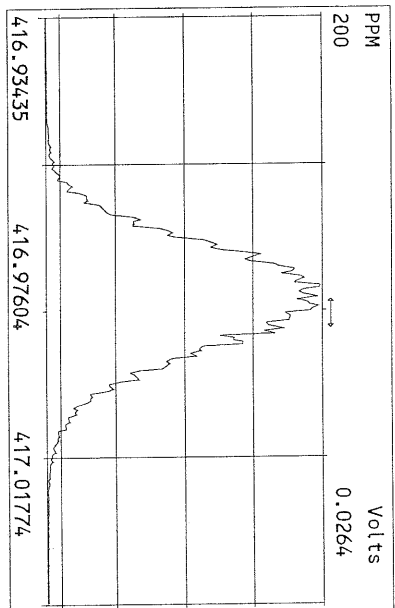
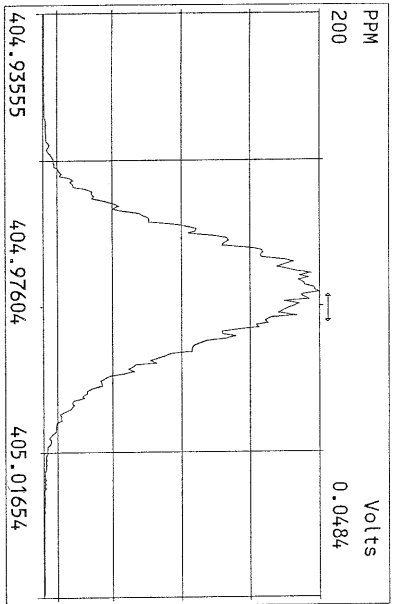
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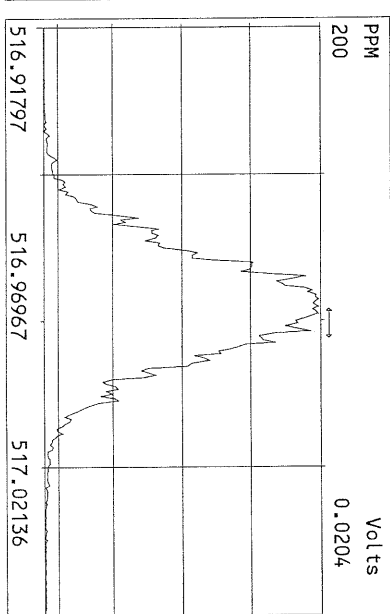
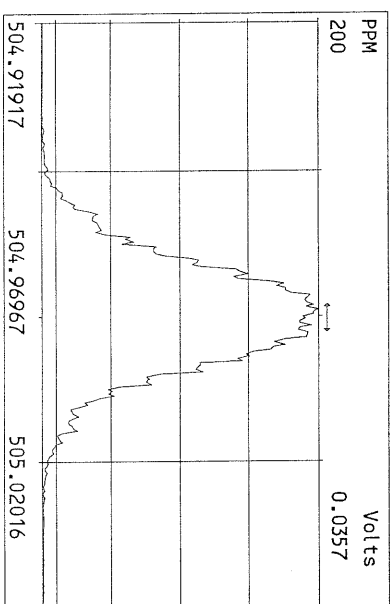
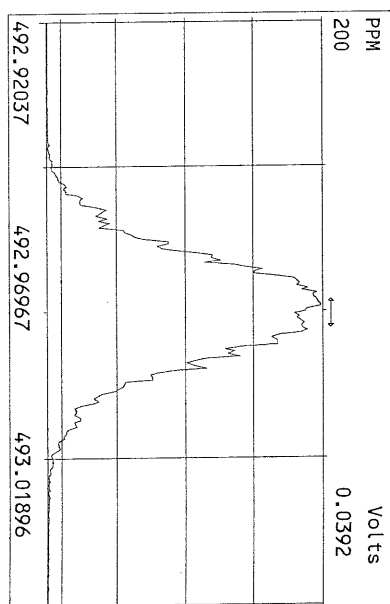
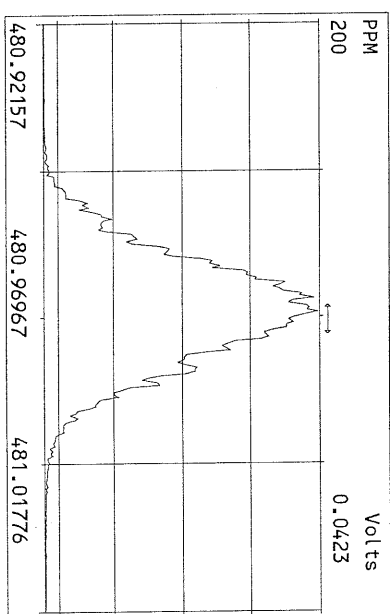
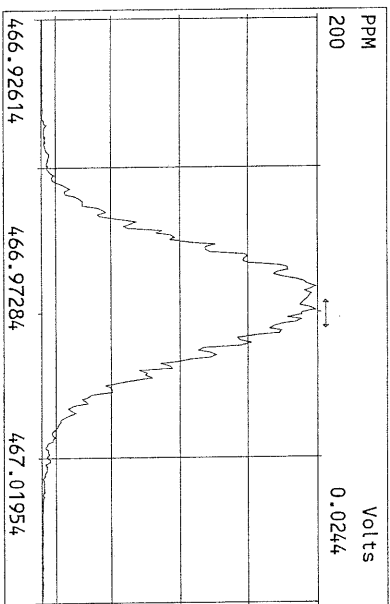
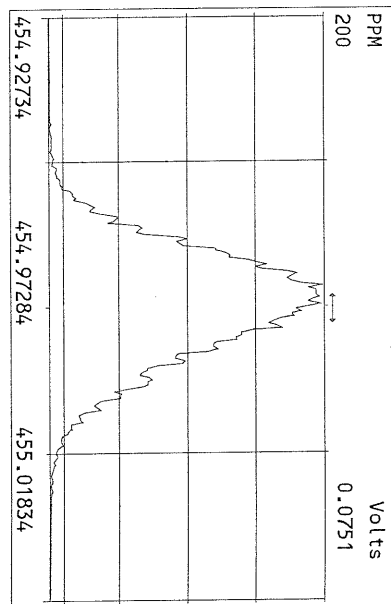
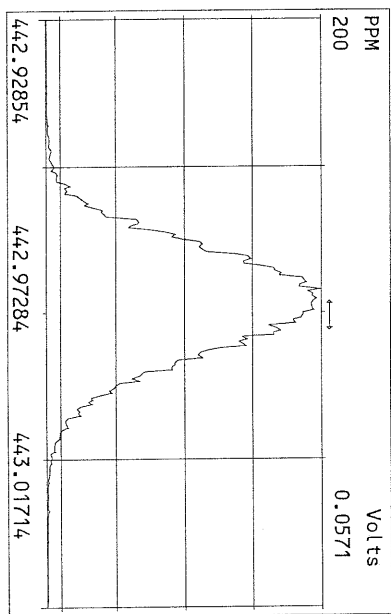
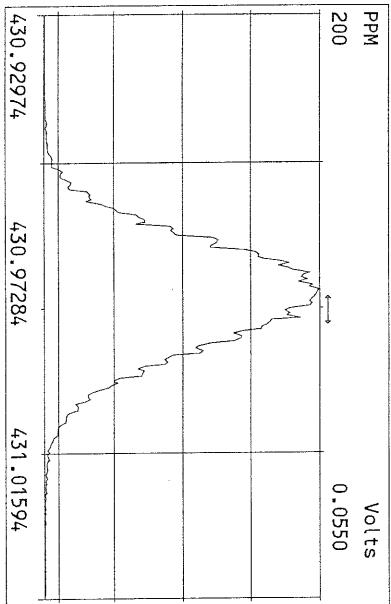


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Experiment:OCD Function:2 Reference:PFK

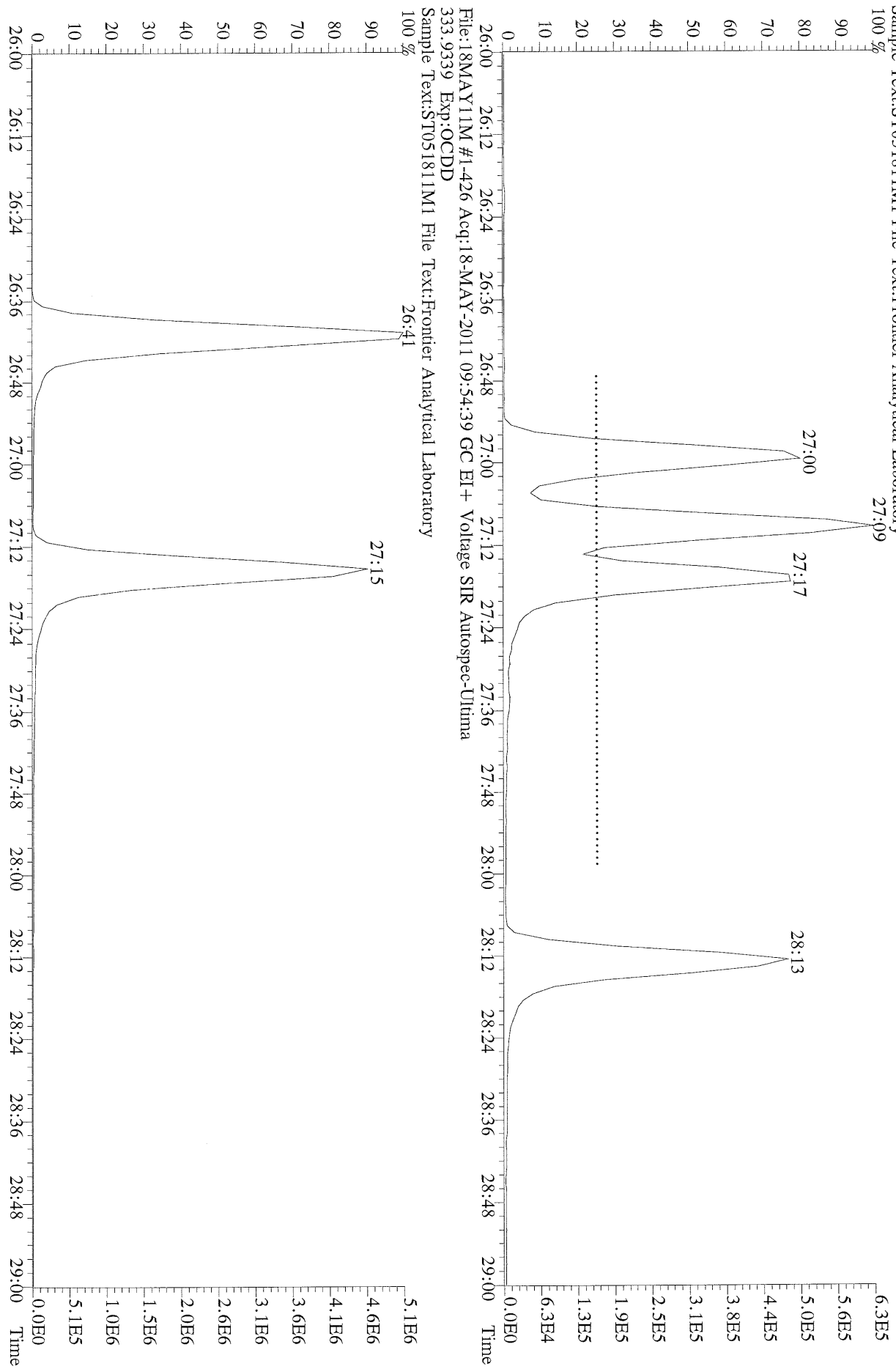






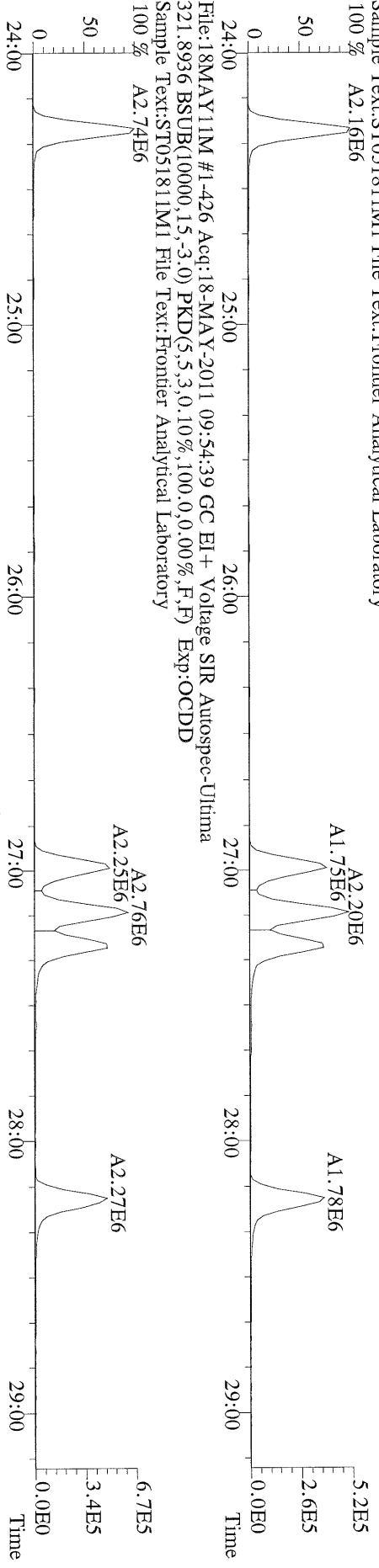


File:18MAY11M #1-426 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
321.8936 Exp:OCDD
Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory
100%

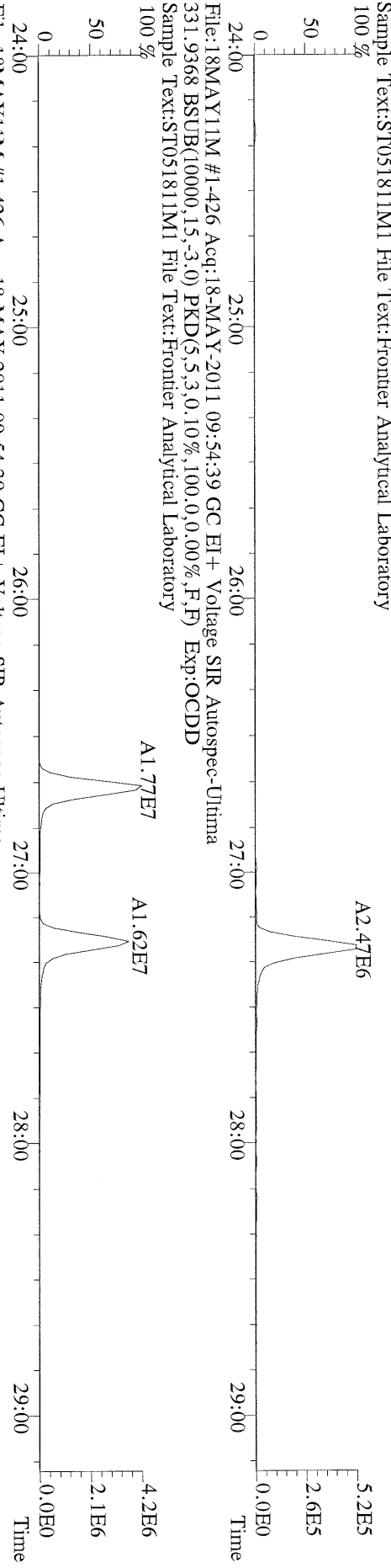


File:18MAY11M #1-426 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
333.9339 Exp:OCDD
Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory

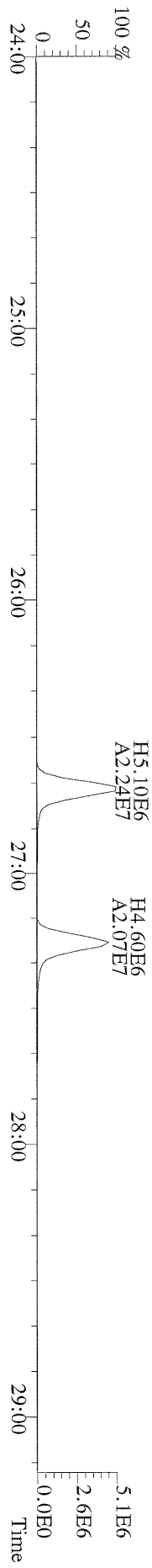
File:18MAY11M #1-426 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



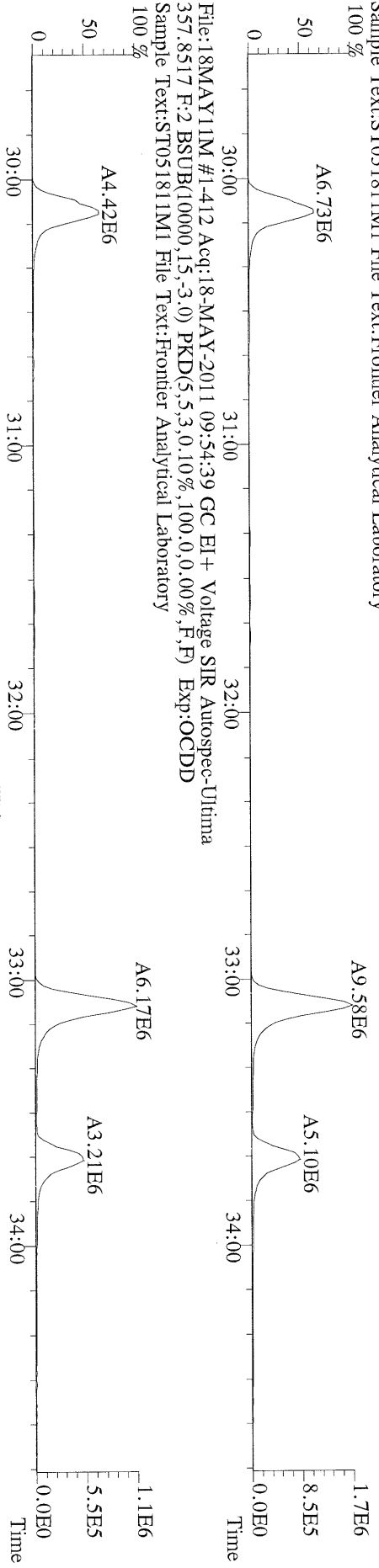
File:18MAY11M #1-426 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



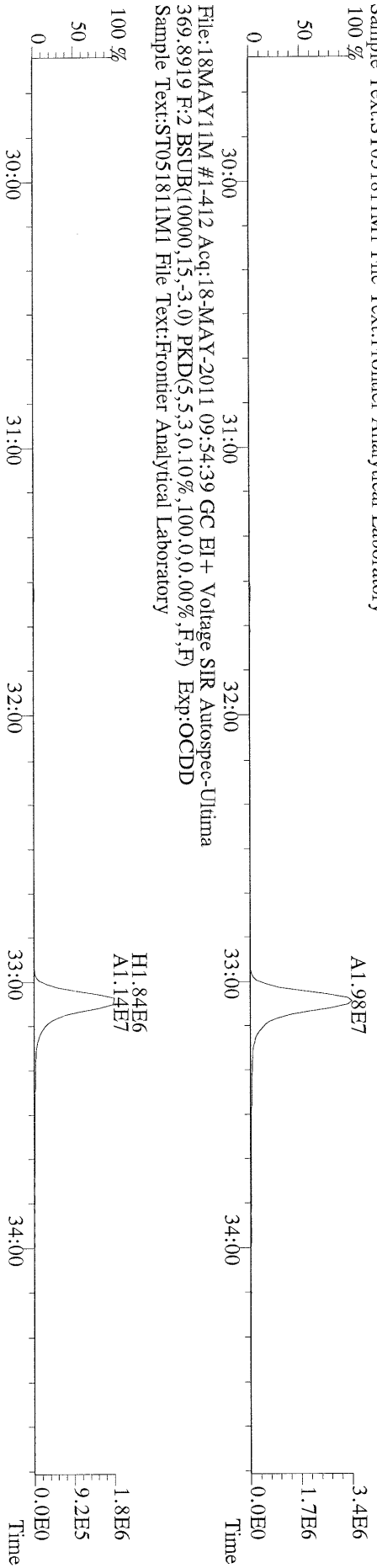
File:18MAY11M #1-426 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
333.9339 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



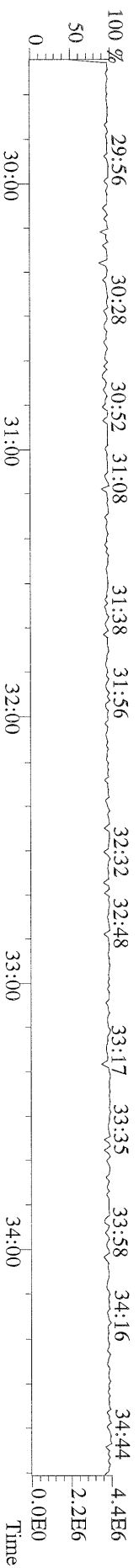
File:18MAY11M #1-412 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



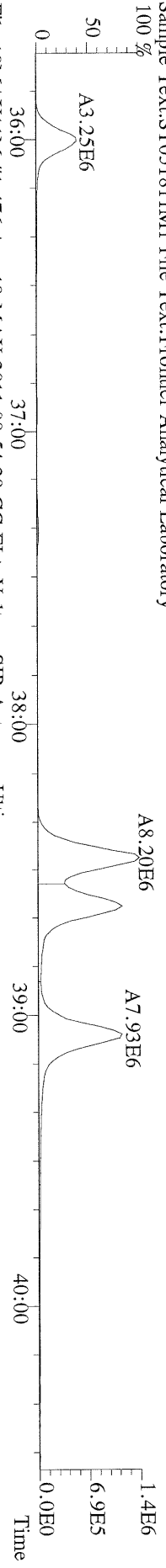
File:18MAY11M #1-412 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



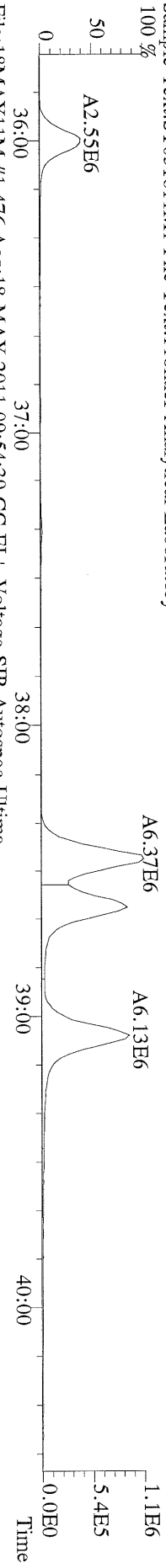
File:18MAY11M #1-412 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 366.9792 F:2 Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



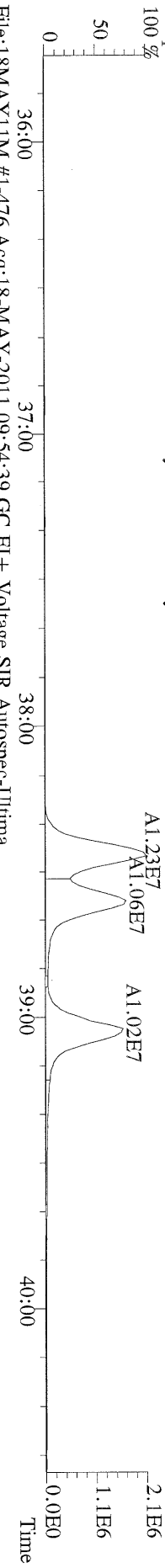
File:18MAY11M #1-476 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



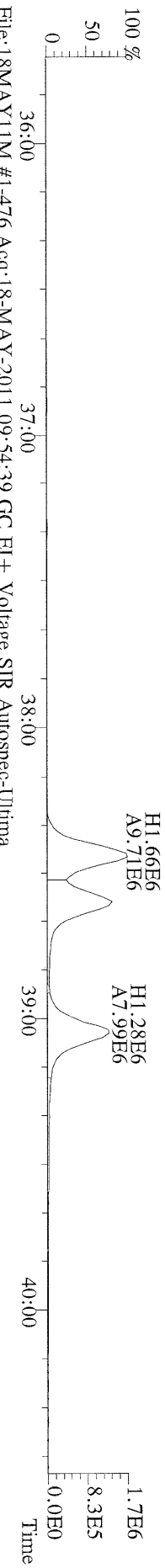
File:18MAY11M #1-476 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



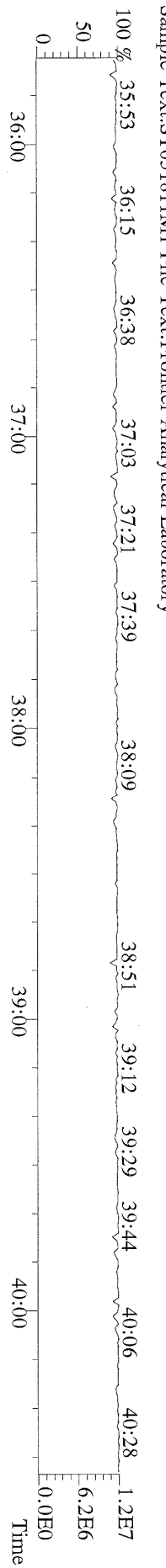
File:18MAY11M #1-476 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



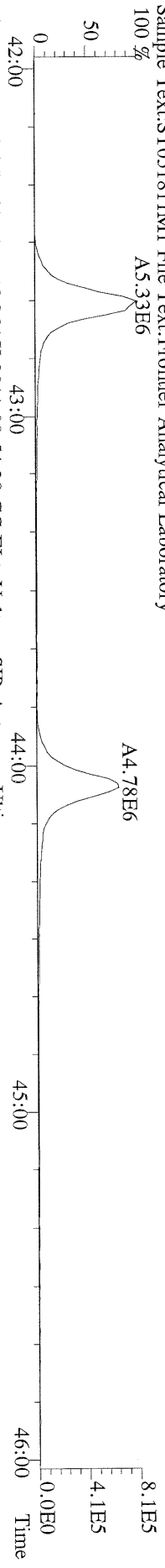
File:18MAY11M #1-476 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



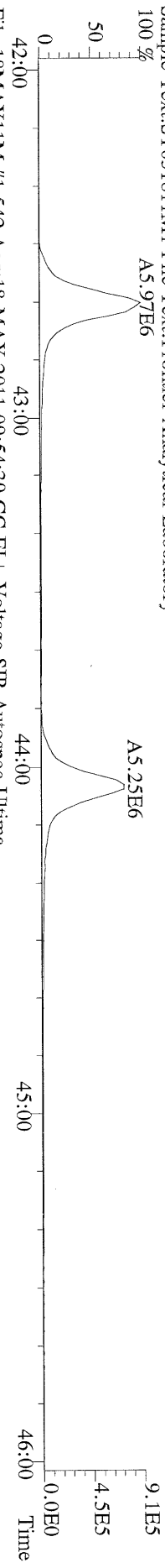
File:18MAY11M #1-476 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 F:3 Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



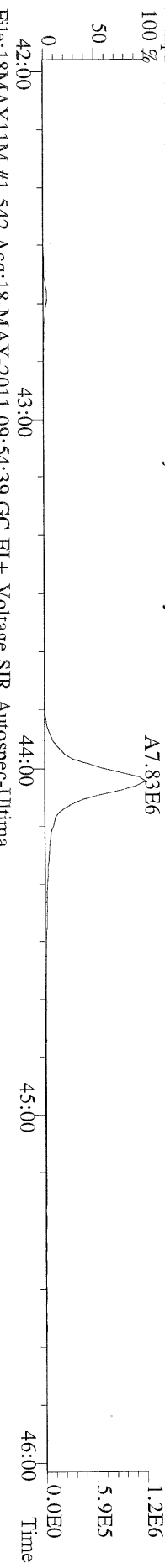
File:18MAY11M #1-542 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



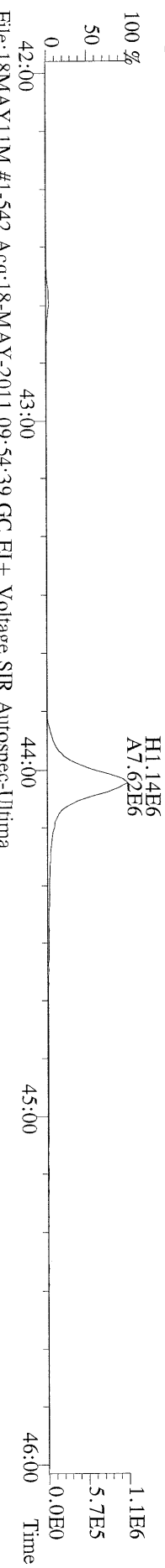
File:18MAY11M #1-542 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



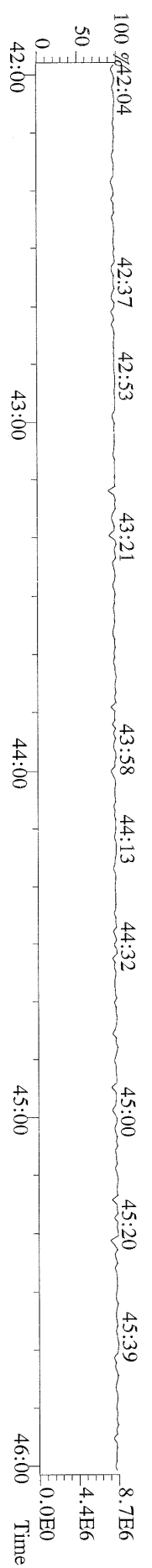
File:18MAY11M #1-542 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



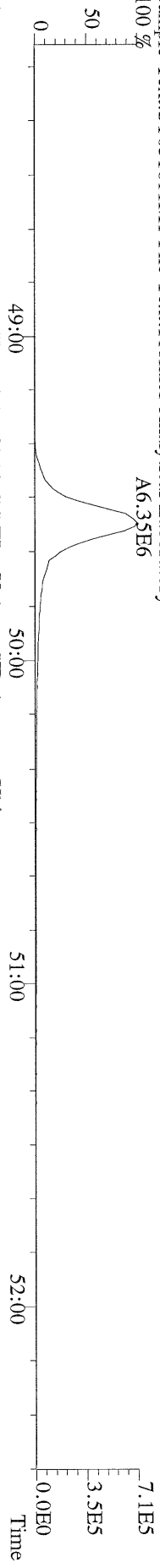
File:18MAY11M #1-542 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



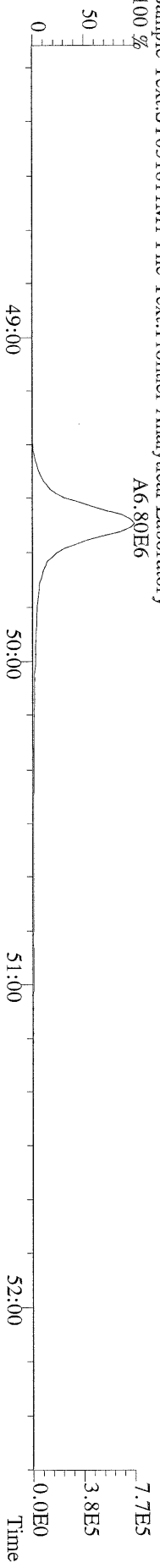
File:18MAY11M #1-542 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 430.9728 F:4 Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



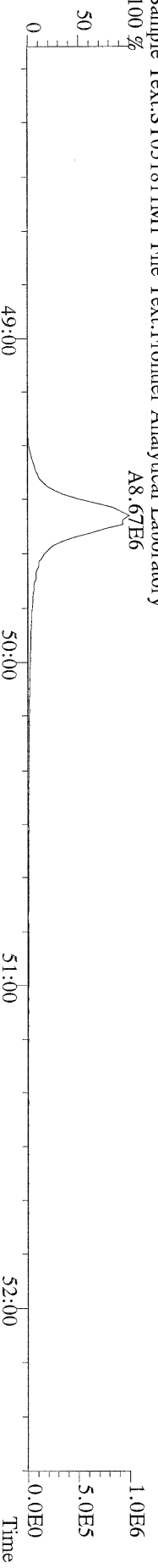
File:18MAY11M #1-347 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory
 100 %



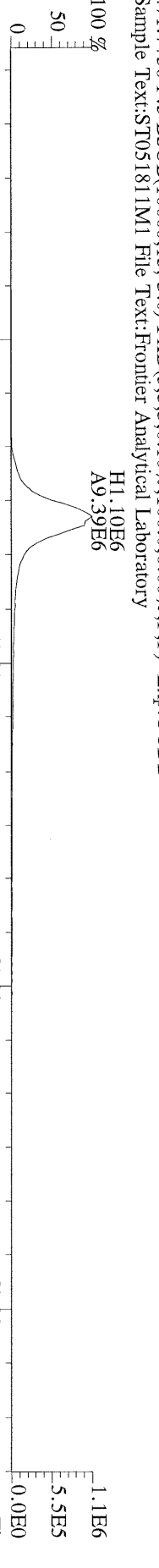
File:18MAY11M #1-347 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory
 100 %



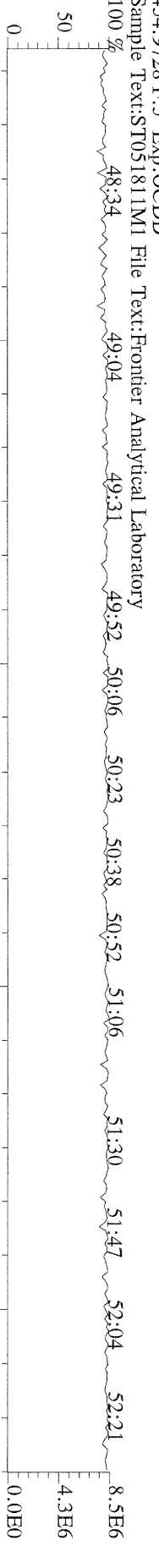
File:18MAY11M #1-347 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory
 100 %



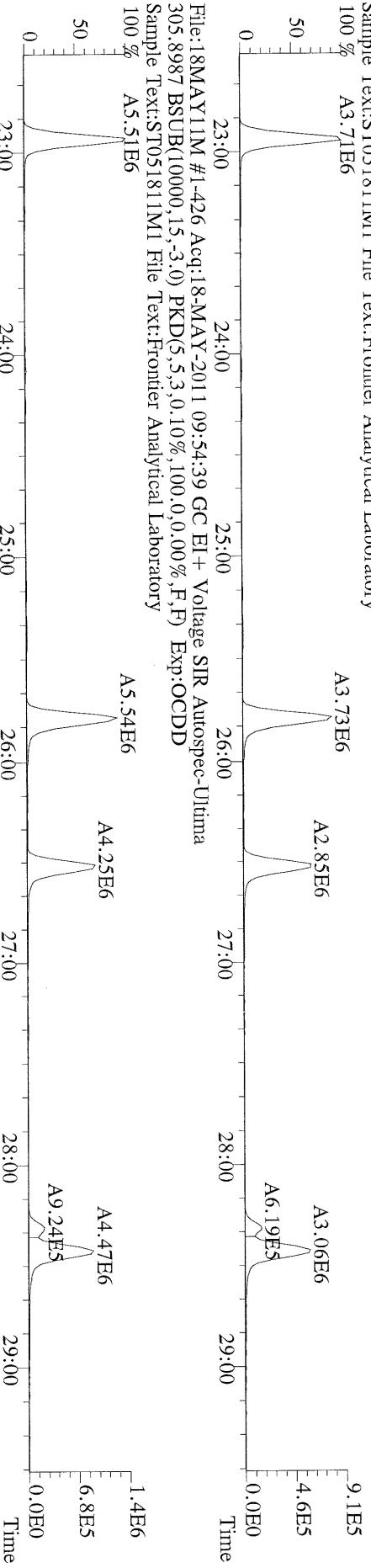
File:18MAY11M #1-347 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory
 100 %



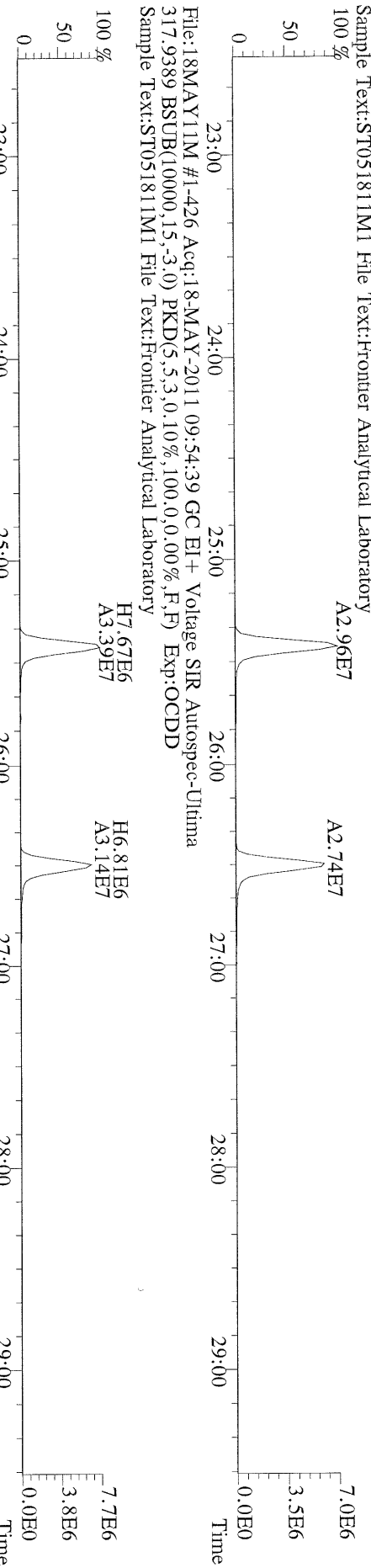
File:18MAY11M #1-347 Acq:18-MAY-2011 09:54:39 GC EI+ Voltage SIR Autospec-Ultima
 454.9728 F:5 Exp:OCDD
 Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory
 100 %



File:18MAY11M #1-426 Acq:18-MAY-2011 09:54:39 GC EI + Voltage SIR Autospec-Ultima
303.9016 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,P) Exp:OCDD
Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



File:18MAY11M #1-426 Acq:18-MAY-2011 09:54:39 GC EI + Voltage SIR Autospec-Ultima
315.9419 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,P) Exp:OCDD
Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory



File:18MAY11M #1-426 Acq:18-MAY-2011 09:54:39 GC EI + Voltage SIR Autospec-Ultima
375.8364 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,P) Exp:OCDD
Sample Text:ST051811M1 File Text:Frontier Analytical Laboratory

