August 2, 2018

Gretchen Heavner, Ph.D.
Floyd Snider
601 Union St. Ste. 600
Seattle, WA 98101

Dear Dr. Heavner,

Enclosed are the results for Frontier Analytical Laboratory project **11703**. These results correspond to your project **LDW ENR/AC Pilot Study** and project number **LY15160310**. Fourteen hexane solvent samples were received on 7/3/2018 in good condition. Per your request, the following samples were prepared however not analyzed; 11703-004-SA, 11703-005-SA, 11703-009-SA, 11703-010-SA, and 11703-014-SA (Floyd Snider IDs: LDW-Y1-SC-ENR+AC-CD-S010, LDW-Y1-SC-ENR+AC-CE-S010, LDW-Y1-SC-ENR-CD-S010, LDW-Y1-SC-ENR-CE-S010, and LDW-Y1-SU-ENR+AC-CD-S010 respectively).The remaining nine samples were extracted and analyzed following EPA Method 1668C for all 209 polychlorinated biphenyls (PCBs). The total PCB concentration is listed in the upper right hand corner of the first data page (Page 1 of 3) of each EPA Method 1668C sample. A turnaround time of fifteen business days was requested for project **11703**.

The following Level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section and an Instrument Raw Data section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and the sample photos. The Laboratory Raw Data section contains our project request sheet, a percent solids sheet, an extraction bench sheet and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms and chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all beginning and ending calibration injections associated with the samples and QC. The enclosed results are specifically for the samples referenced in this report only. These results meet all National Environmental Laboratory Accreditation Program (NELAP) requirements and shall not be reproduced except in full. Frontier Analytical Laboratory's State of Oregon NELAP certificate number is **4041**. Our State of Washington ELAP certificate number is **C844**. This report and the EDD have been emailed to you. A portable document format (PDF) file of this report has been uploaded to your website using Sharefile.

If you have any questions regarding project **11703**, please feel free to contact me at 916-934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **11703**

Received on: **07/03/2018** Project Due: **08/01/2018** Storage: **R-3**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
11703-001-SA	0	LY15160310	LDW-Y1-SC-ENR+AC-CA-S010	EPA 1668 PCB	Solvent	06/30/2018	02:30 pm	06/30/2019
11703-002-SA	0	LY15160310	LDW-Y1-SC-ENR+AC-CB-S010	EPA 1668 PCB	Solvent	06/30/2018	02:38 pm	06/30/2019
11703-003-SA	0	LY15160310	LDW-Y1-SC-ENR+AC-CC-S010	EPA 1668 PCB	Solvent	06/30/2018	02:45 pm	06/30/2019
11703-004-SA	0	LY15160310	LDW-Y1-SC-ENR+AC-CD-S010	EPA 1668 PCB	Solvent	06/30/2018	02:52 pm	06/30/2019
11703-005-SA	0	LY15160310	LDW-Y1-SC-ENR+AC-CE-S010	EPA 1668 PCB	Solvent	06/30/2018	02:59 pm	06/30/2019
11703-006-SA	0	LY15160310	LDW-Y1-SC-ENR-CA-S010	EPA 1668 PCB	Solvent	06/30/2018	03:29 pm	06/30/2019
11703-007-SA	0	LY15160310	LDW-Y1-SC-ENR-CB-S010	EPA 1668 PCB	Solvent	06/30/2018	03:36 pm	06/30/2019
11703-008-SA	0	LY15160310	LDW-Y1-SC-ENR-CC-S010	EPA 1668 PCB	Solvent	06/30/2018	03:43 pm	06/30/2019
11703-009-SA	0	LY15160310	LDW-Y1-SC-ENR-CD-S010	EPA 1668 PCB	Solvent	06/30/2018	03:49 pm	06/30/2019
11703-010-SA	0	LY15160310	LDW-Y1-SC-ENR-CE-S010	EPA 1668 PCB	Solvent	06/30/2018	03:55 pm	06/30/2019
11703-011-SA	0	LY15160310	LDW-Y1-SU-ENR+AC-CA-S010	EPA 1668 PCB	Solvent	06/30/2018	11:45 am	06/30/2019
11703-012-SA	0	LY15160310	LDW-Y1-SU-ENR+AC-CB-S010	EPA 1668 PCB	Solvent	06/30/2018	11:54 am	06/30/2019
11703-013-SA	0	LY15160310	LDW-Y1-SU-ENR+AC-CC-S010	EPA 1668 PCB	Solvent	06/30/2018	12:03 pm	06/30/2019
11703-014-SA	0	LY15160310	LDW-Y1-SU-ENR+AC-CD-S010	EPA 1668 PCB	Solvent	06/30/2018	12:13 pm	06/30/2019

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EPA Method 1668
PCBs

FAL ID: 11703-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018
Total Conc: 0.0

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.16			PCB-51	ND	4.74		
PCB-2	ND	3.59			PCB-52	ND	3.95	C	69
PCB-3	ND	3.30			PCB-53	ND	4.84		
PCB-4	ND	4.69			PCB-54	ND	3.71		
PCB-5	ND	4.52			PCB-55	ND	3.83		
PCB-6	ND	4.59			PCB-56	ND	4.69	C	60
PCB-7	ND	4.38			PCB-57	ND	4.07		
PCB-8	ND	4.52			PCB-58	ND	4.17		
PCB-9	ND	4.36			PCB-59	-	-	C042	42
PCB-10	ND	5.04			PCB-60	-	-	C056	56
PCB-11	ND	4.93			PCB-61	ND	3.78	C	70
PCB-12	ND	4.71			PCB-62	ND	4.08		
PCB-13	ND	4.64			PCB-63	ND	3.99		
PCB-14	ND	4.67			PCB-64	-	-	C041	41/71/72
PCB-15	ND	4.57			PCB-65	ND	3.89		
PCB-16	ND	5.04			PCB-66	ND	3.81	C	76
PCB-17	ND	5.56			PCB-67	ND	3.78		
PCB-18	ND	6.01			PCB-68	ND	3.67		
PCB-19	ND	5.76			PCB-69	-	-	C052	52
PCB-20	ND	4.19	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	4.18			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.71			PCB-73	ND	4.03		
PCB-24	ND	4.06			PCB-74	ND	3.57		
PCB-25	ND	3.81			PCB-75	-	-	C048	48
PCB-26	ND	4.97			PCB-76	-	-	C066	66
PCB-27	ND	4.60			PCB-77	ND	4.92		
PCB-28	ND	3.61			PCB-78	ND	4.90		
PCB-29	ND	4.53			PCB-79	ND	4.71		
PCB-30	ND	4.22			PCB-80	ND	3.49		
PCB-31	ND	4.64			PCB-81	ND	4.57		
PCB-32	ND	4.88			PCB-82	ND	9.60		
PCB-33	-	-	C020	20/21	PCB-83	ND	7.01	C	112
PCB-34	ND	5.04			PCB-84	ND	7.62	C	92
PCB-35	ND	4.81			PCB-85	ND	6.43	C	116
PCB-36	ND	4.60			PCB-86	ND	7.50		
PCB-37	ND	4.25			PCB-87	ND	6.19	C	117/125
PCB-38	ND	4.63			PCB-88	ND	7.78	C	91
PCB-39	ND	4.47			PCB-89	ND	7.92		
PCB-40	ND	6.41			PCB-90	ND	6.91	C	101
PCB-41	ND	3.94	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	4.20	C	59	PCB-92	-	-	C084	84
PCB-43	ND	5.11	C	49	PCB-93	ND	8.65		
PCB-44	ND	5.57			PCB-94	ND	8.57		
PCB-45	ND	5.69			PCB-95	ND	7.94		
PCB-46	ND	5.77			PCB-96	ND	6.33		
PCB-47	ND	4.32			PCB-97	ND	6.33		
PCB-48	ND	3.92	C	75	PCB-98	ND	7.12	C	102
PCB-49	-	-	C043	43	PCB-99	ND	5.85		
PCB-50	ND	4.94			PCB-100	ND	7.27		

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EPA Method 1668
PCBs

FAL ID: 11703-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	6.61		
PCB-102	-	-	C098	98	PCB-152	ND	3.59		
PCB-103	ND	7.28			PCB-153	ND	5.83		
PCB-104	ND	5.60			PCB-154	ND	3.97		
PCB-105	ND	8.64			PCB-155	ND	3.03		
PCB-106	ND	8.05	C	118	PCB-156	ND	5.69		
PCB-107	ND	7.73	C	108	PCB-157	ND	5.07		
PCB-108	-	-	C107	107	PCB-158	ND	5.14	C	160
PCB-109	ND	5.77			PCB-159	ND	5.03		
PCB-110	ND	5.35			PCB-160	-	-	C158	158
PCB-111	ND	5.05	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	6.59			PCB-163	-	-	C138	138/164
PCB-114	ND	7.62			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	5.48		
PCB-117	-	-	C087	87/125	PCB-167	ND	5.54		
PCB-118	-	-	C	106	PCB-168	ND	5.23		
PCB-119	ND	5.47			PCB-169	ND	5.47		
PCB-120	ND	5.51			PCB-170	ND	5.61		
PCB-121	ND	6.53			PCB-171	ND	5.08		
PCB-122	ND	7.90			PCB-172	ND	5.33		
PCB-123	ND	6.35			PCB-173	ND	5.38		
PCB-124	ND	8.19			PCB-174	ND	5.20		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.98		
PCB-126	ND	9.27			PCB-176	ND	3.85		
PCB-127	ND	8.95			PCB-177	ND	5.33		
PCB-128	ND	6.07	C	162	PCB-178	ND	5.27		
PCB-129	ND	7.99			PCB-179	ND	3.77		
PCB-130	ND	7.52			PCB-180	ND	4.03		
PCB-131	ND	6.56	C	133	PCB-181	ND	4.56		
PCB-132	ND	6.04	C	161	PCB-182	ND	4.41	C	187
PCB-133	-	-	C131	131	PCB-183	ND	4.64		
PCB-134	ND	6.71	C	143	PCB-184	ND	3.46		
PCB-135	ND	6.50			PCB-185	ND	4.79		
PCB-136	ND	3.93			PCB-186	ND	3.70		
PCB-137	ND	7.08			PCB-187	-	-	C182	182
PCB-138	ND	5.13	C	163/164	PCB-188	ND	3.72		
PCB-139	ND	6.15	C	149	PCB-189	ND	3.57		
PCB-140	ND	6.35			PCB-190	ND	4.15		
PCB-141	ND	6.66			PCB-191	ND	4.02		
PCB-142	ND	7.62			PCB-192	ND	3.91		
PCB-143	-	-	C134	134	PCB-193	ND	3.76		
PCB-144	ND	6.92			PCB-194	ND	2.88		
PCB-145	ND	3.51			PCB-195	ND	3.07		
PCB-146	ND	5.63	C	165	PCB-196	ND	4.84	C	203
PCB-147	ND	6.52			PCB-197	ND	3.72		
PCB-148	ND	4.23			PCB-198	ND	5.58		
PCB-149	-	-	C139	139	PCB-199	ND	5.01		
PCB-150	ND	3.39			PCB-200	ND	4.01		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11703-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	4.11		
PCB-202	ND	3.89		
PCB-203	-	-	C196	196
PCB-204	ND	4.00		
PCB-205	ND	2.14		
PCB-206	ND	2.49		
PCB-207	ND	1.97		
PCB-208	ND	1.46		
PCB-209	ND	2.33		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	88.9	5.00 - 145	
13C-PCB-3	89.7	5.00 - 145	
13C-PCB-4	94.1	5.00 - 145	
13C-PCB-15	96.5	5.00 - 145	
13C-PCB-19	93.1	5.00 - 145	
13C-PCB-37	99.9	5.00 - 145	
13C-PCB-54	98.8	5.00 - 145	
13C-PCB-77	98.4	10.0 - 145	
13C-PCB-81	96.7	10.0 - 145	
13C-PCB-104	97.1	10.0 - 145	
13C-PCB-105	97.1	10.0 - 145	
13C-PCB-114	96.8	10.0 - 145	
13C-PCB-118	100	10.0 - 145	
13C-PCB-123	93.9	10.0 - 145	
13C-PCB-126	99.0	10.0 - 145	
13C-PCB-155	96.7	10.0 - 145	
13C-PCB-156	95.8	10.0 - 145	
13C-PCB-157	98.1	10.0 - 145	
13C-PCB-167	97.0	10.0 - 145	
13C-PCB-169	104	10.0 - 145	
13C-PCB-188	94.9	10.0 - 145	
13C-PCB-189	98.8	10.0 - 145	
13C-PCB-202	98.2	10.0 - 145	
13C-PCB-205	98.7	10.0 - 145	
13C-PCB-206	93.8	10.0 - 145	
13C-PCB-208	99.4	10.0 - 145	
13C-PCB-209	96.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	98.3	5.00 - 145	
13C-PCB-111	95.9	10.0 - 145	
13C-PCB-178	98.7	10.0 - 145	

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

Analyst: _____

Date: 8/2/2018

Reviewed By: _____

Date: 8/2/2018

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EPA Method 1668
PCBs

FAL ID: 11703-001-OPR
Client ID: OPR
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	% Recovery	QC Limits	Qual
PCB-1	113	60.0 - 135	
PCB-3	115	60.0 - 135	
PCB-4	100	60.0 - 135	
PCB-15	108	60.0 - 135	
PCB-19	116	60.0 - 135	
PCB-37	110	60.0 - 135	
PCB-54	116	60.0 - 135	
PCB-77	117	60.0 - 135	
PCB-81	115	60.0 - 135	
PCB-104	118	60.0 - 135	
PCB-105	113	60.0 - 135	
PCB-114	115	60.0 - 135	
PCB-118	129	60.0 - 135	
PCB-123	96.0	60.0 - 135	
PCB-126	109	60.0 - 135	
PCB-155	117	60.0 - 135	
PCB-156	119	60.0 - 135	
PCB-157	108	60.0 - 135	
PCB-167	122	60.0 - 135	
PCB-169	125	60.0 - 135	
PCB-188	116	60.0 - 135	
PCB-189	117	60.0 - 135	
PCB-202	126	60.0 - 135	
PCB-205	116	60.0 - 135	
PCB-206	119	60.0 - 135	
PCB-208	115	60.0 - 135	
PCB-209	117	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	91.0	15.0 - 145	
13C-PCB-3	91.1	15.0 - 145	
13C-PCB-4	93.1	15.0 - 145	
13C-PCB-15	94.4	15.0 - 145	
13C-PCB-19	94.3	15.0 - 145	
13C-PCB-37	97.2	15.0 - 145	
13C-PCB-54	100	15.0 - 145	
13C-PCB-77	95.7	40.0 - 145	
13C-PCB-81	93.5	40.0 - 145	
13C-PCB-104	97.6	40.0 - 145	
13C-PCB-105	98.7	40.0 - 145	
13C-PCB-114	95.5	40.0 - 145	
13C-PCB-118	99.0	40.0 - 145	
13C-PCB-123	97.1	40.0 - 145	
13C-PCB-126	96.7	40.0 - 145	
13C-PCB-155	94.4	40.0 - 145	
13C-PCB-156	93.1	40.0 - 145	
13C-PCB-157	97.9	40.0 - 145	
13C-PCB-167	96.0	40.0 - 145	
13C-PCB-169	93.0	40.0 - 145	
13C-PCB-188	97.6	40.0 - 145	
13C-PCB-189	95.5	40.0 - 145	
13C-PCB-202	96.9	40.0 - 145	
13C-PCB-205	93.3	40.0 - 145	
13C-PCB-206	91.3	40.0 - 145	
13C-PCB-208	94.6	40.0 - 145	
13C-PCB-209	94.8	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	99.9	15.0 - 145	
13C-PCB-111	96.1	40.0 - 145	
13C-PCB-178	100	40.0 - 145	

Analyst: _____

Date: 8/2/2018

Reviewed By: _____

Date: 8/2/2018

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EPA Method 1668
PCBs

FAL ID: 11703-001-SA
Client ID: LDW-Y1-SC-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018
Total Conc: 23900

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.97			PCB-51	14.7	-	J	
PCB-2	ND	3.56			PCB-52	215	-	C	69
PCB-3	ND	3.42			PCB-53	39.2	-		
PCB-4	ND	4.73			PCB-54	ND	3.92		
PCB-5	ND	4.49			PCB-55	23.2	-		
PCB-6	ND	4.56			PCB-56	65.2	-	C	60
PCB-7	ND	4.34			PCB-57	ND	4.29		
PCB-8	19.9	-	J		PCB-58	ND	4.40		
PCB-9	ND	4.32			PCB-59	-	-	C042	42
PCB-10	ND	5.00			PCB-60	-	-	C056	56
PCB-11	19.7	-	J		PCB-61	127	-	C	70
PCB-12	ND	4.67			PCB-62	ND	4.31		
PCB-13	ND	4.60			PCB-63	7.00	-	J	
PCB-14	109	-			PCB-64	-	-	C041	41/71/72
PCB-15	11.0	-	J		PCB-65	ND	4.11		
PCB-16	19.7	-	J		PCB-66	132	-	C	76
PCB-17	34.6	-			PCB-67	7.07	-	J	
PCB-18	68.6	-			PCB-68	ND	3.87		
PCB-19	10.0	-	J		PCB-69	-	-	C052	52
PCB-20	39.3	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	24.0	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.45			PCB-73	ND	4.25		
PCB-24	ND	3.61			PCB-74	58.2	-		
PCB-25	9.44	-	J		PCB-75	-	-	C048	48
PCB-26	20.5	-			PCB-76	-	-	C066	66
PCB-27	7.79	-	J		PCB-77	12.0	-	J	
PCB-28	75.0	-			PCB-78	1080	-		
PCB-29	ND	4.27			PCB-79	ND	5.44		
PCB-30	ND	3.75			PCB-80	ND	3.68		
PCB-31	80.1	-			PCB-81	10.8	-	J	
PCB-32	28.0	-			PCB-82	34.9	-		
PCB-33	-	-	C020	20/21	PCB-83	13.9	-	C,J	112
PCB-34	ND	4.76			PCB-84	151	-	C	92
PCB-35	ND	4.54			PCB-85	42.0	-	C	116
PCB-36	291	-			PCB-86	ND	4.74		
PCB-37	17.5	-	J		PCB-87	95.2	-	C	117/125
PCB-38	ND	4.37			PCB-88	ND	4.74	C	91
PCB-39	ND	4.22			PCB-89	ND	5.00		
PCB-40	28.4	-			PCB-90	315	-	C	101
PCB-41	125	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	53.0	-	C	59	PCB-92	-	-	C084	84
PCB-43	172	-	C	49	PCB-93	ND	5.27		
PCB-44	140	-			PCB-94	ND	5.22		
PCB-45	31.3	-			PCB-95	340	-		
PCB-46	12.3	-	J		PCB-96	ND	3.86		
PCB-47	60.5	-			PCB-97	71.2	-		
PCB-48	31.8	-	C	75	PCB-98	ND	4.34	C	102
PCB-49	-	-	C043	43	PCB-99	120	-		
PCB-50	ND	5.21			PCB-100	ND	4.43		

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EPA Method 1668
PCBs

FAL ID: 11703-001-SA
Client ID: LDW-Y1-SC-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	94.6	-		
PCB-102	-	-	C098	98	PCB-152	ND	3.99		
PCB-103	ND	4.43			PCB-153	333	-		
PCB-104	1010	-			PCB-154	17.6	-	J	
PCB-105	58.0	-			PCB-155	1990	-		
PCB-106	162	-	C	118	PCB-156	14.4	-	J	
PCB-107	14.0	-	C,J	108	PCB-157	ND	5.78		
PCB-108	-	-	C107,J	107	PCB-158	27.0	-	C	160
PCB-109	ND	3.65			PCB-159	ND	5.58		
PCB-110	242	-			PCB-160	-	-	C158	158
PCB-111	ND	3.19	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083,J	83	PCB-162	-	-	C128	128
PCB-113	ND	4.17			PCB-163	-	-	C138	138/164
PCB-114	5.31	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	6.07		
PCB-117	-	-	C087	87/125	PCB-167	9.95	-	J	
PCB-118	-	-	C	106	PCB-168	ND	5.79		
PCB-119	9.73	-	J		PCB-169	ND	6.20		
PCB-120	ND	3.48			PCB-170	51.9	-		
PCB-121	1980	-			PCB-171	18.2	-	J	
PCB-122	ND	2.59			PCB-172	72.5	-		
PCB-123	3.95	-	J		PCB-173	ND	5.51		
PCB-124	6.94	-	J		PCB-174	61.7	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	5.10		
PCB-126	ND	3.03			PCB-176	14.7	-	J	
PCB-127	ND	2.93			PCB-177	39.1	-		
PCB-128	32.2	-	C	162	PCB-178	19.4	-	J	
PCB-129	10.6	-	J		PCB-179	42.5	-		
PCB-130	20.5	-			PCB-180	112	-		
PCB-131	ND	7.28	C	133	PCB-181	ND	4.67		
PCB-132	92.4	-	C	161	PCB-182	79.9	-	C	187
PCB-133	-	-	C131	131	PCB-183	48.1	-		
PCB-134	16.2	-	C,J	143	PCB-184	2280	-		
PCB-135	52.2	-			PCB-185	ND	4.90		
PCB-136	72.7	-			PCB-186	ND	3.79		
PCB-137	ND	7.85			PCB-187	-	-	C182	182
PCB-138	240	-	C	163/164	PCB-188	ND	3.86		
PCB-139	312	-	C	149	PCB-189	ND	3.59		
PCB-140	ND	7.04			PCB-190	11.0	-	J	
PCB-141	55.9	-			PCB-191	ND	4.11		
PCB-142	3110	-			PCB-192	1560	-		
PCB-143	-	-	C134,J	134	PCB-193	ND	3.85		
PCB-144	28.7	-			PCB-194	18.3	-	J	
PCB-145	ND	3.90			PCB-195	8.50	-	J	
PCB-146	56.6	-	C	165	PCB-196	20.1	-	C	203
PCB-147	ND	7.23			PCB-197	31.4	-		
PCB-148	ND	4.70			PCB-198	ND	5.24		
PCB-149	-	-	C139	139	PCB-199	20.2	-		
PCB-150	ND	3.77			PCB-200	ND	3.76		

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EPA Method 1668
PCBs

FAL ID: 11703-001-SA
Client ID: LDW-Y1-SC-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.86		
PCB-202	ND	3.65		
PCB-203	-	-	C196	196
PCB-204	4770	-		
PCB-205	ND	2.41		
PCB-206	ND	1.32		
PCB-207	18.3	-	J	
PCB-208	ND	1.00		
PCB-209	22.2	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	86.6	5.00 - 145	
13C-PCB-3	88.2	5.00 - 145	
13C-PCB-4	92.6	5.00 - 145	
13C-PCB-15	95.9	5.00 - 145	
13C-PCB-19	92.4	5.00 - 145	
13C-PCB-37	97.9	5.00 - 145	
13C-PCB-54	97.2	5.00 - 145	
13C-PCB-77	101	10.0 - 145	
13C-PCB-81	98.3	10.0 - 145	
13C-PCB-104	95.9	10.0 - 145	
13C-PCB-105	99.8	10.0 - 145	
13C-PCB-114	97.7	10.0 - 145	
13C-PCB-118	96.3	10.0 - 145	
13C-PCB-123	95.2	10.0 - 145	
13C-PCB-126	96.9	10.0 - 145	
13C-PCB-155	94.8	10.0 - 145	
13C-PCB-156	94.3	10.0 - 145	
13C-PCB-157	94.7	10.0 - 145	
13C-PCB-167	95.3	10.0 - 145	
13C-PCB-169	94.9	10.0 - 145	
13C-PCB-188	92.3	10.0 - 145	
13C-PCB-189	96.7	10.0 - 145	
13C-PCB-202	91.5	10.0 - 145	
13C-PCB-205	92.1	10.0 - 145	
13C-PCB-206	89.0	10.0 - 145	
13C-PCB-208	88.4	10.0 - 145	
13C-PCB-209	89.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	95.8	5.00 - 145	
13C-PCB-111	93.8	10.0 - 145	
13C-PCB-178	90.7	10.0 - 145	

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

Analyst: _____

Date: 8/2/2018

Reviewed By: _____

Date: 8/2/2018

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EPA Method 1668
PCBs

FAL ID: 11703-002-SA
Client ID: LDW-Y1-SC-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018
Total Conc: 37700

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.25			PCB-51	26.4	-		
PCB-2	ND	3.72			PCB-52	363	-	C	69
PCB-3	ND	3.45			PCB-53	67.9	-		
PCB-4	ND	4.51			PCB-54	ND	3.46		
PCB-5	ND	4.21			PCB-55	33.8	-		
PCB-6	ND	4.28			PCB-56	114	-	C	60
PCB-7	ND	4.07			PCB-57	ND	3.79		
PCB-8	28.7	-			PCB-58	ND	3.89		
PCB-9	ND	4.06			PCB-59	-	-	C042	42
PCB-10	ND	4.69			PCB-60	-	-	C056	56
PCB-11	39.2	-			PCB-61	226	-	C	70
PCB-12	ND	4.39			PCB-62	ND	3.81		
PCB-13	ND	4.32			PCB-63	12.3	-	J	
PCB-14	255	-			PCB-64	-	-	C041	41/71/72
PCB-15	11.2	-	J		PCB-65	ND	3.63		
PCB-16	54.3	-			PCB-66	220	-	C	76
PCB-17	58.3	-			PCB-67	8.51	-	J	
PCB-18	119	-			PCB-68	8.39	-	J	
PCB-19	16.5	-	J		PCB-69	-	-	C052	52
PCB-20	76.0	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	45.8	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.49			PCB-73	ND	3.76		
PCB-24	10.4	-	J		PCB-74	94.4	-		
PCB-25	15.5	-	J		PCB-75	-	-	C048	48
PCB-26	33.3	-			PCB-76	-	-	C066	66
PCB-27	6.68	-	J		PCB-77	12.2	-	J	
PCB-28	137	-			PCB-78	1930	-		
PCB-29	ND	4.32			PCB-79	6.29	-	J	
PCB-30	ND	4.35			PCB-80	ND	3.25		
PCB-31	138	-			PCB-81	19.6	-	J	
PCB-32	34.9	-			PCB-82	42.9	-		
PCB-33	-	-	C020	20/21	PCB-83	20.6	-	C	112
PCB-34	ND	4.81			PCB-84	223	-	C	92
PCB-35	ND	4.58			PCB-85	59.5	-	C	116
PCB-36	566	-			PCB-86	ND	5.48		
PCB-37	28.5	-			PCB-87	135	-	C	117/125
PCB-38	ND	4.42			PCB-88	ND	4.18	C	91
PCB-39	ND	4.27			PCB-89	9.25	-	J	
PCB-40	46.7	-			PCB-90	470	-	C	101
PCB-41	209	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	91.5	-	C	59	PCB-92	-	-	C084	84
PCB-43	296	-	C	49	PCB-93	ND	4.64		
PCB-44	238	-			PCB-94	ND	4.60		
PCB-45	53.2	-			PCB-95	551	-		
PCB-46	23.2	-			PCB-96	9.69	-	J	
PCB-47	91.0	-			PCB-97	96.8	-		
PCB-48	56.6	-	C	75	PCB-98	ND	3.82	C	102
PCB-49	-	-	C043	43	PCB-99	174	-		
PCB-50	ND	4.61			PCB-100	13.6	-	J	

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EPA Method 1668
PCBs

FAL ID: 11703-002-SA
Client ID: LDW-Y1-SC-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	129	-		
PCB-102	-	-	C098	98	PCB-152	ND	3.48		
PCB-103	14.6	-	J		PCB-153	448	-		
PCB-104	1700	-			PCB-154	22.1	-		
PCB-105	85.0	-			PCB-155	3110	-		
PCB-106	244	-	C	118	PCB-156	21.4	-		
PCB-107	21.0	-	C	108	PCB-157	ND	4.78		
PCB-108	-	-	C107	107	PCB-158	33.1	-	C	160
PCB-109	ND	4.21			PCB-159	ND	4.61		
PCB-110	351	-			PCB-160	-	-	C158	158
PCB-111	6.39	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.81			PCB-163	-	-	C138	138/164
PCB-114	ND	5.50			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	5.02		
PCB-117	-	-	C087	87/125	PCB-167	12.2	-	J	
PCB-118	-	-	C	106	PCB-168	ND	4.79		
PCB-119	15.8	-	J		PCB-169	ND	5.17		
PCB-120	ND	4.02			PCB-170	61.7	-		
PCB-121	3340	-			PCB-171	22.3	-		
PCB-122	ND	5.85			PCB-172	114	-		
PCB-123	ND	4.75			PCB-173	ND	5.39		
PCB-124	12.1	-	J		PCB-174	77.3	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.98		
PCB-126	ND	6.36			PCB-176	16.4	-	J	
PCB-127	ND	6.63			PCB-177	51.0	-		
PCB-128	35.0	-	C	162	PCB-178	24.8	-		
PCB-129	13.8	-	J		PCB-179	55.5	-		
PCB-130	26.0	-			PCB-180	130	-		
PCB-131	8.69	-	C,J	133	PCB-181	ND	4.57		
PCB-132	124	-	C	161	PCB-182	121	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	61.2	-		
PCB-134	27.3	-	C	143	PCB-184	3420	-		
PCB-135	65.2	-			PCB-185	12.4	-	J	
PCB-136	108	-			PCB-186	ND	3.71		
PCB-137	13.1	-	J		PCB-187	-	-	C182	182
PCB-138	318	-	C	163/164	PCB-188	ND	3.83		
PCB-139	428	-	C	149	PCB-189	ND	3.47		
PCB-140	ND	5.82			PCB-190	17.5	-	J	
PCB-141	60.9	-			PCB-191	ND	4.02		
PCB-142	4730	-			PCB-192	2550	-		
PCB-143	-	-	C134	134	PCB-193	10.7	-	J	
PCB-144	29.6	-			PCB-194	18.4	-	J	
PCB-145	ND	3.41			PCB-195	10.1	-	J	
PCB-146	67.2	-	C	165	PCB-196	30.1	-	C	203
PCB-147	10.6	-	J		PCB-197	47.5	-		
PCB-148	ND	4.11			PCB-198	ND	4.73		
PCB-149	-	-	C139	139	PCB-199	27.2	-		
PCB-150	ND	3.29			PCB-200	ND	3.40		

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EPA Method 1668
PCBs

FAL ID: 11703-002-SA
Client ID: LDW-Y1-SC-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.48		
PCB-202	ND	3.30		
PCB-203	-	-	C196	196
PCB-204	7380	-		
PCB-205	ND	2.67		
PCB-206	ND	3.23		
PCB-207	25.2	-		
PCB-208	ND	2.52		
PCB-209	31.4	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	82.6	5.00 - 145	
13C-PCB-3	86.3	5.00 - 145	
13C-PCB-4	90.4	5.00 - 145	
13C-PCB-15	97.7	5.00 - 145	
13C-PCB-19	90.9	5.00 - 145	
13C-PCB-37	102	5.00 - 145	
13C-PCB-54	95.9	5.00 - 145	
13C-PCB-77	105	10.0 - 145	
13C-PCB-81	103	10.0 - 145	
13C-PCB-104	93.7	10.0 - 145	
13C-PCB-105	96.8	10.0 - 145	
13C-PCB-114	97.9	10.0 - 145	
13C-PCB-118	94.9	10.0 - 145	
13C-PCB-123	96.5	10.0 - 145	
13C-PCB-126	102	10.0 - 145	
13C-PCB-155	96.3	10.0 - 145	
13C-PCB-156	93.2	10.0 - 145	
13C-PCB-157	94.4	10.0 - 145	
13C-PCB-167	95.6	10.0 - 145	
13C-PCB-169	97.6	10.0 - 145	
13C-PCB-188	88.6	10.0 - 145	
13C-PCB-189	98.6	10.0 - 145	
13C-PCB-202	90.2	10.0 - 145	
13C-PCB-205	88.9	10.0 - 145	
13C-PCB-206	85.8	10.0 - 145	
13C-PCB-208	85.9	10.0 - 145	
13C-PCB-209	83.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	100	5.00 - 145	
13C-PCB-111	101	10.0 - 145	
13C-PCB-178	94.7	10.0 - 145	

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

Analyst: _____

Date: 8/2/2018

Reviewed By: _____

Date: 8/2/2018

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EPA Method 1668
PCBs

FAL ID: 11703-003-SA
Client ID: LDW-Y1-SC-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018
Total Conc: 26500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.28			PCB-51	22.7	-		
PCB-2	ND	3.88			PCB-52	318	-	C	69
PCB-3	ND	3.70			PCB-53	56.5	-		
PCB-4	ND	4.98			PCB-54	ND	3.90		
PCB-5	ND	4.67			PCB-55	26.8	-		
PCB-6	ND	4.74			PCB-56	92.7	-	C	60
PCB-7	ND	4.51			PCB-57	ND	4.28		
PCB-8	35.9	-			PCB-58	ND	4.38		
PCB-9	ND	4.50			PCB-59	-	-	C042	42
PCB-10	ND	5.20			PCB-60	-	-	C056	56
PCB-11	42.1	-			PCB-61	192	-	C	70
PCB-12	ND	4.86			PCB-62	ND	4.29		
PCB-13	ND	4.78			PCB-63	9.45	-	J	
PCB-14	163	-			PCB-64	-	-	C041	41/71/72
PCB-15	20.8	-			PCB-65	ND	4.09		
PCB-16	33.9	-			PCB-66	181	-	C	76
PCB-17	59.1	-			PCB-67	9.61	-	J	
PCB-18	121	-			PCB-68	7.86	-	J	
PCB-19	15.8	-	J		PCB-69	-	-	C052	52
PCB-20	67.0	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	40.3	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	5.18			PCB-73	ND	4.24		
PCB-24	5.67	-	J		PCB-74	86.0	-		
PCB-25	14.6	-	J		PCB-75	-	-	C048	48
PCB-26	36.6	-			PCB-76	-	-	C066	66
PCB-27	13.1	-	J		PCB-77	14.6	-	J	
PCB-28	132	-			PCB-78	1250	-		
PCB-29	ND	4.98			PCB-79	4.87	-	J	
PCB-30	ND	2.36			PCB-80	7.66	-	J	
PCB-31	118	-			PCB-81	12.2	-	J	
PCB-32	49.2	-			PCB-82	40.3	-		
PCB-33	-	-	C020	20/21	PCB-83	16.1	-	C,J	112
PCB-34	ND	5.55			PCB-84	181	-	C	92
PCB-35	ND	5.29			PCB-85	47.1	-	C	116
PCB-36	362	-			PCB-86	ND	4.39		
PCB-37	24.7	-			PCB-87	117	-	C	117/125
PCB-38	ND	5.10			PCB-88	ND	5.27	C	91
PCB-39	ND	4.92			PCB-89	5.92	-	J	
PCB-40	42.4	-			PCB-90	396	-	C	101
PCB-41	179	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	83.6	-	C	59	PCB-92	-	-	C084	84
PCB-43	252	-	C	49	PCB-93	ND	5.85		
PCB-44	206	-			PCB-94	ND	5.80		
PCB-45	47.8	-			PCB-95	454	-		
PCB-46	20.2	-			PCB-96	ND	4.29		
PCB-47	83.4	-			PCB-97	76.6	-		
PCB-48	46.9	-	C	75	PCB-98	ND	4.82	C	102
PCB-49	-	-	C043	43	PCB-99	141	-		
PCB-50	ND	5.19			PCB-100	ND	4.92		

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EPA Method 1668
PCBs

FAL ID: 11703-003-SA
Client ID: LDW-Y1-SC-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	112	-		
PCB-102	-	-	C098	98	PCB-152	ND	4.27		
PCB-103	15.2	-	J		PCB-153	356	-		
PCB-104	1030	-			PCB-154	18.5	-	J	
PCB-105	69.3	-			PCB-155	2090	-		
PCB-106	198	-	C	118	PCB-156	20.5	-		
PCB-107	16.5	-	C,J	108	PCB-157	ND	4.58		
PCB-108	-	-	C107,J	107	PCB-158	29.7	-	C	160
PCB-109	ND	3.38			PCB-159	ND	4.37		
PCB-110	302	-			PCB-160	-	-	C158	158
PCB-111	ND	2.96	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083,J	83	PCB-162	-	-	C128	128
PCB-113	ND	3.86			PCB-163	-	-	C138	138/164
PCB-114	6.01	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.76		
PCB-117	-	-	C087	87/125	PCB-167	9.31	-	J	
PCB-118	-	-	C	106	PCB-168	ND	4.54		
PCB-119	11.6	-	J		PCB-169	ND	4.48		
PCB-120	ND	3.23			PCB-170	38.9	-		
PCB-121	2090	-			PCB-171	18.8	-	J	
PCB-122	ND	3.64			PCB-172	70.0	-		
PCB-123	6.26	-	J		PCB-173	ND	5.17		
PCB-124	16.0	-	J		PCB-174	61.8	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.78		
PCB-126	ND	4.29			PCB-176	19.9	-	J	
PCB-127	ND	4.13			PCB-177	41.2	-		
PCB-128	36.1	-	C	162	PCB-178	22.3	-		
PCB-129	18.4	-	J		PCB-179	45.9	-		
PCB-130	22.0	-			PCB-180	102	-		
PCB-131	8.43	-	C,J	133	PCB-181	ND	4.38		
PCB-132	98.1	-	C	161	PCB-182	89.6	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	44.6	-		
PCB-134	17.5	-	C,J	143	PCB-184	2320	-		
PCB-135	53.9	-			PCB-185	ND	4.60		
PCB-136	84.5	-			PCB-186	ND	3.56		
PCB-137	ND	6.15			PCB-187	-	-	C182	182
PCB-138	254	-	C	163/164	PCB-188	ND	3.54		
PCB-139	353	-	C	149	PCB-189	ND	3.47		
PCB-140	ND	5.52			PCB-190	ND	3.98		
PCB-141	57.0	-			PCB-191	ND	3.86		
PCB-142	3230	-			PCB-192	1710	-		
PCB-143	-	-	C134,J	134	PCB-193	10.3	-	J	
PCB-144	28.8	-			PCB-194	16.3	-	J	
PCB-145	ND	4.17			PCB-195	7.25	-	J	
PCB-146	60.8	-	C	165	PCB-196	23.7	-	C	203
PCB-147	7.97	-	J		PCB-197	26.7	-		
PCB-148	ND	5.03			PCB-198	ND	4.47		
PCB-149	-	-	C139	139	PCB-199	21.8	-		
PCB-150	ND	4.04			PCB-200	ND	3.21		

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EPA Method 1668
PCBs

FAL ID: 11703-003-SA
Client ID: LDW-Y1-SC-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.29		
PCB-202	ND	3.11		
PCB-203	-	-	C196	196
PCB-204	4930	-		
PCB-205	ND	2.34		
PCB-206	ND	3.28		
PCB-207	18.2	-	J	
PCB-208	ND	2.36		
PCB-209	23.7	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	87.4	5.00 - 145	
13C-PCB-3	85.6	5.00 - 145	
13C-PCB-4	90.9	5.00 - 145	
13C-PCB-15	99.9	5.00 - 145	
13C-PCB-19	89.7	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	94.4	5.00 - 145	
13C-PCB-77	102	10.0 - 145	
13C-PCB-81	99.5	10.0 - 145	
13C-PCB-104	96.8	10.0 - 145	
13C-PCB-105	100	10.0 - 145	
13C-PCB-114	101	10.0 - 145	
13C-PCB-118	99.3	10.0 - 145	
13C-PCB-123	94.5	10.0 - 145	
13C-PCB-126	102	10.0 - 145	
13C-PCB-155	93.0	10.0 - 145	
13C-PCB-156	93.0	10.0 - 145	
13C-PCB-157	94.9	10.0 - 145	
13C-PCB-167	94.5	10.0 - 145	
13C-PCB-169	96.7	10.0 - 145	
13C-PCB-188	90.6	10.0 - 145	
13C-PCB-189	95.6	10.0 - 145	
13C-PCB-202	91.4	10.0 - 145	
13C-PCB-205	90.0	10.0 - 145	
13C-PCB-206	82.4	10.0 - 145	
13C-PCB-208	85.6	10.0 - 145	
13C-PCB-209	83.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	101	5.00 - 145	
13C-PCB-111	97.0	10.0 - 145	
13C-PCB-178	92.3	10.0 - 145	

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

Analyst: _____

Date: 8/2/2018

Reviewed By: _____

Date: 8/2/2018

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EPA Method 1668
PCBs

FAL ID: 11703-006-SA
Client ID: LDW-Y1-SC-ENR-CA-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018
Total Conc: 36800

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.29			PCB-51	46.3	-		
PCB-2	ND	3.76			PCB-52	577	-	C	69
PCB-3	ND	3.46			PCB-53	130	-		
PCB-4	ND	4.99			PCB-54	ND	4.45		
PCB-5	ND	4.49			PCB-55	38.0	-		
PCB-6	26.0	-			PCB-56	156	-	C	60
PCB-7	ND	4.35			PCB-57	ND	4.87		
PCB-8	63.0	-			PCB-58	ND	4.99		
PCB-9	ND	4.33			PCB-59	-	-	C042	42
PCB-10	ND	5.01			PCB-60	-	-	C056	56
PCB-11	49.0	-			PCB-61	315	-	C	70
PCB-12	ND	4.68			PCB-62	ND	4.89		
PCB-13	ND	4.61			PCB-63	15.5	-	J	
PCB-14	191	-			PCB-64	-	-	C041	41/71/72
PCB-15	27.0	-			PCB-65	ND	4.66		
PCB-16	64.9	-			PCB-66	315	-	C	76
PCB-17	94.7	-			PCB-67	13.5	-	J	
PCB-18	212	-			PCB-68	10.9	-	J	
PCB-19	33.3	-			PCB-69	-	-	C052	52
PCB-20	109	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	68.4	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.24			PCB-73	ND	4.82		
PCB-24	7.91	-	J		PCB-74	150	-		
PCB-25	31.0	-			PCB-75	-	-	C048	48
PCB-26	55.1	-			PCB-76	-	-	C066	66
PCB-27	29.6	-			PCB-77	23.8	-		
PCB-28	241	-			PCB-78	1460	-		
PCB-29	ND	6.96			PCB-79	7.75	-	J	
PCB-30	ND	4.60			PCB-80	ND	4.17		
PCB-31	198	-			PCB-81	16.4	-	J	
PCB-32	93.9	-			PCB-82	61.8	-		
PCB-33	-	-	C020	20/21	PCB-83	31.0	-	C	112
PCB-34	ND	7.75			PCB-84	324	-	C	92
PCB-35	ND	7.39			PCB-85	82.1	-	C	116
PCB-36	421	-			PCB-86	ND	4.87		
PCB-37	40.8	-			PCB-87	195	-	C	117/125
PCB-38	ND	7.12			PCB-88	ND	3.79	C	91
PCB-39	ND	6.87			PCB-89	12.1	-	J	
PCB-40	80.4	-			PCB-90	686	-	C	101
PCB-41	332	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	146	-	C	59	PCB-92	-	-	C084	84
PCB-43	469	-	C	49	PCB-93	ND	4.21		
PCB-44	372	-			PCB-94	ND	4.17		
PCB-45	104	-			PCB-95	836	-		
PCB-46	40.0	-			PCB-96	13.9	-	J	
PCB-47	152	-			PCB-97	134	-		
PCB-48	90.1	-	C	75	PCB-98	ND	3.47	C	102
PCB-49	-	-	C043	43	PCB-99	250	-		
PCB-50	ND	5.91			PCB-100	16.0	-	J	

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EPA Method 1668
PCBs

FAL ID: 11703-006-SA
Client ID: LDW-Y1-SC-ENR-CA-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	179	-		
PCB-102	-	-	C098	98	PCB-152	ND	3.47		
PCB-103	19.6	-	J		PCB-153	567	-		
PCB-104	1310	-			PCB-154	22.0	-		
PCB-105	126	-			PCB-155	2700	-		
PCB-106	336	-	C	118	PCB-156	21.4	-		
PCB-107	26.4	-	C	108	PCB-157	ND	4.67		
PCB-108	-	-	C107	107	PCB-158	47.8	-	C	160
PCB-109	ND	3.75			PCB-159	8.11	-	J	
PCB-110	531	-			PCB-160	-	-	C158	158
PCB-111	7.58	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.28			PCB-163	-	-	C138	138/164
PCB-114	11.0	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.80		
PCB-117	-	-	C087	87/125	PCB-167	15.9	-	J	
PCB-118	-	-	C	106	PCB-168	ND	4.58		
PCB-119	22.0	-			PCB-169	ND	4.37		
PCB-120	ND	3.58			PCB-170	73.5	-		
PCB-121	2590	-			PCB-171	29.9	-		
PCB-122	5.61	-	J		PCB-172	105	-		
PCB-123	5.84	-	J		PCB-173	ND	4.90		
PCB-124	16.6	-	J		PCB-174	101	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.54		
PCB-126	ND	3.75			PCB-176	21.8	-		
PCB-127	ND	3.81			PCB-177	56.1	-		
PCB-128	52.7	-	C	162	PCB-178	30.8	-		
PCB-129	21.2	-			PCB-179	62.8	-		
PCB-130	33.1	-			PCB-180	149	-		
PCB-131	13.0	-	C,J	133	PCB-181	ND	4.16		
PCB-132	162	-	C	161	PCB-182	130	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	64.1	-		
PCB-134	24.8	-	C	143	PCB-184	2960	-		
PCB-135	91.5	-			PCB-185	13.7	-	J	
PCB-136	144	-			PCB-186	ND	3.37		
PCB-137	20.3	-			PCB-187	-	-	C182	182
PCB-138	421	-	C	163/164	PCB-188	ND	3.39		
PCB-139	562	-	C	149	PCB-189	ND	3.26		
PCB-140	8.95	-	J		PCB-190	15.5	-	J	
PCB-141	93.9	-			PCB-191	ND	3.66		
PCB-142	4050	-			PCB-192	2120	-		
PCB-143	-	-	C134	134	PCB-193	14.2	-	J	
PCB-144	45.5	-			PCB-194	22.2	-		
PCB-145	ND	3.39			PCB-195	12.1	-	J	
PCB-146	90.7	-	C	165	PCB-196	32.6	-	C	203
PCB-147	16.2	-	J		PCB-197	34.6	-		
PCB-148	ND	4.09			PCB-198	ND	4.82		
PCB-149	-	-	C139	139	PCB-199	26.6	-		
PCB-150	ND	3.28			PCB-200	ND	3.46		

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EPA Method 1668
PCBs

FAL ID: 11703-006-SA
Client ID: LDW-Y1-SC-ENR-CA-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.55		
PCB-202	ND	3.36		
PCB-203	-	-	C196	196
PCB-204	6500	-		
PCB-205	ND	2.23		
PCB-206	7.05	-	J	
PCB-207	25.0	-		
PCB-208	4.47	-	J	
PCB-209	28.2	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	81.0	5.00 - 145	
13C-PCB-3	86.4	5.00 - 145	
13C-PCB-4	92.4	5.00 - 145	
13C-PCB-15	103	5.00 - 145	
13C-PCB-19	93.8	5.00 - 145	
13C-PCB-37	106	5.00 - 145	
13C-PCB-54	98.5	5.00 - 145	
13C-PCB-77	109	10.0 - 145	
13C-PCB-81	107	10.0 - 145	
13C-PCB-104	100	10.0 - 145	
13C-PCB-105	105	10.0 - 145	
13C-PCB-114	106	10.0 - 145	
13C-PCB-118	105	10.0 - 145	
13C-PCB-123	99.4	10.0 - 145	
13C-PCB-126	108	10.0 - 145	
13C-PCB-155	97.6	10.0 - 145	
13C-PCB-156	97.2	10.0 - 145	
13C-PCB-157	99.0	10.0 - 145	
13C-PCB-167	97.5	10.0 - 145	
13C-PCB-169	102	10.0 - 145	
13C-PCB-188	96.1	10.0 - 145	
13C-PCB-189	99.2	10.0 - 145	
13C-PCB-202	94.4	10.0 - 145	
13C-PCB-205	94.2	10.0 - 145	
13C-PCB-206	86.9	10.0 - 145	
13C-PCB-208	87.6	10.0 - 145	
13C-PCB-209	86.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	105	5.00 - 145	
13C-PCB-111	104	10.0 - 145	
13C-PCB-178	97.7	10.0 - 145	

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

Analyst: _____

Date: 8/2/2018

Reviewed By: _____

Date: 8/2/2018

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EPA Method 1668
PCBs

FAL ID: 11703-007-SA
Client ID: LDW-Y1-SC-ENR-CB-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018
Total Conc: 42300

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.34			PCB-51	45.9	-		
PCB-2	ND	3.96			PCB-52	559	-	C	69
PCB-3	ND	3.78			PCB-53	121	-		
PCB-4	33.2	-			PCB-54	6.00	-	J	
PCB-5	ND	4.89			PCB-55	39.1	-		
PCB-6	41.2	-			PCB-56	151	-	C	60
PCB-7	ND	4.73			PCB-57	5.51	-	J	
PCB-8	80.0	-			PCB-58	ND	4.87		
PCB-9	ND	4.71			PCB-59	-	-	C042	42
PCB-10	ND	5.45			PCB-60	-	-	C056	56
PCB-11	83.4	-			PCB-61	293	-	C	70
PCB-12	ND	5.09			PCB-62	ND	4.76		
PCB-13	ND	5.01			PCB-63	15.1	-	J	
PCB-14	300	-			PCB-64	-	-	C041	41/71/72
PCB-15	37.8	-			PCB-65	ND	4.54		
PCB-16	70.2	-			PCB-66	313	-	C	76
PCB-17	109	-			PCB-67	12.4	-	J	
PCB-18	245	-			PCB-68	13.0	-	J	
PCB-19	35.5	-			PCB-69	-	-	C052	52
PCB-20	128	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	79.3	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.07			PCB-73	ND	4.70		
PCB-24	17.0	-	J		PCB-74	142	-		
PCB-25	32.8	-			PCB-75	-	-	C048	48
PCB-26	66.7	-			PCB-76	-	-	C066	66
PCB-27	21.4	-			PCB-77	21.0	-		
PCB-28	250	-			PCB-78	2010	-		
PCB-29	ND	6.79			PCB-79	7.76	-	J	
PCB-30	ND	4.50			PCB-80	7.32	-	J	
PCB-31	251	-			PCB-81	23.0	-		
PCB-32	108	-			PCB-82	59.3	-		
PCB-33	-	-	C020	20/21	PCB-83	32.4	-	C	112
PCB-34	ND	7.56			PCB-84	317	-	C	92
PCB-35	ND	7.21			PCB-85	72.5	-	C	116
PCB-36	598	-			PCB-86	ND	6.95		
PCB-37	42.8	-			PCB-87	181	-	C	117/125
PCB-38	ND	6.95			PCB-88	ND	3.36	C	91
PCB-39	ND	6.71			PCB-89	10.8	-	J	
PCB-40	79.5	-			PCB-90	622	-	C	101
PCB-41	314	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	148	-	C	59	PCB-92	-	-	C084	84
PCB-43	443	-	C	49	PCB-93	ND	3.73		
PCB-44	355	-			PCB-94	ND	3.70		
PCB-45	97.7	-			PCB-95	753	-		
PCB-46	43.0	-			PCB-96	9.99	-	J	
PCB-47	139	-			PCB-97	128	-		
PCB-48	93.1	-	C	75	PCB-98	ND	3.07	C	102
PCB-49	-	-	C043	43	PCB-99	236	-		
PCB-50	7.14	-	J		PCB-100	15.5	-	J	

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EPA Method 1668
PCBs

FAL ID: 11703-007-SA
Client ID: LDW-Y1-SC-ENR-CB-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	168	-		
PCB-102	-	-	C098	98	PCB-152	ND	3.39		
PCB-103	21.8	-			PCB-153	508	-		
PCB-104	1490	-			PCB-154	21.7	-		
PCB-105	98.8	-			PCB-155	3120	-		
PCB-106	299	-	C	118	PCB-156	26.2	-		
PCB-107	26.4	-	C	108	PCB-157	6.83	-	J	
PCB-108	-	-	C107	107	PCB-158	40.5	-	C	160
PCB-109	ND	5.35			PCB-159	ND	3.32		
PCB-110	473	-			PCB-160	-	-	C158	158
PCB-111	13.8	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	6.11			PCB-163	-	-	C138	138/164
PCB-114	9.76	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.62		
PCB-117	-	-	C087	87/125	PCB-167	11.6	-	J	
PCB-118	-	-	C	106	PCB-168	ND	3.45		
PCB-119	19.5	-	J		PCB-169	ND	3.47		
PCB-120	ND	5.11			PCB-170	54.1	-		
PCB-121	3190	-			PCB-171	22.7	-		
PCB-122	4.74	-	J		PCB-172	118	-		
PCB-123	5.90	-	J		PCB-173	ND	5.61		
PCB-124	17.6	-	J		PCB-174	88.0	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	5.19		
PCB-126	ND	2.60			PCB-176	18.8	-	J	
PCB-127	ND	2.38			PCB-177	44.0	-		
PCB-128	39.3	-	C	162	PCB-178	24.0	-		
PCB-129	25.2	-			PCB-179	55.8	-		
PCB-130	ND	4.97			PCB-180	127	-		
PCB-131	10.8	-	C,J	133	PCB-181	ND	4.76		
PCB-132	142	-	C	161	PCB-182	115	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	64.5	-		
PCB-134	29.5	-	C	143	PCB-184	3690	-		
PCB-135	67.1	-			PCB-185	ND	4.99		
PCB-136	116	-			PCB-186	ND	3.86		
PCB-137	12.3	-	J		PCB-187	-	-	C182	182
PCB-138	353	-	C	163/164	PCB-188	ND	3.90		
PCB-139	501	-	C	149	PCB-189	ND	3.70		
PCB-140	ND	4.20			PCB-190	13.7	-	J	
PCB-141	75.3	-			PCB-191	ND	4.19		
PCB-142	5190	-			PCB-192	2810	-		
PCB-143	-	-	C134	134	PCB-193	23.2	-		
PCB-144	31.6	-			PCB-194	17.5	-	J	
PCB-145	ND	3.31			PCB-195	7.95	-	J	
PCB-146	86.0	-	C	165	PCB-196	25.4	-	C	203
PCB-147	10.2	-	J		PCB-197	46.4	-		
PCB-148	ND	3.99			PCB-198	ND	3.78		
PCB-149	-	-	C139	139	PCB-199	25.0	-		
PCB-150	ND	3.20			PCB-200	ND	2.72		

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EPA Method 1668
PCBs

FAL ID: 11703-007-SA
Client ID: LDW-Y1-SC-ENR-CB-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.78		
PCB-202	ND	2.64		
PCB-203	-	-	C196	196
PCB-204	7970	-		
PCB-205	ND	2.55		
PCB-206	ND	5.16		
PCB-207	29.7	-		
PCB-208	ND	3.63		
PCB-209	34.9	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	84.0	5.00 - 145	
13C-PCB-3	85.5	5.00 - 145	
13C-PCB-4	90.4	5.00 - 145	
13C-PCB-15	91.8	5.00 - 145	
13C-PCB-19	87.6	5.00 - 145	
13C-PCB-37	99.7	5.00 - 145	
13C-PCB-54	91.7	5.00 - 145	
13C-PCB-77	96.1	10.0 - 145	
13C-PCB-81	95.6	10.0 - 145	
13C-PCB-104	94.5	10.0 - 145	
13C-PCB-105	96.4	10.0 - 145	
13C-PCB-114	98.9	10.0 - 145	
13C-PCB-118	96.2	10.0 - 145	
13C-PCB-123	92.5	10.0 - 145	
13C-PCB-126	97.5	10.0 - 145	
13C-PCB-155	93.0	10.0 - 145	
13C-PCB-156	88.2	10.0 - 145	
13C-PCB-157	95.7	10.0 - 145	
13C-PCB-167	91.5	10.0 - 145	
13C-PCB-169	91.4	10.0 - 145	
13C-PCB-188	88.2	10.0 - 145	
13C-PCB-189	91.6	10.0 - 145	
13C-PCB-202	90.7	10.0 - 145	
13C-PCB-205	88.1	10.0 - 145	
13C-PCB-206	81.6	10.0 - 145	
13C-PCB-208	86.2	10.0 - 145	
13C-PCB-209	80.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	98.6	5.00 - 145	
13C-PCB-111	93.5	10.0 - 145	
13C-PCB-178	89.8	10.0 - 145	

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

Analyst: _____

Date: 8/2/2018

Reviewed By: _____

Date: 8/2/2018

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EPA Method 1668
PCBs

FAL ID: 11703-008-SA
Client ID: LDW-Y1-SC-ENR-CC-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018
Total Conc: 45200

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.28			PCB-51	55.6	-		
PCB-2	ND	3.91			PCB-52	758	-	C	69
PCB-3	ND	3.75			PCB-53	152	-		
PCB-4	55.7	-			PCB-54	ND	3.15		
PCB-5	ND	4.89			PCB-55	43.2	-		
PCB-6	53.8	-			PCB-56	232	-	C	60
PCB-7	ND	4.72			PCB-57	ND	3.45		
PCB-8	108	-			PCB-58	ND	3.54		
PCB-9	ND	4.71			PCB-59	-	-	C042	42
PCB-10	ND	5.44			PCB-60	-	-	C056	56
PCB-11	85.7	-			PCB-61	441	-	C	70
PCB-12	ND	5.09			PCB-62	ND	3.46		
PCB-13	ND	5.01			PCB-63	19.0	-	J	
PCB-14	254	-			PCB-64	-	-	C041	41/71/72
PCB-15	37.1	-			PCB-65	ND	3.30		
PCB-16	96.3	-			PCB-66	428	-	C	76
PCB-17	152	-			PCB-67	18.6	-	J	
PCB-18	330	-			PCB-68	14.6	-	J	
PCB-19	43.0	-			PCB-69	-	-	C052	52
PCB-20	181	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	107	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	3.78			PCB-73	ND	3.42		
PCB-24	17.2	-	J		PCB-74	195	-		
PCB-25	42.9	-			PCB-75	-	-	C048	48
PCB-26	92.8	-			PCB-76	-	-	C066	66
PCB-27	31.3	-			PCB-77	28.5	-		
PCB-28	331	-			PCB-78	1750	-		
PCB-29	ND	3.63			PCB-79	9.32	-	J	
PCB-30	ND	2.20			PCB-80	13.3	-	J	
PCB-31	343	-			PCB-81	29.9	-		
PCB-32	131	-			PCB-82	85.6	-		
PCB-33	-	-	C020	20/21	PCB-83	36.1	-	C	112
PCB-34	ND	4.05			PCB-84	414	-	C	92
PCB-35	ND	3.86			PCB-85	108	-	C	116
PCB-36	483	-			PCB-86	ND	6.65		
PCB-37	62.9	-			PCB-87	273	-	C	117/125
PCB-38	ND	3.72			PCB-88	ND	4.02	C	91
PCB-39	ND	3.59			PCB-89	15.3	-	J	
PCB-40	104	-			PCB-90	896	-	C	101
PCB-41	448	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	194	-	C	59	PCB-92	-	-	C084	84
PCB-43	609	-	C	49	PCB-93	ND	4.47		
PCB-44	508	-			PCB-94	ND	4.43		
PCB-45	127	-			PCB-95	1060	-		
PCB-46	49.6	-			PCB-96	15.5	-	J	
PCB-47	205	-			PCB-97	178	-		
PCB-48	112	-	C	75	PCB-98	ND	3.68	C	102
PCB-49	-	-	C043	43	PCB-99	336	-		
PCB-50	ND	4.19			PCB-100	19.9	-	J	

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EPA Method 1668
PCBs

FAL ID: 11703-008-SA
Client ID: LDW-Y1-SC-ENR-CC-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	236	-		
PCB-102	-	-	C098	98	PCB-152	ND	3.42		
PCB-103	29.5	-			PCB-153	771	-		
PCB-104	1150	-			PCB-154	25.7	-		
PCB-105	161	-			PCB-155	2700	-		
PCB-106	440	-	C	118	PCB-156	35.1	-		
PCB-107	34.9	-	C	108	PCB-157	6.35	-	J	
PCB-108	-	-	C107	107	PCB-158	66.7	-	C	160
PCB-109	ND	5.11			PCB-159	7.47	-	J	
PCB-110	687	-			PCB-160	-	-	C158	158
PCB-111	10.7	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.84			PCB-163	-	-	C138	138/164
PCB-114	14.2	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.45		
PCB-117	-	-	C087	87/125	PCB-167	16.3	-	J	
PCB-118	-	-	C	106	PCB-168	ND	3.29		
PCB-119	23.3	-			PCB-169	ND	3.31		
PCB-120	ND	4.88			PCB-170	95.0	-		
PCB-121	2800	-			PCB-171	36.6	-		
PCB-122	7.96	-	J		PCB-172	127	-		
PCB-123	10.2	-	J		PCB-173	ND	5.05		
PCB-124	23.1	-			PCB-174	144	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.67		
PCB-126	ND	2.66			PCB-176	27.4	-		
PCB-127	ND	2.42			PCB-177	81.6	-		
PCB-128	72.2	-	C	162	PCB-178	38.9	-		
PCB-129	29.9	-			PCB-179	85.6	-		
PCB-130	41.2	-			PCB-180	196	-		
PCB-131	19.9	-	C,J	133	PCB-181	ND	4.28		
PCB-132	235	-	C	161	PCB-182	175	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	88.0	-		
PCB-134	40.6	-	C	143	PCB-184	3580	-		
PCB-135	117	-			PCB-185	18.4	-	J	
PCB-136	193	-			PCB-186	ND	3.47		
PCB-137	24.5	-			PCB-187	-	-	C182	182
PCB-138	563	-	C	163/164	PCB-188	ND	3.48		
PCB-139	780	-	C	149	PCB-189	ND	3.36		
PCB-140	ND	4.00			PCB-190	21.4	-		
PCB-141	134	-			PCB-191	ND	3.77		
PCB-142	4820	-			PCB-192	2700	-		
PCB-143	-	-	C134	134	PCB-193	20.2	-		
PCB-144	56.0	-			PCB-194	31.9	-		
PCB-145	ND	3.34			PCB-195	16.2	-	J	
PCB-146	129	-	C	165	PCB-196	41.8	-	C	203
PCB-147	14.9	-	J		PCB-197	47.5	-		
PCB-148	ND	4.03			PCB-198	ND	4.23		
PCB-149	-	-	C139	139	PCB-199	41.2	-		
PCB-150	ND	3.23			PCB-200	ND	3.04		

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EPA Method 1668
PCBs

FAL ID: 11703-008-SA
Client ID: LDW-Y1-SC-ENR-CC-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.11		
PCB-202	ND	2.95		
PCB-203	-	-	C196	196
PCB-204	7920	-		
PCB-205	ND	2.63		
PCB-206	9.64	-	J	
PCB-207	34.9	-		
PCB-208	4.37	-	J	
PCB-209	35.0	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.7	5.00 - 145	
13C-PCB-3	88.7	5.00 - 145	
13C-PCB-4	94.3	5.00 - 145	
13C-PCB-15	97.1	5.00 - 145	
13C-PCB-19	90.3	5.00 - 145	
13C-PCB-37	106	5.00 - 145	
13C-PCB-54	101	5.00 - 145	
13C-PCB-77	103	10.0 - 145	
13C-PCB-81	102	10.0 - 145	
13C-PCB-104	101	10.0 - 145	
13C-PCB-105	101	10.0 - 145	
13C-PCB-114	103	10.0 - 145	
13C-PCB-118	102	10.0 - 145	
13C-PCB-123	98.4	10.0 - 145	
13C-PCB-126	99.5	10.0 - 145	
13C-PCB-155	94.8	10.0 - 145	
13C-PCB-156	92.2	10.0 - 145	
13C-PCB-157	95.0	10.0 - 145	
13C-PCB-167	94.9	10.0 - 145	
13C-PCB-169	93.0	10.0 - 145	
13C-PCB-188	94.8	10.0 - 145	
13C-PCB-189	95.7	10.0 - 145	
13C-PCB-202	96.9	10.0 - 145	
13C-PCB-205	88.6	10.0 - 145	
13C-PCB-206	82.5	10.0 - 145	
13C-PCB-208	85.5	10.0 - 145	
13C-PCB-209	82.5	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	103	5.00 - 145	
13C-PCB-111	98.7	10.0 - 145	
13C-PCB-178	95.8	10.0 - 145	

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

Analyst: _____

Date: 8/2/2018

Reviewed By: _____

Date: 8/2/2018

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EPA Method 1668
PCBs

FAL ID: 11703-011-SA
Client ID: LDW-Y1-SU-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018
Total Conc: 87200

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	104	-			PCB-51	152	-		
PCB-2	ND	5.22			PCB-52	2930	-	C	69
PCB-3	12.3	-	J		PCB-53	467	-		
PCB-4	213	-			PCB-54	11.0	-	J	
PCB-5	23.3	-			PCB-55	75.2	-		
PCB-6	155	-			PCB-56	742	-	C	60
PCB-7	51.1	-			PCB-57	18.7	-	J	
PCB-8	431	-			PCB-58	9.70	-	J	
PCB-9	44.6	-			PCB-59	-	-	C042	42
PCB-10	28.0	-			PCB-60	-	-	C056	56
PCB-11	39.3	-			PCB-61	1620	-	C	70
PCB-12	17.7	-	J		PCB-62	ND	4.60		
PCB-13	ND	5.53			PCB-63	75.7	-		
PCB-14	206	-			PCB-64	-	-	C041	41/71/72
PCB-15	57.4	-			PCB-65	ND	4.38		
PCB-16	450	-			PCB-66	1360	-	C	76
PCB-17	757	-			PCB-67	58.7	-		
PCB-18	1700	-			PCB-68	31.1	-		
PCB-19	167	-			PCB-69	-	-	C052	52
PCB-20	647	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	358	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	3.68			PCB-73	ND	4.54		
PCB-24	65.5	-			PCB-74	702	-		
PCB-25	144	-			PCB-75	-	-	C048	48
PCB-26	346	-			PCB-76	-	-	C066	66
PCB-27	79.7	-			PCB-77	75.5	-		
PCB-28	1020	-			PCB-78	1690	-		
PCB-29	11.3	-	J		PCB-79	27.7	-		
PCB-30	ND	2.54			PCB-80	26.3	-		
PCB-31	1260	-			PCB-81	50.3	-		
PCB-32	522	-			PCB-82	285	-		
PCB-33	-	-	C020	20/21	PCB-83	144	-	C	112
PCB-34	16.4	-	J		PCB-84	1370	-	C	92
PCB-35	13.1	-	J		PCB-85	345	-	C	116
PCB-36	457	-			PCB-86	ND	5.93		
PCB-37	136	-			PCB-87	900	-	C	117/125
PCB-38	11.6	-	J		PCB-88	338	-	C	91
PCB-39	ND	3.49			PCB-89	49.2	-		
PCB-40	353	-			PCB-90	2840	-	C	101
PCB-41	1620	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	716	-	C	59	PCB-92	-	-	C084	84
PCB-43	2280	-	C	49	PCB-93	ND	4.89		
PCB-44	2090	-			PCB-94	21.6	-		
PCB-45	439	-			PCB-95	3080	-		
PCB-46	179	-			PCB-96	48.5	-		
PCB-47	604	-			PCB-97	658	-		
PCB-48	538	-	C	75	PCB-98	ND	4.03	C	102
PCB-49	-	-	C043	43	PCB-99	1040	-		
PCB-50	17.3	-	J		PCB-100	27.9	-		

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EPA Method 1668
PCBs

FAL ID: 11703-011-SA
Client ID: LDW-Y1-SU-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	569	-		
PCB-102	-	-	C098	98	PCB-152	ND	4.17		
PCB-103	55.0	-			PCB-153	1890	-		
PCB-104	1660	-			PCB-154	49.2	-		
PCB-105	505	-			PCB-155	3280	-		
PCB-106	1460	-	C	118	PCB-156	128	-		
PCB-107	127	-	C	108	PCB-157	27.4	-		
PCB-108	-	-	C107	107	PCB-158	198	-	C	160
PCB-109	ND	4.56			PCB-159	18.0	-	J	
PCB-110	2300	-			PCB-160	-	-	C158	158
PCB-111	47.6	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.21			PCB-163	-	-	C138	138/164
PCB-114	46.6	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.66		
PCB-117	-	-	C087	87/125	PCB-167	56.3	-		
PCB-118	-	-	C	106	PCB-168	6.12	-	J	
PCB-119	68.2	-			PCB-169	ND	4.62		
PCB-120	7.35	-	J		PCB-170	284	-		
PCB-121	3360	-			PCB-171	92.6	-		
PCB-122	20.0	-			PCB-172	171	-		
PCB-123	22.0	-			PCB-173	ND	6.27		
PCB-124	77.1	-			PCB-174	397	-		
PCB-125	-	-	C087	87/117	PCB-175	15.8	-	J	
PCB-126	ND	7.29			PCB-176	73.6	-		
PCB-127	ND	7.16			PCB-177	234	-		
PCB-128	248	-	C	162	PCB-178	105	-		
PCB-129	92.9	-			PCB-179	233	-		
PCB-130	124	-			PCB-180	570	-		
PCB-131	58.2	-	C	133	PCB-181	ND	5.32		
PCB-132	627	-	C	161	PCB-182	489	-	C	187
PCB-133	-	-	C131	131	PCB-183	240	-		
PCB-134	131	-	C	143	PCB-184	3950	-		
PCB-135	337	-			PCB-185	45.1	-		
PCB-136	511	-			PCB-186	ND	4.31		
PCB-137	98.5	-			PCB-187	-	-	C182	182
PCB-138	1610	-	C	163/164	PCB-188	ND	4.49		
PCB-139	1980	-	C	149	PCB-189	ND	4.00		
PCB-140	ND	5.40			PCB-190	59.1	-		
PCB-141	355	-			PCB-191	18.7	-	J	
PCB-142	5200	-			PCB-192	2940	-		
PCB-143	-	-	C134	134	PCB-193	43.9	-		
PCB-144	122	-			PCB-194	119	-		
PCB-145	ND	4.08			PCB-195	47.5	-		
PCB-146	315	-	C	165	PCB-196	160	-	C	203
PCB-147	48.1	-			PCB-197	62.3	-		
PCB-148	ND	4.92			PCB-198	ND	5.79		
PCB-149	-	-	C139	139	PCB-199	143	-		
PCB-150	8.62	-	J		PCB-200	23.0	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11703-011-SA
Client ID: LDW-Y1-SU-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	4.26		
PCB-202	31.0	-		
PCB-203	-	-	C196	196
PCB-204	9010	-		
PCB-205	6.86	-	J	
PCB-206	34.0	-		
PCB-207	41.1	-		
PCB-208	11.9	-	J	
PCB-209	43.9	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.4	5.00 - 145	
13C-PCB-3	90.0	5.00 - 145	
13C-PCB-4	95.2	5.00 - 145	
13C-PCB-15	102	5.00 - 145	
13C-PCB-19	95.5	5.00 - 145	
13C-PCB-37	110	5.00 - 145	
13C-PCB-54	96.2	5.00 - 145	
13C-PCB-77	109	10.0 - 145	
13C-PCB-81	107	10.0 - 145	
13C-PCB-104	99.5	10.0 - 145	
13C-PCB-105	104	10.0 - 145	
13C-PCB-114	104	10.0 - 145	
13C-PCB-118	104	10.0 - 145	
13C-PCB-123	101	10.0 - 145	
13C-PCB-126	109	10.0 - 145	
13C-PCB-155	99.5	10.0 - 145	
13C-PCB-156	99.0	10.0 - 145	
13C-PCB-157	101	10.0 - 145	
13C-PCB-167	99.7	10.0 - 145	
13C-PCB-169	103	10.0 - 145	
13C-PCB-188	95.3	10.0 - 145	
13C-PCB-189	103	10.0 - 145	
13C-PCB-202	95.6	10.0 - 145	
13C-PCB-205	90.4	10.0 - 145	
13C-PCB-206	85.0	10.0 - 145	
13C-PCB-208	85.6	10.0 - 145	
13C-PCB-209	82.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	103	5.00 - 145	
13C-PCB-111	102	10.0 - 145	
13C-PCB-178	96.8	10.0 - 145	

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

Analyst: _____

Date: 8/2/2018

Reviewed By: _____

Date: 8/2/2018

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EPA Method 1668
PCBs

FAL ID: 11703-012-SA
Client ID: LDW-Y1-SU-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018
Total Conc: 70600

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.41			PCB-51	93.2	-		
PCB-2	ND	4.08			PCB-52	1630	-	C	69
PCB-3	ND	3.92			PCB-53	259	-		
PCB-4	43.9	-			PCB-54	7.34	-	J	
PCB-5	19.1	-	J		PCB-55	66.8	-		
PCB-6	59.6	-			PCB-56	461	-	C	60
PCB-7	14.2	-	J		PCB-57	10.4	-	J	
PCB-8	120	-			PCB-58	6.68	-	J	
PCB-9	12.6	-	J		PCB-59	-	-	C042	42
PCB-10	9.57	-	J		PCB-60	-	-	C056	56
PCB-11	52.1	-			PCB-61	993	-	C	70
PCB-12	ND	3.54			PCB-62	ND	4.65		
PCB-13	ND	3.49			PCB-63	49.6	-		
PCB-14	357	-			PCB-64	-	-	C041	41/71/72
PCB-15	34.6	-			PCB-65	ND	4.43		
PCB-16	205	-			PCB-66	841	-	C	76
PCB-17	373	-			PCB-67	ND	4.31		
PCB-18	830	-			PCB-68	25.9	-		
PCB-19	83.6	-			PCB-69	-	-	C052	52
PCB-20	353	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	201	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	3.98			PCB-73	ND	4.59		
PCB-24	34.2	-			PCB-74	426	-		
PCB-25	76.6	-			PCB-75	-	-	C048	48
PCB-26	195	-			PCB-76	-	-	C066	66
PCB-27	44.7	-			PCB-77	53.8	-		
PCB-28	593	-			PCB-78	2220	-		
PCB-29	6.56	-	J		PCB-79	17.0	-	J	
PCB-30	ND	5.49			PCB-80	ND	3.97		
PCB-31	661	-			PCB-81	42.6	-		
PCB-32	283	-			PCB-82	194	-		
PCB-33	-	-	C020	20/21	PCB-83	87.8	-	C	112
PCB-34	8.23	-	J		PCB-84	855	-	C	92
PCB-35	11.5	-	J		PCB-85	222	-	C	116
PCB-36	693	-			PCB-86	ND	5.81		
PCB-37	85.3	-			PCB-87	580	-	C	117/125
PCB-38	8.36	-	J		PCB-88	217	-	C	91
PCB-39	ND	3.78			PCB-89	30.7	-		
PCB-40	228	-			PCB-90	1740	-	C	101
PCB-41	1020	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	433	-	C	59	PCB-92	-	-	C084	84
PCB-43	1300	-	C	49	PCB-93	ND	4.55		
PCB-44	1210	-			PCB-94	14.5	-	J	
PCB-45	258	-			PCB-95	1860	-		
PCB-46	102	-			PCB-96	32.4	-		
PCB-47	383	-			PCB-97	407	-		
PCB-48	298	-	C	75	PCB-98	ND	3.75	C	102
PCB-49	-	-	C043	43	PCB-99	657	-		
PCB-50	12.7	-	J		PCB-100	24.8	-		

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EPA Method 1668
PCBs

FAL ID: 11703-012-SA
Client ID: LDW-Y1-SU-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	386	-		
PCB-102	-	-	C098	98	PCB-152	ND	3.29		
PCB-103	32.3	-			PCB-153	1340	-		
PCB-104	1980	-			PCB-154	40.9	-		
PCB-105	329	-			PCB-155	3800	-		
PCB-106	901	-	C	118	PCB-156	86.4	-		
PCB-107	77.7	-	C	108	PCB-157	16.6	-	J	
PCB-108	-	-	C107	107	PCB-158	137	-	C	160
PCB-109	ND	4.47			PCB-159	14.7	-	J	
PCB-110	1380	-			PCB-160	-	-	C158	158
PCB-111	24.2	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.10			PCB-163	-	-	C138	138/164
PCB-114	30.7	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	6.81		
PCB-117	-	-	C087	87/125	PCB-167	42.7	-		
PCB-118	-	-	C	106	PCB-168	ND	6.50		
PCB-119	46.3	-			PCB-169	ND	6.31		
PCB-120	7.96	-	J		PCB-170	212	-		
PCB-121	4020	-			PCB-171	67.8	-		
PCB-122	16.0	-	J		PCB-172	173	-		
PCB-123	16.8	-	J		PCB-173	ND	5.45		
PCB-124	52.6	-			PCB-174	313	-		
PCB-125	-	-	C087	87/117	PCB-175	11.3	-	J	
PCB-126	ND	7.08			PCB-176	48.7	-		
PCB-127	ND	6.90			PCB-177	168	-		
PCB-128	170	-	C	162	PCB-178	69.4	-		
PCB-129	60.6	-			PCB-179	171	-		
PCB-130	88.7	-			PCB-180	409	-		
PCB-131	32.1	-	C	133	PCB-181	ND	4.62		
PCB-132	463	-	C	161	PCB-182	347	-	C	187
PCB-133	-	-	C131	131	PCB-183	174	-		
PCB-134	88.1	-	C	143	PCB-184	4440	-		
PCB-135	217	-			PCB-185	34.5	-		
PCB-136	319	-			PCB-186	ND	3.75		
PCB-137	54.4	-			PCB-187	-	-	C182	182
PCB-138	1120	-	C	163/164	PCB-188	ND	3.91		
PCB-139	1330	-	C	149	PCB-189	ND	3.46		
PCB-140	ND	7.90			PCB-190	43.5	-		
PCB-141	246	-			PCB-191	ND	4.07		
PCB-142	6020	-			PCB-192	3250	-		
PCB-143	-	-	C134	134	PCB-193	34.3	-		
PCB-144	97.4	-			PCB-194	98.2	-		
PCB-145	ND	3.22			PCB-195	40.0	-		
PCB-146	221	-	C	165	PCB-196	123	-	C	203
PCB-147	35.2	-			PCB-197	58.0	-		
PCB-148	ND	3.88			PCB-198	ND	5.24		
PCB-149	-	-	C139	139	PCB-199	118	-		
PCB-150	ND	3.11			PCB-200	19.8	-	J	

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EPA Method 1668
PCBs

FAL ID: 11703-012-SA
Client ID: LDW-Y1-SU-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.86		
PCB-202	29.8	-		
PCB-203	-	-	C196	196
PCB-204	9870	-		
PCB-205	6.00	-	J	
PCB-206	29.6	-		
PCB-207	42.7	-		
PCB-208	11.0	-	J	
PCB-209	50.9	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.6	5.00 - 145	
13C-PCB-3	90.6	5.00 - 145	
13C-PCB-4	97.2	5.00 - 145	
13C-PCB-15	101	5.00 - 145	
13C-PCB-19	91.6	5.00 - 145	
13C-PCB-37	109	5.00 - 145	
13C-PCB-54	96.0	5.00 - 145	
13C-PCB-77	109	10.0 - 145	
13C-PCB-81	106	10.0 - 145	
13C-PCB-104	99.1	10.0 - 145	
13C-PCB-105	107	10.0 - 145	
13C-PCB-114	105	10.0 - 145	
13C-PCB-118	105	10.0 - 145	
13C-PCB-123	101	10.0 - 145	
13C-PCB-126	105	10.0 - 145	
13C-PCB-155	98.6	10.0 - 145	
13C-PCB-156	97.7	10.0 - 145	
13C-PCB-157	100	10.0 - 145	
13C-PCB-167	98.9	10.0 - 145	
13C-PCB-169	104	10.0 - 145	
13C-PCB-188	98.3	10.0 - 145	
13C-PCB-189	103	10.0 - 145	
13C-PCB-202	96.7	10.0 - 145	
13C-PCB-205	91.5	10.0 - 145	
13C-PCB-206	83.9	10.0 - 145	
13C-PCB-208	85.5	10.0 - 145	
13C-PCB-209	84.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	102	5.00 - 145	
13C-PCB-111	103	10.0 - 145	
13C-PCB-178	97.0	10.0 - 145	

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

Analyst: _____

Date: 8/2/2018

Reviewed By: _____

Date: 8/2/2018

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

EPA Method 1668
PCBs

FAL ID: 11703-013-SA
Client ID: LDW-Y1-SU-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018
Total Conc: 76600

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	7.52	-	J		PCB-51	119	-		
PCB-2	ND	4.21			PCB-52	2380	-	C	69
PCB-3	ND	4.02			PCB-53	368	-		
PCB-4	70.4	-			PCB-54	9.14	-	J	
PCB-5	10.7	-	J		PCB-55	66.8	-		
PCB-6	79.6	-			PCB-56	626	-	C	60
PCB-7	13.4	-	J		PCB-57	14.4	-	J	
PCB-8	220	-			PCB-58	7.59	-	J	
PCB-9	19.1	-	J		PCB-59	-	-	C042	42
PCB-10	17.2	-	J		PCB-60	-	-	C056	56
PCB-11	58.8	-			PCB-61	1440	-	C	70
PCB-12	12.6	-	J		PCB-62	ND	3.91		
PCB-13	ND	5.23			PCB-63	65.4	-		
PCB-14	320	-			PCB-64	-	-	C041	41/71/72
PCB-15	61.6	-			PCB-65	ND	3.72		
PCB-16	316	-			PCB-66	1190	-	C	76
PCB-17	579	-			PCB-67	52.0	-		
PCB-18	1270	-			PCB-68	30.7	-		
PCB-19	128	-			PCB-69	-	-	C052	52
PCB-20	527	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	314	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	2.15			PCB-73	ND	3.86		
PCB-24	54.3	-			PCB-74	596	-		
PCB-25	122	-			PCB-75	-	-	C048	48
PCB-26	299	-			PCB-76	-	-	C066	66
PCB-27	59.5	-			PCB-77	64.7	-		
PCB-28	979	-			PCB-78	1970	-		
PCB-29	9.52	-	J		PCB-79	27.2	-		
PCB-30	ND	6.64			PCB-80	33.0	-		
PCB-31	1020	-			PCB-81	49.9	-		
PCB-32	432	-			PCB-82	244	-		
PCB-33	-	-	C020	20/21	PCB-83	110	-	C	112
PCB-34	14.6	-	J		PCB-84	1070	-	C	92
PCB-35	15.0	-	J		PCB-85	290	-	C	116
PCB-36	616	-			PCB-86	ND	4.93		
PCB-37	130	-			PCB-87	725	-	C	117/125
PCB-38	12.1	-	J		PCB-88	170	-	C	91
PCB-39	ND	2.04			PCB-89	36.8	-		
PCB-40	307	-			PCB-90	2210	-	C	101
PCB-41	1400	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	586	-	C	59	PCB-92	-	-	C084	84
PCB-43	1880	-	C	49	PCB-93	ND	4.33		
PCB-44	1740	-			PCB-94	17.9	-	j	
PCB-45	371	-			PCB-95	2440	-		
PCB-46	133	-			PCB-96	41.3	-		
PCB-47	535	-			PCB-97	502	-		
PCB-48	417	-	C	75	PCB-98	ND	3.57	C	102
PCB-49	-	-	C043	43	PCB-99	829	-		
PCB-50	14.6	-	J		PCB-100	25.0	-		

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EPA Method 1668
PCBs

FAL ID: 11703-013-SA
Client ID: LDW-Y1-SU-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	437	-		
PCB-102	-	-	C098	98	PCB-152	ND	3.87		
PCB-103	46.6	-			PCB-153	1340	-		
PCB-104	1720	-			PCB-154	40.5	-		
PCB-105	414	-			PCB-155	3480	-		
PCB-106	1120	-	C	118	PCB-156	82.4	-		
PCB-107	89.8	-	C	108	PCB-157	18.8	-	J	
PCB-108	-	-	C107	107	PCB-158	137	-	C	160
PCB-109	ND	3.79			PCB-159	16.9	-	J	
PCB-110	1780	-			PCB-160	-	-	C158	158
PCB-111	39.8	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.33			PCB-163	-	-	C138	138/164
PCB-114	36.9	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	6.05		
PCB-117	-	-	C087	87/125	PCB-167	37.1	-		
PCB-118	-	-	C	106	PCB-168	ND	5.77		
PCB-119	55.7	-			PCB-169	ND	5.90		
PCB-120	ND	3.62			PCB-170	164	-		
PCB-121	3590	-			PCB-171	67.8	-		
PCB-122	21.8	-			PCB-172	157	-		
PCB-123	17.7	-	J		PCB-173	ND	5.13		
PCB-124	64.9	-			PCB-174	258	-		
PCB-125	-	-	C087	87/117	PCB-175	14.5	-	J	
PCB-126	ND	5.87			PCB-176	46.6	-		
PCB-127	ND	5.80			PCB-177	146	-		
PCB-128	174	-	C	162	PCB-178	57.2	-		
PCB-129	69.9	-			PCB-179	148	-		
PCB-130	88.3	-			PCB-180	352	-		
PCB-131	40.8	-	C	133	PCB-181	ND	4.35		
PCB-132	487	-	C	161	PCB-182	314	-	C	187
PCB-133	-	-	C131	131	PCB-183	162	-		
PCB-134	101	-	C	143	PCB-184	4190	-		
PCB-135	233	-			PCB-185	31.0	-		
PCB-136	366	-			PCB-186	ND	3.53		
PCB-137	54.6	-			PCB-187	-	-	C182	182
PCB-138	1150	-	C	163/164	PCB-188	ND	3.67		
PCB-139	1390	-	C	149	PCB-189	ND	3.28		
PCB-140	18.7	-	J		PCB-190	41.8	-		
PCB-141	249	-			PCB-191	ND	3.83		
PCB-142	5430	-			PCB-192	3100	-		
PCB-143	-	-	C134	134	PCB-193	35.3	-		
PCB-144	101	-			PCB-194	55.4	-		
PCB-145	ND	3.78			PCB-195	22.3	-		
PCB-146	240	-	C	165	PCB-196	82.6	-	C	203
PCB-147	41.6	-			PCB-197	56.1	-		
PCB-148	ND	4.56			PCB-198	ND	5.72		
PCB-149	-	-	C139	139	PCB-199	69.3	-		
PCB-150	ND	3.66			PCB-200	ND	4.11		

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EPA Method 1668
PCBs

FAL ID: 11703-013-SA
Client ID: LDW-Y1-SU-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4584

Date Extracted: 07-19-2018
Date Received: 07-03-2018
Amount: 1.00 sample

ICal: DAILY209FAL4-7-27-18
GC Column: DB1MS
Units: pg/sample

Acquired: 07-27-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	4.21		
PCB-202	21.2	-		
PCB-203	-	-	C196	196
PCB-204	9090	-		
PCB-205	4.42	-	J	
PCB-206	14.5	-	J	
PCB-207	38.3	-		
PCB-208	5.43	-	J	
PCB-209	43.7	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.1	5.00 - 145	
13C-PCB-3	89.2	5.00 - 145	
13C-PCB-4	94.8	5.00 - 145	
13C-PCB-15	100	5.00 - 145	
13C-PCB-19	90.1	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	92.9	5.00 - 145	
13C-PCB-77	106	10.0 - 145	
13C-PCB-81	105	10.0 - 145	
13C-PCB-104	98.7	10.0 - 145	
13C-PCB-105	103	10.0 - 145	
13C-PCB-114	105	10.0 - 145	
13C-PCB-118	104	10.0 - 145	
13C-PCB-123	99.2	10.0 - 145	
13C-PCB-126	108	10.0 - 145	
13C-PCB-155	97.6	10.0 - 145	
13C-PCB-156	97.0	10.0 - 145	
13C-PCB-157	99.3	10.0 - 145	
13C-PCB-167	98.2	10.0 - 145	
13C-PCB-169	103	10.0 - 145	
13C-PCB-188	94.4	10.0 - 145	
13C-PCB-189	100	10.0 - 145	
13C-PCB-202	97.8	10.0 - 145	
13C-PCB-205	93.7	10.0 - 145	
13C-PCB-206	84.6	10.0 - 145	
13C-PCB-208	86.9	10.0 - 145	
13C-PCB-209	85.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	102	5.00 - 145	
13C-PCB-111	103	10.0 - 145	
13C-PCB-178	97.0	10.0 - 145	

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

Analyst: _____

Date: 8/2/2018

Reviewed By: _____

Date: 8/2/2018

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No.: 11703
Temperature: 1 °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page 1 of 3

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Floyd Snider	Company Name: Wood.	FAL Quote #: 3102A
Contact Name: Gretchen Heavner	Contact Name: Dianne Shannon and Crystal Thinsen	P.O. #: ~~C093~~ C01310643 5
Address: 601 Union St. Suite 600, Seattle WA 98101	Address: 3500 188th St. SW, Suite 601, Lynnwood WA 98037	Project #: LY15160310
Phone: 206-292-2078 Fax: 206-682-7867	Phone: 425-921-4008 Fax:	Project Name: LDW ENR/AC Pilot Study
Email: gretchen.heavner@floydsnider.com	Email: dianne.shannon@woodplc.com crystal.thinsen@woodplc.com	TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION	REPORT DISTRIBUTION (email only is preferred)	ADDITIONAL INSTRUCTIONS
Report Level: ☐ I/II ☐ III ☑ IV	☐ Hardcopy	
☑ EDD: ☐ FAL Basic ☐ Geotracker ☑ Other: FSI ☐ Custom: Contact FAL	☐ CD (.pdf including EDDs if requested)	
	☑ Email (.pdf including EDDs if requested)	

☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

**CONGENERS: ☐ 2,3,7,8-TCDD only ☐ 2,3,7,8-TCDD/F only ☐ PCDD/F (Cl_4-Cl_8)
**TEQ: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

	Sample ID	Date Collected	Time	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	LDW-Y1-SC-ENR+AC-CA-S010	6/30/18	1430	hexane									✓			process and run on GC
2	LDW-Y1-SC-ENR+AC-CB-S010		1438										✓			process and run on GC
3	LDW-Y1-SC-ENR+AC-CC-S010		1445										✓			process and run on GC
4	LDW-Y1-SC-ENR+AC-CD-S010		1452										✓			process, do not run on GC
5	LDW-Y1-SC-ENR+AC-CE-S010		1459										✓			process, do not run on GC
~~6~~	~~LDW-Y1-SC-ENR+AC-CF-S010~~															sample not being shipped
7	LDW-Y1-SC-ENR-CA-S010		1529										✓			process and run on GC
8	LDW-Y1-SC-ENR-CB-S010		1536										✓			process and run on GC
9	LDW-Y1-SC-ENR-CC-S010		1543										✓			process and run on GC
10	LDW-Y1-SC-ENR-CD-S010		1549										✓			process, do not run on GC
11	LDW-Y1-SC-ENR-CE-S010		1555										✓			process, do not run on GC
12	LDW-Y1-SU-ENR+AC-CA-S010		1145										✓			process and run on GC
13	LDW-Y1-SU-ENR+AC-CB-S010		1154										✓			process and run on GC
14	LDW-Y1-SU-ENR+AC-CC-S010		1203										✓			process and run on GC
15	LDW-Y1-SU-ENR+AC-CD-S010		1213										✓			process, do not run on GC

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Collin Ray Collin Ray	7/2/18	1100	Kathy Bee	7-3-18	915

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report
Yellow Copy – Laboratory
Pink Copy - Originator

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **11703**

Client:	Floyd | Snider
Client Project ID:	LY15160310
Date Received:	07/03/2018
Time Received:	09:15 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	14
Duplicates:	0
Storage Location:	R-3

Method of Delivery:	Fed-Ex
Tracking Number:	772616388169
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	1
Cooling Method	Blue Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A
Anomalies or additional comments:	

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Frontier Analytical Laboratory
5172 Hillsdale Circle
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Tel: 916-934-0900
Fax: 916-934-0999
FAL USE ONLY
Laboratory Project No.: 11703
Temperature: 1 °C
Chain of Custody
www.frontieranalytical.com
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Page 1 of 3
CLIENT INFORMATION
Company Name: Floyd Snider
Contact Name: Gretchen Heavner
Address: 601 Union St. Suite 600, Seattle WA 98101
Phone: 206-292-2078 Fax: 206-682-7867
Email: gretchen.heavner@floydsnider.com
INVOICE INFORMATION (if different from client info)
Company Name: Wood.
Contact Name: Dianne Shannon and Crystal Thimsen
Address: 3500 188th St. SW, Suite 601, Lynnwood WA 98037
Phone: 425-921-4008 Fax:
Email: dianne.shannon@woodplc.com
crystal.thimsen@woodplc.com
PROJECT INFORMATION
FAL Quote #: 3102A
P.O. #: 605 C013106435
Project #: LY1516 0310
Project Name: LDW ENR/AC Pilot Study
TAT (business days): ☑ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
* FAL must agree with price and RUSH TAT in writing.
REPORT INFORMATION
Report Level: ☐ I/II ☐ III ☑ IV
☑ EDD: ☐ FAL Basic ☐ Geotracker
☑ Other: FS1 ☐ Custom: Contact FAL
☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:
REPORT DISTRIBUTION (email only is preferred)
☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
☑ Email (.pdf including EDDs if requested)
ADDITIONAL INSTRUCTIONS
**CONGENERS
☐ 2,3,7,8-TCDD only
☐ 2,3,7,8-TCDD/F only
☐ PCDD/F (Cl4-Cl8)
**TEQ
☐ 1998 WHO
☐ 2005 WHO
☐ Other
Sample ID
Date Collected
Time
Matrix
# of containers
EPA 1613**
EPA 8290**
DLM 02.0
EPA 8280**
Appendix IX
EPA TO-9/9A
EPA 23/23A
EPA 1668
FAL 15
Other
Remarks
White Copy – Report
Yellow Copy – Laboratory
Pink Copy
Frontier Analytical Laboratory
11703-001-SA
Client ID: LDW-Y1-SC-ENR+AC-CA-S010
Storage: R-3
(01 of 01)
11703-002-SA
Client ID: LDW-Y1-SC-ENR+AC-CB-S010
(01 of 01)
11703-003-SA
Client ID: LDW-Y1-SC-ENR+AC-CC-S010
Storage: R-3
(01 of 01)
11703-004-SA
Client ID: LDW-Y1-SC-ENR+AC-CD-S010
(01 of 01)
11703-005-SA
Client ID: LDW-Y1-SC-ENR+AC-CE-S010
(01 of 01)
11703-006-SA
Client ID: LDW-Y1-SC-ENR-CA-S010
(01 of 01)
11703-007-SA
Client ID: LDW-Y1-SC-ENR-CB-S010
(01 of 01)
2018/07/03

ANALYTICAL LABORATORY
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999
Laboratory Project No.: 11703
Temperature: 1 °C
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Page 1 of 3
CLIENT INFORMATION
Company Name: Floyd Snider
Contact Name: Gretchen Heavner
Address: 601 Union St. Suite 600, Seattle WA 98101
Phone: 206-292-2078 Fax: 206-682-7867
Email: gretchen.heavner@floydsnider.com
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Company Name: Wood.
Contact Name: Dianne Shannon and Crystal Thimsen
Address: 3500 188th St. SW, Suite 601, Lynnwood WA 98037
Phone: 425-921-4008 Fax:
Email: dianne.shannon@woodplc.com
crystal.thimsen@woodplc.com
PROJECT INFORMATION
FAL Quote #: 3102A
P.O. #: C01310643 5
Project #: LY15160310
Project Name: LDW ENR/AC Pilot Study
TAT (business days): 15 10 5* 3* (√ one)
* FAL must agree with price and RUSH TAT in writing.
REPORT INFORMATION
Report Level: I/II III IV
EDD: FAL Basic Geotracker
Other: FSI Custom: Contact FAL
California State Drinking Water Form
System #: Source #:
Sampler: Employer:
REPORT DISTRIBUTION (email only is preferred)
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CD (.pdf including EDDs if requested)
Email (.pdf including EDDs if requested)
ADDITIONAL INSTRUCTIONS
Sample ID
Date Collected
Time
Matrix
# of containers
EPA 1613**
EPA 8290**
DLM 02.0
EPA 8280**
Appendix IX
EPA TO-9/9A
EPA 23/23A
EPA 1668
FAL 15
Other
**CONGENERS
2,3,7,8-TCDD only
2,3,7,8-TCDD/F only
PCDD/F (Cl4-Cl8)
**TEQ
1998 WHO
2005 WHO
Other
Remarks
6/30/18
hexane
White Copy – Report
Yellow Copy – Laboratory
Pink Copy
11703-008-SA
Client ID: LDW-Y1-SC-ENR-CC-S010
Storage: R-3
(01 of 01)
11703-009-SA
(01 of 01)
11703-010-SA
(01 of 01)
11703-011-SA
Client ID: LDW-Y1-SU-ENR+AC-CA-S010
Storage: R-3
(01 of 01)
11703-012-SA
(01 of 01)
11703-013-SA
(01 of 01)
11703-014-SA
(01 of 01)
2018/07/03

Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #:	11703	Sample #:	1 - 14	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	06/30/2019
Matrix:	Solvent	Extraction Batch:	4584	Due Date:	08/01/2018
Method:	EPA 1668 PCB			Storage:	R-3
SOP:	SOPs: EP1A Rev.11 IP1A Rev.9				

COMMENTS/INSTRUCTIONS:

Results: 11703

Extract/s located in box: Teller People

Standards: 11703

Instrument:

DB5MS	
007-225	
DB1MS	EDLd
Other	

L4 / Special EDD / See 10398 for example

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 11703 Extraction Date: 2018-07-19 Extraction Chemist: RR

Method/Analysis: EPA 1668 PCB

Procedure: Solvent Dilution Solvent: Hexane

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS Amt: 10.0uL ID: R171115A Vial: 5 Chemist/Witness/Date	NS Amt: 10.0uL ID: 180221A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R180510C Vial: 2 Chemist/Witness/Date
04584-001-0001-MB	5.00g	NA	RR KC 7-19-18	NA	RR KC 7-19-18
04584-001-0001-OPR	5.00g			RR KC 7-19-18	
11703-001-0001-SA	5.40mL			NA	
11703-002-0001-SA	5.60mL				
11703-003-0001-SA	5.59mL				
11703-004-0001-SA	5.48mL				
11703-005-0001-SA	5.11mL				
11703-006-0001-SA	5.45mL				
11703-007-0001-SA	5.48mL				
11703-008-0001-SA	5.53mL				
11703-009-0001-SA	5.02mL				
11703-010-0001-SA	5.35mL				
11703-011-0001-SA	5.42mL				
11703-012-0001-SA	5.40mL				
11703-013-0001-SA	5.41mL				
11703-014-0001-SA	5.52mL				

AX-21 Charcoal Cleaned	110617	Acetone	58019	Acid Alumina	A0380141	Hexane	58018
Methanol	180357	Methylene Chloride (DCM)	181715	Silica Gel	TA5000234	Sodium Hydroxide 1N	173537
Sodium Sulfate	18B085201	Sulfuric Acid	58032	Tetradecane	175759	Toluene	57314
Water	166416	C-18 Empore Discs	320982D	Cyclohexane	57146		

Comments:

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 11703

Method/Analysis: EPA 1668 PCB

Splits: 0 Split Date: N/A Final Volume: 100uL

Sample ID	Cleanup 1	Cleanup 2	Cleanup 3	RS
	PCB MSG	NA	NA	Amt: 10.0uL ID: 180607A Vial: 1
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
04584-001-0001-MB	RR 7-19-18	NA	NA	RR KC 7-19-18
04584-001-0001-OPR				
11703-001-0001-SA				
11703-002-0001-SA				
11703-003-0001-SA				
11703-004-0001-SA				
11703-005-0001-SA				
11703-006-0001-SA				
11703-007-0001-SA				
11703-008-0001-SA				
11703-009-0001-SA				
11703-010-0001-SA				
11703-011-0001-SA				
11703-012-0001-SA				
11703-013-0001-SA				
11703-014-0001-SA				

AX-21 Charcoal Cleaned	110617	Acetone	58019	Acid Alumina	A0380141	Hexane	58018
Methanol	180357	Methylene Chloride (DCM)	181715	Silica Gel	TA5000234	Sodium Hydroxide 1N	173537
Sodium Sulfate	18B085201	Sulfuric Acid	58032	Tetradecane	175759	Toluene	57314
Water	166416	C-18 Empore Discs	320982D	Cyclohexane	57146		

Comments:

FAL ID: 04584-001-0001-MB Filename: 27JUL18Z Sam:4 Acquired: 27-JUL-18 11:47:50 ICal: DAILY209FAL4-7-27-18
Client ID: Method Blank ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	*	n	NotFnd	1.17	*		1310	1060	3.16			
13C-PCB-1	4.90e+07	3.16	y	14:31	0.92	8890					88.9	1.23e+07	3.85e+06
PCB-2	*	*	n	NotFnd	1.05	*		1310	1060	3.59			
PCB-3	*	*	n	NotFnd	1.16	*		1310	1060	3.30			
13C-PCB-3	5.00e+07	3.23	y	16:58	0.93	8970					89.7	1.19e+07	3.65e+06
PCB-4	*	*	n	NotFnd	1.42	*		789	2300	4.69			
PCB-10	*	*	n	NotFnd	1.21	*		789	2300	5.04			
13C-PCB-4	3.80e+07	1.59	y	18:11	0.68	9410					94.1	7.09e+06	4.48e+06
PCB-9	*	*	n	NotFnd	1.40	*		789	2300	4.36			
PCB-7	*	*	n	NotFnd	1.40	*		789	2300	4.38			
PCB-6	*	*	n	NotFnd	1.33	*		789	2300	4.59			
PCB-8	*	*	n	NotFnd	1.35	*		789	2300	4.52			
PCB-5	*	*	n	NotFnd	1.35	*		789	2300	4.52			
PCB-14	*	*	n	NotFnd	1.31	*		789	2300	4.67			
PCB-11	*	*	n	NotFnd	1.24	*		789	2300	4.93			
PCB-13	*	*	n	NotFnd	1.32	*		789	2300	4.64			
PCB-12	*	*	n	NotFnd	1.30	*		789	2300	4.71			
PCB-15	*	*	n	NotFnd	1.26	*		789	2300	4.57			
13C-PCB-15	5.77e+07	1.60	y	23:45	1.00	9650					96.5	8.30e+06	5.12e+06
PCB-19	*	*	n	NotFnd	1.19	*		1320	460	5.76			
PCB-30	*	*	n	NotFnd	1.63	*		1320	460	4.22			
PCB-18	*	*	n	NotFnd	1.14	*		1320	460	6.01			
PCB-17	*	*	n	NotFnd	1.23	*		1320	460	5.56			
PCB-27	*	*	n	NotFnd	1.49	*		1320	460	4.60			
PCB-24	*	*	n	NotFnd	1.69	*		1320	460	4.06			
PCB-16	*	*	n	NotFnd	1.36	*		1320	460	5.04			
PCB-32	*	*	n	NotFnd	1.41	*		1320	460	4.88			
13C-PCB-19	2.47e+07	1.09	y	22:04	0.44	9310					93.1	3.37e+06	3.12e+06
13C-PCB-9	5.98e+07	1.64	y	19:53	-	52.3							
PCB-34	*	*	n	NotFnd	1.03	*		1430	516	5.04			
PCB-23	*	*	n	NotFnd	1.10	*		1430	516	4.71			
PCB-29	*	*	n	NotFnd	1.14	*		1430	516	4.53			
PCB-26	*	*	n	NotFnd	1.04	*		1430	516	4.97			
PCB-25	*	*	n	NotFnd	1.36	*		1430	516	3.81			
PCB-31	*	*	n	NotFnd	1.12	*		1430	516	4.64			
PCB-28	*	*	n	NotFnd	1.44	*		1430	516	3.61			
PCB-20	*	*	n	NotFnd	1.24	*		1430	516	4.19		Co-elute PCB 21/33	
PCB-21	*	*	n	NotFnd	1.24	*		1430	516	4.19		Co-elute PCB 20/33	
PCB-33	*	*	n	NotFnd	1.24	*		1430	516	4.19		Co-elute PCB 20/21	
PCB-22	*	*	n	NotFnd	1.24	*		1430	516	4.18			
PCB-36	*	*	n	NotFnd	1.13	*		1430	516	4.60			
PCB-39	*	*	n	NotFnd	1.16	*		1430	516	4.47			
PCB-38	*	*	n	NotFnd	1.12	*		1430	516	4.63			
PCB-35	*	*	n	NotFnd	1.08	*		1430	516	4.81			
PCB-37	*	*	n	NotFnd	1.22	*		1430	516	4.25			
13C-PCB-37	4.74e+07	1.07	y	30:24	1.72	9990					99.9	4.83e+06	4.55e+06

PCB-54	*	*	n	NotFnd	1.21	*	600	768	3.71			
PCB-50	*	*	n	NotFnd	0.91	*	600	768	4.94			
PCB-53	*	*	n	NotFnd	0.93	*	600	768	4.84			
PCB-51	*	*	n	NotFnd	0.95	*	600	768	4.74			
PCB-45	*	*	n	NotFnd	0.79	*	600	768	5.69			
PCB-46	*	*	n	NotFnd	0.78	*	600	768	5.77			
PCB-52	*	*	n	NotFnd	1.13	*	600	768	3.95	Co-elute PCB 69		
PCB-69	*	*	n	NotFnd	1.13	*	600	768	3.95	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.11	*	600	768	4.03			
PCB-43	*	*	n	NotFnd	0.88	*	600	768	5.11	Co-elute PCB 49		
PCB-49	*	*	n	NotFnd	0.88	*	600	768	5.11	Co-elute PCB 43		
PCB-47	*	*	n	NotFnd	1.04	*	600	768	4.32			
PCB-48	*	*	n	NotFnd	1.14	*	600	768	3.92	Co-elute PCB 75		
PCB-75	*	*	n	NotFnd	1.14	*	600	768	3.92	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.15	*	600	768	3.89			
PCB-62	*	*	n	NotFnd	1.10	*	600	768	4.08			
PCB-44	*	*	n	NotFnd	0.80	*	600	768	5.57			
PCB-42	*	*	n	NotFnd	1.07	*	600	768	4.20	Co-elute PCB 59		
PCB-59	*	*	n	NotFnd	1.07	*	600	768	4.20	Co-elute PCB 42		
PCB-72	*	*	n	NotFnd	1.14	*	600	768	3.94	Co-elute PCB 41/71/64		
PCB-41	*	*	n	NotFnd	1.14	*	600	768	3.94	Co-elute PCB 72/71/64		
PCB-71	*	*	n	NotFnd	1.14	*	600	768	3.94	Co-elute PCB 72/41/64		
PCB-64	*	*	n	NotFnd	1.14	*	600	768	3.94	Co-elute PCB 72/41/71		
PCB-68	*	*	n	NotFnd	1.22	*	600	768	3.67			
PCB-40	*	*	n	NotFnd	0.70	*	600	768	6.41			
PCB-57	*	*	n	NotFnd	1.10	*	600	768	4.07			
PCB-67	*	*	n	NotFnd	1.18	*	600	768	3.78			
PCB-58	*	*	n	NotFnd	1.07	*	600	768	4.17			
PCB-63	*	*	n	NotFnd	1.12	*	600	768	3.99			
PCB-74	*	*	n	NotFnd	1.25	*	600	768	3.57			
PCB-61	*	*	n	NotFnd	1.19	*	600	768	3.78	Co-elute PCB 70		
PCB-70	*	*	n	NotFnd	1.19	*	600	768	3.78	Co-elute PCB 61		
PCB-76	*	*	n	NotFnd	1.18	*	600	768	3.81	Co-elute PCB 66		
PCB-66	*	*	n	NotFnd	1.18	*	600	768	3.81	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.28	*	600	768	3.49			
PCB-55	*	*	n	NotFnd	1.17	*	600	768	3.83			
13C-PCB-54	3.11e+07	0.82	y	25:37	1.14	9880				98.8	3.45e+06	4.18e+06
PCB-104	*	*	n	NotFnd	1.26	*	508	540	5.60			
PCB-96	*	*	n	NotFnd	1.11	*	508	540	6.33			
PCB-103	*	*	n	NotFnd	0.97	*	508	540	7.28			
PCB-100	*	*	n	NotFnd	0.97	*	508	540	7.27			
PCB-94	*	*	n	NotFnd	0.82	*	508	540	8.57			
PCB-98	*	*	n	NotFnd	0.44	*	508	540	15.9	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.44	*	508	540	15.9	Co-elute PCB 98		
PCB-95	*	*	n	NotFnd	0.89	*	508	540	7.94			
PCB-93	*	*	n	NotFnd	0.82	*	508	540	8.65			
PCB-88	*	*	n	NotFnd	0.91	*	508	540	7.78	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	0.91	*	508	540	7.78	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.08	*	508	540	6.53			
13C-PCB-104	1.71e+07	1.60	y	30:04	0.64	9710				97.1	2.28e+06	1.44e+06
13C-PCB-28	5.34e+07	1.04	y	26:43	1.96	9830				98.3	5.87e+06	5.66e+06
13C-PCB-52	2.76e+07	0.81	y	28:58	-	49.6						

PCB-56	*	*	n	NotFnd	1.22	*	528	848	4.69			Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.22	*	528	848	4.69			Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.22	*	528	848	4.71			
PCB-78	*	*	n	NotFnd	1.17	*	528	848	4.90			
PCB-81	*	*	n	NotFnd	1.24	*	528	848	4.57			
13C-PCB-81	3.49e+07	0.81	y	36:10	1.62	9670				96.7	2.71e+06	3.34e+06
PCB-77	*	*	n	NotFnd	1.18	*	528	848	4.92			
13C-PCB-77	3.55e+07	0.82	y	36:44	1.62	9840				98.4	2.68e+06	3.25e+06
PCB-155	*	*	n	NotFnd	1.16	*	308	256	3.03			
PCB-150	*	*	n	NotFnd	1.03	*	308	256	3.39			
PCB-152	*	*	n	NotFnd	0.97	*	308	256	3.59			
PCB-145	*	*	n	NotFnd	1.00	*	308	256	3.51			
PCB-136	*	*	n	NotFnd	0.89	*	308	256	3.93			
PCB-148	*	*	n	NotFnd	0.83	*	308	256	4.23			
PCB-154	*	*	n	NotFnd	0.88	*	308	256	3.97			
13C-PCB-155	1.85e+07	1.28	y	34:13	0.86	9670				96.7	2.27e+06	1.77e+06
13C-PCB-111	2.49e+07	1.58	y	36:19	1.16	9590				95.9	2.98e+06	1.89e+06
13C-PCB-101	2.23e+07	1.61	y	34:40	-	50.5						
PCB-84	*	*	n	NotFnd	0.65	*	544	654	7.62			Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.65	*	544	654	7.62			Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.62	*	544	654	7.92			
PCB-90	*	*	n	NotFnd	0.71	*	544	654	6.91			Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.71	*	544	654	6.91			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.75	*	544	654	6.59			
PCB-99	*	*	n	NotFnd	0.84	*	544	654	5.85			
PCB-119	*	*	n	NotFnd	0.90	*	544	654	5.47			
PCB-83	*	*	n	NotFnd	0.70	*	544	654	7.01			Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.70	*	544	654	7.01			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.85	*	544	654	5.77			
PCB-97	*	*	n	NotFnd	0.78	*	544	654	6.33			
PCB-86	*	*	n	NotFnd	0.66	*	544	654	7.50			
PCB-125	*	*	n	NotFnd	0.80	*	544	654	6.19			Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.80	*	544	654	6.19			Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.80	*	544	654	6.19			Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	0.98	*	544	654	5.05			Co-elute PCB 115
PCB-115	*	*	n	NotFnd	0.98	*	544	654	5.05			Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.77	*	544	654	6.43			Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.77	*	544	654	6.43			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.89	*	544	654	5.51			
PCB-110	*	*	n	NotFnd	0.92	*	544	654	5.35			
PCB-82	*	*	n	NotFnd	0.51	*	544	654	9.60			
PCB-124	*	*	n	NotFnd	1.11	*	544	1660	8.19			
PCB-108	*	*	n	NotFnd	1.18	*	544	1660	7.73			Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.18	*	544	1660	7.73			Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.37	*	544	1660	6.35			
13C-PCB-123	3.07e+07	1.60	y	38:22	1.46	9390				93.9	3.88e+06	2.44e+06
PCB-118	*	*	n	NotFnd	1.09	*	544	1660	8.05			Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.09	*	544	1660	8.05			Co-elute PCB 118
13C-PCB-118	3.56e+07	1.64	y	38:32	1.59	10000				100	3.88e+06	2.38e+06
PCB-114	*	*	n	NotFnd	1.18	*	544	1660	7.62			
13C-PCB-114	3.27e+07	1.61	y	39:09	1.51	9680				96.8	3.85e+06	2.32e+06
PCB-122	*	*	n	NotFnd	1.15	*	544	1660	7.90			
PCB-105	*	*	n	NotFnd	1.14	*	544	1660	8.64			
13C-PCB-105	3.19e+07	1.60	y	39:59	1.47	9710				97.1	3.47e+06	2.12e+06

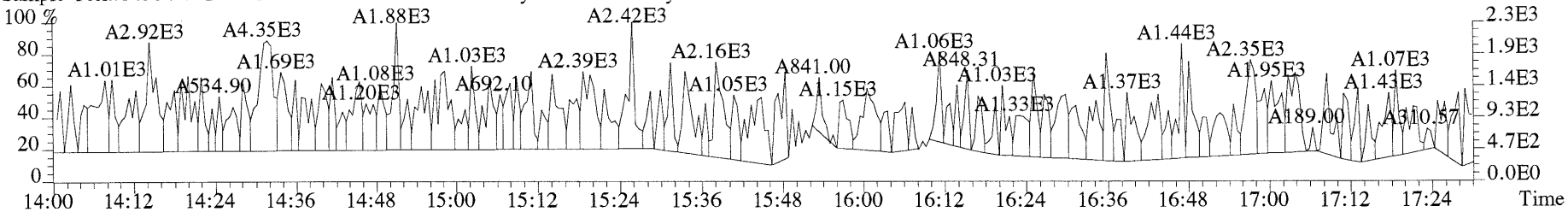
PCB-127	*	*	n	NotFnd	1.02	*	544	1660	8.95				
PCB-126	*	*	n	NotFnd	1.18	*	544	1660	9.27				
13C-PCB-126	3.07e+07	1.64	y	42:07	1.39	9900				99.0	3.14e+06	1.90e+06	
PCB-151	*	*	n	NotFnd	0.89	*	588	492	6.61				
PCB-135	*	*	n	NotFnd	0.90	*	588	492	6.50				
PCB-144	*	*	n	NotFnd	0.85	*	588	492	6.92				
PCB-147	*	*	n	NotFnd	0.90	*	588	492	6.52				
PCB-139	*	*	n	NotFnd	0.95	*	588	492	6.15		Co-elute PCB 149		
PCB-149	*	*	n	NotFnd	0.95	*	588	492	6.15		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.92	*	588	492	6.35				
PCB-143	*	*	n	NotFnd	0.87	*	588	492	6.71		Co-elute PCB 134		
PCB-134	*	*	n	NotFnd	0.87	*	588	492	6.71		Co-elute PCB 143		
PCB-131	*	*	n	NotFnd	0.89	*	588	492	6.56		Co-elute PCB 133		
PCB-133	*	*	n	NotFnd	0.89	*	588	492	6.56		Co-elute PCB 131		
PCB-142	*	*	n	NotFnd	0.77	*	588	492	7.62				
PCB-165	*	*	n	NotFnd	1.04	*	588	492	5.63		Co-elute PCB 146		
PCB-146	*	*	n	NotFnd	1.04	*	588	492	5.63		Co-elute PCB 165		
PCB-161	*	*	n	NotFnd	0.97	*	588	492	6.04		Co-elute PCB 132		
PCB-132	*	*	n	NotFnd	0.97	*	588	492	6.04		Co-elute PCB 161		
PCB-153	*	*	n	NotFnd	1.01	*	588	492	5.83				
PCB-168	*	*	n	NotFnd	1.12	*	588	492	5.23				
PCB-141	*	*	n	NotFnd	0.88	*	588	492	6.66				
PCB-137	*	*	n	NotFnd	0.83	*	588	492	7.08				
PCB-130	*	*	n	NotFnd	0.78	*	588	492	7.52				
PCB-138	*	*	n	NotFnd	1.14	*	588	492	5.13		Co-elute PCB 163/164		
PCB-163	*	*	n	NotFnd	1.14	*	588	492	5.13		Co-elute PCB 138/164		
PCB-164	*	*	n	NotFnd	1.14	*	588	492	5.13		Co-elute PCB 138/163		
PCB-158	*	*	n	NotFnd	1.14	*	588	492	5.14		Co-elute PCB 160		
PCB-160	*	*	n	NotFnd	1.14	*	588	492	5.14		Co-elute PCB 158		
PCB-129	*	*	n	NotFnd	0.73	*	588	492	7.99				
PCB-166	*	*	n	NotFnd	1.07	*	588	492	5.48				
PCB-159	*	*	n	NotFnd	1.17	*	588	492	5.03				
PCB-128	*	*	n	NotFnd	0.97	*	588	492	6.07		Co-elute PCB 162		
PCB-162	*	*	n	NotFnd	0.97	*	588	492	6.07		Co-elute PCB 128		
PCB-167	*	*	n	NotFnd	1.05	*	588	492	5.54				
13C-PCB-167	2.50e+07	1.31	y	43:28	1.15	9700				97.0	2.65e+06	2.01e+06	
PCB-156	*	*	n	NotFnd	1.09	*	588	492	5.69				
13C-PCB-156	2.41e+07	1.29	y	44:42	1.12	9570				95.7	2.44e+06	1.92e+06	
PCB-157	*	*	n	NotFnd	1.13	*	588	492	5.07				
13C-PCB-157	2.53e+07	1.26	y	44:57	1.15	9810				98.1	2.63e+06	2.09e+06	
PCB-169	*	*	n	NotFnd	1.06	*	588	492	5.47				
13C-PCB-169	2.52e+07	1.30	y	46:49	1.08	10400				104	2.59e+06	2.07e+06	

FAL ID: 04584-001-0001-MB Filename: 27JUL18Z Sam:4 Acquired: 27-JUL-18 11:47:50 ICal: DAILY209FAL4-7-27-18
Client ID: Method Blank ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

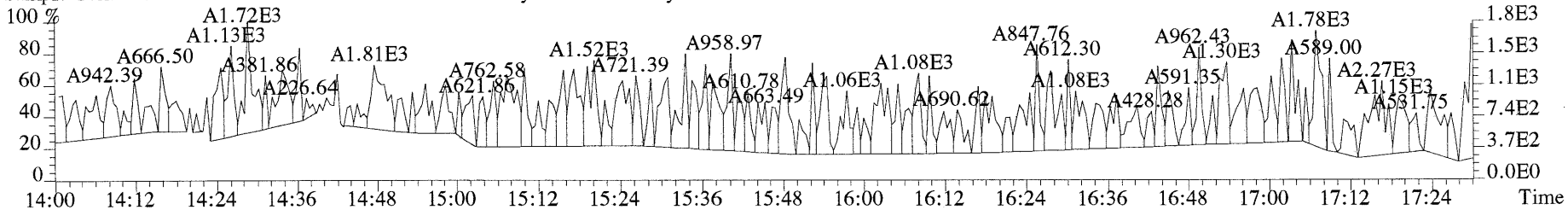
PCB-188	*	*	n	NotFnd	1.17	*	440	288	3.72			
13C-PCB-188	1.97e+07	1.09	y	39:42	0.93	9490				94.9	2.18e+06	1.99e+06
PCB-184	*	*	n	NotFnd	1.22	*	440	288	3.46			
PCB-179	*	*	n	NotFnd	1.12	*	440	288	3.77			
PCB-176	*	*	n	NotFnd	1.09	*	440	288	3.85			
PCB-186	*	*	n	NotFnd	1.14	*	440	288	3.70			
PCB-178	*	*	n	NotFnd	0.80	*	440	288	5.27			
PCB-175	*	*	n	NotFnd	0.85	*	440	288	4.98			
PCB-187	*	*	n	NotFnd	0.95	*	440	288	4.41		Co-elute PCB 182	
PCB-182	*	*	n	NotFnd	0.95	*	440	288	4.41		Co-elute PCB 187	
PCB-183	*	*	n	NotFnd	0.91	*	440	288	4.64			
PCB-185	*	*	n	NotFnd	0.88	*	440	288	4.79			
PCB-174	*	*	n	NotFnd	0.81	*	440	288	5.20			
PCB-181	*	*	n	NotFnd	0.92	*	440	288	4.56			
PCB-177	*	*	n	NotFnd	0.79	*	440	288	5.33			
PCB-171	*	*	n	NotFnd	0.83	*	440	288	5.08			
PCB-173	*	*	n	NotFnd	0.78	*	440	288	5.38			
PCB-172	*	*	n	NotFnd	0.79	*	440	288	5.33			
PCB-192	*	*	n	NotFnd	1.08	*	440	288	3.91			
PCB-180	*	*	n	NotFnd	1.04	*	440	288	4.03			
PCB-193	*	*	n	NotFnd	1.12	*	440	288	3.76			
PCB-191	*	*	n	NotFnd	1.05	*	440	288	4.02			
PCB-170	*	*	n	NotFnd	0.75	*	440	288	5.61			
PCB-190	*	*	n	NotFnd	1.02	*	440	288	4.15			
PCB-189	*	*	n	NotFnd	1.13	*	440	288	3.57			
13C-PCB-189	1.80e+07	1.09	y	48:27	0.81	9880				98.8	2.33e+06	2.18e+06
PCB-202	*	*	n	NotFnd	1.00	*	192	232	3.89			
PCB-201	*	*	n	NotFnd	0.95	*	192	232	4.11			
PCB-204	*	*	n	NotFnd	0.97	*	192	232	4.00			
PCB-197	*	*	n	NotFnd	1.05	*	192	232	3.72			
PCB-200	*	*	n	NotFnd	0.97	*	192	232	4.01			
PCB-198	*	*	n	NotFnd	0.70	*	192	232	5.58			
PCB-199	*	*	n	NotFnd	0.78	*	192	232	5.01			
PCB-203	*	*	n	NotFnd	0.80	*	192	232	4.84		Co-elute PCB 196	
PCB-196	*	*	n	NotFnd	0.80	*	192	232	4.84		Co-elute PCB 203	
13C-PCB-202	1.33e+07	0.92	y	44:48	0.60	9820				98.2	1.30e+06	1.43e+06
13C-PCB-178	1.47e+07	1.09	y	42:22	0.67	9870				98.7	1.55e+06	1.42e+06
13C-PCB-138	2.24e+07	1.28	y	41:36	-	51.8						
PCB-195	*	*	n	NotFnd	0.78	*	300	548	3.07			
PCB-194	*	*	n	NotFnd	0.83	*	300	548	2.88			
PCB-205	*	*	n	NotFnd	1.12	*	300	548	2.14			
13C-PCB-205	3.10e+07	0.93	y	50:06	1.29	9870				98.7	4.23e+06	4.66e+06
PCB-208	*	*	n	NotFnd	1.01	*	354	204	1.46			
13C-PCB-208	2.68e+07	0.81	y	49:10	1.11	9940				99.4	4.26e+06	5.25e+06
PCB-207	*	*	n	NotFnd	0.98	*	354	204	1.97			
PCB-206	*	*	n	NotFnd	1.02	*	354	204	2.49			
13C-PCB-206	2.03e+07	0.80	y	51:18	0.89	9380				93.8	2.43e+06	3.09e+06
PCB-209	*	*	n	NotFnd	1.11	*	354	360	2.33			
13C-PCB-209	2.28e+07	1.21	y	52:29	0.97	9630				96.3	3.78e+06	3.13e+06
13C-PCB-194	2.43e+07	0.93	y	49:52	-	55.1						

Analyst: [illegible] Date: 8/20/18

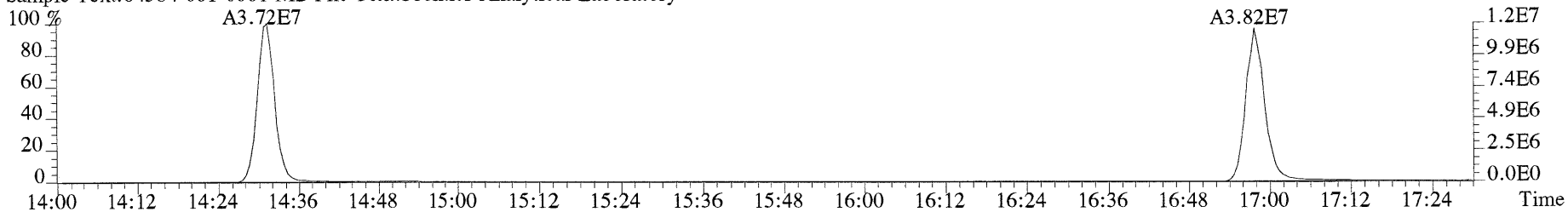
File:27JUL18Z #1-783 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



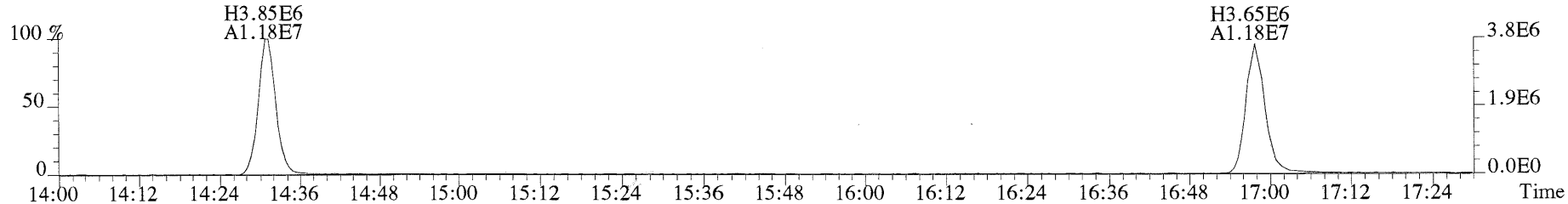
File:27JUL18Z #1-783 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



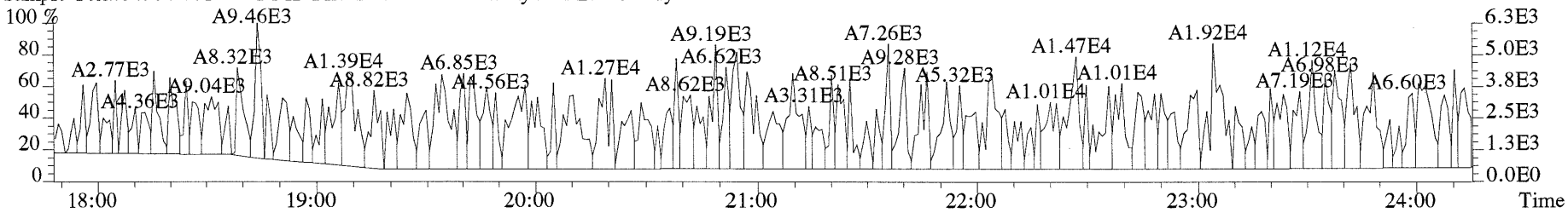
File:27JUL18Z #1-783 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



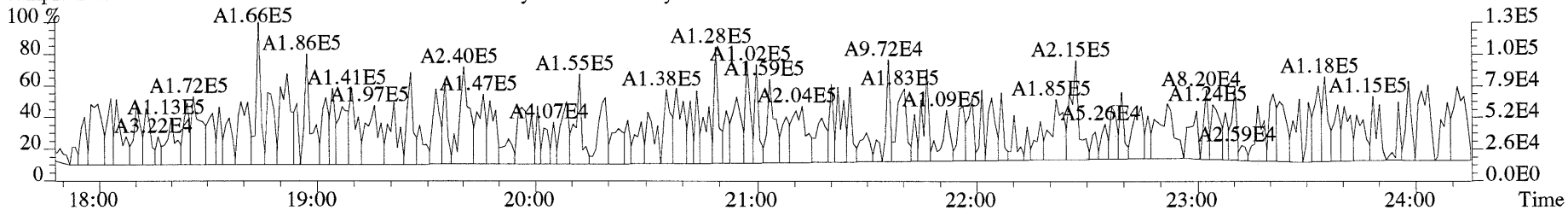
File:27JUL18Z #1-783 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



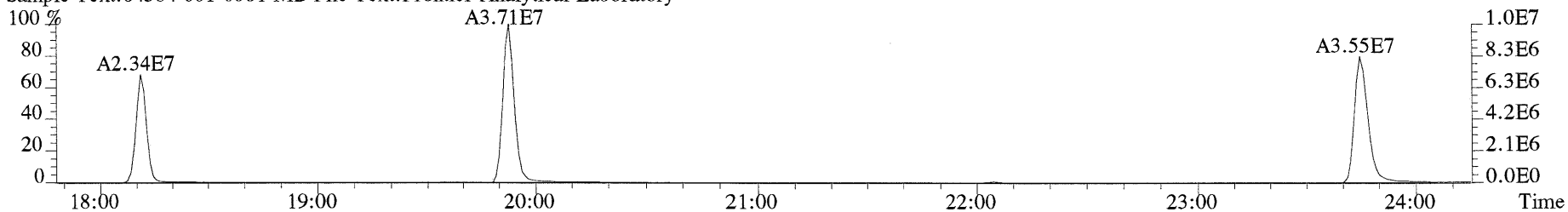
File:27JUL18Z #1-521 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



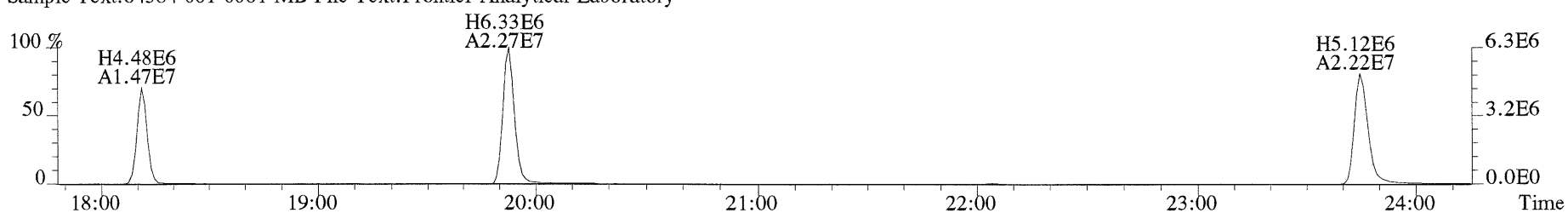
File:27JUL18Z #1-521 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



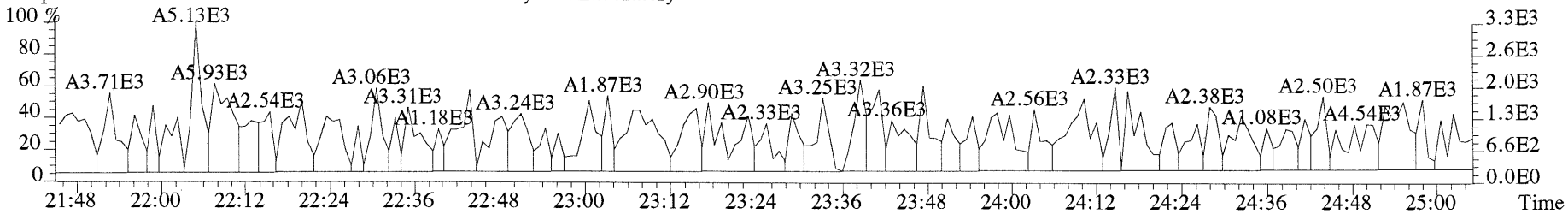
File:27JUL18Z #1-521 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



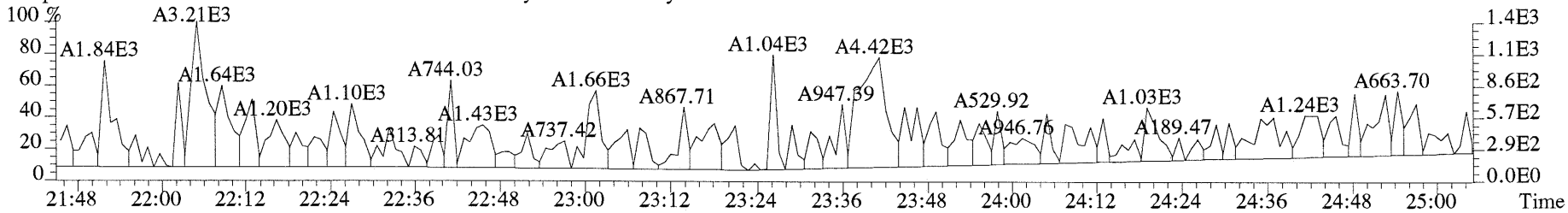
File:27JUL18Z #1-521 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



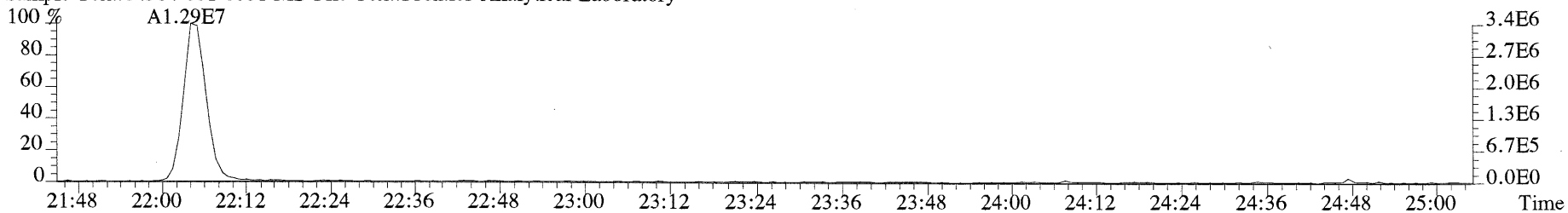
File:27JUL18Z #1-521 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



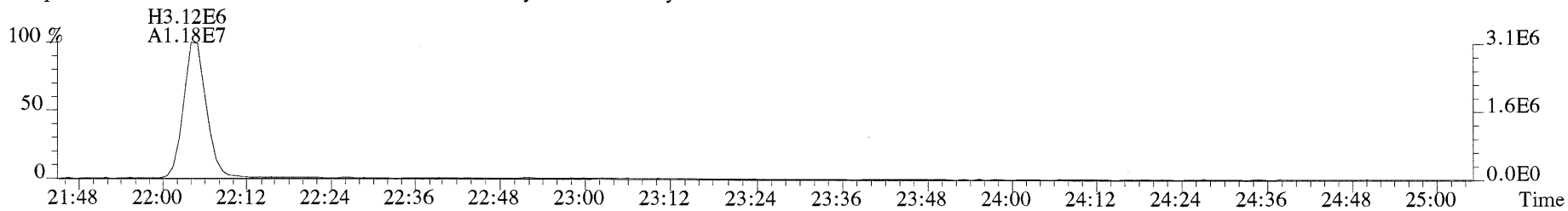
File:27JUL18Z #1-521 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



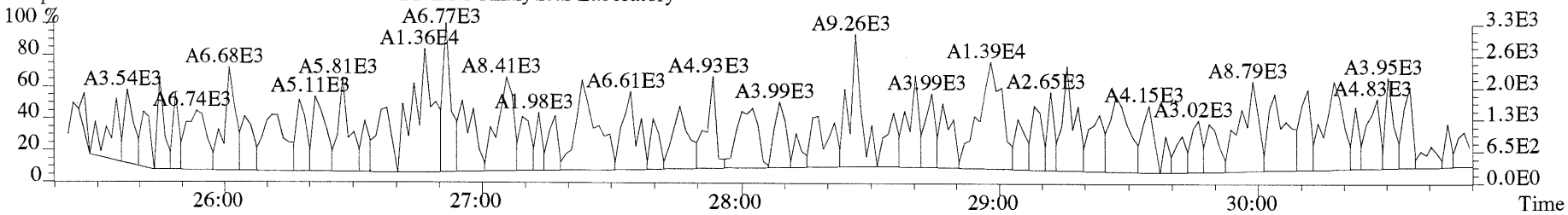
File:27JUL18Z #1-521 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



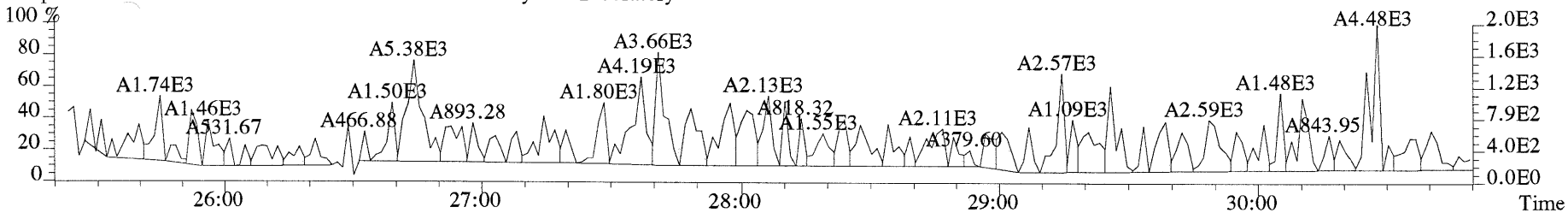
File:27JUL18Z #1-521 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



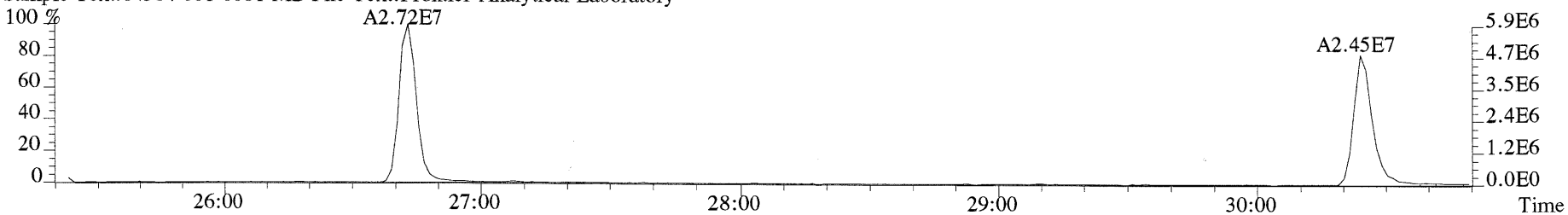
File:27JUL18Z #1-401 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



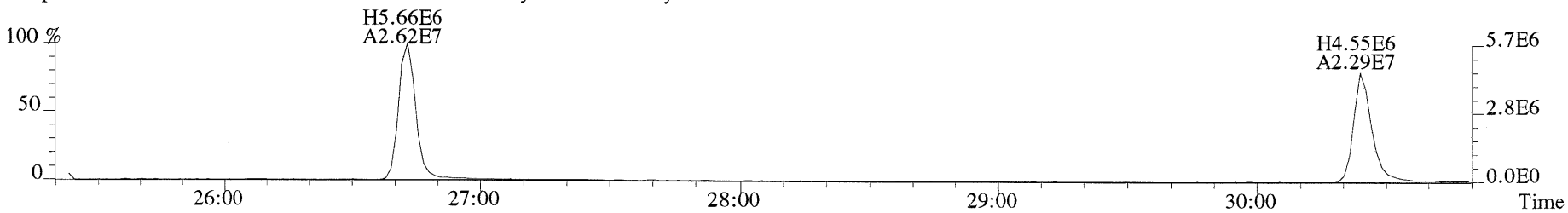
File:27JUL18Z #1-401 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



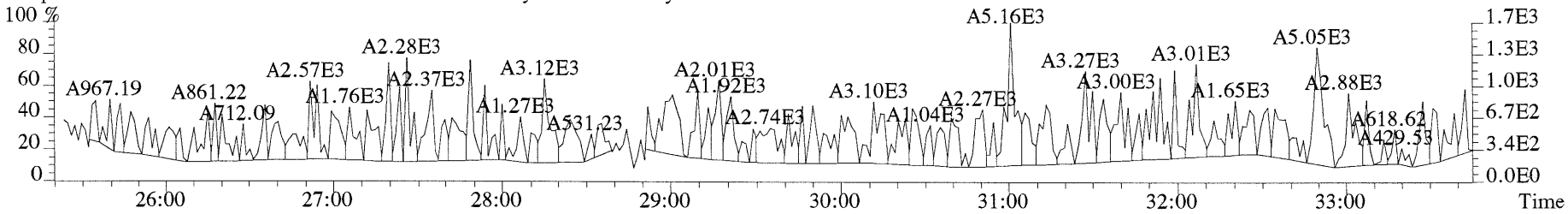
File:27JUL18Z #1-401 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



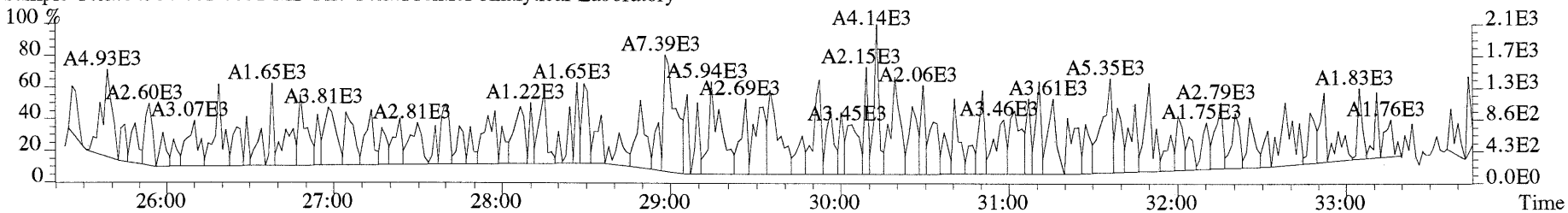
File:27JUL18Z #1-401 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



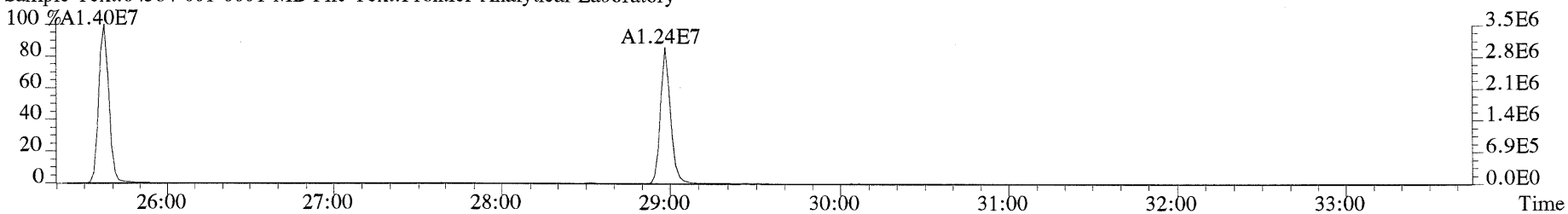
File:27JUL18Z #1-401 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



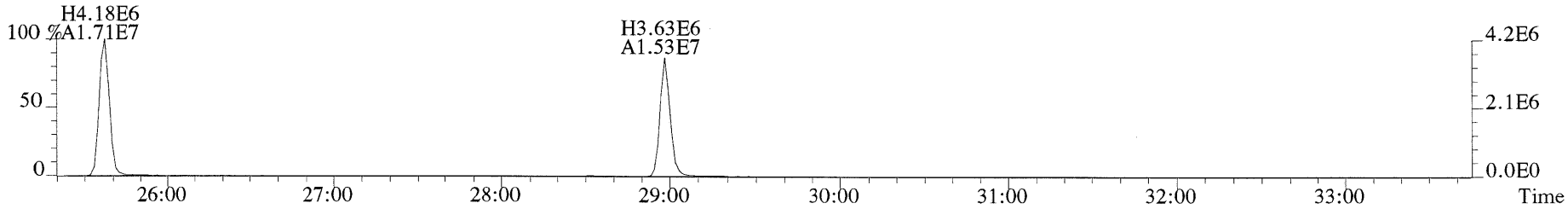
File:27JUL18Z #1-401 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



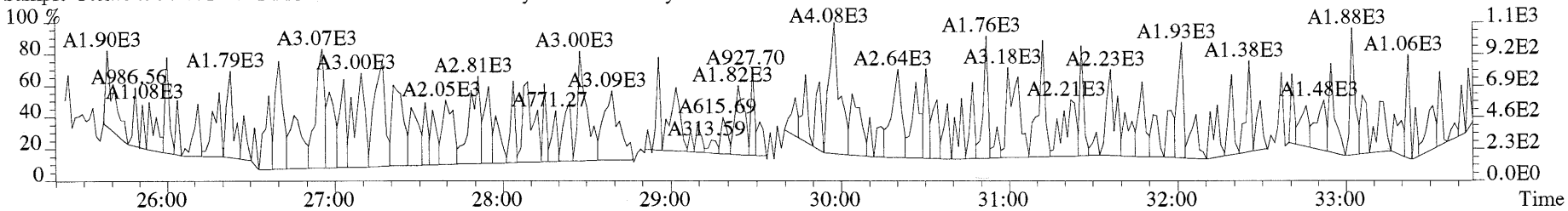
File:27JUL18Z #1-401 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



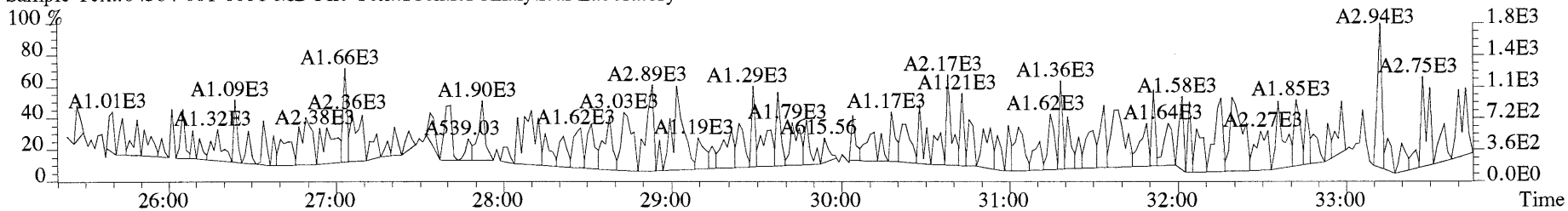
File:27JUL18Z #1-401 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



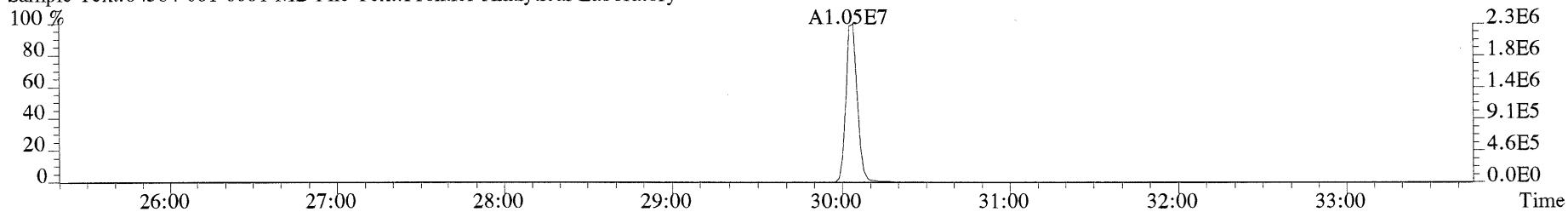
File:27JUL18Z #1-401 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



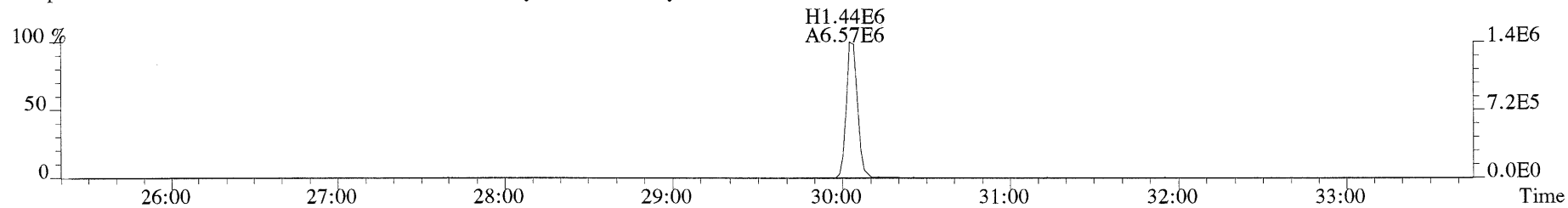
File:27JUL18Z #1-401 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



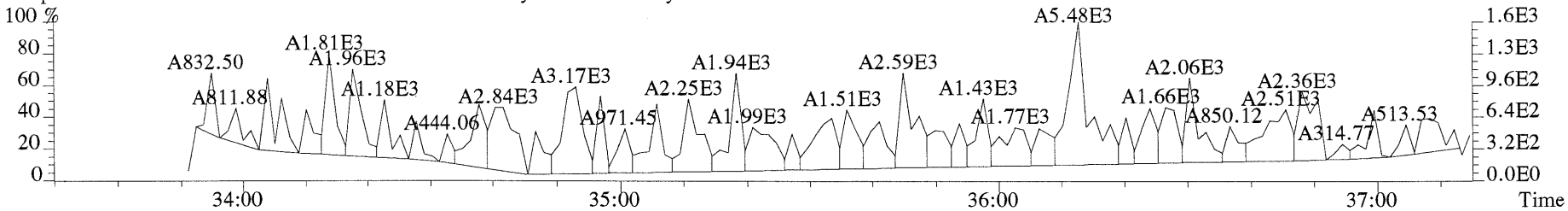
File:27JUL18Z #1-401 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-183 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



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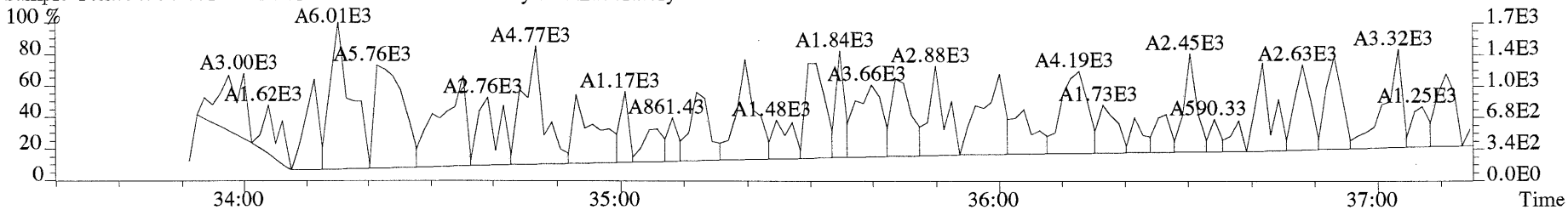

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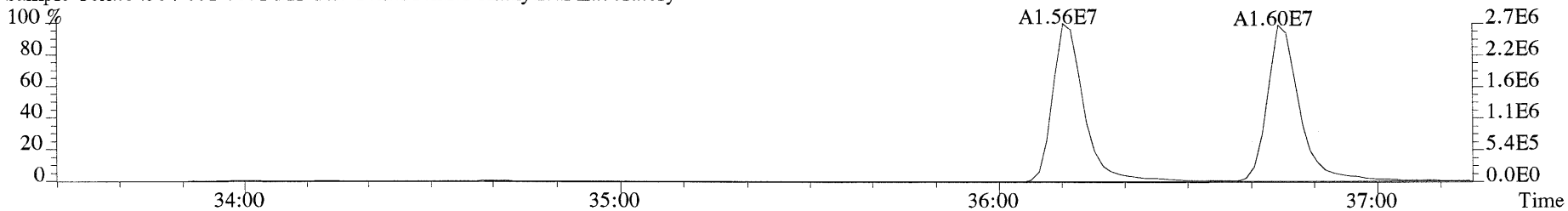

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303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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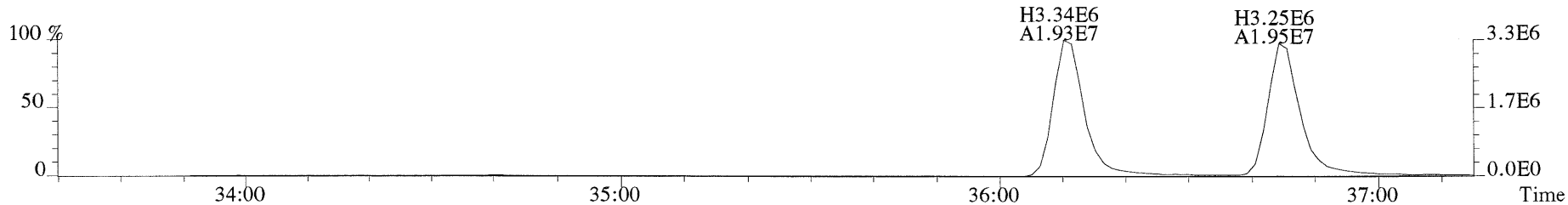

File:27JUL18Z #1-183 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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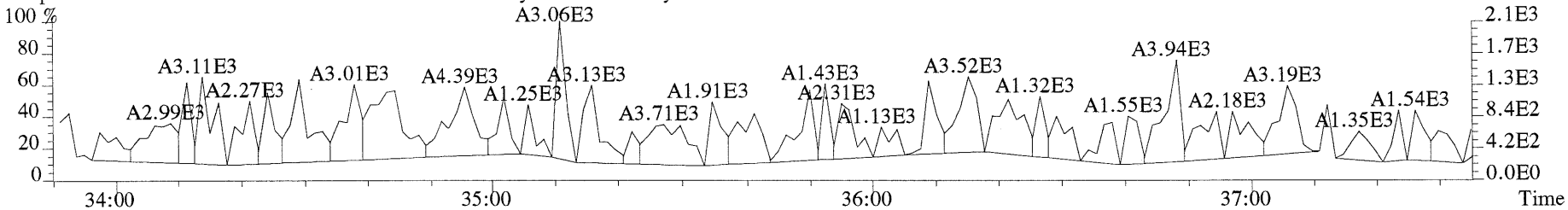
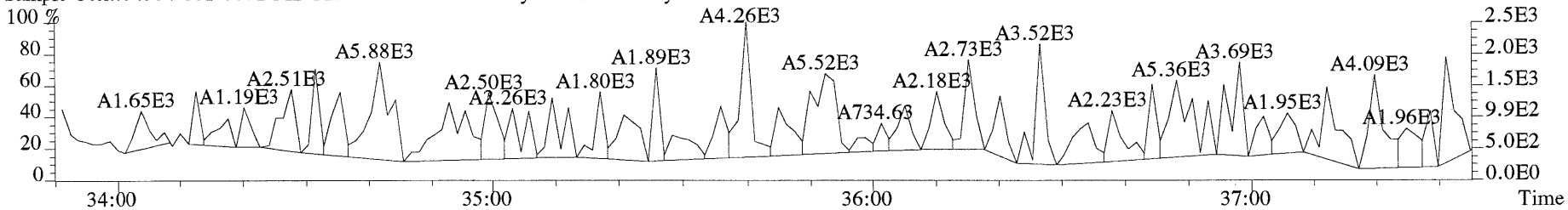
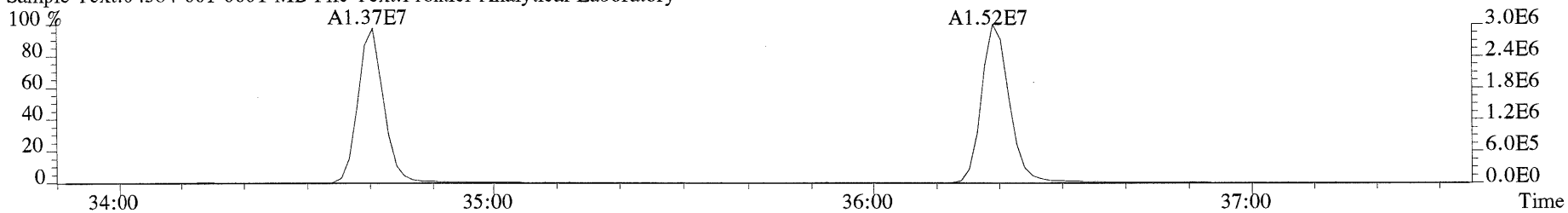


File:27JUL18Z #1-183 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-183 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



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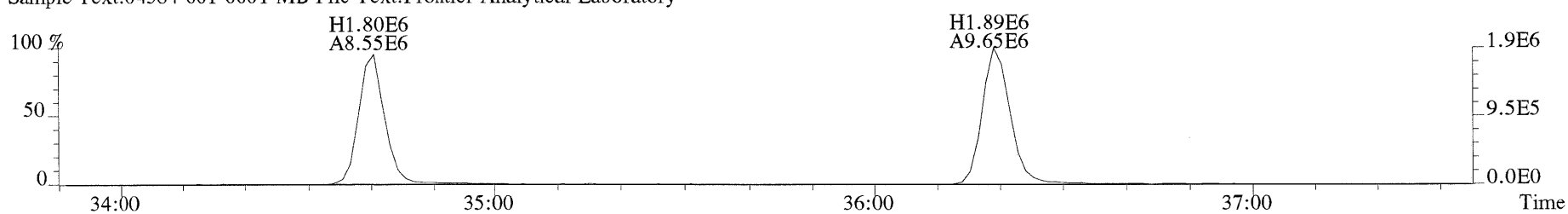
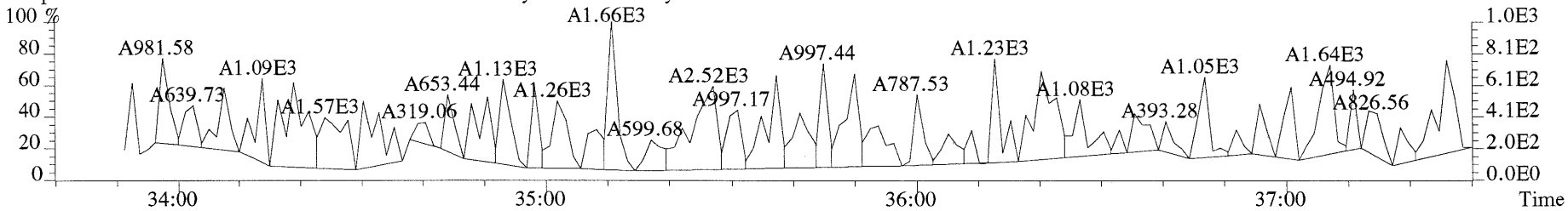
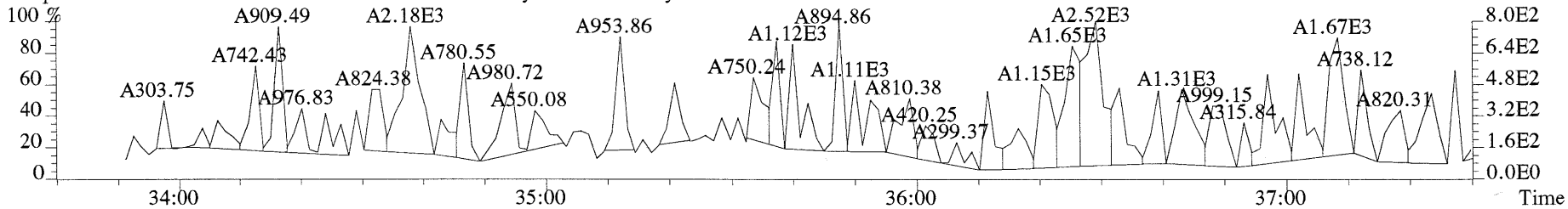
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



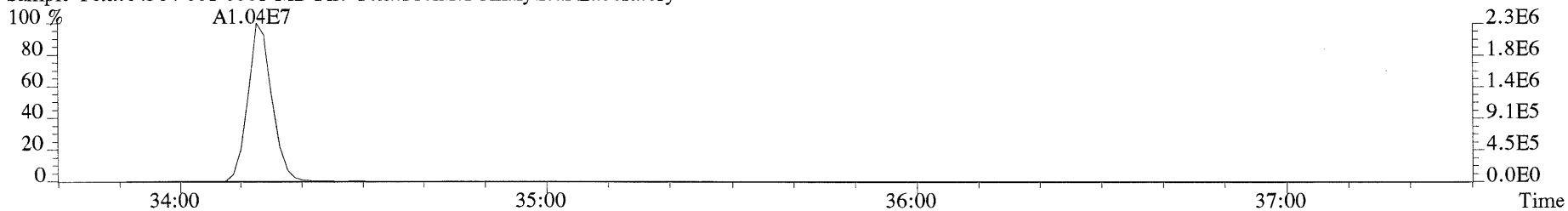
File:27JUL18Z #1-183 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-183 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-183 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



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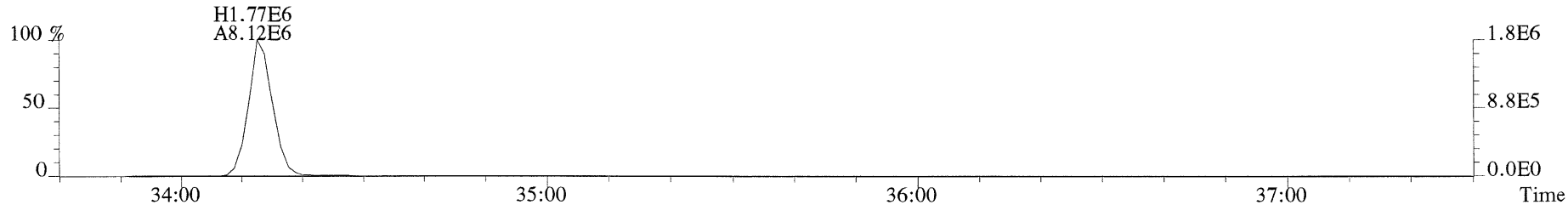
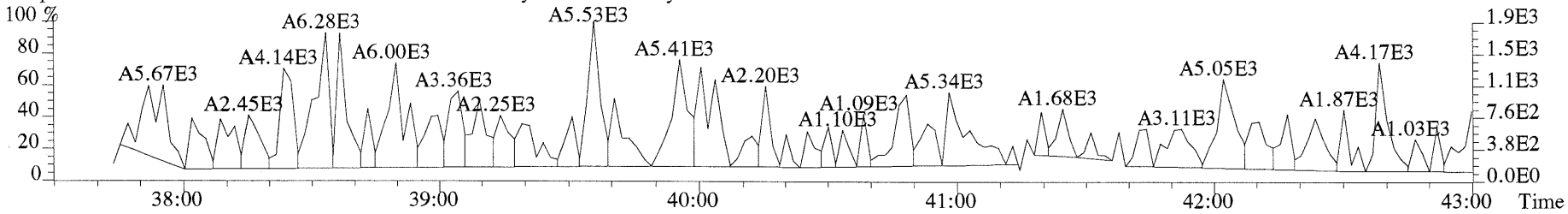
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-403 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-403 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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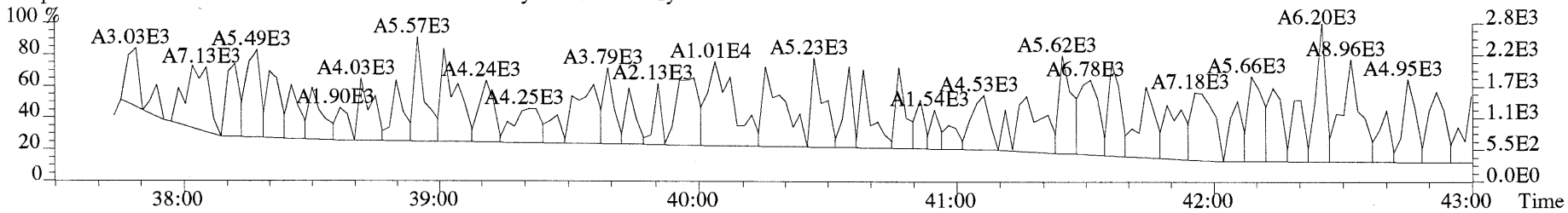
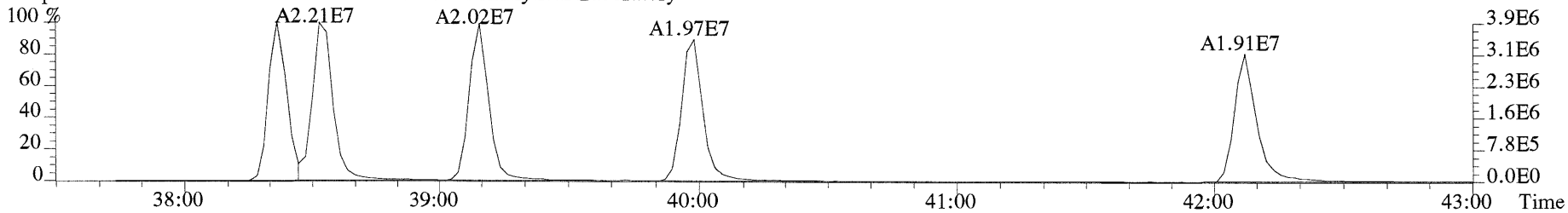


File:27JUL18Z #1-403 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-403 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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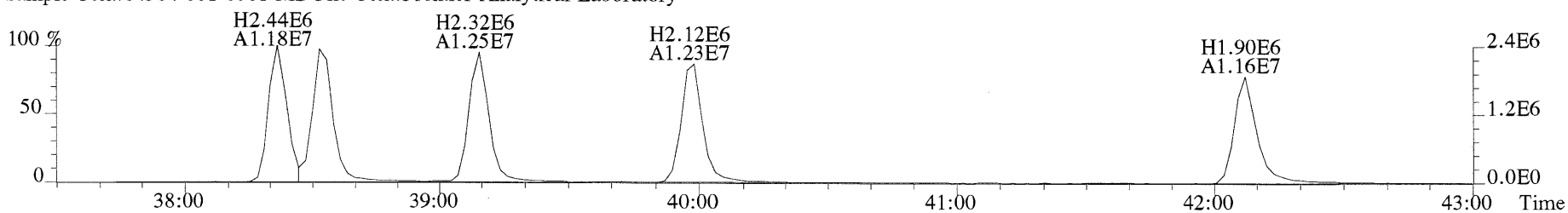
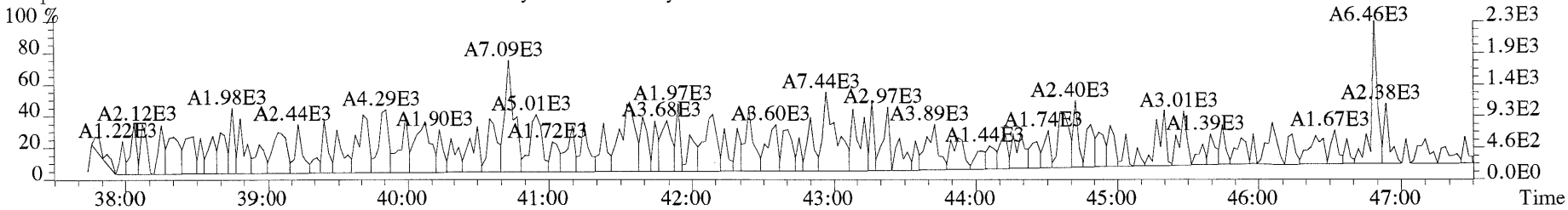


File:27JUL18Z #1-403 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



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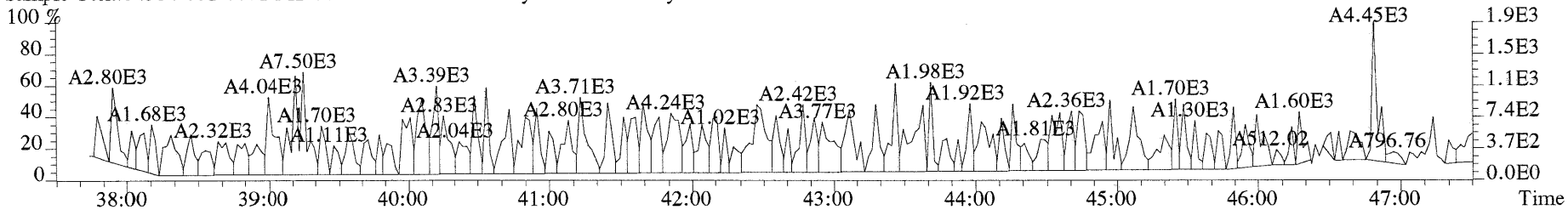
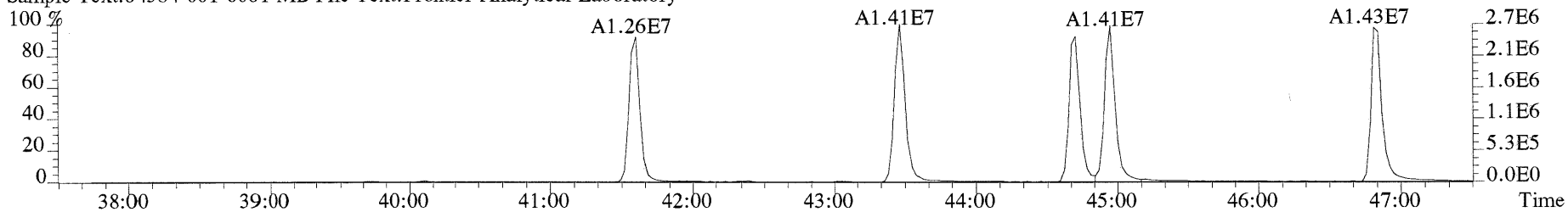
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-403 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



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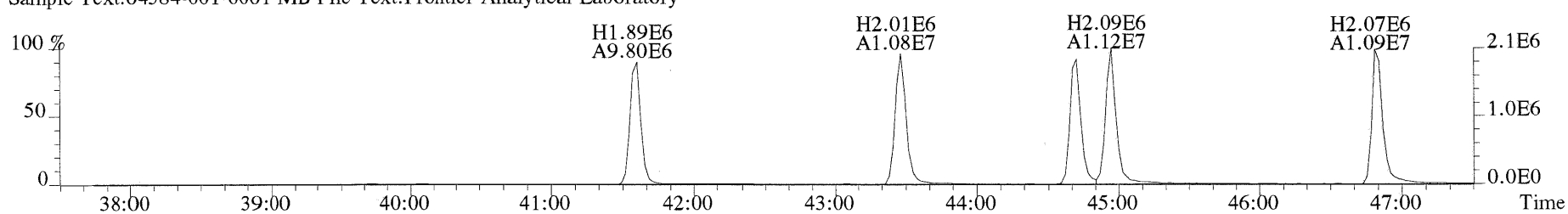
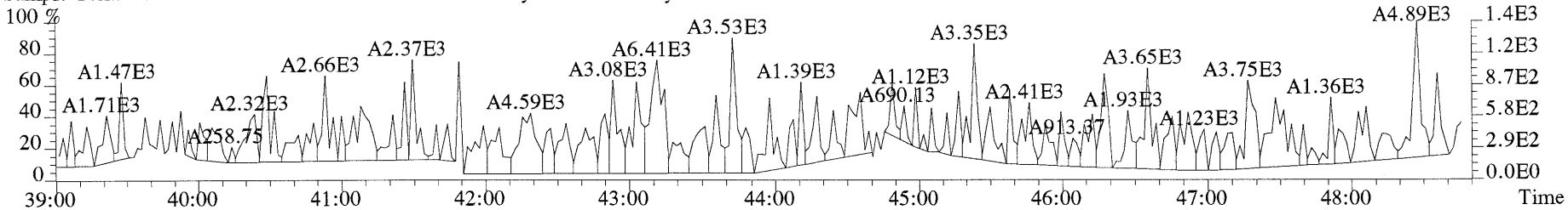
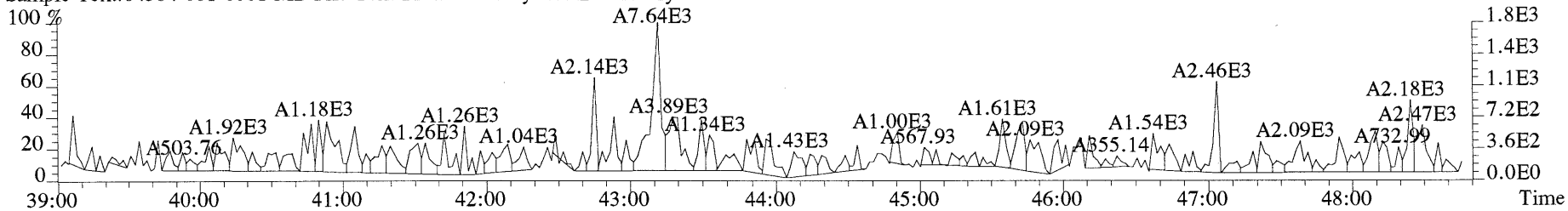
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-403 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-403 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



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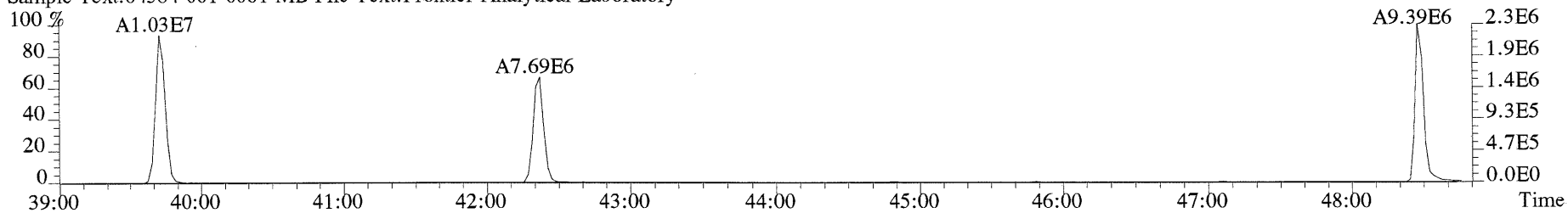
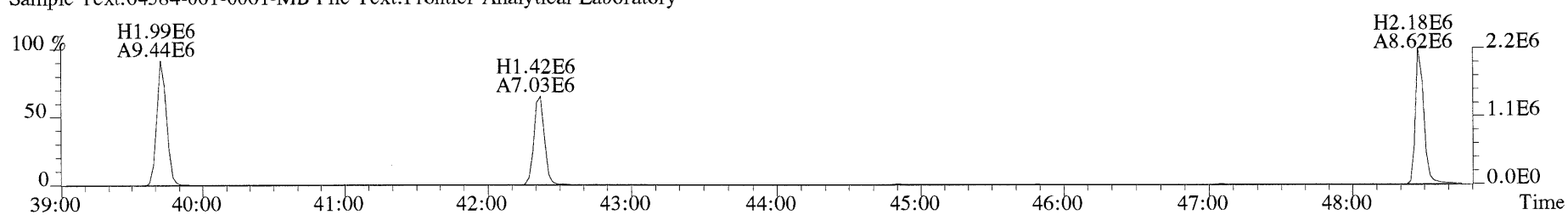
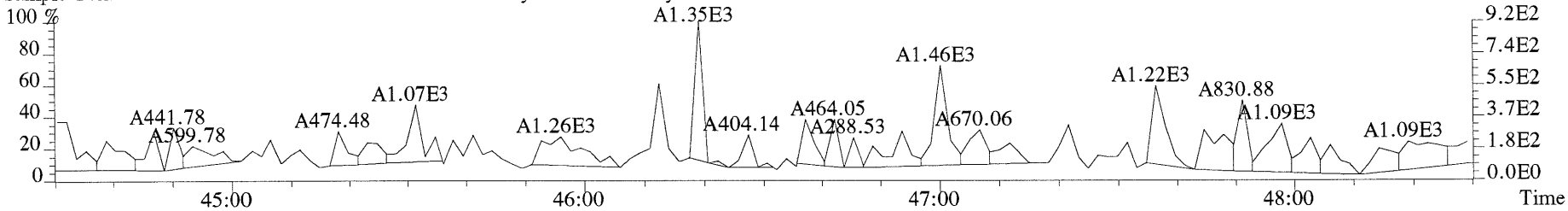
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



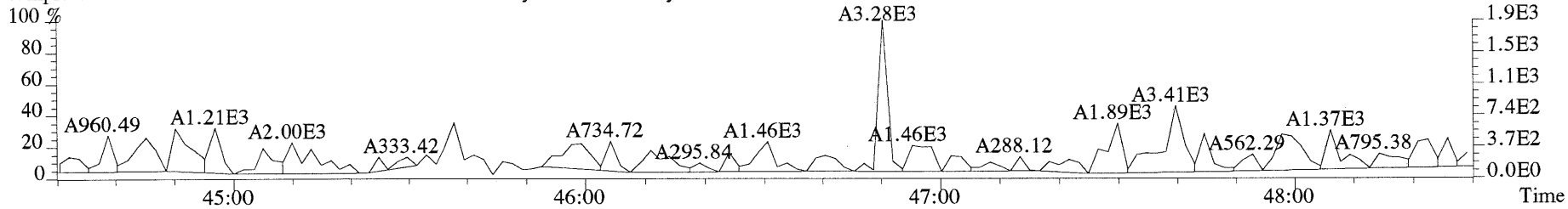
File:27JUL18Z #1-403 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



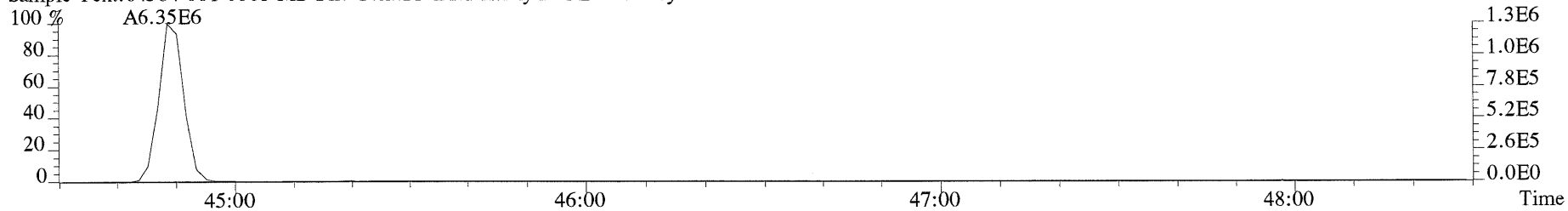
File:27JUL18Z #1-403 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



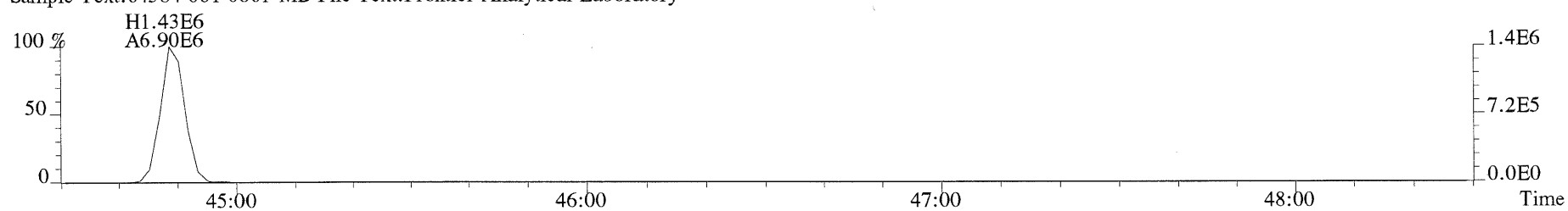
File:27JUL18Z #1-403 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



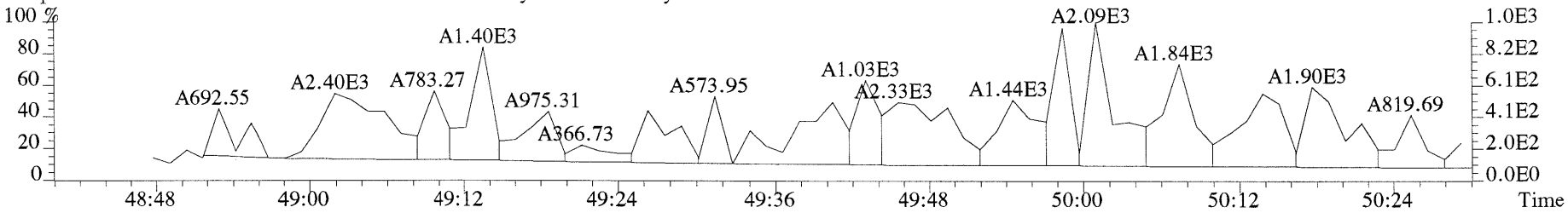
File:27JUL18Z #1-403 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



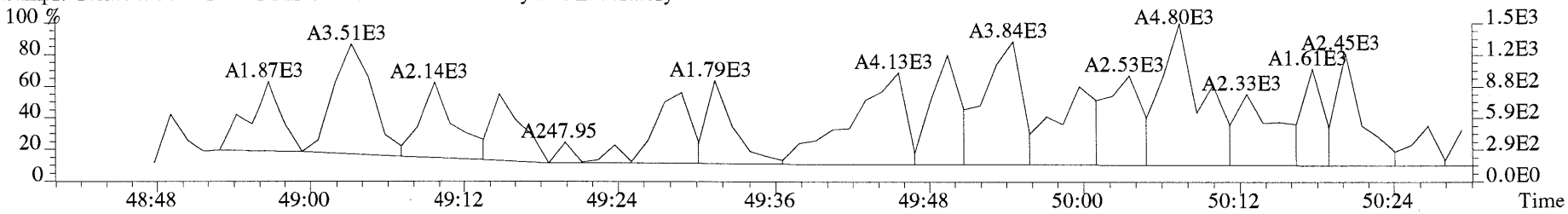
File:27JUL18Z #1-403 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-297 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-297 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



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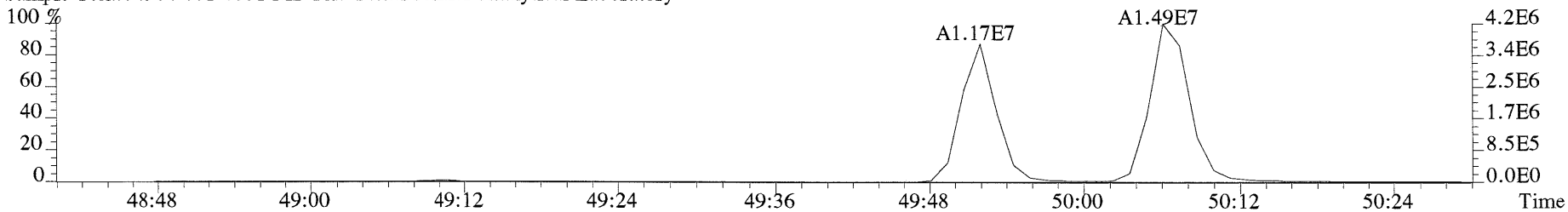
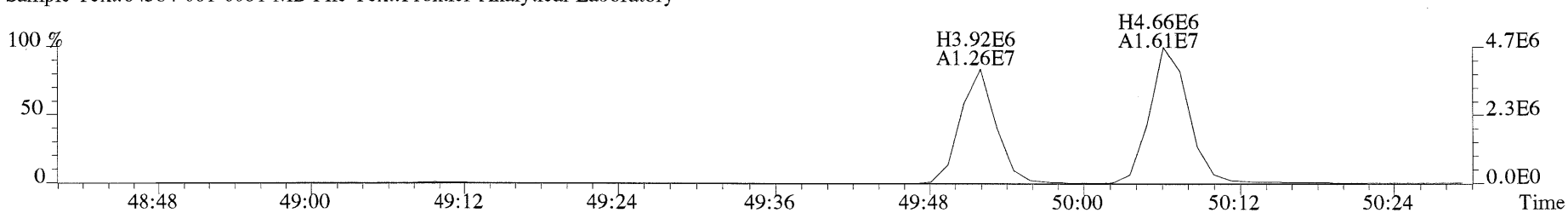
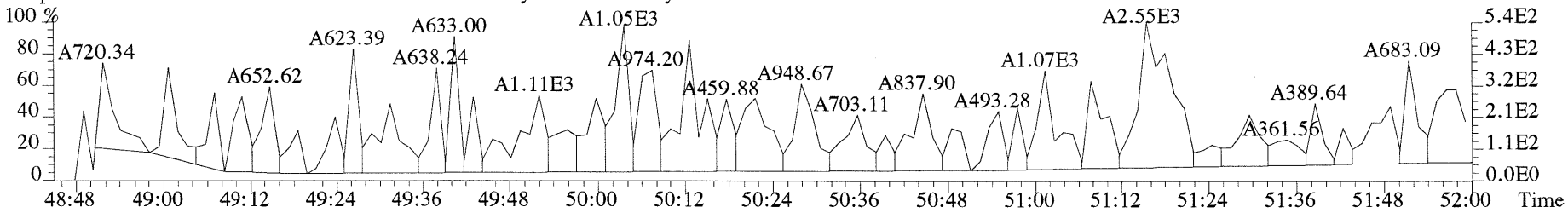
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



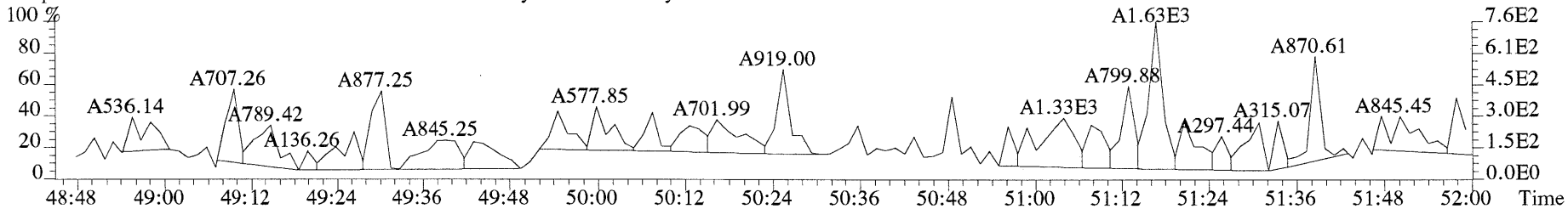
File:27JUL18Z #1-297 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



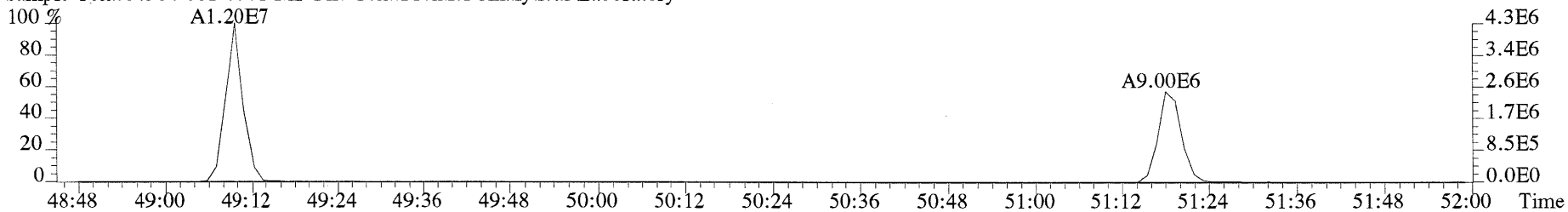
File:27JUL18Z #1-298 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



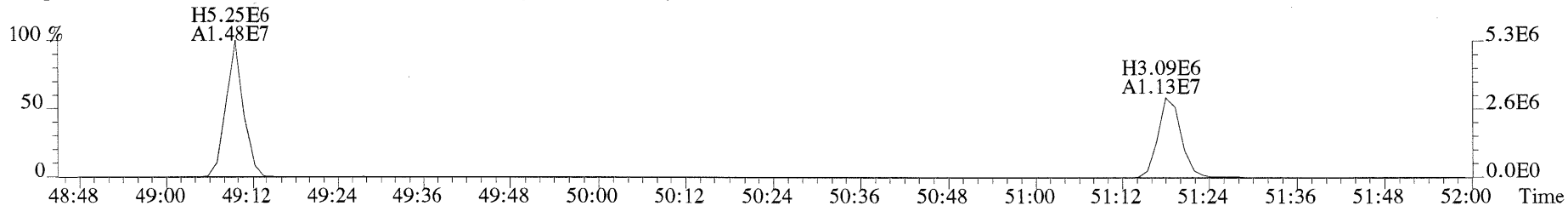
File:27JUL18Z #1-299 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



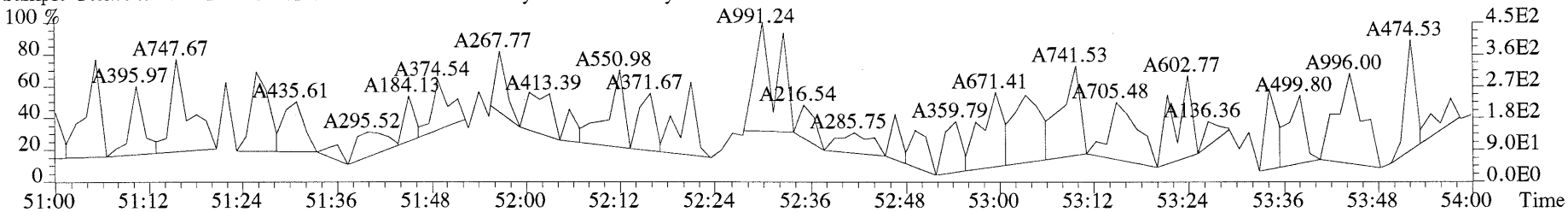
File:27JUL18Z #1-299 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



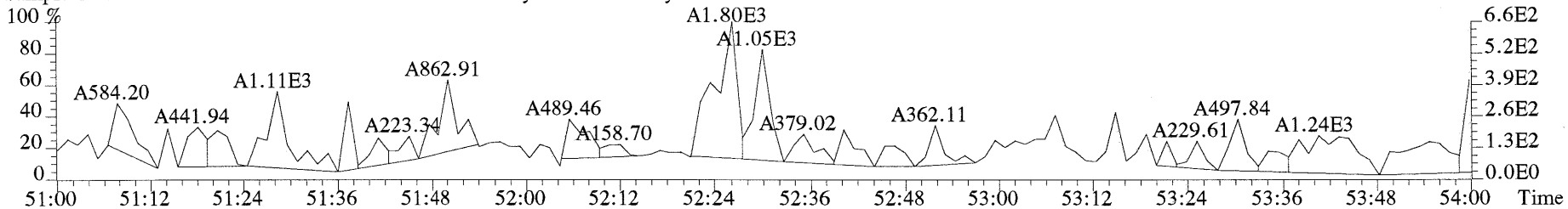
File:27JUL18Z #1-299 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



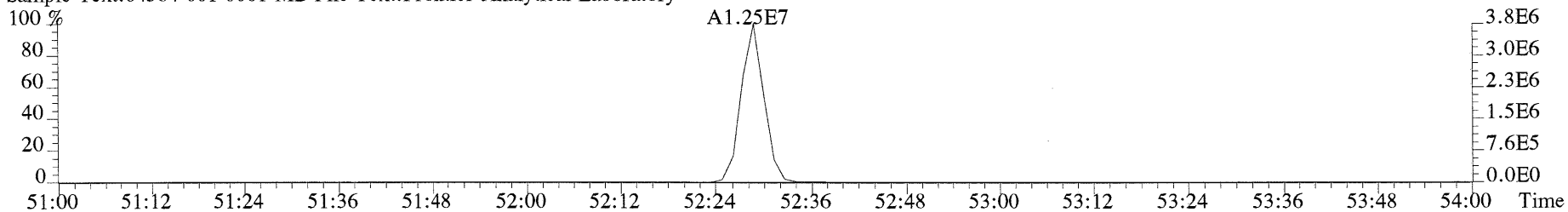
File:27JUL18Z #1-300 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



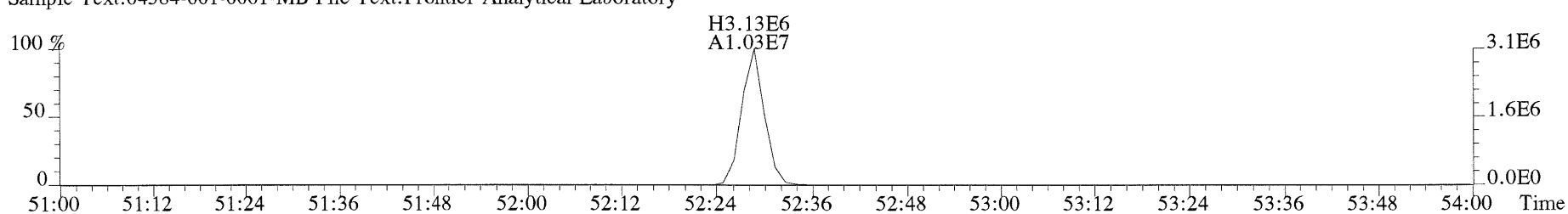
File:27JUL18Z #1-300 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-300 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-300 Acq:27-JUL-2018 11:47:50 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-MB File Text:Frontier Analytical Laboratory



4584-001-0001-OPR

Frontier Analytical Laboratory

FORM 8A

209 PCB ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 27JUL18Z Sam:3

Ext. Date: 7/19/18 Shift: Day Analysis Date: 27-JUL-18 10:49:29

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	56.3	30.0 - 67.5
PCB-3	50	57.6	30.0 - 67.5
PCB-4	50	50.1	30.0 - 67.5
PCB-15	50	54.0	30.0 - 67.5
PCB-19	50	57.8	30.0 - 67.5
PCB-37	50	55.2	30.0 - 67.5
PCB-54	50	58.2	30.0 - 67.5
PCB-77	50	58.7	30.0 - 67.5
PCB-81	50	57.6	30.0 - 67.5
PCB-104	50	59.1	30.0 - 67.5
PCB-105	50	56.7	30.0 - 67.5
PCB-114	50	57.7	30.0 - 67.5
PCB-118	50	64.3	30.0 - 67.5
PCB-123	50	48.0	30.0 - 67.5
PCB-126	50	54.6	30.0 - 67.5
PCB-155	50	58.5	30.0 - 67.5
PCB-156	50	59.3	30.0 - 67.5
PCB-157	50	53.8	30.0 - 67.5
PCB-167	50	60.9	30.0 - 67.5
PCB-169	50	62.3	30.0 - 67.5
PCB-188	50	58.2	30.0 - 67.5
PCB-189	50	58.4	30.0 - 67.5
PCB-202	50	62.8	30.0 - 67.5
PCB-205	50	58.2	30.0 - 67.5
PCB-206	50	59.3	30.0 - 67.5
PCB-208	50	57.4	30.0 - 67.5
PCB-209	50	58.5	30.0 - 67.5

Analyst: [signature] Date: 7/27/18

Frontier Analytical Laboratory

FORM 8B
209 PCB ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 27JUL18Z Sam:3

Ext. Date: 7/19/18 Shift: Day Analysis Date: 27-JUL-18 10:49:29

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	91.0	15.0 - 145
13C-PCB-3	100	91.1	15.0 - 145
13C-PCB-4	100	93.1	15.0 - 145
13C-PCB-15	100	94.4	15.0 - 145
13C-PCB-19	100	94.3	15.0 - 145
13C-PCB-37	100	97.2	15.0 - 145
13C-PCB-54	100	100	15.0 - 145
13C-PCB-77	100	95.7	40.0 - 145
13C-PCB-81	100	93.5	40.0 - 145
13C-PCB-104	100	97.6	40.0 - 145
13C-PCB-105	100	98.7	40.0 - 145
13C-PCB-114	100	95.5	40.0 - 145
13C-PCB-118	100	99.0	40.0 - 145
13C-PCB-123	100	97.1	40.0 - 145
13C-PCB-126	100	96.7	40.0 - 145
13C-PCB-155	100	94.4	40.0 - 145
13C-PCB-156	100	93.1	40.0 - 145
13C-PCB-157	100	97.9	40.0 - 145
13C-PCB-167	100	96.0	40.0 - 145
13C-PCB-169	100	93.0	40.0 - 145
13C-PCB-188	100	97.6	40.0 - 145
13C-PCB-189	100	95.5	40.0 - 145
13C-PCB-202	100	96.9	40.0 - 145
13C-PCB-205	100	93.3	40.0 - 145
13C-PCB-206	100	91.3	40.0 - 145
13C-PCB-208	100	94.6	40.0 - 145
13C-PCB-209	100	94.8	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	99.9	15.0 - 145
13C-PCB-111	100	96.1	40.0 - 145
13C-PCB-178	100	100	40.0 - 145

Analyst: [illegible] Date: 7/27/18

FAL ID: 04584-001-0001-OPR Filename: 27JUL18Z Sam:3 Acquired: 27-JUL-18 10:49:29 ICal: DAILY209FAL4-7-27-18 1 of 2
Client ID: OPR ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

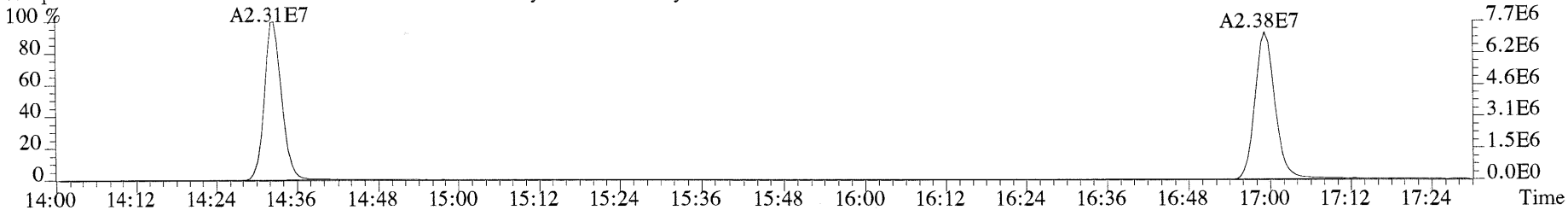
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.03e+07	3.20 y	14:33	1.17	56.3		2.50	-	-	*	
13C-PCB-1	4.61e+07	3.20 y	14:32	0.92	91.0		2.50				91.0
PCB-3	3.12e+07	3.22 y	16:59	1.16	57.6		2.50	-	-	*	
13C-PCB-3	4.67e+07	3.23 y	16:58	0.93	91.1		2.50				91.1
PCB-4	2.47e+07	1.51 y	18:13	1.42	50.1		2.50	-	-	*	
13C-PCB-4	3.46e+07	1.60 y	18:12	0.68	93.1		2.50				93.1
PCB-15	3.54e+07	1.59 y	23:46	1.26	54.0		2.50	-	-	*	
13C-PCB-15	5.20e+07	1.63 y	23:45	1.00	94.4		2.50				94.4
PCB-19	1.59e+07	1.07 y	22:06	1.19	57.8		2.50	-	-	*	
13C-PCB-19	2.30e+07	1.08 y	22:05	0.44	94.3		2.50				94.3
13C-PCB-9	5.50e+07	1.62 y	19:52	-	48.1		2.50				
PCB-37	2.81e+07	1.02 y	30:26	1.22	55.2		2.50	-	-	*	
13C-PCB-37	4.19e+07	1.07 y	30:25	1.72	97.2		2.50				97.2
PCB-54	2.01e+07	0.80 y	25:38	1.21	58.2		2.50	-	-	*	
13C-PCB-54	2.87e+07	0.81 y	25:37	1.14	100		2.50				100
PCB-104	1.16e+07	1.62 y	30:05	1.26	59.1		2.50	-	-	*	
13C-PCB-104	1.56e+07	1.65 y	30:04	0.64	97.6		2.50				97.6
13C-PCB-28	4.93e+07	1.05 y	26:43	1.96	99.9		2.50				99.9
13C-PCB-52	2.51e+07	0.81 y	28:59	-	45.1		2.50				
PCB-81	2.25e+07	0.80 y	36:13	1.24	57.6		2.50	-	-	*	
13C-PCB-81	3.15e+07	0.81 y	36:11	1.62	93.5		2.50				93.5
PCB-77	2.22e+07	0.78 y	36:47	1.18	58.7		2.50	-	-	*	
13C-PCB-77	3.22e+07	0.81 y	36:45	1.62	95.7		2.50				95.7
PCB-155	1.14e+07	1.30 y	34:15	1.16	58.5		2.50	-	-	*	
13C-PCB-155	1.68e+07	1.26 y	34:14	0.86	94.4		2.50				94.4
13C-PCB-111	2.33e+07	1.61 y	36:20	1.16	96.1		2.50				96.1
13C-PCB-101	2.08e+07	1.63 y	34:40	-	47.1		2.50				
PCB-123	1.93e+07	1.56 y	38:23	1.37	48.0		2.50	-	-	*	
13C-PCB-123	2.93e+07	1.61 y	38:22	1.46	97.1		2.50				97.1
PCB-118	2.28e+07	1.58 y	38:33	1.09	64.3		2.50	-	-	*	
13C-PCB-118	3.25e+07	1.64 y	38:33	1.59	99.0		2.50				99.0
PCB-114	2.02e+07	1.60 y	39:11	1.18	57.7		2.50	-	-	*	
13C-PCB-114	2.98e+07	1.62 y	39:09	1.51	95.5		2.50				95.5
PCB-105	1.94e+07	1.62 y	40:00	1.14	56.7		2.50	-	-	*	
13C-PCB-105	2.99e+07	1.62 y	39:59	1.47	98.7		2.50				98.7
PCB-126	1.78e+07	1.57 y	42:09	1.18	54.6		2.50	-	-	*	
13C-PCB-126	2.77e+07	1.62 y	42:07	1.39	96.7		2.50				96.7
PCB-167	1.45e+07	1.30 y	43:29	1.05	60.9		2.50	-	-	*	
13C-PCB-167	2.28e+07	1.26 y	43:28	1.15	96.0		2.50				96.0
PCB-156	1.39e+07	1.26 y	44:43	1.09	59.3		2.50	-	-	*	
13C-PCB-156	2.16e+07	1.30 y	44:42	1.12	93.1		2.50				93.1
PCB-157	1.41e+07	1.28 y	44:58	1.13	53.8		2.50	-	-	*	
13C-PCB-157	2.33e+07	1.29 y	44:57	1.15	97.9		2.50				97.9
PCB-169	1.37e+07	1.25 y	46:50	1.06	62.3		2.50	-	-	*	
13C-PCB-169	2.08e+07	1.29 y	46:50	1.08	93.0		2.50				93.0
PCB-188	1.27e+07	1.04 y	39:44	1.17	58.2		2.50	-	-	*	
13C-PCB-188	1.87e+07	1.08 y	39:44	0.93	97.6		2.50				97.6
PCB-189	1.06e+07	1.05 y	48:29	1.13	58.4		2.50	-	-	*	
13C-PCB-189	1.61e+07	1.08 y	48:29	0.81	95.5		2.50				95.5
PCB-202	7.55e+06	0.90 y	44:52	1.00	62.8		2.50	-	-	*	
13C-PCB-202	1.21e+07	0.90 y	44:50	0.60	96.9		2.50				96.9
13C-PCB-178	1.38e+07	1.10 y	42:22	0.67	100		2.50				100
13C-PCB-138	2.06e+07	1.28 y	41:36	-	47.8		2.50				

FAL ID: 04584-001-0001-OPR Filename: 27JUL18Z Sam:3 Acquired: 27-JUL-18 10:49:29 ICal: DAILY209FAL4-7-27-18 2 of 2
Client ID: OPR ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

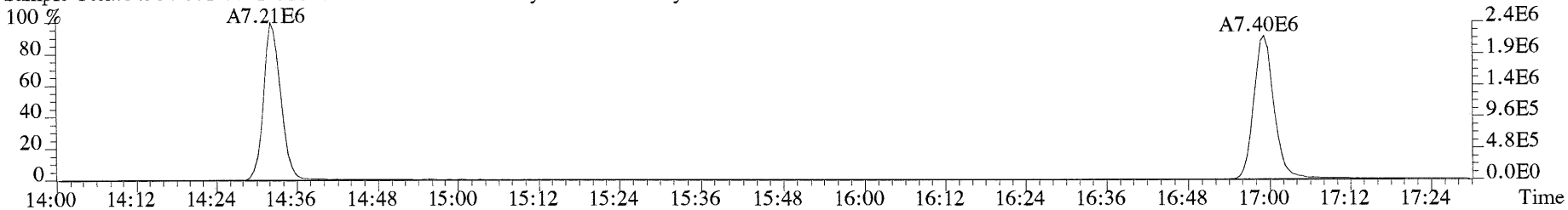
PCB-205	1.76e+07	0.92 y	50:09	1.12	58.2	2.50	-	-	*	
13C-PCB-205	2.71e+07	0.91 y	50:07	1.29	93.3	2.50				93.3
PCB-208	1.36e+07	1.36 y	49:11	1.01	57.4	2.50	-	-	*	
13C-PCB-208	2.35e+07	0.80 y	49:10	1.11	94.6	2.50				94.6
PCB-206	1.10e+07	1.36 y	51:19	1.02	59.3	2.50	-	-	*	
13C-PCB-206	1.82e+07	0.80 y	51:18	0.89	91.3	2.50				91.3
PCB-209	1.34e+07	1.18 y	52:30	1.11	58.5	2.50	-	-	*	
13C-PCB-209	2.07e+07	1.21 y	52:30	0.97	94.8	2.50				94.8
13C-PCB-194	2.24e+07	0.92 y	49:52	-	50.7	2.50				

Analyst: _____ Date: 7/27/18

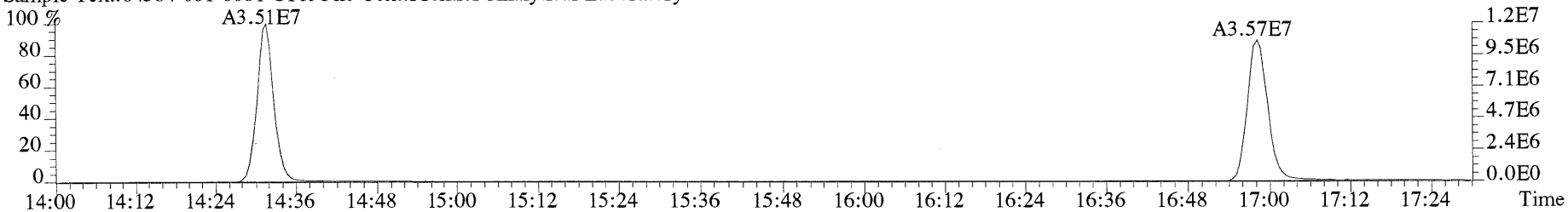
File:27JUL18Z #1-783 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



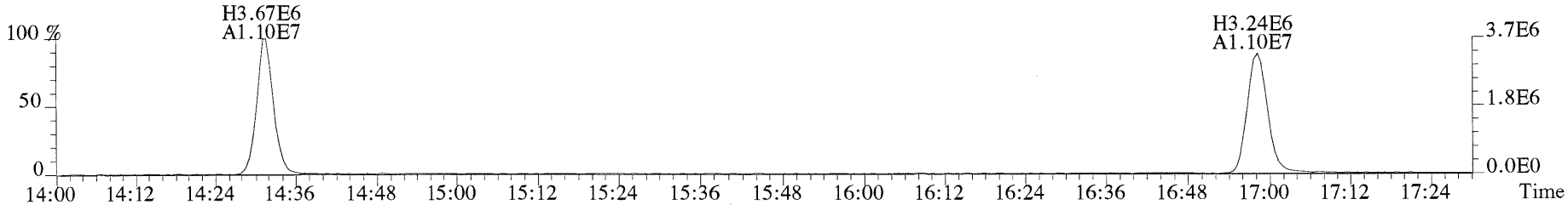
File:27JUL18Z #1-783 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



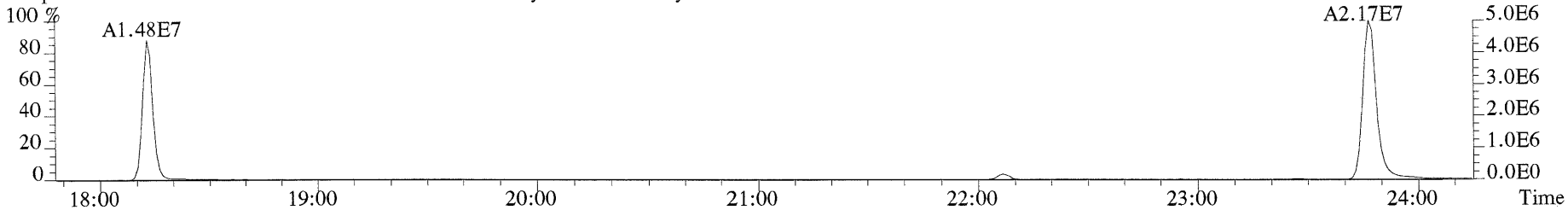
File:27JUL18Z #1-783 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



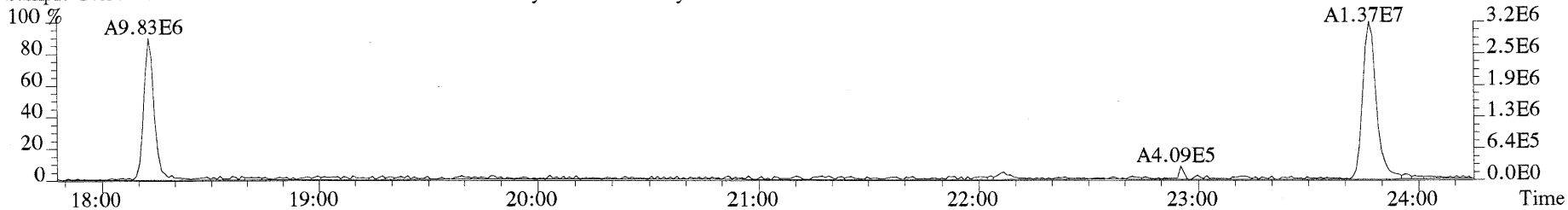
File:27JUL18Z #1-783 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



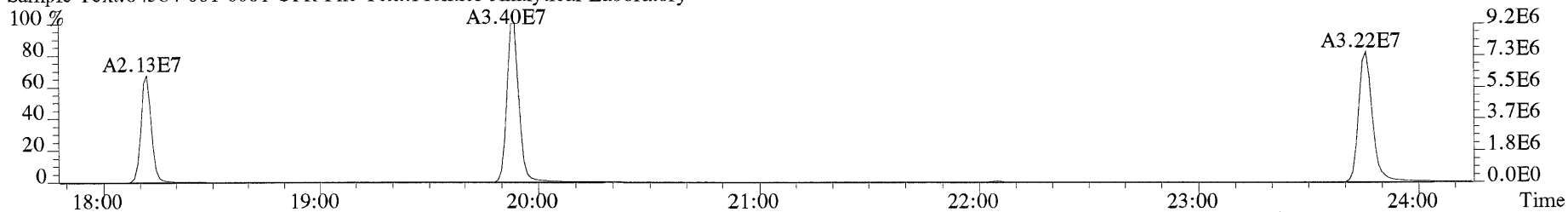
File:27JUL18Z #1-521 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-521 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-521 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



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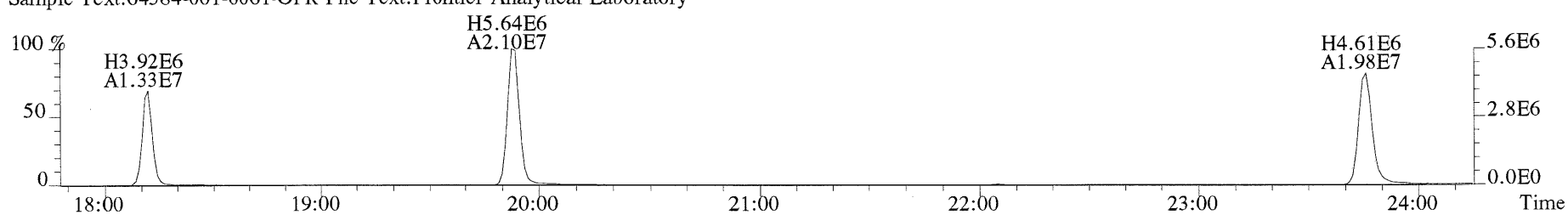
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



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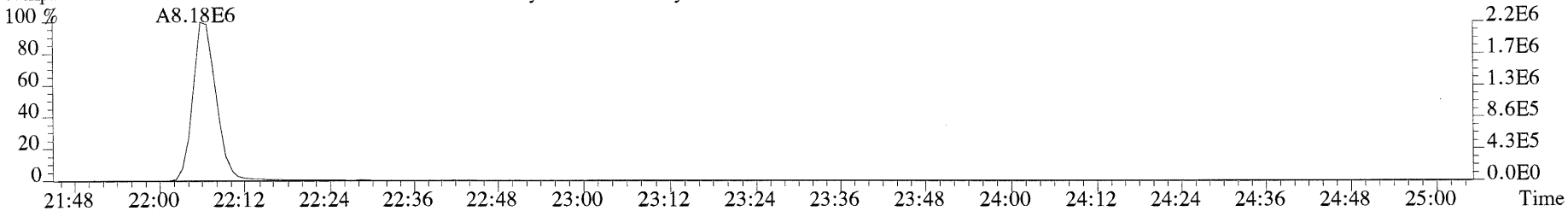
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



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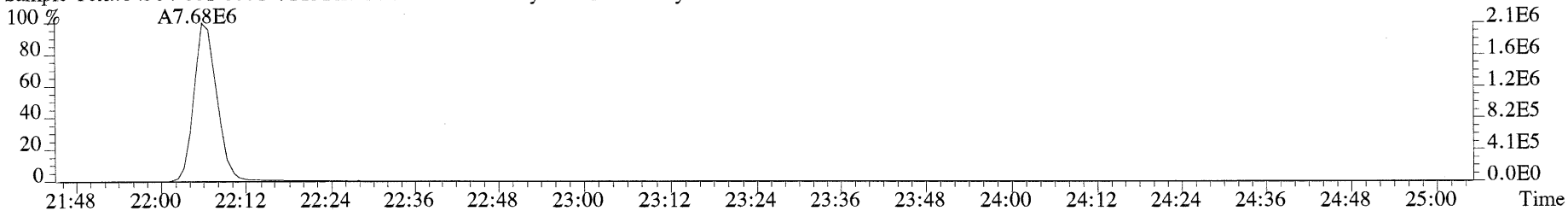
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



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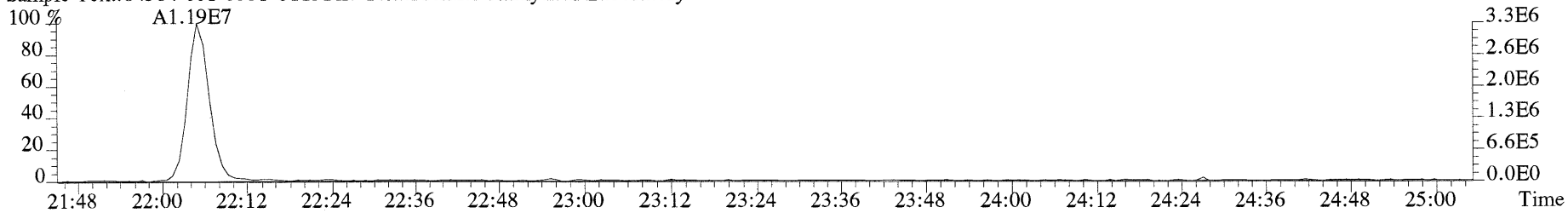
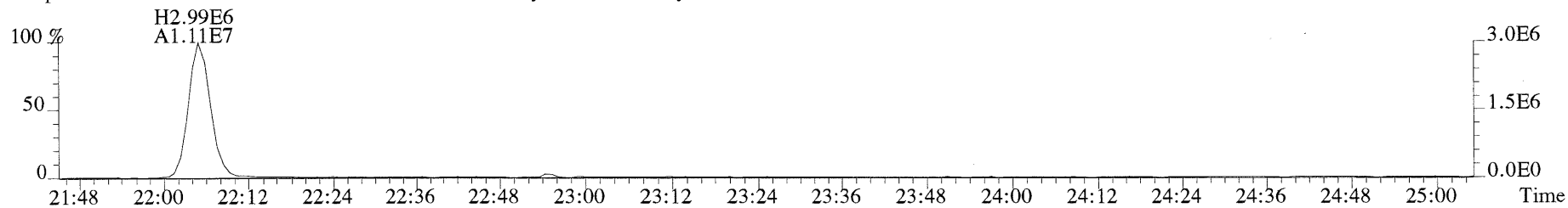
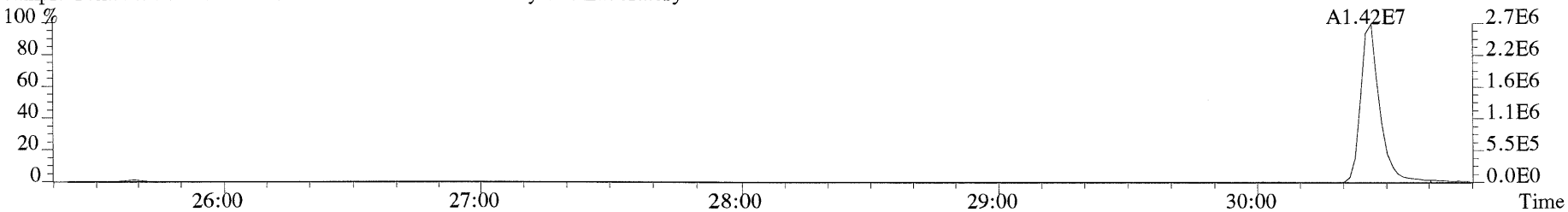
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



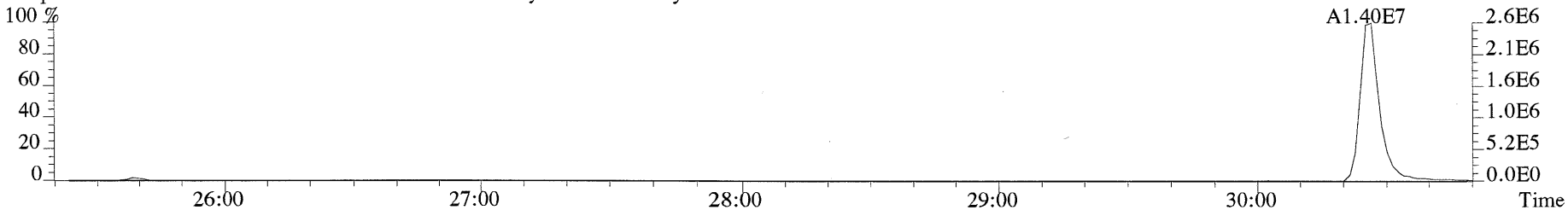
File:27JUL18Z #1-521 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



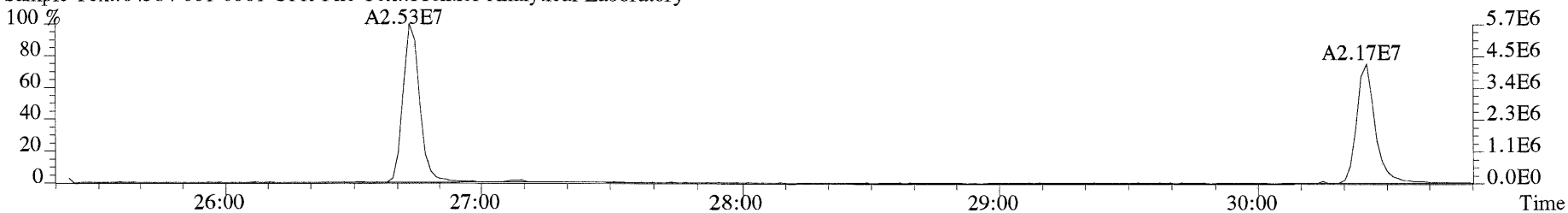
File:27JUL18Z #1-401 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



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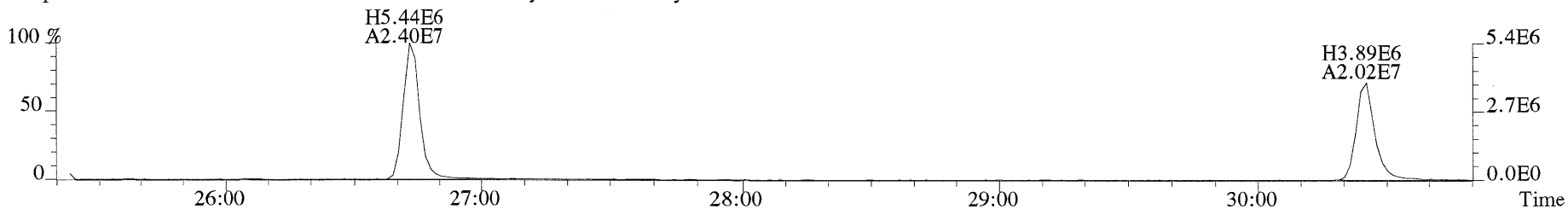
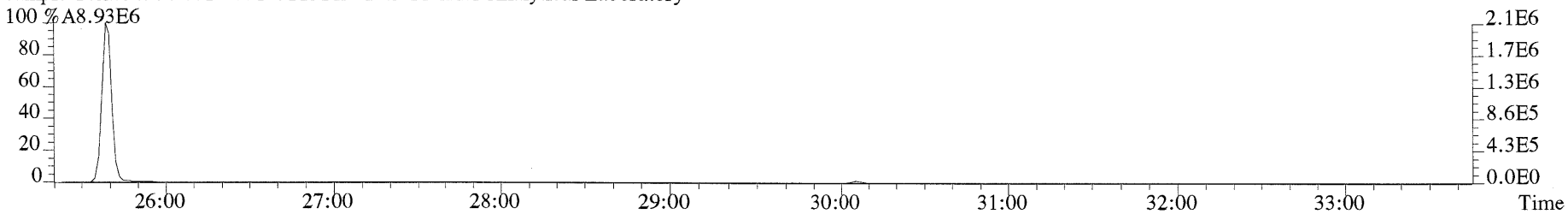
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



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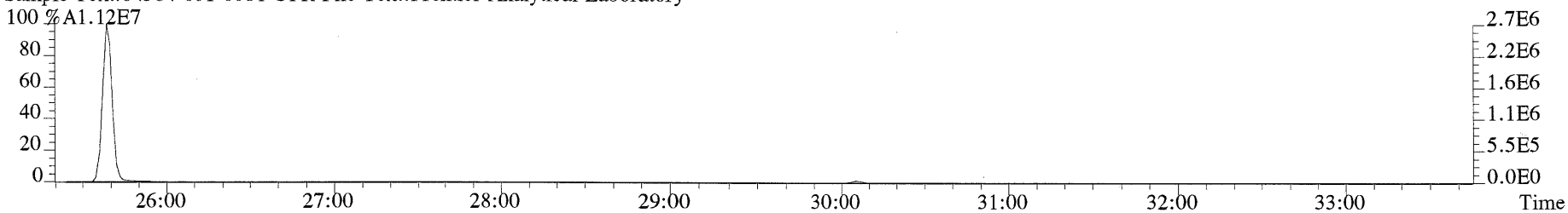
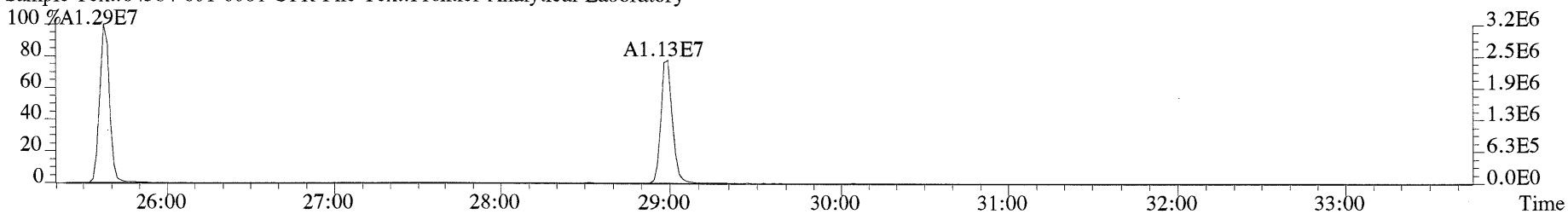
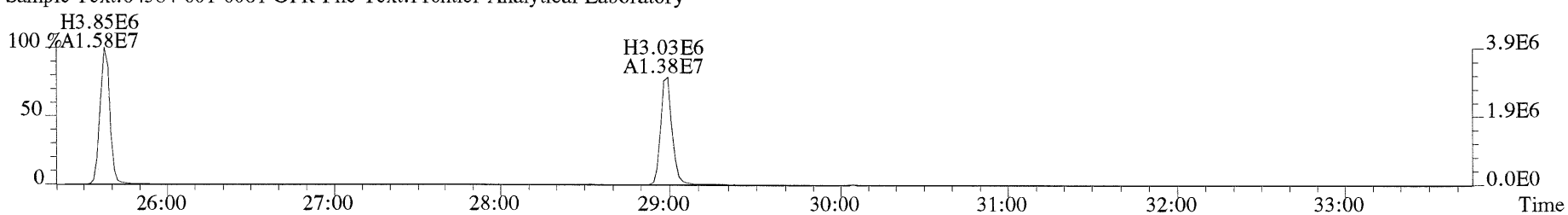
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



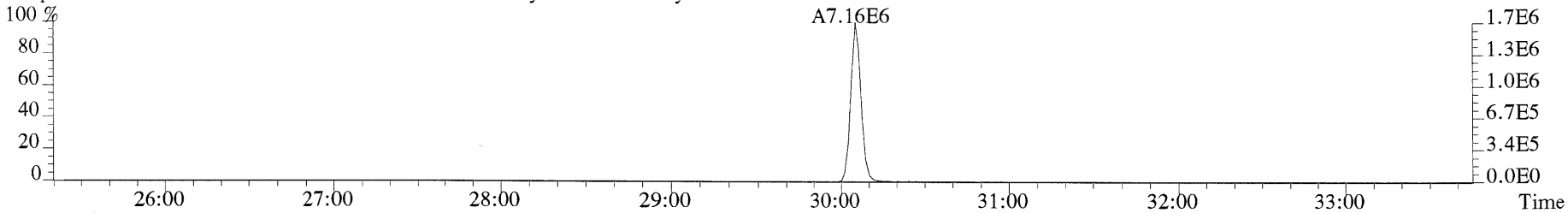
File:27JUL18Z #1-401 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



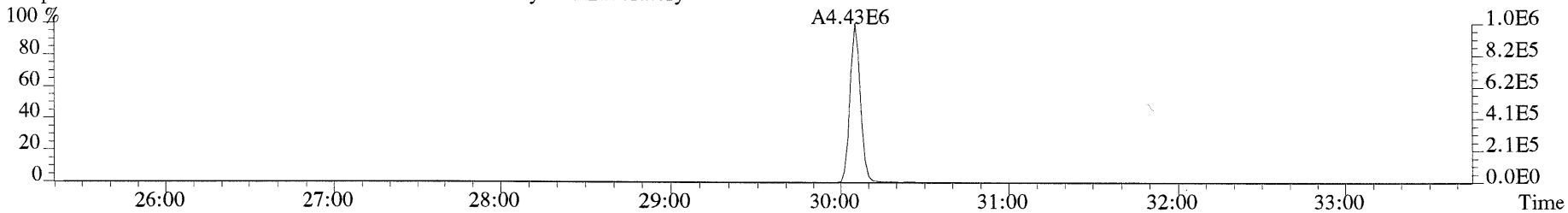
File:27JUL18Z #1-401 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



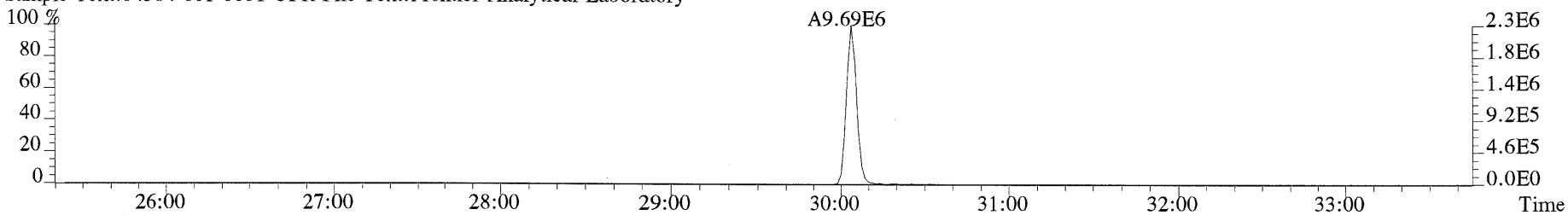
File:27JUL18Z #1-401 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



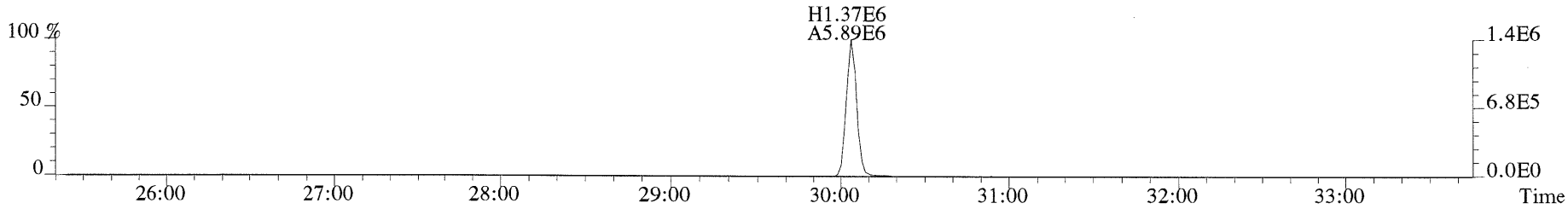
File:27JUL18Z #1-401 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



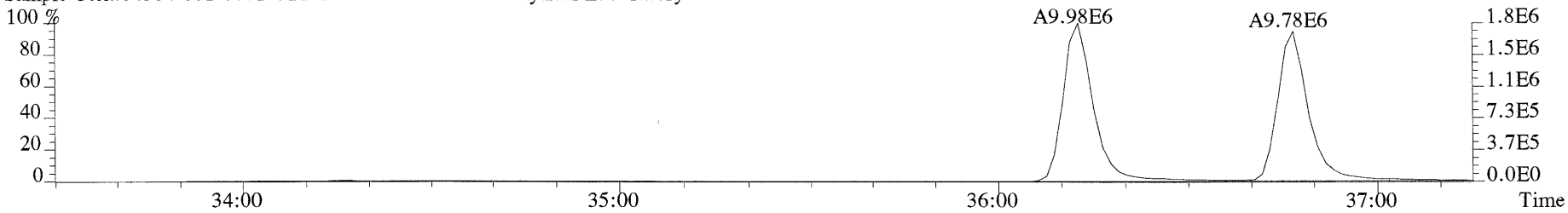
File:27JUL18Z #1-401 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



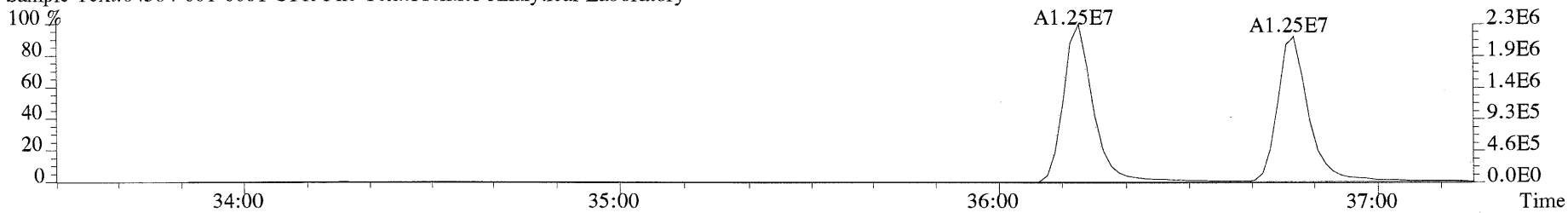
File:27JUL18Z #1-401 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



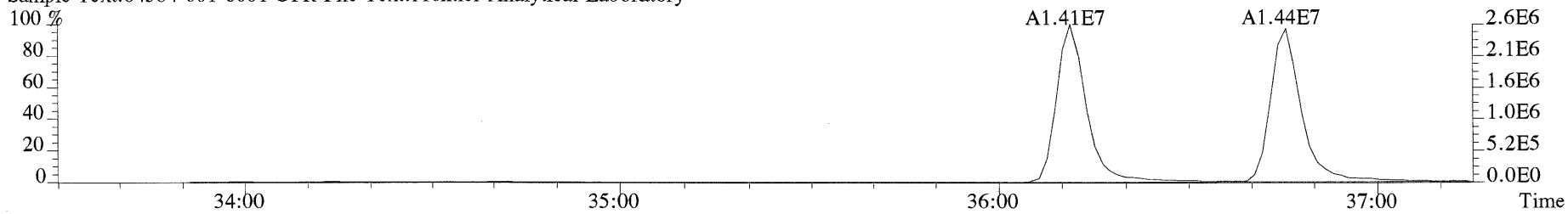
File:27JUL18Z #1-183 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



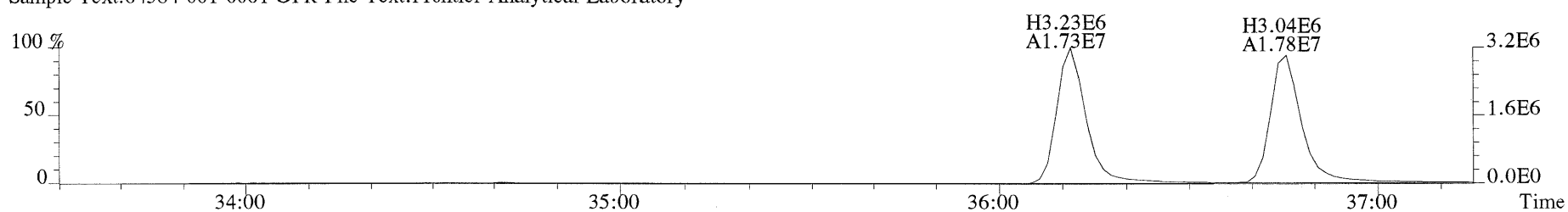
File:27JUL18Z #1-183 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



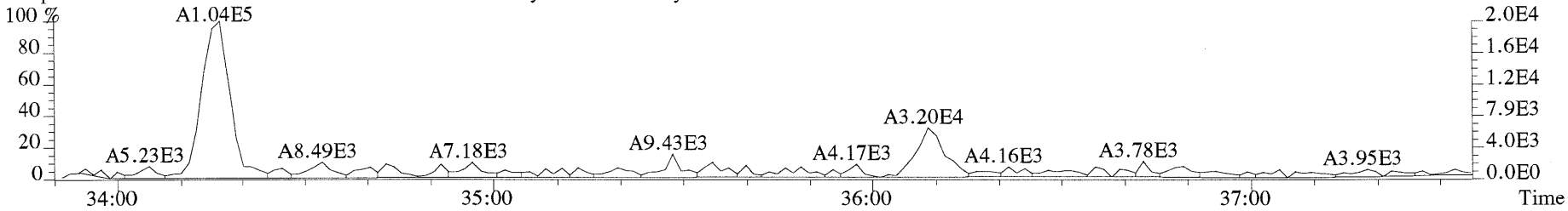
File:27JUL18Z #1-183 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



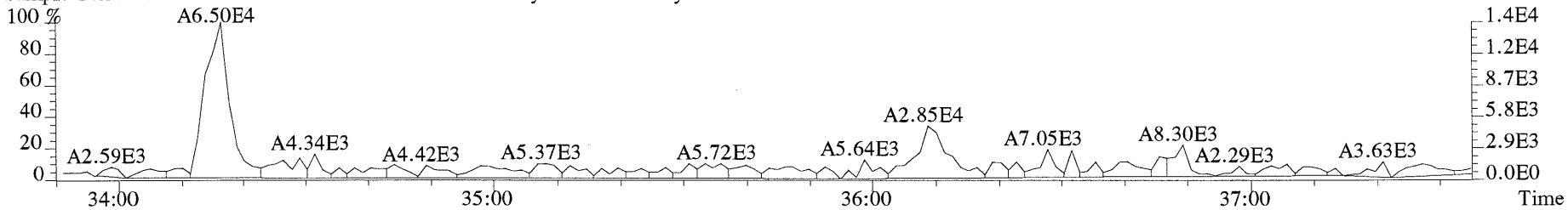
File:27JUL18Z #1-183 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



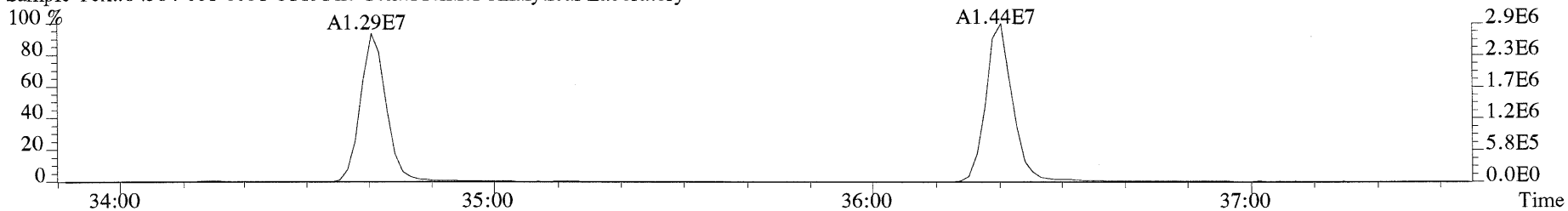
File:27JUL18Z #1-183 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



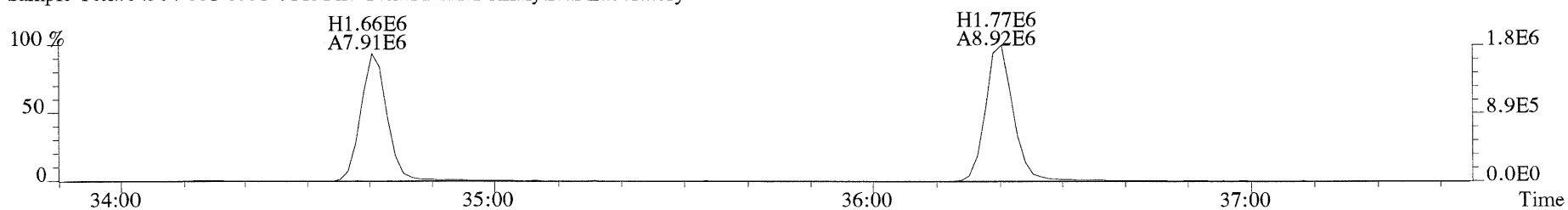
File:27JUL18Z #1-183 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



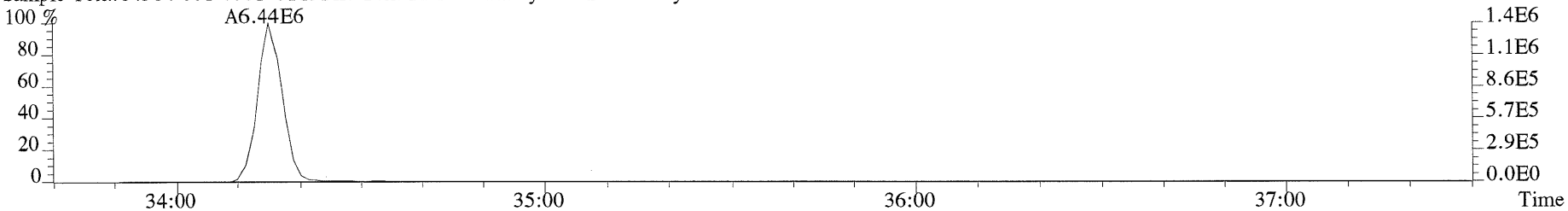
File:27JUL18Z #1-183 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



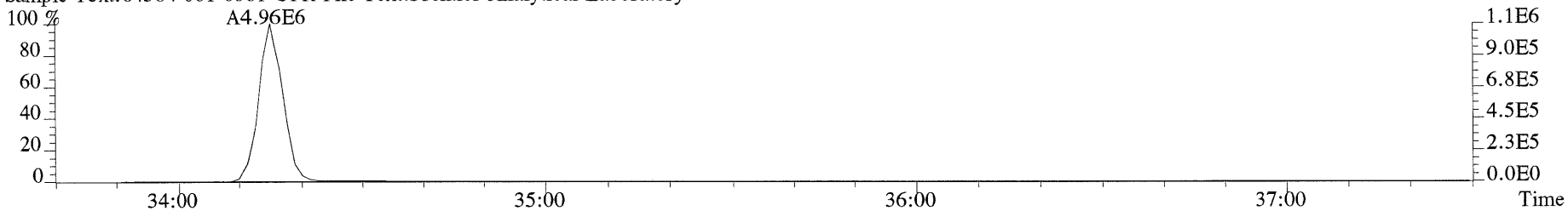
File:27JUL18Z #1-183 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



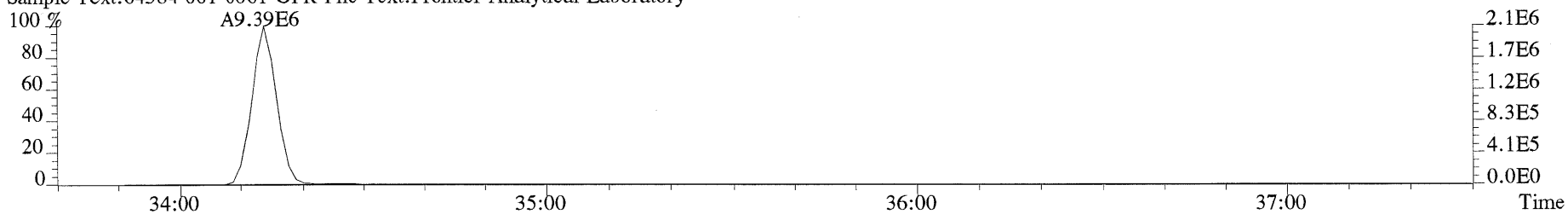
File:27JUL18Z #1-183 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



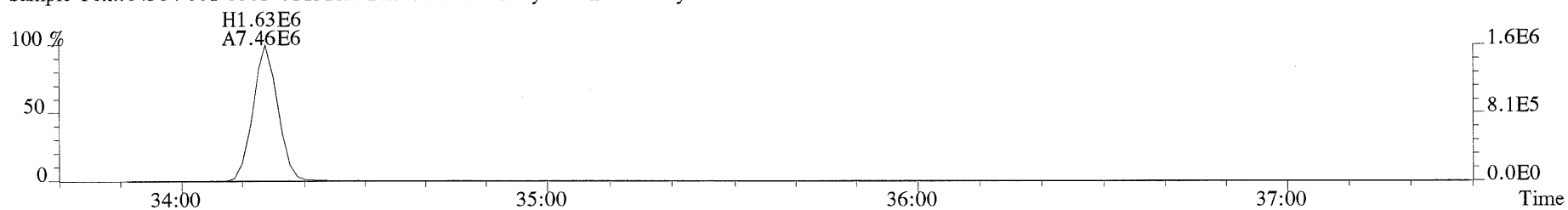
File:27JUL18Z #1-183 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



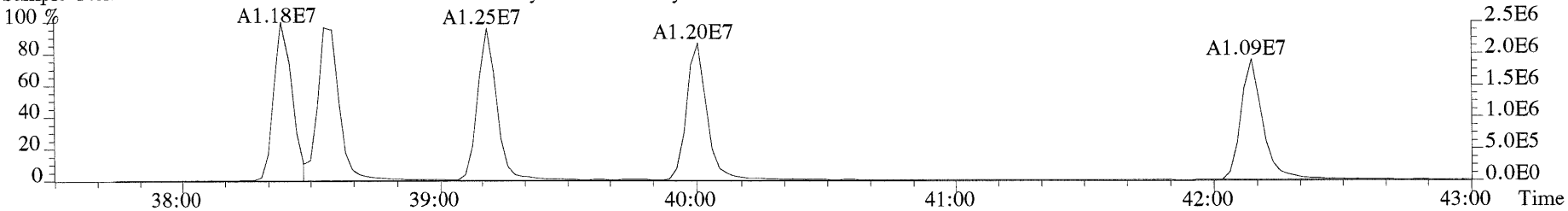
File:27JUL18Z #1-183 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



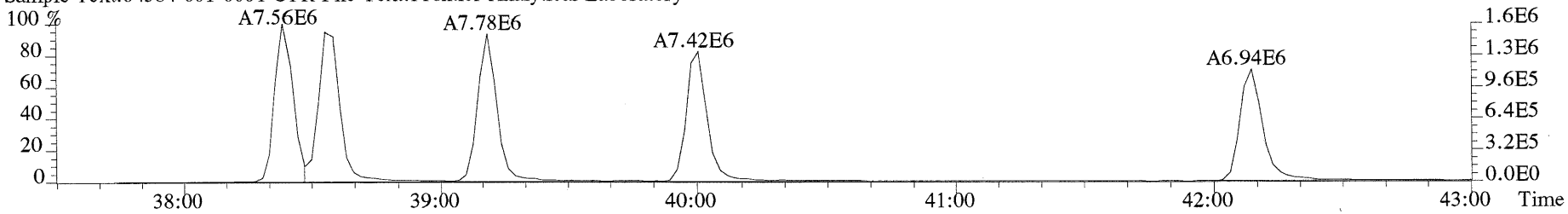
File:27JUL18Z #1-183 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



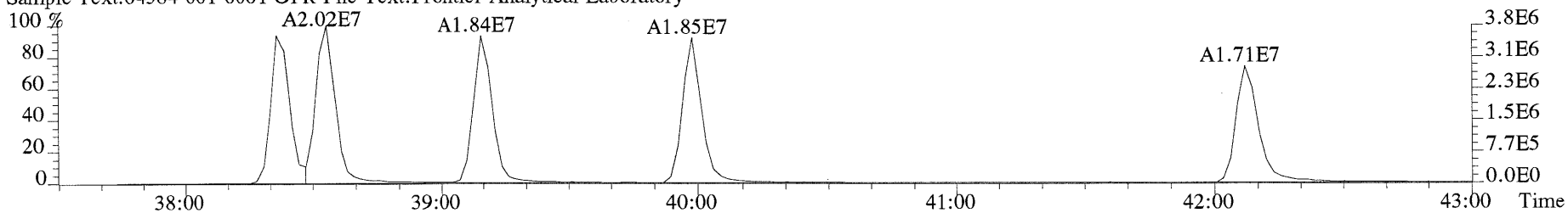
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



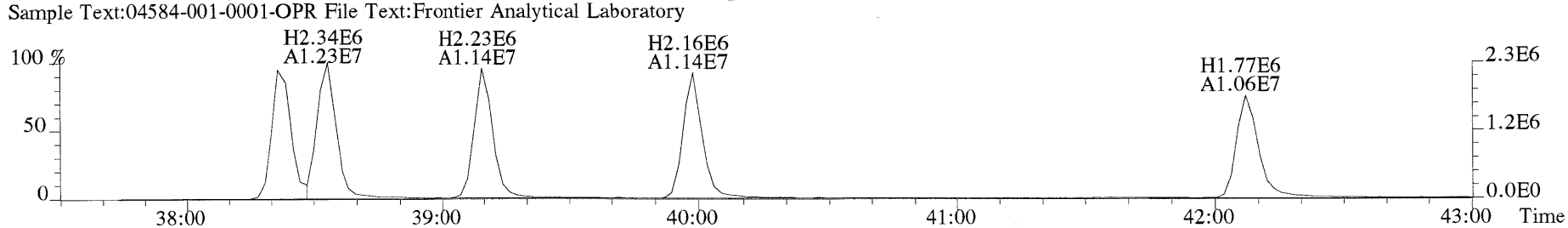
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



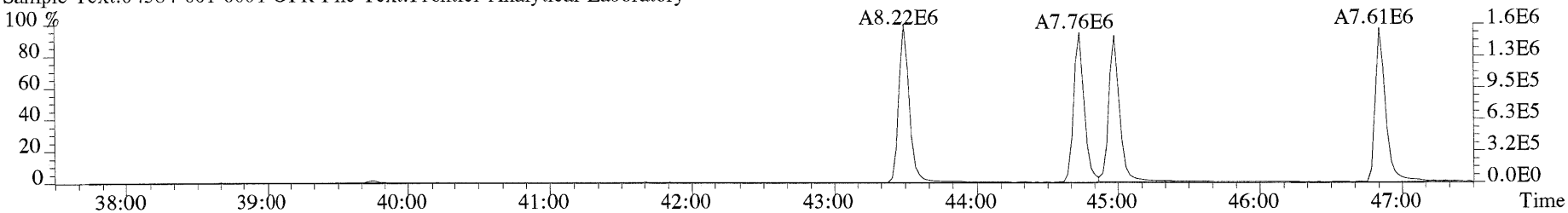
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



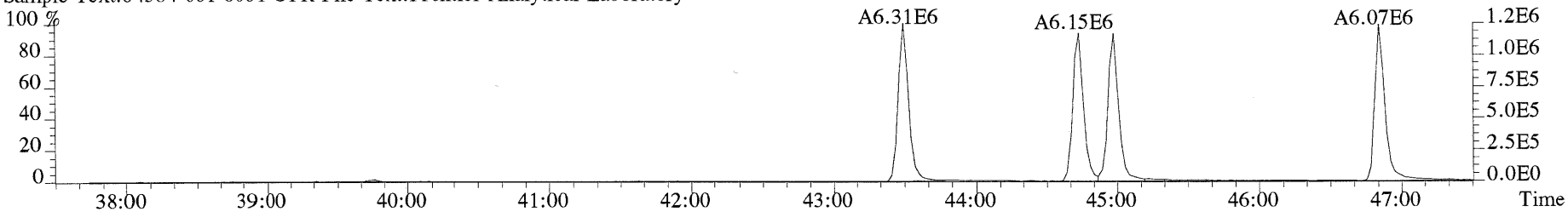
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



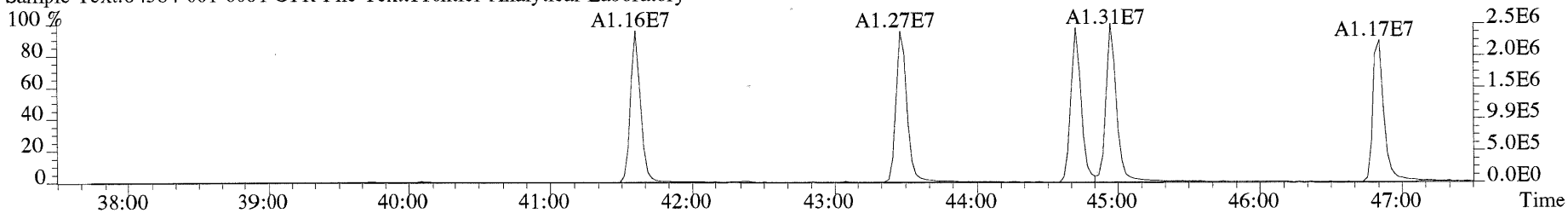
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



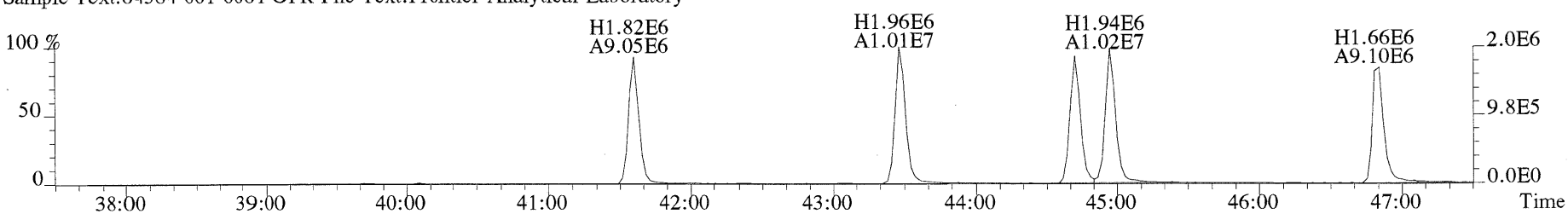
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



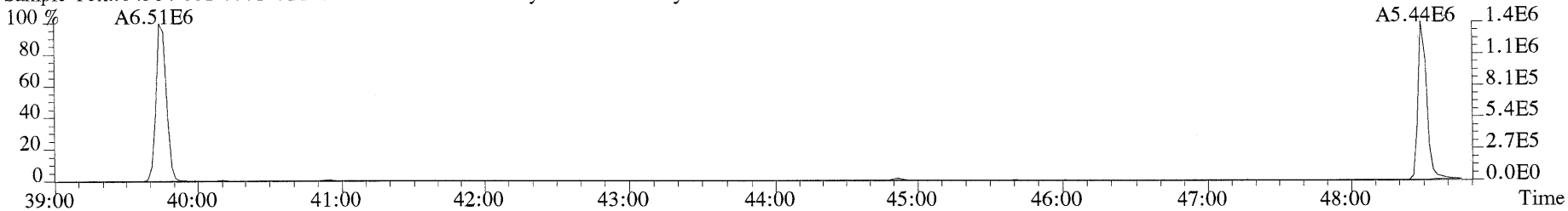
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



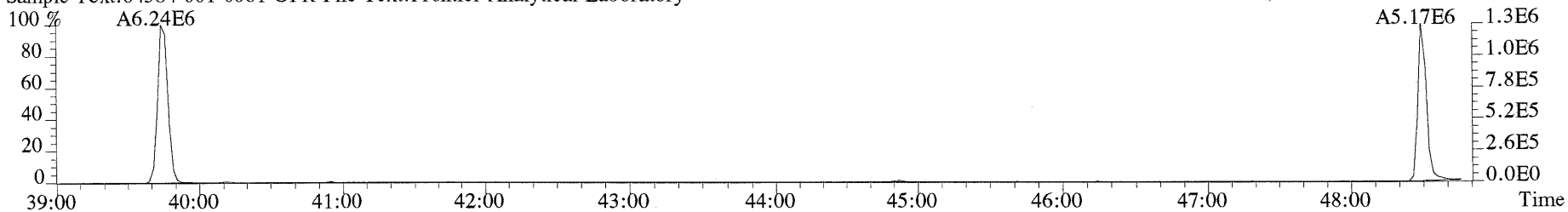
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



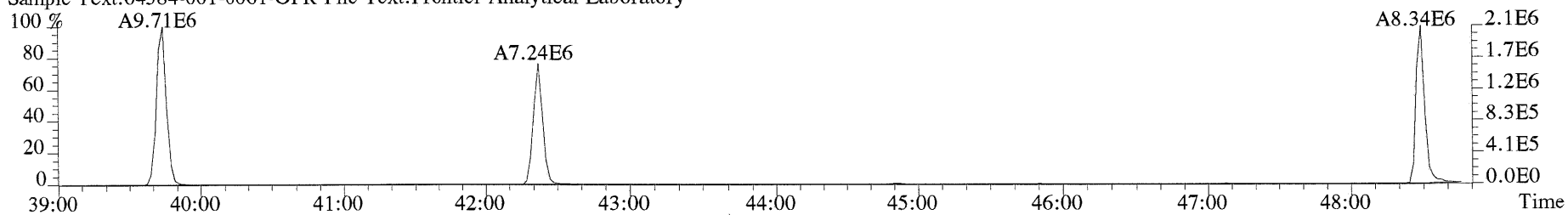
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



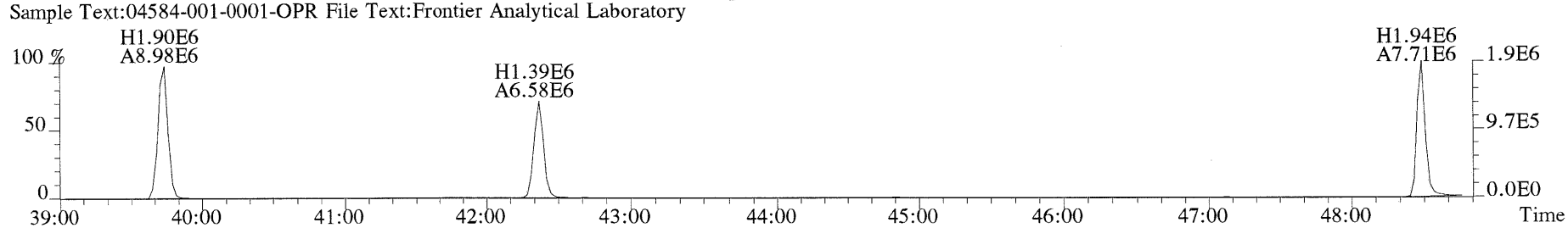
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



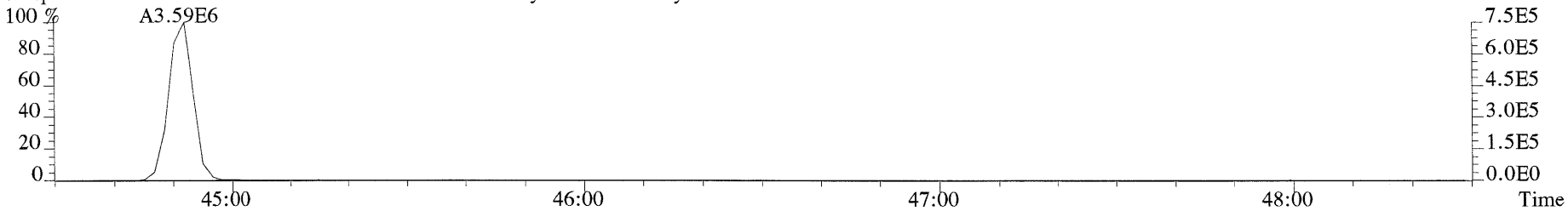
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



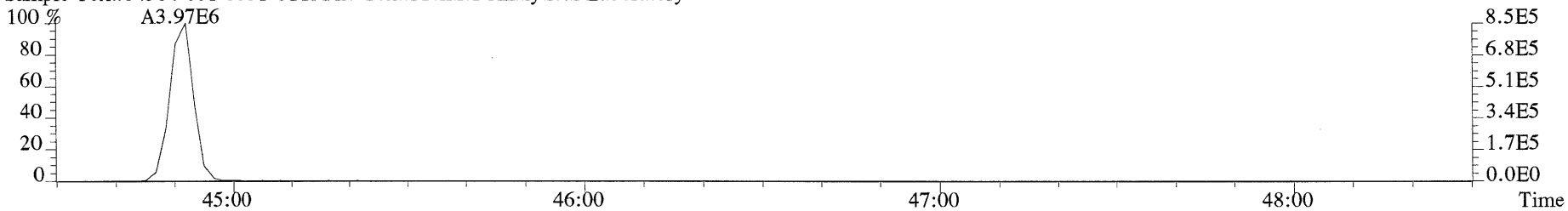
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



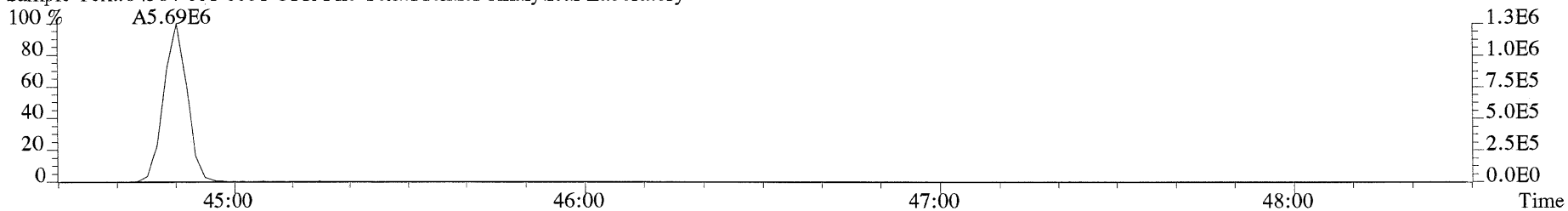
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



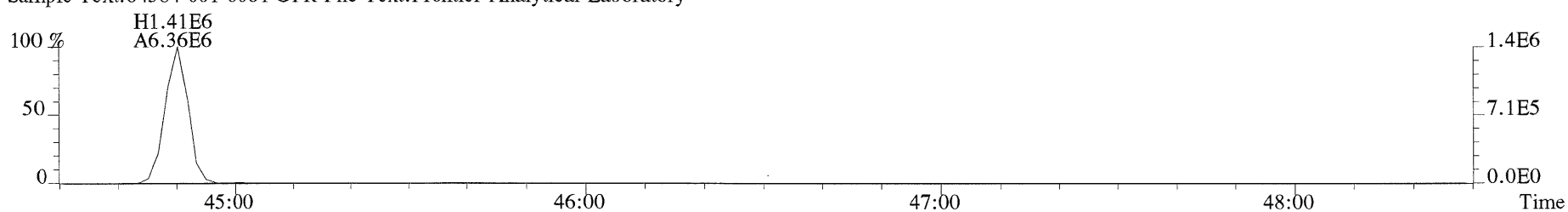
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



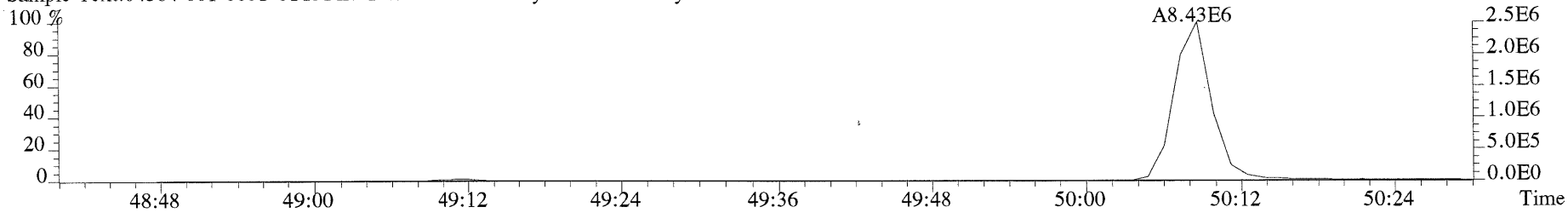
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



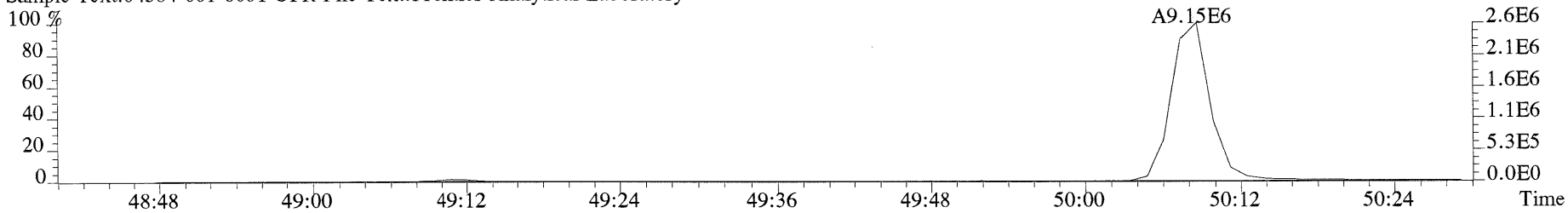
File:27JUL18Z #1-403 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



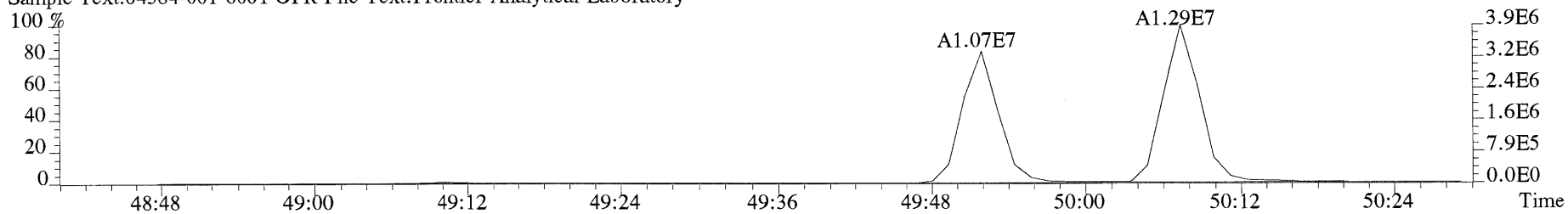
File:27JUL18Z #1-315 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



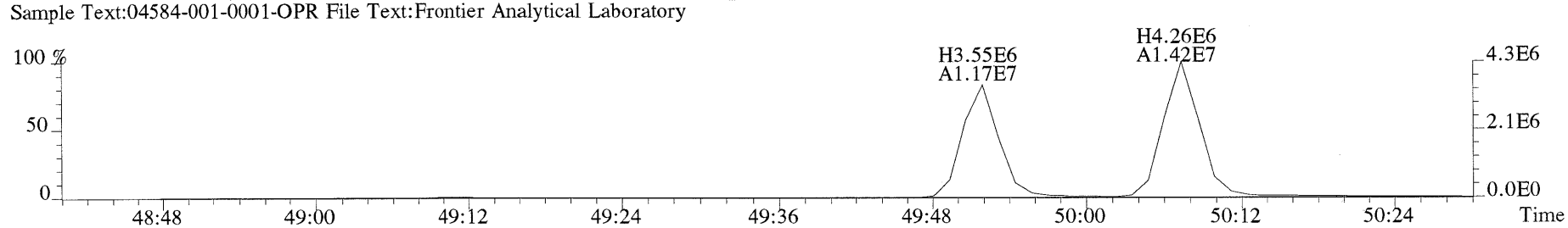
File:27JUL18Z #1-315 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



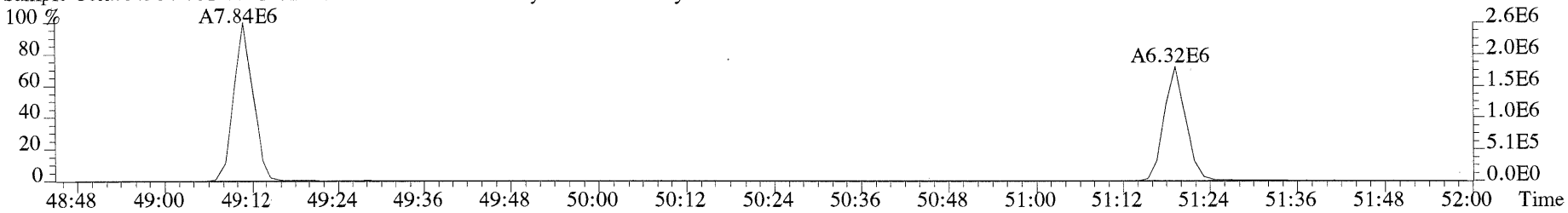
File:27JUL18Z #1-315 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



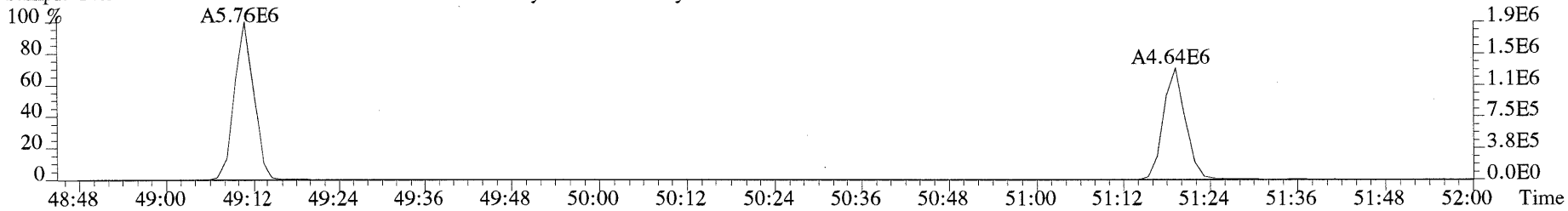
File:27JUL18Z #1-315 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



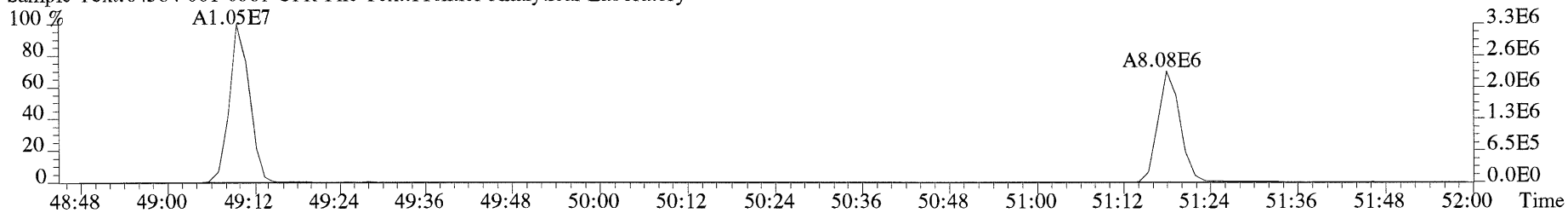
File:27JUL18Z #1-315 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



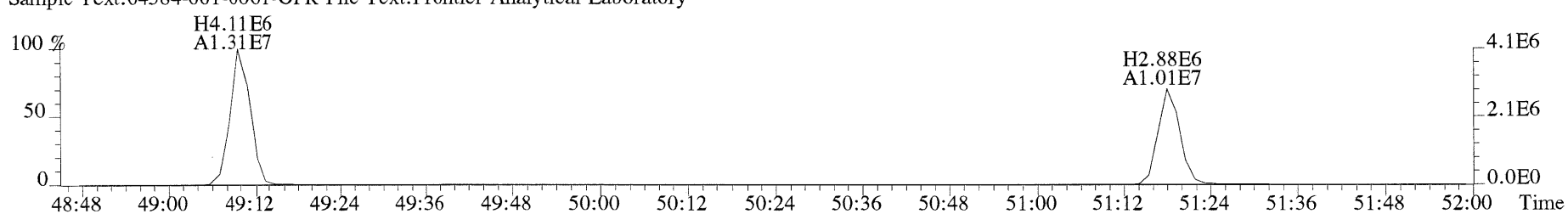
File:27JUL18Z #1-315 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



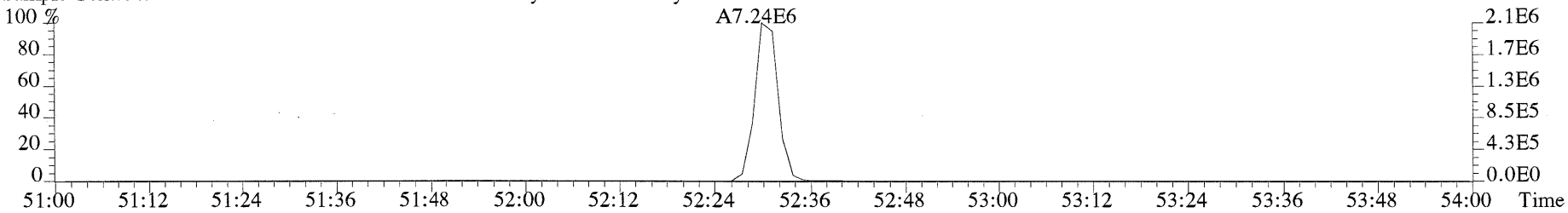
File:27JUL18Z #1-315 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



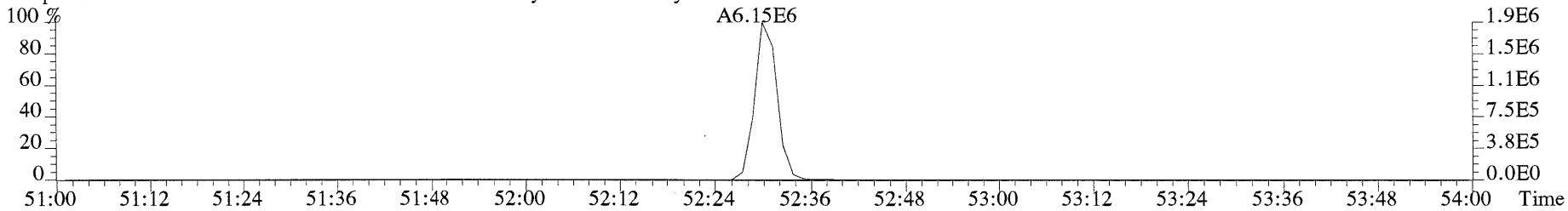
File:27JUL18Z #1-315 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



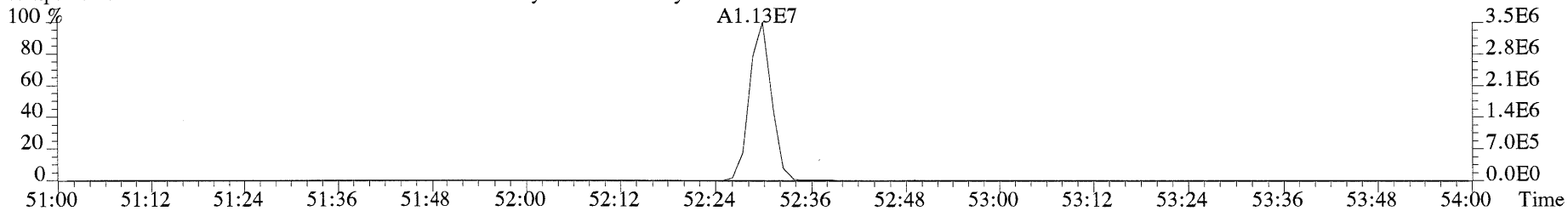
File:27JUL18Z #1-315 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



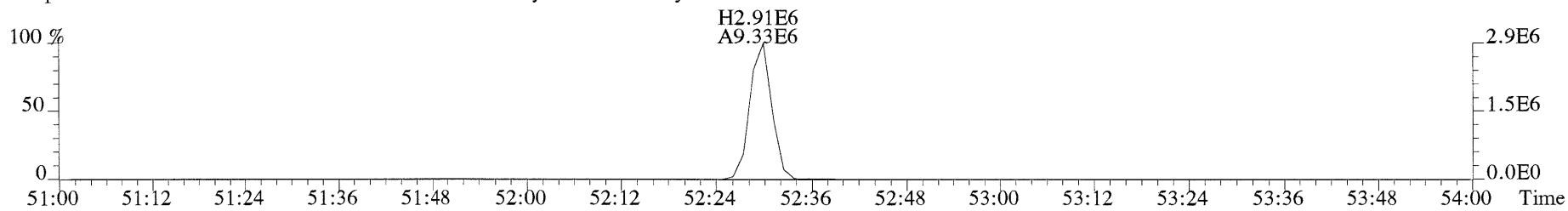
File:27JUL18Z #1-315 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-315 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-315 Acq:27-JUL-2018 10:49:29 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04584-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 11703-001-0001-SA Filename: 27JUL18Z Sam:5 Acquired: 27-JUL-18 12:46:11 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SC-ENR+AC-CA-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	*	n	NotFnd	1.17	*		1340	1100	2.97			
13C-PCB-1	5.08e+07	3.16	y	14:31	0.92	8660					86.6	1.33e+07	4.25e+06
PCB-2	*	*	n	NotFnd	1.05	*		1340	1100	3.56			
PCB-3	*	*	n	NotFnd	1.16	*		1340	1100	3.42			
13C-PCB-3	5.23e+07	3.16	y	16:58	0.93	8820					88.2	1.16e+07	3.69e+06
PCB-4	*	*	n	NotFnd	1.42	*		789	2400	4.73			
PCB-10	*	*	n	NotFnd	1.21	*		789	2400	5.00			
13C-PCB-4	3.98e+07	1.59	y	18:11	0.68	9260					92.6	7.33e+06	4.55e+06
PCB-9	*	*	n	NotFnd	1.40	*		789	2400	4.32			
PCB-7	*	*	n	NotFnd	1.40	*		789	2400	4.34			
PCB-6	*	*	n	NotFnd	1.33	*		789	2400	4.56			
PCB-8	1.36e+05	1.50	y	20:54	1.35	19.9	J	-	-	*			
PCB-5	*	*	n	NotFnd	1.35	*		789	2400	4.49			
PCB-14	7.22e+05	1.47	y	21:58	1.31	109		-	-	*			
PCB-11	1.24e+05	1.44	y	23:06	1.24	19.7	J	-	-	*			
PCB-13	*	*	n	NotFnd	1.32	*		789	2400	4.60			
PCB-12	*	*	n	NotFnd	1.30	*		789	2400	4.67			
PCB-15	8.44e+04	1.49	y	23:46	1.26	11.0	J	-	-	*			
13C-PCB-15	6.11e+07	1.63	y	23:45	1.00	9590					95.9	8.75e+06	5.37e+06
PCB-19	3.12e+04	1.18	y	22:06	1.19	10.0	J	-	-	*			
PCB-30	*	*	n	NotFnd	1.63	*		1240	456	3.75			
PCB-18	2.04e+05	1.19	y	23:39	1.14	68.6		-	-	*			
PCB-17	1.11e+05	1.14	y	23:49	1.23	34.6		-	-	*			
PCB-27	3.03e+04	1.18	y	24:21	1.49	7.79	J	-	-	*			
PCB-24	*	*	n	NotFnd	1.69	*		1240	456	3.61			
PCB-16	6.99e+04	1.11	y	24:47	1.36	19.7	J	-	-	*			
PCB-32	1.03e+05	1.19	y	24:52	1.41	28.0		-	-	*			
13C-PCB-19	2.61e+07	1.08	y	22:04	0.44	9240					92.4	3.57e+06	3.39e+06
13C-PCB-9	6.36e+07	1.63	y	19:52	-	55.7							
PCB-34	*	*	n	NotFnd	1.03	*		920	784	4.76			
PCB-23	*	*	n	NotFnd	1.10	*		920	784	4.45			
PCB-29	*	*	n	NotFnd	1.14	*		920	784	4.27			
PCB-26	1.07e+05	1.16	y	26:08	1.04	20.5		-	-	*			
PCB-25	6.42e+04	0.99	y	26:18	1.36	9.44	J	-	-	*			
PCB-31	4.47e+05	1.04	y	26:37	1.12	80.1		-	-	*			
PCB-28	5.39e+05	1.03	y	26:43	1.44	75.0		-	-	*			
PCB-20	2.43e+05	1.03	y	27:20	1.24	39.3		-	-	*		Co-elute PCB 21/33	
PCB-21	2.43e+05	1.03	y	27:20	1.24	39.3		-	-	*		Co-elute PCB 20/33	
PCB-33	2.43e+05	1.03	y	27:20	1.24	39.3		-	-	*		Co-elute PCB 20/21	
PCB-22	1.49e+05	1.08	y	27:43	1.24	24.0		-	-	*			
PCB-36	1.64e+06	1.09	y	28:21	1.13	291		-	-	*			
PCB-39	*	*	n	NotFnd	1.16	*		920	784	4.22			
PCB-38	*	*	n	NotFnd	1.12	*		920	784	4.37			
PCB-35	*	*	n	NotFnd	1.08	*		920	784	4.54			
PCB-37	1.07e+05	1.17	y	30:26	1.22	17.5	J	-	-	*			
13C-PCB-37	5.00e+07	1.05	y	30:24	1.72	9790					97.9	4.48e+06	4.23e+06

PCB-54	*	*	n	NotFnd	1.21	*		616	904	3.92				
PCB-50	*	*	n	NotFnd	0.91	*		616	904	5.21				
PCB-53	1.20e+05	0.88	y	27:21	0.93	39.2		-	-	*				
PCB-51	4.57e+04	0.66	y	27:41	0.95	14.7	J	-	-	*				
PCB-45	8.13e+04	0.75	y	28:05	0.79	31.3		-	-	*				
PCB-46	3.14e+04	0.72	y	28:32	0.78	12.3	J	-	-	*				
PCB-52	8.01e+05	0.82	y	29:00	1.13	215		-	-	*		Co-elute PCB 69		
PCB-69	8.01e+05	0.82	y	29:00	1.13	215		-	-	*		Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.11	*		616	904	4.25				
PCB-43	4.96e+05	0.88	y	29:16	0.88	172		-	-	*		Co-elute PCB 49		
PCB-49	4.96e+05	0.88	y	29:16	0.88	172		-	-	*		Co-elute PCB 43		
PCB-47	2.06e+05	0.73	y	29:29	1.04	60.5		-	-	*				
PCB-48	1.20e+05	0.80	y	29:35	1.14	31.8		-	-	*		Co-elute PCB 75		
PCB-75	1.20e+05	0.80	y	29:35	1.14	31.8		-	-	*		Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.15	*		616	904	4.11				
PCB-62	*	*	n	NotFnd	1.10	*		616	904	4.31				
PCB-44	3.72e+05	0.75	y	30:13	0.80	140		-	-	*				
PCB-42	1.86e+05	0.77	y	30:26	1.07	53.0		-	-	*		Co-elute PCB 59		
PCB-59	1.86e+05	0.77	y	30:26	1.07	53.0		-	-	*		Co-elute PCB 42		
PCB-72	4.70e+05	0.81	y	31:00	1.14	125		-	-	*		Co-elute PCB 41/71/64		
PCB-41	4.70e+05	0.81	y	31:00	1.14	125		-	-	*		Co-elute PCB 72/71/64		
PCB-71	4.70e+05	0.81	y	31:00	1.14	125		-	-	*		Co-elute PCB 72/41/64		
PCB-64	4.70e+05	0.81	y	31:00	1.14	125		-	-	*		Co-elute PCB 72/41/71		
PCB-68	*	*	n	NotFnd	1.22	*		616	904	3.87				
PCB-40	6.54e+04	0.66	y	31:26	0.70	28.4		-	-	*				
PCB-57	*	*	n	NotFnd	1.10	*		616	904	4.29				
PCB-67	2.76e+04	0.82	y	32:06	1.18	7.07	J	-	-	*				
PCB-58	*	*	n	NotFnd	1.07	*		616	904	4.40				
PCB-63	2.59e+04	0.73	y	32:22	1.12	7.00	J	-	-	*				
PCB-74	2.40e+05	0.85	y	32:37	1.25	58.2		-	-	*				
PCB-61	4.95e+05	0.83	y	32:49	1.19	127		-	-	*		Co-elute PCB 70		
PCB-70	4.95e+05	0.83	y	32:49	1.19	127		-	-	*		Co-elute PCB 61		
PCB-76	5.12e+05	0.77	y	33:01	1.18	132		-	-	*		Co-elute PCB 66		
PCB-66	5.12e+05	0.77	y	33:01	1.18	132		-	-	*		Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.28	*		616	904	3.68				
PCB-55	8.93e+04	0.66	y	33:32	1.17	23.2		-	-	*				
13C-PCB-54	3.30e+07	0.82	y	25:36	1.14	9720					97.2	3.63e+06	4.41e+06	
PCB-104	2.30e+06	1.55	y	30:04	1.26	1010		-	-	*				
PCB-96	*	*	n	NotFnd	1.11	*		360	364	3.86				
PCB-103	*	*	n	NotFnd	0.97	*		360	364	4.43				
PCB-100	*	*	n	NotFnd	0.97	*		360	364	4.43				
PCB-94	*	*	n	NotFnd	0.82	*		360	364	5.22				
PCB-98	*	*	n	NotFnd	0.44	*		360	364	9.67		Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.44	*		360	364	9.67		Co-elute PCB 98		
PCB-95	5.47e+05	1.65	y	33:05	0.89	340		-	-	*				
PCB-93	*	*	n	NotFnd	0.82	*		360	364	5.27				
PCB-88	*	*	n	NotFnd	0.91	*		360	364	4.74		Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	0.91	*		360	364	4.74		Co-elute PCB 88		
PCB-121	3.88e+06	1.61	y	33:32	1.08	1980		-	-	*				
13C-PCB-104	1.81e+07	1.62	y	30:03	0.64	9590					95.9	2.62e+06	1.60e+06	
13C-PCB-28	5.60e+07	1.09	y	26:42	1.96	9580					95.8	6.65e+06	6.15e+06	
13C-PCB-52	2.98e+07	0.80	y	28:58	-	53.4								

PCB-56	3.17e+05	0.79	y	34:00	1.22	65.2		-	-	*			Co-elute PCB 60
PCB-60	3.17e+05	0.79	y	34:00	1.22	65.2		-	-	*			Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.22	*		856	1010	5.44			
PCB-78	5.02e+06	0.80	y	35:42	1.17	1080		-	-	*			
PCB-81	5.29e+04	0.69	y	36:12	1.24	10.8	J	-	-	*			
13C-PCB-81	3.93e+07	0.81	y	36:11	1.62	9830					98.3	3.26e+06	3.96e+06
PCB-77	5.68e+04	0.81	y	36:47	1.18	12.0	J	-	-	*			
13C-PCB-77	4.02e+07	0.83	y	36:45	1.62	10100					101	3.10e+06	3.78e+06
PCB-155	4.62e+06	1.28	y	34:14	1.16	1990		-	-	*			
PCB-150	*	*	n	NotFnd	1.03	*		348	356	3.77			
PCB-152	*	*	n	NotFnd	0.97	*		348	356	3.99			
PCB-145	*	*	n	NotFnd	1.00	*		348	356	3.90			
PCB-136	1.30e+05	1.38	y	36:37	0.89	72.7		-	-	*			
PCB-148	1.30e+05	1.38	y	36:37	0.83	78.3		348	356	4.70			
PCB-154	3.11e+04	1.15	y	37:11	0.88	17.6	J	-	-	*			
13C-PCB-155	2.01e+07	1.28	y	34:13	0.86	9480					94.8	2.56e+06	1.97e+06
13C-PCB-111	2.70e+07	1.62	y	36:19	1.16	9380					93.8	3.15e+06	1.97e+06
13C-PCB-101	2.47e+07	1.61	y	34:40	-	56.0							
PCB-84	3.77e+05	1.65	y	34:19	0.65	151		-	-	*			Co-elute PCB 92
PCB-92	3.77e+05	1.65	y	34:19	0.65	151		-	-	*			Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.62	*		450	440	5.00			
PCB-90	8.66e+05	1.52	y	34:41	0.71	315		-	-	*			Co-elute PCB 101
PCB-101	8.66e+05	1.52	y	34:41	0.71	315		-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.75	*		450	440	4.17			
PCB-99	3.91e+05	1.65	y	35:00	0.84	120		-	-	*			
PCB-119	3.38e+04	1.56	y	35:28	0.90	9.73	J	-	-	*			
PCB-83	3.76e+04	1.36	y	35:34	0.70	13.9	J	-	-	*			Co-elute PCB 112
PCB-112	3.76e+04	1.36	y	35:34	0.70	13.9	J	-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.85	*		450	440	3.65			
PCB-97	2.14e+05	1.49	y	35:55	0.78	71.2		-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*		450	440	4.74			
PCB-125	2.92e+05	1.67	y	36:12	0.80	95.2		-	-	*			Co-elute PCB 87/117
PCB-87	2.92e+05	1.67	y	36:12	0.80	95.2		-	-	*			Co-elute PCB 125/117
PCB-117	2.92e+05	1.67	y	36:12	0.80	95.2		-	-	*			Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	0.98	*		450	440	3.19			Co-elute PCB 115
PCB-115	*	*	n	NotFnd	0.98	*		450	440	3.19			Co-elute PCB 111
PCB-85	1.24e+05	1.56	y	36:26	0.77	42.0		-	-	*			Co-elute PCB 116
PCB-116	1.24e+05	1.56	y	36:26	0.77	42.0		-	-	*			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.89	*		450	440	3.48			
PCB-110	8.61e+05	1.50	y	36:49	0.92	242		-	-	*			
PCB-82	6.91e+04	1.48	y	37:24	0.51	34.9		-	-	*			
PCB-124	2.96e+04	1.39	y	38:04	1.11	6.94	J	-	-	*			
PCB-108	6.32e+04	1.40	y	38:14	1.18	14.0	J	-	-	*			Co-elute PCB 107
PCB-107	6.32e+04	1.40	y	38:14	1.18	14.0	J	-	-	*			Co-elute PCB 108
PCB-123	1.98e+04	1.72	y	38:24	1.37	3.95	J	-	-	*			
13C-PCB-123	3.66e+07	1.61	y	38:21	1.46	9520					95.2	4.30e+06	2.67e+06
PCB-118	7.12e+05	1.57	y	38:34	1.09	162		-	-	*			Co-elute PCB 106
PCB-106	7.12e+05	1.57	y	38:34	1.09	162		-	-	*			Co-elute PCB 118
13C-PCB-118	4.02e+07	1.63	y	38:32	1.59	9630					96.3	4.39e+06	2.69e+06
PCB-114	2.42e+04	1.67	y	39:10	1.18	5.31	J	-	-	*			
13C-PCB-114	3.87e+07	1.63	y	39:09	1.51	9770					97.7	4.53e+06	2.72e+06
PCB-122	*	*	n	NotFnd	1.15	*		440	410	2.59			
PCB-105	2.55e+05	1.35	y	40:00	1.14	58.0		-	-	*			
13C-PCB-105	3.85e+07	1.64	y	39:58	1.47	9980					99.8	4.52e+06	2.76e+06

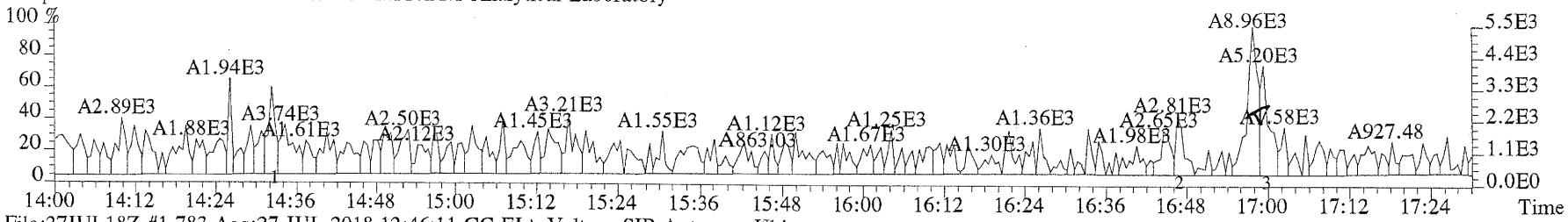
PCB-127	*	*	n	NotFnd	1.02	*		440	410	2.93				
PCB-126	*	*	n	NotFnd	1.18	*		440	410	3.03				
13C-PCB-126	3.53e+07	1.63	y	42:06	1.39	9690					96.9	3.68e+06	2.27e+06	
PCB-151	2.36e+05	1.36	y	37:48	0.89	94.6		-	-	*				
PCB-135	1.32e+05	1.41	y	37:59	0.90	52.2		-	-	*				
PCB-144	6.83e+04	1.34	y	38:08	0.85	28.7		-	-	*				
PCB-147	*	*	n	NotFnd	0.90	*		784	624	7.23				
PCB-139	8.36e+05	1.37	y	38:27	0.95	312		-	-	*		Co-elute PCB 149		
PCB-149	8.36e+05	1.37	y	38:27	0.95	312		-	-	*		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.92	*		784	624	7.04				
PCB-143	3.98e+04	1.32	y	39:05	0.87	16.2	J	-	-	*		Co-elute PCB 134		
PCB-134	3.98e+04	1.32	y	39:05	0.87	16.2	J	-	-	*		Co-elute PCB 143		
PCB-131	*	*	n	NotFnd	0.89	*		784	624	7.28		Co-elute PCB 133		
PCB-133	*	*	n	NotFnd	0.89	*		784	624	7.28		Co-elute PCB 131		
PCB-142	6.73e+06	1.27	y	39:30	0.77	3110		-	-	*				
PCB-165	1.65e+05	1.39	y	39:43	1.04	56.6		-	-	*		Co-elute PCB 146		
PCB-146	1.65e+05	1.39	y	39:43	1.04	56.6		-	-	*		Co-elute PCB 165		
PCB-161	2.52e+05	1.10	y	39:58	0.97	92.4		-	-	*		Co-elute PCB 132		
PCB-132	2.52e+05	1.10	y	39:58	0.97	92.4		-	-	*		Co-elute PCB 161		
PCB-153	9.42e+05	1.24	y	40:06	1.01	333		-	-	*				
PCB-168	*	*	n	NotFnd	1.12	*		784	624	5.79				
PCB-141	1.38e+05	1.12	y	40:49	0.88	55.9		-	-	*				
PCB-137	*	*	n	NotFnd	0.83	*		784	624	7.85				
PCB-130	4.49e+04	1.39	y	41:15	0.78	20.5		-	-	*				
PCB-138	7.72e+05	1.28	y	41:37	1.14	240		-	-	*		Co-elute PCB 163/164		
PCB-163	7.72e+05	1.28	y	41:37	1.14	240		-	-	*		Co-elute PCB 138/164		
PCB-164	7.72e+05	1.28	y	41:37	1.14	240		-	-	*		Co-elute PCB 138/163		
PCB-158	8.64e+04	1.27	y	41:50	1.14	27.0		-	-	*		Co-elute PCB 160		
PCB-160	8.64e+04	1.27	y	41:50	1.14	27.0		-	-	*		Co-elute PCB 158		
PCB-129	2.19e+04	1.17	y	42:05	0.73	10.6	J	-	-	*				
PCB-166	*	*	n	NotFnd	1.07	*		784	624	6.07				
PCB-159	*	*	n	NotFnd	1.17	*		784	624	5.58				
PCB-128	8.74e+04	1.36	y	43:04	0.97	32.2		-	-	*		Co-elute PCB 162		
PCB-162	8.74e+04	1.36	y	43:04	0.97	32.2		-	-	*		Co-elute PCB 128		
PCB-167	3.00e+04	1.30	y	43:29	1.05	9.95	J	-	-	*				
13C-PCB-167	2.88e+07	1.28	y	43:27	1.15	9530					95.3	3.05e+06	2.32e+06	
PCB-156	4.36e+04	1.15	y	44:41	1.09	14.4	J	-	-	*				
13C-PCB-156	2.78e+07	1.30	y	44:41	1.12	9430					94.3	3.15e+06	2.37e+06	
PCB-157	*	*	n	NotFnd	1.13	*		784	624	5.78				
13C-PCB-157	2.87e+07	1.30	y	44:56	1.15	9470					94.7	3.00e+06	2.40e+06	
PCB-169	*	*	n	NotFnd	1.06	*		784	624	6.20				
13C-PCB-169	2.70e+07	1.29	y	46:49	1.08	9490					94.9	3.03e+06	2.34e+06	

FAL ID: 11703-001-0001-SA Filename: 27JUL18Z Sam:5 Acquired: 27-JUL-18 12:46:11 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SC-ENR+AC-CA-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

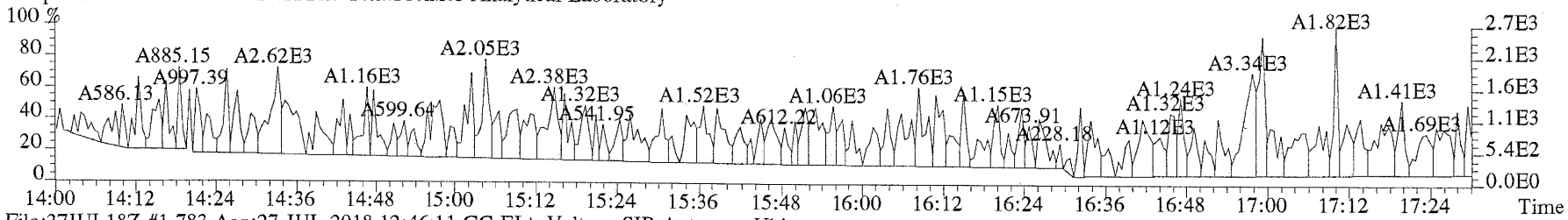
PCB-188	*	*	n	NotFnd	1.17	*		480	344	3.86			
13C-PCB-188	2.25e+07	1.09	y	39:43	0.93	9230					92.3	2.38e+06	2.17e+06
PCB-184	6.01e+06	1.05	y	40:09	1.22	2280		-	-	*			
PCB-179	1.03e+05	1.14	y	40:54	1.12	42.5		-	-	*			
PCB-176	3.47e+04	1.07	y	41:19	1.09	14.7	J	-	-	*			
PCB-186	*	*	n	NotFnd	1.14	*		480	344	3.79			
PCB-178	3.34e+04	0.99	y	42:23	0.80	19.4	J	-	-	*			
PCB-175	*	*	n	NotFnd	0.85	*		480	344	5.10			
PCB-187	1.65e+05	1.10	y	42:51	0.95	79.9		-	-	*		Co-elute PCB 182	
PCB-182	1.65e+05	1.10	y	42:51	0.95	79.9		-	-	*		Co-elute PCB 187	
PCB-183	9.42e+04	1.08	y	43:11	0.91	48.1		-	-	*			
PCB-185	*	*	n	NotFnd	0.88	*		480	344	4.90			
PCB-174	1.08e+05	1.07	y	44:07	0.81	61.7		-	-	*			
PCB-181	*	*	n	NotFnd	0.92	*		480	344	4.67			
PCB-177	6.68e+04	0.97	y	44:23	0.79	39.1		-	-	*			
PCB-171	3.25e+04	1.17	y	44:41	0.83	18.2	J	-	-	*			
PCB-173	*	*	n	NotFnd	0.78	*		480	344	5.51			
PCB-172	1.24e+05	1.07	y	45:26	0.79	72.5		-	-	*			
PCB-192	3.63e+06	1.05	y	45:39	1.08	1560		-	-	*			
PCB-180	2.52e+05	1.16	y	45:50	1.04	112		-	-	*			
PCB-193	*	*	n	NotFnd	1.12	*		480	344	3.85			
PCB-191	*	*	n	NotFnd	1.05	*		480	344	4.11			
PCB-170	8.40e+04	0.94	y	47:06	0.75	51.9		-	-	*			
PCB-190	2.41e+04	1.07	y	47:17	1.02	11.0	J	-	-	*			
PCB-189	*	*	n	NotFnd	1.13	*		480	344	3.59			
13C-PCB-189	2.07e+07	1.07	y	48:28	0.81	9670					96.7	2.66e+06	2.42e+06
PCB-202	*	*	n	NotFnd	1.00	*		192	256	3.65			
PCB-201	*	*	n	NotFnd	0.95	*		192	256	3.86			
PCB-204	6.72e+06	0.90	y	45:26	0.97	4770		-	-	*			
PCB-197	4.76e+04	0.91	y	45:42	1.05	31.4		-	-	*			
PCB-200	*	*	n	NotFnd	0.97	*		192	256	3.76			
PCB-198	*	*	n	NotFnd	0.70	*		192	256	5.24			
PCB-199	2.27e+04	1.02	y	47:42	0.78	20.2		-	-	*			
PCB-203	2.34e+04	0.82	y	47:57	0.80	20.1		-	-	*		Co-elute PCB 196	
PCB-196	2.34e+04	0.82	y	47:57	0.80	20.1		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.45e+07	0.95	y	44:49	0.60	9150					91.5	1.50e+06	1.57e+06
13C-PCB-178	1.59e+07	1.08	y	42:21	0.67	9070					90.7	1.81e+06	1.65e+06
13C-PCB-138	2.63e+07	1.26	y	41:35	-	60.8							
PCB-195	2.26e+04	0.88	y	49:03	0.78	8.50	J	-	-	*			
PCB-194	5.16e+04	0.80	y	49:52	0.83	18.3	J	-	-	*			
PCB-205	*	*	n	NotFnd	1.12	*		352	680	2.41			
13C-PCB-205	3.41e+07	0.92	y	50:07	1.29	9210					92.1	4.59e+06	4.99e+06
PCB-208	*	*	n	NotFnd	1.01	*		204	180	1.00			
13C-PCB-208	2.81e+07	0.80	y	49:09	1.11	8840					88.4	4.23e+06	5.30e+06
PCB-207	4.54e+04	1.40	y	49:28	0.98	18.3	J	-	-	*			
PCB-206	*	*	n	NotFnd	1.02	*		204	180	1.32			
13C-PCB-206	2.26e+07	0.81	y	51:18	0.89	8900					89.0	3.18e+06	3.96e+06
PCB-209	6.11e+04	1.13	y	52:29	1.11	22.2		-	-	*			
13C-PCB-209	2.49e+07	1.21	y	52:28	0.97	8930					89.3	3.77e+06	3.19e+06
13C-PCB-194	2.86e+07	0.93	y	49:52	-	64.8							

Analyst: [illegible] Date: 8/20/18

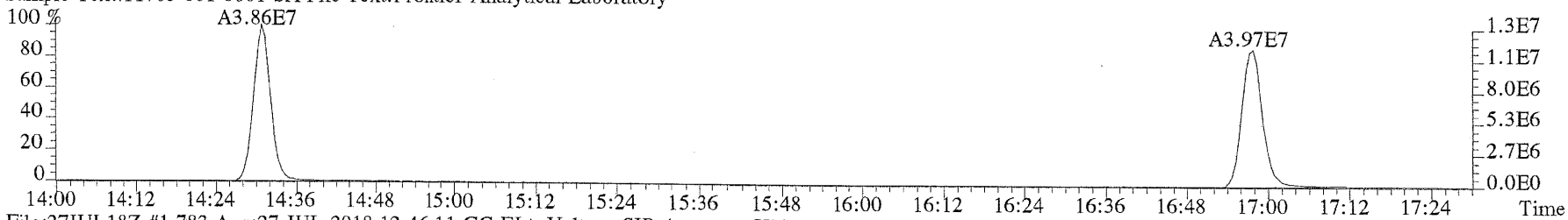
File:27JUL18Z #1-783 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



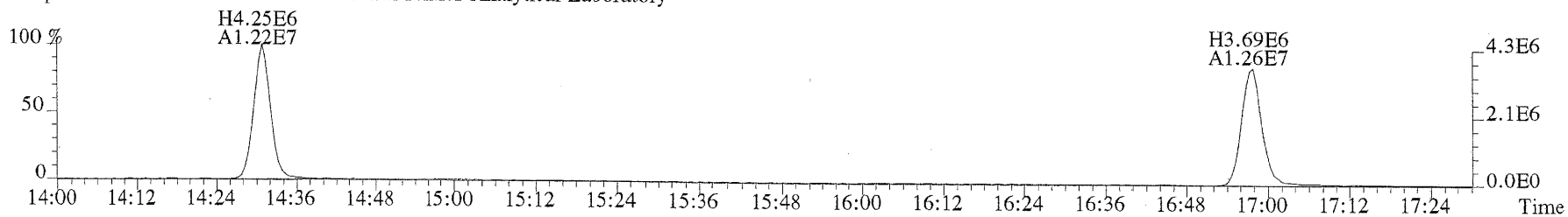
File:27JUL18Z #1-783 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



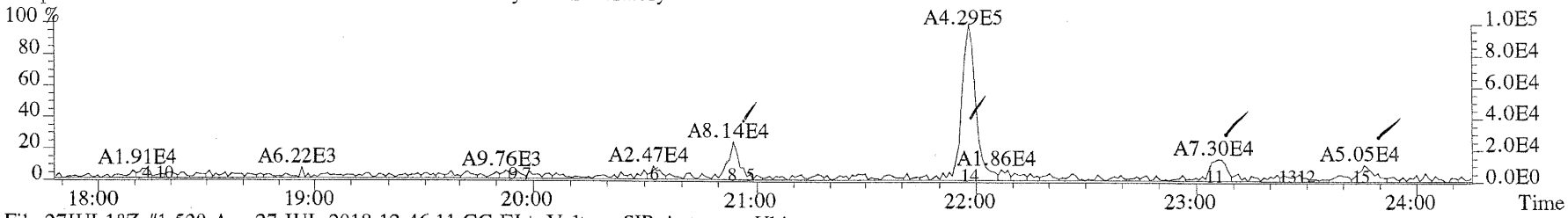
File:27JUL18Z #1-783 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



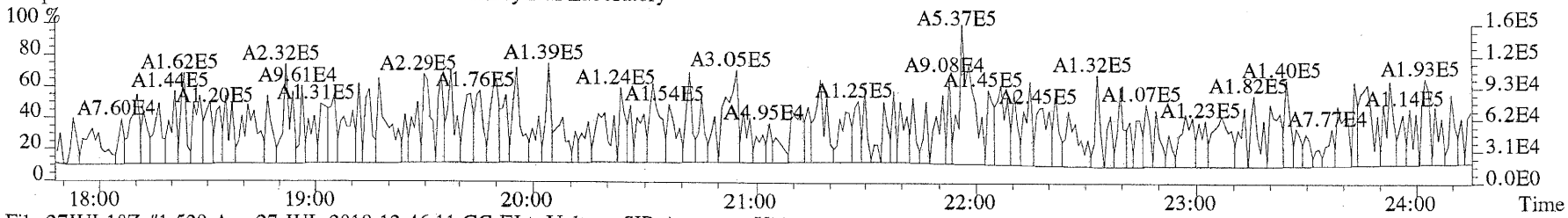
File:27JUL18Z #1-783 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



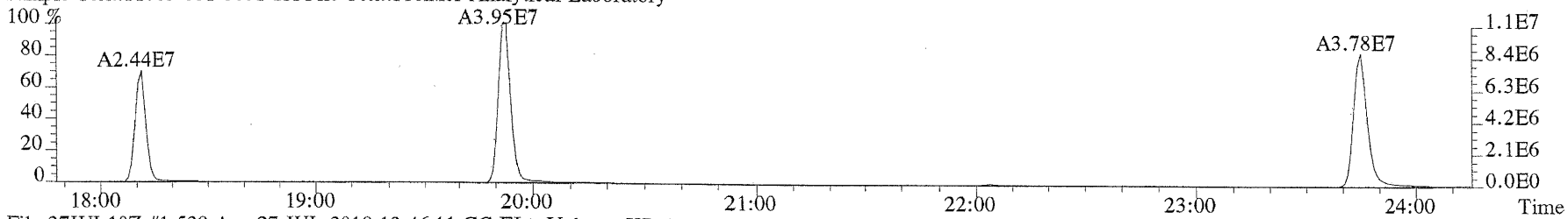
File:27JUL18Z #1-520 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



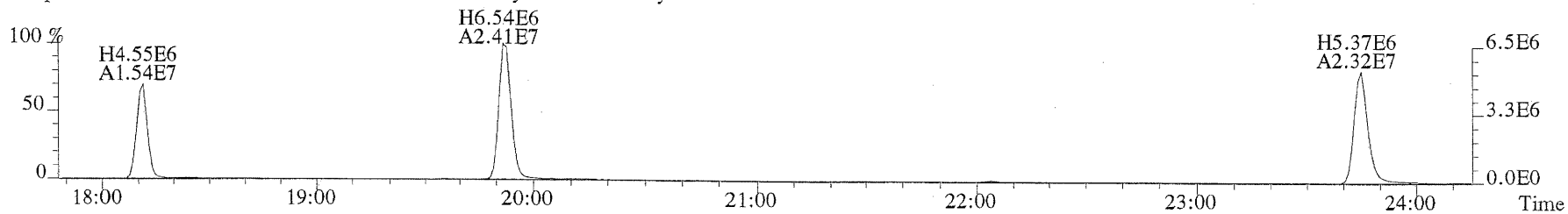
File:27JUL18Z #1-520 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



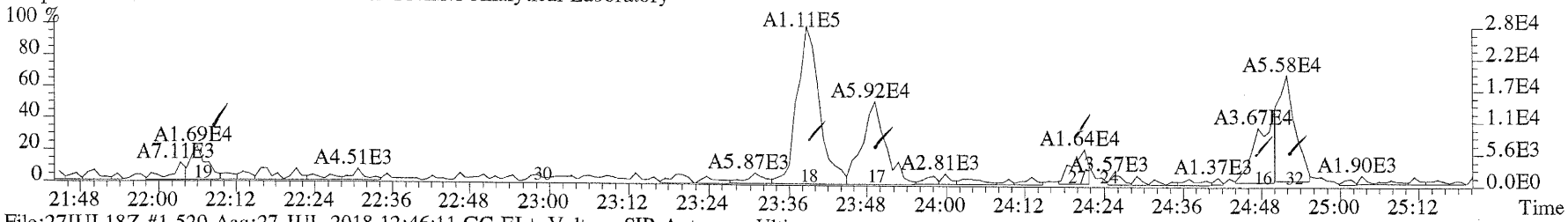
File:27JUL18Z #1-520 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



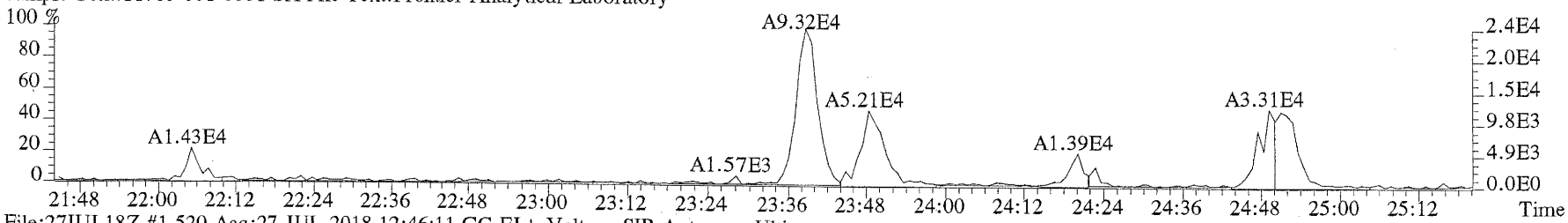
File:27JUL18Z #1-520 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



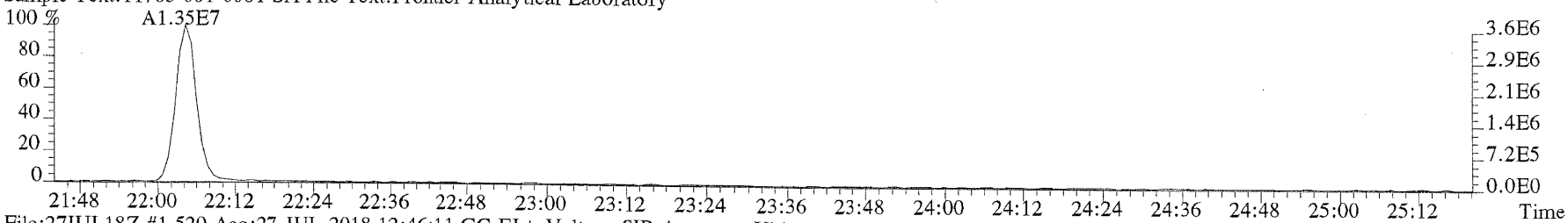
File:27JUL18Z #1-520 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



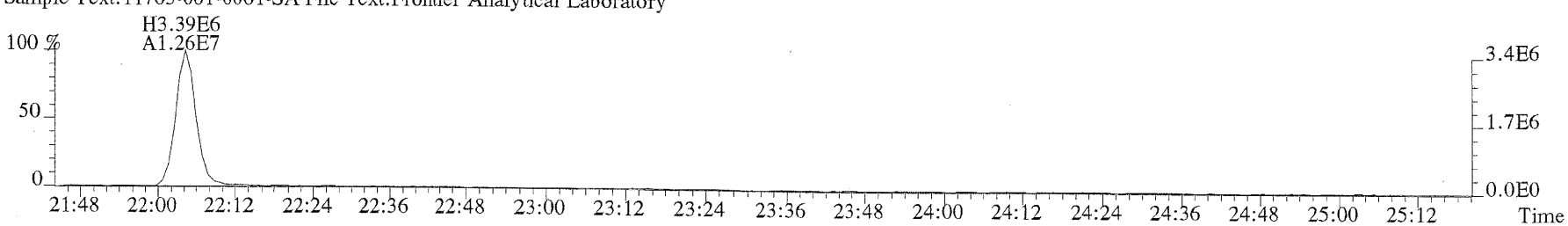
File:27JUL18Z #1-520 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



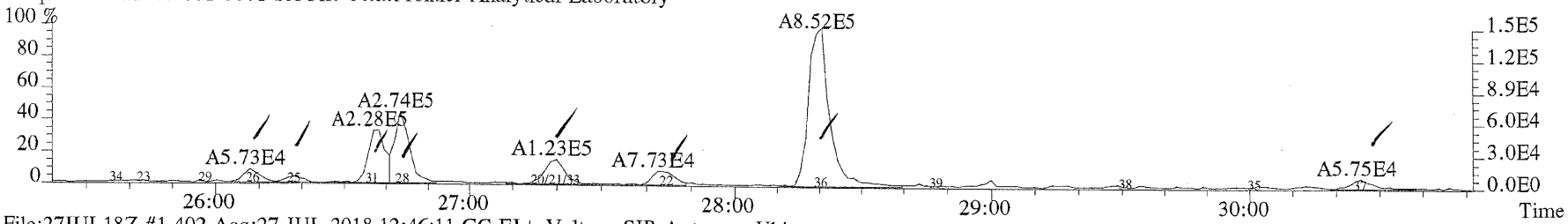
File:27JUL18Z #1-520 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



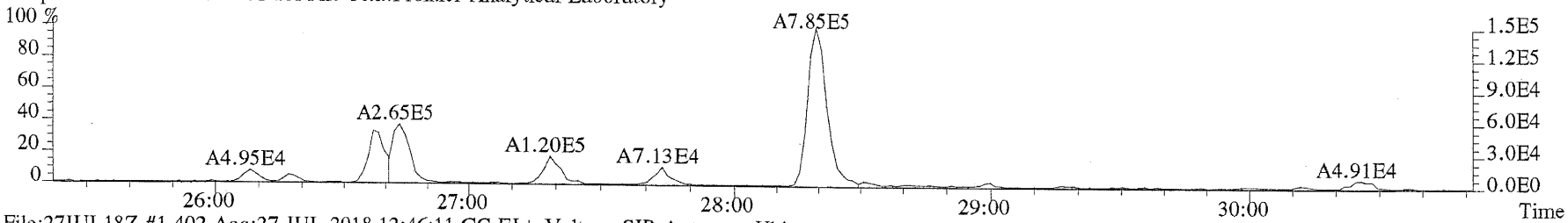
File:27JUL18Z #1-520 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



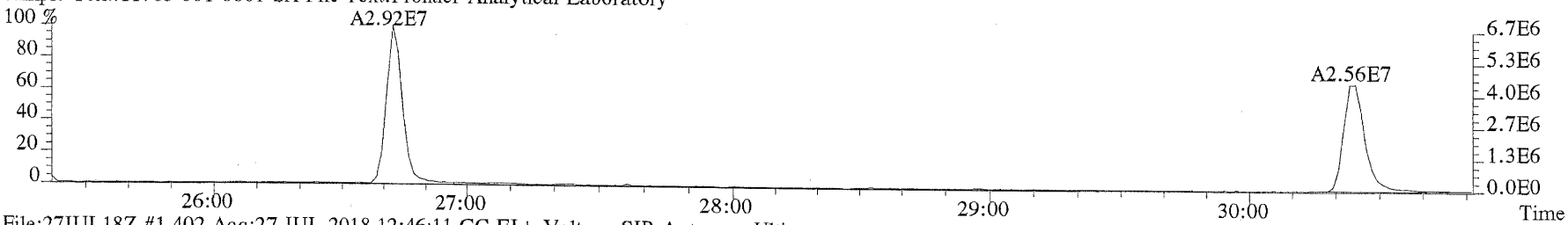
File:27JUL18Z #1-402 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



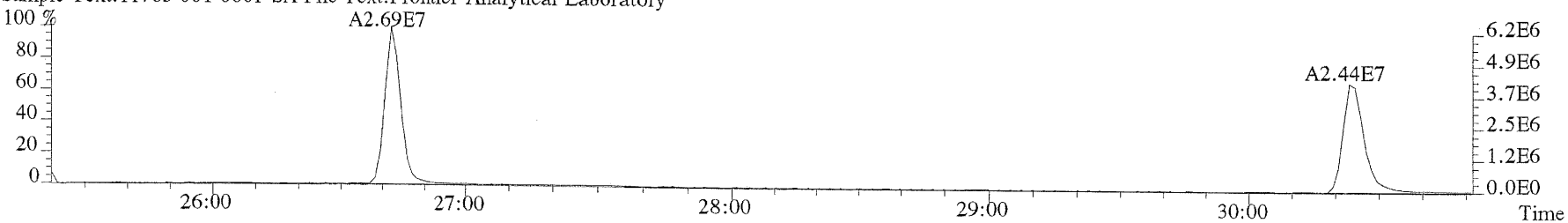
File:27JUL18Z #1-402 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



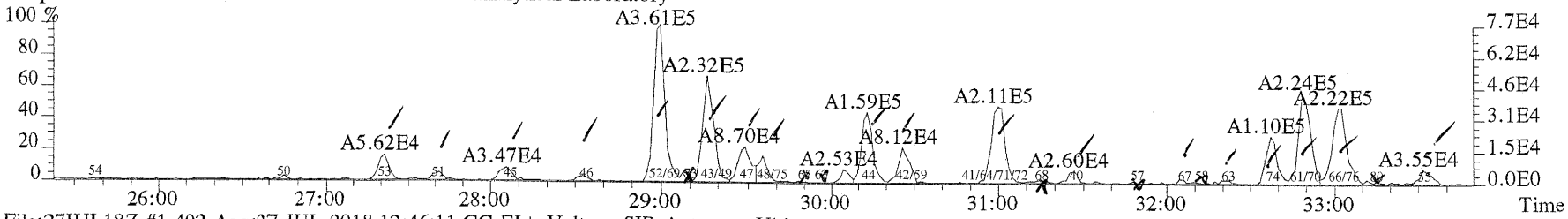
File:27JUL18Z #1-402 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



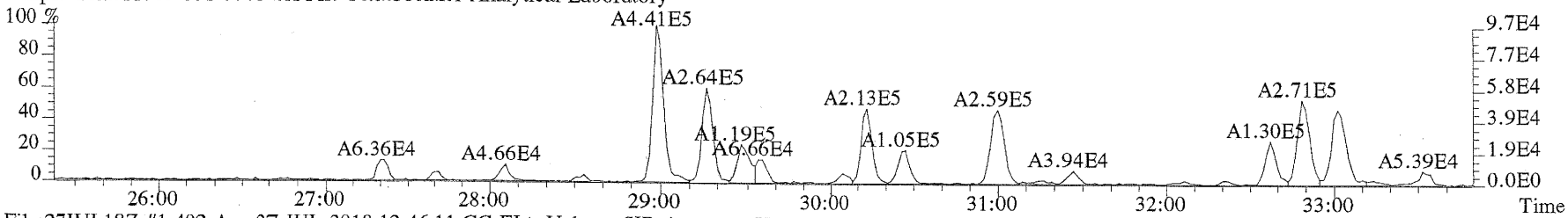
File:27JUL18Z #1-402 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



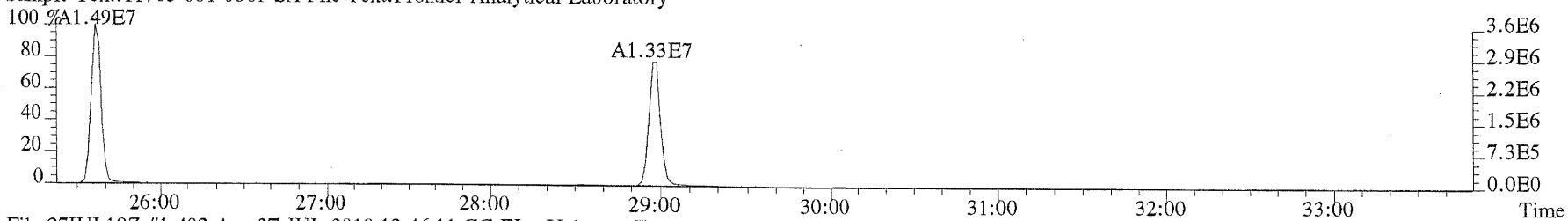
File:27JUL18Z #1-402 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



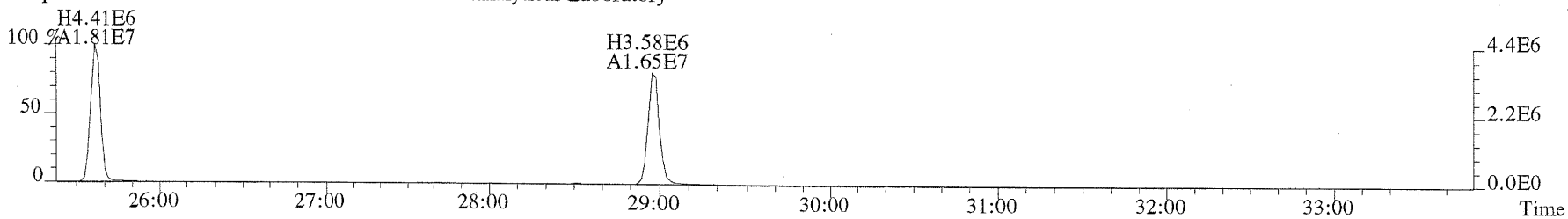
File:27JUL18Z #1-402 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



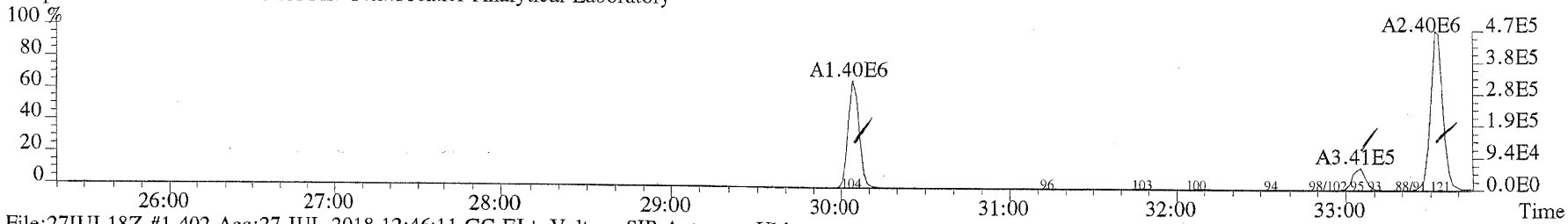
File:27JUL18Z #1-402 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



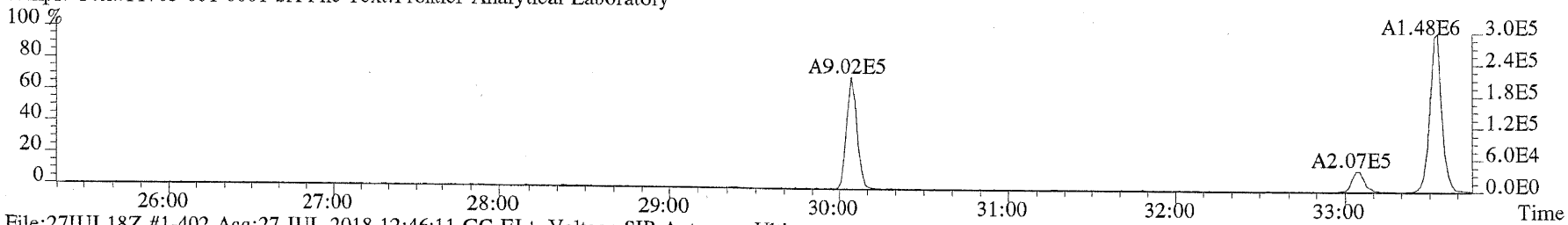
File:27JUL18Z #1-402 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



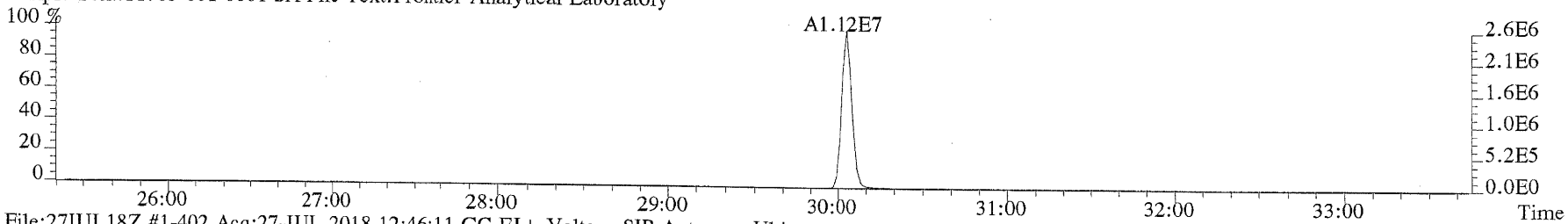
File:27JUL18Z #1-402 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



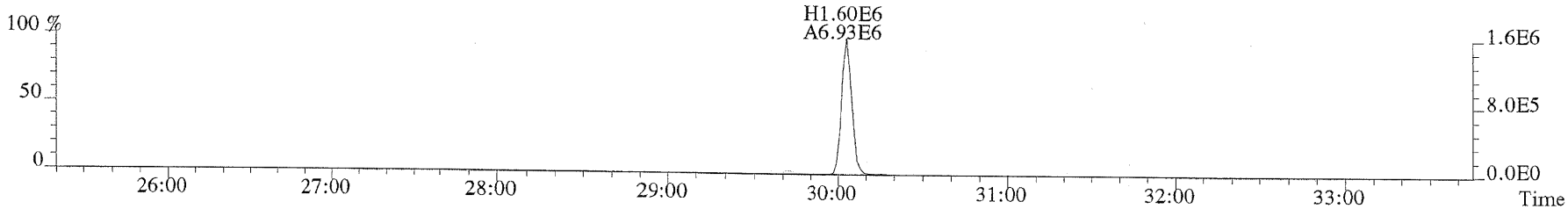
File:27JUL18Z #1-402 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



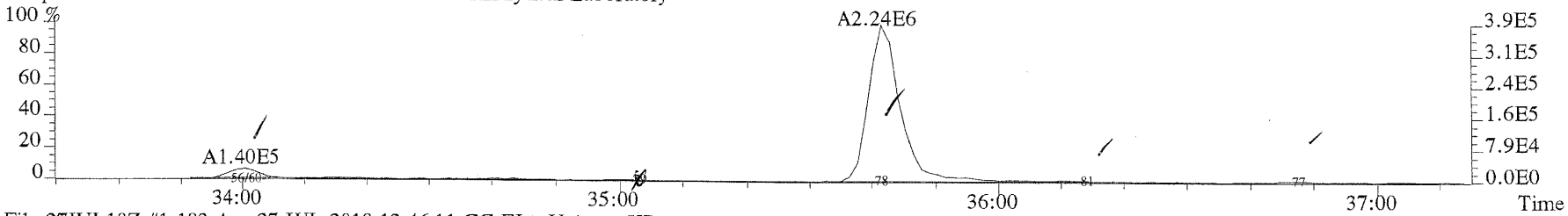
File:27JUL18Z #1-402 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



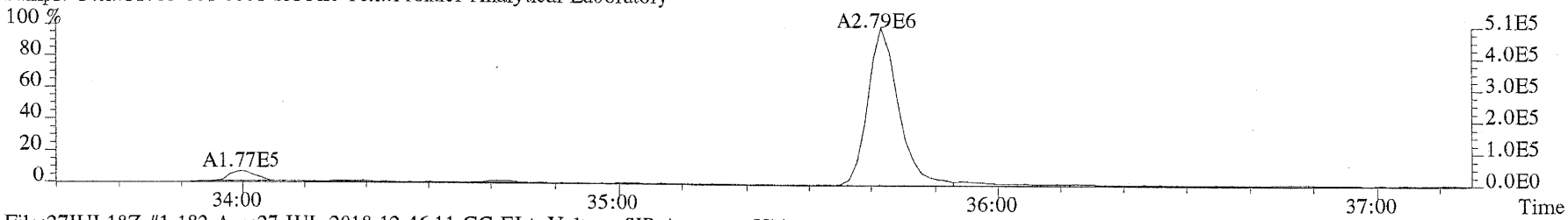
File:27JUL18Z #1-402 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



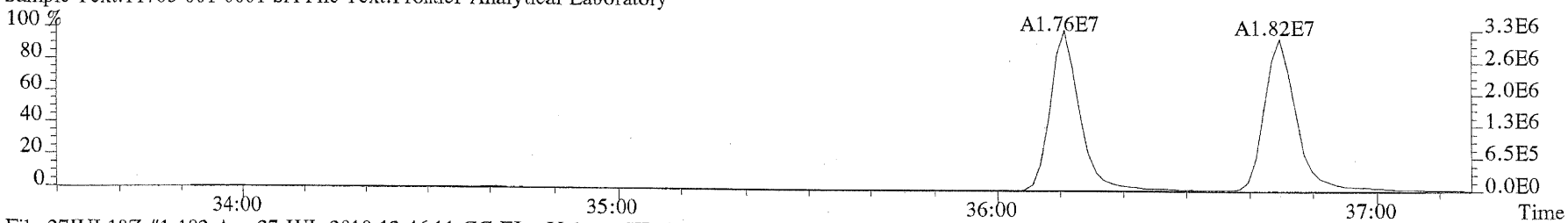
File:27JUL18Z #1-182 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



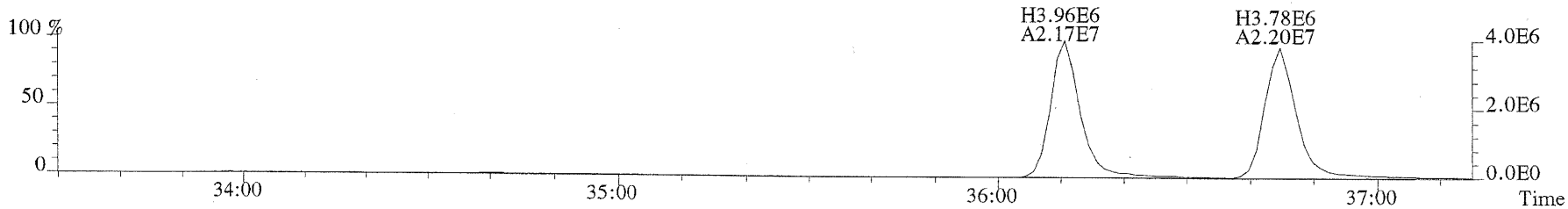
File:27JUL18Z #1-182 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



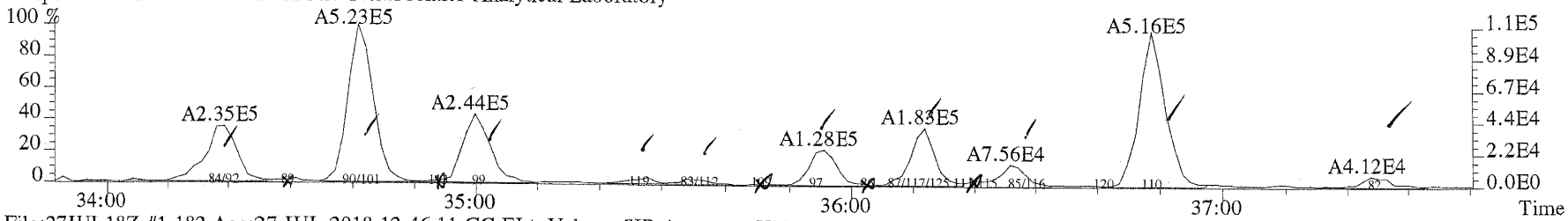
File:27JUL18Z #1-182 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



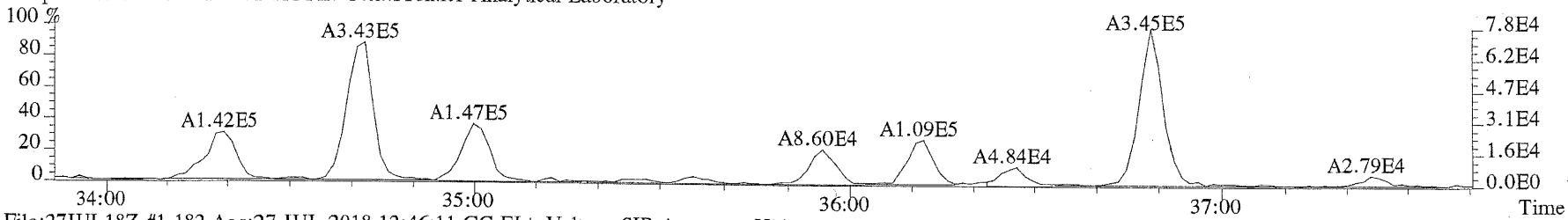
File:27JUL18Z #1-182 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-182 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-182 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



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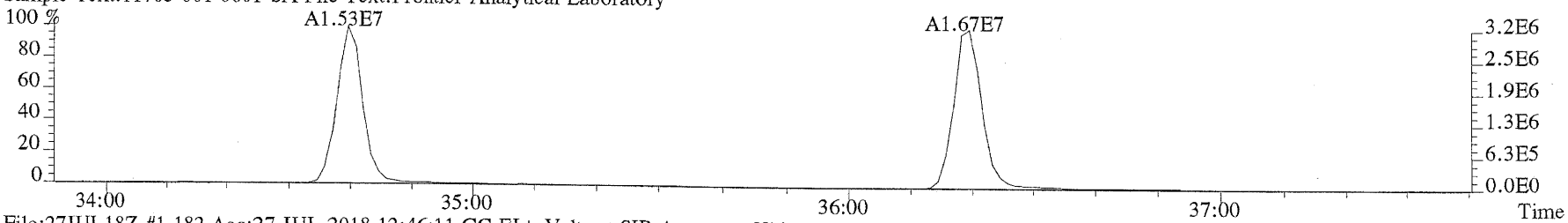
337.9207 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



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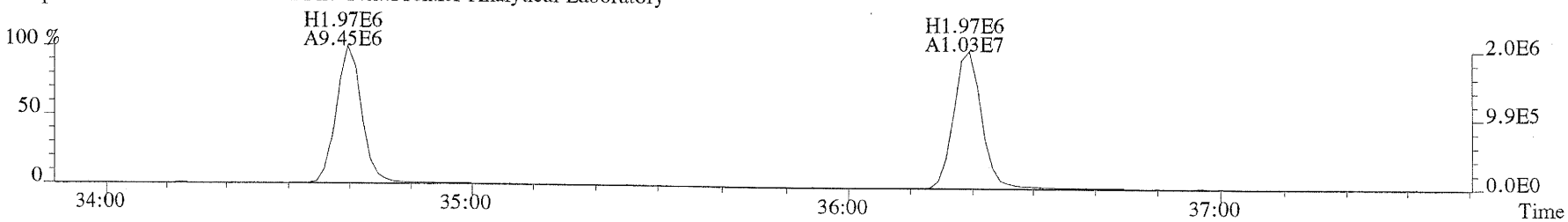
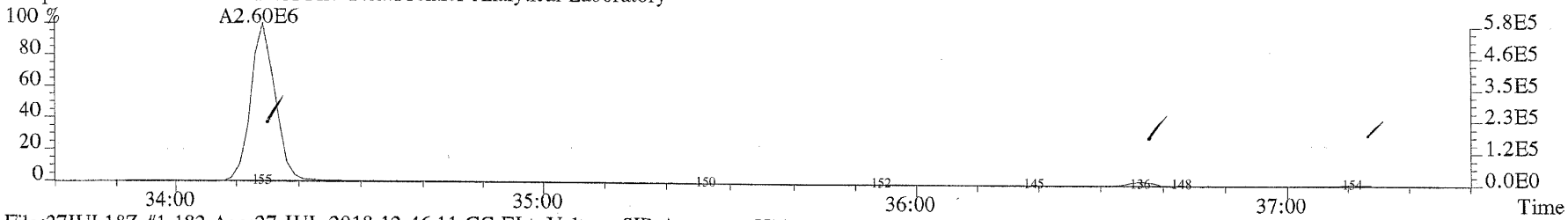
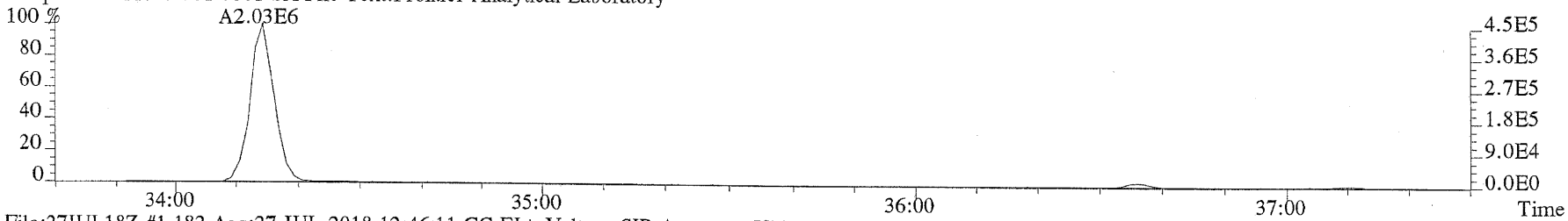
339.9178 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



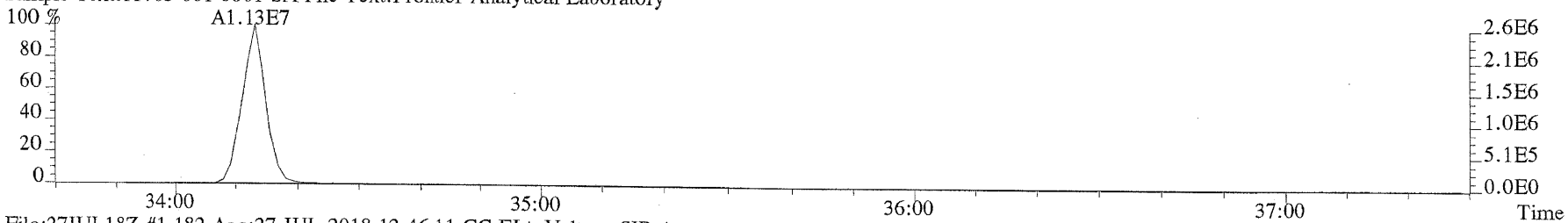
File:27JUL18Z #1-182 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



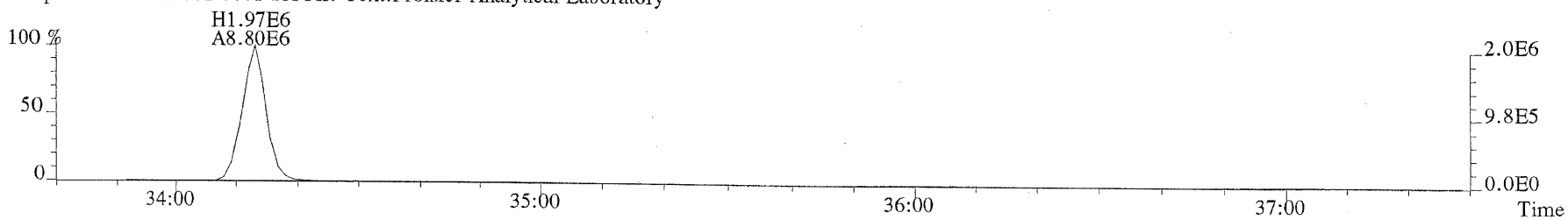
File:27JUL18Z #1-182 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



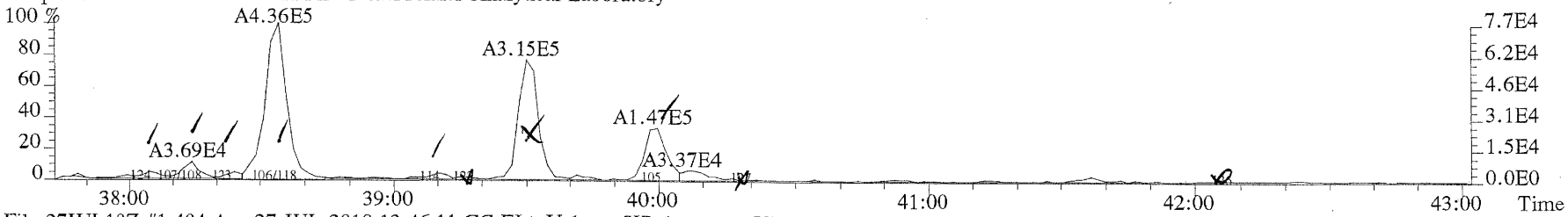
File:27JUL18Z #1-182 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



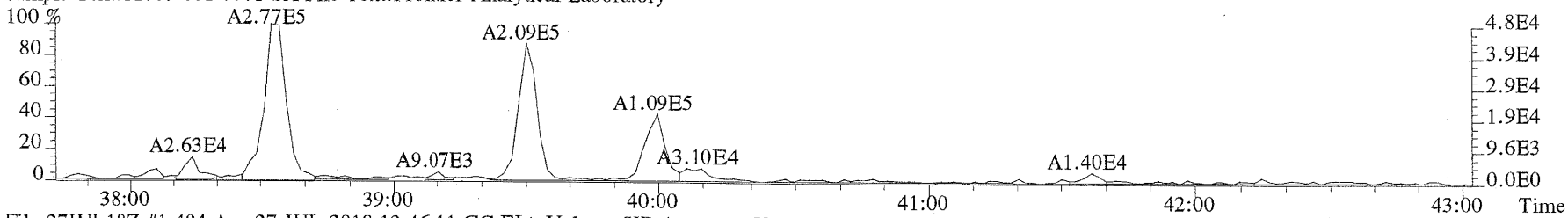
File:27JUL18Z #1-182 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



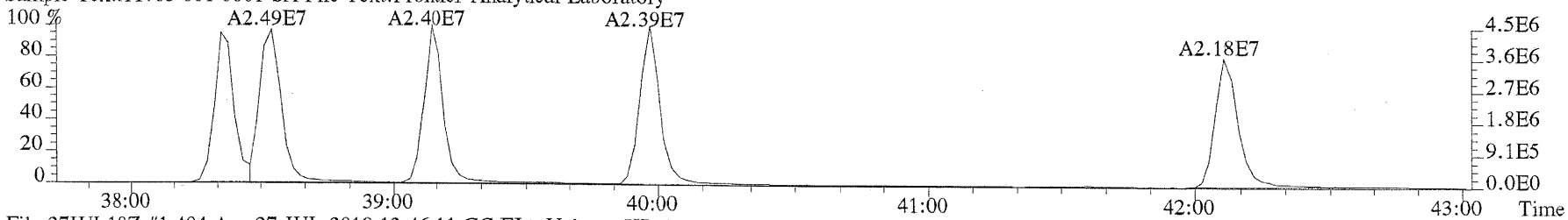
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



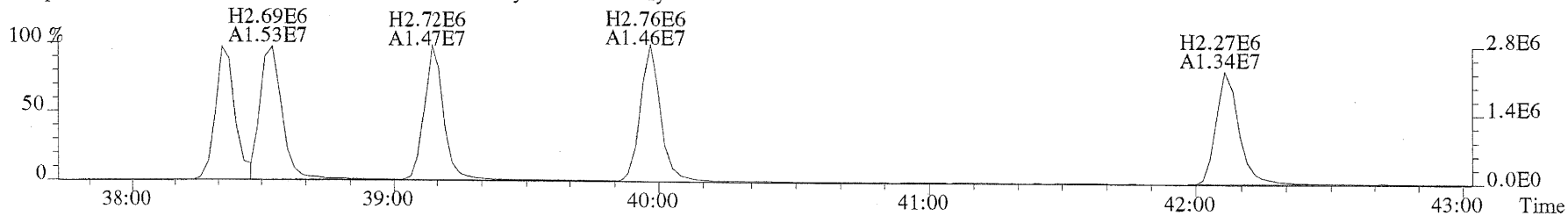
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



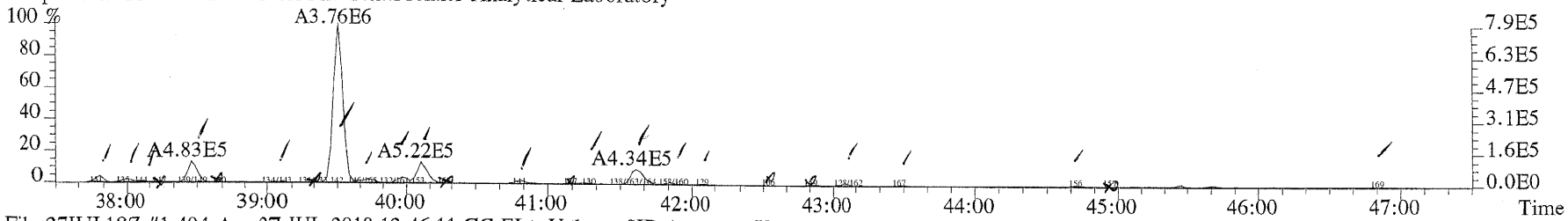
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



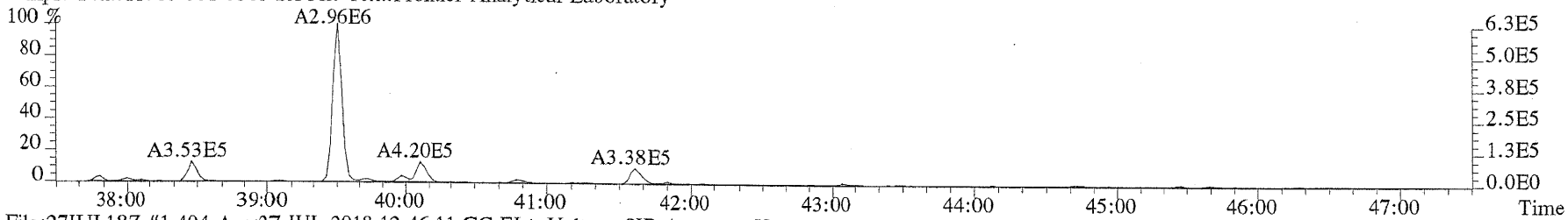
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



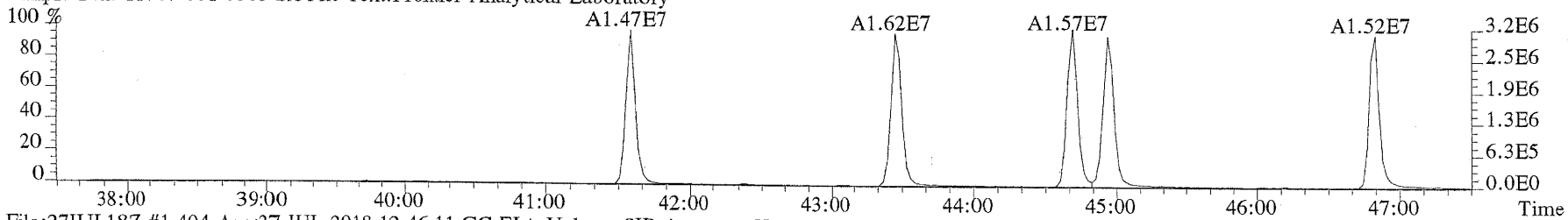
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



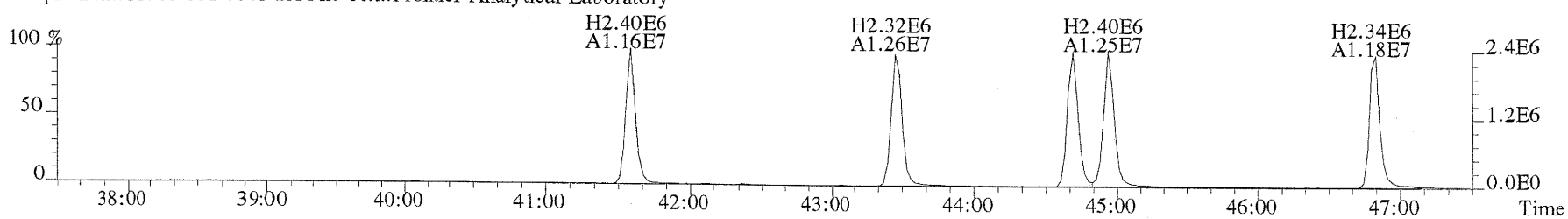
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



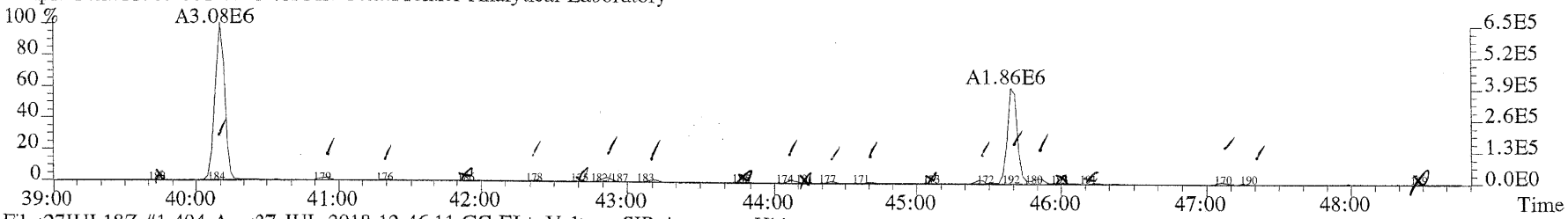
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



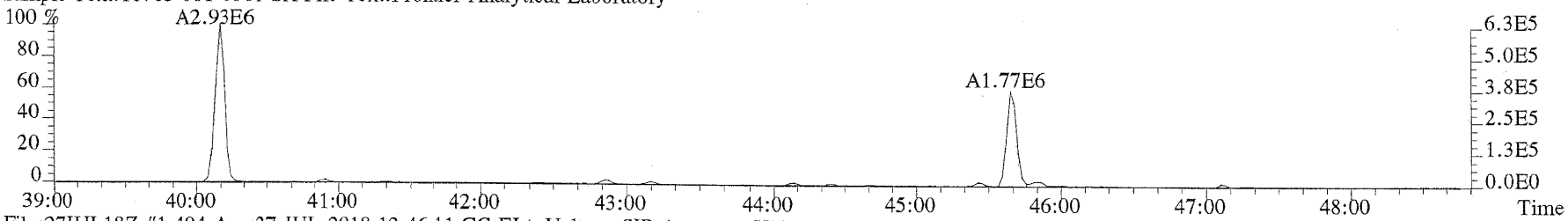
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



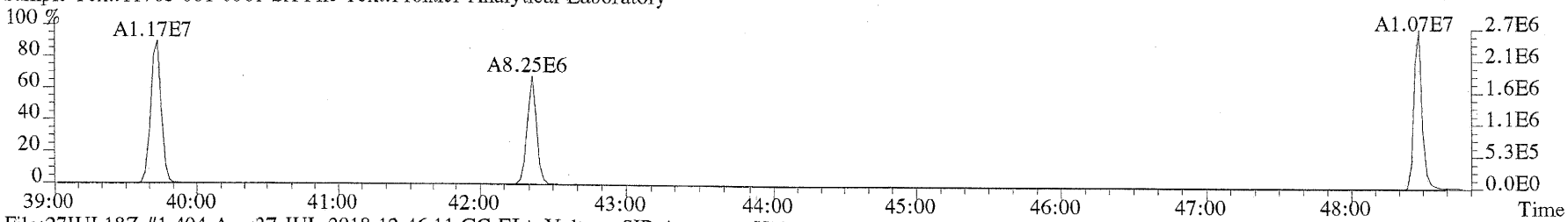
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



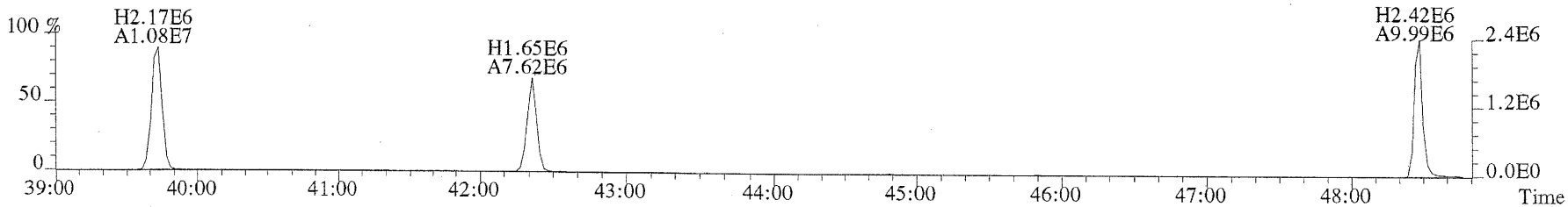
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



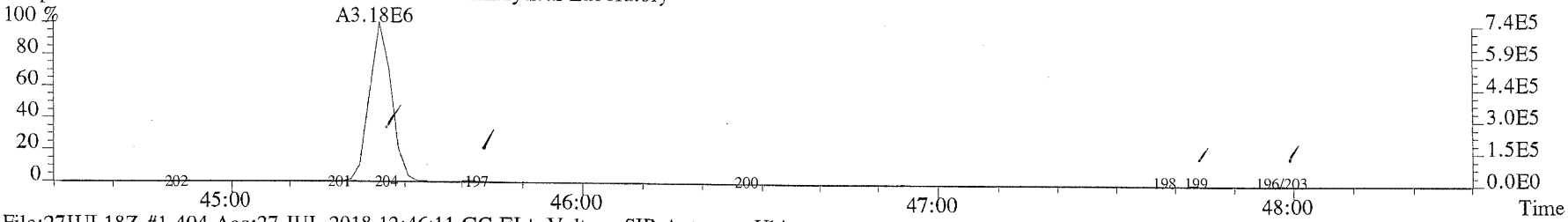
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



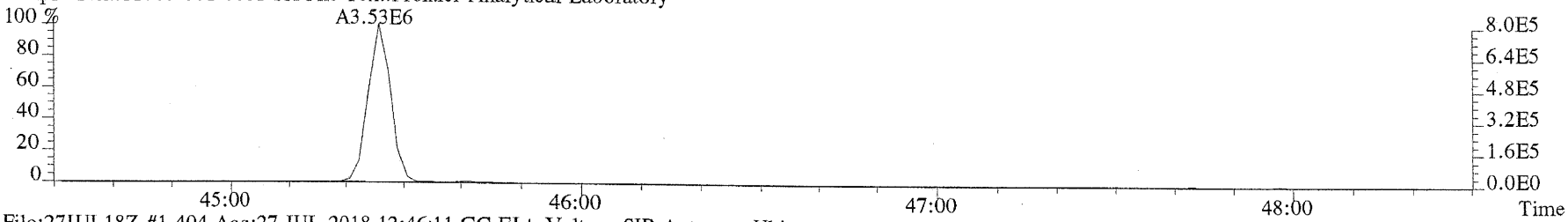
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



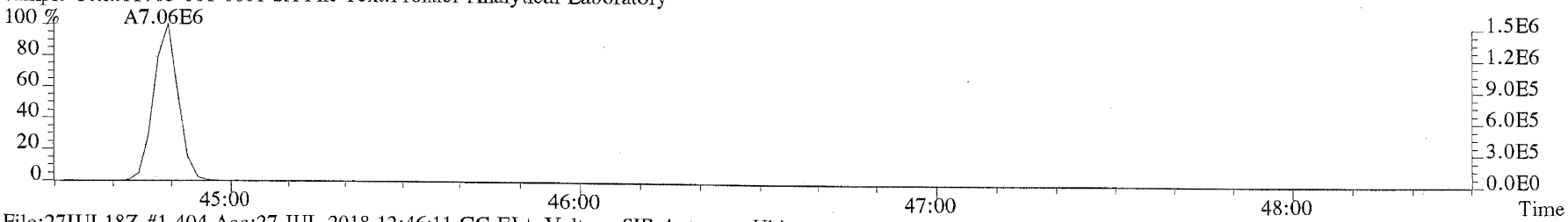
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



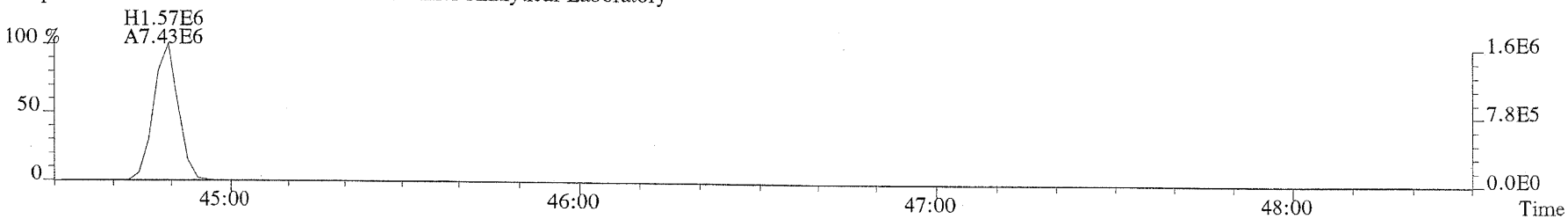
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



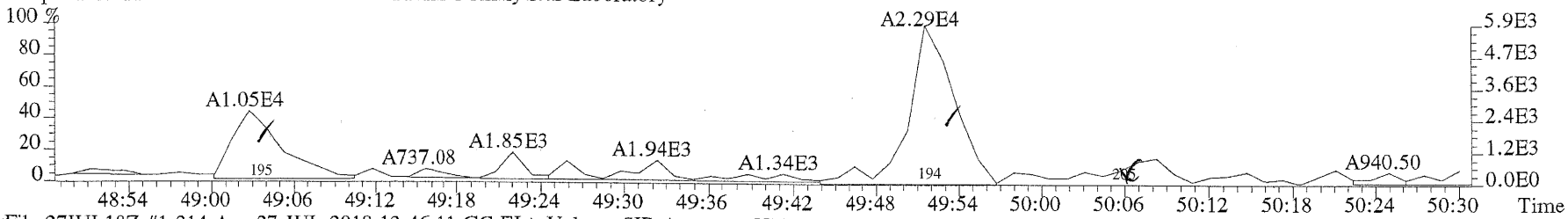
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



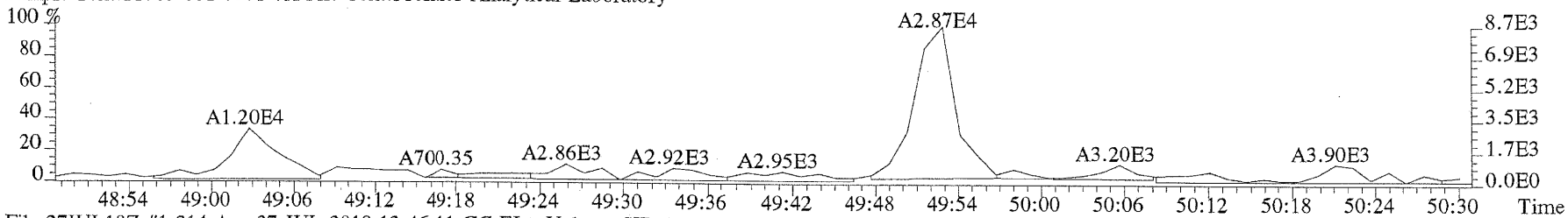
File:27JUL18Z #1-404 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



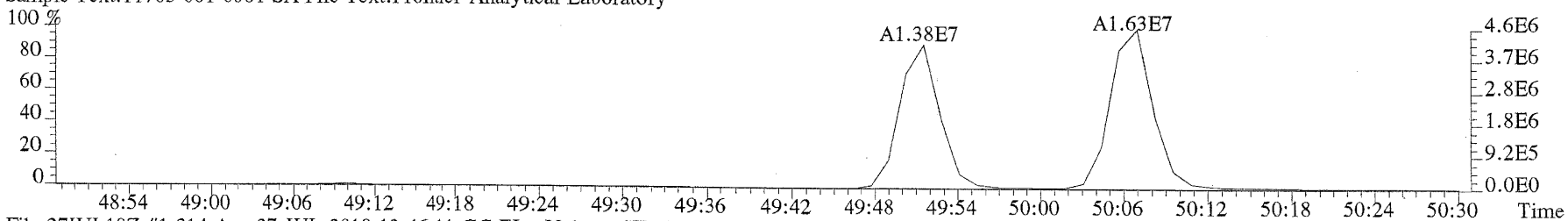
File:27JUL18Z #1-314 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



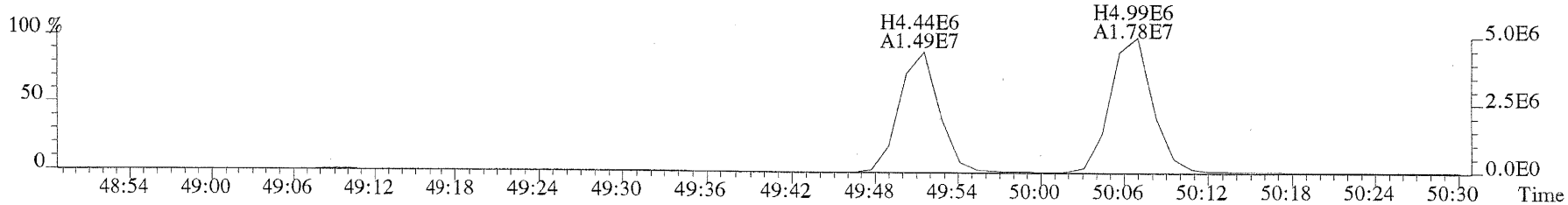
File:27JUL18Z #1-314 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



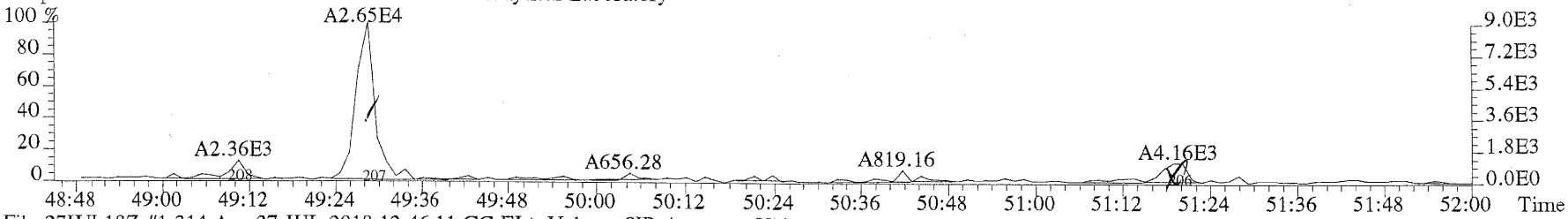
File:27JUL18Z #1-314 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



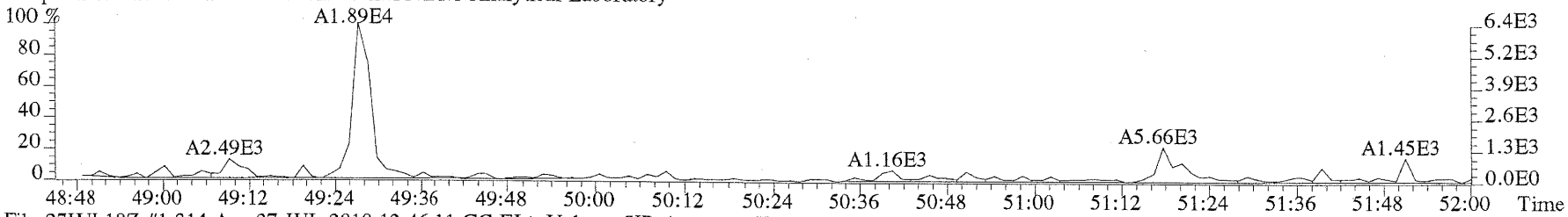
File:27JUL18Z #1-314 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



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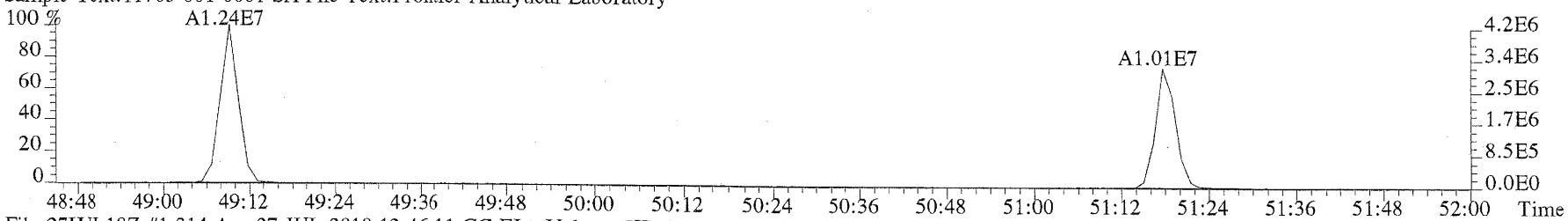
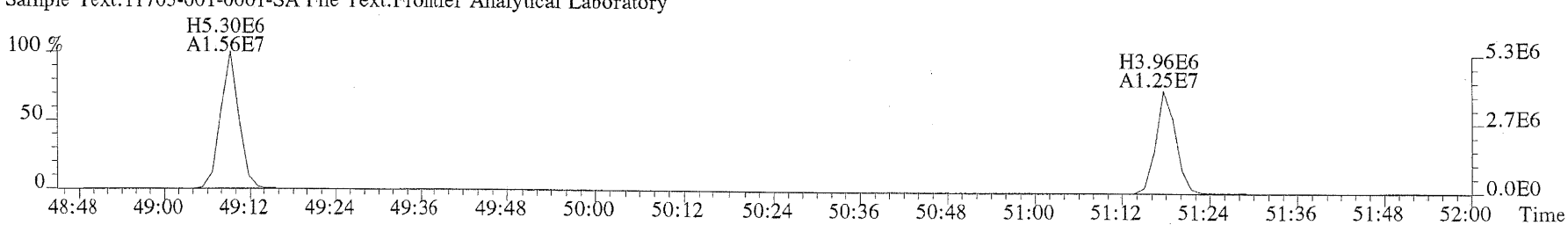
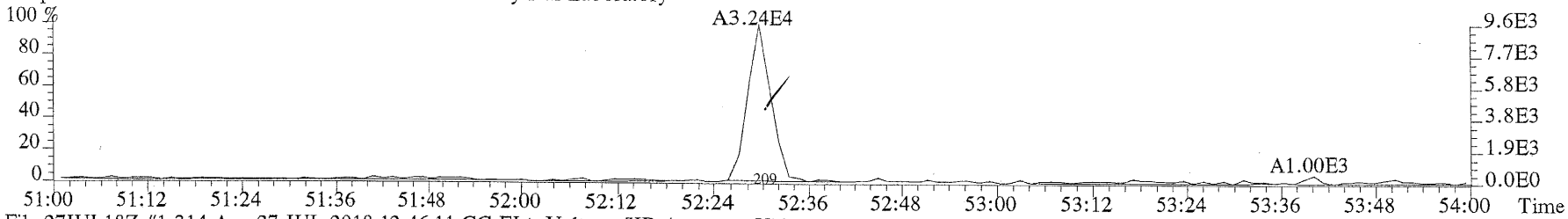
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



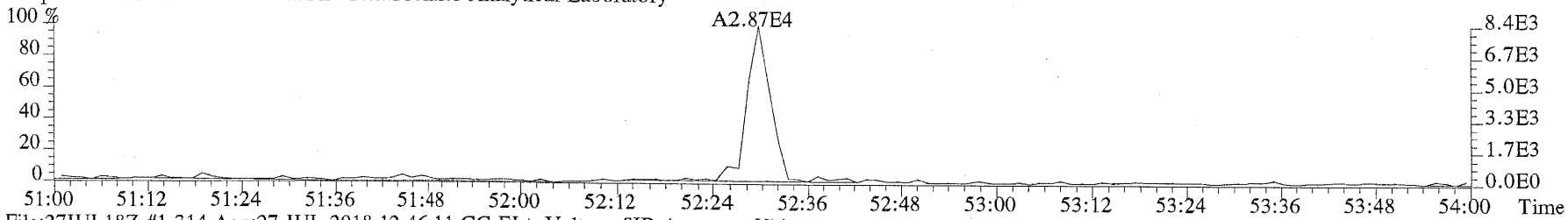
File:27JUL18Z #1-314 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



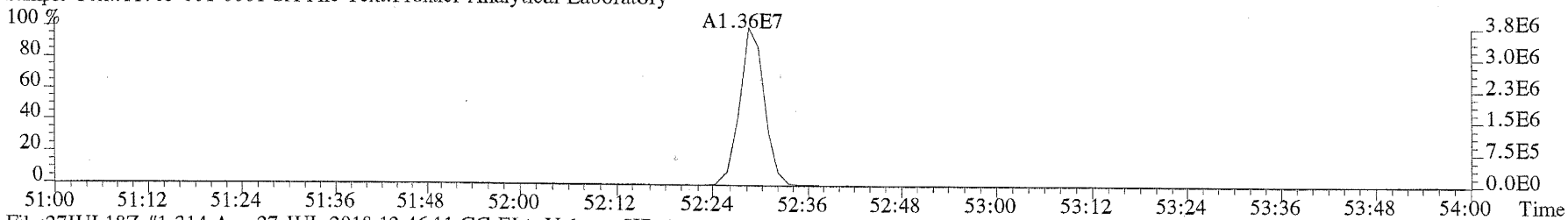
File:27JUL18Z #1-314 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



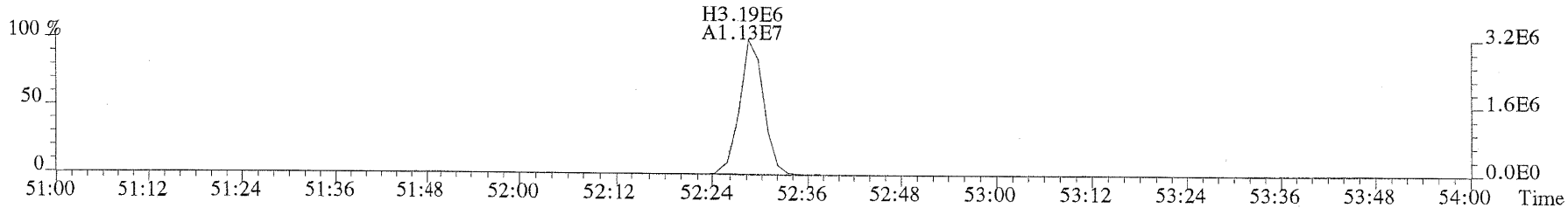
File:27JUL18Z #1-314 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 12:46:11 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11703-002-0001-SA Filename: 27JUL18Z Sam:6 Acquired: 27-JUL-18 13:44:32 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SC-ENR+AC-CB-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	*	n	NotFnd	1.17	*		1420	1140	3.25			
13C-PCB-1	4.99e+07	3.18	y	14:31	0.92	8260					82.6	1.29e+07	4.02e+06
PCB-2	*	*	n	NotFnd	1.05	*		1420	1140	3.72			
PCB-3	*	*	n	NotFnd	1.16	*		1420	1140	3.45			
13C-PCB-3	5.26e+07	3.20	y	16:57	0.93	8630					86.3	1.21e+07	3.82e+06
PCB-4	*	*	n	NotFnd	1.42	*		513	2550	4.51			
PCB-10	*	*	n	NotFnd	1.21	*		513	2550	4.69			
13C-PCB-4	4.01e+07	1.63	y	18:11	0.68	9040					90.4	7.44e+06	4.53e+06
PCB-9	*	*	n	NotFnd	1.40	*		513	2550	4.06			
PCB-7	*	*	n	NotFnd	1.40	*		513	2550	4.07			
PCB-6	*	*	n	NotFnd	1.33	*		513	2550	4.28			
PCB-8	2.02e+05	1.49	y	20:54	1.35	28.7		-	-	*			
PCB-5	*	*	n	NotFnd	1.35	*		513	2550	4.21			
PCB-14	1.74e+06	1.48	y	21:57	1.31	255		-	-	*			
PCB-11	2.53e+05	1.53	y	23:06	1.24	39.2		-	-	*			
PCB-13	*	*	n	NotFnd	1.32	*		513	2550	4.32			
PCB-12	*	*	n	NotFnd	1.30	*		513	2550	4.39			
PCB-15	9.03e+04	1.54	y	23:45	1.26	11.2	J	-	-	*			
13C-PCB-15	6.40e+07	1.64	y	23:45	1.00	9770					97.7	9.13e+06	5.47e+06
PCB-19	5.21e+04	1.16	y	22:05	1.19	16.5	J	-	-	*			
PCB-30	*	*	n	NotFnd	1.63	*		1640	396	4.35			
PCB-18	3.59e+05	1.09	y	23:40	1.14	119		-	-	*			
PCB-17	1.90e+05	1.16	y	23:49	1.23	58.3		-	-	*			
PCB-27	2.63e+04	0.98	y	24:19	1.49	6.68	J	-	-	*			
PCB-24	4.63e+04	1.16	y	24:20	1.69	10.4	J	-	-	*			
PCB-16	1.95e+05	1.14	y	24:50	1.36	54.3		-	-	*			
PCB-32	1.30e+05	1.12	y	24:52	1.41	34.9		-	-	*			
13C-PCB-19	2.64e+07	1.07	y	22:04	0.44	9090					90.9	3.75e+06	3.45e+06
13C-PCB-9	6.55e+07	1.63	y	19:52	-	57.3							
PCB-34	*	*	n	NotFnd	1.03	*		1060	920	4.81			
PCB-23	*	*	n	NotFnd	1.10	*		1060	920	4.49			
PCB-29	*	*	n	NotFnd	1.14	*		1060	920	4.32			
PCB-26	1.89e+05	1.13	y	26:08	1.04	33.3		-	-	*			
PCB-25	1.15e+05	1.02	y	26:17	1.36	15.5	J	-	-	*			
PCB-31	8.36e+05	1.06	y	26:38	1.12	138		-	-	*			
PCB-28	1.07e+06	0.96	y	26:43	1.44	137		-	-	*			
PCB-20	5.10e+05	1.04	y	27:20	1.24	76.0		-	-	*		Co-elute PCB 21/33	
PCB-21	5.10e+05	1.04	y	27:20	1.24	76.0		-	-	*		Co-elute PCB 20/33	
PCB-33	5.10e+05	1.04	y	27:20	1.24	76.0		-	-	*		Co-elute PCB 20/21	
PCB-22	3.08e+05	1.18	y	27:44	1.24	45.8		-	-	*			
PCB-36	3.46e+06	1.04	y	28:19	1.13	566		-	-	*			
PCB-39	*	*	n	NotFnd	1.16	*		1060	920	4.27			
PCB-38	*	*	n	NotFnd	1.12	*		1060	920	4.42			
PCB-35	*	*	n	NotFnd	1.08	*		1060	920	4.58			
PCB-37	1.88e+05	1.09	y	30:25	1.22	28.5		-	-	*			
13C-PCB-37	5.43e+07	1.08	y	30:25	1.72	10200					102	5.18e+06	4.84e+06

PCB-54	*	*	n	NotFnd	1.21	*		552	868	3.46			
PCB-50	*	*	n	NotFnd	0.91	*		552	868	4.61			
PCB-53	2.13e+05	0.78	y	27:21	0.93	67.9		-	-	*			
PCB-51	8.44e+04	0.86	y	27:40	0.95	26.4		-	-	*			
PCB-45	1.42e+05	0.79	y	28:05	0.79	53.2		-	-	*			
PCB-46	6.10e+04	0.75	y	28:33	0.78	23.2		-	-	*			
PCB-52	1.39e+06	0.80	y	28:59	1.13	363		-	-	*	Co-elute PCB 69		
PCB-69	1.39e+06	0.80	y	28:59	1.13	363		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.11	*		552	868	3.76			
PCB-43	8.77e+05	0.76	y	29:16	0.88	296		-	-	*	Co-elute PCB 49		
PCB-49	8.77e+05	0.76	y	29:16	0.88	296		-	-	*	Co-elute PCB 43		
PCB-47	3.19e+05	0.87	y	29:28	1.04	91.0		-	-	*			
PCB-48	2.19e+05	0.78	y	29:35	1.14	56.6		-	-	*	Co-elute PCB 75		
PCB-75	2.19e+05	0.78	y	29:35	1.14	56.6		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.15	*		552	868	3.63			
PCB-62	*	*	n	NotFnd	1.10	*		552	868	3.81			
PCB-44	6.47e+05	0.78	y	30:13	0.80	238		-	-	*			
PCB-42	3.31e+05	0.78	y	30:26	1.07	91.5		-	-	*	Co-elute PCB 59		
PCB-59	3.31e+05	0.78	y	30:26	1.07	91.5		-	-	*	Co-elute PCB 42		
PCB-72	8.04e+05	0.79	y	31:00	1.14	209		-	-	*	Co-elute PCB 41/71/64		
PCB-41	8.04e+05	0.79	y	31:00	1.14	209		-	-	*	Co-elute PCB 72/71/64		
PCB-71	8.04e+05	0.79	y	31:00	1.14	209		-	-	*	Co-elute PCB 72/41/64		
PCB-64	8.04e+05	0.79	y	31:00	1.14	209		-	-	*	Co-elute PCB 72/41/71		
PCB-68	3.47e+04	0.78	y	31:14	1.22	8.39	J	-	-	*			
PCB-40	1.10e+05	0.86	y	31:26	0.70	46.7		-	-	*			
PCB-57	*	*	n	NotFnd	1.10	*		552	868	3.79			
PCB-67	3.41e+04	0.79	y	32:07	1.18	8.51	J	-	-	*			
PCB-58	*	*	n	NotFnd	1.07	*		552	868	3.89			
PCB-63	4.67e+04	0.86	y	32:21	1.12	12.3	J	-	-	*			
PCB-74	4.01e+05	0.82	y	32:37	1.25	94.4		-	-	*			
PCB-61	9.09e+05	0.81	y	32:49	1.19	226		-	-	*	Co-elute PCB 70		
PCB-70	9.09e+05	0.81	y	32:49	1.19	226		-	-	*	Co-elute PCB 61		
PCB-76	8.75e+05	0.77	y	33:00	1.18	220		-	-	*	Co-elute PCB 66		
PCB-66	8.75e+05	0.77	y	33:00	1.18	220		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.28	*		552	868	3.25			
PCB-55	1.34e+05	0.82	y	33:33	1.17	33.8		-	-	*			
13C-PCB-54	3.39e+07	0.82	y	25:36	1.14	9590					95.9	3.84e+06	4.66e+06
PCB-104	3.95e+06	1.61	y	30:04	1.26	1700		-	-	*			
PCB-96	1.99e+04	1.38	y	31:15	1.11	9.69	J	-	-	*			
PCB-103	2.60e+04	1.52	y	31:47	0.97	14.6	J	-	-	*			
PCB-100	2.43e+04	1.63	y	32:07	0.97	13.6	J	-	-	*			
PCB-94	*	*	n	NotFnd	0.82	*		212	436	4.60			
PCB-98	*	*	n	NotFnd	0.44	*		212	436	8.53	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.44	*		212	436	8.53	Co-elute PCB 98		
PCB-95	9.03e+05	1.65	y	33:04	0.89	551		-	-	*			
PCB-93	*	*	n	NotFnd	0.82	*		212	436	4.64			
PCB-88	*	*	n	NotFnd	0.91	*		212	436	4.18	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	0.91	*		212	436	4.18	Co-elute PCB 88		
PCB-121	6.64e+06	1.62	y	33:32	1.08	3340		-	-	*			
13C-PCB-104	1.84e+07	1.59	y	30:03	0.64	9370					93.7	2.66e+06	1.63e+06
13C-PCB-28	6.09e+07	1.09	y	26:42	1.96	10000					100	7.36e+06	6.89e+06
13C-PCB-52	3.10e+07	0.82	y	28:57	-	55.6							

PCB-56	6.07e+05	0.82	y	33:59	1.22	114		-	-	*		Co-elute PCB 60	
PCB-60	6.07e+05	0.82	y	33:59	1.22	114		-	-	*		Co-elute PCB 56	
PCB-79	3.34e+04	0.79	y	35:01	1.22	6.29	J	-	-	*			
PCB-78	9.87e+06	0.78	y	35:42	1.17	1930		-	-	*			
PCB-81	1.05e+05	0.86	y	36:11	1.24	19.6	J	-	-	*			
13C-PCB-81	4.31e+07	0.82	y	36:11	1.62	10300					103	3.46e+06	4.22e+06
PCB-77	6.33e+04	0.75	y	36:45	1.18	12.2	J	-	-	*			
13C-PCB-77	4.42e+07	0.83	y	36:45	1.62	10500					105	3.38e+06	4.08e+06
PCB-155	7.69e+06	1.27	y	34:14	1.16	3110		-	-	*			
PCB-150	*	*	n	NotFnd	1.03	*		284	312	3.29			
PCB-152	*	*	n	NotFnd	0.97	*		284	312	3.48			
PCB-145	*	*	n	NotFnd	1.00	*		284	312	3.41			
PCB-136	2.05e+05	1.19	y	36:36	0.89	108		-	-	*			
PCB-148	*	*	n	NotFnd	0.83	*		284	312	4.11			
PCB-154	4.17e+04	1.40	y	37:10	0.88	22.1		-	-	*			
13C-PCB-155	2.14e+07	1.28	y	34:13	0.86	9630					96.3	2.46e+06	1.93e+06
13C-PCB-111	3.06e+07	1.57	y	36:20	1.16	10100					101	3.52e+06	2.24e+06
13C-PCB-101	2.59e+07	1.62	y	34:40	-	58.8							
PCB-84	6.09e+05	1.71	y	34:19	0.65	223		-	-	*		Co-elute PCB 92	
PCB-92	6.09e+05	1.71	y	34:19	0.65	223		-	-	*		Co-elute PCB 84	
PCB-89	2.43e+04	1.51	y	34:28	0.62	9.25	J	-	-	*			
PCB-90	1.42e+06	1.59	y	34:41	0.71	470		-	-	*		Co-elute PCB 101	
PCB-101	1.42e+06	1.59	y	34:41	0.71	470		-	-	*		Co-elute PCB 90	
PCB-113	*	*	n	NotFnd	0.75	*		610	550	4.81			
PCB-99	6.19e+05	1.35	y	35:00	0.84	174		-	-	*			
PCB-119	6.02e+04	1.74	y	35:25	0.90	15.8	J	-	-	*			
PCB-83	6.11e+04	1.75	y	35:35	0.70	20.6		-	-	*		Co-elute PCB 112	
PCB-112	6.11e+04	1.75	y	35:35	0.70	20.6		-	-	*		Co-elute PCB 83	
PCB-109	*	*	n	NotFnd	0.85	*		610	550	4.21			
PCB-97	3.19e+05	1.58	y	35:55	0.78	96.8		-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*		610	550	5.48			
PCB-125	4.54e+05	1.50	y	36:11	0.80	135		-	-	*		Co-elute PCB 87/117	
PCB-87	4.54e+05	1.50	y	36:11	0.80	135		-	-	*		Co-elute PCB 125/117	
PCB-117	4.54e+05	1.50	y	36:11	0.80	135		-	-	*		Co-elute PCB 125/87	
PCB-111	2.63e+04	1.42	y	36:20	0.98	6.39	J	-	-	*		Co-elute PCB 115	
PCB-115	2.63e+04	1.42	y	36:20	0.98	6.39	J	-	-	*		Co-elute PCB 111	
PCB-85	1.93e+05	1.63	y	36:26	0.77	59.5		-	-	*		Co-elute PCB 116	
PCB-116	1.93e+05	1.63	y	36:26	0.77	59.5		-	-	*		Co-elute PCB 85	
PCB-120	*	*	n	NotFnd	0.89	*		610	550	4.02			
PCB-110	1.37e+06	1.58	y	36:49	0.92	351		-	-	*			
PCB-82	9.31e+04	1.56	y	37:24	0.51	42.9		-	-	*			
PCB-124	5.67e+04	1.47	y	38:04	1.11	12.1	J	-	-	*			
PCB-108	1.04e+05	1.38	y	38:14	1.18	21.0		-	-	*		Co-elute PCB 107	
PCB-107	1.04e+05	1.38	y	38:14	1.18	21.0		-	-	*		Co-elute PCB 108	
PCB-123	*	*	n	NotFnd	1.37	*		776	1390	4.75			
13C-PCB-123	4.09e+07	1.70	y	38:21	1.46	9650					96.5	5.13e+06	3.13e+06
PCB-118	1.17e+06	1.61	y	38:32	1.09	244		-	-	*		Co-elute PCB 106	
PCB-106	1.17e+06	1.61	y	38:32	1.09	244		-	-	*		Co-elute PCB 118	
13C-PCB-118	4.37e+07	1.59	y	38:32	1.59	9490					94.9	4.89e+06	2.93e+06
PCB-114	*	*	n	NotFnd	1.18	*		776	1390	5.50			
13C-PCB-114	4.28e+07	1.66	y	39:09	1.51	9790					97.9	5.15e+06	3.19e+06
PCB-122	*	*	n	NotFnd	1.15	*		776	1390	5.85			
PCB-105	4.02e+05	1.49	y	40:00	1.14	85.0		-	-	*			
13C-PCB-105	4.13e+07	1.66	y	39:58	1.47	9680					96.8	4.89e+06	2.93e+06

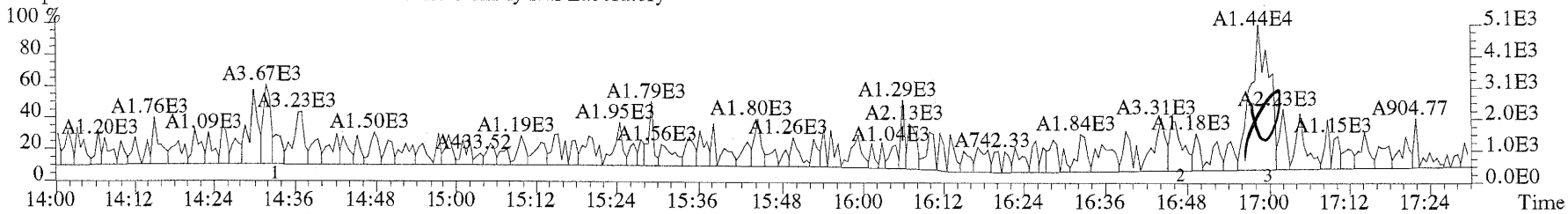
PCB-127	*	*	n	NotFnd	1.02	*		776	1390	6.63			
PCB-126	*	*	n	NotFnd	1.18	*		776	1390	6.36			
13C-PCB-126	4.11e+07	1.63	y	42:06	1.39	10200					102	4.45e+06	2.76e+06
PCB-151	3.56e+05	1.24	y	37:48	0.89	129		-	-	*			
PCB-135	1.83e+05	1.33	y	38:00	0.90	65.2		-	-	*			
PCB-144	7.82e+04	1.24	y	38:06	0.85	29.6		-	-	*			
PCB-147	2.96e+04	1.08	y	38:14	0.90	10.6	J	-	-	*			
PCB-139	1.27e+06	1.29	y	38:28	0.95	428		-	-	*		Co-elute PCB 149	
PCB-149	1.27e+06	1.29	y	38:28	0.95	428		-	-	*		Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.92	*		704	612	5.82			
PCB-143	7.43e+04	1.11	y	39:04	0.87	27.3		-	-	*		Co-elute PCB 134	
PCB-134	7.43e+04	1.11	y	39:04	0.87	27.3		-	-	*		Co-elute PCB 143	
PCB-131	2.42e+04	1.21	y	39:20	0.89	8.69	J	-	-	*		Co-elute PCB 133	
PCB-133	2.42e+04	1.21	y	39:20	0.89	8.69	J	-	-	*		Co-elute PCB 131	
PCB-142	1.13e+07	1.22	y	39:30	0.77	4730		-	-	*			
PCB-165	2.18e+05	1.08	y	39:43	1.04	67.2		-	-	*		Co-elute PCB 146	
PCB-146	2.18e+05	1.08	y	39:43	1.04	67.2		-	-	*		Co-elute PCB 165	
PCB-161	3.75e+05	1.18	y	39:58	0.97	124		-	-	*		Co-elute PCB 132	
PCB-132	3.75e+05	1.18	y	39:58	0.97	124		-	-	*		Co-elute PCB 161	
PCB-153	1.40e+06	1.33	y	40:06	1.01	448		-	-	*			
PCB-168	*	*	n	NotFnd	1.12	*		704	612	4.79			
PCB-141	1.67e+05	1.33	y	40:49	0.88	60.9		-	-	*			
PCB-137	3.37e+04	1.15	y	41:10	0.83	13.1	J	-	-	*			
PCB-130	6.31e+04	1.40	y	41:15	0.78	26.0		-	-	*			
PCB-138	1.13e+06	1.17	y	41:37	1.14	318		-	-	*		Co-elute PCB 163/164	
PCB-163	1.13e+06	1.17	y	41:37	1.14	318		-	-	*		Co-elute PCB 138/164	
PCB-164	1.13e+06	1.17	y	41:37	1.14	318		-	-	*		Co-elute PCB 138/163	
PCB-158	1.18e+05	1.27	y	41:50	1.14	33.1		-	-	*		Co-elute PCB 160	
PCB-160	1.18e+05	1.27	y	41:50	1.14	33.1		-	-	*		Co-elute PCB 158	
PCB-129	3.16e+04	1.16	y	42:05	0.73	13.8	J	-	-	*			
PCB-166	*	*	n	NotFnd	1.07	*		704	612	5.02			
PCB-159	*	*	n	NotFnd	1.17	*		704	612	4.61			
PCB-128	1.05e+05	1.38	y	43:06	0.97	35.0		-	-	*		Co-elute PCB 162	
PCB-162	1.05e+05	1.38	y	43:06	0.97	35.0		-	-	*		Co-elute PCB 128	
PCB-167	4.07e+04	1.17	y	43:29	1.05	12.2	J	-	-	*			
13C-PCB-167	3.19e+07	1.28	y	43:27	1.15	9560					95.6	3.50e+06	2.78e+06
PCB-156	7.04e+04	1.15	y	44:41	1.09	21.4		-	-	*			
13C-PCB-156	3.04e+07	1.28	y	44:41	1.12	9320					93.2	3.43e+06	2.65e+06
PCB-157	*	*	n	NotFnd	1.13	*		704	612	4.78			
13C-PCB-157	3.16e+07	1.29	y	44:56	1.15	9440					94.4	3.45e+06	2.65e+06
PCB-169	*	*	n	NotFnd	1.06	*		704	612	5.17			
13C-PCB-169	3.07e+07	1.26	y	46:48	1.08	9760					97.6	3.37e+06	2.66e+06

FAL ID: 11703-002-0001-SA Filename: 27JUL18Z Sam:6 Acquired: 27-JUL-18 13:44:32 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SC-ENR+AC-CB-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

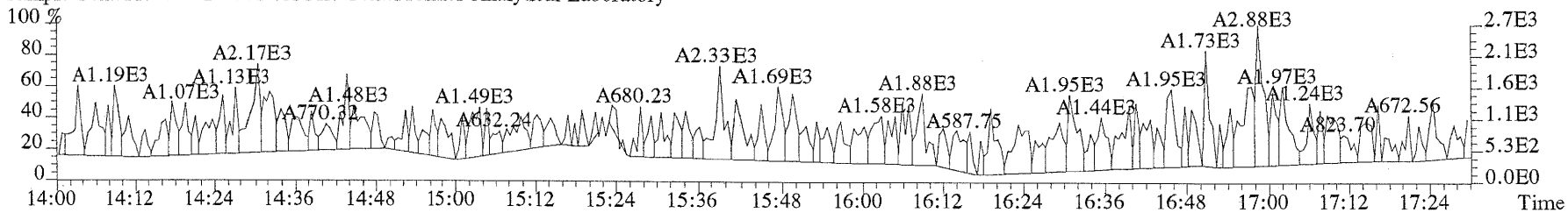
PCB-188	*	*	n	NotFnd	1.17	*		476	372	3.83			
13C-PCB-188	2.38e+07	1.08	y	39:43	0.93	8860					88.6	2.46e+06	2.26e+06
PCB-184	9.81e+06	1.05	y	40:10	1.22	3420		-	-	*			
PCB-179	1.46e+05	1.15	y	40:54	1.12	55.5		-	-	*			
PCB-176	4.23e+04	1.01	y	41:19	1.09	16.4	J	-	-	*			
PCB-186	*	*	n	NotFnd	1.14	*		476	372	3.71			
PCB-178	4.66e+04	0.97	y	42:23	0.80	24.8		-	-	*			
PCB-175	*	*	n	NotFnd	0.85	*		476	372	4.98			
PCB-187	2.72e+05	0.94	y	42:51	0.95	121		-	-	*		Co-elute PCB 182	
PCB-182	2.72e+05	0.94	y	42:51	0.95	121		-	-	*		Co-elute PCB 187	
PCB-183	1.31e+05	1.19	y	43:11	0.91	61.2		-	-	*			
PCB-185	2.57e+04	1.04	y	43:48	0.88	12.4	J	-	-	*			
PCB-174	1.47e+05	1.12	y	44:08	0.81	77.3		-	-	*			
PCB-181	*	*	n	NotFnd	0.92	*		476	372	4.57			
PCB-177	9.50e+04	1.16	y	44:23	0.79	51.0		-	-	*			
PCB-171	4.36e+04	1.15	y	44:41	0.83	22.3		-	-	*			
PCB-173	*	*	n	NotFnd	0.78	*		476	372	5.39			
PCB-172	2.11e+05	0.95	y	45:26	0.79	114		-	-	*			
PCB-192	6.46e+06	1.09	y	45:39	1.08	2550		-	-	*			
PCB-180	3.19e+05	0.96	y	45:50	1.04	130		-	-	*			
PCB-193	2.84e+04	1.01	y	46:00	1.12	10.7	J	-	-	*			
PCB-191	*	*	n	NotFnd	1.05	*		476	372	4.02			
PCB-170	1.09e+05	1.11	y	47:06	0.75	61.7		-	-	*			
PCB-190	4.18e+04	0.94	y	47:16	1.02	17.5	J	-	-	*			
PCB-189	*	*	n	NotFnd	1.13	*		476	372	3.47			
13C-PCB-189	2.33e+07	1.09	y	48:28	0.81	9860					98.6	2.80e+06	2.60e+06
PCB-202	*	*	n	NotFnd	1.00	*		156	276	3.30			
PCB-201	*	*	n	NotFnd	0.95	*		156	276	3.48			
PCB-204	1.13e+07	0.91	y	45:26	0.97	7380		-	-	*			
PCB-197	7.83e+04	0.86	y	45:42	1.05	47.5		-	-	*			
PCB-200	*	*	n	NotFnd	0.97	*		156	276	3.40			
PCB-198	*	*	n	NotFnd	0.70	*		156	276	4.73			
PCB-199	3.33e+04	0.88	y	47:42	0.78	27.2		-	-	*			
PCB-203	3.81e+04	0.89	y	47:57	0.80	30.1		-	-	*		Co-elute PCB 196	
PCB-196	3.81e+04	0.89	y	47:57	0.80	30.1		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.58e+07	0.93	y	44:49	0.60	9020					90.2	1.56e+06	1.71e+06
13C-PCB-178	1.83e+07	1.10	y	42:21	0.67	9470					94.7	2.04e+06	1.82e+06
13C-PCB-138	2.90e+07	1.27	y	41:35	-	67.1							
PCB-195	2.94e+04	0.81	y	49:04	0.78	10.1	J	-	-	*			
PCB-194	5.69e+04	0.79	y	49:52	0.83	18.4	J	-	-	*			
PCB-205	*	*	n	NotFnd	1.12	*		420	780	2.67			
13C-PCB-205	3.73e+07	0.93	y	50:07	1.29	8890					88.9	4.83e+06	5.24e+06
PCB-208	*	*	n	NotFnd	1.01	*		504	492	2.52			
13C-PCB-208	3.09e+07	0.80	y	49:09	1.11	8590					85.9	4.35e+06	5.46e+06
PCB-207	6.85e+04	1.17	y	49:27	0.98	25.2		-	-	*			
PCB-206	*	*	n	NotFnd	1.02	*		504	492	3.23			
13C-PCB-206	2.47e+07	0.81	y	51:18	0.89	8580					85.8	3.40e+06	4.19e+06
PCB-209	9.19e+04	1.08	y	52:30	1.11	31.4		-	-	*			
13C-PCB-209	2.65e+07	1.21	y	52:30	0.97	8390					83.9	4.06e+06	3.38e+06
13C-PCB-194	3.24e+07	0.92	y	49:52	-	73.4							

Analyst: _____ Date: 8/20/18

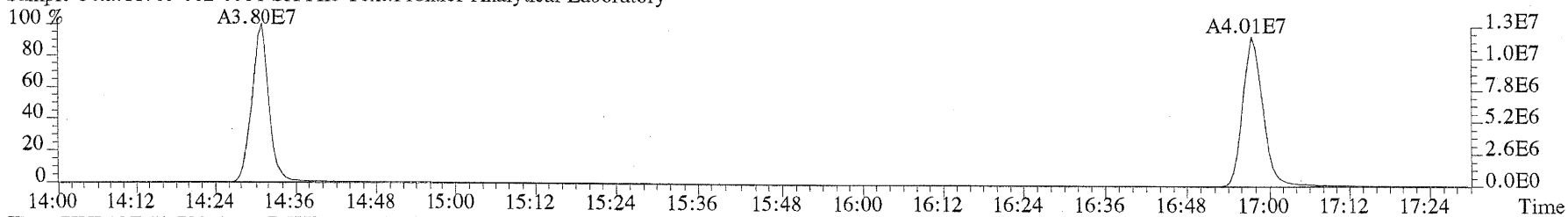
File:27JUL18Z #1-783 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



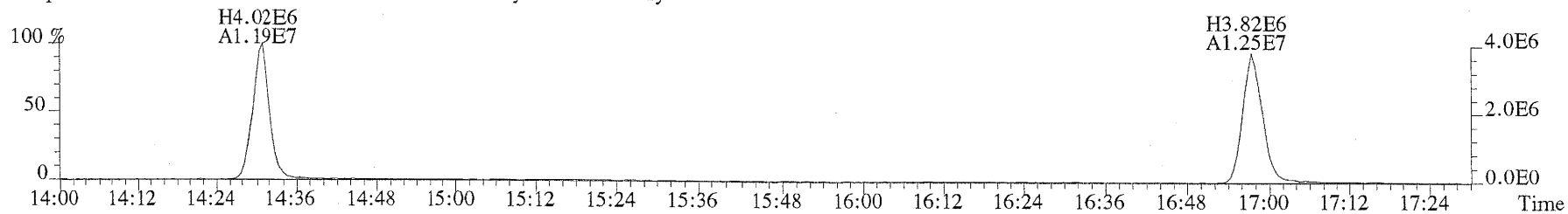
File:27JUL18Z #1-783 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



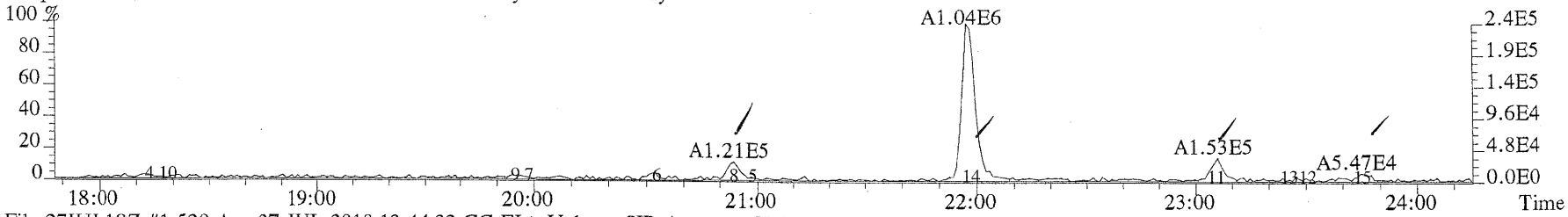
File:27JUL18Z #1-783 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



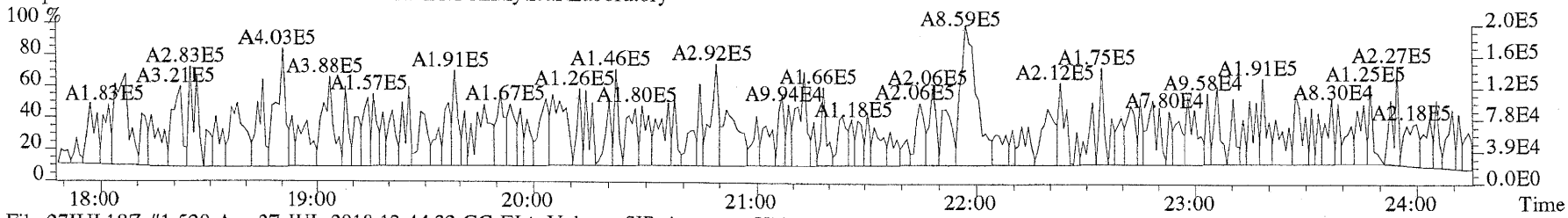
File:27JUL18Z #1-783 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



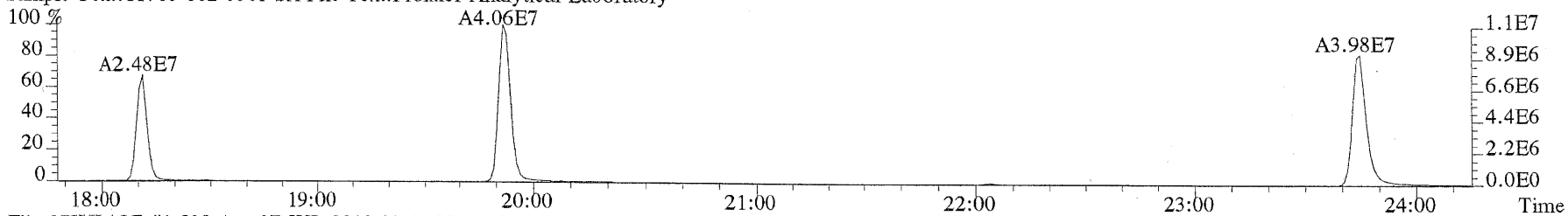
File:27JUL18Z #1-520 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



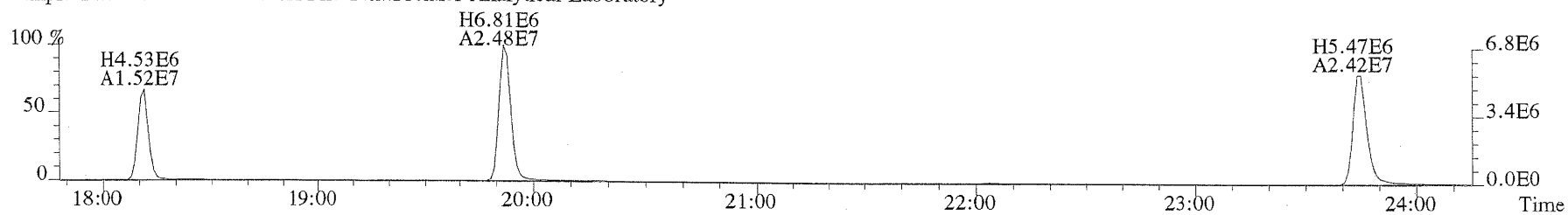
File:27JUL18Z #1-520 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



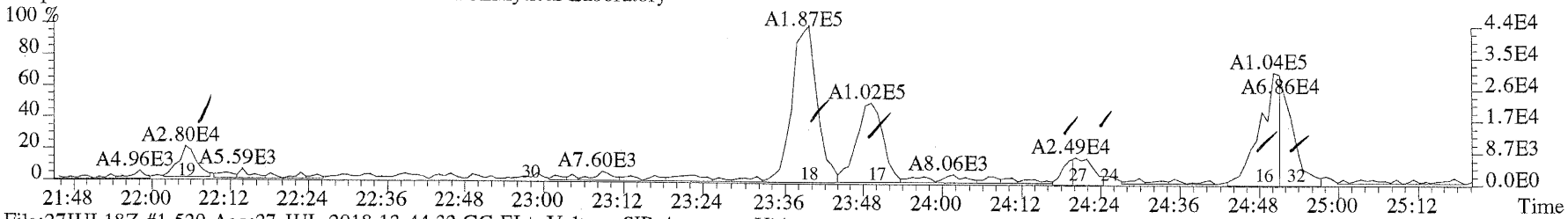
File:27JUL18Z #1-520 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



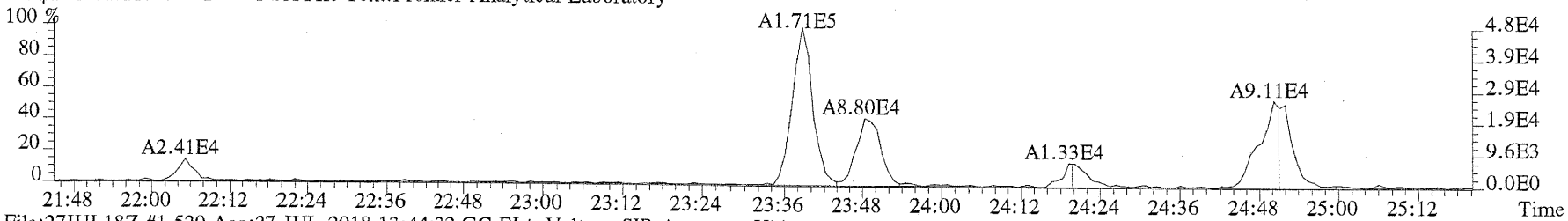
File:27JUL18Z #1-520 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



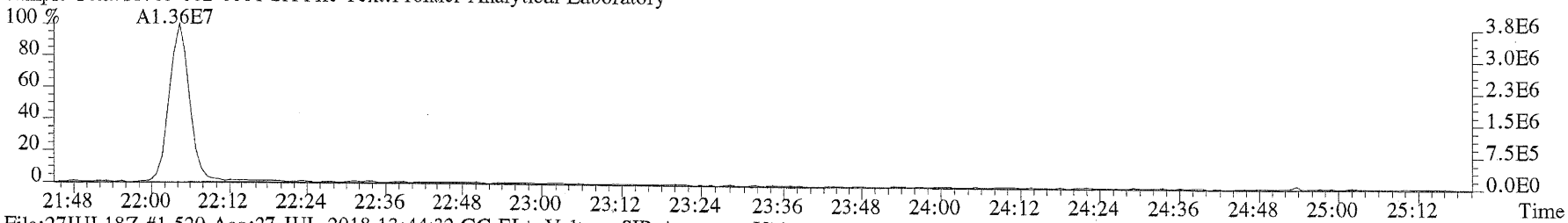
File:27JUL18Z #1-520 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



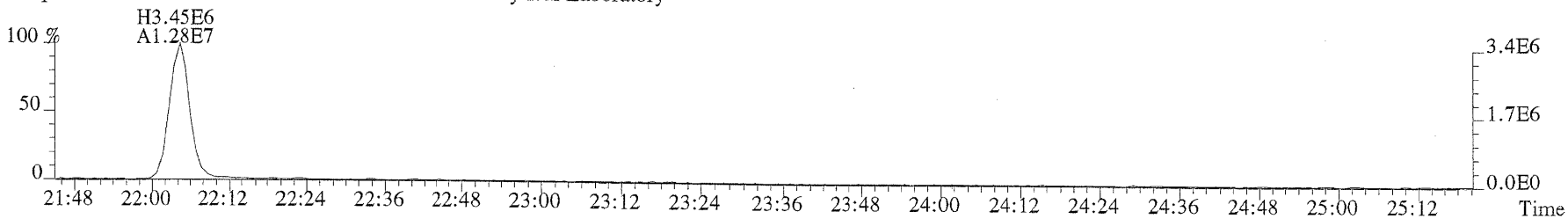
File:27JUL18Z #1-520 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



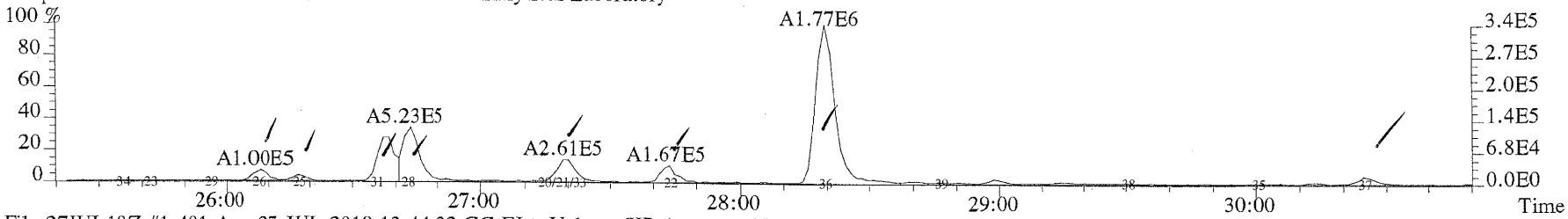
File:27JUL18Z #1-520 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



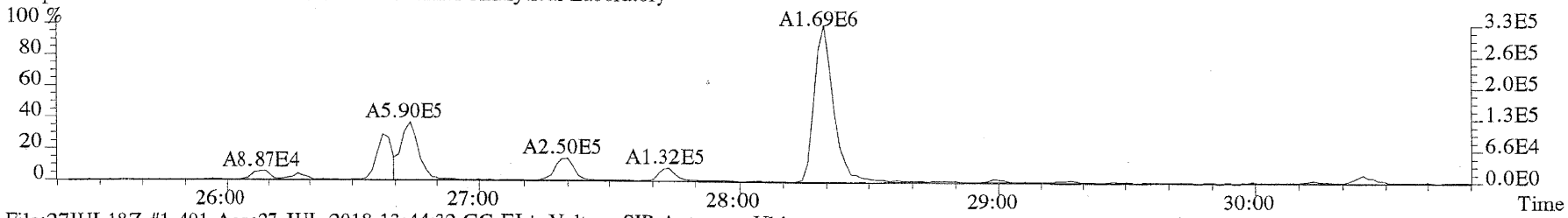
File:27JUL18Z #1-520 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



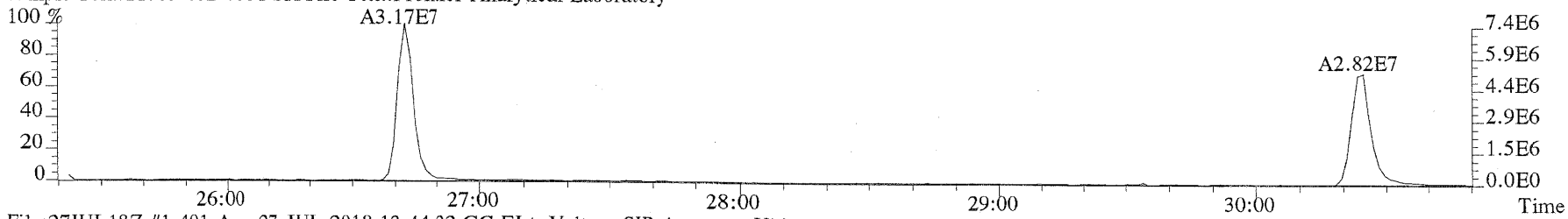
File:27JUL18Z #1-401 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



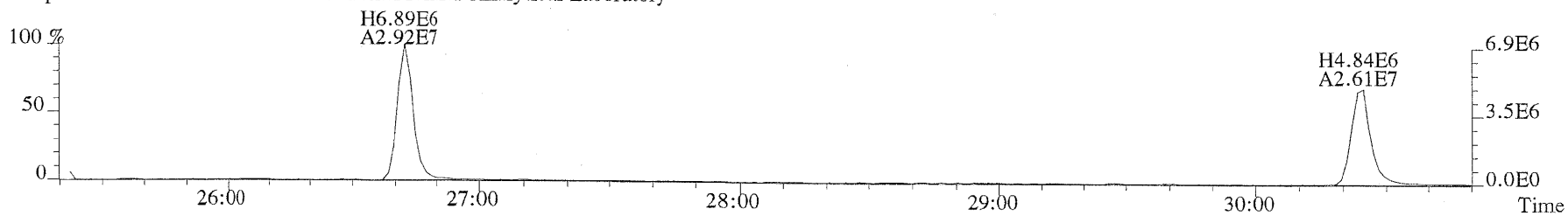
File:27JUL18Z #1-401 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



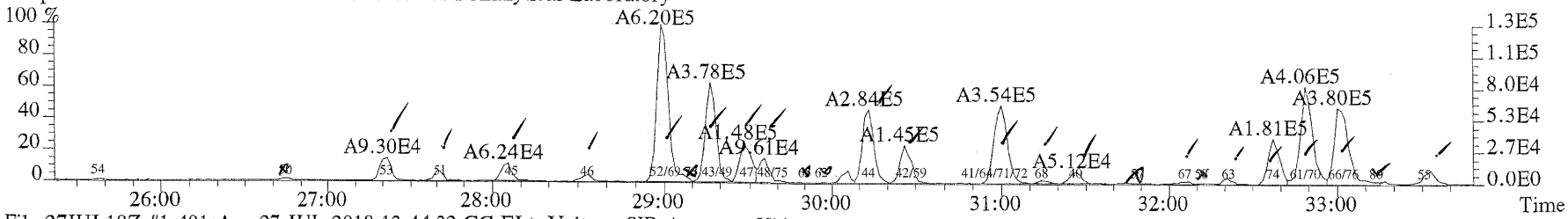
File:27JUL18Z #1-401 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



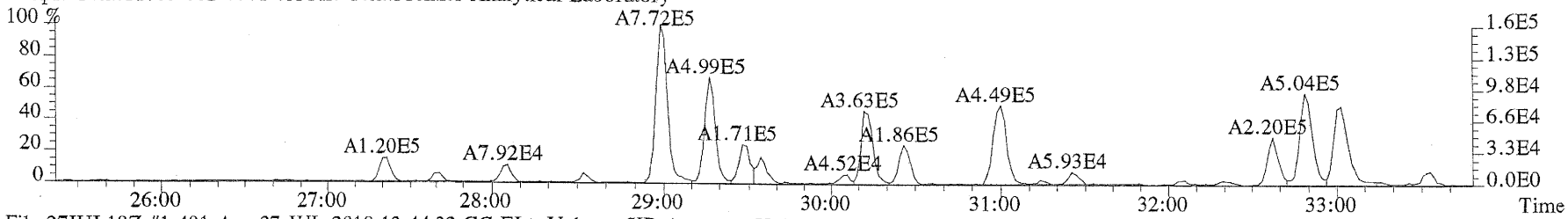
File:27JUL18Z #1-401 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



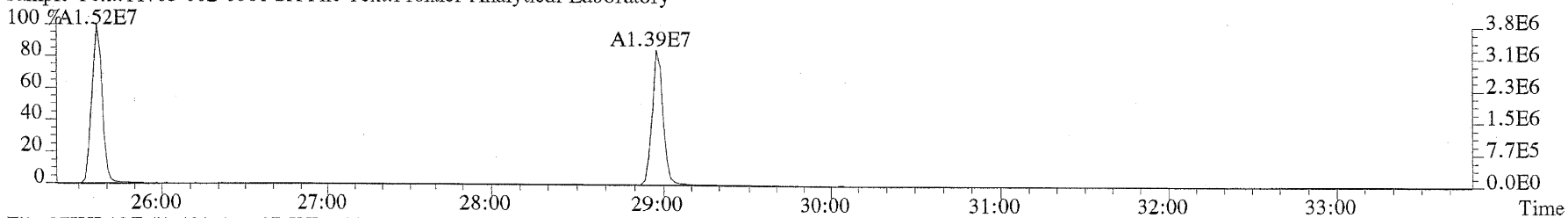
File:27JUL18Z #1-401 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



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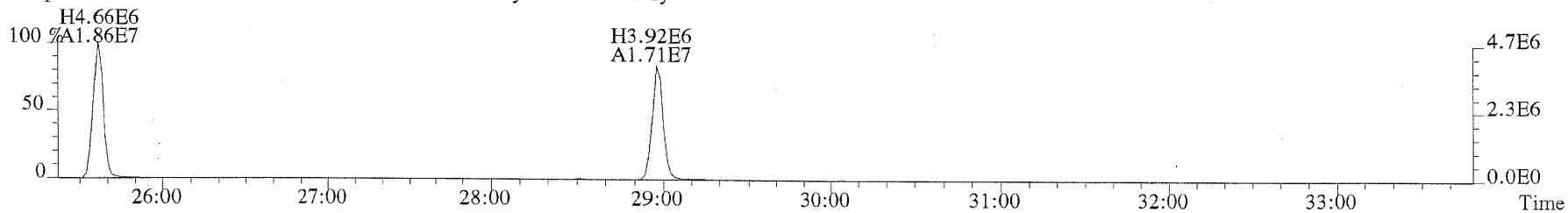
303.9597 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



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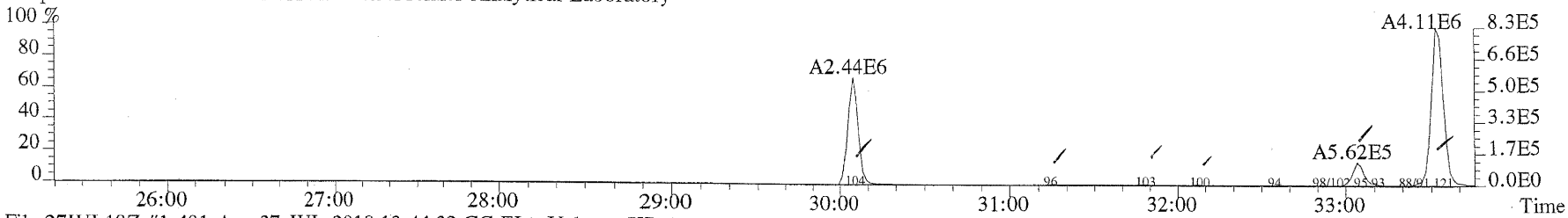
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



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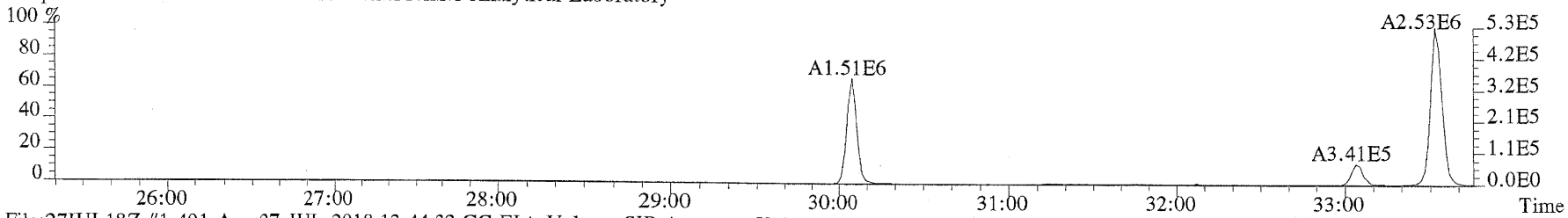
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



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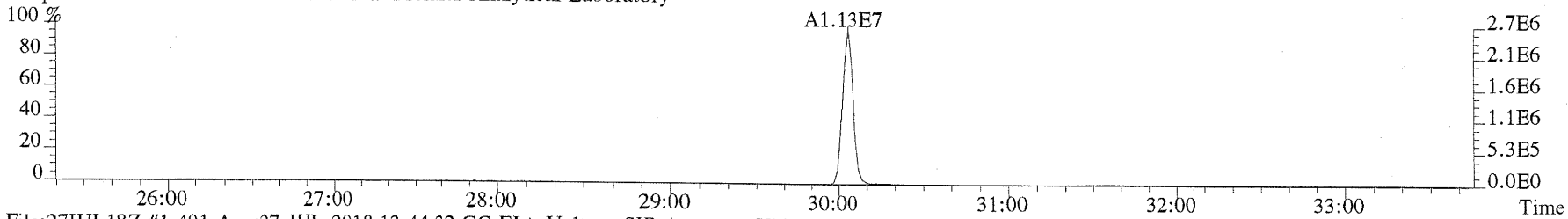
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



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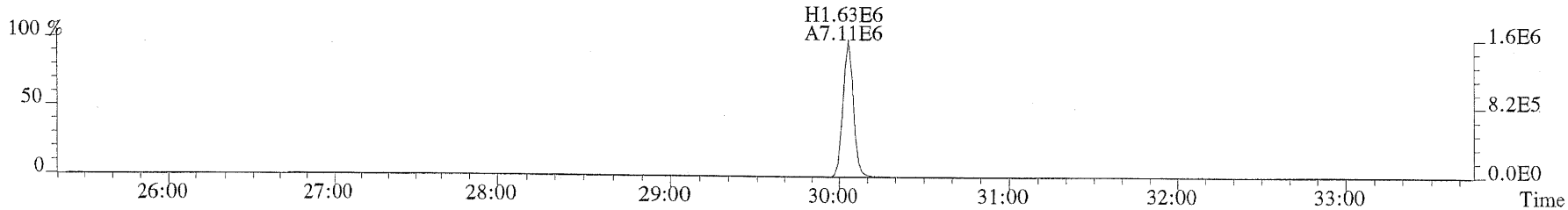
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-183 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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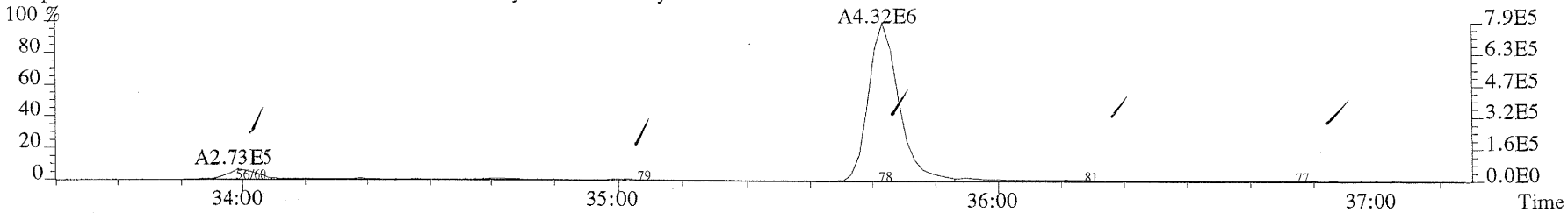

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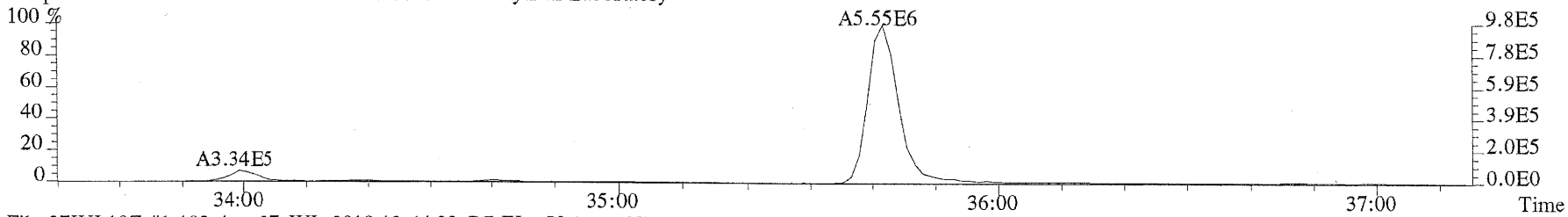
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



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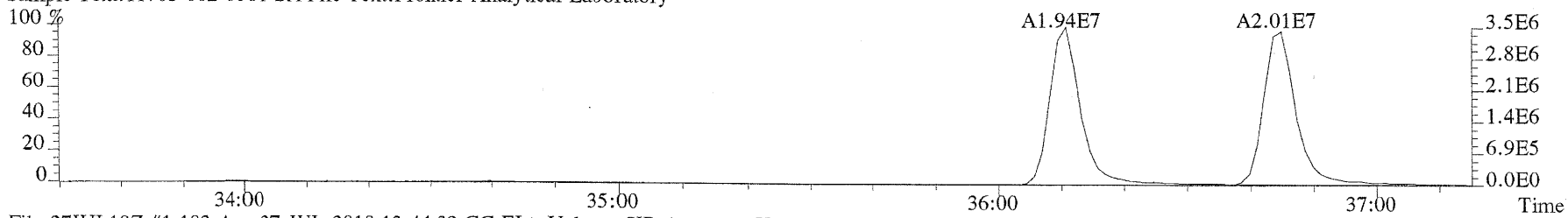
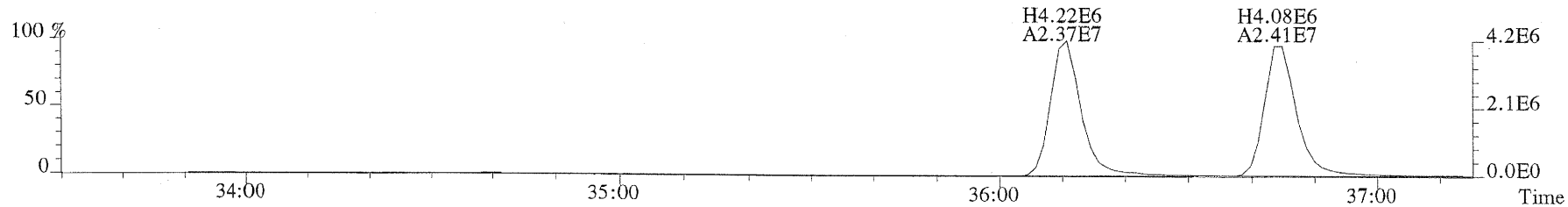
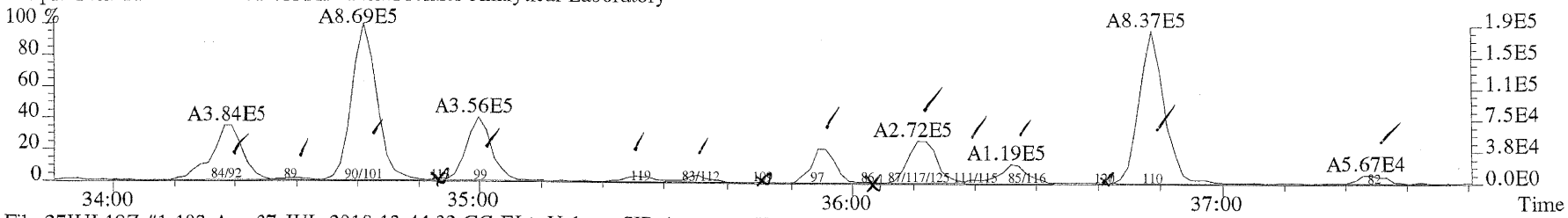
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



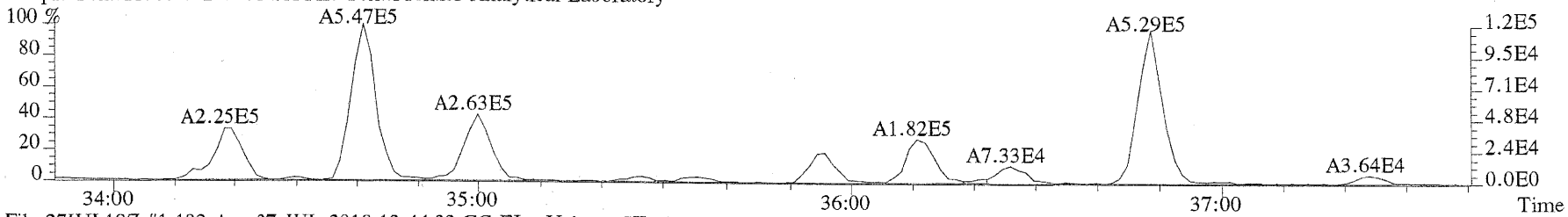
File:27JUL18Z #1-183 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



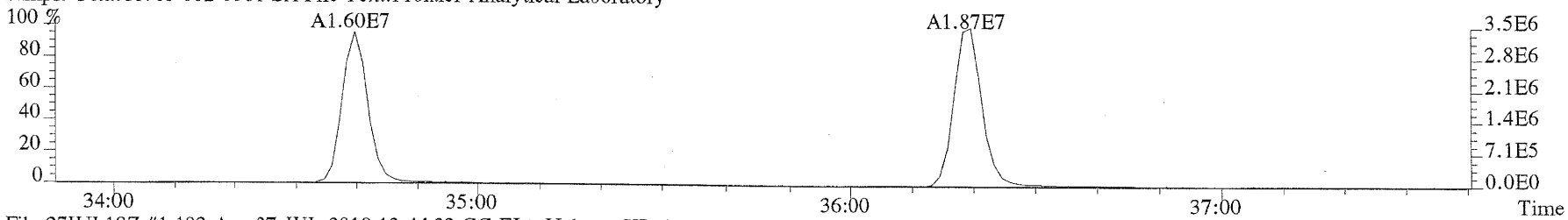
File:27JUL18Z #1-183 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-183 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-183 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



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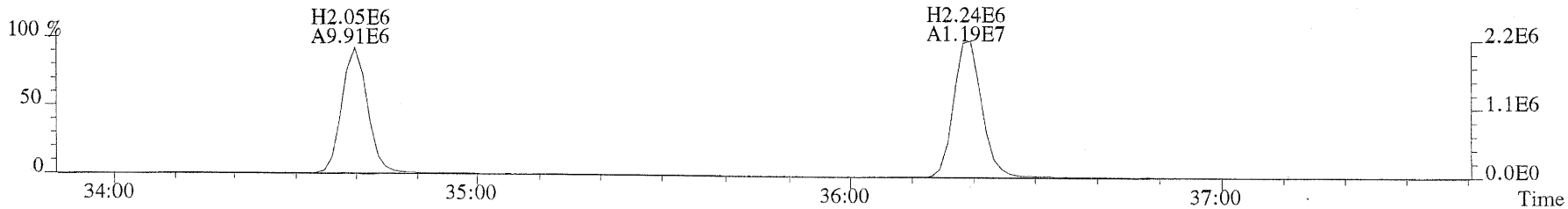
339.9178 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



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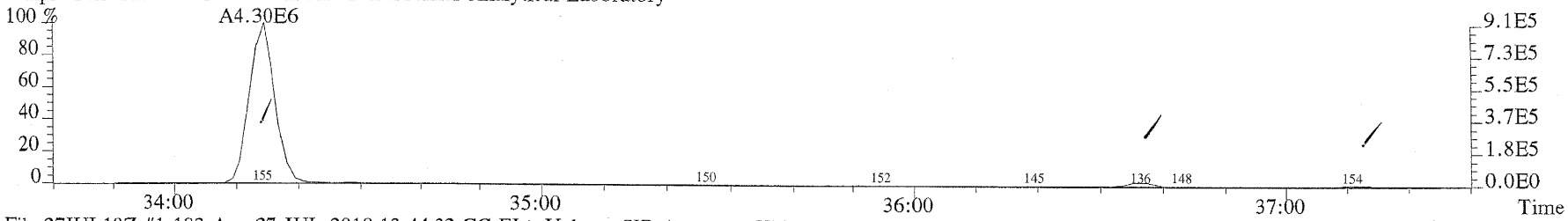
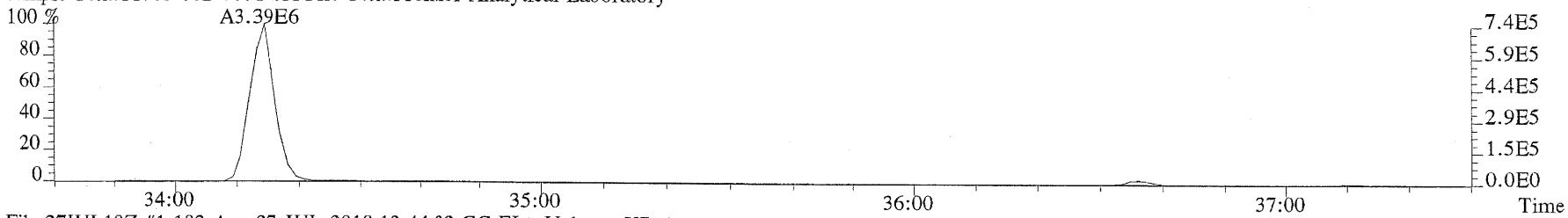
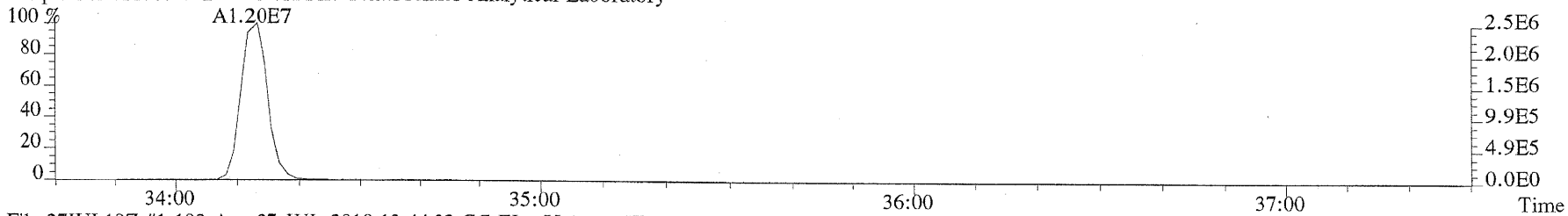
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-183 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-183 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



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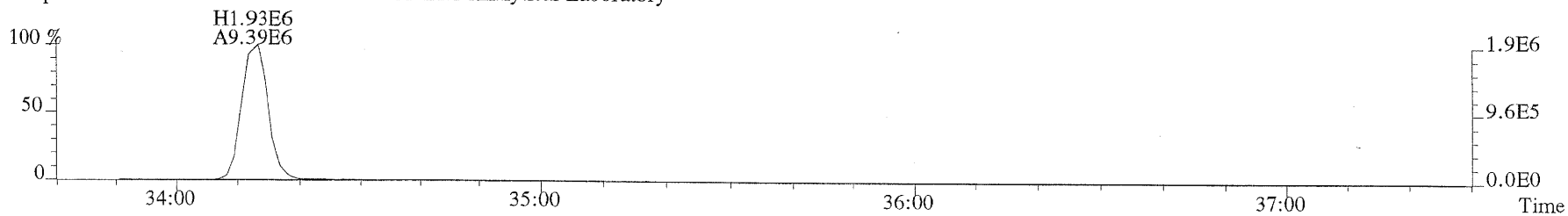
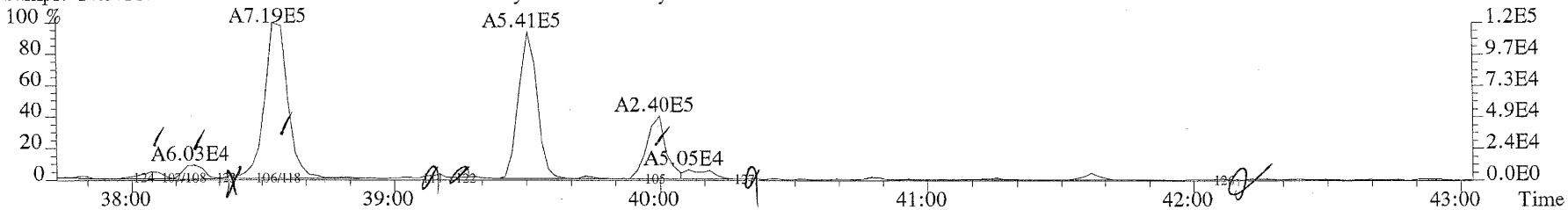
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-404 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-404 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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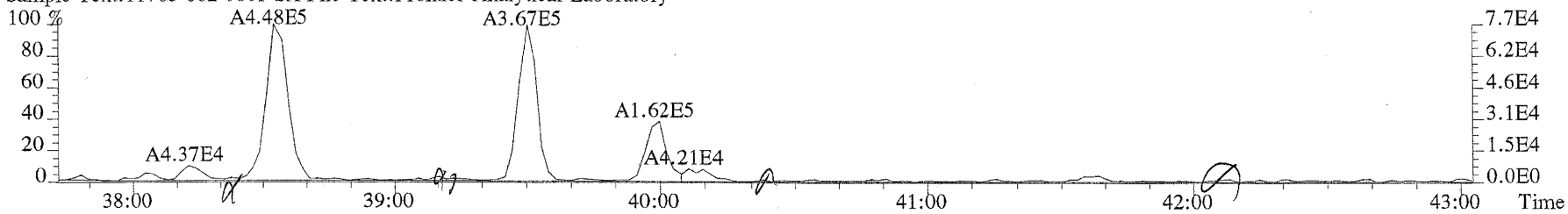

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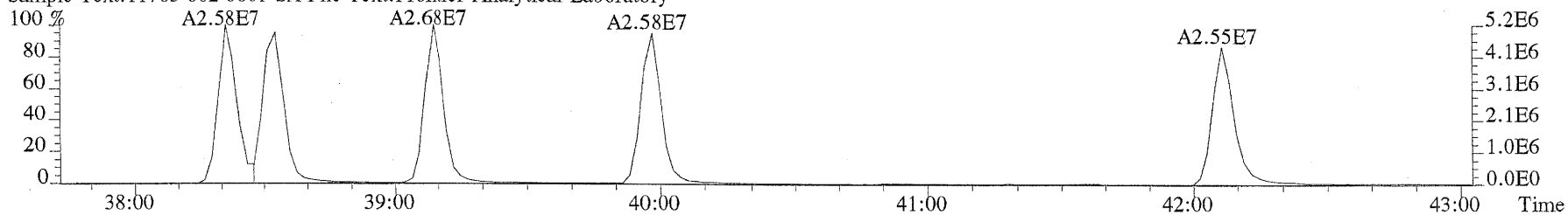
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



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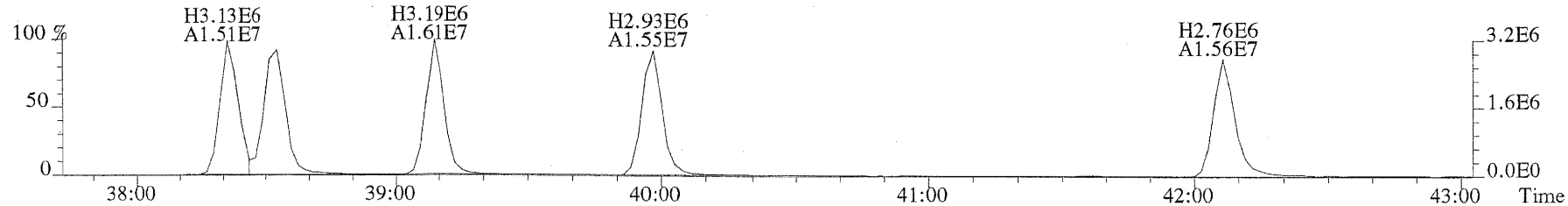
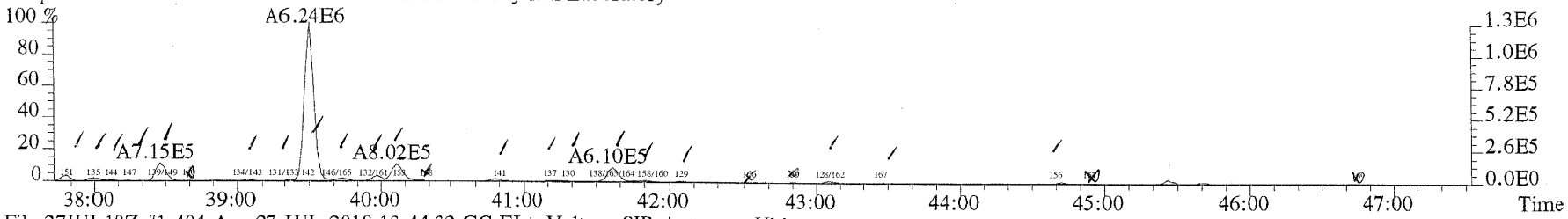
339.9178 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-404 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



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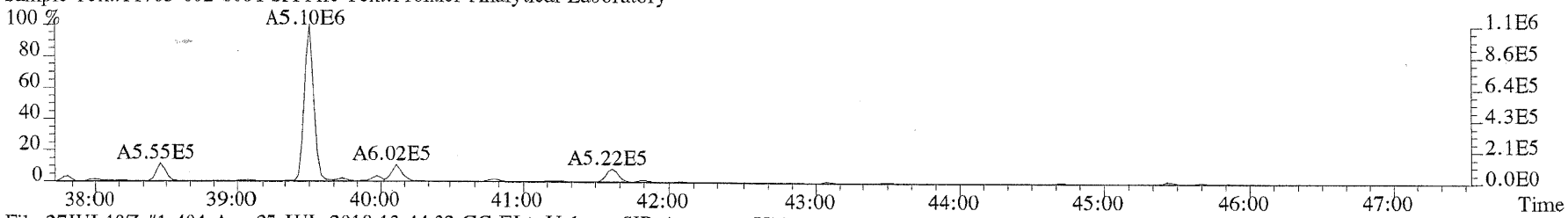
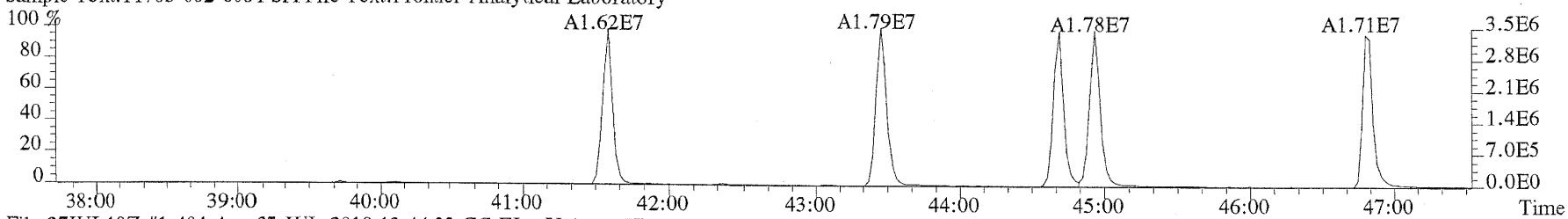
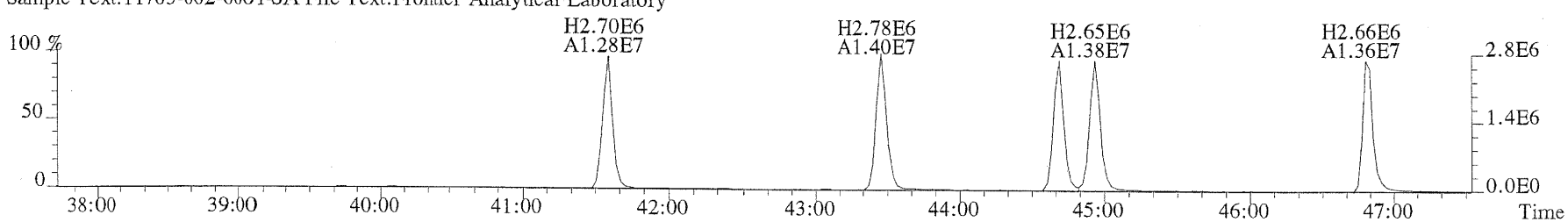
361.8385 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



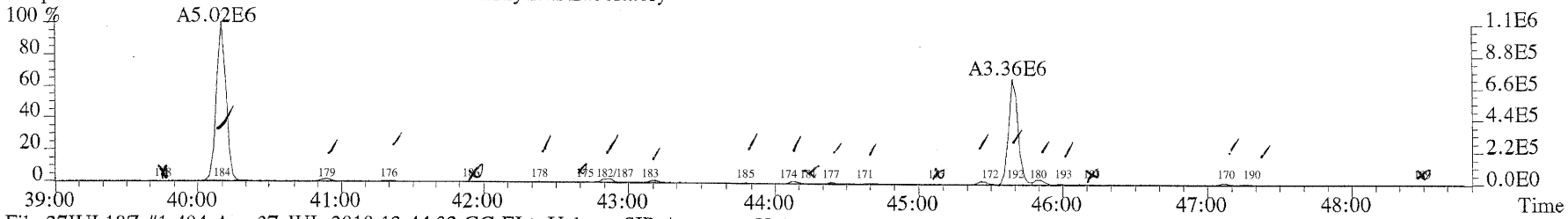
File:27JUL18Z #1-404 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



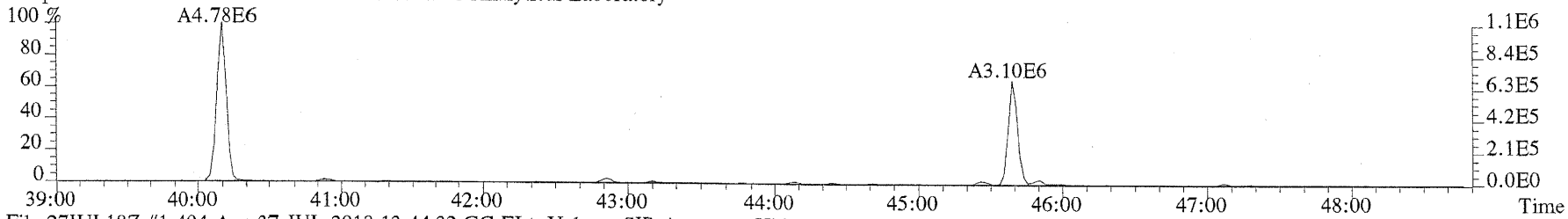
File:27JUL18Z #1-404 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-404 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-404 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



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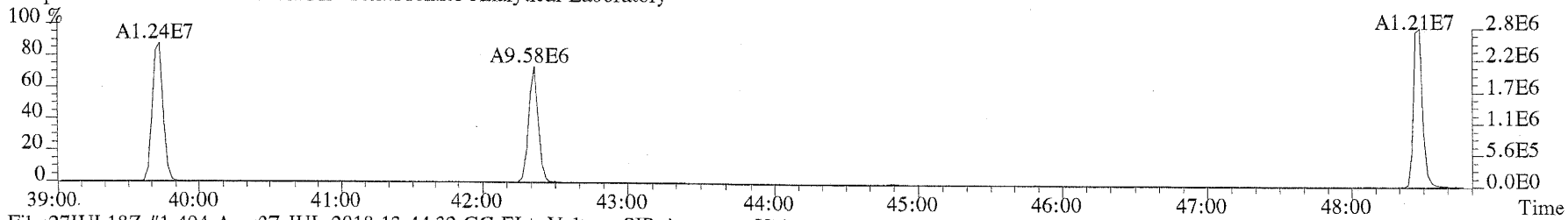
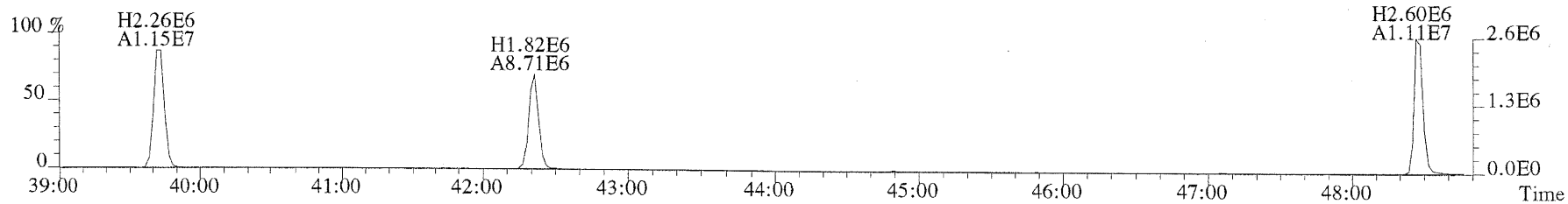
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-404 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



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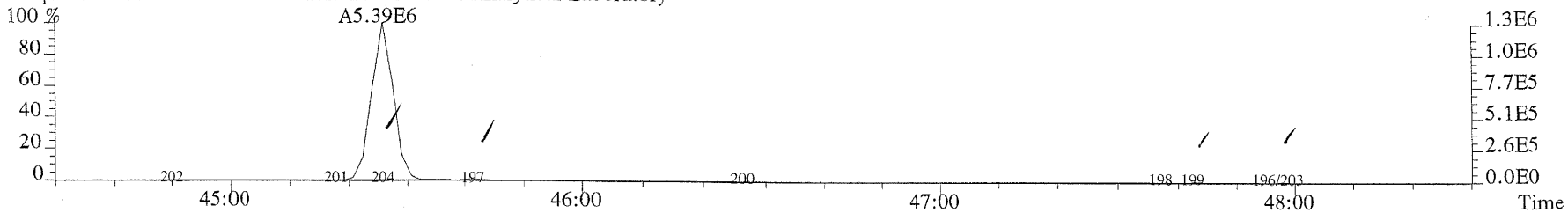
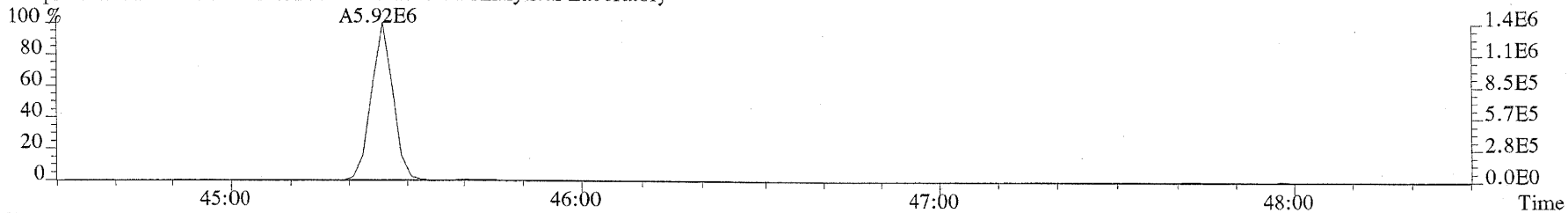
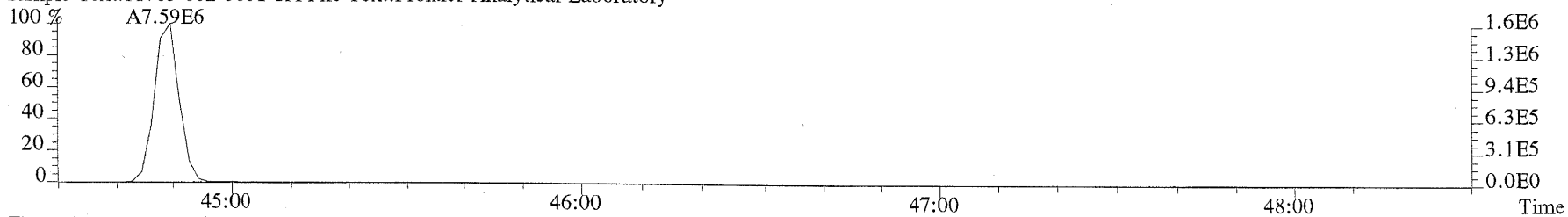
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



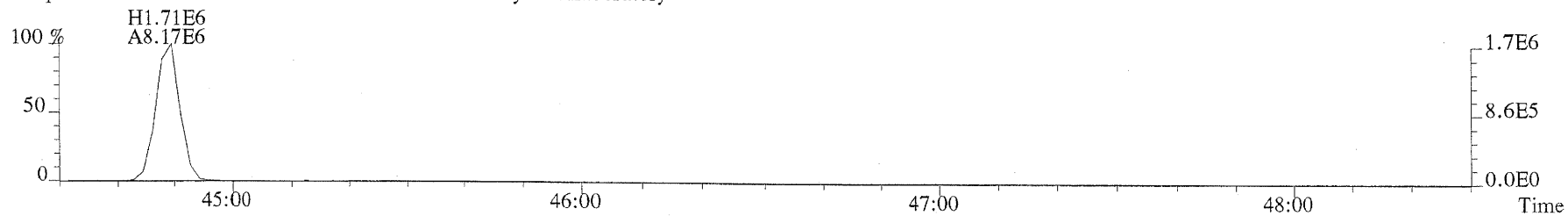
File:27JUL18Z #1-404 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



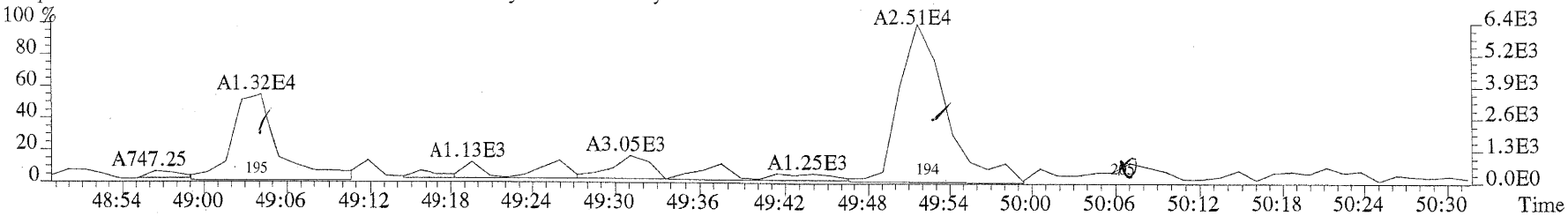
File:27JUL18Z #1-404 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



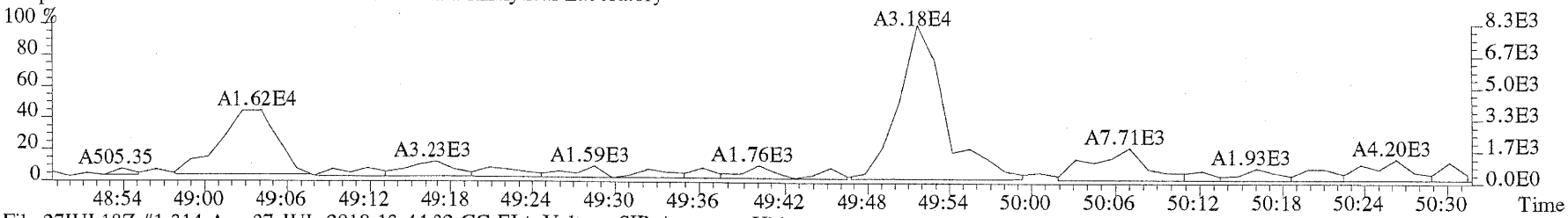
File:27JUL18Z #1-404 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



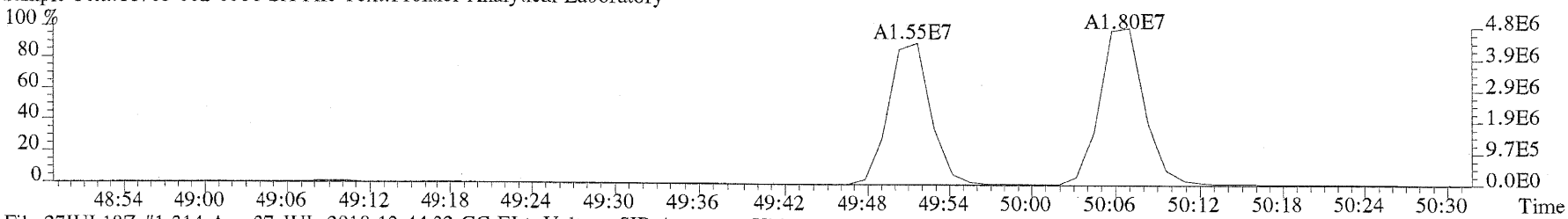
File:27JUL18Z #1-314 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



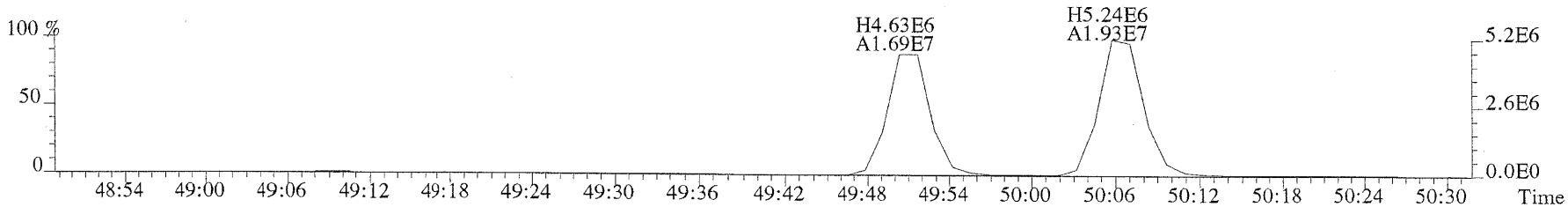
File:27JUL18Z #1-314 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



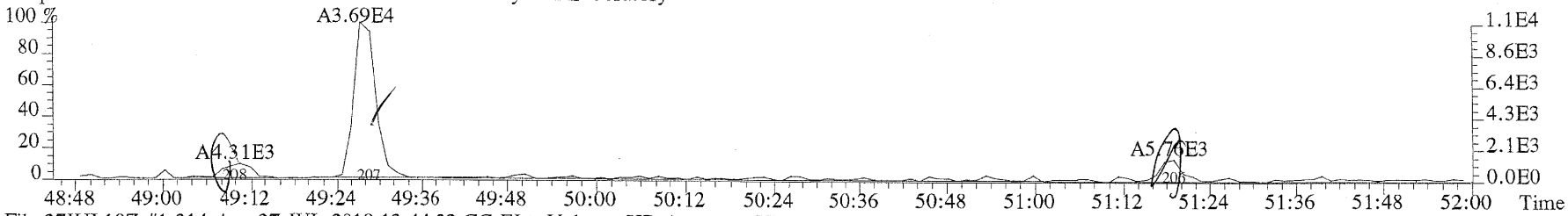
File:27JUL18Z #1-314 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



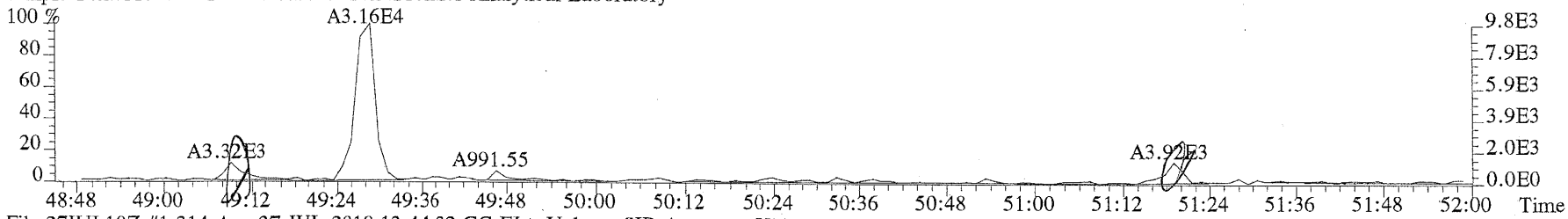
File:27JUL18Z #1-314 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



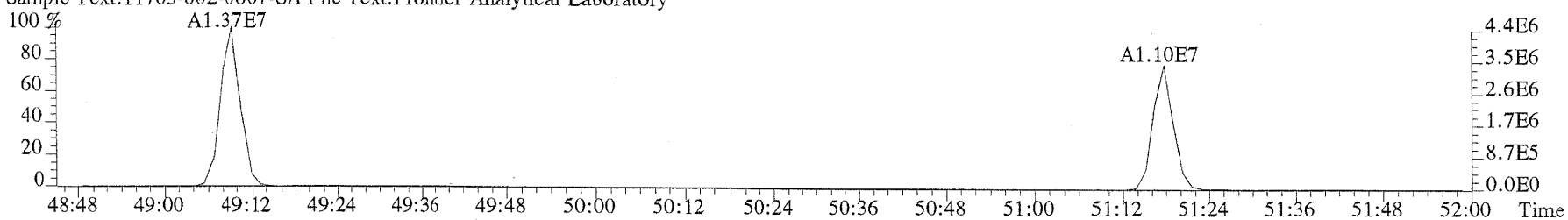
File:27JUL18Z #1-314 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



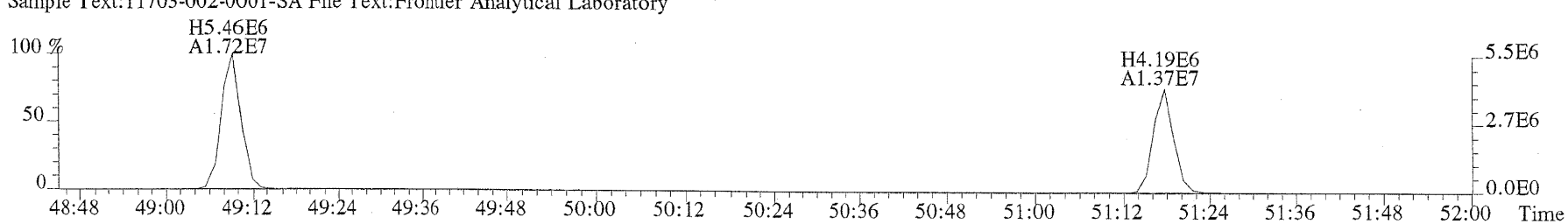
File:27JUL18Z #1-314 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



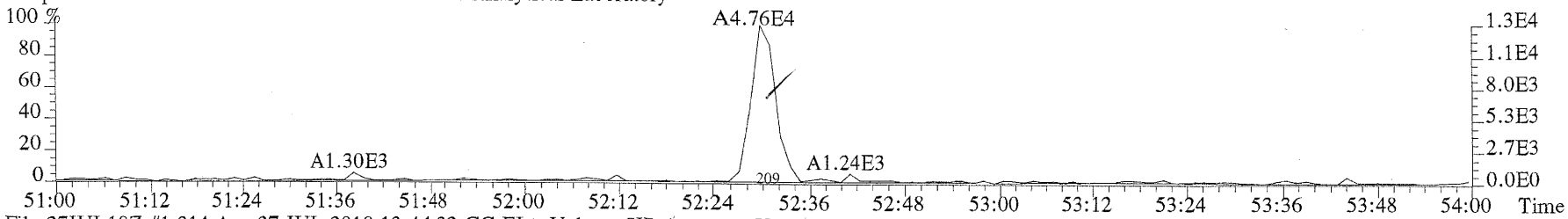
File:27JUL18Z #1-314 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



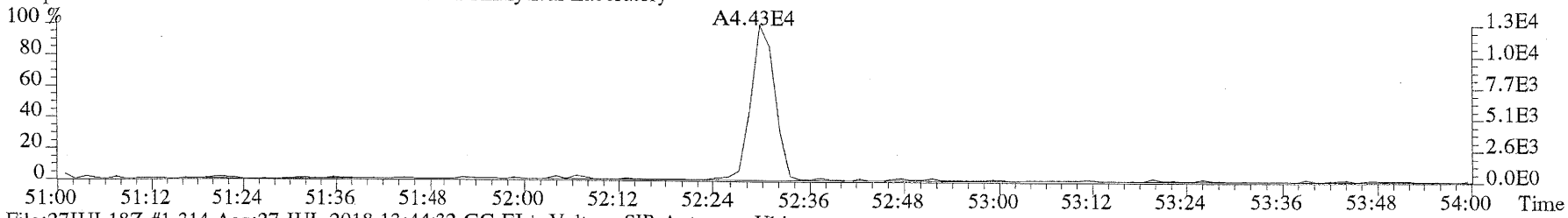
File:27JUL18Z #1-314 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



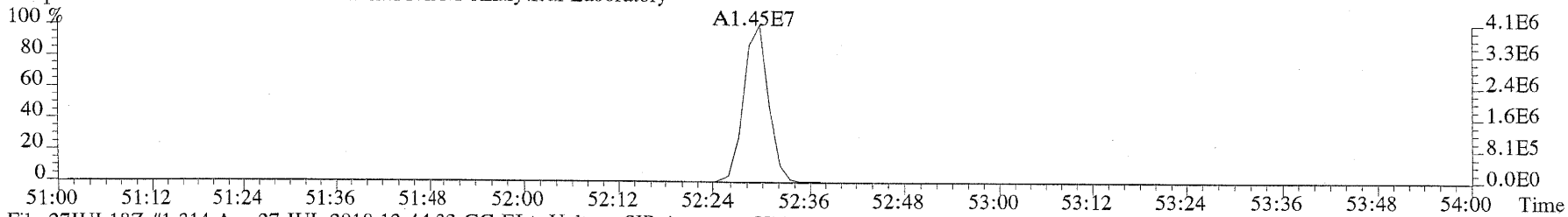
File:27JUL18Z #1-314 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



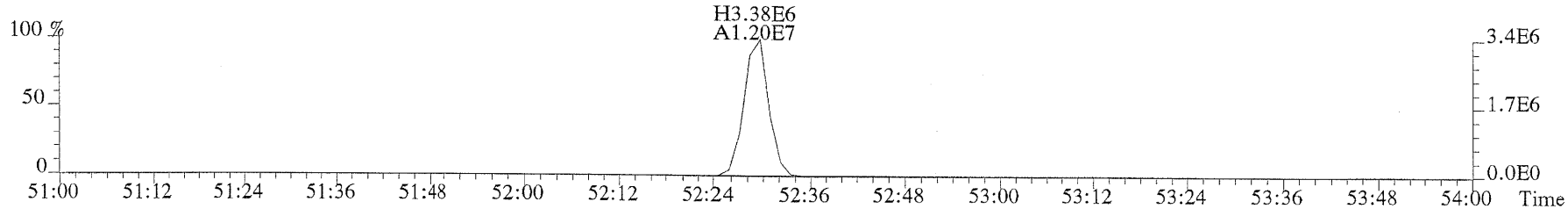
File:27JUL18Z #1-314 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 13:44:32 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11703-003-0001-SA Filename: 27JUL18Z Sam:7 Acquired: 27-JUL-18 14:42:54 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SC-ENR+AC-CC-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	* n	NotFnd	1.17	*		1460	1170	3.28			
13C-PCB-1	5.19e+07	3.17 y	14:30	0.92	8740					87.4	1.30e+07	4.14e+06
PCB-2	*	* n	NotFnd	1.05	*		1460	1170	3.88			
PCB-3	*	* n	NotFnd	1.16	*		1460	1170	3.70			
13C-PCB-3	5.14e+07	3.22 y	16:57	0.93	8560					85.6	1.19e+07	3.57e+06
PCB-4	*	* n	NotFnd	1.42	*		814	2580	4.98			
PCB-10	*	* n	NotFnd	1.21	*		814	2580	5.20			
13C-PCB-4	3.96e+07	1.60 y	18:10	0.68	9090					90.9	7.34e+06	4.63e+06
PCB-9	*	* n	NotFnd	1.40	*		814	2580	4.50			
PCB-7	*	* n	NotFnd	1.40	*		814	2580	4.51			
PCB-6	*	* n	NotFnd	1.33	*		814	2580	4.74			
PCB-8	2.53e+05	1.43 y	20:53	1.35	35.9		-	-	*			
PCB-5	*	* n	NotFnd	1.35	*		814	2580	4.67			
PCB-14	1.11e+06	1.67 y	21:57	1.31	163		-	-	*			
PCB-11	2.72e+05	1.41 y	23:05	1.24	42.1		-	-	*			
PCB-13	*	* n	NotFnd	1.32	*		814	2580	4.78			
PCB-12	*	* n	NotFnd	1.30	*		814	2580	4.86			
PCB-15	1.69e+05	1.43 y	23:44	1.26	20.8		-	-	*			
13C-PCB-15	6.44e+07	1.65 y	23:44	1.00	9990					99.9	9.05e+06	5.48e+06
PCB-19	4.81e+04	1.18 y	22:05	1.19	15.8	J	-	-	*			
PCB-30	*	* n	NotFnd	1.63	*		660	408	2.36			
PCB-18	3.54e+05	1.14 y	23:39	1.14	121		-	-	*			
PCB-17	1.87e+05	0.96 y	23:48	1.23	59.1		-	-	*			
PCB-27	5.00e+04	1.10 y	24:20	1.49	13.1	J	-	-	*			
PCB-24	2.45e+04	1.19 y	24:22	1.69	5.67	J	-	-	*			
PCB-16	1.18e+05	1.17 y	24:49	1.36	33.9		-	-	*			
PCB-32	1.77e+05	1.16 y	24:50	1.41	49.2		-	-	*			
13C-PCB-19	2.56e+07	1.08 y	22:03	0.44	8970					89.7	3.63e+06	3.32e+06
13C-PCB-9	6.44e+07	1.62 y	19:52	-	56.3							
PCB-34	*	* n	NotFnd	1.03	*		1290	1060	5.55			
PCB-23	*	* n	NotFnd	1.10	*		1290	1060	5.18			
PCB-29	*	* n	NotFnd	1.14	*		1290	1060	4.98			
PCB-26	2.11e+05	1.05 y	26:07	1.04	36.6		-	-	*			
PCB-25	1.09e+05	1.18 y	26:16	1.36	14.6	J	-	-	*			
PCB-31	7.29e+05	1.02 y	26:37	1.12	118		-	-	*			
PCB-28	1.04e+06	1.03 y	26:43	1.44	132		-	-	*			
PCB-20	4.57e+05	1.06 y	27:19	1.24	67.0		-	-	*		Co-elute PCB 21/33	
PCB-21	4.57e+05	1.06 y	27:19	1.24	67.0		-	-	*		Co-elute PCB 20/33	
PCB-33	4.57e+05	1.06 y	27:19	1.24	67.0		-	-	*		Co-elute PCB 20/21	
PCB-22	2.76e+05	1.13 y	27:43	1.24	40.3		-	-	*			
PCB-36	2.25e+06	1.09 y	28:20	1.13	362		-	-	*			
PCB-39	*	* n	NotFnd	1.16	*		1290	1060	4.92			
PCB-38	*	* n	NotFnd	1.12	*		1290	1060	5.10			
PCB-35	*	* n	NotFnd	1.08	*		1290	1060	5.29			
PCB-37	1.66e+05	0.97 y	30:23	1.22	24.7		-	-	*			
13C-PCB-37	5.51e+07	1.11 y	30:23	1.72	10300					103	5.37e+06	4.92e+06

PCB-54	*	*	n	NotFnd	1.21	*		528	980	3.90				
PCB-50	*	*	n	NotFnd	0.91	*		528	980	5.19				
PCB-53	1.76e+05	0.73	y	27:20	0.93	56.5		-	-	*				
PCB-51	7.24e+04	0.66	y	27:40	0.95	22.7		-	-	*				
PCB-45	1.27e+05	0.83	y	28:04	0.79	47.8		-	-	*				
PCB-46	5.28e+04	0.71	y	28:32	0.78	20.2		-	-	*				
PCB-52	1.21e+06	0.77	y	28:59	1.13	318		-	-	*		Co-elute PCB 69		
PCB-69	1.21e+06	0.77	y	28:59	1.13	318		-	-	*		Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.11	*		528	980	4.24				
PCB-43	7.45e+05	0.85	y	29:15	0.88	252		-	-	*		Co-elute PCB 49		
PCB-49	7.45e+05	0.85	y	29:15	0.88	252		-	-	*		Co-elute PCB 43		
PCB-47	2.91e+05	0.78	y	29:28	1.04	83.4		-	-	*				
PCB-48	1.81e+05	0.81	y	29:34	1.14	46.9		-	-	*		Co-elute PCB 75		
PCB-75	1.81e+05	0.81	y	29:34	1.14	46.9		-	-	*		Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.15	*		528	980	4.09				
PCB-62	*	*	n	NotFnd	1.10	*		528	980	4.29				
PCB-44	5.59e+05	0.78	y	30:13	0.80	206		-	-	*				
PCB-42	3.01e+05	0.88	y	30:26	1.07	83.6		-	-	*		Co-elute PCB 59		
PCB-59	3.01e+05	0.88	y	30:26	1.07	83.6		-	-	*		Co-elute PCB 42		
PCB-72	6.85e+05	0.80	y	31:00	1.14	179		-	-	*		Co-elute PCB 41/71/64		
PCB-41	6.85e+05	0.80	y	31:00	1.14	179		-	-	*		Co-elute PCB 72/71/64		
PCB-71	6.85e+05	0.80	y	31:00	1.14	179		-	-	*		Co-elute PCB 72/41/64		
PCB-64	6.85e+05	0.80	y	31:00	1.14	179		-	-	*		Co-elute PCB 72/41/71		
PCB-68	3.23e+04	0.85	y	31:14	1.22	7.86	J	-	-	*				
PCB-40	9.98e+04	0.80	y	31:25	0.70	42.4		-	-	*				
PCB-57	*	*	n	NotFnd	1.10	*		528	980	4.28				
PCB-67	3.83e+04	0.82	y	32:06	1.18	9.61	J	-	-	*				
PCB-58	*	*	n	NotFnd	1.07	*		528	980	4.38				
PCB-63	3.57e+04	0.82	y	32:22	1.12	9.45	J	-	-	*				
PCB-74	3.63e+05	0.76	y	32:37	1.25	86.0		-	-	*				
PCB-61	7.69e+05	0.77	y	32:49	1.19	192		-	-	*		Co-elute PCB 70		
PCB-70	7.69e+05	0.77	y	32:49	1.19	192		-	-	*		Co-elute PCB 61		
PCB-76	7.18e+05	0.74	y	33:01	1.18	181		-	-	*		Co-elute PCB 66		
PCB-66	7.18e+05	0.74	y	33:01	1.18	181		-	-	*		Co-elute PCB 76		
PCB-80	3.31e+04	0.86	y	33:12	1.28	7.66	J	-	-	*				
PCB-55	1.06e+05	0.71	y	33:32	1.17	26.8		-	-	*				
13C-PCB-54	3.37e+07	0.81	y	25:36	1.14	9440					94.4	3.62e+06	4.38e+06	
PCB-104	2.51e+06	1.55	y	30:03	1.26	1030		-	-	*				
PCB-96	*	*	n	NotFnd	1.11	*		392	424	4.29				
PCB-103	2.84e+04	1.48	y	31:46	0.97	15.2	J	-	-	*				
PCB-100	*	*	n	NotFnd	0.97	*		392	424	4.92				
PCB-94	*	*	n	NotFnd	0.82	*		392	424	5.80				
PCB-98	*	*	n	NotFnd	0.44	*		392	424	10.7		Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.44	*		392	424	10.7		Co-elute PCB 98		
PCB-95	7.76e+05	1.65	y	33:04	0.89	454		-	-	*				
PCB-93	*	*	n	NotFnd	0.82	*		392	424	5.85				
PCB-88	*	*	n	NotFnd	0.91	*		392	424	5.27		Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	0.91	*		392	424	5.27		Co-elute PCB 88		
PCB-121	4.36e+06	1.63	y	33:32	1.08	2090		-	-	*				
13C-PCB-104	1.93e+07	1.59	y	30:02	0.64	9680					96.8	2.65e+06	1.64e+06	
13C-PCB-28	6.18e+07	1.06	y	26:42	1.96	10100					101	6.94e+06	6.39e+06	
13C-PCB-52	3.13e+07	0.80	y	28:57	-	56.2								

PCB-56	4.89e+05	0.82	y	33:59	1.22	92.7		-	-	*			Co-elute PCB 60
PCB-60	4.89e+05	0.82	y	33:59	1.22	92.7		-	-	*			Co-elute PCB 56
PCB-79	2.56e+04	0.85	y	35:00	1.22	4.87	J	-	-	*			
PCB-78	6.33e+06	0.81	y	35:40	1.17	1250		-	-	*			
PCB-81	6.46e+04	0.77	y	36:10	1.24	12.2	J	-	-	*			
13C-PCB-81	4.25e+07	0.82	y	36:10	1.62	9950					99.5	3.27e+06	4.11e+06
PCB-77	7.49e+04	0.88	y	36:44	1.18	14.6	J	-	-	*			
13C-PCB-77	4.36e+07	0.82	y	36:44	1.62	10200					102	3.28e+06	4.13e+06
PCB-155	5.09e+06	1.27	y	34:13	1.16	2090		-	-	*			
PCB-150	*	*	n	NotFnd	1.03	*		452	316	4.04			
PCB-152	*	*	n	NotFnd	0.97	*		452	316	4.27			
PCB-145	*	*	n	NotFnd	1.00	*		452	316	4.17			
PCB-136	1.59e+05	1.11	y	36:35	0.89	84.5		-	-	*			
PCB-148	*	*	n	NotFnd	0.83	*		452	316	5.03			
PCB-154	3.44e+04	1.10	y	37:09	0.88	18.5	J	-	-	*			
13C-PCB-155	2.11e+07	1.29	y	34:12	0.86	9300					93.0	2.60e+06	2.02e+06
13C-PCB-111	2.98e+07	1.62	y	36:18	1.16	9700					97.0	3.58e+06	2.26e+06
13C-PCB-101	2.64e+07	1.61	y	34:39	-	59.9							
PCB-84	4.84e+05	1.47	y	34:18	0.65	181		-	-	*			Co-elute PCB 92
PCB-92	4.84e+05	1.47	y	34:18	0.65	181		-	-	*			Co-elute PCB 84
PCB-89	1.52e+04	1.55	y	34:26	0.62	5.92	J	-	-	*			
PCB-90	1.16e+06	1.57	y	34:41	0.71	396		-	-	*			Co-elute PCB 101
PCB-101	1.16e+06	1.57	y	34:41	0.71	396		-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.75	*		456	423	3.86			
PCB-99	4.90e+05	1.73	y	35:00	0.84	141		-	-	*			
PCB-119	4.30e+04	1.32	y	35:25	0.90	11.6	J	-	-	*			
PCB-83	4.66e+04	1.54	y	35:33	0.70	16.1	J	-	-	*			Co-elute PCB 112
PCB-112	4.66e+04	1.54	y	35:33	0.70	16.1	J	-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.85	*		456	423	3.38			
PCB-97	2.46e+05	1.50	y	35:56	0.78	76.6		-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*		456	423	4.39			
PCB-125	3.84e+05	1.64	y	36:11	0.80	117		-	-	*			Co-elute PCB 87/117
PCB-87	3.84e+05	1.64	y	36:11	0.80	117		-	-	*			Co-elute PCB 125/117
PCB-117	3.84e+05	1.64	y	36:11	0.80	117		-	-	*			Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	0.98	*		456	423	2.96			Co-elute PCB 115
PCB-115	*	*	n	NotFnd	0.98	*		456	423	2.96			Co-elute PCB 111
PCB-85	1.49e+05	1.48	y	36:26	0.77	47.1		-	-	*			Co-elute PCB 116
PCB-116	1.49e+05	1.48	y	36:26	0.77	47.1		-	-	*			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.89	*		456	423	3.23			
PCB-110	1.15e+06	1.67	y	36:49	0.92	302		-	-	*			
PCB-82	8.52e+04	1.33	y	37:23	0.51	40.3		-	-	*			
PCB-124	7.30e+04	1.70	y	38:05	1.11	16.0	J	-	-	*			
PCB-108	7.97e+04	1.41	y	38:13	1.18	16.5	J	-	-	*			Co-elute PCB 107
PCB-107	7.97e+04	1.41	y	38:13	1.18	16.5	J	-	-	*			Co-elute PCB 108
PCB-123	3.29e+04	1.40	y	38:24	1.37	6.26	J	-	-	*			
13C-PCB-123	3.82e+07	1.62	y	38:21	1.46	9450					94.5	4.80e+06	2.94e+06
PCB-118	9.41e+05	1.49	y	38:33	1.09	198		-	-	*			Co-elute PCB 106
PCB-106	9.41e+05	1.49	y	38:33	1.09	198		-	-	*			Co-elute PCB 118
13C-PCB-118	4.36e+07	1.64	y	38:31	1.59	9930					99.3	4.93e+06	3.03e+06
PCB-114	2.97e+04	1.48	y	39:09	1.18	6.01	J	-	-	*			
13C-PCB-114	4.20e+07	1.61	y	39:09	1.51	10100					101	4.79e+06	2.95e+06
PCB-122	*	*	n	NotFnd	1.15	*		616	660	3.64			
PCB-105	3.23e+05	1.43	y	39:58	1.14	69.3		-	-	*			
13C-PCB-105	4.08e+07	1.68	y	39:57	1.47	10000					100	4.45e+06	2.62e+06

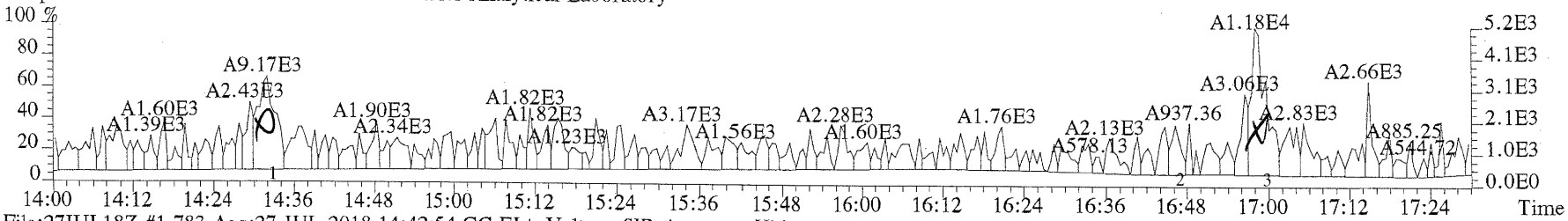
PCB-127	*	*	n	NotFnd	1.02	*		616	660	4.13			
PCB-126	*	*	n	NotFnd	1.18	*		616	660	4.29			
13C-PCB-126	3.90e+07	1.63	y	42:07	1.39	10200					102	3.93e+06	2.38e+06
PCB-151	2.94e+05	1.24	y	37:47	0.89	112		-	-	*			
PCB-135	1.44e+05	1.28	y	37:58	0.90	53.9		-	-	*			
PCB-144	7.21e+04	1.16	y	38:05	0.85	28.8		-	-	*			
PCB-147	2.12e+04	1.36	y	38:13	0.90	7.97	J	-	-	*			
PCB-139	9.95e+05	1.25	y	38:28	0.95	353		-	-	*		Co-elute PCB 149	
PCB-149	9.95e+05	1.25	y	38:28	0.95	353		-	-	*		Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.92	*		592	532	5.52			
PCB-143	4.51e+04	1.11	y	39:04	0.87	17.5	J	-	-	*		Co-elute PCB 134	
PCB-134	4.51e+04	1.11	y	39:04	0.87	17.5	J	-	-	*		Co-elute PCB 143	
PCB-131	2.23e+04	1.06	y	39:19	0.89	8.43	J	-	-	*		Co-elute PCB 133	
PCB-133	2.23e+04	1.06	y	39:19	0.89	8.43	J	-	-	*		Co-elute PCB 131	
PCB-142	7.36e+06	1.28	y	39:29	0.77	3230		-	-	*			
PCB-165	1.87e+05	1.11	y	39:43	1.04	60.8		-	-	*		Co-elute PCB 146	
PCB-146	1.87e+05	1.11	y	39:43	1.04	60.8		-	-	*		Co-elute PCB 165	
PCB-161	2.81e+05	1.35	y	39:58	0.97	98.1		-	-	*		Co-elute PCB 132	
PCB-132	2.81e+05	1.35	y	39:58	0.97	98.1		-	-	*		Co-elute PCB 161	
PCB-153	1.06e+06	1.23	y	40:06	1.01	356		-	-	*			
PCB-168	*	*	n	NotFnd	1.12	*		592	532	4.54			
PCB-141	1.48e+05	1.30	y	40:48	0.88	57.0		-	-	*			
PCB-137	*	*	n	NotFnd	0.83	*		592	532	6.15			
PCB-130	5.06e+04	1.18	y	41:16	0.78	22.0		-	-	*			
PCB-138	8.59e+05	1.30	y	41:37	1.14	254		-	-	*		Co-elute PCB 163/164	
PCB-163	8.59e+05	1.30	y	41:37	1.14	254		-	-	*		Co-elute PCB 138/164	
PCB-164	8.59e+05	1.30	y	41:37	1.14	254		-	-	*		Co-elute PCB 138/163	
PCB-158	1.00e+05	1.28	y	41:50	1.14	29.7		-	-	*		Co-elute PCB 160	
PCB-160	1.00e+05	1.28	y	41:50	1.14	29.7		-	-	*		Co-elute PCB 158	
PCB-129	4.00e+04	1.10	y	42:05	0.73	18.4	J	-	-	*			
PCB-166	*	*	n	NotFnd	1.07	*		592	532	4.76			
PCB-159	*	*	n	NotFnd	1.17	*		592	532	4.37			
PCB-128	1.03e+05	1.26	y	43:04	0.97	36.1		-	-	*		Co-elute PCB 162	
PCB-162	1.03e+05	1.26	y	43:04	0.97	36.1		-	-	*		Co-elute PCB 128	
PCB-167	2.93e+04	1.25	y	43:29	1.05	9.31	J	-	-	*			
13C-PCB-167	3.01e+07	1.28	y	43:27	1.15	9450					94.5	3.11e+06	2.45e+06
PCB-156	6.43e+04	1.16	y	44:41	1.09	20.5		-	-	*			
13C-PCB-156	2.89e+07	1.30	y	44:40	1.12	9300					93.0	2.88e+06	2.28e+06
PCB-157	*	*	n	NotFnd	1.13	*		592	532	4.58			
13C-PCB-157	3.03e+07	1.28	y	44:56	1.15	9490					94.9	3.05e+06	2.39e+06
PCB-169	*	*	n	NotFnd	1.06	*		592	532	4.48			
13C-PCB-169	2.90e+07	1.27	y	46:48	1.08	9670					96.7	3.35e+06	2.60e+06

FAL ID: 11703-003-0001-SA Filename: 27JUL18Z Sam:7 Acquired: 27-JUL-18 14:42:54 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SC-ENR+AC-CC-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

PCB-188	*	*	n	NotFnd	1.17	*		524	304	3.54			
13C-PCB-188	2.33e+07	1.07	y	39:42	0.93	9060					90.6	2.60e+06	2.40e+06
PCB-184	6.32e+06	1.03	y	40:08	1.22	2320		-	-	*			
PCB-179	1.15e+05	1.13	y	40:53	1.12	45.9		-	-	*			
PCB-176	4.88e+04	0.98	y	41:19	1.09	19.9	J	-	-	*			
PCB-186	*	*	n	NotFnd	1.14	*		524	304	3.56			
PCB-178	3.99e+04	1.17	y	42:23	0.80	22.3		-	-	*			
PCB-175	*	*	n	NotFnd	0.85	*		524	304	4.78			
PCB-187	1.92e+05	1.10	y	42:49	0.95	89.6		-	-	*		Co-elute PCB 182	
PCB-182	1.92e+05	1.10	y	42:49	0.95	89.6		-	-	*		Co-elute PCB 187	
PCB-183	9.07e+04	1.10	y	43:09	0.91	44.6		-	-	*			
PCB-185	*	*	n	NotFnd	0.88	*		524	304	4.60			
PCB-174	1.12e+05	1.06	y	44:07	0.81	61.8		-	-	*			
PCB-181	*	*	n	NotFnd	0.92	*		524	304	4.38			
PCB-177	7.29e+04	0.96	y	44:23	0.79	41.2		-	-	*			
PCB-171	3.49e+04	0.96	y	44:41	0.83	18.8	J	-	-	*			
PCB-173	*	*	n	NotFnd	0.78	*		524	304	5.17			
PCB-172	1.24e+05	1.18	y	45:26	0.79	70.0		-	-	*			
PCB-192	4.12e+06	1.03	y	45:39	1.08	1710		-	-	*			
PCB-180	2.38e+05	1.17	y	45:49	1.04	102		-	-	*			
PCB-193	2.58e+04	0.94	y	45:57	1.12	10.3	J	-	-	*			
PCB-191	*	*	n	NotFnd	1.05	*		524	304	3.86			
PCB-170	6.54e+04	0.99	y	47:06	0.75	38.9		-	-	*			
PCB-190	*	*	n	NotFnd	1.02	*		524	304	3.98			
PCB-189	*	*	n	NotFnd	1.13	*		524	304	3.47			
13C-PCB-189	2.15e+07	1.09	y	48:27	0.81	9560					95.6	2.75e+06	2.52e+06
PCB-202	*	*	n	NotFnd	1.00	*		192	216	3.11			
PCB-201	*	*	n	NotFnd	0.95	*		192	216	3.29			
PCB-204	7.29e+06	0.91	y	45:26	0.97	4930		-	-	*			
PCB-197	4.26e+04	0.93	y	45:42	1.05	26.7		-	-	*			
PCB-200	*	*	n	NotFnd	0.97	*		192	216	3.21			
PCB-198	*	*	n	NotFnd	0.70	*		192	216	4.47			
PCB-199	2.57e+04	0.93	y	47:42	0.78	21.8		-	-	*			
PCB-203	2.91e+04	0.99	y	47:57	0.80	23.7		-	-	*		Co-elute PCB 196	
PCB-196	2.91e+04	0.99	y	47:57	0.80	23.7		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.52e+07	0.90	y	44:48	0.60	9140					91.4	1.54e+06	1.74e+06
13C-PCB-178	1.70e+07	1.08	y	42:20	0.67	9230					92.3	1.74e+06	1.56e+06
13C-PCB-138	2.77e+07	1.26	y	41:34	-	64.0							
PCB-195	2.03e+04	0.77	y	49:04	0.78	7.25	J	-	-	*			
PCB-194	4.86e+04	0.83	y	49:52	0.83	16.3	J	-	-	*			
PCB-205	*	*	n	NotFnd	1.12	*		364	868	2.34			
13C-PCB-205	3.59e+07	0.91	y	50:06	1.29	9000					90.0	5.59e+06	6.19e+06
PCB-208	*	*	n	NotFnd	1.01	*		448	412	2.36			
13C-PCB-208	2.93e+07	0.80	y	49:09	1.11	8560					85.6	4.08e+06	4.98e+06
PCB-207	4.60e+04	1.15	y	49:27	0.98	18.2	J	-	-	*			
PCB-206	*	*	n	NotFnd	1.02	*		448	412	3.28			
13C-PCB-206	2.26e+07	0.81	y	51:18	0.89	8240					82.4	2.90e+06	3.55e+06
PCB-209	6.57e+04	1.14	y	52:28	1.11	23.7		-	-	*			
13C-PCB-209	2.51e+07	1.22	y	52:28	0.97	8360					83.6	4.55e+06	3.70e+06
13C-PCB-194	3.09e+07	0.94	y	49:50	-	69.9							

Analyst: _____ Date: 8/20/18

File:27JUL18Z #1-783 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-783 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
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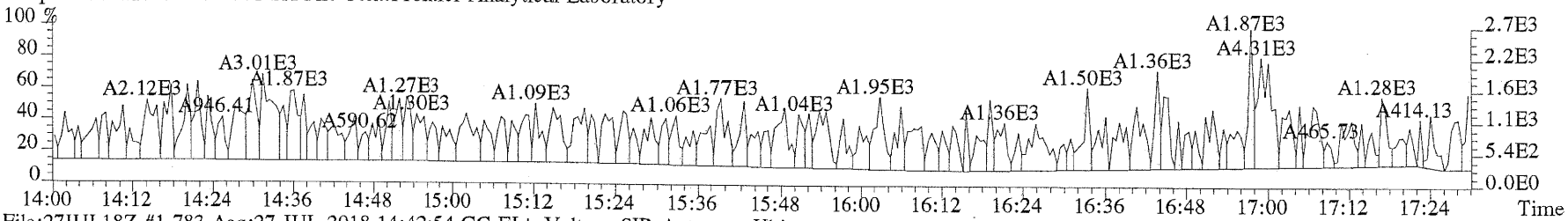
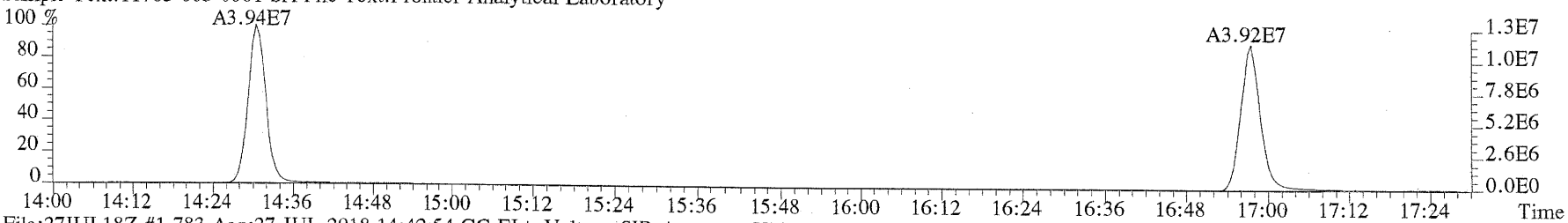
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-783 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-783 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
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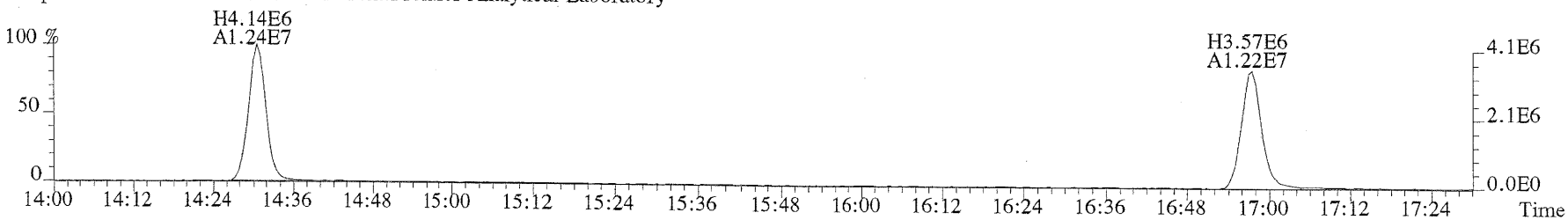
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-520 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
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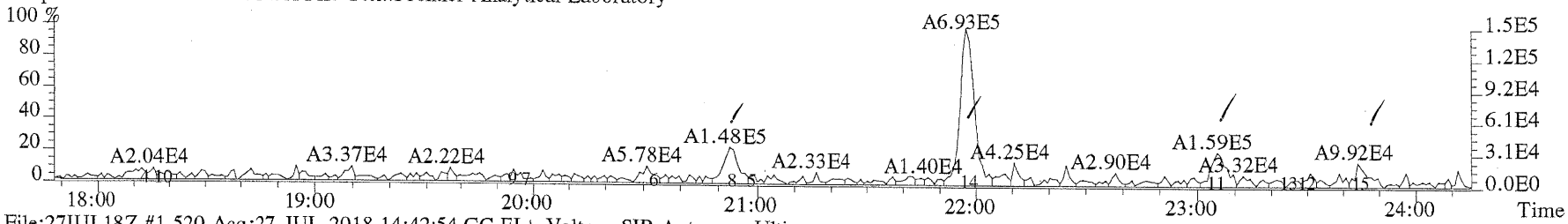
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-520 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
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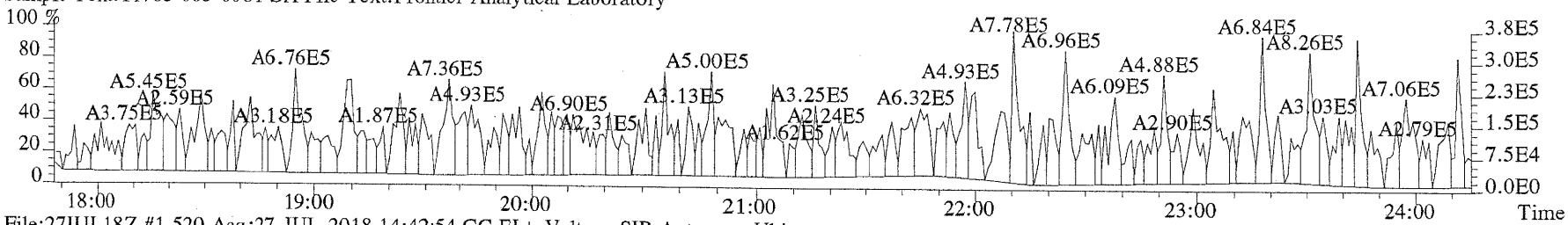
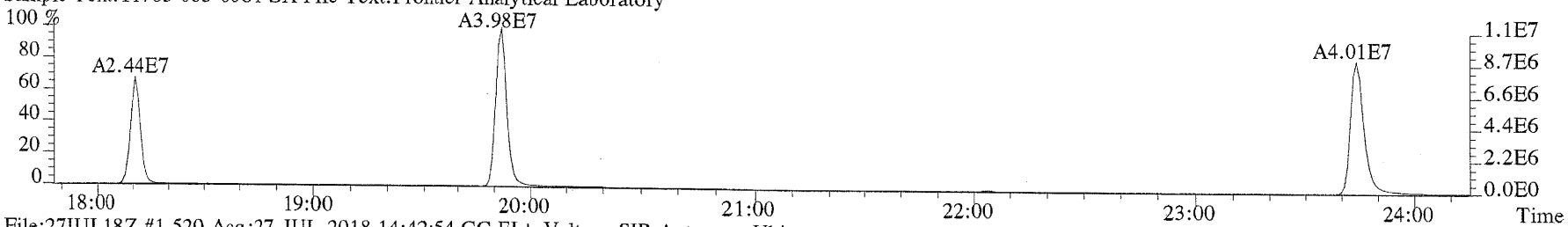
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-520 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-520 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
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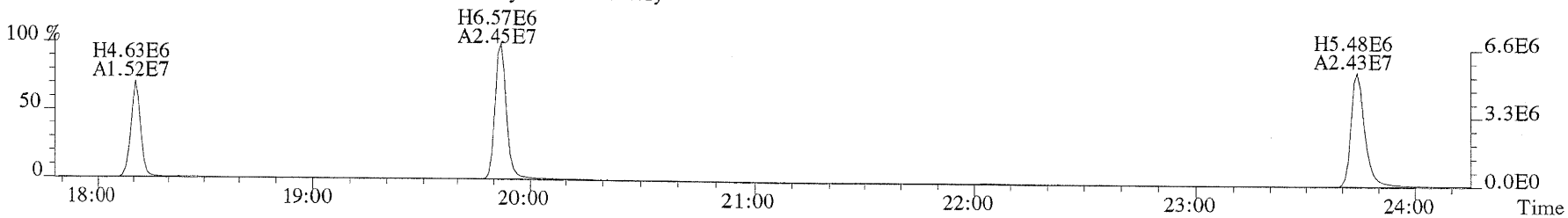
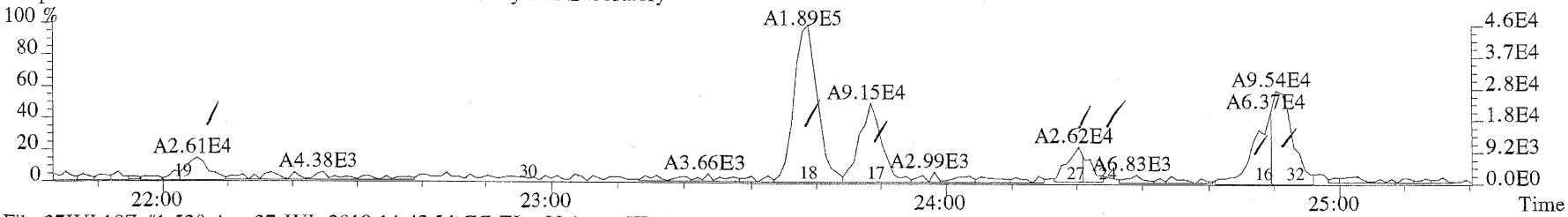
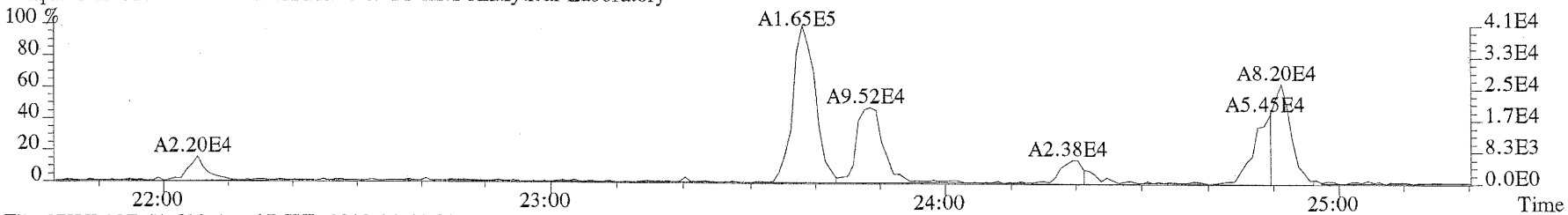
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



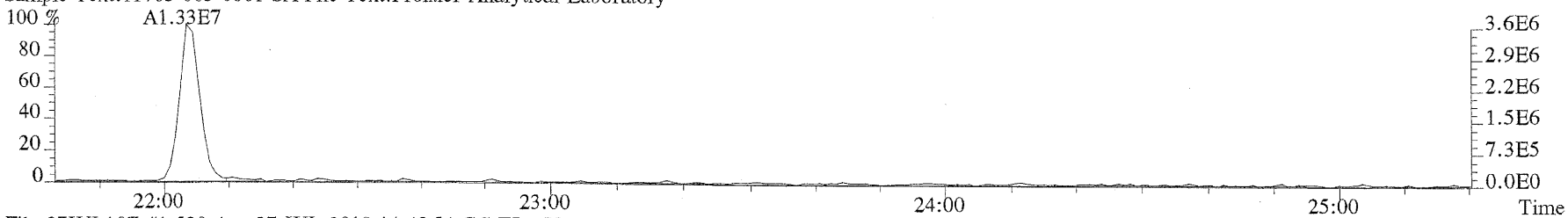
File:27JUL18Z #1-520 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



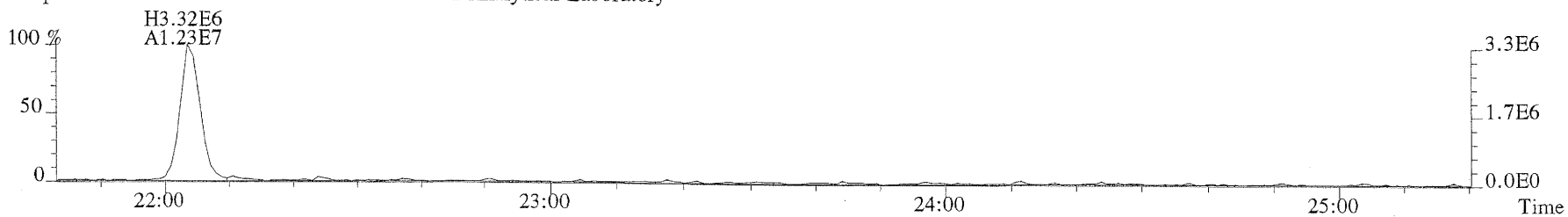
File:27JUL18Z #1-520 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



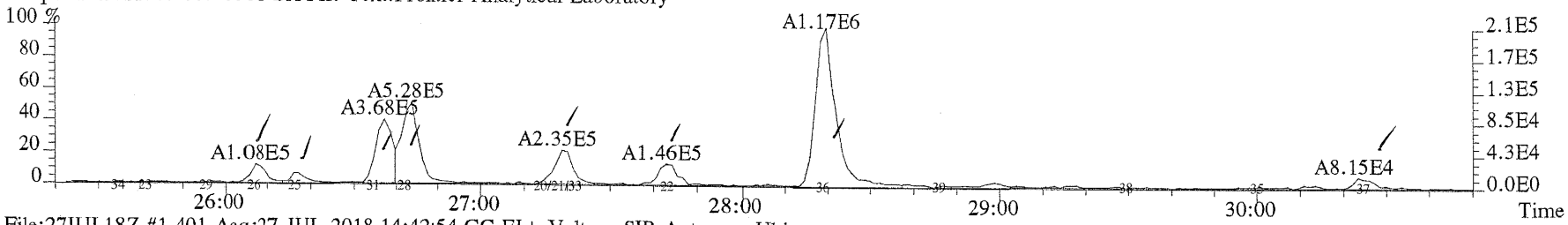
File:27JUL18Z #1-520 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



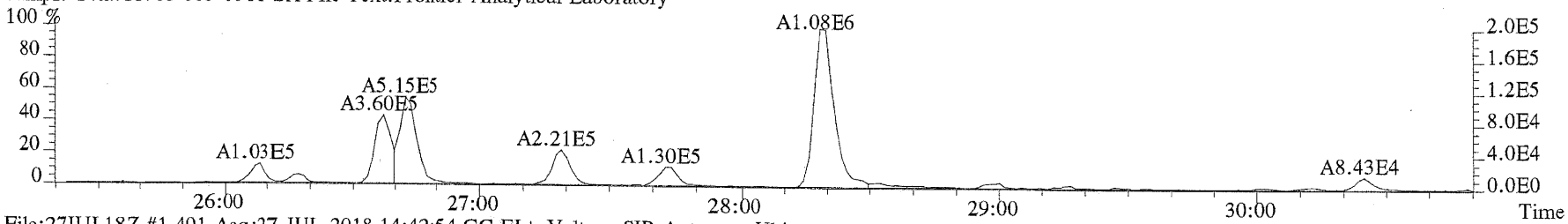
File:27JUL18Z #1-520 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



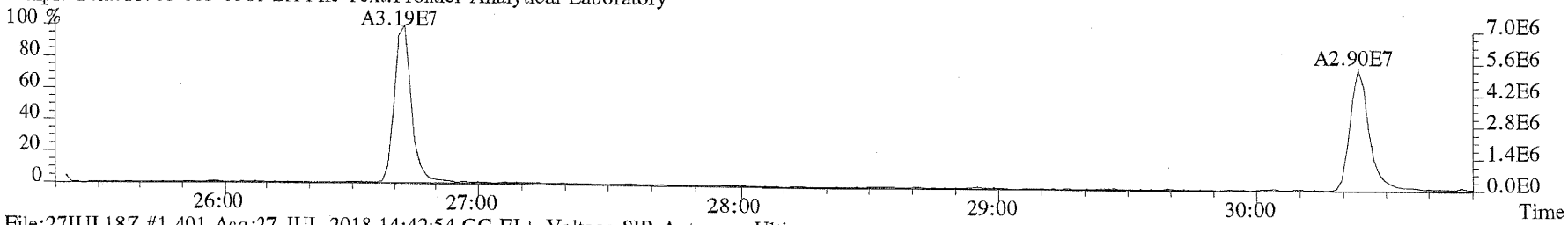
File:27JUL18Z #1-401 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
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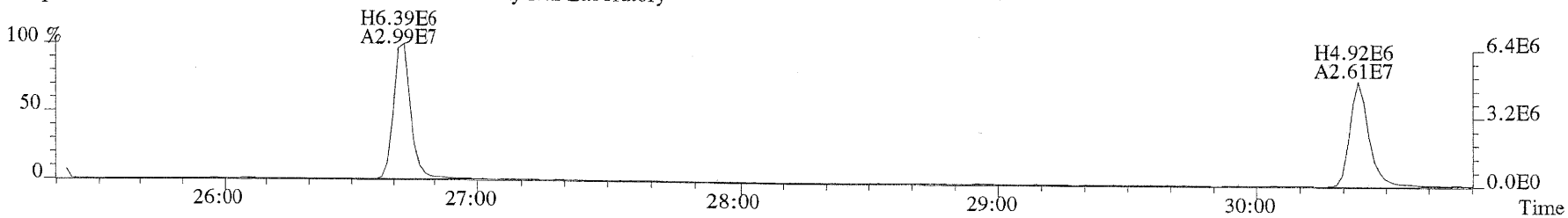
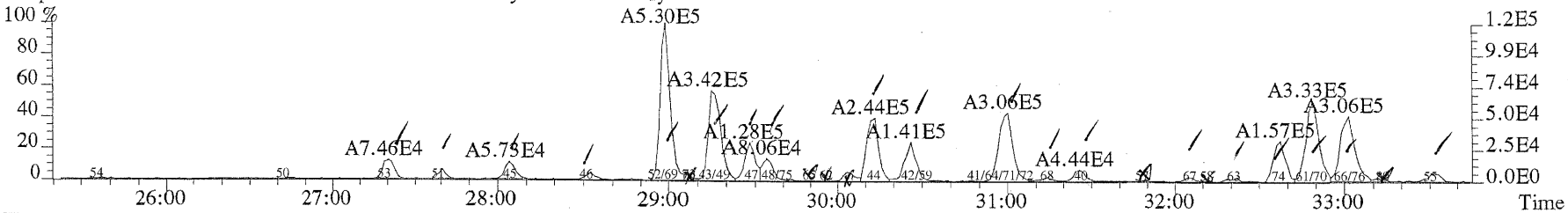
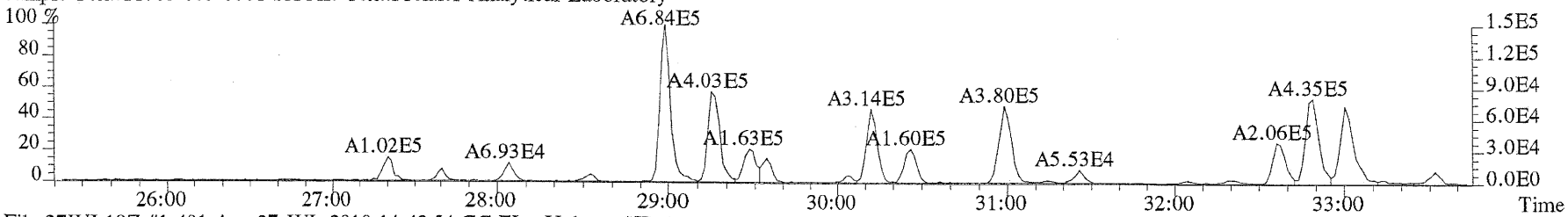
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



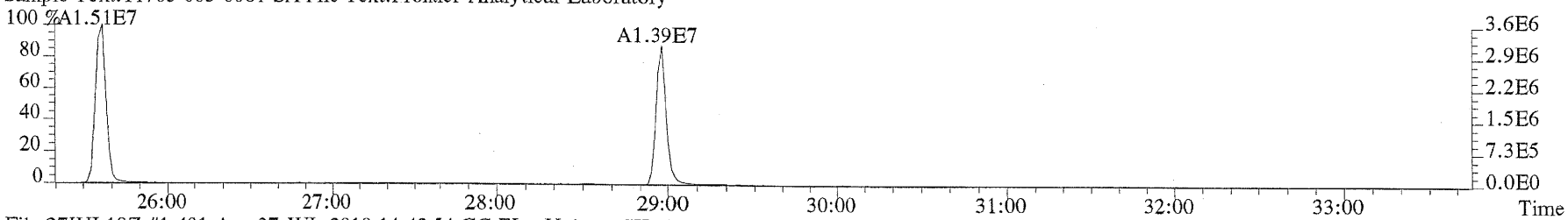
File:27JUL18Z #1-401 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



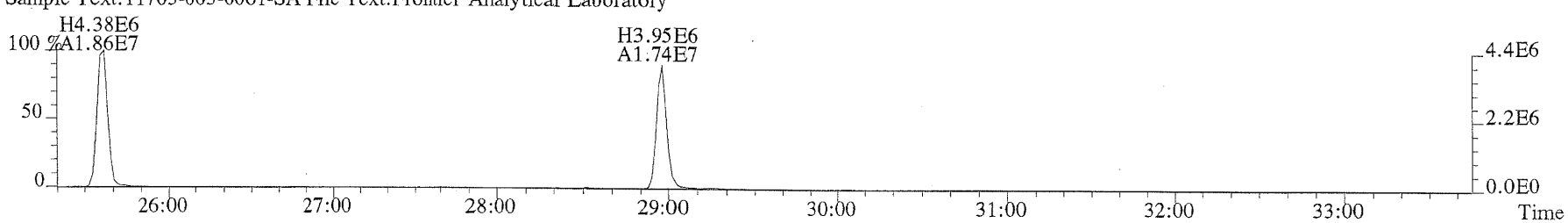
File:27JUL18Z #1-401 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



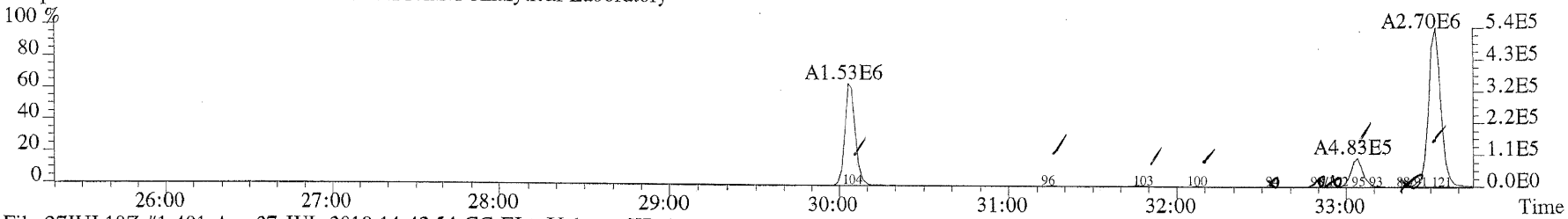
File:27JUL18Z #1-401 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



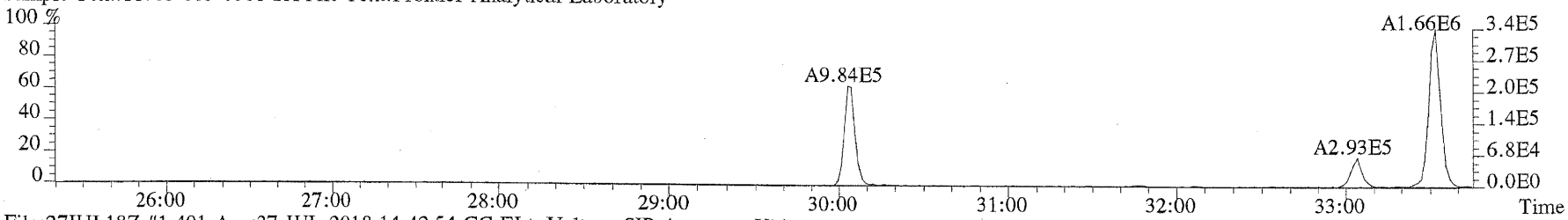
File:27JUL18Z #1-401 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



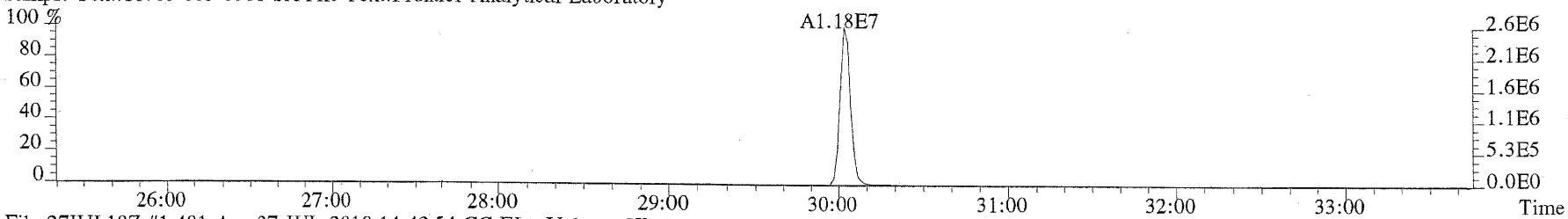
File:27JUL18Z #1-401 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



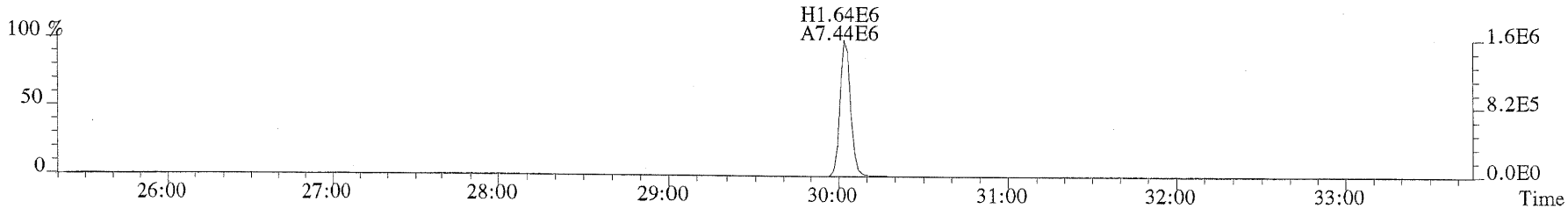
File:27JUL18Z #1-401 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



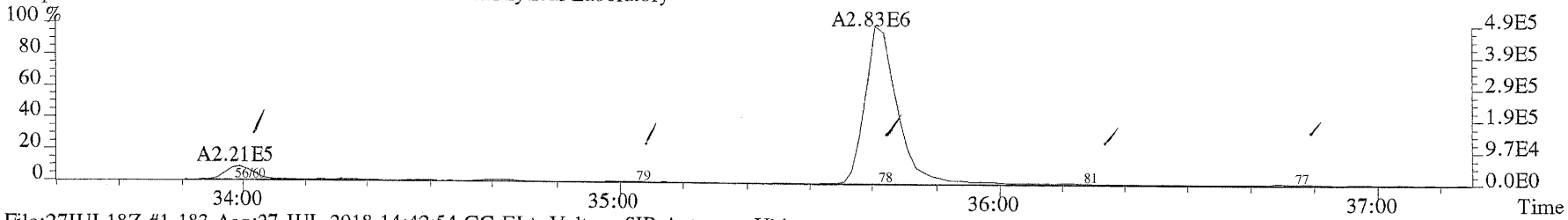
File:27JUL18Z #1-401 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



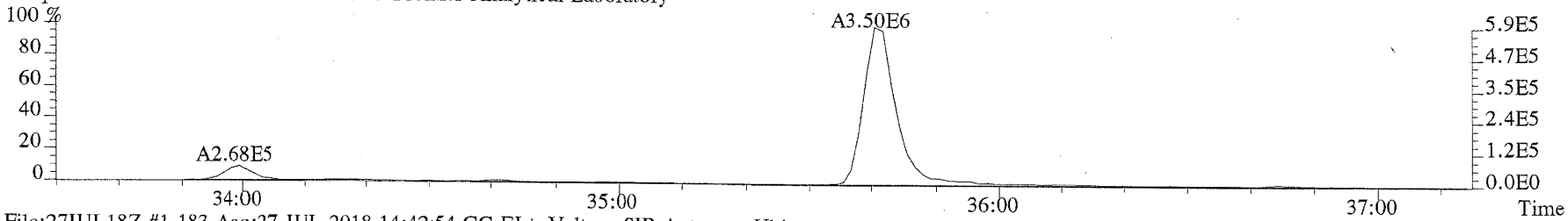
File:27JUL18Z #1-401 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



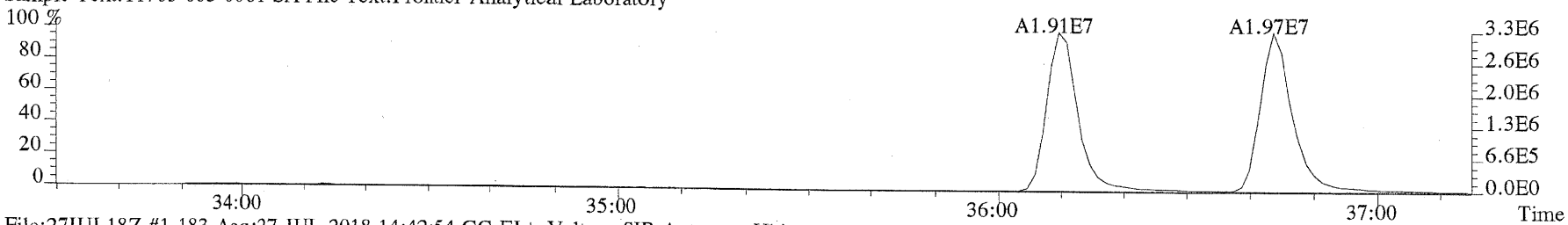
File:27JUL18Z #1-183 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



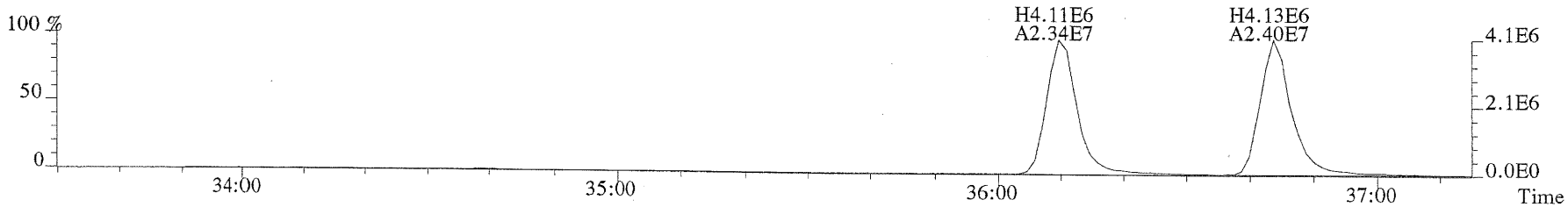
File:27JUL18Z #1-183 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



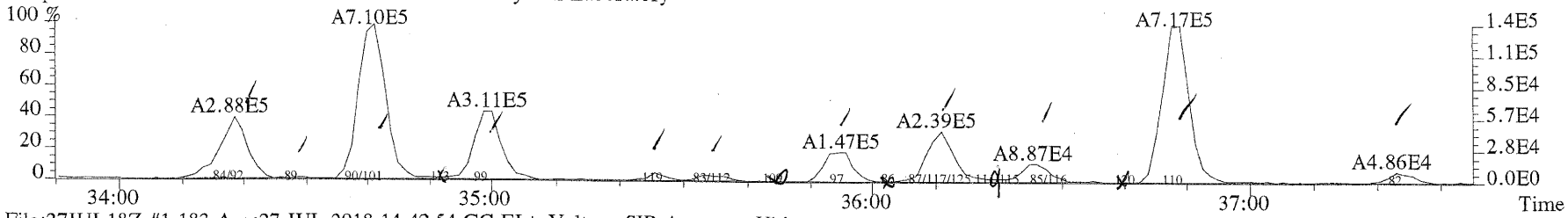
File:27JUL18Z #1-183 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



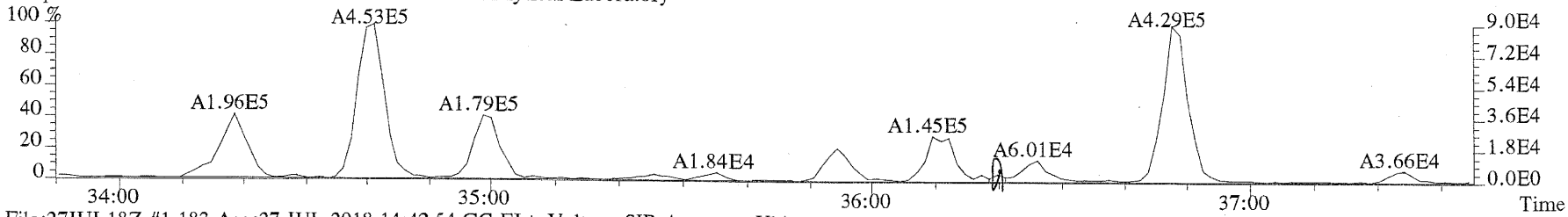
File:27JUL18Z #1-183 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



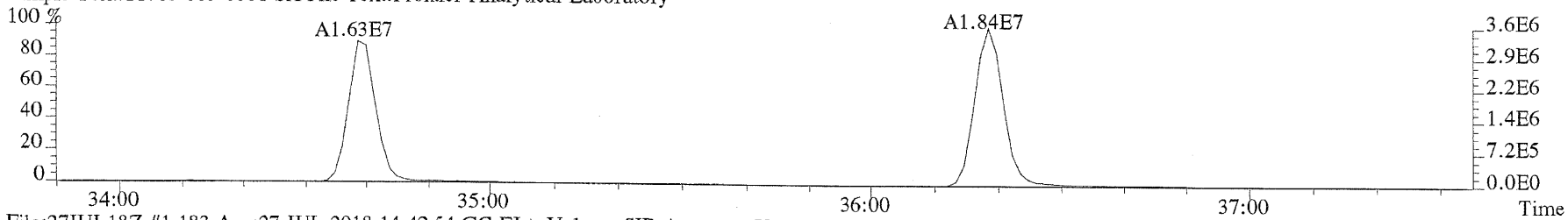
File:27JUL18Z #1-183 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



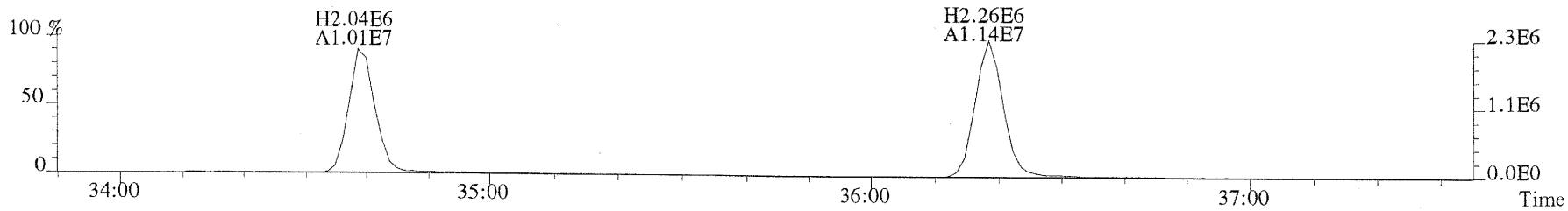
File:27JUL18Z #1-183 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



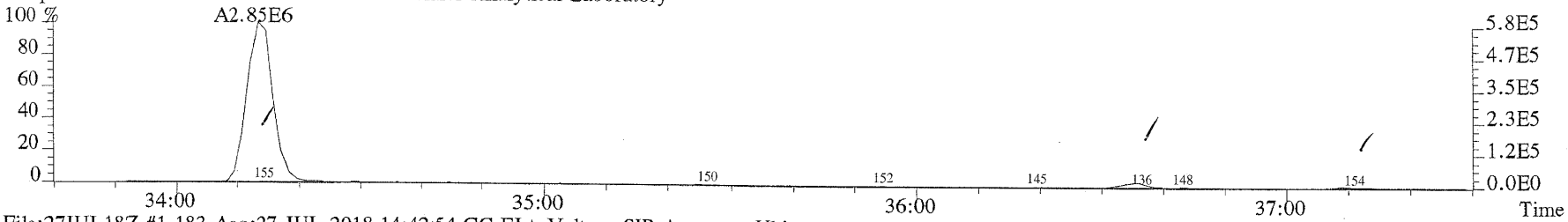
File:27JUL18Z #1-183 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



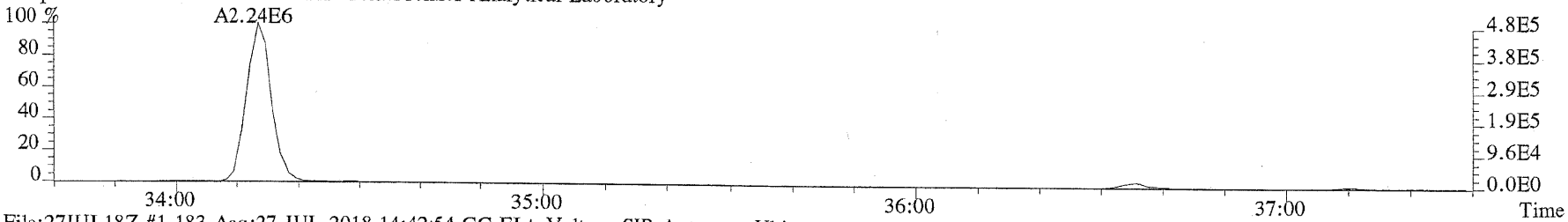
File:27JUL18Z #1-183 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



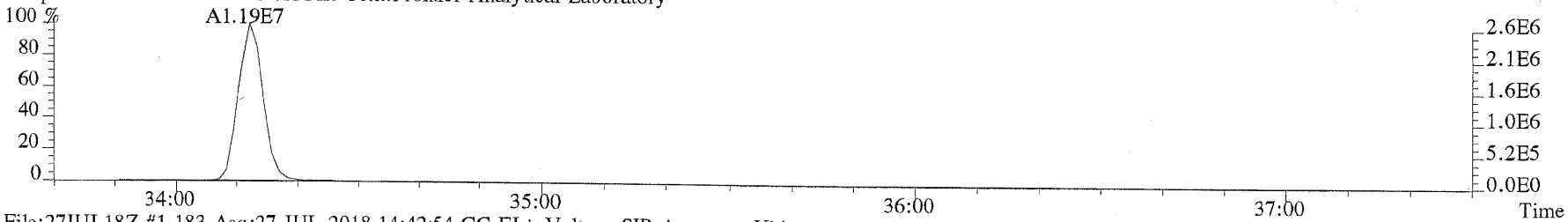
File:27JUL18Z #1-183 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



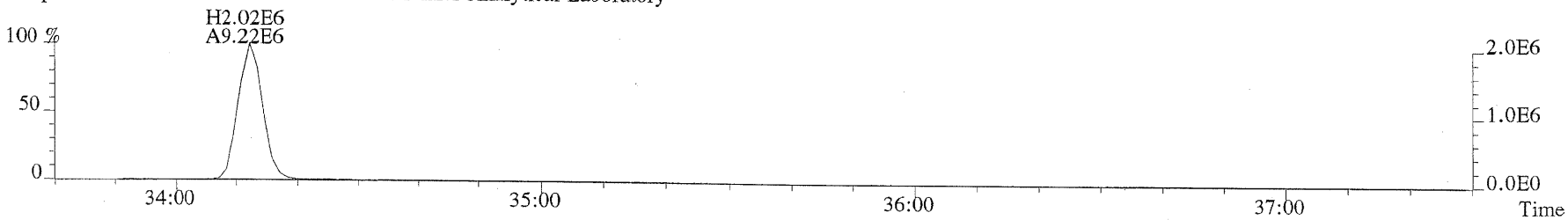
File:27JUL18Z #1-183 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



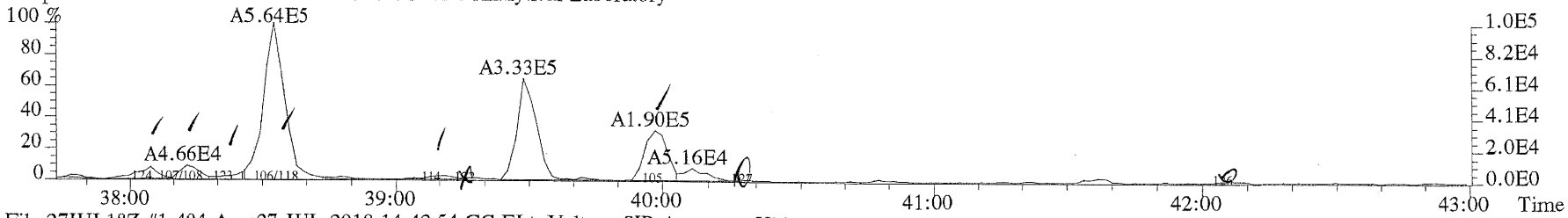
File:27JUL18Z #1-183 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



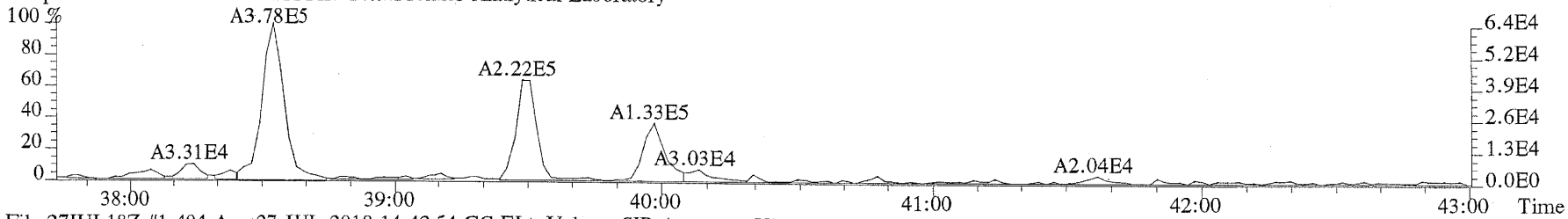
File:27JUL18Z #1-183 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



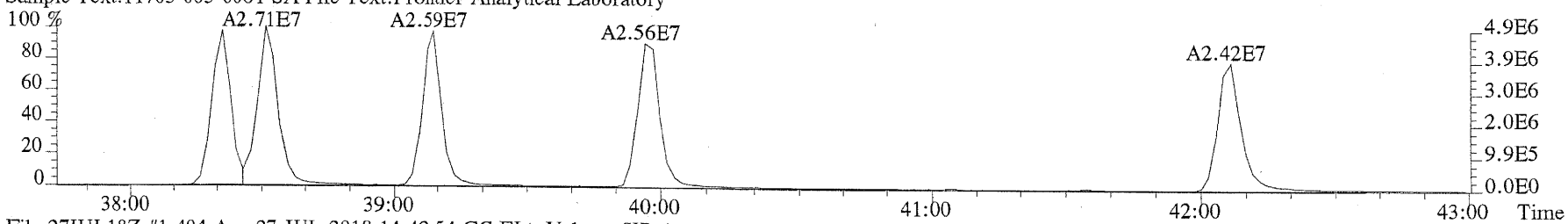
File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



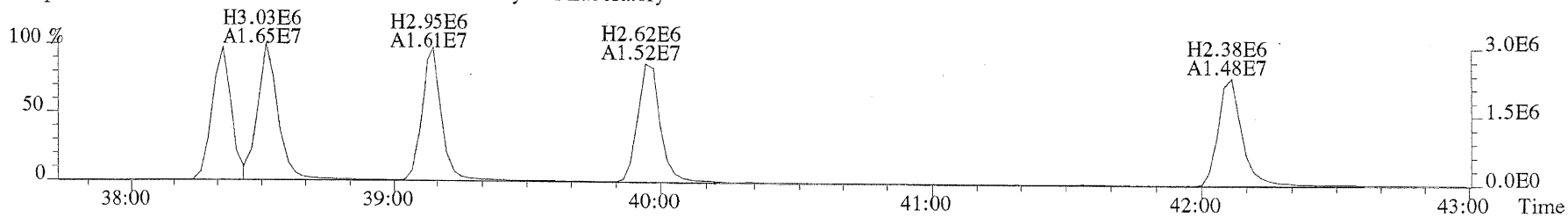
File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



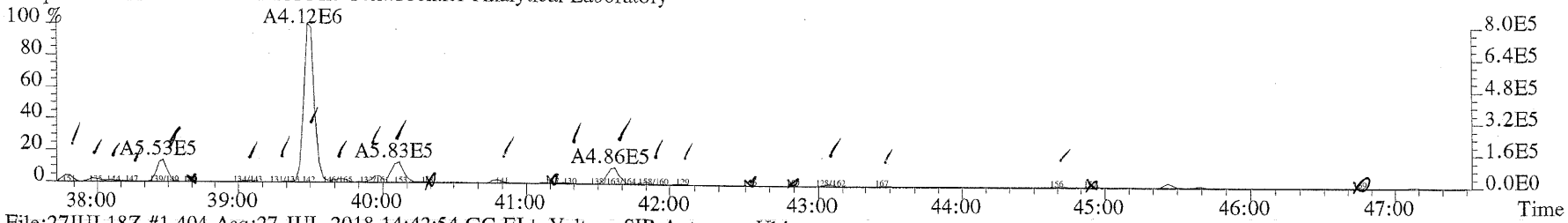
File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



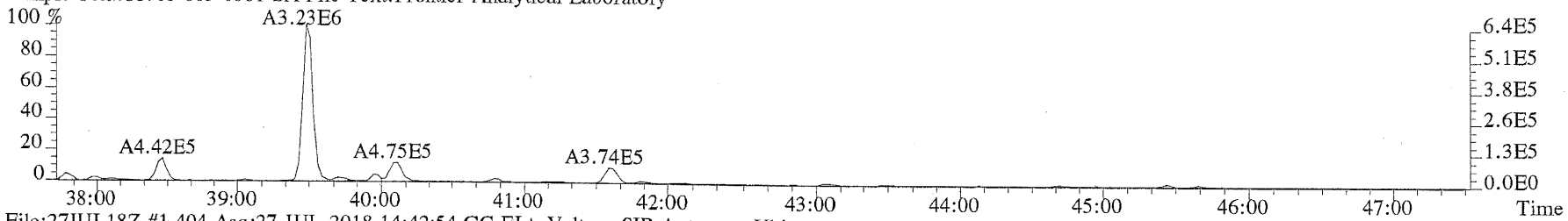
File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



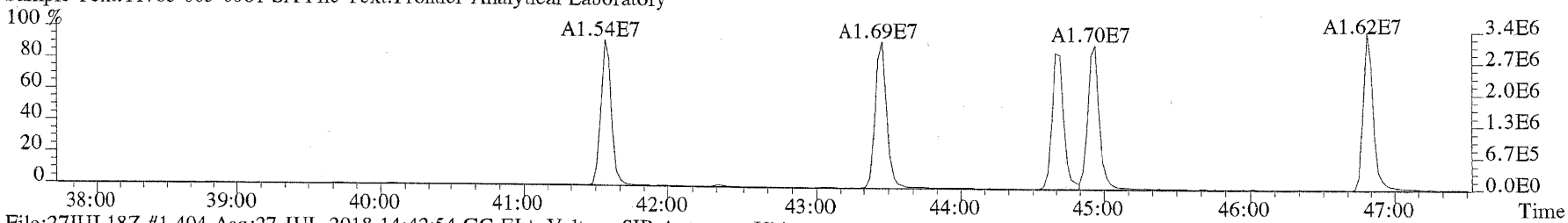
File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



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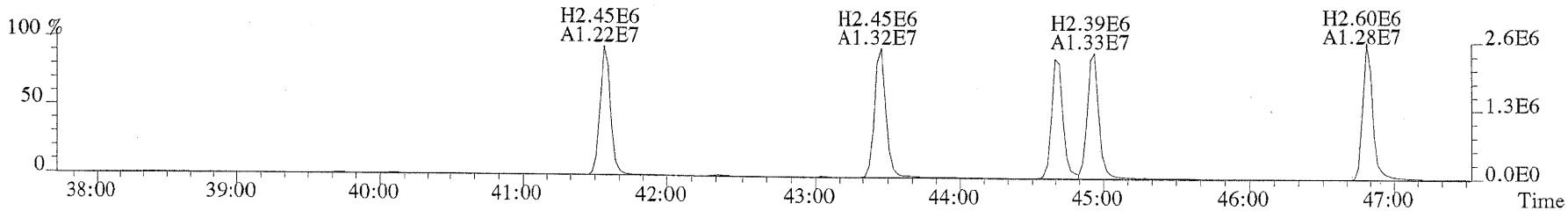
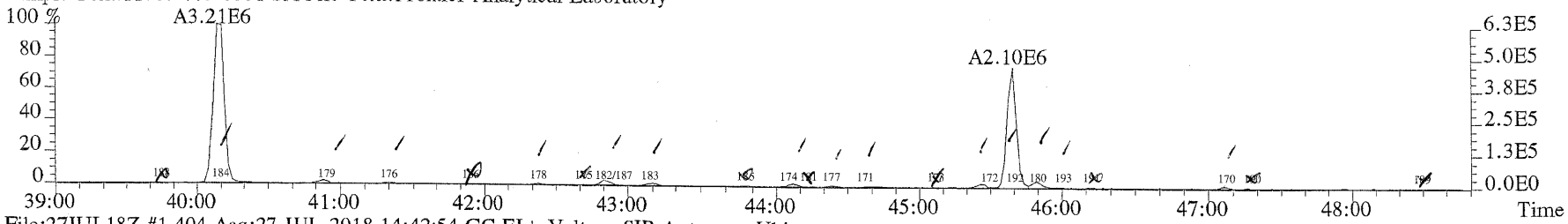
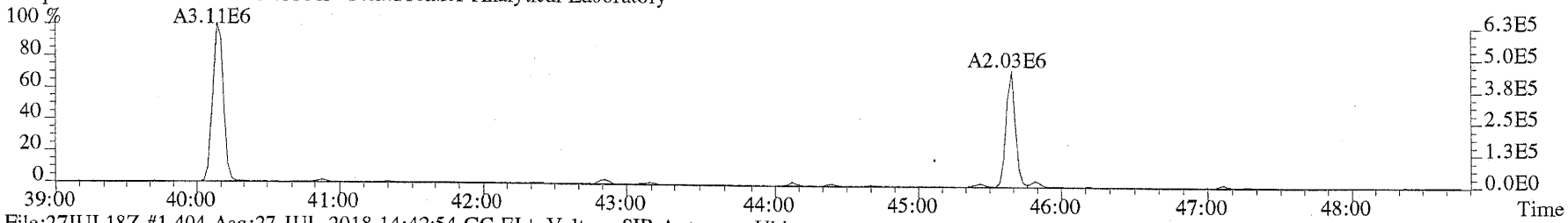
373.8788 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



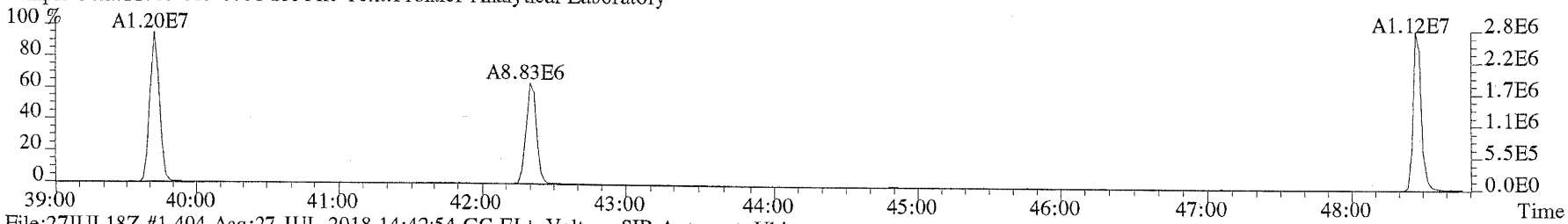
File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



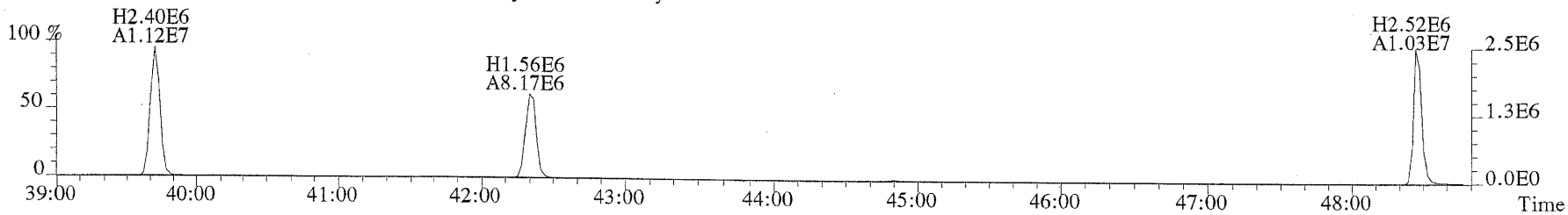
File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



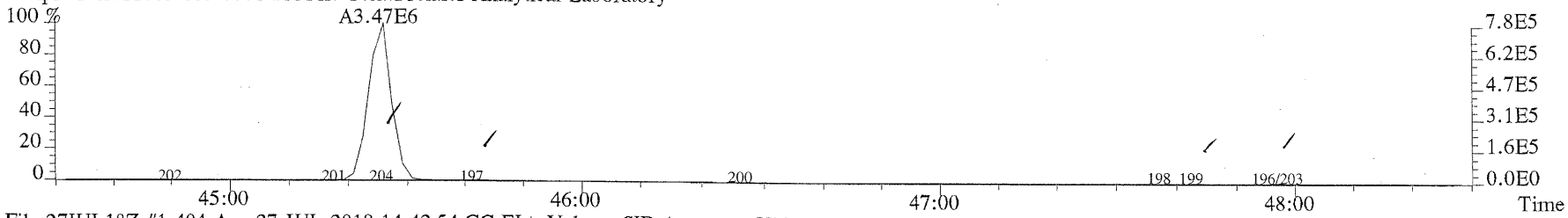
File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



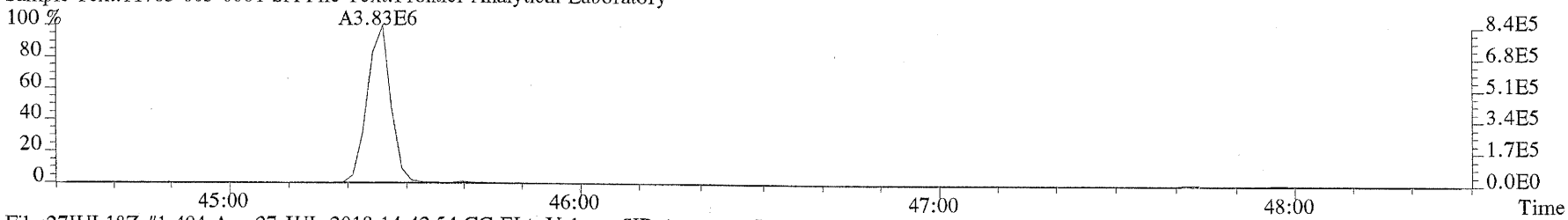
File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



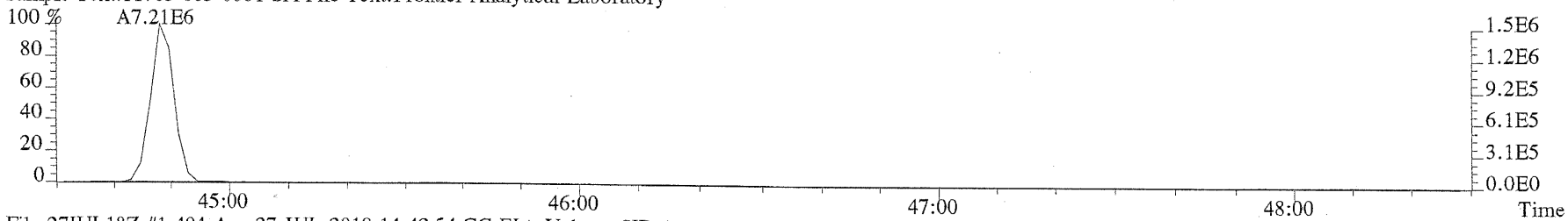
File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



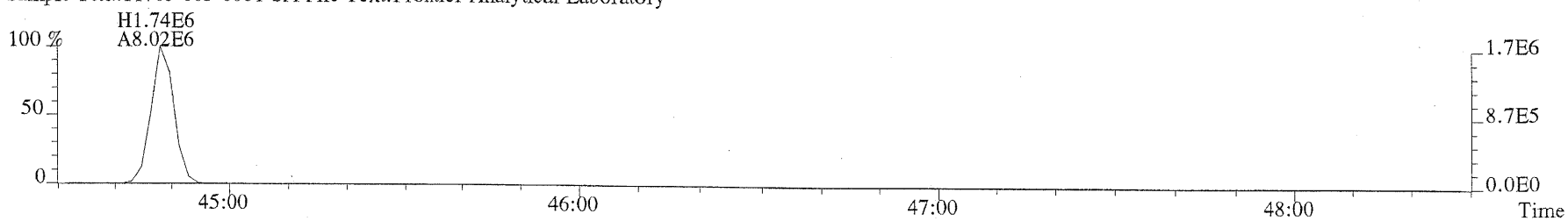
File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



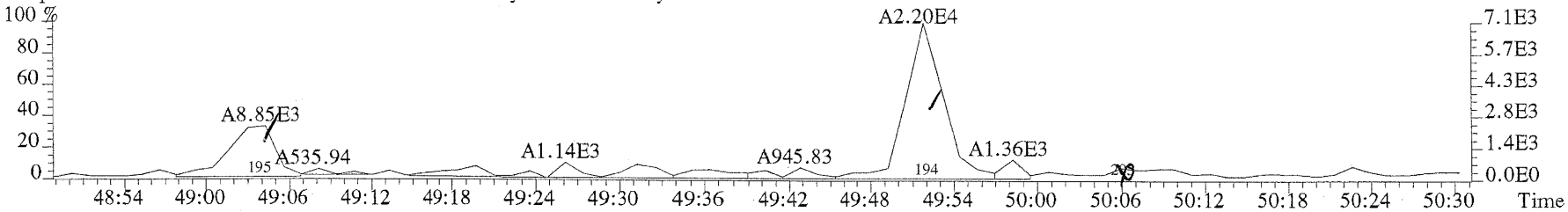
File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



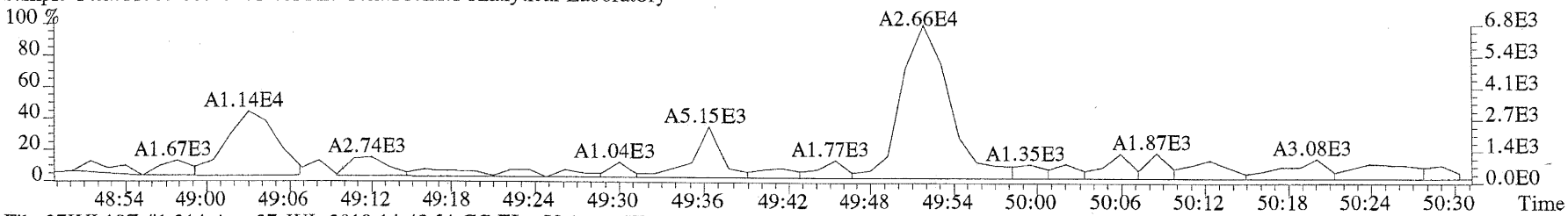
File:27JUL18Z #1-404 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



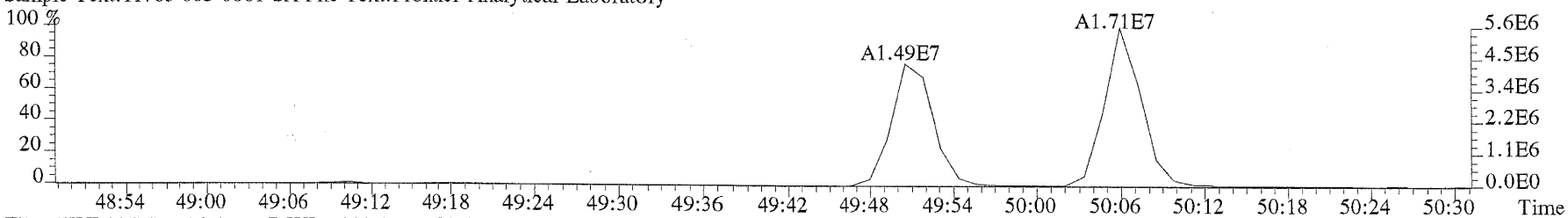
File:27JUL18Z #1-314 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



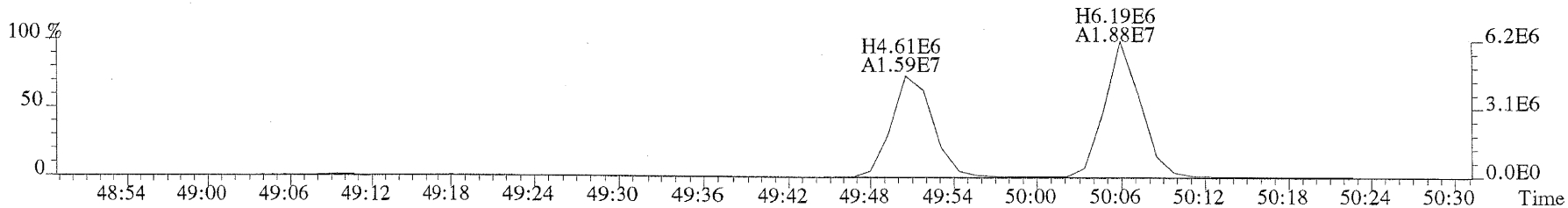
File:27JUL18Z #1-314 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



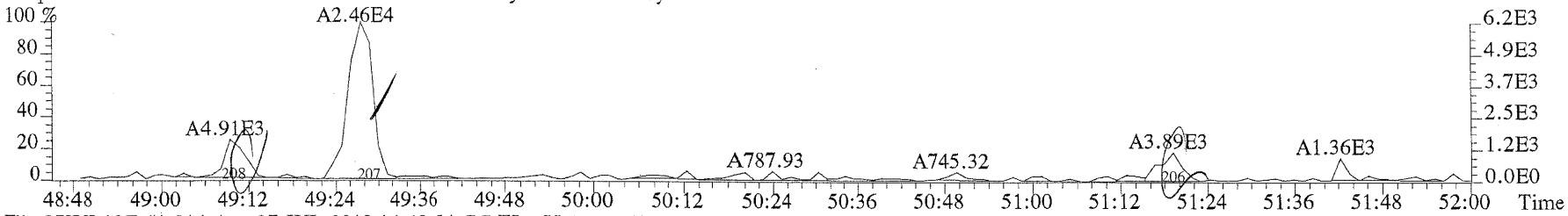
File:27JUL18Z #1-314 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



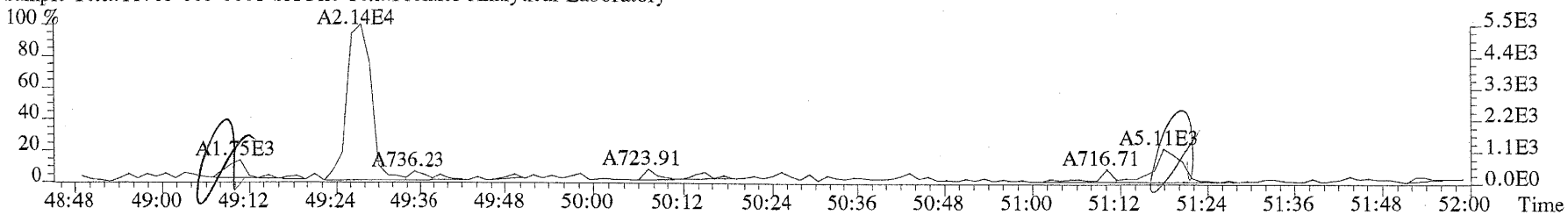
File:27JUL18Z #1-314 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



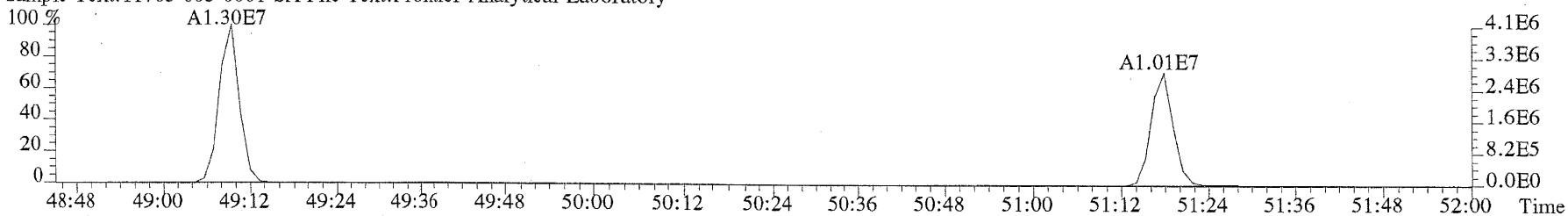
File:27JUL18Z #1-314 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



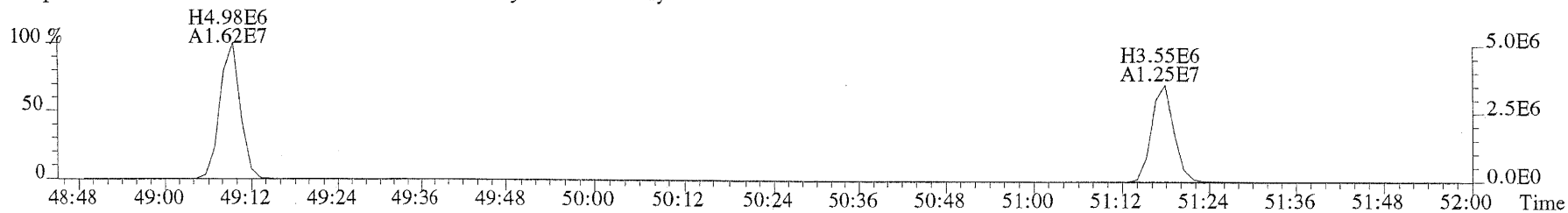
File:27JUL18Z #1-314 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



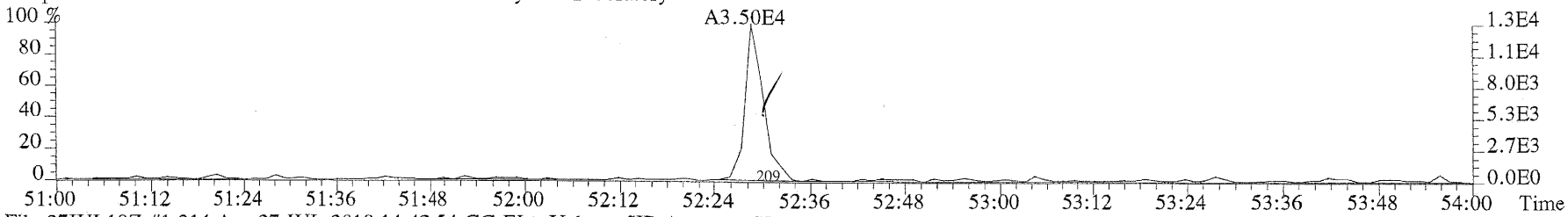
File:27JUL18Z #1-314 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



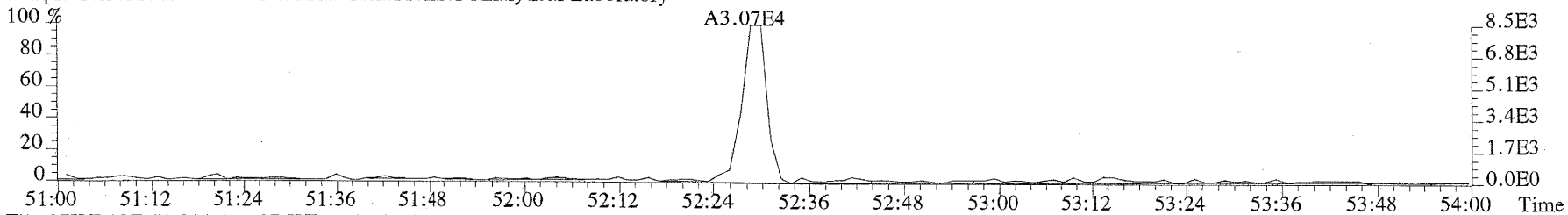
File:27JUL18Z #1-314 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



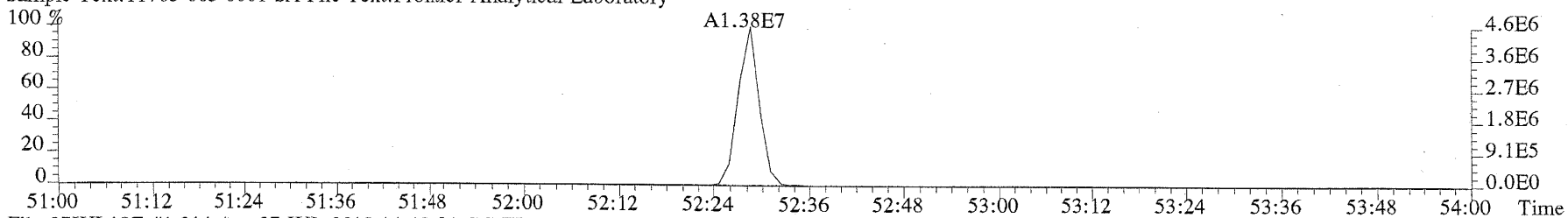
File:27JUL18Z #1-314 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



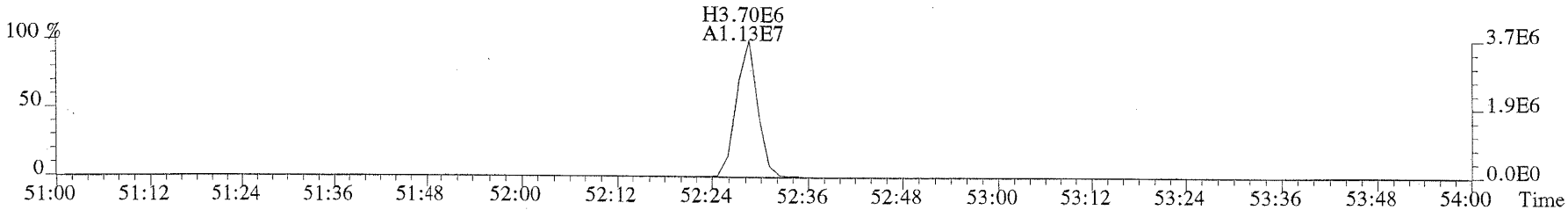
File:27JUL18Z #1-314 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 14:42:54 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-003-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11703-006-0001-SA Filename: 27JUL18Z Sam:8 Acquired: 27-JUL-18 15:41:35 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SC-ENR-CA-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	*	n	NotFnd	1.17	*		1550	1220	3.29			
13C-PCB-1	5.43e+07	3.18	y	14:30	0.92	8100					81.0	1.37e+07	4.31e+06
PCB-2	*	*	n	NotFnd	1.05	*		1550	1220	3.76			
PCB-3	*	*	n	NotFnd	1.16	*		1550	1220	3.46			
13C-PCB-3	5.86e+07	3.22	y	16:57	0.93	8640					86.4	1.32e+07	4.05e+06
PCB-4	*	*	n	NotFnd	1.42	*		1110	2650	4.99			
PCB-10	*	*	n	NotFnd	1.21	*		1110	2650	5.01			
13C-PCB-4	4.55e+07	1.60	y	18:10	0.68	9240					92.4	8.14e+06	5.10e+06
PCB-9	*	*	n	NotFnd	1.40	*		1110	2650	4.33			
PCB-7	*	*	n	NotFnd	1.40	*		1110	2650	4.35			
PCB-6	2.09e+05	1.64	y	20:32	1.33	26.0		-	-	*			
PCB-8	5.13e+05	1.67	y	20:54	1.35	63.0		-	-	*			
PCB-5	*	*	n	NotFnd	1.35	*		1110	2650	4.49			
PCB-14	1.51e+06	1.53	y	21:57	1.31	191		-	-	*			
PCB-11	3.67e+05	1.38	y	23:06	1.24	49.0		-	-	*			
PCB-13	*	*	n	NotFnd	1.32	*		1110	2650	4.61			
PCB-12	*	*	n	NotFnd	1.30	*		1110	2650	4.68			
PCB-15	2.55e+05	1.57	y	23:46	1.26	27.0		-	-	*			
13C-PCB-15	7.51e+07	1.64	y	23:44	1.00	10300					103	1.06e+07	6.58e+06
PCB-19	1.20e+05	1.17	y	22:05	1.19	33.3		-	-	*			
PCB-30	*	*	n	NotFnd	1.63	*		1880	524	4.60			
PCB-18	7.34e+05	1.11	y	23:39	1.14	212		-	-	*			
PCB-17	3.53e+05	1.16	y	23:48	1.23	94.7		-	-	*			
PCB-27	1.34e+05	1.13	y	24:20	1.49	29.6		-	-	*			
PCB-24	4.04e+04	1.16	y	24:22	1.69	7.91	J	-	-	*			
PCB-16	2.67e+05	1.08	y	24:49	1.36	64.9		-	-	*			
PCB-32	4.00e+05	1.12	y	24:51	1.41	93.9		-	-	*			
13C-PCB-19	3.03e+07	1.08	y	22:04	0.44	9380					93.8	4.17e+06	3.89e+06
13C-PCB-9	7.27e+07	1.63	y	19:52	-	63.6							
PCB-34	*	*	n	NotFnd	1.03	*		2490	1610	7.75			
PCB-23	*	*	n	NotFnd	1.10	*		2490	1610	7.24			
PCB-29	*	*	n	NotFnd	1.14	*		2490	1610	6.96			
PCB-26	3.74e+05	1.00	y	26:08	1.04	55.1		-	-	*			
PCB-25	2.75e+05	1.12	y	26:17	1.36	31.0		-	-	*			
PCB-31	1.44e+06	1.05	y	26:37	1.12	198		-	-	*			
PCB-28	2.26e+06	1.02	y	26:43	1.44	241		-	-	*			
PCB-20	8.79e+05	1.04	y	27:19	1.24	109		-	-	*		Co-elute PCB 21/33	
PCB-21	8.79e+05	1.04	y	27:19	1.24	109		-	-	*		Co-elute PCB 20/33	
PCB-33	8.79e+05	1.04	y	27:19	1.24	109		-	-	*		Co-elute PCB 20/21	
PCB-22	5.52e+05	0.95	y	27:43	1.24	68.4		-	-	*			
PCB-36	3.09e+06	1.04	y	28:19	1.13	421		-	-	*			
PCB-39	*	*	n	NotFnd	1.16	*		2490	1610	6.87			
PCB-38	*	*	n	NotFnd	1.12	*		2490	1610	7.12			
PCB-35	*	*	n	NotFnd	1.08	*		2490	1610	7.39			
PCB-37	3.24e+05	1.16	y	30:26	1.22	40.8		-	-	*			
13C-PCB-37	6.52e+07	1.08	y	30:23	1.72	10600					106	6.67e+06	6.22e+06

PCB-54	*	*	n	NotFnd	1.21	*		820	1360	4.45			
PCB-50	*	*	n	NotFnd	0.91	*		820	1360	5.91			
PCB-53	4.82e+05	0.79	y	27:20	0.93	130		-	-	*			
PCB-51	1.75e+05	0.88	y	27:40	0.95	46.3		-	-	*			
PCB-45	3.27e+05	0.78	y	28:04	0.79	104		-	-	*			
PCB-46	1.24e+05	0.88	y	28:32	0.78	40.0		-	-	*			
PCB-52	2.62e+06	0.80	y	28:59	1.13	577		-	-	*		Co-elute PCB 69	
PCB-69	2.62e+06	0.80	y	28:59	1.13	577		-	-	*		Co-elute PCB 52	
PCB-73	*	*	n	NotFnd	1.11	*		820	1360	4.82			
PCB-43	1.65e+06	0.79	y	29:16	0.88	469		-	-	*		Co-elute PCB 49	
PCB-49	1.65e+06	0.79	y	29:16	0.88	469		-	-	*		Co-elute PCB 43	
PCB-47	6.30e+05	0.79	y	29:28	1.04	152		-	-	*			
PCB-48	4.12e+05	0.78	y	29:34	1.14	90.1		-	-	*		Co-elute PCB 75	
PCB-75	4.12e+05	0.78	y	29:34	1.14	90.1		-	-	*		Co-elute PCB 48	
PCB-65	*	*	n	NotFnd	1.15	*		820	1360	4.66			
PCB-62	*	*	n	NotFnd	1.10	*		820	1360	4.89			
PCB-44	1.20e+06	0.80	y	30:13	0.80	372		-	-	*			
PCB-42	6.25e+05	0.75	y	30:26	1.07	146		-	-	*		Co-elute PCB 59	
PCB-59	6.25e+05	0.75	y	30:26	1.07	146		-	-	*		Co-elute PCB 42	
PCB-72	1.51e+06	0.80	y	31:00	1.14	332		-	-	*		Co-elute PCB 41/71/64	
PCB-41	1.51e+06	0.80	y	31:00	1.14	332		-	-	*		Co-elute PCB 72/71/64	
PCB-71	1.51e+06	0.80	y	31:00	1.14	332		-	-	*		Co-elute PCB 72/41/64	
PCB-64	1.51e+06	0.80	y	31:00	1.14	332		-	-	*		Co-elute PCB 72/41/71	
PCB-68	5.31e+04	0.80	y	31:15	1.22	10.9	J	-	-	*			
PCB-40	2.25e+05	0.75	y	31:27	0.70	80.4		-	-	*			
PCB-57	*	*	n	NotFnd	1.10	*		820	1360	4.87			
PCB-67	6.39e+04	0.73	y	32:04	1.18	13.5	J	-	-	*			
PCB-58	*	*	n	NotFnd	1.07	*		820	1360	4.99			
PCB-63	6.95e+04	0.75	y	32:21	1.12	15.5	J	-	-	*			
PCB-74	7.52e+05	0.83	y	32:37	1.25	150		-	-	*			
PCB-61	1.50e+06	0.80	y	32:49	1.19	315		-	-	*		Co-elute PCB 70	
PCB-70	1.50e+06	0.80	y	32:49	1.19	315		-	-	*		Co-elute PCB 61	
PCB-76	1.48e+06	0.79	y	33:01	1.18	315		-	-	*		Co-elute PCB 66	
PCB-66	1.48e+06	0.79	y	33:01	1.18	315		-	-	*		Co-elute PCB 76	
PCB-80	*	*	n	NotFnd	1.28	*		820	1360	4.17			
PCB-55	1.78e+05	0.79	y	33:32	1.17	38.0		-	-	*			
13C-PCB-54	4.00e+07	0.81	y	25:36	1.14	9850					98.5	4.55e+06	5.62e+06
PCB-104	3.73e+06	1.63	y	30:04	1.26	1310		-	-	*			
PCB-96	3.52e+04	1.43	y	31:15	1.11	13.9	J	-	-	*			
PCB-103	4.30e+04	1.39	y	31:47	0.97	19.6	J	-	-	*			
PCB-100	3.53e+04	1.60	y	32:07	0.97	16.0	J	-	-	*			
PCB-94	*	*	n	NotFnd	0.82	*		328	380	4.17			
PCB-98	*	*	n	NotFnd	0.44	*		328	380	7.73		Co-elute PCB 102	
PCB-102	*	*	n	NotFnd	0.44	*		328	380	7.73		Co-elute PCB 98	
PCB-95	1.68e+06	1.61	y	33:04	0.89	836		-	-	*			
PCB-93	*	*	n	NotFnd	0.82	*		328	380	4.21			
PCB-88	*	*	n	NotFnd	0.91	*		328	380	3.79		Co-elute PCB 91	
PCB-91	*	*	n	NotFnd	0.91	*		328	380	3.79		Co-elute PCB 88	
PCB-121	6.33e+06	1.58	y	33:32	1.08	2590		-	-	*			
13C-PCB-104	2.27e+07	1.62	y	30:03	0.64	10000					100	3.23e+06	1.94e+06
13C-PCB-28	7.39e+07	1.08	y	26:42	1.96	10500					105	8.31e+06	7.76e+06
13C-PCB-52	3.57e+07	0.82	y	28:57	-	64.0							

PCB-56	9.77e+05	0.77	y	33:59	1.22	156		-	-	*		Co-elute PCB 60	
PCB-60	9.77e+05	0.77	y	33:59	1.22	156		-	-	*		Co-elute PCB 56	
PCB-79	4.82e+04	0.73	y	35:00	1.22	7.75	J	-	-	*			
PCB-78	8.73e+06	0.80	y	35:42	1.17	1460		-	-	*			
PCB-81	1.03e+05	0.71	y	36:11	1.24	16.4	J	-	-	*			
13C-PCB-81	5.06e+07	0.82	y	36:11	1.62	10700					107	4.07e+06	4.93e+06
PCB-77	1.44e+05	0.72	y	36:44	1.18	23.8		-	-	*			
13C-PCB-77	5.15e+07	0.83	y	36:44	1.62	10900					109	3.85e+06	4.70e+06
PCB-155	7.66e+06	1.27	y	34:14	1.16	2700		-	-	*			
PCB-150	*	*	n	NotFnd	1.03	*		328	368	3.28			
PCB-152	*	*	n	NotFnd	0.97	*		328	368	3.47			
PCB-145	*	*	n	NotFnd	1.00	*		328	368	3.39			
PCB-136	3.14e+05	1.30	y	36:36	0.89	144		-	-	*			
PCB-148	*	*	n	NotFnd	0.83	*		328	368	4.09			
PCB-154	4.74e+04	1.28	y	37:10	0.88	22.0		-	-	*			
13C-PCB-155	2.45e+07	1.27	y	34:13	0.86	9760					97.6	2.87e+06	2.27e+06
13C-PCB-111	3.56e+07	1.59	y	36:18	1.16	10400					104	4.43e+06	2.75e+06
13C-PCB-101	2.93e+07	1.60	y	34:40	-	66.4							
PCB-84	1.02e+06	1.63	y	34:19	0.65	324		-	-	*		Co-elute PCB 92	
PCB-92	1.02e+06	1.63	y	34:19	0.65	324		-	-	*		Co-elute PCB 84	
PCB-89	3.69e+04	1.72	y	34:28	0.62	12.1	J	-	-	*			
PCB-90	2.38e+06	1.57	y	34:41	0.71	686		-	-	*		Co-elute PCB 101	
PCB-101	2.38e+06	1.57	y	34:41	0.71	686		-	-	*		Co-elute PCB 90	
PCB-113	*	*	n	NotFnd	0.75	*		654	540	4.28			
PCB-99	1.03e+06	1.56	y	35:00	0.84	250		-	-	*			
PCB-119	9.67e+04	1.61	y	35:25	0.90	22.0		-	-	*			
PCB-83	1.06e+05	1.64	y	35:35	0.70	31.0		-	-	*		Co-elute PCB 112	
PCB-112	1.06e+05	1.64	y	35:35	0.70	31.0		-	-	*		Co-elute PCB 83	
PCB-109	*	*	n	NotFnd	0.85	*		654	540	3.75			
PCB-97	5.10e+05	1.68	y	35:56	0.78	134		-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*		654	540	4.87			
PCB-125	7.56e+05	1.60	y	36:11	0.80	195		-	-	*		Co-elute PCB 87/117	
PCB-87	7.56e+05	1.60	y	36:11	0.80	195		-	-	*		Co-elute PCB 125/117	
PCB-117	7.56e+05	1.60	y	36:11	0.80	195		-	-	*		Co-elute PCB 125/87	
PCB-111	3.60e+04	1.70	y	36:20	0.98	7.58	J	-	-	*		Co-elute PCB 115	
PCB-115	3.60e+04	1.70	y	36:20	0.98	7.58	J	-	-	*		Co-elute PCB 111	
PCB-85	3.07e+05	1.57	y	36:26	0.77	82.1		-	-	*		Co-elute PCB 116	
PCB-116	3.07e+05	1.57	y	36:26	0.77	82.1		-	-	*		Co-elute PCB 85	
PCB-120	*	*	n	NotFnd	0.89	*		654	540	3.58			
PCB-110	2.38e+06	1.67	y	36:49	0.92	531		-	-	*			
PCB-82	1.55e+05	1.58	y	37:24	0.51	61.8		-	-	*			
PCB-124	8.98e+04	1.52	y	38:05	1.11	16.6	J	-	-	*			
PCB-108	1.51e+05	1.70	y	38:13	1.18	26.4		-	-	*		Co-elute PCB 107	
PCB-107	1.51e+05	1.70	y	38:13	1.18	26.4		-	-	*		Co-elute PCB 108	
PCB-123	3.63e+04	1.51	y	38:23	1.37	5.84	J	-	-	*			
13C-PCB-123	4.52e+07	1.59	y	38:21	1.46	9940					99.4	5.73e+06	3.62e+06
PCB-118	1.91e+06	1.60	y	38:32	1.09	336		-	-	*		Co-elute PCB 106	
PCB-106	1.91e+06	1.60	y	38:32	1.09	336		-	-	*		Co-elute PCB 118	
13C-PCB-118	5.20e+07	1.64	y	38:31	1.59	10500					105	5.82e+06	3.59e+06
PCB-114	6.43e+04	1.63	y	39:10	1.18	11.0	J	-	-	*			
13C-PCB-114	4.96e+07	1.64	y	39:09	1.51	10600					106	6.17e+06	3.70e+06
PCB-122	3.14e+04	1.44	y	39:17	1.15	5.61	J	-	-	*			
PCB-105	6.87e+05	1.53	y	39:58	1.14	126		-	-	*			
13C-PCB-105	4.78e+07	1.63	y	39:58	1.47	10500					105	5.58e+06	3.21e+06

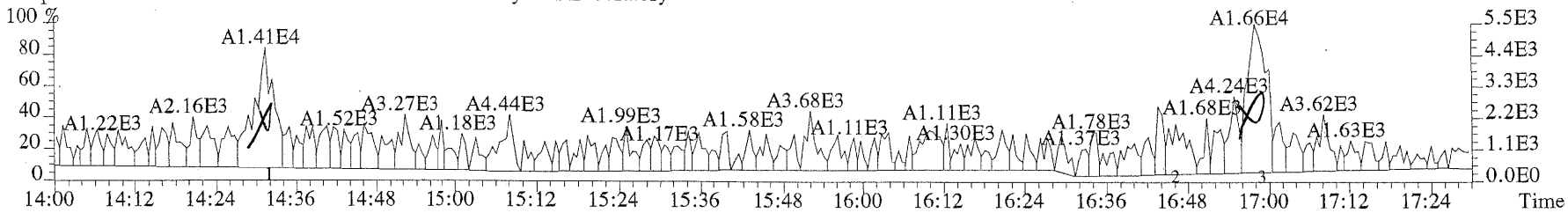
PCB-127	*	*	n	NotFnd	1.02	*		764	680	3.81			
PCB-126	*	*	n	NotFnd	1.18	*		764	680	3.75			
13C-PCB-126	4.67e+07	1.65	y	42:06	1.39	10800					108	5.07e+06	3.07e+06
PCB-151	5.51e+05	1.28	y	37:48	0.89	179		-	-	*			
PCB-135	2.87e+05	1.33	y	38:00	0.90	91.5		-	-	*			
PCB-144	1.34e+05	1.20	y	38:06	0.85	45.5		-	-	*			
PCB-147	5.05e+04	1.38	y	38:13	0.90	16.2	J	-	-	*			
PCB-139	1.86e+06	1.34	y	38:28	0.95	562		-	-	*		Co-elute PCB 149	
PCB-149	1.86e+06	1.34	y	38:28	0.95	562		-	-	*		Co-elute PCB 139	
PCB-140	2.87e+04	1.11	y	38:39	0.92	8.95	J	-	-	*			
PCB-143	7.51e+04	1.12	y	39:04	0.87	24.8		-	-	*		Co-elute PCB 134	
PCB-134	7.51e+04	1.12	y	39:04	0.87	24.8		-	-	*		Co-elute PCB 143	
PCB-131	4.02e+04	1.08	y	39:20	0.89	13.0	J	-	-	*		Co-elute PCB 133	
PCB-133	4.02e+04	1.08	y	39:20	0.89	13.0	J	-	-	*		Co-elute PCB 131	
PCB-142	1.08e+07	1.27	y	39:30	0.77	4050		-	-	*			
PCB-165	3.27e+05	1.13	y	39:43	1.04	90.7		-	-	*		Co-elute PCB 146	
PCB-146	3.27e+05	1.13	y	39:43	1.04	90.7		-	-	*		Co-elute PCB 165	
PCB-161	5.43e+05	1.18	y	39:58	0.97	162		-	-	*		Co-elute PCB 132	
PCB-132	5.43e+05	1.18	y	39:58	0.97	162		-	-	*		Co-elute PCB 161	
PCB-153	1.98e+06	1.26	y	40:06	1.01	567		-	-	*			
PCB-168	*	*	n	NotFnd	1.12	*		800	620	4.58			
PCB-141	2.87e+05	1.31	y	40:47	0.88	93.9		-	-	*			
PCB-137	5.83e+04	1.18	y	41:09	0.83	20.3		-	-	*			
PCB-130	8.94e+04	1.27	y	41:15	0.78	33.1		-	-	*			
PCB-138	1.67e+06	1.23	y	41:37	1.14	421		-	-	*		Co-elute PCB 163/164	
PCB-163	1.67e+06	1.23	y	41:37	1.14	421		-	-	*		Co-elute PCB 138/164	
PCB-164	1.67e+06	1.23	y	41:37	1.14	421		-	-	*		Co-elute PCB 138/163	
PCB-158	1.89e+05	1.11	y	41:48	1.14	47.8		-	-	*		Co-elute PCB 160	
PCB-160	1.89e+05	1.11	y	41:48	1.14	47.8		-	-	*		Co-elute PCB 158	
PCB-129	5.40e+04	1.14	y	42:05	0.73	21.2		-	-	*			
PCB-166	*	*	n	NotFnd	1.07	*		800	620	4.80			
PCB-159	3.28e+04	1.33	y	42:51	1.17	8.11	J	-	-	*			
PCB-128	1.77e+05	1.14	y	43:04	0.97	52.7		-	-	*		Co-elute PCB 162	
PCB-162	1.77e+05	1.14	y	43:04	0.97	52.7		-	-	*		Co-elute PCB 128	
PCB-167	5.79e+04	1.15	y	43:29	1.05	15.9	J	-	-	*			
13C-PCB-167	3.49e+07	1.26	y	43:27	1.15	9750					97.5	3.87e+06	2.99e+06
PCB-156	7.90e+04	1.10	y	44:43	1.09	21.4		-	-	*			
13C-PCB-156	3.40e+07	1.28	y	44:40	1.12	9720					97.2	3.57e+06	2.86e+06
PCB-157	*	*	n	NotFnd	1.13	*		800	620	4.67			
13C-PCB-157	3.55e+07	1.28	y	44:56	1.15	9900					99.0	3.82e+06	2.94e+06
PCB-169	*	*	n	NotFnd	1.06	*		800	620	4.37			
13C-PCB-169	3.43e+07	1.29	y	46:48	1.08	10200					102	4.35e+06	3.35e+06

FAL ID: 11703-006-0001-SA Filename: 27JUL18Z Sam:8 Acquired: 27-JUL-18 15:41:35 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SC-ENR-CA-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

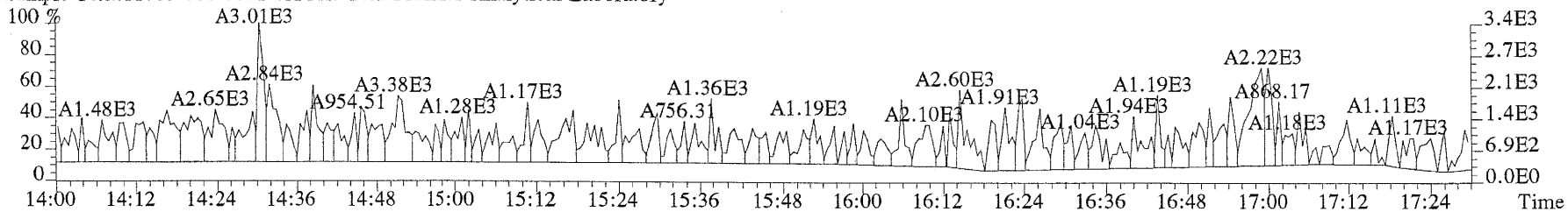
PCB-188	*	*	n	NotFnd	1.17	*		632	352	3.39			
13C-PCB-188	2.77e+07	1.08	y	39:42	0.93	9610					96.1	3.22e+06	2.97e+06
PCB-184	9.52e+06	1.06	y	40:10	1.22	2960		-	-	*			
PCB-179	1.85e+05	1.09	y	40:52	1.12	62.8		-	-	*			
PCB-176	6.32e+04	1.12	y	41:19	1.09	21.8		-	-	*			
PCB-186	*	*	n	NotFnd	1.14	*		632	352	3.37			
PCB-178	6.50e+04	1.11	y	42:23	0.80	30.8		-	-	*			
PCB-175	*	*	n	NotFnd	0.85	*		632	352	4.54			
PCB-187	3.27e+05	0.96	y	42:51	0.95	130		-	-	*		Co-elute PCB 182	
PCB-182	3.27e+05	0.96	y	42:51	0.95	130		-	-	*		Co-elute PCB 187	
PCB-183	1.54e+05	1.16	y	43:09	0.91	64.1		-	-	*			
PCB-185	3.18e+04	1.11	y	43:49	0.88	13.7	J	-	-	*			
PCB-174	2.16e+05	1.13	y	44:07	0.81	101		-	-	*			
PCB-181	*	*	n	NotFnd	0.92	*		632	352	4.16			
PCB-177	1.17e+05	1.05	y	44:23	0.79	56.1		-	-	*			
PCB-171	6.56e+04	0.97	y	44:40	0.83	29.9		-	-	*			
PCB-173	*	*	n	NotFnd	0.78	*		632	352	4.90			
PCB-172	2.19e+05	1.01	y	45:26	0.79	105		-	-	*			
PCB-192	6.03e+06	1.03	y	45:39	1.08	2120		-	-	*			
PCB-180	4.11e+05	1.11	y	45:50	1.04	149		-	-	*			
PCB-193	4.19e+04	0.96	y	45:59	1.12	14.2	J	-	-	*			
PCB-191	*	*	n	NotFnd	1.05	*		632	352	3.66			
PCB-170	1.46e+05	1.18	y	47:06	0.75	73.5		-	-	*			
PCB-190	4.15e+04	1.07	y	47:16	1.02	15.5	J	-	-	*			
PCB-189	*	*	n	NotFnd	1.13	*		632	352	3.26			
13C-PCB-189	2.51e+07	1.07	y	48:27	0.81	9920					99.2	3.44e+06	3.23e+06
PCB-202	*	*	n	NotFnd	1.00	*		212	296	3.36			
PCB-201	*	*	n	NotFnd	0.95	*		212	296	3.55			
PCB-204	1.12e+07	0.91	y	45:26	0.97	6500		-	-	*			
PCB-197	6.40e+04	0.88	y	45:40	1.05	34.6		-	-	*			
PCB-200	*	*	n	NotFnd	0.97	*		212	296	3.46			
PCB-198	*	*	n	NotFnd	0.70	*		212	296	4.82			
PCB-199	3.65e+04	0.99	y	47:42	0.78	26.6		-	-	*			
PCB-203	4.64e+04	0.87	y	47:57	0.80	32.6		-	-	*		Co-elute PCB 196	
PCB-196	4.64e+04	0.87	y	47:57	0.80	32.6		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.77e+07	0.91	y	44:48	0.60	9440					94.4	1.80e+06	1.98e+06
13C-PCB-178	2.02e+07	1.08	y	42:21	0.67	9770					97.7	2.15e+06	1.99e+06
13C-PCB-138	3.11e+07	1.29	y	41:35	-	72.0							
PCB-195	4.01e+04	0.93	y	49:03	0.78	12.1	J	-	-	*			
PCB-194	7.85e+04	0.92	y	49:52	0.83	22.2		-	-	*			
PCB-205	*	*	n	NotFnd	1.12	*		324	976	2.23			
13C-PCB-205	4.28e+07	0.92	y	50:06	1.29	9420					94.2	6.26e+06	6.82e+06
PCB-208	1.54e+04	1.27	y	49:09	1.01	4.47	J	-	-	*			
13C-PCB-208	3.41e+07	0.80	y	49:08	1.11	8760					87.6	4.57e+06	5.92e+06
PCB-207	7.48e+04	1.35	y	49:27	0.98	25.0		-	-	*			
PCB-206	1.94e+04	1.44	y	51:19	1.02	7.05	J	-	-	*			
13C-PCB-206	2.71e+07	0.81	y	51:18	0.89	8690					86.9	4.08e+06	4.97e+06
PCB-209	9.17e+04	1.26	y	52:28	1.11	28.2		-	-	*			
13C-PCB-209	2.94e+07	1.20	y	52:28	0.97	8610					86.1	4.63e+06	3.79e+06
13C-PCB-194	3.51e+07	0.94	y	49:50	-	79.4							

Analyst: _____ Date: 8/20/18

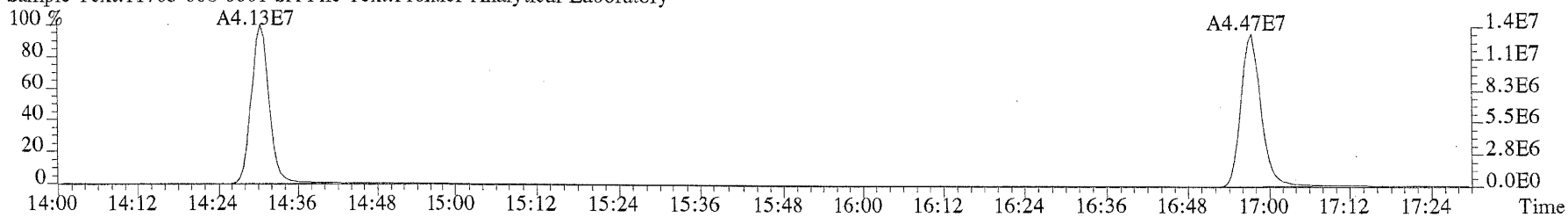
File:27JUL18Z #1-783 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



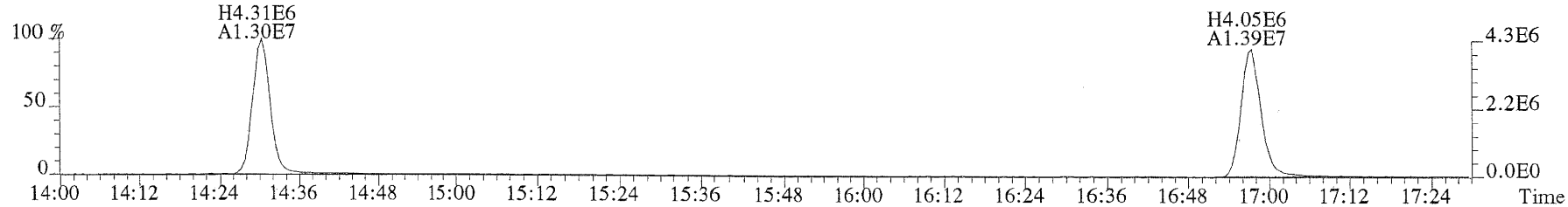
File:27JUL18Z #1-783 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



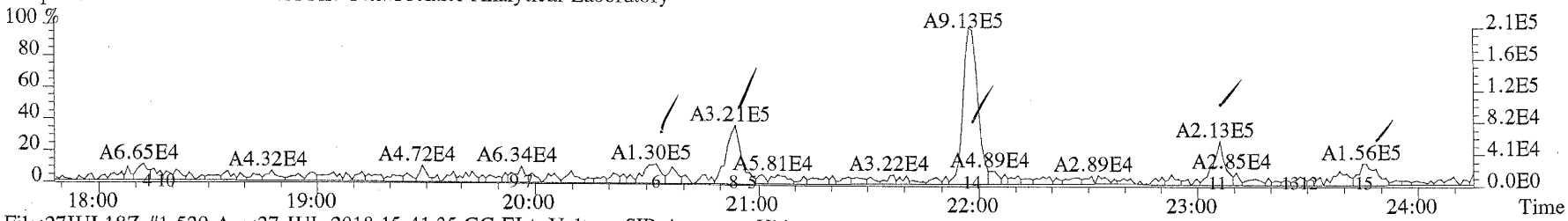
File:27JUL18Z #1-783 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



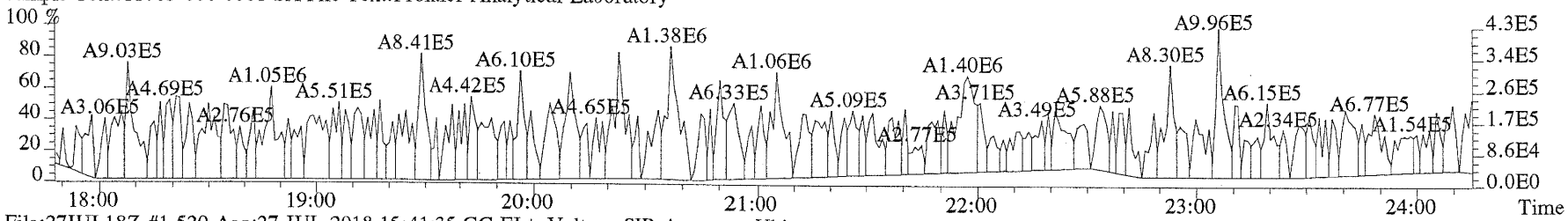
File:27JUL18Z #1-783 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



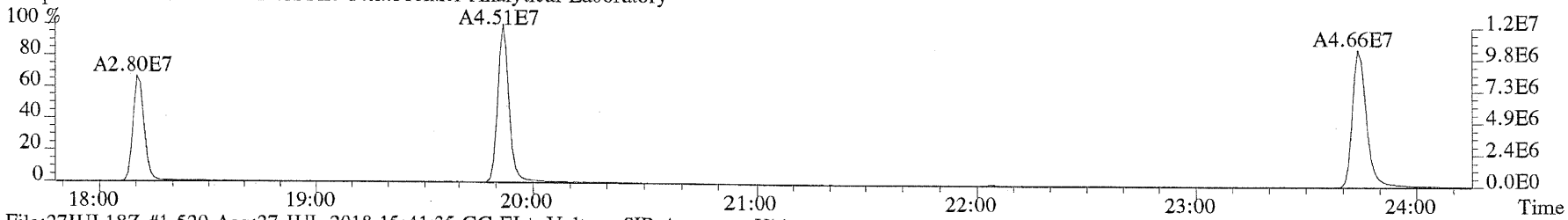
File:27JUL18Z #1-520 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



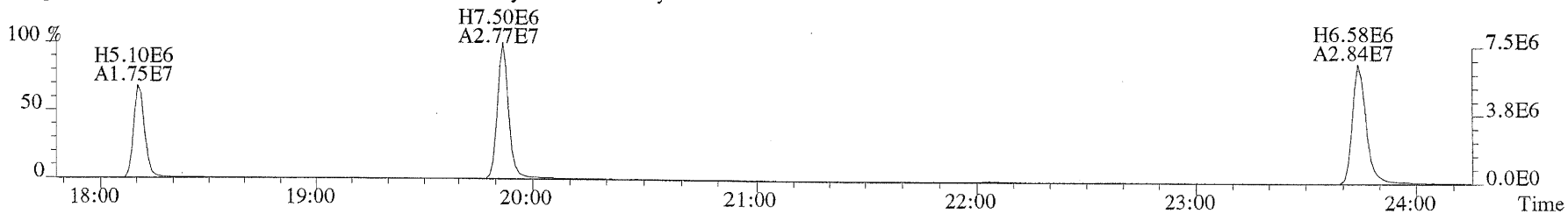
File:27JUL18Z #1-520 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



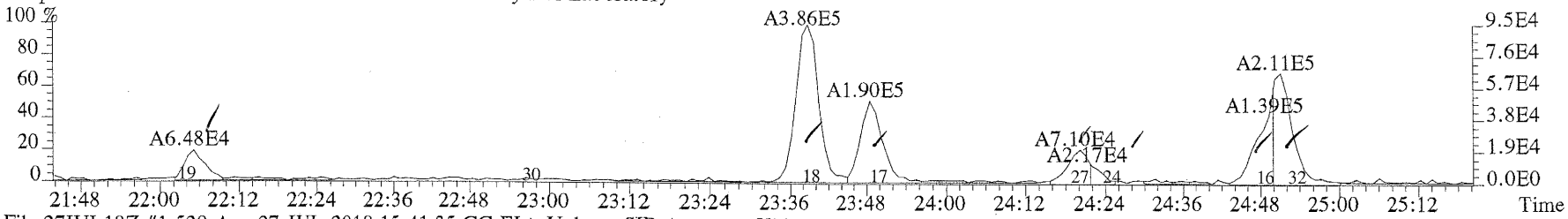
File:27JUL18Z #1-520 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



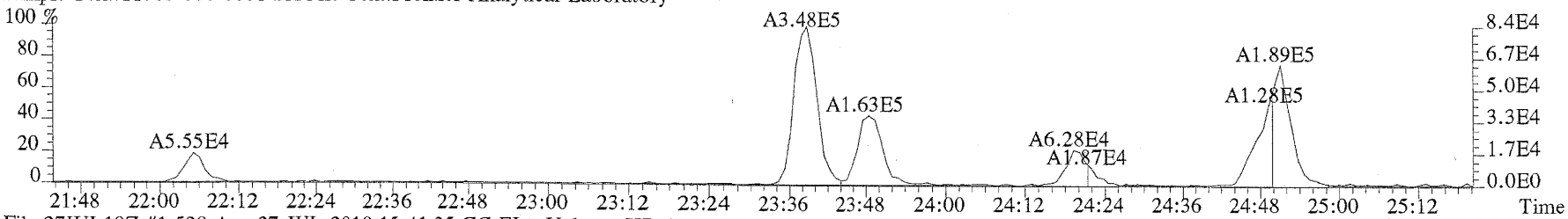
File:27JUL18Z #1-520 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:8 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



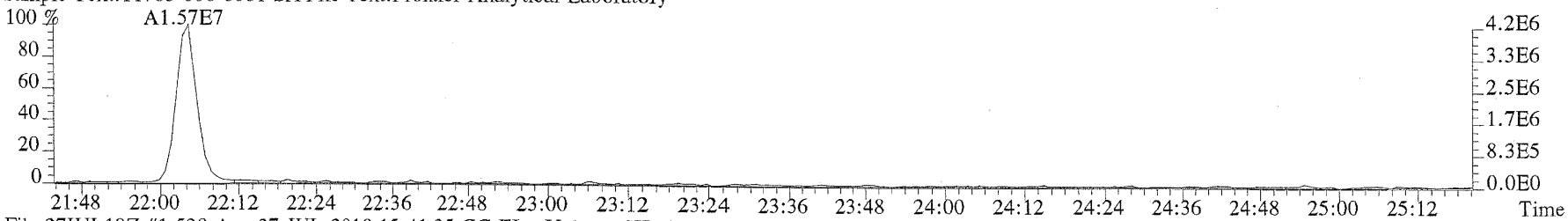
File:27JUL18Z #1-520 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



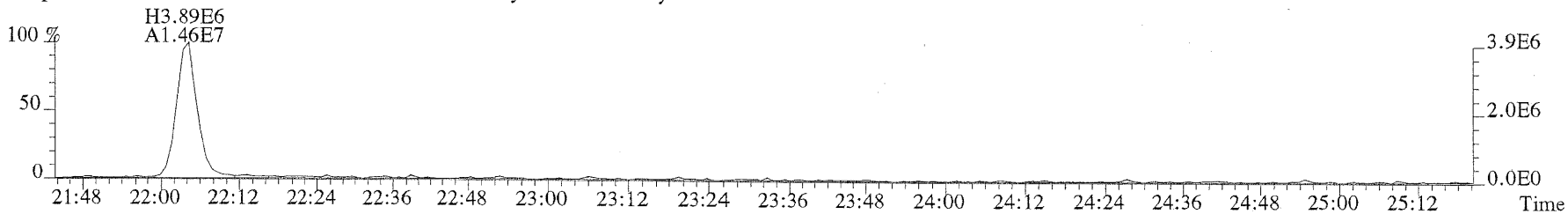
File:27JUL18Z #1-520 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



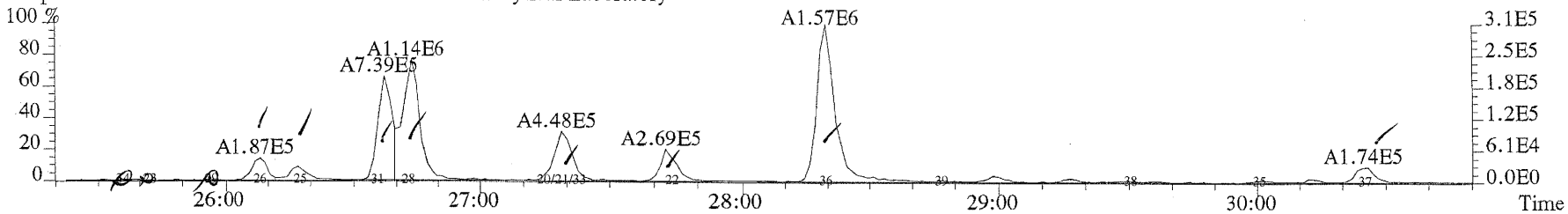
File:27JUL18Z #1-520 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



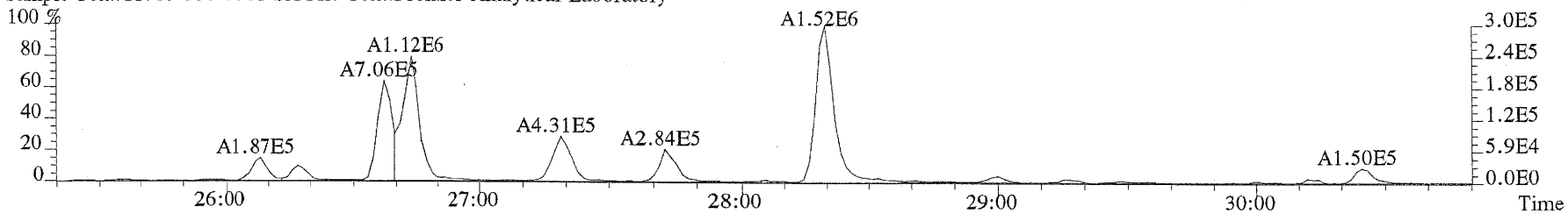
File:27JUL18Z #1-520 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



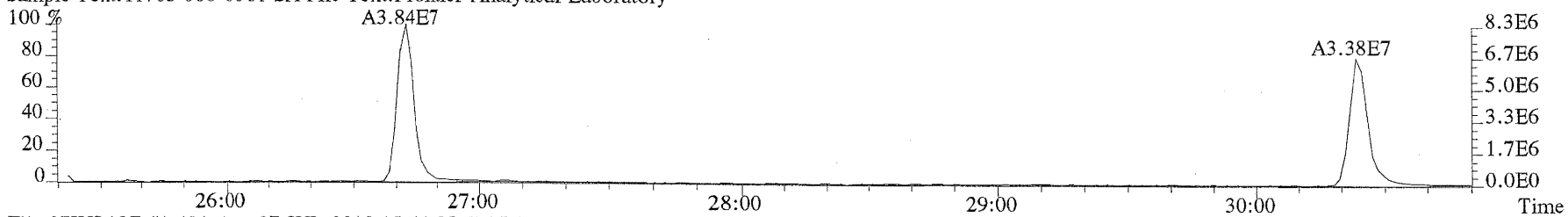
File:27JUL18Z #1-401 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



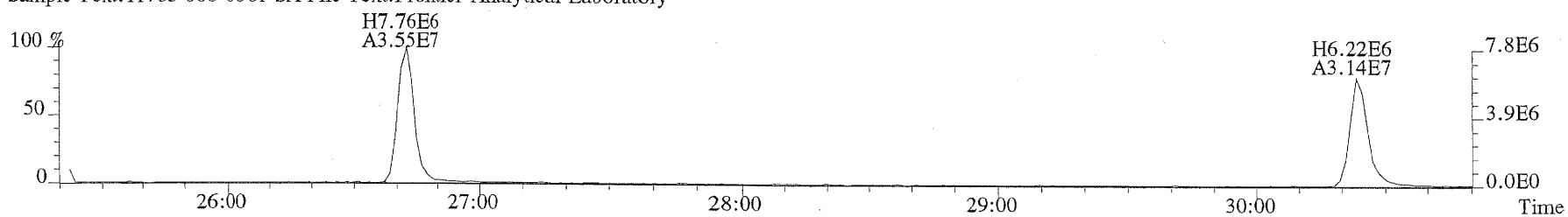
File:27JUL18Z #1-401 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



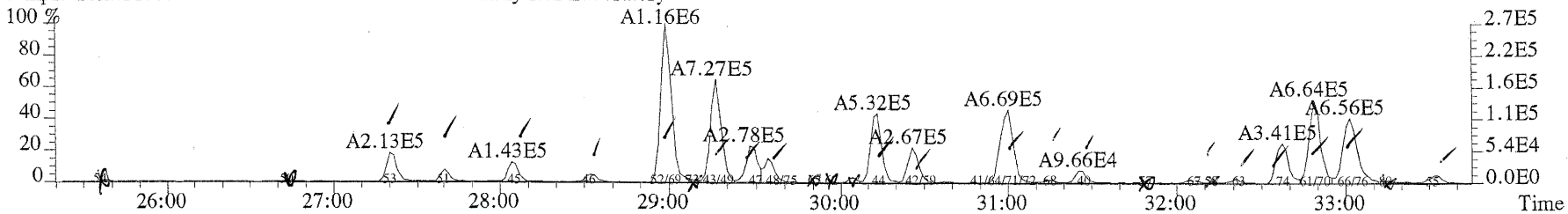
File:27JUL18Z #1-401 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



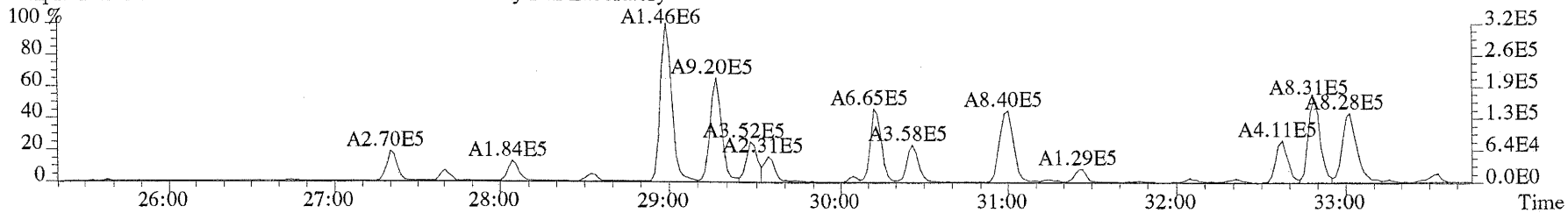
File:27JUL18Z #1-401 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



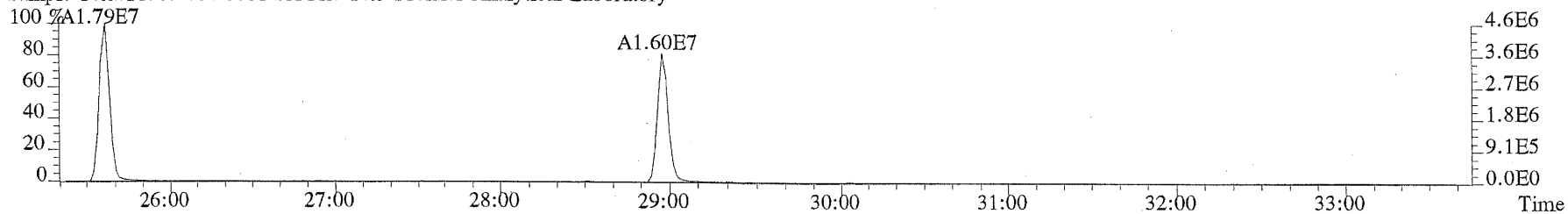
File:27JUL18Z #1-401 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



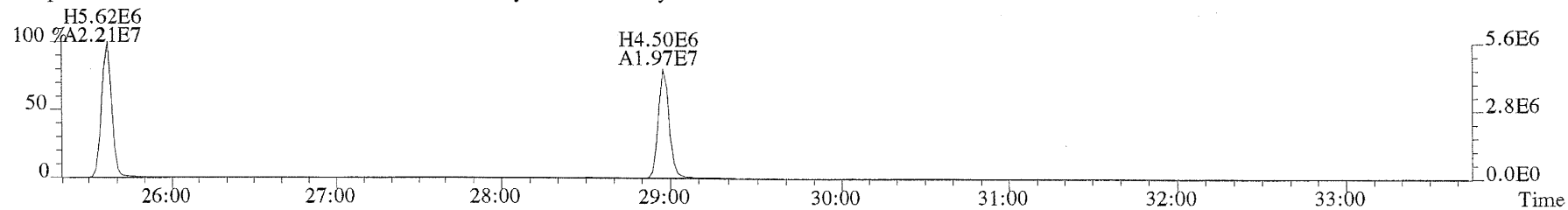
File:27JUL18Z #1-401 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



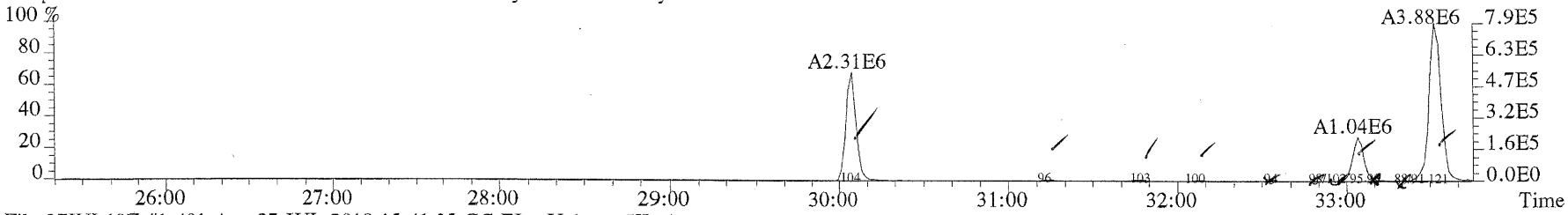
File:27JUL18Z #1-401 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



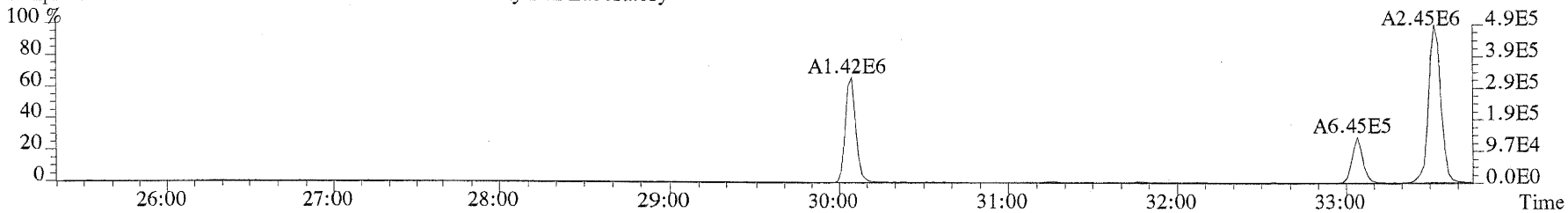
File:27JUL18Z #1-401 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



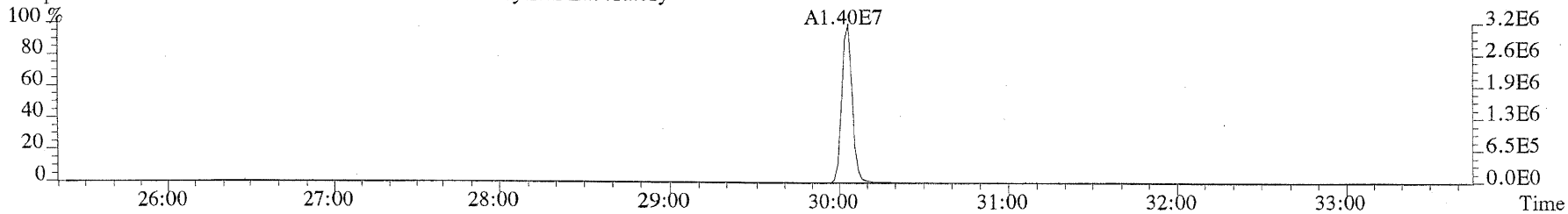
File:27JUL18Z #1-401 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



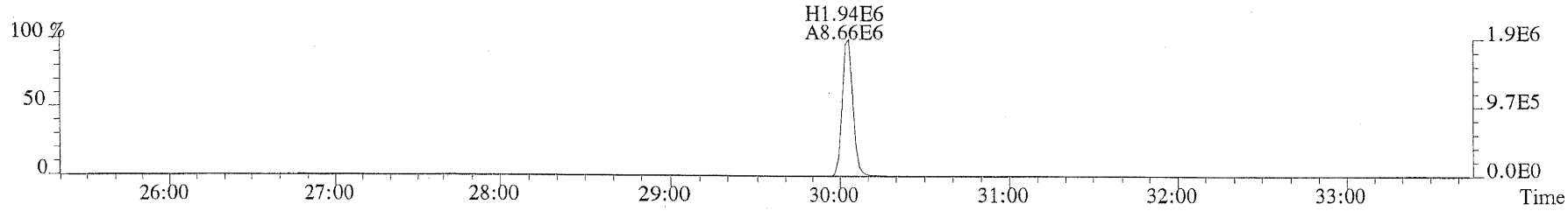
File:27JUL18Z #1-401 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



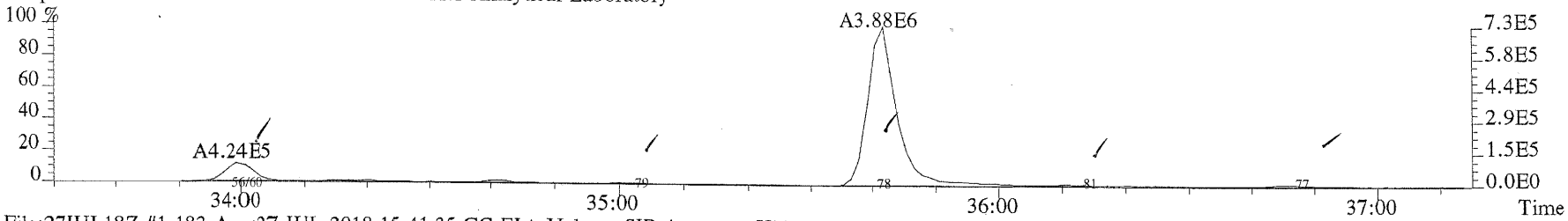
File:27JUL18Z #1-401 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



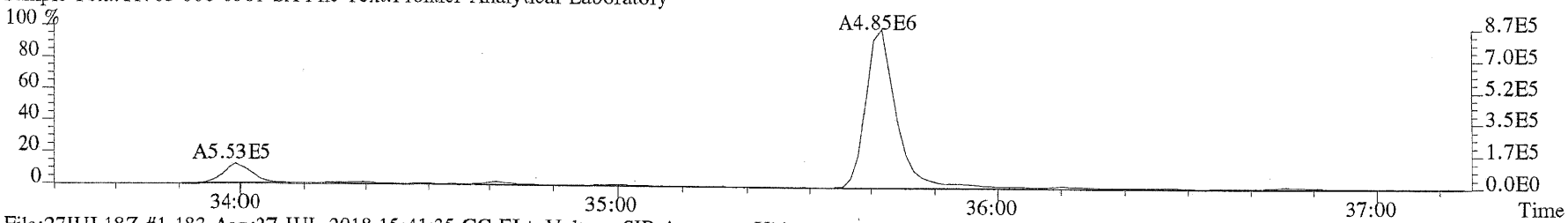
File:27JUL18Z #1-401 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



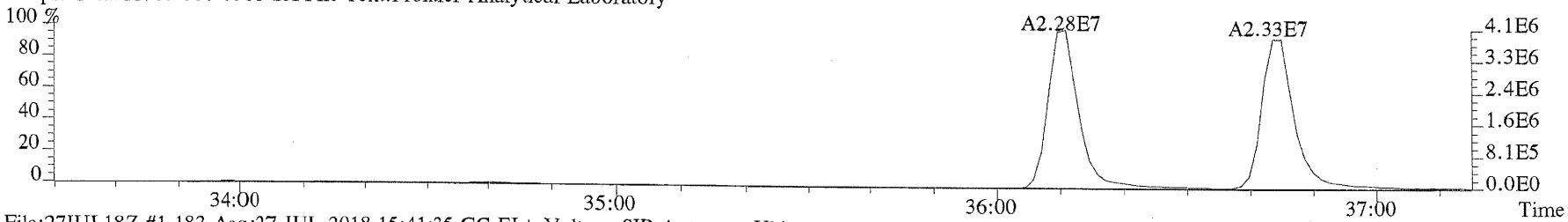
File:27JUL18Z #1-183 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



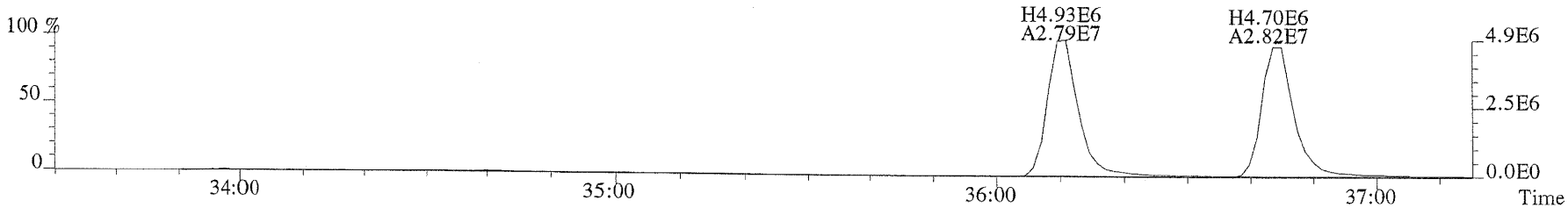
File:27JUL18Z #1-183 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



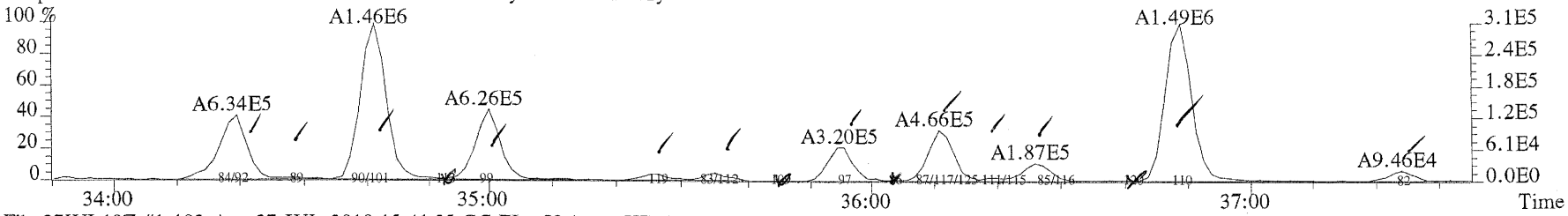
File:27JUL18Z #1-183 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



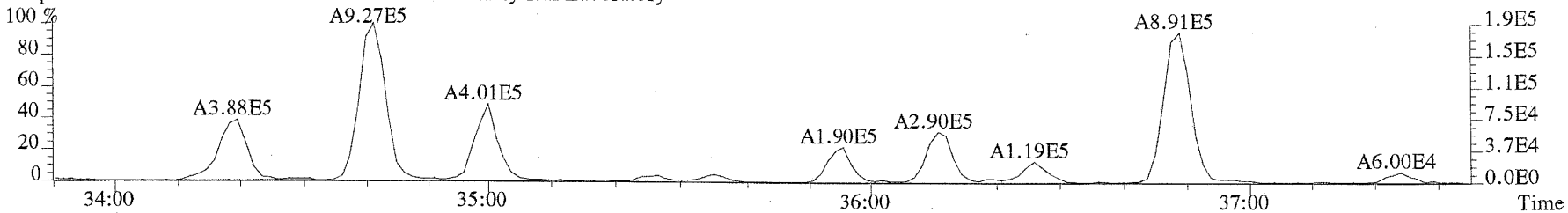
File:27JUL18Z #1-183 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



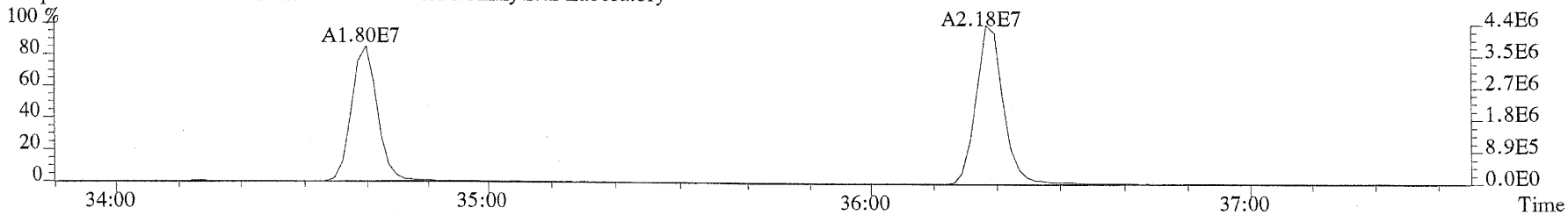
File:27JUL18Z #1-183 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



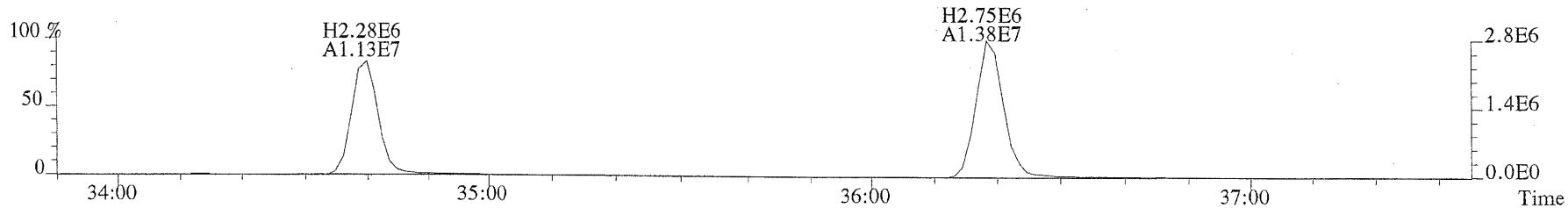
File:27JUL18Z #1-183 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



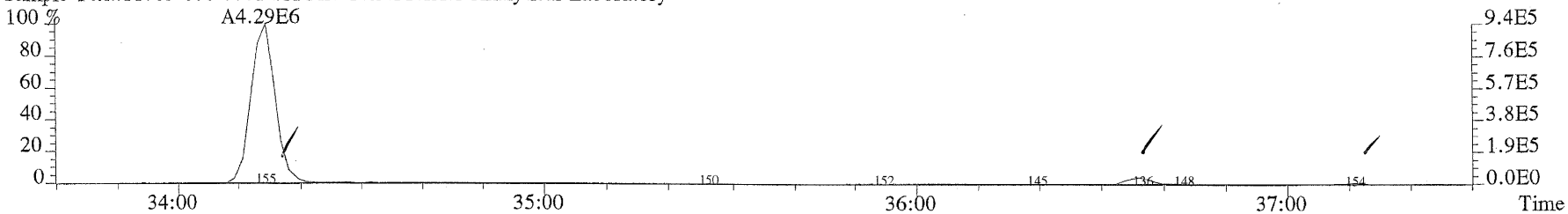
File:27JUL18Z #1-183 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



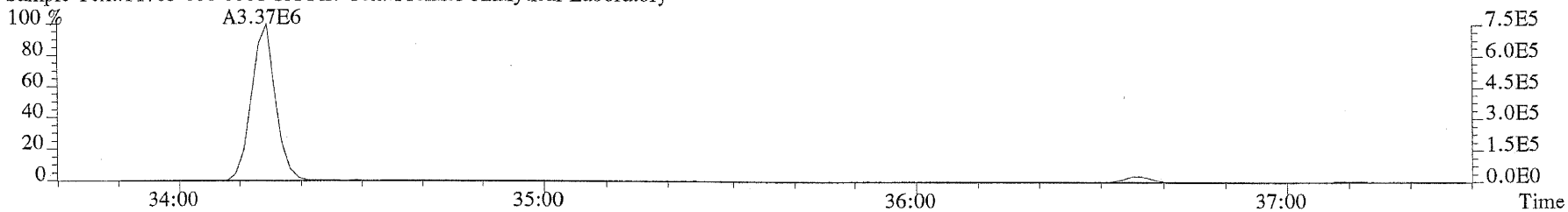
File:27JUL18Z #1-183 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



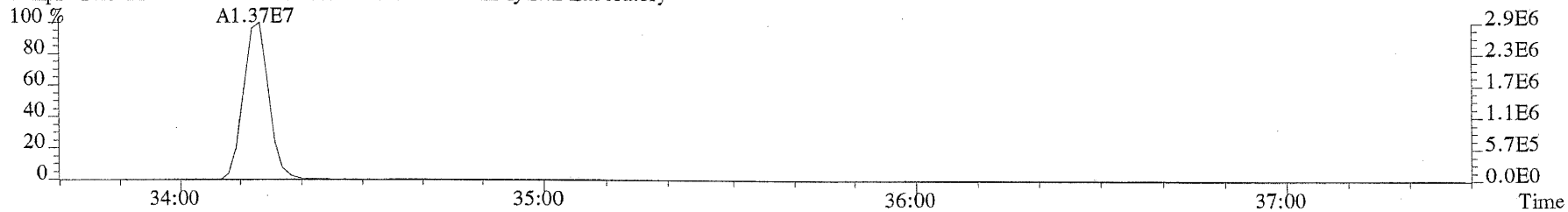
File:27JUL18Z #1-183 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



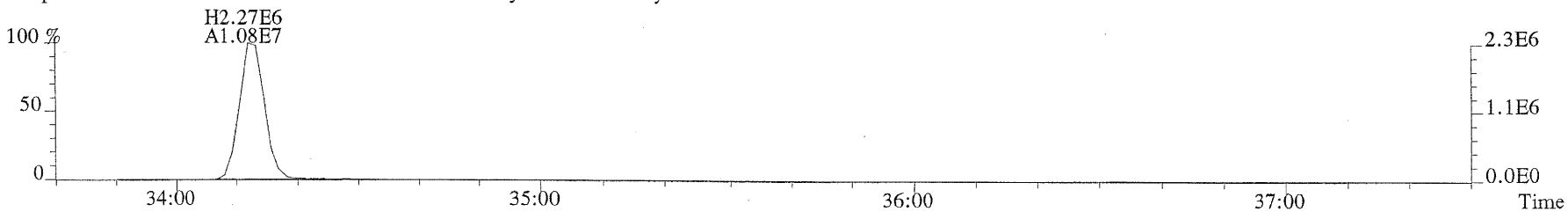
File:27JUL18Z #1-183 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



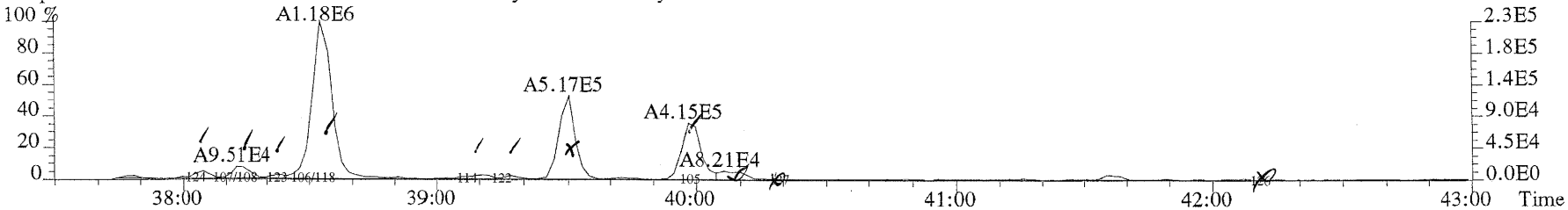
File:27JUL18Z #1-183 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



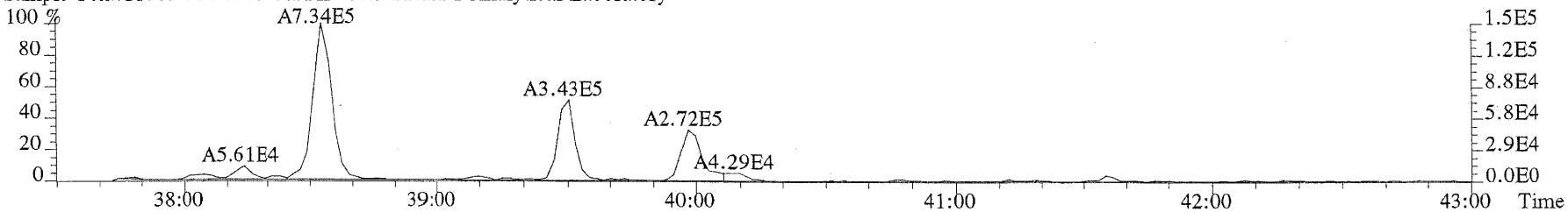
File:27JUL18Z #1-183 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



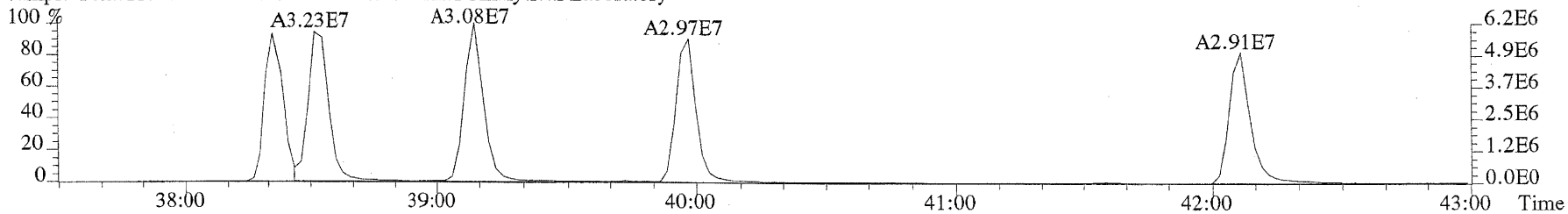
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



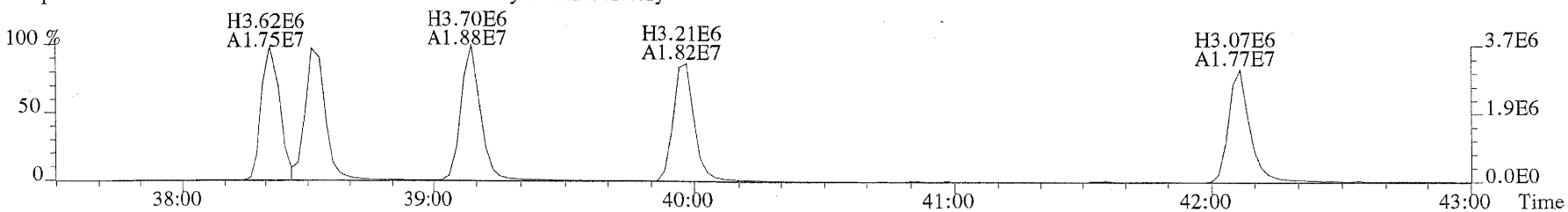
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



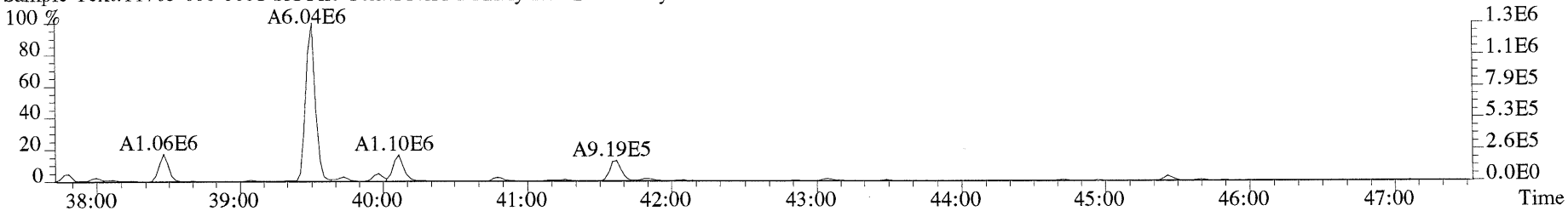
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



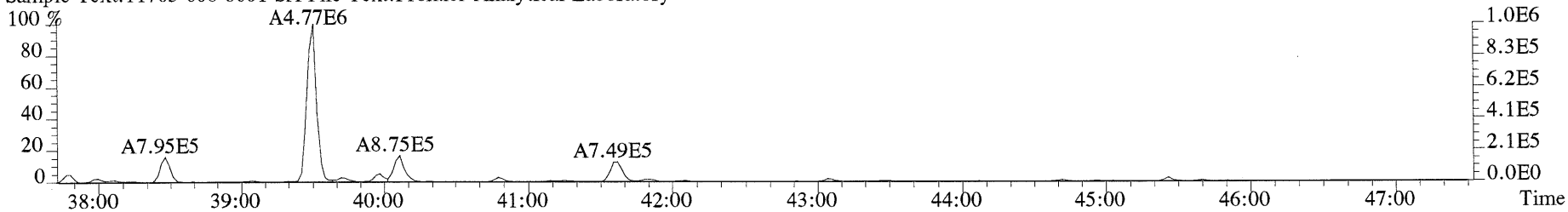
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



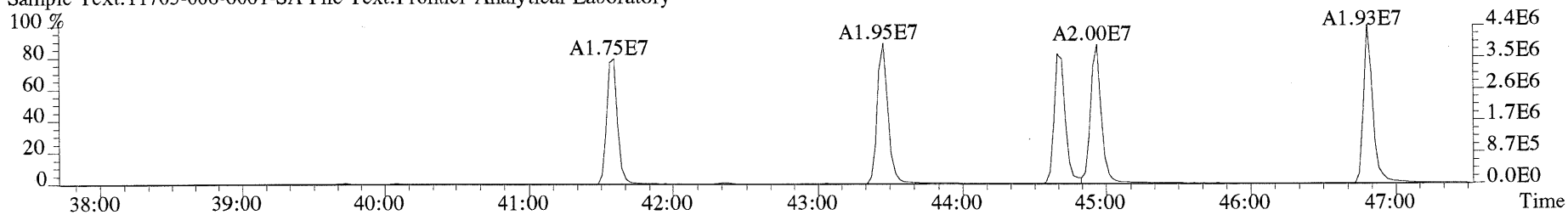
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



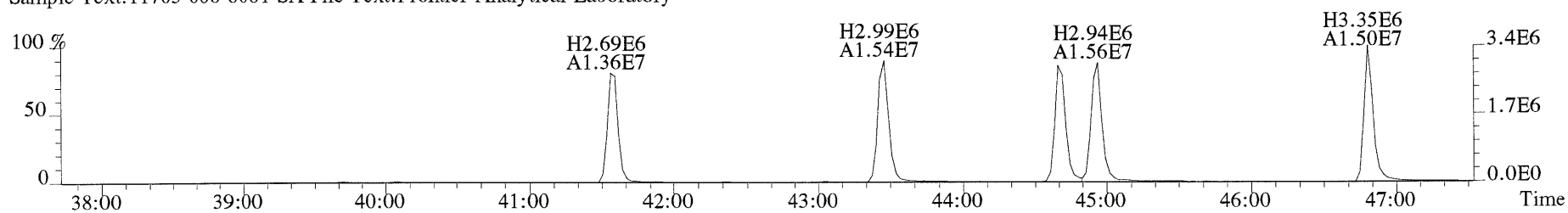
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



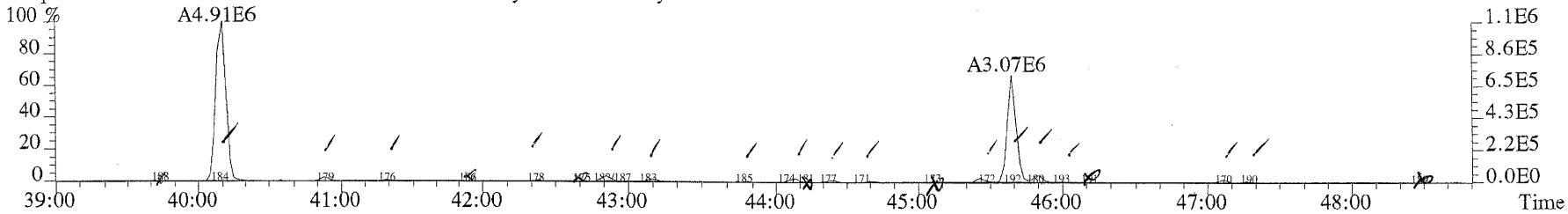
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



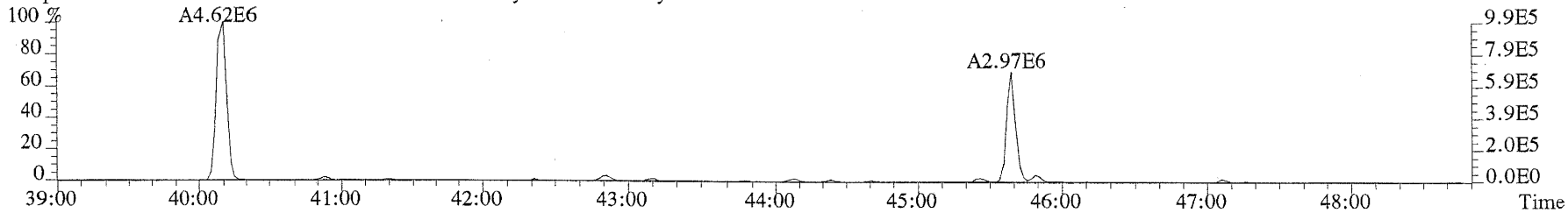
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



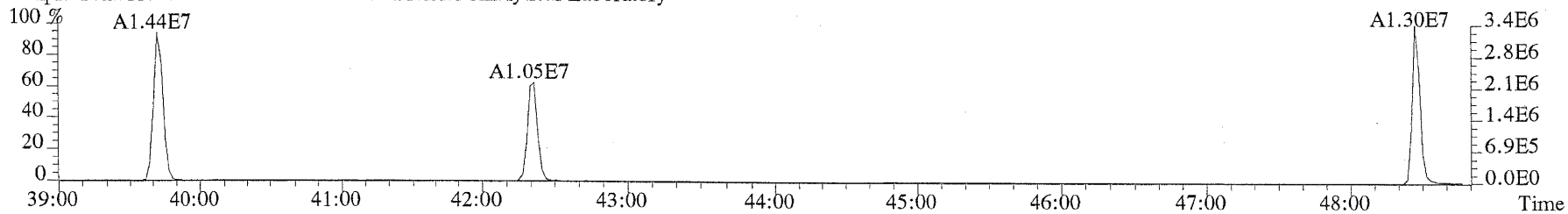
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



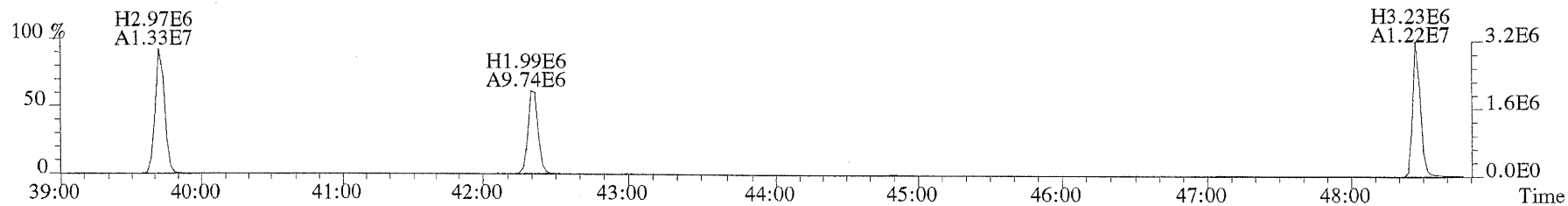
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



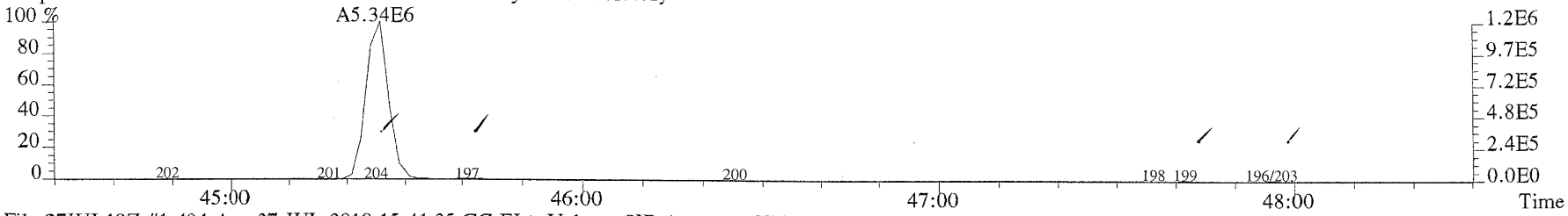
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



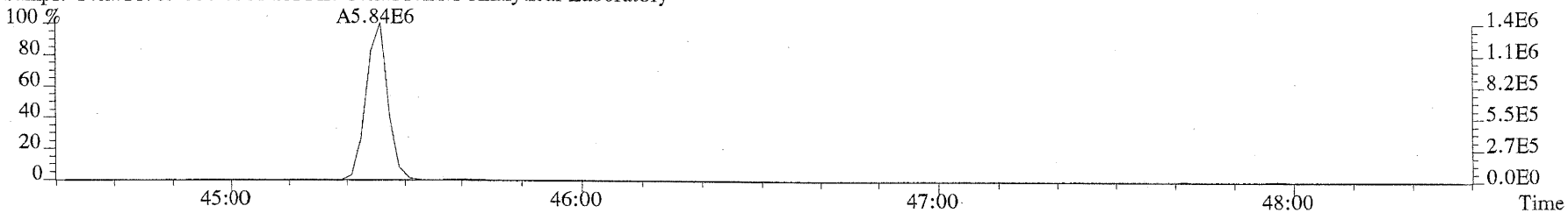
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



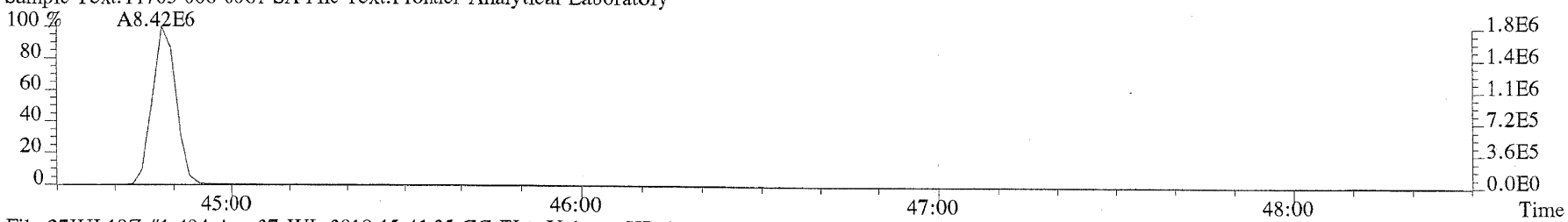
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



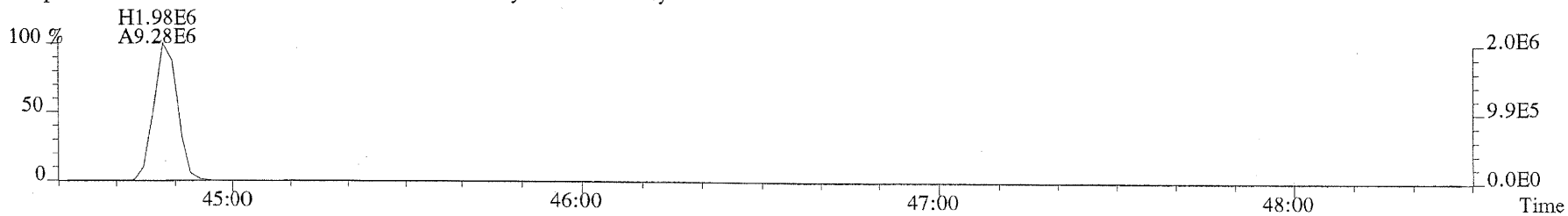
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



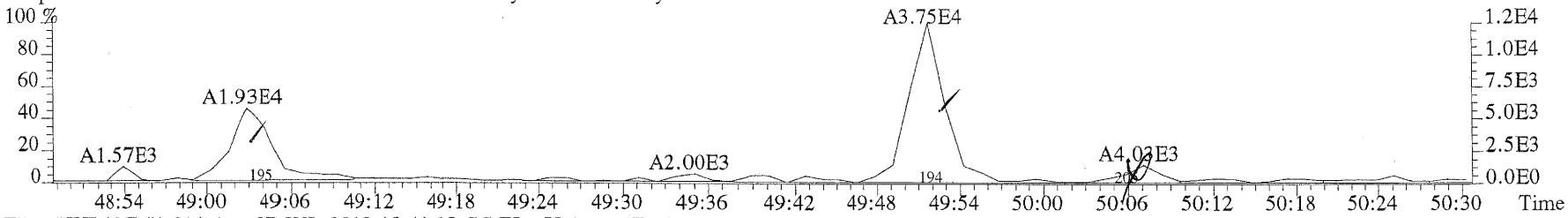
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



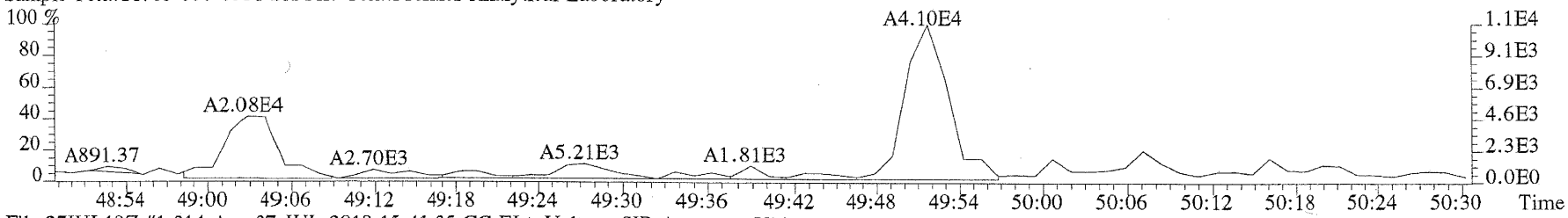
File:27JUL18Z #1-404 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



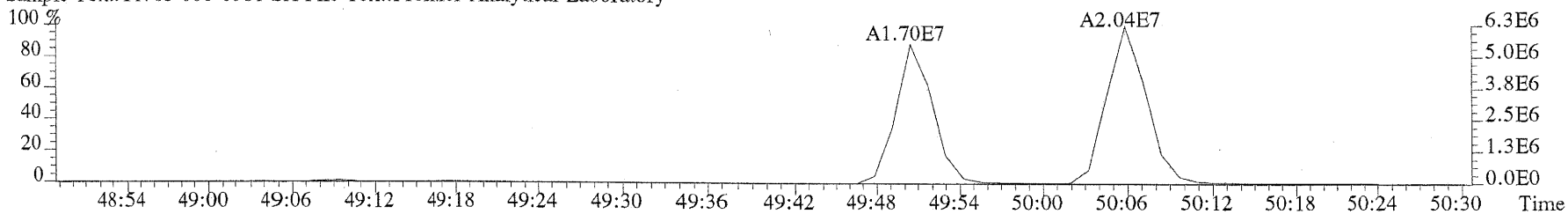
File:27JUL18Z #1-314 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



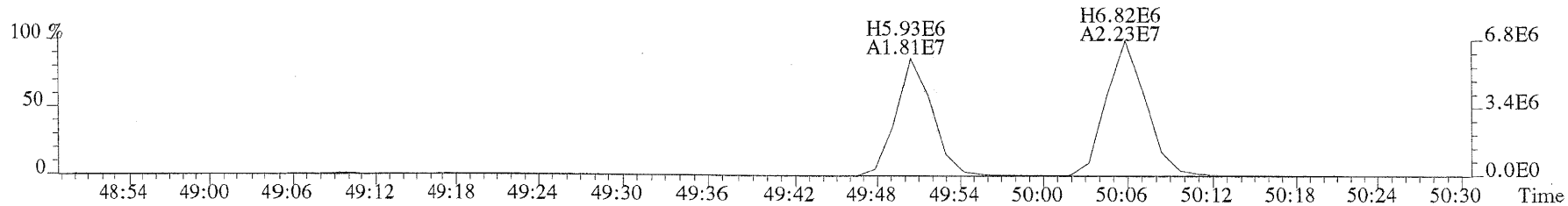
File:27JUL18Z #1-314 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



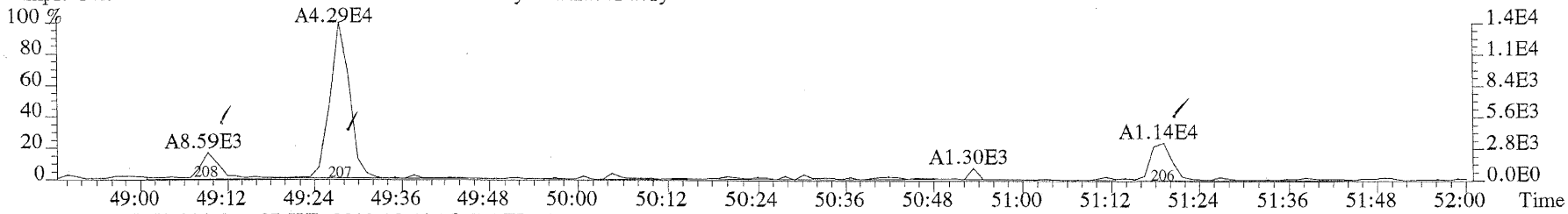
File:27JUL18Z #1-314 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



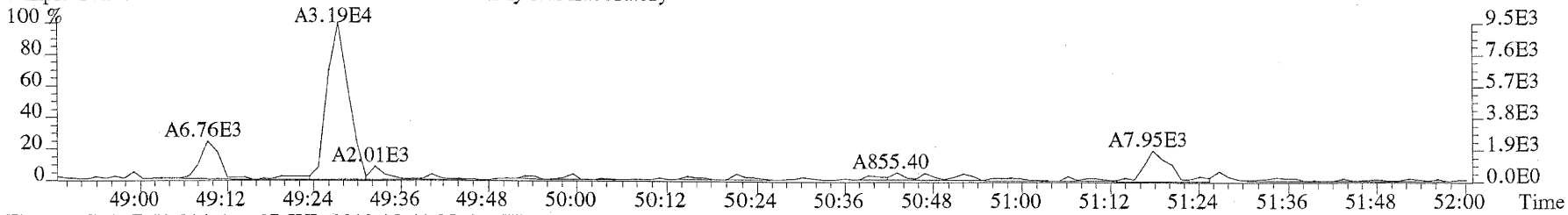
File:27JUL18Z #1-314 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



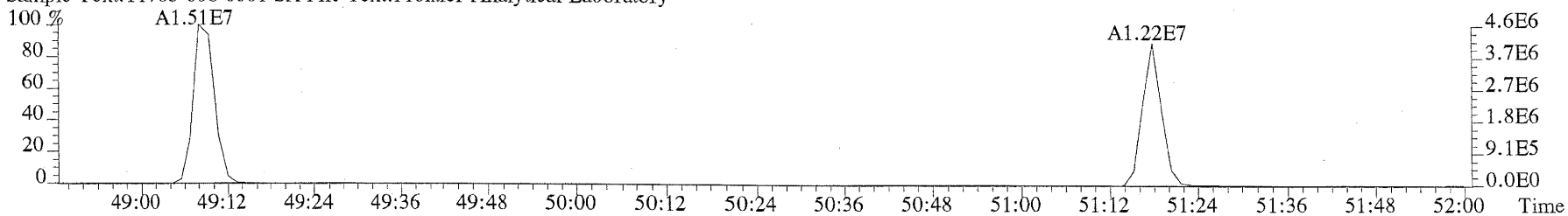
File:27JUL18Z #1-314 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



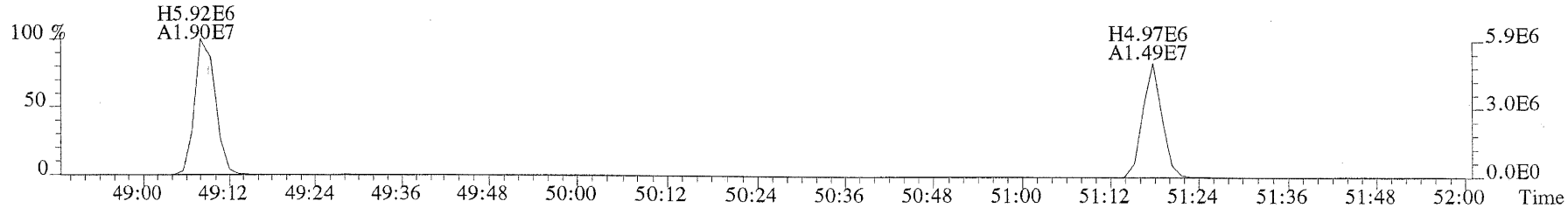
File:27JUL18Z #1-314 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



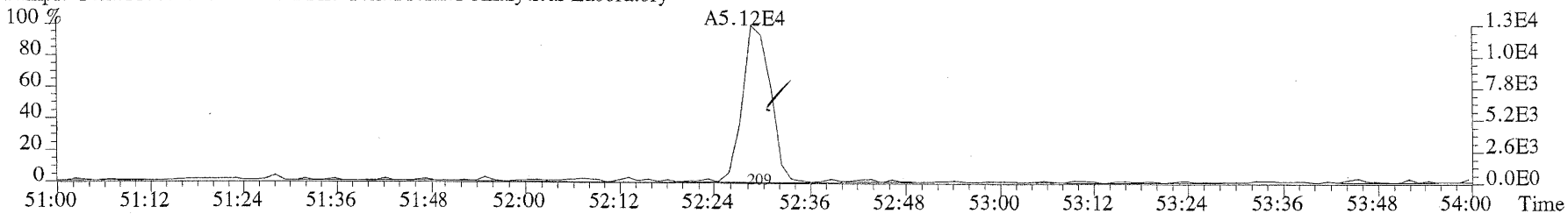
File:27JUL18Z #1-314 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



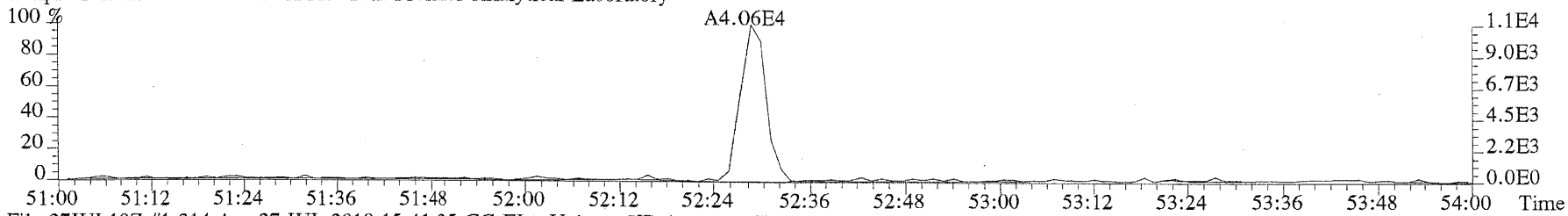
File:27JUL18Z #1-314 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



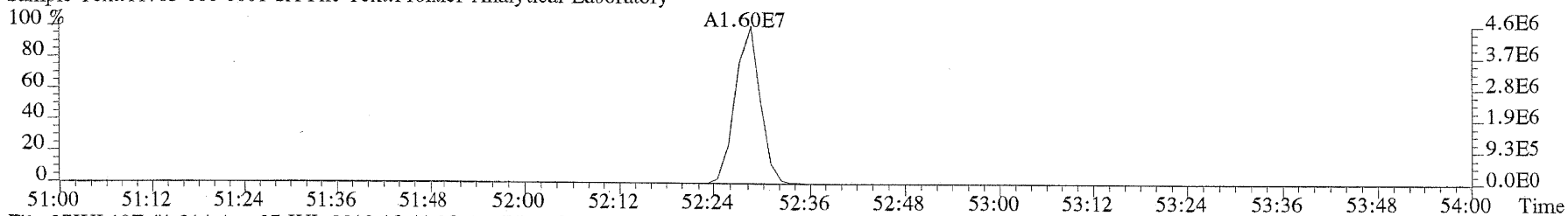
File:27JUL18Z #1-314 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



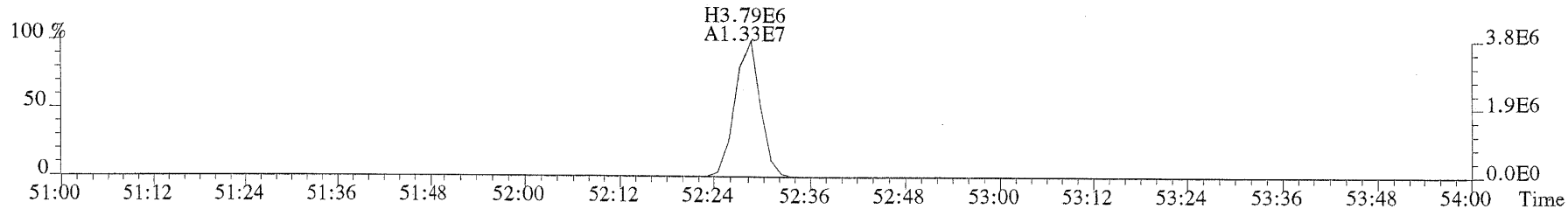
File:27JUL18Z #1-314 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 15:41:35 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-006-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11703-007-0001-SA Filename: 27JUL18Z Sam:9 Acquired: 27-JUL-18 16:40:21 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SC-ENR-CB-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	*	n	NotFnd	1.17	*		1870	1300	3.34			
13C-PCB-1	6.08e+07	3.18	y	14:30	0.92	8400					84.0	1.55e+07	4.84e+06
PCB-2	*	*	n	NotFnd	1.05	*		1870	1300	3.96			
PCB-3	*	*	n	NotFnd	1.16	*		1870	1300	3.78			
13C-PCB-3	6.26e+07	3.24	y	16:57	0.93	8550					85.5	1.38e+07	4.26e+06
PCB-4	2.26e+05	1.42	y	18:11	1.42	33.2		-	-	*			
PCB-10	*	*	n	NotFnd	1.21	*		1440	2650	5.45			
13C-PCB-4	4.80e+07	1.62	y	18:10	0.68	9040					90.4	8.75e+06	5.50e+06
PCB-9	*	*	n	NotFnd	1.40	*		1440	2650	4.71			
PCB-7	*	*	n	NotFnd	1.40	*		1440	2650	4.73			
PCB-6	3.30e+05	1.54	y	20:31	1.33	41.2		-	-	*			
PCB-8	6.50e+05	1.48	y	20:53	1.35	80.0		-	-	*			
PCB-5	*	*	n	NotFnd	1.35	*		1440	2650	4.89			
PCB-14	2.36e+06	1.63	y	21:57	1.31	300		-	-	*			
PCB-11	6.22e+05	1.36	y	23:04	1.24	83.4		-	-	*			
PCB-13	*	*	n	NotFnd	1.32	*		1440	2650	5.01			
PCB-12	*	*	n	NotFnd	1.30	*		1440	2650	5.09			
PCB-15	3.44e+05	1.41	y	23:44	1.26	37.8		-	-	*			
13C-PCB-15	7.22e+07	1.62	y	23:43	1.00	9180					91.8	1.01e+07	6.29e+06
PCB-19	1.29e+05	1.02	y	22:04	1.19	35.5		-	-	*			
PCB-30	*	*	n	NotFnd	1.63	*		1800	488	4.50			
PCB-18	8.53e+05	1.07	y	23:38	1.14	245		-	-	*			
PCB-17	4.12e+05	1.12	y	23:48	1.23	109		-	-	*			
PCB-27	9.72e+04	1.09	y	24:19	1.49	21.4		-	-	*			
PCB-24	8.79e+04	1.16	y	24:20	1.69	17.0	J	-	-	*			
PCB-16	2.91e+05	1.10	y	24:49	1.36	70.2		-	-	*			
PCB-32	4.65e+05	1.09	y	24:50	1.41	108		-	-	*			
13C-PCB-19	3.05e+07	1.10	y	22:03	0.44	8760					87.6	4.03e+06	3.79e+06
13C-PCB-9	7.85e+07	1.65	y	19:51	-	68.7							
PCB-34	*	*	n	NotFnd	1.03	*		2150	1370	7.56			
PCB-23	*	*	n	NotFnd	1.10	*		2150	1370	7.07			
PCB-29	*	*	n	NotFnd	1.14	*		2150	1370	6.79			
PCB-26	4.41e+05	1.08	y	26:07	1.04	66.7		-	-	*			
PCB-25	2.82e+05	1.05	y	26:17	1.36	32.8		-	-	*			
PCB-31	1.78e+06	1.04	y	26:36	1.12	251		-	-	*			
PCB-28	2.27e+06	1.03	y	26:42	1.44	250		-	-	*			
PCB-20	1.00e+06	1.02	y	27:19	1.24	128		-	-	*		Co-elute PCB 21/33	
PCB-21	1.00e+06	1.02	y	27:19	1.24	128		-	-	*		Co-elute PCB 20/33	
PCB-33	1.00e+06	1.02	y	27:19	1.24	128		-	-	*		Co-elute PCB 20/21	
PCB-22	6.22e+05	1.09	y	27:43	1.24	79.3		-	-	*			
PCB-36	4.26e+06	1.08	y	28:18	1.13	598		-	-	*			
PCB-39	*	*	n	NotFnd	1.16	*		2150	1370	6.71			
PCB-38	*	*	n	NotFnd	1.12	*		2150	1370	6.95			
PCB-35	*	*	n	NotFnd	1.08	*		2150	1370	7.21			
PCB-37	3.30e+05	1.07	y	30:25	1.22	42.8		-	-	*			
13C-PCB-37	6.33e+07	1.08	y	30:24	1.72	9970					99.7	5.90e+06	5.42e+06

PCB-54	2.80e+04	0.82	y	25:37	1.21	6.00	J	-	-	*			
PCB-50	2.50e+04	0.76	y	26:44	0.91	7.14	J	-	-	*			
PCB-53	4.34e+05	0.76	y	27:20	0.93	121		-	-	*			
PCB-51	1.68e+05	0.74	y	27:39	0.95	45.9		-	-	*			
PCB-45	2.97e+05	0.84	y	28:03	0.79	97.7		-	-	*			
PCB-46	1.29e+05	0.77	y	28:31	0.78	43.0		-	-	*			
PCB-52	2.45e+06	0.79	y	28:58	1.13	559		-	-	*	Co-elute PCB 69		
PCB-69	2.45e+06	0.79	y	28:58	1.13	559		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.11	*		708	1240	4.70			
PCB-43	1.50e+06	0.82	y	29:15	0.88	443		-	-	*	Co-elute PCB 49		
PCB-49	1.50e+06	0.82	y	29:15	0.88	443		-	-	*	Co-elute PCB 43		
PCB-47	5.58e+05	0.72	y	29:28	1.04	139		-	-	*			
PCB-48	4.11e+05	0.85	y	29:34	1.14	93.1		-	-	*	Co-elute PCB 75		
PCB-75	4.11e+05	0.85	y	29:34	1.14	93.1		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.15	*		708	1240	4.54			
PCB-62	*	*	n	NotFnd	1.10	*		708	1240	4.76			
PCB-44	1.10e+06	0.85	y	30:12	0.80	355		-	-	*			
PCB-42	6.11e+05	0.78	y	30:26	1.07	148		-	-	*	Co-elute PCB 59		
PCB-59	6.11e+05	0.78	y	30:26	1.07	148		-	-	*	Co-elute PCB 42		
PCB-72	1.38e+06	0.82	y	30:59	1.14	314		-	-	*	Co-elute PCB 41/71/64		
PCB-41	1.38e+06	0.82	y	30:59	1.14	314		-	-	*	Co-elute PCB 72/71/64		
PCB-71	1.38e+06	0.82	y	30:59	1.14	314		-	-	*	Co-elute PCB 72/41/64		
PCB-64	1.38e+06	0.82	y	30:59	1.14	314		-	-	*	Co-elute PCB 72/41/71		
PCB-68	6.12e+04	0.84	y	31:13	1.22	13.0	J	-	-	*			
PCB-40	2.15e+05	0.83	y	31:25	0.70	79.5		-	-	*			
PCB-57	2.34e+04	0.82	y	31:48	1.10	5.51	J	-	-	*			
PCB-67	5.68e+04	0.69	y	32:05	1.18	12.4	J	-	-	*			
PCB-58	*	*	n	NotFnd	1.07	*		708	1240	4.87			
PCB-63	6.54e+04	0.83	y	32:20	1.12	15.1	J	-	-	*			
PCB-74	6.89e+05	0.77	y	32:36	1.25	142		-	-	*			
PCB-61	1.34e+06	0.80	y	32:48	1.19	293		-	-	*	Co-elute PCB 70		
PCB-70	1.34e+06	0.80	y	32:48	1.19	293		-	-	*	Co-elute PCB 61		
PCB-76	1.42e+06	0.79	y	33:00	1.18	313		-	-	*	Co-elute PCB 66		
PCB-66	1.42e+06	0.79	y	33:00	1.18	313		-	-	*	Co-elute PCB 76		
PCB-80	3.63e+04	0.70	y	33:14	1.28	7.32	J	-	-	*			
PCB-55	1.77e+05	0.68	y	33:31	1.17	39.1		-	-	*			
13C-PCB-54	3.87e+07	0.82	y	25:35	1.14	9170					91.7	4.16e+06	5.16e+06
PCB-104	4.16e+06	1.56	y	30:03	1.26	1490		-	-	*			
PCB-96	2.47e+04	1.76	y	31:13	1.11	9.99	J	-	-	*			
PCB-103	4.69e+04	1.64	y	31:46	0.97	21.8		-	-	*			
PCB-100	3.34e+04	1.52	y	32:06	0.97	15.5	J	-	-	*			
PCB-94	*	*	n	NotFnd	0.82	*		304	324	3.70			
PCB-98	*	*	n	NotFnd	0.44	*		304	324	6.85	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.44	*		304	324	6.85	Co-elute PCB 98		
PCB-95	1.48e+06	1.61	y	33:04	0.89	753		-	-	*			
PCB-93	1.48e+06	1.61	y	33:04	0.82	820		304	324	3.73			
PCB-88	*	*	n	NotFnd	0.91	*		304	324	3.36	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	0.91	*		304	324	3.36	Co-elute PCB 88		
PCB-121	7.64e+06	1.61	y	33:32	1.08	3190		-	-	*			
13C-PCB-104	2.22e+07	1.60	y	30:02	0.64	9450					94.5	3.23e+06	1.95e+06
13C-PCB-28	7.17e+07	1.08	y	26:41	1.96	9860					98.6	8.44e+06	7.76e+06
13C-PCB-52	3.70e+07	0.81	y	28:56	-	66.4							

PCB-56	8.94e+05	0.79	y	33:59	1.22	151		-	-	*		Co-elute PCB 60
PCB-60	8.94e+05	0.79	y	33:59	1.22	151		-	-	*		Co-elute PCB 56
PCB-79	4.56e+04	0.80	y	35:00	1.22	7.76	J	-	-	*		
PCB-78	1.14e+07	0.82	y	35:41	1.17	2010		-	-	*		
PCB-81	1.37e+05	0.82	y	36:10	1.24	23.0		-	-	*		
13C-PCB-81	4.81e+07	0.82	y	36:10	1.62	9560					95.6	3.95e+06 4.82e+06
PCB-77	1.19e+05	0.85	y	36:45	1.18	21.0		-	-	*		
13C-PCB-77	4.84e+07	0.82	y	36:44	1.62	9610					96.1	3.65e+06 4.47e+06
PCB-155	8.94e+06	1.27	y	34:13	1.16	3120		-	-	*		
PCB-150	*	*	n	NotFnd	1.03	*		396	332	3.20		
PCB-152	*	*	n	NotFnd	0.97	*		396	332	3.39		
PCB-145	*	*	n	NotFnd	1.00	*		396	332	3.31		
PCB-136	2.56e+05	1.16	y	36:35	0.89	116		-	-	*		
PCB-148	*	*	n	NotFnd	0.83	*		396	332	3.99		
PCB-154	4.73e+04	1.28	y	37:09	0.88	21.7		-	-	*		
13C-PCB-155	2.48e+07	1.30	y	34:12	0.86	9300					93.0	3.13e+06 2.39e+06
13C-PCB-111	3.39e+07	1.61	y	36:19	1.16	9350					93.5	4.29e+06 2.64e+06
13C-PCB-101	3.11e+07	1.63	y	34:39	-	70.4						
PCB-84	9.44e+05	1.56	y	34:18	0.65	317		-	-	*		Co-elute PCB 92
PCB-92	9.44e+05	1.56	y	34:18	0.65	317		-	-	*		Co-elute PCB 84
PCB-89	3.08e+04	1.65	y	34:30	0.62	10.8	J	-	-	*		
PCB-90	2.04e+06	1.66	y	34:41	0.71	622		-	-	*		Co-elute PCB 101
PCB-101	2.04e+06	1.66	y	34:41	0.71	622		-	-	*		Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.75	*		810	770	6.11		
PCB-99	9.15e+05	1.64	y	34:59	0.84	236		-	-	*		
PCB-119	8.07e+04	1.60	y	35:25	0.90	19.5	J	-	-	*		
PCB-83	1.05e+05	1.72	y	35:34	0.70	32.4		-	-	*		Co-elute PCB 112
PCB-112	1.05e+05	1.72	y	35:34	0.70	32.4		-	-	*		Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.85	*		810	770	5.35		
PCB-97	4.57e+05	1.44	y	35:54	0.78	128		-	-	*		
PCB-86	*	*	n	NotFnd	0.66	*		810	770	6.95		
PCB-125	6.62e+05	1.55	y	36:11	0.80	181		-	-	*		Co-elute PCB 87/117
PCB-87	6.62e+05	1.55	y	36:11	0.80	181		-	-	*		Co-elute PCB 125/117
PCB-117	6.62e+05	1.55	y	36:11	0.80	181		-	-	*		Co-elute PCB 125/87
PCB-111	6.19e+04	1.64	y	36:21	0.98	13.8	J	-	-	*		Co-elute PCB 115
PCB-115	6.19e+04	1.64	y	36:21	0.98	13.8	J	-	-	*		Co-elute PCB 111
PCB-85	2.56e+05	1.47	y	36:26	0.77	72.5		-	-	*		Co-elute PCB 116
PCB-116	2.56e+05	1.47	y	36:26	0.77	72.5		-	-	*		Co-elute PCB 85
PCB-120	7.30e+03	2.02	n	36:35	0.89	1.78		810	770	5.11		
PCB-110	2.01e+06	1.54	y	36:48	0.92	473		-	-	*		
PCB-82	1.40e+05	1.60	y	37:24	0.51	59.3		-	-	*		
PCB-124	8.97e+04	1.33	y	38:05	1.11	17.6	J	-	-	*		
PCB-108	1.43e+05	1.61	y	38:13	1.18	26.4		-	-	*		Co-elute PCB 107
PCB-107	1.43e+05	1.61	y	38:13	1.18	26.4		-	-	*		Co-elute PCB 108
PCB-123	3.48e+04	1.47	y	38:24	1.37	5.90	J	-	-	*		
13C-PCB-123	4.29e+07	1.61	y	38:21	1.46	9250					92.5	5.24e+06 3.20e+06
PCB-118	1.59e+06	1.57	y	38:33	1.09	299		-	-	*		Co-elute PCB 106
PCB-106	1.59e+06	1.57	y	38:33	1.09	299		-	-	*		Co-elute PCB 118
13C-PCB-118	4.85e+07	1.67	y	38:31	1.59	9620					96.2	5.75e+06 3.44e+06
PCB-114	5.45e+04	1.56	y	39:09	1.18	9.76	J	-	-	*		
13C-PCB-114	4.74e+07	1.67	y	39:09	1.51	9890					98.9	5.41e+06 3.22e+06
PCB-122	2.50e+04	1.44	y	39:16	1.15	4.74	J	-	-	*		
PCB-105	5.08e+05	1.77	y	39:58	1.14	98.8		-	-	*		
13C-PCB-105	4.50e+07	1.63	y	39:57	1.47	9640					96.4	5.14e+06 3.18e+06

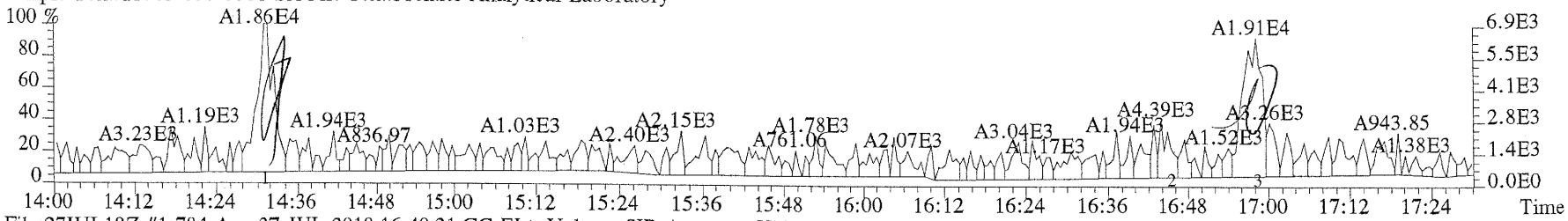
PCB-127	*	*	n	NotFnd	1.02	*		423	411	2.38			
PCB-126	*	*	n	NotFnd	1.18	*		423	411	2.60			
13C-PCB-126	4.29e+07	1.66	y	42:05	1.39	9750					97.5	4.17e+06	2.60e+06
PCB-151	4.90e+05	1.25	y	37:47	0.89	168		-	-	*			
PCB-135	1.99e+05	1.29	y	37:58	0.90	67.1		-	-	*			
PCB-144	8.78e+04	1.29	y	38:06	0.85	31.6		-	-	*			
PCB-147	3.01e+04	1.12	y	38:13	0.90	10.2	J	-	-	*			
PCB-139	1.57e+06	1.26	y	38:28	0.95	501		-	-	*		Co-elute PCB 149	
PCB-149	1.57e+06	1.26	y	38:28	0.95	501		-	-	*		Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.92	*		501	466	4.20			
PCB-143	8.45e+04	1.28	y	39:04	0.87	29.5		-	-	*		Co-elute PCB 134	
PCB-134	8.45e+04	1.28	y	39:04	0.87	29.5		-	-	*		Co-elute PCB 143	
PCB-131	3.16e+04	1.07	y	39:20	0.89	10.8	J	-	-	*		Co-elute PCB 133	
PCB-133	3.16e+04	1.07	y	39:20	0.89	10.8	J	-	-	*		Co-elute PCB 131	
PCB-142	1.31e+07	1.26	y	39:29	0.77	5190		-	-	*			
PCB-165	2.94e+05	1.31	y	39:43	1.04	86.0		-	-	*		Co-elute PCB 146	
PCB-146	2.94e+05	1.31	y	39:43	1.04	86.0		-	-	*		Co-elute PCB 165	
PCB-161	4.52e+05	1.08	y	39:57	0.97	142		-	-	*		Co-elute PCB 132	
PCB-132	4.52e+05	1.08	y	39:57	0.97	142		-	-	*		Co-elute PCB 161	
PCB-153	1.68e+06	1.35	y	40:07	1.01	508		-	-	*			
PCB-168	*	*	n	NotFnd	1.12	*		501	466	3.45			
PCB-141	2.18e+05	1.22	y	40:48	0.88	75.3		-	-	*			
PCB-137	3.34e+04	1.10	y	41:07	0.83	12.3	J	-	-	*			
PCB-130	*	*	n	NotFnd	0.78	*		501	466	4.97			
PCB-138	1.32e+06	1.20	y	41:35	1.14	353		-	-	*		Co-elute PCB 163/164	
PCB-163	1.32e+06	1.20	y	41:35	1.14	353		-	-	*		Co-elute PCB 138/164	
PCB-164	1.32e+06	1.20	y	41:35	1.14	353		-	-	*		Co-elute PCB 138/163	
PCB-158	1.52e+05	1.24	y	41:49	1.14	40.5		-	-	*		Co-elute PCB 160	
PCB-160	1.52e+05	1.24	y	41:49	1.14	40.5		-	-	*		Co-elute PCB 158	
PCB-129	6.07e+04	1.15	y	42:05	0.73	25.2		-	-	*			
PCB-166	*	*	n	NotFnd	1.07	*		501	466	3.62			
PCB-159	*	*	n	NotFnd	1.17	*		501	466	3.32			
PCB-128	1.25e+05	1.16	y	43:04	0.97	39.3		-	-	*		Co-elute PCB 162	
PCB-162	1.25e+05	1.16	y	43:04	0.97	39.3		-	-	*		Co-elute PCB 128	
PCB-167	4.07e+04	1.16	y	43:27	1.05	11.6	J	-	-	*			
13C-PCB-167	3.34e+07	1.28	y	43:27	1.15	9150					91.5	3.45e+06	2.69e+06
PCB-156	8.96e+04	1.24	y	44:41	1.09	26.2		-	-	*			
13C-PCB-156	3.14e+07	1.25	y	44:40	1.12	8820					88.2	3.34e+06	2.64e+06
PCB-157	2.70e+04	1.17	y	44:56	1.13	6.83	J	-	-	*			
13C-PCB-157	3.50e+07	1.30	y	44:55	1.15	9570					95.7	3.47e+06	2.80e+06
PCB-169	*	*	n	NotFnd	1.06	*		501	466	3.47			
13C-PCB-169	3.15e+07	1.27	y	46:48	1.08	9140					91.4	3.67e+06	2.93e+06

FAL ID: 11703-007-0001-SA Filename: 27JUL18Z Sam:9 Acquired: 27-JUL-18 16:40:21 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SC-ENR-CB-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

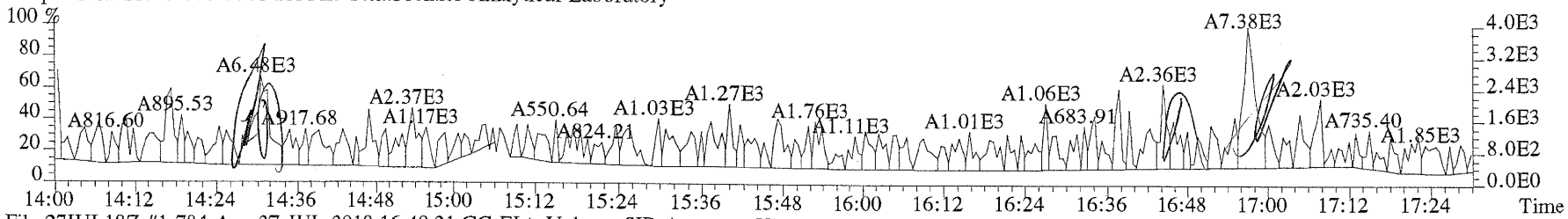
PCB-188	*	*	n	NotFnd	1.17	*		788	260	3.90			
13C-PCB-188	2.60e+07	1.09	y	39:42	0.93	8820					88.2	2.98e+06	2.76e+06
PCB-184	1.12e+07	1.06	y	40:08	1.22	3690		-	-	*			
PCB-179	1.55e+05	1.11	y	40:53	1.12	55.8		-	-	*			
PCB-176	5.12e+04	1.18	y	41:19	1.09	18.8	J	-	-	*			
PCB-186	*	*	n	NotFnd	1.14	*		788	260	3.86			
PCB-178	4.77e+04	1.12	y	42:22	0.80	24.0		-	-	*			
PCB-175	*	*	n	NotFnd	0.85	*		788	260	5.19			
PCB-187	2.73e+05	1.10	y	42:51	0.95	115		-	-	*		Co-elute PCB 182	
PCB-182	2.73e+05	1.10	y	42:51	0.95	115		-	-	*		Co-elute PCB 187	
PCB-183	1.45e+05	1.11	y	43:11	0.91	64.5		-	-	*			
PCB-185	*	*	n	NotFnd	0.88	*		788	260	4.99			
PCB-174	1.77e+05	1.13	y	44:07	0.81	88.0		-	-	*			
PCB-181	*	*	n	NotFnd	0.92	*		788	260	4.76			
PCB-177	8.64e+04	1.18	y	44:23	0.79	44.0		-	-	*			
PCB-171	4.68e+04	1.16	y	44:40	0.83	22.7		-	-	*			
PCB-173	*	*	n	NotFnd	0.78	*		788	260	5.61			
PCB-172	2.32e+05	1.07	y	45:26	0.79	118		-	-	*			
PCB-192	7.50e+06	1.06	y	45:39	1.08	2810		-	-	*			
PCB-180	3.30e+05	1.12	y	45:49	1.04	127		-	-	*			
PCB-193	6.46e+04	0.97	y	45:59	1.12	23.2		-	-	*			
PCB-191	*	*	n	NotFnd	1.05	*		788	260	4.19			
PCB-170	1.01e+05	1.18	y	47:06	0.75	54.1		-	-	*			
PCB-190	3.46e+04	0.90	y	47:15	1.02	13.7	J	-	-	*			
PCB-189	*	*	n	NotFnd	1.13	*		788	260	3.70			
13C-PCB-189	2.37e+07	1.08	y	48:27	0.81	9160					91.6	3.24e+06	3.02e+06
PCB-202	*	*	n	NotFnd	1.00	*		168	248	2.64			
PCB-201	*	*	n	NotFnd	0.95	*		168	248	2.78			
PCB-204	1.34e+07	0.88	y	45:26	0.97	7970		-	-	*			
PCB-197	8.42e+04	0.83	y	45:41	1.05	46.4		-	-	*			
PCB-200	*	*	n	NotFnd	0.97	*		168	248	2.72			
PCB-198	*	*	n	NotFnd	0.70	*		168	248	3.78			
PCB-199	3.36e+04	0.82	y	47:42	0.78	25.0		-	-	*			
PCB-203	3.54e+04	0.96	y	47:57	0.80	25.4		-	-	*		Co-elute PCB 196	
PCB-196	3.54e+04	0.96	y	47:57	0.80	25.4		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.73e+07	0.92	y	44:48	0.60	9070					90.7	1.90e+06	2.05e+06
13C-PCB-178	1.90e+07	1.11	y	42:20	0.67	8980					89.8	2.10e+06	2.01e+06
13C-PCB-138	3.17e+07	1.28	y	41:34	-	73.5							
PCB-195	2.51e+04	0.77	y	49:03	0.78	7.95	J	-	-	*			
PCB-194	5.89e+04	0.77	y	49:52	0.83	17.5	J	-	-	*			
PCB-205	*	*	n	NotFnd	1.12	*		444	988	2.55			
13C-PCB-205	4.05e+07	0.92	y	50:06	1.29	8810					88.1	5.98e+06	6.59e+06
PCB-208	*	*	n	NotFnd	1.01	*		808	772	3.63			
13C-PCB-208	3.40e+07	0.79	y	49:09	1.11	8620					86.2	4.83e+06	5.97e+06
PCB-207	8.66e+04	1.37	y	49:27	0.98	29.7		-	-	*			
PCB-206	*	*	n	NotFnd	1.02	*		808	772	5.16			
13C-PCB-206	2.58e+07	0.80	y	51:18	0.89	8160					81.6	3.35e+06	4.19e+06
PCB-209	1.08e+05	1.16	y	52:29	1.11	34.9		-	-	*			
13C-PCB-209	2.79e+07	1.20	y	52:28	0.97	8090					80.9	5.10e+06	4.24e+06
13C-PCB-194	3.55e+07	0.92	y	49:52	-	80.5							

Analyst: _____ Date: 8/20/18

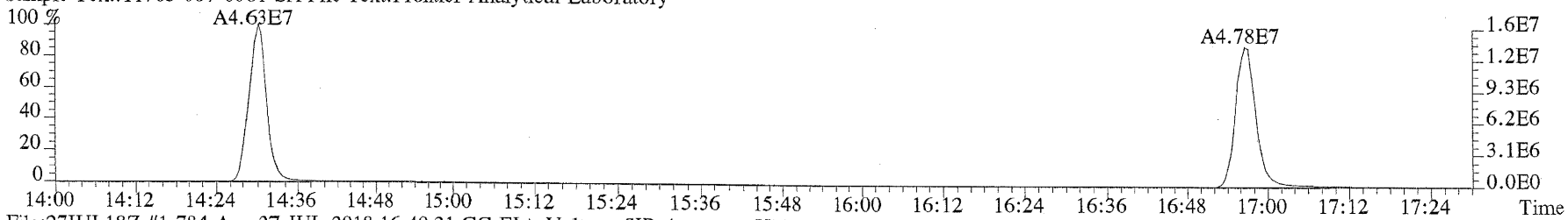
File:27JUL18Z #1-784 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



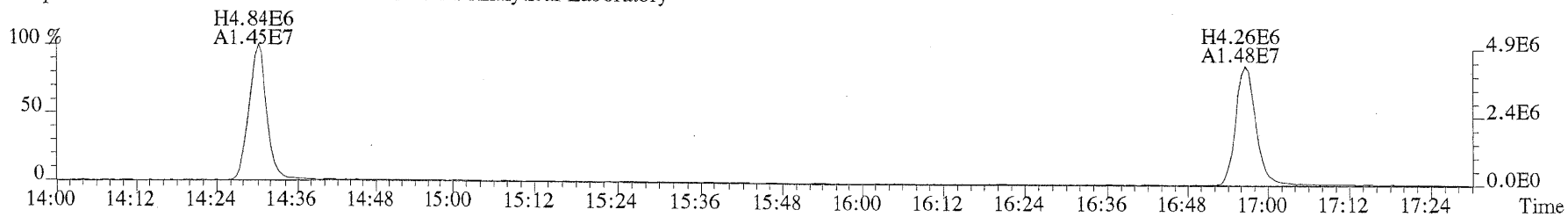
File:27JUL18Z #1-784 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



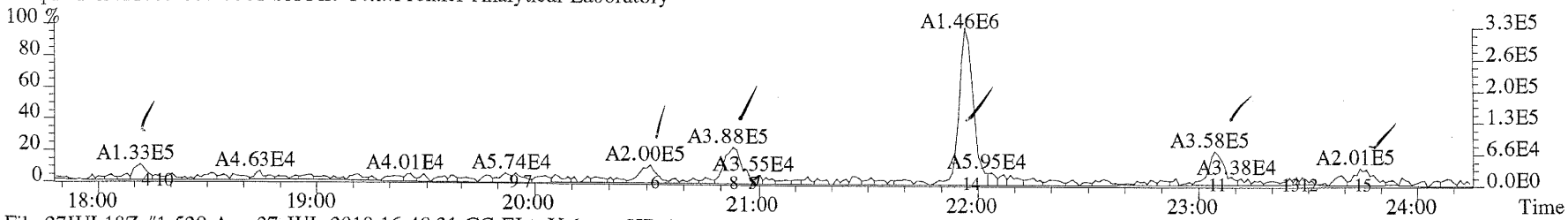
File:27JUL18Z #1-784 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



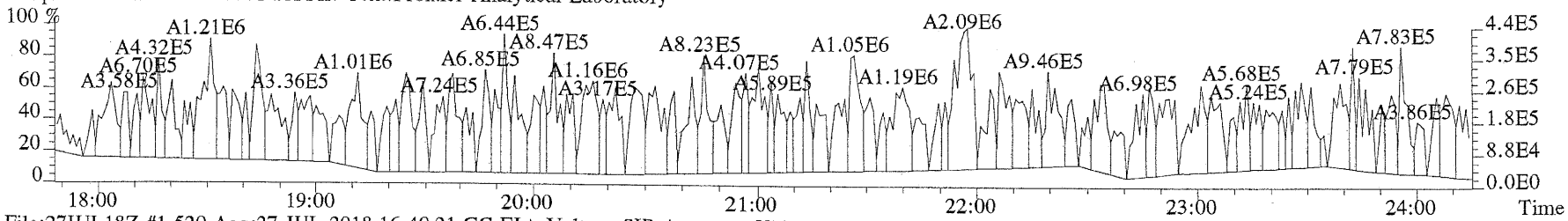
File:27JUL18Z #1-784 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



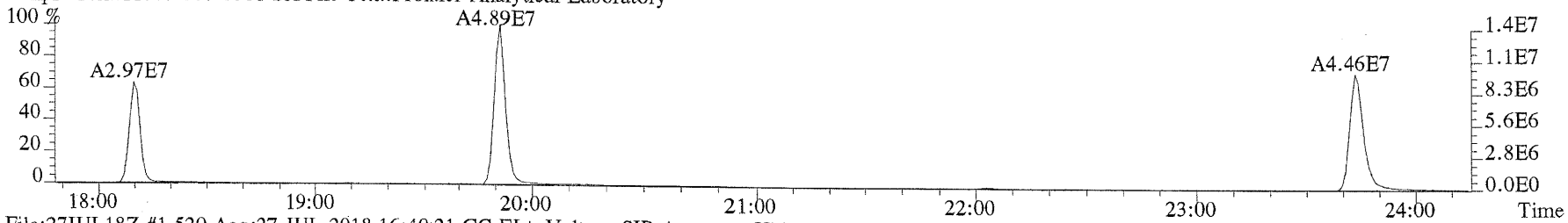
File:27JUL18Z #1-520 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



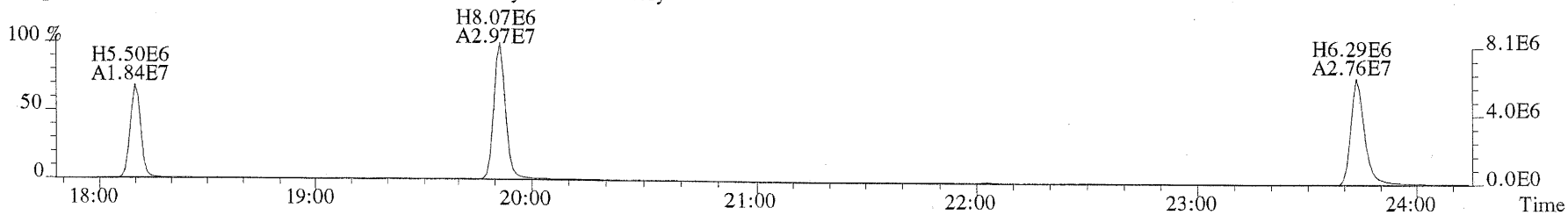
File:27JUL18Z #1-520 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



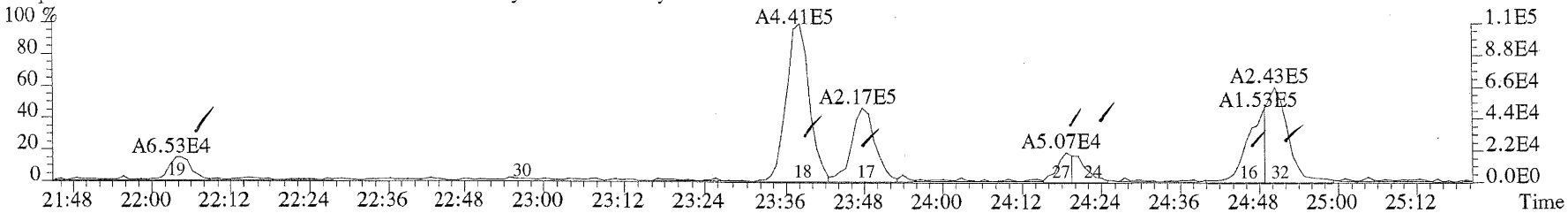
File:27JUL18Z #1-520 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



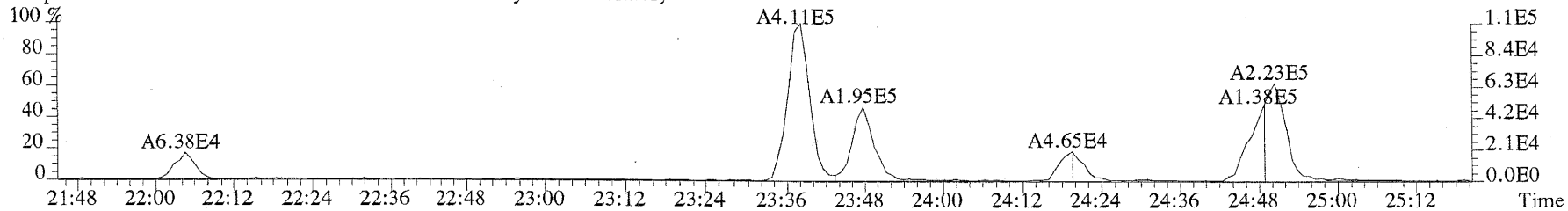
File:27JUL18Z #1-520 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



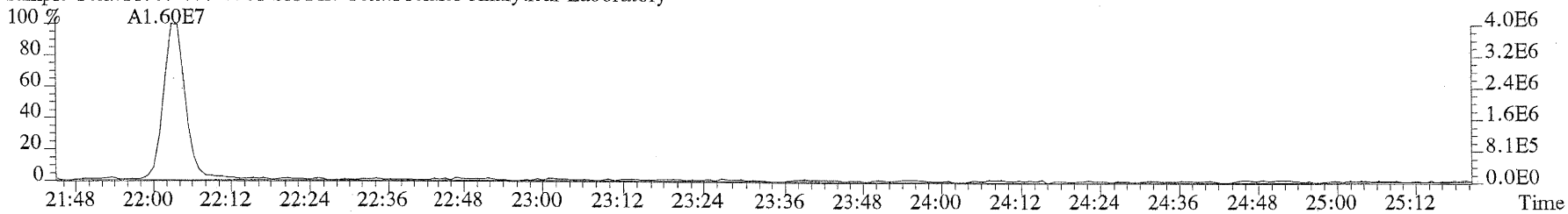
File:27JUL18Z #1-520 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-520 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory

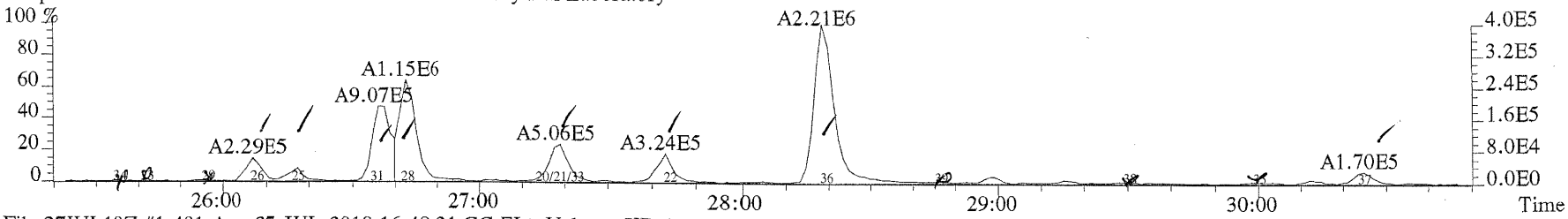


File:27JUL18Z #1-520 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory

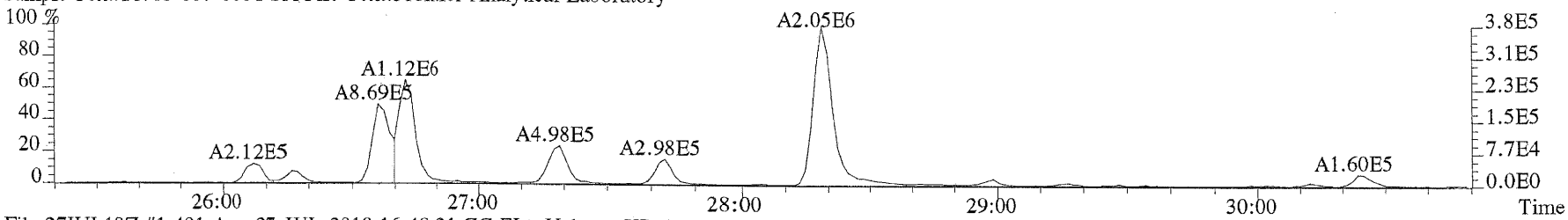


File:27JUL18Z #1-520 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory

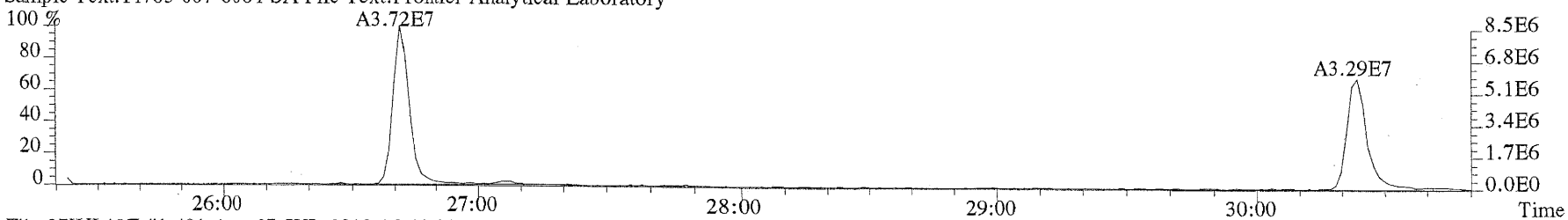
File:27JUL18Z #1-401 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



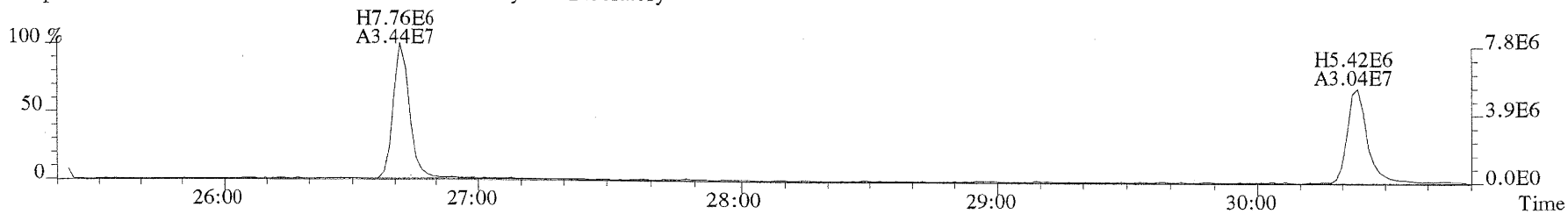
File:27JUL18Z #1-401 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



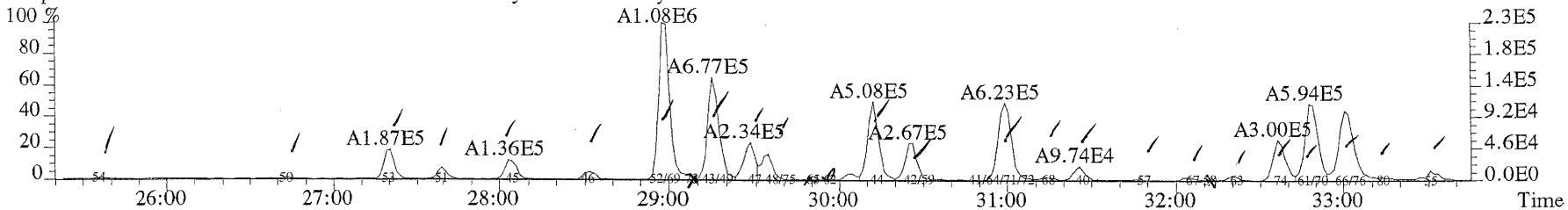
File:27JUL18Z #1-401 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



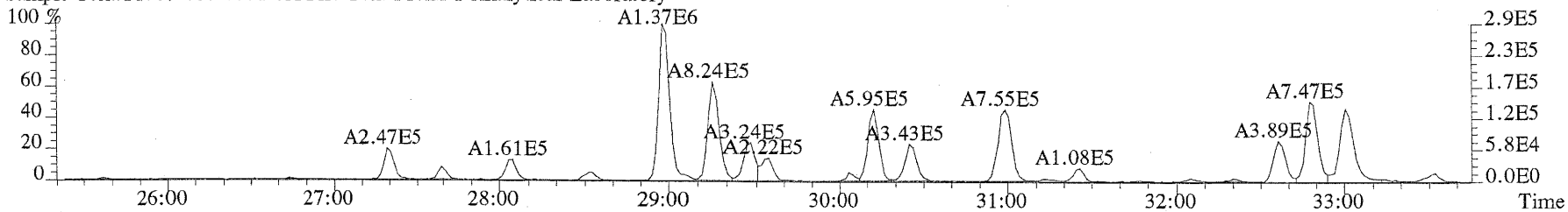
File:27JUL18Z #1-401 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



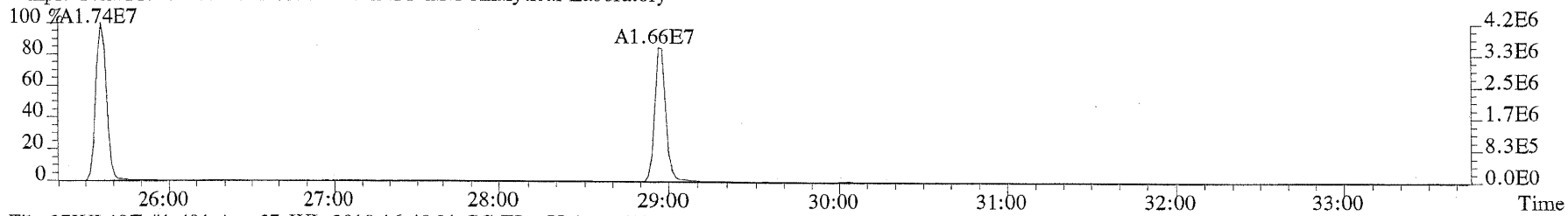
File:27JUL18Z #1-401 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



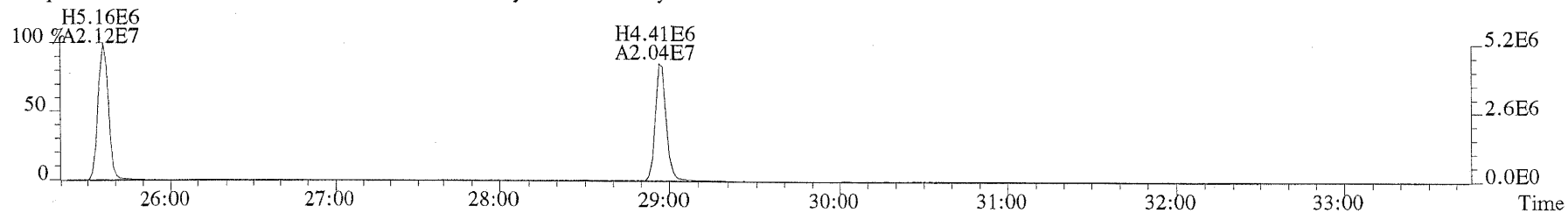
File:27JUL18Z #1-401 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



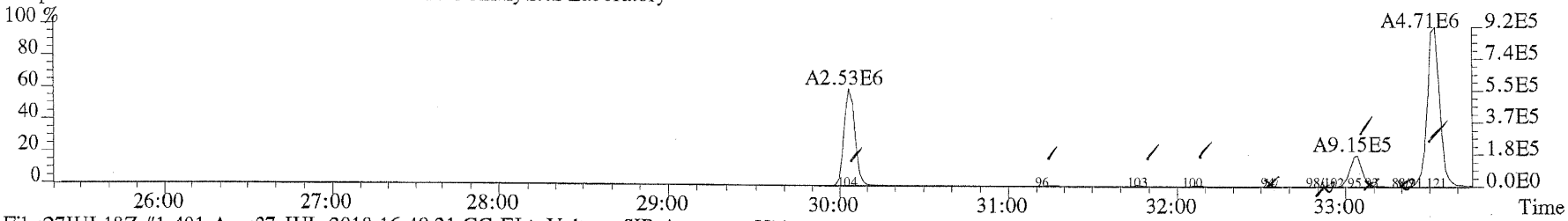
File:27JUL18Z #1-401 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



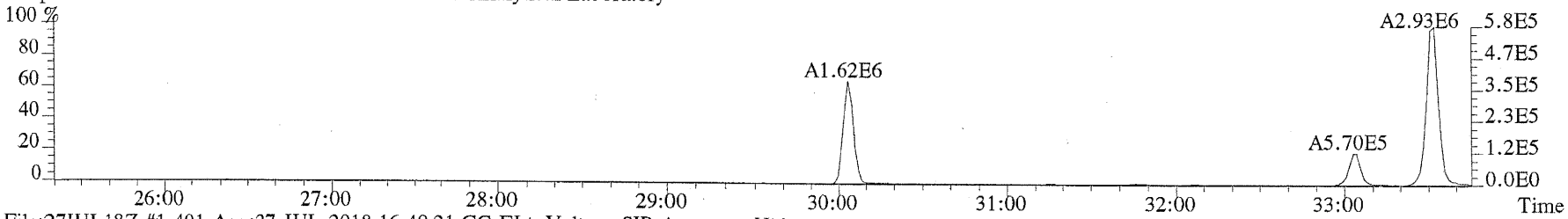
File:27JUL18Z #1-401 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



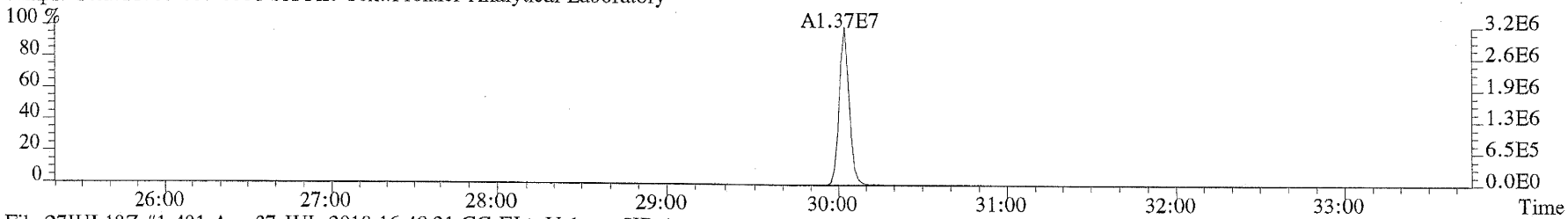
File:27JUL18Z #1-401 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



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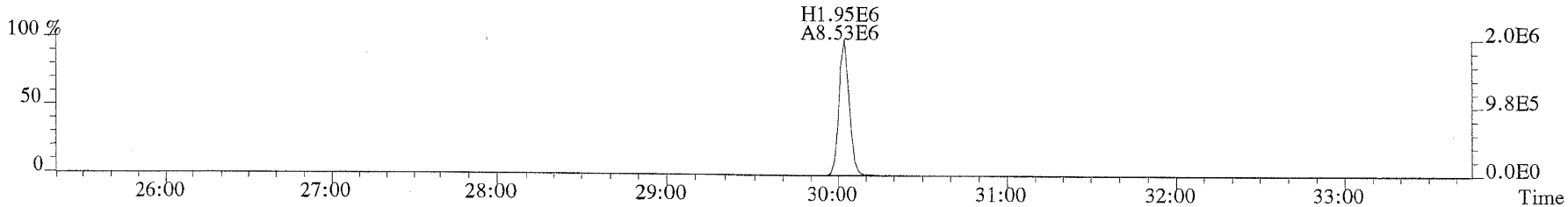
339.9178 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



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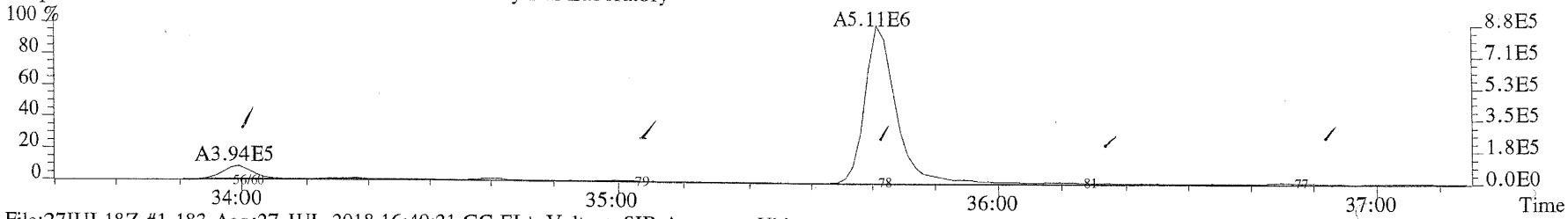
289.9224 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



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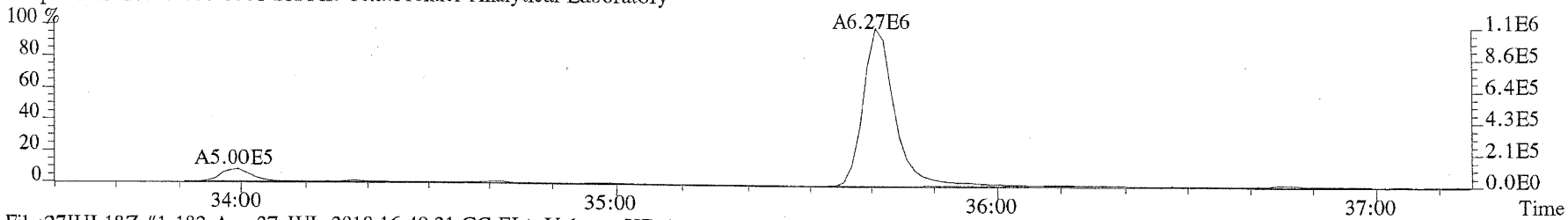
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



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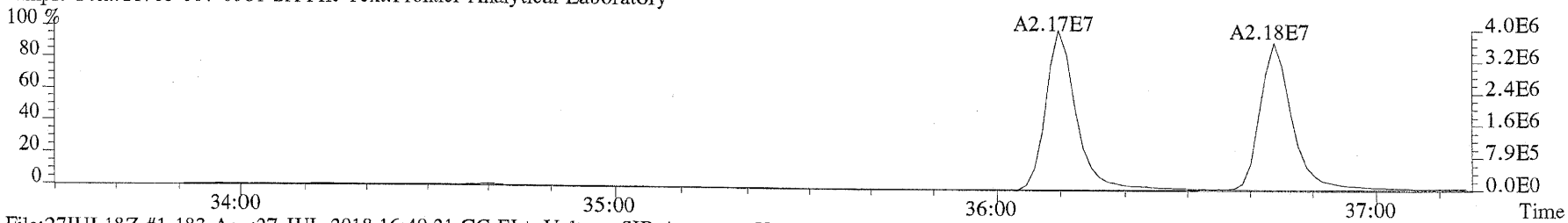
301.9626 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



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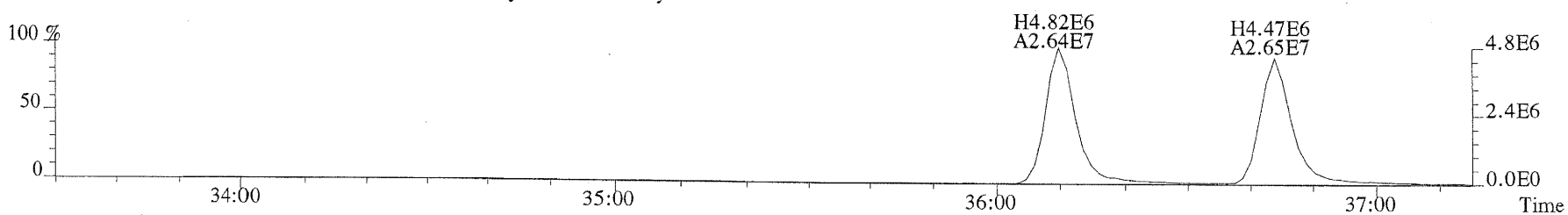
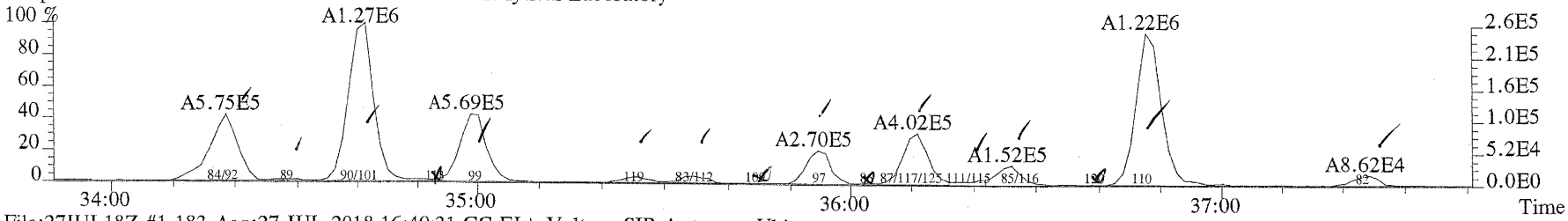
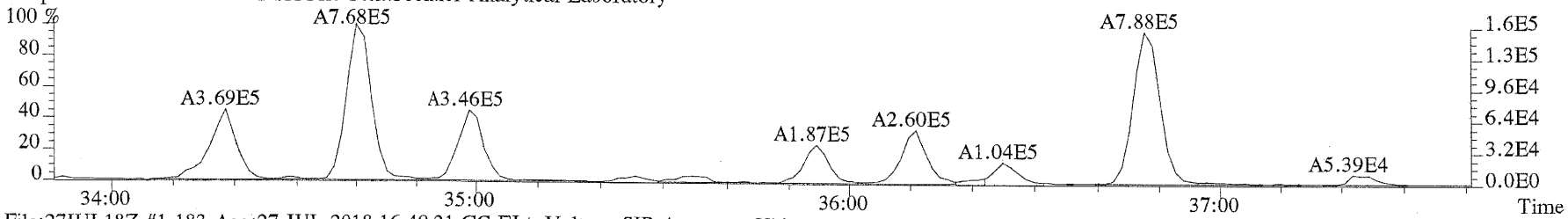
303.9597 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



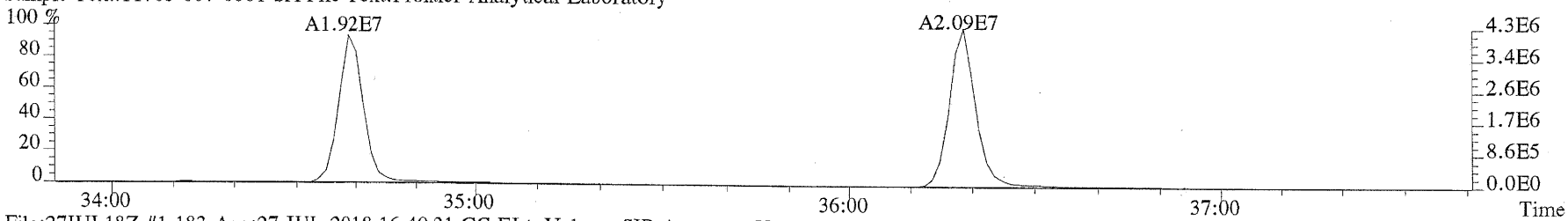
File:27JUL18Z #1-183 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



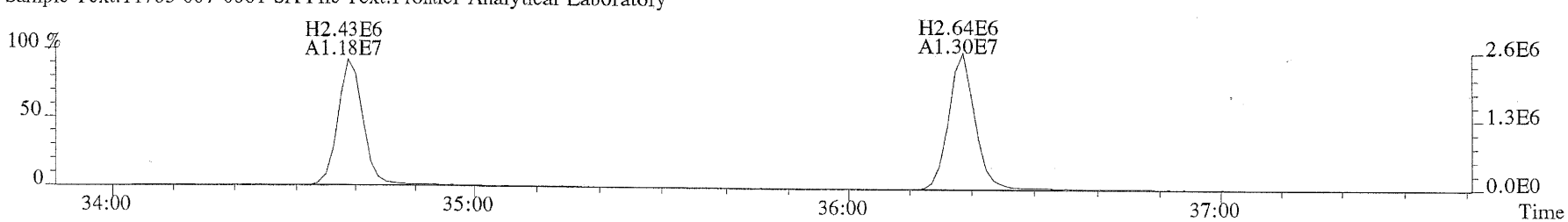
File:27JUL18Z #1-183 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



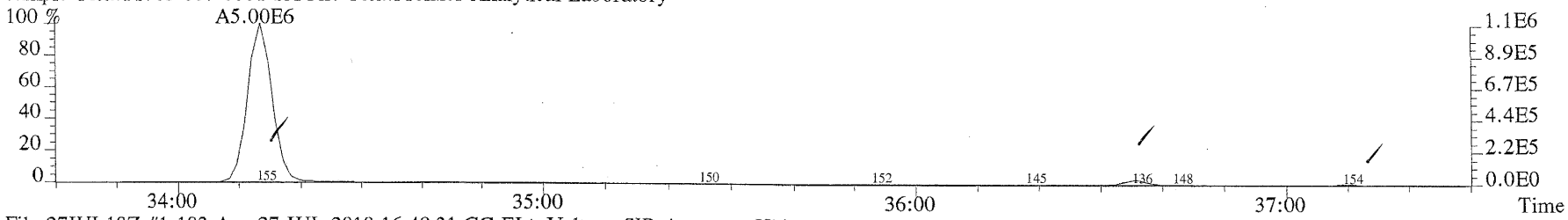
File:27JUL18Z #1-183 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



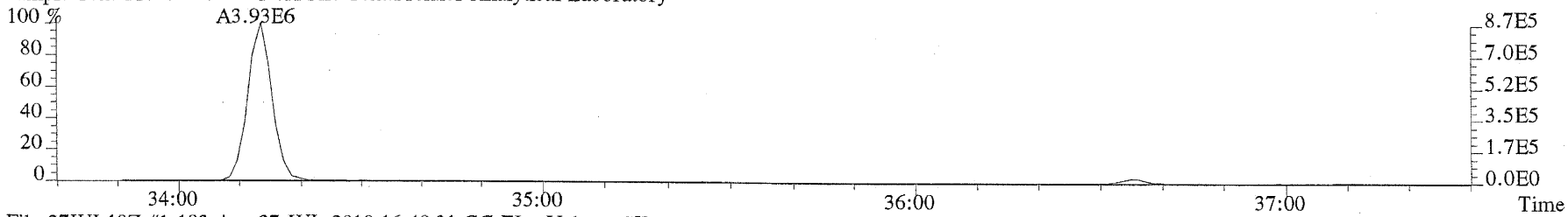
File:27JUL18Z #1-183 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



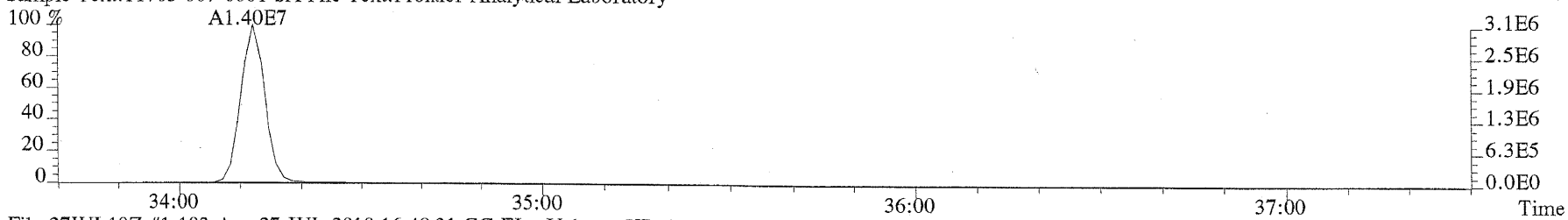
File:27JUL18Z #1-183 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



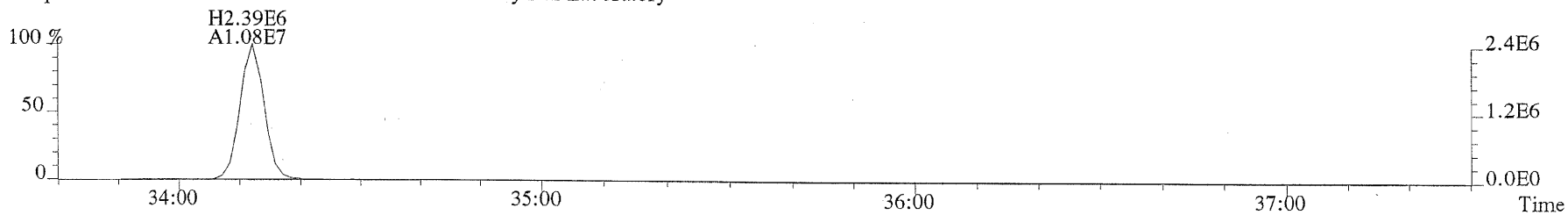
File:27JUL18Z #1-183 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



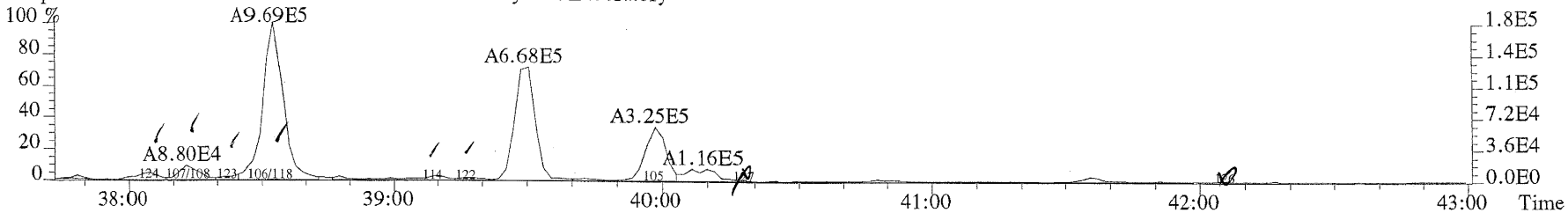
File:27JUL18Z #1-183 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



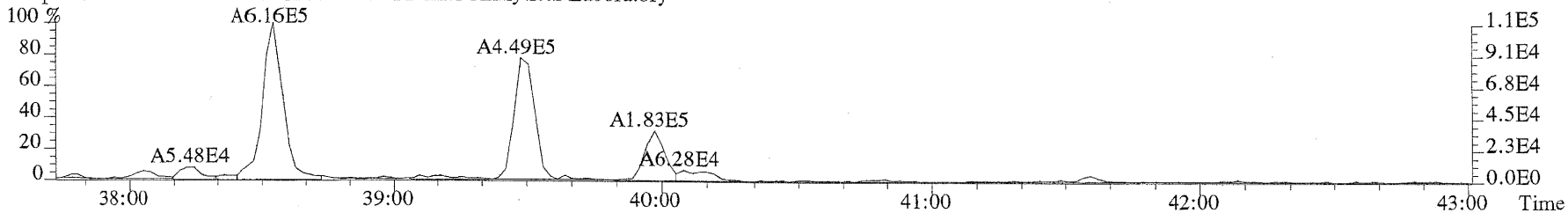
File:27JUL18Z #1-183 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



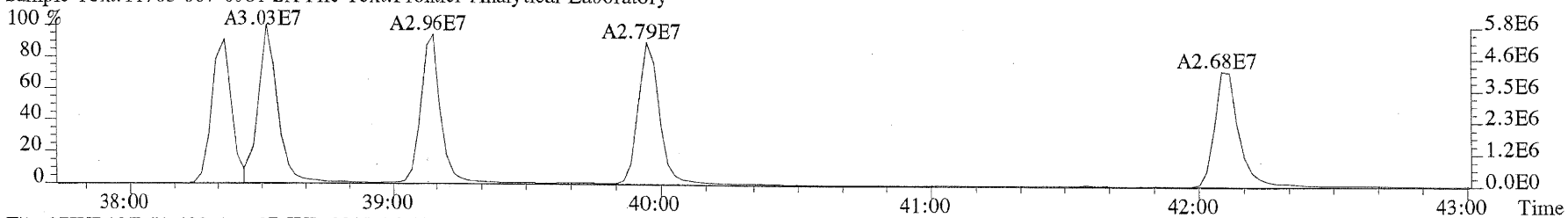
File:27JUL18Z #1-403 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-403 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-403 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



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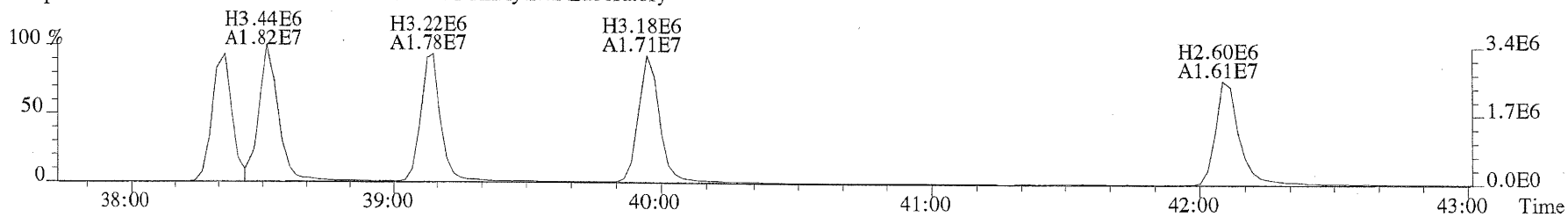
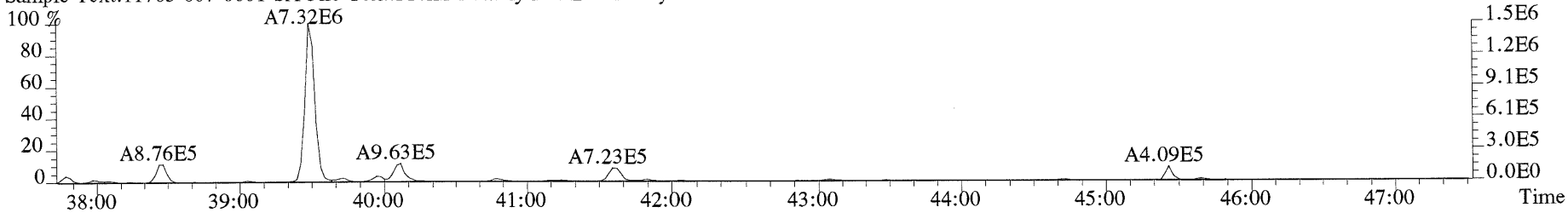
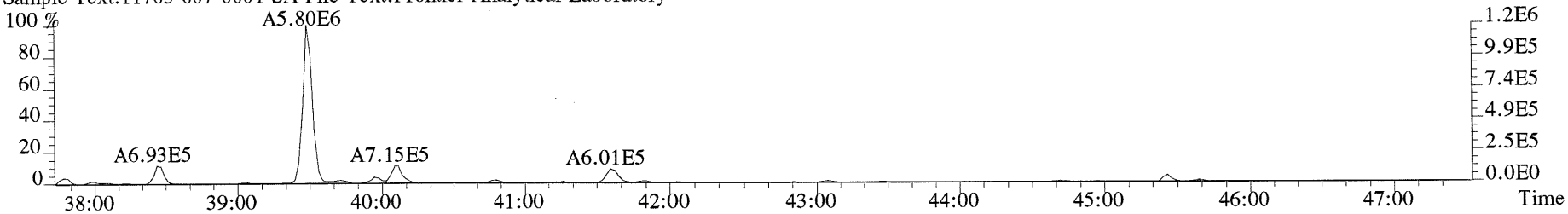
339.9178 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



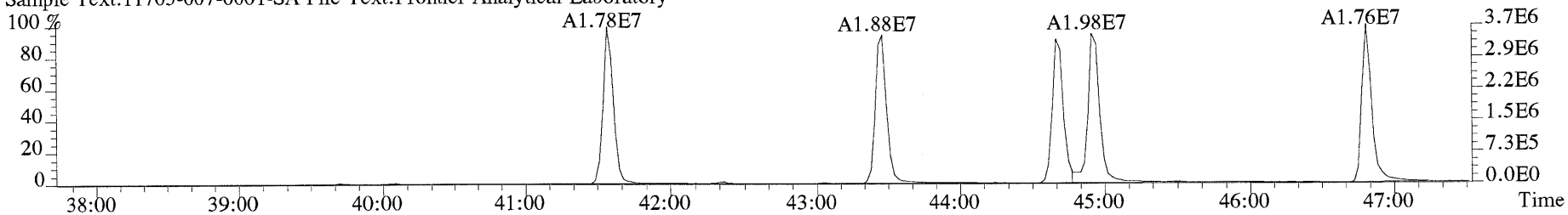
File:27JUL18Z #1-403 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



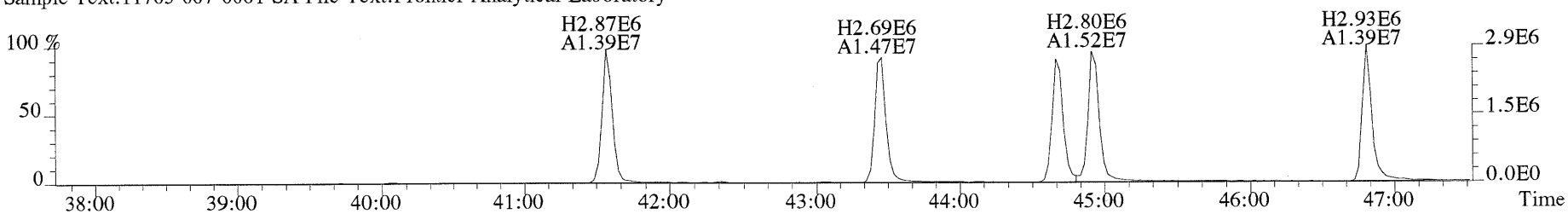
File:27JUL18Z #1-403 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-403 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-403 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



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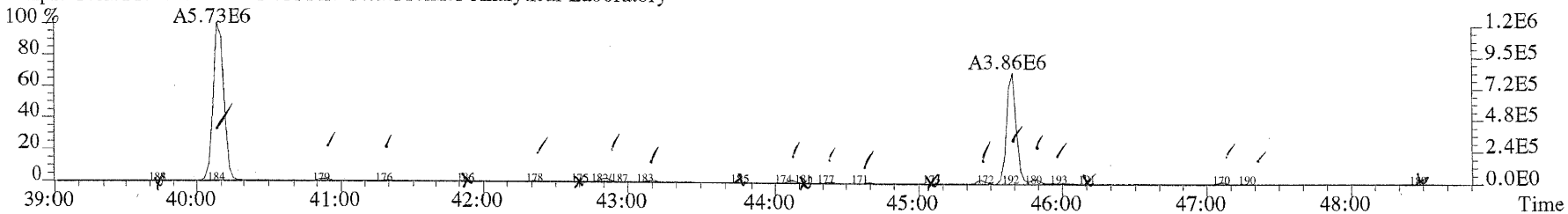
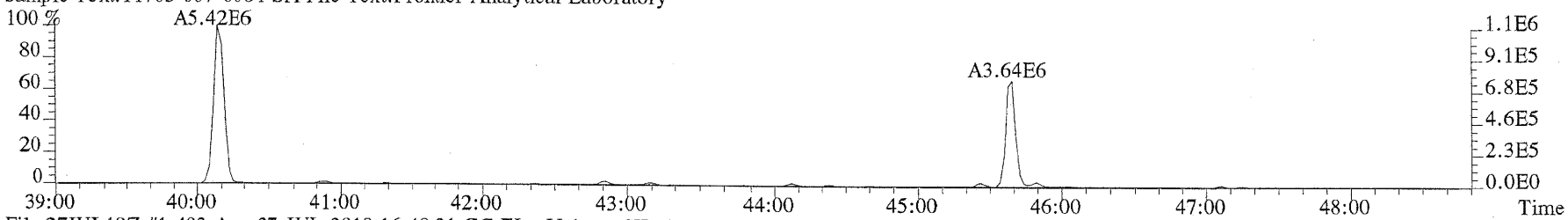
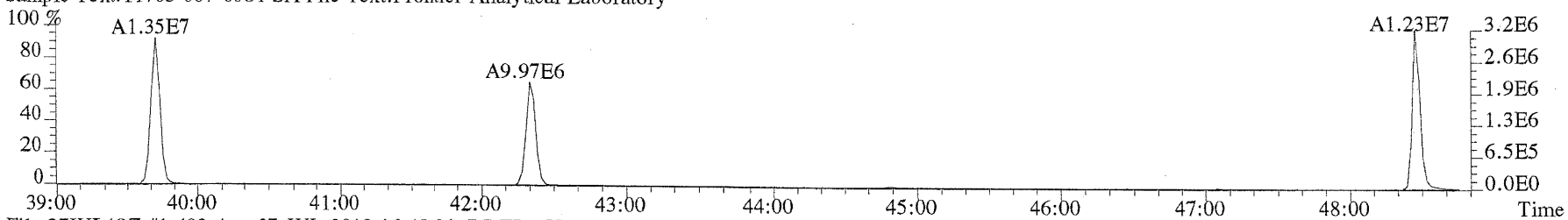
393.8025 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



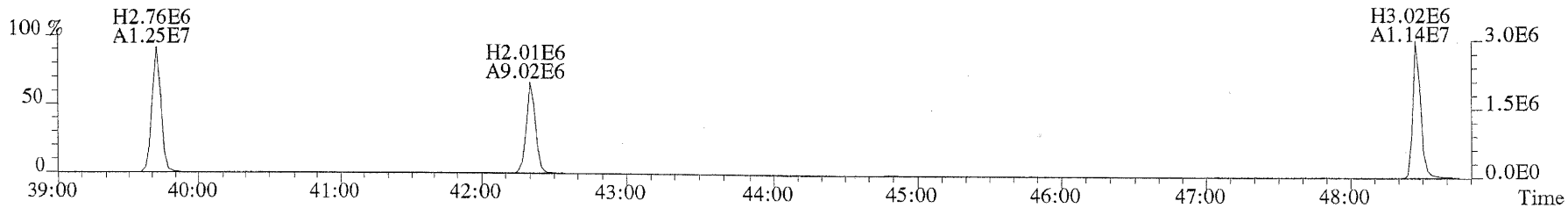
File:27JUL18Z #1-403 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



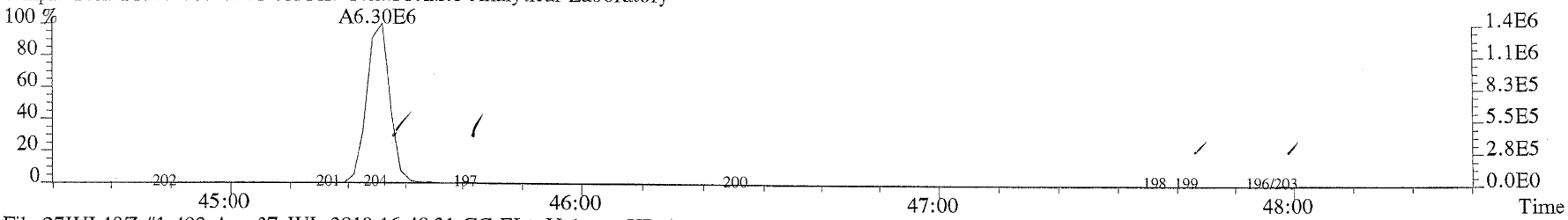
File:27JUL18Z #1-403 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



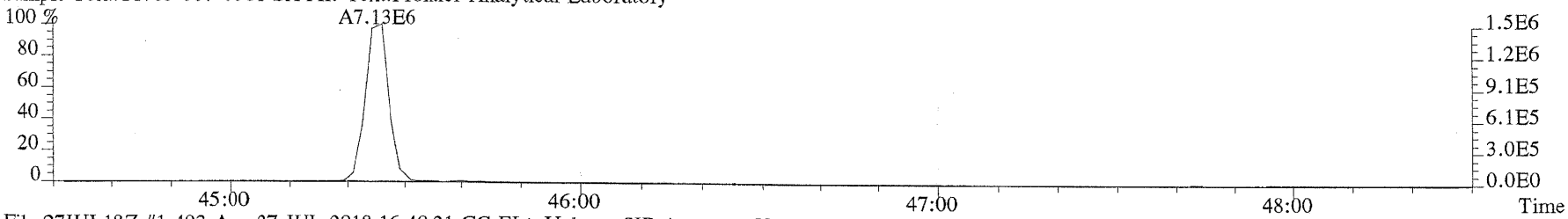
File:27JUL18Z #1-403 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



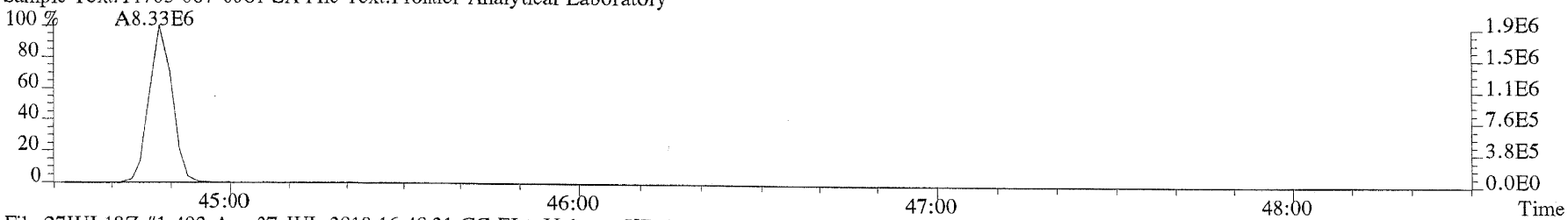
File:27JUL18Z #1-403 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



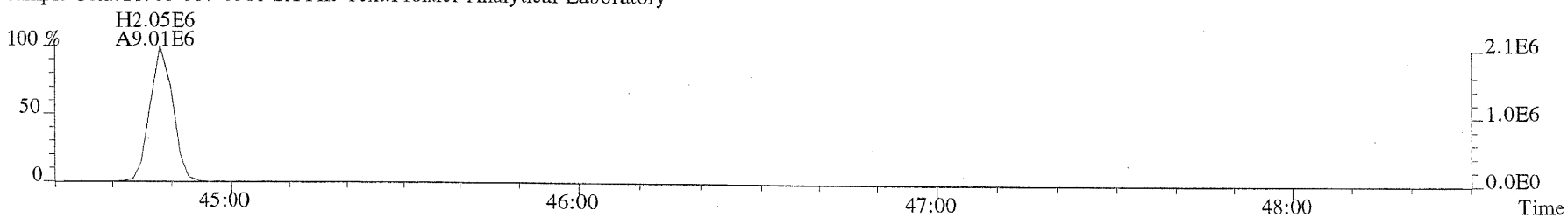
File:27JUL18Z #1-403 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



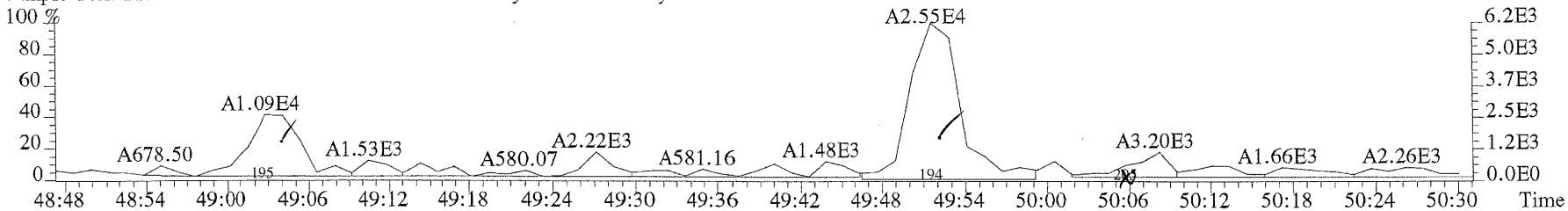
File:27JUL18Z #1-403 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



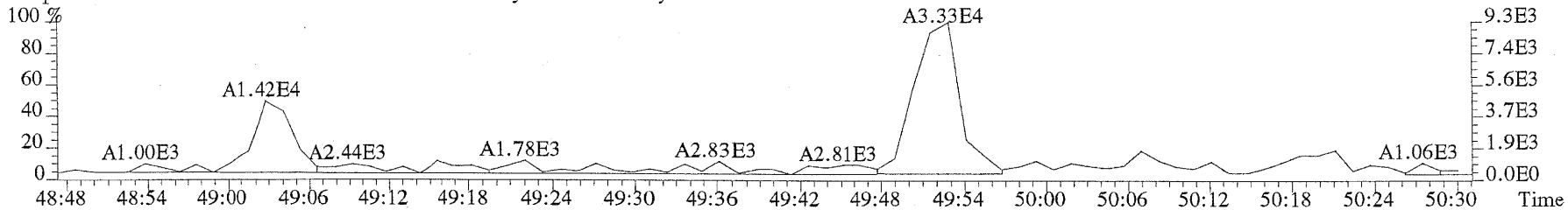
File:27JUL18Z #1-403 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



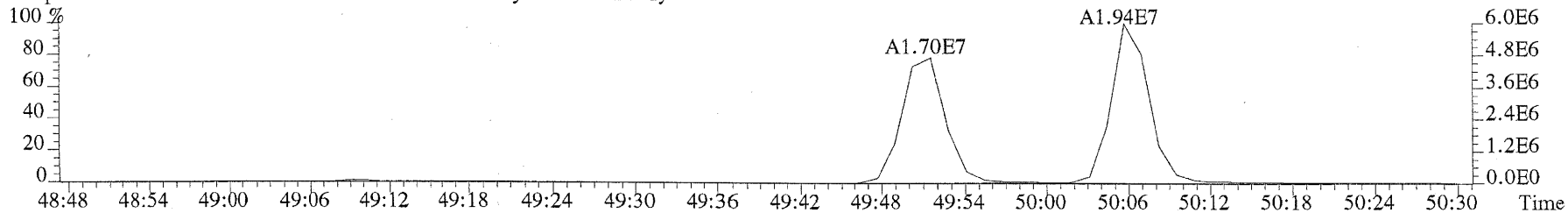
File:27JUL18Z #1-315 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



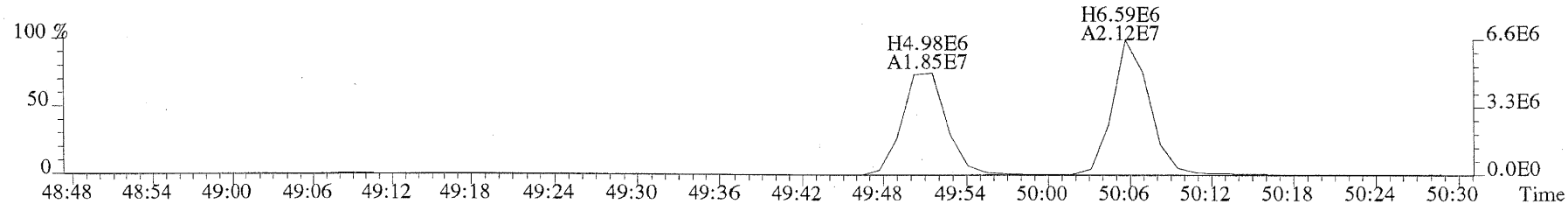
File:27JUL18Z #1-315 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



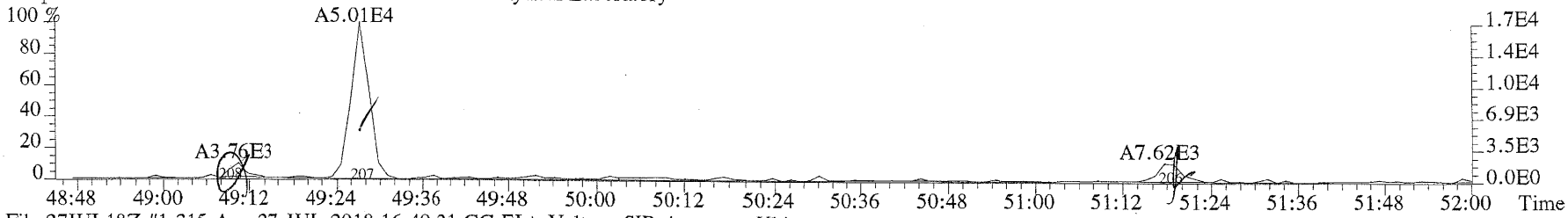
File:27JUL18Z #1-315 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



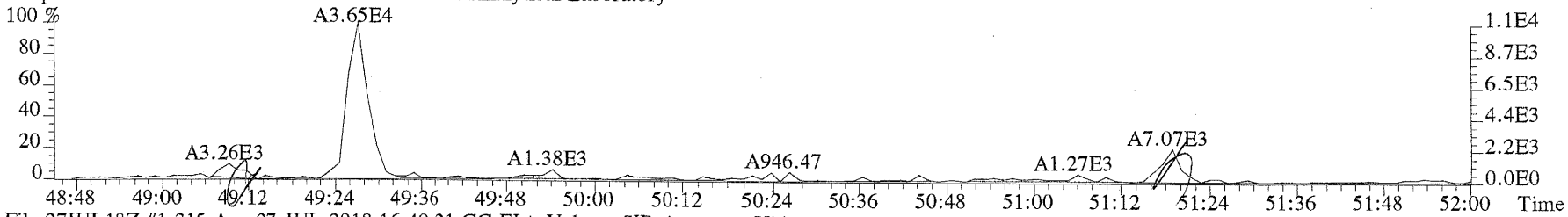
File:27JUL18Z #1-315 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



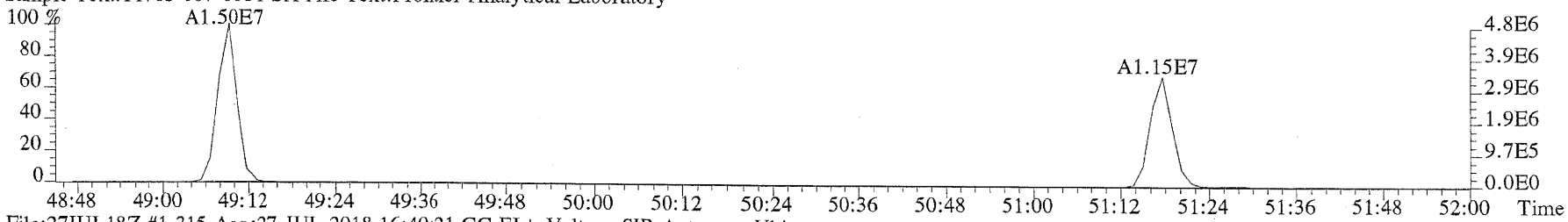
File:27JUL18Z #1-315 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



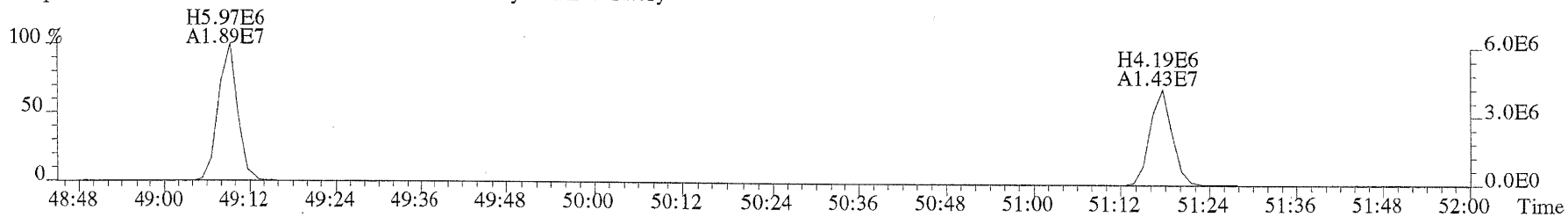
File:27JUL18Z #1-315 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



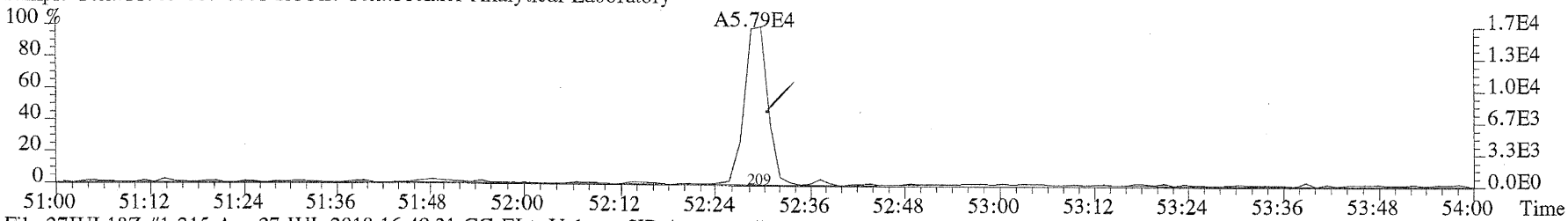
File:27JUL18Z #1-315 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



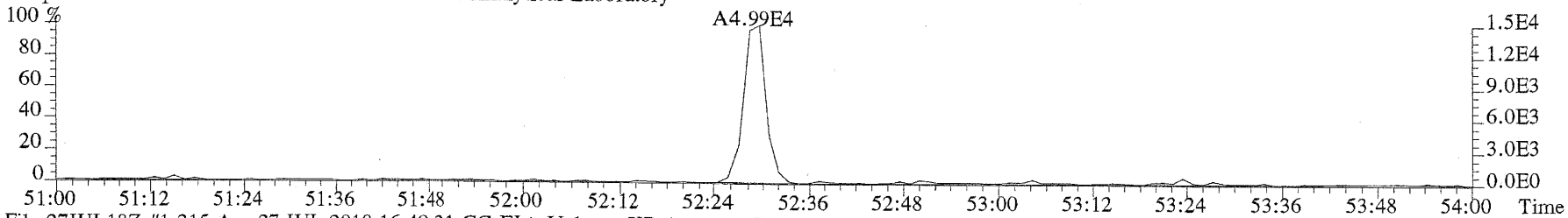
File:27JUL18Z #1-315 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



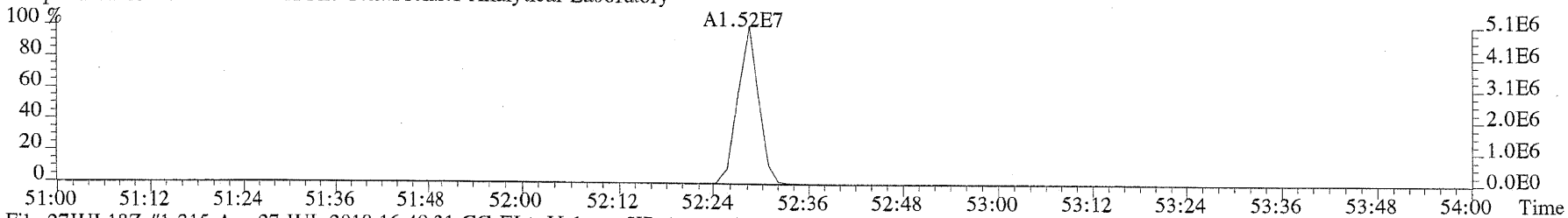
File:27JUL18Z #1-315 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



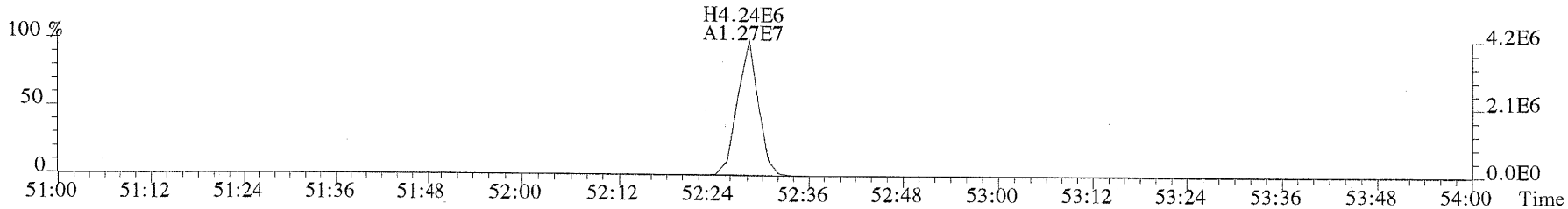
File:27JUL18Z #1-315 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-315 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-315 Acq:27-JUL-2018 16:40:21 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-007-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11703-008-0001-SA Filename: 27JUL18Z Sam:10 Acquired: 27-JUL-18 17:39:07 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SC-ENR-CC-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	* n	NotFnd	1.17	*		1830	1680	3.28			
13C-PCB-1	6.80e+07	3.21 y	14:30	0.92	8970					89.7	1.73e+07	5.50e+06
PCB-2	*	* n	NotFnd	1.05	*		1830	1680	3.91			
PCB-3	*	* n	NotFnd	1.16	*		1830	1680	3.75			
13C-PCB-3	6.80e+07	3.28 y	16:57	0.93	8870					88.7	1.55e+07	4.69e+06
PCB-4	4.16e+05	1.56 y	18:11	1.42	55.7		-	-	*			
PCB-10	*	* n	NotFnd	1.21	*		1650	2870	5.44			
13C-PCB-4	5.25e+07	1.61 y	18:10	0.68	9430					94.3	9.42e+06	5.74e+06
PCB-9	*	* n	NotFnd	1.40	*		1650	2870	4.71			
PCB-7	*	* n	NotFnd	1.40	*		1650	2870	4.72			
PCB-6	4.75e+05	1.65 y	20:31	1.33	53.8		-	-	*			
PCB-8	9.65e+05	1.59 y	20:53	1.35	108		-	-	*			
PCB-5	*	* n	NotFnd	1.35	*		1650	2870	4.89			
PCB-14	2.20e+06	1.53 y	21:57	1.31	254		-	-	*			
PCB-11	7.05e+05	1.44 y	23:04	1.24	85.7		-	-	*			
PCB-13	*	* n	NotFnd	1.32	*		1650	2870	5.01			
PCB-12	*	* n	NotFnd	1.30	*		1650	2870	5.09			
PCB-15	3.74e+05	1.66 y	23:44	1.26	37.1		-	-	*			
13C-PCB-15	8.00e+07	1.68 y	23:43	1.00	9710					97.1	1.17e+07	7.02e+06
PCB-19	1.69e+05	1.18 y	22:04	1.19	43.0		-	-	*			
PCB-30	*	* n	NotFnd	1.63	*		690	560	2.20			
PCB-18	1.24e+06	1.06 y	23:38	1.14	330		-	-	*			
PCB-17	6.20e+05	1.02 y	23:48	1.23	152		-	-	*			
PCB-27	1.54e+05	1.08 y	24:19	1.49	31.3		-	-	*			
PCB-24	9.59e+04	1.07 y	24:20	1.69	17.2	J	-	-	*			
PCB-16	4.32e+05	1.08 y	24:49	1.36	96.3		-	-	*			
PCB-32	6.08e+05	1.12 y	24:50	1.41	131		-	-	*			
13C-PCB-19	3.30e+07	1.07 y	22:03	0.44	9030					90.3	4.51e+06	4.21e+06
13C-PCB-9	8.23e+07	1.65 y	19:51	-	72.0							
PCB-34	*	* n	NotFnd	1.03	*		1080	960	4.05			
PCB-23	*	* n	NotFnd	1.10	*		1080	960	3.78			
PCB-29	*	* n	NotFnd	1.14	*		1080	960	3.63			
PCB-26	6.35e+05	1.00 y	26:07	1.04	92.8		-	-	*			
PCB-25	3.82e+05	1.05 y	26:17	1.36	42.9		-	-	*			
PCB-31	2.51e+06	1.07 y	26:36	1.12	343		-	-	*			
PCB-28	3.11e+06	1.04 y	26:42	1.44	331		-	-	*			
PCB-20	1.47e+06	1.10 y	27:19	1.24	181		-	-	*		Co-elute PCB 21/33	
PCB-21	1.47e+06	1.10 y	27:19	1.24	181		-	-	*		Co-elute PCB 20/33	
PCB-33	1.47e+06	1.10 y	27:19	1.24	181		-	-	*		Co-elute PCB 20/21	
PCB-22	8.68e+05	1.02 y	27:43	1.24	107		-	-	*			
PCB-36	3.57e+06	1.05 y	28:18	1.13	483		-	-	*			
PCB-39	*	* n	NotFnd	1.16	*		1080	960	3.59			
PCB-38	*	* n	NotFnd	1.12	*		1080	960	3.72			
PCB-35	*	* n	NotFnd	1.08	*		1080	960	3.86			
PCB-37	5.03e+05	1.10 y	30:23	1.22	62.9		-	-	*			
13C-PCB-37	6.56e+07	1.09 y	30:23	1.72	10600					106	6.42e+06	5.85e+06

PCB-54	*	*	n	NotFnd	1.21	*		756	808	3.15			
PCB-50	*	*	n	NotFnd	0.91	*		756	808	4.19			
PCB-53	5.82e+05	0.78	y	27:20	0.93	152		-	-	*			
PCB-51	2.18e+05	0.82	y	27:40	0.95	55.6		-	-	*			
PCB-45	4.15e+05	0.75	y	28:04	0.79	127		-	-	*			
PCB-46	1.59e+05	0.79	y	28:32	0.78	49.6		-	-	*			
PCB-52	3.55e+06	0.80	y	28:59	1.13	758		-	-	*	Co-elute PCB 69		
PCB-69	3.55e+06	0.80	y	28:59	1.13	758		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.11	*		756	808	3.42			
PCB-43	2.21e+06	0.81	y	29:15	0.88	609		-	-	*	Co-elute PCB 49		
PCB-49	2.21e+06	0.81	y	29:15	0.88	609		-	-	*	Co-elute PCB 43		
PCB-47	8.77e+05	0.83	y	29:28	1.04	205		-	-	*			
PCB-48	5.28e+05	0.86	y	29:34	1.14	112		-	-	*	Co-elute PCB 75		
PCB-75	5.28e+05	0.86	y	29:34	1.14	112		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.15	*		756	808	3.30			
PCB-62	7.86e+04	0.75	y	30:04	1.10	17.3		756	808	3.46			
PCB-44	1.69e+06	0.80	y	30:12	0.80	508		-	-	*			
PCB-42	8.56e+05	0.82	y	30:26	1.07	194		-	-	*	Co-elute PCB 59		
PCB-59	8.56e+05	0.82	y	30:26	1.07	194		-	-	*	Co-elute PCB 42		
PCB-72	2.11e+06	0.83	y	30:59	1.14	448		-	-	*	Co-elute PCB 41/71/64		
PCB-41	2.11e+06	0.83	y	30:59	1.14	448		-	-	*	Co-elute PCB 72/71/64		
PCB-71	2.11e+06	0.83	y	30:59	1.14	448		-	-	*	Co-elute PCB 72/41/64		
PCB-64	2.11e+06	0.83	y	30:59	1.14	448		-	-	*	Co-elute PCB 72/41/71		
PCB-68	7.36e+04	0.84	y	31:14	1.22	14.6	J	-	-	*			
PCB-40	3.01e+05	0.77	y	31:25	0.70	104		-	-	*			
PCB-57	*	*	n	NotFnd	1.10	*		756	808	3.45			
PCB-67	9.10e+04	0.86	y	32:03	1.18	18.6	J	-	-	*			
PCB-58	*	*	n	NotFnd	1.07	*		756	808	3.54			
PCB-63	8.82e+04	0.79	y	32:21	1.12	19.0	J	-	-	*			
PCB-74	1.01e+06	0.83	y	32:36	1.25	195		-	-	*			
PCB-61	2.16e+06	0.80	y	32:49	1.19	441		-	-	*	Co-elute PCB 70		
PCB-70	2.16e+06	0.80	y	32:49	1.19	441		-	-	*	Co-elute PCB 61		
PCB-76	2.08e+06	0.80	y	33:00	1.18	428		-	-	*	Co-elute PCB 66		
PCB-66	2.08e+06	0.80	y	33:00	1.18	428		-	-	*	Co-elute PCB 76		
PCB-80	7.06e+04	0.86	y	33:13	1.28	13.3	J	-	-	*			
PCB-55	2.09e+05	0.87	y	33:32	1.17	43.2		-	-	*			
13C-PCB-54	4.14e+07	0.83	y	25:35	1.14	10100						101	4.69e+06	5.61e+06
PCB-104	3.35e+06	1.54	y	30:03	1.26	1150		-	-	*			
PCB-96	4.01e+04	1.52	y	31:15	1.11	15.5	J	-	-	*			
PCB-103	6.61e+04	1.37	y	31:46	0.97	29.5		-	-	*			
PCB-100	4.48e+04	1.56	y	32:08	0.97	19.9	J	-	-	*			
PCB-94	*	*	n	NotFnd	0.82	*		392	392	4.43			
PCB-98	*	*	n	NotFnd	0.44	*		392	392	8.21	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.44	*		392	392	8.21	Co-elute PCB 98		
PCB-95	2.19e+06	1.58	y	33:04	0.89	1060		-	-	*			
PCB-93	*	*	n	NotFnd	0.82	*		392	392	4.47			
PCB-88	*	*	n	NotFnd	0.91	*		392	392	4.02	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	0.91	*		392	392	4.02	Co-elute PCB 88		
PCB-121	7.00e+06	1.59	y	33:32	1.08	2800		-	-	*			
13C-PCB-104	2.32e+07	1.61	y	30:02	0.64	10100						101	3.29e+06	2.08e+06
13C-PCB-28	7.29e+07	1.07	y	26:41	1.96	10300						103	8.35e+06	7.87e+06
13C-PCB-52	3.61e+07	0.80	y	28:56	-	64.8								

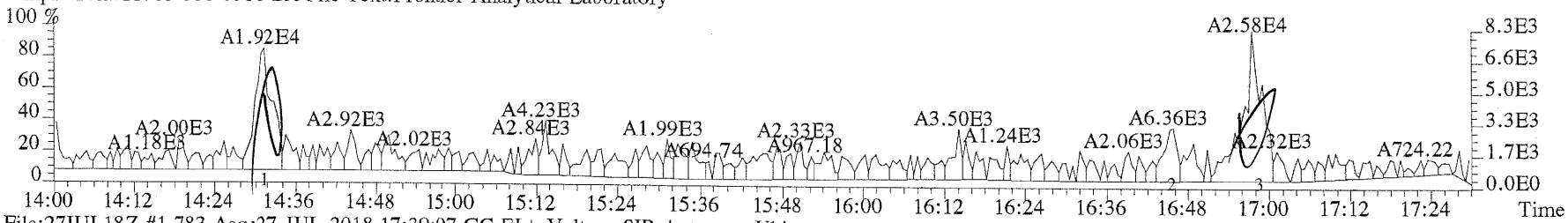
PCB-56	1.45e+06	0.79	y	33:59	1.22	232		-	-	*		Co-elute PCB 60	
PCB-60	1.45e+06	0.79	y	33:59	1.22	232		-	-	*		Co-elute PCB 56	
PCB-79	5.82e+04	0.82	y	34:59	1.22	9.32	J	-	-	*			
PCB-78	1.05e+07	0.84	y	35:40	1.17	1750		-	-	*			
PCB-81	1.90e+05	0.75	y	36:12	1.24	29.9		-	-	*			
13C-PCB-81	5.10e+07	0.81	y	36:10	1.62	10200					102	4.14e+06	5.10e+06
PCB-77	1.73e+05	0.71	y	36:45	1.18	28.5		-	-	*			
13C-PCB-77	5.15e+07	0.82	y	36:44	1.62	10300					103	3.92e+06	4.69e+06
PCB-155	7.84e+06	1.28	y	34:13	1.16	2700		-	-	*			
PCB-150	*	*	n	NotFnd	1.03	*		388	344	3.23			
PCB-152	*	*	n	NotFnd	0.97	*		388	344	3.42			
PCB-145	*	*	n	NotFnd	1.00	*		388	344	3.34			
PCB-136	4.33e+05	1.15	y	36:35	0.89	193		-	-	*			
PCB-148	*	*	n	NotFnd	0.83	*		388	344	4.03			
PCB-154	5.70e+04	1.26	y	37:10	0.88	25.7		-	-	*			
13C-PCB-155	2.52e+07	1.29	y	34:12	0.86	9480					94.8	3.16e+06	2.35e+06
13C-PCB-111	3.56e+07	1.57	y	36:18	1.16	9870					98.7	4.33e+06	2.80e+06
13C-PCB-101	3.10e+07	1.59	y	34:39	-	70.1							
PCB-84	1.31e+06	1.60	y	34:18	0.65	414		-	-	*		Co-elute PCB 92	
PCB-92	1.31e+06	1.60	y	34:18	0.65	414		-	-	*		Co-elute PCB 84	
PCB-89	4.66e+04	1.45	y	34:28	0.62	15.3	J	-	-	*			
PCB-90	3.12e+06	1.61	y	34:40	0.71	896		-	-	*		Co-elute PCB 101	
PCB-101	3.12e+06	1.61	y	34:40	0.71	896		-	-	*		Co-elute PCB 90	
PCB-113	*	*	n	NotFnd	0.75	*		880	740	5.84			
PCB-99	1.38e+06	1.59	y	35:00	0.84	336		-	-	*			
PCB-119	1.03e+05	1.37	y	35:25	0.90	23.3		-	-	*			
PCB-83	1.24e+05	1.64	y	35:34	0.70	36.1		-	-	*		Co-elute PCB 112	
PCB-112	1.24e+05	1.64	y	35:34	0.70	36.1		-	-	*		Co-elute PCB 83	
PCB-109	*	*	n	NotFnd	0.85	*		880	740	5.11			
PCB-97	6.76e+05	1.56	y	35:54	0.78	178		-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*		880	740	6.65			
PCB-125	1.06e+06	1.54	y	36:11	0.80	273		-	-	*		Co-elute PCB 87/117	
PCB-87	1.06e+06	1.54	y	36:11	0.80	273		-	-	*		Co-elute PCB 125/117	
PCB-117	1.06e+06	1.54	y	36:11	0.80	273		-	-	*		Co-elute PCB 125/87	
PCB-111	5.11e+04	1.53	y	36:20	0.98	10.7	J	-	-	*		Co-elute PCB 115	
PCB-115	5.11e+04	1.53	y	36:20	0.98	10.7	J	-	-	*		Co-elute PCB 111	
PCB-85	4.05e+05	1.58	y	36:26	0.77	108		-	-	*		Co-elute PCB 116	
PCB-116	4.05e+05	1.58	y	36:26	0.77	108		-	-	*		Co-elute PCB 85	
PCB-120	*	*	n	NotFnd	0.89	*		880	740	4.88			
PCB-110	3.09e+06	1.54	y	36:49	0.92	687		-	-	*			
PCB-82	2.15e+05	1.54	y	37:24	0.51	85.6		-	-	*			
PCB-124	1.25e+05	1.53	y	38:03	1.11	23.1		-	-	*			
PCB-108	2.01e+05	1.74	y	38:13	1.18	34.9		-	-	*		Co-elute PCB 107	
PCB-107	2.01e+05	1.74	y	38:13	1.18	34.9		-	-	*		Co-elute PCB 108	
PCB-123	6.42e+04	1.53	y	38:24	1.37	10.2	J	-	-	*			
13C-PCB-123	4.60e+07	1.61	y	38:21	1.46	9840					98.4	5.86e+06	3.65e+06
PCB-118	2.48e+06	1.55	y	38:33	1.09	440		-	-	*		Co-elute PCB 106	
PCB-106	2.48e+06	1.55	y	38:33	1.09	440		-	-	*		Co-elute PCB 118	
13C-PCB-118	5.16e+07	1.64	y	38:31	1.59	10200					102	6.08e+06	3.68e+06
PCB-114	8.36e+04	1.41	y	39:10	1.18	14.2	J	-	-	*			
13C-PCB-114	4.99e+07	1.59	y	39:09	1.51	10300					103	5.70e+06	3.57e+06
PCB-122	4.47e+04	1.54	y	39:17	1.15	7.96	J	-	-	*			
PCB-105	8.76e+05	1.64	y	39:58	1.14	161		-	-	*			
13C-PCB-105	4.77e+07	1.64	y	39:57	1.47	10100					101	5.34e+06	3.27e+06

PCB-127	*	*	n	NotFnd	1.02	*		470	440	2.42				
PCB-126	*	*	n	NotFnd	1.18	*		470	440	2.66				
13C-PCB-126	4.41e+07	1.57	y	42:07	1.39	9950					99.5	4.55e+06	2.75e+06	
PCB-151	7.07e+05	1.27	y	37:47	0.89	236		-	-	*				
PCB-135	3.58e+05	1.25	y	38:00	0.90	117		-	-	*				
PCB-144	1.60e+05	1.31	y	38:05	0.85	56.0		-	-	*				
PCB-147	4.53e+04	1.17	y	38:13	0.90	14.9	J	-	-	*				
PCB-139	2.52e+06	1.26	y	38:28	0.95	780		-	-	*		Co-elute PCB 149		
PCB-149	2.52e+06	1.26	y	38:28	0.95	780		-	-	*		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.92	*		502	450	4.00				
PCB-143	1.20e+05	1.13	y	39:04	0.87	40.6		-	-	*		Co-elute PCB 134		
PCB-134	1.20e+05	1.13	y	39:04	0.87	40.6		-	-	*		Co-elute PCB 143		
PCB-131	6.01e+04	1.40	y	39:20	0.89	19.9	J	-	-	*		Co-elute PCB 133		
PCB-133	6.01e+04	1.40	y	39:20	0.89	19.9	J	-	-	*		Co-elute PCB 131		
PCB-142	1.26e+07	1.28	y	39:30	0.77	4820		-	-	*				
PCB-165	4.53e+05	1.33	y	39:43	1.04	129		-	-	*		Co-elute PCB 146		
PCB-146	4.53e+05	1.33	y	39:43	1.04	129		-	-	*		Co-elute PCB 165		
PCB-161	7.71e+05	1.33	y	39:58	0.97	235		-	-	*		Co-elute PCB 132		
PCB-132	7.71e+05	1.33	y	39:58	0.97	235		-	-	*		Co-elute PCB 161		
PCB-153	2.62e+06	1.27	y	40:06	1.01	771		-	-	*				
PCB-168	*	*	n	NotFnd	1.12	*		502	450	3.29				
PCB-141	3.98e+05	1.31	y	40:48	0.88	134		-	-	*				
PCB-137	6.87e+04	1.27	y	41:09	0.83	24.5		-	-	*				
PCB-130	1.09e+05	1.21	y	41:16	0.78	41.2		-	-	*				
PCB-138	2.18e+06	1.26	y	41:35	1.14	563		-	-	*		Co-elute PCB 163/164		
PCB-163	2.18e+06	1.26	y	41:35	1.14	563		-	-	*		Co-elute PCB 138/164		
PCB-164	2.18e+06	1.26	y	41:35	1.14	563		-	-	*		Co-elute PCB 138/163		
PCB-158	2.57e+05	1.06	y	41:49	1.14	66.7		-	-	*		Co-elute PCB 160		
PCB-160	2.57e+05	1.06	y	41:49	1.14	66.7		-	-	*		Co-elute PCB 158		
PCB-129	7.43e+04	1.09	y	42:03	0.73	29.9		-	-	*				
PCB-166	*	*	n	NotFnd	1.07	*		502	450	3.45				
PCB-159	2.95e+04	1.10	y	42:51	1.17	7.47	J	-	-	*				
PCB-128	2.36e+05	1.19	y	43:04	0.97	72.2		-	-	*		Co-elute PCB 162		
PCB-162	2.36e+05	1.19	y	43:04	0.97	72.2		-	-	*		Co-elute PCB 128		
PCB-167	5.95e+04	1.23	y	43:27	1.05	16.3	J	-	-	*				
13C-PCB-167	3.49e+07	1.29	y	43:27	1.15	9490					94.9	3.67e+06	2.84e+06	
PCB-156	1.26e+05	1.25	y	44:41	1.09	35.1		-	-	*				
13C-PCB-156	3.31e+07	1.27	y	44:40	1.12	9220					92.2	3.57e+06	2.78e+06	
PCB-157	2.50e+04	1.36	y	44:55	1.13	6.35	J	-	-	*				
13C-PCB-157	3.50e+07	1.29	y	44:56	1.15	9500					95.0	3.45e+06	2.72e+06	
PCB-169	*	*	n	NotFnd	1.06	*		502	450	3.31				
13C-PCB-169	3.23e+07	1.29	y	46:48	1.08	9300					93.0	3.78e+06	3.02e+06	

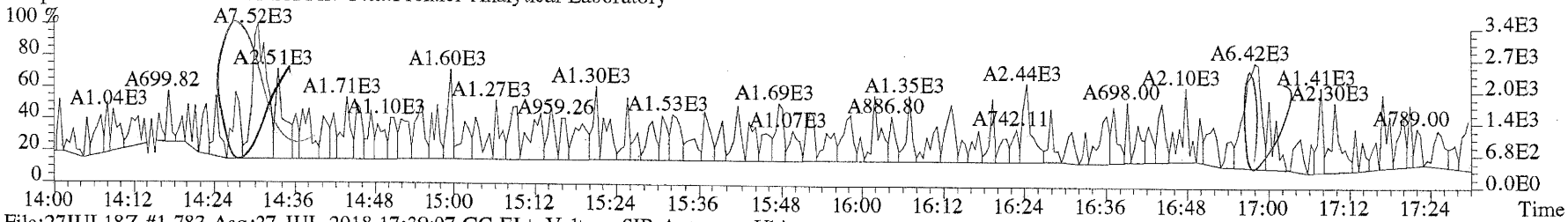
PCB-188	*	*	n	NotFnd	1.17	*		660	328	3.48			
13C-PCB-188	2.81e+07	1.07	y	39:42	0.93	9480					94.8	3.12e+06	2.94e+06
PCB-184	1.15e+07	1.06	y	40:08	1.22	3580		-	-	*			
PCB-179	2.54e+05	1.02	y	40:53	1.12	85.6		-	-	*			
PCB-176	7.95e+04	1.12	y	41:19	1.09	27.4		-	-	*			
PCB-186	*	*	n	NotFnd	1.14	*		660	328	3.47			
PCB-178	8.24e+04	1.01	y	42:21	0.80	38.9		-	-	*			
PCB-175	*	*	n	NotFnd	0.85	*		660	328	4.67			
PCB-187	4.43e+05	1.13	y	42:51	0.95	175		-	-	*		Co-elute PCB 182	
PCB-182	4.43e+05	1.13	y	42:51	0.95	175		-	-	*		Co-elute PCB 187	
PCB-183	2.12e+05	1.16	y	43:09	0.91	88.0		-	-	*			
PCB-185	4.29e+04	0.95	y	43:47	0.88	18.4	J	-	-	*			
PCB-174	3.09e+05	1.01	y	44:07	0.81	144		-	-	*			
PCB-181	*	*	n	NotFnd	0.92	*		660	328	4.28			
PCB-177	1.71e+05	1.08	y	44:23	0.79	81.6		-	-	*			
PCB-171	8.05e+04	1.02	y	44:41	0.83	36.6		-	-	*			
PCB-173	*	*	n	NotFnd	0.78	*		660	328	5.05			
PCB-172	2.67e+05	1.00	y	45:26	0.79	127		-	-	*			
PCB-192	7.69e+06	1.05	y	45:39	1.08	2700		-	-	*			
PCB-180	5.43e+05	1.13	y	45:49	1.04	196		-	-	*			
PCB-193	5.99e+04	1.13	y	46:00	1.12	20.2		-	-	*			
PCB-191	*	*	n	NotFnd	1.05	*		660	328	3.77			
PCB-170	1.89e+05	0.98	y	47:06	0.75	95.0		-	-	*			
PCB-190	5.75e+04	1.06	y	47:16	1.02	21.4		-	-	*			
PCB-189	*	*	n	NotFnd	1.13	*		660	328	3.36			
13C-PCB-189	2.49e+07	1.09	y	48:27	0.81	9570					95.7	3.38e+06	3.11e+06
PCB-202	*	*	n	NotFnd	1.00	*		172	320	2.95			
PCB-201	*	*	n	NotFnd	0.95	*		172	320	3.11			
PCB-204	1.44e+07	0.90	y	45:26	0.97	7920		-	-	*			
PCB-197	9.27e+04	0.86	y	45:41	1.05	47.5		-	-	*			
PCB-200	*	*	n	NotFnd	0.97	*		172	320	3.04			
PCB-198	*	*	n	NotFnd	0.70	*		172	320	4.23			
PCB-199	5.96e+04	0.93	y	47:42	0.78	41.2		-	-	*			
PCB-203	6.27e+04	0.88	y	47:57	0.80	41.8		-	-	*		Co-elute PCB 196	
PCB-196	6.27e+04	0.88	y	47:57	0.80	41.8		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.87e+07	0.93	y	44:48	0.60	9690					96.9	2.03e+06	2.15e+06
13C-PCB-178	2.04e+07	1.07	y	42:20	0.67	9580					95.8	2.24e+06	2.07e+06
13C-PCB-138	3.20e+07	1.28	y	41:34	-	74.0							
PCB-195	5.33e+04	0.99	y	49:03	0.78	16.2	J	-	-	*			
PCB-194	1.12e+05	0.88	y	49:52	0.83	31.9		-	-	*			
PCB-205	*	*	n	NotFnd	1.12	*		628	880	2.63			
13C-PCB-205	4.22e+07	0.92	y	50:06	1.29	8860					88.6	6.15e+06	6.69e+06
PCB-208	1.54e+04	1.26	y	49:11	1.01	4.37	J	-	-	*			
13C-PCB-208	3.50e+07	0.79	y	49:08	1.11	8550					85.5	4.55e+06	5.87e+06
PCB-207	1.06e+05	1.45	y	49:27	0.98	34.9		-	-	*			
PCB-206	2.65e+04	1.47	y	51:18	1.02	9.64	J	-	-	*			
13C-PCB-206	2.70e+07	0.81	y	51:18	0.89	8250					82.5	3.19e+06	4.10e+06
PCB-209	1.15e+05	1.05	y	52:30	1.11	35.0		-	-	*			
13C-PCB-209	2.96e+07	1.21	y	52:28	0.97	8250					82.5	5.33e+06	4.30e+06
13C-PCB-194	3.69e+07	0.94	y	49:51	-	83.5							

Analyst: _____ Date: 8/20/18

File:27JUL18Z #1-783 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-783 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-783 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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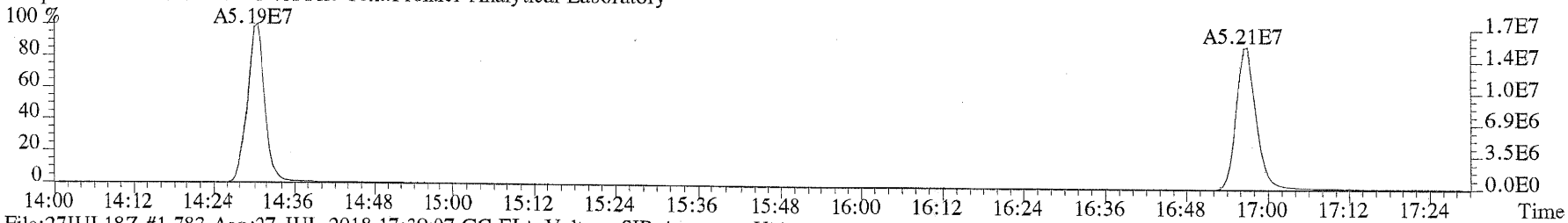
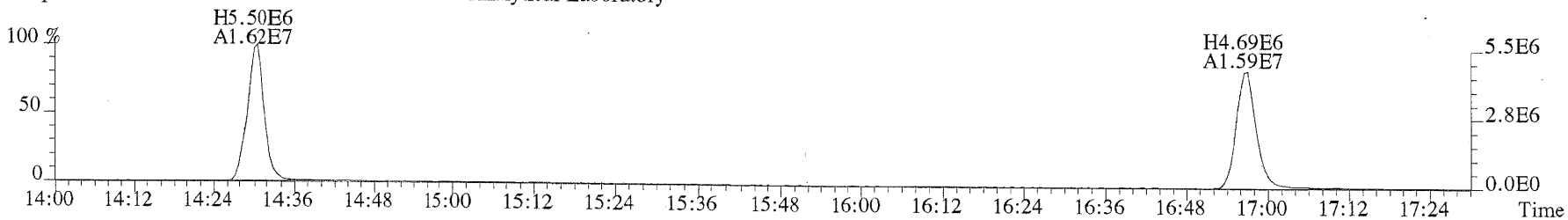
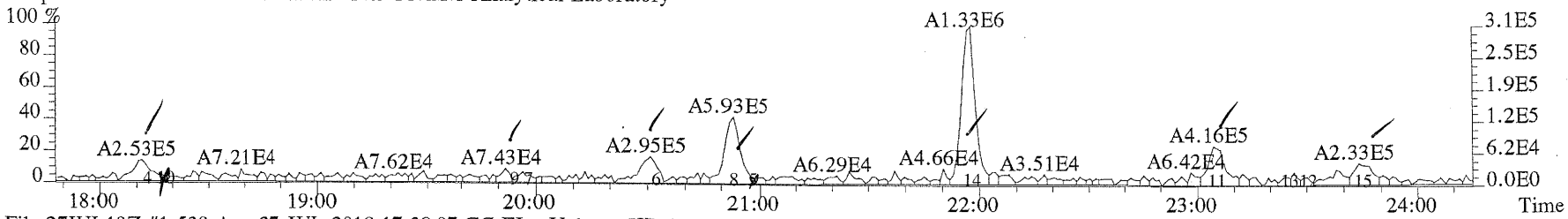


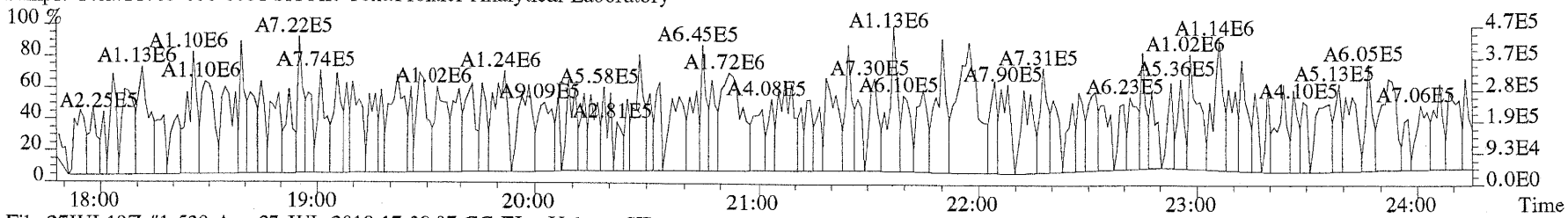
File:27JUL18Z #1-783 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



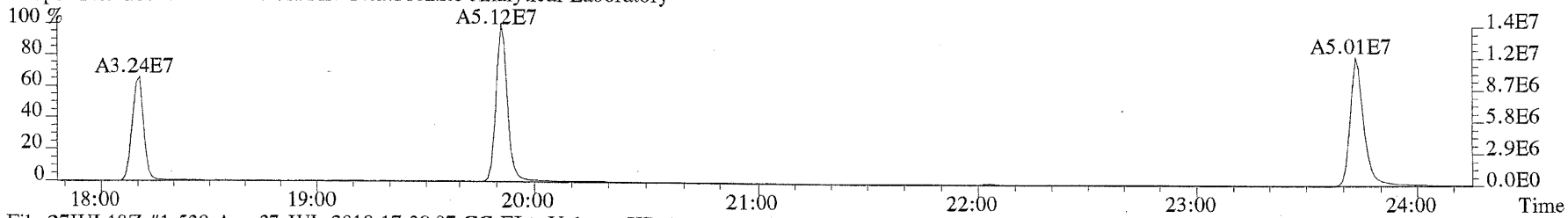
File:27JUL18Z #1-520 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



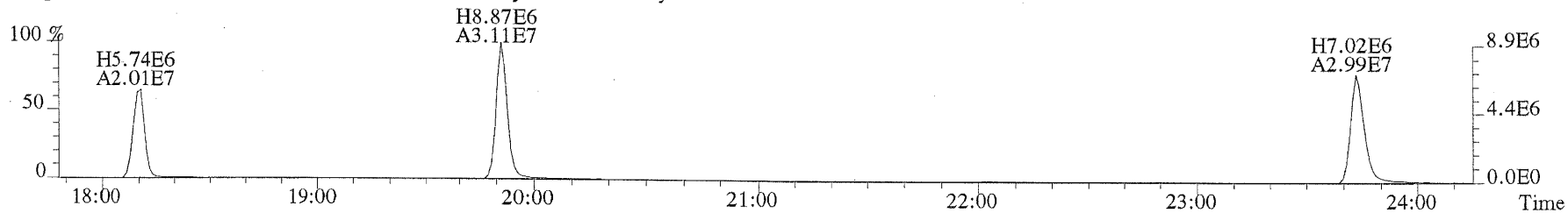
File:27JUL18Z #1-520 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



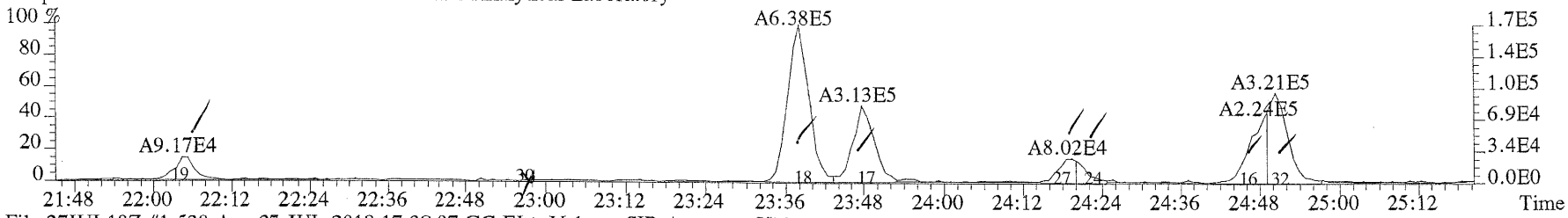
File:27JUL18Z #1-520 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



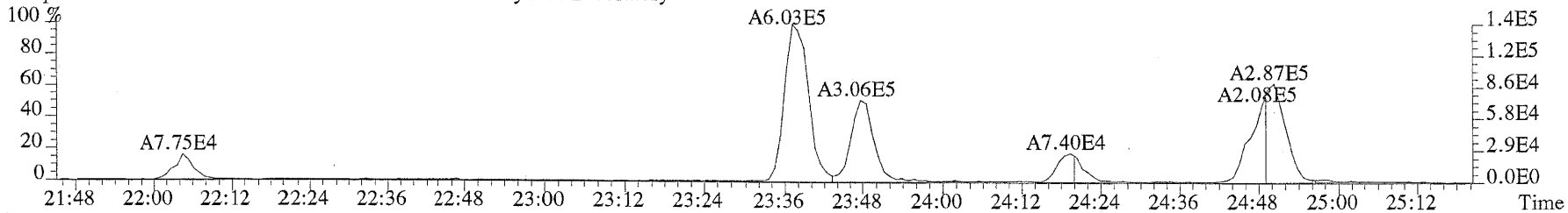
File:27JUL18Z #1-520 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



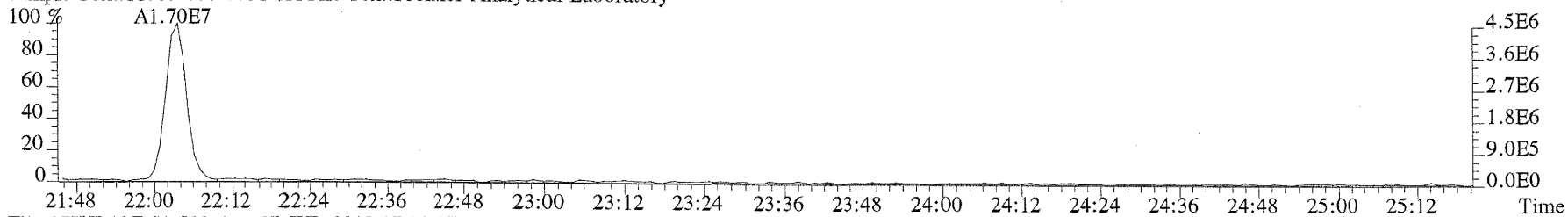
File:27JUL18Z #1-520 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



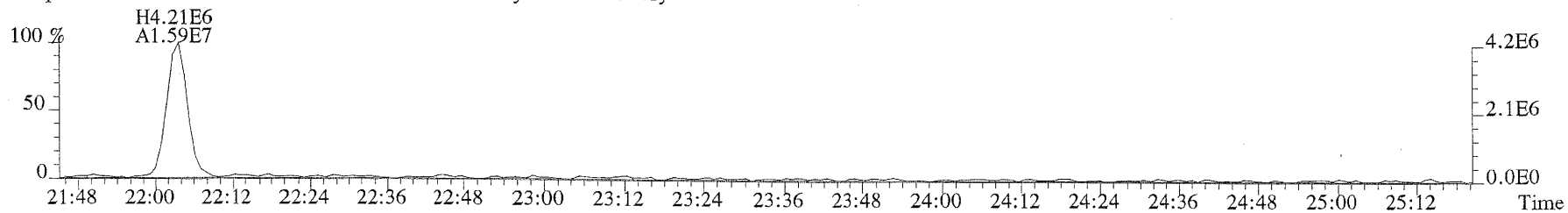
File:27JUL18Z #1-520 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



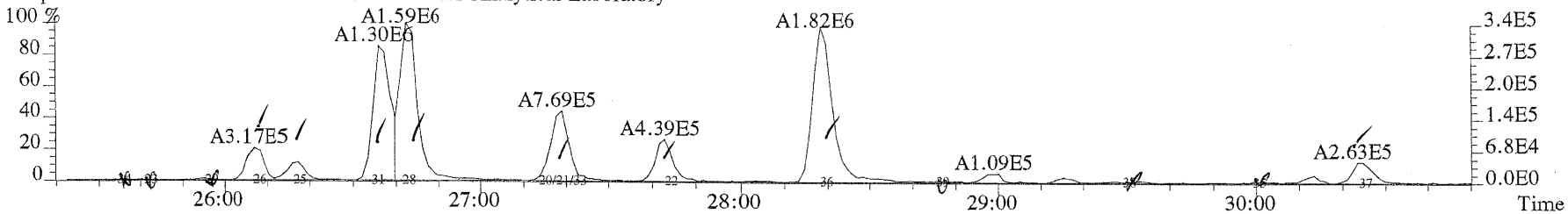
File:27JUL18Z #1-520 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



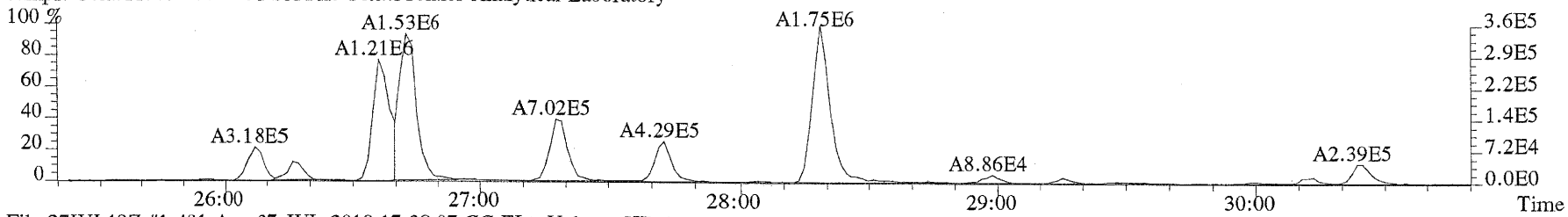
File:27JUL18Z #1-520 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



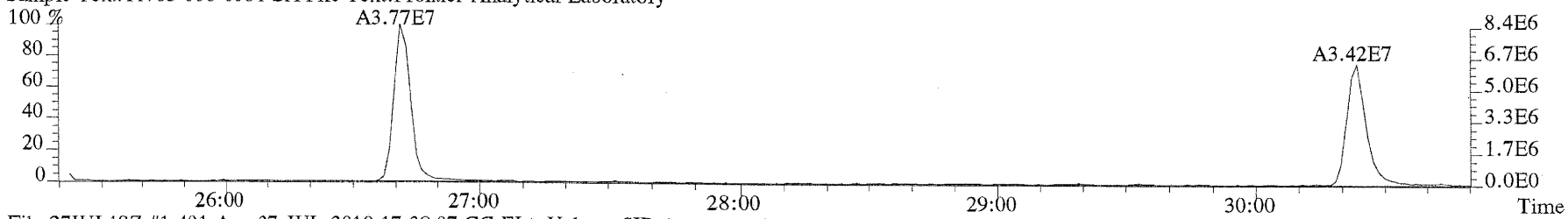
File:27JUL18Z #1-401 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



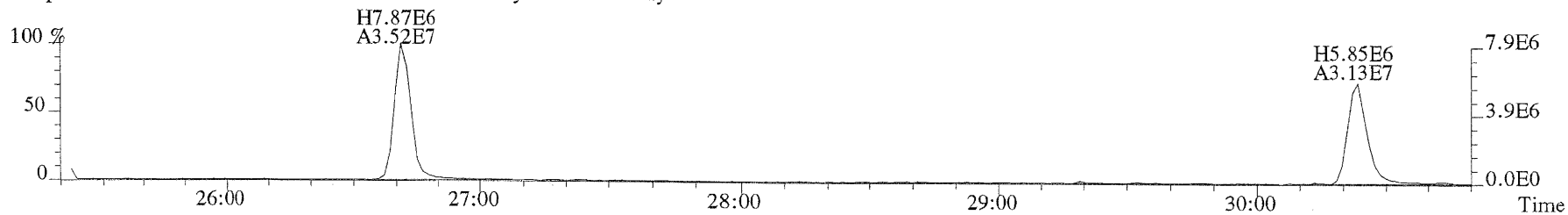
File:27JUL18Z #1-401 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



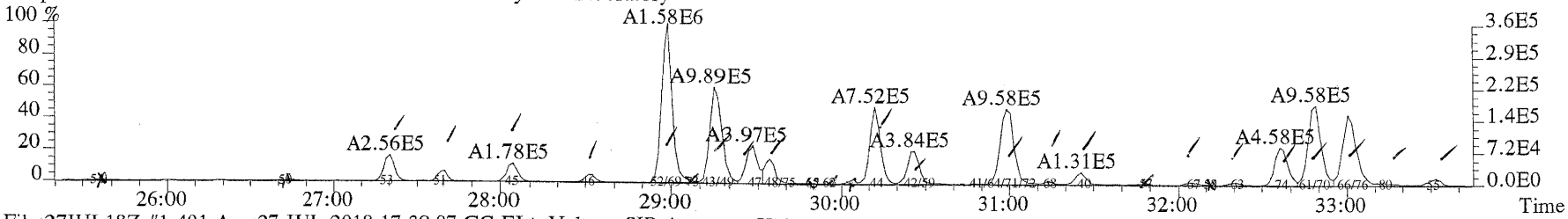
File:27JUL18Z #1-401 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



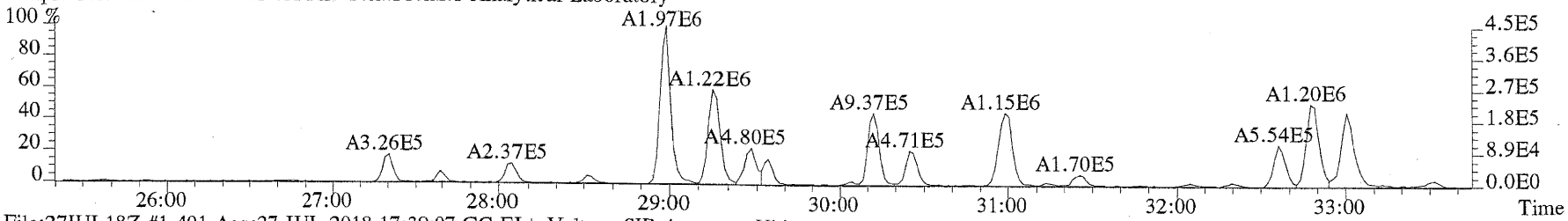
File:27JUL18Z #1-401 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



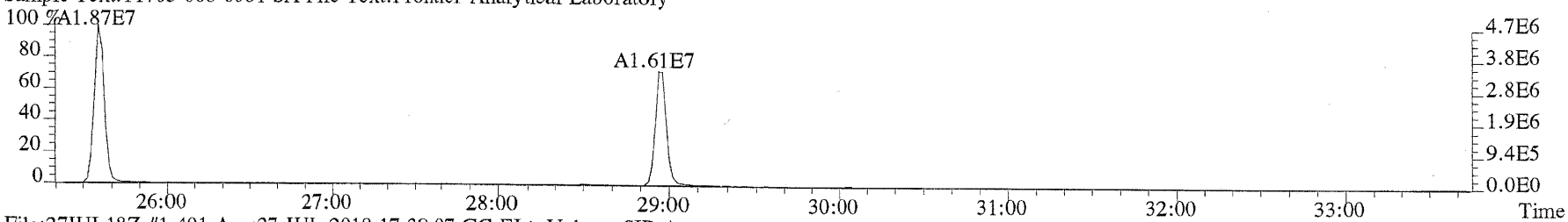
File:27JUL18Z #1-401 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



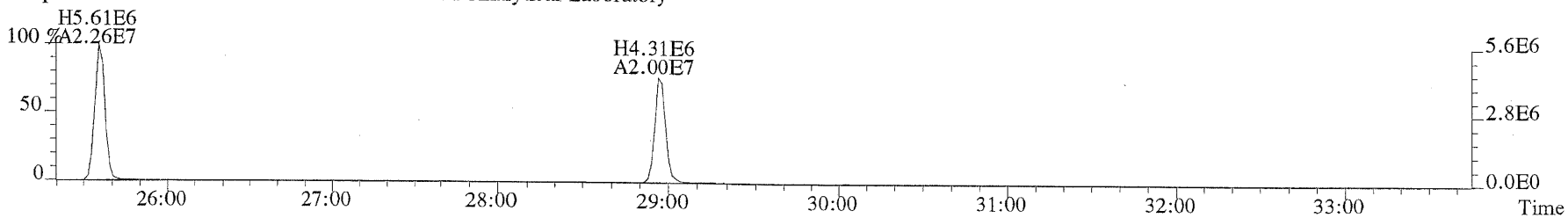
File:27JUL18Z #1-401 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



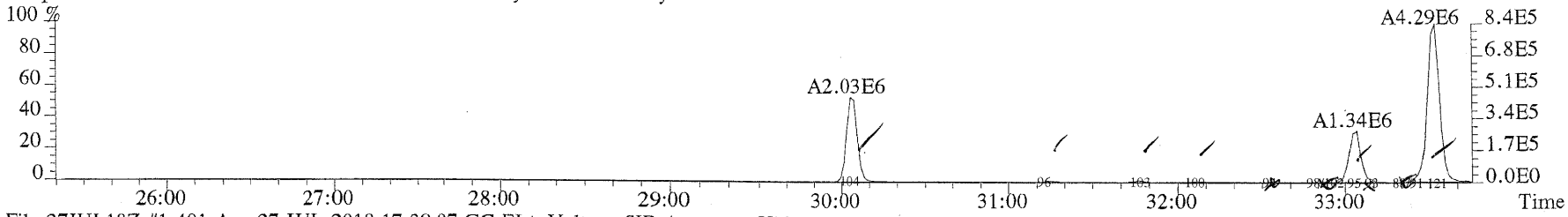
File:27JUL18Z #1-401 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



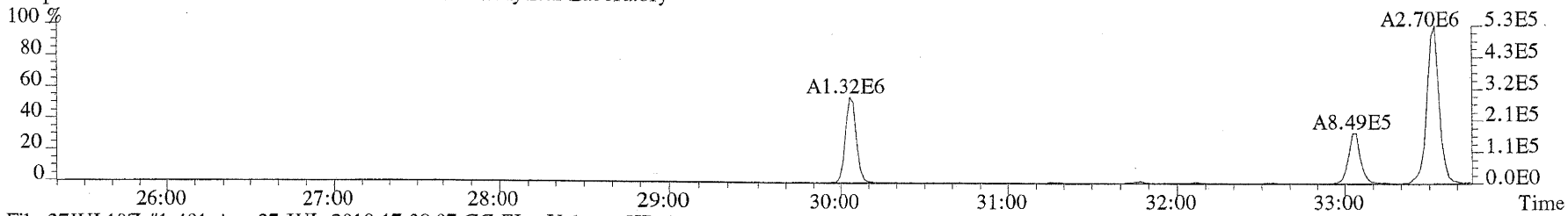
File:27JUL18Z #1-401 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



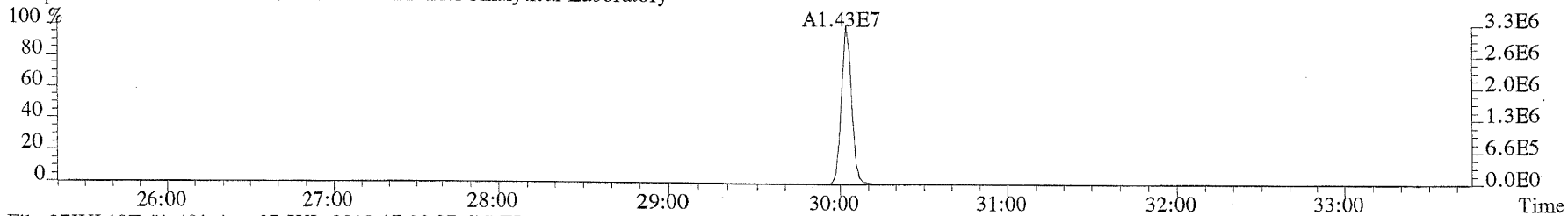
File:27JUL18Z #1-401 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



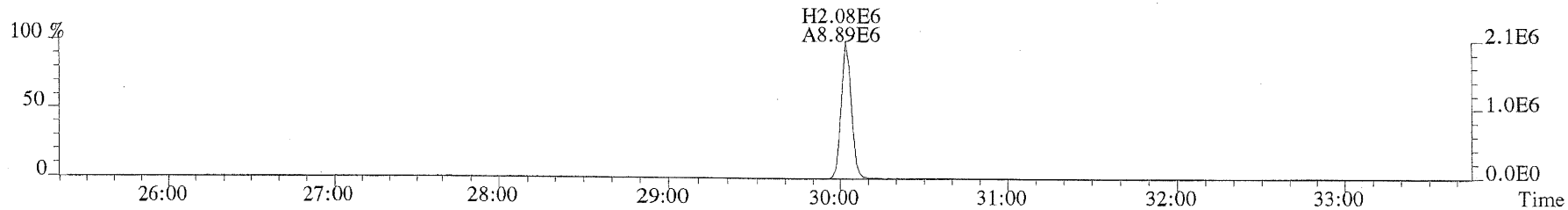
File:27JUL18Z #1-401 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



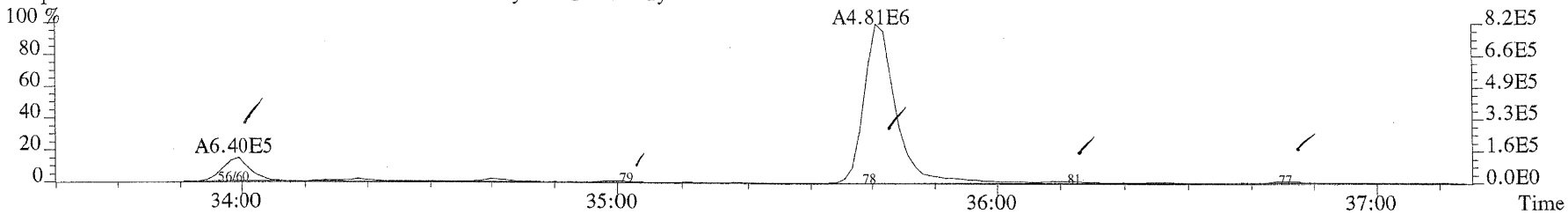
File:27JUL18Z #1-401 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



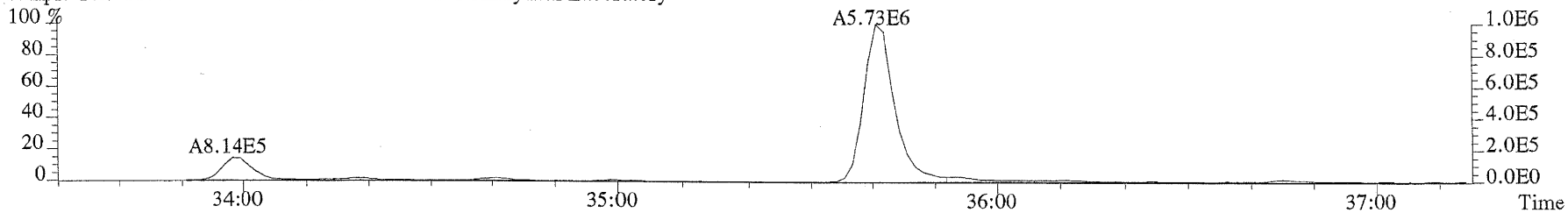
File:27JUL18Z #1-401 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



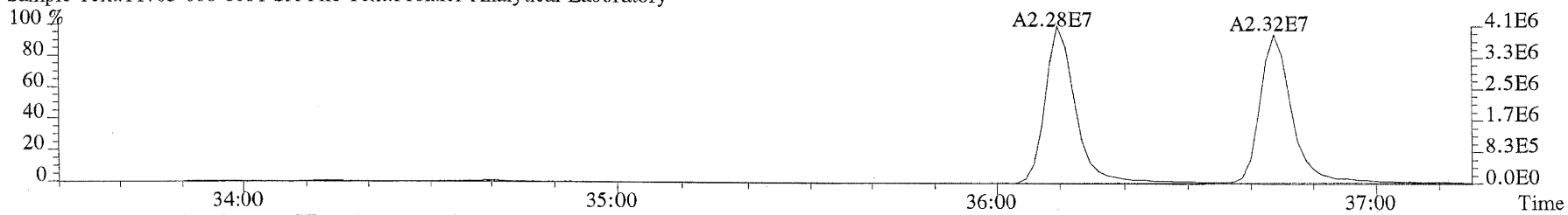
File:27JUL18Z #1-183 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



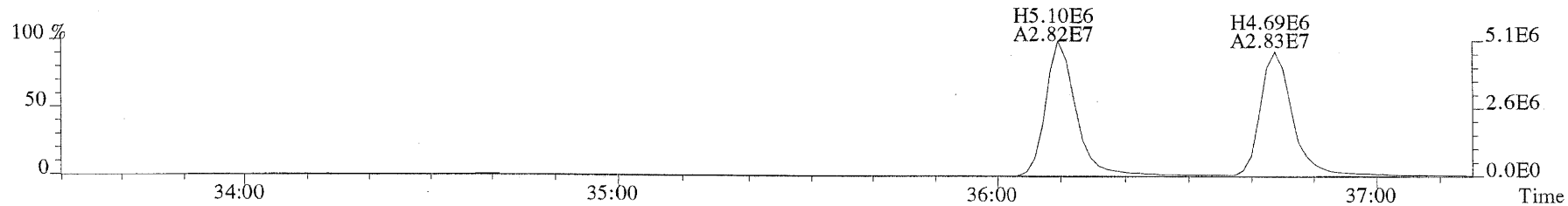
File:27JUL18Z #1-183 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



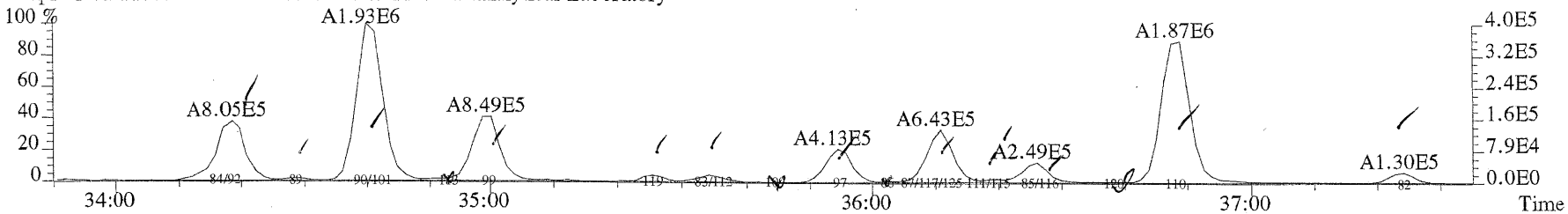
File:27JUL18Z #1-183 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



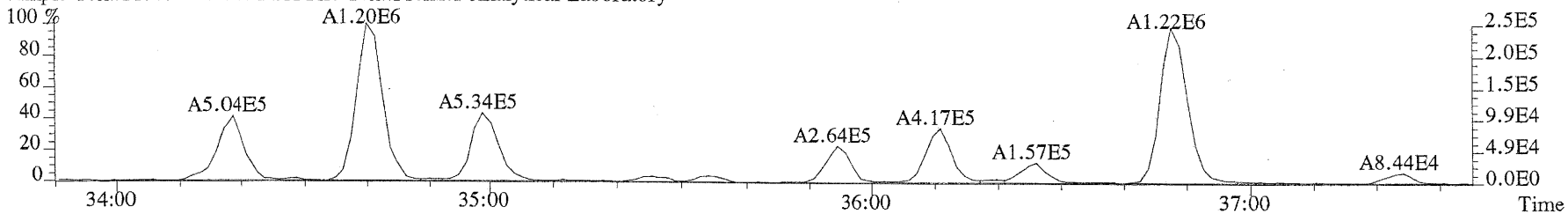
File:27JUL18Z #1-183 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



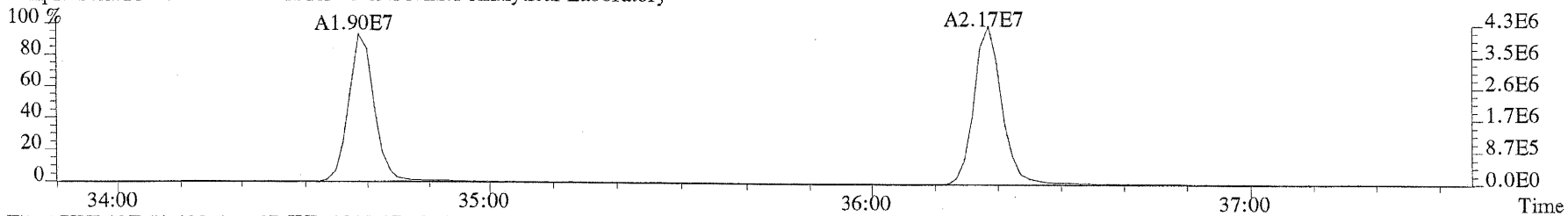
File:27JUL18Z #1-183 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



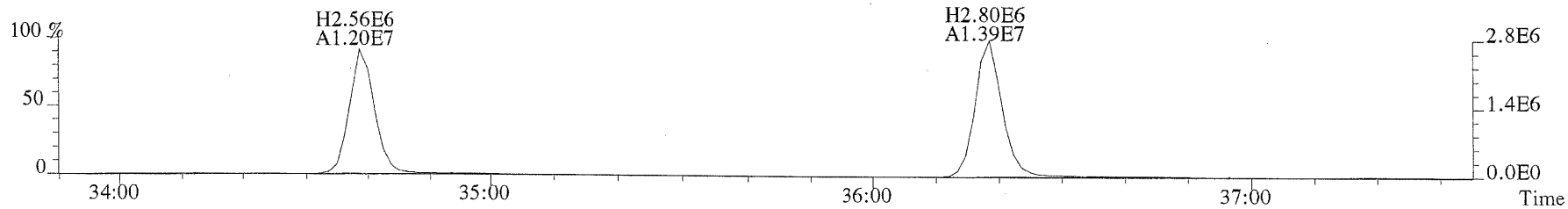
File:27JUL18Z #1-183 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



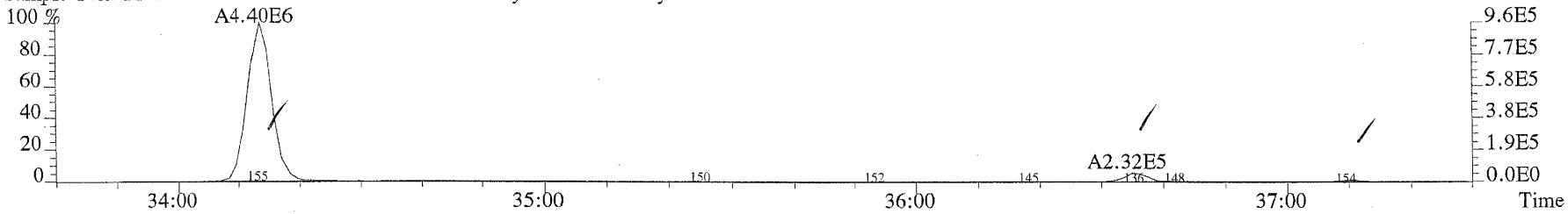
File:27JUL18Z #1-183 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



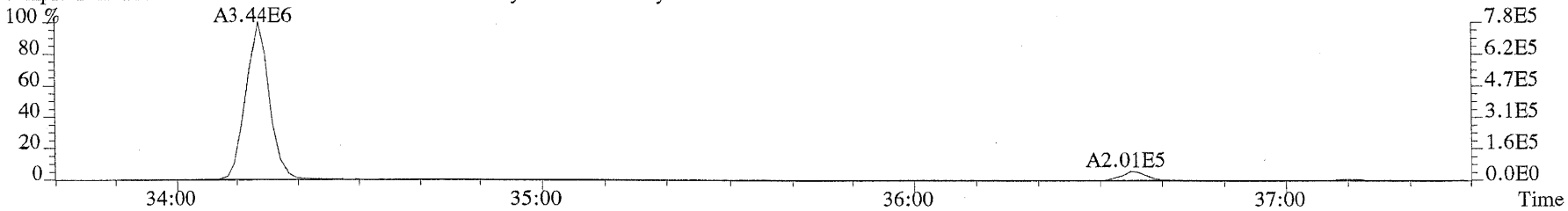
File:27JUL18Z #1-183 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



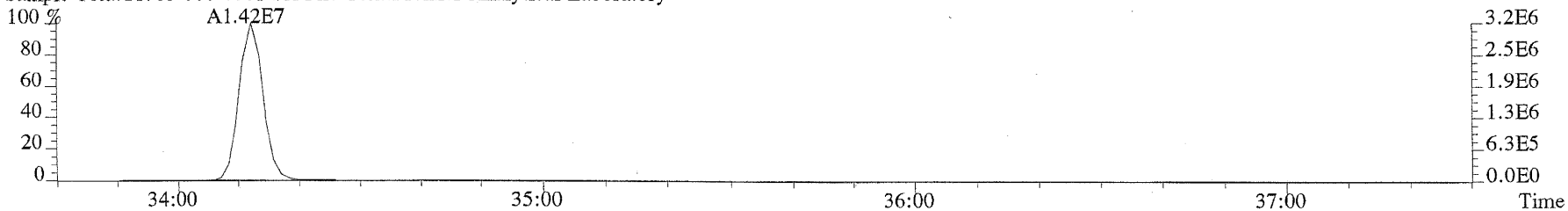
File:27JUL18Z #1-183 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



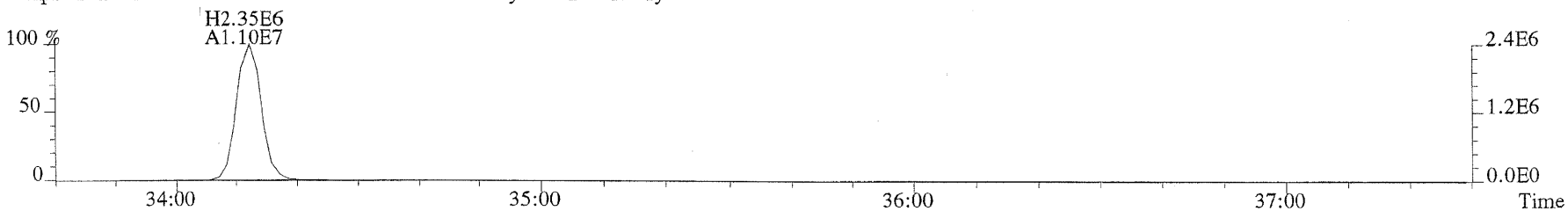
File:27JUL18Z #1-183 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



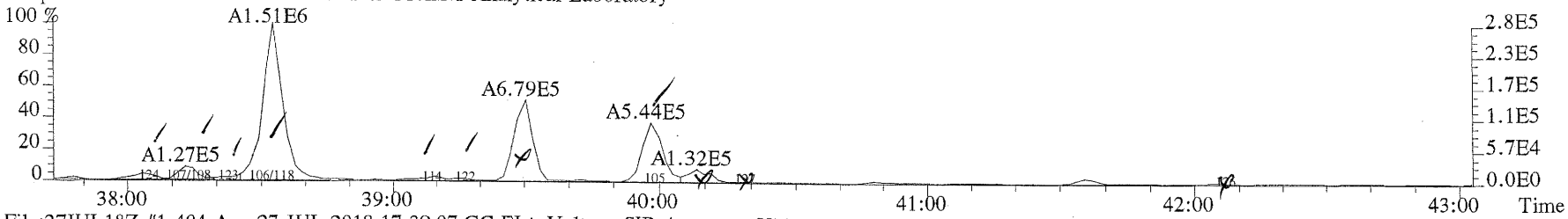
File:27JUL18Z #1-183 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



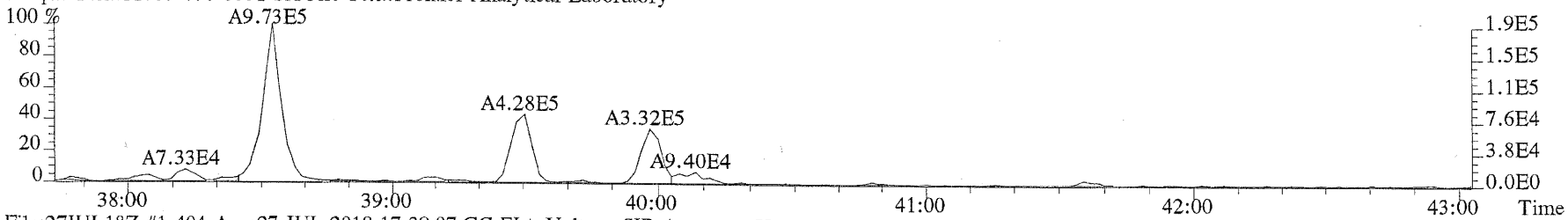
File:27JUL18Z #1-183 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



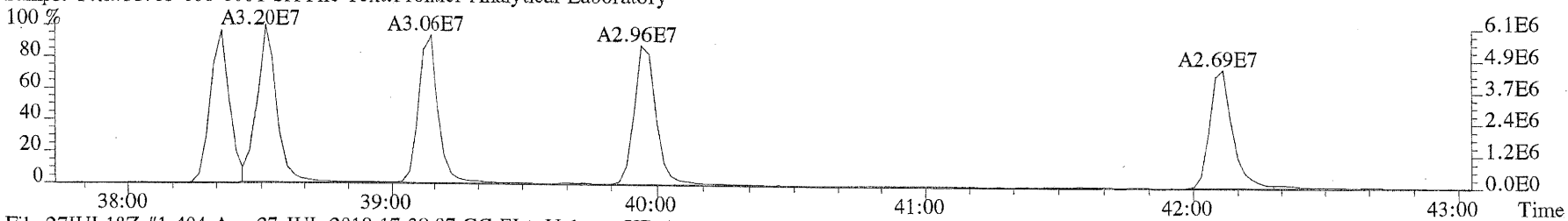
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



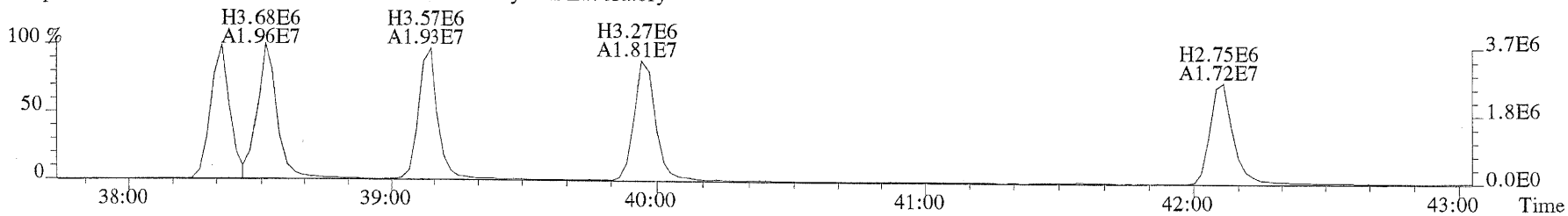
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



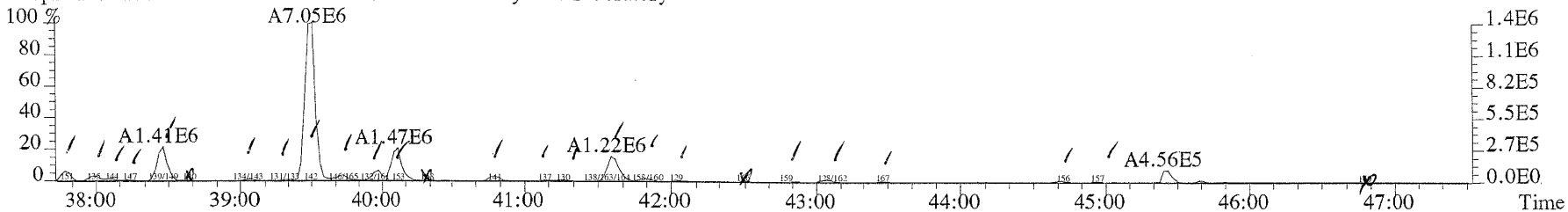
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



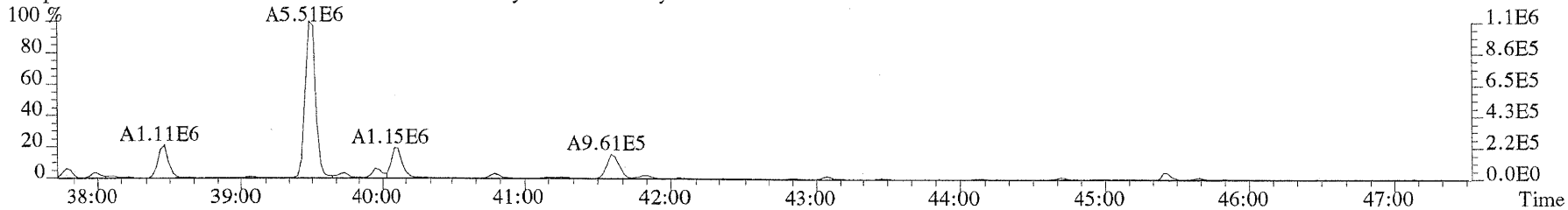
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



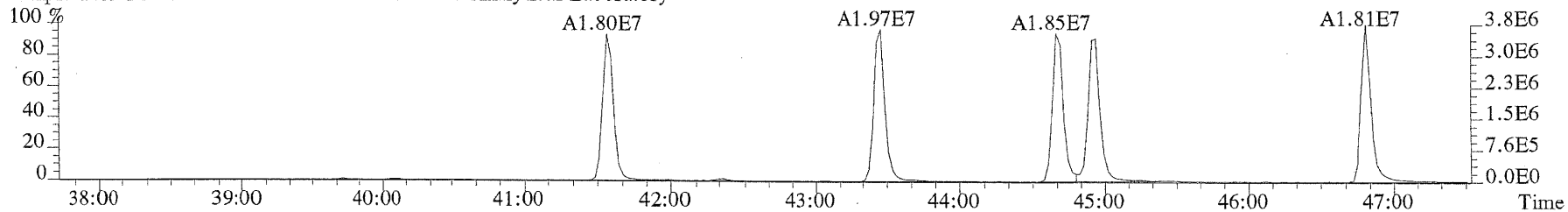
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



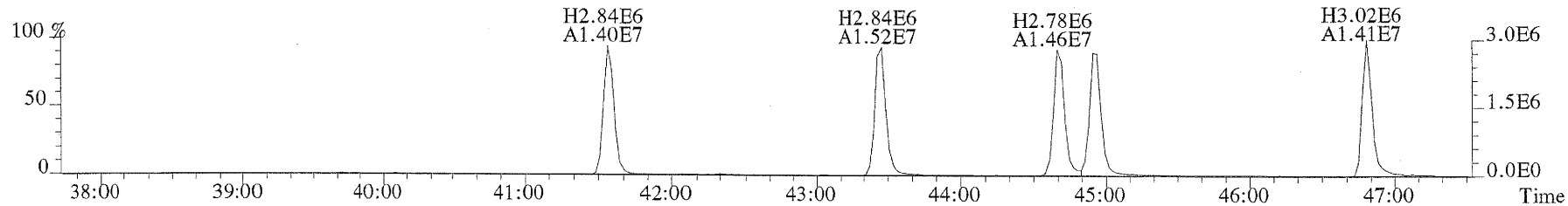
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



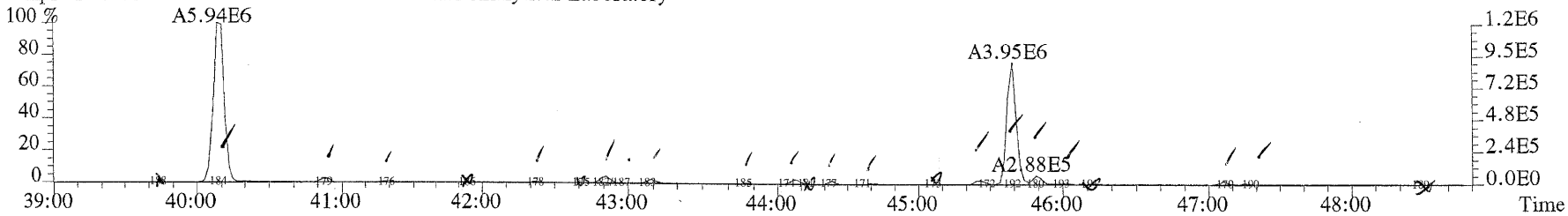
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



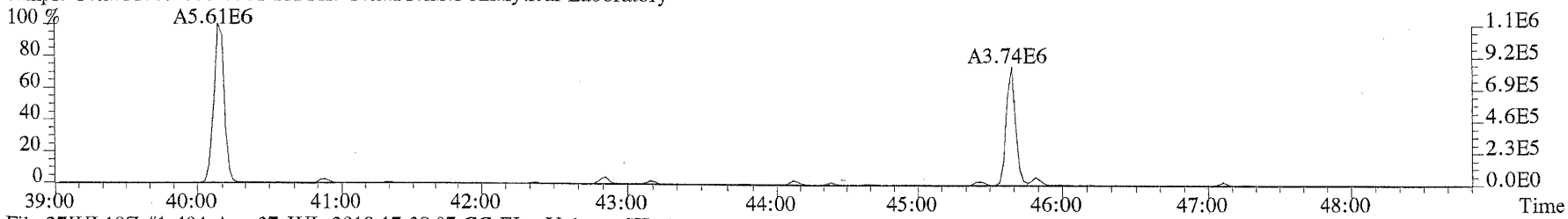
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



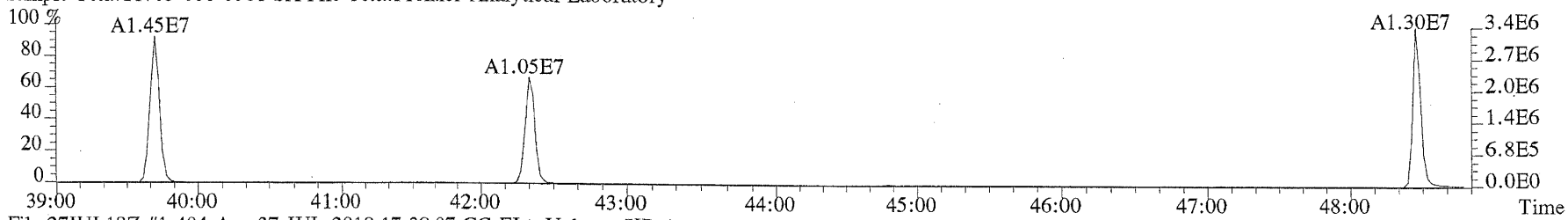
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



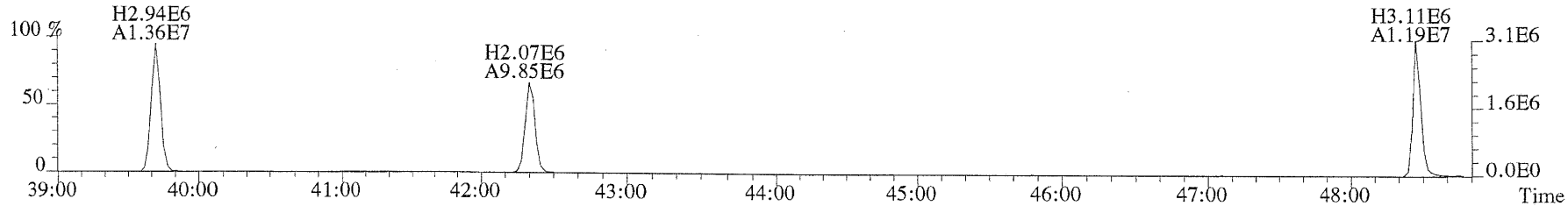
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



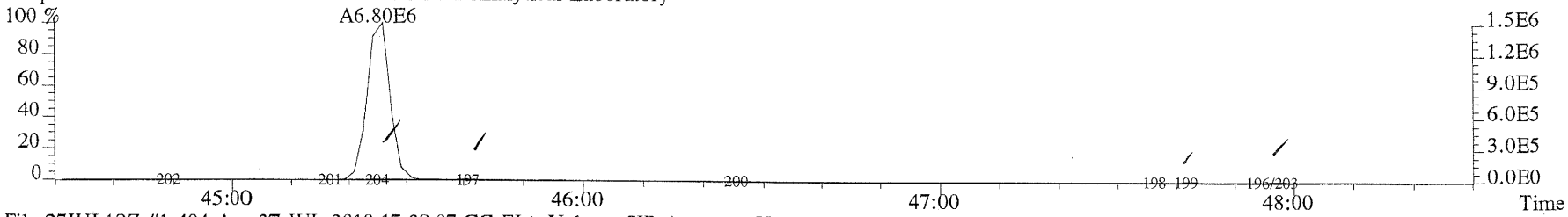
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



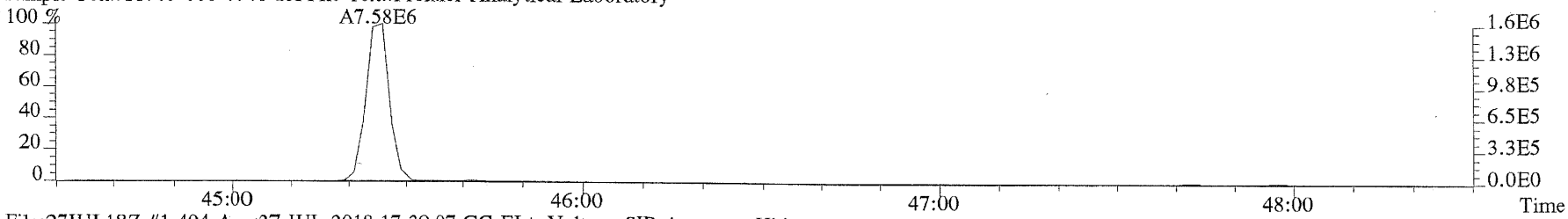
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



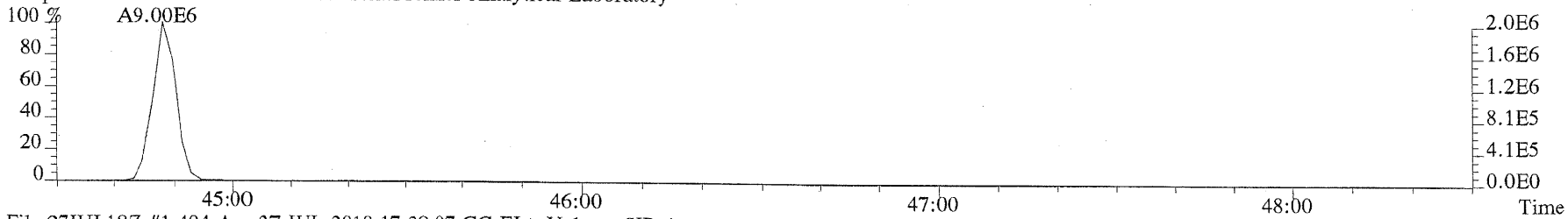
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



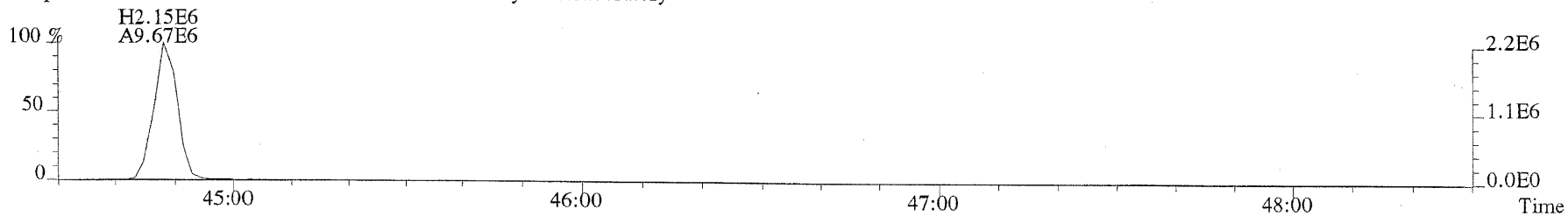
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



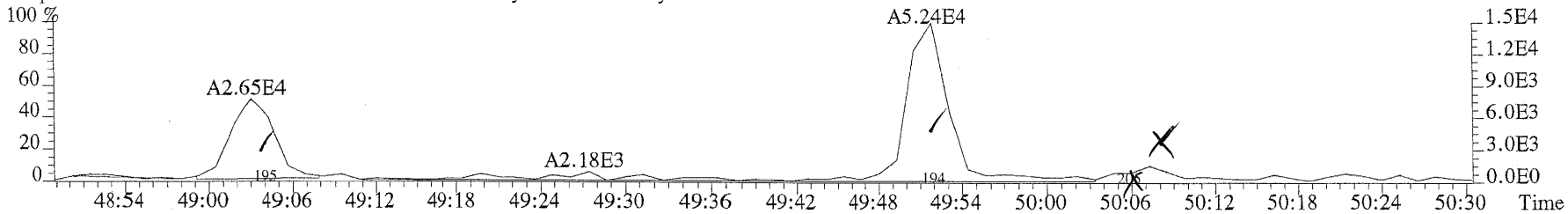
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



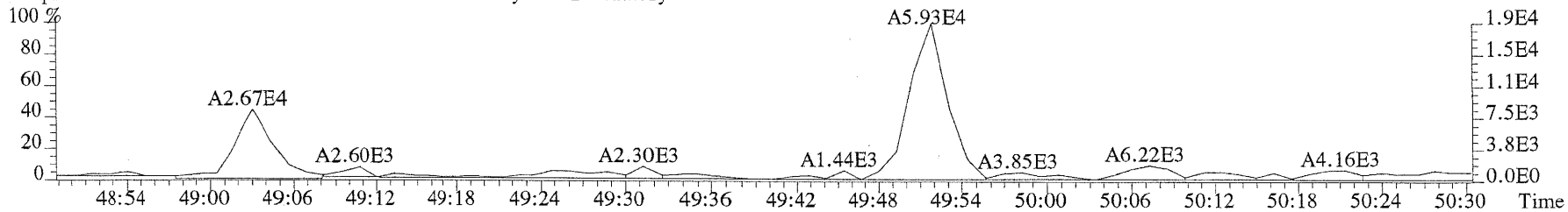
File:27JUL18Z #1-404 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



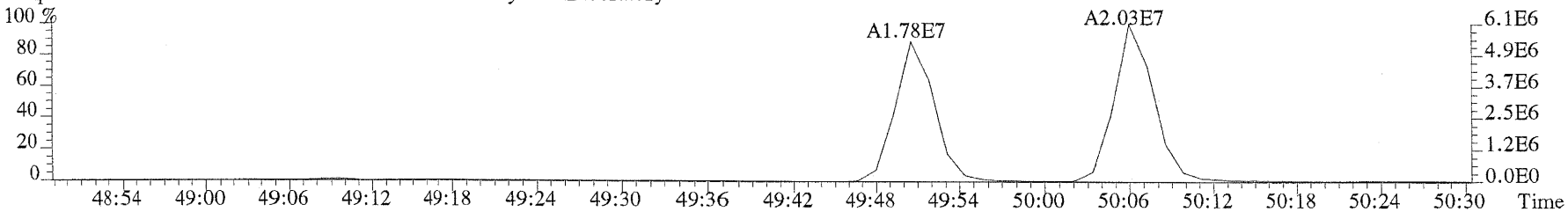
File:27JUL18Z #1-314 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



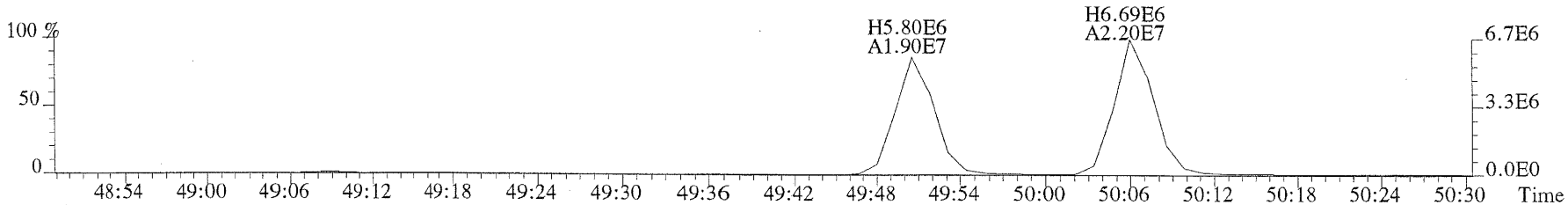
File:27JUL18Z #1-314 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



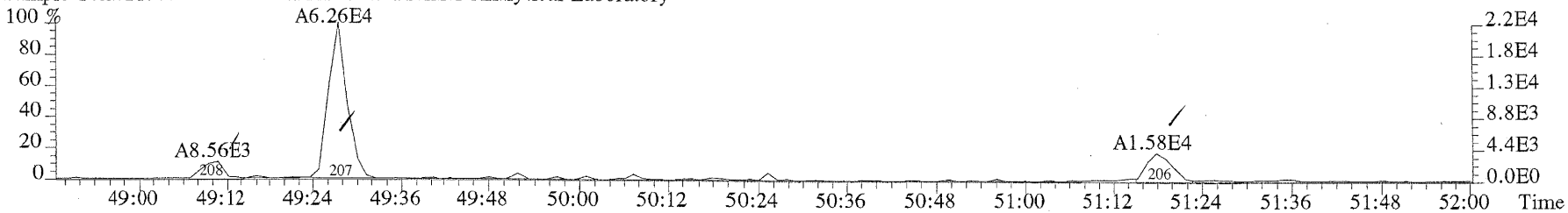
File:27JUL18Z #1-314 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



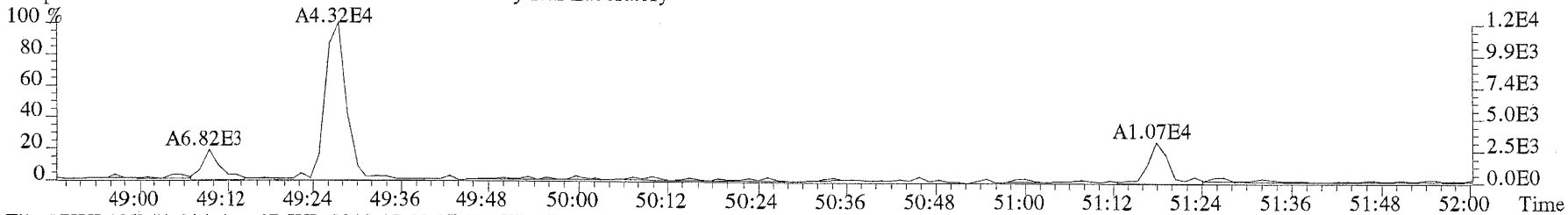
File:27JUL18Z #1-314 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



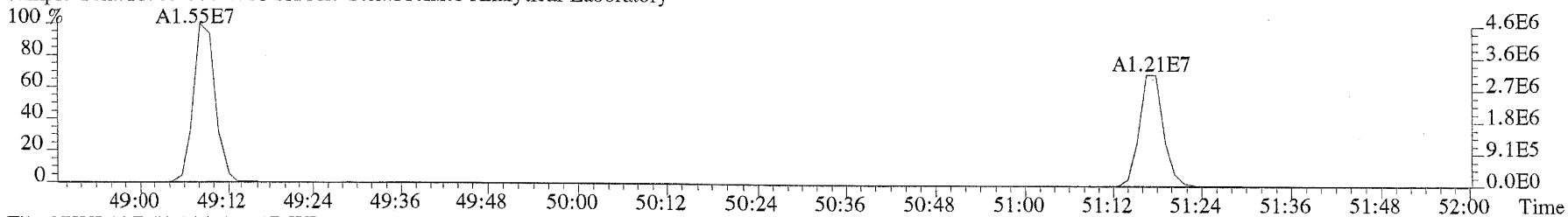
File:27JUL18Z #1-314 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



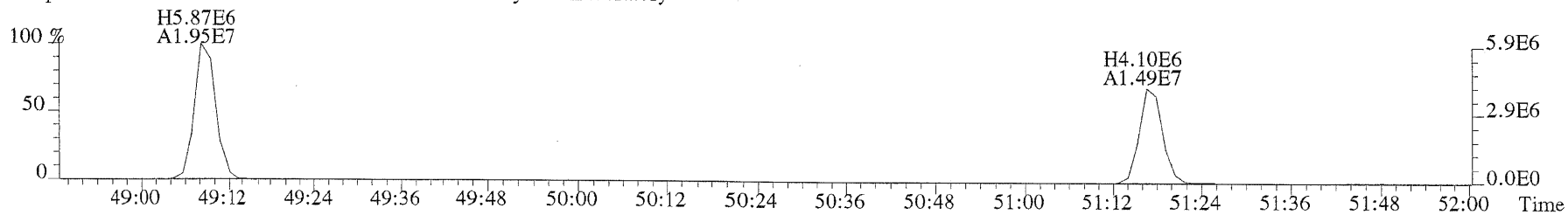
File:27JUL18Z #1-314 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



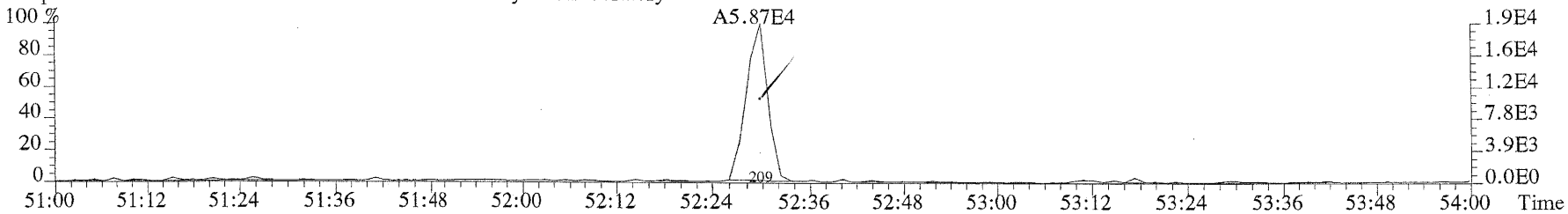
File:27JUL18Z #1-314 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



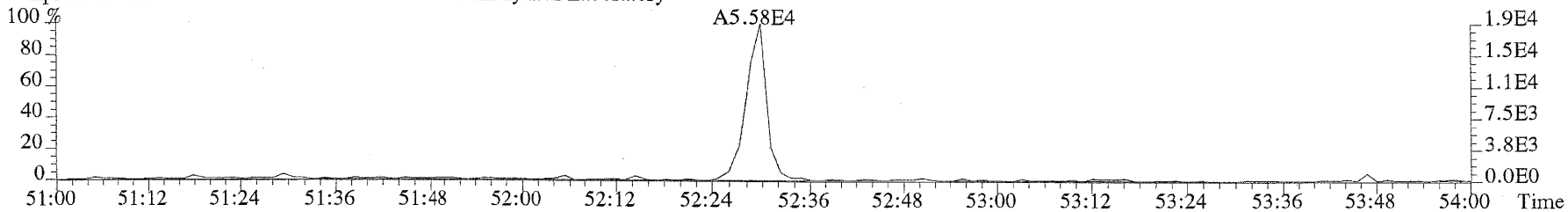
File:27JUL18Z #1-314 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



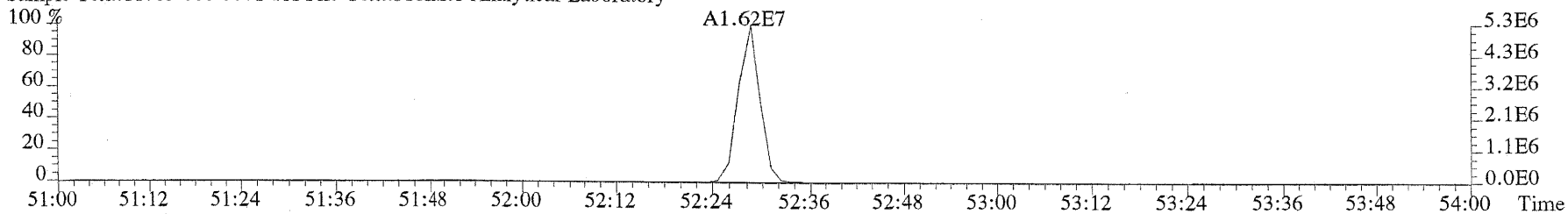
File:27JUL18Z #1-314 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



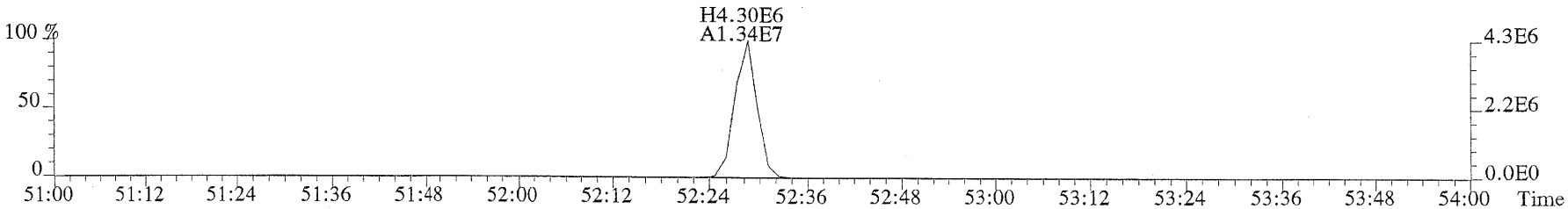
File:27JUL18Z #1-314 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 17:39:07 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-008-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11703-011-0001-SA Filename: 27JUL18Z Sam:11 Acquired: 27-JUL-18 18:37:29 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SU-ENR+AC-CA-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	6.07e+05	3.09 y	14:31	1.17	104		-	-	*			
13C-PCB-1	5.02e+07	3.16 y	14:30	0.92	8940					89.4	1.23e+07	3.94e+06
PCB-2	*	* n	NotFnd	1.05	*		1870	1500	5.22			
PCB-3	7.29e+04	3.24 y	16:58	1.16	12.3	J	-	-	*			
13C-PCB-3	5.11e+07	3.17 y	16:57	0.93	9000					90.0	1.13e+07	3.50e+06
PCB-4	1.19e+06	1.47 y	18:12	1.42	213		-	-	*			
PCB-10	1.72e+05	1.66 y	18:16	1.21	28.0		-	-	*			
13C-PCB-4	3.93e+07	1.59 y	18:10	0.68	9520					95.2	6.95e+06	4.41e+06
PCB-9	3.18e+05	1.38 y	19:53	1.40	44.6		-	-	*			
PCB-7	3.63e+05	1.57 y	19:55	1.40	51.1		-	-	*			
PCB-6	1.05e+06	1.42 y	20:31	1.33	155		-	-	*			
PCB-8	2.96e+06	1.63 y	20:53	1.35	431		-	-	*			
PCB-5	1.60e+05	1.56 y	21:00	1.35	23.3		-	-	*			
PCB-14	1.37e+06	1.68 y	21:57	1.31	206		-	-	*			
PCB-11	2.48e+05	1.50 y	23:04	1.24	39.3		-	-	*			
PCB-13	*	* n	NotFnd	1.32	*		1500	2300	5.53			
PCB-12	1.17e+05	1.44 y	23:26	1.30	17.7	J	-	-	*			
PCB-15	4.52e+05	1.65 y	23:46	1.26	57.4		-	-	*			
13C-PCB-15	6.24e+07	1.62 y	23:44	1.00	10200					102	8.91e+06	5.43e+06
PCB-19	5.14e+05	1.13 y	22:05	1.19	167		-	-	*			
PCB-30	*	* n	NotFnd	1.63	*		640	448	2.54			
PCB-18	5.01e+06	1.05 y	23:38	1.14	1700		-	-	*			
PCB-17	2.41e+06	1.05 y	23:48	1.23	757		-	-	*			
PCB-27	3.07e+05	1.01 y	24:19	1.49	79.7		-	-	*			
PCB-24	2.86e+05	1.14 y	24:21	1.69	65.5		-	-	*			
PCB-16	1.58e+06	1.04 y	24:49	1.36	450		-	-	*			
PCB-32	1.90e+06	1.10 y	24:51	1.41	522		-	-	*			
13C-PCB-19	2.58e+07	1.09 y	22:04	0.44	9550					95.5	3.46e+06	3.12e+06
13C-PCB-9	6.09e+07	1.64 y	19:52	-	53.3							
PCB-34	9.38e+04	1.00 y	25:36	1.03	16.4	J	-	-	*			
PCB-23	*	* n	NotFnd	1.10	*		990	790	3.68			
PCB-29	7.17e+04	0.92 y	25:57	1.14	11.3	J	-	-	*			
PCB-26	2.01e+06	1.04 y	26:07	1.04	346		-	-	*			
PCB-25	1.09e+06	1.08 y	26:16	1.36	144		-	-	*			
PCB-31	7.80e+06	1.03 y	26:38	1.12	1260		-	-	*			
PCB-28	8.16e+06	1.05 y	26:43	1.44	1020		-	-	*			
PCB-20	4.45e+06	1.03 y	27:18	1.24	647		-	-	*		Co-elute PCB 21/33	
PCB-21	4.45e+06	1.03 y	27:18	1.24	647		-	-	*		Co-elute PCB 20/33	
PCB-33	4.45e+06	1.03 y	27:18	1.24	647		-	-	*		Co-elute PCB 20/21	
PCB-22	2.47e+06	1.03 y	27:42	1.24	358		-	-	*			
PCB-36	2.86e+06	1.03 y	28:19	1.13	457		-	-	*			
PCB-39	*	* n	NotFnd	1.16	*		990	790	3.49			
PCB-38	7.22e+04	0.98 y	29:28	1.12	11.6	J	-	-	*			
PCB-35	7.87e+04	0.98 y	30:00	1.08	13.1	J	-	-	*			
PCB-37	9.23e+05	1.09 y	30:25	1.22	136		-	-	*			
13C-PCB-37	5.56e+07	1.06 y	30:24	1.72	11000					110	5.78e+06	5.24e+06

PCB-54	4.31e+04	0.71	y	25:37	1.21	11.0	J	-	-	*			
PCB-50	5.09e+04	0.86	y	26:44	0.91	17.3	J	-	-	*			
PCB-53	1.40e+06	0.77	y	27:21	0.93	467		-	-	*			
PCB-51	4.67e+05	0.79	y	27:40	0.95	152		-	-	*			
PCB-45	1.12e+06	0.80	y	28:05	0.79	439		-	-	*			
PCB-46	4.51e+05	0.81	y	28:31	0.78	179		-	-	*			
PCB-52	1.08e+07	0.79	y	28:59	1.13	2930		-	-	*	Co-elute PCB 69		
PCB-69	1.08e+07	0.79	y	28:59	1.13	2930		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.11	*		830	800	4.54			
PCB-43	6.48e+06	0.80	y	29:16	0.88	2280		-	-	*	Co-elute PCB 49		
PCB-49	6.48e+06	0.80	y	29:16	0.88	2280		-	-	*	Co-elute PCB 43		
PCB-47	2.03e+06	0.77	y	29:28	1.04	604		-	-	*			
PCB-48	1.99e+06	0.81	y	29:35	1.14	538		-	-	*	Co-elute PCB 75		
PCB-75	1.99e+06	0.81	y	29:35	1.14	538		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.15	*		830	800	4.38			
PCB-62	*	*	n	NotFnd	1.10	*		830	800	4.60			
PCB-44	5.43e+06	0.81	y	30:13	0.80	2090		-	-	*			
PCB-42	2.47e+06	0.79	y	30:27	1.07	716		-	-	*	Co-elute PCB 59		
PCB-59	2.47e+06	0.79	y	30:27	1.07	716		-	-	*	Co-elute PCB 42		
PCB-72	5.96e+06	0.82	y	30:59	1.14	1620		-	-	*	Co-elute PCB 41/71/64		
PCB-41	5.96e+06	0.82	y	30:59	1.14	1620		-	-	*	Co-elute PCB 72/71/64		
PCB-71	5.96e+06	0.82	y	30:59	1.14	1620		-	-	*	Co-elute PCB 72/41/64		
PCB-64	5.96e+06	0.82	y	30:59	1.14	1620		-	-	*	Co-elute PCB 72/41/71		
PCB-68	1.23e+05	0.87	y	31:15	1.22	31.1		-	-	*			
PCB-40	7.99e+05	0.83	y	31:26	0.70	353		-	-	*			
PCB-57	6.65e+04	0.75	y	31:47	1.10	18.7	J	-	-	*			
PCB-67	3.37e+04	0.81	y	32:11	1.18	8.78		-	-	*			
PCB-58	3.37e+04	0.81	y	32:11	1.07	9.70	J	-	-	*			
PCB-63	2.75e+05	0.74	y	32:19	1.12	75.7		-	-	*			
PCB-74	2.85e+06	0.77	y	32:37	1.25	702		-	-	*			
PCB-61	6.23e+06	0.79	y	32:48	1.19	1620		-	-	*	Co-elute PCB 70		
PCB-70	6.23e+06	0.79	y	32:48	1.19	1620		-	-	*	Co-elute PCB 61		
PCB-76	5.19e+06	0.78	y	33:01	1.18	1360		-	-	*	Co-elute PCB 66		
PCB-66	5.19e+06	0.78	y	33:01	1.18	1360		-	-	*	Co-elute PCB 76		
PCB-80	1.10e+05	0.80	y	33:12	1.28	26.3		-	-	*			
PCB-55	2.85e+05	0.76	y	33:31	1.17	75.2		-	-	*			
13C-PCB-54	3.24e+07	0.81	y	25:36	1.14	9620					96.2	3.60e+06	4.49e+06
PCB-104	3.91e+06	1.58	y	30:05	1.26	1660		-	-	*			
PCB-96	1.01e+05	1.66	y	31:16	1.11	48.5		-	-	*			
PCB-103	9.97e+04	1.73	y	31:46	0.97	55.0		-	-	*			
PCB-100	5.06e+04	1.44	y	32:06	0.97	27.9		-	-	*			
PCB-94	3.31e+04	1.64	y	32:33	0.82	21.6		-	-	*			
PCB-98	*	*	n	NotFnd	0.44	*		344	308	8.98	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.44	*		344	308	8.98	Co-elute PCB 98		
PCB-95	5.11e+06	1.58	y	33:03	0.89	3080		-	-	*			
PCB-93	*	*	n	NotFnd	0.82	*		344	308	4.89			
PCB-88	5.72e+05	1.54	y	33:27	0.91	338		-	-	*	Co-elute PCB 91		
PCB-91	5.72e+05	1.54	y	33:27	0.91	338		-	-	*	Co-elute PCB 88		
PCB-121	6.77e+06	1.59	y	33:32	1.08	3360		-	-	*			
13C-PCB-104	1.87e+07	1.61	y	30:04	0.64	9950					99.5	2.55e+06	1.55e+06
13C-PCB-28	5.96e+07	1.07	y	26:41	1.96	10300					103	7.15e+06	6.63e+06
13C-PCB-52	2.96e+07	0.80	y	28:58	-	53.1							

PCB-56	3.79e+06	0.78	y	33:59	1.22	742		-	-	*			Co-elute PCB 60
PCB-60	3.79e+06	0.78	y	33:59	1.22	742		-	-	*			Co-elute PCB 56
PCB-79	1.41e+05	0.71	y	35:01	1.22	27.7		-	-	*			
PCB-78	8.26e+06	0.79	y	35:41	1.17	1690		-	-	*			
PCB-81	2.59e+05	0.73	y	36:11	1.24	50.3		-	-	*			
13C-PCB-81	4.14e+07	0.80	y	36:10	1.62	10700					107	3.45e+06	4.26e+06
PCB-77	3.73e+05	0.80	y	36:47	1.18	75.5		-	-	*			
13C-PCB-77	4.20e+07	0.82	y	36:44	1.62	10900					109	3.39e+06	4.12e+06
PCB-155	7.71e+06	1.28	y	34:14	1.16	3280		-	-	*			
PCB-150	1.81e+04	1.27	y	35:26	1.03	8.62	J	-	-	*			
PCB-152	*	*	n	NotFnd	0.97	*		396	332	4.17			
PCB-145	*	*	n	NotFnd	1.00	*		396	332	4.08			
PCB-136	9.26e+05	1.23	y	36:35	0.89	511		-	-	*			
PCB-148	*	*	n	NotFnd	0.83	*		396	332	4.92			
PCB-154	8.81e+04	1.31	y	37:10	0.88	49.2		-	-	*			
13C-PCB-155	2.04e+07	1.25	y	34:13	0.86	9950					99.5	2.52e+06	1.96e+06
13C-PCB-111	2.82e+07	1.61	y	36:19	1.16	10200					102	3.61e+06	2.19e+06
13C-PCB-101	2.38e+07	1.58	y	34:39	-	54.0							
PCB-84	3.47e+06	1.61	y	34:19	0.65	1370		-	-	*			Co-elute PCB 92
PCB-92	3.47e+06	1.61	y	34:19	0.65	1370		-	-	*			Co-elute PCB 84
PCB-89	1.20e+05	1.51	y	34:29	0.62	49.2		-	-	*			
PCB-90	7.98e+06	1.53	y	34:40	0.71	2840		-	-	*			Co-elute PCB 101
PCB-101	7.98e+06	1.53	y	34:40	0.71	2840		-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.75	*		630	560	5.21			
PCB-99	3.43e+06	1.56	y	34:59	0.84	1040		-	-	*			
PCB-119	2.41e+05	1.39	y	35:26	0.90	68.2		-	-	*			
PCB-83	3.99e+05	1.68	y	35:35	0.70	144		-	-	*			Co-elute PCB 112
PCB-112	3.99e+05	1.68	y	35:35	0.70	144		-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.85	*		630	560	4.56			
PCB-97	2.02e+06	1.57	y	35:55	0.78	658		-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*		630	560	5.93			
PCB-125	2.82e+06	1.60	y	36:10	0.80	900		-	-	*			Co-elute PCB 87/117
PCB-87	2.82e+06	1.60	y	36:10	0.80	900		-	-	*			Co-elute PCB 125/117
PCB-117	2.82e+06	1.60	y	36:10	0.80	900		-	-	*			Co-elute PCB 125/87
PCB-111	1.83e+05	1.63	y	36:19	0.98	47.6		-	-	*			Co-elute PCB 115
PCB-115	1.83e+05	1.63	y	36:19	0.98	47.6		-	-	*			Co-elute PCB 111
PCB-85	1.04e+06	1.56	y	36:25	0.77	345		-	-	*			Co-elute PCB 116
PCB-116	1.04e+06	1.56	y	36:25	0.77	345		-	-	*			Co-elute PCB 85
PCB-120	2.58e+04	1.49	y	36:35	0.89	7.35	J	-	-	*			
PCB-110	8.33e+06	1.59	y	36:48	0.92	2300		-	-	*			
PCB-82	5.75e+05	1.46	y	37:23	0.51	285		-	-	*			
PCB-124	3.36e+05	1.46	y	38:05	1.11	77.1		-	-	*			
PCB-108	5.88e+05	1.40	y	38:13	1.18	127		-	-	*			Co-elute PCB 107
PCB-107	5.88e+05	1.40	y	38:13	1.18	127		-	-	*			Co-elute PCB 108
PCB-123	1.13e+05	1.45	y	38:22	1.37	22.0		-	-	*			
13C-PCB-123	3.74e+07	1.60	y	38:20	1.46	10100					101	4.41e+06	2.79e+06
PCB-118	6.63e+06	1.56	y	38:33	1.09	1460		-	-	*			Co-elute PCB 106
PCB-106	6.63e+06	1.56	y	38:33	1.09	1460		-	-	*			Co-elute PCB 118
13C-PCB-118	4.14e+07	1.65	y	38:32	1.59	10400					104	5.16e+06	3.16e+06
PCB-114	2.18e+05	1.45	y	39:09	1.18	46.6		-	-	*			
13C-PCB-114	3.97e+07	1.63	y	39:08	1.51	10400					104	4.60e+06	2.88e+06
PCB-122	9.06e+04	1.49	y	39:18	1.15	20.0		-	-	*			
PCB-105	2.23e+06	1.58	y	39:59	1.14	505		-	-	*			
13C-PCB-105	3.85e+07	1.61	y	39:57	1.47	10400					104	4.63e+06	2.88e+06

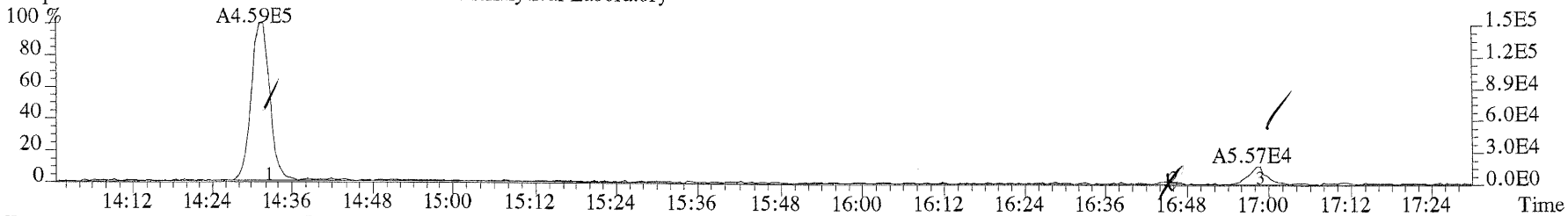
PCB-127	*	*	n	NotFnd	1.02	*		1220	1000	7.16				
PCB-126	*	*	n	NotFnd	1.18	*		1220	1000	7.29				
13C-PCB-126	3.81e+07	1.61	y	42:06	1.39	10900					109	3.99e+06	2.47e+06	
PCB-151	1.44e+06	1.31	y	37:47	0.89	569		-	-	*				
PCB-135	8.71e+05	1.20	y	37:59	0.90	337		-	-	*				
PCB-144	2.96e+05	1.24	y	38:05	0.85	122		-	-	*				
PCB-147	1.24e+05	1.19	y	38:13	0.90	48.1		-	-	*				
PCB-139	5.41e+06	1.30	y	38:28	0.95	1980		-	-	*		Co-elute PCB 149		
PCB-149	5.41e+06	1.30	y	38:28	0.95	1980		-	-	*		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.92	*		608	524	5.40				
PCB-143	3.28e+05	1.19	y	39:04	0.87	131		-	-	*		Co-elute PCB 134		
PCB-134	3.28e+05	1.19	y	39:04	0.87	131		-	-	*		Co-elute PCB 143		
PCB-131	1.49e+05	1.15	y	39:21	0.89	58.2		-	-	*		Co-elute PCB 133		
PCB-133	1.49e+05	1.15	y	39:21	0.89	58.2		-	-	*		Co-elute PCB 131		
PCB-142	1.15e+07	1.26	y	39:29	0.77	5200		-	-	*				
PCB-165	9.39e+05	1.26	y	39:42	1.04	315		-	-	*		Co-elute PCB 146		
PCB-146	9.39e+05	1.26	y	39:42	1.04	315		-	-	*		Co-elute PCB 165		
PCB-161	1.74e+06	1.25	y	39:57	0.97	627		-	-	*		Co-elute PCB 132		
PCB-132	1.74e+06	1.25	y	39:57	0.97	627		-	-	*		Co-elute PCB 161		
PCB-153	5.45e+06	1.27	y	40:05	1.01	1890		-	-	*				
PCB-168	1.97e+04	1.33	y	40:19	1.12	6.12	J	-	-	*				
PCB-141	8.96e+05	1.25	y	40:48	0.88	355		-	-	*				
PCB-137	2.34e+05	1.25	y	41:10	0.83	98.5		-	-	*				
PCB-130	2.76e+05	1.30	y	41:14	0.78	124		-	-	*				
PCB-138	5.26e+06	1.24	y	41:36	1.14	1610		-	-	*		Co-elute PCB 163/164		
PCB-163	5.26e+06	1.24	y	41:36	1.14	1610		-	-	*		Co-elute PCB 138/164		
PCB-164	5.26e+06	1.24	y	41:36	1.14	1610		-	-	*		Co-elute PCB 138/163		
PCB-158	6.47e+05	1.28	y	41:49	1.14	198		-	-	*		Co-elute PCB 160		
PCB-160	6.47e+05	1.28	y	41:49	1.14	198		-	-	*		Co-elute PCB 158		
PCB-129	1.95e+05	1.21	y	42:02	0.73	92.9		-	-	*				
PCB-166	*	*	n	NotFnd	1.07	*		608	524	4.66				
PCB-159	6.01e+04	1.07	y	42:52	1.17	18.0	J	-	-	*				
PCB-128	6.87e+05	1.31	y	43:05	0.97	248		-	-	*		Co-elute PCB 162		
PCB-162	6.87e+05	1.31	y	43:05	0.97	248		-	-	*		Co-elute PCB 128		
PCB-167	1.70e+05	1.24	y	43:28	1.05	56.3		-	-	*				
13C-PCB-167	2.89e+07	1.29	y	43:26	1.15	9970					99.7	3.10e+06	2.46e+06	
PCB-156	3.90e+05	1.18	y	44:42	1.09	128		-	-	*				
13C-PCB-156	2.80e+07	1.29	y	44:40	1.12	9900					99.0	3.20e+06	2.49e+06	
PCB-157	9.07e+04	1.30	y	44:57	1.13	27.4		-	-	*				
13C-PCB-157	2.94e+07	1.29	y	44:55	1.15	10100					101	3.17e+06	2.48e+06	
PCB-169	*	*	n	NotFnd	1.06	*		608	524	4.62				
13C-PCB-169	2.83e+07	1.24	y	46:49	1.08	10300					103	3.22e+06	2.58e+06	

FAL ID: 11703-011-0001-SA Filename: 27JUL18Z Sam:11 Acquired: 27-JUL-18 18:37:29 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SU-ENR+AC-CA-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

PCB-188	*	*	n	NotFnd	1.17	*		632	396	4.49			
13C-PCB-188	2.23e+07	1.08	y	39:42	0.93	9530					95.3	2.54e+06	2.35e+06
PCB-184	1.04e+07	1.08	y	40:09	1.22	3950		-	-	*			
PCB-179	5.66e+05	1.11	y	40:53	1.12	233		-	-	*			
PCB-176	1.75e+05	1.13	y	41:19	1.09	73.6		-	-	*			
PCB-186	*	*	n	NotFnd	1.14	*		632	396	4.31			
PCB-178	1.82e+05	1.05	y	42:22	0.80	105		-	-	*			
PCB-175	2.91e+04	1.14	y	42:42	0.85	15.8	J	-	-	*			
PCB-187	1.01e+06	1.06	y	42:50	0.95	489		-	-	*		Co-elute PCB 182	
PCB-182	1.01e+06	1.06	y	42:50	0.95	489		-	-	*		Co-elute PCB 187	
PCB-183	4.73e+05	1.00	y	43:10	0.91	240		-	-	*			
PCB-185	8.61e+04	1.16	y	43:48	0.88	45.1		-	-	*			
PCB-174	6.98e+05	1.02	y	44:07	0.81	397		-	-	*			
PCB-181	*	*	n	NotFnd	0.92	*		632	396	5.32			
PCB-177	4.02e+05	1.08	y	44:24	0.79	234		-	-	*			
PCB-171	1.67e+05	0.90	y	44:40	0.83	92.6		-	-	*			
PCB-173	*	*	n	NotFnd	0.78	*		632	396	6.27			
PCB-172	2.94e+05	1.13	y	45:26	0.79	171		-	-	*			
PCB-192	6.86e+06	1.03	y	45:38	1.08	2940		-	-	*			
PCB-180	1.29e+06	1.11	y	45:49	1.04	570		-	-	*			
PCB-193	1.07e+05	1.20	y	45:59	1.12	43.9		-	-	*			
PCB-191	4.25e+04	1.15	y	46:12	1.05	18.7	J	-	-	*			
PCB-170	4.62e+05	1.11	y	47:07	0.75	284		-	-	*			
PCB-190	1.30e+05	0.93	y	47:15	1.02	59.1		-	-	*			
PCB-189	*	*	n	NotFnd	1.13	*		632	396	4.00			
13C-PCB-189	2.12e+07	1.08	y	48:27	0.81	10300					103	2.96e+06	2.72e+06
PCB-202	4.50e+04	0.90	y	44:50	1.00	31.0		-	-	*			
PCB-201	*	*	n	NotFnd	0.95	*		208	308	4.26			
PCB-204	1.27e+07	0.91	y	45:25	0.97	9010		-	-	*			
PCB-197	9.46e+04	0.84	y	45:41	1.05	62.3		-	-	*			
PCB-200	3.24e+04	0.95	y	46:26	0.97	23.0		-	-	*			
PCB-198	*	*	n	NotFnd	0.70	*		208	308	5.79			
PCB-199	1.62e+05	0.94	y	47:43	0.78	143		-	-	*			
PCB-203	1.86e+05	0.94	y	47:58	0.80	160		-	-	*		Co-elute PCB 196	
PCB-196	1.86e+05	0.94	y	47:58	0.80	160		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.45e+07	0.93	y	44:48	0.60	9560					95.6	1.56e+06	1.64e+06
13C-PCB-178	1.63e+07	1.09	y	42:20	0.67	9680					96.8	1.88e+06	1.73e+06
13C-PCB-138	2.52e+07	1.29	y	41:34	-	58.3							
PCB-195	1.29e+05	0.81	y	49:03	0.78	47.5		-	-	*			
PCB-194	3.44e+05	0.93	y	49:52	0.83	119		-	-	*			
PCB-205	2.67e+04	0.91	y	50:07	1.12	6.86	J	-	-	*			
13C-PCB-205	3.49e+07	0.92	y	50:06	1.29	9040					90.4	5.16e+06	5.54e+06
PCB-208	3.38e+04	1.32	y	49:10	1.01	11.9	J	-	-	*			
13C-PCB-208	2.83e+07	0.80	y	49:08	1.11	8560					85.6	4.16e+06	5.16e+06
PCB-207	1.02e+05	1.49	y	49:28	0.98	41.1		-	-	*			
PCB-206	7.78e+04	1.42	y	51:18	1.02	34.0		-	-	*			
13C-PCB-206	2.25e+07	0.81	y	51:17	0.89	8500					85.0	2.95e+06	3.62e+06
PCB-209	1.16e+05	1.07	y	52:29	1.11	43.9		-	-	*			
13C-PCB-209	2.38e+07	1.21	y	52:29	0.97	8220					82.2	3.60e+06	2.90e+06
13C-PCB-194	2.98e+07	0.94	y	49:51	-	67.5							

Analyst: _____ Date: 8/30/18

File:27JUL18Z #1-783 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:11 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



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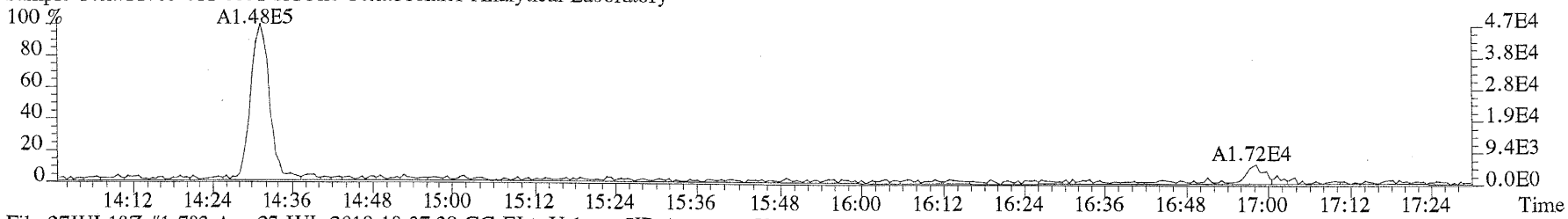
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



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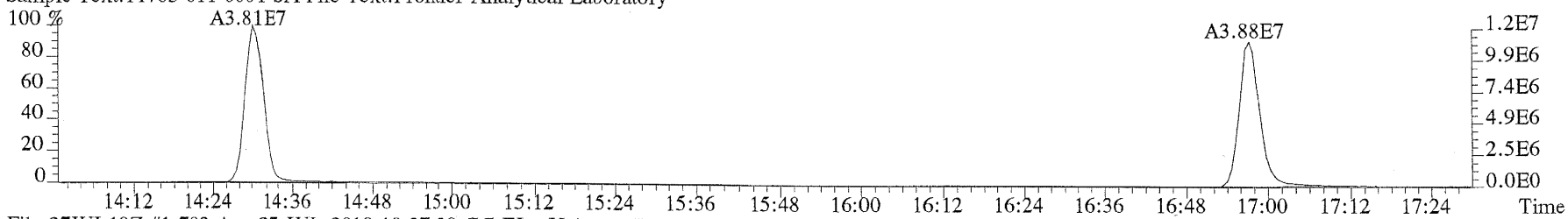
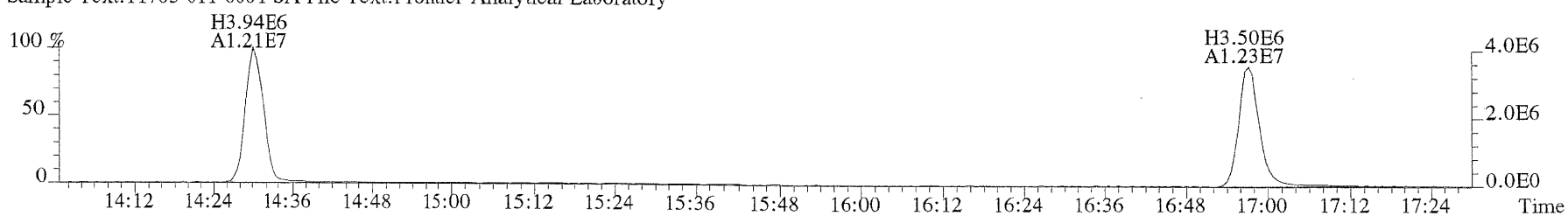
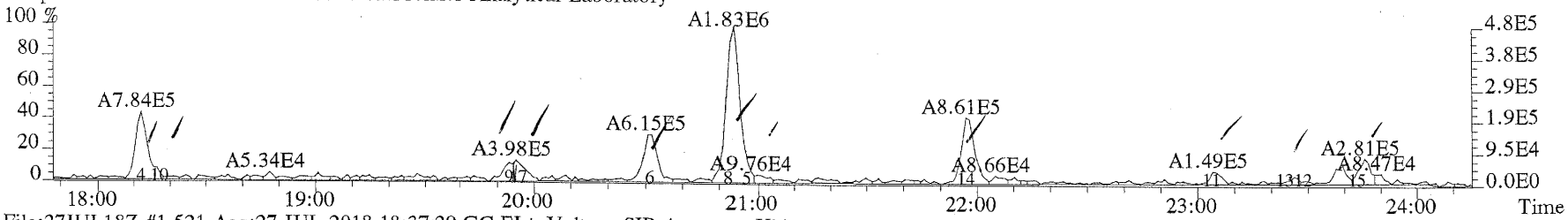
200.0795 S:11 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



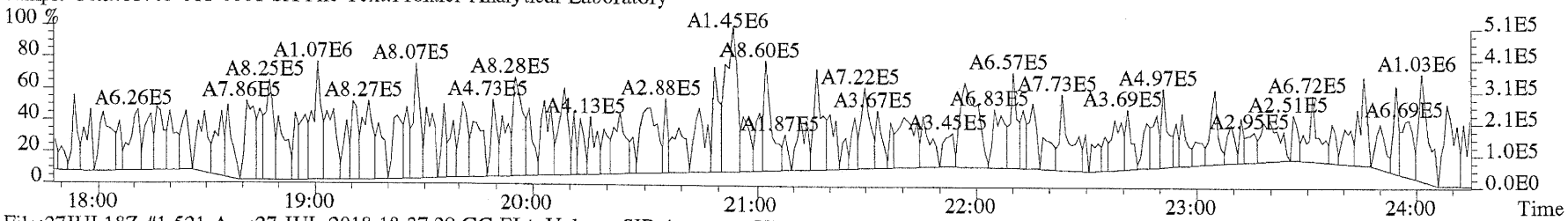
File:27JUL18Z #1-783 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:11 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



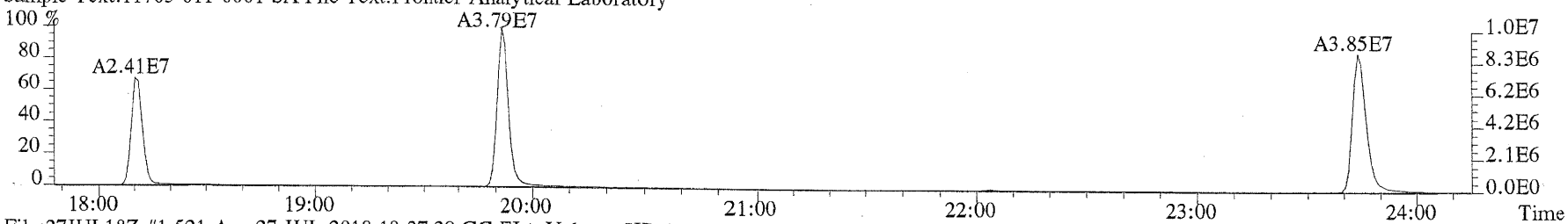
File:27JUL18Z #1-521 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



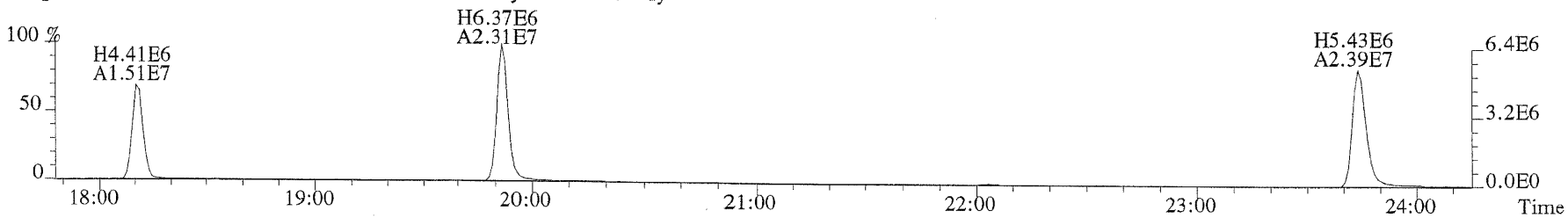
File:27JUL18Z #1-521 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



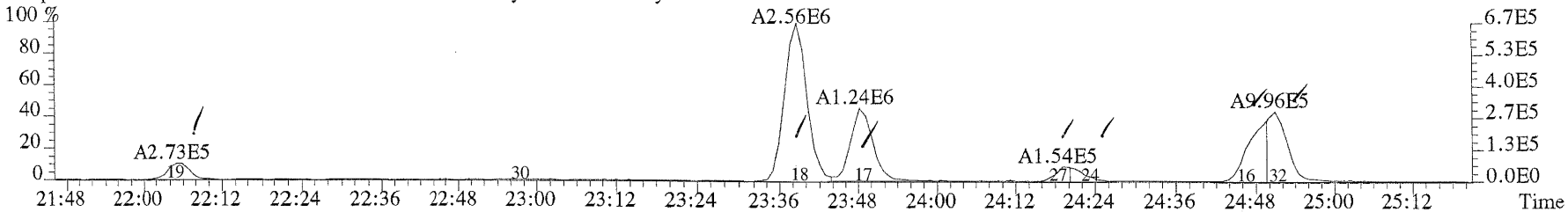
File:27JUL18Z #1-521 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



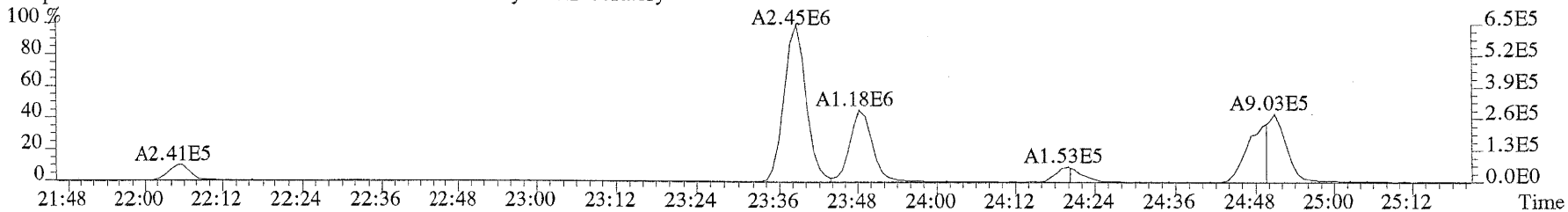
File:27JUL18Z #1-521 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



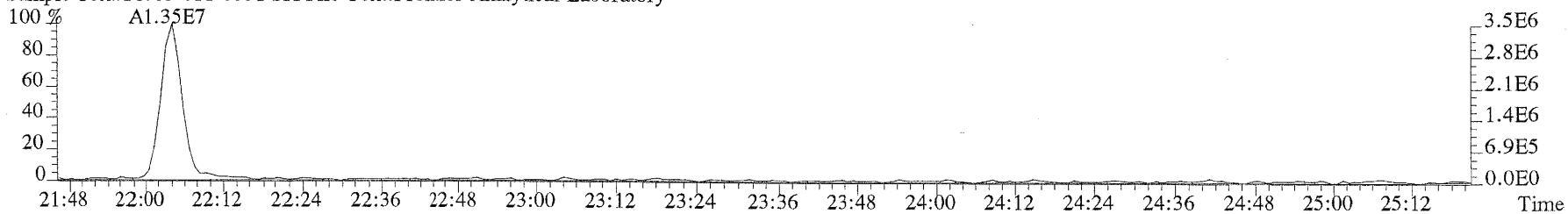
File:27JUL18Z #1-521 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



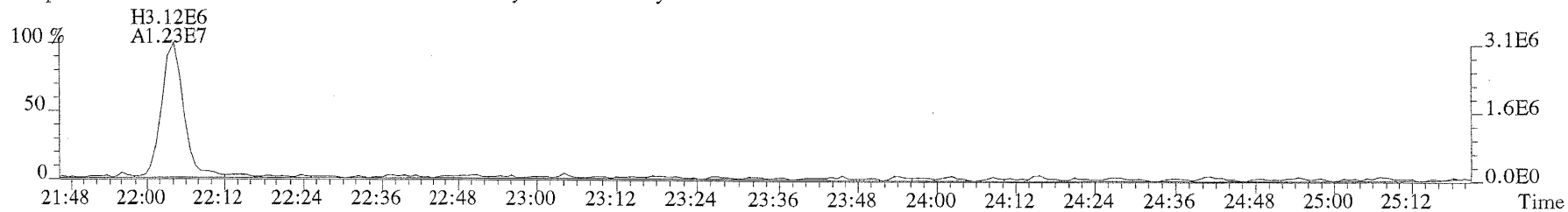
File:27JUL18Z #1-521 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



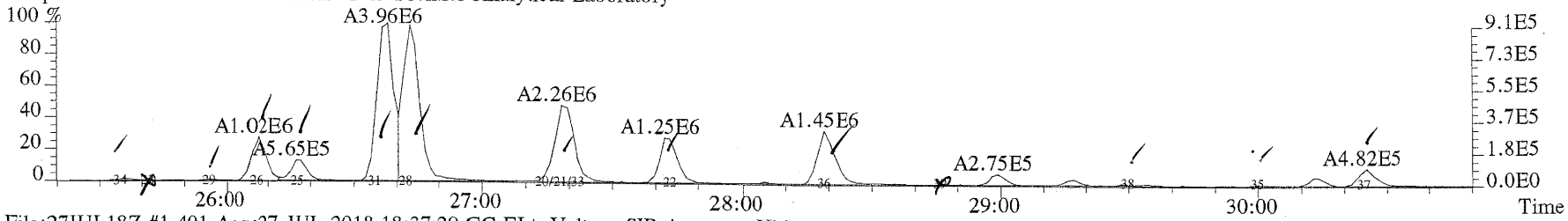
File:27JUL18Z #1-521 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



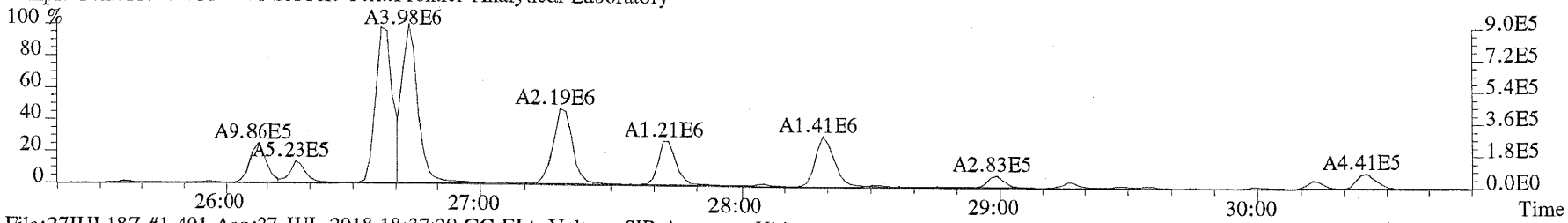
File:27JUL18Z #1-521 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



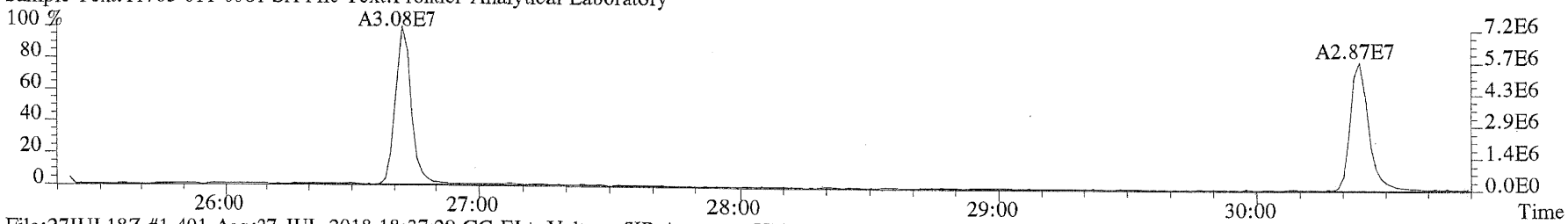
File:27JUL18Z #1-401 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



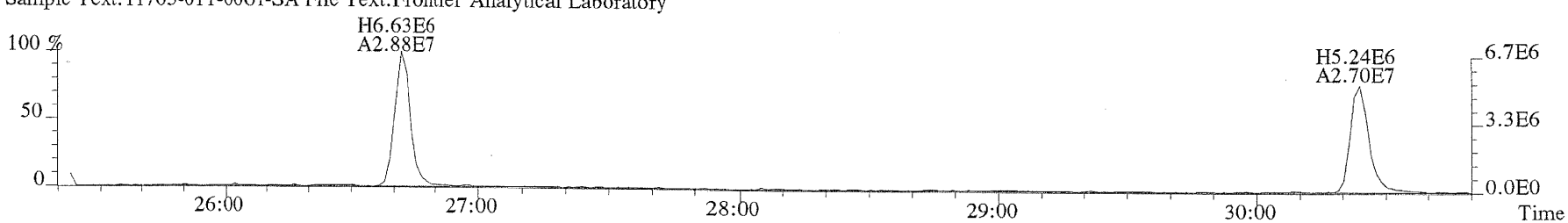
File:27JUL18Z #1-401 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



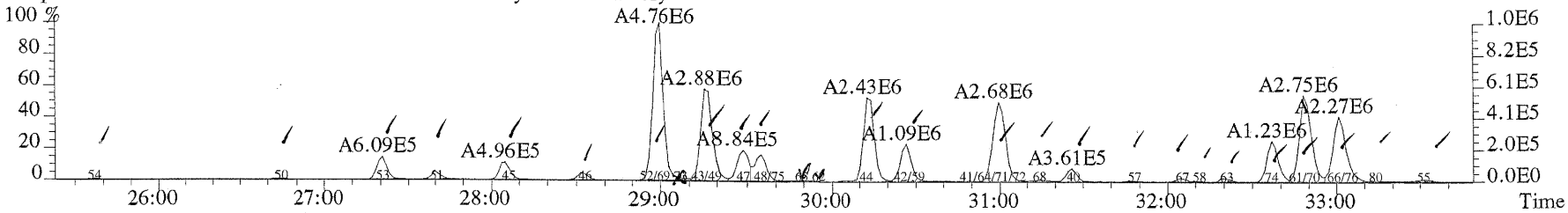
File:27JUL18Z #1-401 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



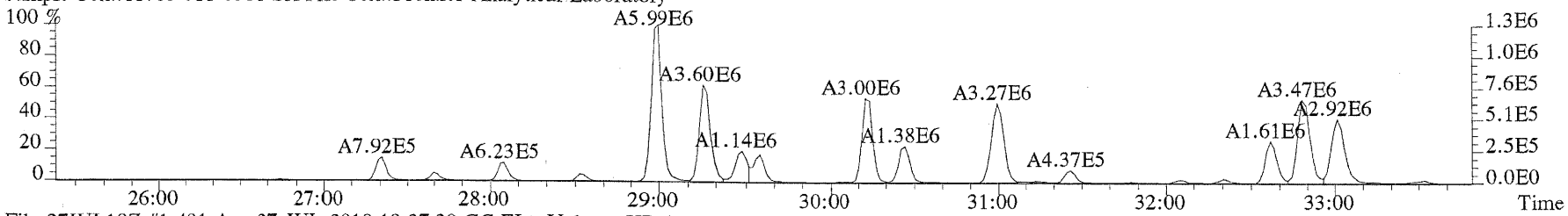
File:27JUL18Z #1-401 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



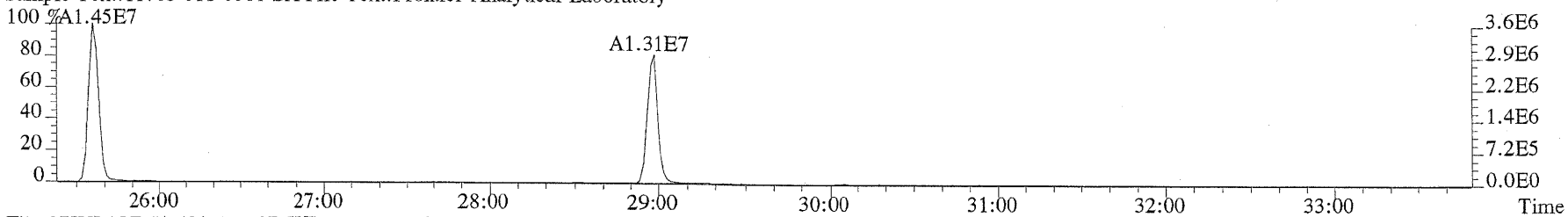
File:27JUL18Z #1-401 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



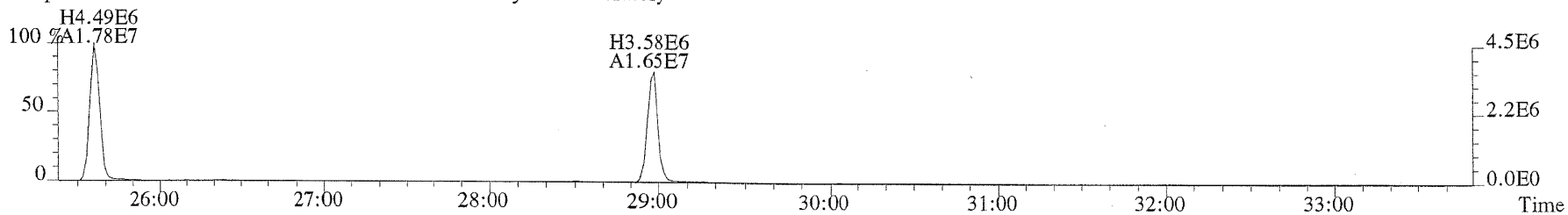
File:27JUL18Z #1-401 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



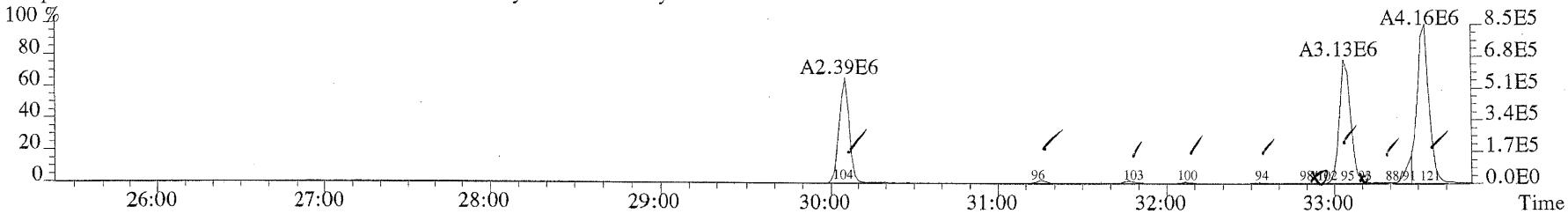
File:27JUL18Z #1-401 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



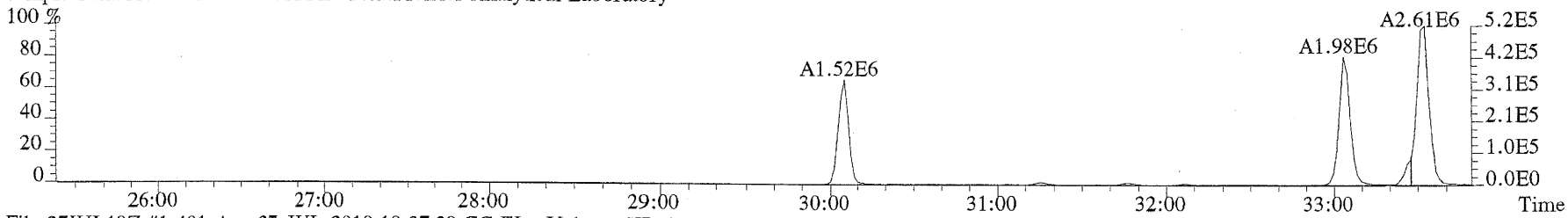
File:27JUL18Z #1-401 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



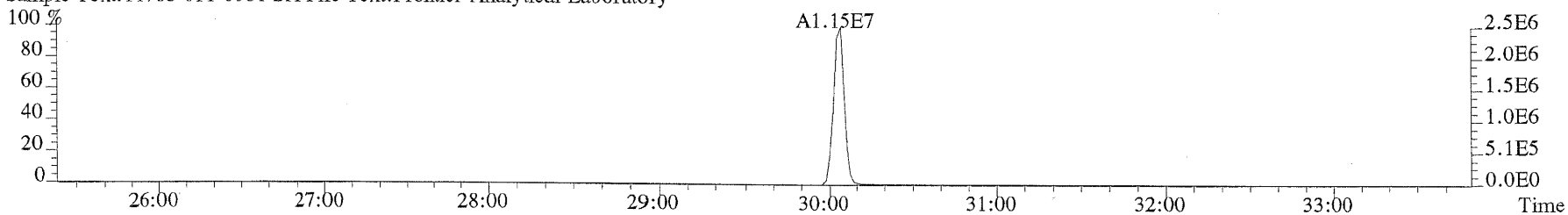
File:27JUL18Z #1-401 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



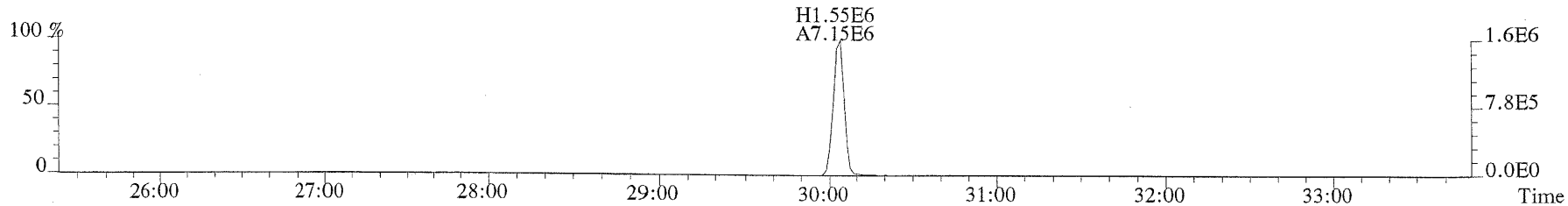
File:27JUL18Z #1-401 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



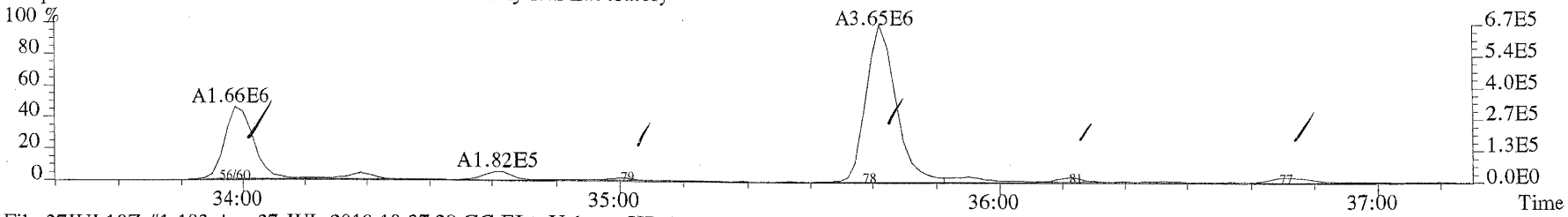
File:27JUL18Z #1-401 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



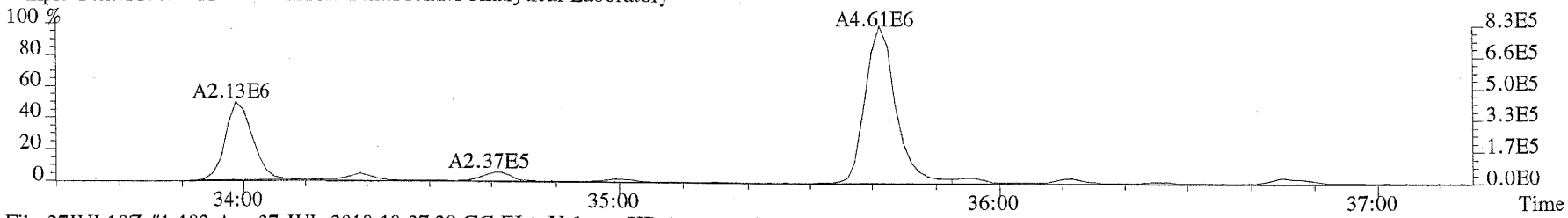
File:27JUL18Z #1-401 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



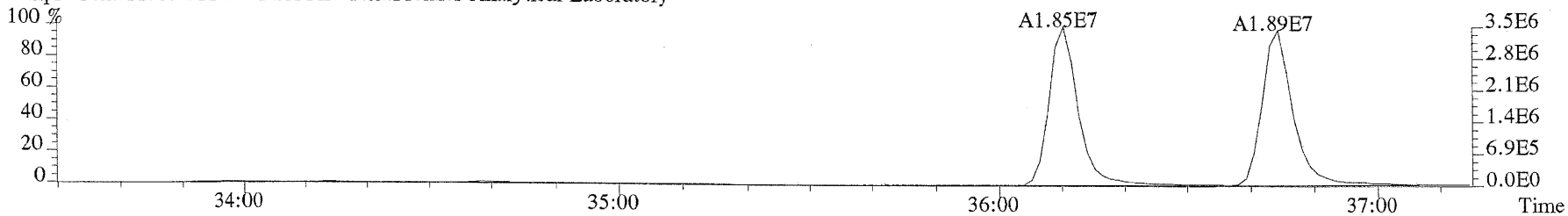
File:27JUL18Z #1-183 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



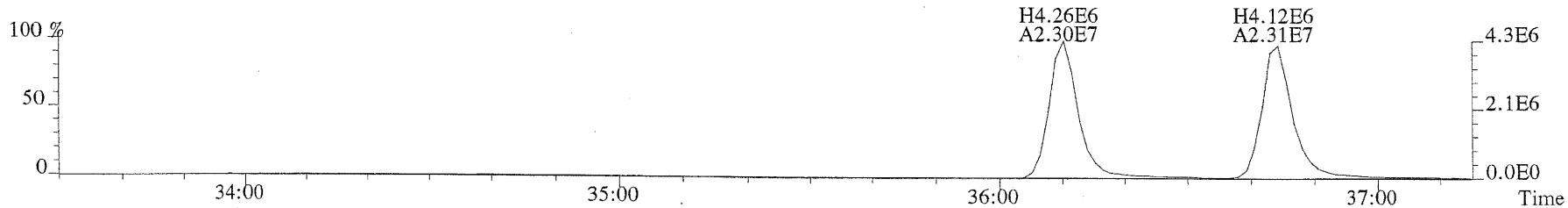
File:27JUL18Z #1-183 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



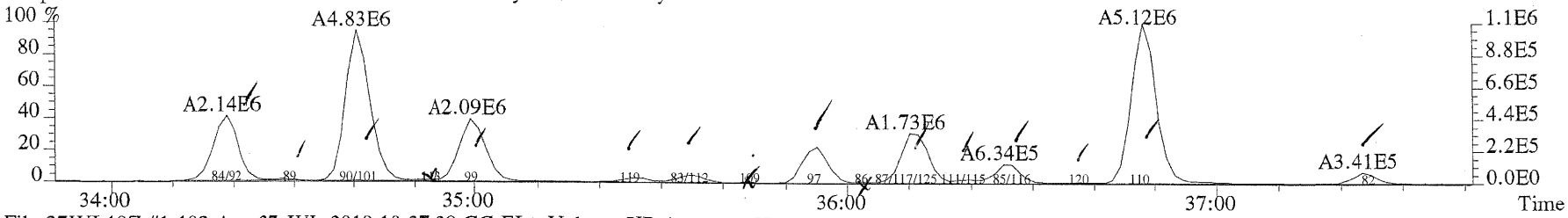
File:27JUL18Z #1-183 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



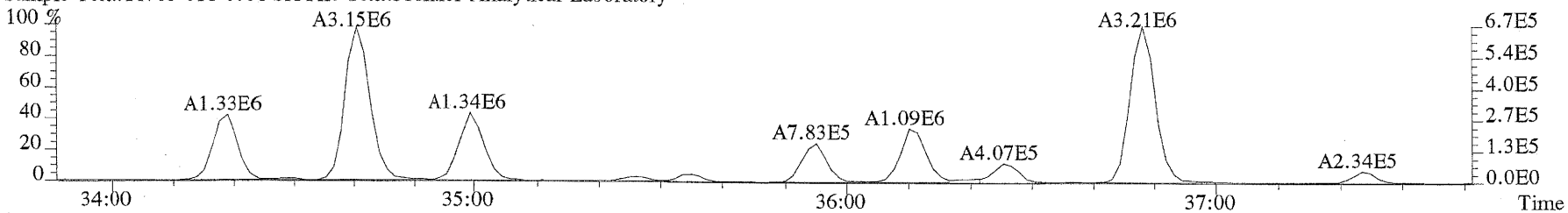
File:27JUL18Z #1-183 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



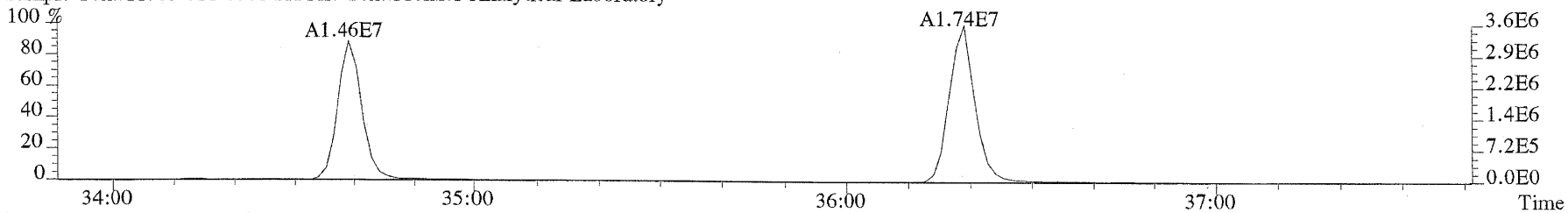
File:27JUL18Z #1-183 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



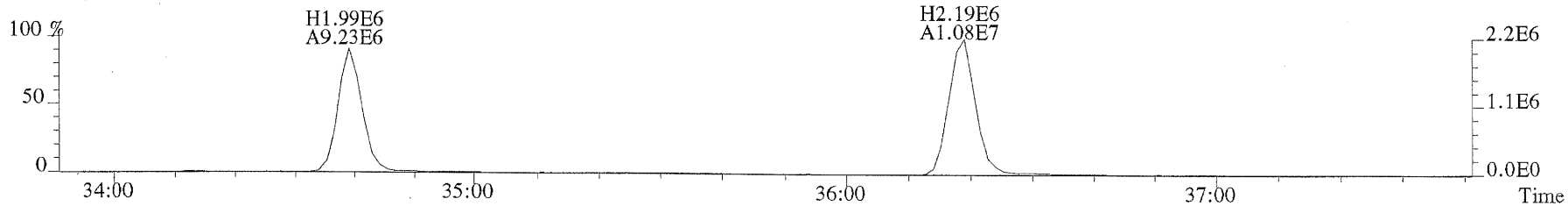
File:27JUL18Z #1-183 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



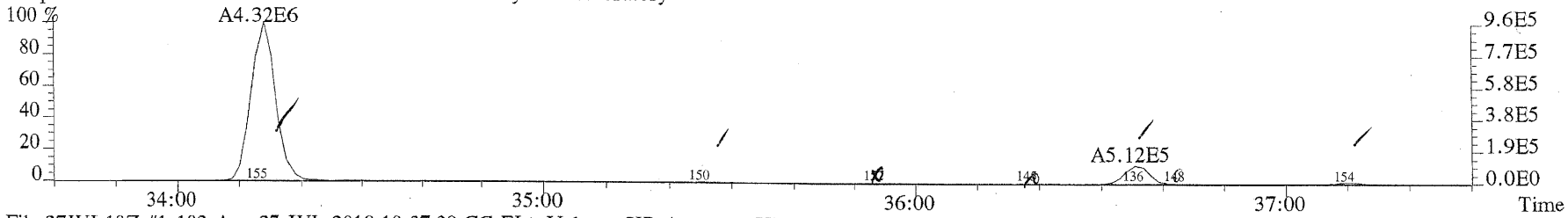
File:27JUL18Z #1-183 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



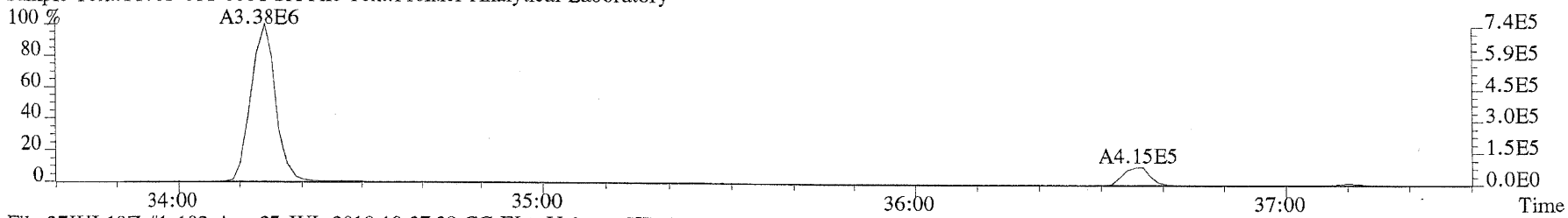
File:27JUL18Z #1-183 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



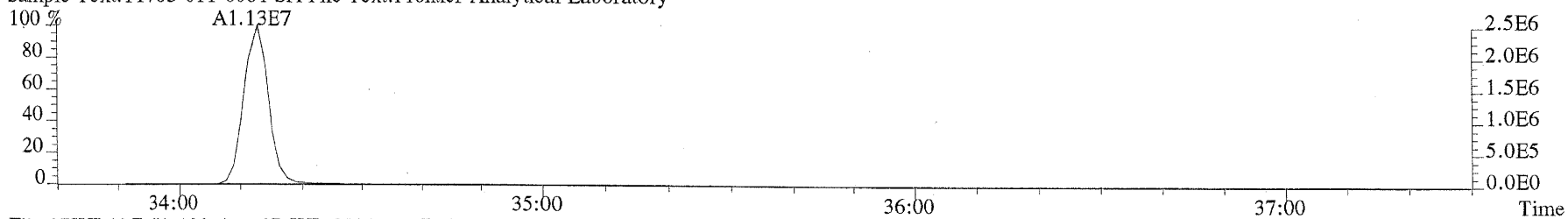
File:27JUL18Z #1-183 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



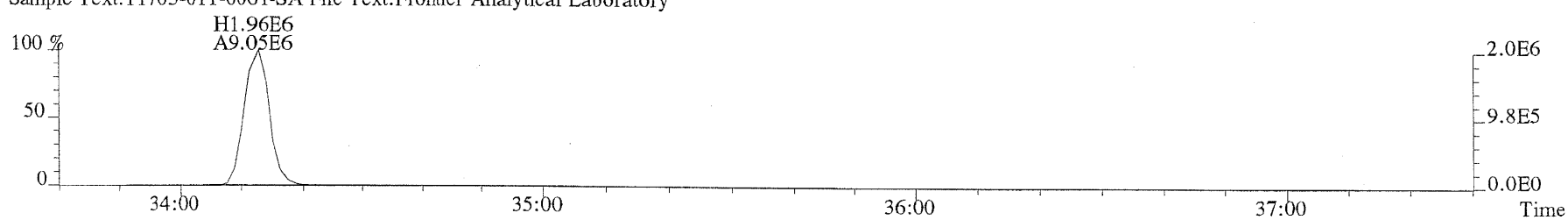
File:27JUL18Z #1-183 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



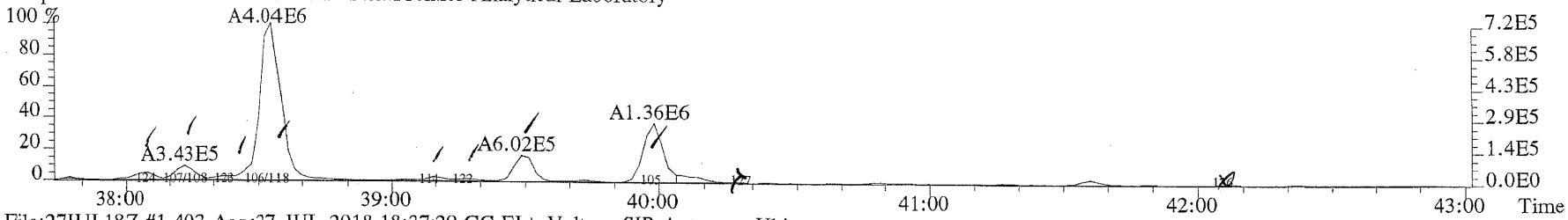
File:27JUL18Z #1-183 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



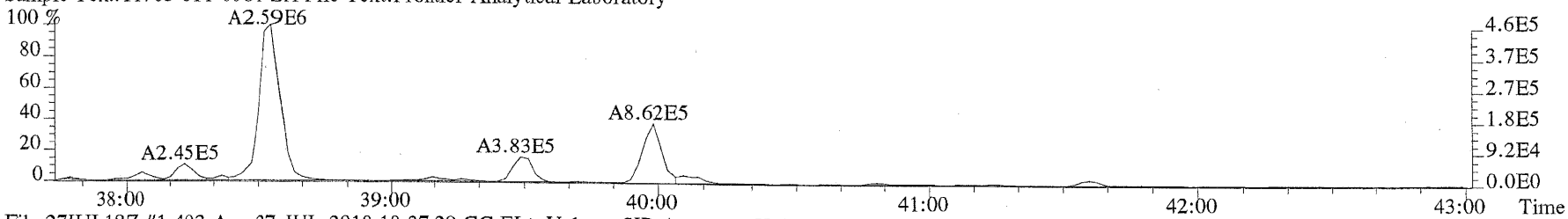
File:27JUL18Z #1-183 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



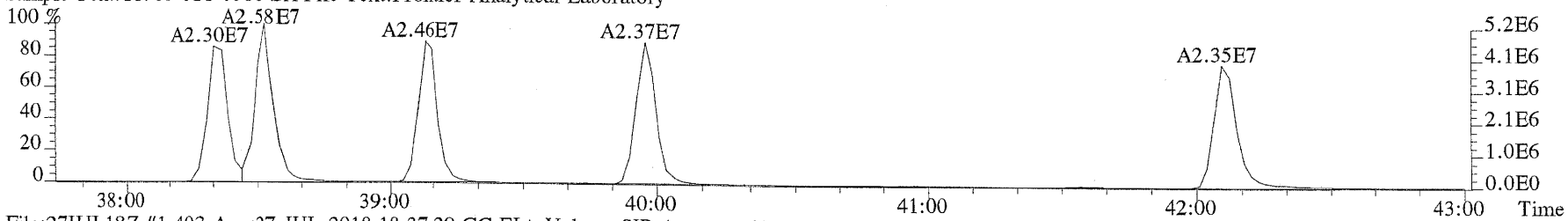
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



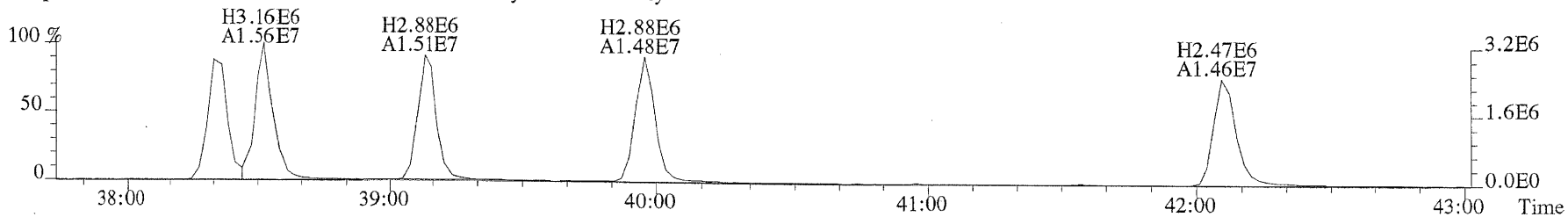
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



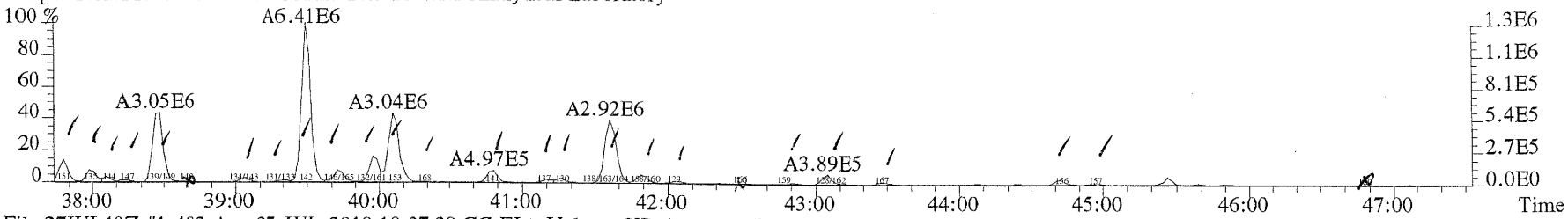
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



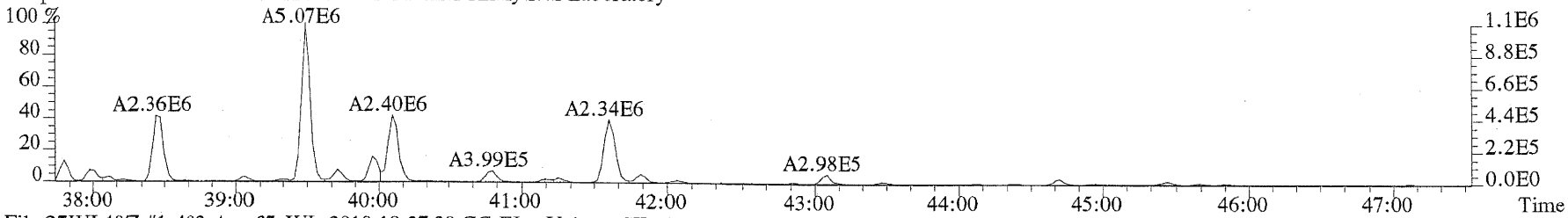
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



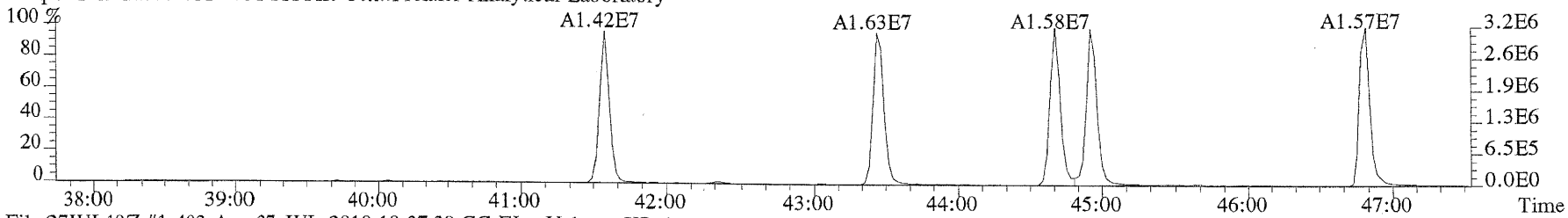
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



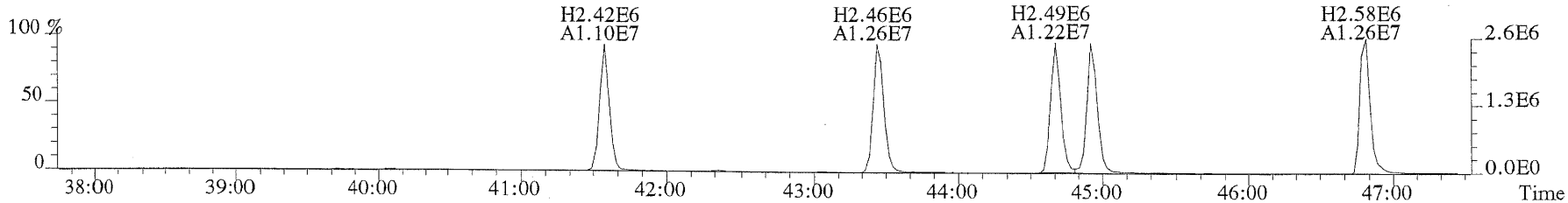
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



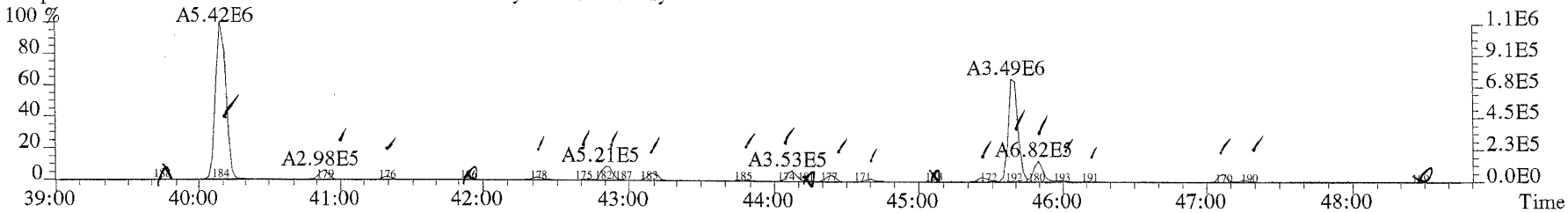
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



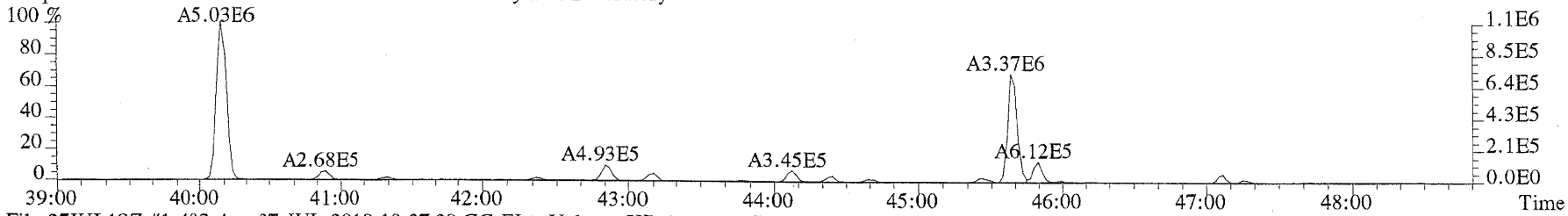
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



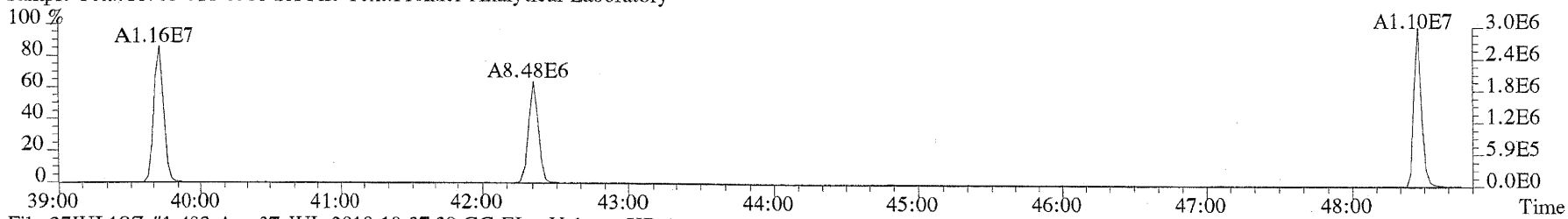
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



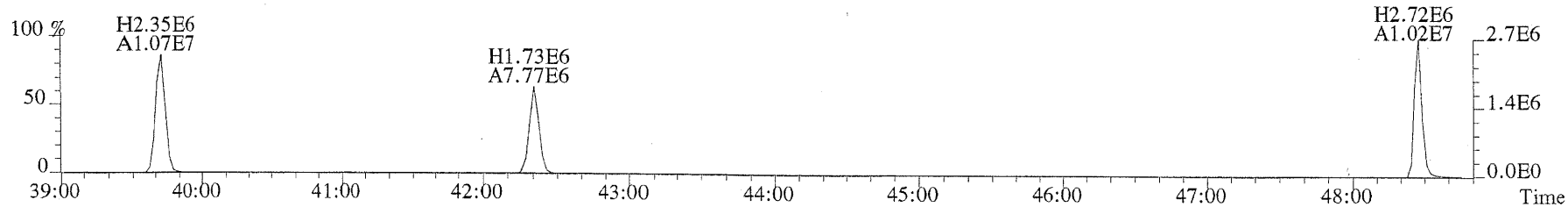
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



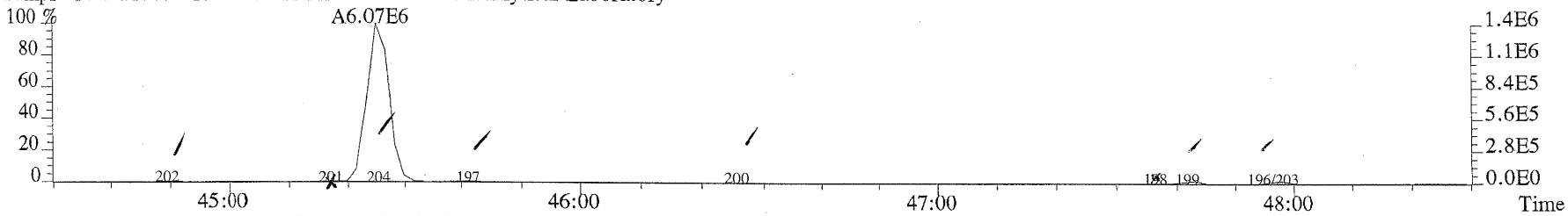
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



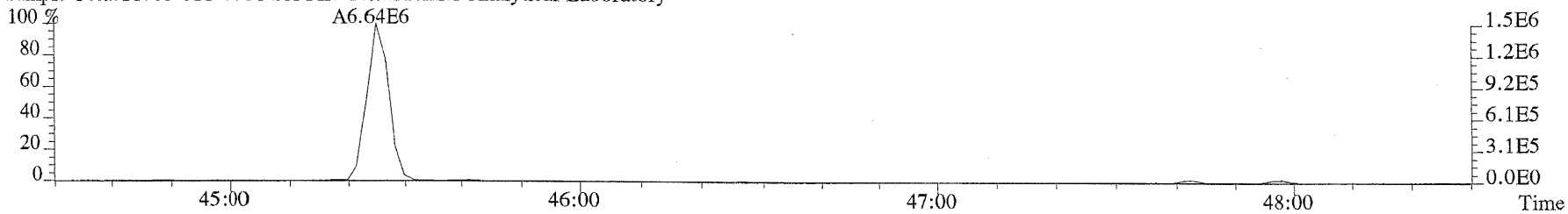
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



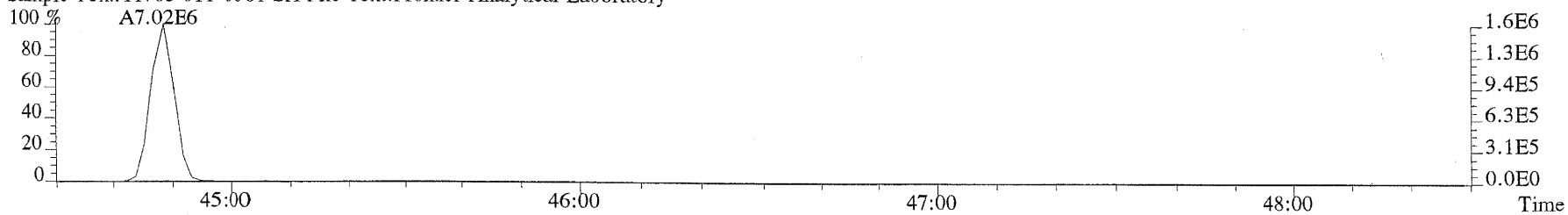
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



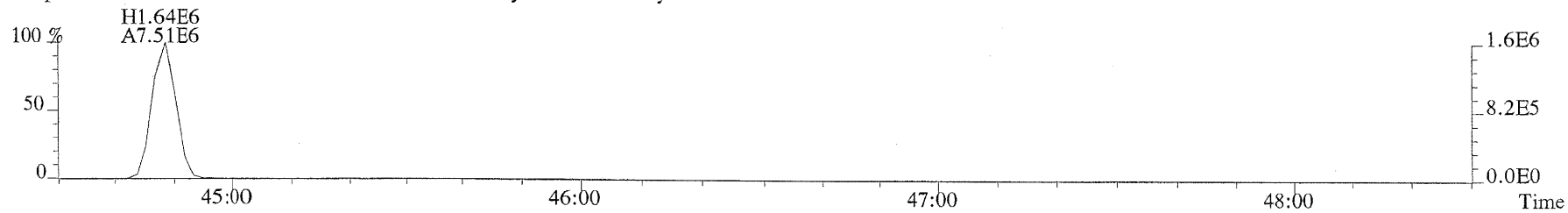
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



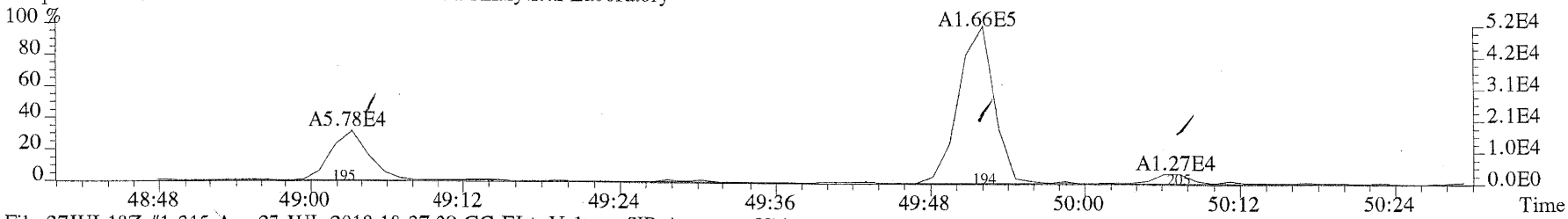
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



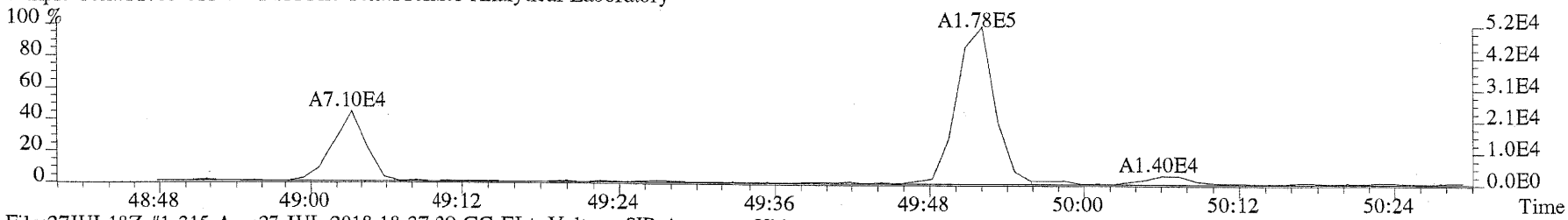
File:27JUL18Z #1-403 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



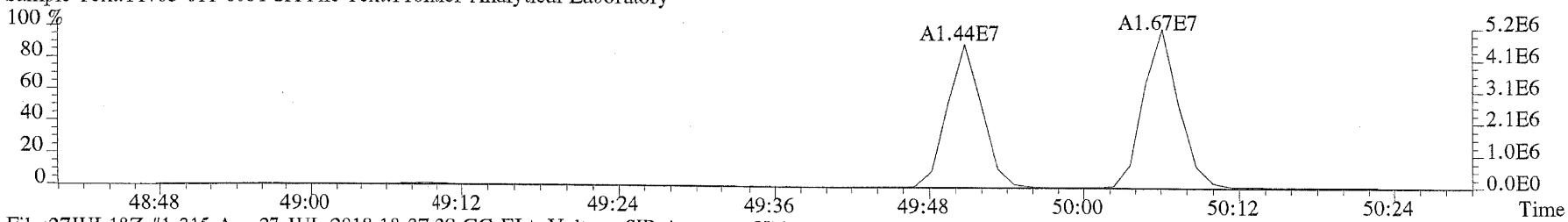
File:27JUL18Z #1-315 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



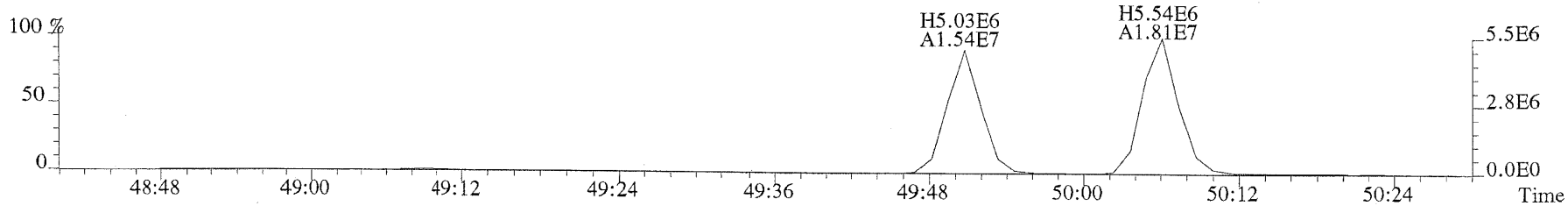
File:27JUL18Z #1-315 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



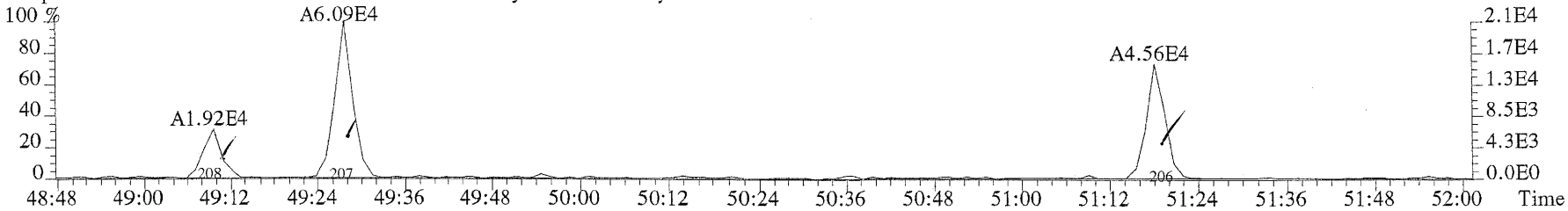
File:27JUL18Z #1-315 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



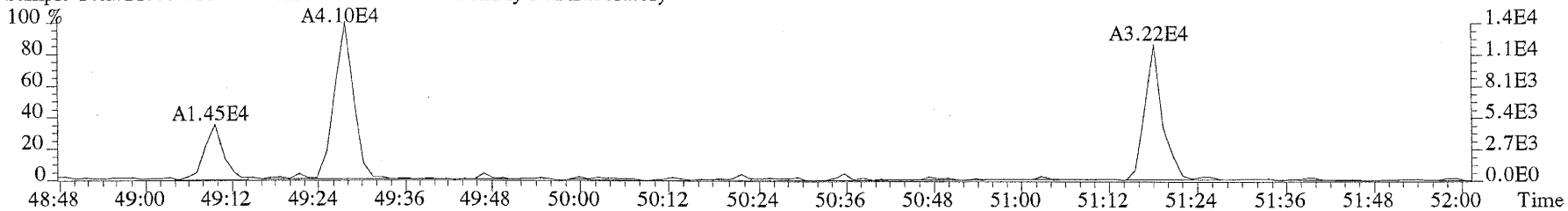
File:27JUL18Z #1-315 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



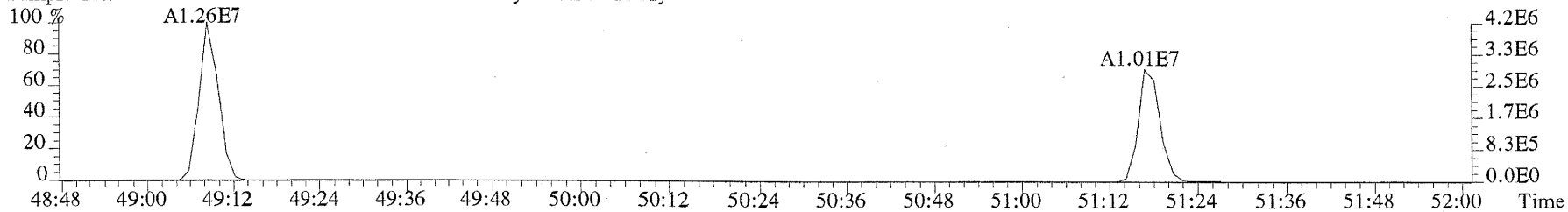
File:27JUL18Z #1-315 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



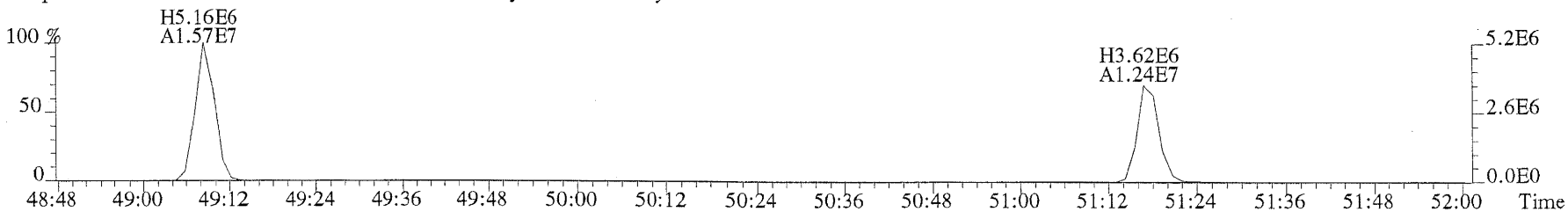
File:27JUL18Z #1-315 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



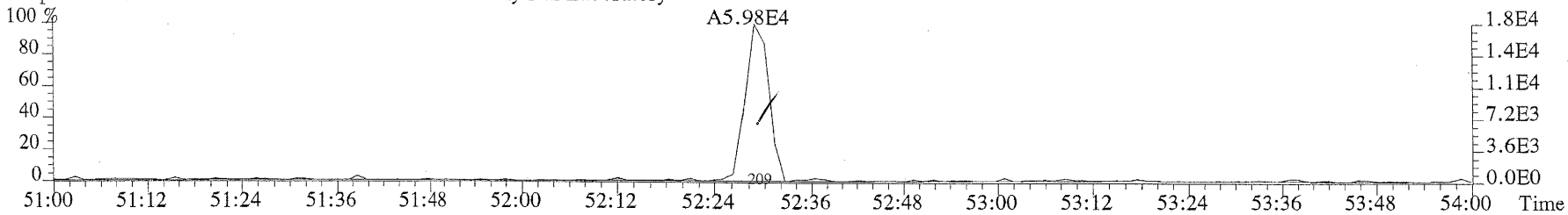
File:27JUL18Z #1-315 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



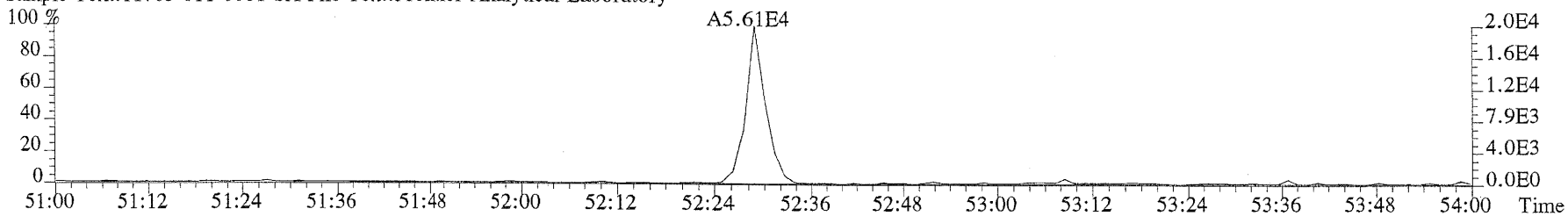
File:27JUL18Z #1-315 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



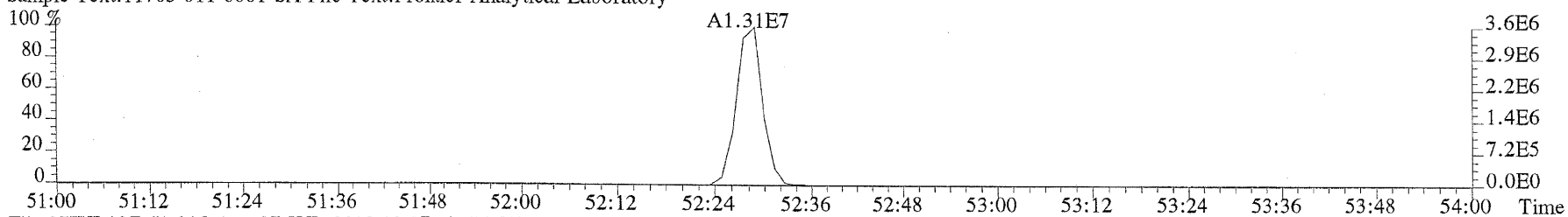
File:27JUL18Z #1-315 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



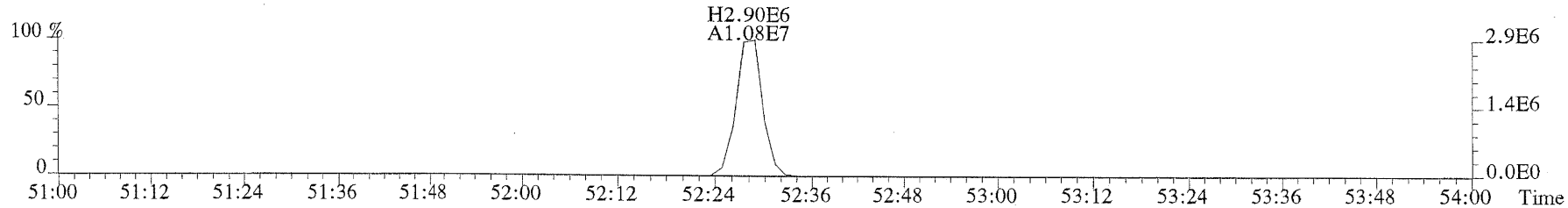
File:27JUL18Z #1-315 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-315 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-315 Acq:27-JUL-2018 18:37:29 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-011-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11703-012-0001-SA Filename: 27JUL18Z Sam:12 Acquired: 27-JUL-18 19:35:50 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SU-ENR+AC-CB-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	* n	NotFnd	1.17	*		1770	1500	3.41			
13C-PCB-1	6.18e+07	3.16 y	14:30	0.92	9160					91.6	1.57e+07	4.88e+06
PCB-2	*	* n	NotFnd	1.05	*		1770	1500	4.08			
PCB-3	*	* n	NotFnd	1.16	*		1770	1500	3.92			
13C-PCB-3	6.18e+07	3.22 y	16:57	0.93	9060					90.6	1.37e+07	4.27e+06
PCB-4	2.99e+05	1.63 y	18:11	1.42	43.9		-	-	*			
PCB-10	7.08e+04	1.43 y	18:15	1.21	9.57	J	-	-	*			
13C-PCB-4	4.81e+07	1.61 y	18:10	0.68	9720					97.2	8.80e+06	5.45e+06
PCB-9	1.08e+05	1.68 y	19:54	1.40	12.6	J	-	-	*			
PCB-7	1.21e+05	1.48 y	19:55	1.40	14.2	J	-	-	*			
PCB-6	4.84e+05	1.45 y	20:31	1.33	59.6		-	-	*			
PCB-8	9.89e+05	1.38 y	20:53	1.35	120		-	-	*			
PCB-5	1.58e+05	1.56 y	20:55	1.35	19.1	J	-	-	*			
PCB-14	2.85e+06	1.53 y	21:57	1.31	357		-	-	*			
PCB-11	3.95e+05	1.58 y	23:04	1.24	52.1		-	-	*			
PCB-13	*	* n	NotFnd	1.32	*		1220	1670	3.49			
PCB-12	*	* n	NotFnd	1.30	*		1220	1670	3.54			
PCB-15	3.23e+05	1.75 y	23:45	1.26	34.6		-	-	*			
13C-PCB-15	7.40e+07	1.64 y	23:44	1.00	10100					101	1.04e+07	6.42e+06
PCB-19	2.96e+05	1.12 y	22:05	1.19	83.6		-	-	*			
PCB-30	*	* n	NotFnd	1.63	*		2220	616	5.49			
PCB-18	2.81e+06	1.09 y	23:38	1.14	830		-	-	*			
PCB-17	1.37e+06	1.03 y	23:48	1.23	373		-	-	*			
PCB-27	1.98e+05	1.06 y	24:19	1.49	44.7		-	-	*			
PCB-24	1.71e+05	1.11 y	24:20	1.69	34.2		-	-	*			
PCB-16	8.29e+05	1.14 y	24:48	1.36	205		-	-	*			
PCB-32	1.19e+06	1.07 y	24:50	1.41	283		-	-	*			
13C-PCB-19	2.97e+07	1.08 y	22:03	0.44	9160					91.6	4.15e+06	3.79e+06
13C-PCB-9	7.31e+07	1.64 y	19:51	-	64.0							
PCB-34	5.50e+04	1.11 y	25:36	1.03	8.23	J	-	-	*			
PCB-23	*	* n	NotFnd	1.10	*		1330	1010	3.98			
PCB-29	4.88e+04	1.14 y	25:55	1.14	6.56	J	-	-	*			
PCB-26	1.32e+06	1.04 y	26:07	1.04	195		-	-	*			
PCB-25	6.78e+05	1.04 y	26:17	1.36	76.6		-	-	*			
PCB-31	5.55e+06	1.04 y	26:43	1.12	763		-	-	*			
PCB-28	5.55e+06	1.04 y	26:43	1.44	593		-	-	*			
PCB-20	2.84e+06	1.05 y	27:19	1.24	353		-	-	*		Co-elute PCB 21/33	
PCB-21	2.84e+06	1.05 y	27:19	1.24	353		-	-	*		Co-elute PCB 20/33	
PCB-33	2.84e+06	1.05 y	27:19	1.24	353		-	-	*		Co-elute PCB 20/21	
PCB-22	1.63e+06	1.11 y	27:43	1.24	201		-	-	*			
PCB-36	5.08e+06	1.07 y	28:19	1.13	693		-	-	*			
PCB-39	*	* n	NotFnd	1.16	*		1330	1010	3.78			
PCB-38	6.08e+04	1.04 y	29:35	1.12	8.36	J	-	-	*			
PCB-35	8.07e+04	1.13 y	30:01	1.08	11.5	J	-	-	*			
PCB-37	6.76e+05	1.05 y	30:26	1.22	85.3		-	-	*			
13C-PCB-37	6.51e+07	1.08 y	30:25	1.72	10900					109	6.97e+06	6.40e+06

PCB-54	3.38e+04	0.84	y	25:36	1.21	7.34	J	-	-	*			
PCB-50	4.39e+04	0.71	y	26:43	0.91	12.7	J	-	-	*			
PCB-53	9.18e+05	0.83	y	27:20	0.93	259		-	-	*			
PCB-51	3.37e+05	0.80	y	27:40	0.95	93.2		-	-	*			
PCB-45	7.76e+05	0.80	y	28:04	0.79	258		-	-	*			
PCB-46	3.01e+05	0.75	y	28:32	0.78	102		-	-	*			
PCB-52	7.08e+06	0.79	y	28:59	1.13	1630		-	-	*	Co-elute PCB 69		
PCB-69	7.08e+06	0.79	y	28:59	1.13	1630		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.11	*		840	1040	4.59			
PCB-43	4.36e+06	0.82	y	29:16	0.88	1300		-	-	*	Co-elute PCB 49		
PCB-49	4.36e+06	0.82	y	29:16	0.88	1300		-	-	*	Co-elute PCB 43		
PCB-47	1.52e+06	0.79	y	29:28	1.04	383		-	-	*			
PCB-48	1.30e+06	0.79	y	29:34	1.14	298		-	-	*	Co-elute PCB 75		
PCB-75	1.30e+06	0.79	y	29:34	1.14	298		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.15	*		840	1040	4.43			
PCB-62	*	*	n	NotFnd	1.10	*		840	1040	4.65			
PCB-44	3.72e+06	0.78	y	30:13	0.80	1210		-	-	*			
PCB-42	1.77e+06	0.82	y	30:27	1.07	433		-	-	*	Co-elute PCB 59		
PCB-59	1.77e+06	0.82	y	30:27	1.07	433		-	-	*	Co-elute PCB 42		
PCB-72	4.42e+06	0.79	y	31:00	1.14	1020		-	-	*	Co-elute PCB 41/71/64		
PCB-41	4.42e+06	0.79	y	31:00	1.14	1020		-	-	*	Co-elute PCB 72/71/64		
PCB-71	4.42e+06	0.79	y	31:00	1.14	1020		-	-	*	Co-elute PCB 72/41/64		
PCB-64	4.42e+06	0.79	y	31:00	1.14	1020		-	-	*	Co-elute PCB 72/41/71		
PCB-68	1.21e+05	0.72	y	31:14	1.22	25.9		-	-	*			
PCB-40	6.09e+05	0.82	y	31:25	0.70	228		-	-	*			
PCB-57	4.37e+04	0.79	y	31:47	1.10	10.4	J	-	-	*			
PCB-67	*	*	n	NotFnd	1.18	*		840	1040	4.31			
PCB-58	2.74e+04	0.77	y	32:11	1.07	6.68	J	-	-	*			
PCB-63	2.13e+05	0.76	y	32:20	1.12	49.6		-	-	*			
PCB-74	2.04e+06	0.81	y	32:37	1.25	426		-	-	*			
PCB-61	4.50e+06	0.78	y	32:49	1.19	993		-	-	*	Co-elute PCB 70		
PCB-70	4.50e+06	0.78	y	32:49	1.19	993		-	-	*	Co-elute PCB 61		
PCB-76	3.78e+06	0.81	y	33:01	1.18	841		-	-	*	Co-elute PCB 66		
PCB-66	3.78e+06	0.81	y	33:01	1.18	841		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.28	*		840	1040	3.97			
PCB-55	2.98e+05	0.80	y	33:32	1.17	66.8		-	-	*			
13C-PCB-54	3.82e+07	0.82	y	25:36	1.14	9600					96.0	4.10e+06	5.12e+06
PCB-104	5.48e+06	1.60	y	30:06	1.26	1980		-	-	*			
PCB-96	7.94e+04	1.44	y	31:15	1.11	32.4		-	-	*			
PCB-103	6.88e+04	1.53	y	31:48	0.97	32.3		-	-	*			
PCB-100	5.29e+04	1.67	y	32:07	0.97	24.8		-	-	*			
PCB-94	2.63e+04	1.64	y	32:32	0.82	14.5	J	-	-	*			
PCB-98	*	*	n	NotFnd	0.44	*		272	376	8.35	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.44	*		272	376	8.35	Co-elute PCB 98		
PCB-95	3.63e+06	1.61	y	33:04	0.89	1860		-	-	*			
PCB-93	*	*	n	NotFnd	0.82	*		272	376	4.55			
PCB-88	4.32e+05	1.54	y	33:27	0.91	217		-	-	*	Co-elute PCB 91		
PCB-91	4.32e+05	1.54	y	33:27	0.91	217		-	-	*	Co-elute PCB 88		
PCB-121	9.55e+06	1.60	y	33:32	1.08	4020		-	-	*			
13C-PCB-104	2.20e+07	1.61	y	30:04	0.64	9910					99.1	2.72e+06	1.66e+06
13C-PCB-28	6.97e+07	1.07	y	26:42	1.96	10200					102	7.69e+06	7.14e+06
13C-PCB-52	3.50e+07	0.80	y	28:57	-	62.7							

PCB-56	2.81e+06	0.78	y	33:59	1.22	461		-	-	*			Co-elute PCB 60
PCB-60	2.81e+06	0.78	y	33:59	1.22	461		-	-	*			Co-elute PCB 56
PCB-79	1.03e+05	0.85	y	35:01	1.22	17.0	J	-	-	*			
PCB-78	1.29e+07	0.81	y	35:42	1.17	2220		-	-	*			
PCB-81	2.60e+05	0.80	y	36:12	1.24	42.6		-	-	*			
13C-PCB-81	4.90e+07	0.82	y	36:09	1.62	10600					106	3.94e+06	4.81e+06
PCB-77	3.19e+05	0.84	y	36:45	1.18	53.8		-	-	*			
13C-PCB-77	5.04e+07	0.81	y	36:44	1.62	10900					109	3.91e+06	4.83e+06
PCB-155	1.06e+07	1.28	y	34:13	1.16	3800		-	-	*			
PCB-150	*	*	n	NotFnd	1.03	*		352	296	3.11			
PCB-152	*	*	n	NotFnd	0.97	*		352	296	3.29			
PCB-145	*	*	n	NotFnd	1.00	*		352	296	3.22			
PCB-136	6.85e+05	1.33	y	36:36	0.89	319		-	-	*			
PCB-148	*	*	n	NotFnd	0.83	*		352	296	3.88			
PCB-154	8.70e+04	1.27	y	37:11	0.88	40.9		-	-	*			
13C-PCB-155	2.42e+07	1.27	y	34:12	0.86	9860					98.6	2.79e+06	2.25e+06
13C-PCB-111	3.43e+07	1.60	y	36:18	1.16	10300					103	4.31e+06	2.69e+06
13C-PCB-101	2.85e+07	1.62	y	34:40	-	64.7							
PCB-84	2.57e+06	1.59	y	34:18	0.65	855		-	-	*			Co-elute PCB 92
PCB-92	2.57e+06	1.59	y	34:18	0.65	855		-	-	*			Co-elute PCB 84
PCB-89	8.90e+04	1.46	y	34:28	0.62	30.7		-	-	*			
PCB-90	5.79e+06	1.55	y	34:41	0.71	1740		-	-	*			Co-elute PCB 101
PCB-101	5.79e+06	1.55	y	34:41	0.71	1740		-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.75	*		777	580	5.10			
PCB-99	2.58e+06	1.62	y	35:00	0.84	657		-	-	*			
PCB-119	1.94e+05	1.58	y	35:25	0.90	46.3		-	-	*			
PCB-83	2.87e+05	1.44	y	35:35	0.70	87.8		-	-	*			Co-elute PCB 112
PCB-112	2.87e+05	1.44	y	35:35	0.70	87.8		-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.85	*		777	580	4.47			
PCB-97	1.48e+06	1.51	y	35:56	0.78	407		-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*		777	580	5.81			
PCB-125	2.15e+06	1.60	y	36:11	0.80	580		-	-	*			Co-elute PCB 87/117
PCB-87	2.15e+06	1.60	y	36:11	0.80	580		-	-	*			Co-elute PCB 125/117
PCB-117	2.15e+06	1.60	y	36:11	0.80	580		-	-	*			Co-elute PCB 125/87
PCB-111	1.10e+05	1.41	y	36:20	0.98	24.2		-	-	*			Co-elute PCB 115
PCB-115	1.10e+05	1.41	y	36:20	0.98	24.2		-	-	*			Co-elute PCB 111
PCB-85	7.91e+05	1.54	y	36:26	0.77	222		-	-	*			Co-elute PCB 116
PCB-116	7.91e+05	1.54	y	36:26	0.77	222		-	-	*			Co-elute PCB 85
PCB-120	3.31e+04	1.61	y	36:35	0.89	7.96	J	-	-	*			
PCB-110	5.92e+06	1.59	y	36:49	0.92	1380		-	-	*			
PCB-82	4.64e+05	1.40	y	37:24	0.51	194		-	-	*			
PCB-124	2.71e+05	1.77	y	38:04	1.11	52.6		-	-	*			
PCB-108	4.25e+05	1.66	y	38:13	1.18	77.7		-	-	*			Co-elute PCB 107
PCB-107	4.25e+05	1.66	y	38:13	1.18	77.7		-	-	*			Co-elute PCB 108
PCB-123	1.00e+05	1.55	y	38:23	1.37	16.8	J	-	-	*			
13C-PCB-123	4.36e+07	1.62	y	38:21	1.46	10100					101	5.61e+06	3.40e+06
PCB-118	4.86e+06	1.57	y	38:32	1.09	901		-	-	*			Co-elute PCB 106
PCB-106	4.86e+06	1.57	y	38:32	1.09	901		-	-	*			Co-elute PCB 118
13C-PCB-118	4.94e+07	1.63	y	38:31	1.59	10500					105	5.57e+06	3.41e+06
PCB-114	1.69e+05	1.48	y	39:10	1.18	30.7		-	-	*			
13C-PCB-114	4.67e+07	1.62	y	39:09	1.51	10500					105	5.67e+06	3.46e+06
PCB-122	8.53e+04	1.75	y	39:17	1.15	16.0	J	-	-	*			
PCB-105	1.74e+06	1.53	y	39:58	1.14	329		-	-	*			
13C-PCB-105	4.62e+07	1.62	y	39:58	1.47	10700					107	5.26e+06	3.21e+06

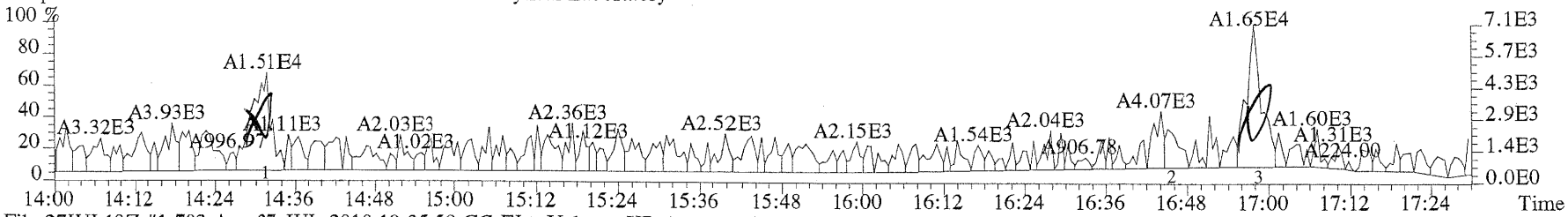
PCB-127	*	*	n	NotFnd	1.02	*		1160	1330	6.90				
PCB-126	*	*	n	NotFnd	1.18	*		1160	1330	7.08				
13C-PCB-126	4.30e+07	1.61	y	42:06	1.39	10500					105	4.66e+06	2.81e+06	
PCB-151	1.14e+06	1.26	y	37:48	0.89	386		-	-	*				
PCB-135	6.54e+05	1.27	y	38:00	0.90	217		-	-	*				
PCB-144	2.75e+05	1.37	y	38:06	0.85	97.4		-	-	*				
PCB-147	1.05e+05	1.31	y	38:13	0.90	35.2		-	-	*				
PCB-139	4.21e+06	1.28	y	38:28	0.95	1330		-	-	*		Co-elute PCB 149		
PCB-149	4.21e+06	1.28	y	38:28	0.95	1330		-	-	*		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.92	*		1040	848	7.90				
PCB-143	2.57e+05	1.22	y	39:04	0.87	88.1		-	-	*		Co-elute PCB 134		
PCB-134	2.57e+05	1.22	y	39:04	0.87	88.1		-	-	*		Co-elute PCB 143		
PCB-131	9.57e+04	1.22	y	39:20	0.89	32.1		-	-	*		Co-elute PCB 133		
PCB-133	9.57e+04	1.22	y	39:20	0.89	32.1		-	-	*		Co-elute PCB 131		
PCB-142	1.54e+07	1.27	y	39:30	0.77	6020		-	-	*				
PCB-165	7.65e+05	1.23	y	39:43	1.04	221		-	-	*		Co-elute PCB 146		
PCB-146	7.65e+05	1.23	y	39:43	1.04	221		-	-	*		Co-elute PCB 165		
PCB-161	1.50e+06	1.27	y	39:58	0.97	463		-	-	*		Co-elute PCB 132		
PCB-132	1.50e+06	1.27	y	39:58	0.97	463		-	-	*		Co-elute PCB 161		
PCB-153	4.49e+06	1.28	y	40:06	1.01	1340		-	-	*				
PCB-168	*	*	n	NotFnd	1.12	*		1040	848	6.50				
PCB-141	7.22e+05	1.12	y	40:47	0.88	246		-	-	*				
PCB-137	1.50e+05	1.29	y	41:11	0.83	54.4		-	-	*				
PCB-130	2.31e+05	1.26	y	41:15	0.78	88.7		-	-	*				
PCB-138	4.29e+06	1.27	y	41:37	1.14	1120		-	-	*		Co-elute PCB 163/164		
PCB-163	4.29e+06	1.27	y	41:37	1.14	1120		-	-	*		Co-elute PCB 138/164		
PCB-164	4.29e+06	1.27	y	41:37	1.14	1120		-	-	*		Co-elute PCB 138/163		
PCB-158	5.21e+05	1.27	y	41:50	1.14	137		-	-	*		Co-elute PCB 160		
PCB-160	5.21e+05	1.27	y	41:50	1.14	137		-	-	*		Co-elute PCB 158		
PCB-129	1.48e+05	1.40	y	42:03	0.73	60.6		-	-	*				
PCB-166	*	*	n	NotFnd	1.07	*		1040	848	6.81				
PCB-159	5.70e+04	1.15	y	42:51	1.17	14.7	J	-	-	*				
PCB-128	5.49e+05	1.27	y	43:04	0.97	170		-	-	*		Co-elute PCB 162		
PCB-162	5.49e+05	1.27	y	43:04	0.97	170		-	-	*		Co-elute PCB 128		
PCB-167	1.50e+05	1.29	y	43:27	1.05	42.7		-	-	*				
13C-PCB-167	3.36e+07	1.26	y	43:27	1.15	9890					98.9	3.71e+06	2.91e+06	
PCB-156	3.04e+05	1.34	y	44:41	1.09	86.4		-	-	*				
13C-PCB-156	3.24e+07	1.28	y	44:41	1.12	9770					97.7	3.45e+06	2.67e+06	
PCB-157	6.37e+04	1.16	y	44:56	1.13	16.6	J	-	-	*				
13C-PCB-157	3.41e+07	1.31	y	44:56	1.15	10000					100	3.46e+06	2.72e+06	
PCB-169	*	*	n	NotFnd	1.06	*		1040	848	6.31				
13C-PCB-169	3.33e+07	1.29	y	46:48	1.08	10400					104	3.98e+06	3.12e+06	

FAL ID: 11703-012-0001-SA Filename: 27JUL18Z Sam:12 Acquired: 27-JUL-18 19:35:50 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SU-ENR+AC-CB-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

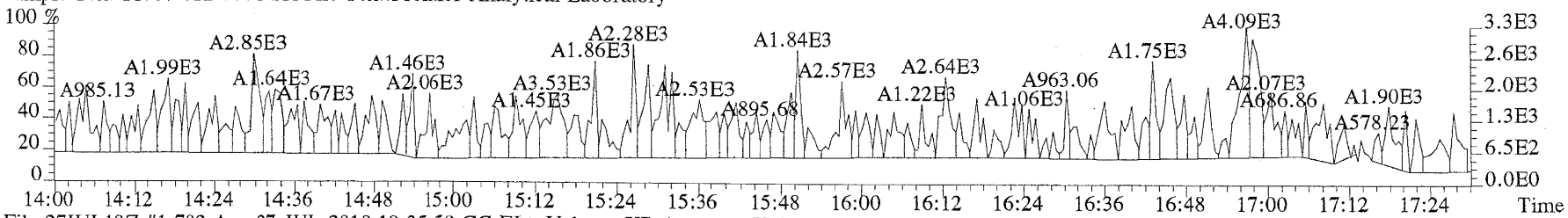
PCB-188	*	*	n	NotFnd	1.17	*		556	488	3.91			
13C-PCB-188	2.69e+07	1.09	y	39:42	0.93	9830					98.3	3.02e+06	2.69e+06
PCB-184	1.40e+07	1.05	y	40:10	1.22	4440		-	-	*			
PCB-179	4.94e+05	1.05	y	40:52	1.12	171		-	-	*			
PCB-176	1.38e+05	1.04	y	41:19	1.09	48.7		-	-	*			
PCB-186	*	*	n	NotFnd	1.14	*		556	488	3.75			
PCB-178	1.43e+05	1.00	y	42:23	0.80	69.4		-	-	*			
PCB-175	2.46e+04	0.94	y	42:43	0.85	11.3	J	-	-	*			
PCB-187	8.56e+05	1.03	y	42:51	0.95	347		-	-	*		Co-elute PCB 182	
PCB-182	8.56e+05	1.03	y	42:51	0.95	347		-	-	*		Co-elute PCB 187	
PCB-183	4.07e+05	1.02	y	43:09	0.91	174		-	-	*			
PCB-185	7.83e+04	1.13	y	43:47	0.88	34.5		-	-	*			
PCB-174	6.54e+05	1.08	y	44:07	0.81	313		-	-	*			
PCB-181	*	*	n	NotFnd	0.92	*		556	488	4.62			
PCB-177	3.43e+05	1.12	y	44:23	0.79	168		-	-	*			
PCB-171	1.45e+05	1.06	y	44:40	0.83	67.8		-	-	*			
PCB-173	*	*	n	NotFnd	0.78	*		556	488	5.45			
PCB-172	3.53e+05	1.14	y	45:26	0.79	173		-	-	*			
PCB-192	9.04e+06	1.05	y	45:39	1.08	3250		-	-	*			
PCB-180	1.10e+06	1.08	y	45:49	1.04	409		-	-	*			
PCB-193	9.92e+04	1.18	y	45:59	1.12	34.3		-	-	*			
PCB-191	*	*	n	NotFnd	1.05	*		556	488	4.07			
PCB-170	4.11e+05	1.10	y	47:06	0.75	212		-	-	*			
PCB-190	1.14e+05	1.07	y	47:16	1.02	43.5		-	-	*			
PCB-189	*	*	n	NotFnd	1.13	*		556	488	3.46			
13C-PCB-189	2.47e+07	1.07	y	48:27	0.81	10300					103	3.40e+06	3.27e+06
PCB-202	5.12e+04	0.96	y	44:49	1.00	29.8		-	-	*			
PCB-201	*	*	n	NotFnd	0.95	*		252	284	3.86			
PCB-204	1.65e+07	0.91	y	45:26	0.97	9870		-	-	*			
PCB-197	1.04e+05	0.91	y	45:42	1.05	58.0		-	-	*			
PCB-200	3.30e+04	0.85	y	46:27	0.97	19.8	J	-	-	*			
PCB-198	*	*	n	NotFnd	0.70	*		252	284	5.24			
PCB-199	1.57e+05	0.93	y	47:42	0.78	118		-	-	*			
PCB-203	1.71e+05	0.88	y	47:57	0.80	123		-	-	*		Co-elute PCB 196	
PCB-196	1.71e+05	0.88	y	47:57	0.80	123		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.72e+07	0.91	y	44:48	0.60	9670					96.7	1.71e+06	1.96e+06
13C-PCB-178	1.91e+07	1.12	y	42:21	0.67	9700					97.0	2.00e+06	1.79e+06
13C-PCB-138	2.95e+07	1.29	y	41:35	-	68.3							
PCB-195	1.28e+05	0.92	y	49:03	0.78	40.0		-	-	*			
PCB-194	3.34e+05	0.82	y	49:52	0.83	98.2		-	-	*			
PCB-205	2.75e+04	0.88	y	50:06	1.12	6.00	J	-	-	*			
13C-PCB-205	4.11e+07	0.92	y	50:06	1.29	9150					91.5	6.13e+06	6.67e+06
PCB-208	3.63e+04	1.30	y	49:09	1.01	11.0	J	-	-	*			
13C-PCB-208	3.29e+07	0.81	y	49:09	1.11	8550					85.5	4.41e+06	5.34e+06
PCB-207	1.23e+05	1.43	y	49:27	0.98	42.7		-	-	*			
PCB-206	7.77e+04	1.17	y	51:19	1.02	29.6		-	-	*			
13C-PCB-206	2.59e+07	0.80	y	51:18	0.89	8390					83.9	3.58e+06	4.51e+06
PCB-209	1.60e+05	1.29	y	52:28	1.11	50.9		-	-	*			
13C-PCB-209	2.84e+07	1.19	y	52:28	0.97	8420					84.2	4.25e+06	3.56e+06
13C-PCB-194	3.47e+07	0.92	y	49:50	-	78.5							

Analyst: _____ Date: 8/20/18

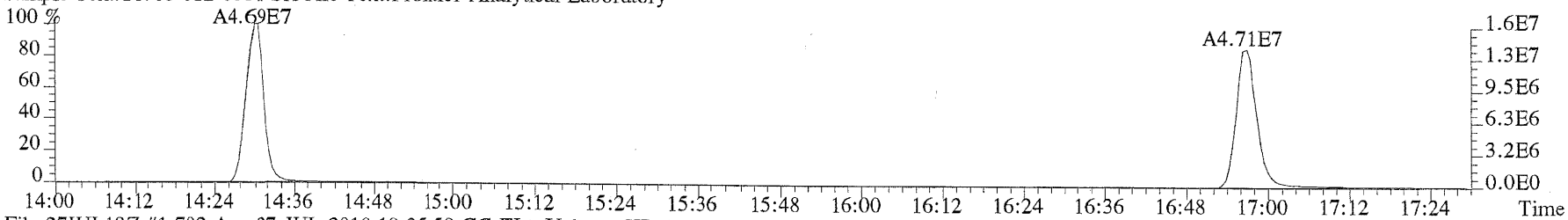
File:27JUL18Z #1-783 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



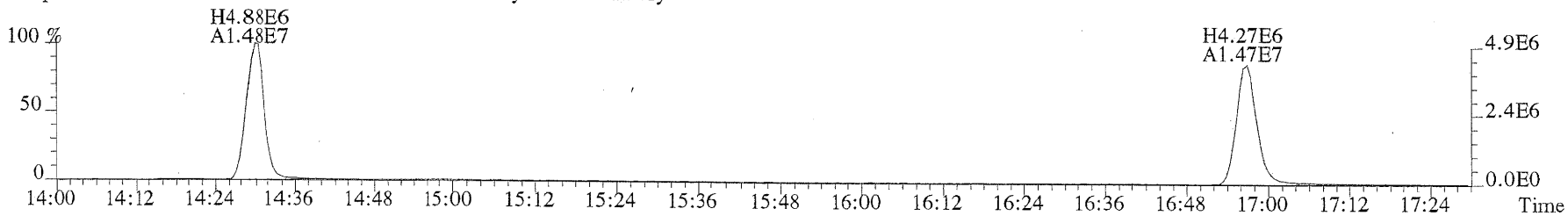
File:27JUL18Z #1-783 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



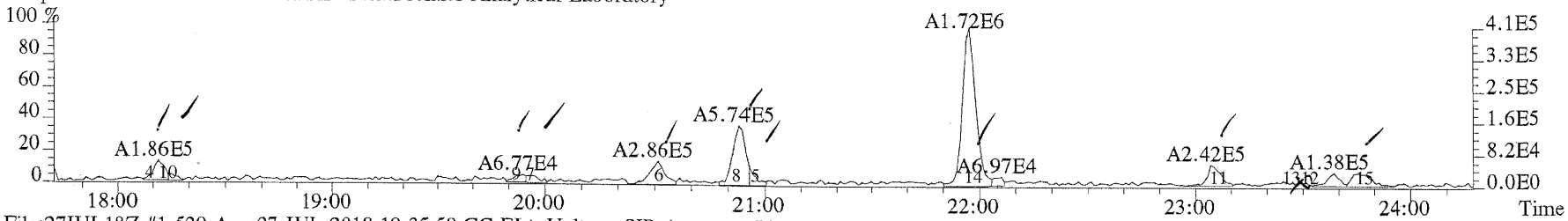
File:27JUL18Z #1-783 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



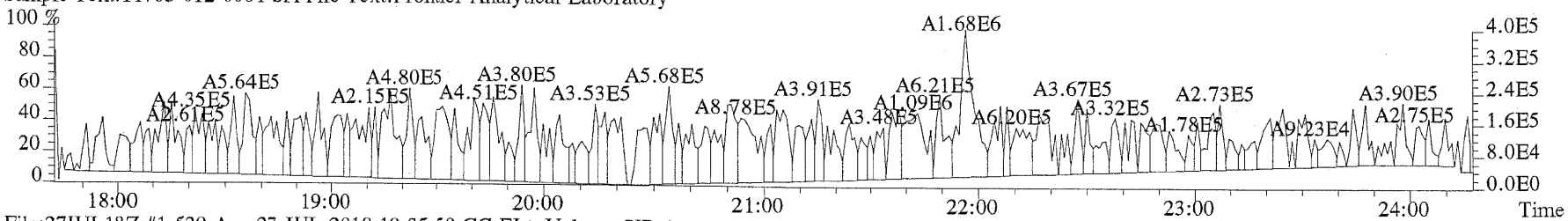
File:27JUL18Z #1-783 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:12 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



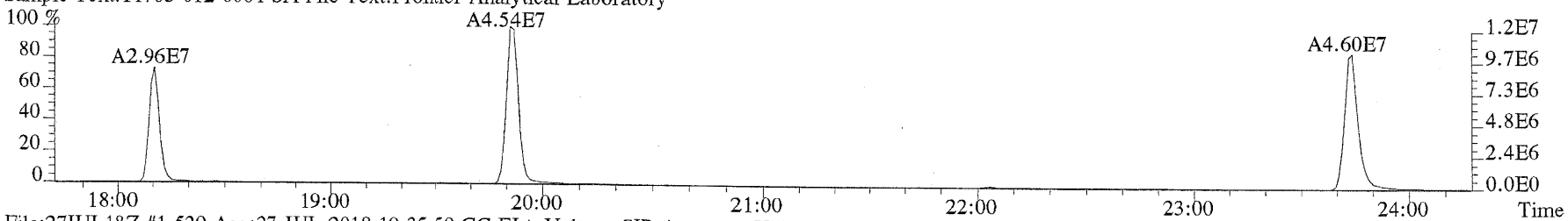
File:27JUL18Z #1-520 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



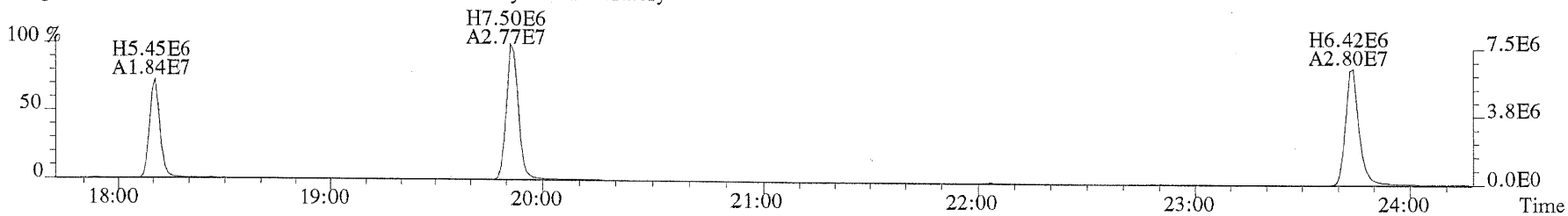
File:27JUL18Z #1-520 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



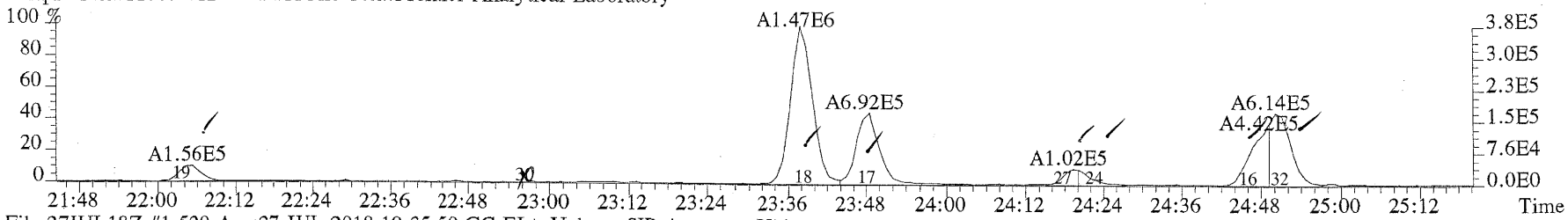
File:27JUL18Z #1-520 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



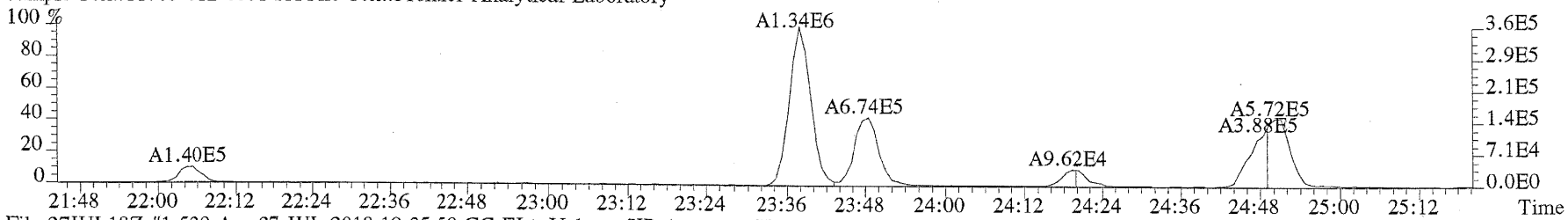
File:27JUL18Z #1-520 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



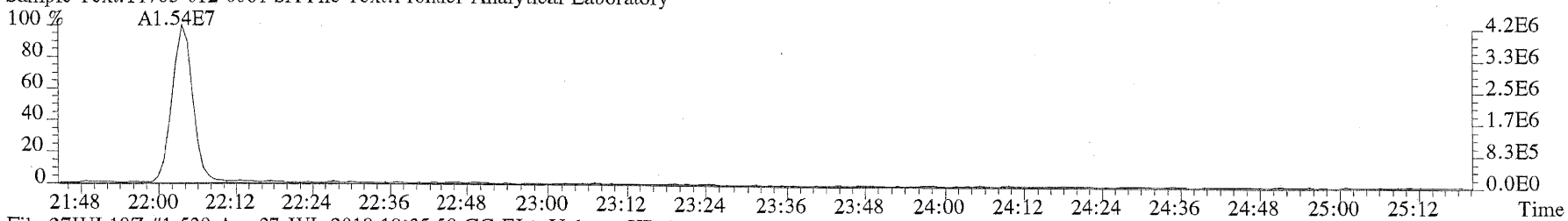
File:27JUL18Z #1-520 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



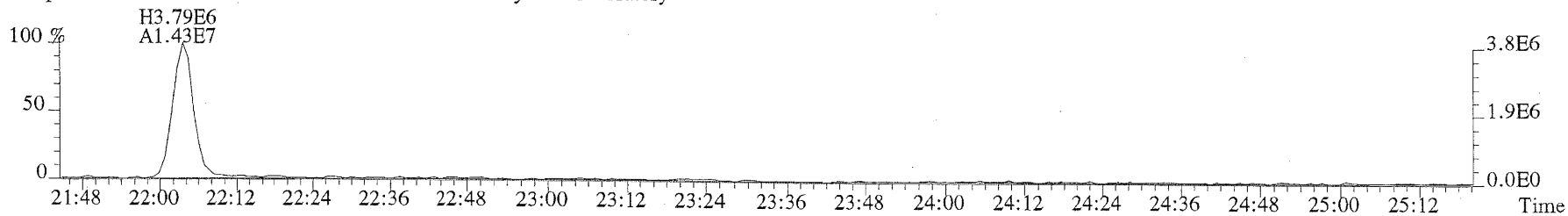
File:27JUL18Z #1-520 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



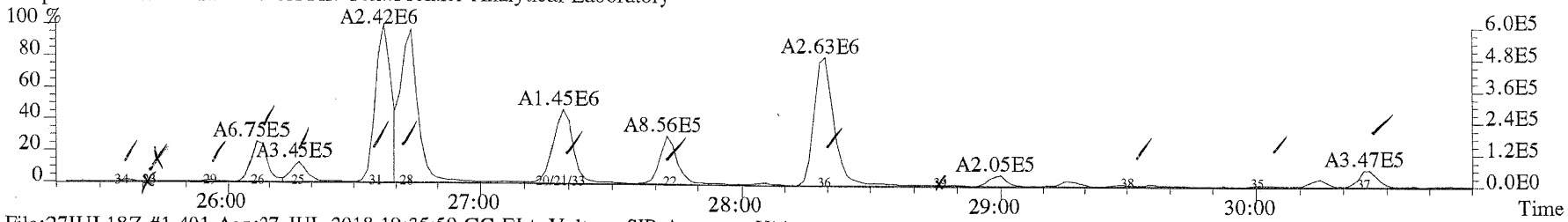
File:27JUL18Z #1-520 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



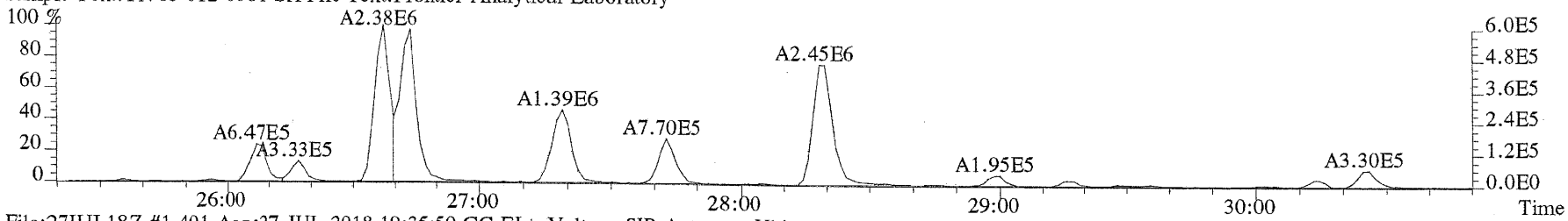
File:27JUL18Z #1-520 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



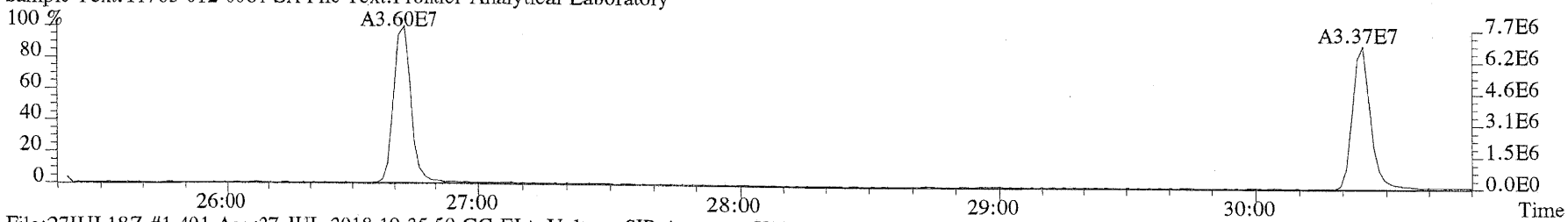
File:27JUL18Z #1-401 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



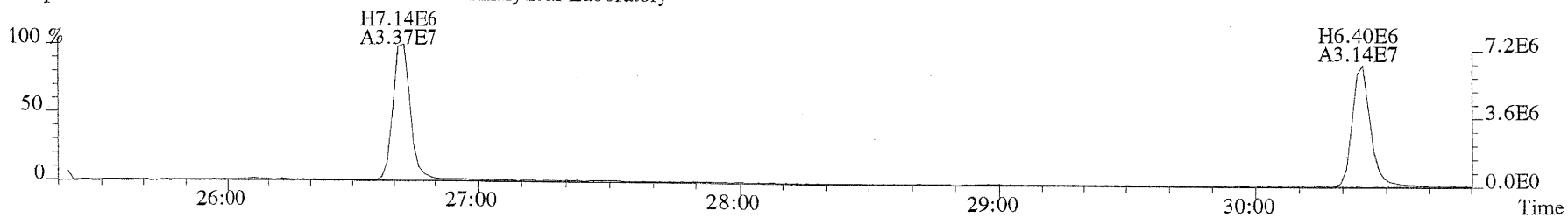
File:27JUL18Z #1-401 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



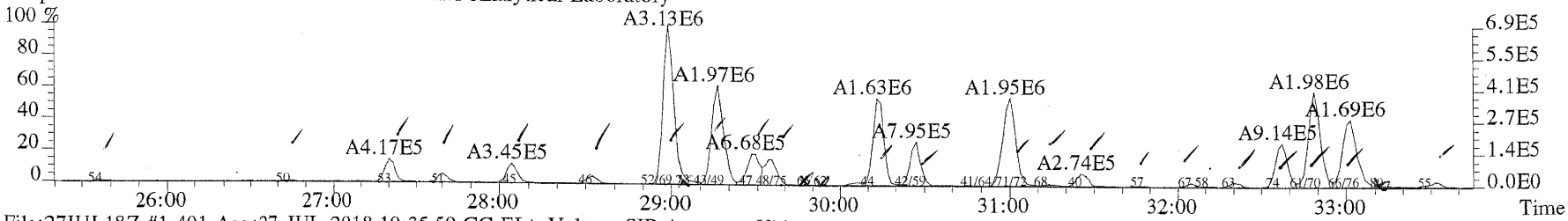
File:27JUL18Z #1-401 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



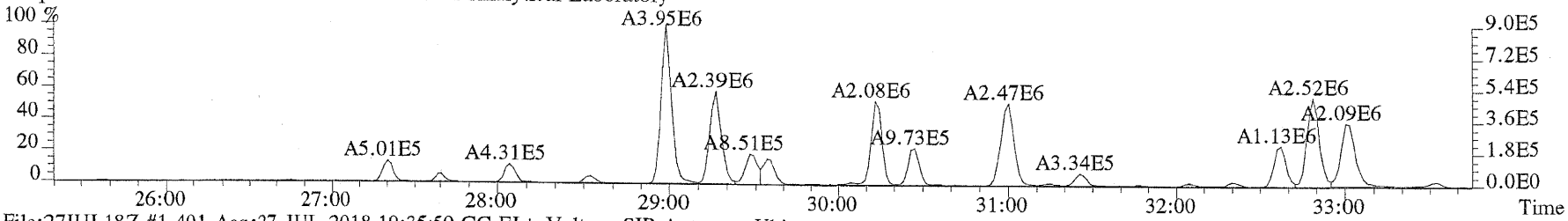
File:27JUL18Z #1-401 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



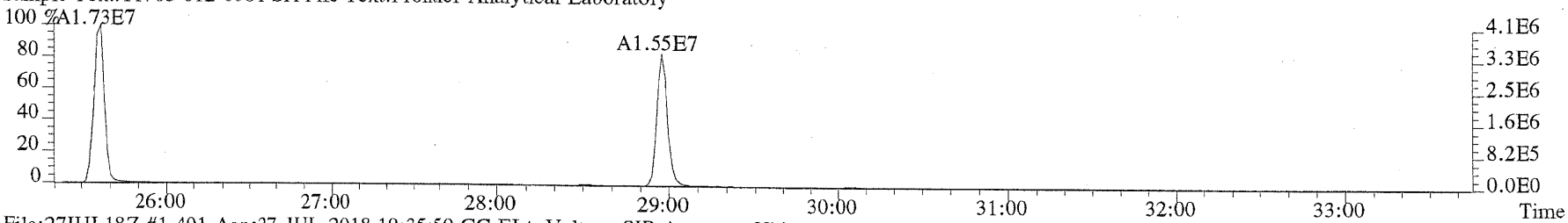
File:27JUL18Z #1-401 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



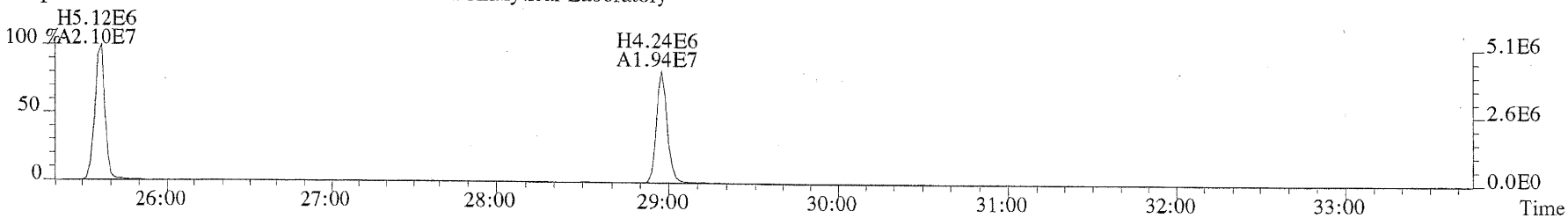
File:27JUL18Z #1-401 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



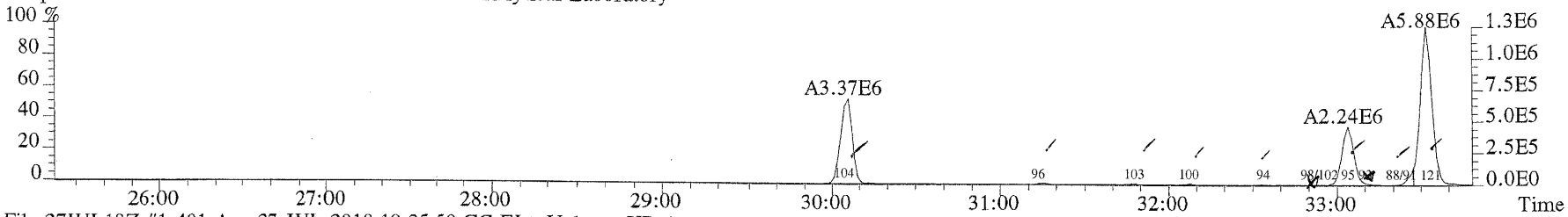
File:27JUL18Z #1-401 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



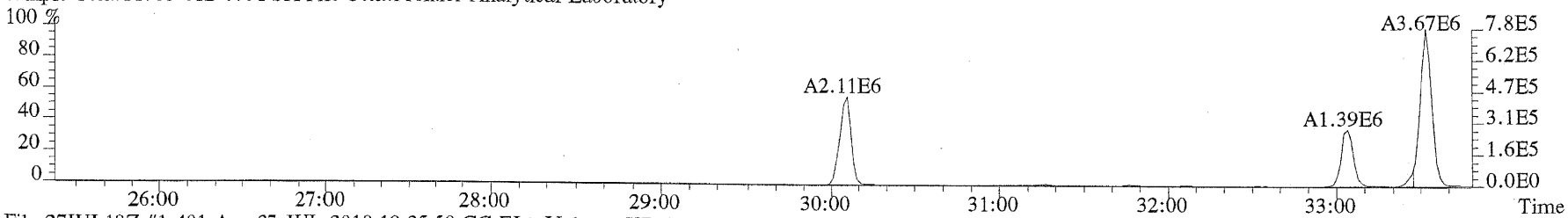
File:27JUL18Z #1-401 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



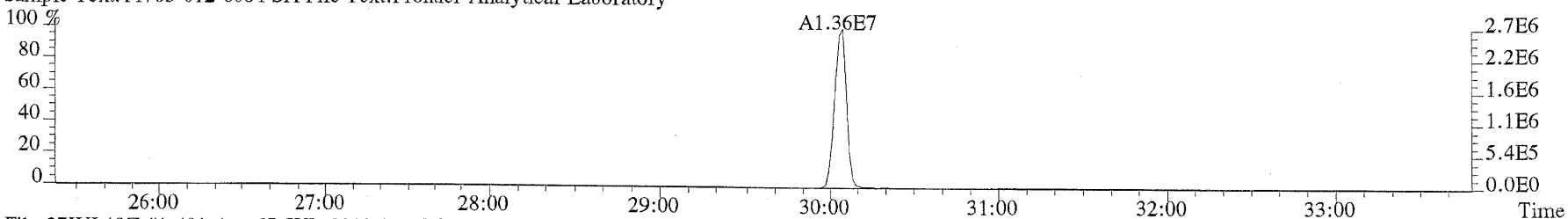
File:27JUL18Z #1-401 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



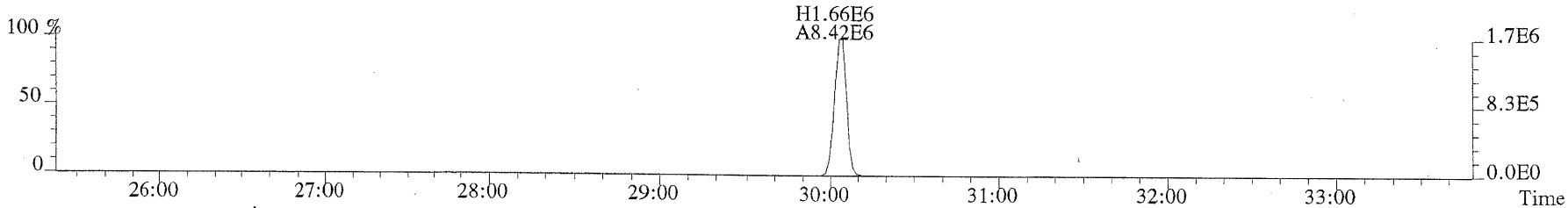
File:27JUL18Z #1-401 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



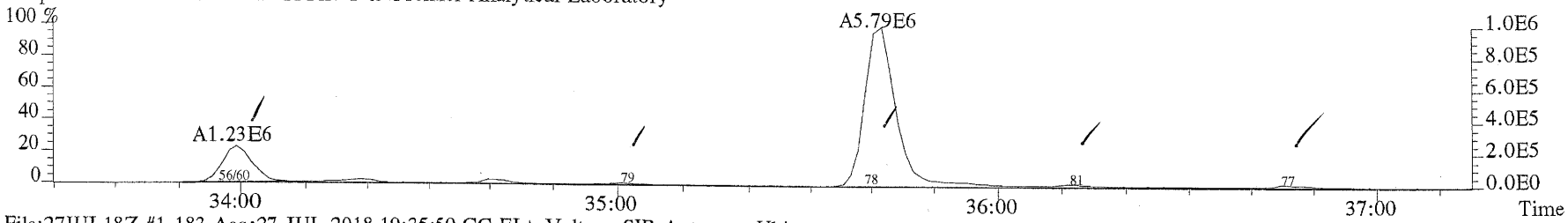
File:27JUL18Z #1-401 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



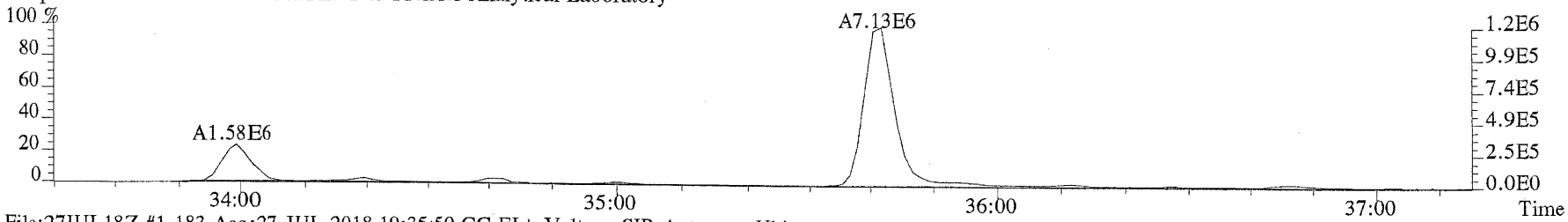
File:27JUL18Z #1-401 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



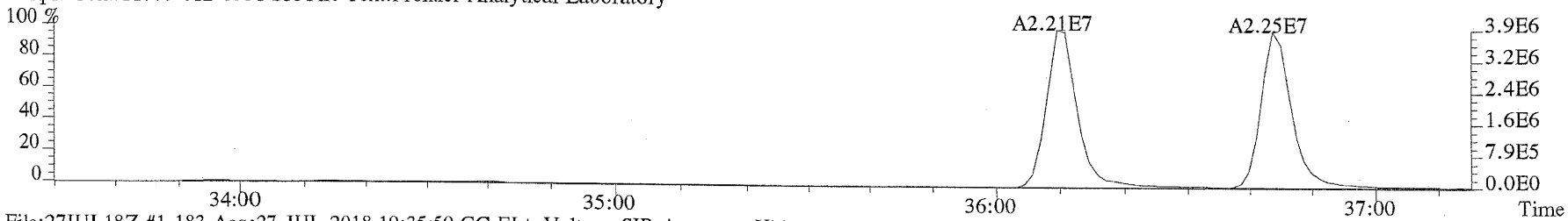
File:27JUL18Z #1-183 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



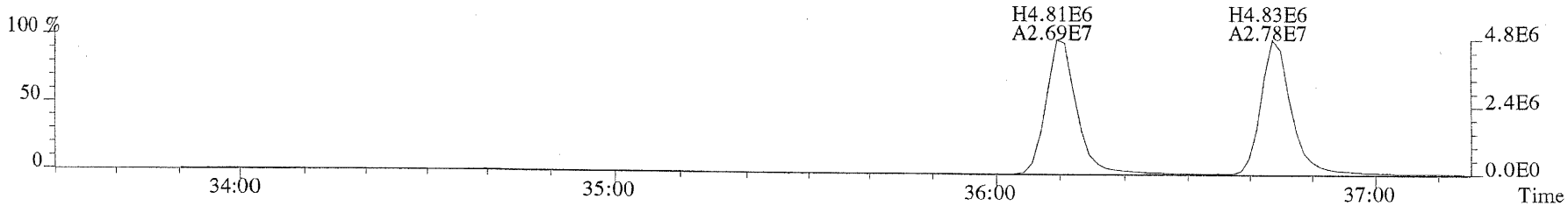
File:27JUL18Z #1-183 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



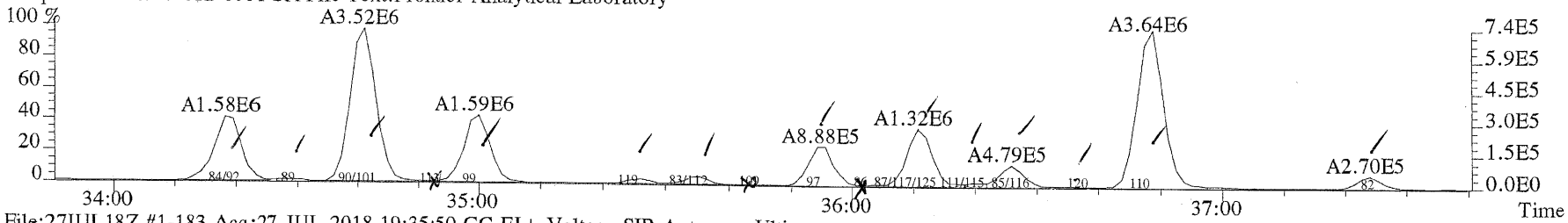
File:27JUL18Z #1-183 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



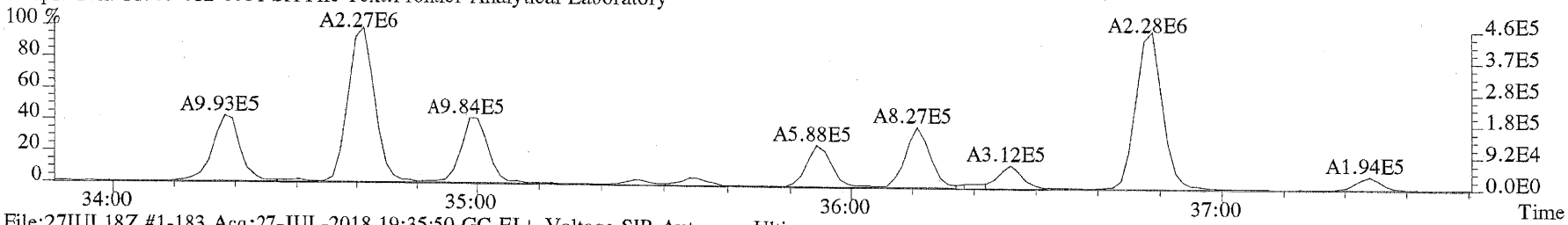
File:27JUL18Z #1-183 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



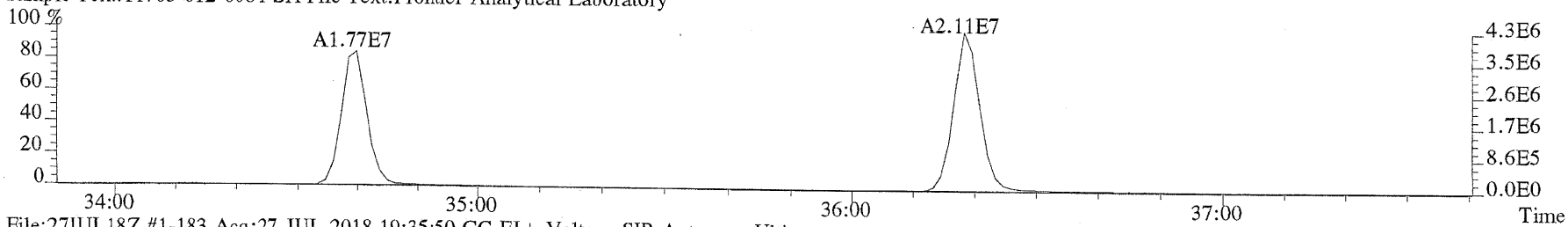
File:27JUL18Z #1-183 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



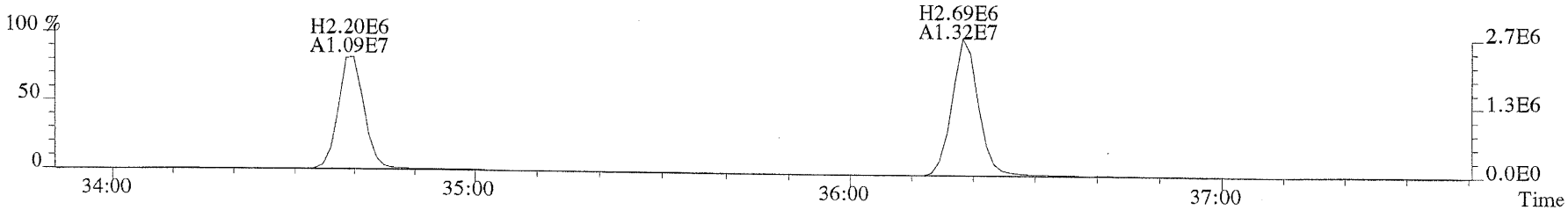
File:27JUL18Z #1-183 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



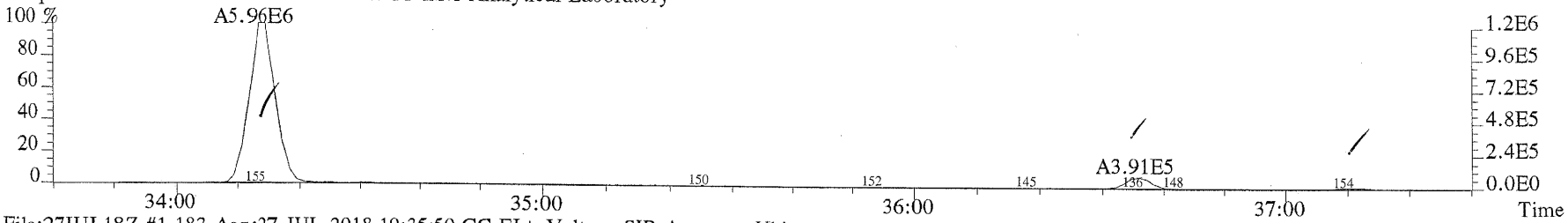
File:27JUL18Z #1-183 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



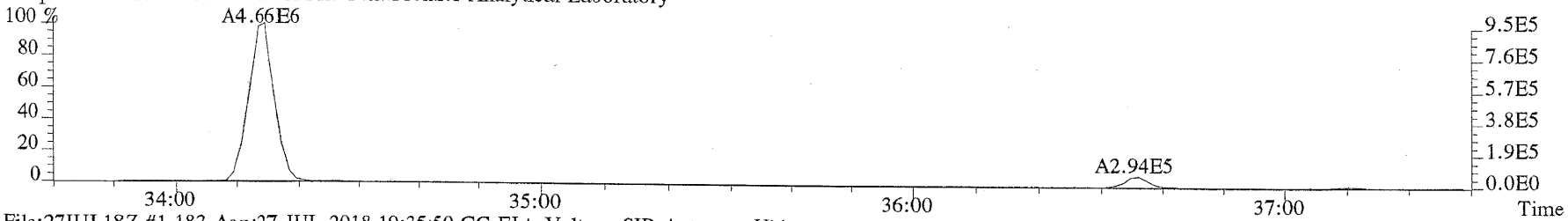
File:27JUL18Z #1-183 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



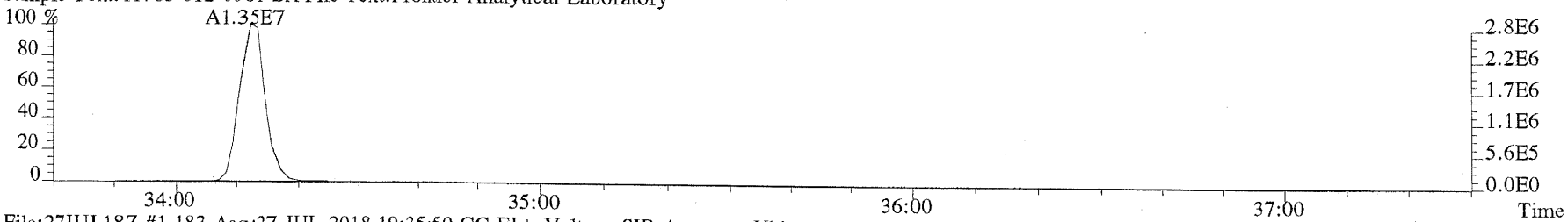
File:27JUL18Z #1-183 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text: 11703-012-0001-SA File Text:Frontier Analytical Laboratory



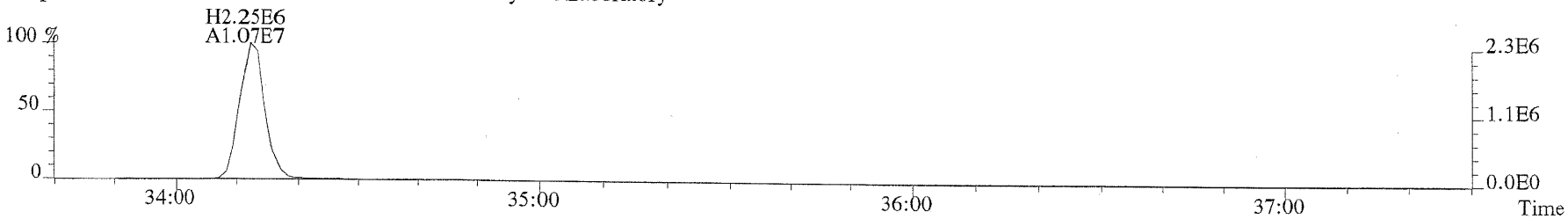
File:27JUL18Z #1-183 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text: 11703-012-0001-SA File Text:Frontier Analytical Laboratory



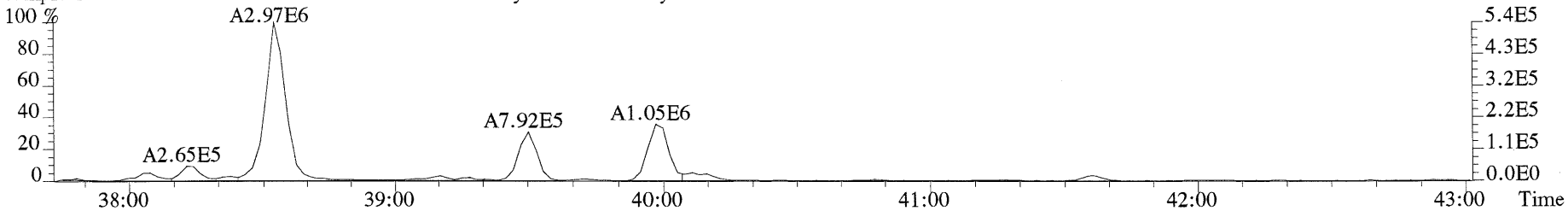
File:27JUL18Z #1-183 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text: 11703-012-0001-SA File Text:Frontier Analytical Laboratory



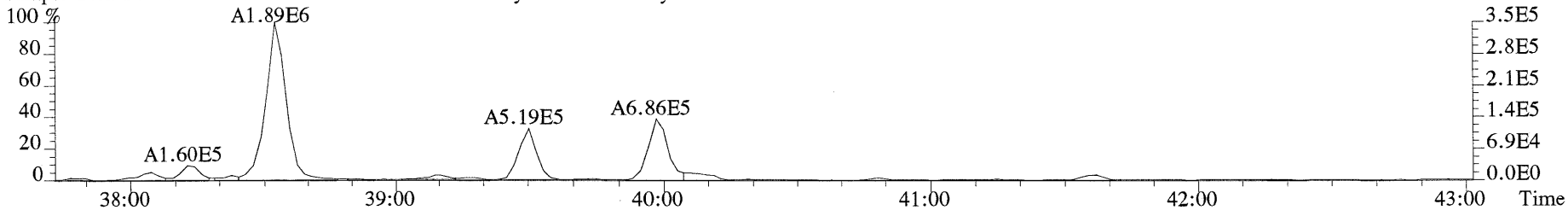
File:27JUL18Z #1-183 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text: 11703-012-0001-SA File Text:Frontier Analytical Laboratory



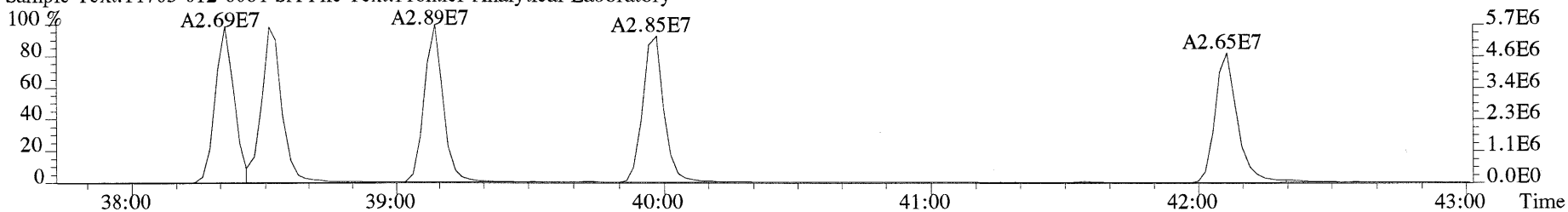
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:12 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



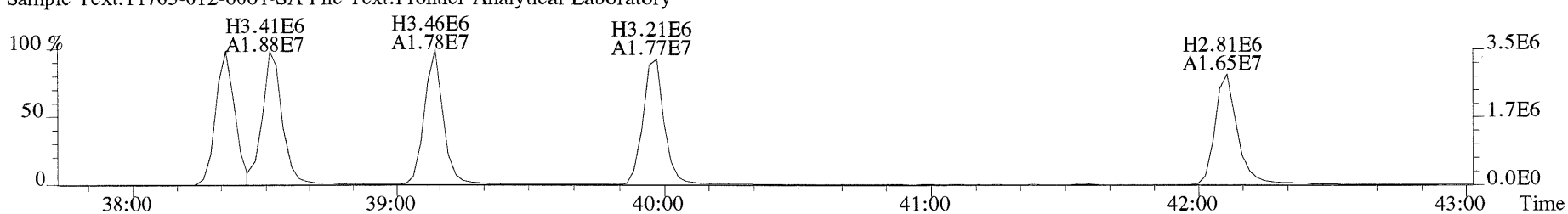
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



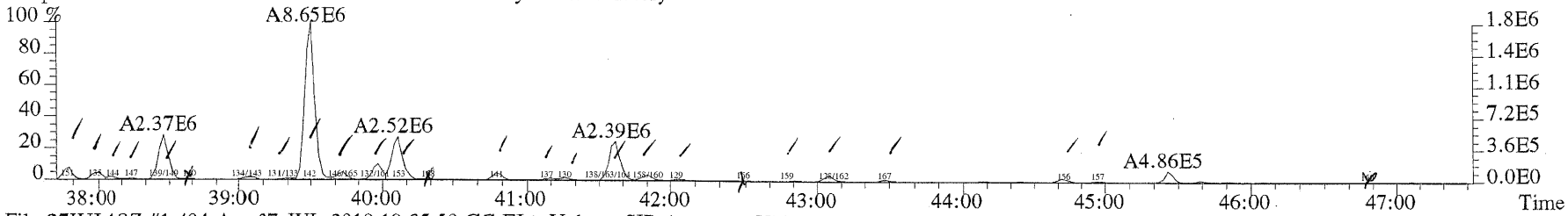
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



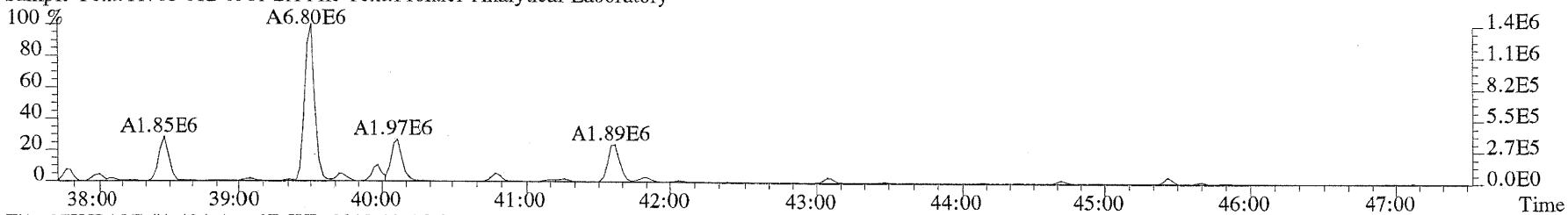
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



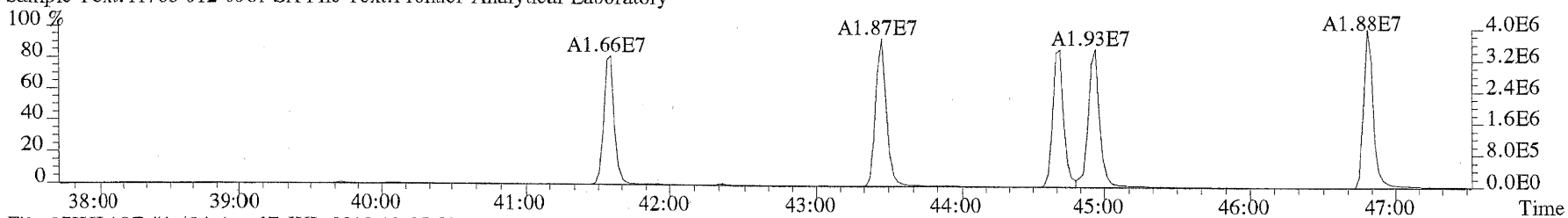
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text: 11703-012-0001-SA File Text:Frontier Analytical Laboratory



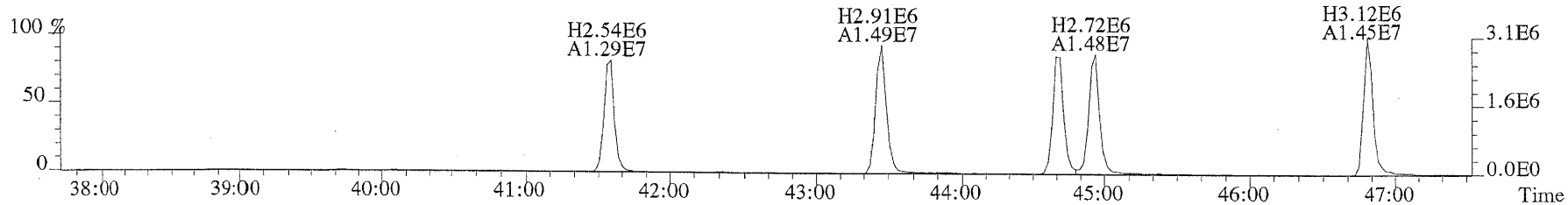
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text: 11703-012-0001-SA File Text:Frontier Analytical Laboratory



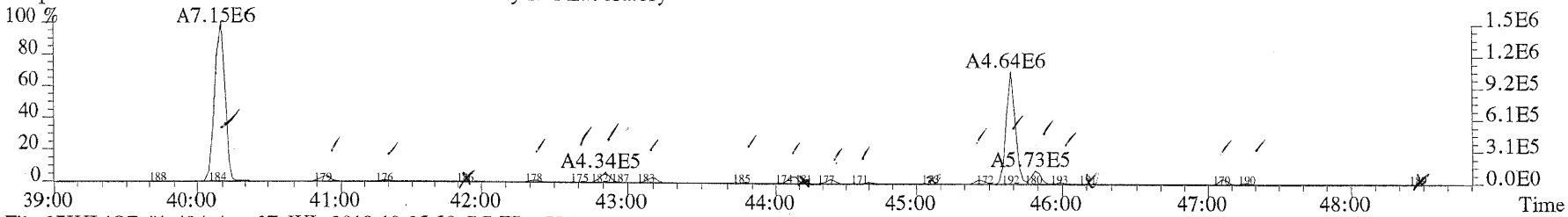
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text: 11703-012-0001-SA File Text:Frontier Analytical Laboratory



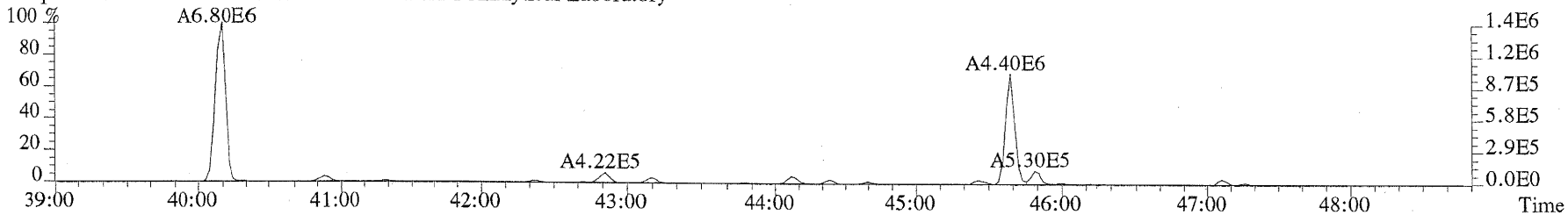
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text: 11703-012-0001-SA File Text:Frontier Analytical Laboratory



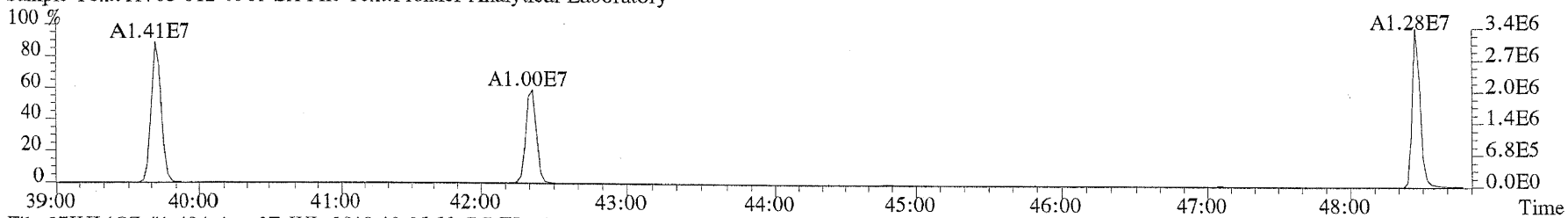
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



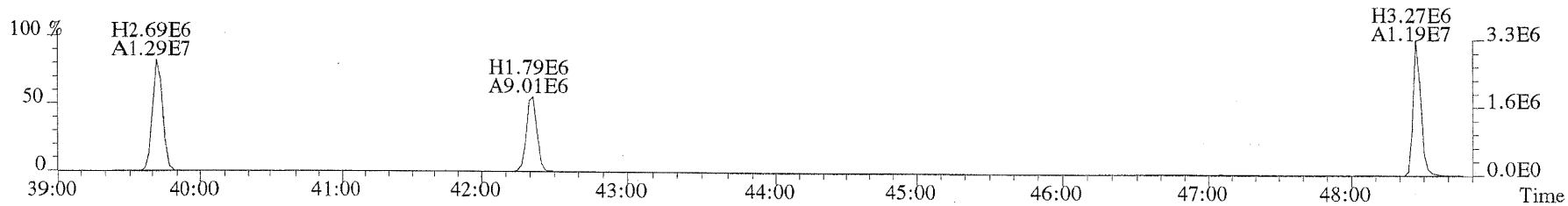
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



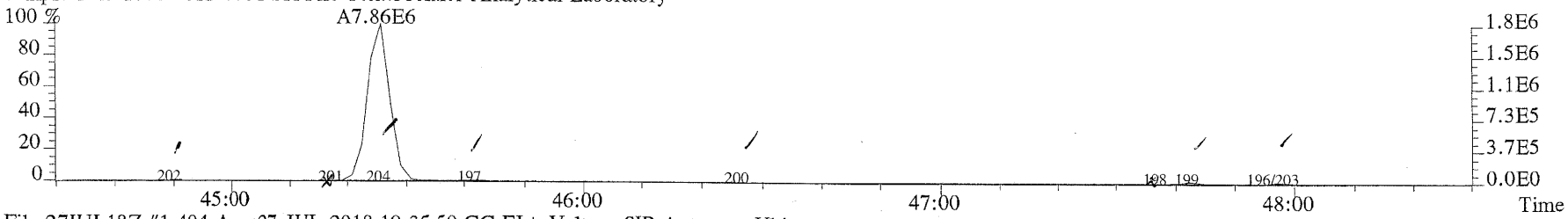
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



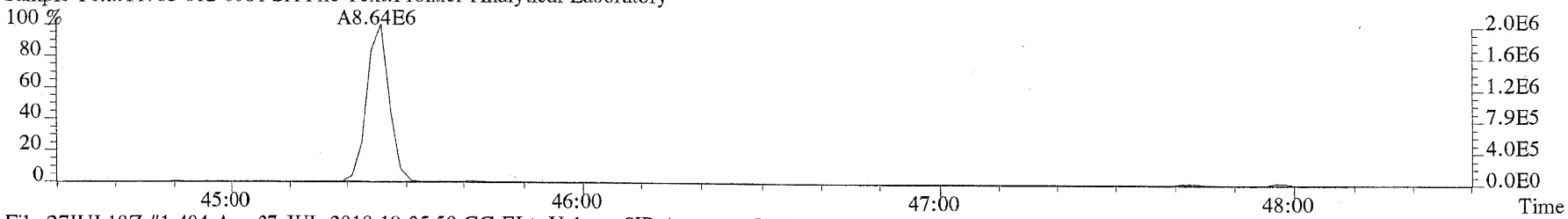
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



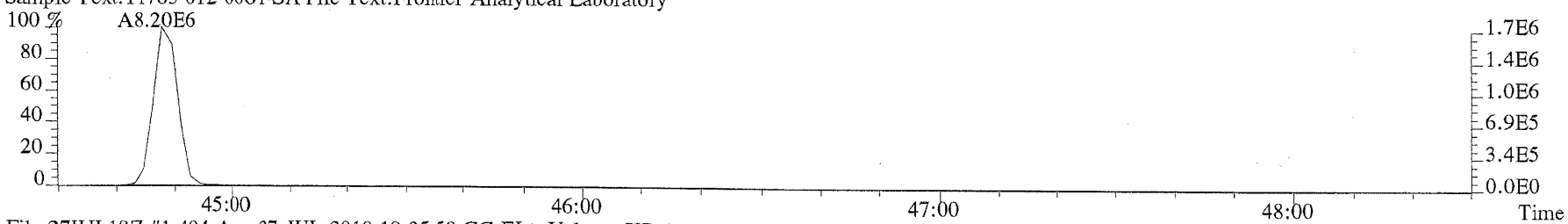
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



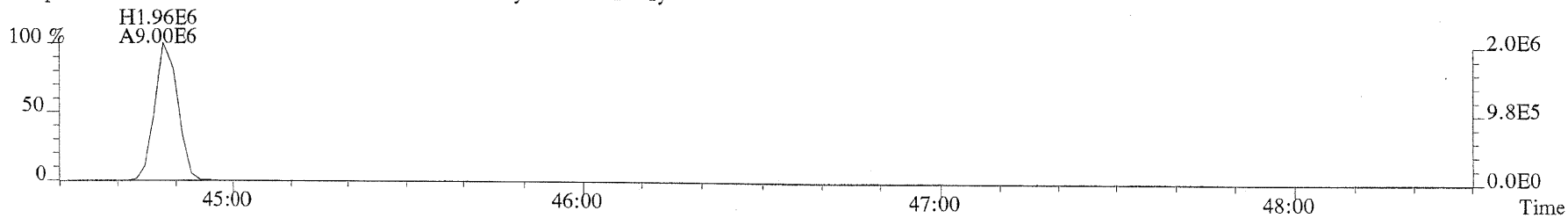
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



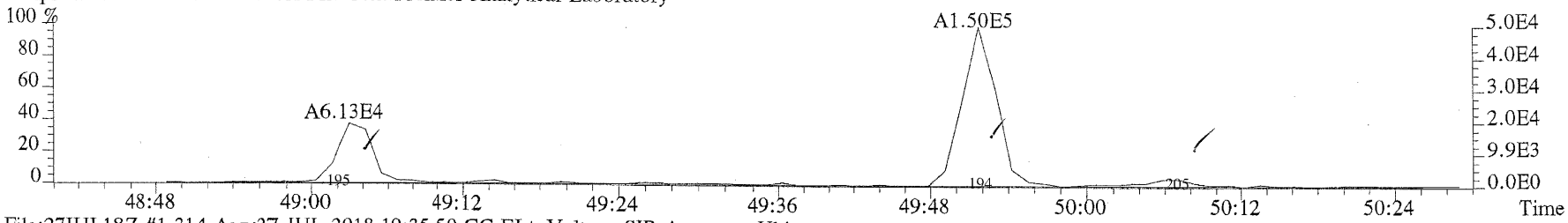
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



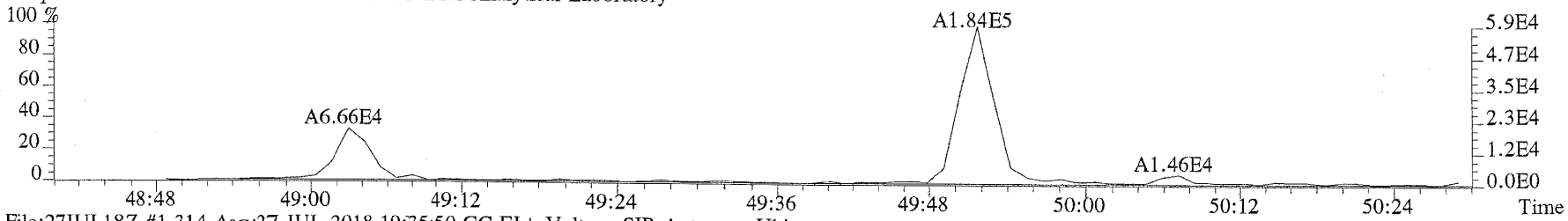
File:27JUL18Z #1-404 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



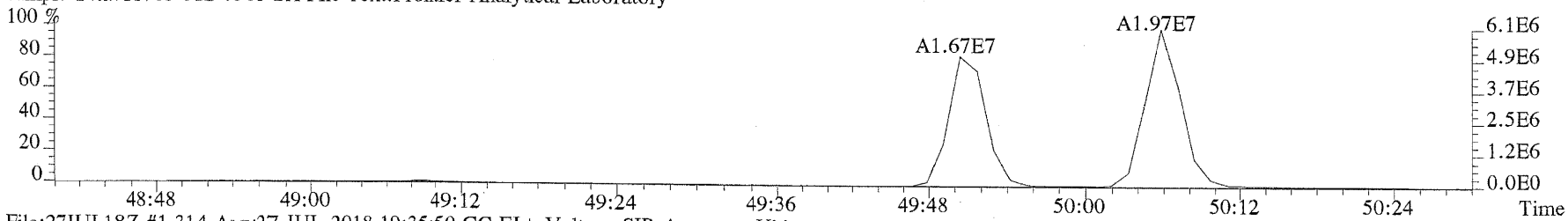
File:27JUL18Z #1-314 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



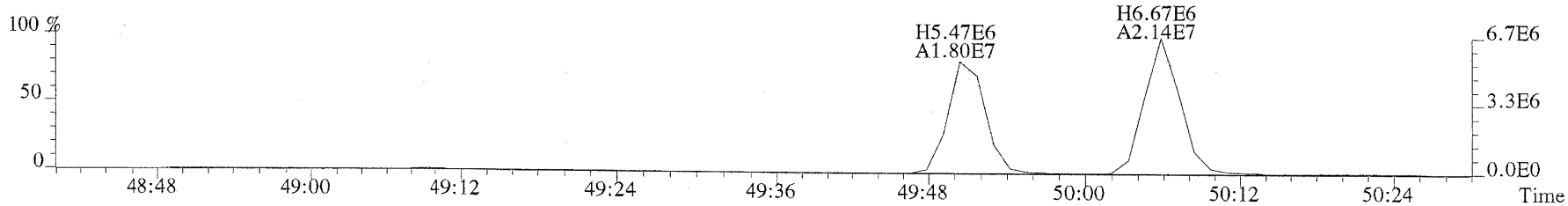
File:27JUL18Z #1-314 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



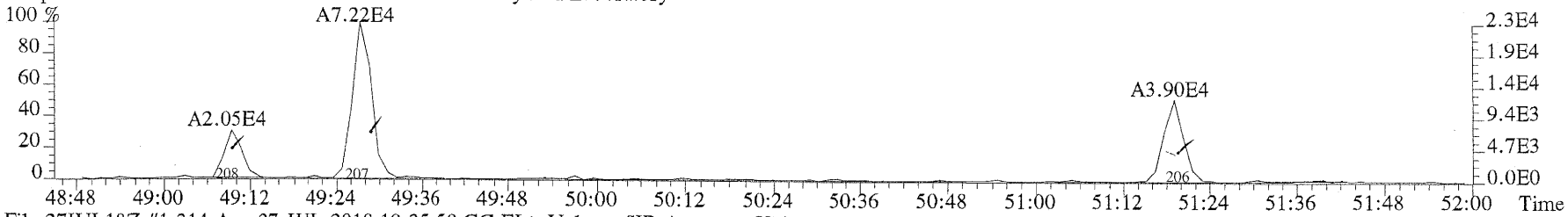
File:27JUL18Z #1-314 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



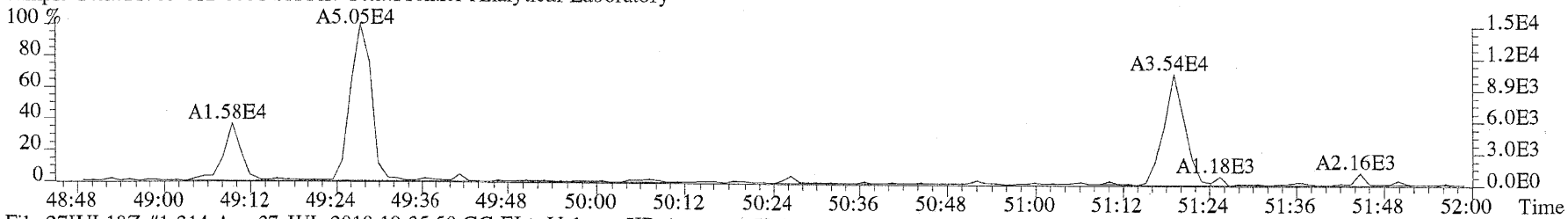
File:27JUL18Z #1-314 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



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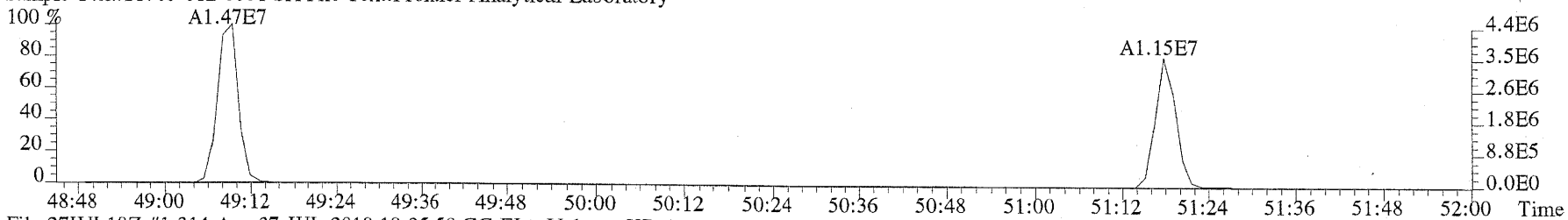
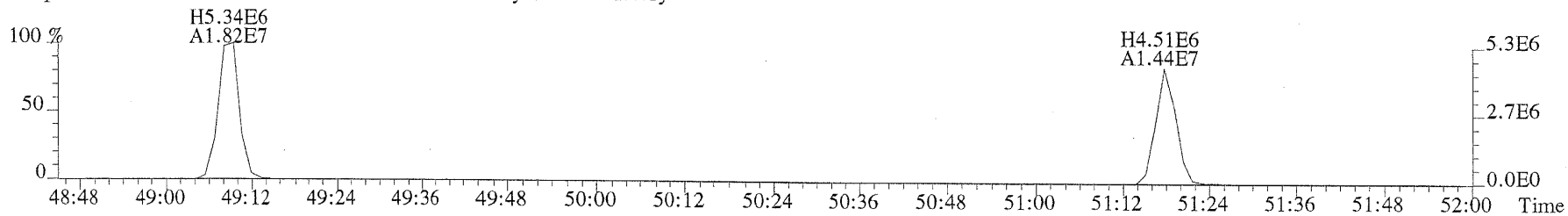
473.7648 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



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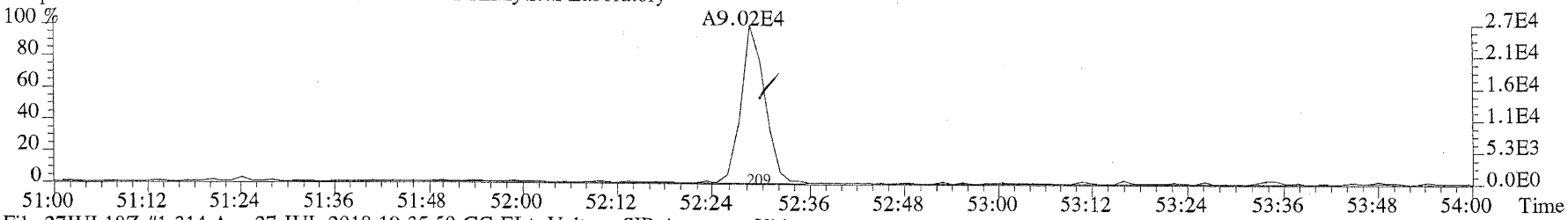
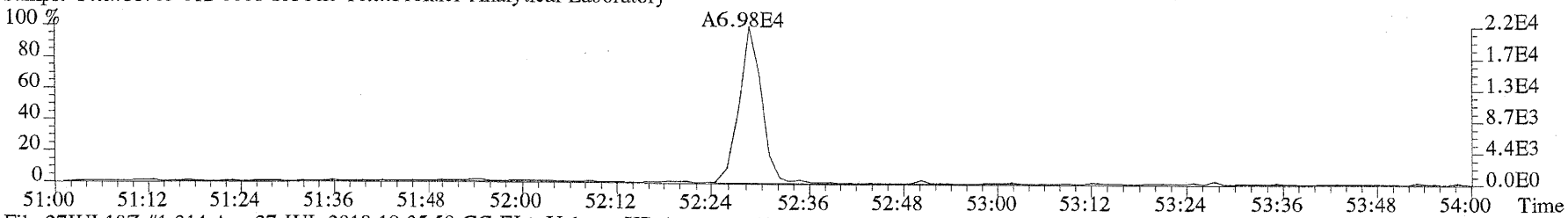
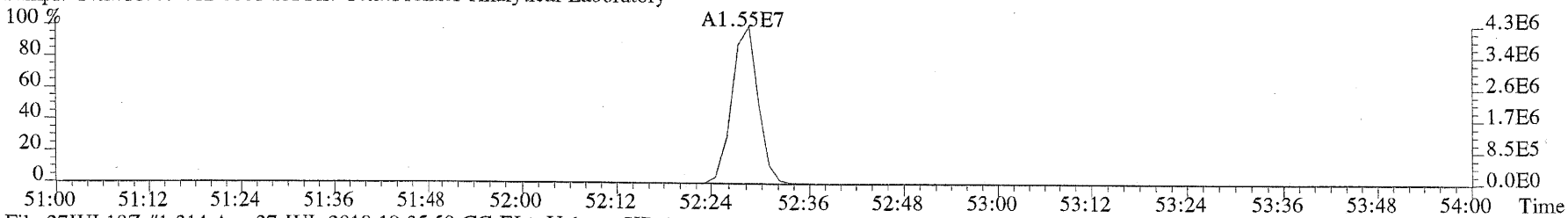
497.6826 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



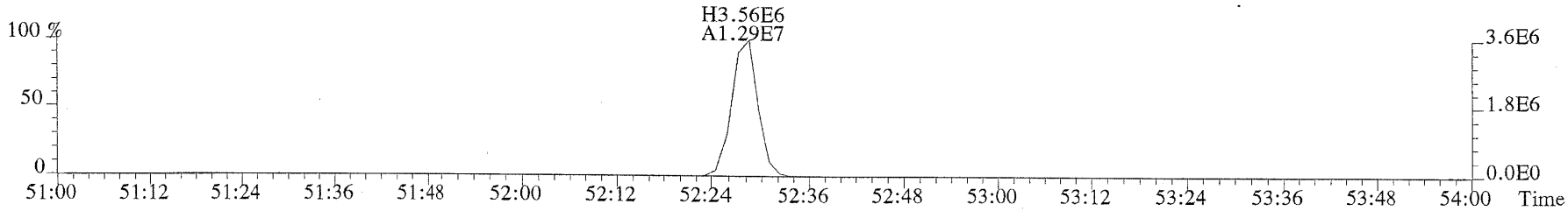
File:27JUL18Z #1-314 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 19:35:50 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-012-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11703-013-0001-SA Filename: 27JUL18Z Sam:13 Acquired: 27-JUL-18 20:34:11 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SU-ENR+AC-CC-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	4.52e+04	2.76 y	14:31	1.17	7.52	J	-	-	*			
13C-PCB-1	5.16e+07	3.19 y	14:30	0.92	9110					91.1	1.27e+07	4.03e+06
PCB-2	*	* n	NotFnd	1.05	*		1570	1210	4.21			
PCB-3	*	* n	NotFnd	1.16	*		1570	1210	4.02			
13C-PCB-3	5.11e+07	3.13 y	16:57	0.93	8920					89.2	1.14e+07	3.56e+06
PCB-4	3.94e+05	1.66 y	18:12	1.42	70.4		-	-	*			
PCB-10	1.05e+05	1.62 y	18:14	1.21	17.2	J	-	-	*			
13C-PCB-4	3.94e+07	1.61 y	18:11	0.68	9480					94.8	7.09e+06	4.40e+06
PCB-9	1.35e+05	1.71 y	19:55	1.40	19.1	J	-	-	*			
PCB-7	9.49e+04	1.57 y	19:57	1.40	13.4	J	-	-	*			
PCB-6	5.35e+05	1.46 y	20:31	1.33	79.6		-	-	*			
PCB-8	1.50e+06	1.49 y	20:54	1.35	220		-	-	*			
PCB-5	7.27e+04	1.46 y	21:01	1.35	10.7	J	-	-	*			
PCB-14	2.11e+06	1.51 y	21:57	1.31	320		-	-	*			
PCB-11	3.68e+05	1.62 y	23:05	1.24	58.8		-	-	*			
PCB-13	*	* n	NotFnd	1.32	*		1100	2520	5.23			
PCB-12	2.74e+04	0.07 n	23:30	1.30	4.18	J	-	-	*			
PCB-15	4.78e+05	1.51 y	23:45	1.26	61.6		-	-	*			
13C-PCB-15	6.15e+07	1.64 y	23:44	1.00	10000					100	8.98e+06	5.45e+06
PCB-19	3.75e+05	1.15 y	22:05	1.19	128		-	-	*			
PCB-30	*	* n	NotFnd	1.63	*		2300	516	6.64			
PCB-18	3.55e+06	1.09 y	23:39	1.14	1270		-	-	*			
PCB-17	1.75e+06	1.13 y	23:49	1.23	579		-	-	*			
PCB-27	2.18e+05	1.03 y	24:19	1.49	59.5		-	-	*			
PCB-24	2.25e+05	1.15 y	24:20	1.69	54.3		-	-	*			
PCB-16	1.06e+06	1.06 y	24:49	1.36	316		-	-	*			
PCB-32	1.49e+06	1.11 y	24:51	1.41	432		-	-	*			
13C-PCB-19	2.45e+07	1.07 y	22:04	0.44	9010					90.1	3.41e+06	3.11e+06
13C-PCB-9	6.14e+07	1.63 y	19:52	-	53.7							
PCB-34	8.08e+04	1.09 y	25:36	1.03	14.6	J	-	-	*			
PCB-23	*	* n	NotFnd	1.10	*		456	551	2.15			
PCB-29	5.84e+04	1.04 y	25:55	1.14	9.52	J	-	-	*			
PCB-26	1.68e+06	1.03 y	26:08	1.04	299		-	-	*			
PCB-25	8.87e+05	1.01 y	26:17	1.36	122		-	-	*			
PCB-31	6.14e+06	1.02 y	26:37	1.12	1020		-	-	*			
PCB-28	7.55e+06	1.06 y	26:43	1.44	979		-	-	*			
PCB-20	3.50e+06	1.01 y	27:19	1.24	527		-	-	*		Co-elute PCB 21/33	
PCB-21	3.50e+06	1.01 y	27:19	1.24	527		-	-	*		Co-elute PCB 20/33	
PCB-33	3.50e+06	1.01 y	27:19	1.24	527		-	-	*		Co-elute PCB 20/21	
PCB-22	2.09e+06	1.00 y	27:43	1.24	314		-	-	*			
PCB-36	3.73e+06	1.04 y	28:20	1.13	616		-	-	*			
PCB-39	*	* n	NotFnd	1.16	*		456	551	2.04			
PCB-38	7.27e+04	1.00 y	29:29	1.12	12.1	J	-	-	*			
PCB-35	8.67e+04	1.18 y	30:01	1.08	15.0	J	-	-	*			
PCB-37	8.52e+05	1.02 y	30:26	1.22	130		-	-	*			
13C-PCB-37	5.37e+07	1.08 y	30:23	1.72	10300					103	5.52e+06	5.14e+06

PCB-54	3.54e+04	0.66	y	25:36	1.21	9.14	J	-	-	*			
PCB-50	4.25e+04	0.82	y	26:45	0.91	14.6	J	-	-	*			
PCB-53	1.10e+06	0.81	y	27:20	0.93	368		-	-	*			
PCB-51	3.62e+05	0.76	y	27:40	0.95	119		-	-	*			
PCB-45	9.38e+05	0.82	y	28:04	0.79	371		-	-	*			
PCB-46	3.32e+05	0.80	y	28:32	0.78	133		-	-	*			
PCB-52	8.69e+06	0.80	y	28:59	1.13	2380		-	-	*	Co-elute PCB 69		
PCB-69	8.69e+06	0.80	y	28:59	1.13	2380		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.11	*		688	700	3.86			
PCB-43	5.30e+06	0.80	y	29:16	0.88	1880		-	-	*	Co-elute PCB 49		
PCB-49	5.30e+06	0.80	y	29:16	0.88	1880		-	-	*	Co-elute PCB 43		
PCB-47	1.78e+06	0.79	y	29:28	1.04	535		-	-	*			
PCB-48	1.53e+06	0.80	y	29:34	1.14	417		-	-	*	Co-elute PCB 75		
PCB-75	1.53e+06	0.80	y	29:34	1.14	417		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.15	*		688	700	3.72			
PCB-62	*	*	n	NotFnd	1.10	*		688	700	3.91			
PCB-44	4.49e+06	0.81	y	30:13	0.80	1740		-	-	*			
PCB-42	2.01e+06	0.84	y	30:27	1.07	586		-	-	*	Co-elute PCB 59		
PCB-59	2.01e+06	0.84	y	30:27	1.07	586		-	-	*	Co-elute PCB 42		
PCB-72	5.11e+06	0.80	y	31:00	1.14	1400		-	-	*	Co-elute PCB 41/71/64		
PCB-41	5.11e+06	0.80	y	31:00	1.14	1400		-	-	*	Co-elute PCB 72/71/64		
PCB-71	5.11e+06	0.80	y	31:00	1.14	1400		-	-	*	Co-elute PCB 72/41/64		
PCB-64	5.11e+06	0.80	y	31:00	1.14	1400		-	-	*	Co-elute PCB 72/41/71		
PCB-68	1.20e+05	0.66	y	31:14	1.22	30.7		-	-	*			
PCB-40	6.89e+05	0.76	y	31:25	0.70	307		-	-	*			
PCB-57	5.08e+04	0.78	y	31:48	1.10	14.4	J	-	-	*			
PCB-67	1.98e+05	0.74	y	32:06	1.18	52.0		-	-	*			
PCB-58	2.62e+04	0.76	y	32:12	1.07	7.59	J	-	-	*			
PCB-63	2.36e+05	0.85	y	32:21	1.12	65.4		-	-	*			
PCB-74	2.40e+06	0.79	y	32:37	1.25	596		-	-	*			
PCB-61	5.49e+06	0.80	y	32:49	1.19	1440		-	-	*	Co-elute PCB 70		
PCB-70	5.49e+06	0.80	y	32:49	1.19	1440		-	-	*	Co-elute PCB 61		
PCB-76	4.49e+06	0.80	y	33:01	1.18	1190		-	-	*	Co-elute PCB 66		
PCB-66	4.49e+06	0.80	y	33:01	1.18	1190		-	-	*	Co-elute PCB 76		
PCB-80	1.36e+05	0.80	y	33:12	1.28	33.0		-	-	*			
PCB-55	2.51e+05	0.88	y	33:32	1.17	66.8		-	-	*			
13C-PCB-54	3.22e+07	0.83	y	25:36	1.14	9290					92.9	3.65e+06	4.45e+06
PCB-104	4.12e+06	1.61	y	30:04	1.26	1720		-	-	*			
PCB-96	8.75e+04	1.51	y	31:15	1.11	41.3		-	-	*			
PCB-103	8.60e+04	1.76	y	31:47	0.97	46.6		-	-	*			
PCB-100	4.62e+04	1.39	y	32:06	0.97	25.0		-	-	*			
PCB-94	2.80e+04	1.42	y	32:32	0.82	17.9	j	-	-	*			
PCB-98	*	*	n	NotFnd	0.44	*		268	304	7.95	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.44	*		268	304	7.95	Co-elute PCB 98		
PCB-95	4.12e+06	1.60	y	33:04	0.89	2440		-	-	*			
PCB-93	*	*	n	NotFnd	0.82	*		268	304	4.33			
PCB-88	2.94e+05	1.53	y	33:25	0.91	170		-	-	*	Co-elute PCB 91		
PCB-91	2.94e+05	1.53	y	33:25	0.91	170		-	-	*	Co-elute PCB 88		
PCB-121	7.39e+06	1.62	y	33:32	1.08	3590		-	-	*			
13C-PCB-104	1.91e+07	1.63	y	30:03	0.64	9870					98.7	2.54e+06	1.52e+06
13C-PCB-28	6.10e+07	1.08	y	26:42	1.96	10200					102	7.05e+06	6.34e+06
13C-PCB-52	3.04e+07	0.81	y	28:57	-	54.5							

PCB-56	3.23e+06	0.80	y	33:59	1.22	626		-	-	*			Co-elute PCB 60
PCB-60	3.23e+06	0.80	y	33:59	1.22	626		-	-	*			Co-elute PCB 56
PCB-79	1.40e+05	0.84	y	35:00	1.22	27.2		-	-	*			
PCB-78	9.72e+06	0.81	y	35:42	1.17	1970		-	-	*			
PCB-81	2.60e+05	0.72	y	36:11	1.24	49.9		-	-	*			
13C-PCB-81	4.19e+07	0.81	y	36:10	1.62	10500					105	3.40e+06	4.20e+06
PCB-77	3.23e+05	0.82	y	36:46	1.18	64.7		-	-	*			
13C-PCB-77	4.24e+07	0.82	y	36:44	1.62	10600					106	3.31e+06	3.96e+06
PCB-155	8.31e+06	1.28	y	34:13	1.16	3480		-	-	*			
PCB-150	*	*	n	NotFnd	1.03	*		396	264	3.66			
PCB-152	*	*	n	NotFnd	0.97	*		396	264	3.87			
PCB-145	*	*	n	NotFnd	1.00	*		396	264	3.78			
PCB-136	6.73e+05	1.33	y	36:35	0.89	366		-	-	*			
PCB-148	*	*	n	NotFnd	0.83	*		396	264	4.56			
PCB-154	7.37e+04	1.26	y	37:09	0.88	40.5		-	-	*			
13C-PCB-155	2.07e+07	1.31	y	34:12	0.86	9760					97.6	2.51e+06	1.87e+06
13C-PCB-111	2.95e+07	1.61	y	36:18	1.16	10300					103	3.56e+06	2.24e+06
13C-PCB-101	2.47e+07	1.60	y	34:40	-	56.0							
PCB-84	2.76e+06	1.51	y	34:18	0.65	1070		-	-	*			Co-elute PCB 92
PCB-92	2.76e+06	1.51	y	34:18	0.65	1070		-	-	*			Co-elute PCB 84
PCB-89	9.12e+04	1.63	y	34:30	0.62	36.8		-	-	*			
PCB-90	6.28e+06	1.61	y	34:41	0.71	2210		-	-	*			Co-elute PCB 101
PCB-101	6.28e+06	1.61	y	34:41	0.71	2210		-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.75	*		510	480	4.33			
PCB-99	2.78e+06	1.58	y	35:00	0.84	829		-	-	*			
PCB-119	2.00e+05	1.60	y	35:25	0.90	55.7		-	-	*			
PCB-83	3.08e+05	1.52	y	35:35	0.70	110		-	-	*			Co-elute PCB 112
PCB-112	3.08e+05	1.52	y	35:35	0.70	110		-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.85	*		510	480	3.79			
PCB-97	1.56e+06	1.62	y	35:54	0.78	502		-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*		510	480	4.93			
PCB-125	2.30e+06	1.53	y	36:11	0.80	725		-	-	*			Co-elute PCB 87/117
PCB-87	2.30e+06	1.53	y	36:11	0.80	725		-	-	*			Co-elute PCB 125/117
PCB-117	2.30e+06	1.53	y	36:11	0.80	725		-	-	*			Co-elute PCB 125/87
PCB-111	1.55e+05	1.55	y	36:21	0.98	39.8		-	-	*			Co-elute PCB 115
PCB-115	1.55e+05	1.55	y	36:21	0.98	39.8		-	-	*			Co-elute PCB 111
PCB-85	8.85e+05	1.53	y	36:26	0.77	290		-	-	*			Co-elute PCB 116
PCB-116	8.85e+05	1.53	y	36:26	0.77	290		-	-	*			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.89	*		510	480	3.62			
PCB-110	6.53e+06	1.57	y	36:49	0.92	1780		-	-	*			
PCB-82	4.98e+05	1.57	y	37:24	0.51	244		-	-	*			
PCB-124	2.87e+05	1.42	y	38:05	1.11	64.9		-	-	*			
PCB-108	4.20e+05	1.59	y	38:15	1.18	89.8		-	-	*			Co-elute PCB 107
PCB-107	4.20e+05	1.59	y	38:15	1.18	89.8		-	-	*			Co-elute PCB 108
PCB-123	9.05e+04	1.43	y	38:21	1.37	17.7	J	-	-	*			
13C-PCB-123	3.72e+07	1.63	y	38:21	1.46	9920					99.2	4.78e+06	2.94e+06
PCB-118	5.19e+06	1.55	y	38:33	1.09	1120		-	-	*			Co-elute PCB 106
PCB-106	5.19e+06	1.55	y	38:33	1.09	1120		-	-	*			Co-elute PCB 118
13C-PCB-118	4.24e+07	1.65	y	38:31	1.59	10400					104	4.84e+06	2.98e+06
PCB-114	1.76e+05	1.39	y	39:09	1.18	36.9		-	-	*			
13C-PCB-114	4.06e+07	1.65	y	39:09	1.51	10500					105	5.08e+06	3.06e+06
PCB-122	9.98e+04	1.50	y	39:15	1.15	21.8		-	-	*			
PCB-105	1.85e+06	1.55	y	39:58	1.14	414		-	-	*			
13C-PCB-105	3.90e+07	1.64	y	39:58	1.47	10300					103	4.23e+06	2.67e+06

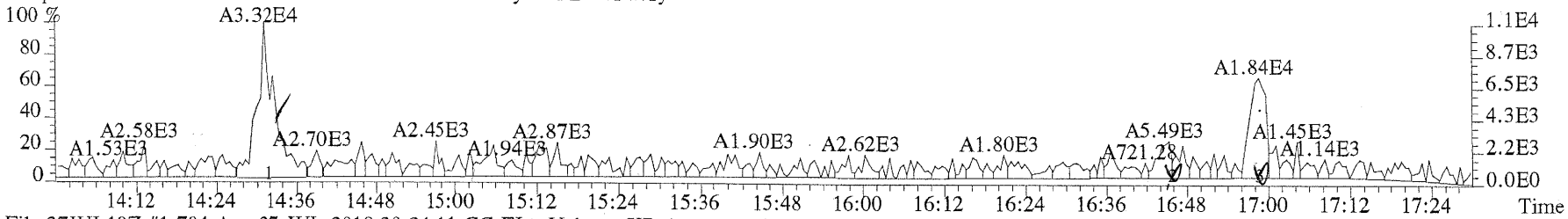
PCB-127	*	*	n	NotFnd	1.02	*		848	950	5.80				
PCB-126	*	*	n	NotFnd	1.18	*		848	950	5.87				
13C-PCB-126	3.84e+07	1.61	y	42:07	1.39	10800					108	4.01e+06	2.48e+06	
PCB-151	1.11e+06	1.29	y	37:48	0.89	437		-	-	*				
PCB-135	6.05e+05	1.26	y	38:00	0.90	233		-	-	*				
PCB-144	2.46e+05	1.24	y	38:06	0.85	101		-	-	*				
PCB-147	1.07e+05	1.25	y	38:15	0.90	41.6		-	-	*				
PCB-139	3.80e+06	1.29	y	38:28	0.95	1390		-	-	*		Co-elute PCB 149		
PCB-149	3.80e+06	1.29	y	38:28	0.95	1390		-	-	*		Co-elute PCB 139		
PCB-140	4.94e+04	1.32	y	38:38	0.92	18.7	J	-	-	*				
PCB-143	2.53e+05	1.12	y	39:04	0.87	101		-	-	*		Co-elute PCB 134		
PCB-134	2.53e+05	1.12	y	39:04	0.87	101		-	-	*		Co-elute PCB 143		
PCB-131	1.05e+05	1.16	y	39:20	0.89	40.8		-	-	*		Co-elute PCB 133		
PCB-133	1.05e+05	1.16	y	39:20	0.89	40.8		-	-	*		Co-elute PCB 131		
PCB-142	1.20e+07	1.28	y	39:30	0.77	5430		-	-	*				
PCB-165	7.17e+05	1.19	y	39:43	1.04	240		-	-	*		Co-elute PCB 146		
PCB-146	7.17e+05	1.19	y	39:43	1.04	240		-	-	*		Co-elute PCB 165		
PCB-161	1.36e+06	1.28	y	39:58	0.97	487		-	-	*		Co-elute PCB 132		
PCB-132	1.36e+06	1.28	y	39:58	0.97	487		-	-	*		Co-elute PCB 161		
PCB-153	3.86e+06	1.25	y	40:06	1.01	1340		-	-	*				
PCB-168	*	*	n	NotFnd	1.12	*		856	604	5.77				
PCB-141	6.28e+05	1.30	y	40:48	0.88	249		-	-	*				
PCB-137	1.30e+05	1.20	y	41:11	0.83	54.6		-	-	*				
PCB-130	1.97e+05	1.19	y	41:16	0.78	88.3		-	-	*				
PCB-138	3.79e+06	1.28	y	41:37	1.14	1150		-	-	*		Co-elute PCB 163/164		
PCB-163	3.79e+06	1.28	y	41:37	1.14	1150		-	-	*		Co-elute PCB 138/164		
PCB-164	3.79e+06	1.28	y	41:37	1.14	1150		-	-	*		Co-elute PCB 138/163		
PCB-158	4.49e+05	1.24	y	41:50	1.14	137		-	-	*		Co-elute PCB 160		
PCB-160	4.49e+05	1.24	y	41:50	1.14	137		-	-	*		Co-elute PCB 158		
PCB-129	1.47e+05	1.31	y	42:03	0.73	69.9		-	-	*				
PCB-166	*	*	n	NotFnd	1.07	*		856	604	6.05				
PCB-159	5.66e+04	1.35	y	42:51	1.17	16.9	J	-	-	*				
PCB-128	4.81e+05	1.31	y	43:04	0.97	174		-	-	*		Co-elute PCB 162		
PCB-162	4.81e+05	1.31	y	43:04	0.97	174		-	-	*		Co-elute PCB 128		
PCB-167	1.12e+05	1.13	y	43:27	1.05	37.1		-	-	*				
13C-PCB-167	2.90e+07	1.29	y	43:27	1.15	9820					98.2	3.28e+06	2.53e+06	
PCB-156	2.50e+05	1.23	y	44:41	1.09	82.4		-	-	*				
13C-PCB-156	2.79e+07	1.29	y	44:41	1.12	9700					97.0	3.02e+06	2.32e+06	
PCB-157	6.22e+04	1.07	y	44:56	1.13	18.8	J	-	-	*				
13C-PCB-157	2.94e+07	1.29	y	44:56	1.15	9930					99.3	3.16e+06	2.42e+06	
PCB-169	*	*	n	NotFnd	1.06	*		856	604	5.90				
13C-PCB-169	2.85e+07	1.26	y	46:48	1.08	10300					103	3.27e+06	2.59e+06	

FAL ID: 11703-013-0001-SA Filename: 27JUL18Z Sam:13 Acquired: 27-JUL-18 20:34:11 ICal: DAILY209FAL4-7-27-18
Client ID: LDW-Y1-SU-ENR+AC-CC-S010 ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

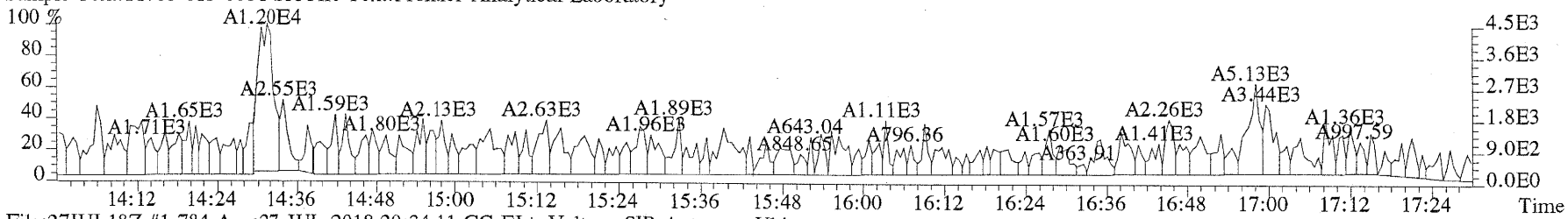
PCB-188	*	*	n	NotFnd	1.17	*		524	296	3.67			
13C-PCB-188	2.25e+07	1.08	y	39:42	0.93	9440					94.4	2.49e+06	2.28e+06
PCB-184	1.11e+07	1.08	y	40:10	1.22	4190		-	-	*			
PCB-179	3.60e+05	1.03	y	40:53	1.12	148		-	-	*			
PCB-176	1.11e+05	1.15	y	41:19	1.09	46.6		-	-	*			
PCB-186	*	*	n	NotFnd	1.14	*		524	296	3.53			
PCB-178	9.91e+04	1.05	y	42:21	0.80	57.2		-	-	*			
PCB-175	2.66e+04	0.90	y	42:41	0.85	14.5	J	-	-	*			
PCB-187	6.52e+05	1.02	y	42:51	0.95	314		-	-	*		Co-elute PCB 182	
PCB-182	6.52e+05	1.02	y	42:51	0.95	314		-	-	*		Co-elute PCB 187	
PCB-183	3.20e+05	1.00	y	43:11	0.91	162		-	-	*			
PCB-185	5.91e+04	1.15	y	43:47	0.88	31.0		-	-	*			
PCB-174	4.54e+05	1.04	y	44:08	0.81	258		-	-	*			
PCB-181	*	*	n	NotFnd	0.92	*		524	296	4.35			
PCB-177	2.51e+05	1.12	y	44:23	0.79	146		-	-	*			
PCB-171	1.22e+05	1.20	y	44:40	0.83	67.8		-	-	*			
PCB-173	*	*	n	NotFnd	0.78	*		524	296	5.13			
PCB-172	2.70e+05	1.06	y	45:26	0.79	157		-	-	*			
PCB-192	7.24e+06	1.05	y	45:39	1.08	3100		-	-	*			
PCB-180	7.98e+05	1.15	y	45:49	1.04	352		-	-	*			
PCB-193	8.59e+04	1.00	y	46:00	1.12	35.3		-	-	*			
PCB-191	*	*	n	NotFnd	1.05	*		524	296	3.83			
PCB-170	2.67e+05	0.93	y	47:06	0.75	164		-	-	*			
PCB-190	9.22e+04	1.15	y	47:16	1.02	41.8		-	-	*			
PCB-189	*	*	n	NotFnd	1.13	*		524	296	3.28			
13C-PCB-189	2.10e+07	1.07	y	48:27	0.81	10000					100	2.85e+06	2.67e+06
PCB-202	3.19e+04	0.81	y	44:51	1.00	21.2		-	-	*			
PCB-201	*	*	n	NotFnd	0.95	*		224	288	4.21			
PCB-204	1.33e+07	0.93	y	45:26	0.97	9090		-	-	*			
PCB-197	8.87e+04	0.98	y	45:41	1.05	56.1		-	-	*			
PCB-200	*	*	n	NotFnd	0.97	*		224	288	4.11			
PCB-198	*	*	n	NotFnd	0.70	*		224	288	5.72			
PCB-199	8.13e+04	1.00	y	47:42	0.78	69.3		-	-	*			
PCB-203	1.00e+05	0.89	y	47:57	0.80	82.6		-	-	*		Co-elute PCB 196	
PCB-196	1.00e+05	0.89	y	47:57	0.80	82.6		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.51e+07	0.93	y	44:48	0.60	9780					97.8	1.53e+06	1.68e+06
13C-PCB-178	1.66e+07	1.08	y	42:21	0.67	9700					97.0	1.71e+06	1.55e+06
13C-PCB-138	2.56e+07	1.28	y	41:35	-	59.3							
PCB-195	6.07e+04	0.95	y	49:04	0.78	22.3		-	-	*			
PCB-194	1.60e+05	0.85	y	49:52	0.83	55.4		-	-	*			
PCB-205	1.73e+04	0.83	y	50:07	1.12	4.42	J	-	-	*			
13C-PCB-205	3.50e+07	0.92	y	50:06	1.29	9370					93.7	5.49e+06	5.90e+06
PCB-208	1.52e+04	1.28	y	49:09	1.01	5.43	J	-	-	*			
13C-PCB-208	2.78e+07	0.80	y	49:09	1.11	8690					86.9	4.08e+06	4.97e+06
PCB-207	9.27e+04	1.49	y	49:27	0.98	38.3		-	-	*			
PCB-206	3.20e+04	1.18	y	51:18	1.02	14.5	J	-	-	*			
13C-PCB-206	2.17e+07	0.80	y	51:18	0.89	8460					84.6	2.87e+06	3.53e+06
PCB-209	1.15e+05	1.28	y	52:28	1.11	43.7		-	-	*			
13C-PCB-209	2.39e+07	1.19	y	52:27	0.97	8500					85.0	3.66e+06	3.15e+06
13C-PCB-194	2.89e+07	0.92	y	49:52	-	65.3							

Analyst: _____ Date: 8/30/18

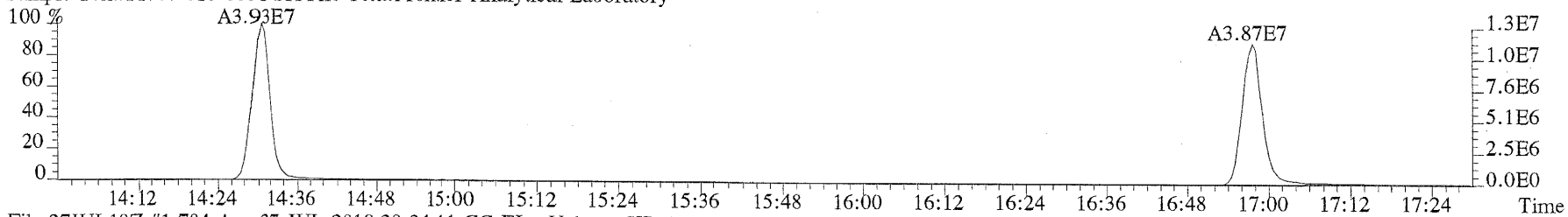
File:27JUL18Z #1-784 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



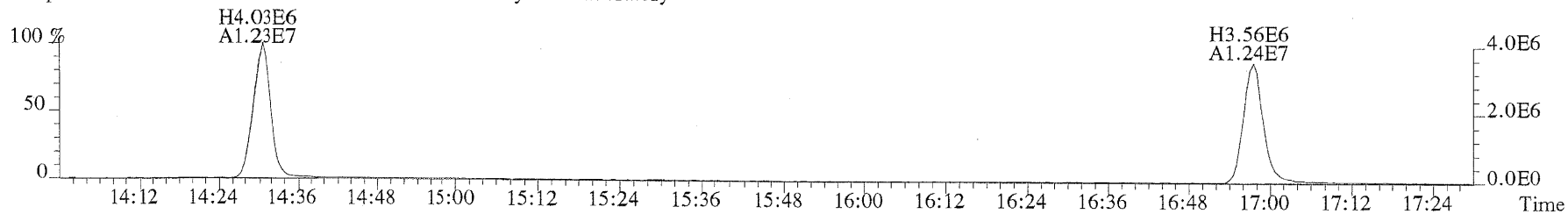
File:27JUL18Z #1-784 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



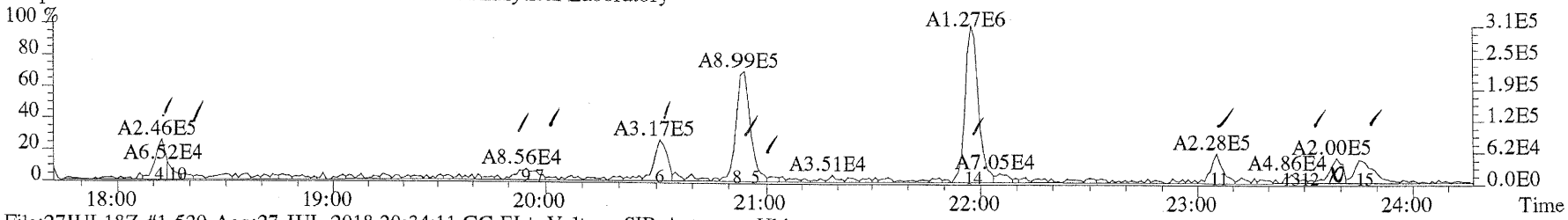
File:27JUL18Z #1-784 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



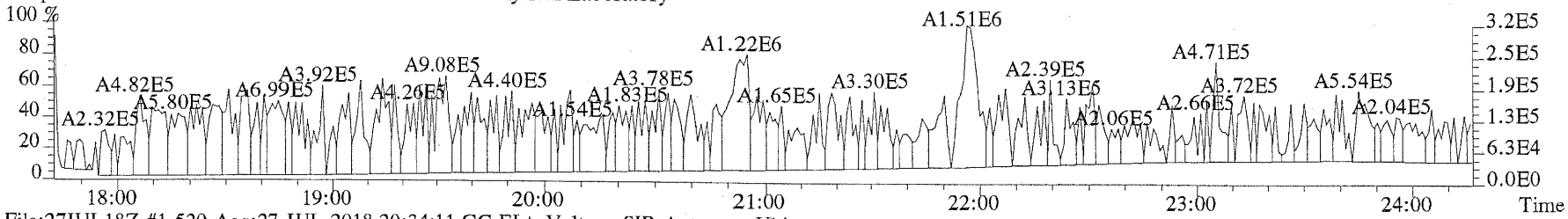
File:27JUL18Z #1-784 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



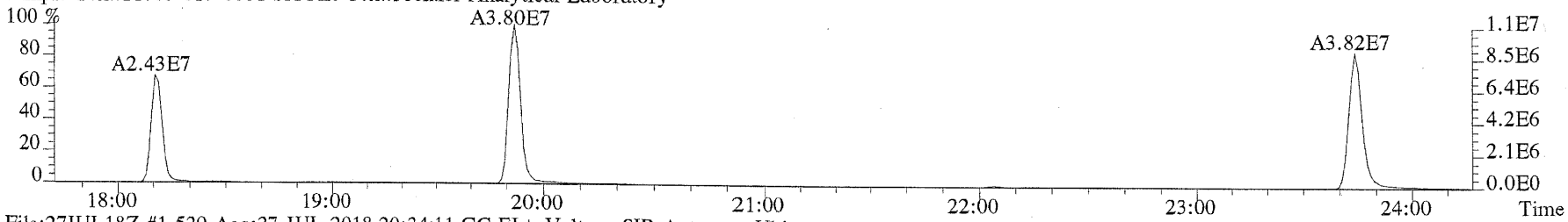
File:27JUL18Z #1-520 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



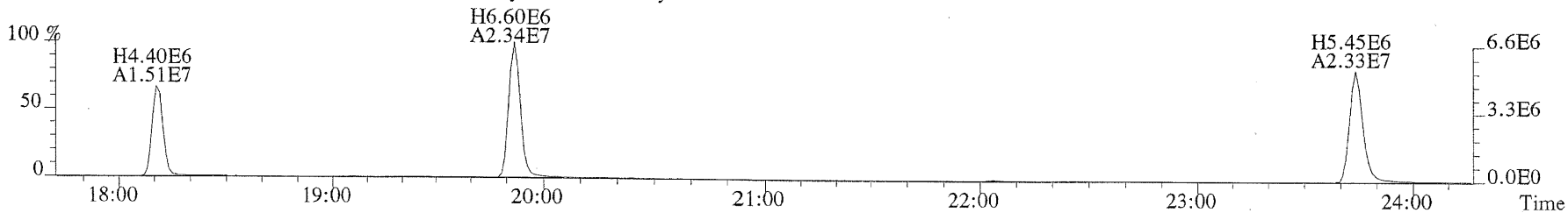
File:27JUL18Z #1-520 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



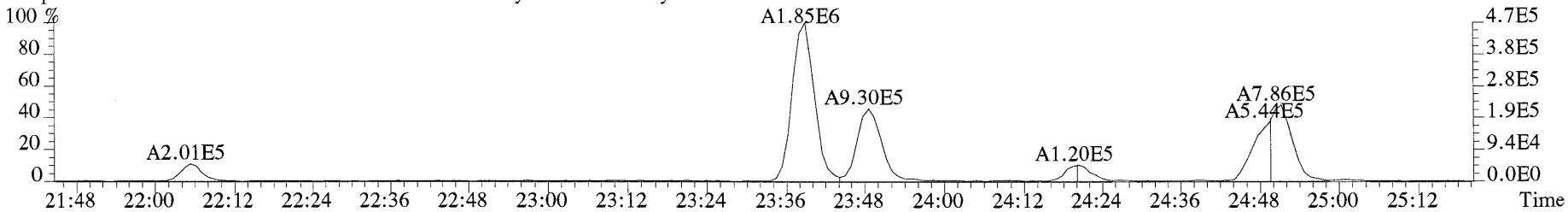
File:27JUL18Z #1-520 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



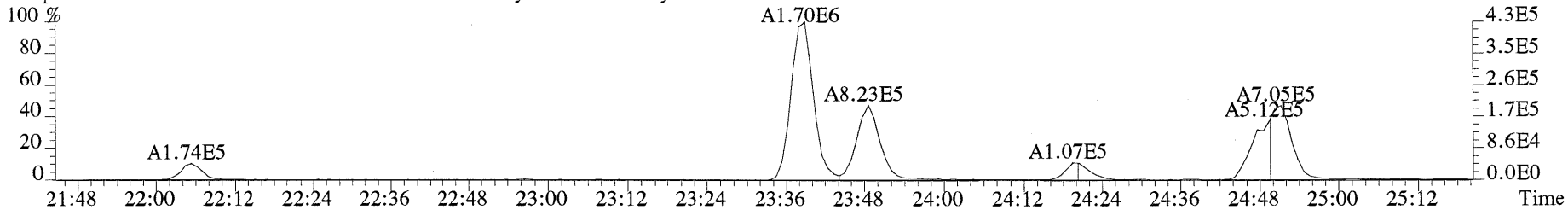
File:27JUL18Z #1-520 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



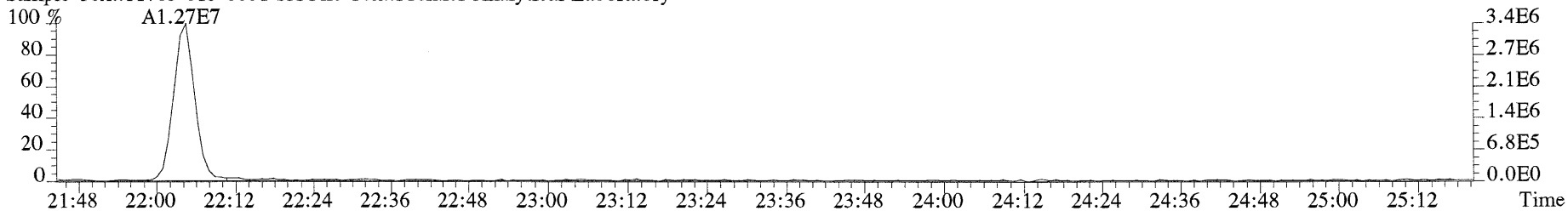
File:27JUL18Z #1-520 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



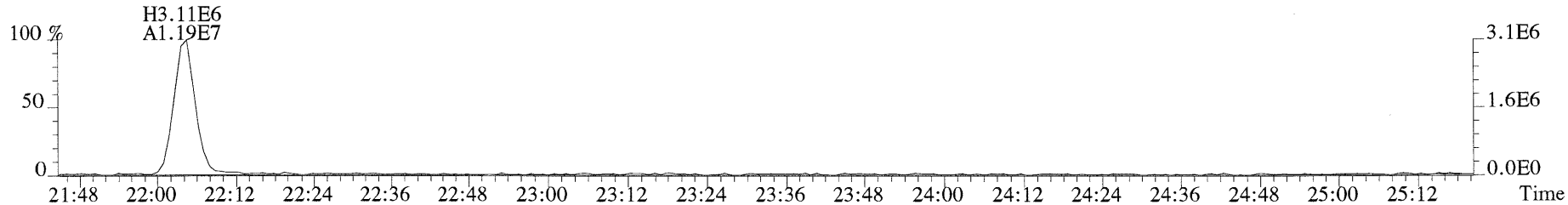
File:27JUL18Z #1-520 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



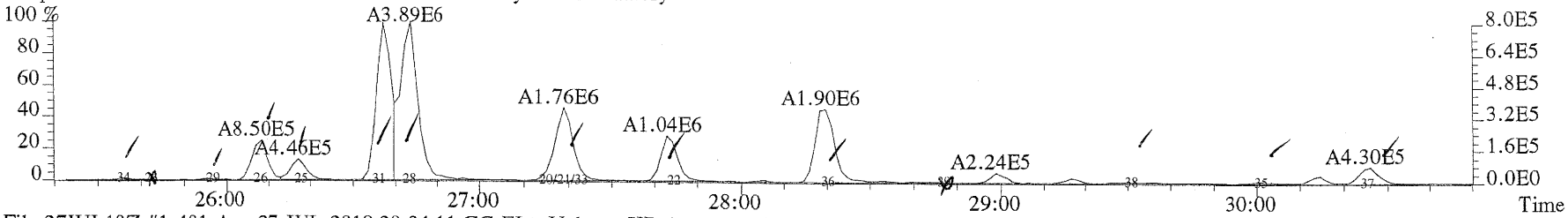
File:27JUL18Z #1-520 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



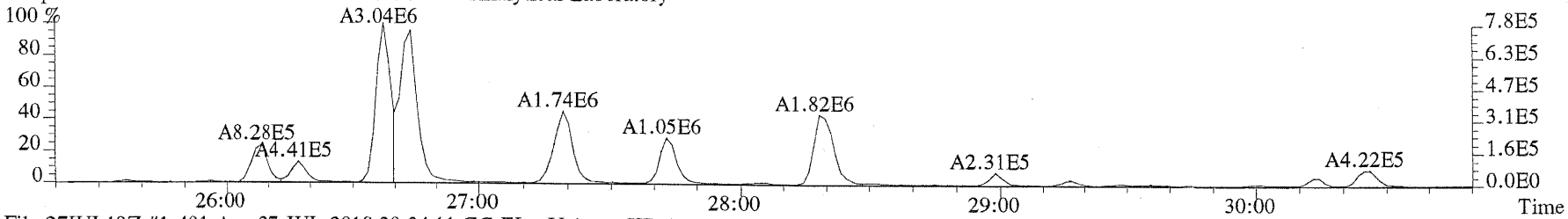
File:27JUL18Z #1-520 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



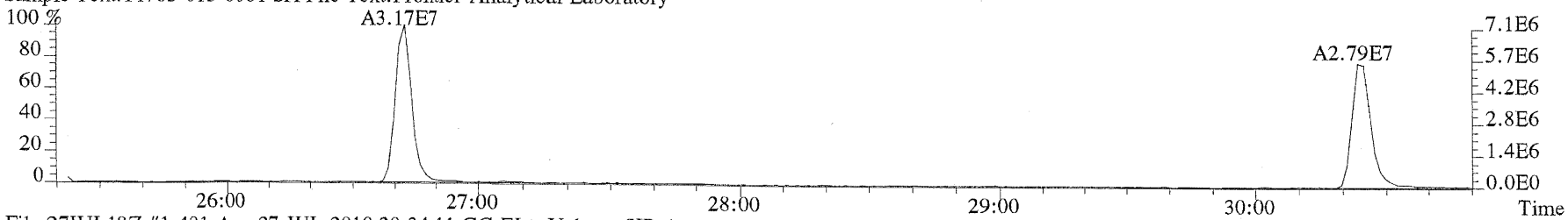
File:27JUL18Z #1-401 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



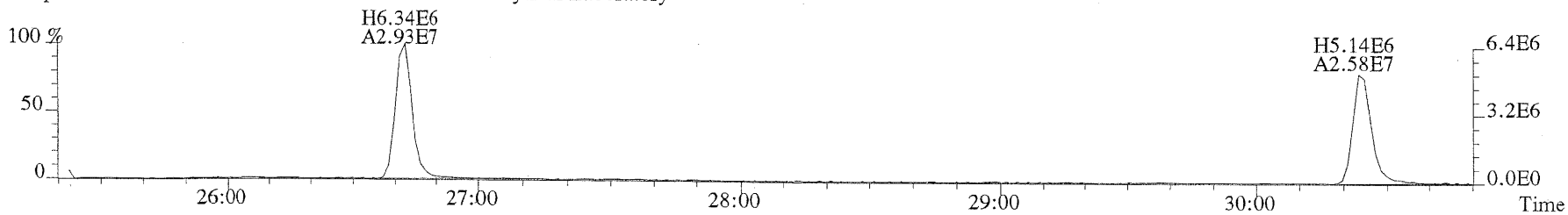
File:27JUL18Z #1-401 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



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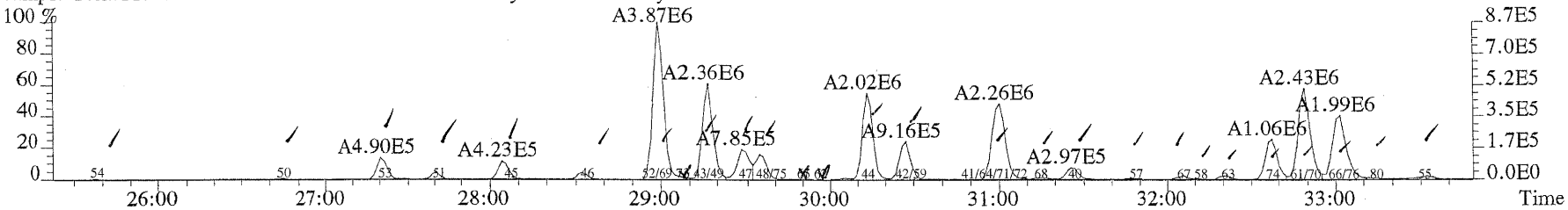
289.9224 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



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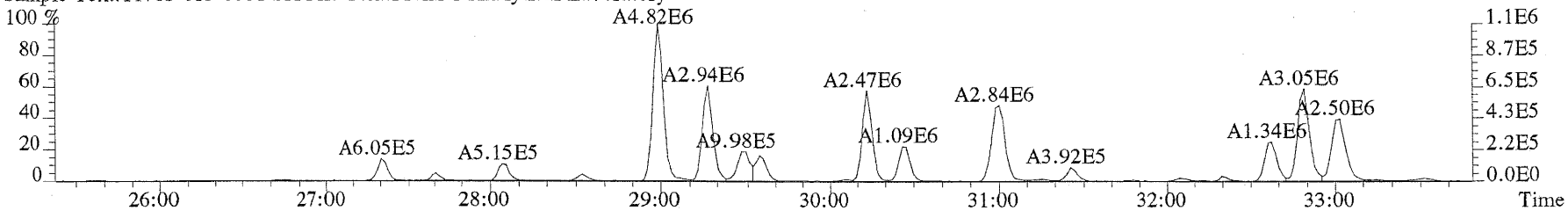
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



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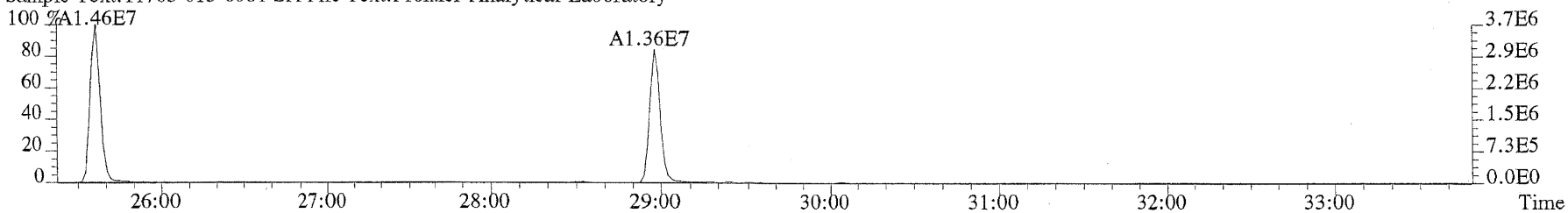
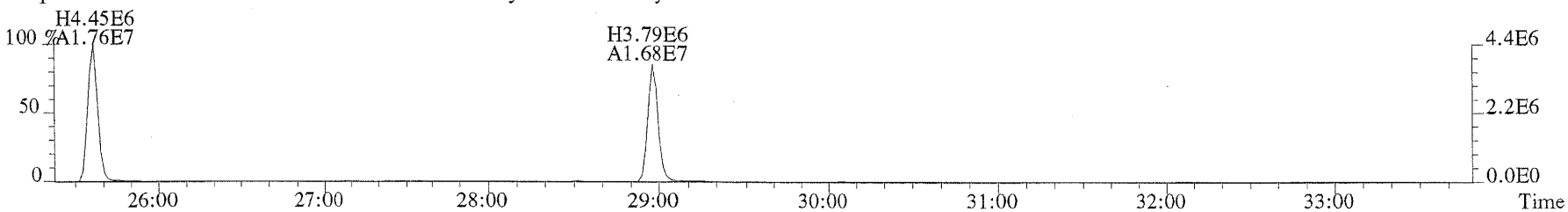
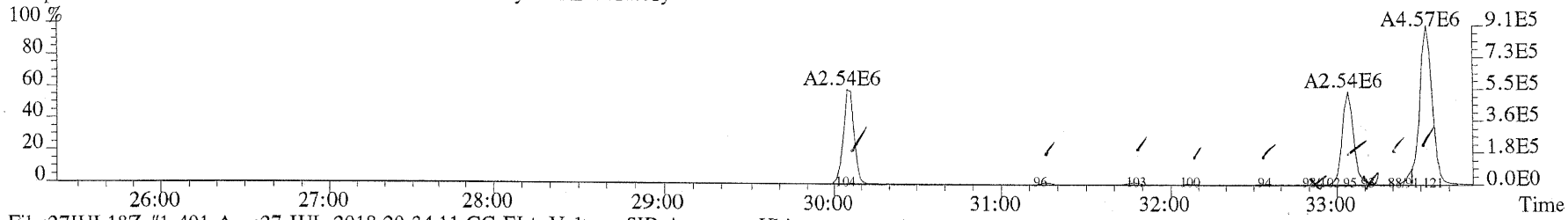
301.9626 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



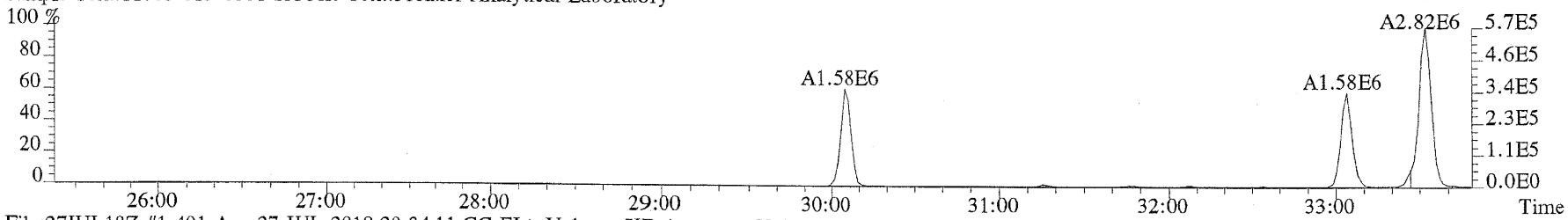
File:27JUL18Z #1-401 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-401 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



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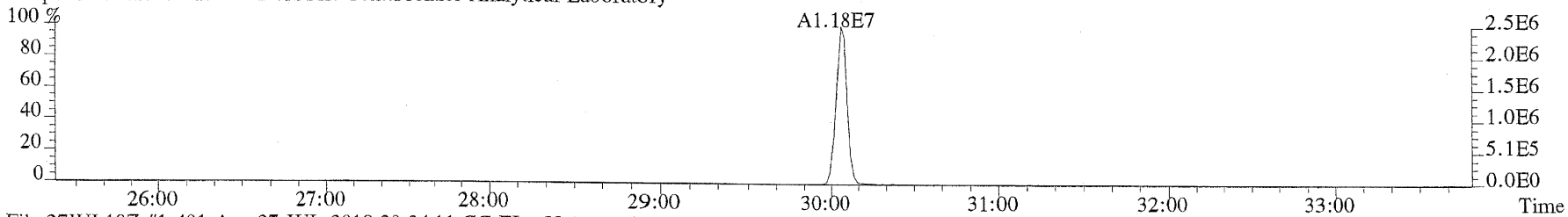
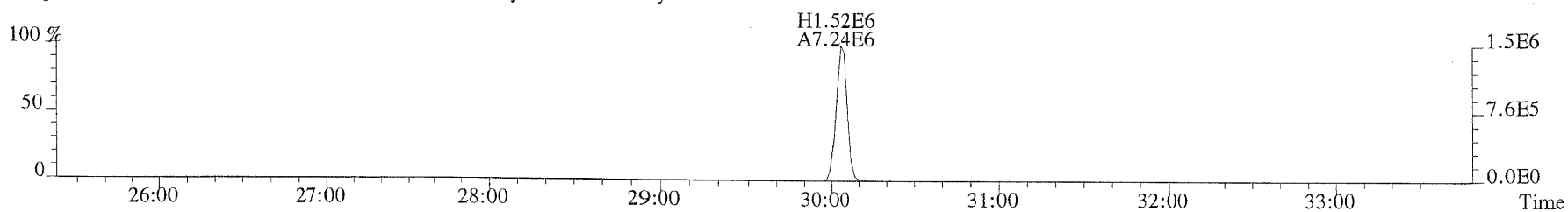
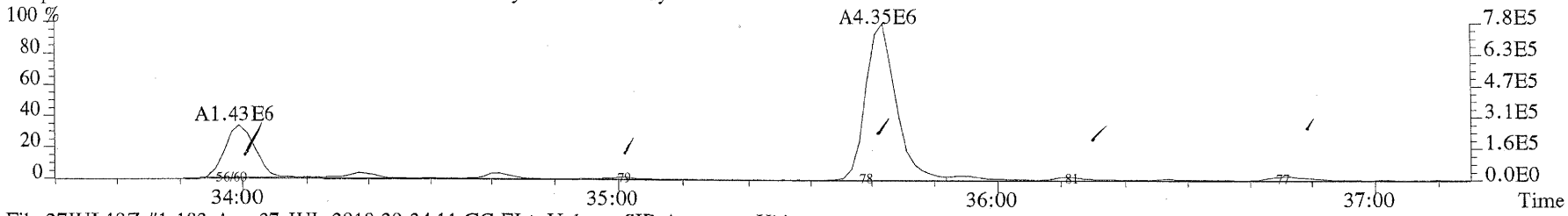
337.9207 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



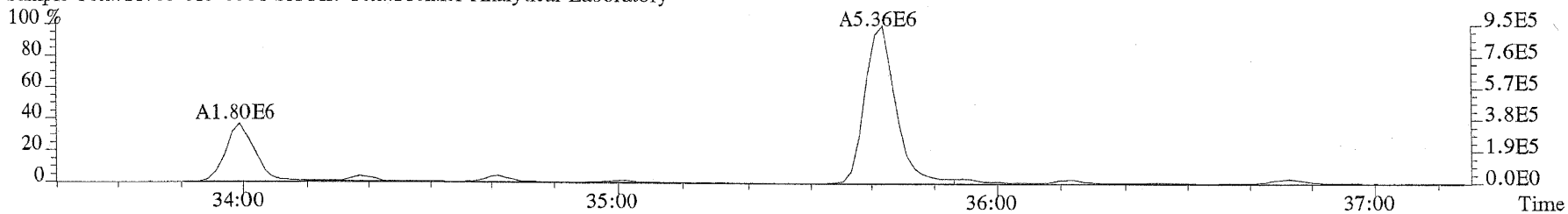
File:27JUL18Z #1-401 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



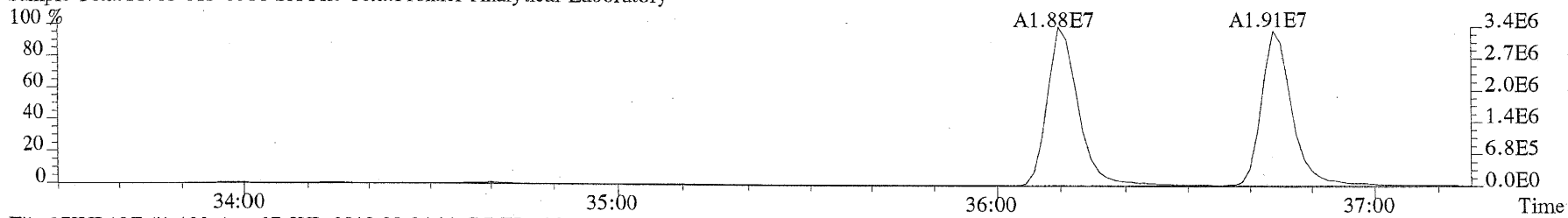
File:27JUL18Z #1-183 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



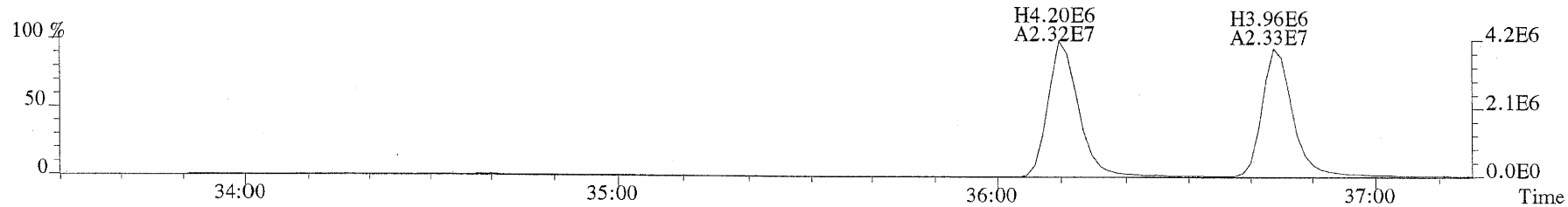
File:27JUL18Z #1-183 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



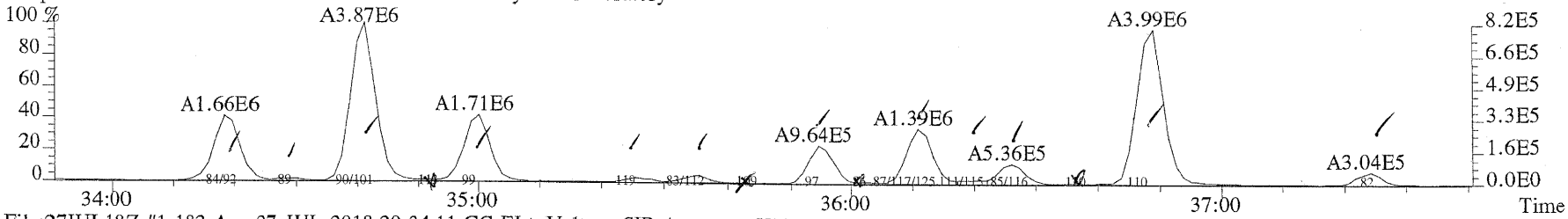
File:27JUL18Z #1-183 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



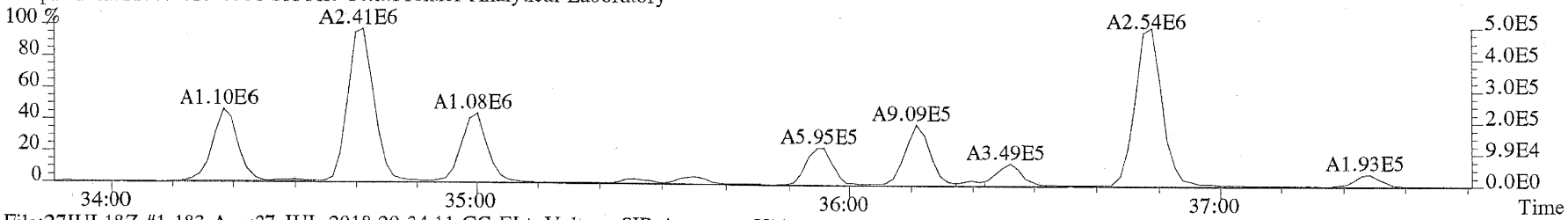
File:27JUL18Z #1-183 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



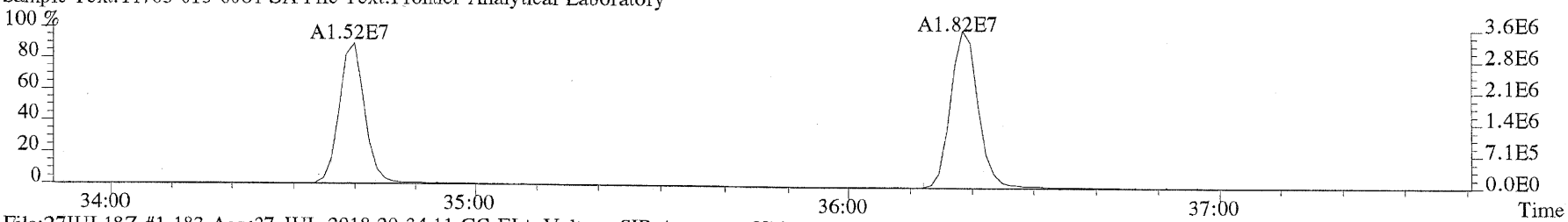
File:27JUL18Z #1-183 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



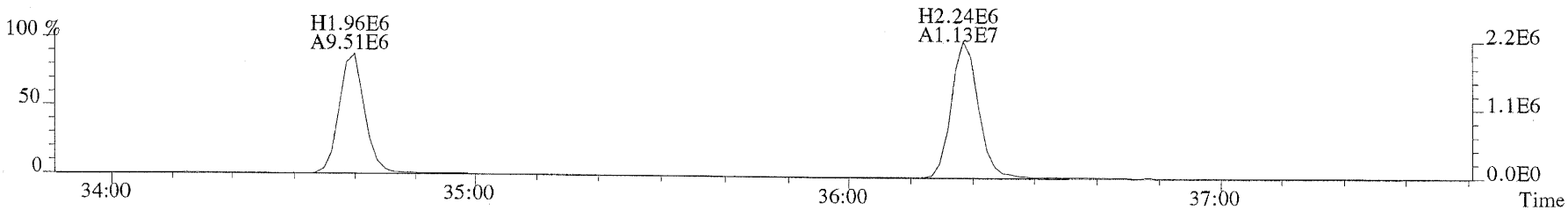
File:27JUL18Z #1-183 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



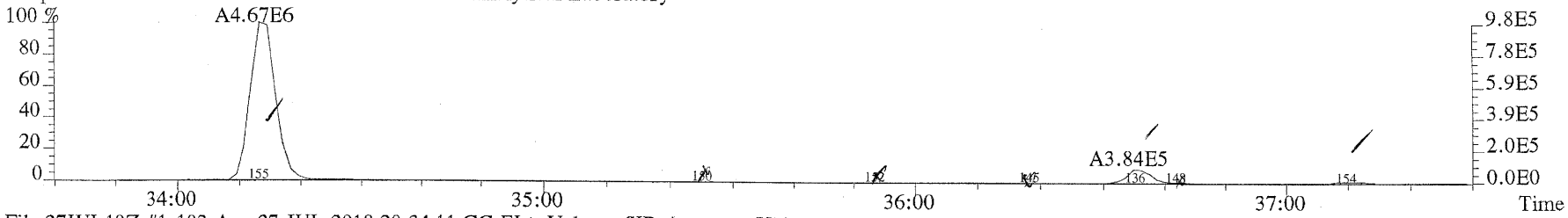
File:27JUL18Z #1-183 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



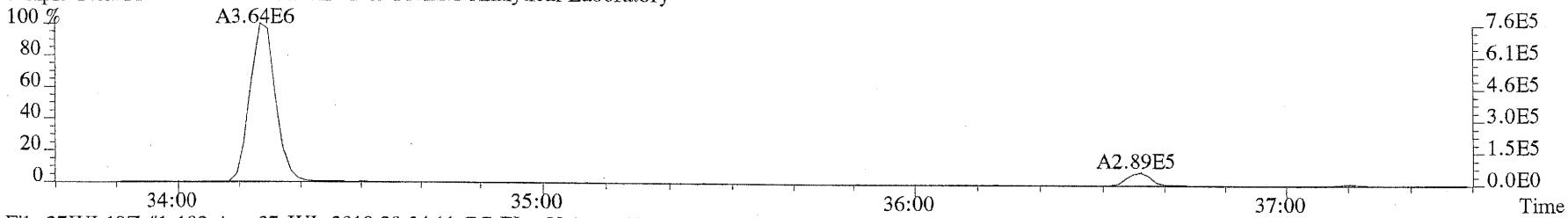
File:27JUL18Z #1-183 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



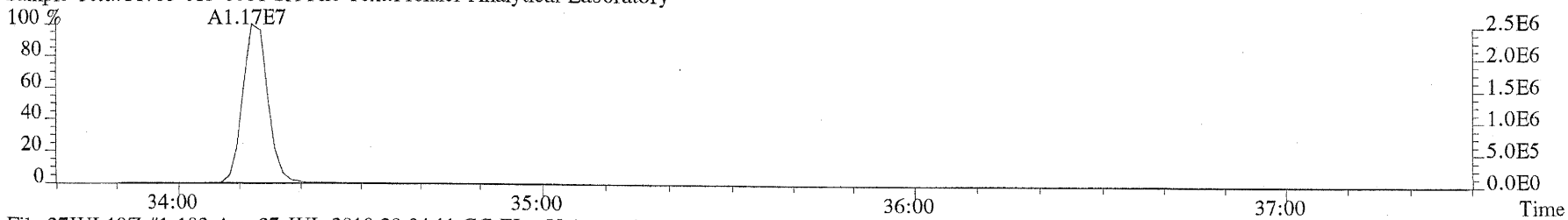
File:27JUL18Z #1-183 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



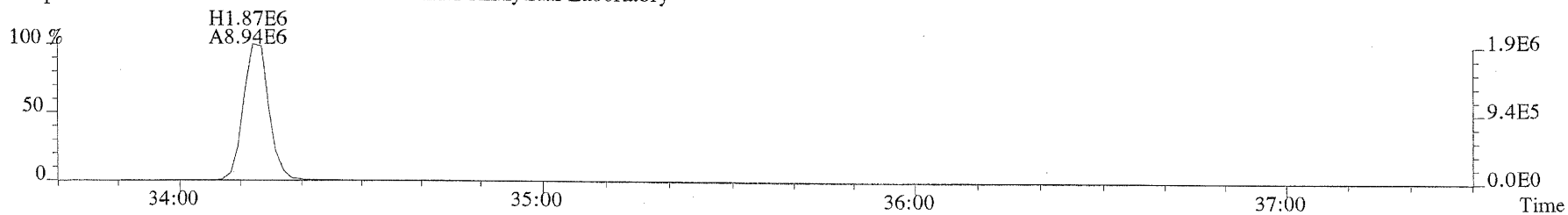
File:27JUL18Z #1-183 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



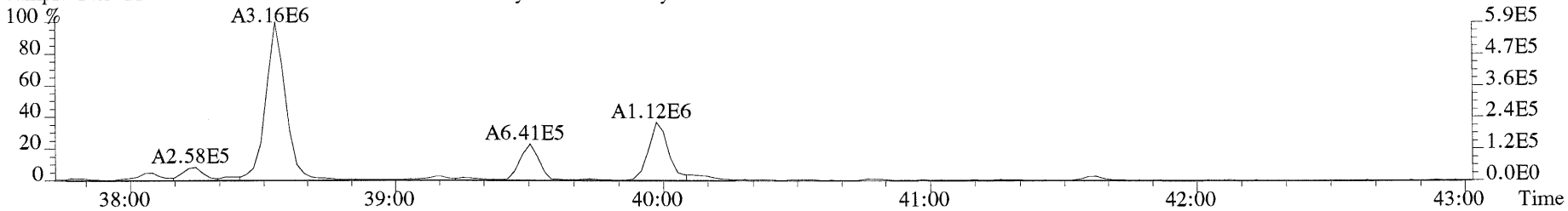
File:27JUL18Z #1-183 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



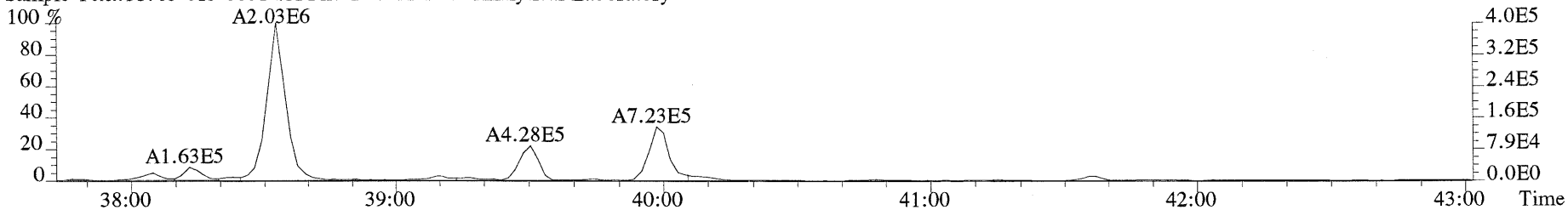
File:27JUL18Z #1-183 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



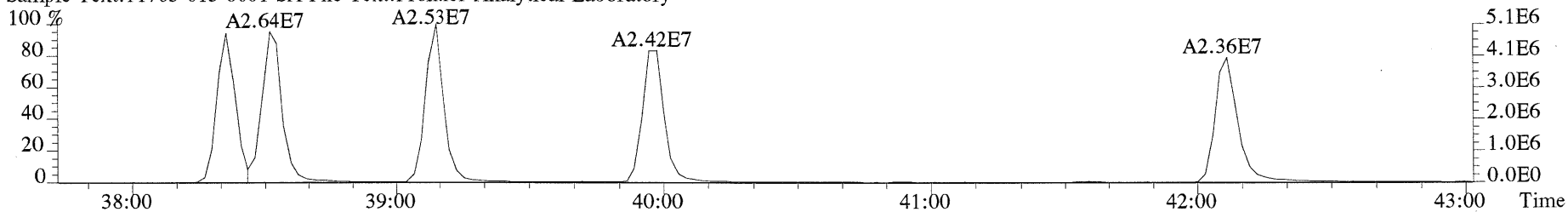
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



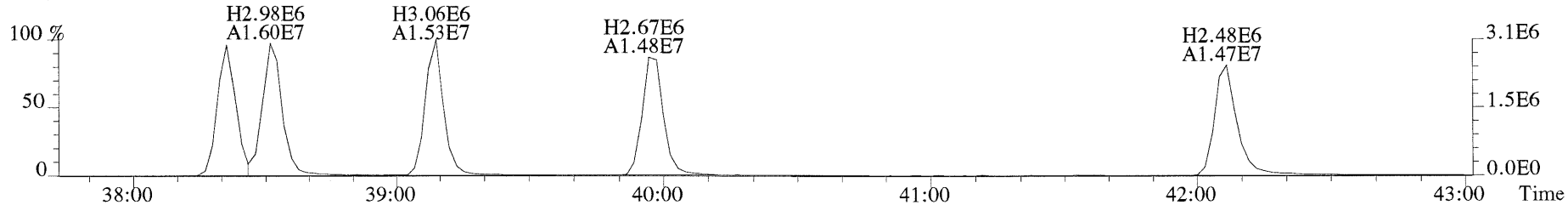
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



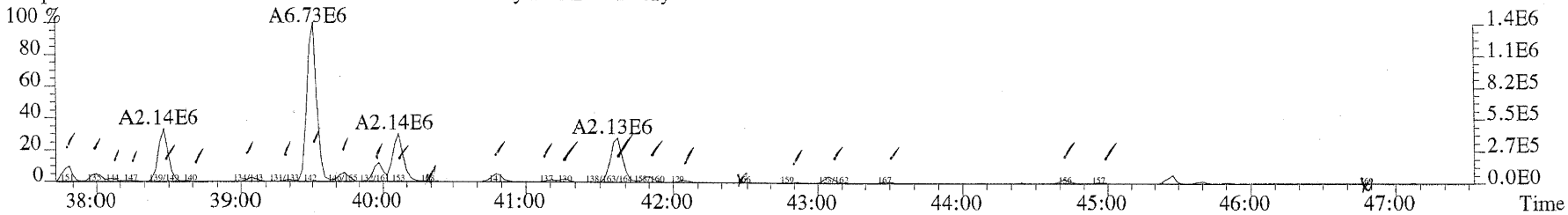
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



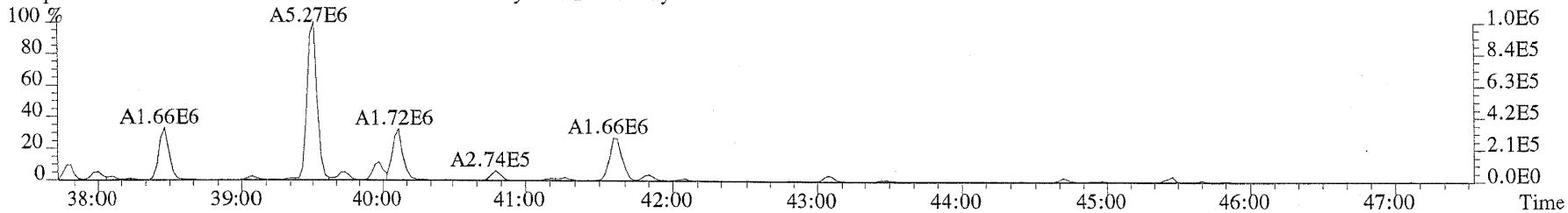
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



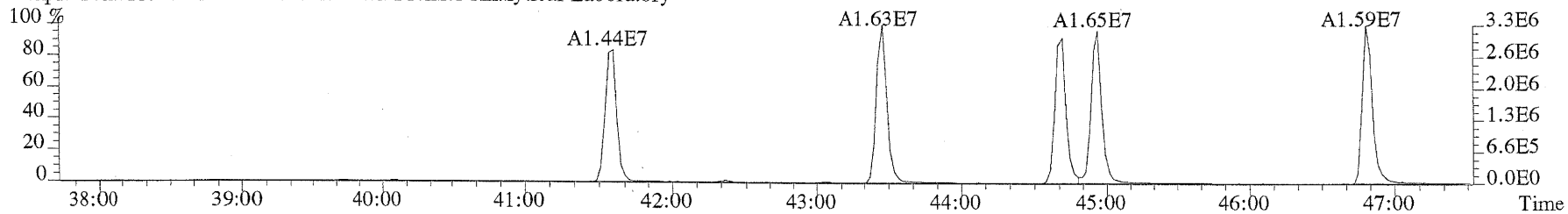
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



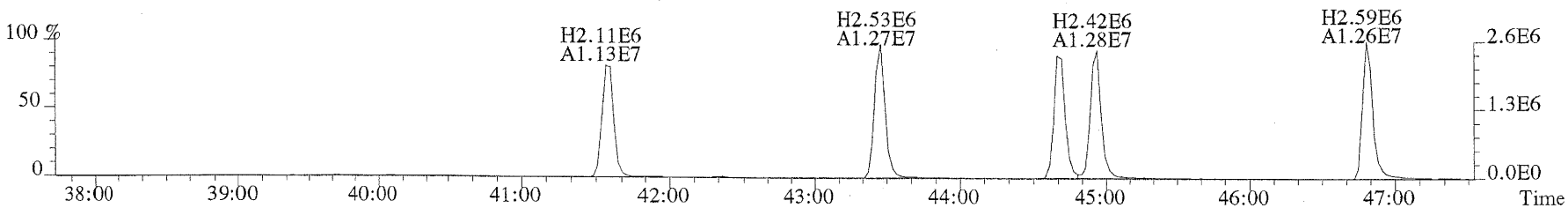
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



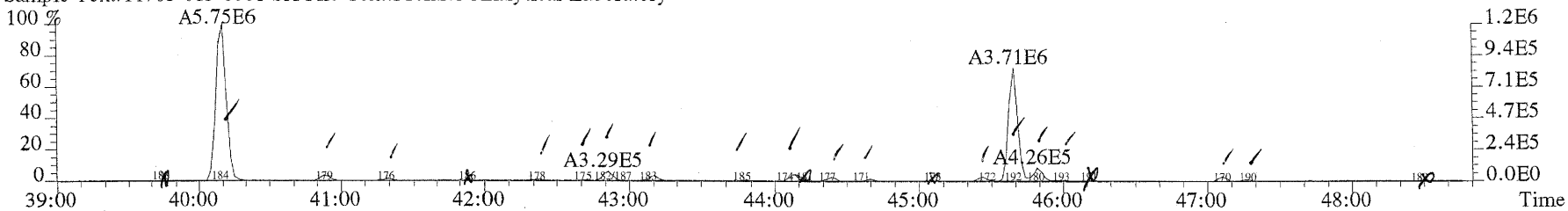
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



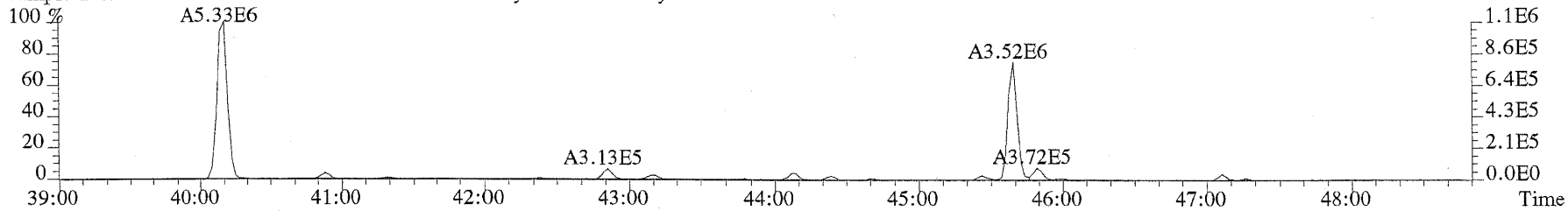
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



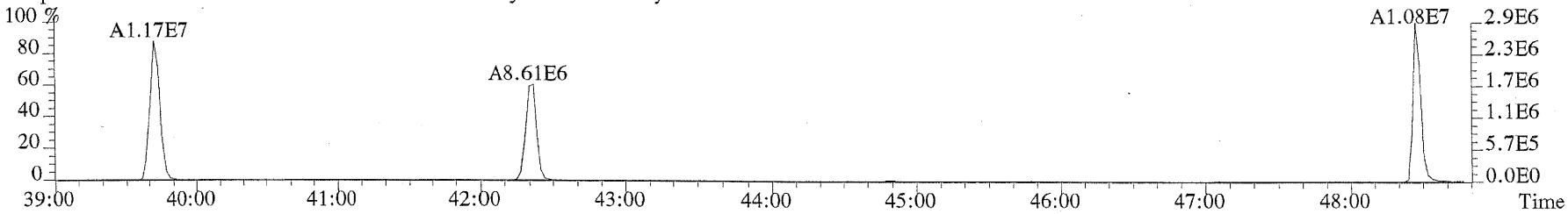
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



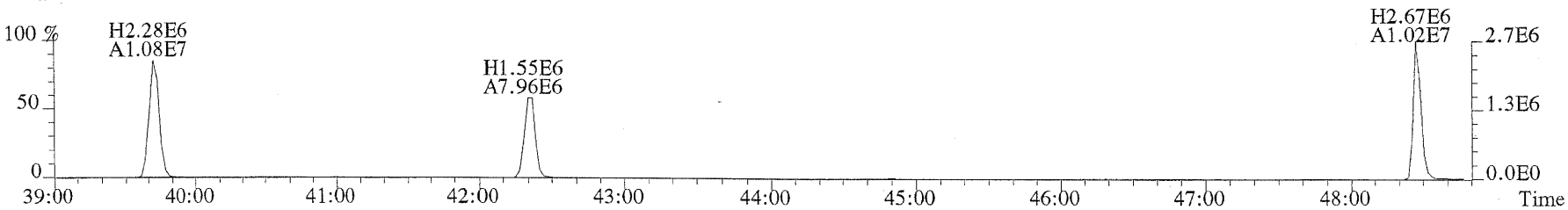
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



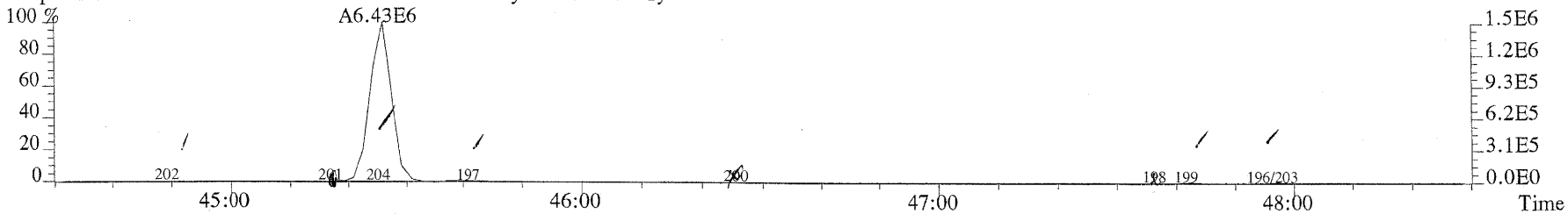
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



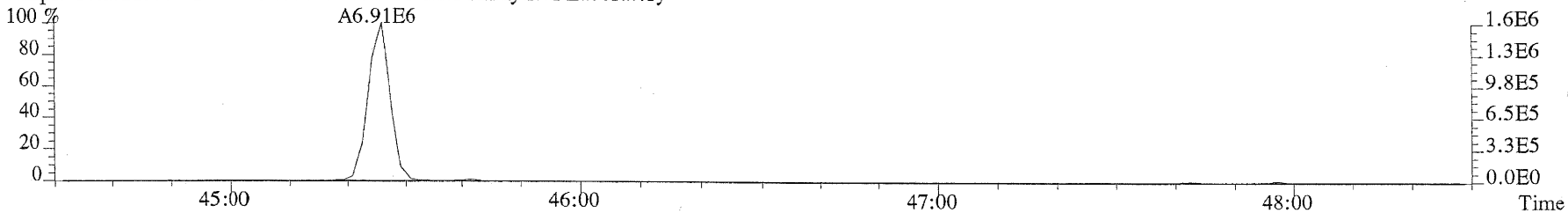
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



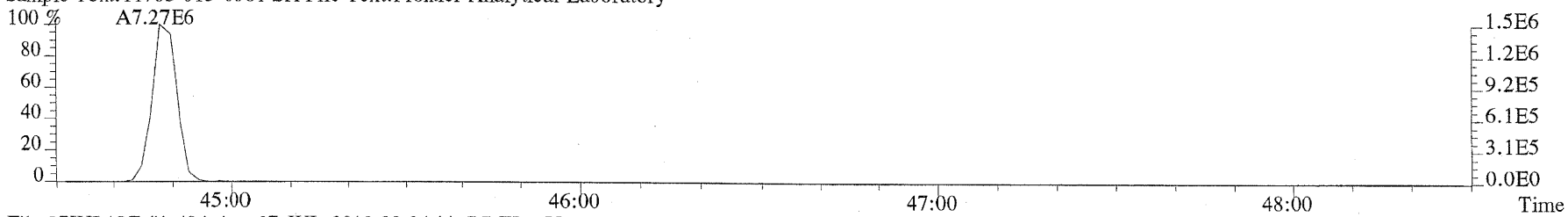
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



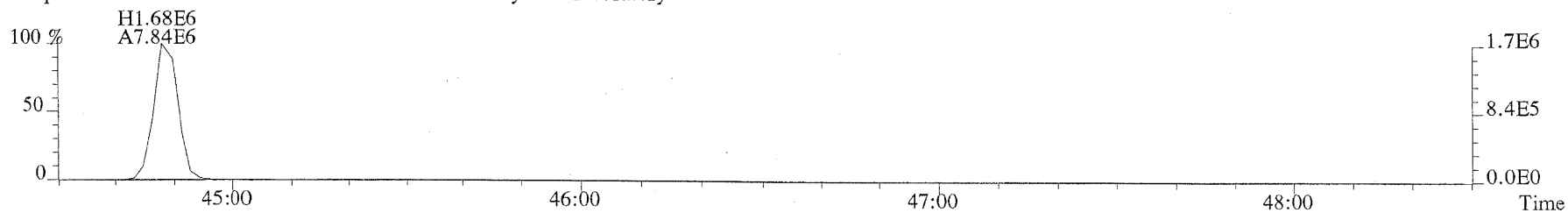
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



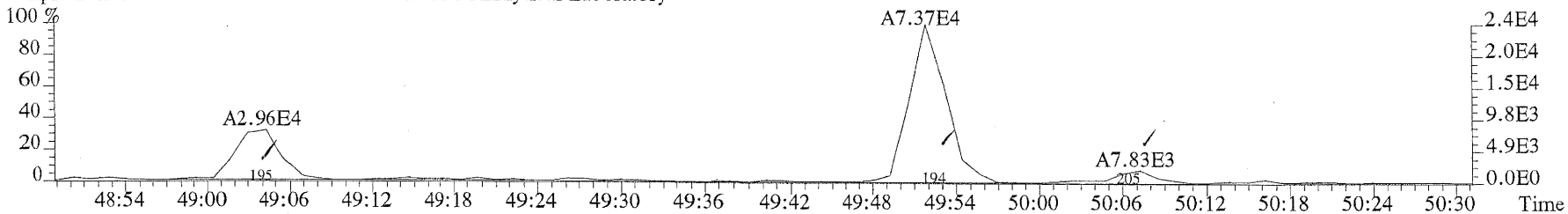
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



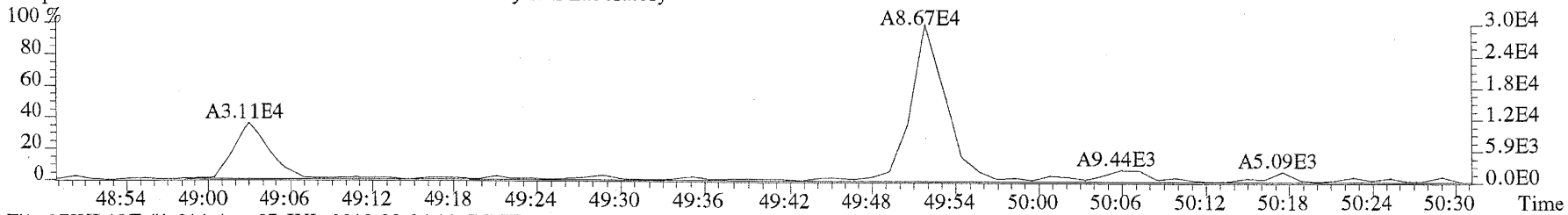
File:27JUL18Z #1-404 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



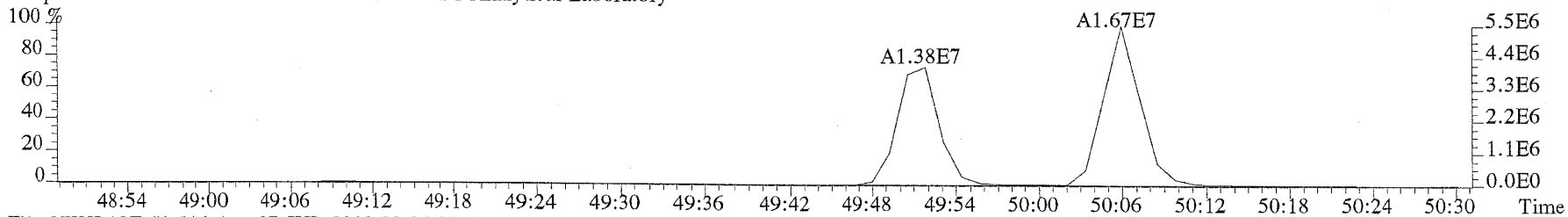
File:27JUL18Z #1-314 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



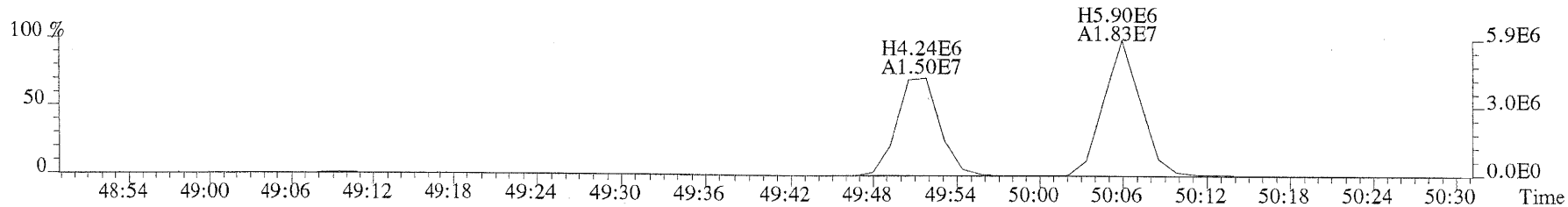
File:27JUL18Z #1-314 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



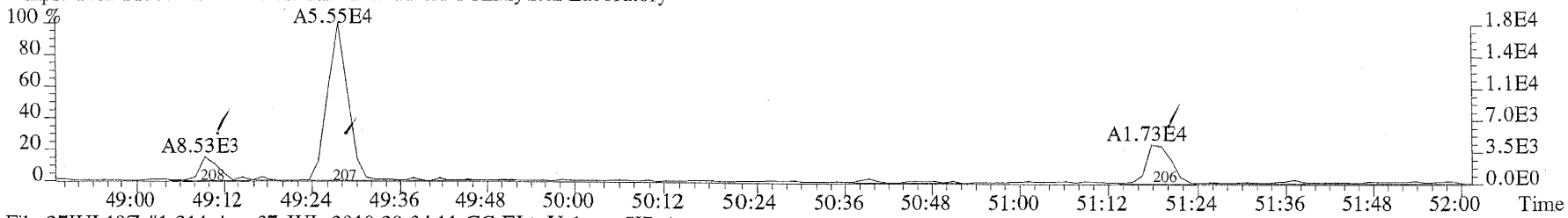
File:27JUL18Z #1-314 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



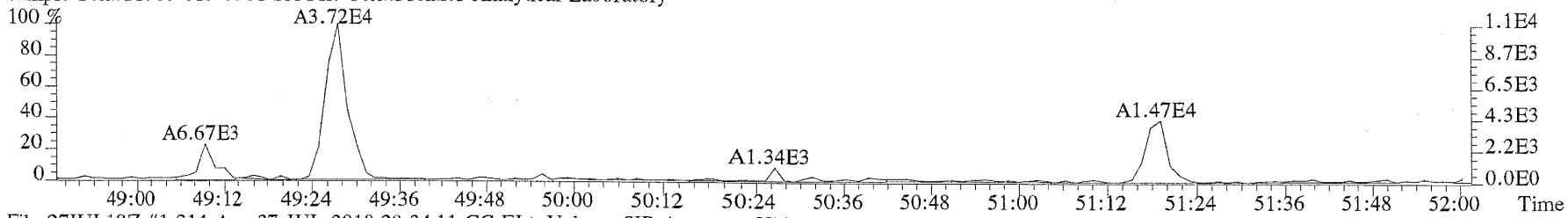
File:27JUL18Z #1-314 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



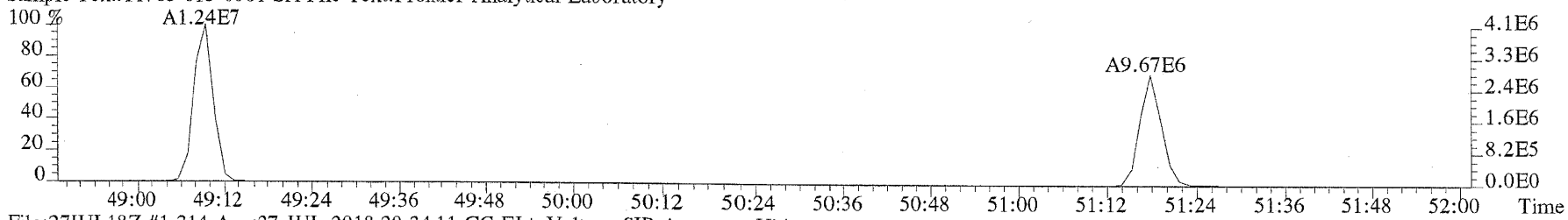
File:27JUL18Z #1-314 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



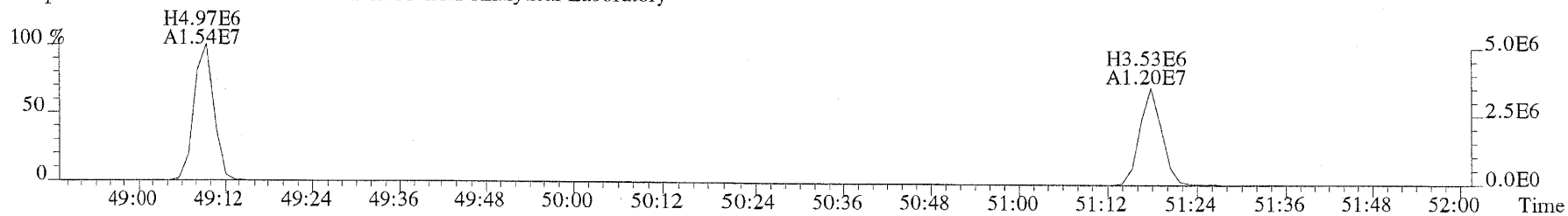
File:27JUL18Z #1-314 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



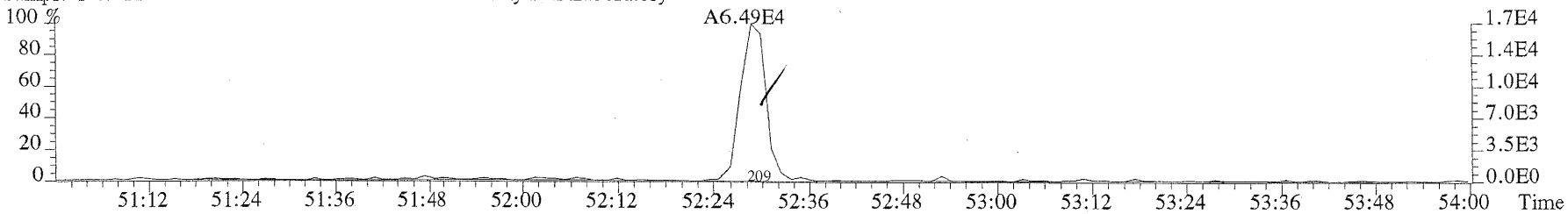
File:27JUL18Z #1-314 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



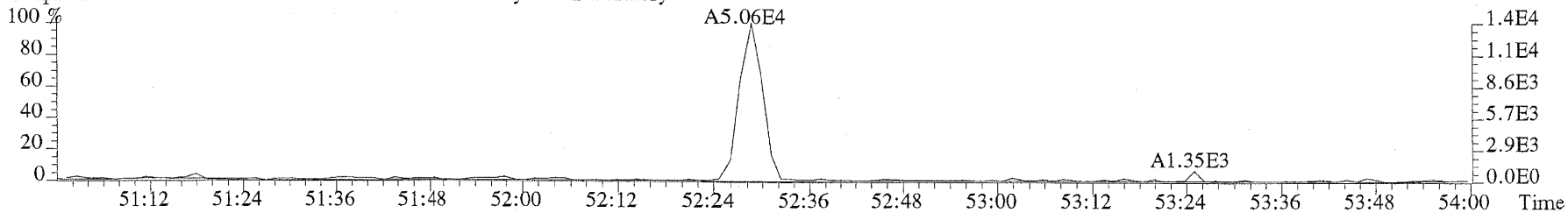
File:27JUL18Z #1-314 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



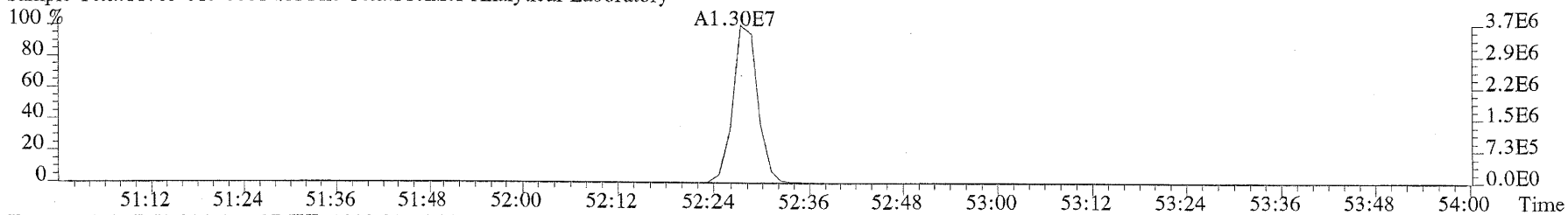
File:27JUL18Z #1-314 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



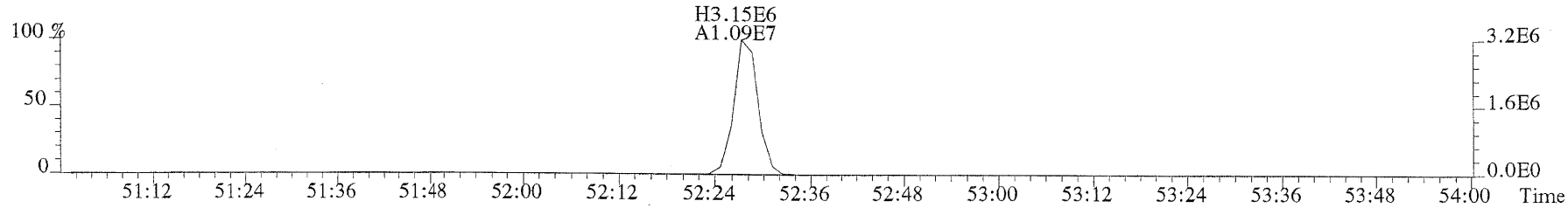
File:27JUL18Z #1-314 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 20:34:11 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11703-013-0001-SA File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

Data Filename: 04APR18Z

Analyte: 1668FAL4-4-4-18 Cal: 1668FAL4-4-4-18

Name	RRF	S. D.	%RSD	S1 RRF#1	S2 RRF#2	S3 RRF#3	S4 RRF#4	S5 RRF#5	S6 RRF#6
PCB-1	1.11	0.0262	2.37 %	1.13	1.08	1.10	1.08	1.10	1.15
13C-PCB-1	1.07	0.0363	3.41 %	1.06	1.07	1.06	1.05	1.02	1.13
PCB-3	1.13	0.0257	2.27 %	1.18	1.12	1.12	1.10	1.12	1.13
13C-PCB-3	1.03	0.0129	1.25 %	1.02	1.04	1.03	1.02	1.02	1.06
PCB-4	1.14	0.0264	2.31 %	1.16	1.19	1.14	1.12	1.12	1.13
13C-PCB-4	0.67	0.00899	1.33 %	0.66	0.67	0.68	0.67	0.69	0.68
PCB-15	1.10	0.0225	2.04 %	1.09	1.14	1.09	1.08	1.11	1.10
13C-PCB-15	1.03	0.0217	2.10 %	1.05	1.01	1.00	1.03	1.06	1.04
PCB-19	1.23	0.0474	3.86 %	1.31	1.26	1.18	1.21	1.22	1.20
13C-PCB-19	0.47	0.0195	4.14 %	0.49	0.46	0.47	0.43	0.48	0.48
13C-PCB-9	-	-	- %	-	-	-	-	-	-
PCB-37	1.26	0.0240	1.91 %	1.23	1.29	1.25	1.24	1.28	1.25
13C-PCB-37	1.40	0.0342	2.45 %	1.44	1.39	1.38	1.35	1.40	1.42
PCB-54	1.16	0.0261	2.26 %	1.19	1.13	1.19	1.14	1.15	1.14
13C-PCB-54	1.19	0.0287	2.42 %	1.19	1.18	1.22	1.13	1.20	1.19
PCB-104	1.22	0.0533	4.35 %	1.20	1.31	1.26	1.16	1.21	1.21
13C-PCB-104	0.80	0.0209	2.61 %	0.82	0.77	0.80	0.82	0.81	0.77
13C-PCB-28	1.53	0.0891	5.84 %	1.58	1.50	1.65	1.43	1.43	1.58
13C-PCB-52	-	-	- %	-	-	-	-	-	-
PCB-81	1.17	0.0376	3.21 %	1.21	1.15	1.13	1.16	1.22	1.14
13C-PCB-81	1.37	0.0667	4.86 %	1.28	1.36	1.34	1.39	1.37	1.48
PCB-77	1.11	0.0303	2.73 %	1.08	1.10	1.13	1.11	1.16	1.07
13C-PCB-77	1.41	0.0903	6.43 %	1.38	1.34	1.34	1.34	1.48	1.55
PCB-155	1.14	0.0343	3.00 %	1.08	1.16	1.18	1.14	1.15	1.14
13C-PCB-155	1.02	0.0260	2.55 %	0.97	1.04	1.04	1.03	1.01	1.03
13C-PCB-111	1.26	0.0241	1.91 %	1.23	1.27	1.29	1.24	1.27	1.27
13C-PCB-101	-	-	- %	-	-	-	-	-	-
PCB-123	1.12	0.0436	3.88 %	1.20	1.14	1.14	1.08	1.10	1.09
13C-PCB-123	1.36	0.0568	4.18 %	1.28	1.38	1.35	1.32	1.44	1.38
PCB-118	1.16	0.0551	4.76 %	1.26	1.13	1.15	1.13	1.17	1.11
13C-PCB-118	1.42	0.0459	3.22 %	1.38	1.41	1.40	1.40	1.51	1.44
PCB-114	1.13	0.0379	3.37 %	1.12	1.17	1.17	1.08	1.12	1.09
13C-PCB-114	1.38	0.0520	3.77 %	1.33	1.38	1.34	1.35	1.44	1.45
PCB-105	1.11	0.0135	1.22 %	1.12	1.12	1.11	1.09	1.12	1.10
13C-PCB-105	1.38	0.0477	3.46 %	1.34	1.34	1.35	1.36	1.46	1.41
PCB-126	1.11	0.0514	4.62 %	1.20	1.13	1.08	1.11	1.10	1.05
13C-PCB-126	1.29	0.0657	5.11 %	1.24	1.24	1.26	1.24	1.39	1.35
PCB-167	1.05	0.0291	2.77 %	1.00	1.08	1.06	1.03	1.07	1.04
13C-PCB-167	1.23	0.0370	3.00 %	1.21	1.20	1.23	1.21	1.30	1.25
PCB-156	1.08	0.0305	2.83 %	1.08	1.02	1.09	1.08	1.12	1.07
13C-PCB-156	1.19	0.0378	3.17 %	1.16	1.17	1.18	1.17	1.26	1.20
PCB-157	1.06	0.0230	2.18 %	1.08	1.04	1.03	1.05	1.08	1.05
13C-PCB-157	1.24	0.0597	4.83 %	1.21	1.19	1.19	1.22	1.35	1.26
PCB-169	1.06	0.0490	4.62 %	1.14	1.08	1.06	1.03	1.06	1.00
13C-PCB-169	1.15	0.0676	5.89 %	1.09	1.11	1.12	1.15	1.28	1.15
PCB-188	1.14	0.0632	5.53 %	1.20	1.17	1.22	1.07	1.09	1.11
13C-PCB-188	1.13	0.0566	5.02 %	1.16	1.08	1.05	1.16	1.20	1.12
PCB-189	1.12	0.0705	6.31 %	1.14	1.14	1.18	1.12	1.14	0.98
13C-PCB-189	0.94	0.0496	5.25 %	0.90	0.90	0.93	0.93	1.00	1.01
PCB-202	1.09	0.0745	6.84 %	1.22	1.09	1.07	1.08	1.09	0.98
13C-PCB-202	0.77	0.0126	1.63 %	0.76	0.77	0.79	0.76	0.78	0.77
13C-PCB-178	0.76	0.0192	2.52 %	0.74	0.76	0.78	0.74	0.76	0.79
13C-PCB-138	-	-	- %	-	-	-	-	-	-

PCB-205	1.04	0.0391	3.75	%	1.04	1.04	1.05	1.05	1.10	0.98
13C-PCB-205	1.32	0.0399	3.03	%	1.26	1.31	1.37	1.29	1.34	1.34
PCB-208	0.96	0.0305	3.17	%	0.97	0.94	1.01	0.94	0.98	0.94
13C-PCB-208	1.33	0.0373	2.81	%	1.37	1.28	1.34	1.34	1.36	1.29
PCB-206	0.97	0.0388	3.98	%	0.95	1.00	1.03	0.93	0.99	0.94
13C-PCB-206	0.94	0.0329	3.52	%	0.95	0.90	0.93	0.97	0.97	0.90
PCB-209	1.17	0.101	8.64	%	1.31	1.17	1.18	1.17	1.21	1.00
13C-PCB-209	1.04	0.0478	4.59	%	0.98	1.08	1.11	1.02	1.01	1.06
13C-PCB-194	-	-	-	%	-	-	-	-	-	-

Analyst: [illegible] Date: 4/5/18

Run #1 Filename 04APR18Z S: 1 Acquired: 4-APR-18 16:40:39 Cal: 1668FAL4-4-4-18
Client ID: ST040418Z0 Analyte: FAL ID: 1668 CS0 R170821A

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	0.20	1.20e+05	3.21	y	14:35	-	1.13	y
2	IS/RT	13C-PCB-1	100.00	5.32e+07	3.18	y	14:34	-	1.06	y
3	Unk	PCB-3	0.20	1.21e+05	3.00	y	17:01	-	1.18	y
4	IS/RT	13C-PCB-3	100.00	5.14e+07	3.22	y	17:00	-	1.02	y
5	Unk	PCB-4	0.20	7.75e+04	1.44	y	18:17	-	1.16	y
6	IS/RT	13C-PCB-4	100.00	3.33e+07	1.58	y	18:15	-	0.664	y
7	Unk	PCB-15	0.20	1.14e+05	1.40	y	23:48	-	1.09	y
8	IS/RT	13C-PCB-15	100.00	5.26e+07	1.62	y	23:47	-	1.05	y
9	Unk	PCB-19	0.20	6.44e+04	1.10	y	22:10	-	1.31	y
10	IS/RT	13C-PCB-19	100.00	2.46e+07	1.10	y	22:09	-	0.489	y
11	RS	13C-PCB-9	100.00	5.03e+07	1.62	y	19:56	5.03e+05	-	n
12	Unk	PCB-37	0.20	1.00e+05	1.12	y	30:26	-	1.23	y
13	IS	13C-PCB-37	100.00	4.07e+07	1.08	y	30:26	-	1.44	y
14	Unk	PCB-54	0.20	7.96e+04	0.76	y	25:43	-	1.19	y
15	IS/RT	13C-PCB-54	100.00	3.35e+07	0.81	y	25:41	-	1.19	y
16	Unk	PCB-104	0.20	5.53e+04	1.71	y	30:09	-	1.20	y
17	IS	13C-PCB-104	100.00	2.30e+07	1.62	y	30:08	-	0.816	y
18	C/Up	13C-PCB-28	100.00	4.47e+07	1.07	y	26:46	-	1.58	y
19	RS	13C-PCB-52	100.00	2.82e+07	0.79	y	29:01	2.82e+05	-	n
20	Unk	PCB-81	0.20	7.67e+04	0.68	y	36:13	-	1.21	y
21	IS	13C-PCB-81	100.00	3.17e+07	0.79	y	36:12	-	1.28	y
22	Unk	PCB-77	0.20	7.39e+04	0.72	y	36:46	-	1.08	y
23	IS/RT	13C-PCB-77	100.00	3.42e+07	0.79	y	36:45	-	1.38	y
24	Unk	PCB-155	0.20	5.21e+04	1.11	y	34:20	-	1.08	y
25	IS	13C-PCB-155	100.00	2.41e+07	1.26	y	34:17	-	0.969	y
26	C/Up	13C-PCB-111	100.00	3.04e+07	1.60	y	36:22	-	1.23	y
27	RS	13C-PCB-101	100.00	2.48e+07	1.59	y	34:44	2.48e+05	-	n
28	Unk	PCB-123	0.20	7.25e+04	1.32	y	38:26	-	1.20	y
29	IS	13C-PCB-123	100.00	3.03e+07	1.59	y	38:24	-	1.28	y
30	Unk	PCB-118	0.20	8.29e+04	1.40	y	38:36	-	1.26	y
31	IS	13C-PCB-118	100.00	3.28e+07	1.62	y	38:34	-	1.38	y
32	Unk	PCB-114	0.20	7.02e+04	1.51	y	39:12	-	1.12	y
33	IS	13C-PCB-114	100.00	3.14e+07	1.62	y	39:12	-	1.33	y
34	Unk	PCB-105	0.20	7.13e+04	1.57	y	40:01	-	1.12	y
35	IS	13C-PCB-105	100.00	3.17e+07	1.61	y	39:60	-	1.34	y
36	Unk	PCB-126	0.20	7.07e+04	1.40	y	42:08	-	1.20	y
37	IS	13C-PCB-126	100.00	2.94e+07	1.59	y	42:08	-	1.24	y
38	Unk	PCB-167	0.20	5.76e+04	1.33	y	43:30	-	1.00	y
39	IS	13C-PCB-167	100.00	2.87e+07	1.27	y	43:30	-	1.21	y
40	Unk	PCB-156	0.20	5.93e+04	1.14	y	44:45	-	1.08	y
41	IS	13C-PCB-156	100.00	2.75e+07	1.26	y	44:43	-	1.16	y
42	Unk	PCB-157	0.20	6.25e+04	1.39	y	44:59	-	1.08	y
43	IS	13C-PCB-157	100.00	2.88e+07	1.27	y	44:59	-	1.21	y
44	Unk	PCB-169	0.20	5.92e+04	1.37	y	46:51	-	1.14	y
45	IS	13C-PCB-169	100.00	2.58e+07	1.27	y	46:50	-	1.09	y
46	Unk	PCB-188	0.20	6.62e+04	1.14	y	39:50	-	1.20	y
47	IS	13C-PCB-188	100.00	2.75e+07	1.06	y	39:48	-	1.16	y
48	Unk	PCB-189	0.20	4.91e+04	0.95	y	48:30	-	1.14	y
49	IS	13C-PCB-189	100.00	2.14e+07	1.05	y	48:28	-	0.905	y
50	Unk	PCB-202	0.20	4.39e+04	0.77	y	44:56	-	1.22	y
51	IS	13C-PCB-202	100.00	1.81e+07	0.92	y	44:54	-	0.762	y
52	C/Up	13C-PCB-178	100.00	1.76e+07	1.05	y	42:26	-	0.744	y
53	RS	13C-PCB-138	100.00	2.37e+07	1.27	y	41:39	2.37e+05	-	n

54	Unk	PCB-205	0.20	5.42e+04	1.02	y	50:10	-	1.04	y
55	IS	13C-PCB-205	100.00	2.62e+07	0.91	y	50:08	-	1.26	y
56	Unk	PCB-208	0.20	5.50e+04	1.27	y	49:13	-	0.968	y
57	IS	13C-PCB-208	100.00	2.84e+07	0.80	y	49:13	-	1.37	y
58	Unk	PCB-206	0.20	3.77e+04	1.28	y	51:22	-	0.954	y
59	IS	13C-PCB-206	100.00	1.98e+07	0.79	y	51:20	-	0.952	y
60	Unk	PCB-209	0.20	5.36e+04	1.18	y	52:32	-	1.31	y
61	IS	13C-PCB-209	100.00	2.04e+07	1.18	y	52:31	-	0.982	y
62	RS	13C-PCB-194	100.00	2.08e+07	0.91	y	49:53	2.08e+05	-	n

Analyst: _____ Date: 4/5/18

Run #2 Filename 04APR18Z S: 2 Acquired: 4-APR-18 17:38:59 Cal: 1668FAL4-4-4-18
Client ID: ST040418Z1 Analyte: FAL ID: 1668 CS1 R170213A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	1.00	2.06e+05	3.14 y	14:36	-	1.08	y
2	IS/RT	13C-PCB-1	100.00	1.91e+07	3.21 y	14:35	-	1.07	y
3	Unk	PCB-3	1.00	2.06e+05	3.02 y	17:02	-	1.12	y
4	IS/RT	13C-PCB-3	100.00	1.84e+07	3.24 y	17:00	-	1.04	y
5	Unk	PCB-4	1.00	1.40e+05	1.40 y	18:17	-	1.19	y
6	IS/RT	13C-PCB-4	100.00	1.18e+07	1.61 y	18:16	-	0.666	y
7	Unk	PCB-15	1.00	2.06e+05	1.34 y	23:48	-	1.14	y
8	IS/RT	13C-PCB-15	100.00	1.80e+07	1.60 y	23:47	-	1.01	y
9	Unk	PCB-19	1.00	1.04e+05	1.09 y	22:09	-	1.26	y
10	IS/RT	13C-PCB-19	100.00	8.24e+06	1.10 y	22:09	-	0.464	y
11	RS	13C-PCB-9	100.00	1.77e+07	1.60 y	19:56	1.77e+05	-	n
12	Unk	PCB-37	1.00	1.72e+05	1.12 y	30:26	-	1.29	y
13	IS	13C-PCB-37	100.00	1.33e+07	1.08 y	30:26	-	1.39	y
14	Unk	PCB-54	1.00	1.28e+05	0.79 y	25:43	-	1.13	y
15	IS/RT	13C-PCB-54	100.00	1.13e+07	0.81 y	25:41	-	1.18	y
16	Unk	PCB-104	1.00	9.72e+04	1.56 y	30:09	-	1.31	y
17	IS	13C-PCB-104	100.00	7.41e+06	1.61 y	30:07	-	0.773	y
18	C/Up	13C-PCB-28	100.00	1.44e+07	1.08 y	26:46	-	1.50	y
19	RS	13C-PCB-52	100.00	9.59e+06	0.79 y	29:01	9.59e+04	-	n
20	Unk	PCB-81	1.00	1.29e+05	0.77 y	36:12	-	1.15	y
21	IS	13C-PCB-81	100.00	1.12e+07	0.79 y	36:11	-	1.36	y
22	Unk	PCB-77	1.00	1.22e+05	0.75 y	36:46	-	1.10	y
23	IS/RT	13C-PCB-77	100.00	1.10e+07	0.80 y	36:45	-	1.34	y
24	Unk	PCB-155	1.00	9.93e+04	1.19 y	34:18	-	1.16	y
25	IS	13C-PCB-155	100.00	8.54e+06	1.29 y	34:17	-	1.04	y
26	C/Up	13C-PCB-111	100.00	1.05e+07	1.61 y	36:21	-	1.27	y
27	RS	13C-PCB-101	100.00	8.24e+06	1.63 y	34:43	8.24e+04	-	n
28	Unk	PCB-123	1.00	1.25e+05	1.59 y	38:24	-	1.14	y
29	IS	13C-PCB-123	100.00	1.10e+07	1.58 y	38:24	-	1.38	y
30	Unk	PCB-118	1.00	1.27e+05	1.40 y	38:36	-	1.13	y
31	IS	13C-PCB-118	100.00	1.12e+07	1.62 y	38:34	-	1.41	y
32	Unk	PCB-114	1.00	1.28e+05	1.42 y	39:12	-	1.17	y
33	IS	13C-PCB-114	100.00	1.09e+07	1.58 y	39:10	-	1.38	y
34	Unk	PCB-105	1.00	1.19e+05	1.54 y	40:01	-	1.12	y
35	IS	13C-PCB-105	100.00	1.07e+07	1.61 y	39:60	-	1.34	y
36	Unk	PCB-126	1.00	1.12e+05	1.43 y	42:08	-	1.13	y
37	IS	13C-PCB-126	100.00	9.86e+06	1.62 y	42:06	-	1.24	y
38	Unk	PCB-167	1.00	1.03e+05	1.34 y	43:30	-	1.08	y
39	IS	13C-PCB-167	100.00	9.50e+06	1.27 y	43:29	-	1.20	y
40	Unk	PCB-156	1.00	9.49e+04	1.24 y	44:44	-	1.02	y
41	IS	13C-PCB-156	100.00	9.28e+06	1.26 y	44:43	-	1.17	y
42	Unk	PCB-157	1.00	9.85e+04	1.34 y	44:59	-	1.04	y
43	IS	13C-PCB-157	100.00	9.46e+06	1.26 y	44:58	-	1.19	y
44	Unk	PCB-169	1.00	9.48e+04	1.10 y	46:49	-	1.08	y
45	IS	13C-PCB-169	100.00	8.81e+06	1.26 y	46:49	-	1.11	y
46	Unk	PCB-188	1.00	1.00e+05	1.02 y	39:48	-	1.17	y
47	IS	13C-PCB-188	100.00	8.55e+06	1.06 y	39:46	-	1.08	y
48	Unk	PCB-189	1.00	8.09e+04	1.11 y	48:30	-	1.14	y
49	IS	13C-PCB-189	100.00	7.11e+06	1.08 y	48:28	-	0.897	y
50	Unk	PCB-202	1.00	6.70e+04	0.90 y	44:54	-	1.09	y
51	IS	13C-PCB-202	100.00	6.13e+06	0.93 y	44:54	-	0.772	y
52	C/Up	13C-PCB-178	100.00	6.03e+06	1.04 y	42:24	-	0.761	y
53	RS	13C-PCB-138	100.00	7.93e+06	1.27 y	41:38	7.93e+04	-	n

54	Unk	PCB-205	1.00	9.61e+04	0.83	y	50:08	-	1.04	y
55	IS	13C-PCB-205	100.00	9.27e+06	0.92	y	50:08	-	1.31	y
56	Unk	PCB-208	1.00	8.51e+04	1.47	y	49:13	-	0.940	y
57	IS	13C-PCB-208	100.00	9.06e+06	0.79	y	49:13	-	1.28	y
58	Unk	PCB-206	1.00	6.39e+04	1.45	y	51:20	-	1.00	y
59	IS	13C-PCB-206	100.00	6.37e+06	0.78	y	51:20	-	0.898	y
60	Unk	PCB-209	1.00	8.94e+04	1.00	y	52:32	-	1.17	y
61	IS	13C-PCB-209	100.00	7.63e+06	1.19	y	52:31	-	1.08	y
62	RS	13C-PCB-194	100.00	7.09e+06	0.92	y	49:53	7.09e+04	-	n

Analyst: [signature] Date: 4/5/18

Run #3 Filename 04APR18Z S: 3 Acquired: 4-APR-18 18:37:21 Cal: 1668FAL4-4-4-18
Client ID: ST040418Z2 Analyte: FAL ID: 1668 CS2 R170213B

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	5.00	9.82e+05	3.07	y	14:36	-	1.10	y
2	IS/RT	13C-PCB-1	100.00	1.78e+07	3.22	y	14:35	-	1.06	y
3	Unk	PCB-3	5.00	9.70e+05	3.04	y	17:01	-	1.12	y
4	IS/RT	13C-PCB-3	100.00	1.73e+07	3.23	y	17:01	-	1.03	y
5	Unk	PCB-4	5.00	6.46e+05	1.38	y	18:16	-	1.14	y
6	IS/RT	13C-PCB-4	100.00	1.13e+07	1.62	y	18:15	-	0.676	y
7	Unk	PCB-15	5.00	9.21e+05	1.46	y	23:48	-	1.09	y
8	IS/RT	13C-PCB-15	100.00	1.68e+07	1.62	y	23:46	-	1.00	y
9	Unk	PCB-19	5.00	4.66e+05	1.07	y	22:10	-	1.18	y
10	IS/RT	13C-PCB-19	100.00	7.89e+06	1.11	y	22:08	-	0.471	y
11	RS	13C-PCB-9	100.00	1.67e+07	1.63	y	19:56	1.67e+05	-	n
12	Unk	PCB-37	5.00	7.76e+05	1.10	y	30:26	-	1.25	y
13	IS	13C-PCB-37	100.00	1.24e+07	1.07	y	30:25	-	1.38	y
14	Unk	PCB-54	5.00	6.57e+05	0.83	y	25:42	-	1.19	y
15	IS/RT	13C-PCB-54	100.00	1.11e+07	0.80	y	25:41	-	1.22	y
16	Unk	PCB-104	5.00	4.55e+05	1.54	y	30:09	-	1.26	y
17	IS	13C-PCB-104	100.00	7.24e+06	1.62	y	30:07	-	0.801	y
18	C/Up	13C-PCB-28	100.00	1.49e+07	1.07	y	26:45	-	1.65	y
19	RS	13C-PCB-52	100.00	9.03e+06	0.81	y	29:02	9.03e+04	-	n
20	Unk	PCB-81	5.00	6.06e+05	0.82	y	36:13	-	1.13	y
21	IS	13C-PCB-81	100.00	1.07e+07	0.78	y	36:11	-	1.34	y
22	Unk	PCB-77	5.00	6.03e+05	0.82	y	36:45	-	1.13	y
23	IS/RT	13C-PCB-77	100.00	1.07e+07	0.81	y	36:45	-	1.34	y
24	Unk	PCB-155	5.00	4.86e+05	1.41	y	34:19	-	1.18	y
25	IS	13C-PCB-155	100.00	8.23e+06	1.30	y	34:18	-	1.04	y
26	C/Up	13C-PCB-111	100.00	1.03e+07	1.60	y	36:21	-	1.29	y
27	RS	13C-PCB-101	100.00	7.95e+06	1.59	y	34:43	7.95e+04	-	n
28	Unk	PCB-123	5.00	5.89e+05	1.58	y	38:25	-	1.14	y
29	IS	13C-PCB-123	100.00	1.04e+07	1.59	y	38:23	-	1.35	y
30	Unk	PCB-118	5.00	6.18e+05	1.52	y	38:35	-	1.15	y
31	IS	13C-PCB-118	100.00	1.08e+07	1.59	y	38:33	-	1.40	y
32	Unk	PCB-114	5.00	6.02e+05	1.55	y	39:13	-	1.17	y
33	IS	13C-PCB-114	100.00	1.03e+07	1.63	y	39:11	-	1.34	y
34	Unk	PCB-105	5.00	5.76e+05	1.49	y	40:00	-	1.11	y
35	IS	13C-PCB-105	100.00	1.04e+07	1.59	y	39:59	-	1.35	y
36	Unk	PCB-126	5.00	5.23e+05	1.57	y	42:07	-	1.08	y
37	IS	13C-PCB-126	100.00	9.69e+06	1.61	y	42:07	-	1.26	y
38	Unk	PCB-167	5.00	5.04e+05	1.21	y	43:29	-	1.06	y
39	IS	13C-PCB-167	100.00	9.51e+06	1.26	y	43:29	-	1.23	y
40	Unk	PCB-156	5.00	4.92e+05	1.31	y	44:43	-	1.09	y
41	IS	13C-PCB-156	100.00	9.06e+06	1.28	y	44:42	-	1.18	y
42	Unk	PCB-157	5.00	4.73e+05	1.25	y	44:58	-	1.03	y
43	IS	13C-PCB-157	100.00	9.20e+06	1.26	y	44:58	-	1.19	y
44	Unk	PCB-169	5.00	4.57e+05	1.20	y	46:50	-	1.06	y
45	IS	13C-PCB-169	100.00	8.59e+06	1.24	y	46:49	-	1.12	y
46	Unk	PCB-188	5.00	4.91e+05	1.12	y	39:49	-	1.22	y
47	IS	13C-PCB-188	100.00	8.07e+06	1.05	y	39:47	-	1.05	y
48	Unk	PCB-189	5.00	4.21e+05	1.06	y	48:29	-	1.18	y
49	IS	13C-PCB-189	100.00	7.14e+06	1.07	y	48:29	-	0.928	y
50	Unk	PCB-202	5.00	3.24e+05	0.87	y	44:55	-	1.07	y
51	IS	13C-PCB-202	100.00	6.07e+06	0.91	y	44:53	-	0.789	y
52	C/Up	13C-PCB-178	100.00	5.98e+06	1.08	y	42:25	-	0.777	y
53	RS	13C-PCB-138	100.00	7.70e+06	1.25	y	41:37	7.70e+04	-	n

54	Unk	PCB-205	5.00	4.93e+05	0.90 y	50:09	-	1.05	y	
55	IS	13C-PCB-205	100.00	9.40e+06	0.90 y	50:09	-	1.37	y	
56	Unk	PCB-208	5.00	4.66e+05	1.36 y	49:13	-	1.01	y	
57	IS	13C-PCB-208	100.00	9.18e+06	0.80 y	49:12	-	1.34	y	
58	Unk	PCB-206	5.00	3.29e+05	1.37 y	51:20	-	1.03	y	
59	IS	13C-PCB-206	100.00	6.38e+06	0.80 y	51:19	-	0.929	y	
60	Unk	PCB-209	5.00	4.50e+05	1.21 y	52:32	-	1.18	y	
61	IS	13C-PCB-209	100.00	7.62e+06	1.22 y	52:31	-	1.11	y	
62	RS	13C-PCB-194	100.00	6.87e+06	0.94 y	49:53	6.87e+04	-	n	

Analyst: [signature] Date: 4/5/18

Run #4 Filename 04APR18Z S: 4 Acquired: 4-APR-18 19:35:42 Cal: 1668FAL4-4-4-18
Client ID: ST040418Z3 Analyte: FAL ID: 1668 CS3 R170805A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	1.05e+07	3.19 y	14:36	-	1.08	y
2	IS/RT	13C-PCB-1	100.00	1.95e+07	3.23 y	14:35	-	1.05	y
3	Unk	PCB-3	50.00	1.05e+07	3.20 y	17:02	-	1.10	y
4	IS/RT	13C-PCB-3	100.00	1.90e+07	3.27 y	17:01	-	1.02	y
5	Unk	PCB-4	50.00	6.99e+06	1.57 y	18:17	-	1.12	y
6	IS/RT	13C-PCB-4	100.00	1.25e+07	1.63 y	18:15	-	0.673	y
7	Unk	PCB-15	50.00	1.03e+07	1.57 y	23:48	-	1.08	y
8	IS/RT	13C-PCB-15	100.00	1.91e+07	1.63 y	23:47	-	1.03	y
9	Unk	PCB-19	50.00	4.90e+06	1.07 y	22:10	-	1.21	y
10	IS/RT	13C-PCB-19	100.00	8.08e+06	1.10 y	22:09	-	0.435	y
11	RS	13C-PCB-9	100.00	1.86e+07	1.58 y	19:56	1.86e+05	-	n
12	Unk	PCB-37	50.00	8.71e+06	1.09 y	30:26	-	1.24	y
13	IS	13C-PCB-37	100.00	1.41e+07	1.07 y	30:25	-	1.35	y
14	Unk	PCB-54	50.00	6.75e+06	0.80 y	25:43	-	1.14	y
15	IS/RT	13C-PCB-54	100.00	1.19e+07	0.85 y	25:41	-	1.13	y
16	Unk	PCB-104	50.00	4.96e+06	1.61 y	30:08	-	1.16	y
17	IS	13C-PCB-104	100.00	8.58e+06	1.63 y	30:07	-	0.821	y
18	C/Up	13C-PCB-28	100.00	1.49e+07	1.07 y	26:45	-	1.43	y
19	RS	13C-PCB-52	100.00	1.04e+07	0.80 y	29:01	1.04e+05	-	n
20	Unk	PCB-81	50.00	7.34e+06	0.81 y	36:12	-	1.16	y
21	IS	13C-PCB-81	100.00	1.27e+07	0.78 y	36:11	-	1.39	y
22	Unk	PCB-77	50.00	6.77e+06	0.81 y	36:46	-	1.11	y
23	IS/RT	13C-PCB-77	100.00	1.22e+07	0.78 y	36:45	-	1.34	y
24	Unk	PCB-155	50.00	5.38e+06	1.27 y	34:18	-	1.14	y
25	IS	13C-PCB-155	100.00	9.41e+06	1.29 y	34:17	-	1.03	y
26	C/Up	13C-PCB-111	100.00	1.14e+07	1.58 y	36:21	-	1.24	y
27	RS	13C-PCB-101	100.00	9.14e+06	1.59 y	34:42	9.14e+04	-	n
28	Unk	PCB-123	50.00	6.46e+06	1.58 y	38:24	-	1.08	y
29	IS	13C-PCB-123	100.00	1.20e+07	1.61 y	38:23	-	1.32	y
30	Unk	PCB-118	50.00	7.16e+06	1.61 y	38:34	-	1.13	y
31	IS	13C-PCB-118	100.00	1.27e+07	1.62 y	38:34	-	1.40	y
32	Unk	PCB-114	50.00	6.65e+06	1.57 y	39:12	-	1.08	y
33	IS	13C-PCB-114	100.00	1.23e+07	1.62 y	39:10	-	1.35	y
34	Unk	PCB-105	50.00	6.73e+06	1.59 y	39:60	-	1.09	y
35	IS	13C-PCB-105	100.00	1.24e+07	1.63 y	39:60	-	1.36	y
36	Unk	PCB-126	50.00	6.24e+06	1.55 y	42:08	-	1.11	y
37	IS	13C-PCB-126	100.00	1.12e+07	1.61 y	42:07	-	1.24	y
38	Unk	PCB-167	50.00	5.70e+06	1.24 y	43:30	-	1.03	y
39	IS	13C-PCB-167	100.00	1.10e+07	1.26 y	43:29	-	1.21	y
40	Unk	PCB-156	50.00	5.76e+06	1.27 y	44:43	-	1.08	y
41	IS	13C-PCB-156	100.00	1.06e+07	1.28 y	44:43	-	1.17	y
42	Unk	PCB-157	50.00	5.80e+06	1.25 y	44:59	-	1.05	y
43	IS	13C-PCB-157	100.00	1.10e+07	1.25 y	44:58	-	1.22	y
44	Unk	PCB-169	50.00	5.39e+06	1.25 y	46:50	-	1.03	y
45	IS	13C-PCB-169	100.00	1.04e+07	1.30 y	46:48	-	1.15	y
46	Unk	PCB-188	50.00	5.63e+06	1.06 y	39:48	-	1.07	y
47	IS	13C-PCB-188	100.00	1.05e+07	1.07 y	39:47	-	1.16	y
48	Unk	PCB-189	50.00	4.72e+06	1.07 y	48:30	-	1.12	y
49	IS	13C-PCB-189	100.00	8.42e+06	1.07 y	48:28	-	0.926	y
50	Unk	PCB-202	50.00	3.73e+06	0.91 y	44:54	-	1.08	y
51	IS	13C-PCB-202	100.00	6.87e+06	0.89 y	44:54	-	0.756	y
52	C/Up	13C-PCB-178	100.00	6.74e+06	1.05 y	42:25	-	0.742	y
53	RS	13C-PCB-138	100.00	9.09e+06	1.25 y	41:37	9.09e+04	-	n

54	Unk	PCB-205	50.00	5.67e+06	0.93 y	50:08	-	1.05	y
55	IS	13C-PCB-205	100.00	1.08e+07	0.90 y	50:07	-	1.29	y
56	Unk	PCB-208	50.00	5.25e+06	1.38 y	49:13	-	0.936	y
57	IS	13C-PCB-208	100.00	1.12e+07	0.80 y	49:12	-	1.34	y
58	Unk	PCB-206	50.00	3.78e+06	1.33 y	51:20	-	0.934	y
59	IS	13C-PCB-206	100.00	8.10e+06	0.77 y	51:20	-	0.972	y
60	Unk	PCB-209	50.00	4.96e+06	1.16 y	52:31	-	1.17	y
61	IS	13C-PCB-209	100.00	8.49e+06	1.20 y	52:31	-	1.02	y
62	RS	13C-PCB-194	100.00	8.34e+06	0.92 y	49:53	8.34e+04	-	n

Analyst: _____ Date: 4/5/18

Run #5 Filename 04APR18Z S: 5 Acquired: 4-APR-18 20:34:03 Cal: 1668FAL4-4-4-18
Client ID: ST040418Z4 Analyte: FAL ID: 1668 CS4 R151116B

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	400.00	1.27e+08	3.15	y	14:34	-	1.10	y
2	IS/RT	13C-PCB-1	100.00	2.89e+07	3.18	y	14:34	-	1.02	y
3	Unk	PCB-3	400.00	1.30e+08	3.17	y	17:01	-	1.12	y
4	IS/RT	13C-PCB-3	100.00	2.88e+07	3.25	y	16:60	-	1.02	y
5	Unk	PCB-4	400.00	8.69e+07	1.55	y	18:17	-	1.12	y
6	IS/RT	13C-PCB-4	100.00	1.94e+07	1.60	y	18:15	-	0.688	y
7	Unk	PCB-15	400.00	1.34e+08	1.55	y	23:47	-	1.11	y
8	IS/RT	13C-PCB-15	100.00	3.00e+07	1.60	y	23:47	-	1.06	y
9	Unk	PCB-19	400.00	6.65e+07	1.07	y	22:10	-	1.22	y
10	IS/RT	13C-PCB-19	100.00	1.37e+07	1.12	y	22:09	-	0.485	y
11	RS	13C-PCB-9	100.00	2.82e+07	1.63	y	19:56	2.82e+05	-	n
12	Unk	PCB-37	400.00	1.11e+08	1.10	y	30:27	-	1.28	y
13	IS	13C-PCB-37	100.00	2.18e+07	1.09	y	30:26	-	1.40	y
14	Unk	PCB-54	400.00	8.58e+07	0.80	y	25:43	-	1.15	y
15	IS/RT	13C-PCB-54	100.00	1.86e+07	0.80	y	25:41	-	1.20	y
16	Unk	PCB-104	400.00	6.07e+07	1.59	y	30:09	-	1.21	y
17	IS	13C-PCB-104	100.00	1.25e+07	1.64	y	30:08	-	0.806	y
18	C/Up	13C-PCB-28	100.00	2.23e+07	1.05	y	26:45	-	1.43	y
19	RS	13C-PCB-52	100.00	1.55e+07	0.81	y	29:01	1.55e+05	-	n
20	Unk	PCB-81	400.00	9.11e+07	0.83	y	36:13	-	1.22	y
21	IS	13C-PCB-81	100.00	1.86e+07	0.79	y	36:12	-	1.37	y
22	Unk	PCB-77	400.00	9.27e+07	0.82	y	36:46	-	1.16	y
23	IS/RT	13C-PCB-77	100.00	2.01e+07	0.80	y	36:45	-	1.48	y
24	Unk	PCB-155	400.00	6.34e+07	1.26	y	34:18	-	1.15	y
25	IS	13C-PCB-155	100.00	1.37e+07	1.29	y	34:17	-	1.01	y
26	C/Up	13C-PCB-111	100.00	1.71e+07	1.60	y	36:21	-	1.27	y
27	RS	13C-PCB-101	100.00	1.35e+07	1.59	y	34:43	1.35e+05	-	n
28	Unk	PCB-123	400.00	8.30e+07	1.57	y	38:24	-	1.10	y
29	IS	13C-PCB-123	100.00	1.89e+07	1.60	y	38:24	-	1.44	y
30	Unk	PCB-118	400.00	9.23e+07	1.58	y	38:36	-	1.17	y
31	IS	13C-PCB-118	100.00	1.97e+07	1.62	y	38:34	-	1.51	y
32	Unk	PCB-114	400.00	8.49e+07	1.58	y	39:12	-	1.12	y
33	IS	13C-PCB-114	100.00	1.89e+07	1.61	y	39:10	-	1.44	y
34	Unk	PCB-105	400.00	8.56e+07	1.60	y	40:01	-	1.12	y
35	IS	13C-PCB-105	100.00	1.91e+07	1.61	y	39:60	-	1.46	y
36	Unk	PCB-126	400.00	8.00e+07	1.58	y	42:08	-	1.10	y
37	IS	13C-PCB-126	100.00	1.82e+07	1.64	y	42:06	-	1.39	y
38	Unk	PCB-167	400.00	7.31e+07	1.25	y	43:30	-	1.07	y
39	IS	13C-PCB-167	100.00	1.70e+07	1.26	y	43:29	-	1.30	y
40	Unk	PCB-156	400.00	7.37e+07	1.26	y	44:44	-	1.12	y
41	IS	13C-PCB-156	100.00	1.65e+07	1.29	y	44:43	-	1.26	y
42	Unk	PCB-157	400.00	7.66e+07	1.25	y	44:59	-	1.08	y
43	IS	13C-PCB-157	100.00	1.77e+07	1.29	y	44:58	-	1.35	y
44	Unk	PCB-169	400.00	7.08e+07	1.24	y	46:49	-	1.06	y
45	IS	13C-PCB-169	100.00	1.67e+07	1.27	y	46:49	-	1.28	y
46	Unk	PCB-188	400.00	6.83e+07	1.06	y	39:48	-	1.09	y
47	IS	13C-PCB-188	100.00	1.57e+07	1.06	y	39:46	-	1.20	y
48	Unk	PCB-189	400.00	5.97e+07	1.05	y	48:30	-	1.14	y
49	IS	13C-PCB-189	100.00	1.31e+07	1.08	y	48:28	-	1.00	y
50	Unk	PCB-202	400.00	4.48e+07	0.90	y	44:56	-	1.09	y
51	IS	13C-PCB-202	100.00	1.03e+07	0.90	y	44:54	-	0.784	y
52	C/Up	13C-PCB-178	100.00	9.89e+06	1.07	y	42:24	-	0.756	y
53	RS	13C-PCB-138	100.00	1.31e+07	1.25	y	41:38	1.31e+05	-	n

54	Unk	PCB-205	400.00	7.39e+07	0.91	y	50:08	-	1.10	y	
55	IS	13C-PCB-205	100.00	1.68e+07	0.93	y	50:07	-	1.34	y	
56	Unk	PCB-208	400.00	6.63e+07	1.33	y	49:13	-	0.977	y	
57	IS	13C-PCB-208	100.00	1.70e+07	0.81	y	49:12	-	1.36	y	
58	Unk	PCB-206	400.00	4.79e+07	1.36	y	51:21	-	0.988	y	
59	IS	13C-PCB-206	100.00	1.21e+07	0.78	y	51:20	-	0.970	y	
60	Unk	PCB-209	400.00	6.11e+07	1.19	y	52:31	-	1.21	y	
61	IS	13C-PCB-209	100.00	1.26e+07	1.19	y	52:31	-	1.01	y	
62	RS	13C-PCB-194	100.00	1.25e+07	0.92	y	49:53	1.25e+05	-	n	

Analyst: _____ Date: 4/5/18

Run #6 Filename 04APR18Z S: 6 Acquired: 4-APR-18 21:32:25 Cal: 1668FAL4-4-4-18
Client ID: ST040418Z5 Analyte: FAL ID: 1668 CS5 R130426C

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	2000.00	2.33e+08	3.10	y	14:36	-	1.15	y
2	IS/RT	13C-PCB-1	100.00	1.02e+07	3.15	y	14:35	-	1.13	y
3	Unk	PCB-3	2000.00	2.13e+08	3.15	y	17:02	-	1.13	y
4	IS/RT	13C-PCB-3	100.00	9.48e+06	3.17	y	17:01	-	1.06	y
5	Unk	PCB-4	2000.00	1.39e+08	1.54	y	18:17	-	1.13	y
6	IS/RT	13C-PCB-4	100.00	6.11e+06	1.54	y	18:16	-	0.680	y
7	Unk	PCB-15	2000.00	2.06e+08	1.55	y	23:49	-	1.10	y
8	IS/RT	13C-PCB-15	100.00	9.33e+06	1.59	y	23:48	-	1.04	y
9	Unk	PCB-19	2000.00	1.03e+08	1.06	y	22:11	-	1.20	y
10	IS/RT	13C-PCB-19	100.00	4.29e+06	1.14	y	22:10	-	0.478	y
11	RS	13C-PCB-9	100.00	8.98e+06	1.61	y	19:57	8.98e+04	-	n
12	Unk	PCB-37	2000.00	1.76e+08	1.08	y	30:28	-	1.25	y
13	IS	13C-PCB-37	100.00	7.06e+06	1.10	y	30:26	-	1.42	y
14	Unk	PCB-54	2000.00	1.35e+08	0.80	y	25:43	-	1.14	y
15	IS/RT	13C-PCB-54	100.00	5.90e+06	0.80	y	25:42	-	1.19	y
16	Unk	PCB-104	2000.00	9.28e+07	1.59	y	30:10	-	1.21	y
17	IS	13C-PCB-104	100.00	3.84e+06	1.63	y	30:09	-	0.773	y
18	C/Up	13C-PCB-28	100.00	7.83e+06	1.10	y	26:46	-	1.58	y
19	RS	13C-PCB-52	100.00	4.97e+06	0.80	y	29:03	4.97e+04	-	n
20	Unk	PCB-81	2000.00	1.38e+08	0.81	y	36:14	-	1.14	y
21	IS	13C-PCB-81	100.00	6.04e+06	0.81	y	36:13	-	1.48	y
22	Unk	PCB-77	2000.00	1.36e+08	0.80	y	36:47	-	1.07	y
23	IS/RT	13C-PCB-77	100.00	6.31e+06	0.78	y	36:45	-	1.55	y
24	Unk	PCB-155	2000.00	9.56e+07	1.27	y	34:20	-	1.14	y
25	IS	13C-PCB-155	100.00	4.21e+06	1.26	y	34:19	-	1.03	y
26	C/Up	13C-PCB-111	100.00	5.19e+06	1.58	y	36:23	-	1.27	y
27	RS	13C-PCB-101	100.00	4.07e+06	1.58	y	34:44	4.07e+04	-	n
28	Unk	PCB-123	2000.00	1.25e+08	1.58	y	38:26	-	1.09	y
29	IS	13C-PCB-123	100.00	5.73e+06	1.62	y	38:25	-	1.38	y
30	Unk	PCB-118	2000.00	1.33e+08	1.57	y	38:36	-	1.11	y
31	IS	13C-PCB-118	100.00	6.00e+06	1.62	y	38:35	-	1.44	y
32	Unk	PCB-114	2000.00	1.31e+08	1.57	y	39:13	-	1.09	y
33	IS	13C-PCB-114	100.00	6.01e+06	1.57	y	39:13	-	1.45	y
34	Unk	PCB-105	2000.00	1.29e+08	1.60	y	40:02	-	1.10	y
35	IS	13C-PCB-105	100.00	5.86e+06	1.62	y	40:00	-	1.41	y
36	Unk	PCB-126	2000.00	1.18e+08	1.60	y	42:09	-	1.05	y
37	IS	13C-PCB-126	100.00	5.60e+06	1.57	y	42:07	-	1.35	y
38	Unk	PCB-167	2000.00	1.08e+08	1.24	y	43:31	-	1.04	y
39	IS	13C-PCB-167	100.00	5.18e+06	1.27	y	43:29	-	1.25	y
40	Unk	PCB-156	2000.00	1.07e+08	1.25	y	44:45	-	1.07	y
41	IS	13C-PCB-156	100.00	5.00e+06	1.25	y	44:43	-	1.20	y
42	Unk	PCB-157	2000.00	1.10e+08	1.25	y	44:60	-	1.05	y
43	IS	13C-PCB-157	100.00	5.23e+06	1.25	y	44:58	-	1.26	y
44	Unk	PCB-169	2000.00	9.52e+07	1.24	y	46:50	-	0.997	y
45	IS	13C-PCB-169	100.00	4.77e+06	1.25	y	46:48	-	1.15	y
46	Unk	PCB-188	2000.00	1.03e+08	1.06	y	39:49	-	1.11	y
47	IS	13C-PCB-188	100.00	4.65e+06	1.07	y	39:47	-	1.12	y
48	Unk	PCB-189	2000.00	8.24e+07	1.05	y	48:31	-	0.978	y
49	IS	13C-PCB-189	100.00	4.21e+06	1.04	y	48:29	-	1.01	y
50	Unk	PCB-202	2000.00	6.33e+07	0.90	y	44:57	-	0.984	y
51	IS	13C-PCB-202	100.00	3.22e+06	0.89	y	44:55	-	0.774	y
52	C/Up	13C-PCB-178	100.00	3.29e+06	1.08	y	42:25	-	0.791	y
53	RS	13C-PCB-138	100.00	4.16e+06	1.30	y	41:39	4.16e+04	-	n

54	Unk	PCB-205	2000.00	1.03e+08	0.91	y	50:09	-	0.980	y	
55	IS	13C-PCB-205	100.00	5.24e+06	0.91	y	50:09	-	1.34	y	
56	Unk	PCB-208	2000.00	9.47e+07	1.37	y	49:13	-	0.940	y	
57	IS	13C-PCB-208	100.00	5.03e+06	0.80	y	49:12	-	1.29	y	
58	Unk	PCB-206	2000.00	6.60e+07	1.33	y	51:20	-	0.939	y	
59	IS	13C-PCB-206	100.00	3.51e+06	0.76	y	51:19	-	0.900	y	
60	Unk	PCB-209	2000.00	8.31e+07	1.20	y	52:32	-	1.00	y	
61	IS	13C-PCB-209	100.00	4.15e+06	1.20	y	52:31	-	1.06	y	
62	RS	13C-PCB-194	100.00	3.90e+06	0.94	y	49:53	3.90e+04	-	n	

Analyst: _____ Date: 4/5/18

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 04APR18Z Sam:4 Analysis Date: 4-APR-18 19:35:42

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.19	2.66-3.60	y	48.9	37.5 - 62.5
PCB-3	M/M+2	3.20	2.66-3.60	y	48.8	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	48.8	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	49.0	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	49.4	37.5 - 62.5
PCB-37	M/M+2	1.09	0.88-1.20	y	49.3	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	49.3	37.5 - 62.5
PCB-77	M/M+2	0.81	0.65-0.89	y	50.0	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	49.5	37.5 - 62.5
PCB-104	M+2/M+4	1.61	1.32-1.78	y	47.2	37.5 - 62.5
PCB-105	M+2/M+4	1.59	1.32-1.78	y	49.0	37.5 - 62.5
PCB-114	M+2/M+4	1.57	1.32-1.78	y	48.1	37.5 - 62.5
PCB-118	M+2/M+4	1.61	1.32-1.78	y	48.7	37.5 - 62.5
PCB-123	M+2/M+4	1.58	1.32-1.78	y	48.0	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	50.0	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	50.0	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	50.4	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	49.7	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	49.3	37.5 - 62.5
PCB-169	M+2/M+4	1.25	1.05-1.43	y	48.7	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	46.8	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	50.2	37.5 - 62.5
PCB-202	M+2/M+4	0.91	0.76-1.02	y	49.8	37.5 - 62.5
PCB-205	M+2/M+4	0.93	0.76-1.02	y	50.5	37.5 - 62.5
PCB-206	M+4/M+6	1.33	1.13-1.53	y	47.9	37.5 - 62.5
PCB-208	M+4/M+6	1.38	1.13-1.53	y	48.6	37.5 - 62.5
PCB-209	M+4/M+6	1.16	0.99-1.33	y	49.7	37.5 - 62.5

Analyst: _____ Date: 4/5/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 04APR18Z Sam:4 Analysis Date: 4-APR-18 19:35:42

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.23	2.66-3.60	y	98.2	50.0 - 145
13C-PCB-3	M/M+2	3.27	2.66-3.60	y	99.2	50.0 - 145
13C-PCB-4	M/M+2	1.63	1.33-1.79	y	99.8	50.0 - 145
13C-PCB-15	M/M+2	1.63	1.33-1.79	y	99.7	50.0 - 145
13C-PCB-19	M/M+2	1.10	0.88-1.20	y	92.5	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	96.4	50.0 - 145
13C-PCB-54	M/M+2	0.85	0.65-0.89	y	95.7	50.0 - 145
13C-PCB-77	M/M+2	0.78	0.65-0.89	y	95.3	50.0 - 145
13C-PCB-81	M/M+2	0.78	0.65-0.89	y	101	50.0 - 145
13C-PCB-104	M+2/M+4	1.63	1.32-1.78	y	103	50.0 - 145
13C-PCB-105	M+2/M+4	1.63	1.32-1.78	y	98.9	50.0 - 145
13C-PCB-114	M+2/M+4	1.62	1.32-1.78	y	98.1	50.0 - 145
13C-PCB-118	M+2/M+4	1.62	1.32-1.78	y	98.1	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	97.2	50.0 - 145
13C-PCB-126	M+2/M+4	1.61	1.32-1.78	y	96.1	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	101	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	98.3	50.0 - 145
13C-PCB-157	M+2/M+4	1.25	1.05-1.43	y	98.3	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	98.3	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	99.9	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	103	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	98.0	50.0 - 145
13C-PCB-202	M+2/M+4	0.89	0.76-1.02	y	97.8	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	97.9	50.0 - 145
13C-PCB-206	M+2/M+4	0.77	0.65-0.89	y	104	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	101	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	97.5	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	93.3	65.0 - 135
13C-PCB-111	M+2/M+4	1.58	1.32-1.78	y	98.4	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	97.4	75.0 - 125

Analyst: _____ Date: 4/5/18

FAL ID: ST040418Z3 Filename: 04APR18Z Sam:4 Acquired: 4-APR-18 19:35:42 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A ConCal: NA EndCal: NA
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	1.05e+07	3.19 y	14:36	1.11	48.9		2.50	-	-	*	-
13C-PCB-1	1.95e+07	3.23 y	14:35	1.07	98.2		2.50				98.2
PCB-3	1.05e+07	3.20 y	17:02	1.13	48.8		2.50	-	-	*	-
13C-PCB-3	1.90e+07	3.27 y	17:01	1.03	99.2		2.50				99.2
PCB-4	6.99e+06	1.57 y	18:17	1.14	48.8		2.50	-	-	*	-
13C-PCB-4	1.25e+07	1.63 y	18:15	0.67	99.8		2.50				99.8
PCB-15	1.03e+07	1.57 y	23:48	1.10	49.0		2.50	-	-	*	-
13C-PCB-15	1.91e+07	1.63 y	23:47	1.03	99.7		2.50				99.7
PCB-19	4.90e+06	1.07 y	22:10	1.23	49.4		2.50	-	-	*	-
13C-PCB-19	8.08e+06	1.10 y	22:09	0.47	92.5		2.50				92.5
13C-PCB-9	1.86e+07	1.58 y	19:56	-	79.3		2.50				
PCB-37	8.71e+06	1.09 y	30:26	1.26	49.3		2.50	-	-	*	-
13C-PCB-37	1.41e+07	1.07 y	30:25	1.40	96.4		2.50				96.4
PCB-54	6.75e+06	0.80 y	25:43	1.16	49.3		2.50	-	-	*	-
13C-PCB-54	1.19e+07	0.85 y	25:41	1.19	95.7		2.50				95.7
PCB-104	4.96e+06	1.61 y	30:08	1.22	47.2		2.50	-	-	*	-
13C-PCB-104	8.58e+06	1.63 y	30:07	0.80	103		2.50				103
13C-PCB-28	1.49e+07	1.07 y	26:45	1.53	93.3		2.50				93.3
13C-PCB-52	1.04e+07	0.80 y	29:01	-	80.6		2.50				
PCB-81	7.34e+06	0.81 y	36:12	1.17	49.5		2.50	-	-	*	-
13C-PCB-81	1.27e+07	0.78 y	36:11	1.37	101		2.50				101
PCB-77	6.77e+06	0.81 y	36:46	1.11	50.0		2.50	-	-	*	-
13C-PCB-77	1.22e+07	0.78 y	36:45	1.41	95.3		2.50				95.3
PCB-155	5.38e+06	1.27 y	34:18	1.14	50.0		2.50	-	-	*	-
13C-PCB-155	9.41e+06	1.29 y	34:17	1.02	101		2.50				101
13C-PCB-111	1.14e+07	1.58 y	36:21	1.26	98.4		2.50				98.4
13C-PCB-101	9.14e+06	1.59 y	34:42	-	80.9		2.50				
PCB-123	6.46e+06	1.58 y	38:24	1.12	48.0		2.50	-	-	*	-
13C-PCB-123	1.20e+07	1.61 y	38:23	1.36	97.2		2.50				97.2
PCB-118	7.16e+06	1.61 y	38:34	1.16	48.7		2.50	-	-	*	-
13C-PCB-118	1.27e+07	1.62 y	38:34	1.42	98.1		2.50				98.1
PCB-114	6.65e+06	1.57 y	39:12	1.13	48.1		2.50	-	-	*	-
13C-PCB-114	1.23e+07	1.62 y	39:10	1.38	98.1		2.50				98.1
PCB-105	6.73e+06	1.59 y	39:60	1.11	49.0		2.50	-	-	*	-
13C-PCB-105	1.24e+07	1.63 y	39:60	1.38	98.9		2.50				98.9
PCB-126	6.24e+06	1.55 y	42:08	1.11	50.0		2.50	-	-	*	-
13C-PCB-126	1.12e+07	1.61 y	42:07	1.29	96.1		2.50				96.1
PCB-167	5.70e+06	1.24 y	43:30	1.05	49.3		2.50	-	-	*	-
13C-PCB-167	1.10e+07	1.26 y	43:29	1.23	98.3		2.50				98.3
PCB-156	5.76e+06	1.27 y	44:43	1.08	50.4		2.50	-	-	*	-
13C-PCB-156	1.06e+07	1.28 y	44:43	1.19	98.3		2.50				98.3
PCB-157	5.80e+06	1.25 y	44:59	1.06	49.7		2.50	-	-	*	-
13C-PCB-157	1.10e+07	1.25 y	44:58	1.24	98.3		2.50				98.3
PCB-169	5.39e+06	1.25 y	46:50	1.06	48.7		2.50	-	-	*	-
13C-PCB-169	1.04e+07	1.30 y	46:48	1.15	99.9		2.50				99.9
PCB-188	5.63e+06	1.06 y	39:48	1.14	46.8		2.50	-	-	*	-
13C-PCB-188	1.05e+07	1.07 y	39:47	1.13	103		2.50				103
PCB-189	4.72e+06	1.07 y	48:30	1.12	50.2		2.50	-	-	*	-
13C-PCB-189	8.42e+06	1.07 y	48:28	0.94	98.0		2.50				98.0
PCB-202	3.73e+06	0.91 y	44:54	1.09	49.8		2.50	-	-	*	-
13C-PCB-202	6.87e+06	0.89 y	44:54	0.77	97.8		2.50				97.8
13C-PCB-178	6.74e+06	1.05 y	42:25	0.76	97.4		2.50				97.4
13C-PCB-138	9.09e+06	1.25 y	41:37	-	83.0		2.50				

FAL ID: ST040418Z3 Filename: 04APR18Z Sam:4 Acquired: 4-APR-18 19:35:42 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 R170805A ConCal: NA EndCal: NA
Results: GC Column: DB1MS Amount: 1.000

PCB-205	5.67e+06	0.93	y	50:08	1.04	50.5	2.50	-	-	*	-
13C-PCB-205	1.08e+07	0.90	y	50:07	1.32	97.9	2.50				97.9
PCB-208	5.25e+06	1.38	y	49:13	0.96	48.6	2.50	-	-	*	-
13C-PCB-208	1.12e+07	0.80	y	49:12	1.33	101	2.50				101
PCB-206	3.78e+06	1.33	y	51:20	0.97	47.9	2.50	-	-	*	-
13C-PCB-206	8.10e+06	0.77	y	51:20	0.94	104	2.50				104
PCB-209	4.96e+06	1.16	y	52:31	1.17	49.7	2.50	-	-	*	-
13C-PCB-209	8.49e+06	1.20	y	52:31	1.04	97.5	2.50				97.5
13C-PCB-194	8.34e+06	0.92	y	49:53	-	84.2	2.50				

Analyst: _____ Date: 4/5/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:04APR18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

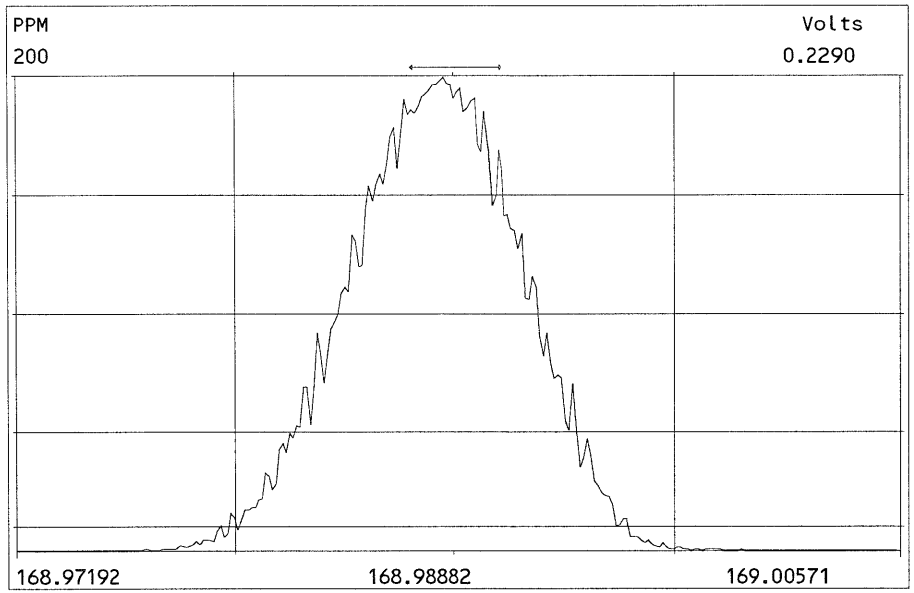
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
04APR18Z	1	ST040418Z0	1668 CS0 R170821A	4-APR-18 16:40:39	NA	NA	BS
04APR18Z	2	ST040418Z1	1668 CS1 R170213A	4-APR-18 17:38:59	NA	NA	BS
04APR18Z	3	ST040418Z2	1668 CS2 R170213B	4-APR-18 18:37:21	NA	NA	BS
04APR18Z	4	ST040418Z3	1668 CS3 R170805A	4-APR-18 19:35:42	NA	NA	BS
04APR18Z	5	ST040418Z4	1668 CS4 R151116B	4-APR-18 20:34:03	NA	NA	BS
04APR18Z	6	ST040418Z5	1668 CS5 R130426C	4-APR-18 21:32:25	NA	NA	BS
04APR18Z	7	SB040418Z1	Solvent Blank	4-APR-18 22:30:46	ST040418Z3	ST040418Z6	BS
04APR18Z	8	SS040418Z1	Daily 209 170620B	4-APR-18 23:29:08	ST040418Z3	ST040418Z6	BS
04APR18Z	9	SS040418Z2	2nd Source 170815A	5-APR-18 00:27:54	ST040418Z3	ST040418Z6	BS
04APR18Z	10	SB040418Z2	Solvent Blank	5-APR-18 01:26:41	ST040418Z3	ST040418Z6	BS
04APR18Z	11	11360-001-0001-SA	Effluent #030818 Eg	5-APR-18 02:25:02	ST040418Z3	ST040418Z6	BS
04APR18Z	12	11361-001-0001-SA	Effluent (E001-D)	5-APR-18 03:23:23	ST040418Z3	ST040418Z6	BS
04APR18Z	13	11373-001-0001-SA	L220289-1	5-APR-18 04:21:45	ST040418Z3	ST040418Z6	BS
04APR18Z	14	11348-001-0001-SA	MDL1	5-APR-18 05:20:06	ST040418Z3	ST040418Z6	BS
04APR18Z	15	11348-002-0001-SA	MDL2	5-APR-18 06:18:29	ST040418Z3	ST040418Z6	BS
04APR18Z	16	ST040418Z6	1668 CS3 R170805A	5-APR-18 07:16:50	ST040418Z3	ST040418Z6	BS

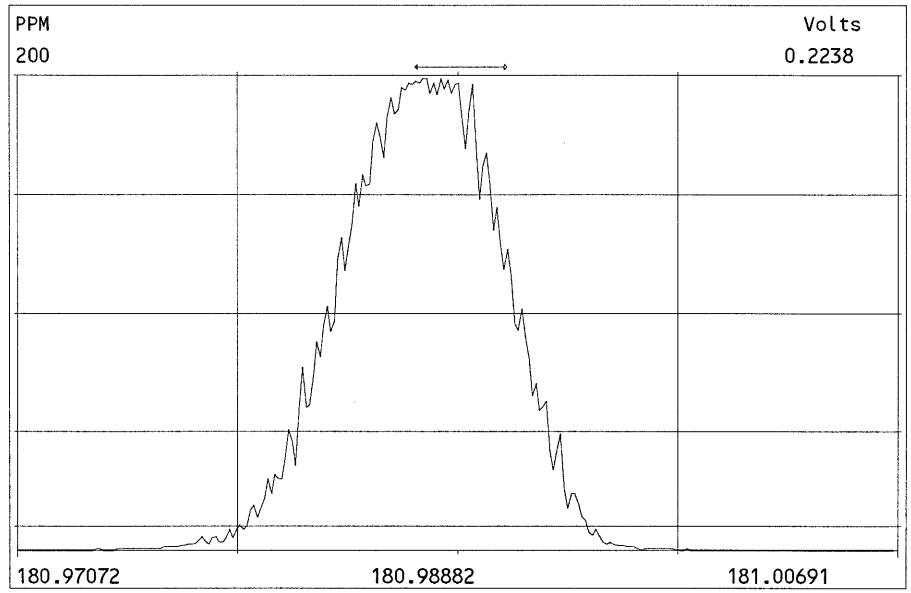
4/5/18

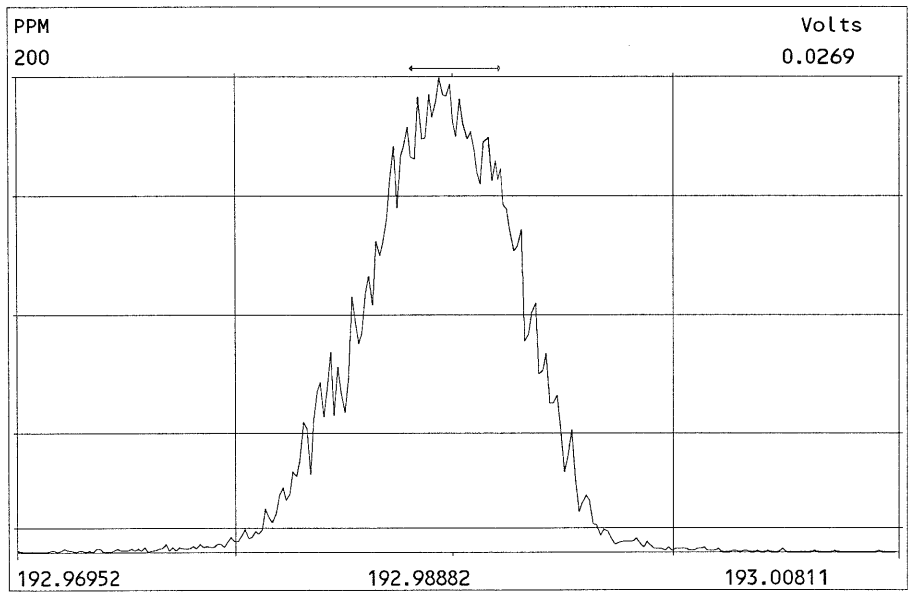
Data Backed Up:_____

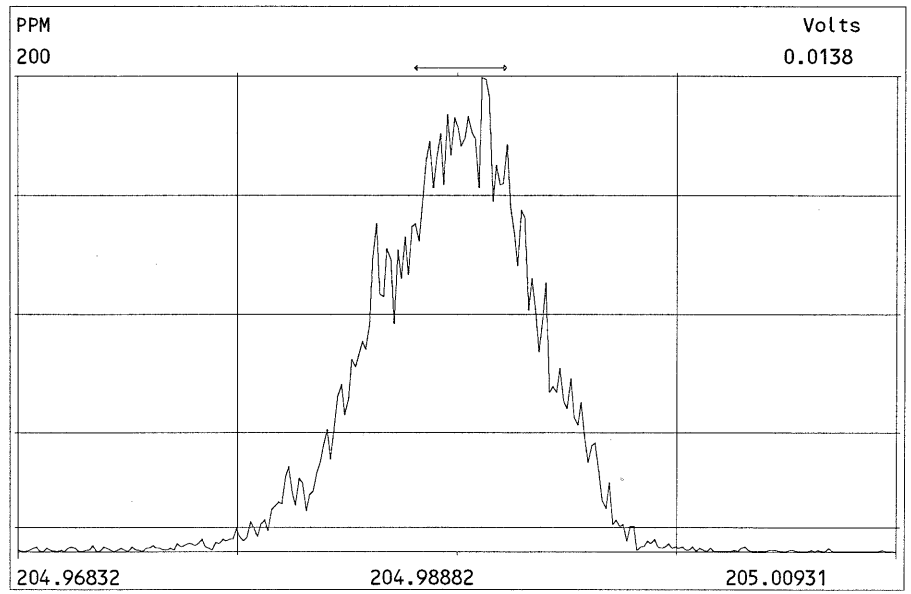
Date:_____

Peak Locate Examination: 4-APR-2018:16:38 File:04APR18Z
Experiment:1668PCB Function:1 Reference:PFK

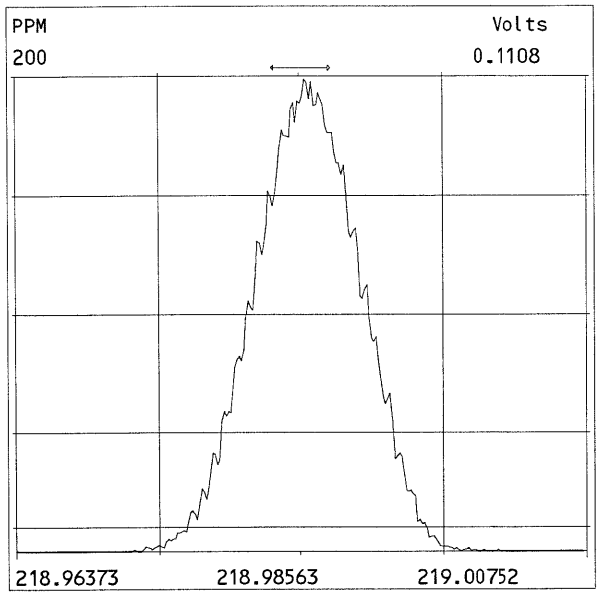


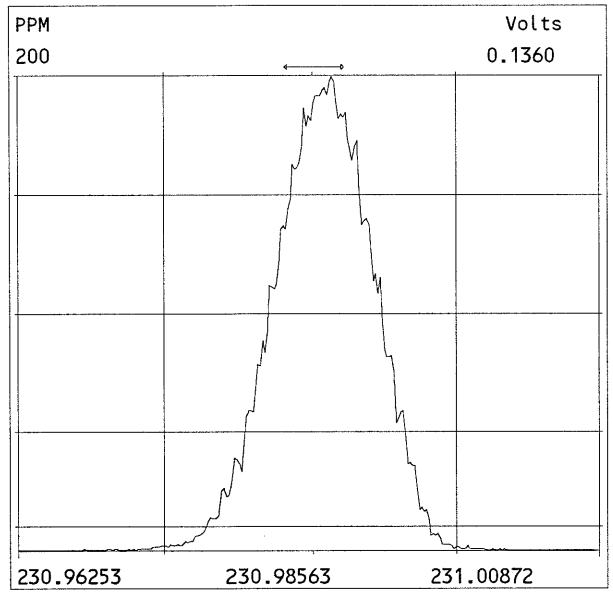


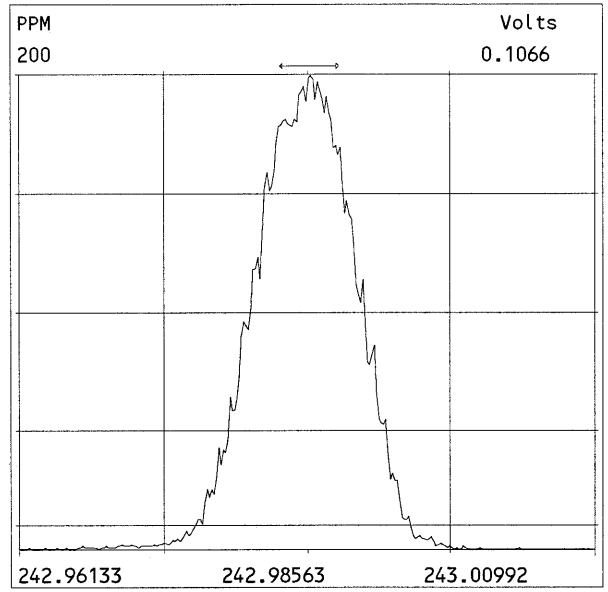


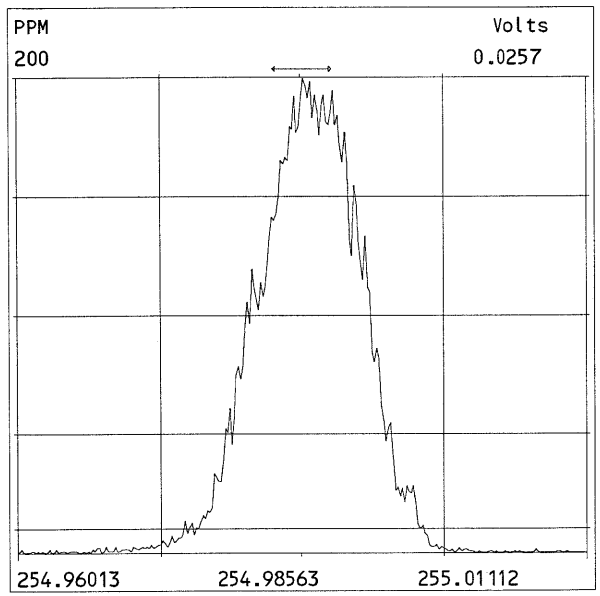


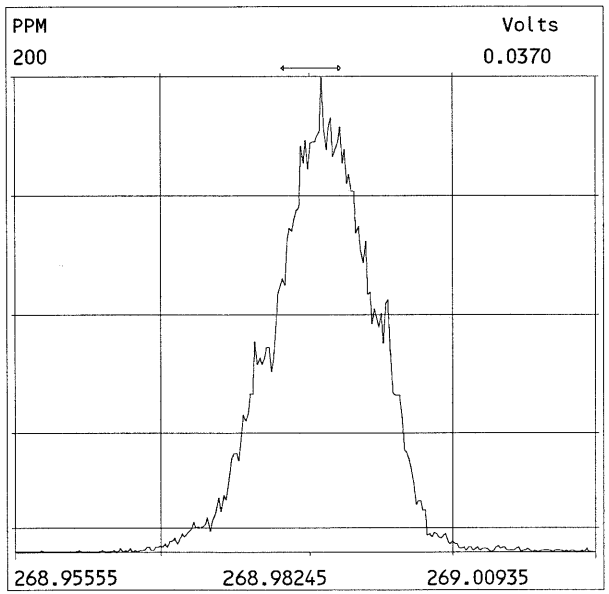
Peak Locate Examination: 4-APR-2018:16:38 File:04APR18Z
Experiment:1668PCB Function:2 Reference:PFK

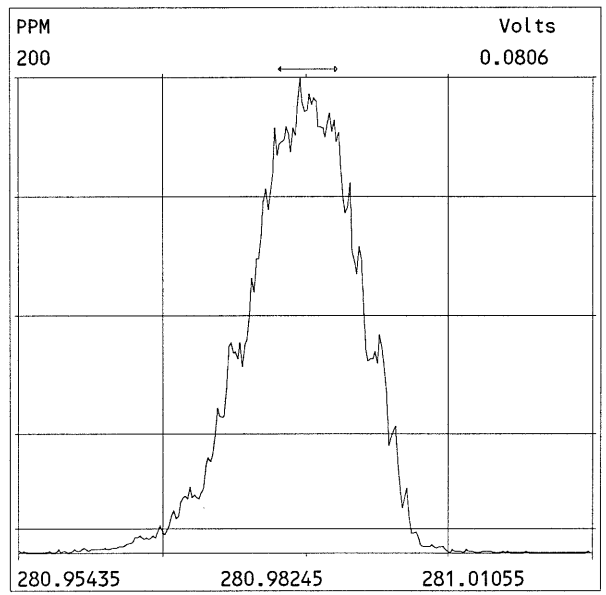




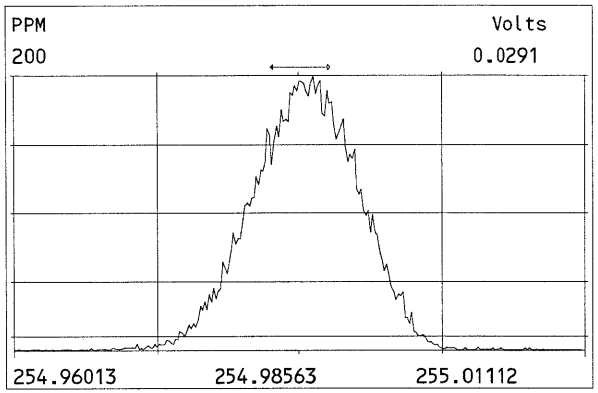


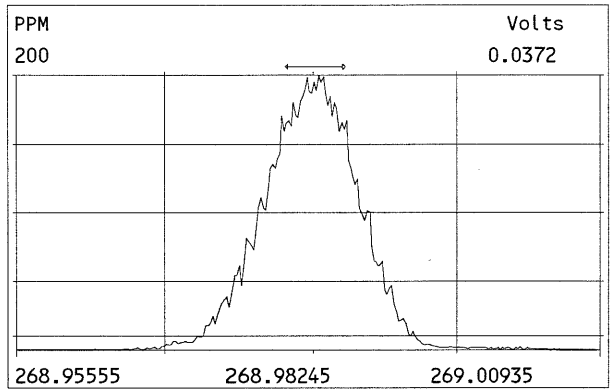


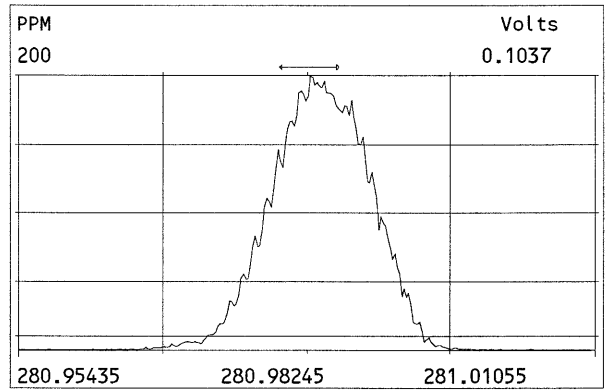


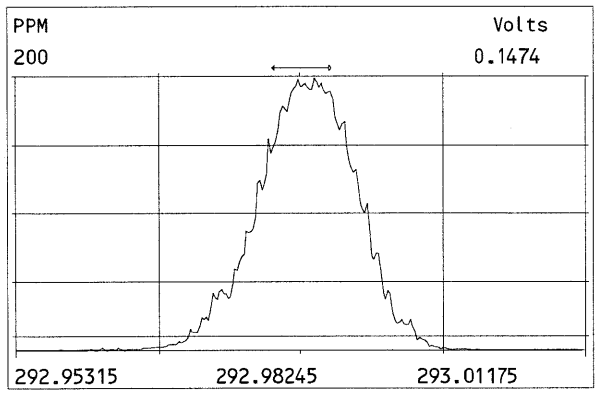


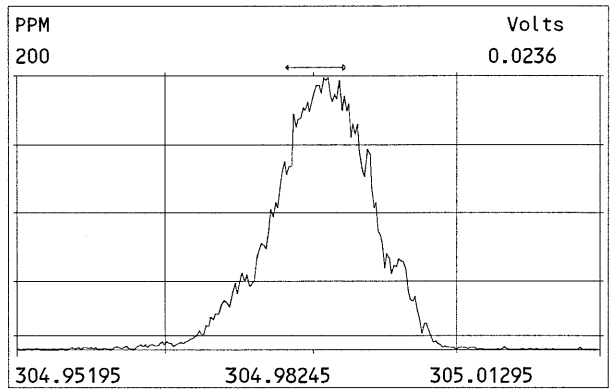
Peak Locate Examination: 4-APR-2018:16:38 File:04APR18Z
Experiment:1668PCB Function:3 Reference:PFK

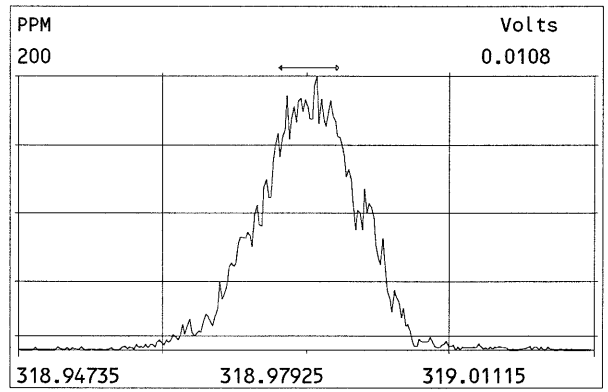


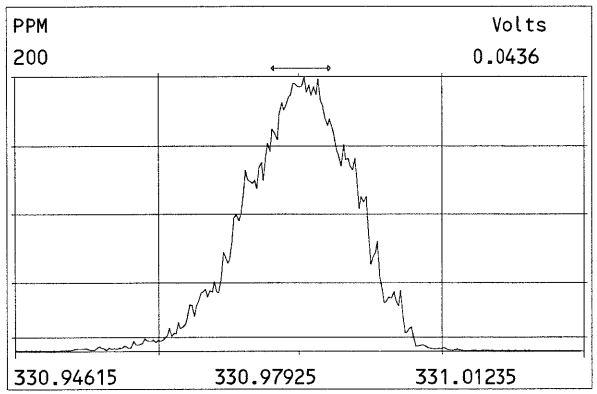


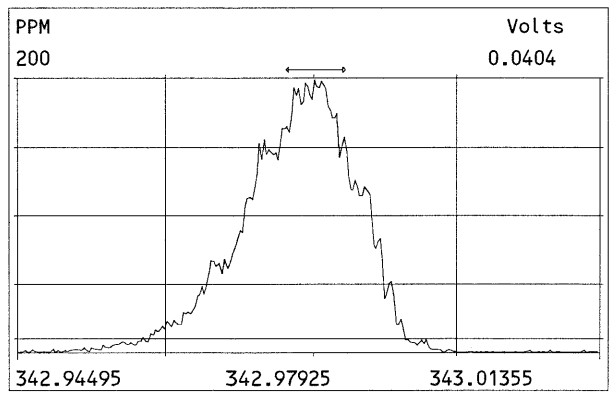




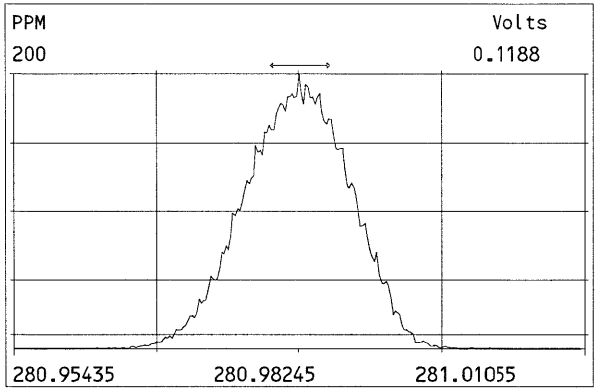


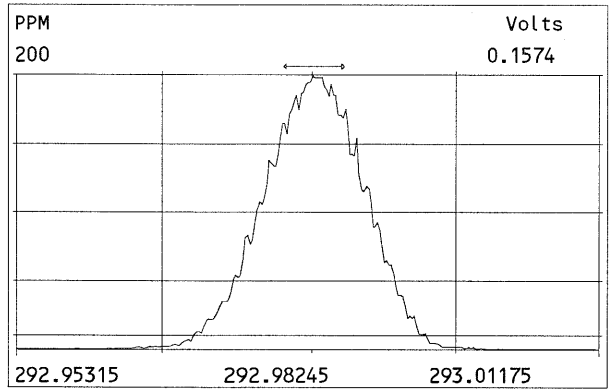


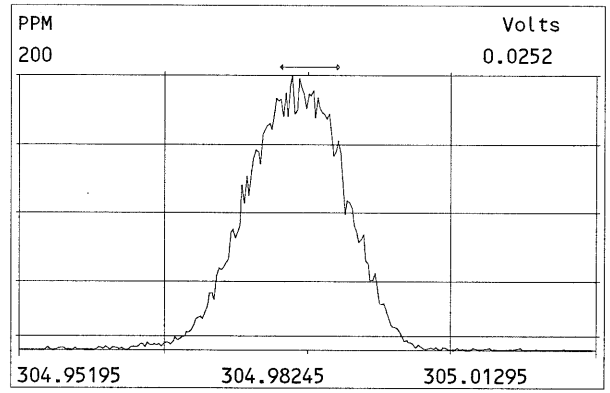


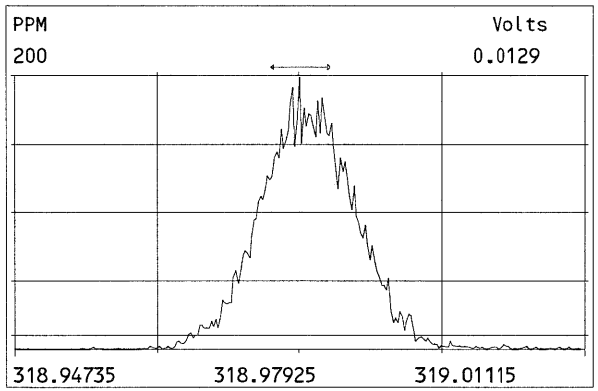


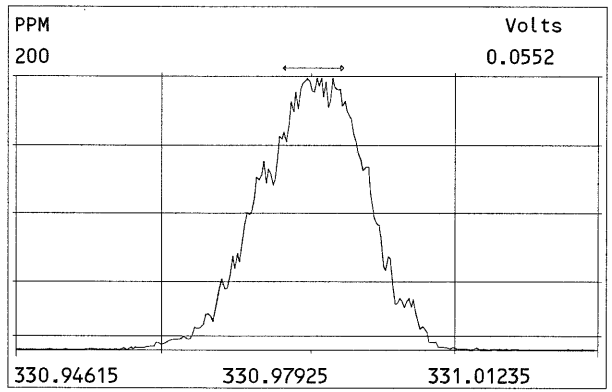
Peak Locate Examination: 4-APR-2018:16:39 File:04APR18Z
Experiment:1668PCB Function:4 Reference:PFK

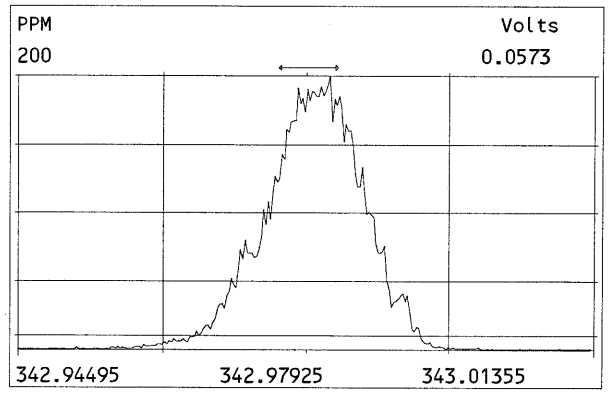


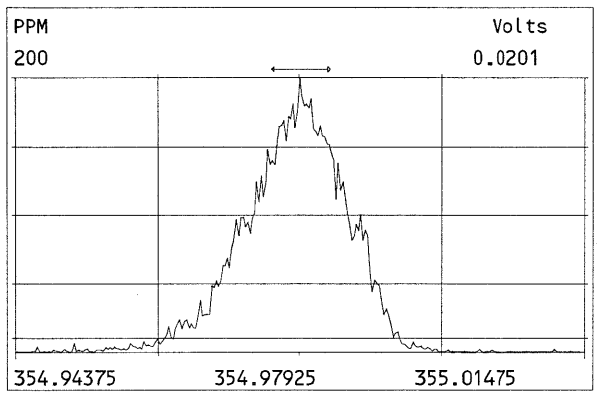


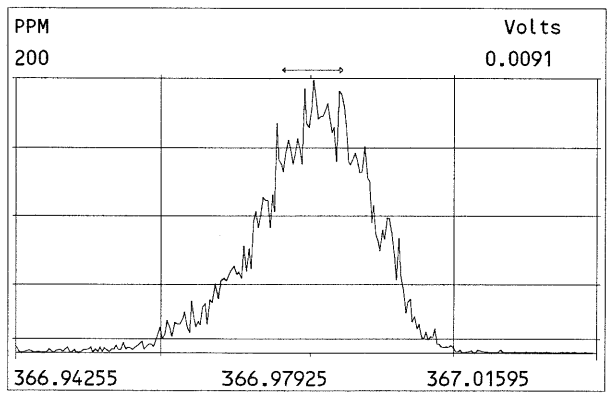


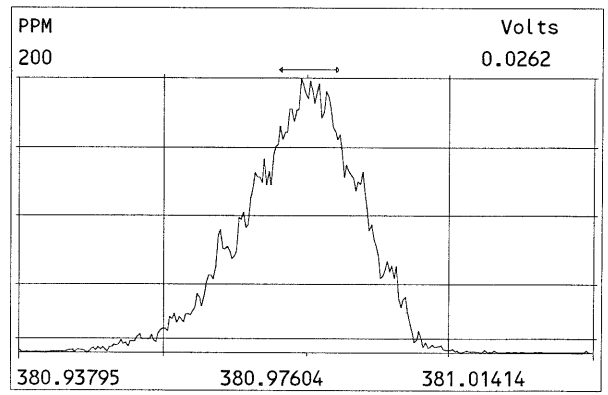




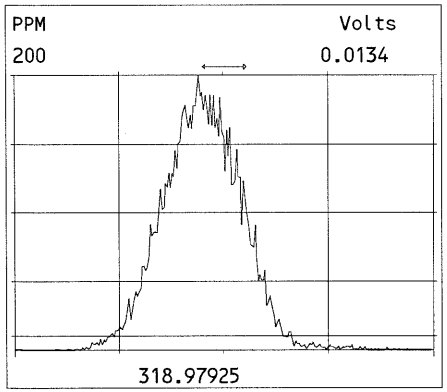


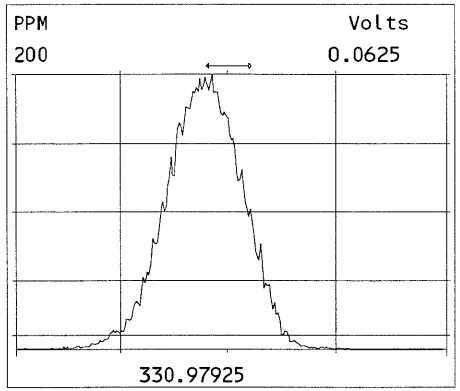


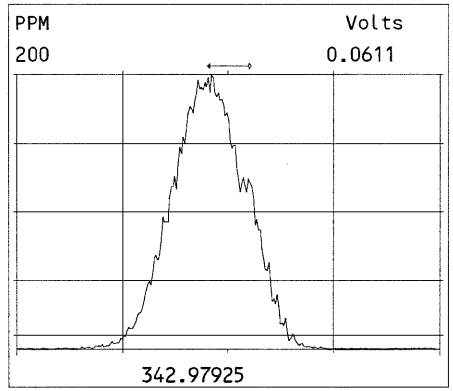


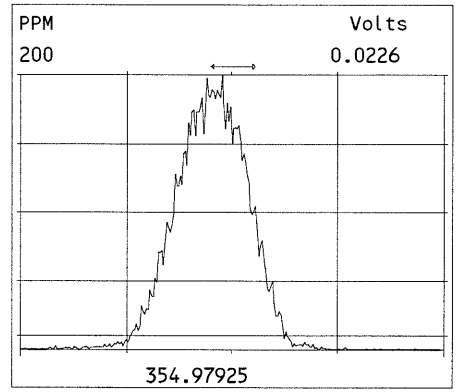


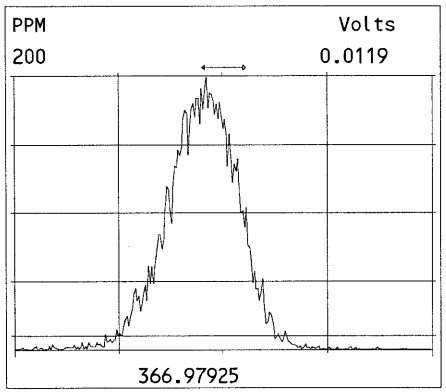
Peak Locate Examination: 4-APR-2018:16:39 File:04APR18Z
Experiment:1668PCB Function:5 Reference:PFK

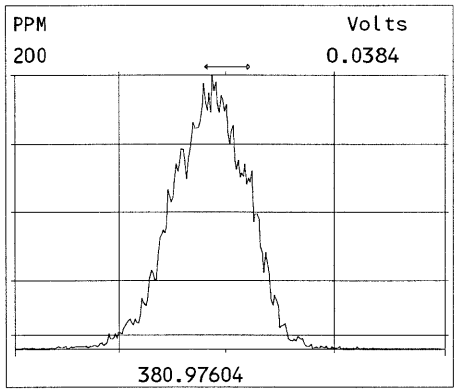


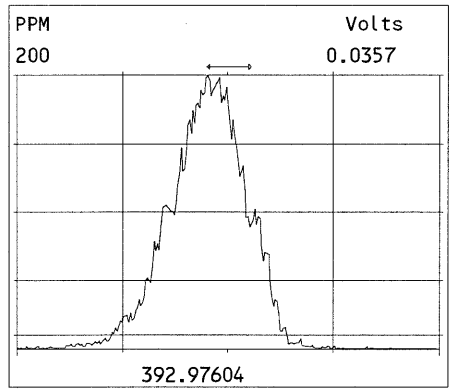


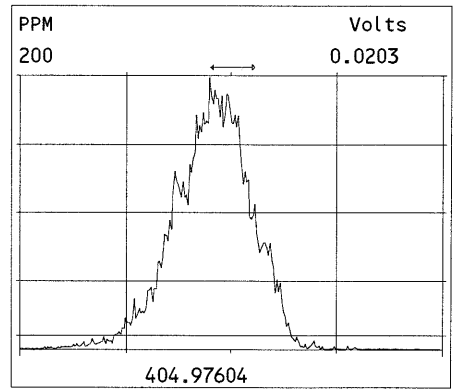


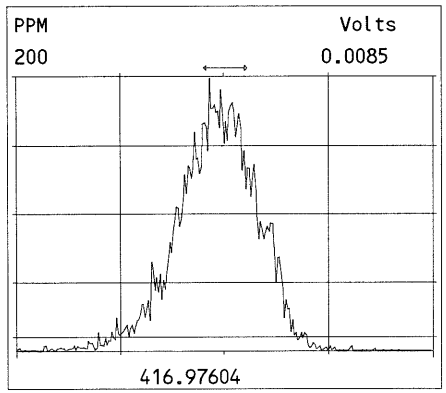


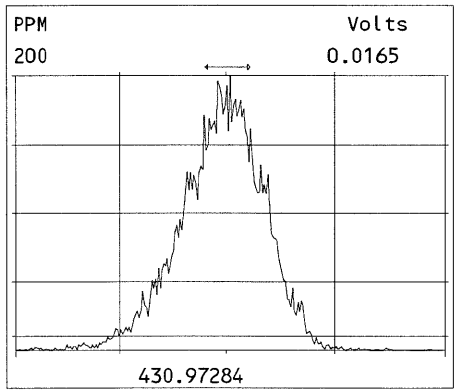


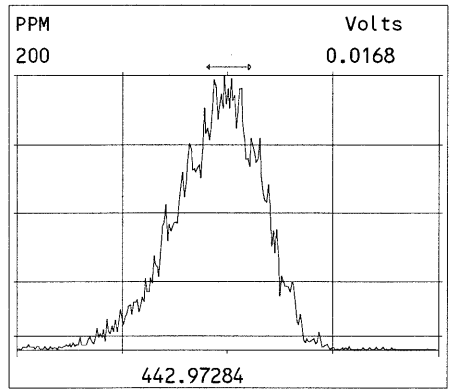




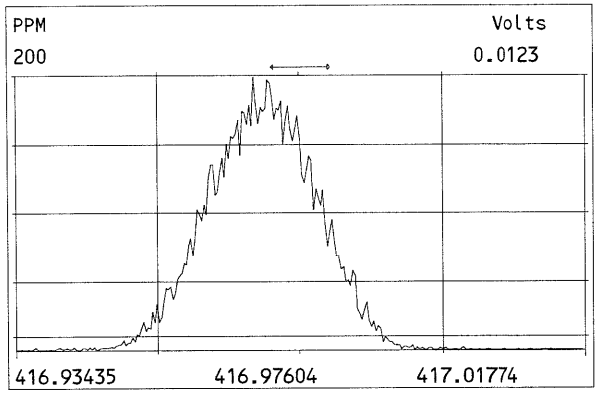


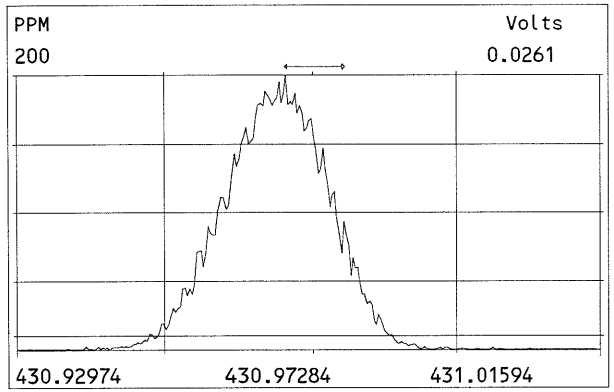


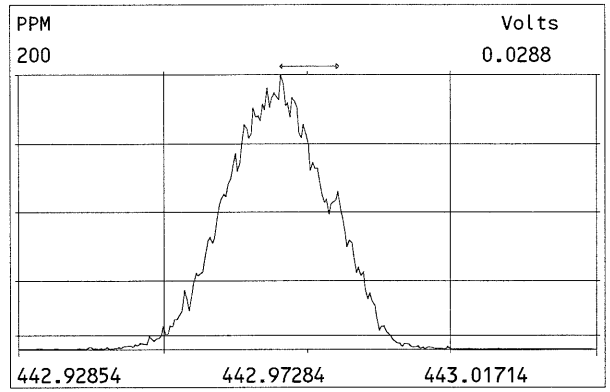


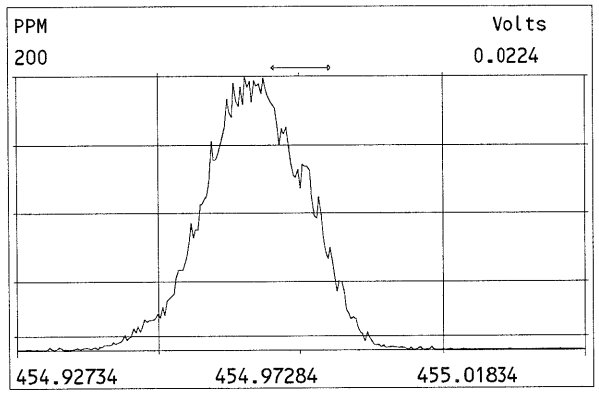


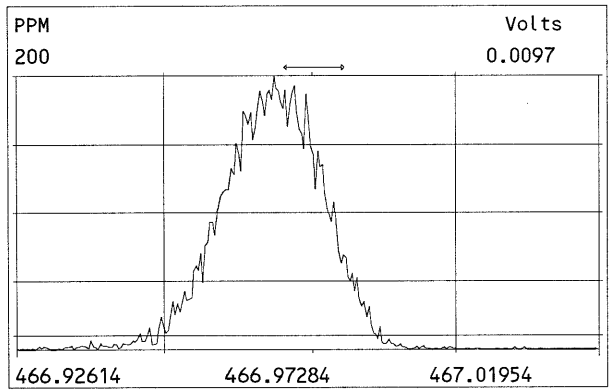
Peak Locate Examination: 4-APR-2018:16:40 File:04APR18Z
Experiment:1668PCB Function:6 Reference:PFK

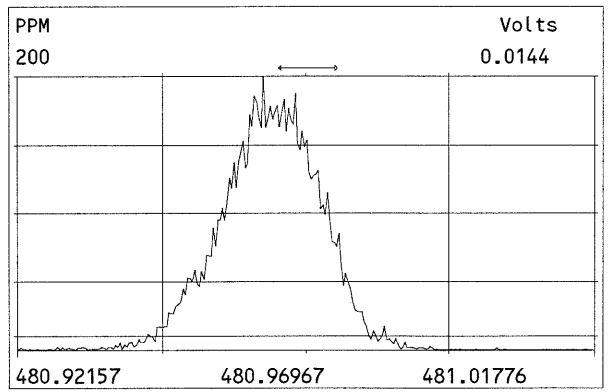


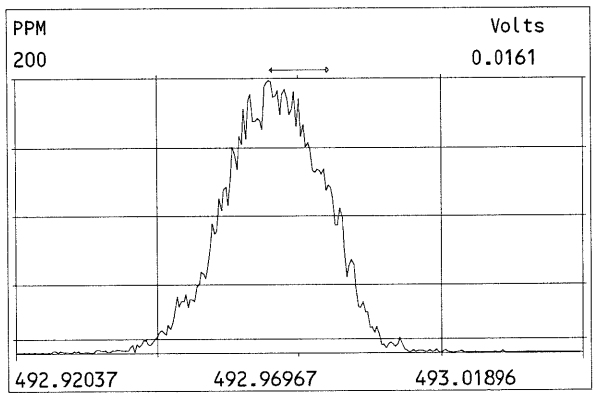


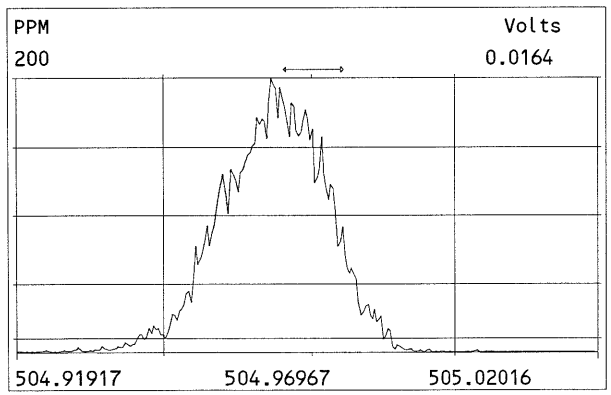


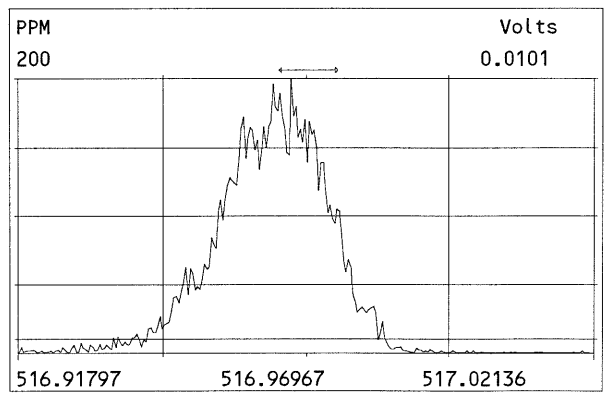




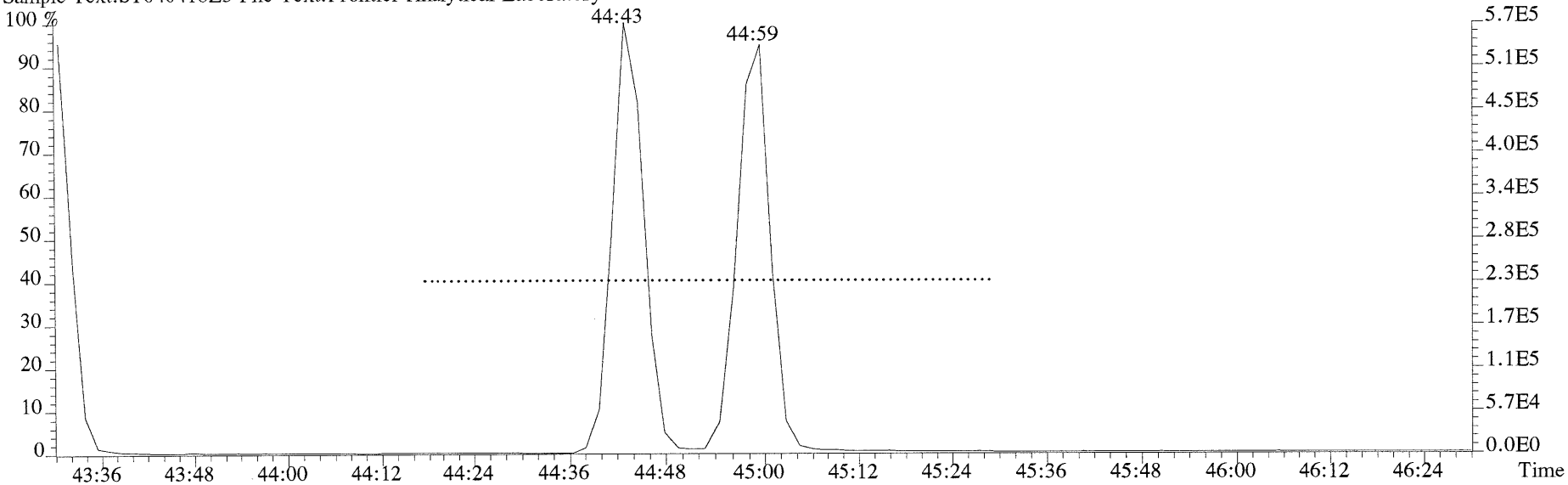




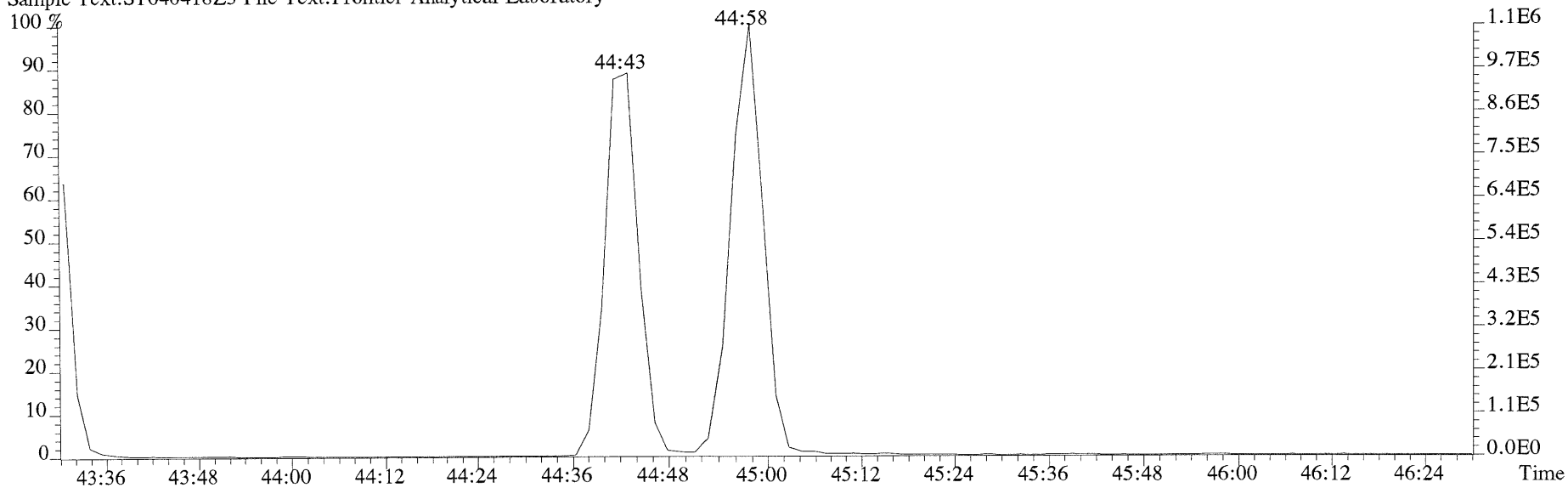




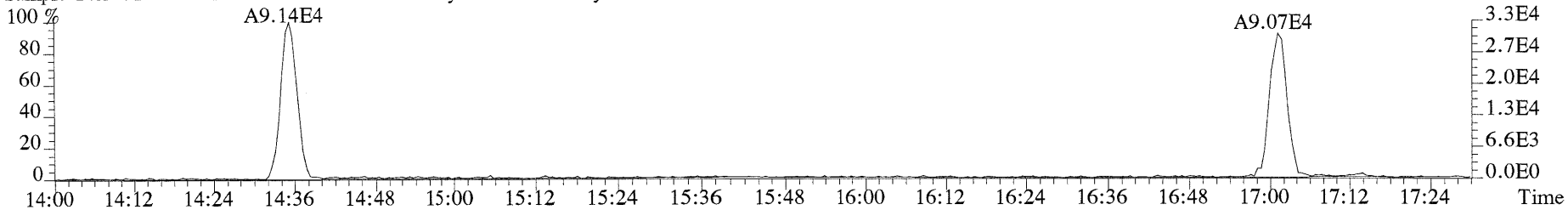
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory

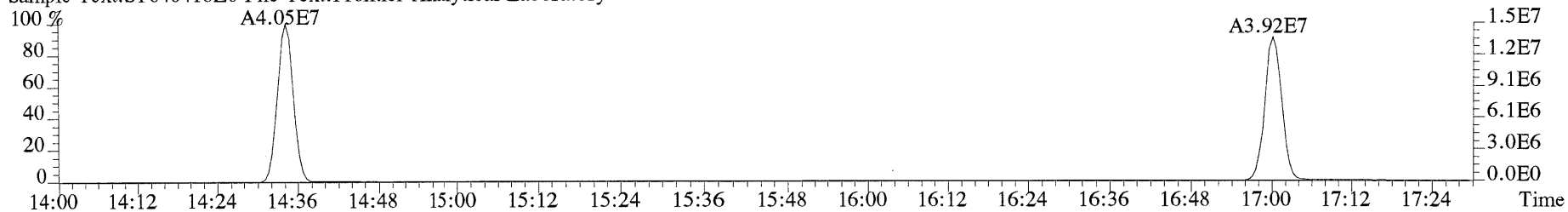


File:04APR18Z #1-784 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory

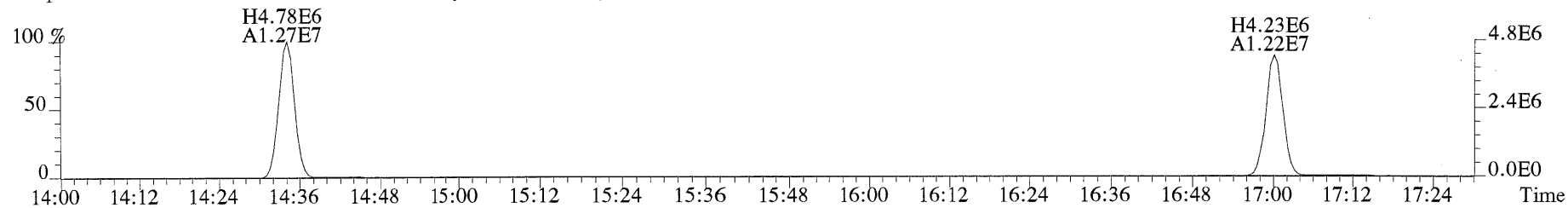


File:04APR18Z #1-784 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory

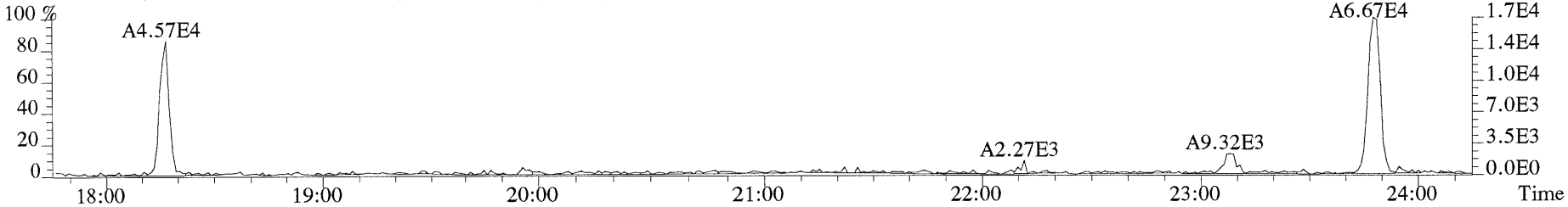
File:04APR18Z #1-784 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



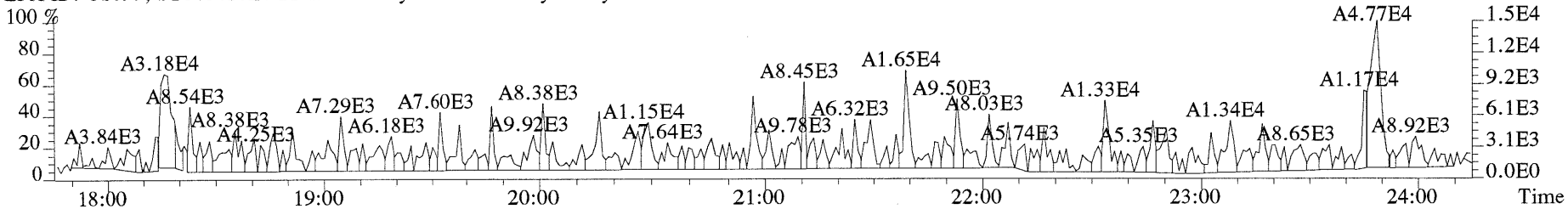
File:04APR18Z #1-784 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



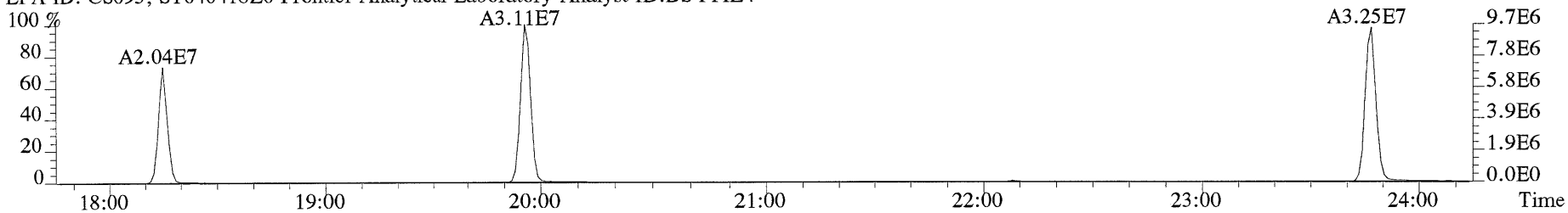
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID: CS095; ST040418Z0 Frontier Analytical Laboratory Analyst ID:BS FAL4



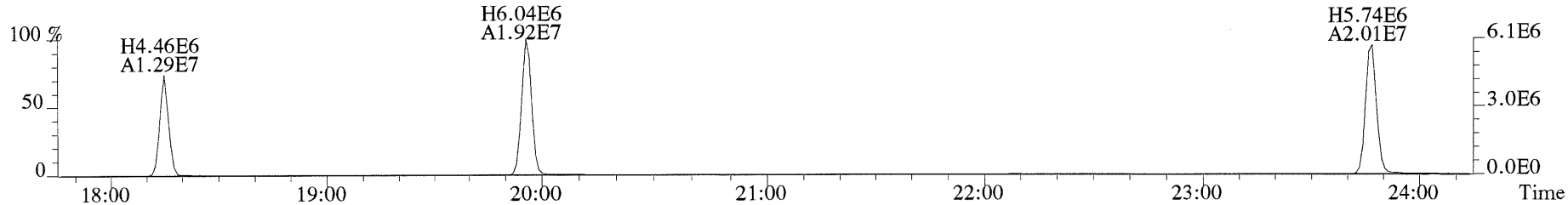
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID: CS095; ST040418Z0 Frontier Analytical Laboratory Analyst ID:BS FAL4



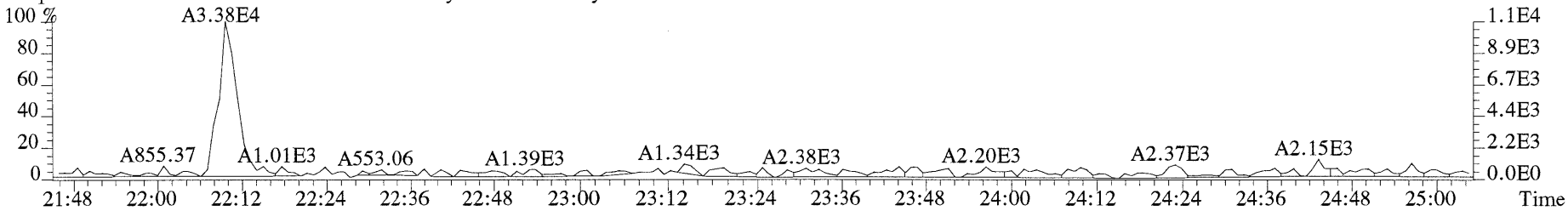
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID: CS095; ST040418Z0 Frontier Analytical Laboratory Analyst ID:BS FAL4



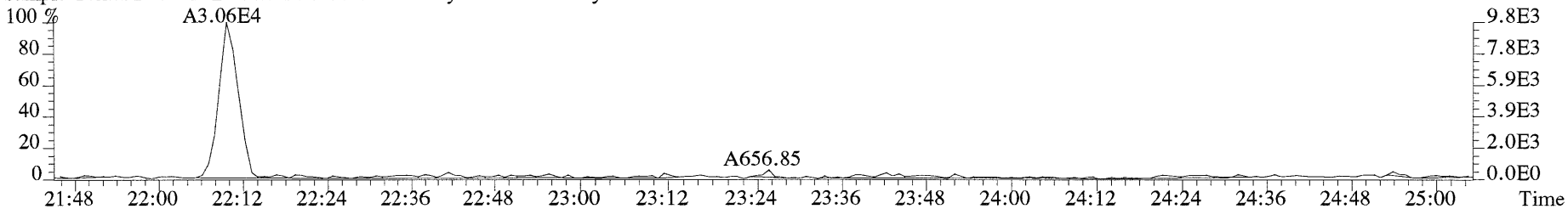
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID: CS095; ST040418Z0 Frontier Analytical Laboratory Analyst ID:BS FAL4



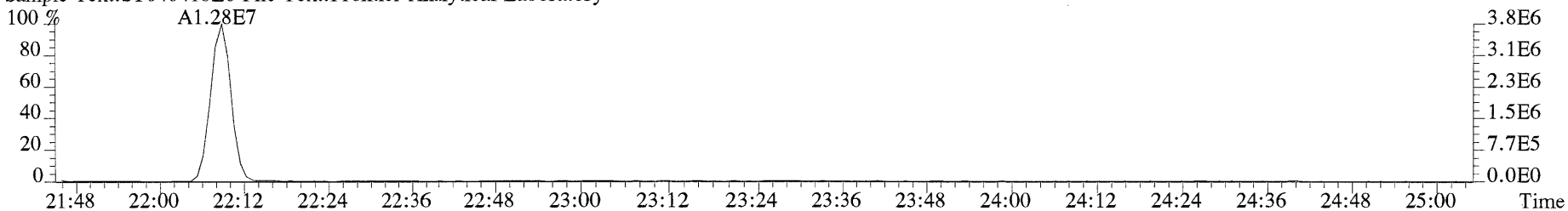
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



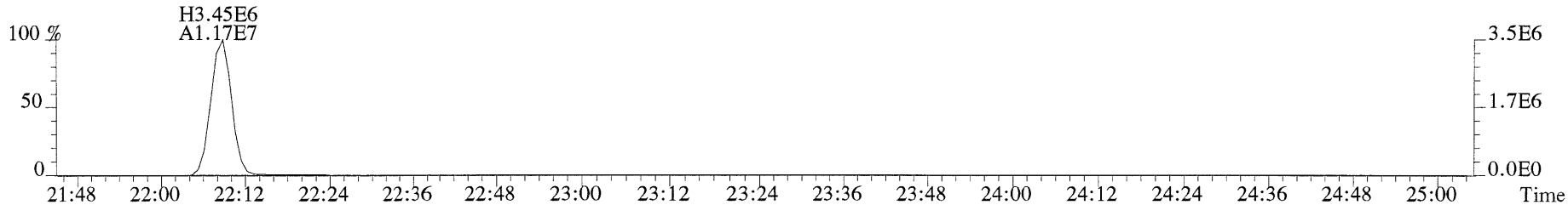
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



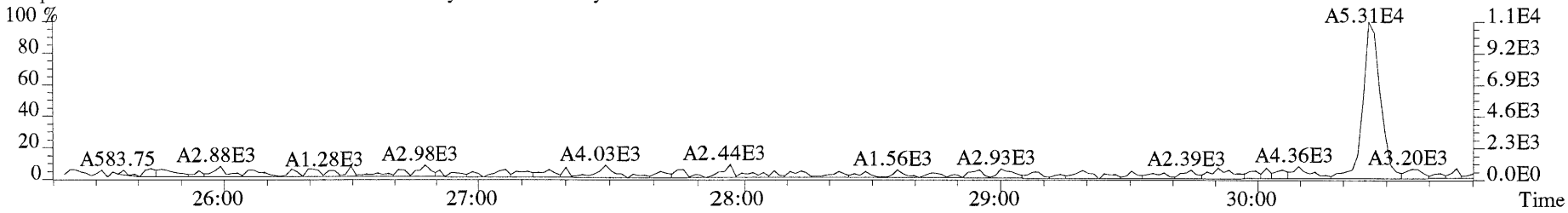
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



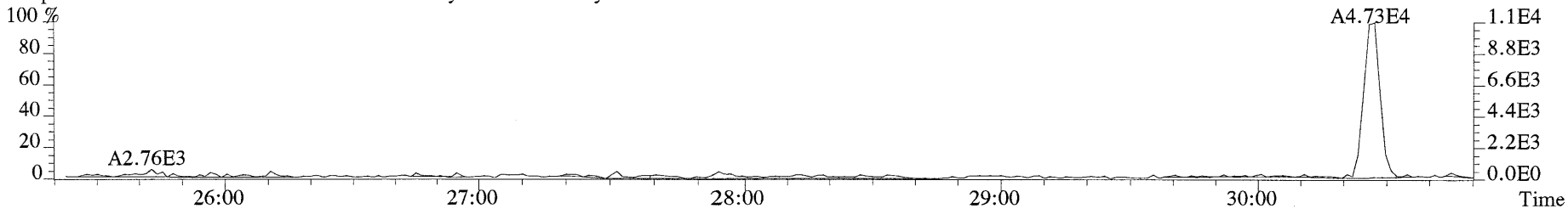
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



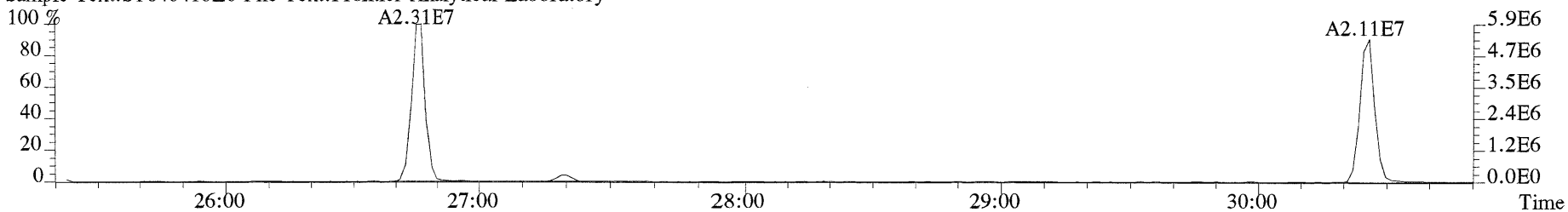
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



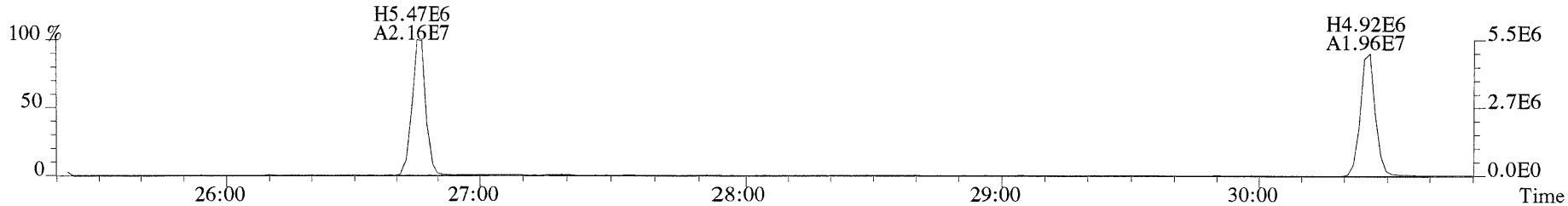
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



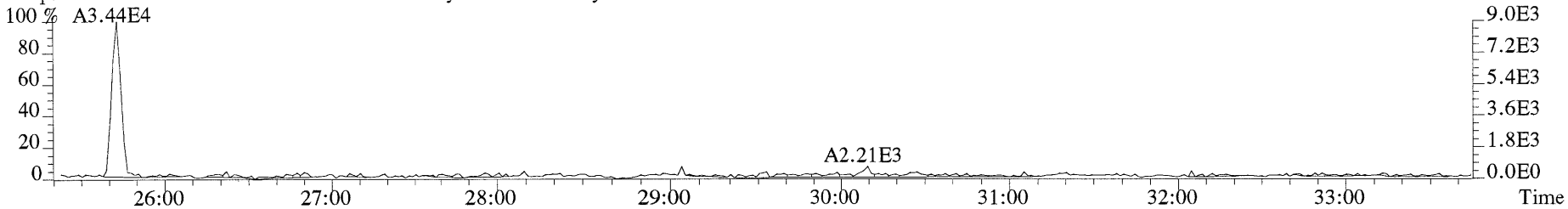
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



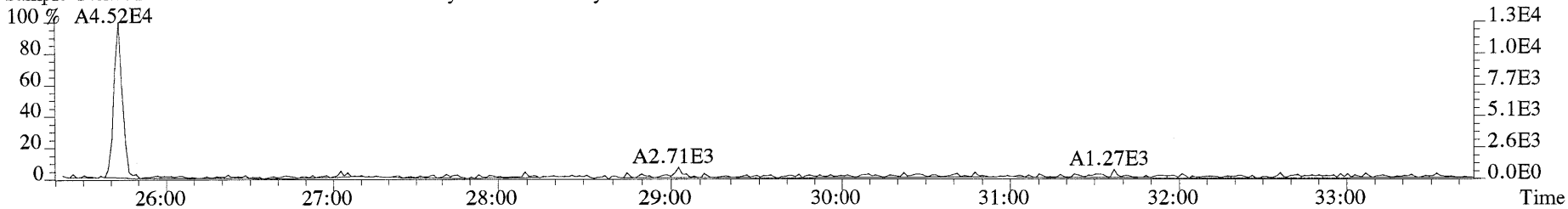
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



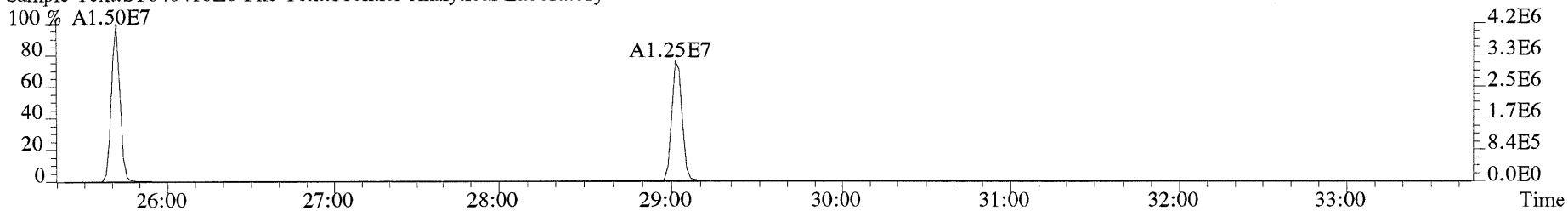
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



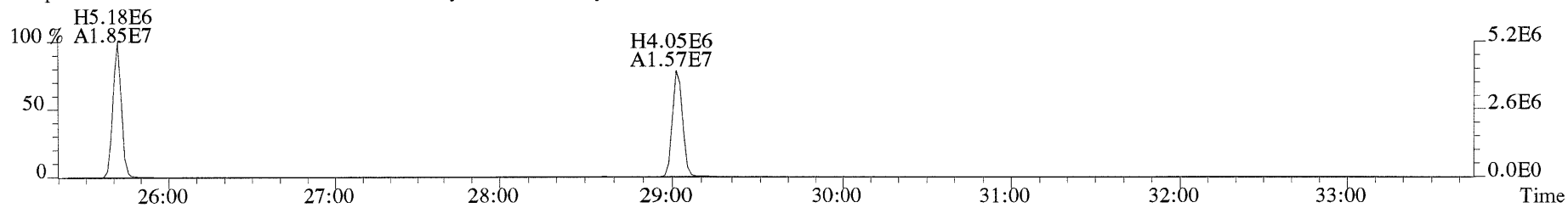
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



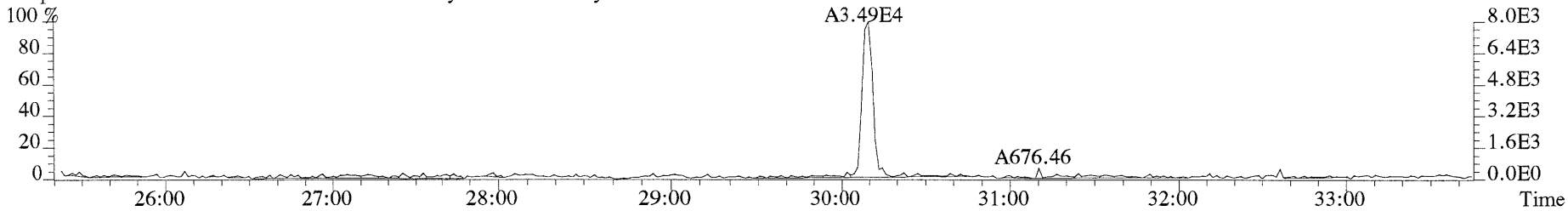
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



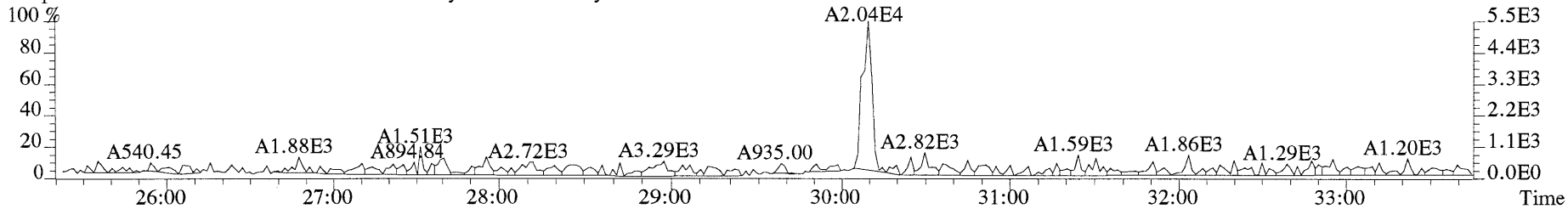
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



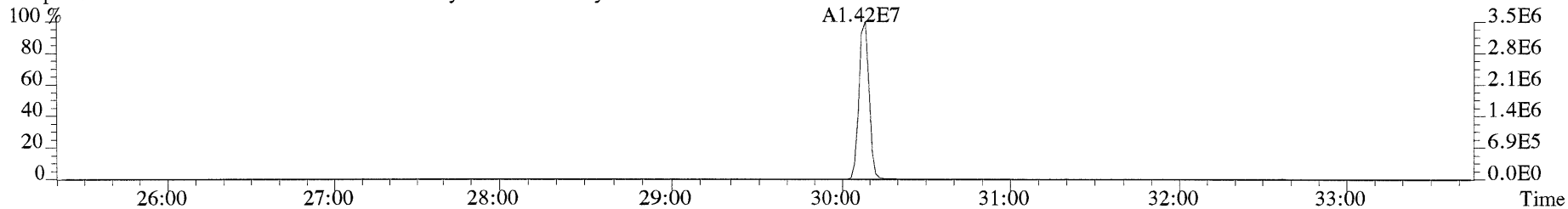
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



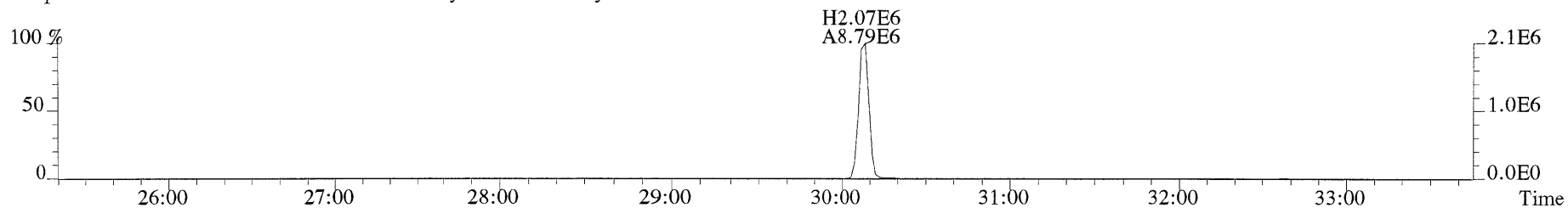
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



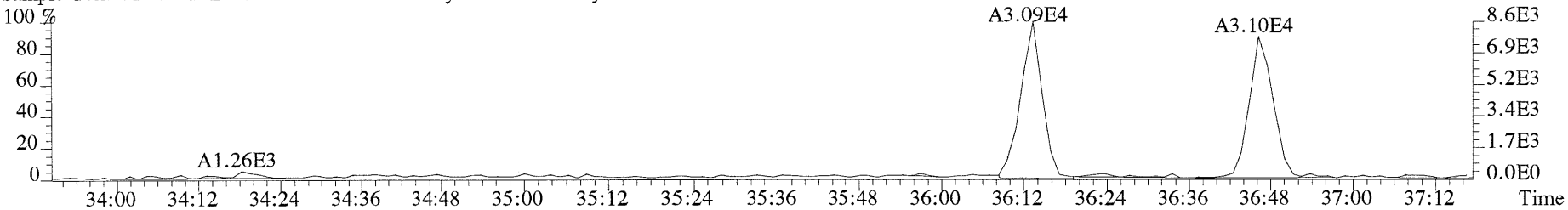
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



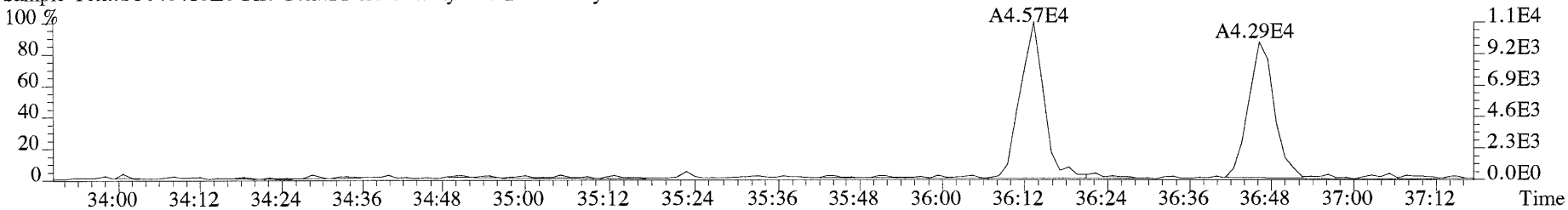
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



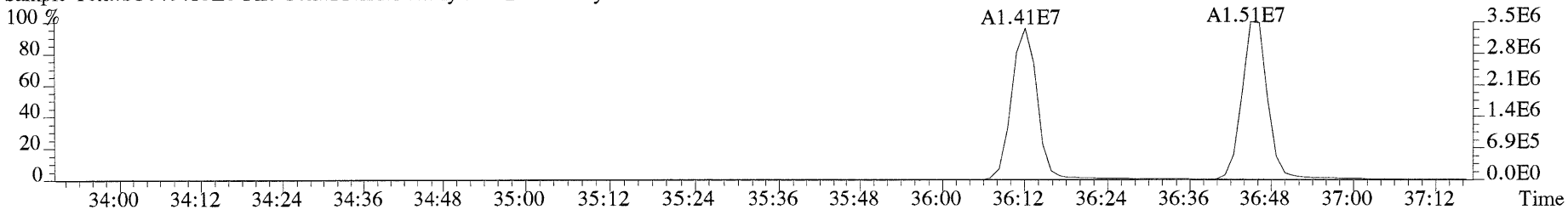
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



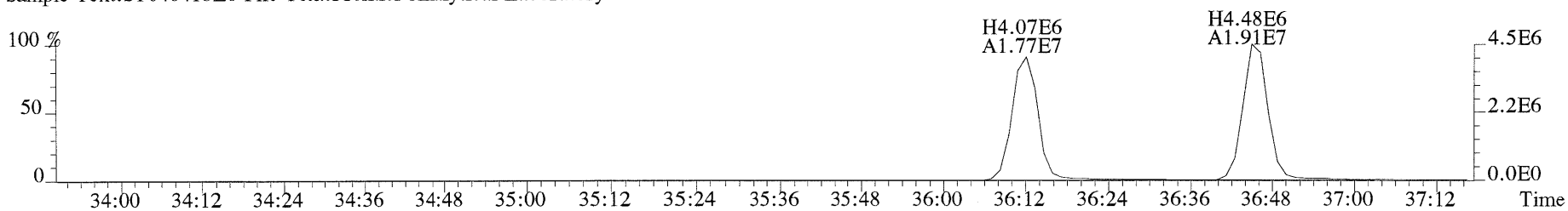
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



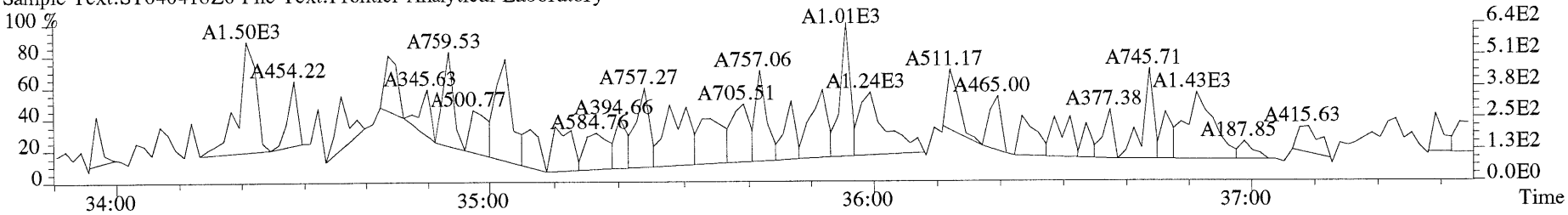
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



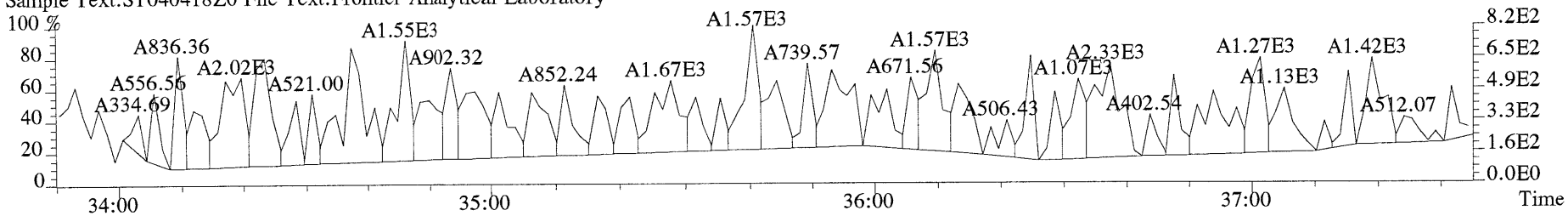
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



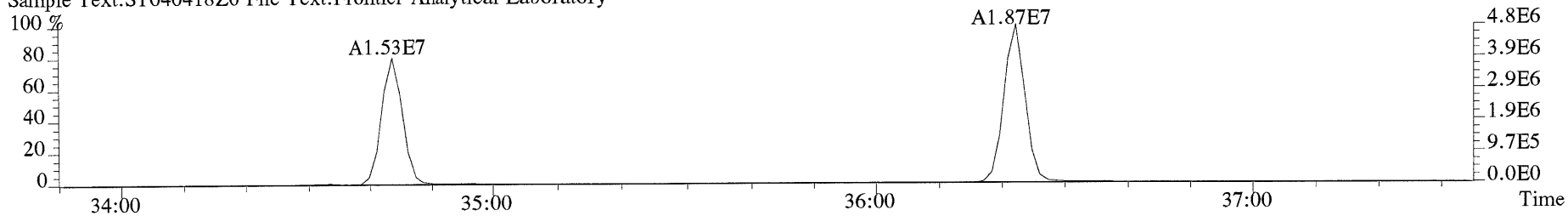
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



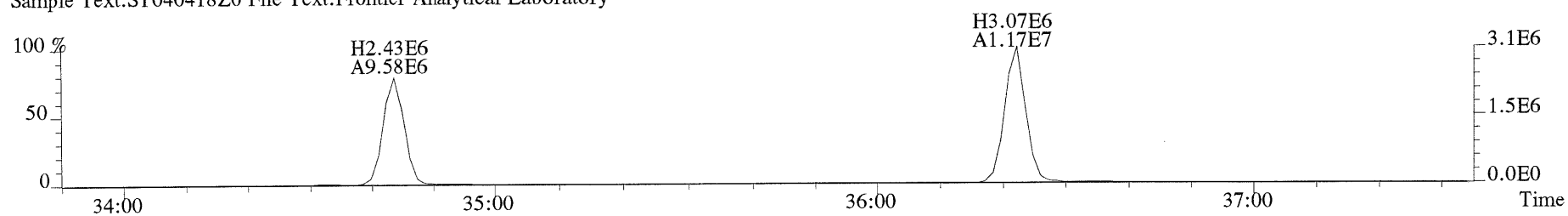
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



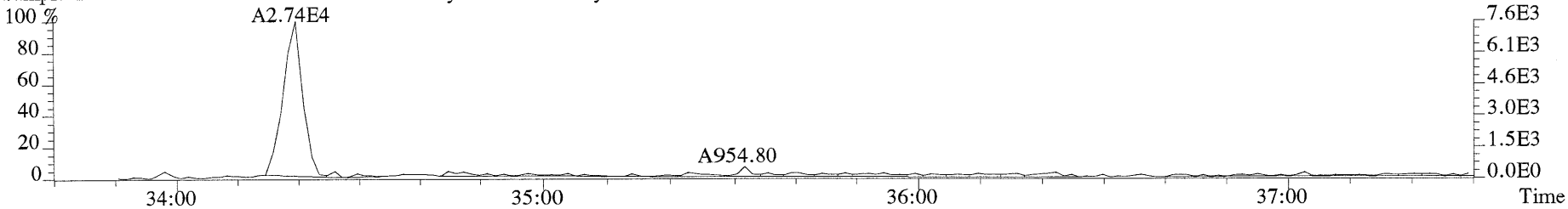
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



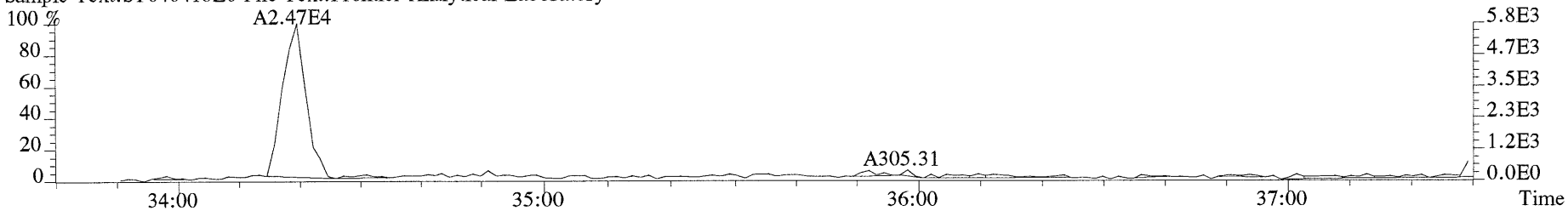
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



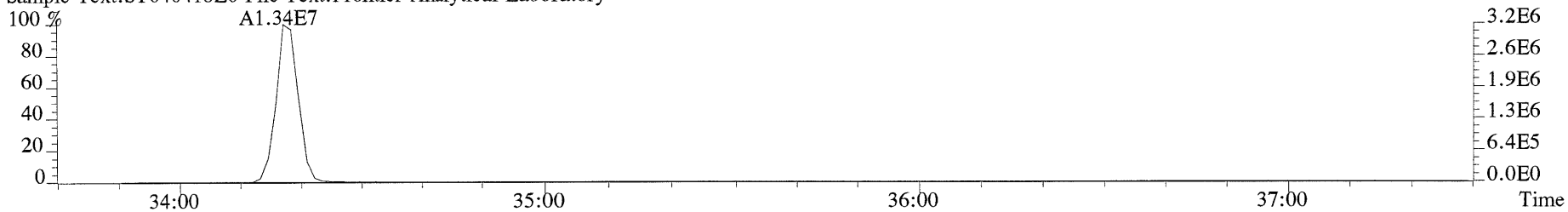
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



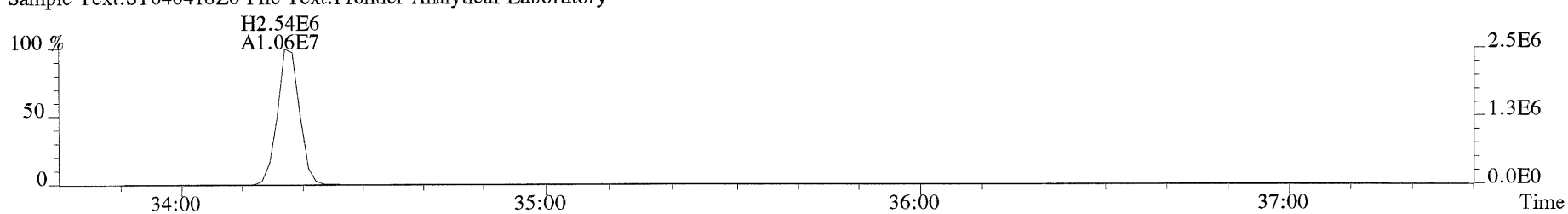
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



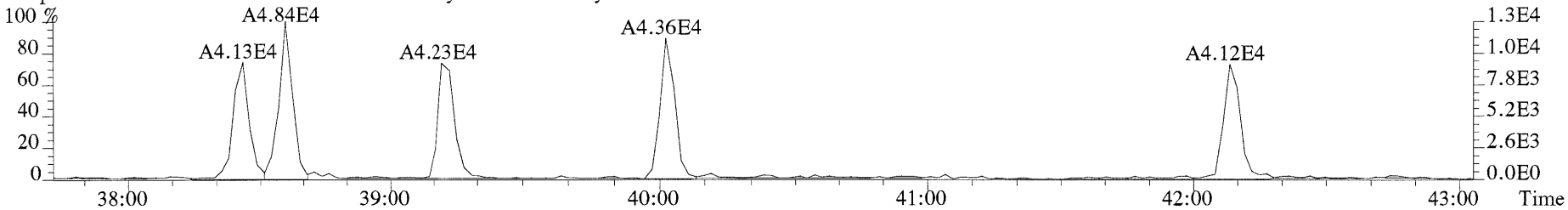
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



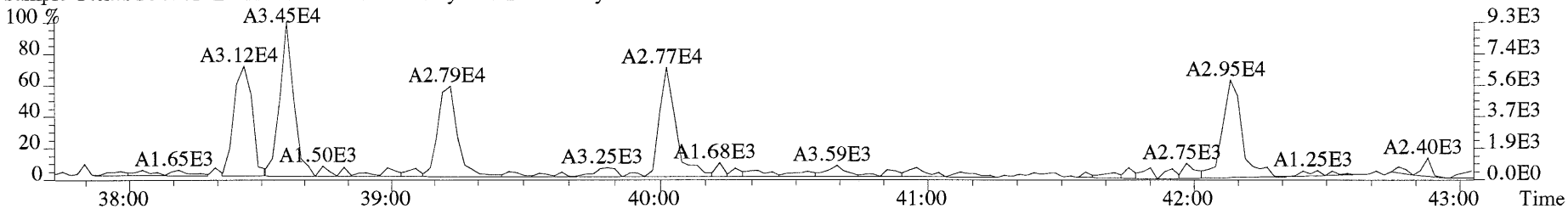
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



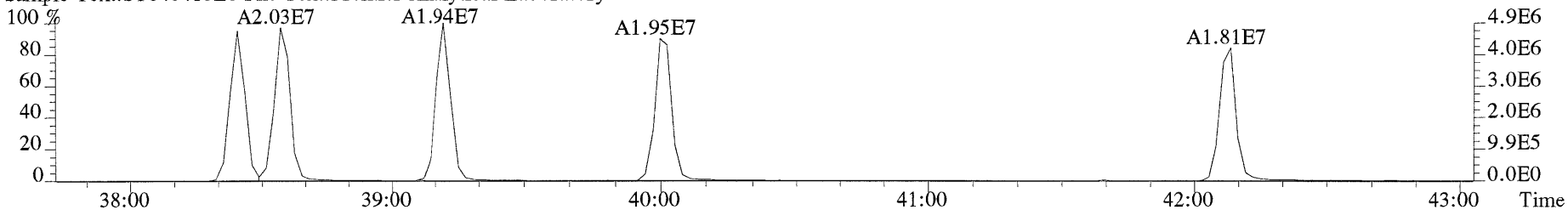
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



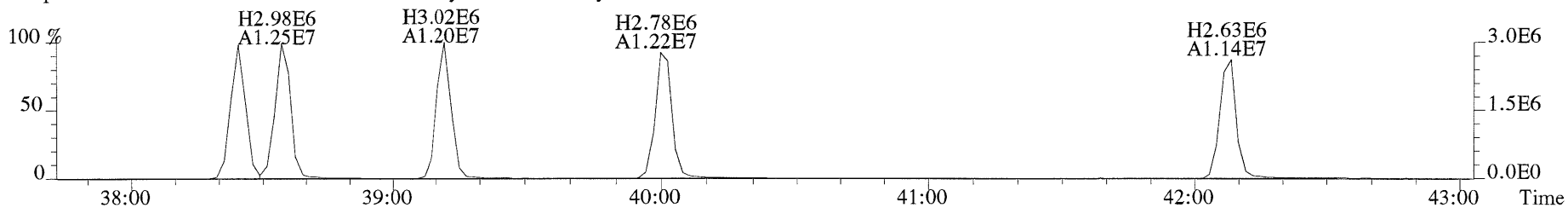
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



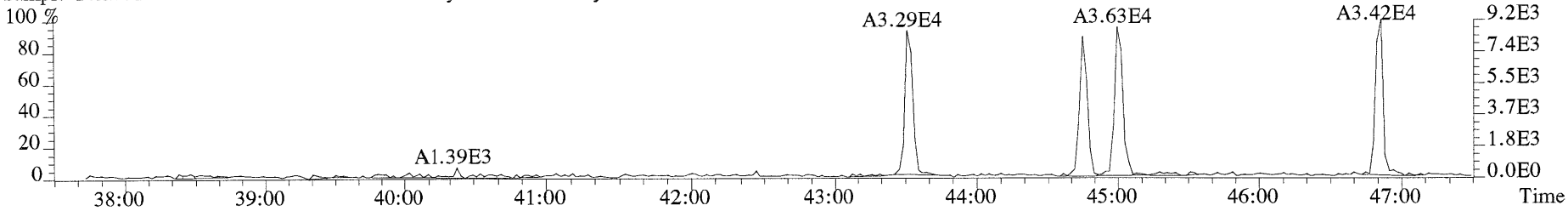
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



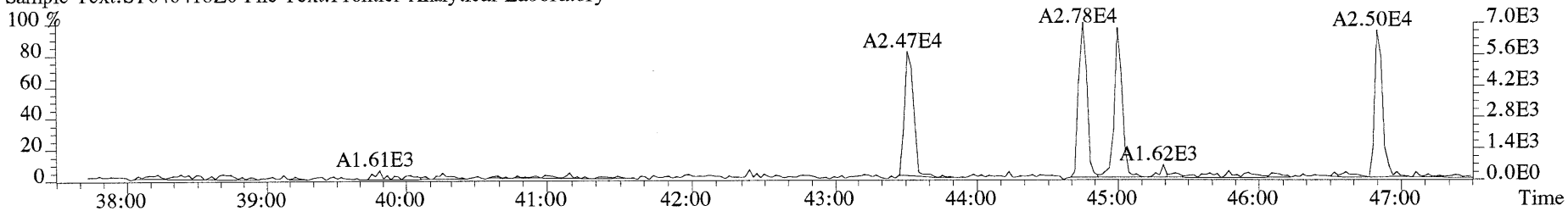
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



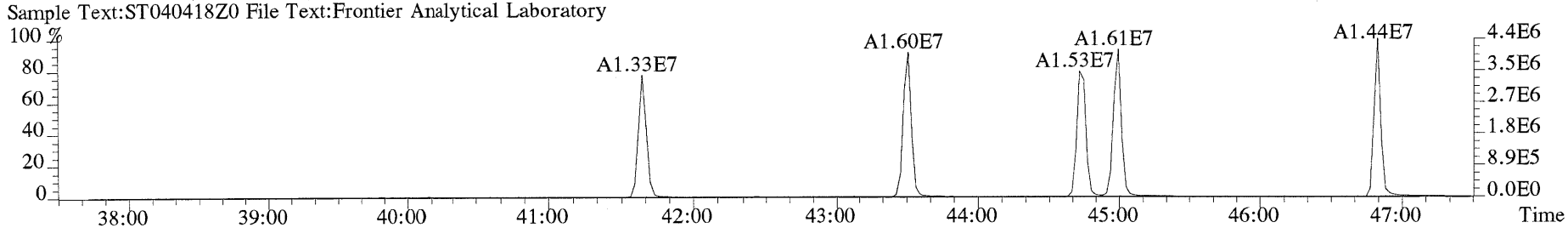
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



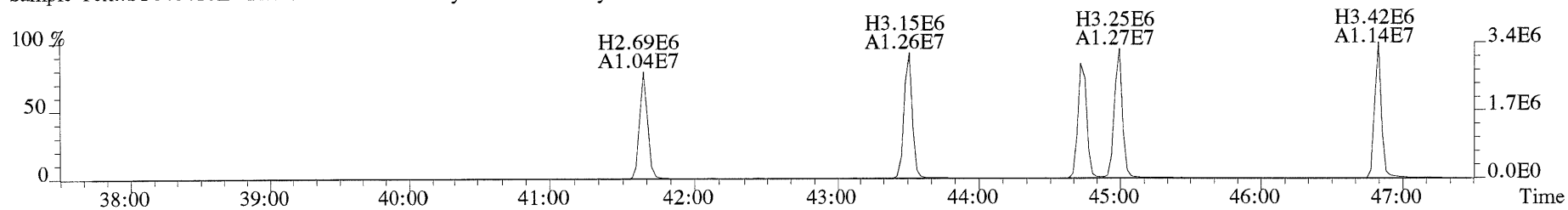
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



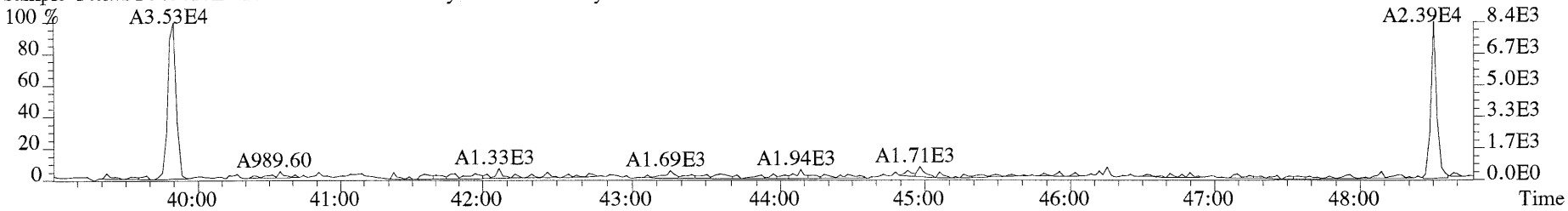
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



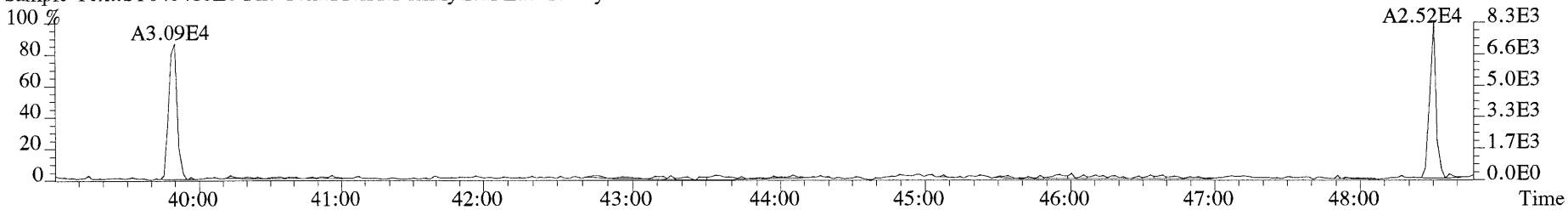
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



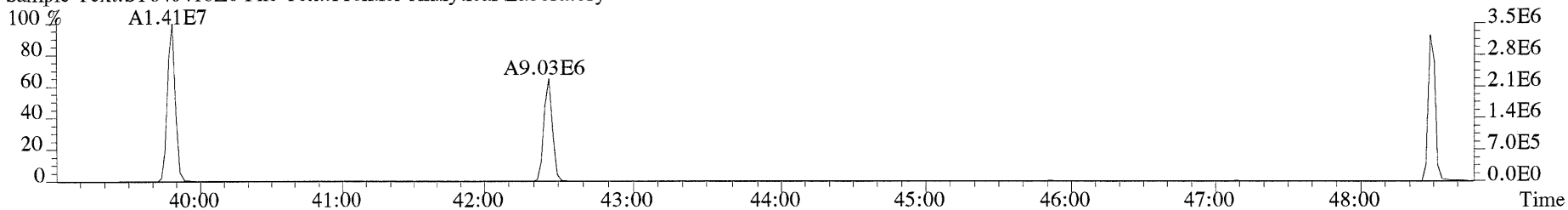
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



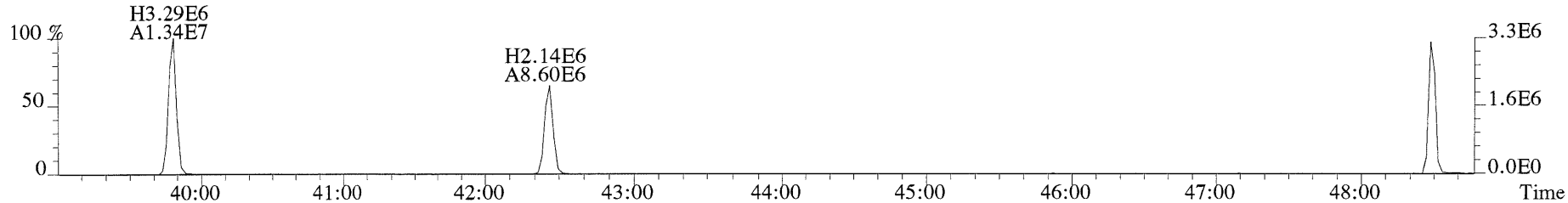
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



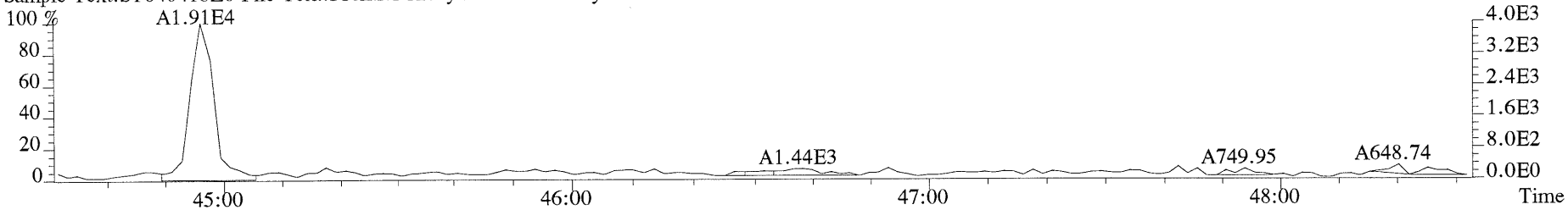
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



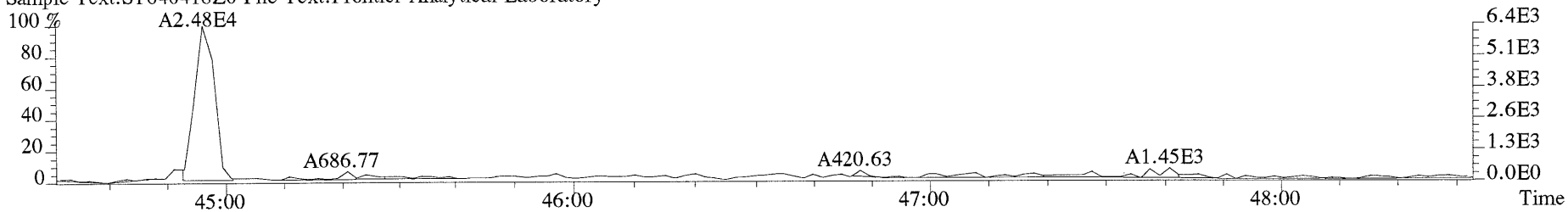
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



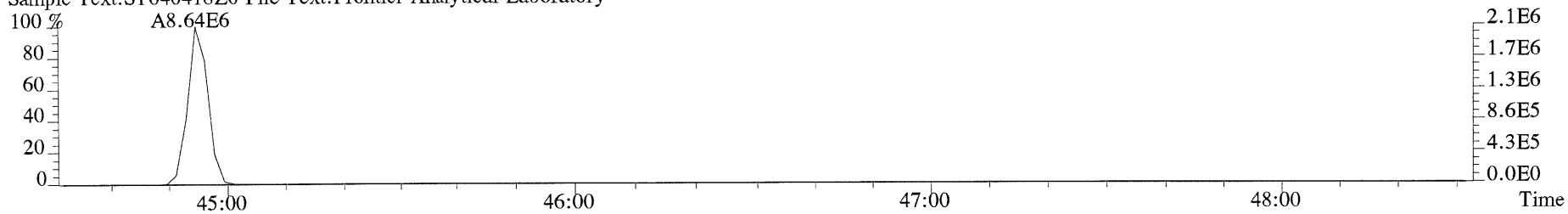
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



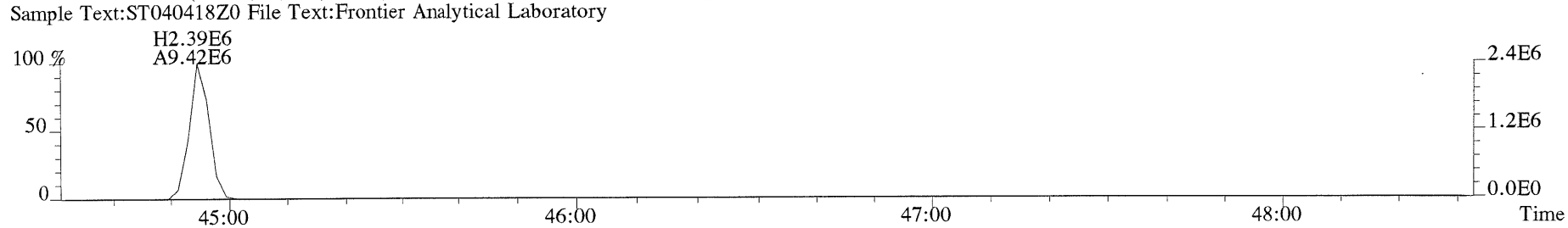
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



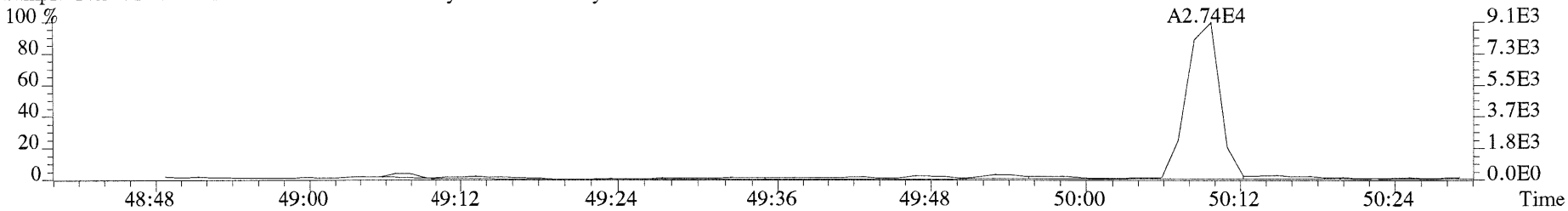
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



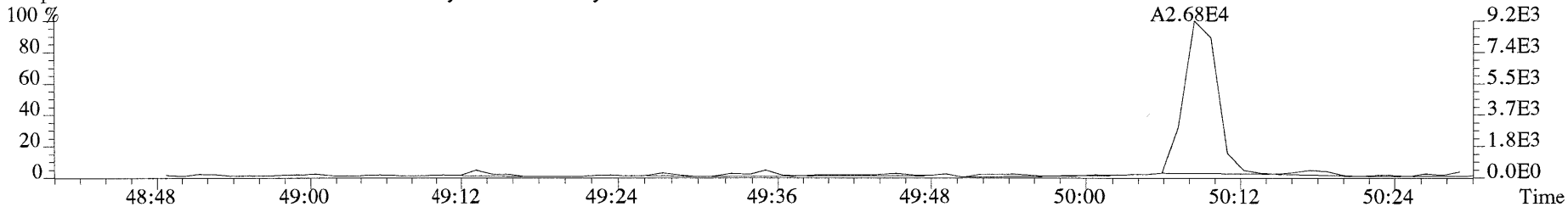
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



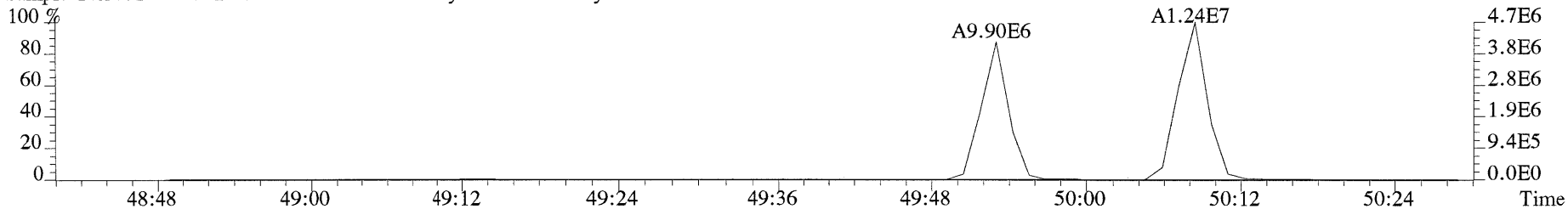
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



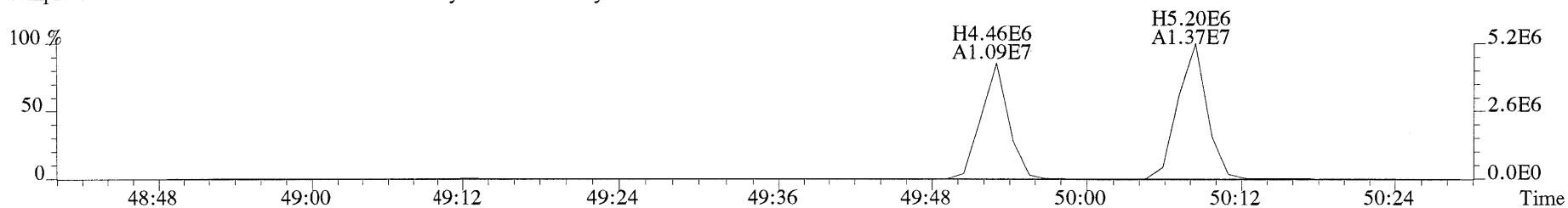
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



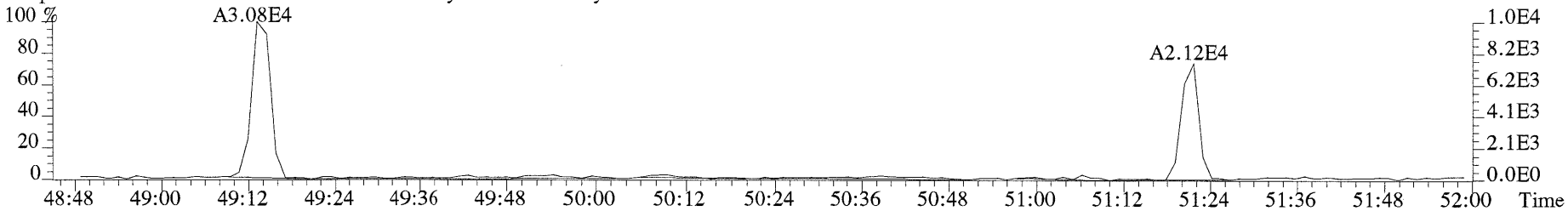
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



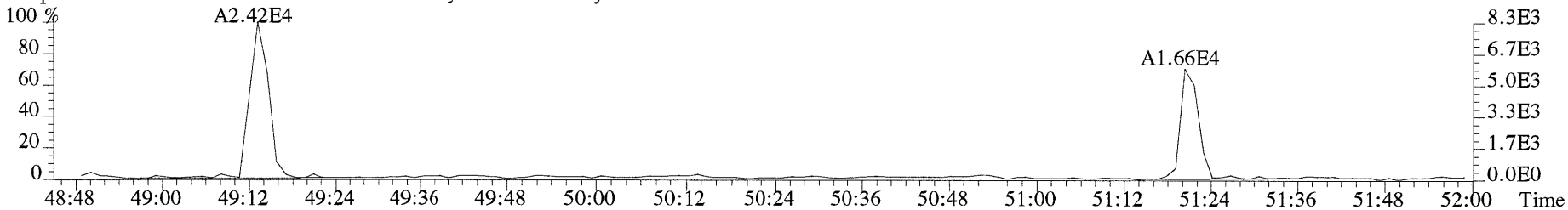
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



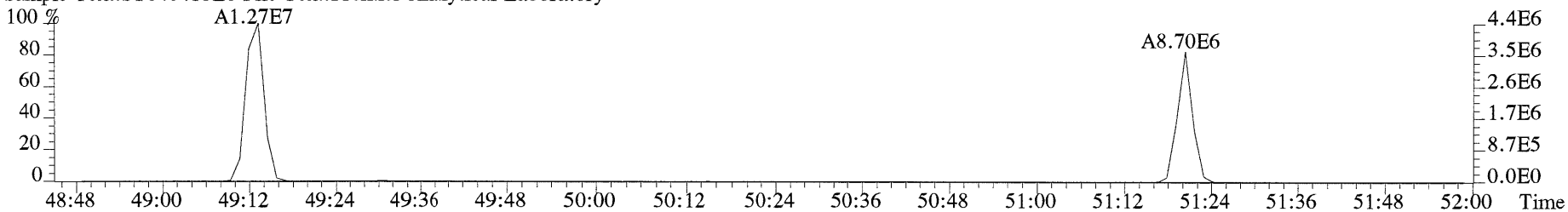
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



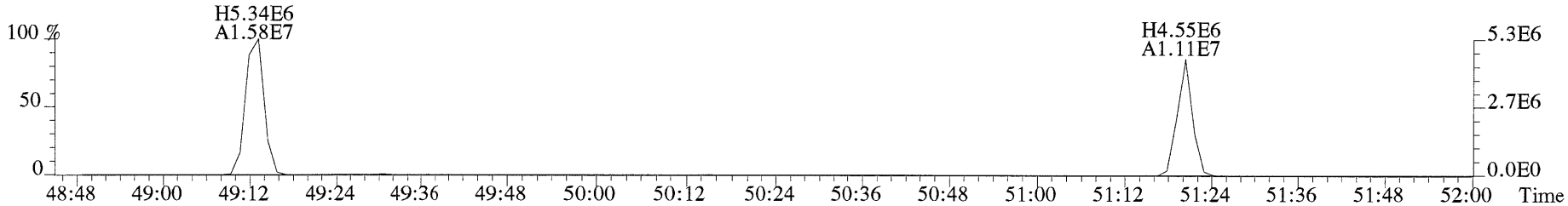
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



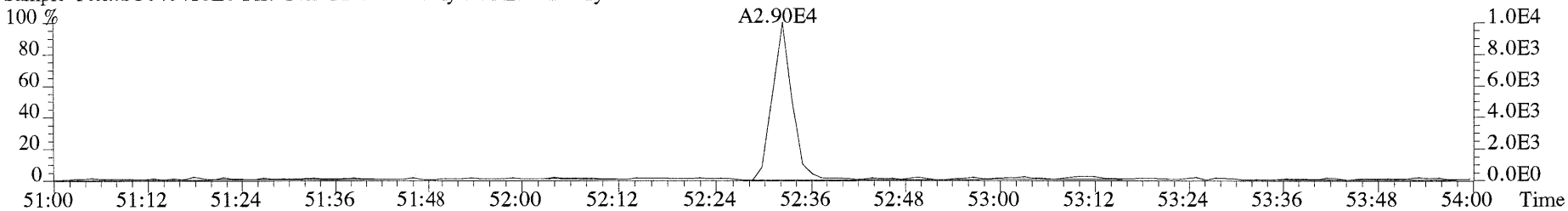
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



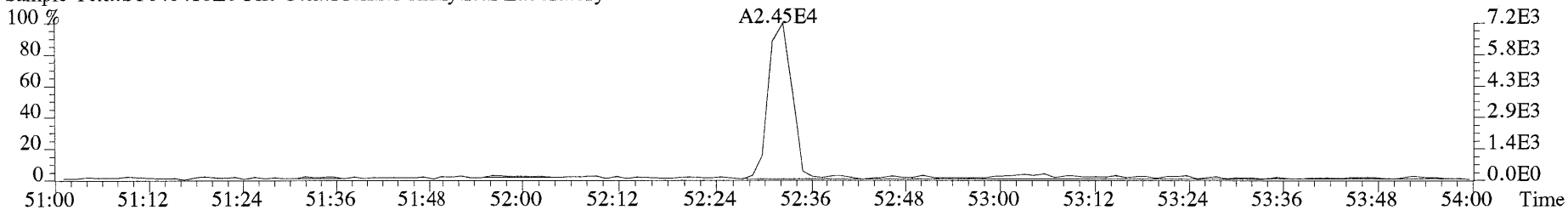
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



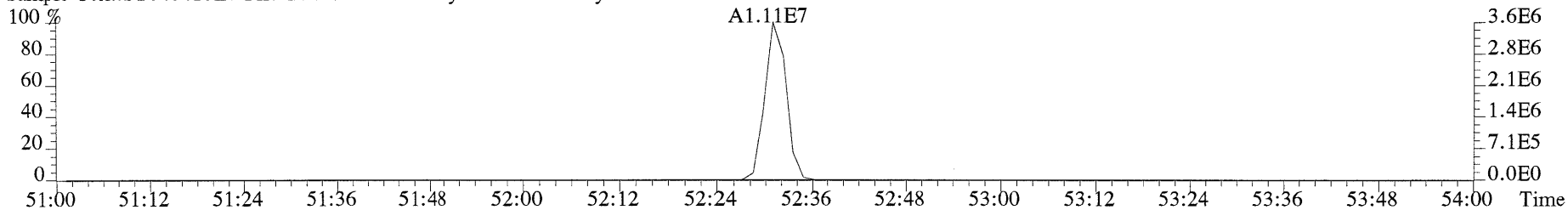
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



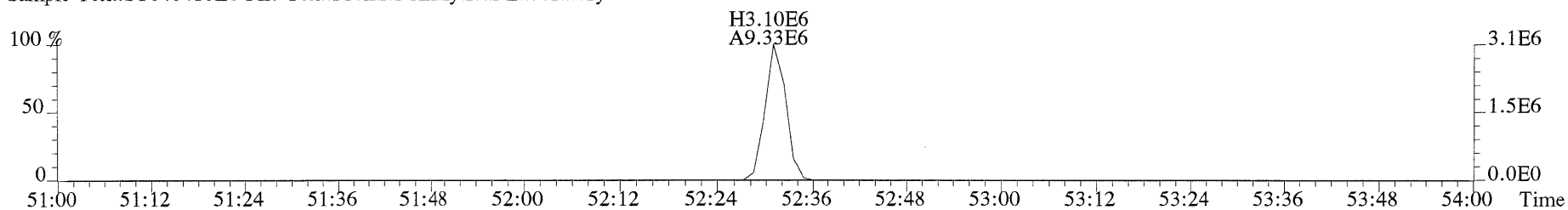
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



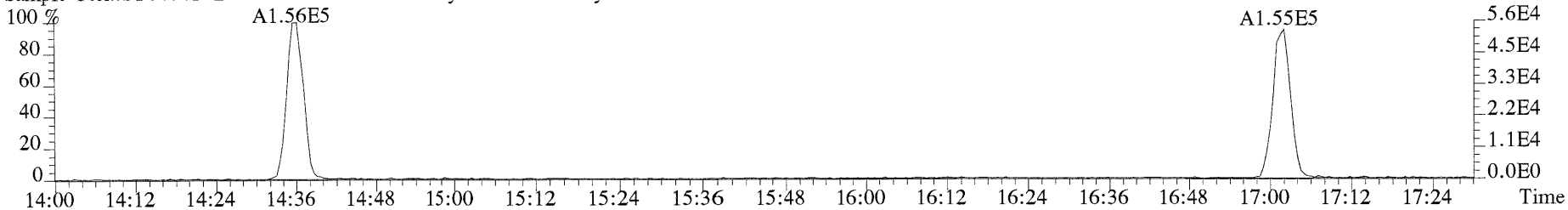
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



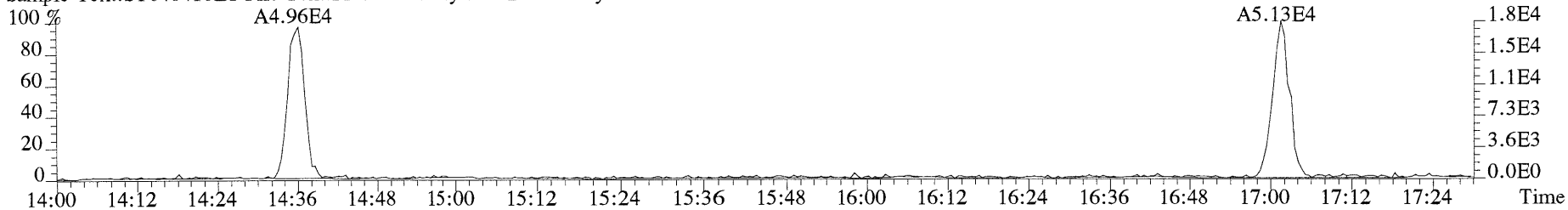
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



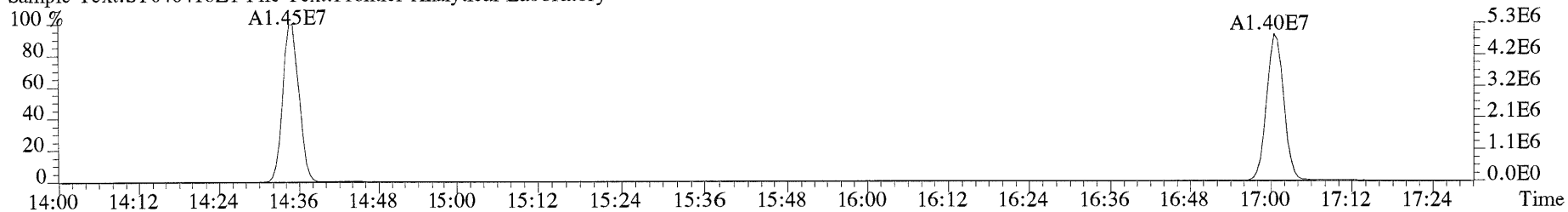
File:04APR18Z #1-784 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



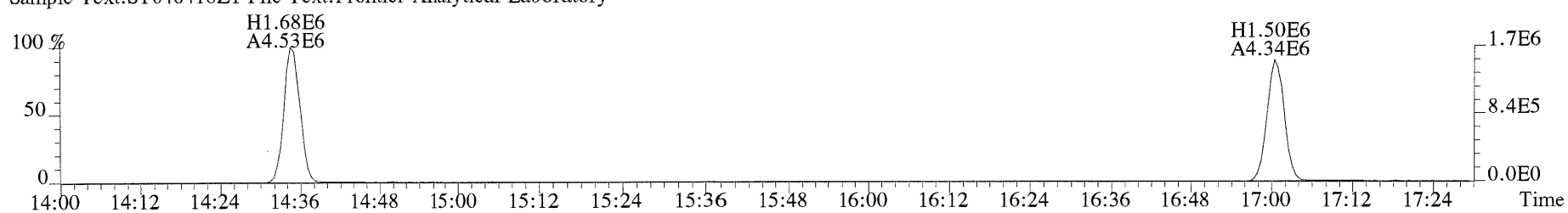
File:04APR18Z #1-784 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



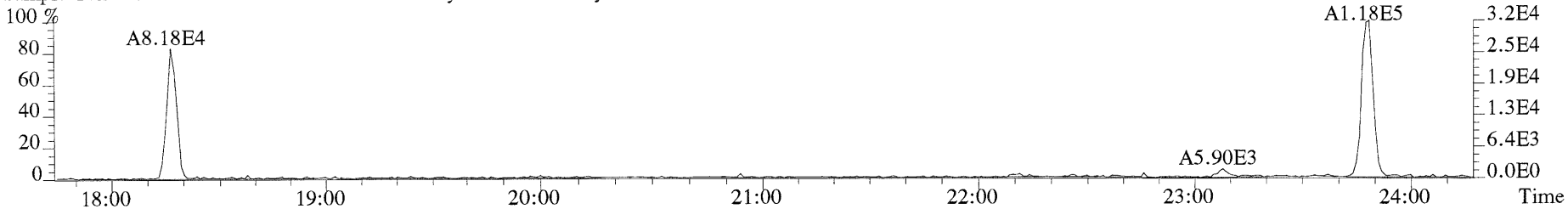
File:04APR18Z #1-784 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



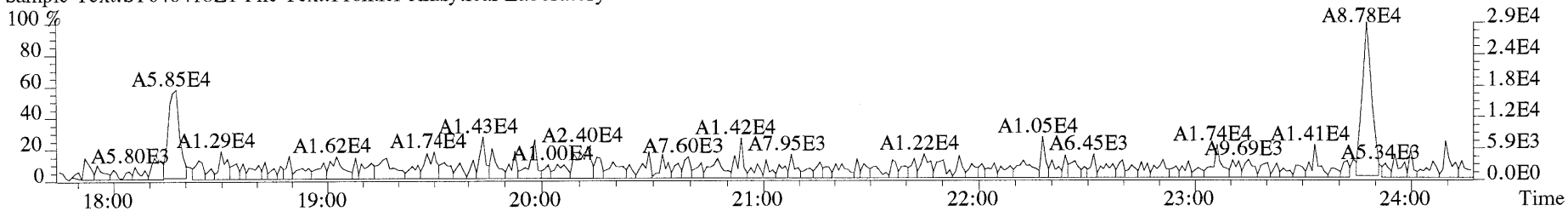
File:04APR18Z #1-784 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



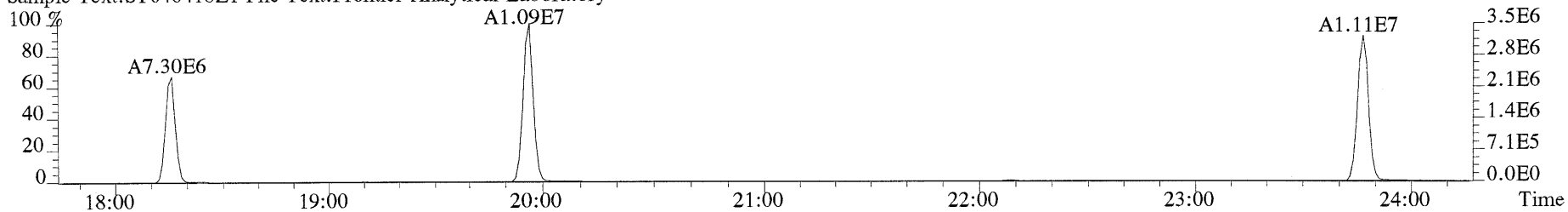
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



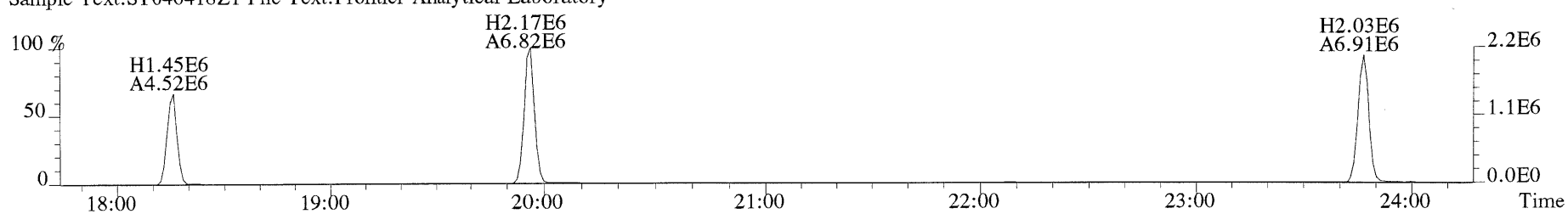
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



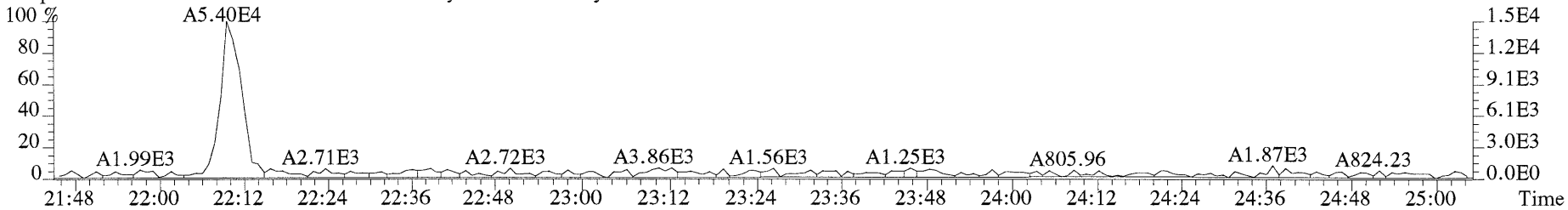
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



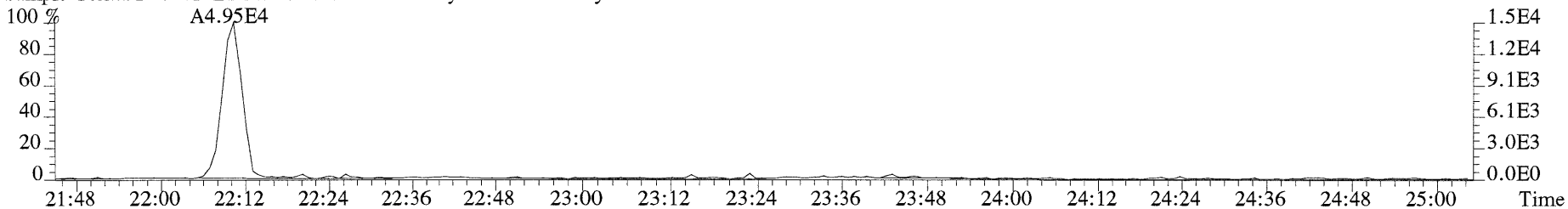
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



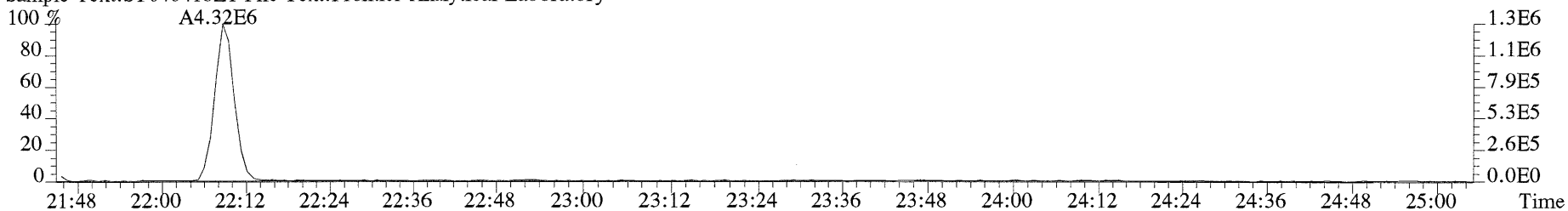
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



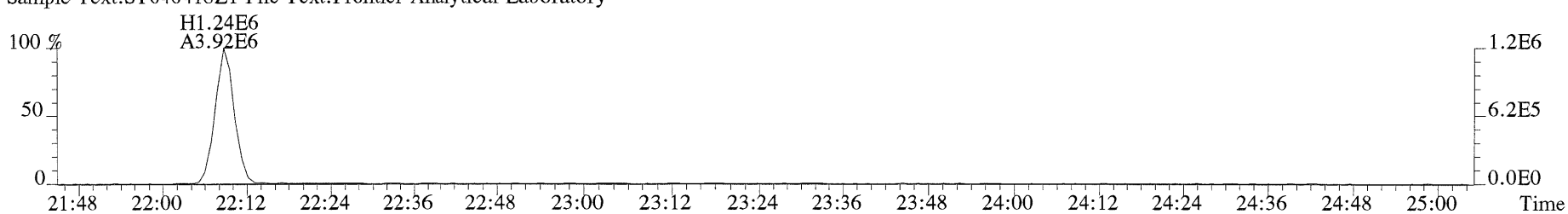
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



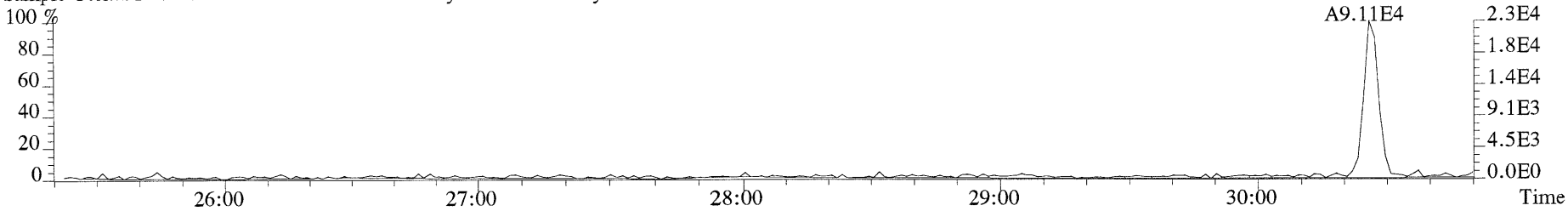
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



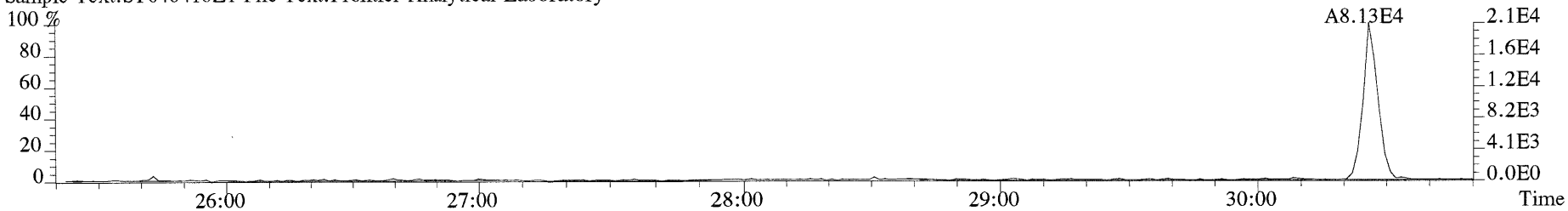
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



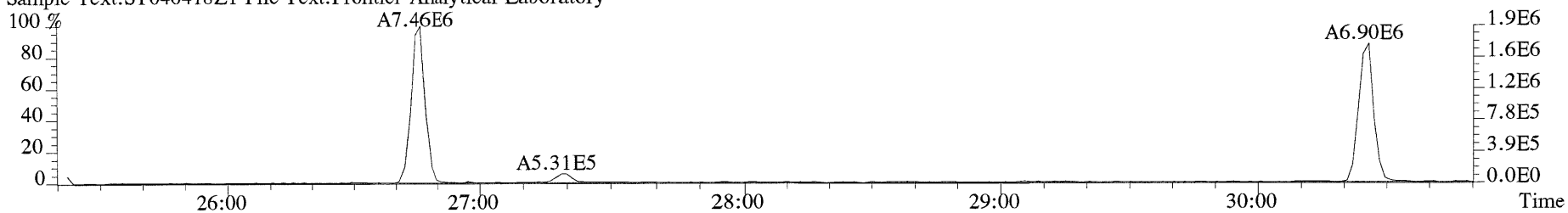
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



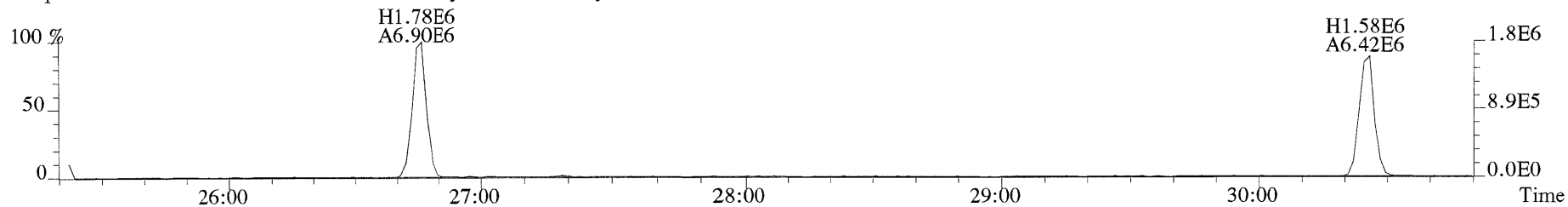
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



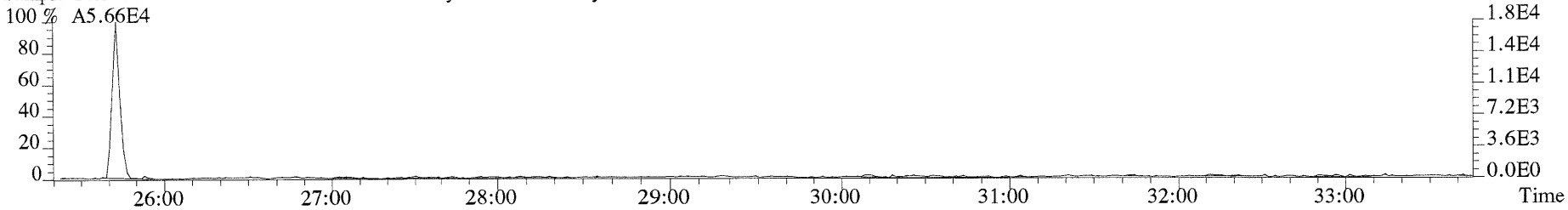
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



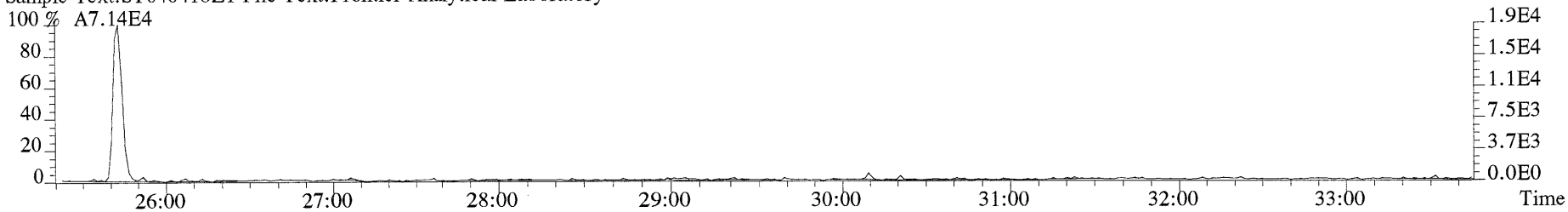
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



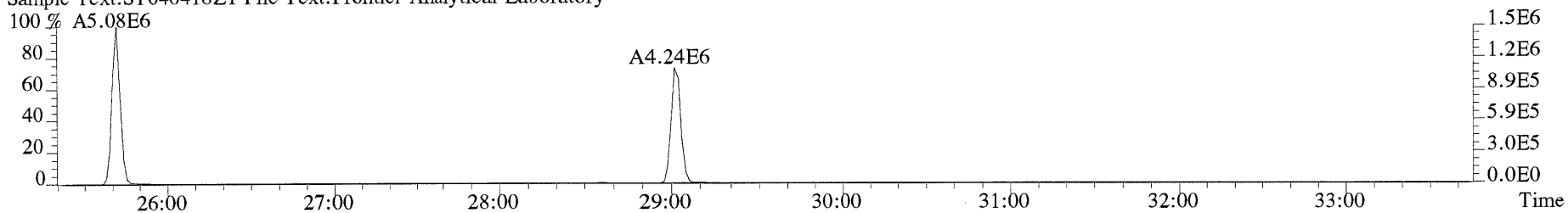
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



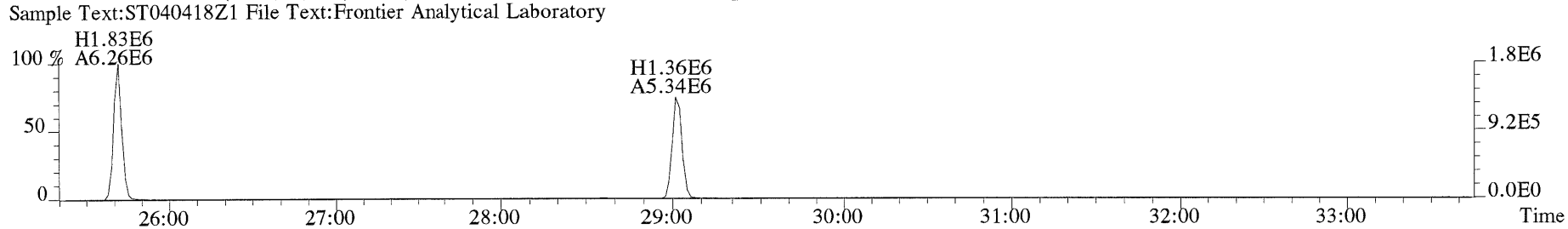
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



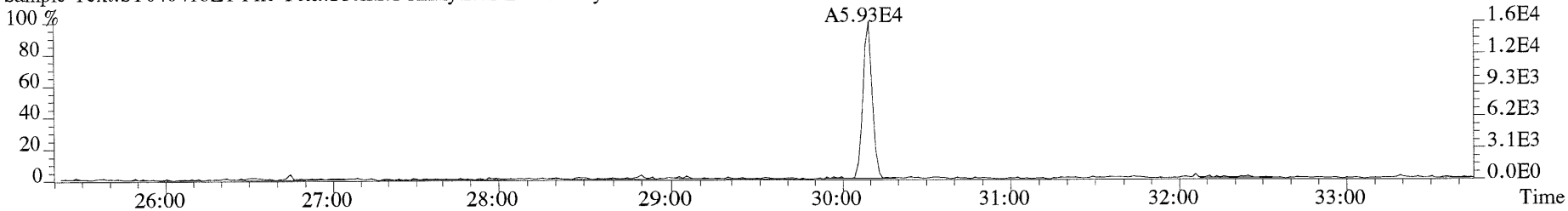
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



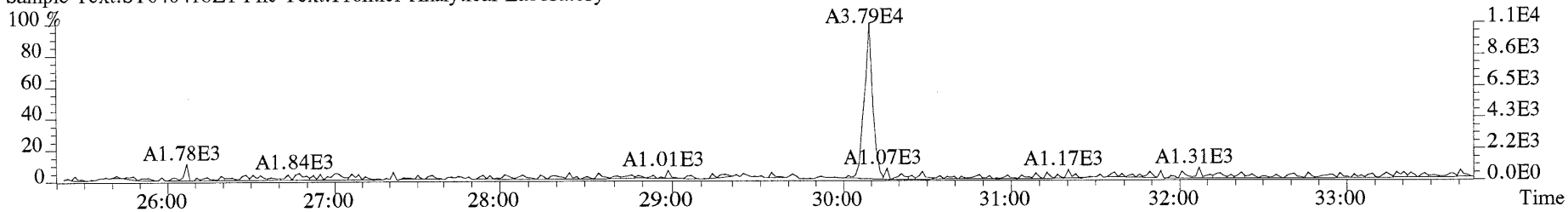
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



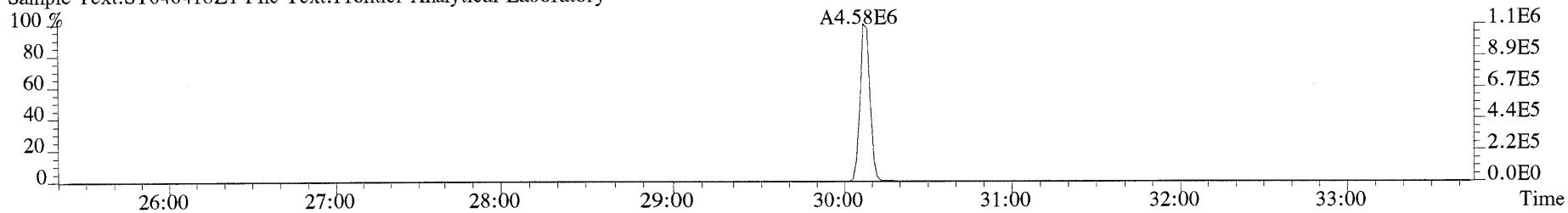
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



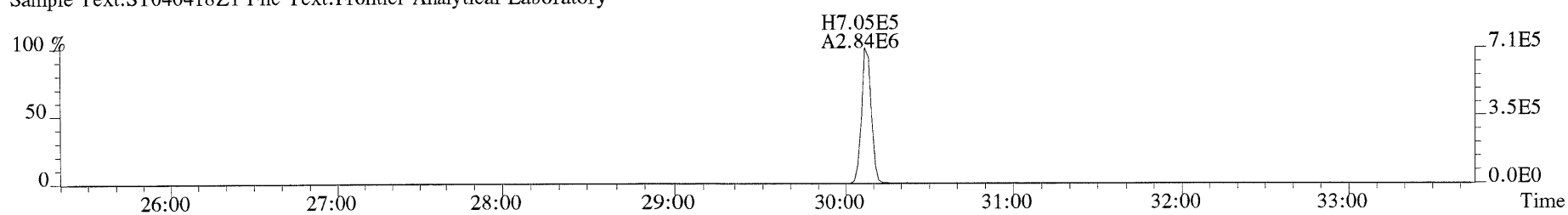
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



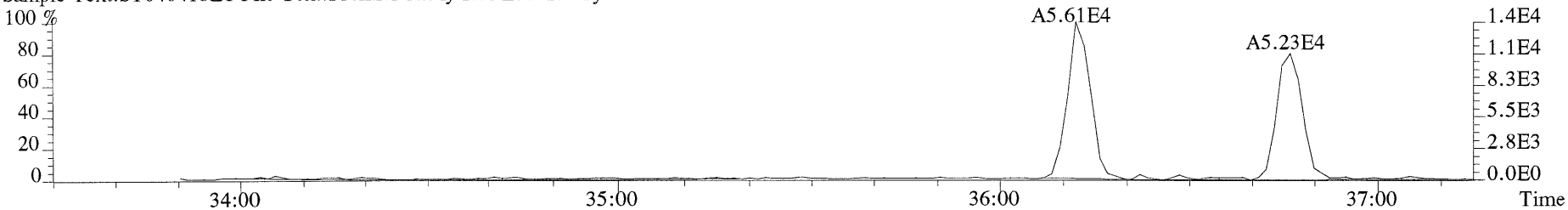
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



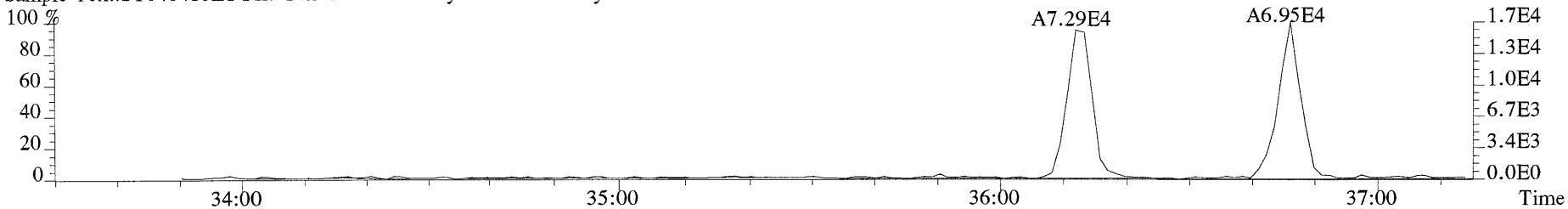
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



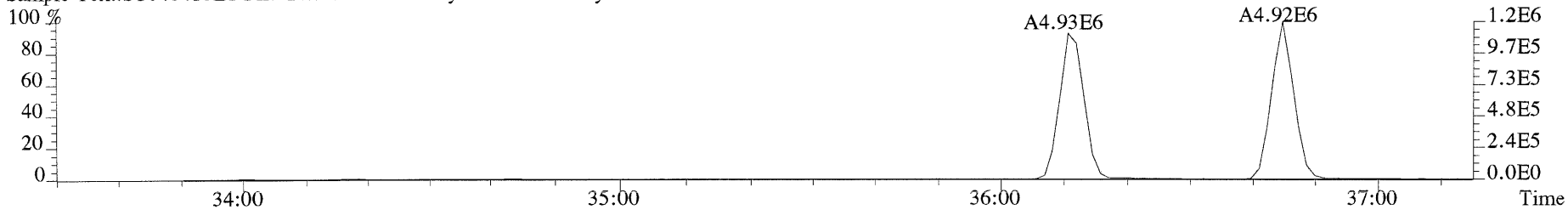
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



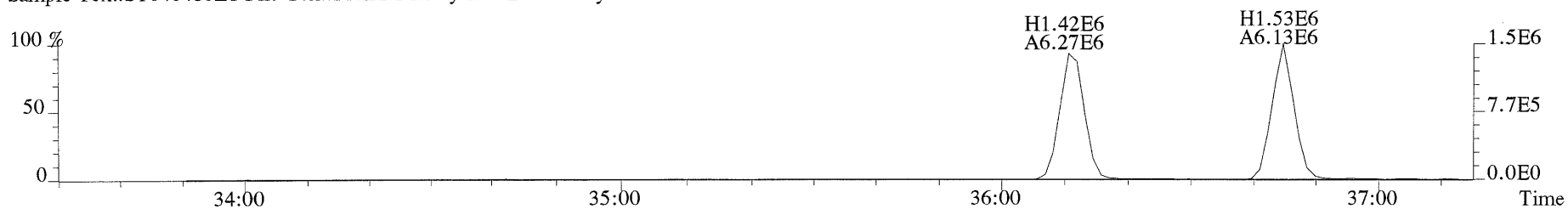
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



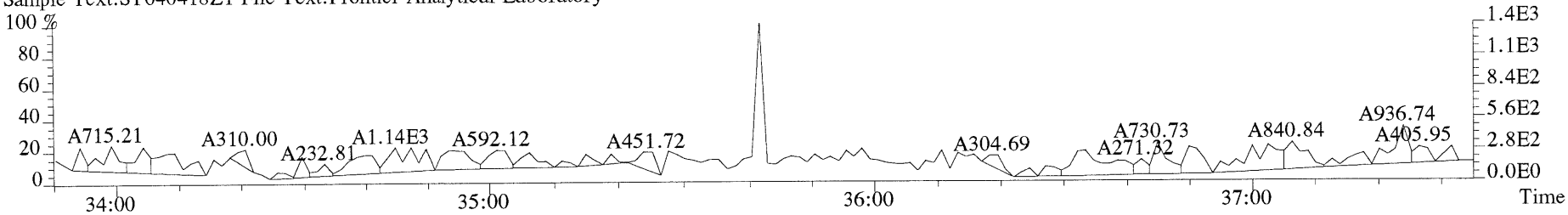
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



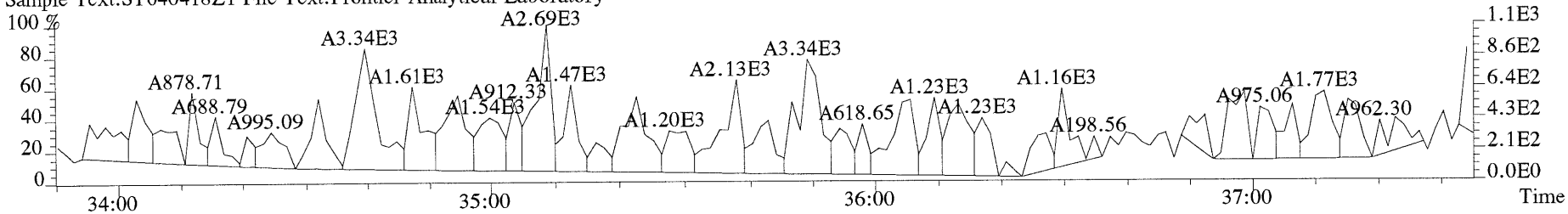
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



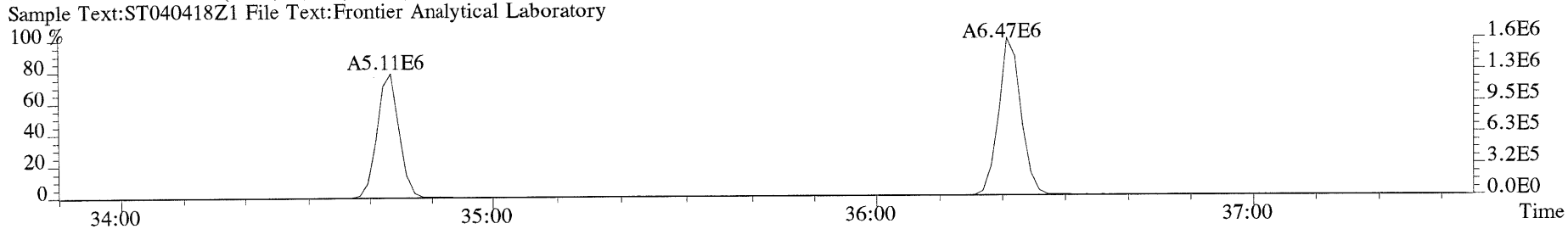
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



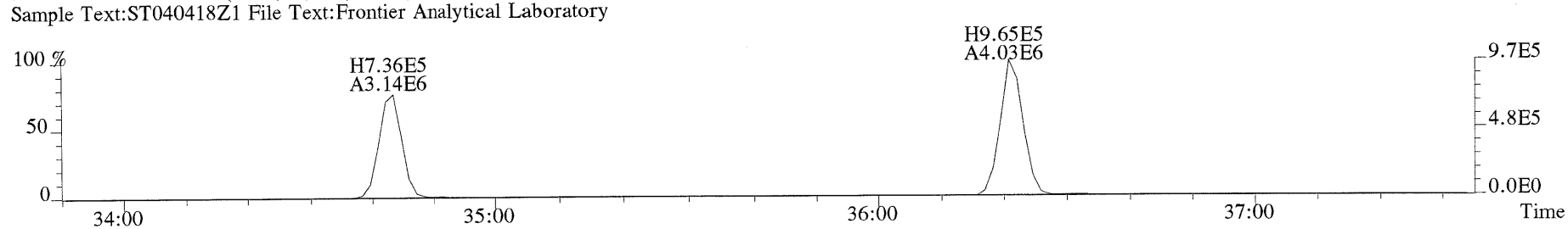
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



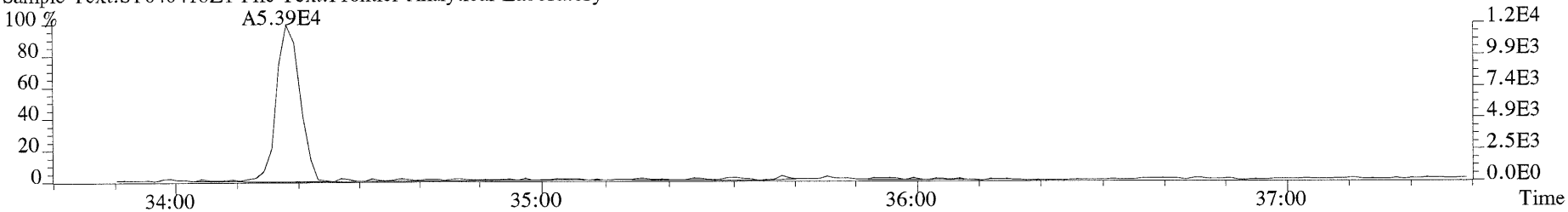
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



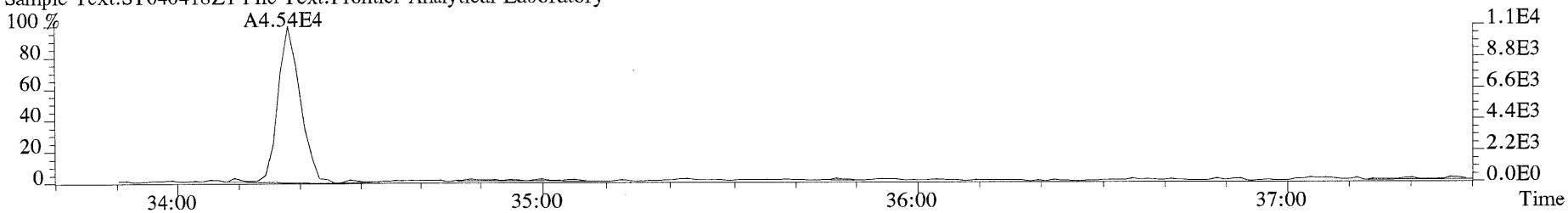
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



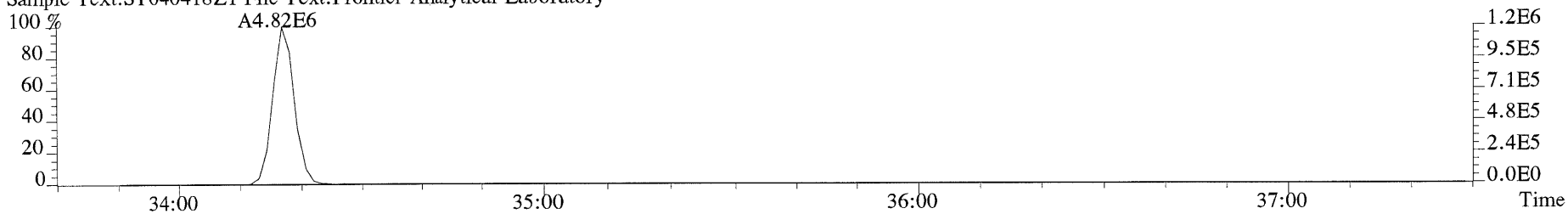
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



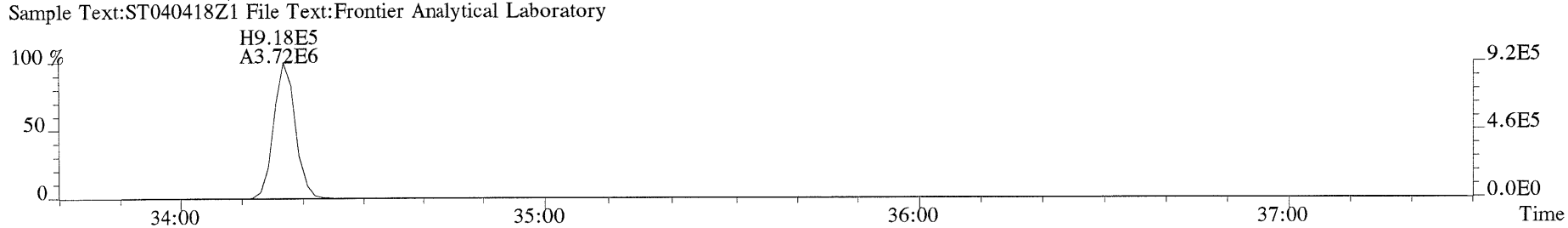
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



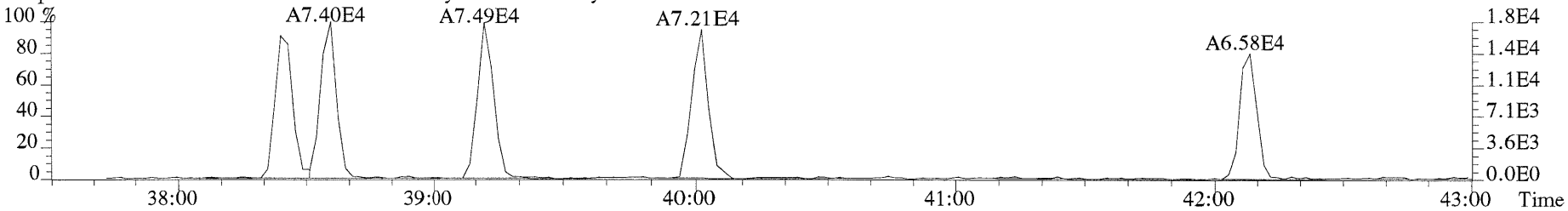
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



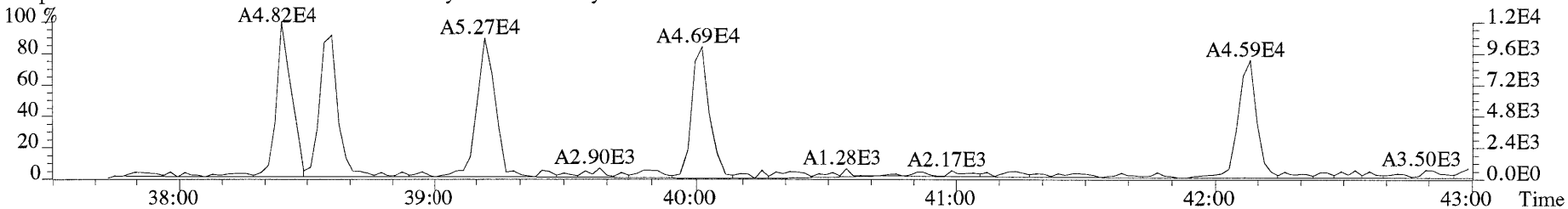
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



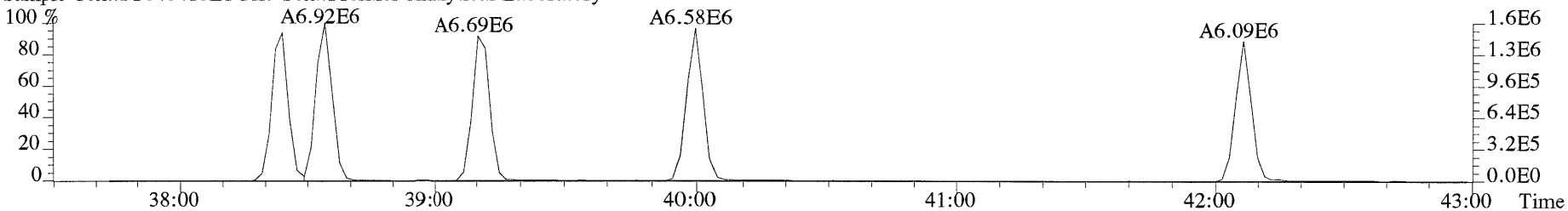
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



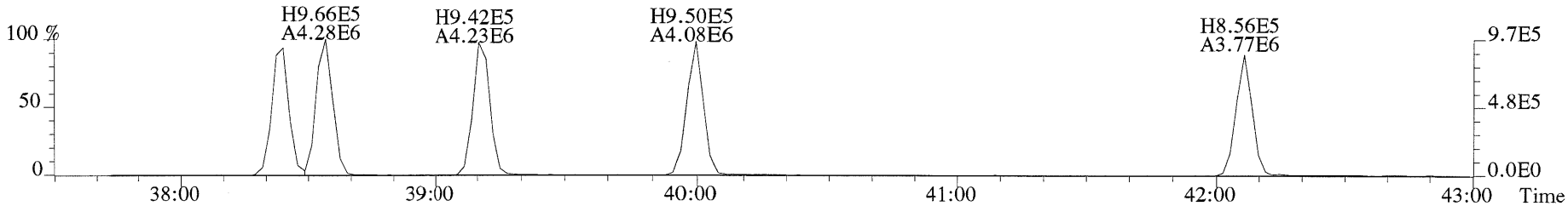
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



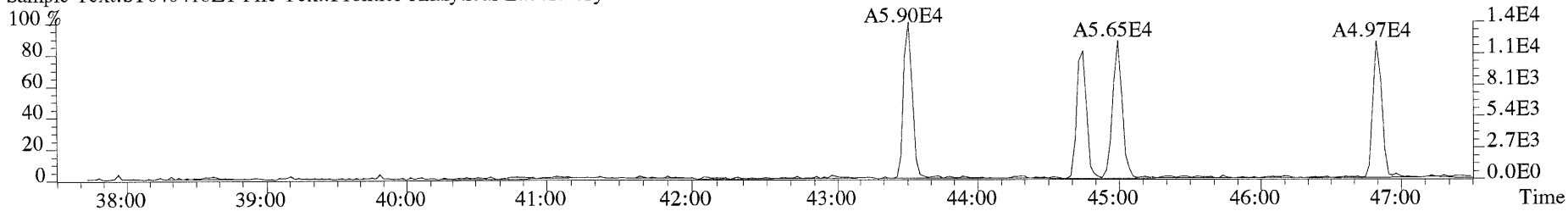
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



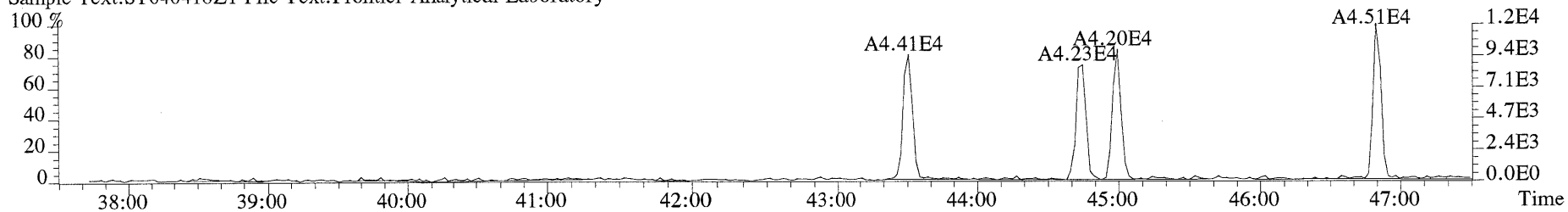
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



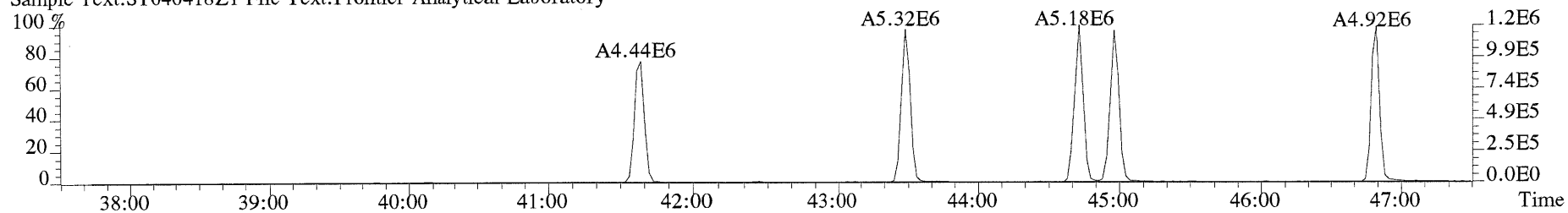
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



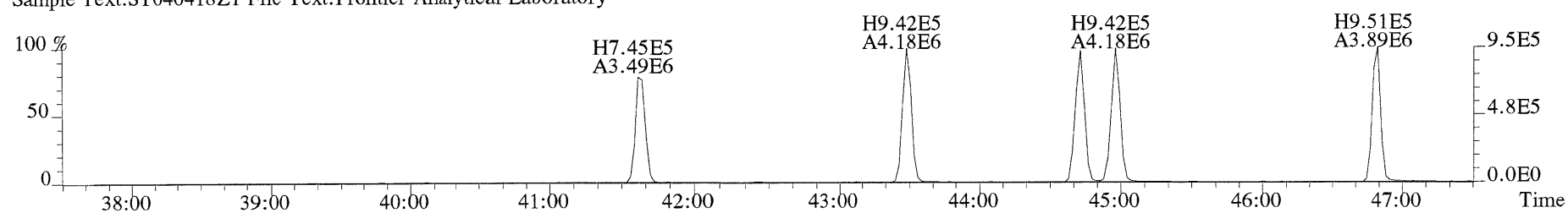
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



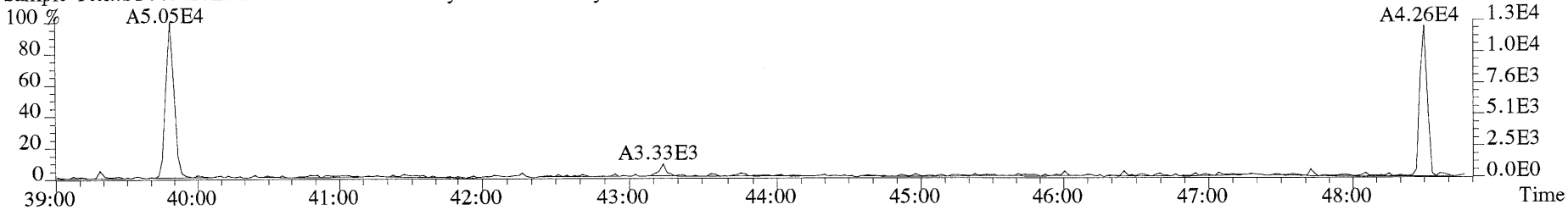
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



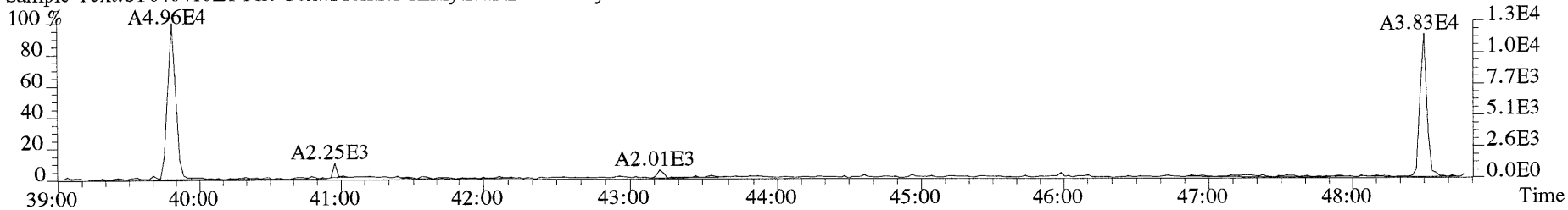
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



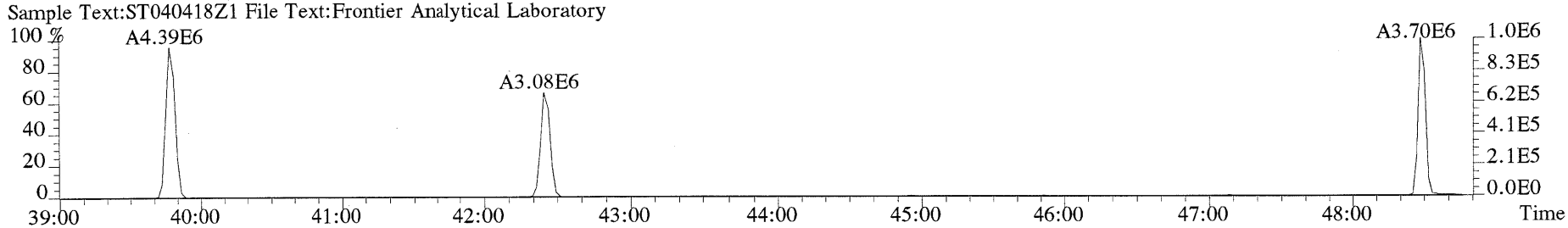
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



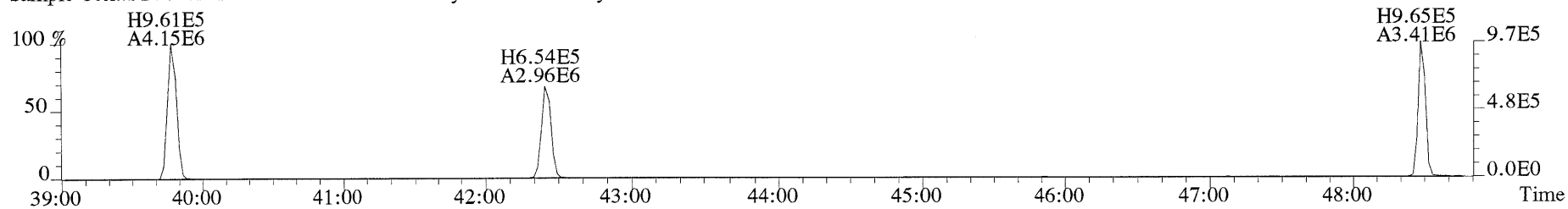
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



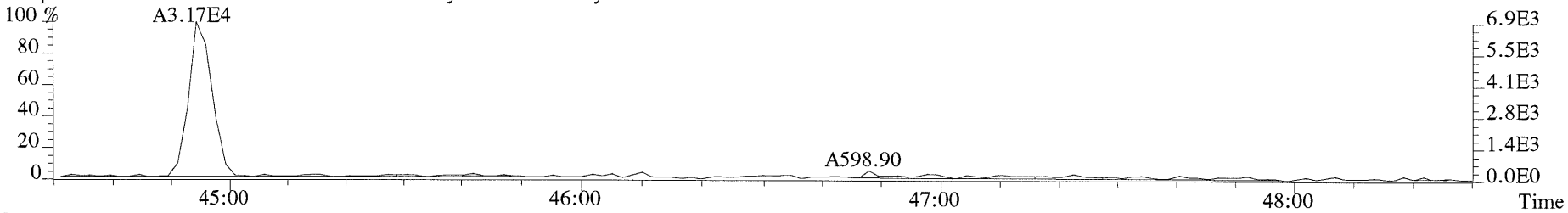
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



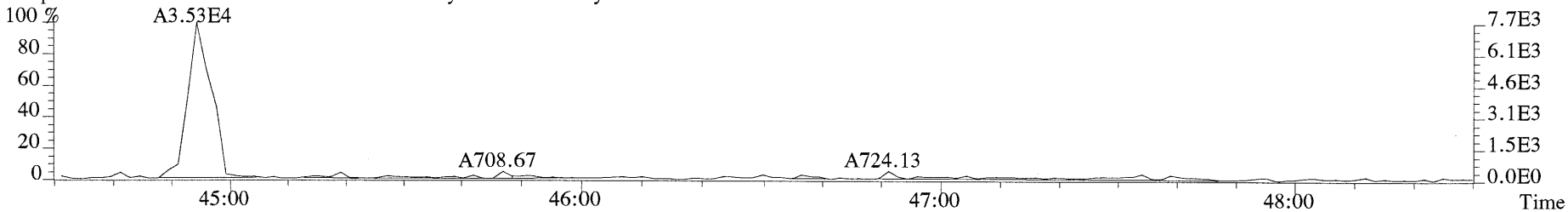
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



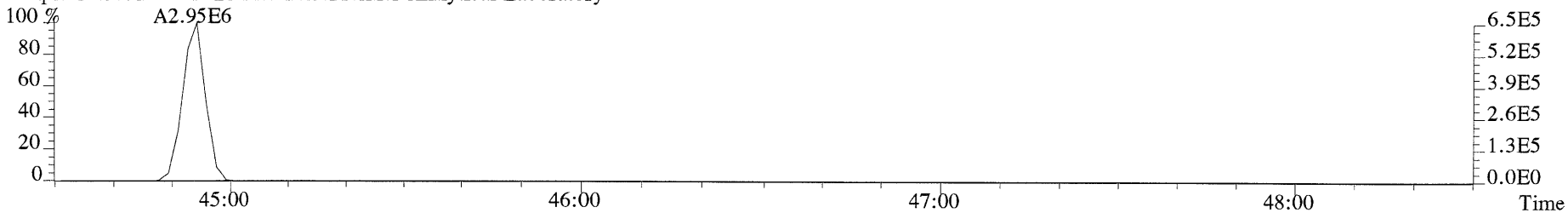
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



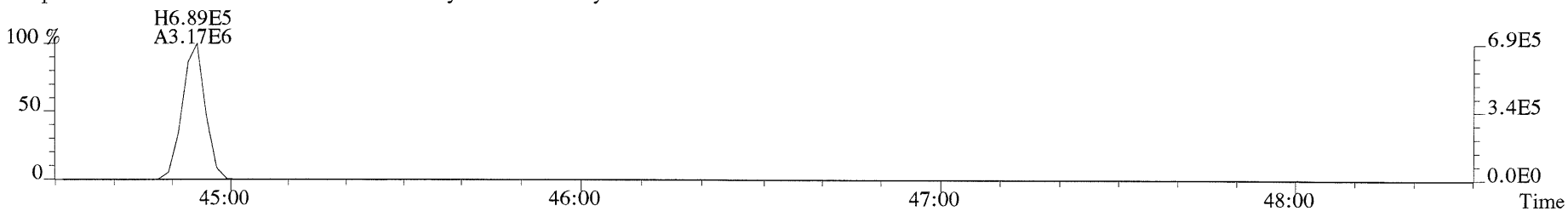
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



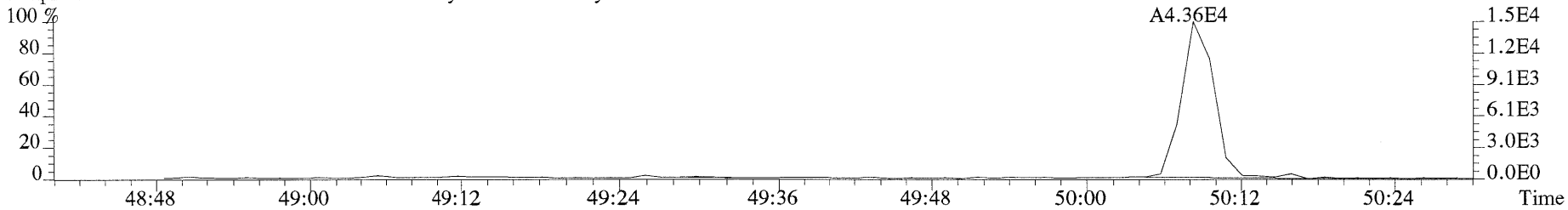
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



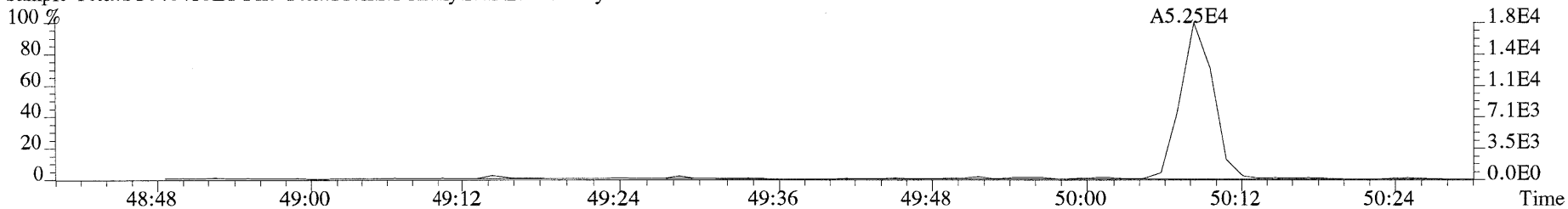
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



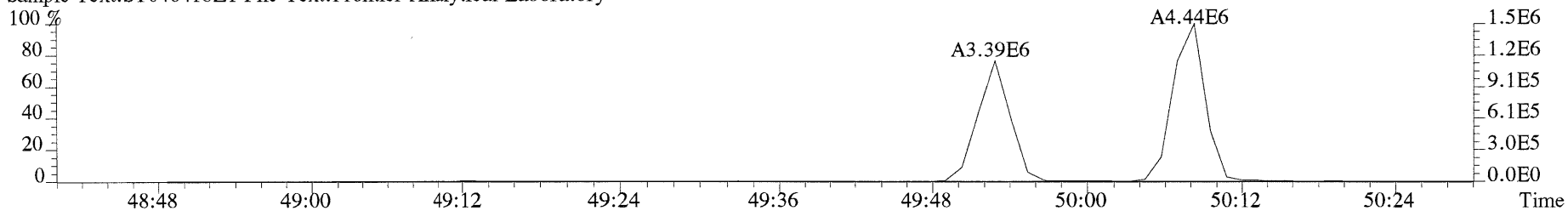
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



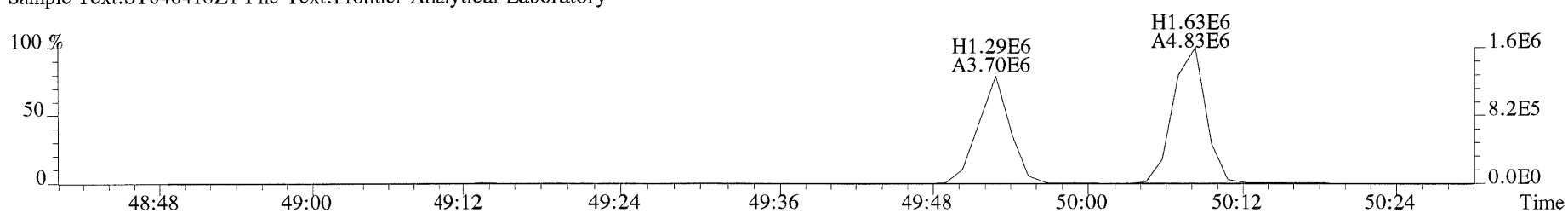
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



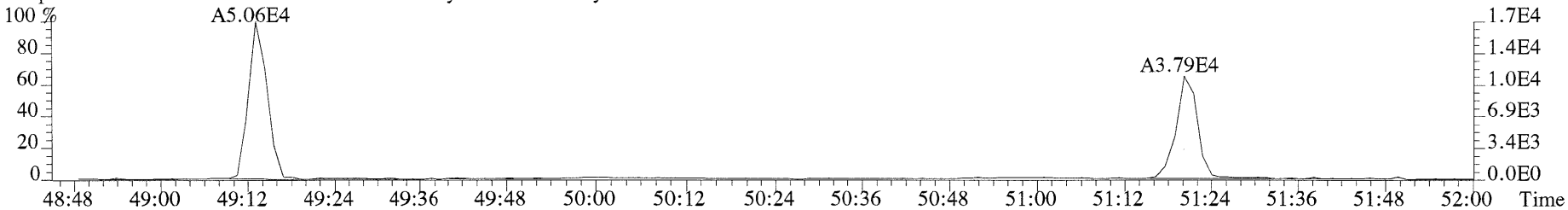
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



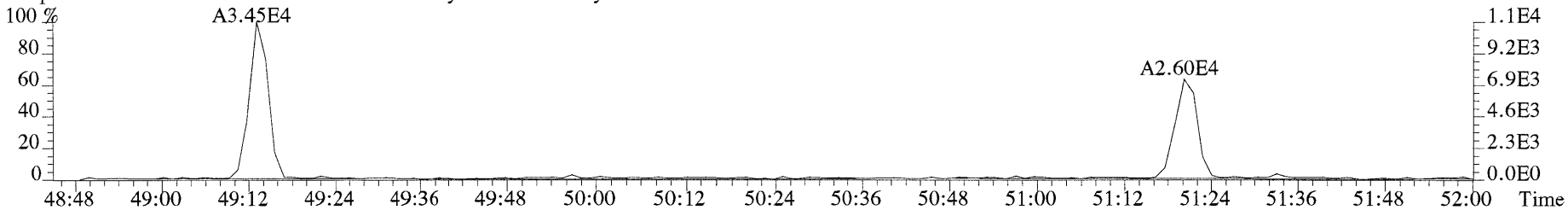
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



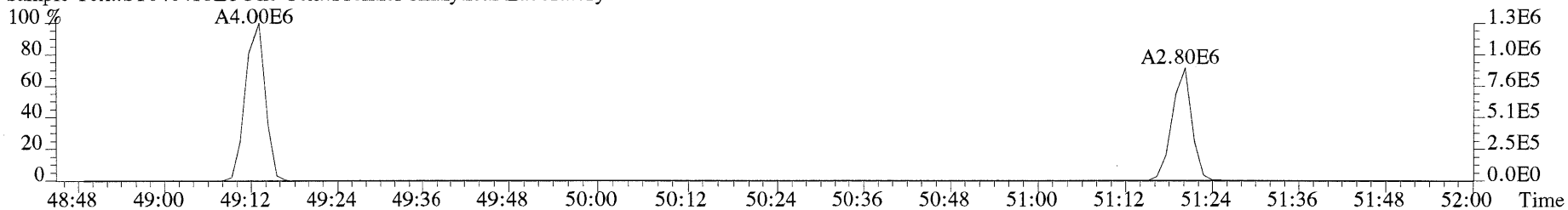
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



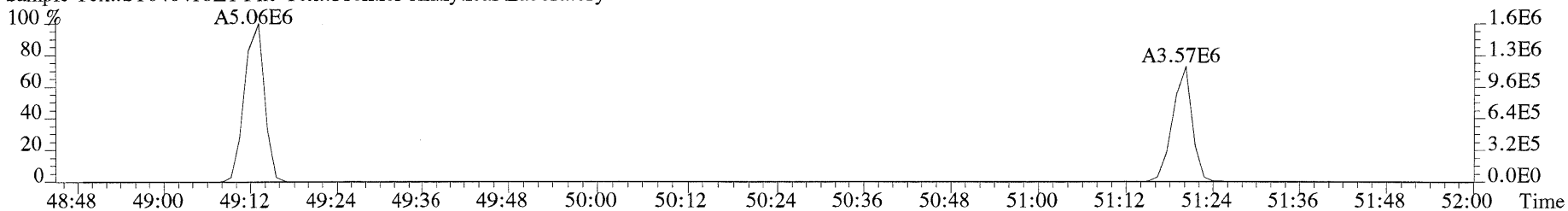
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



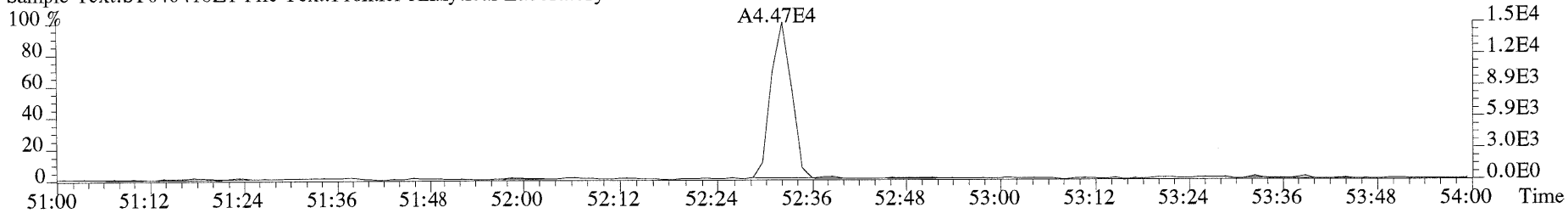
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



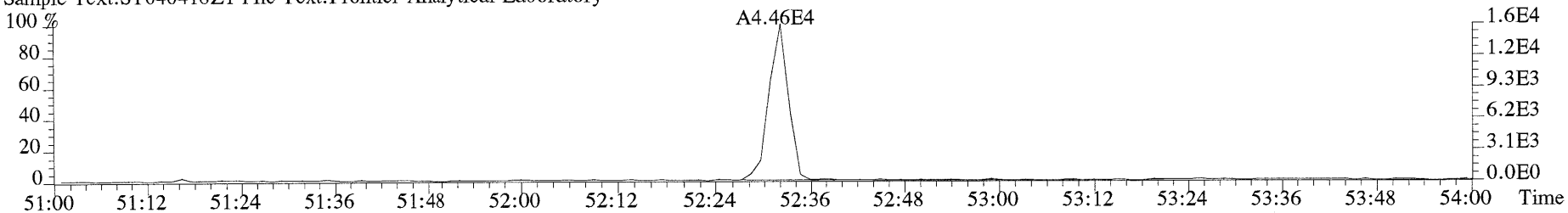
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



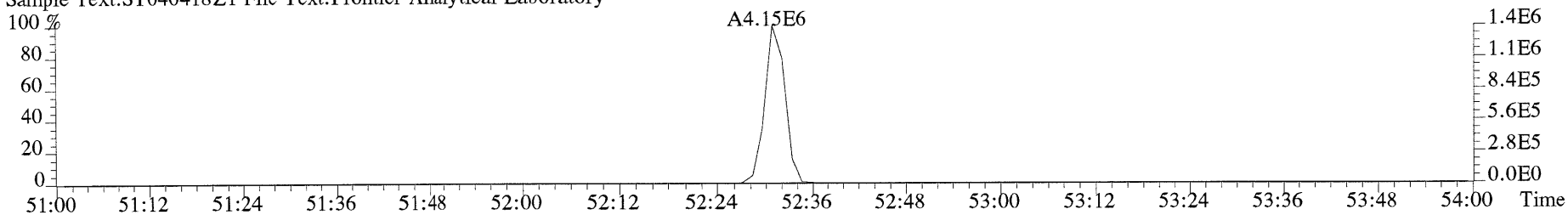
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



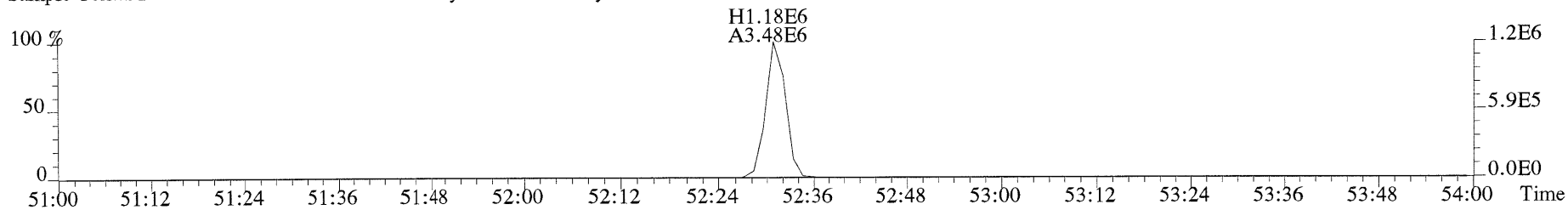
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



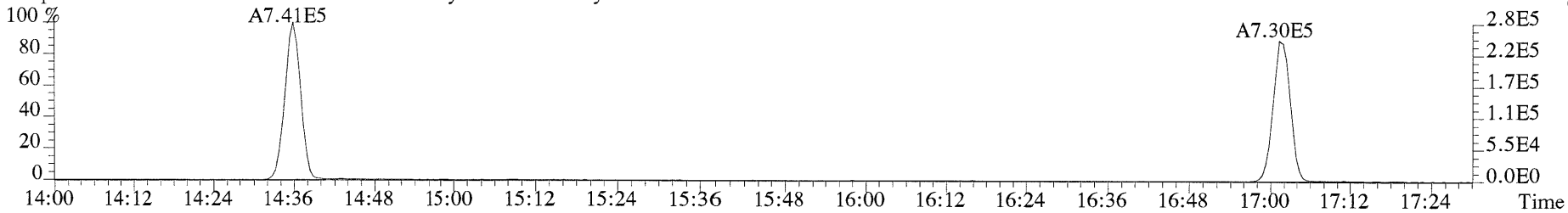
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



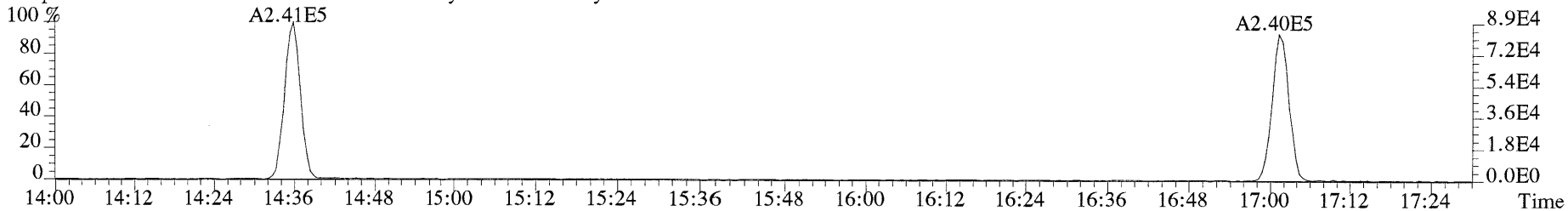
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



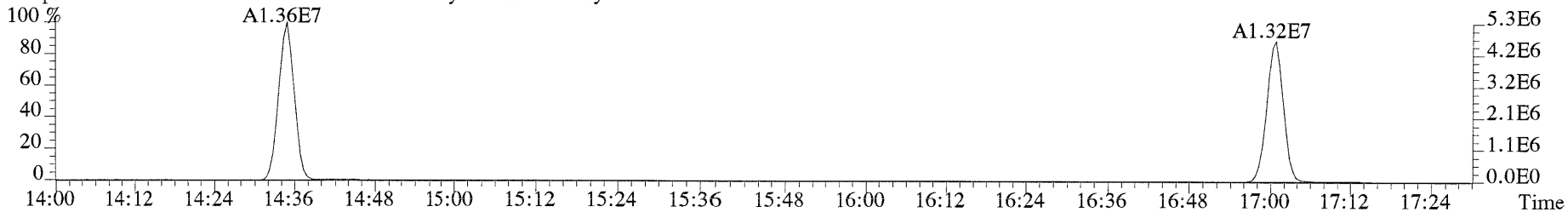
File:04APR18Z #1-783 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



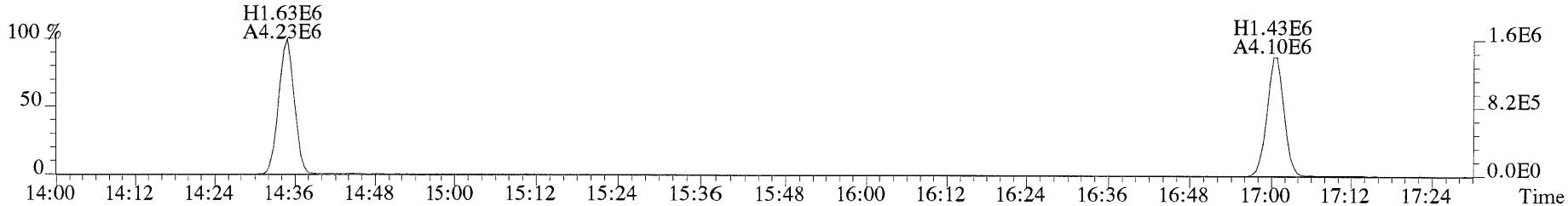
File:04APR18Z #1-783 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



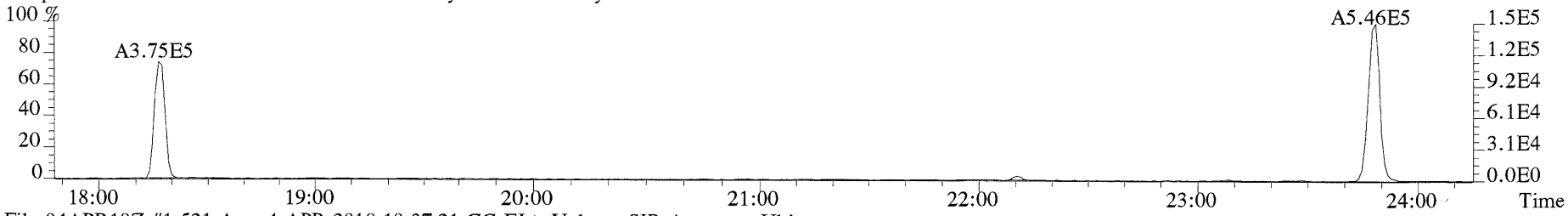
File:04APR18Z #1-783 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



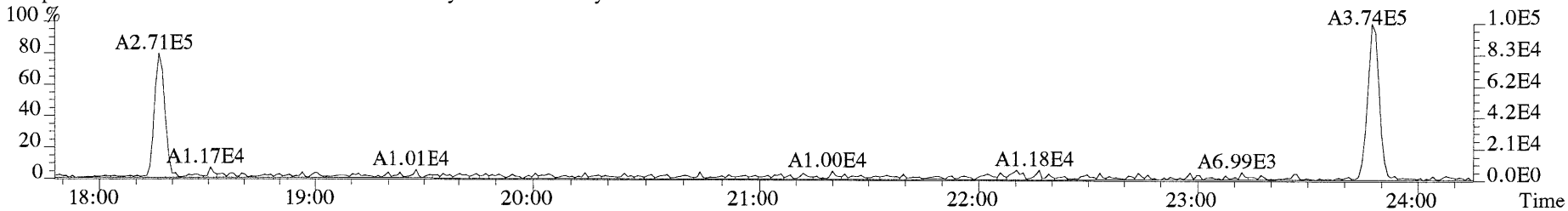
File:04APR18Z #1-783 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



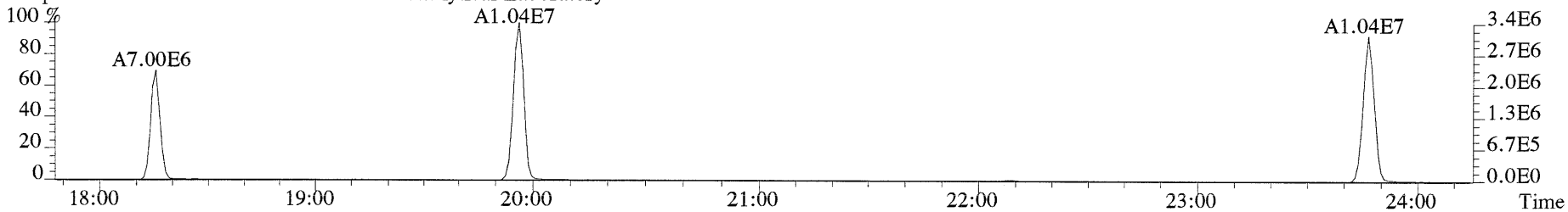
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



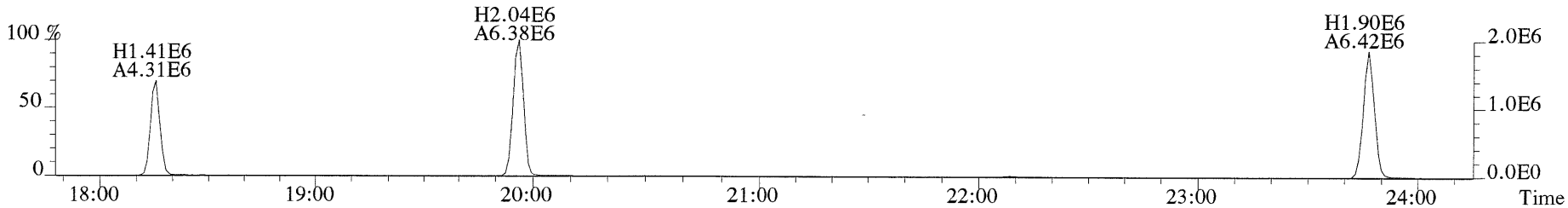
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



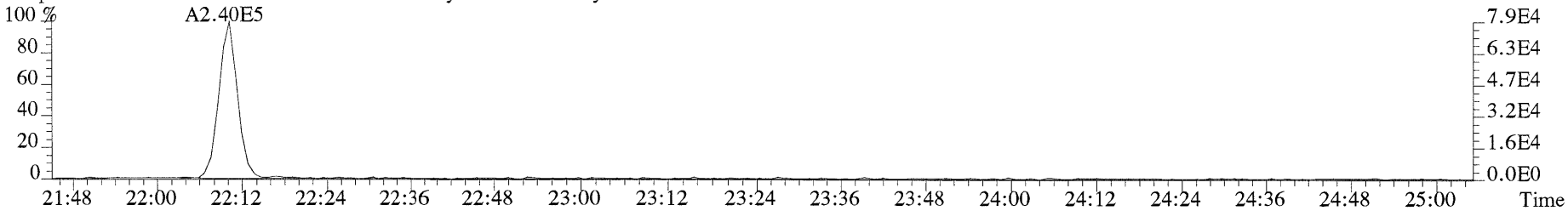
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



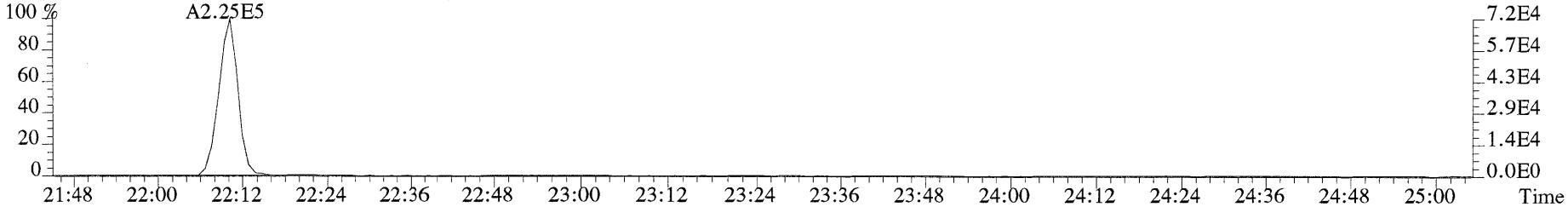
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



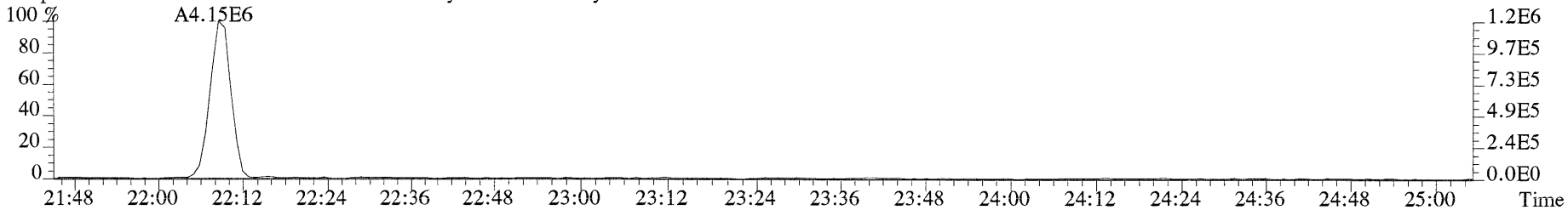
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



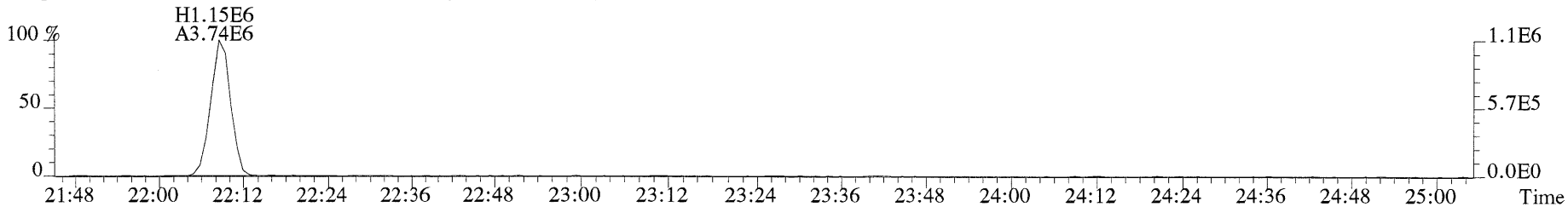
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



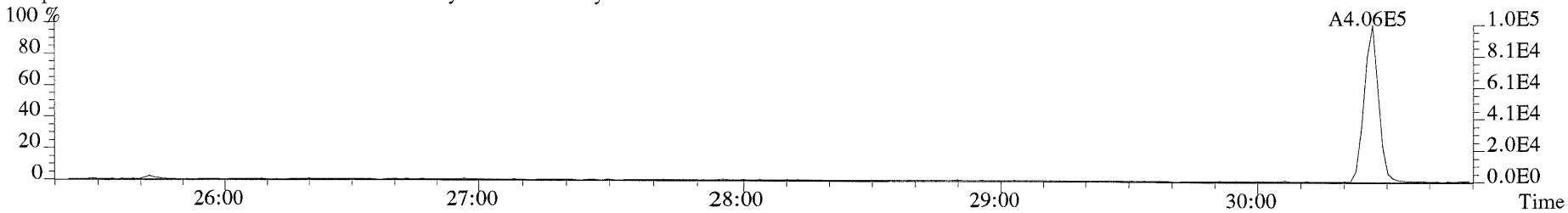
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



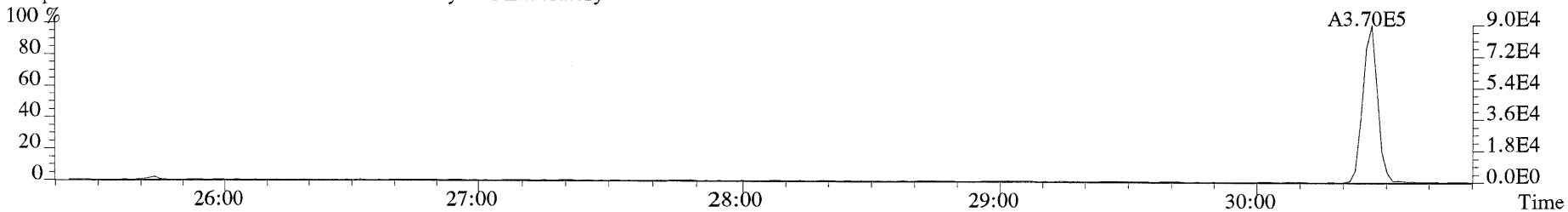
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



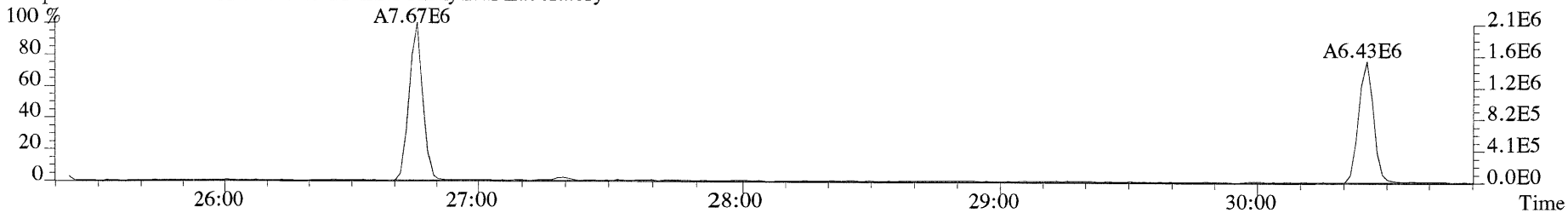
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



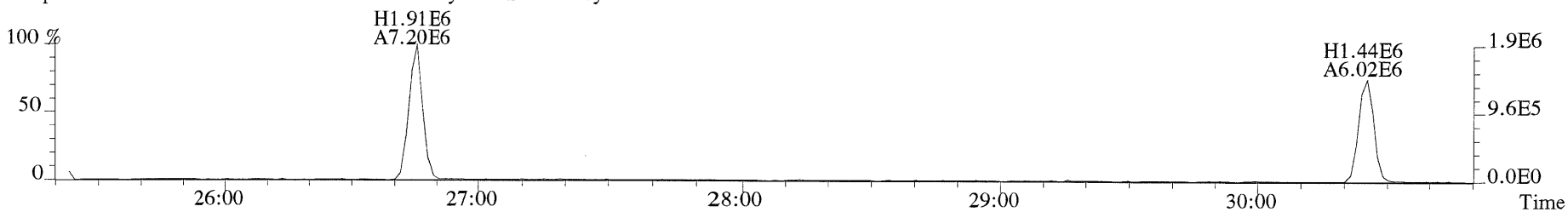
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



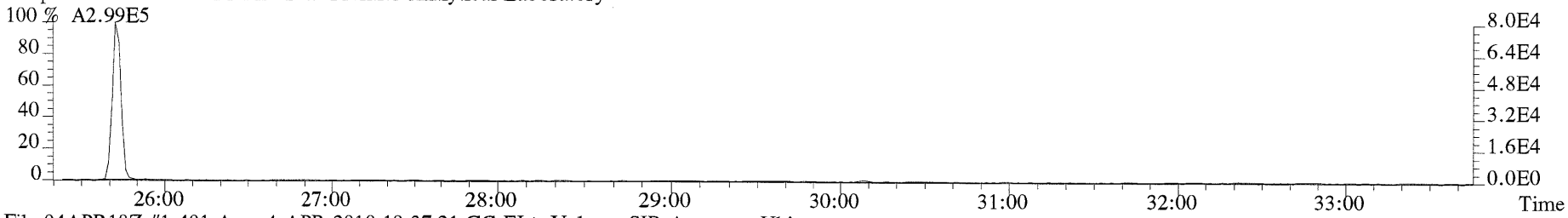
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



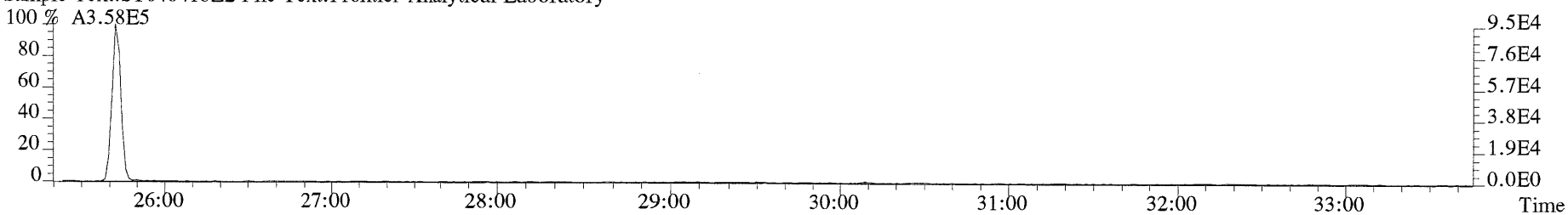
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



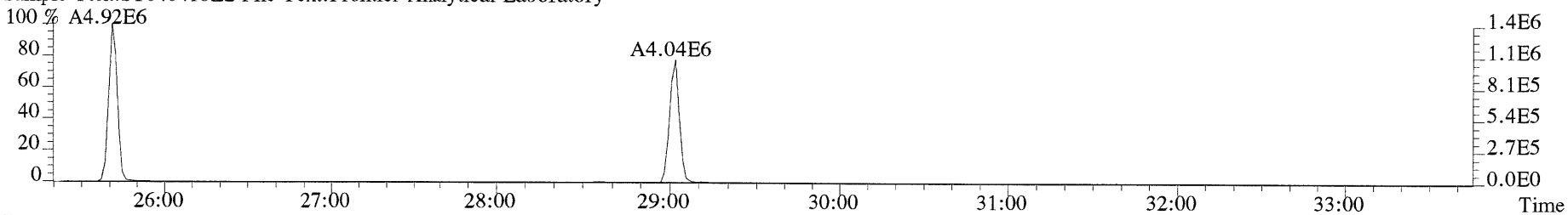
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



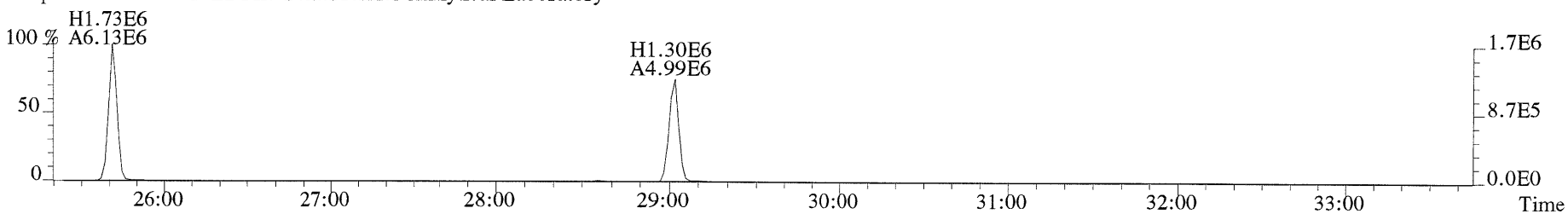
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



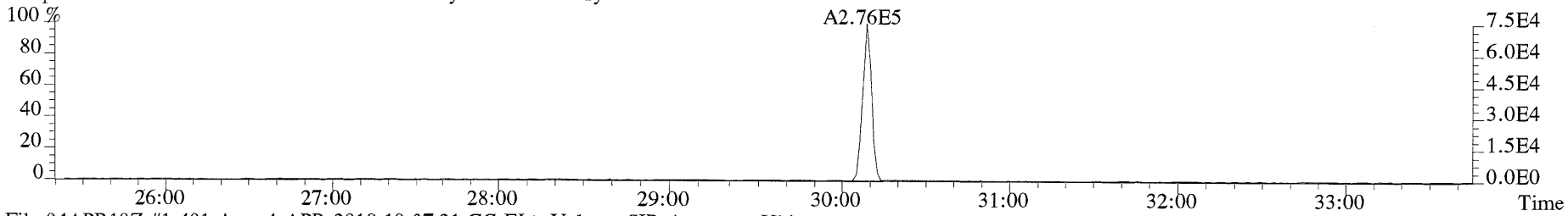
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



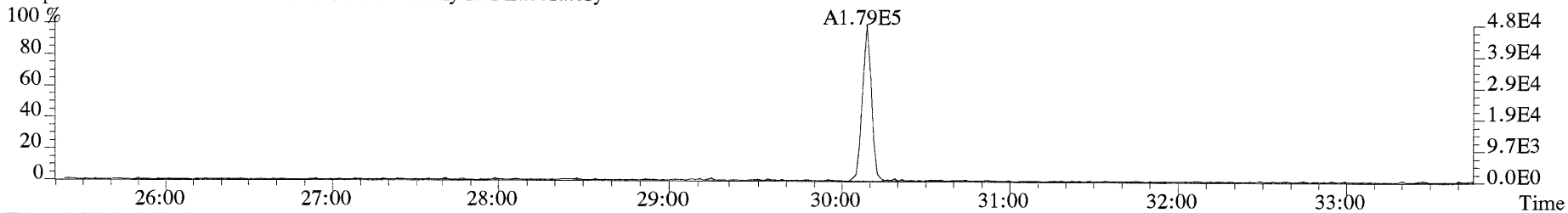
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



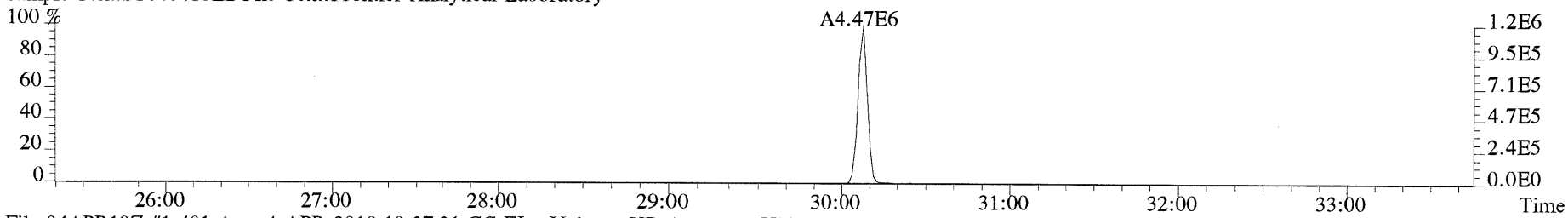
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



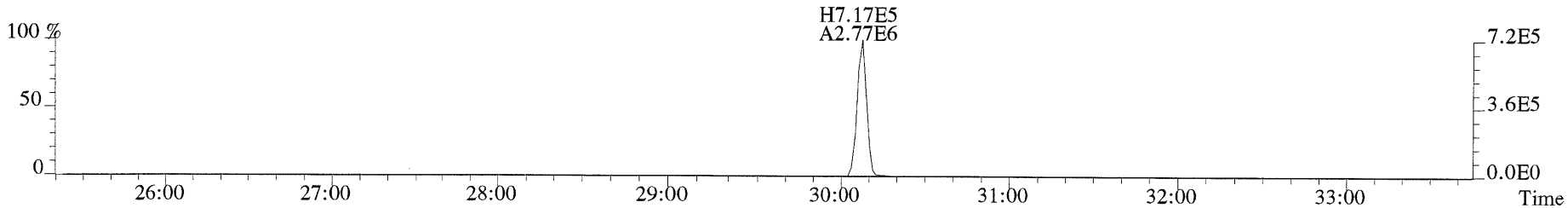
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



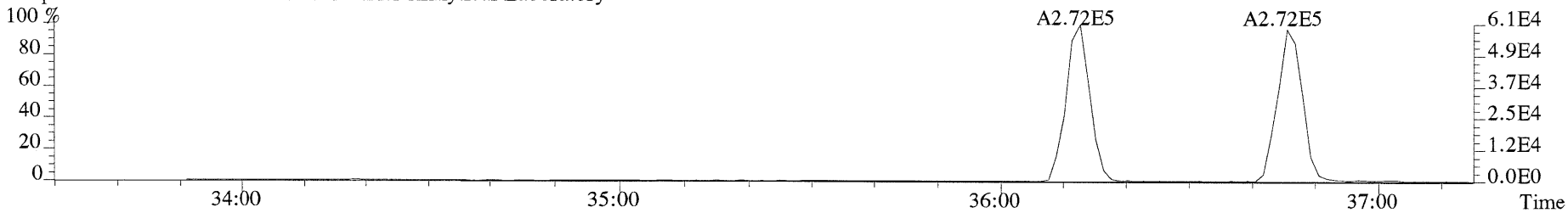
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



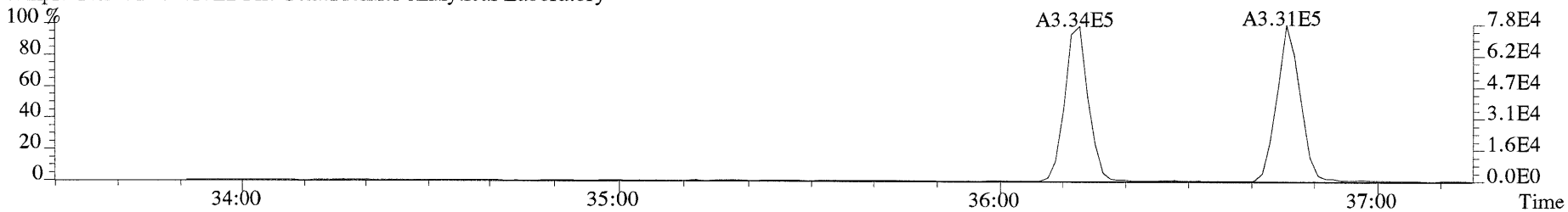
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



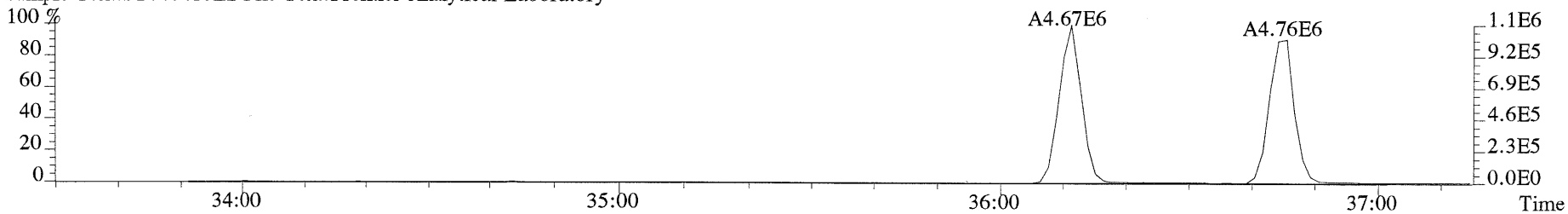
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



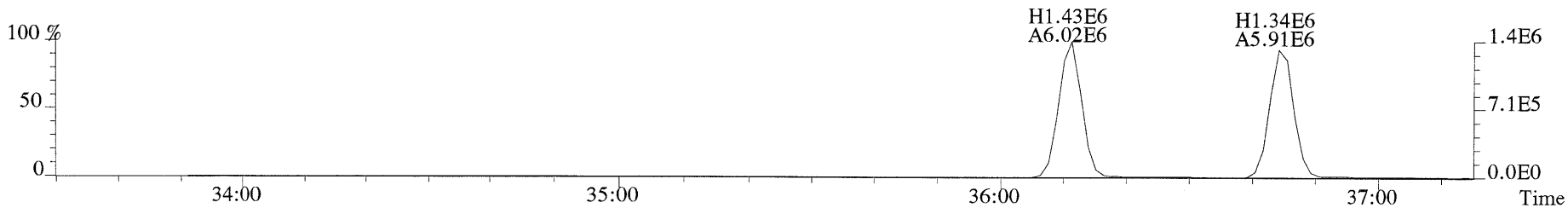
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



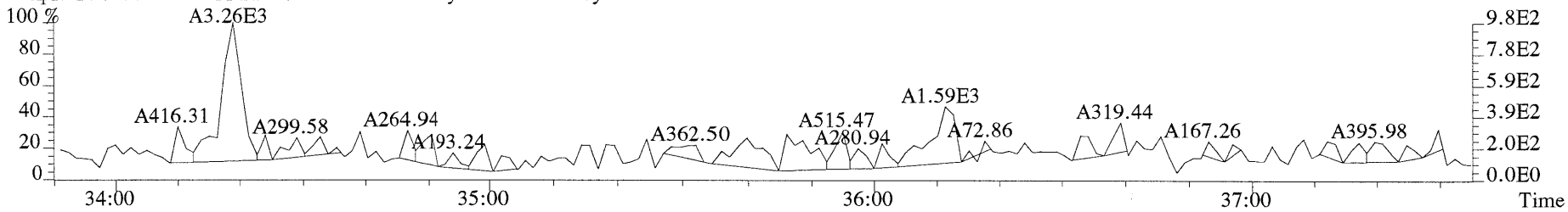
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



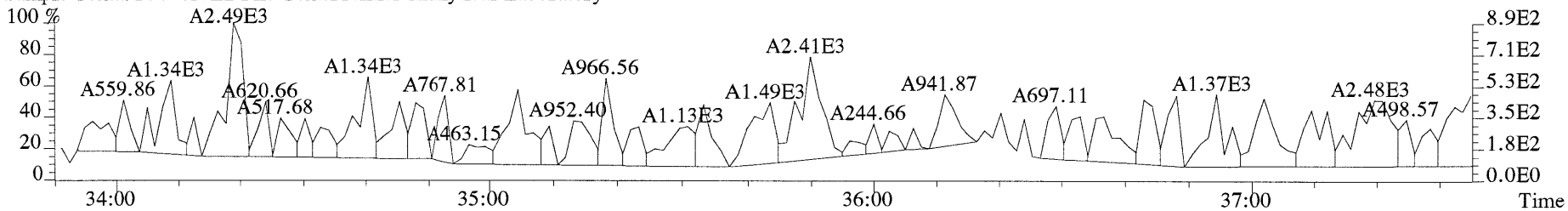
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



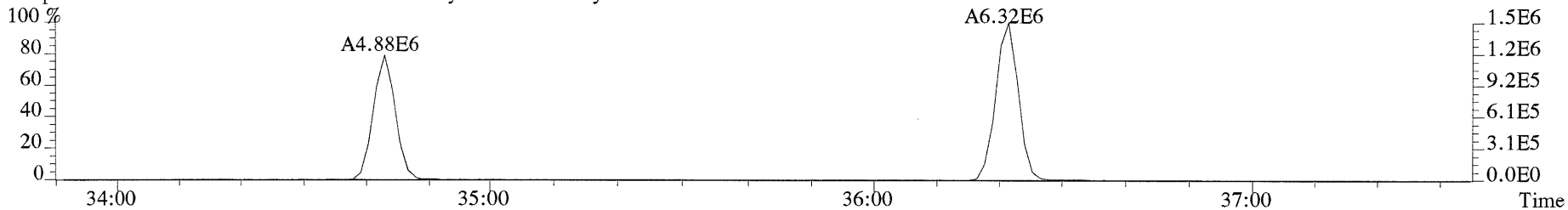
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



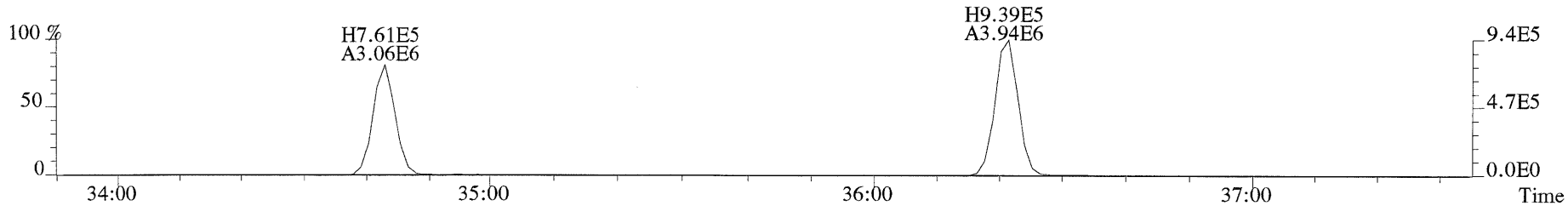
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



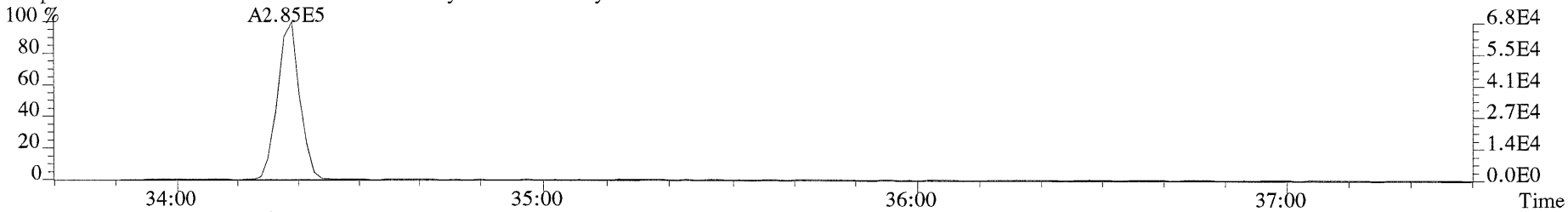
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



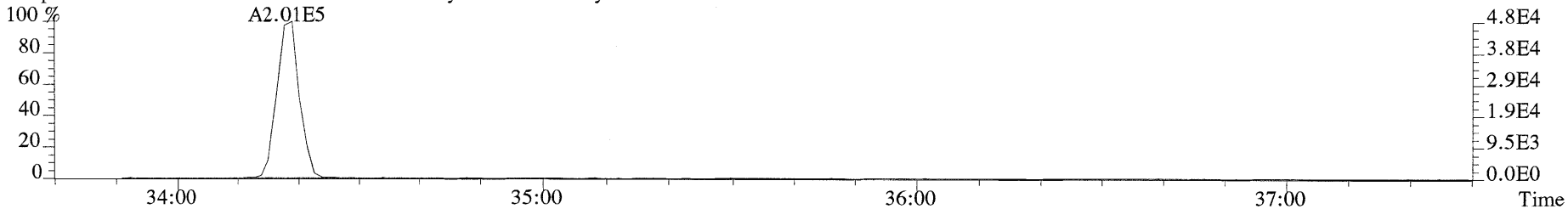
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



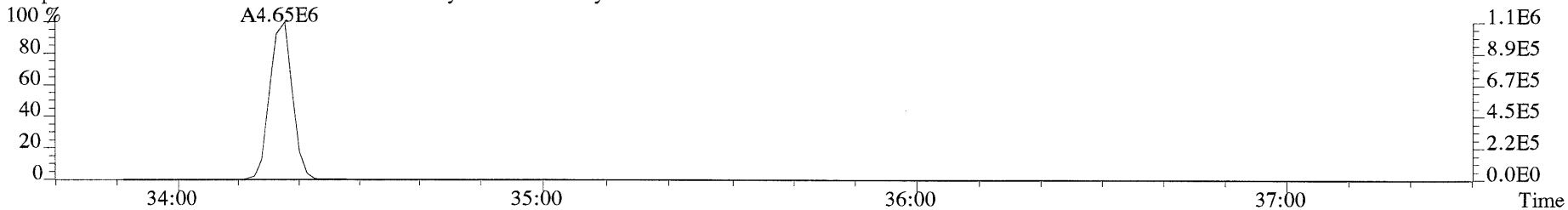
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



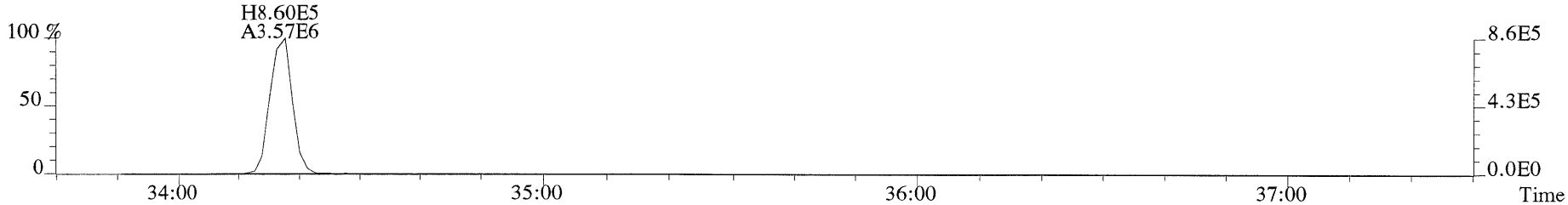
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



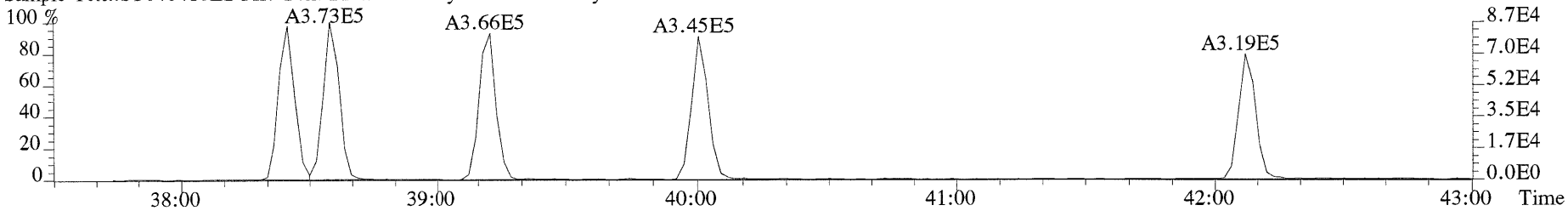
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



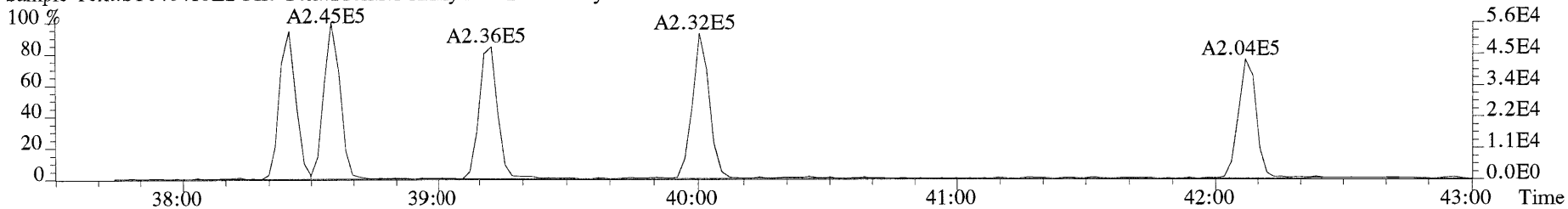
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



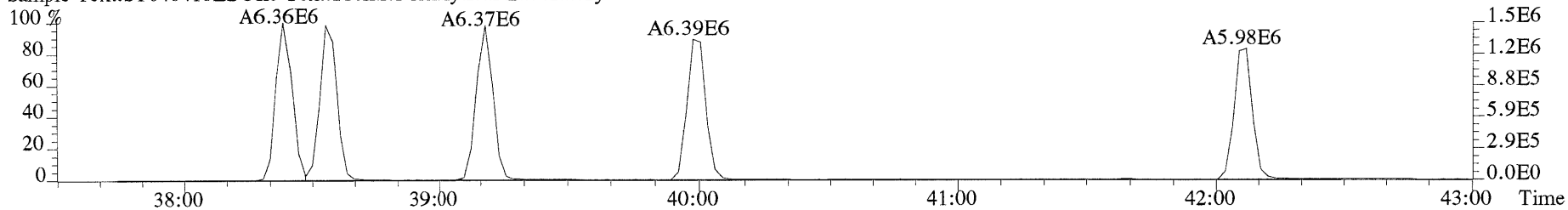
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



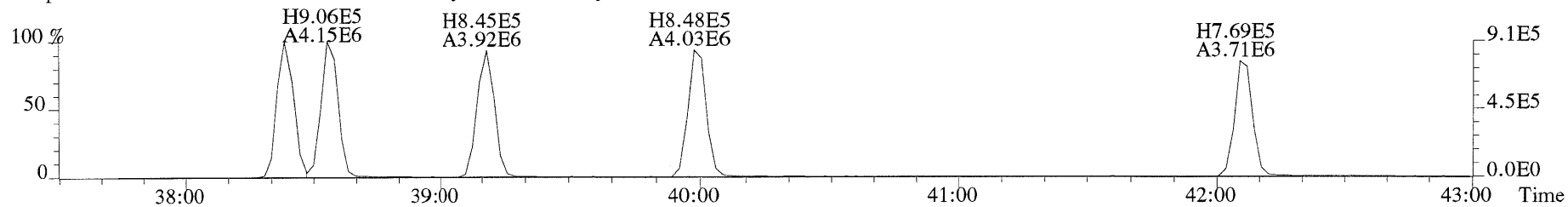
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



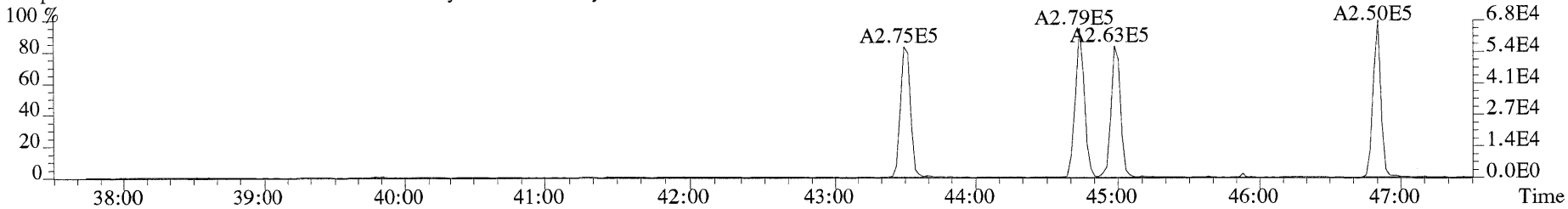
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



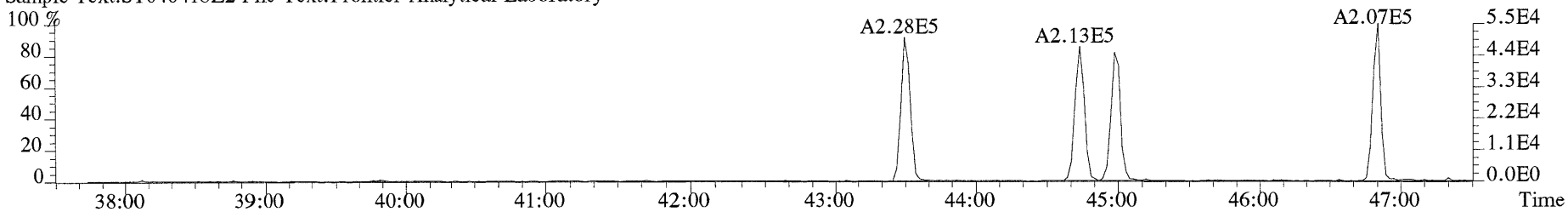
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



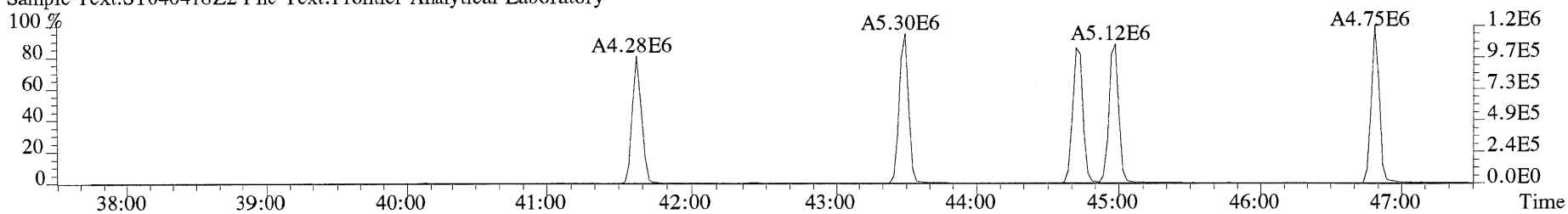
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



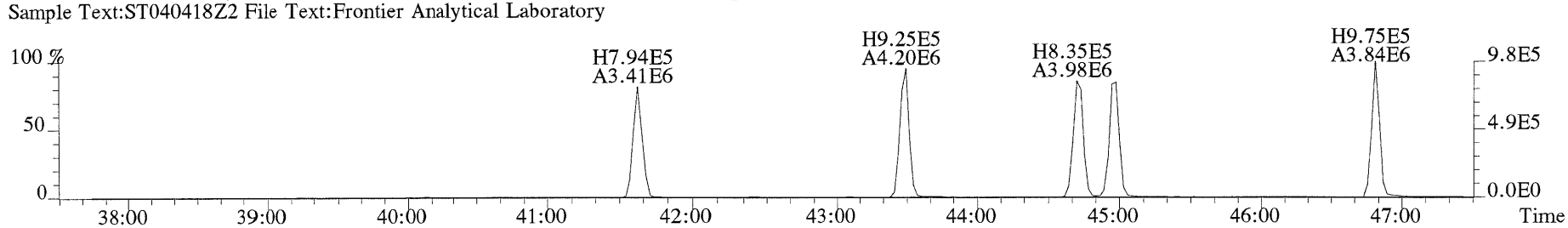
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



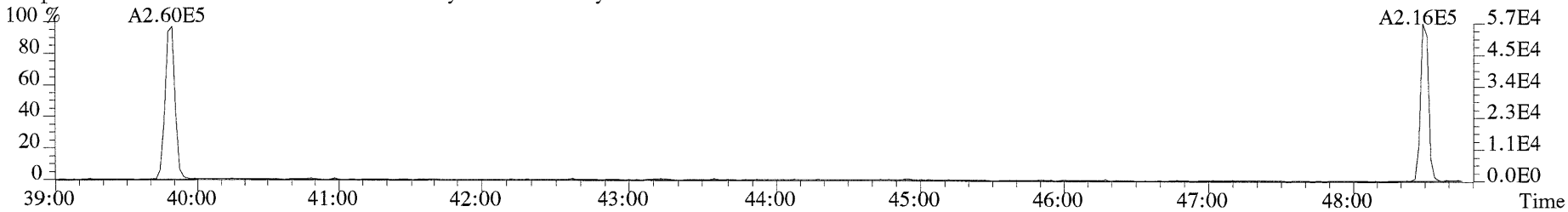
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



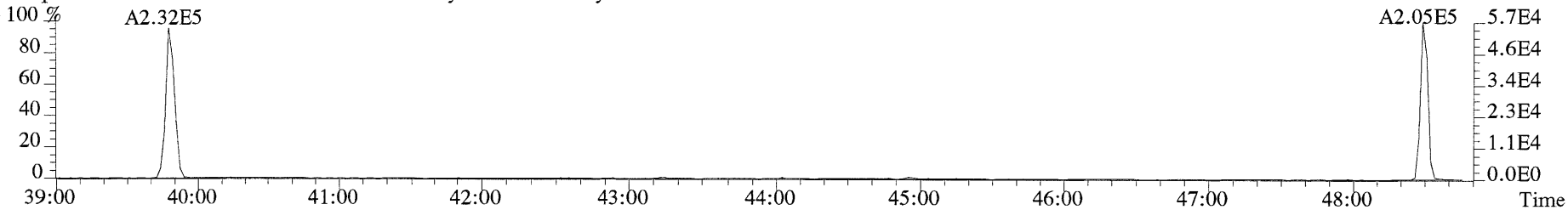
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



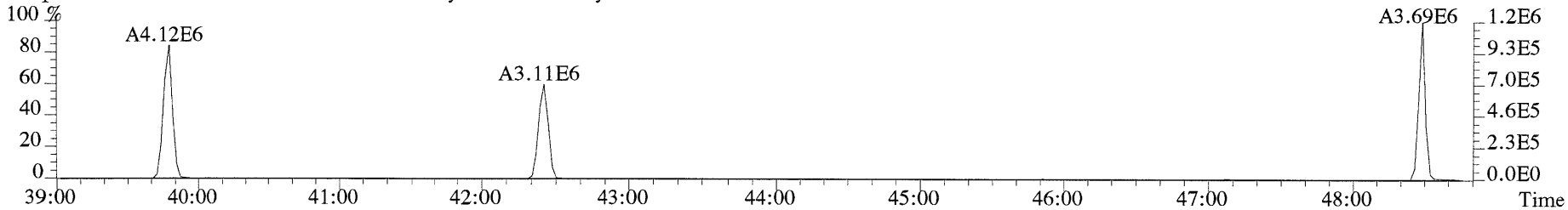
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



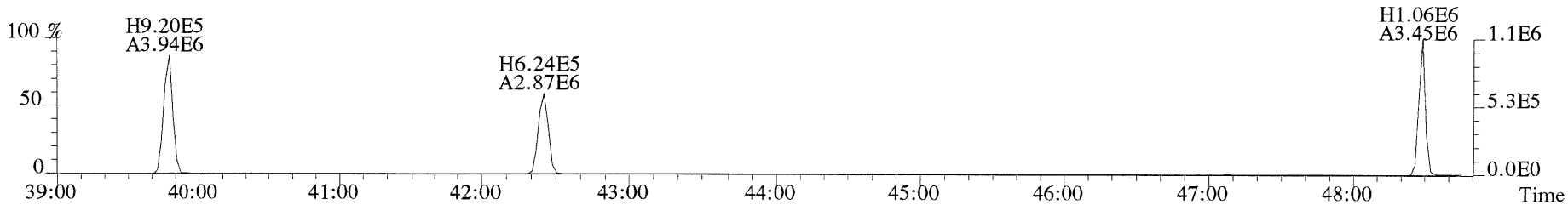
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



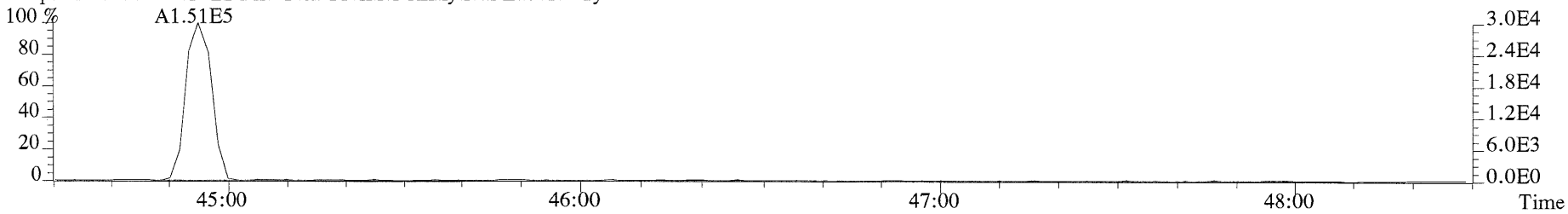
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



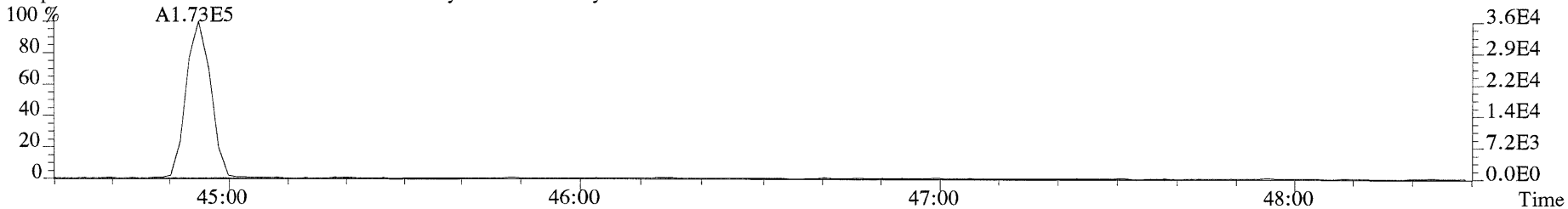
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



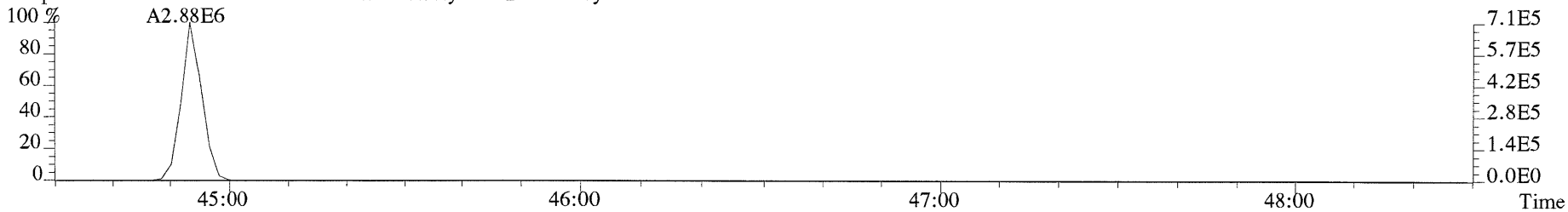
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



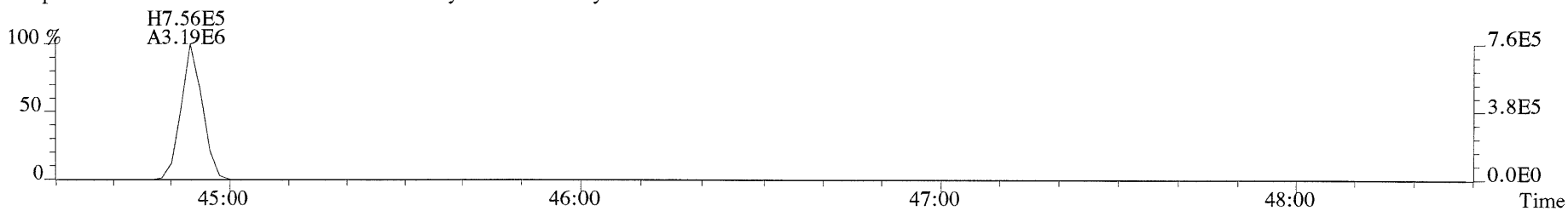
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



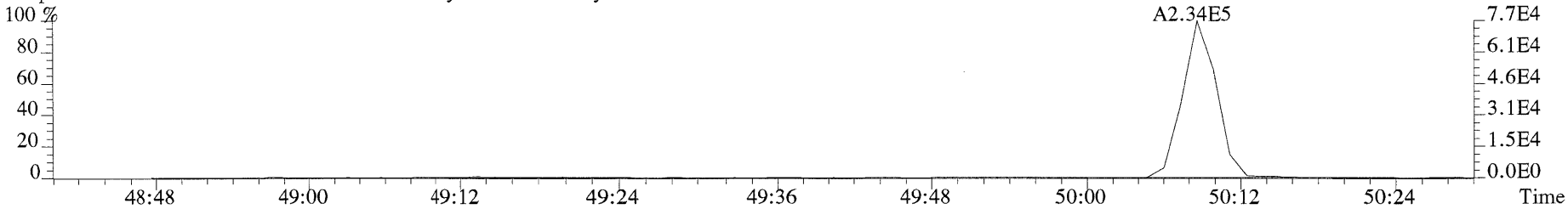
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



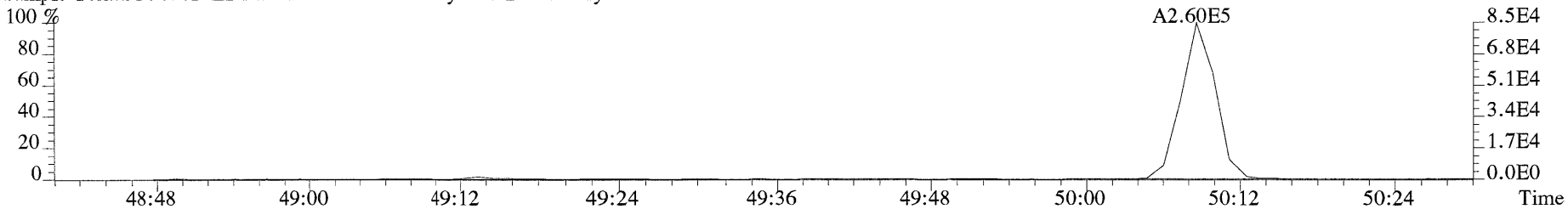
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



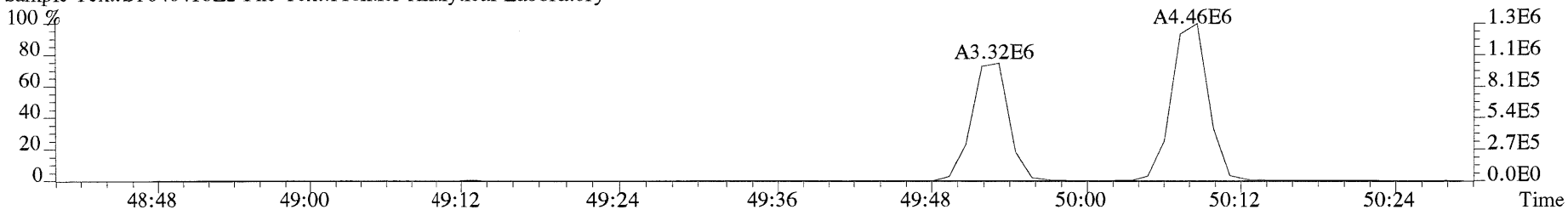
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



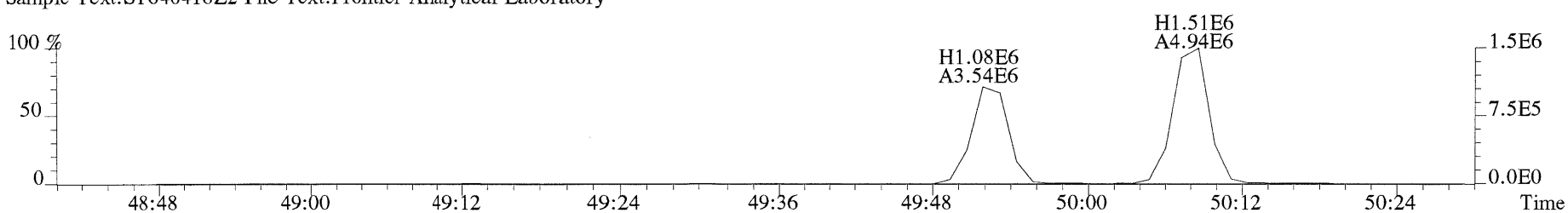
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



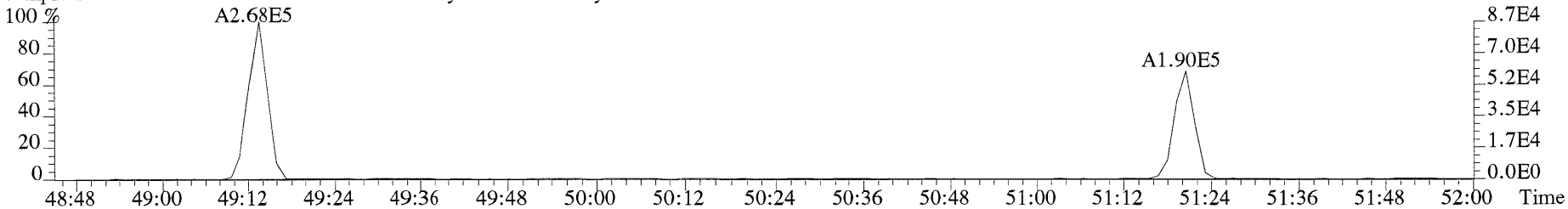
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



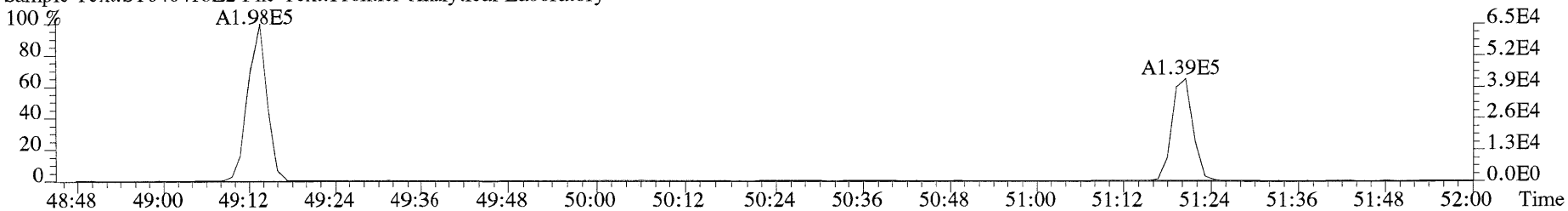
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



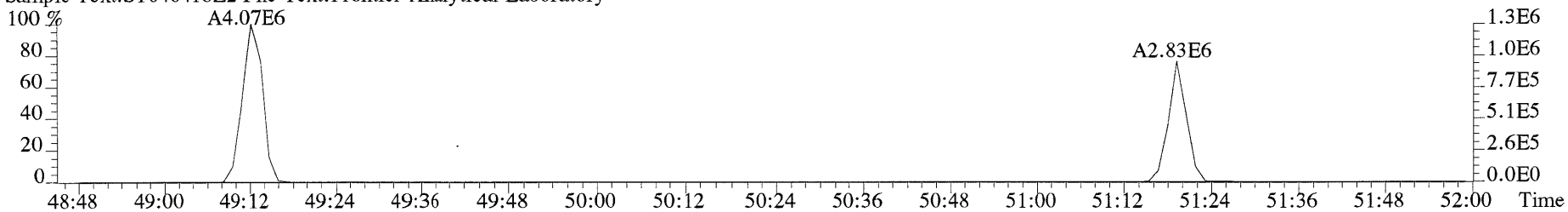
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



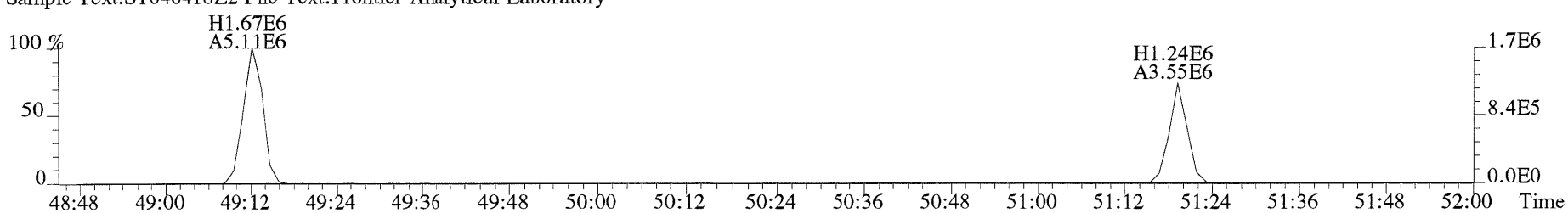
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



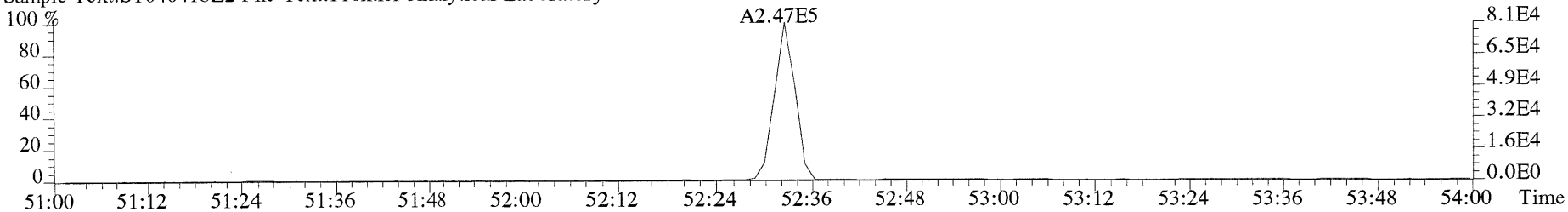
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



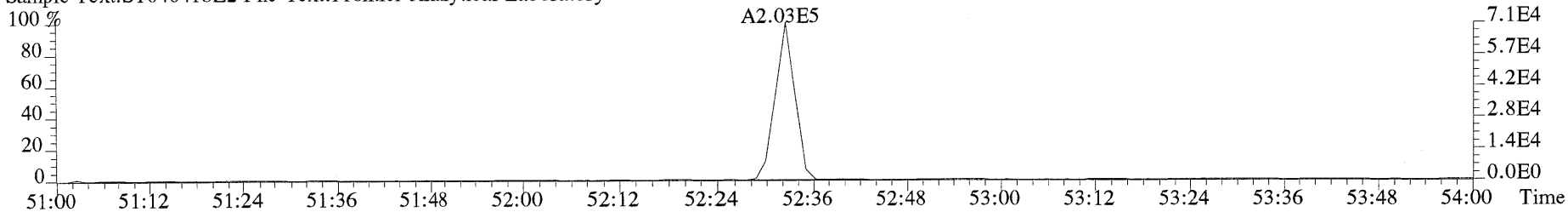
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



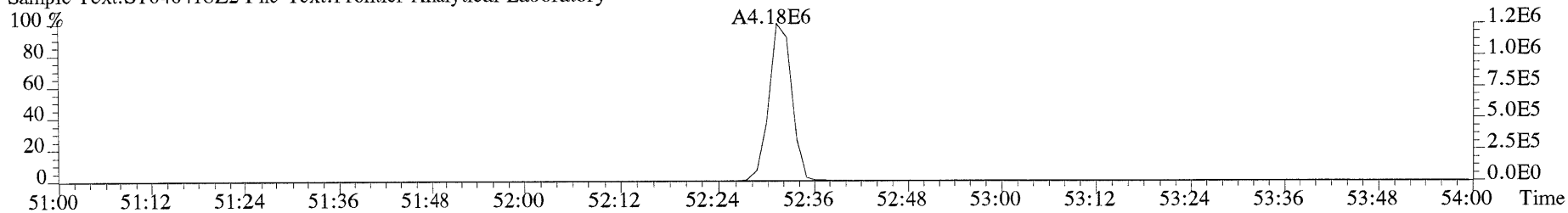
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



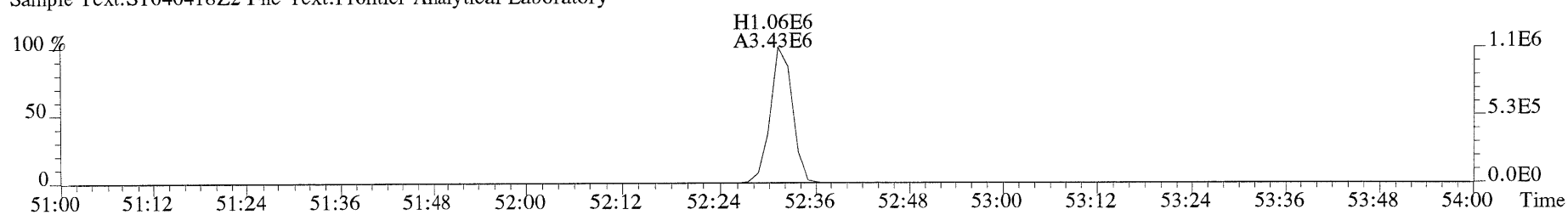
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



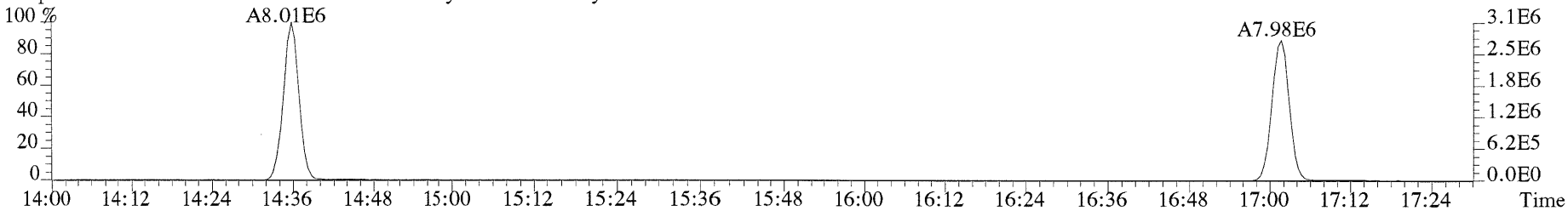
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



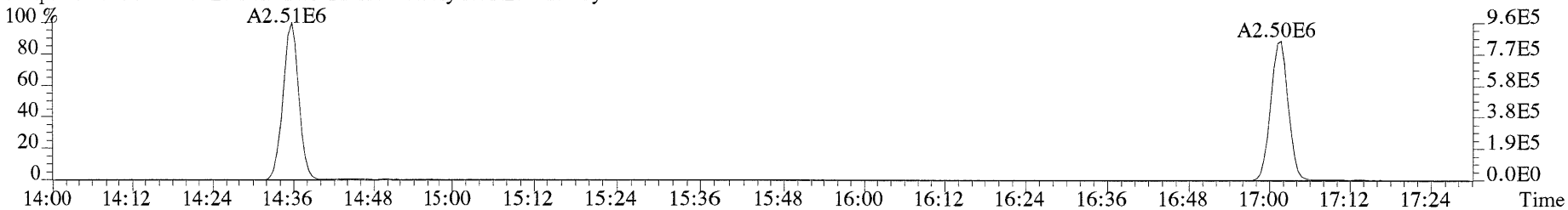
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



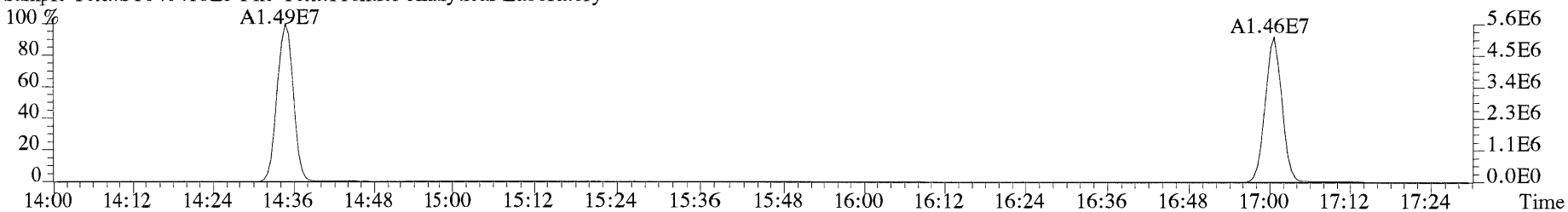
File:04APR18Z #1-784 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



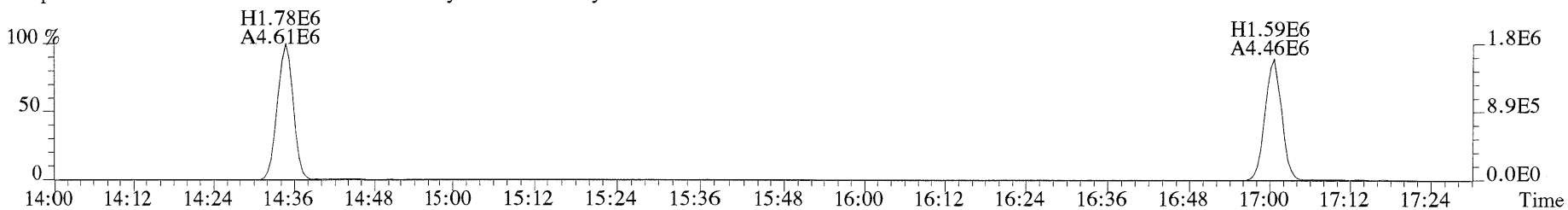
File:04APR18Z #1-784 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



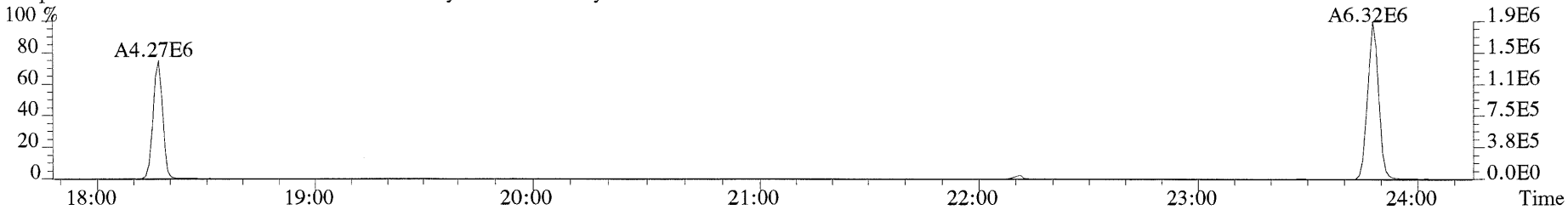
File:04APR18Z #1-784 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



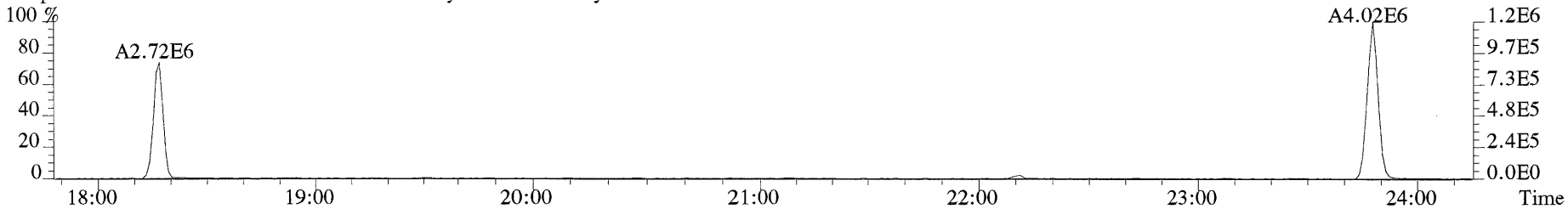
File:04APR18Z #1-784 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



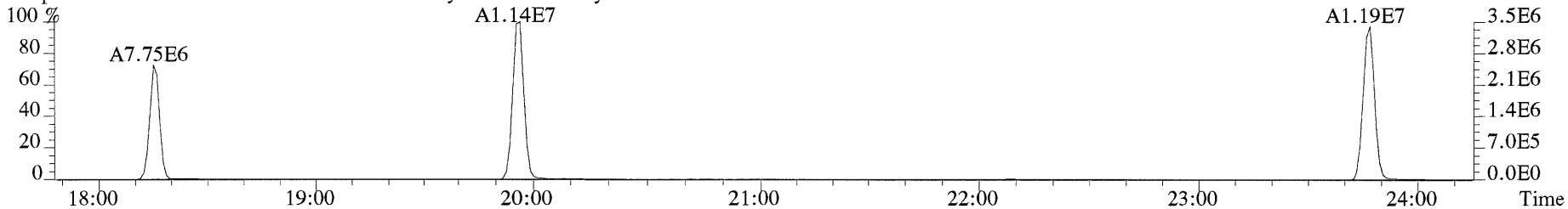
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



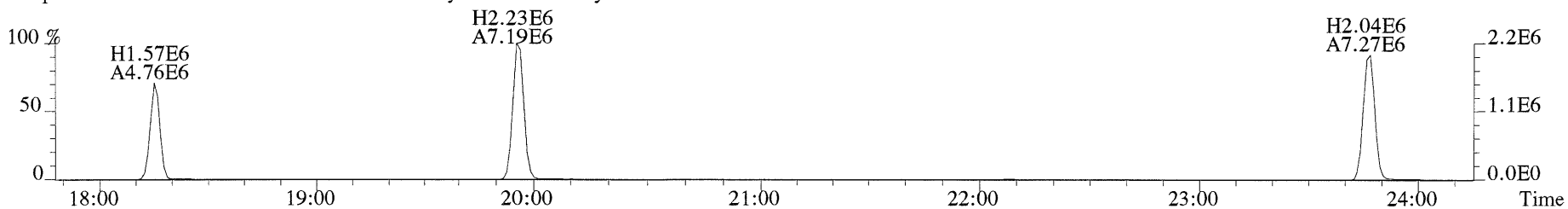
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



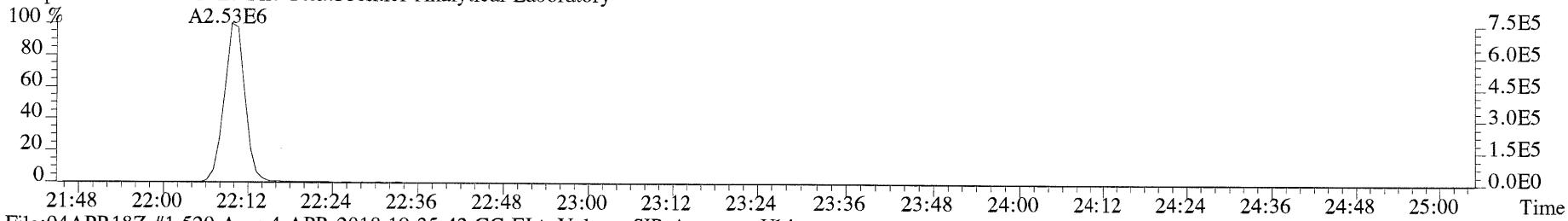
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



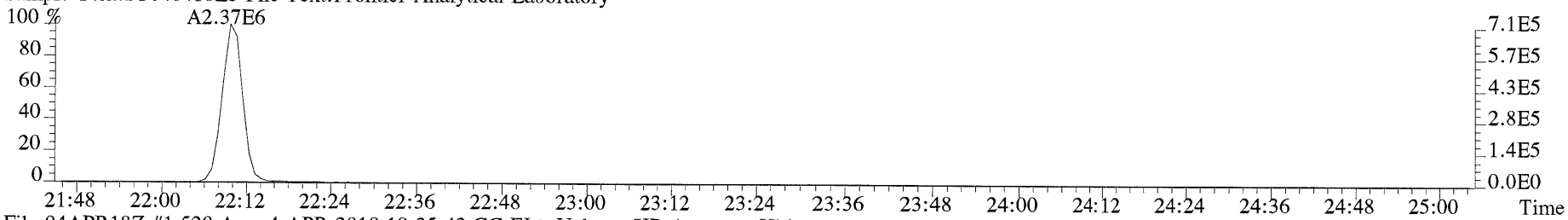
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



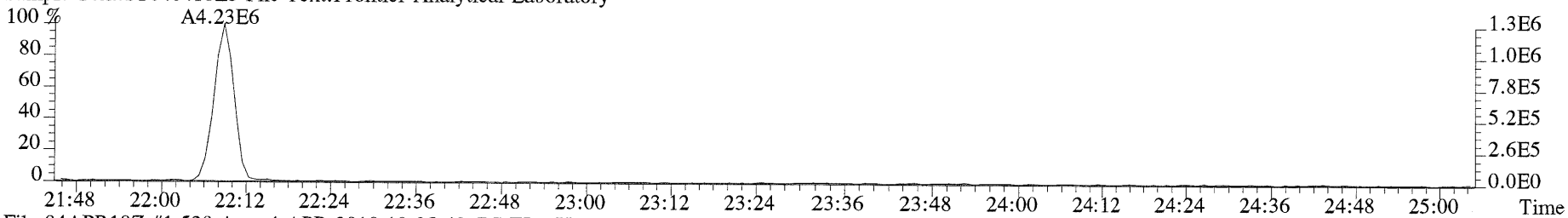
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



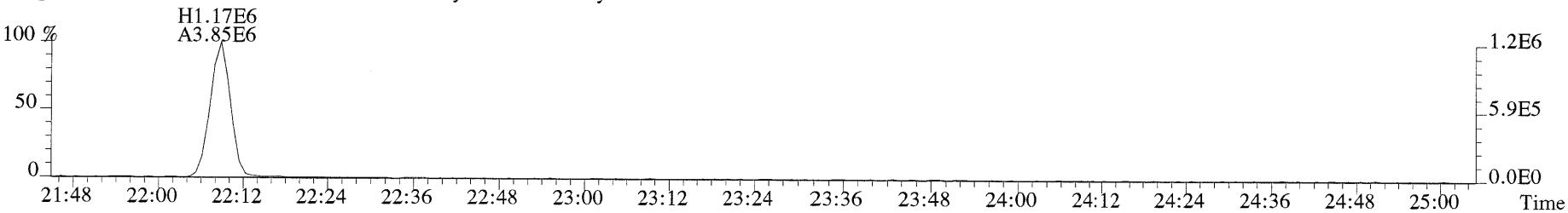
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



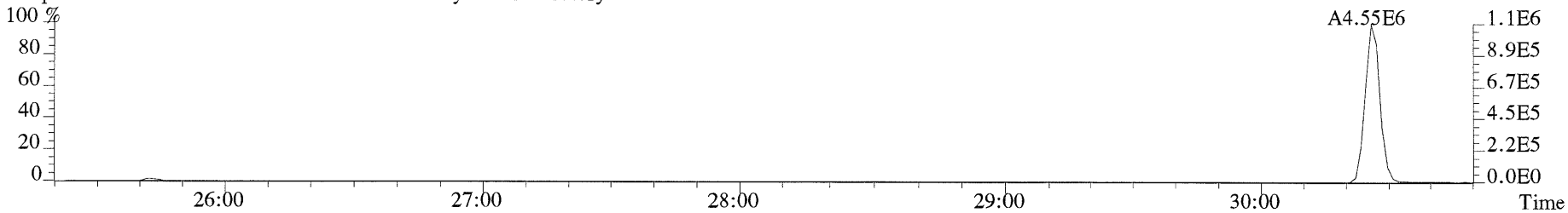
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



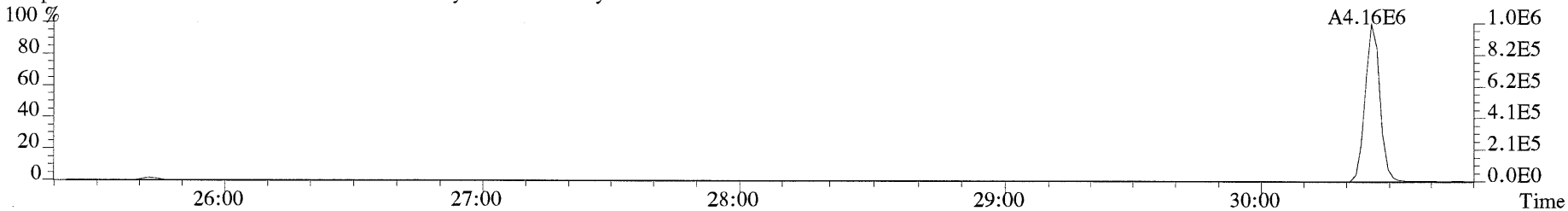
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



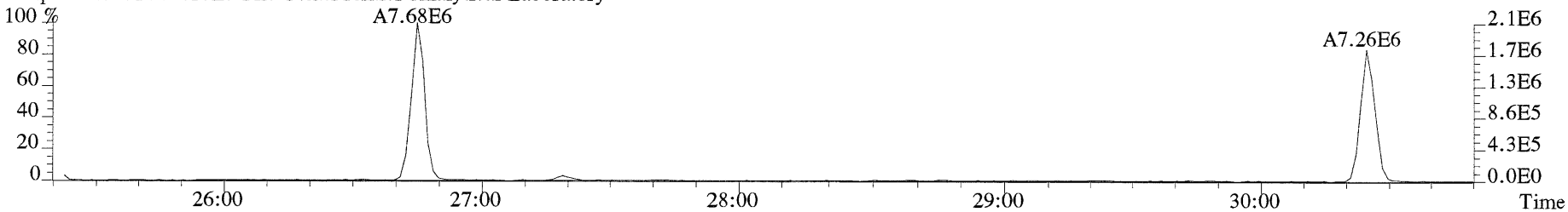
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



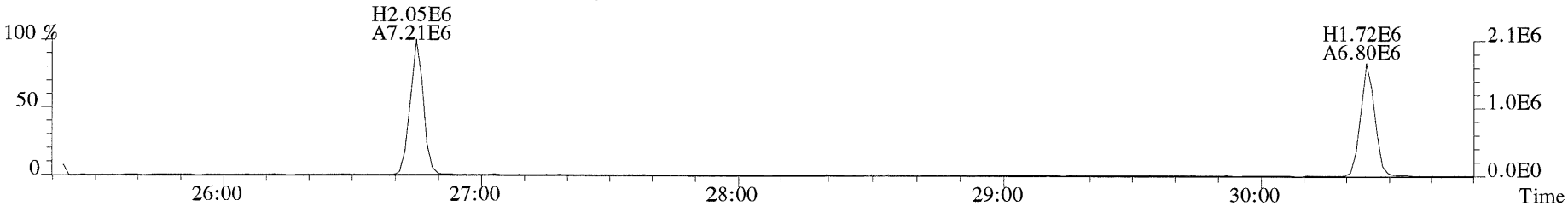
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



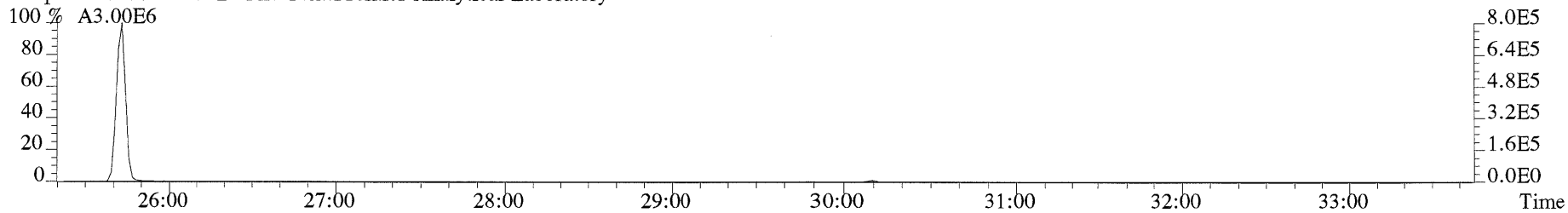
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



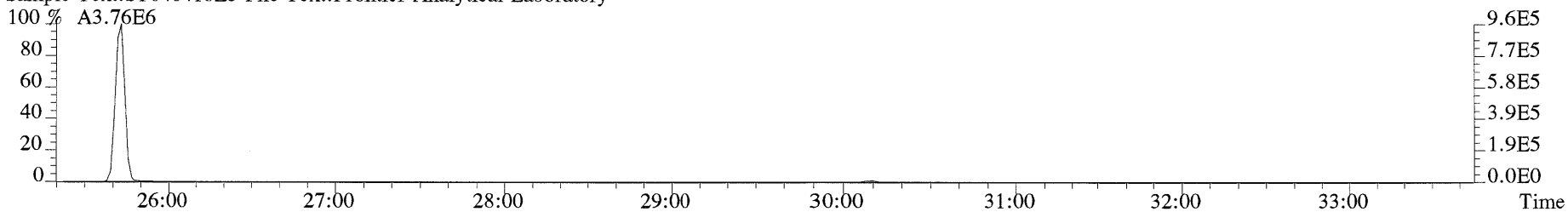
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



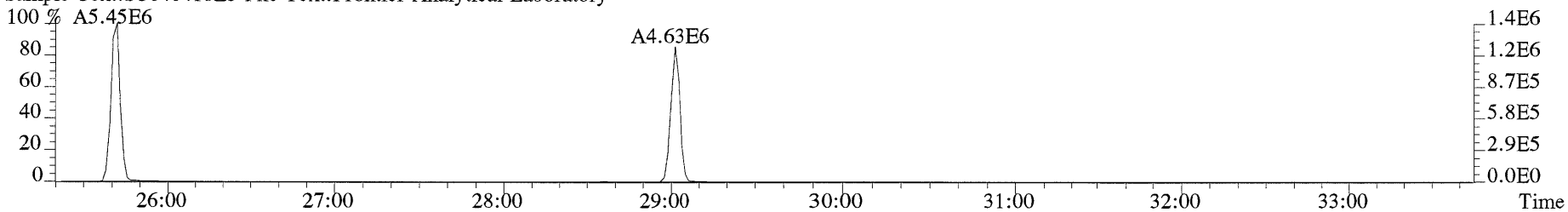
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



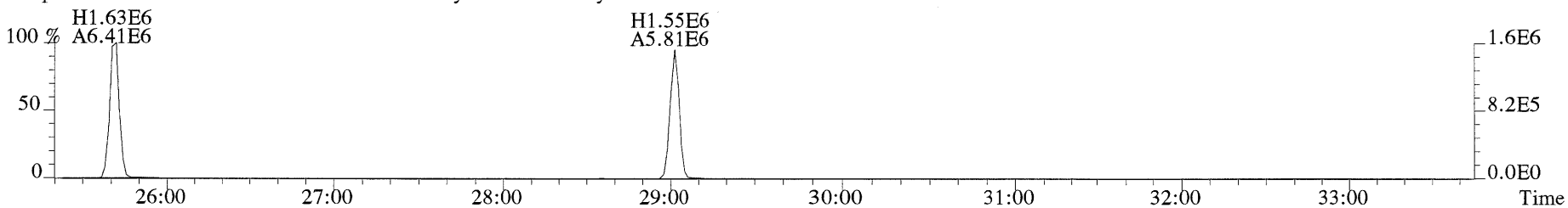
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



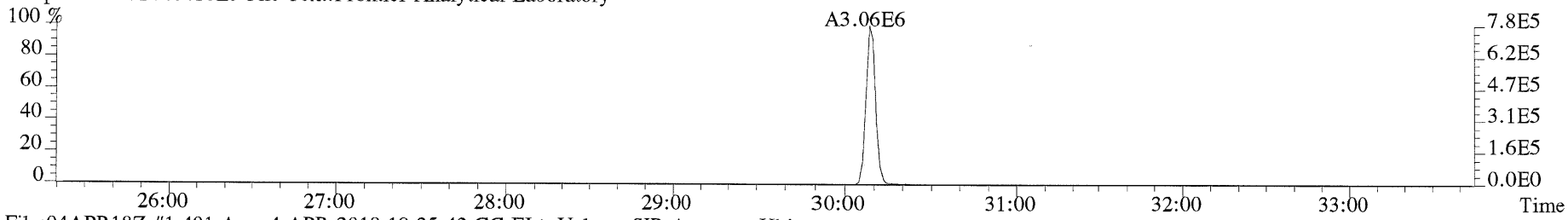
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



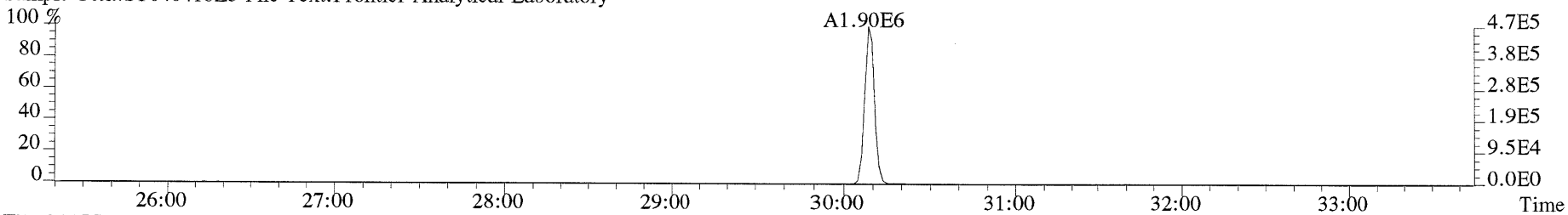
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



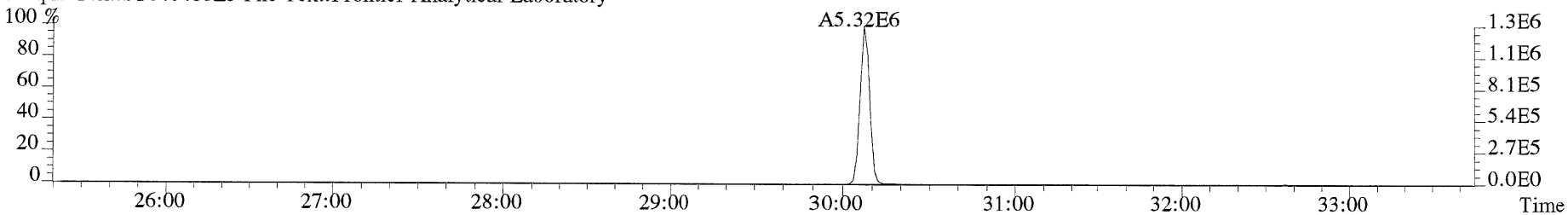
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



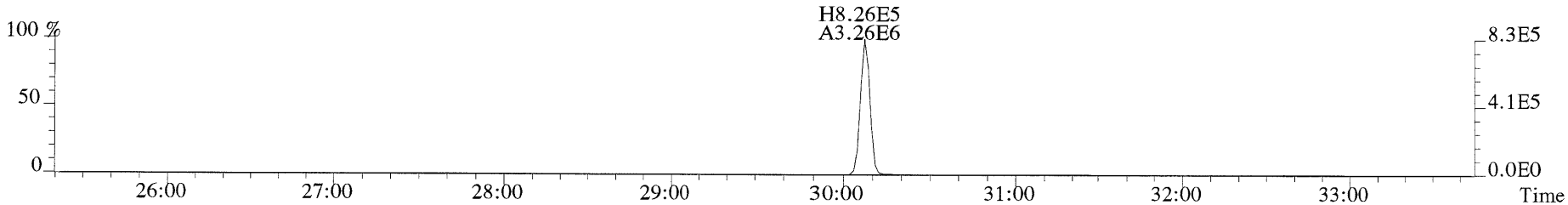
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



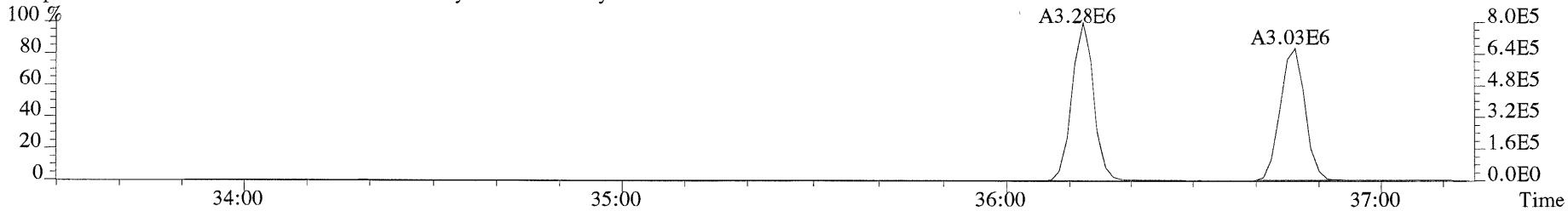
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



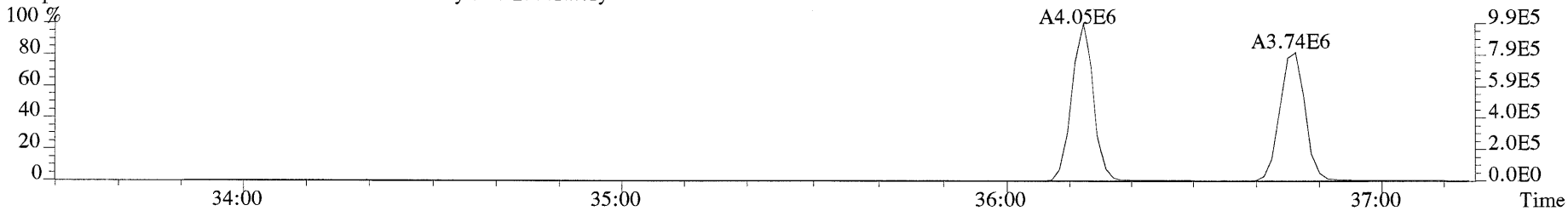
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



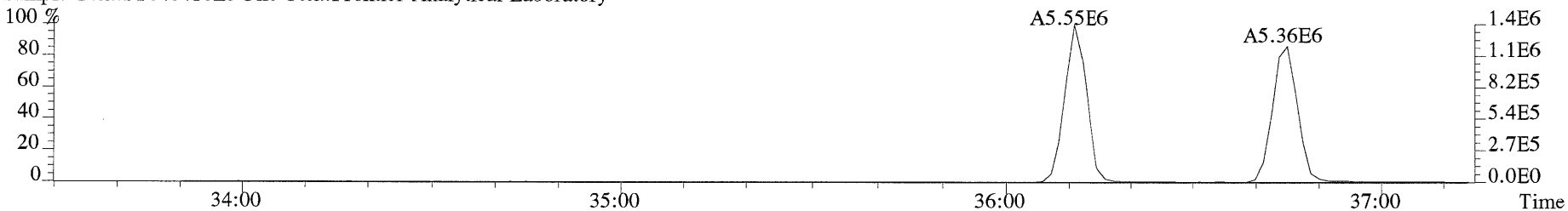
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



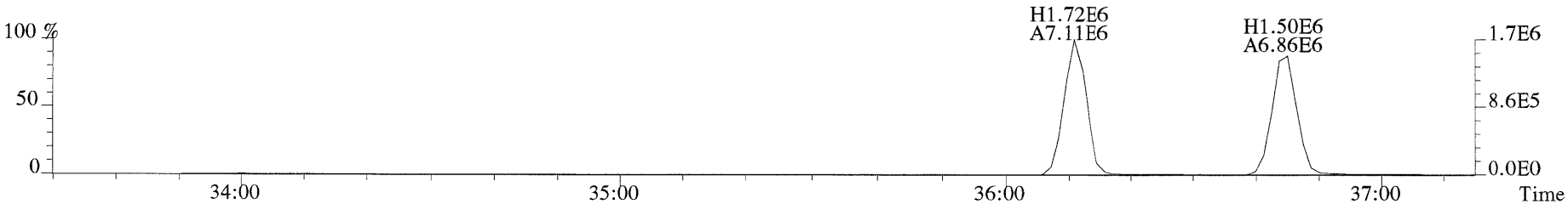
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



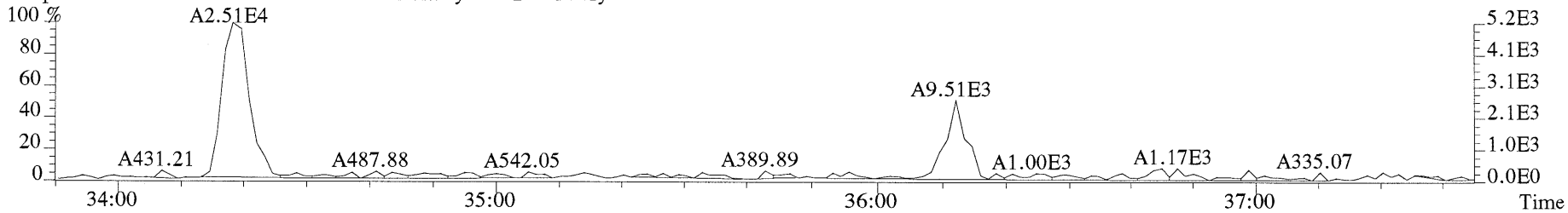
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



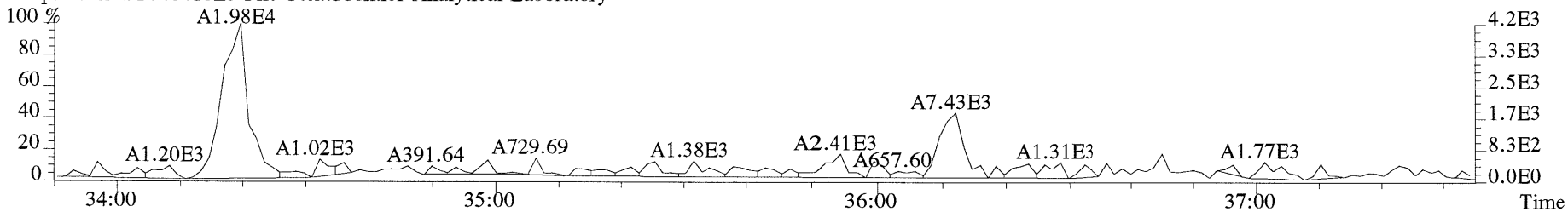
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



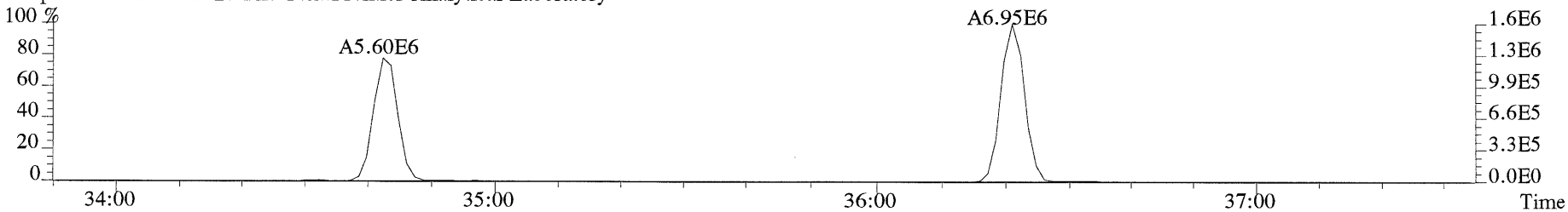
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



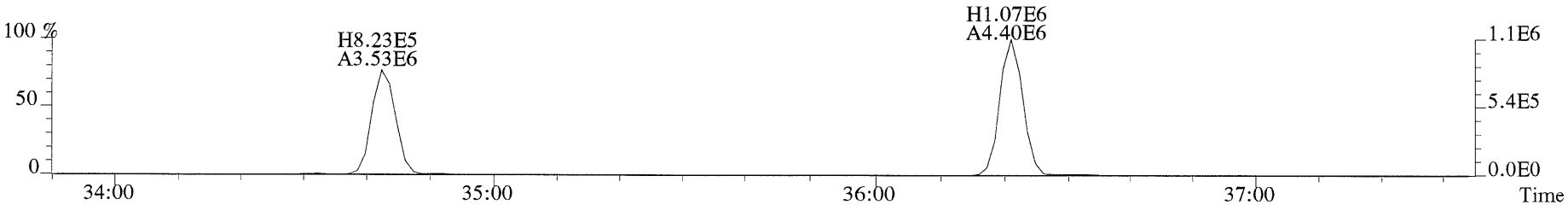
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



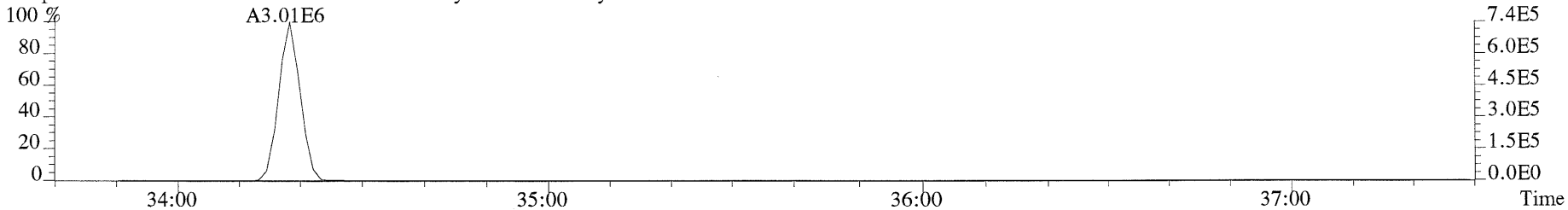
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



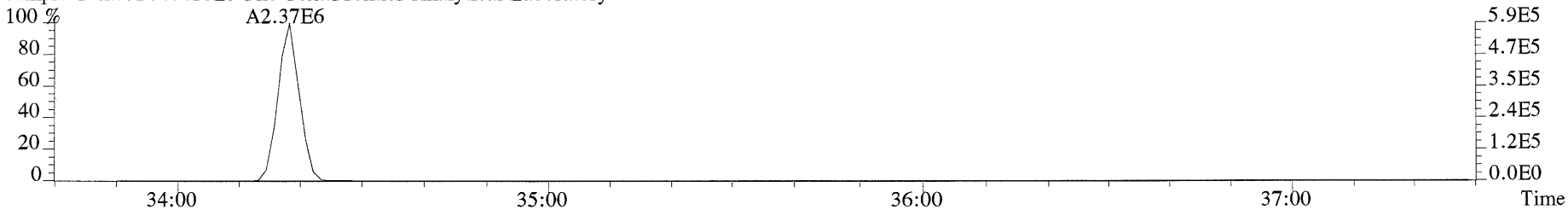
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



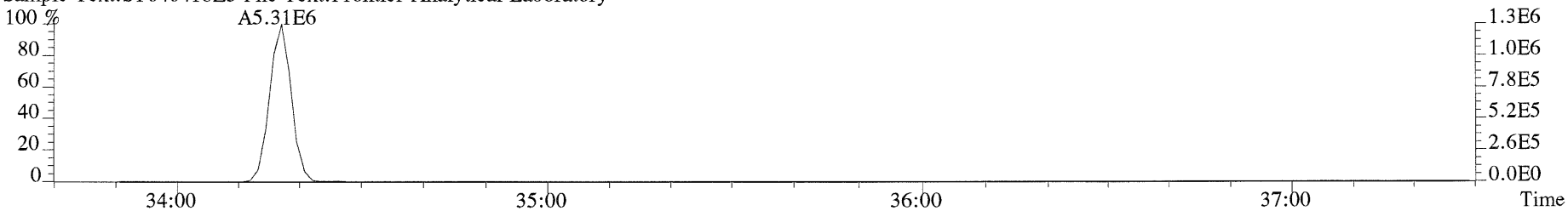
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



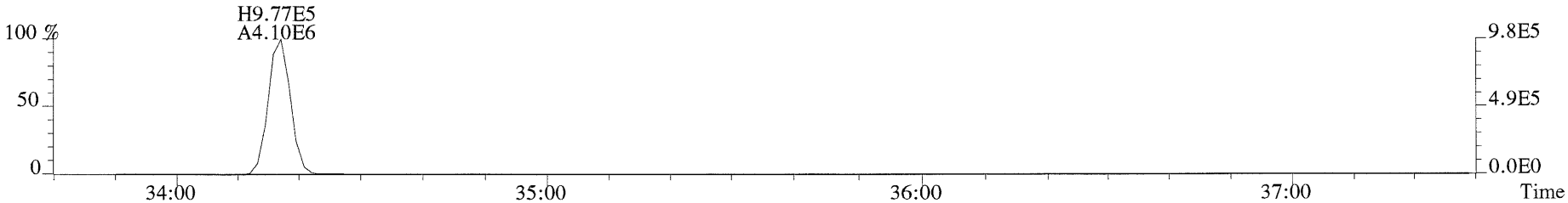
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



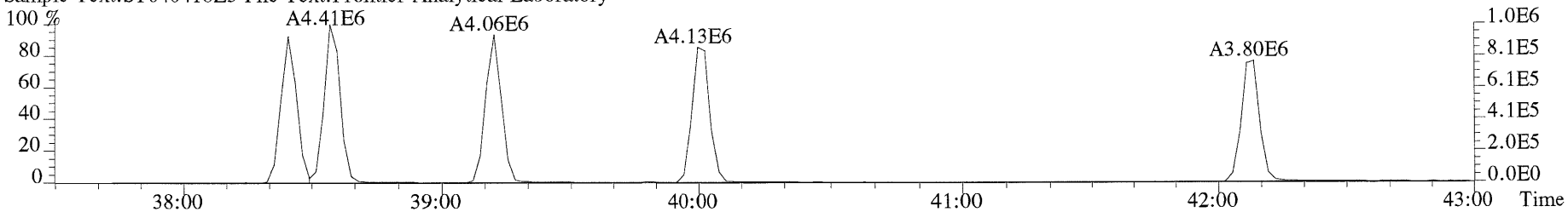
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



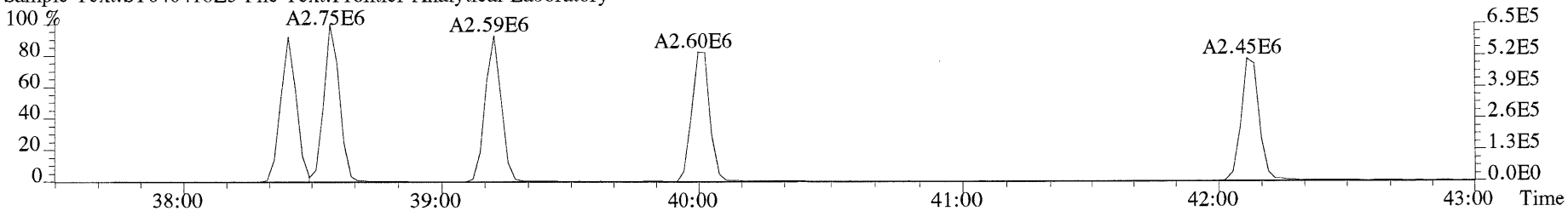
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



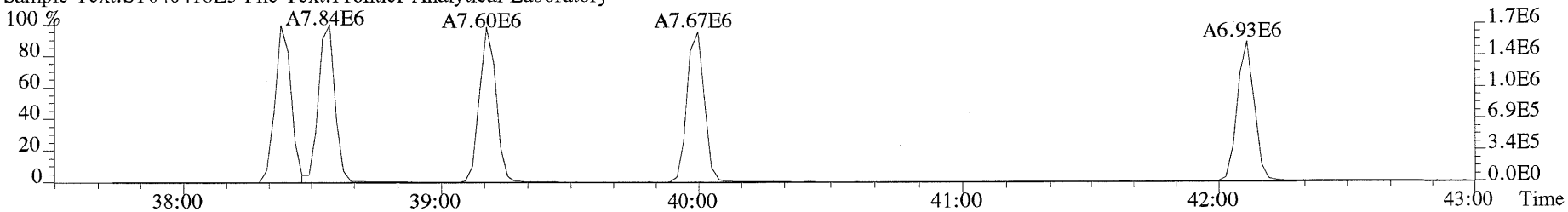
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



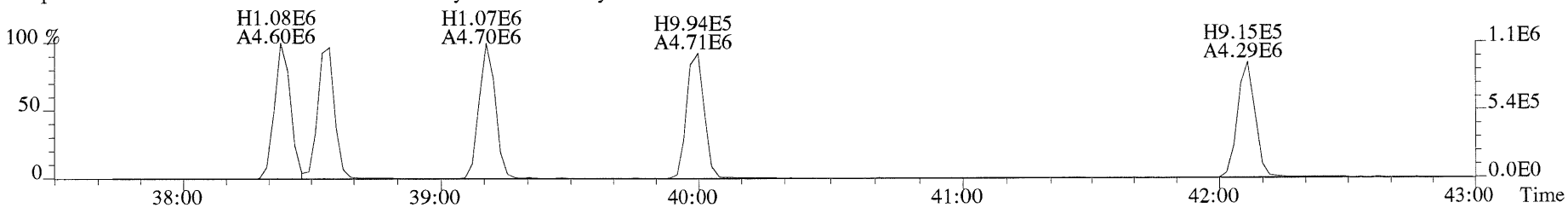
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



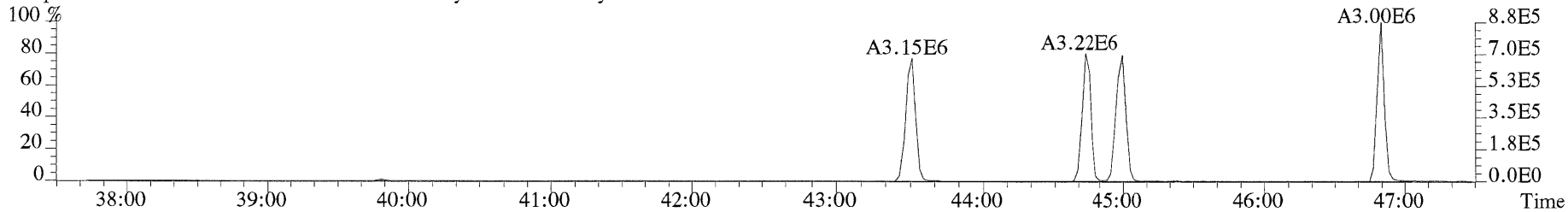
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



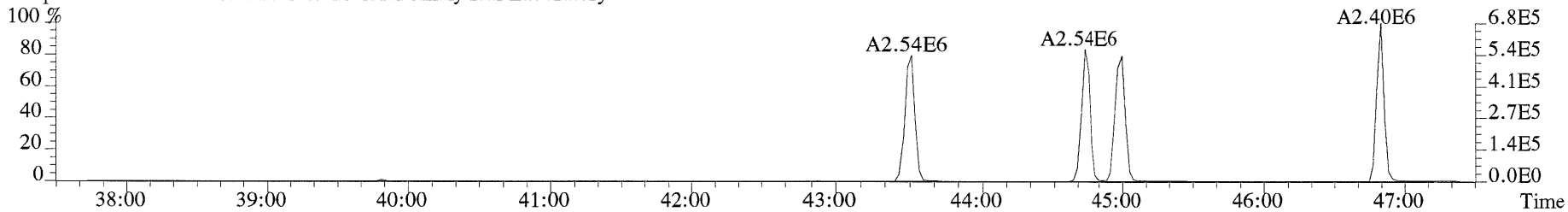
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



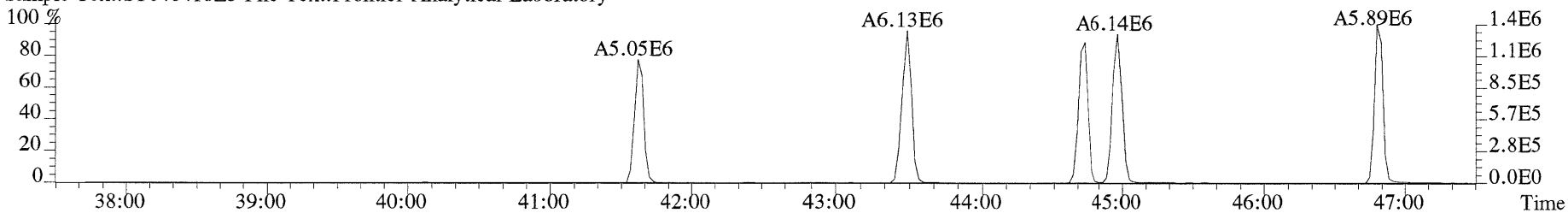
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



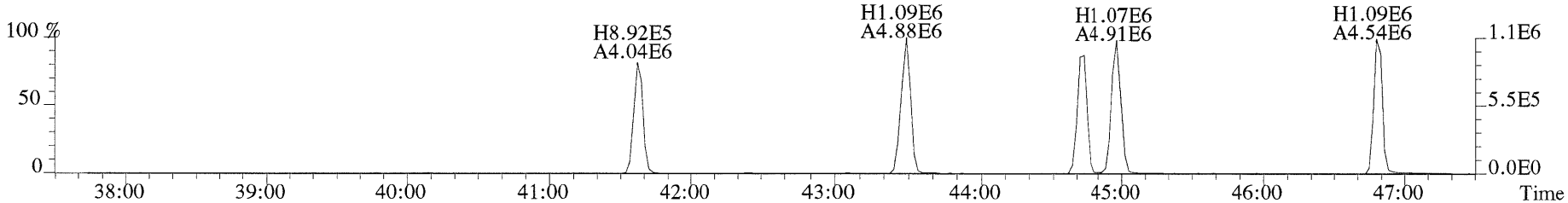
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



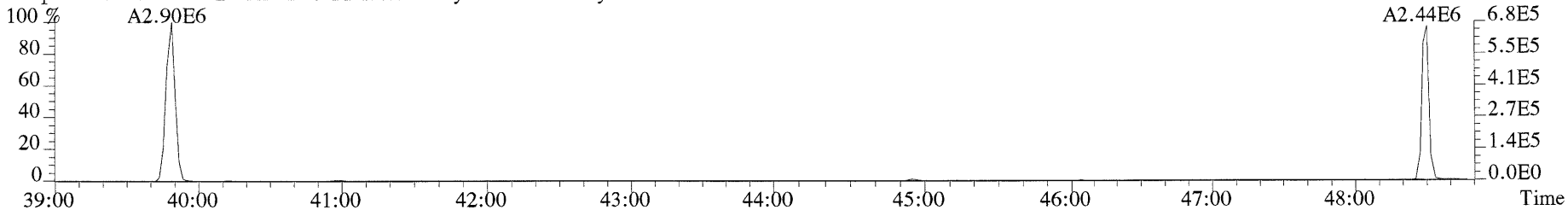
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



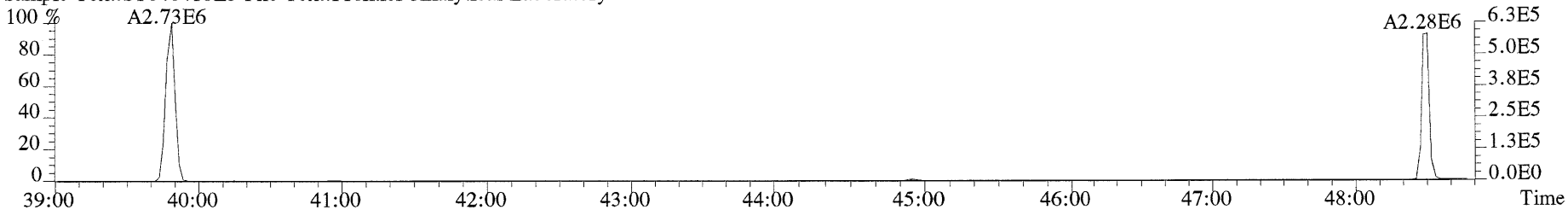
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



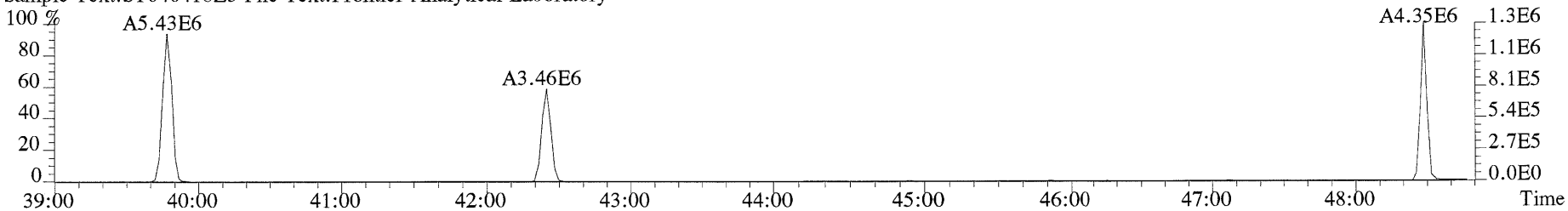
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



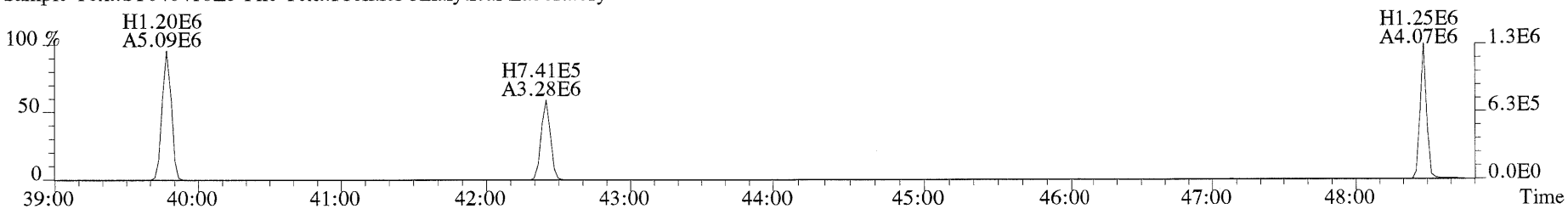
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



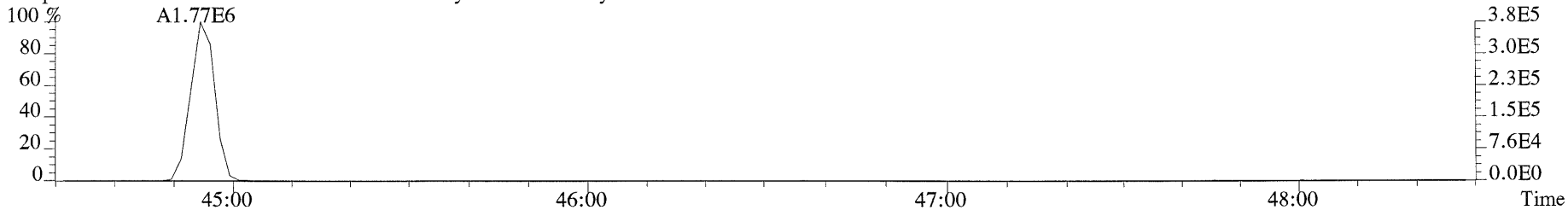
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



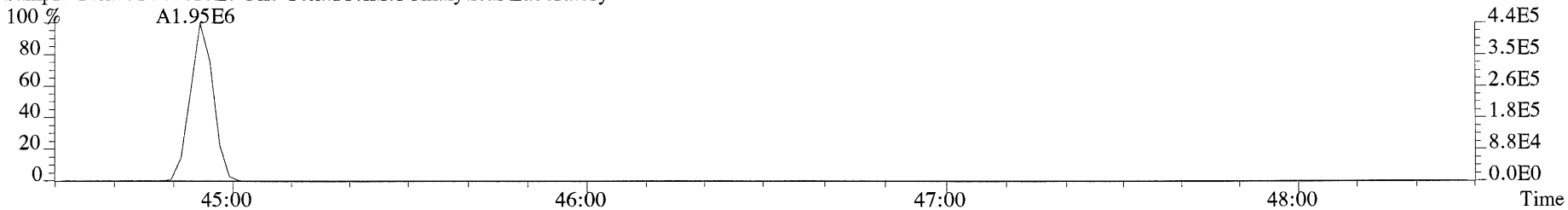
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



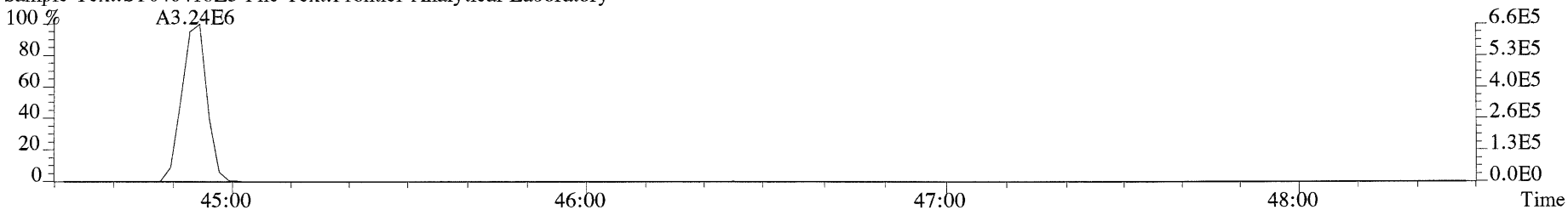
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



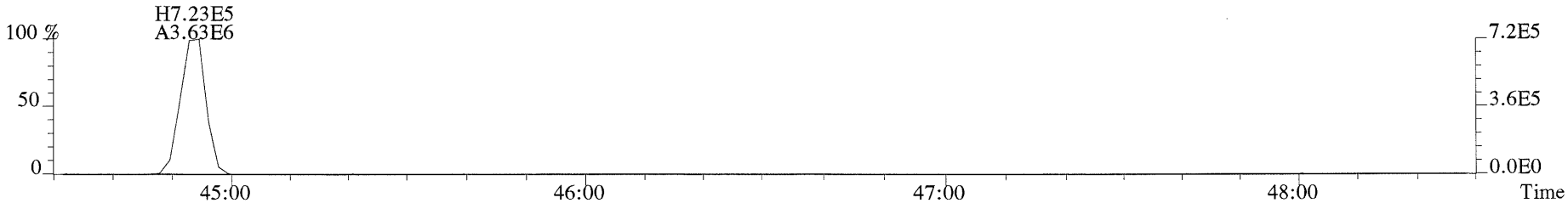
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



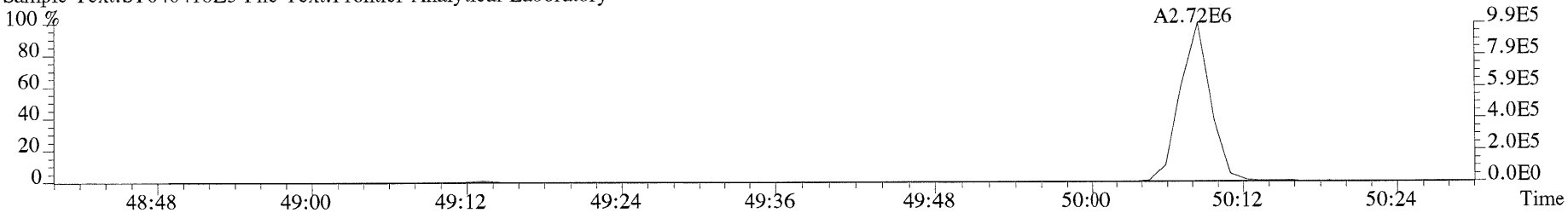
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



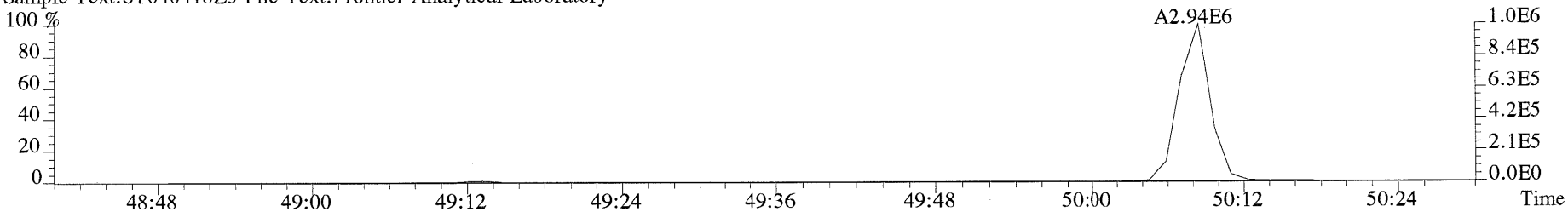
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



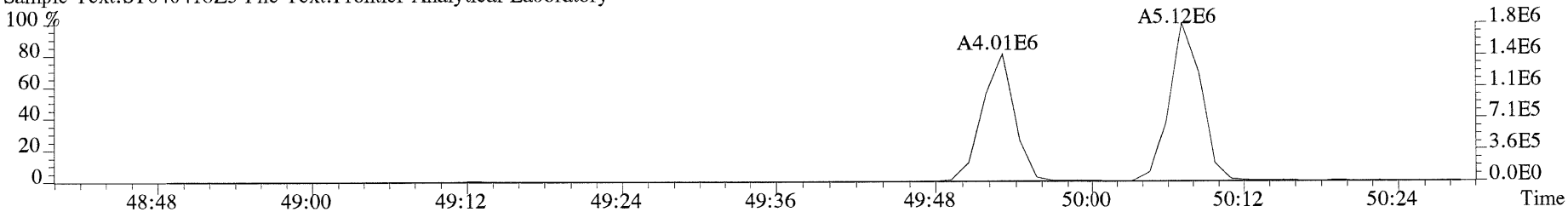
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



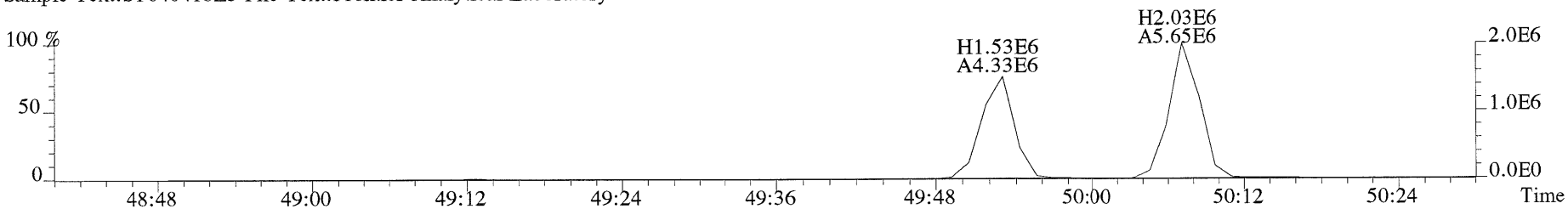
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



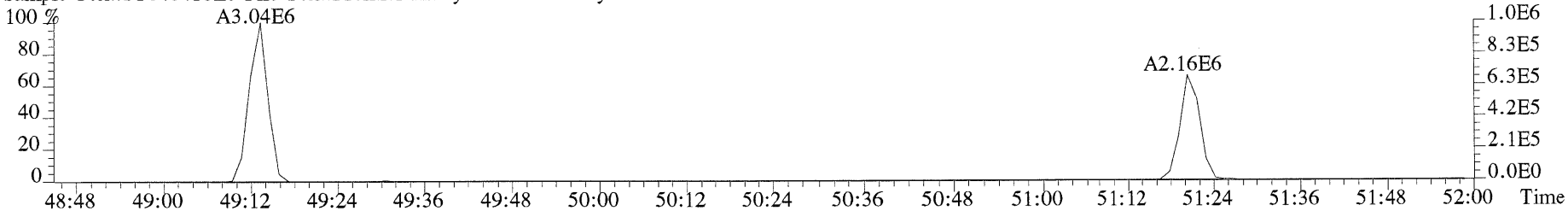
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



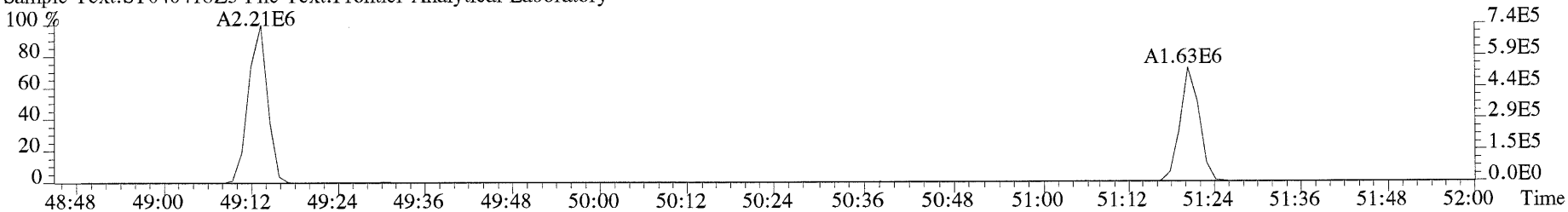
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



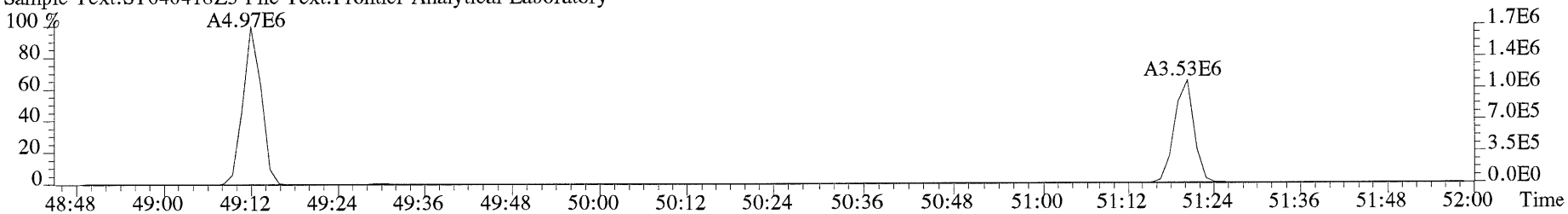
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



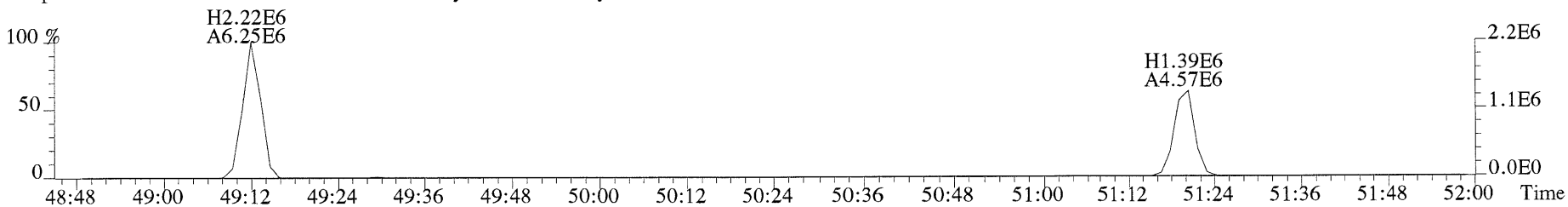
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



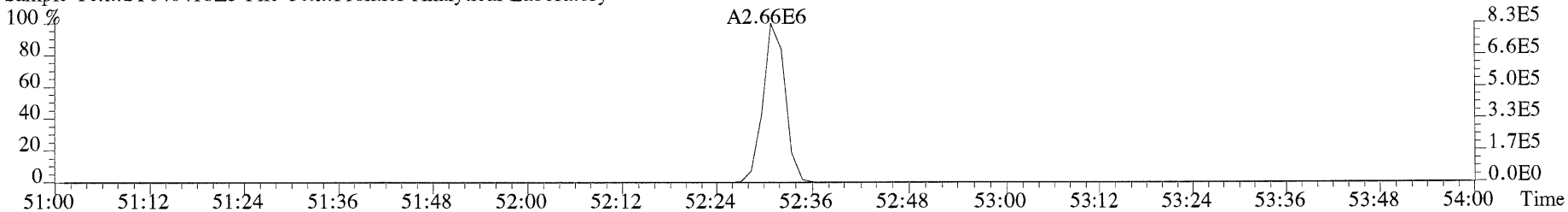
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



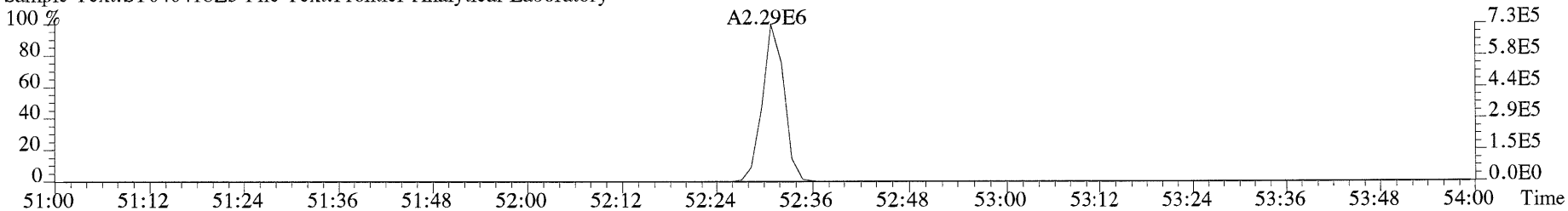
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



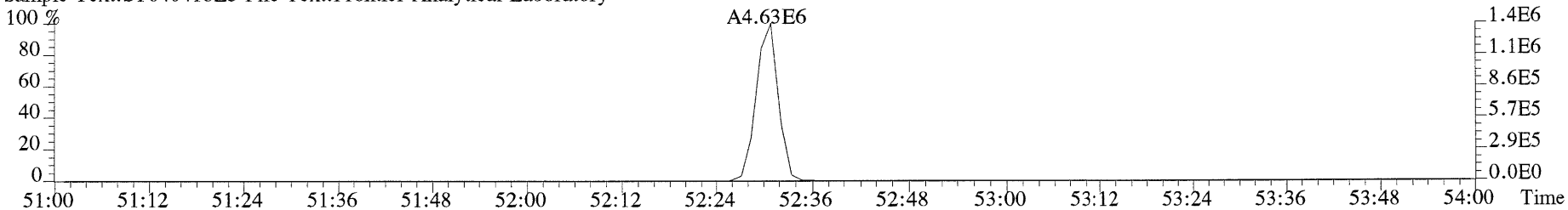
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



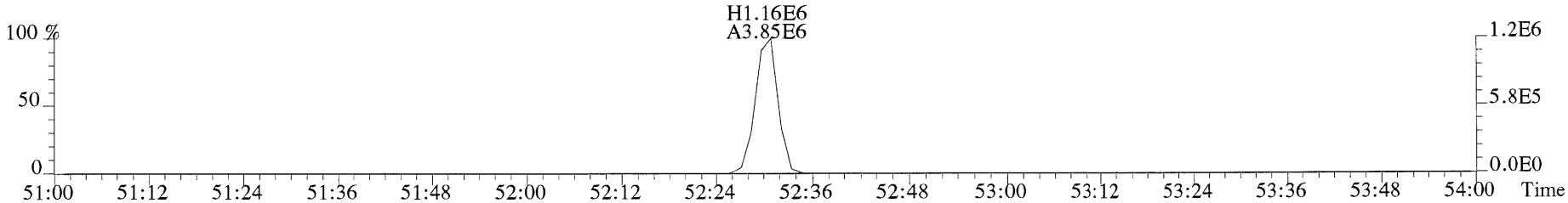
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



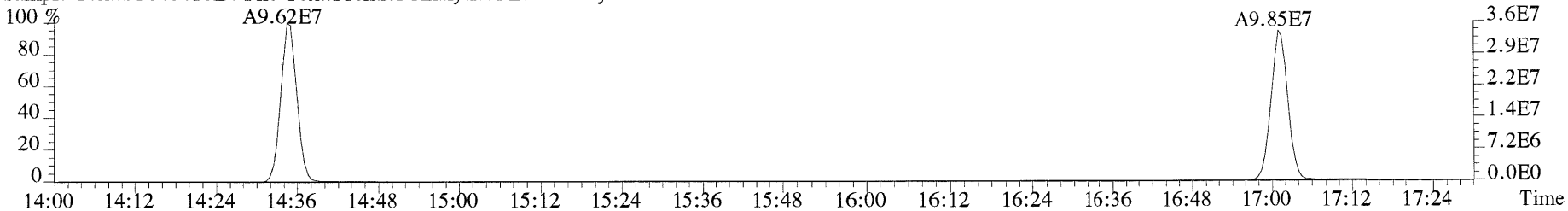
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



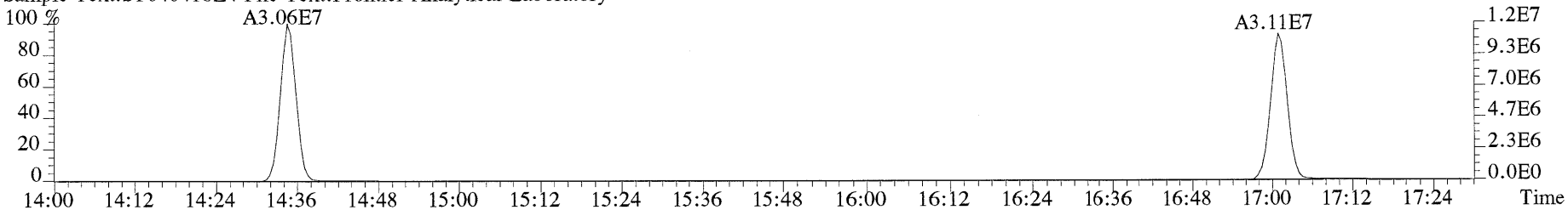
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



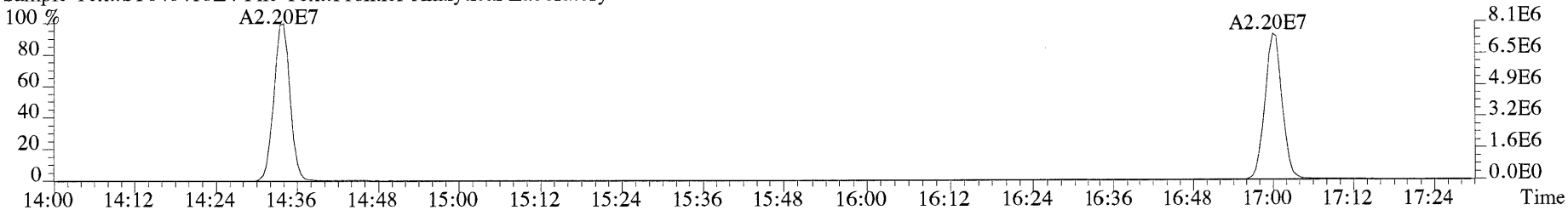
File:04APR18Z #1-784 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



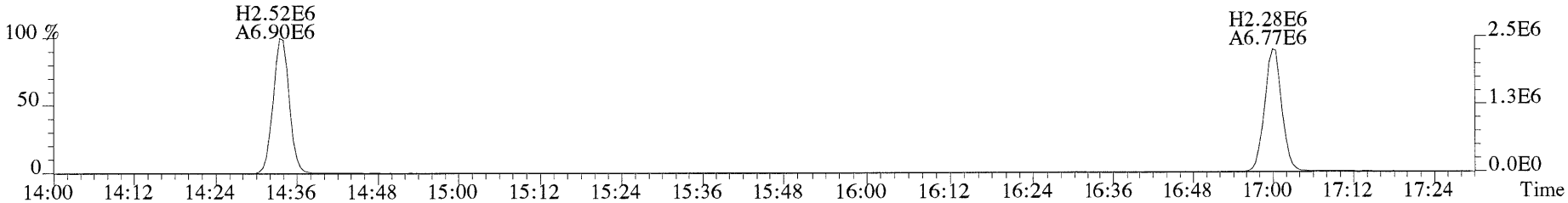
File:04APR18Z #1-784 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



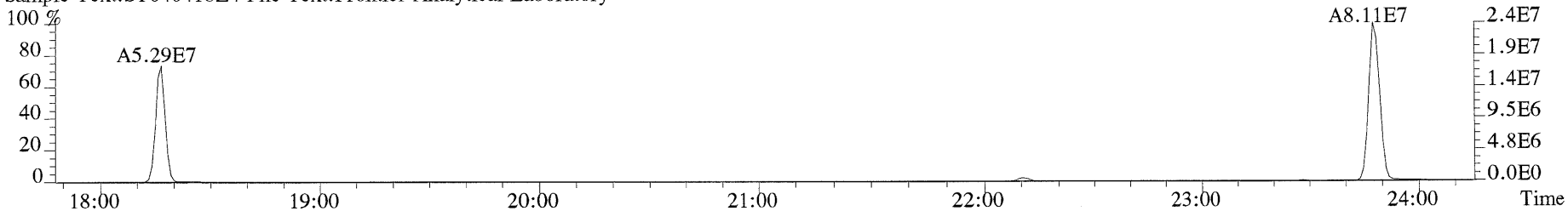
File:04APR18Z #1-784 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



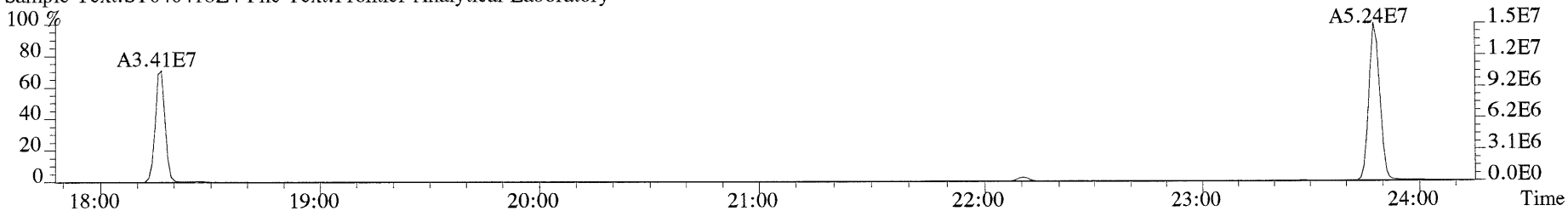
File:04APR18Z #1-784 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



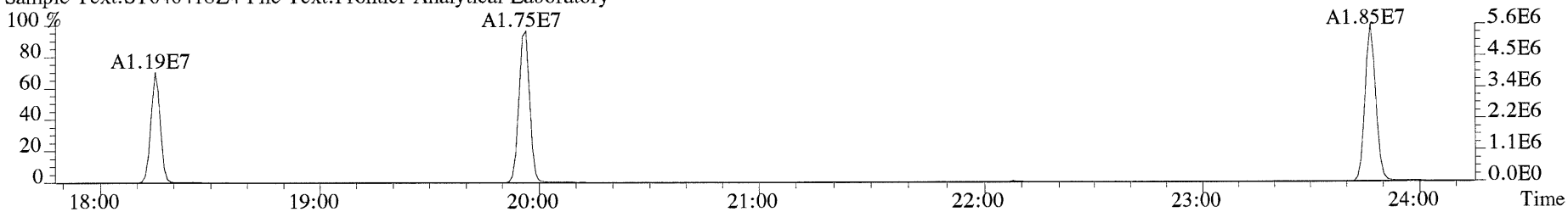
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



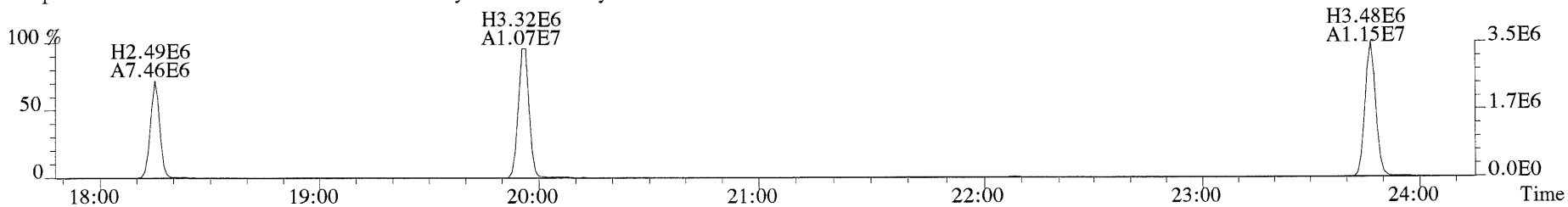
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



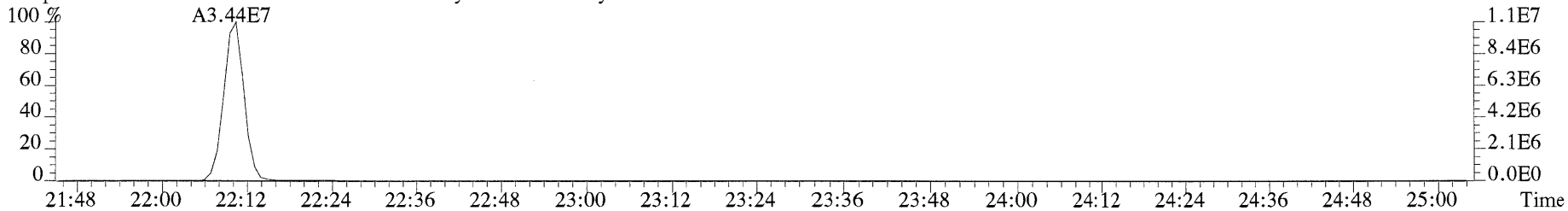
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



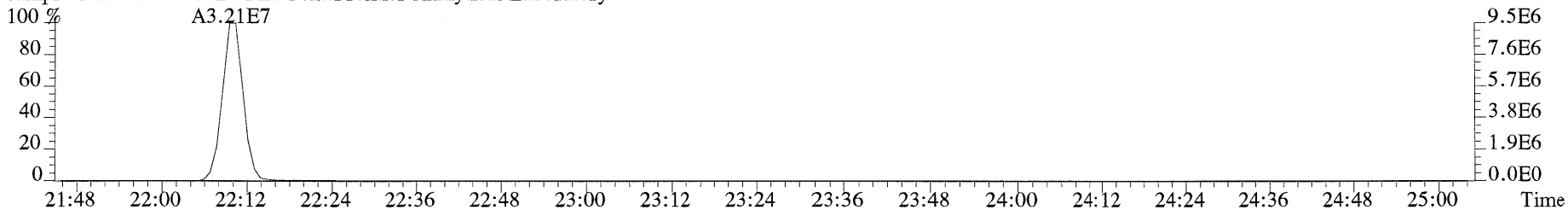
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



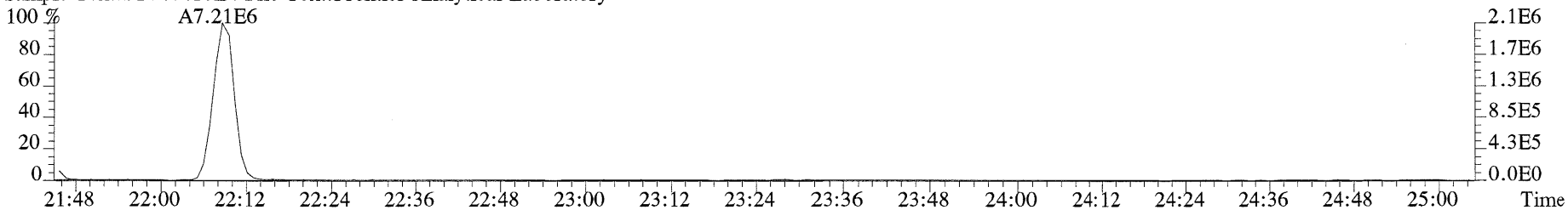
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



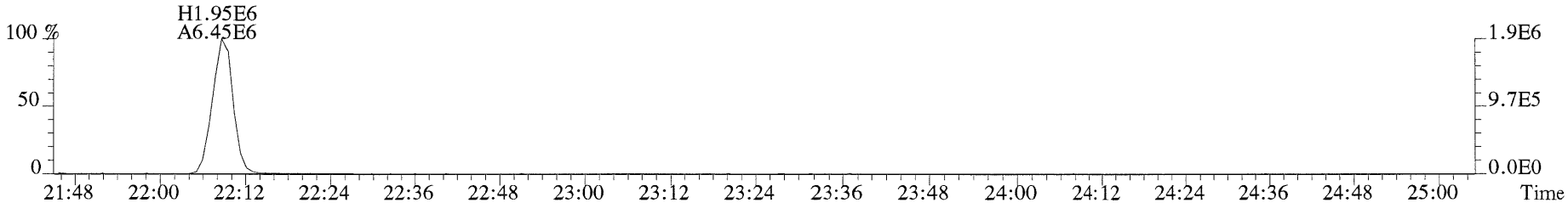
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



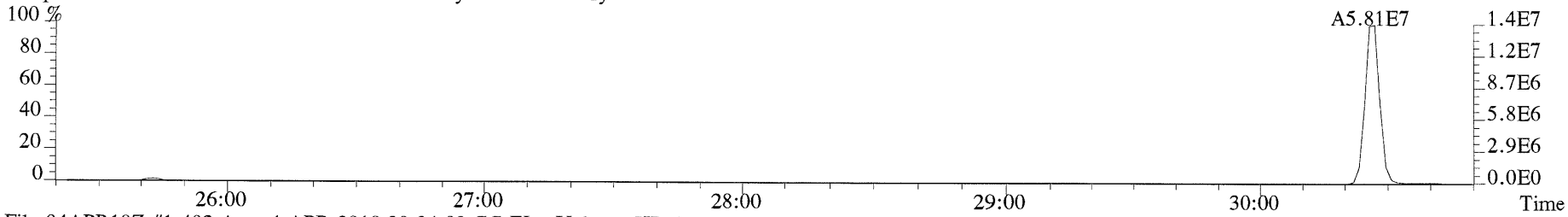
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



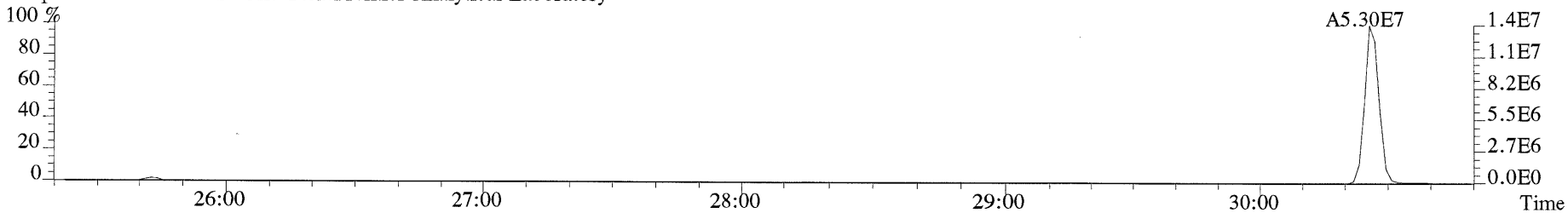
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



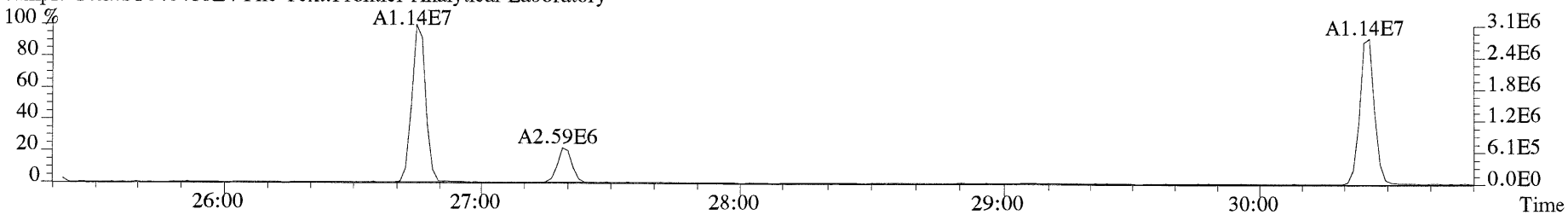
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



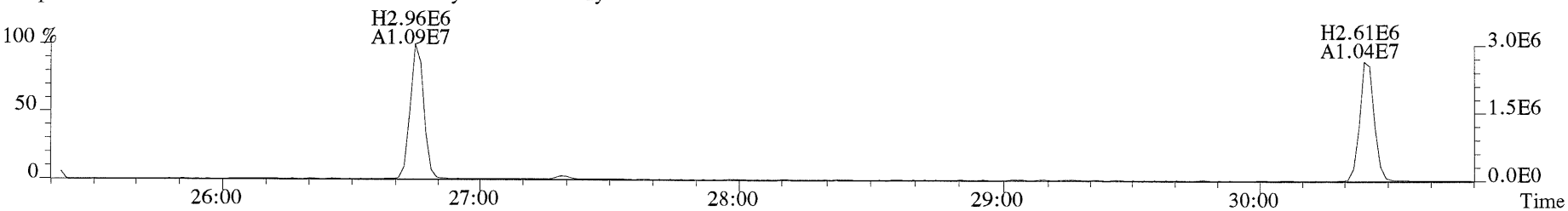
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



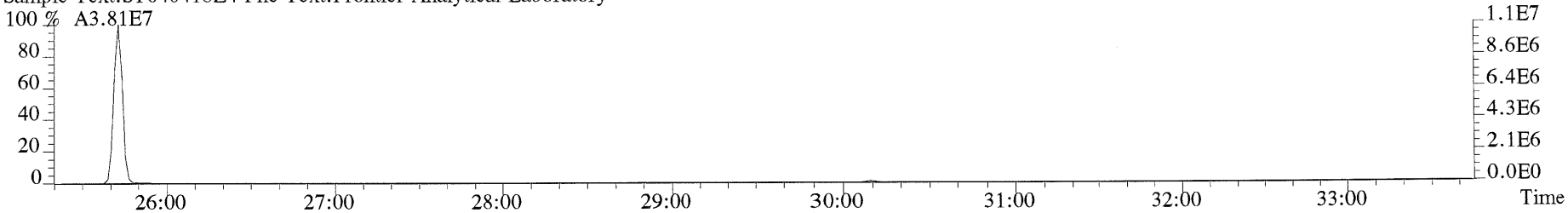
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



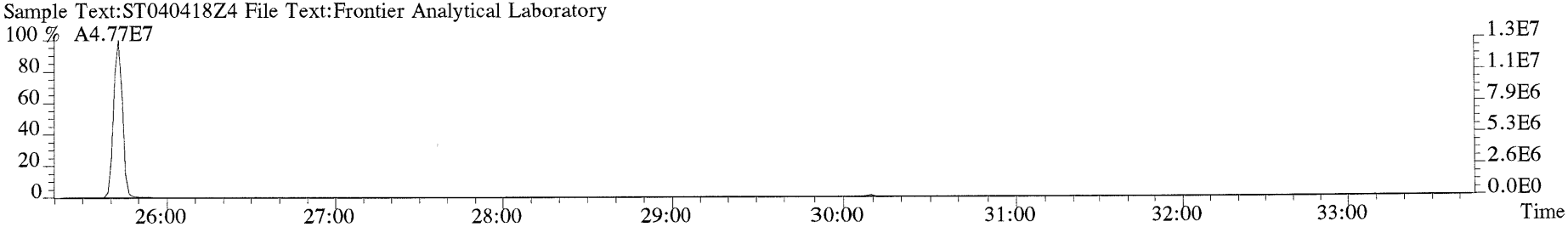
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



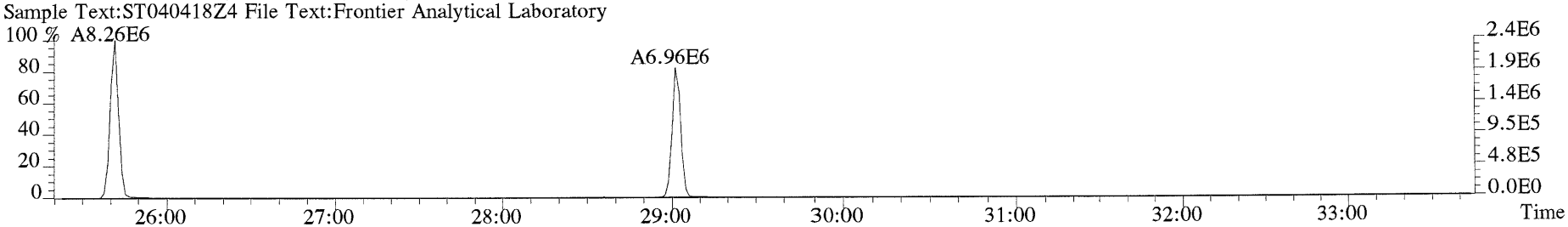
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



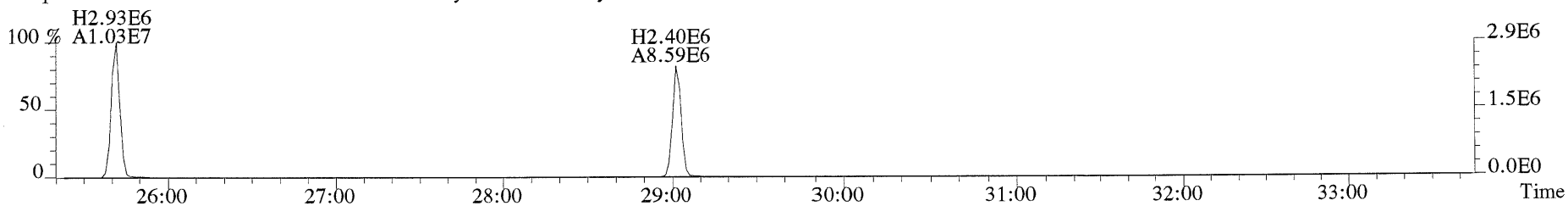
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



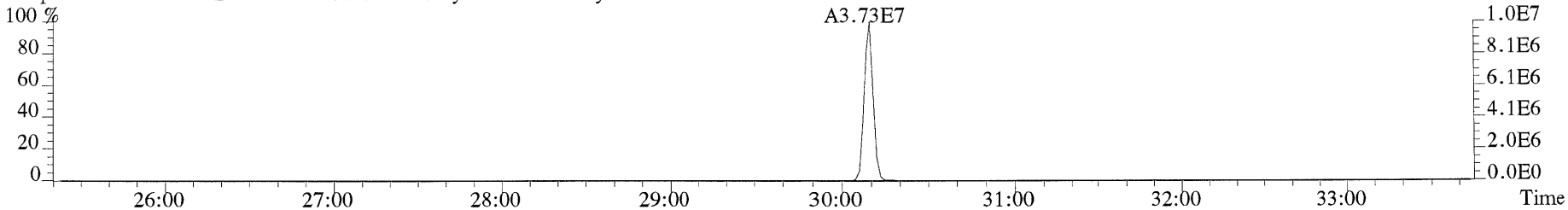
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



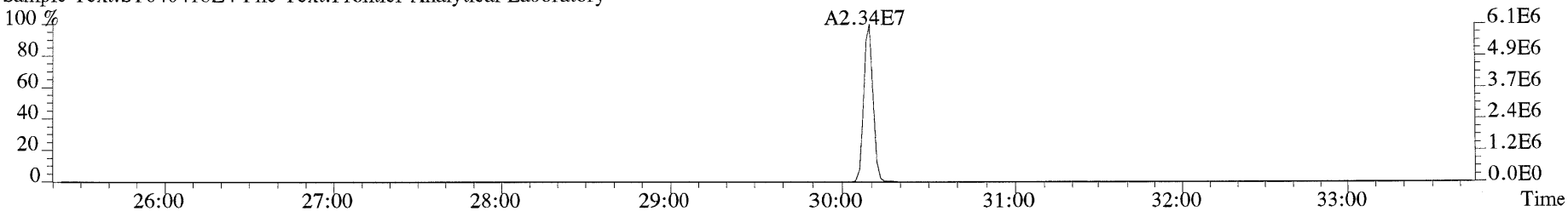
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



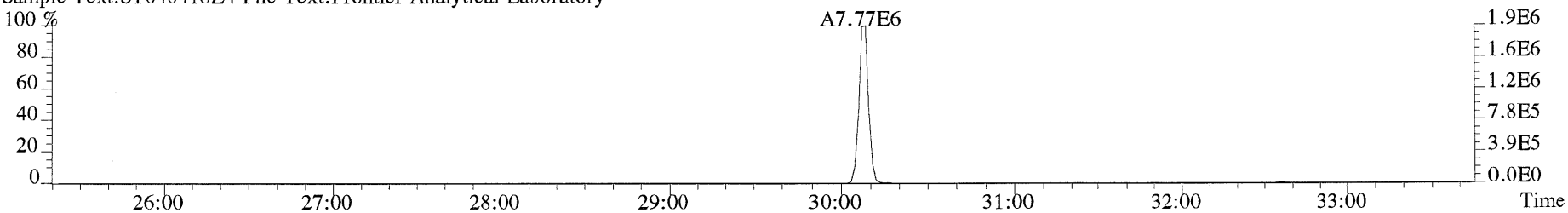
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



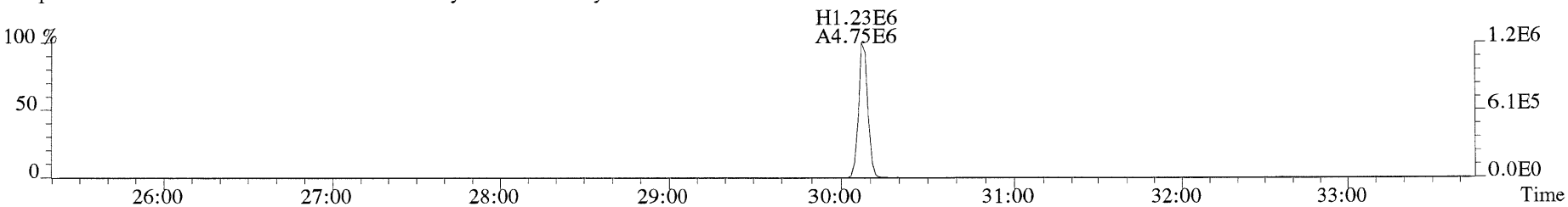
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



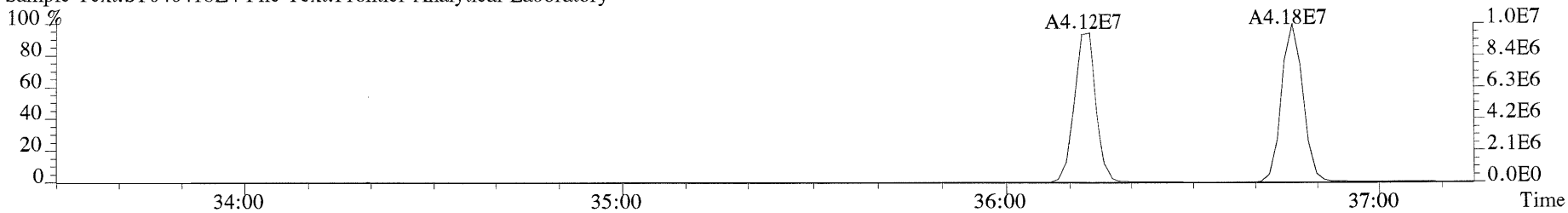
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



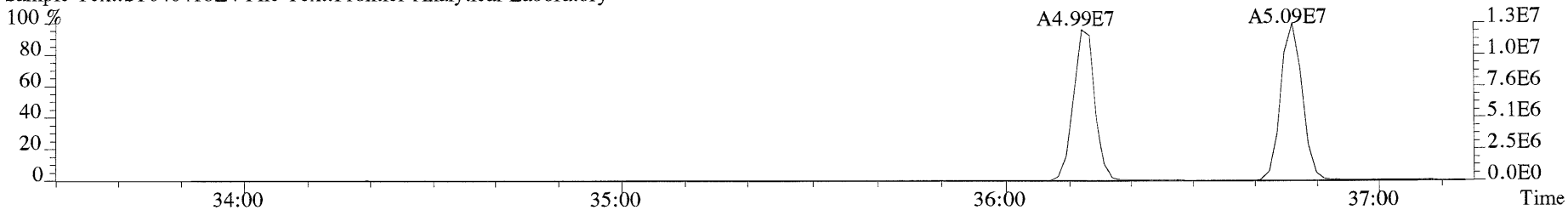
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



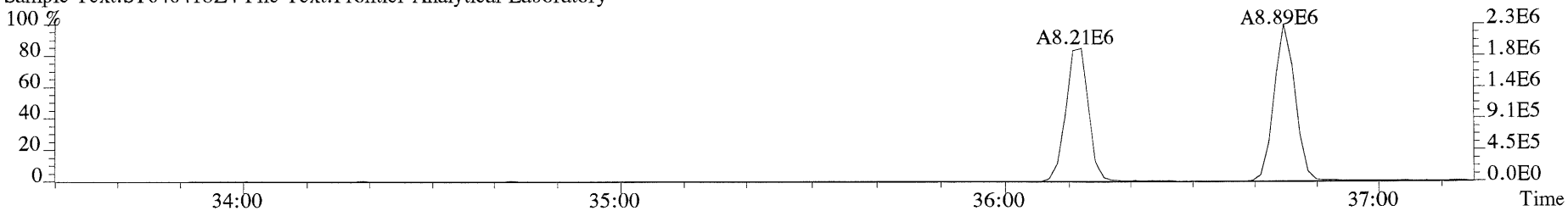
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



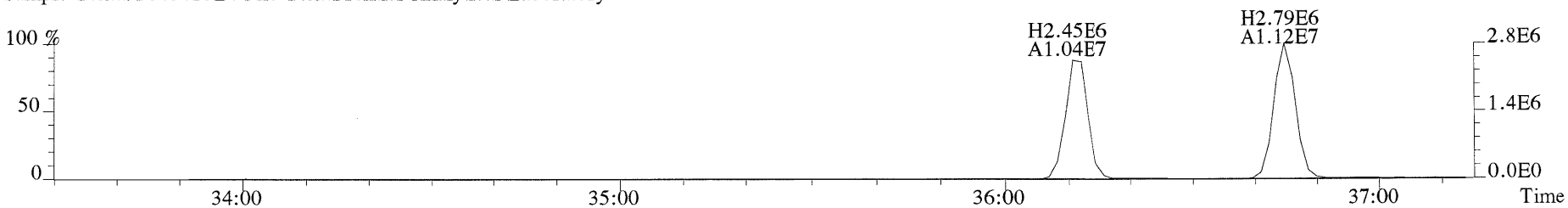
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



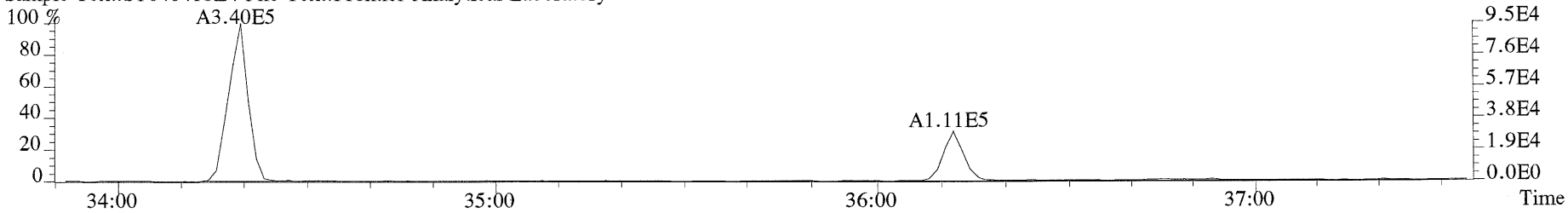
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



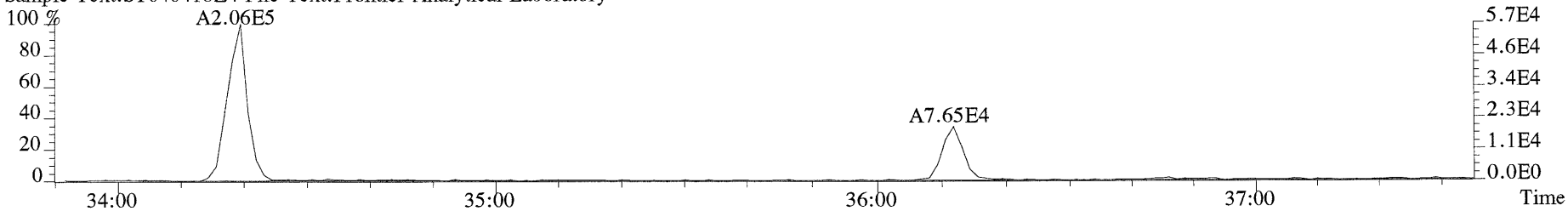
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



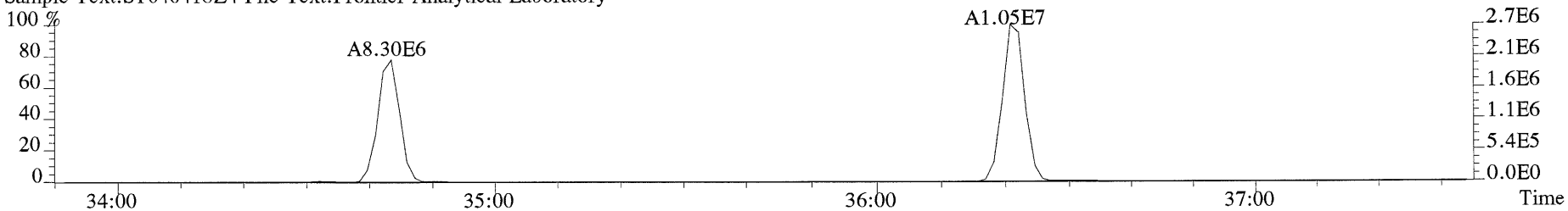
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



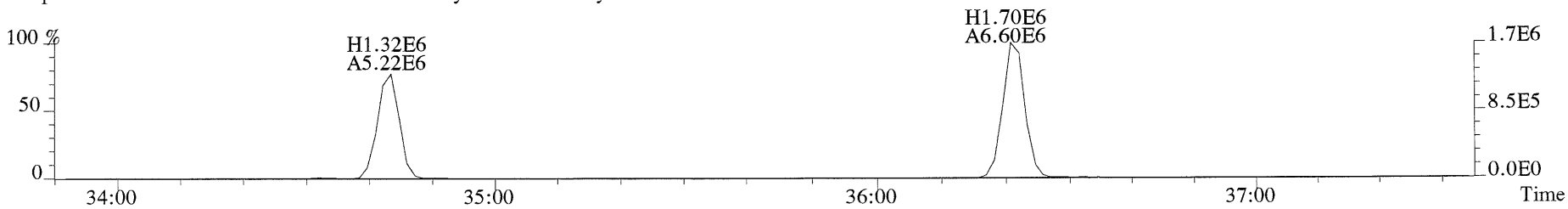
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



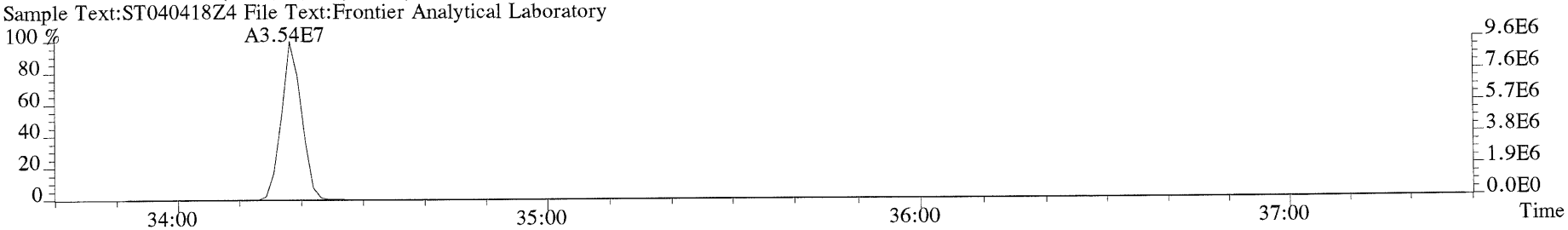
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



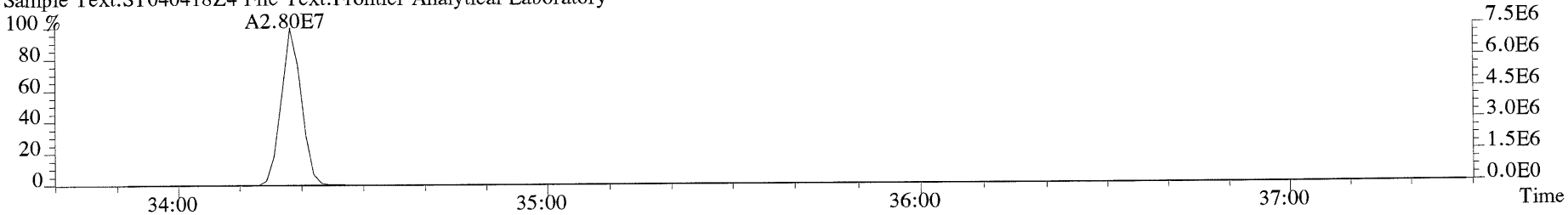
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



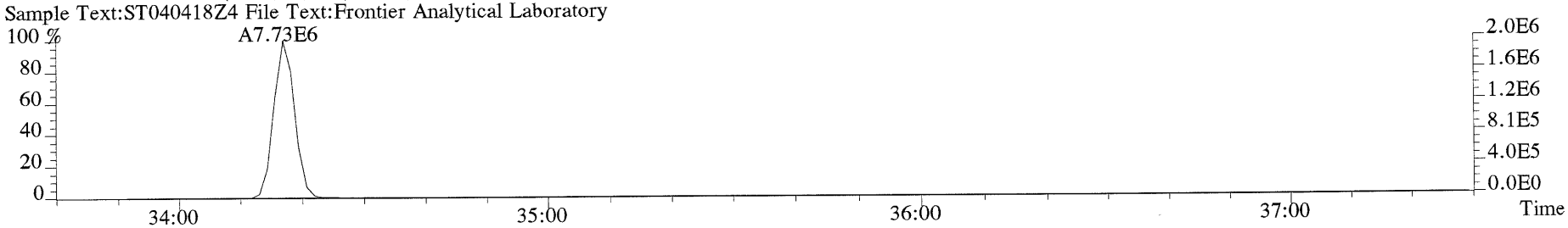
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



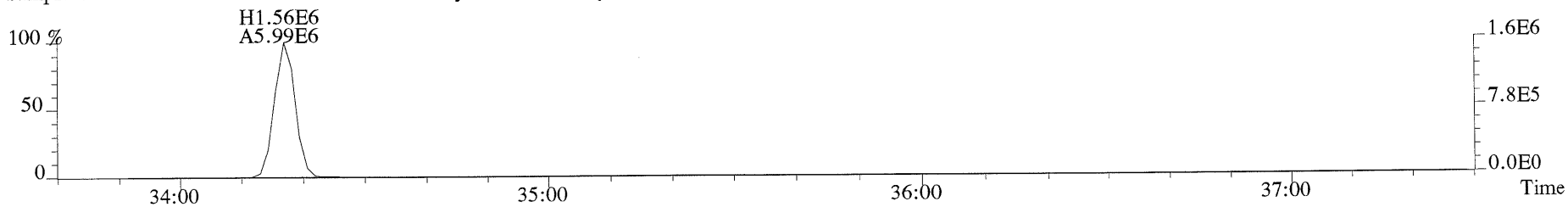
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



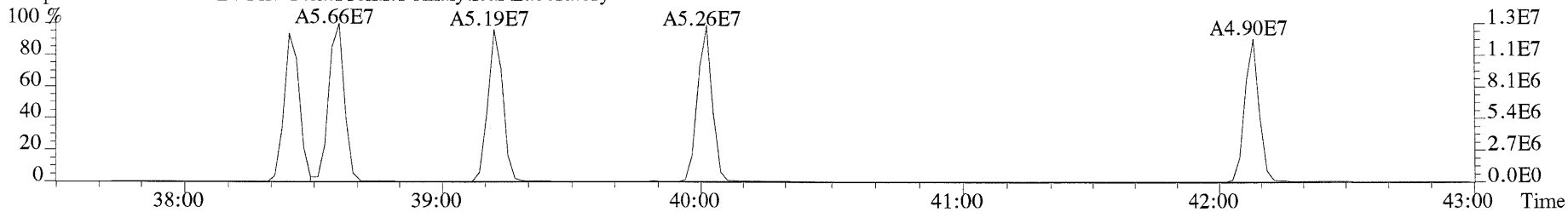
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



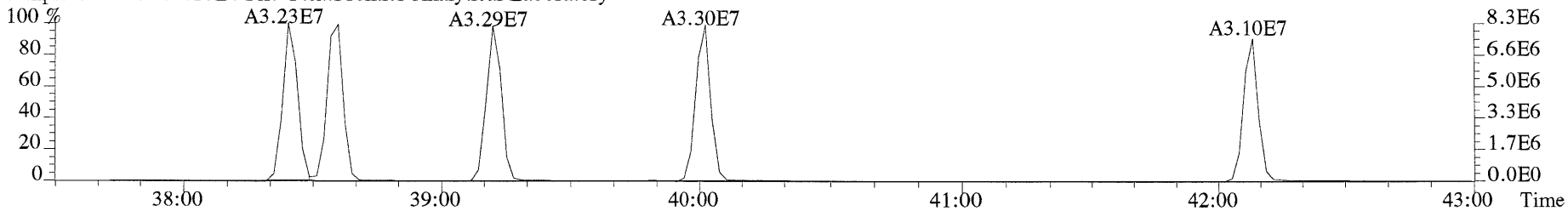
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



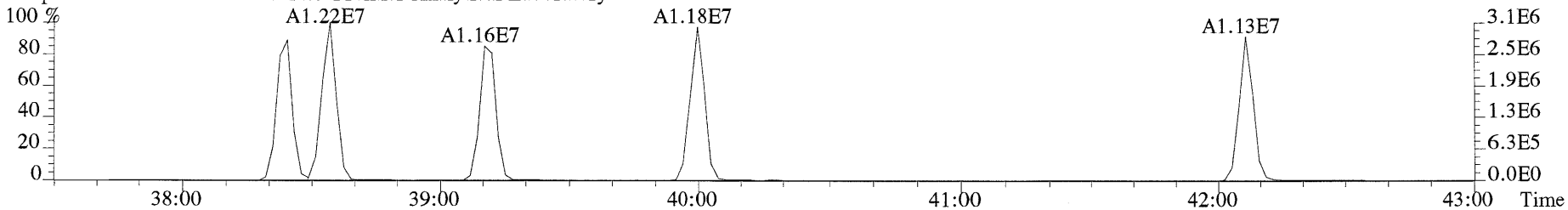
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



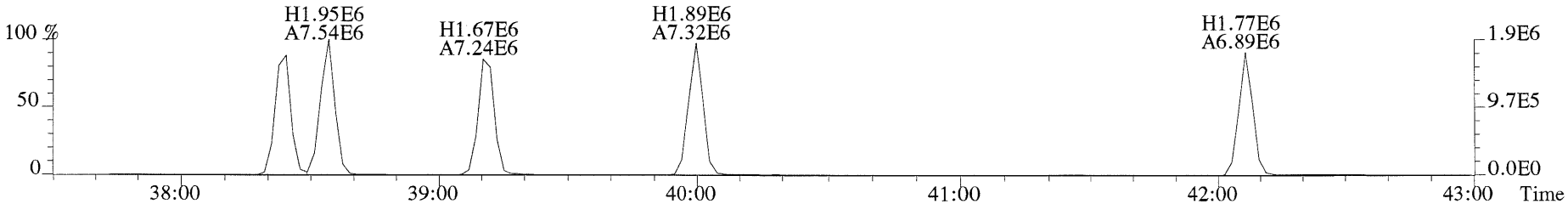
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



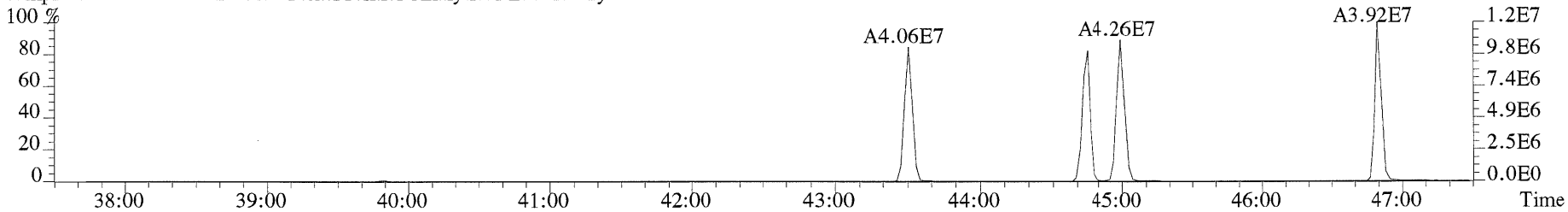
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



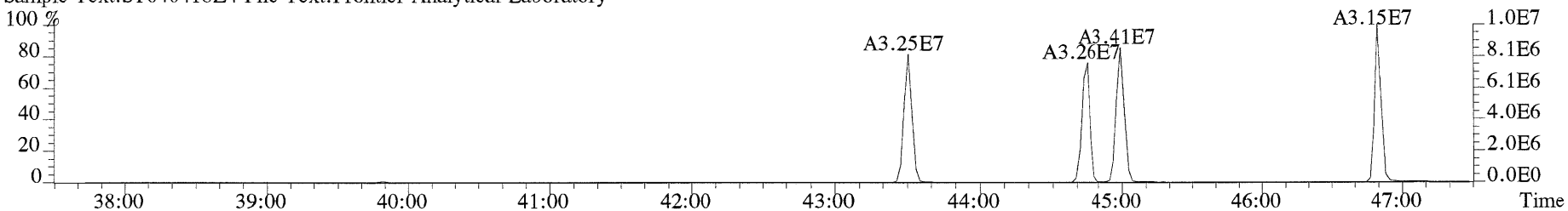
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



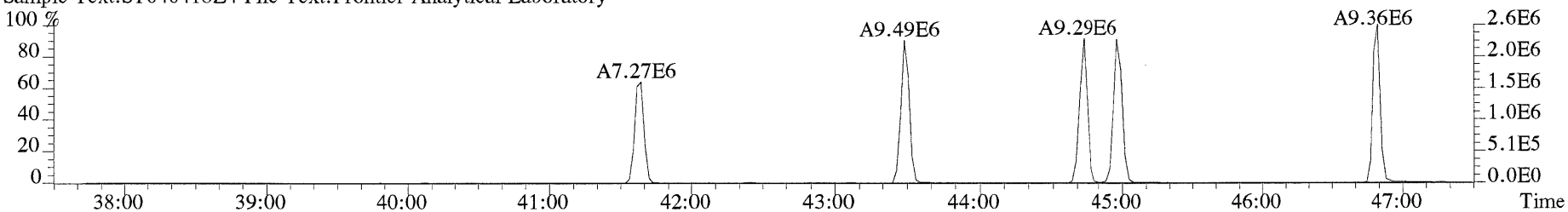
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



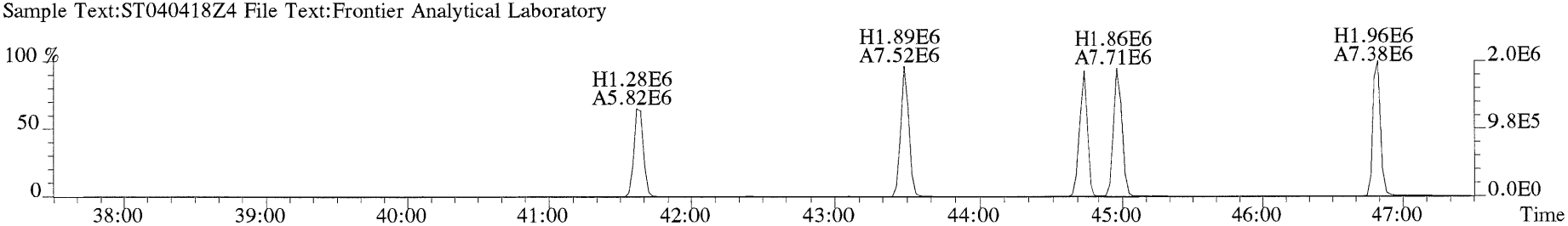
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



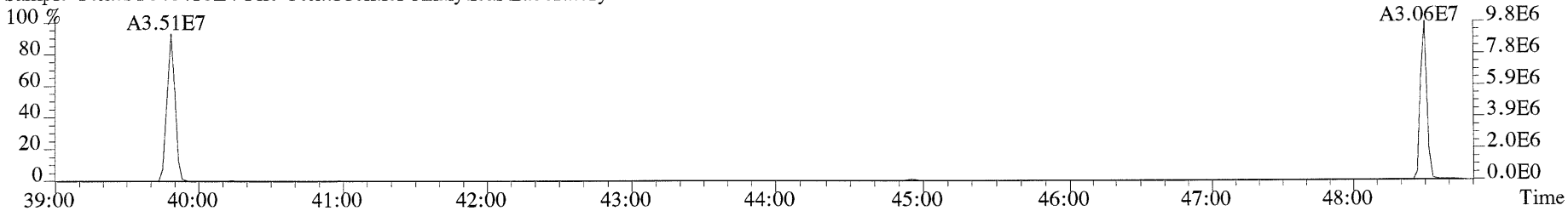
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



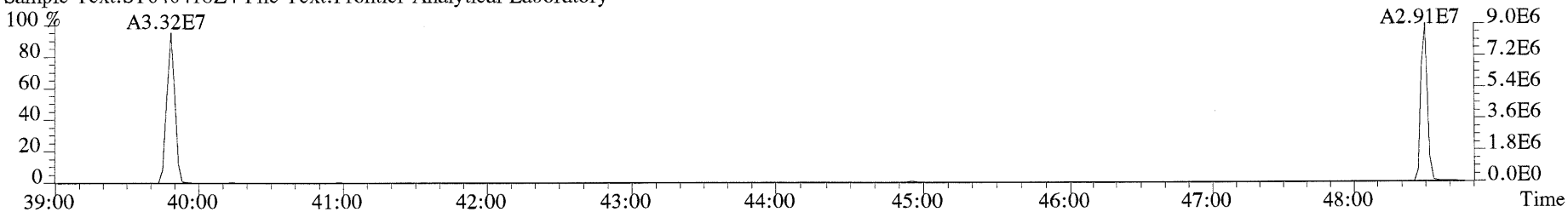
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



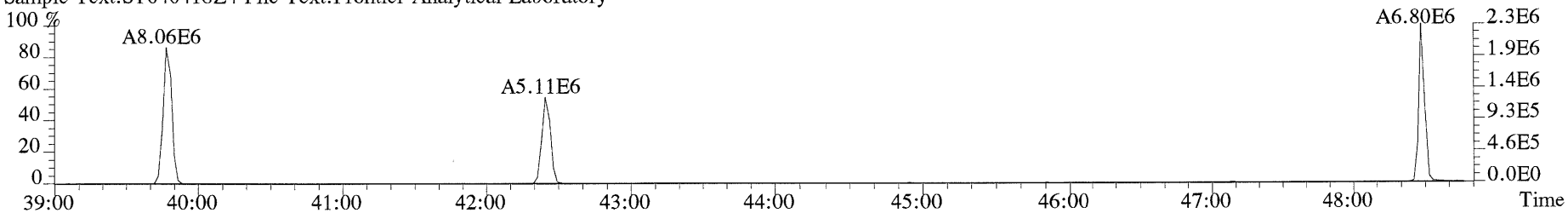
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



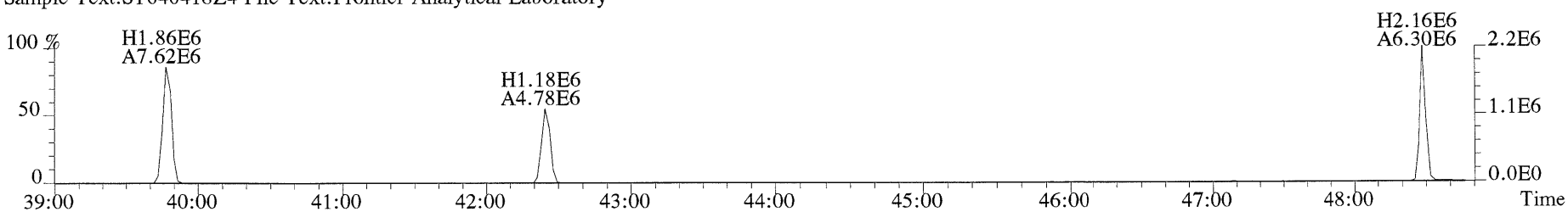
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



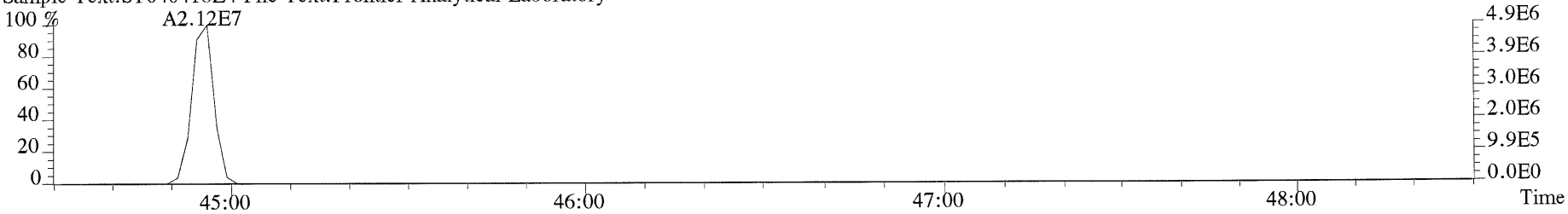
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



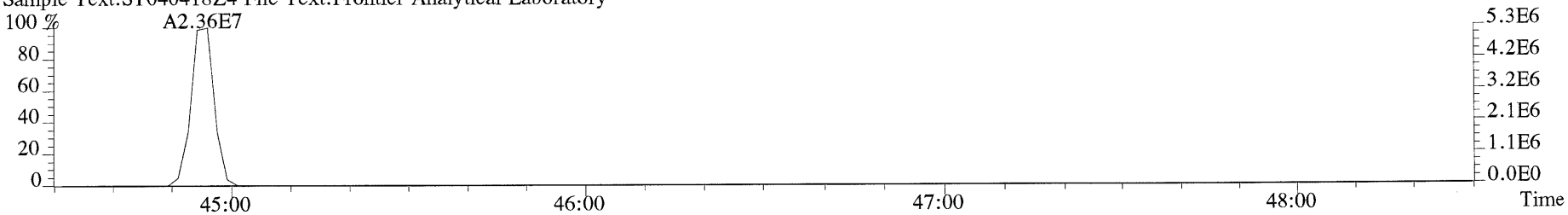
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



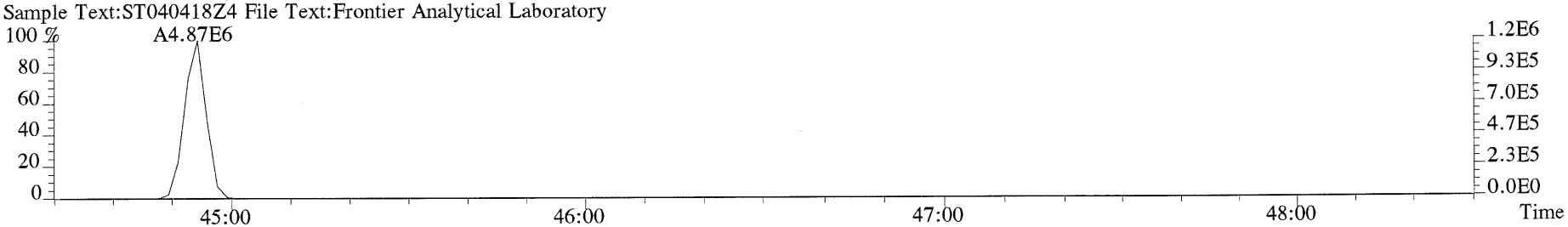
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



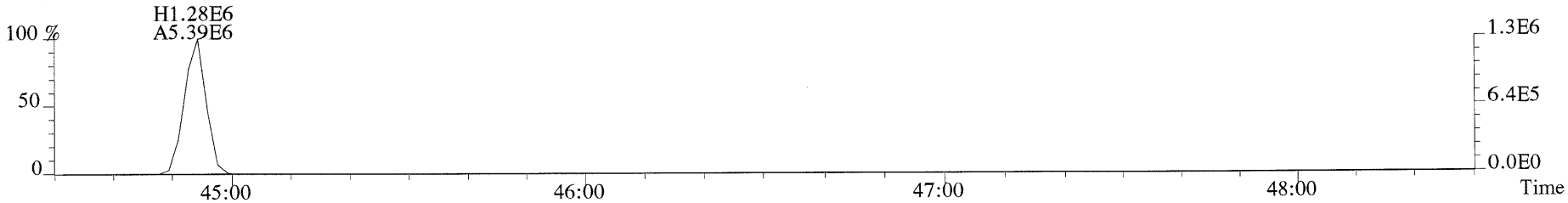
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



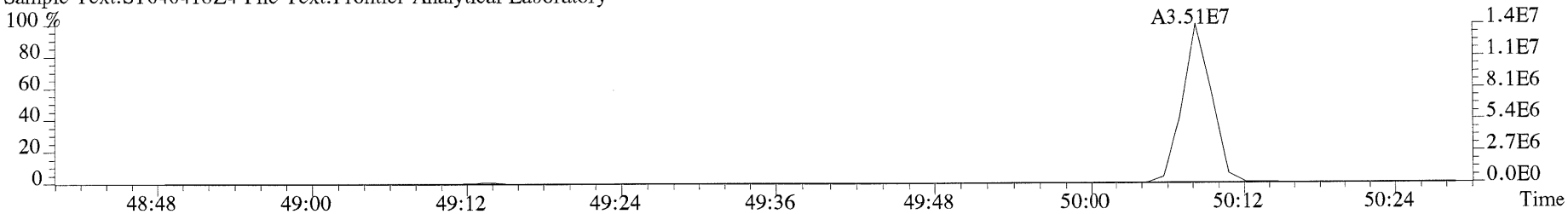
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



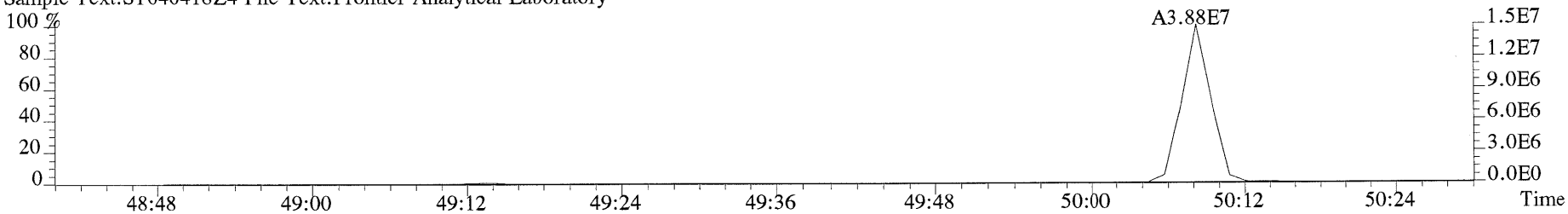
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



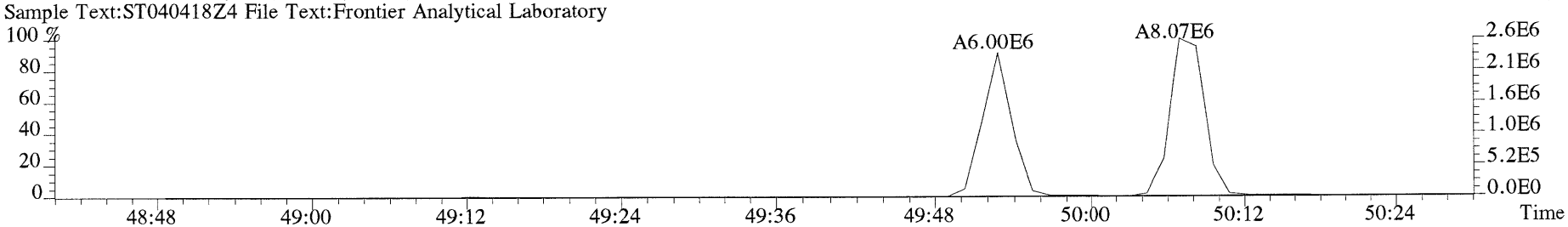
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



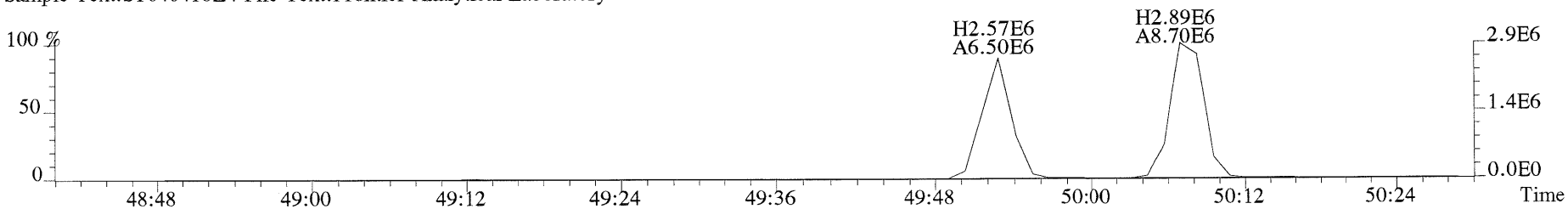
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



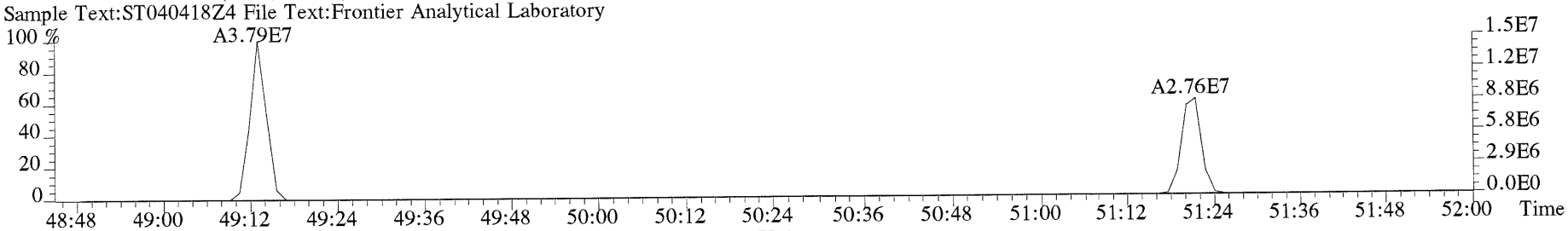
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



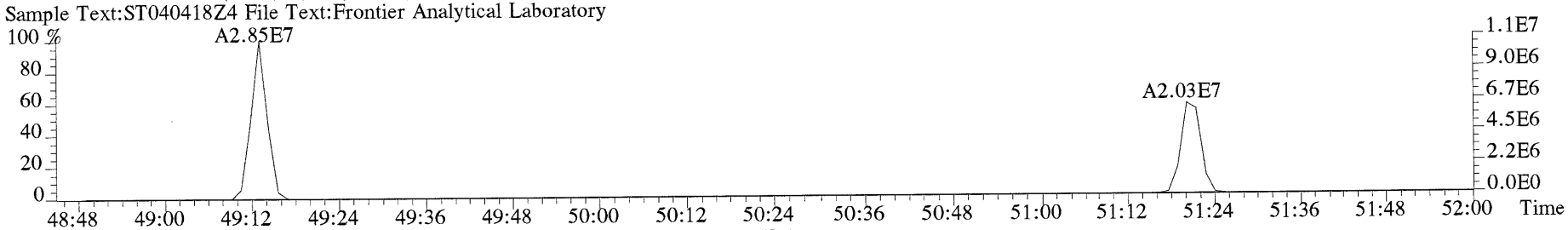
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



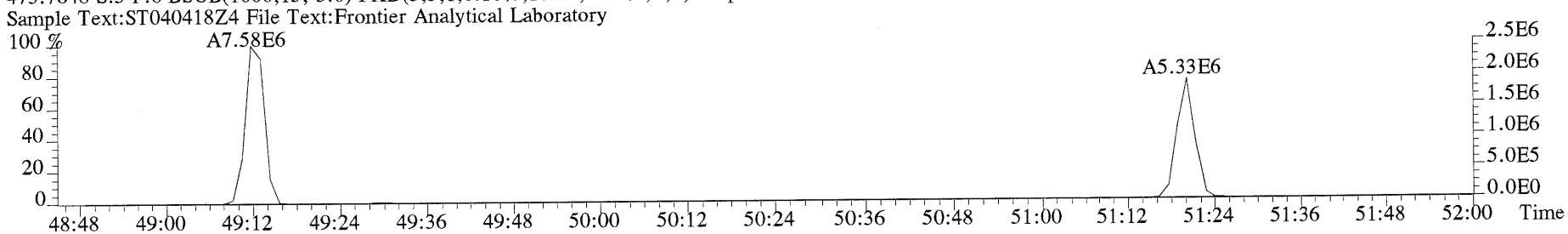
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



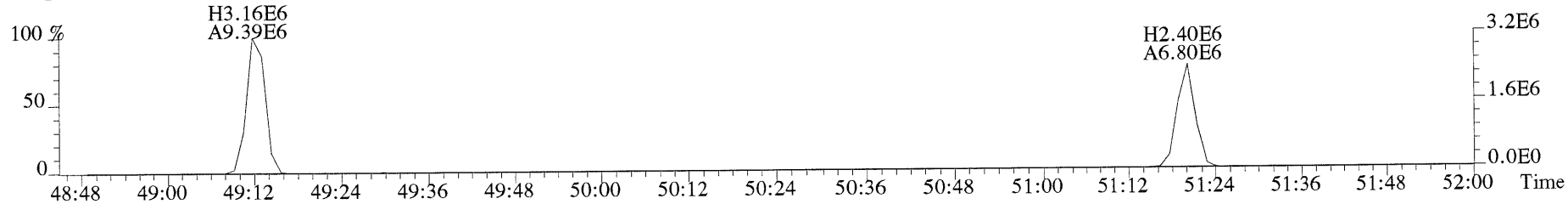
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



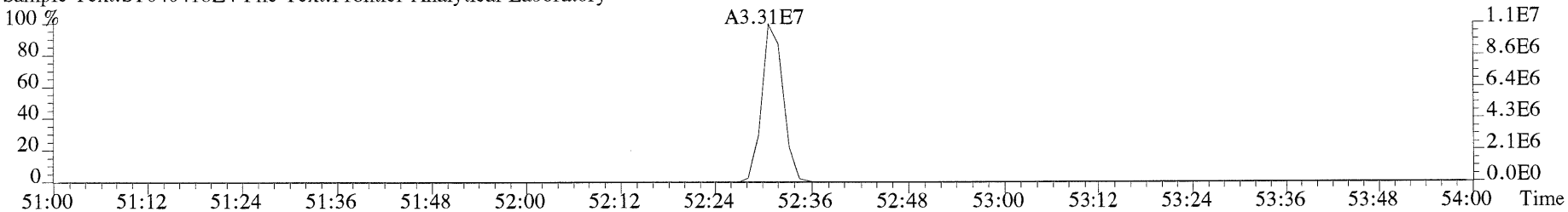
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



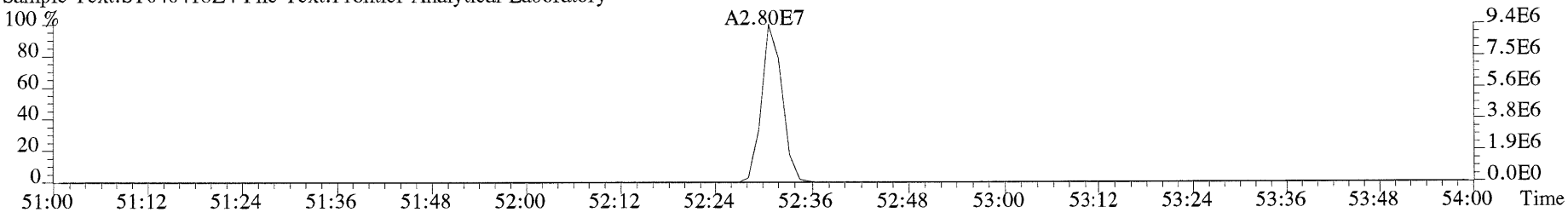
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



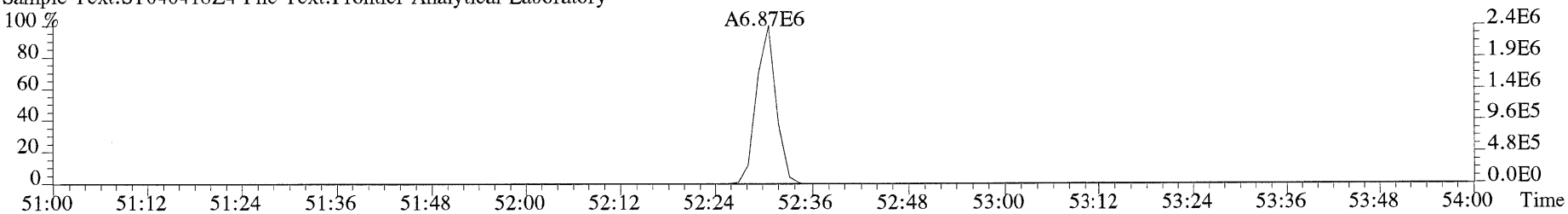
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



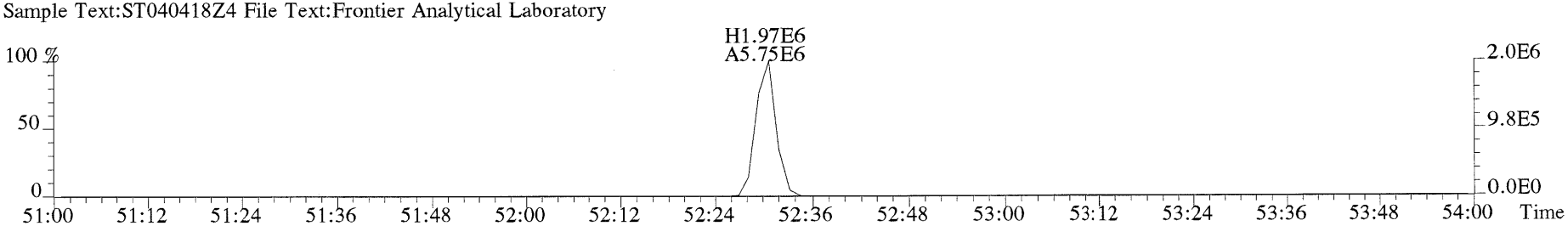
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



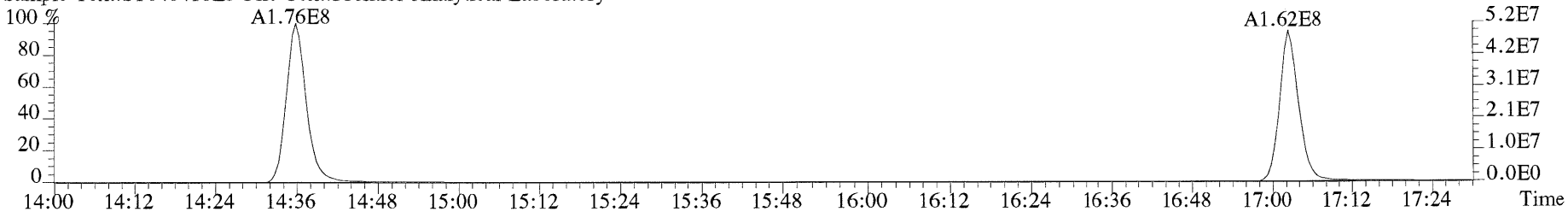
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



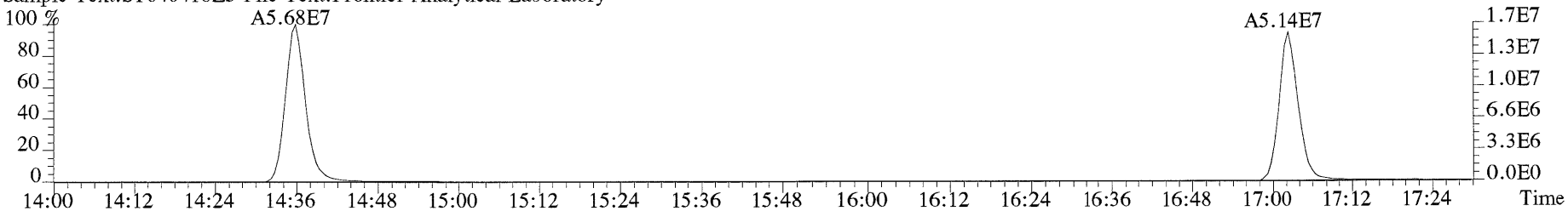
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



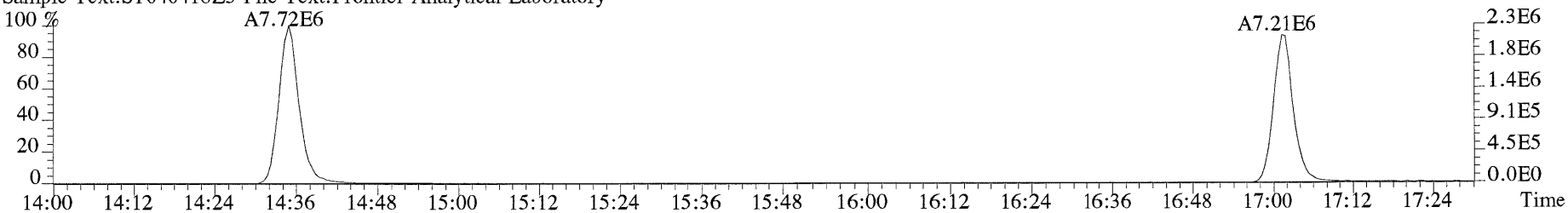
File:04APR18Z #1-783 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



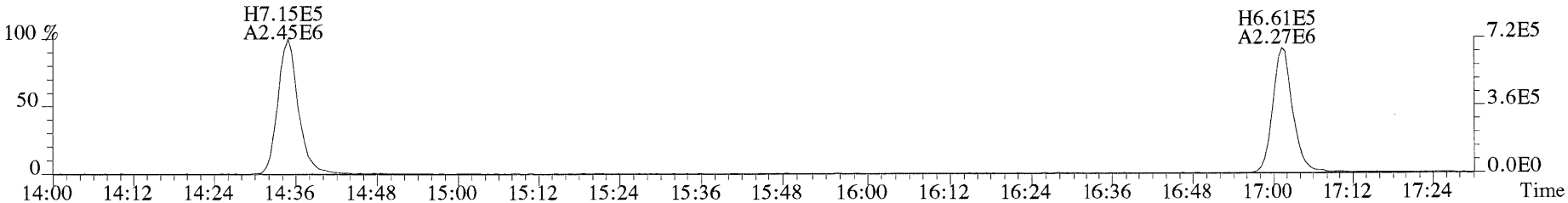
File:04APR18Z #1-783 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



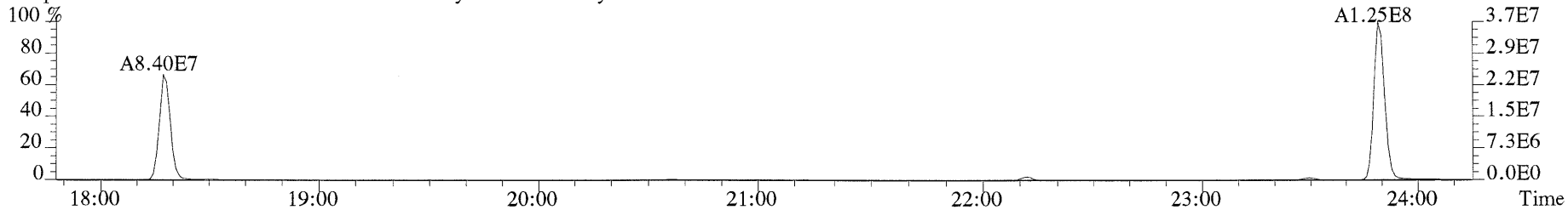
File:04APR18Z #1-783 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



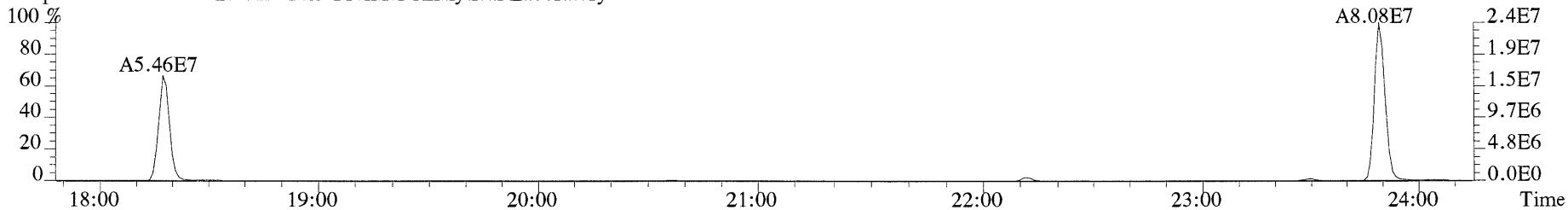
File:04APR18Z #1-783 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



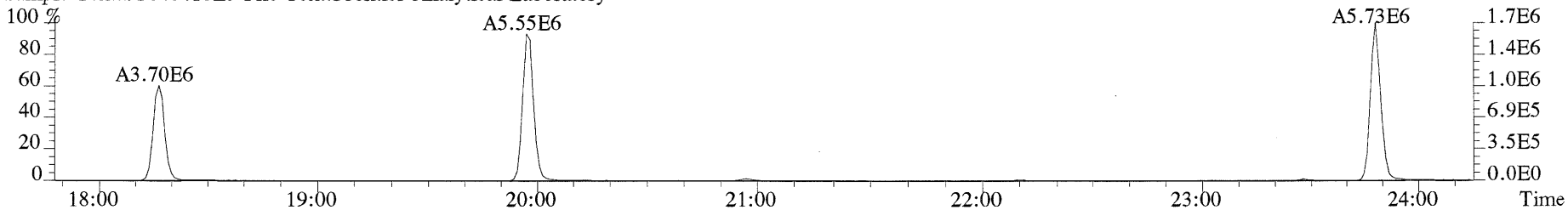
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



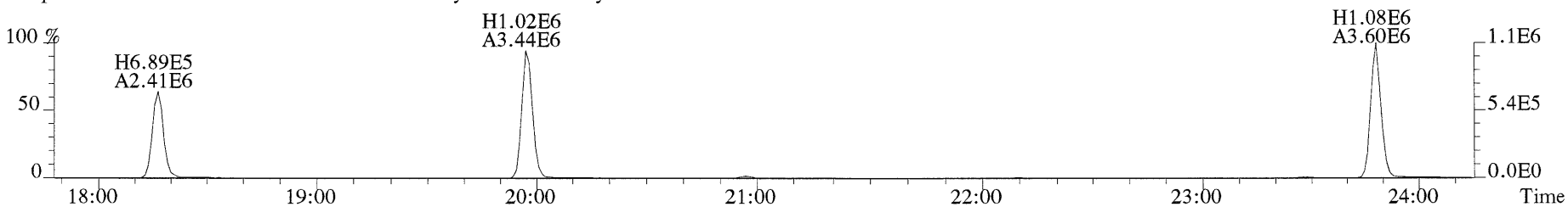
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



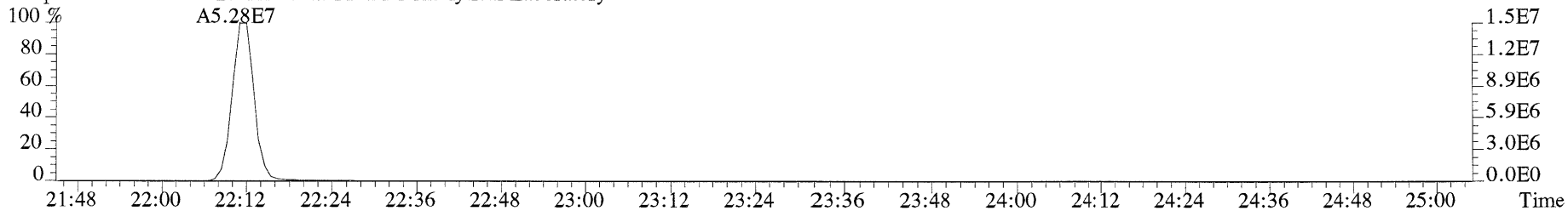
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



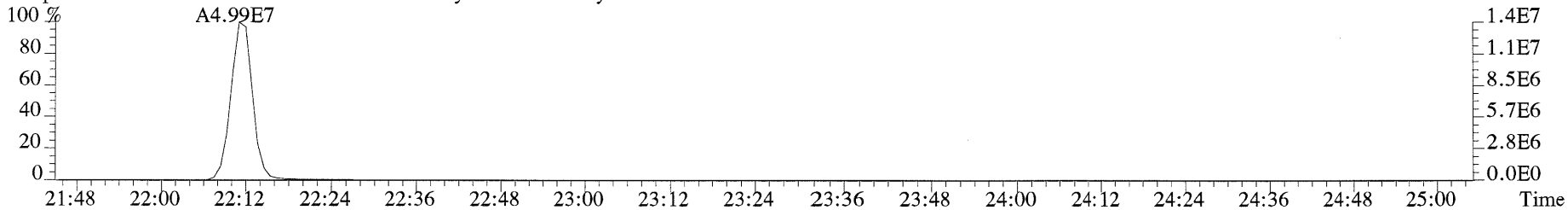
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



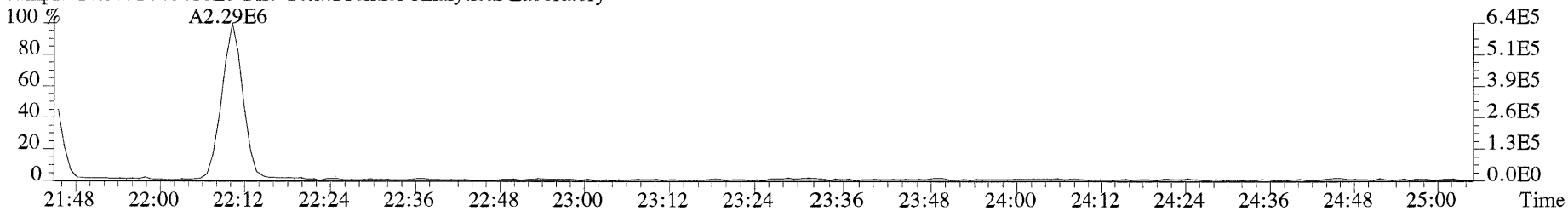
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



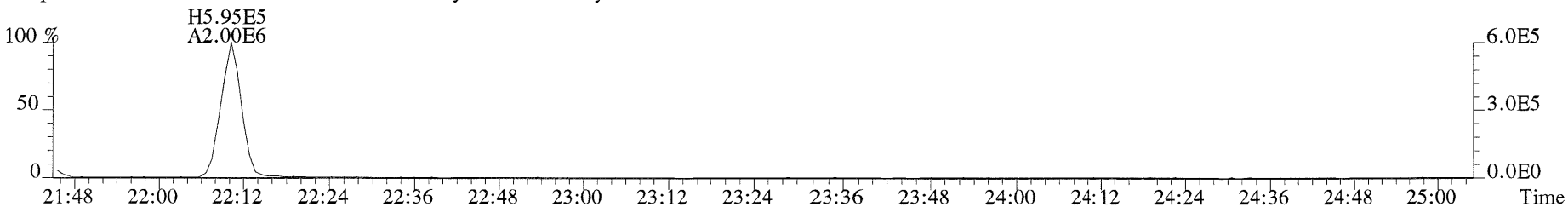
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



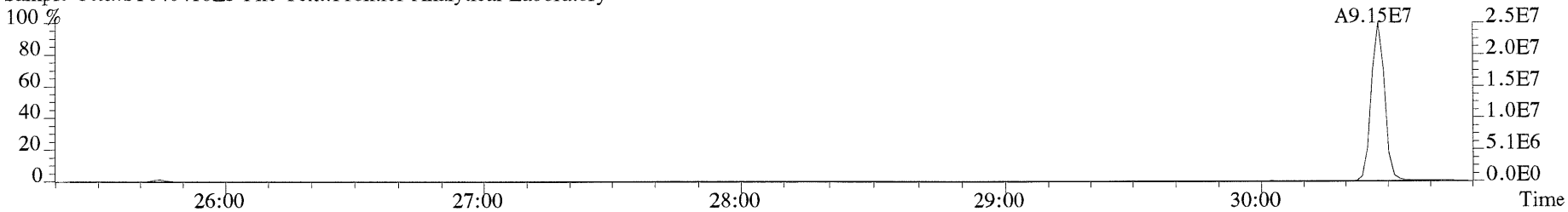
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



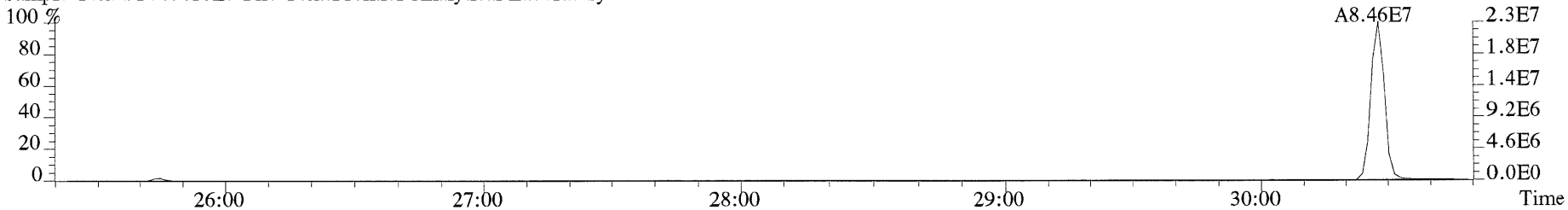
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



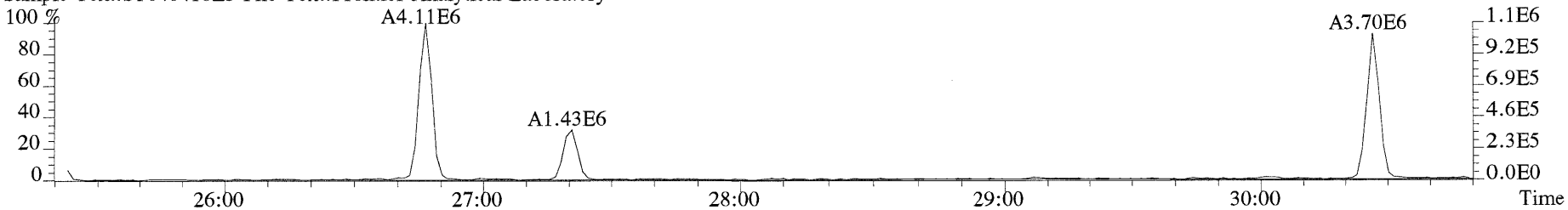
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



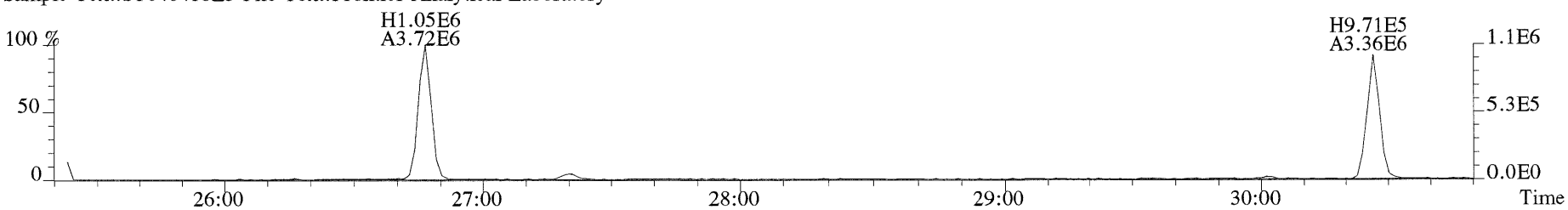
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



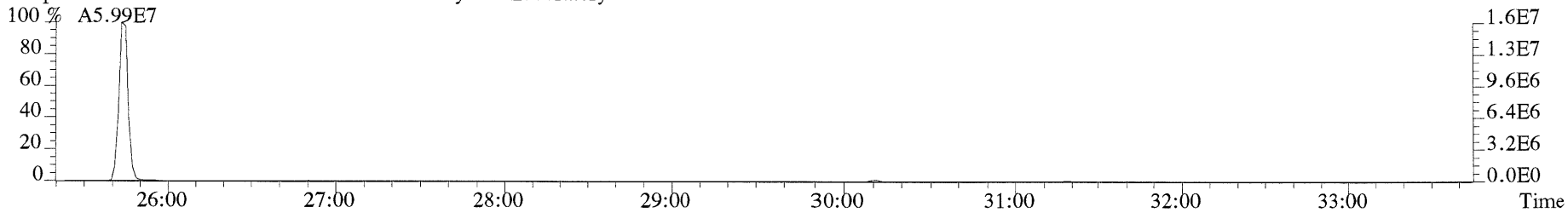
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



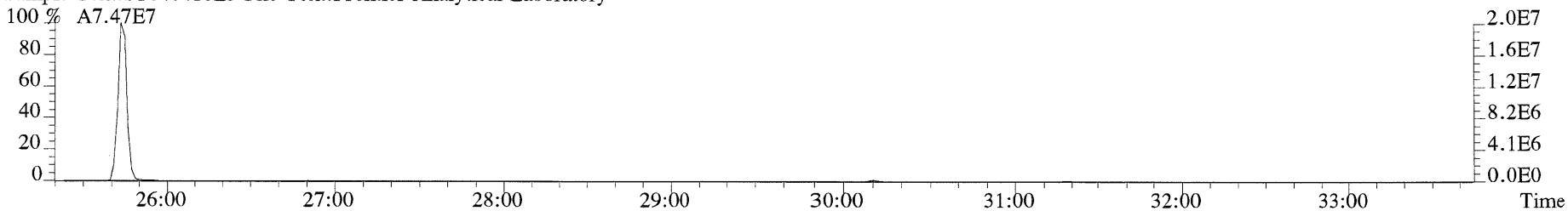
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



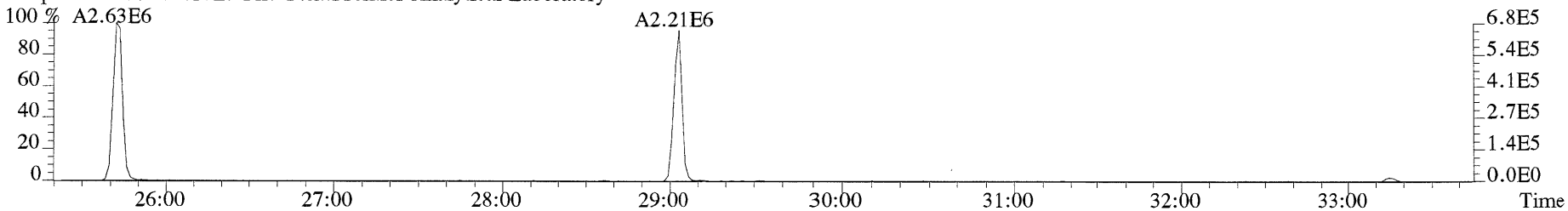
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



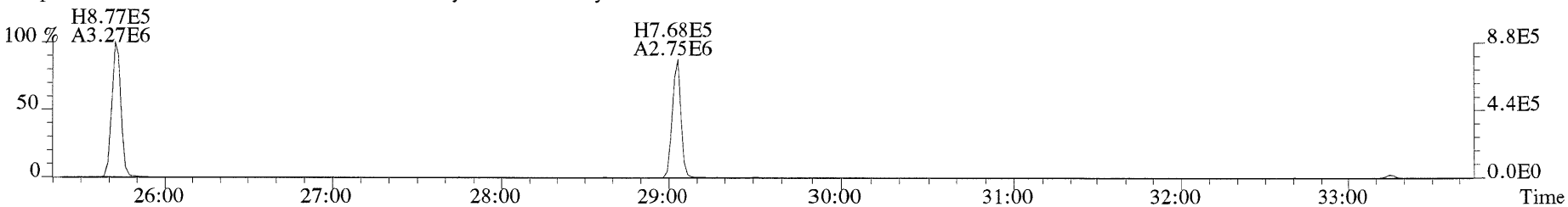
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



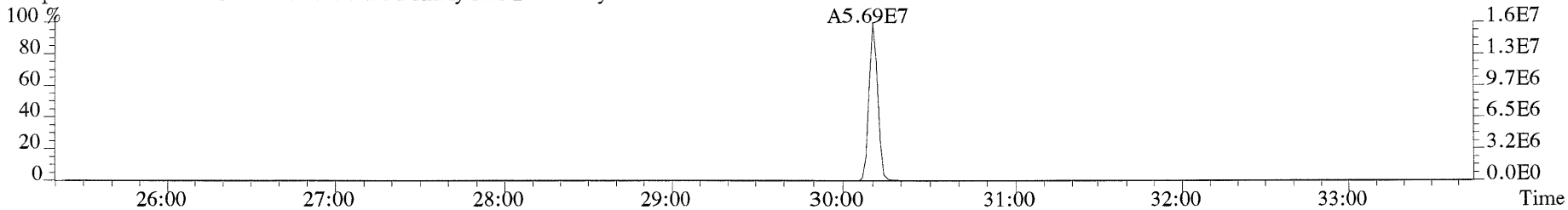
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



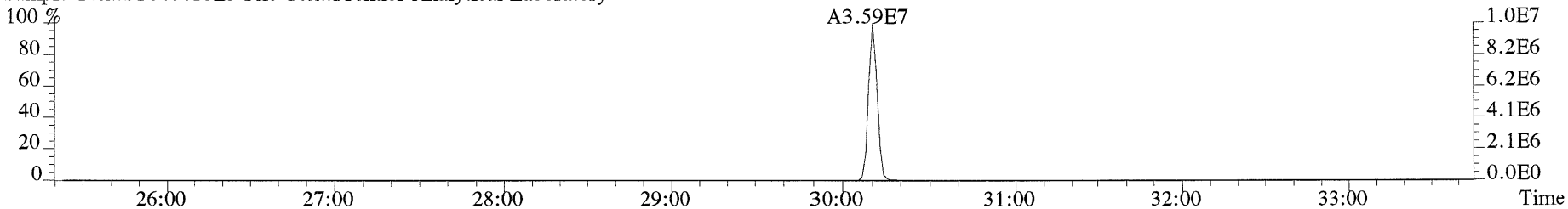
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



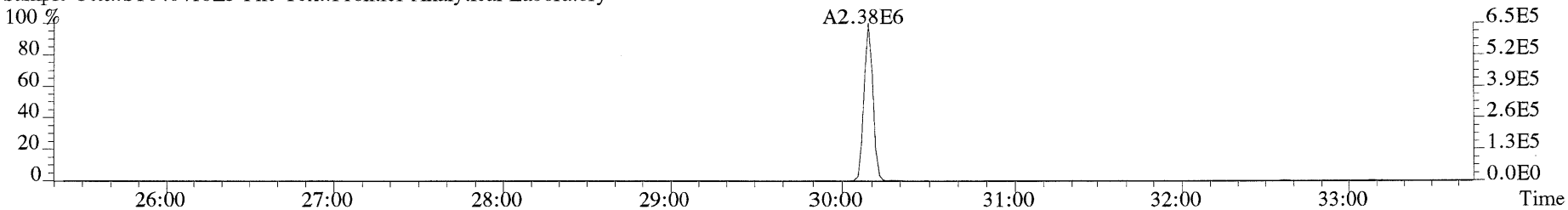
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



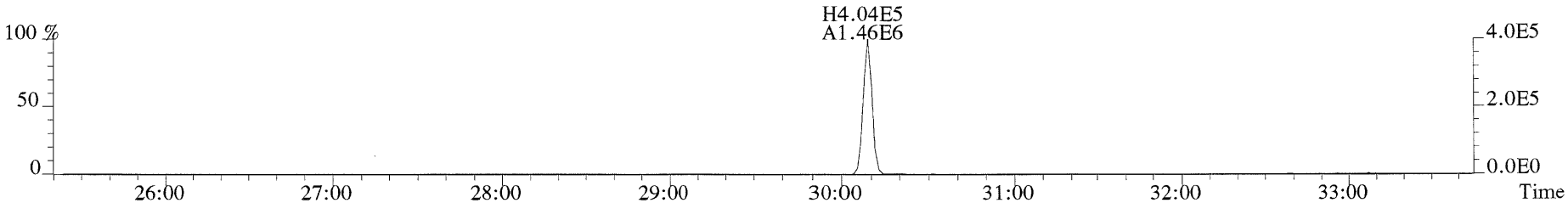
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



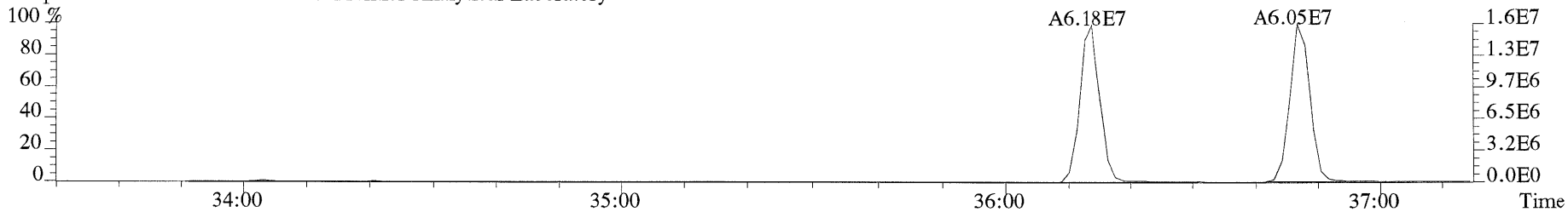
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



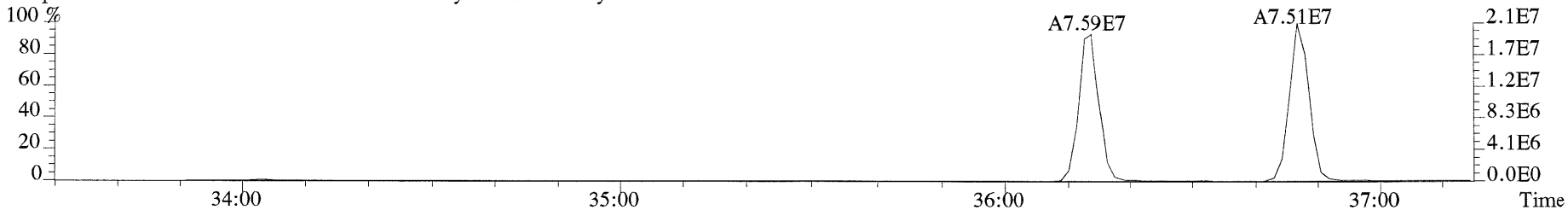
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



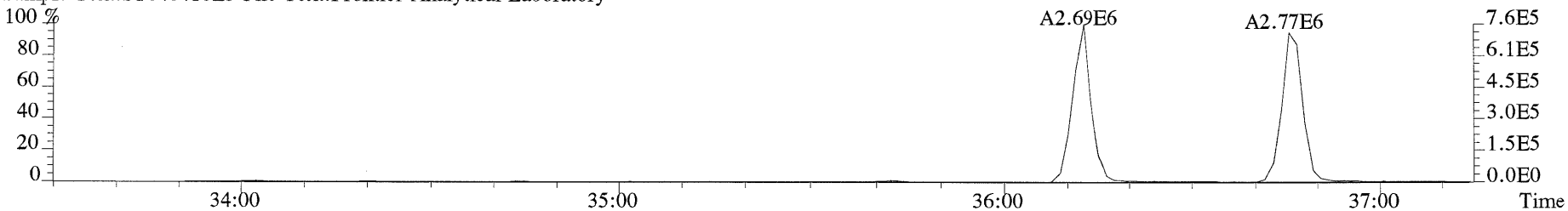
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



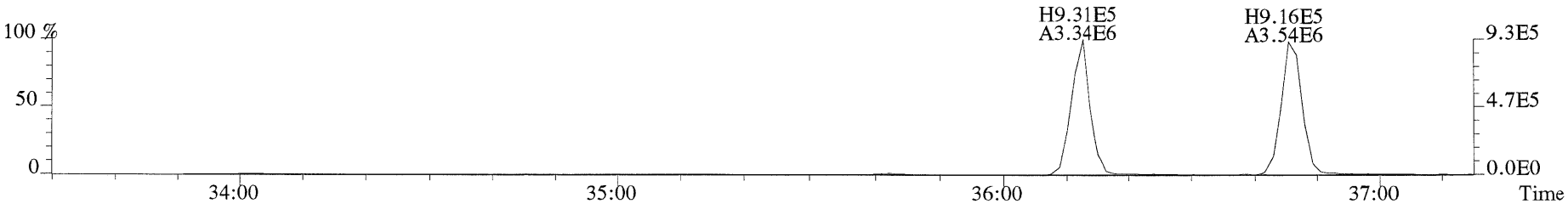
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



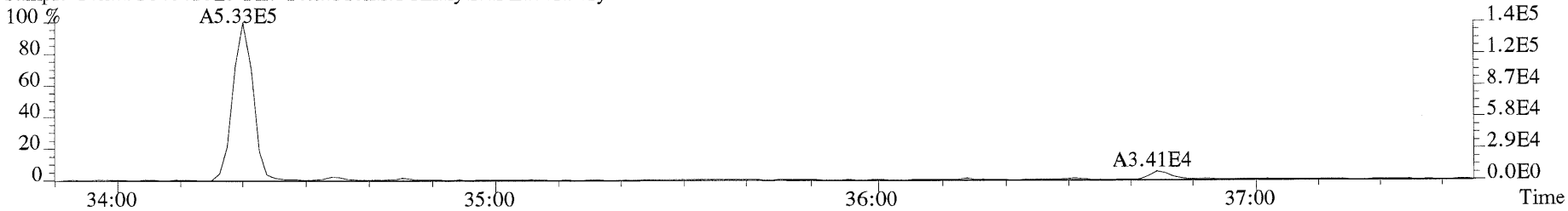
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



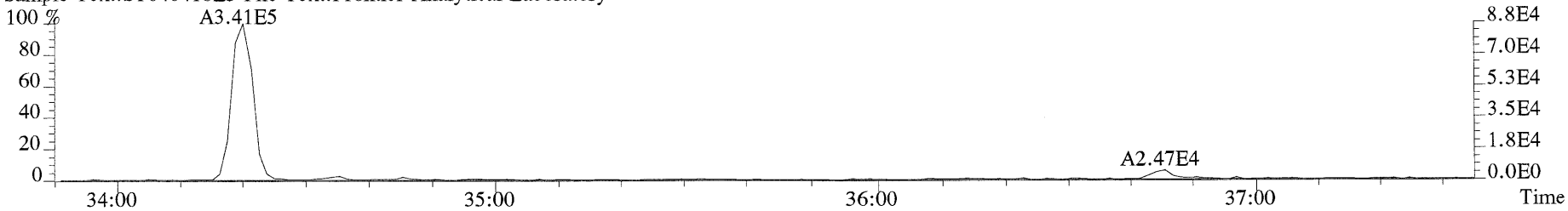
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



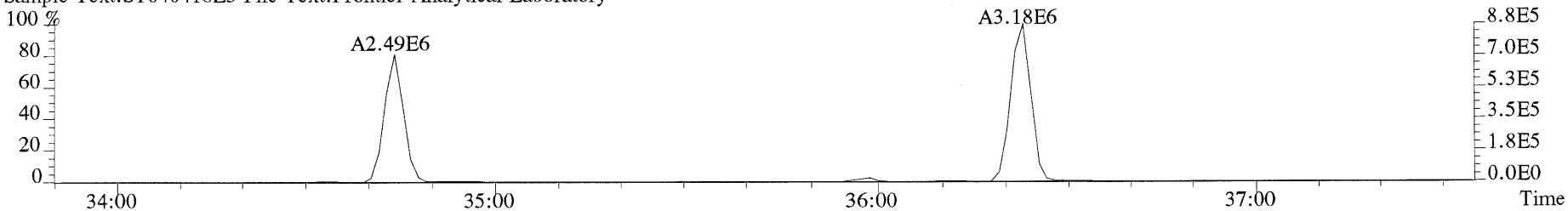
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



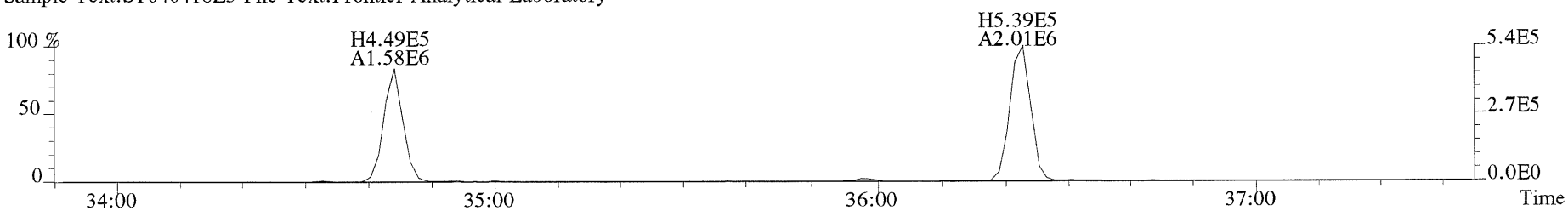
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



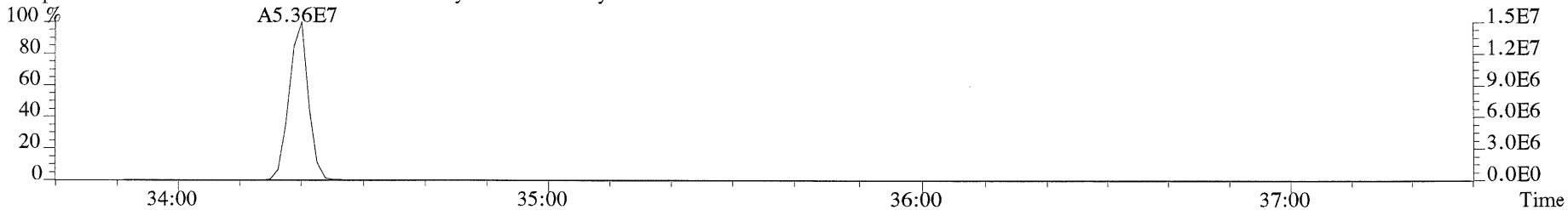
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



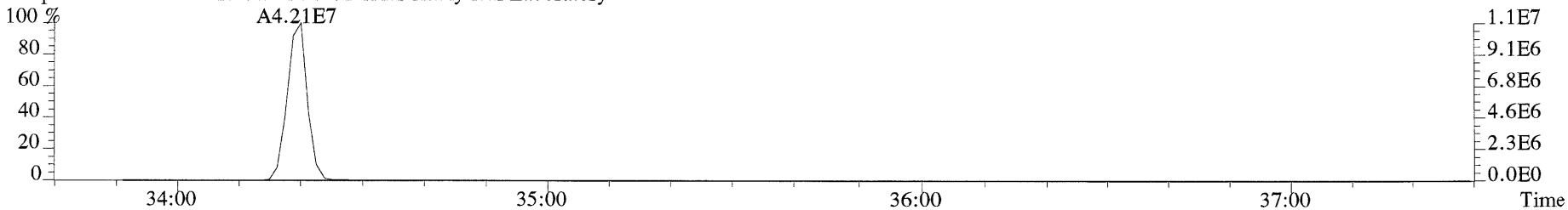
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



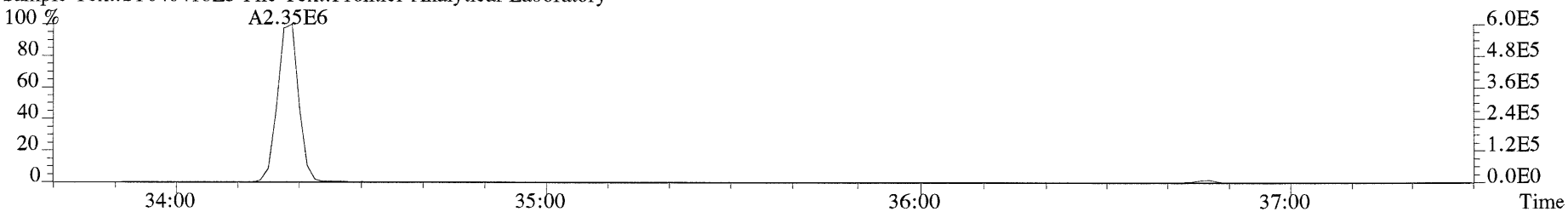
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



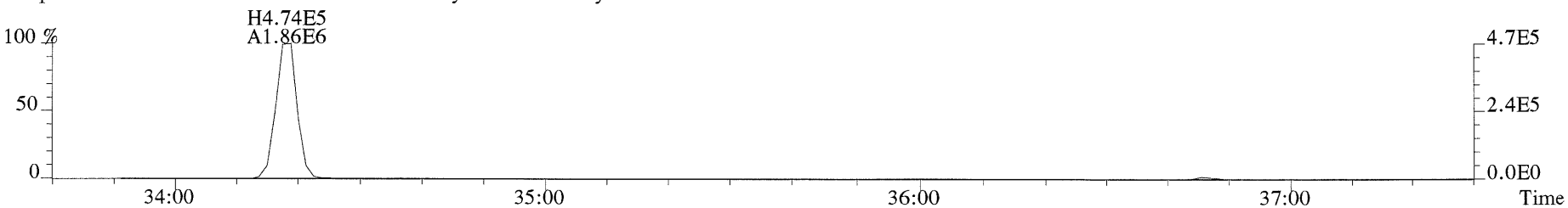
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



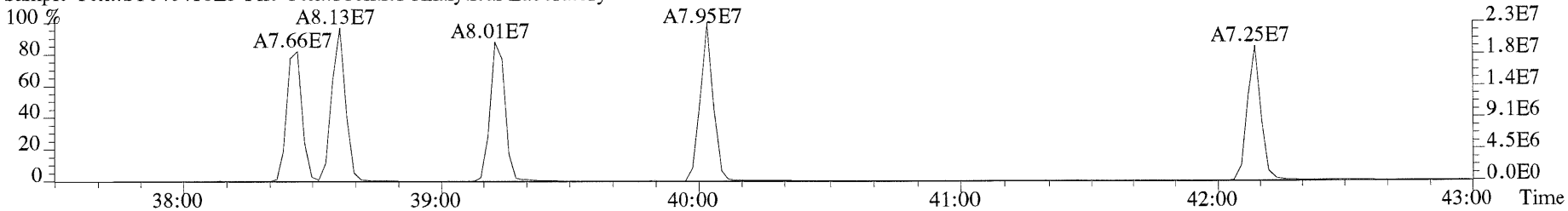
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



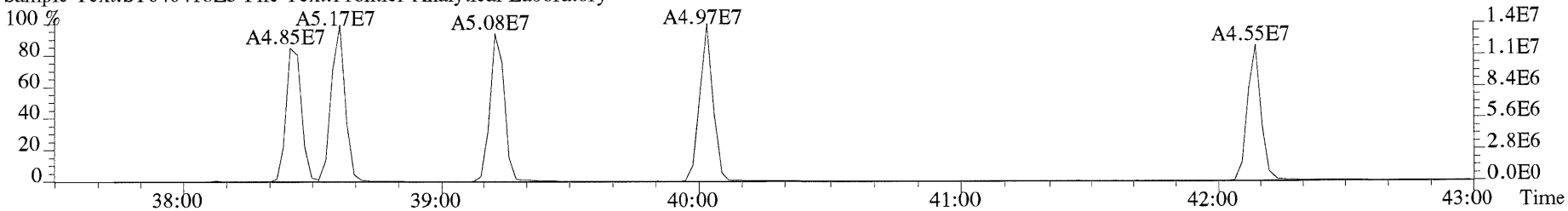
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



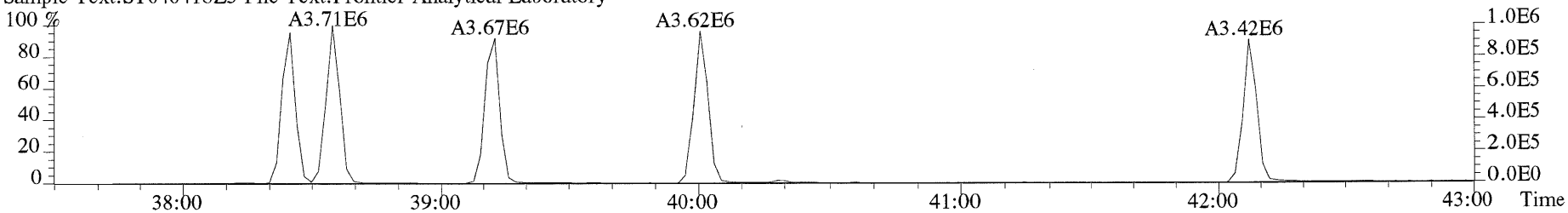
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



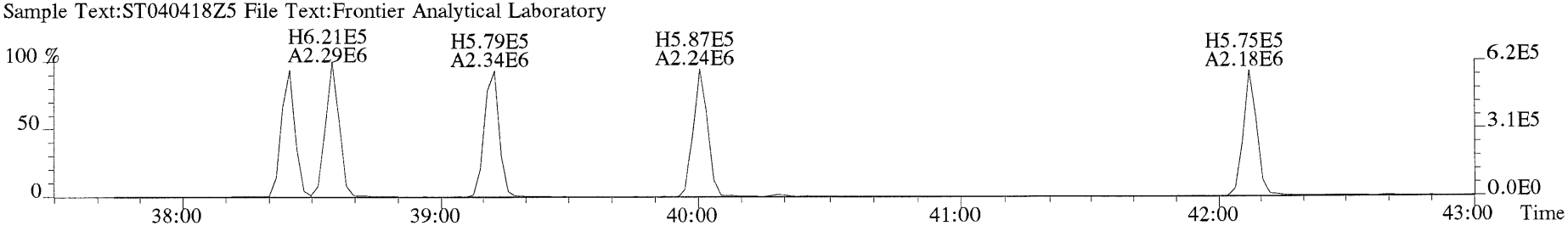
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



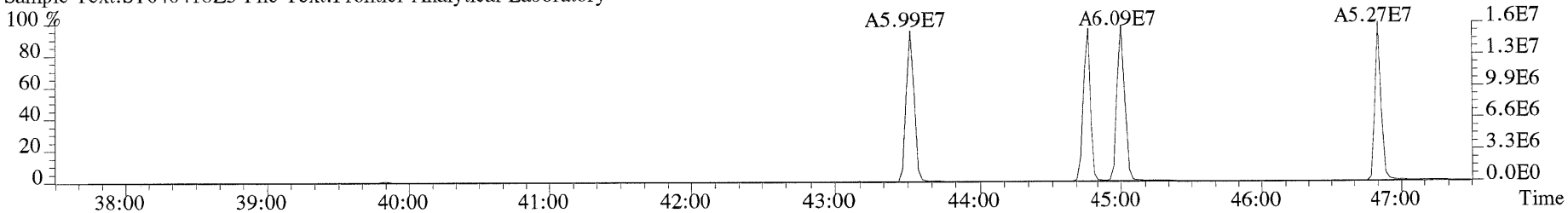
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



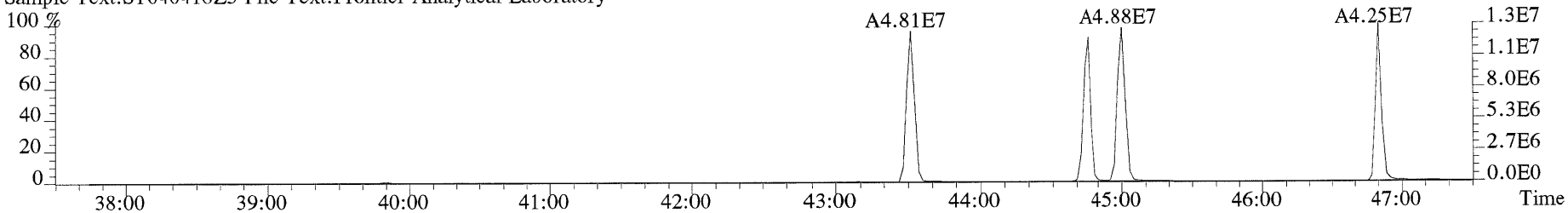
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



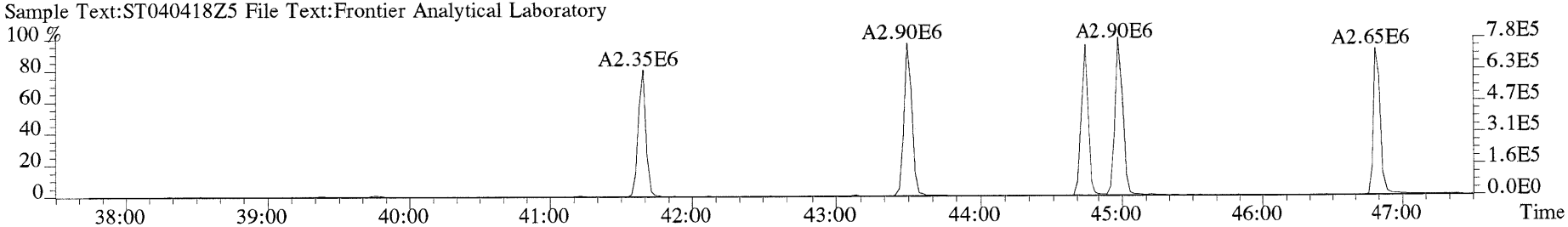
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



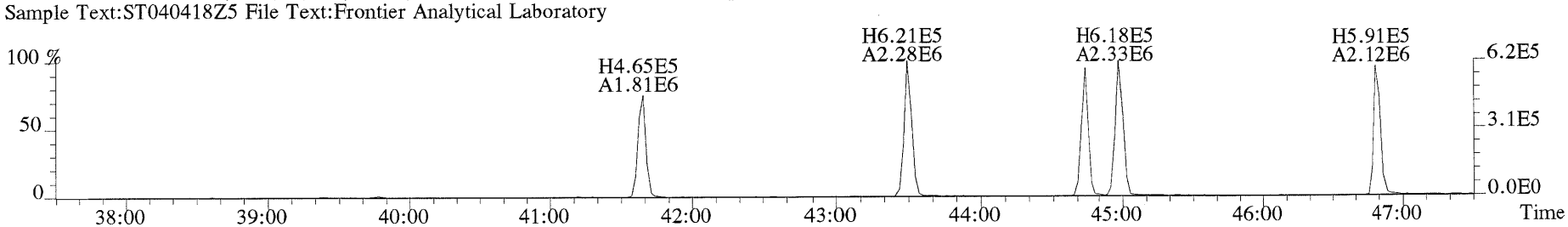
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



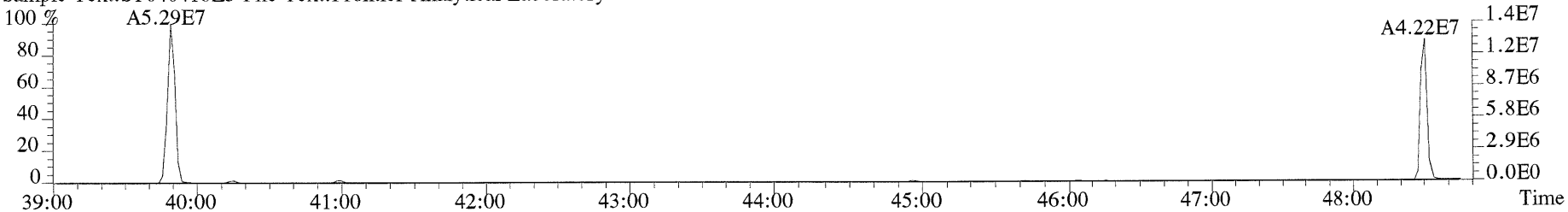
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



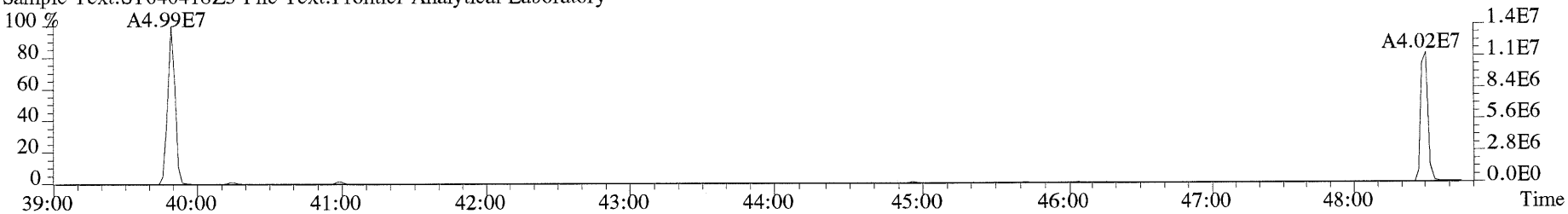
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



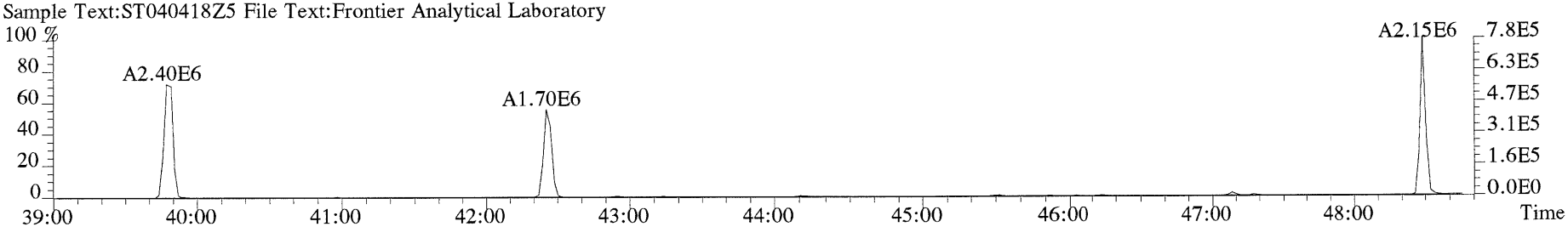
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



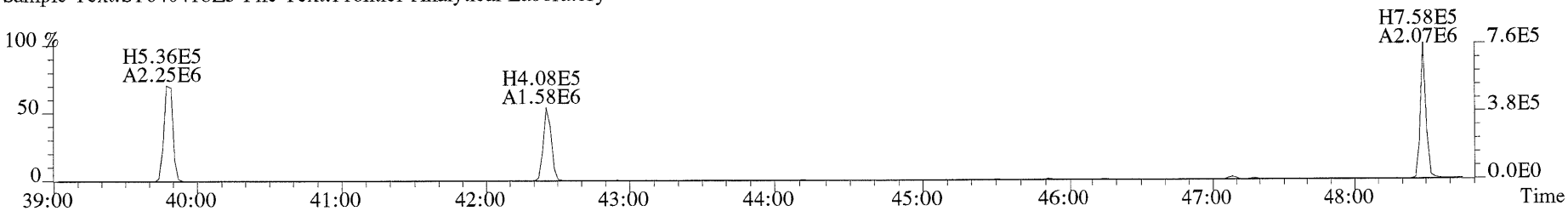
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



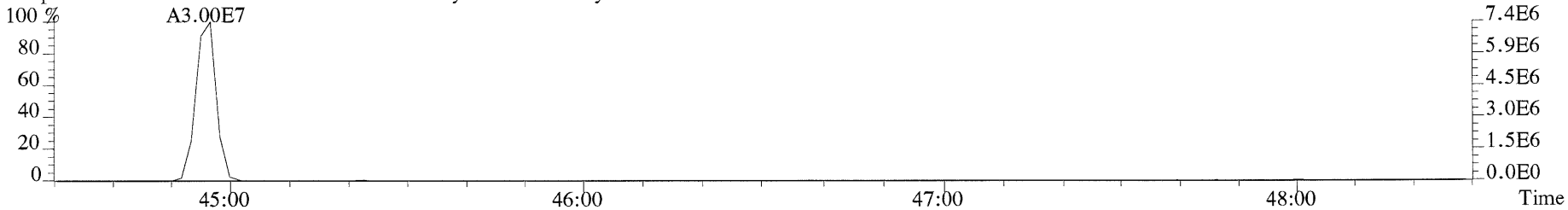
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



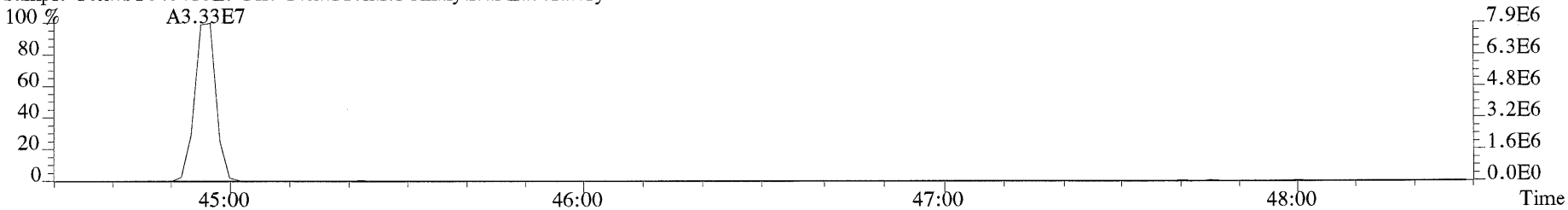
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



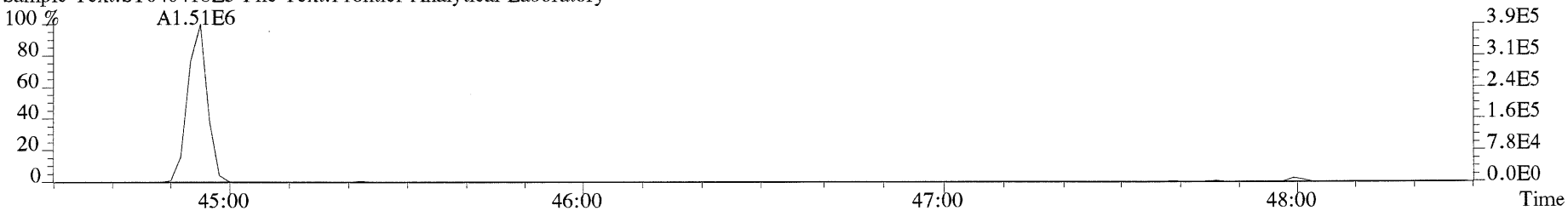
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



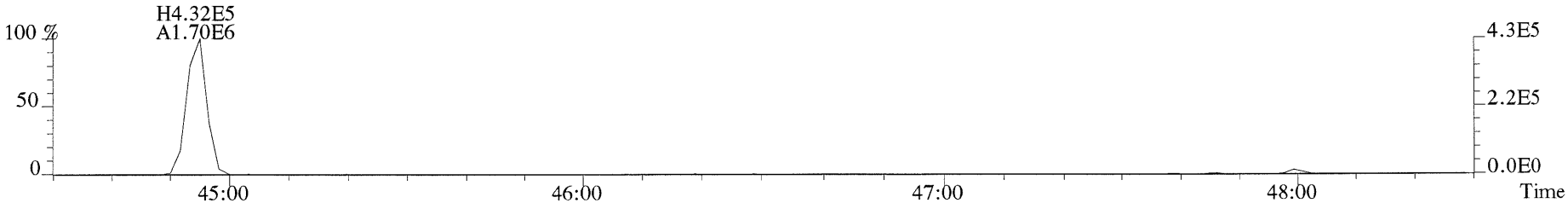
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



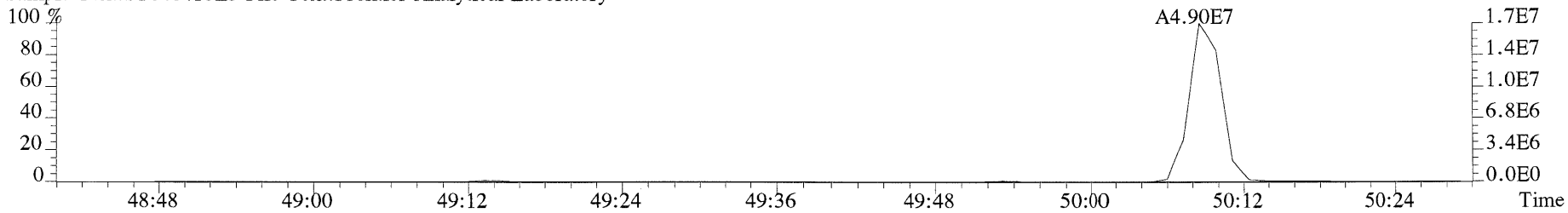
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



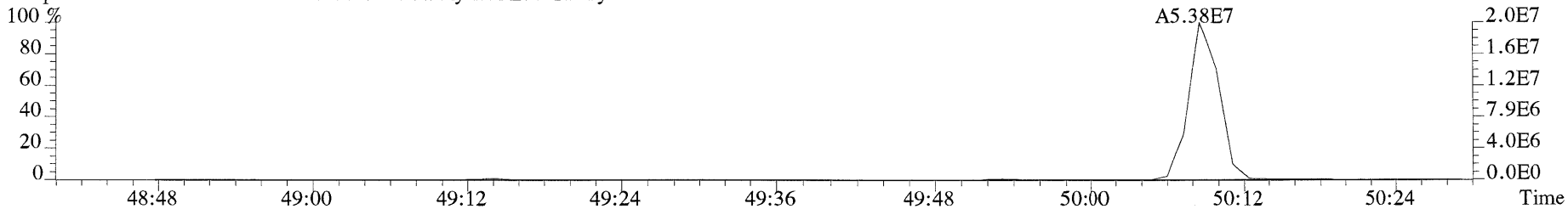
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



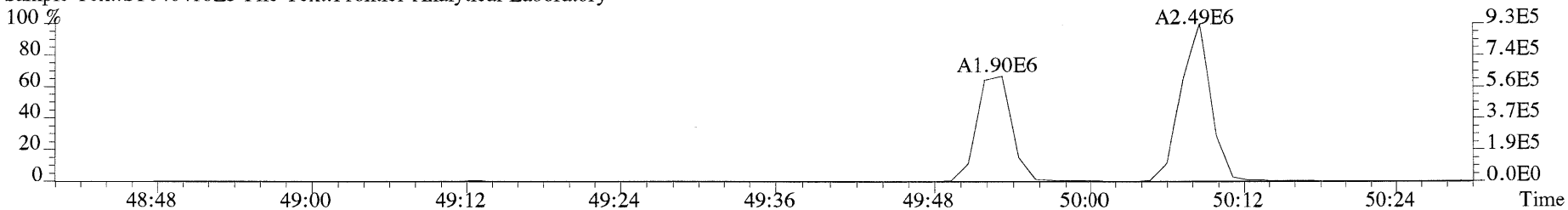
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



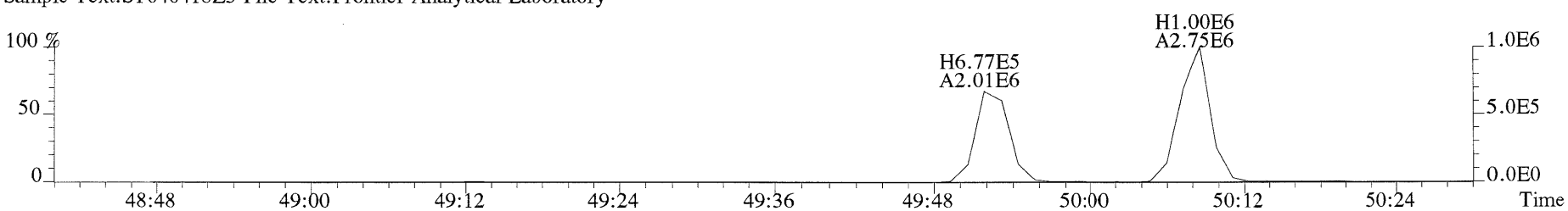
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



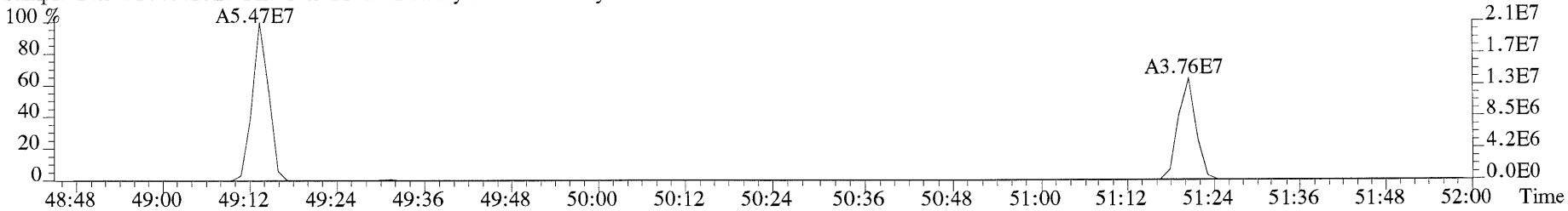
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



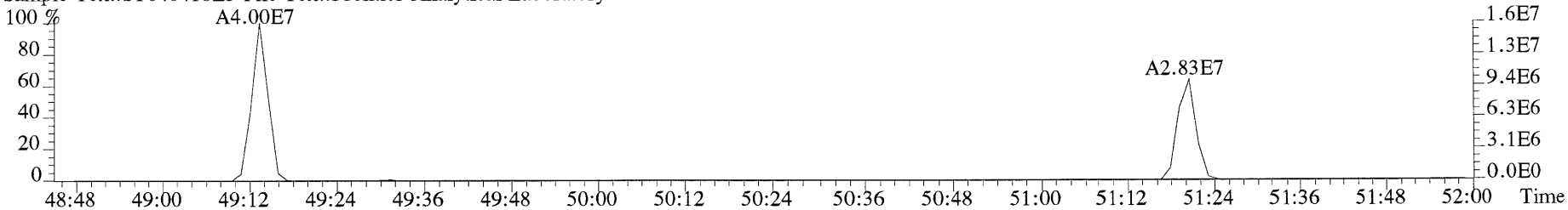
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



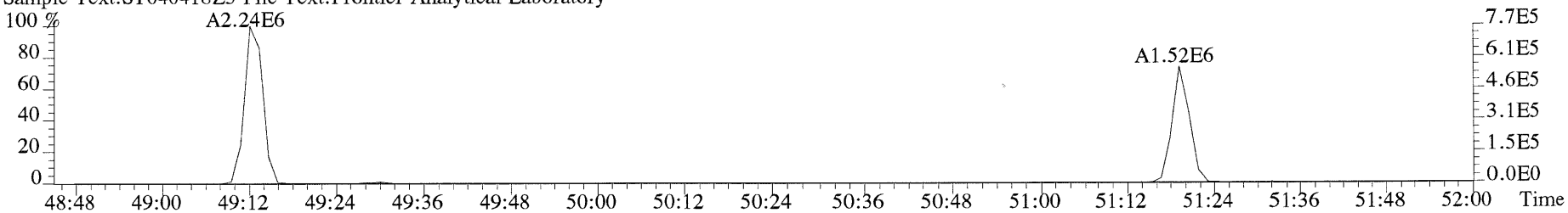
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



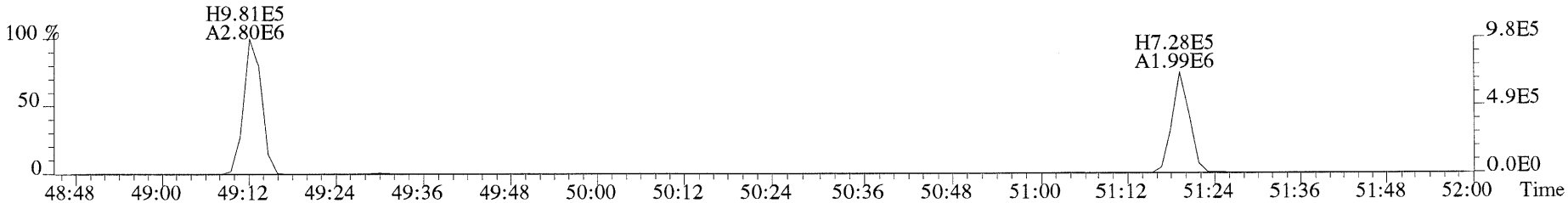
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



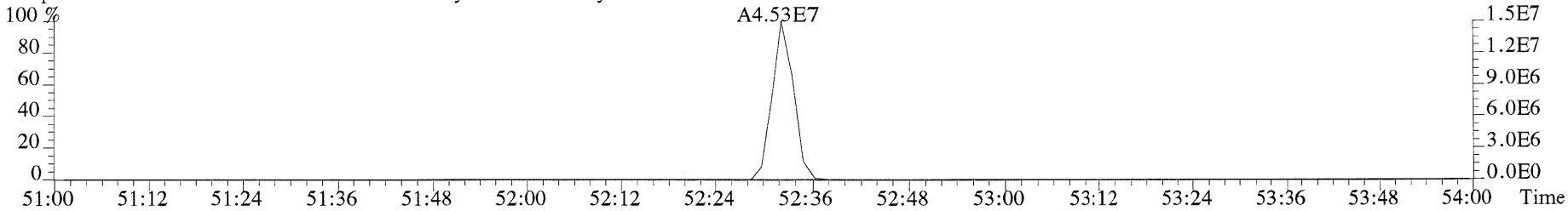
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



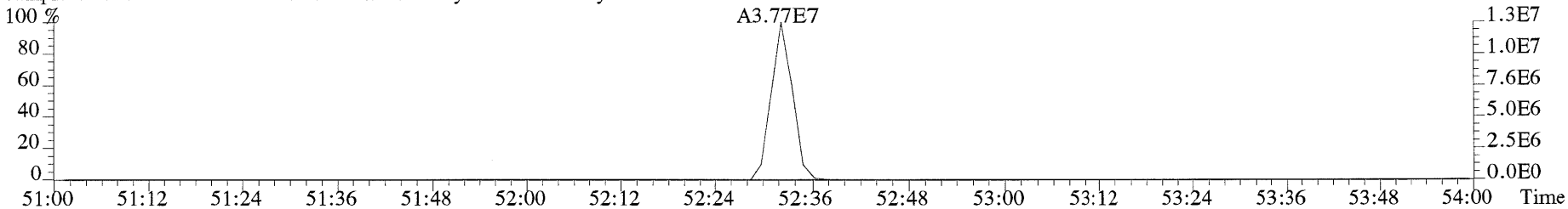
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



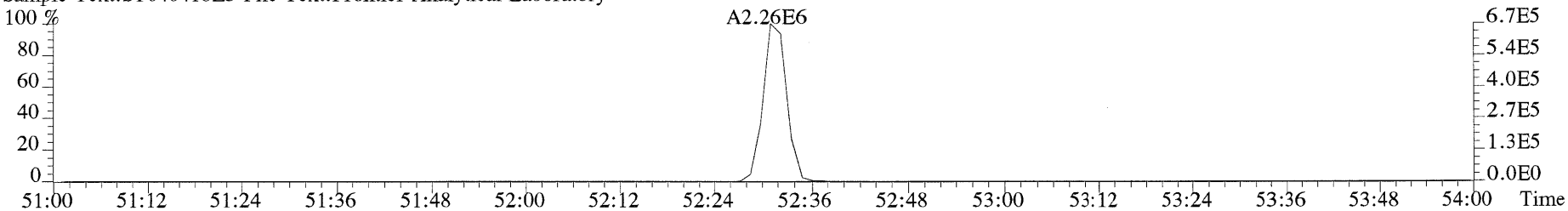
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



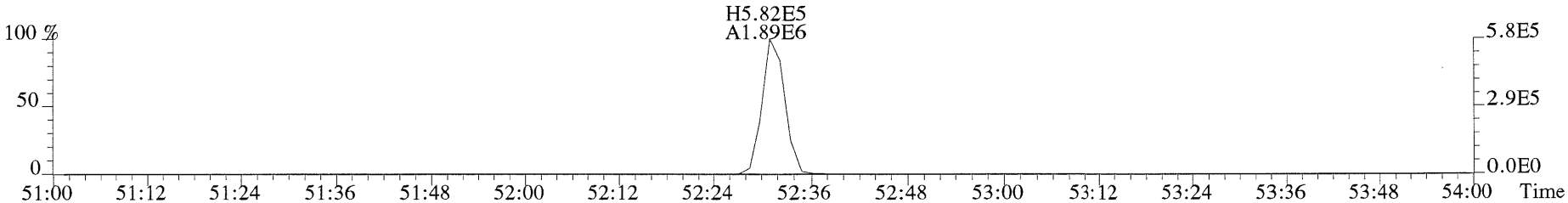
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



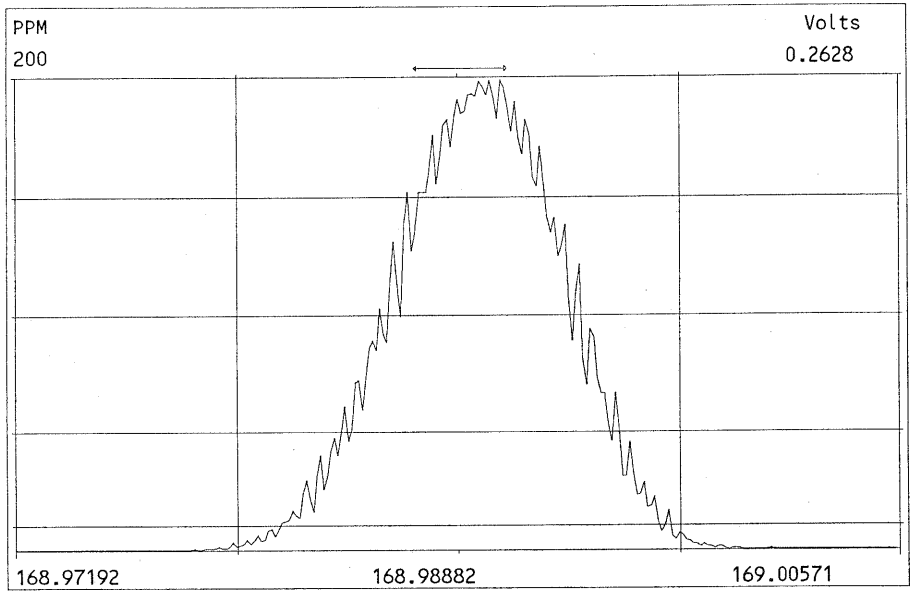
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory

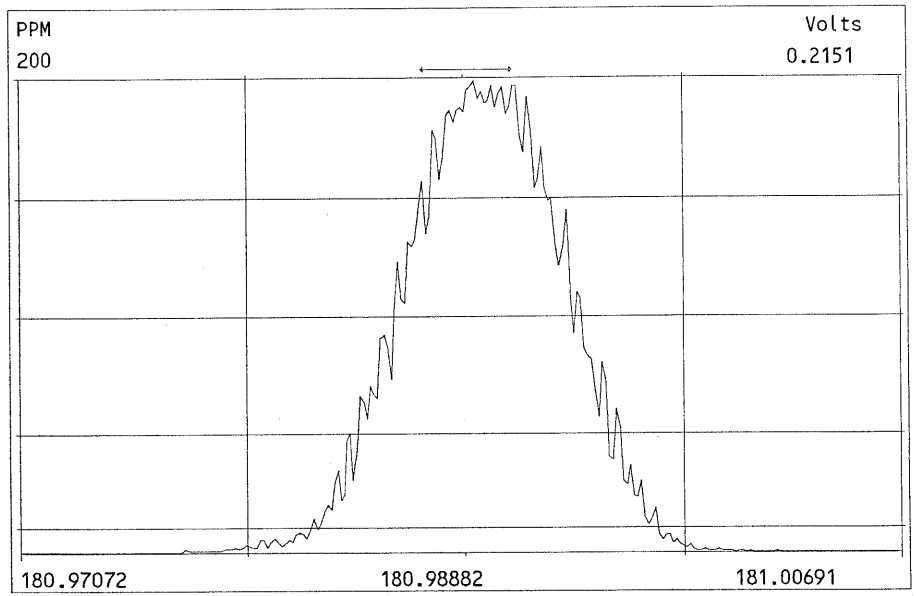


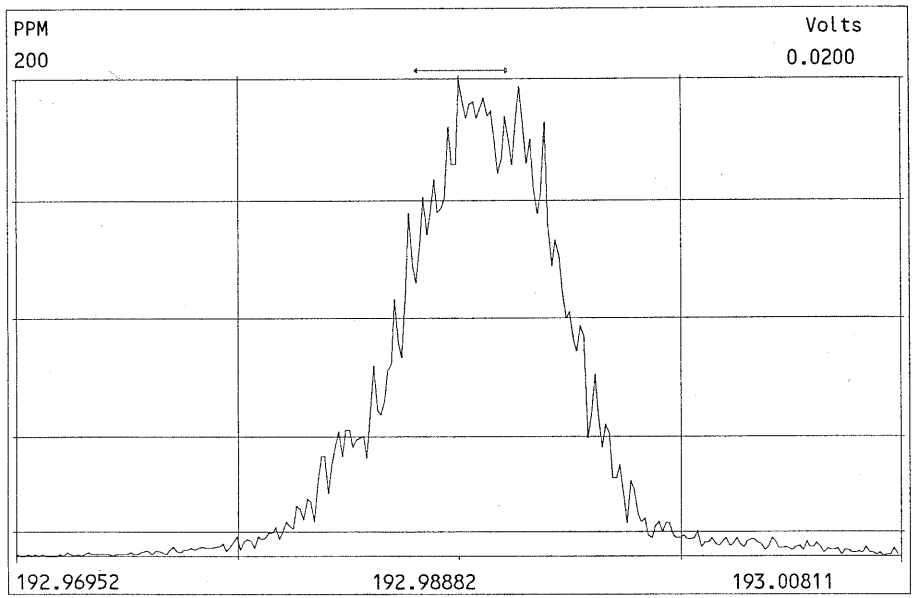
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory

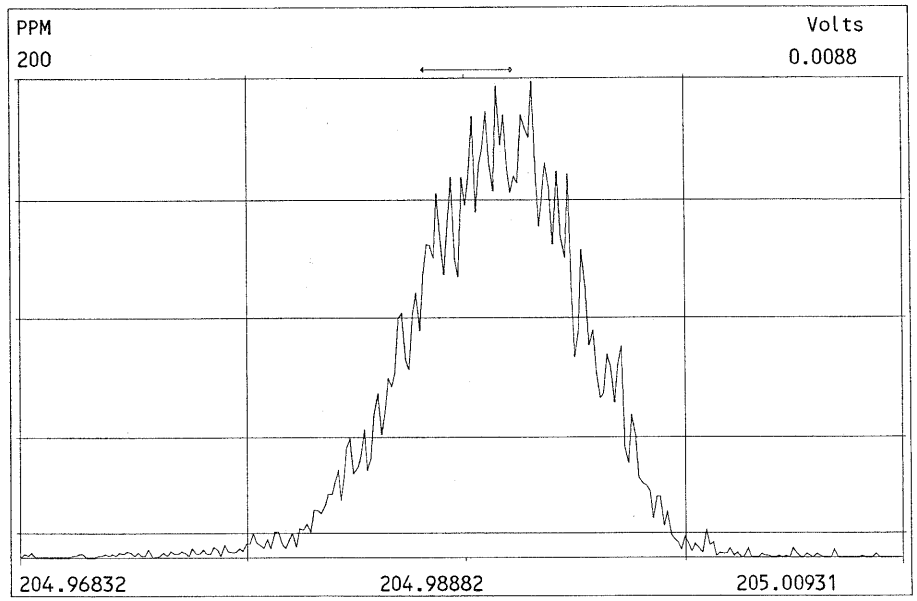


Peak Locate Examination: 5-APR-2018:08:20 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

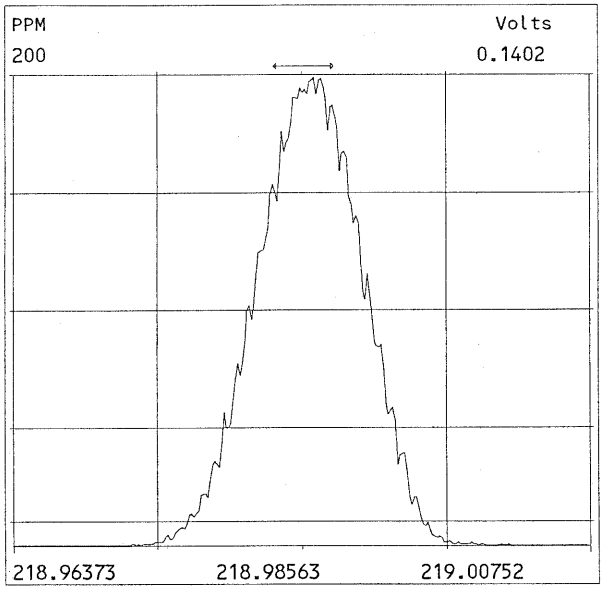


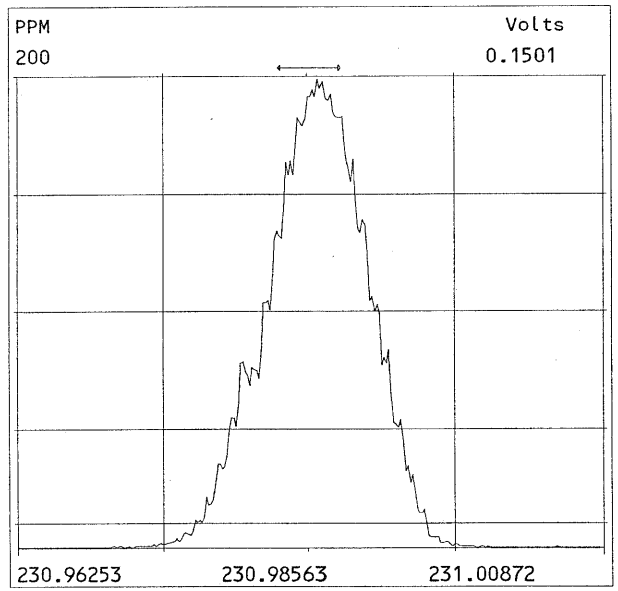


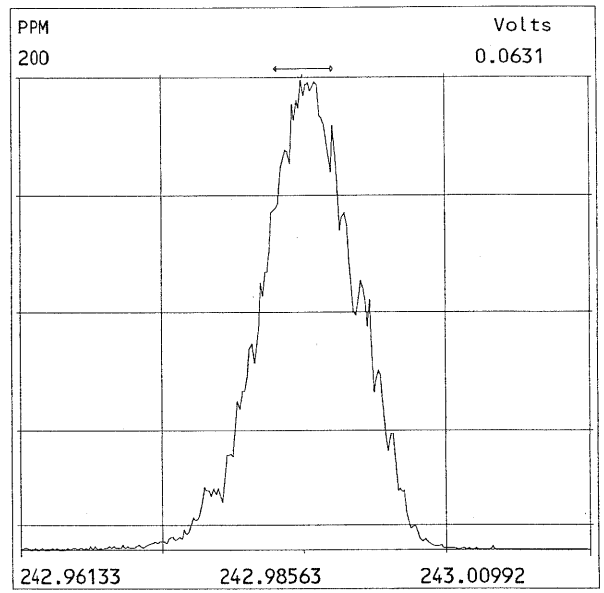


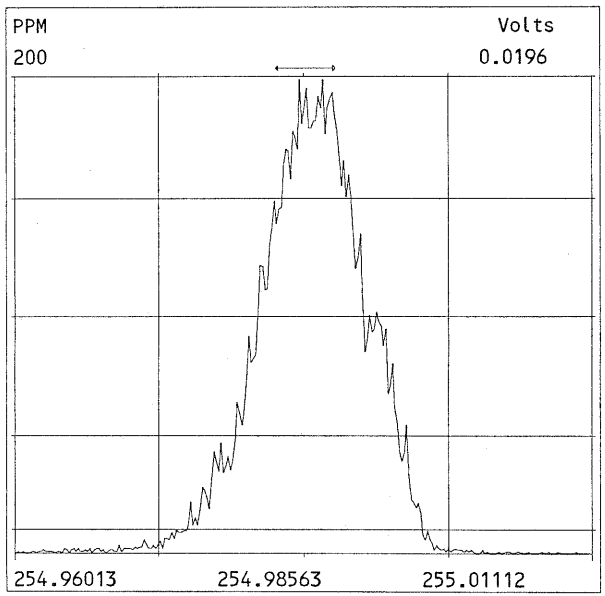


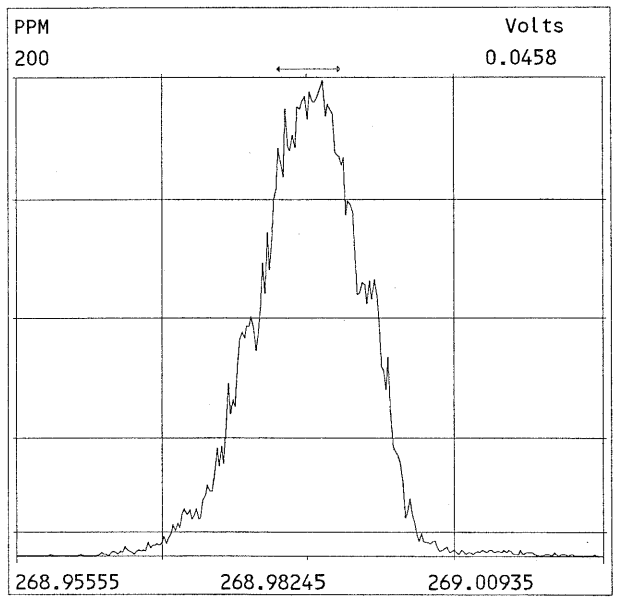
Peak Locate Examination: 5-APR-2018:08:21 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

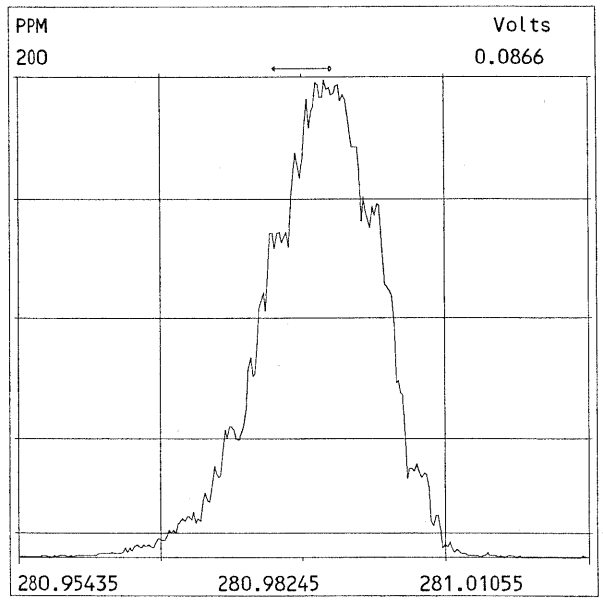




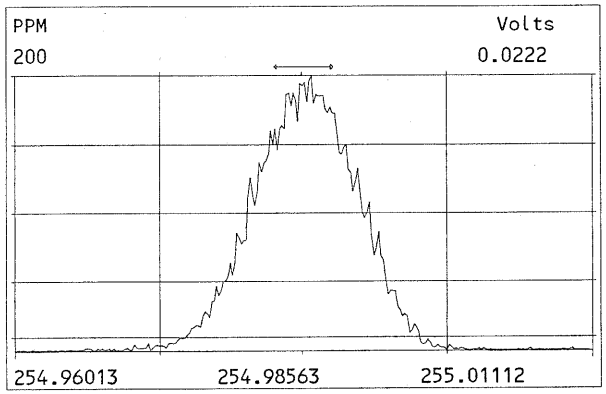


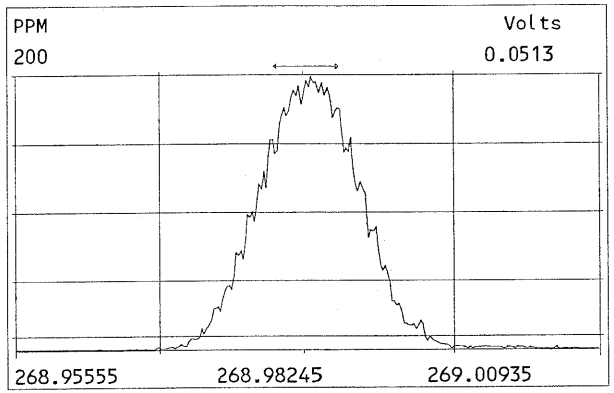


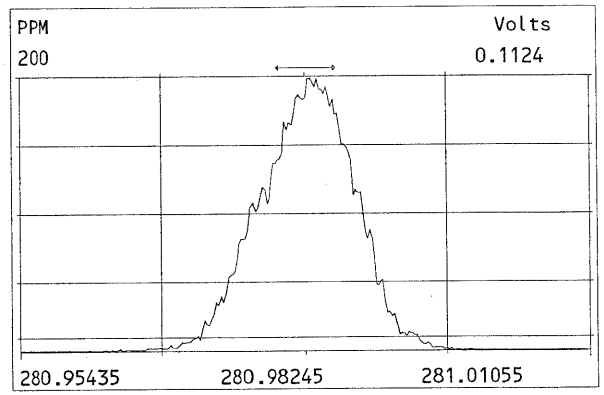


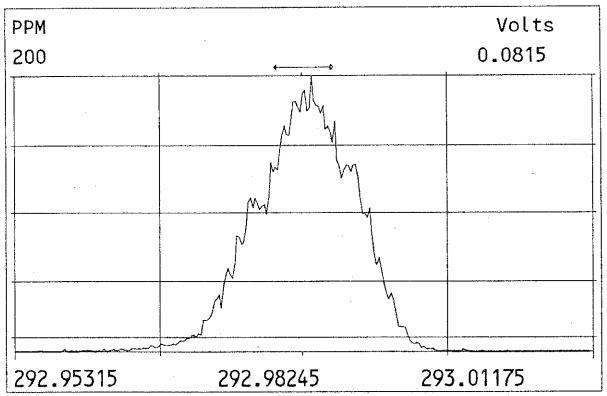


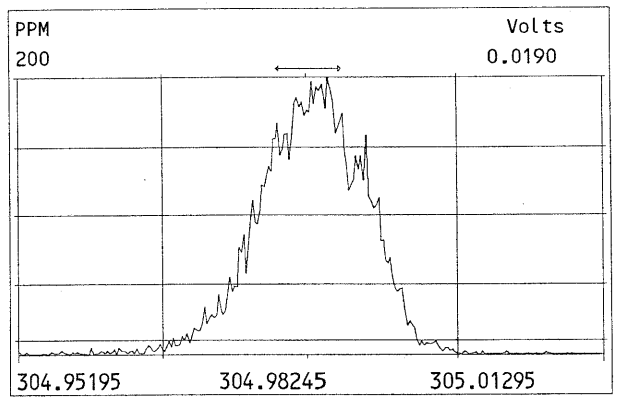
Peak Locate Examination: 5-APR-2018:08:21 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

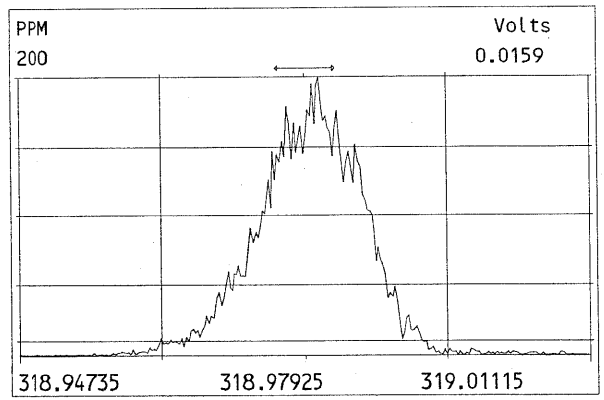


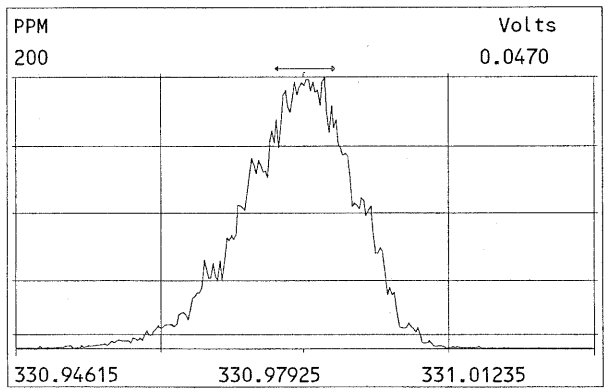


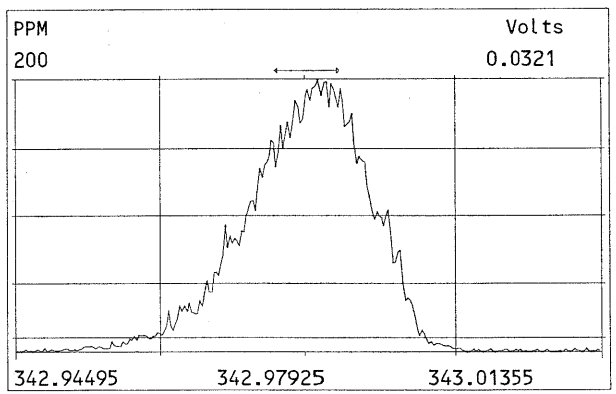




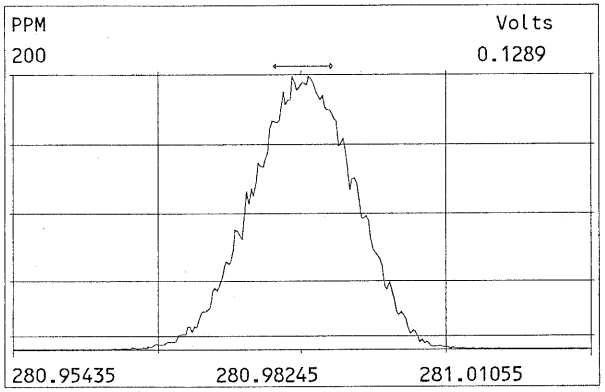


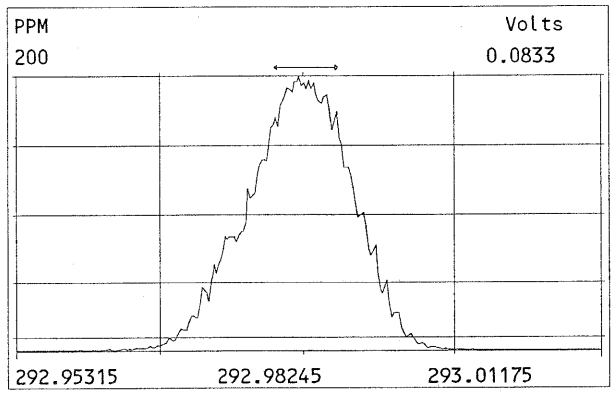


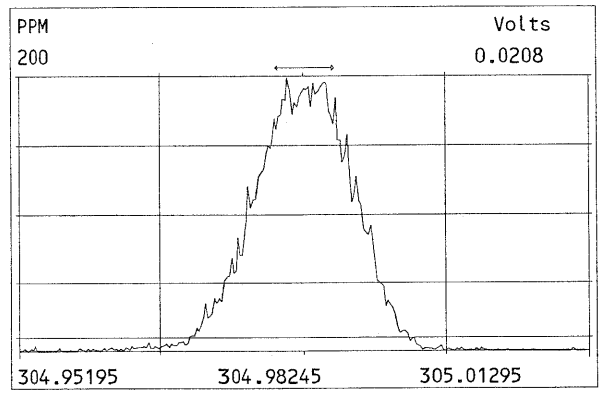


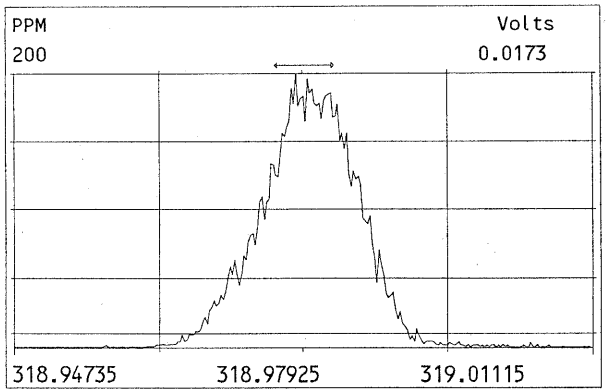


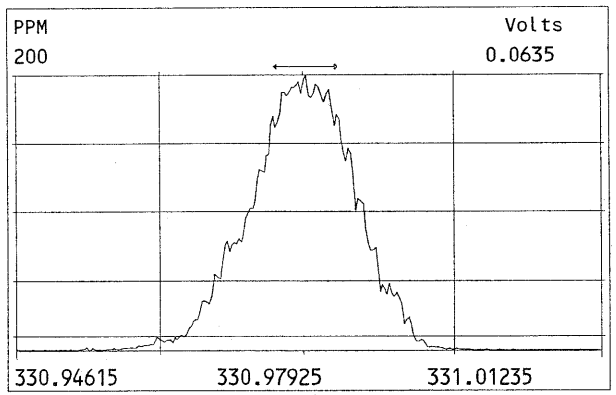
Peak Locate Examination: 5-APR-2018:08:22 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

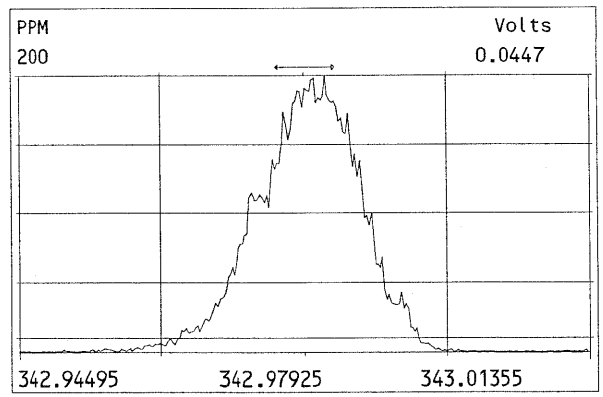


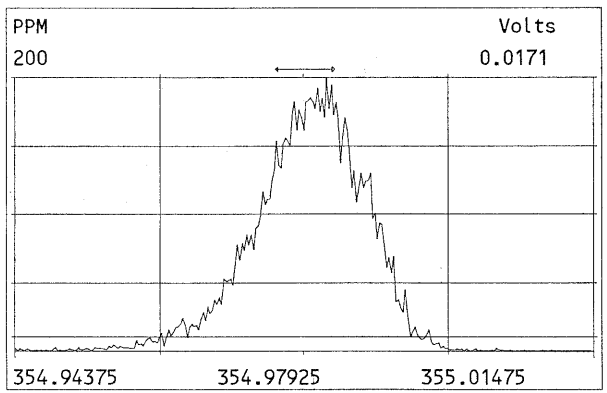


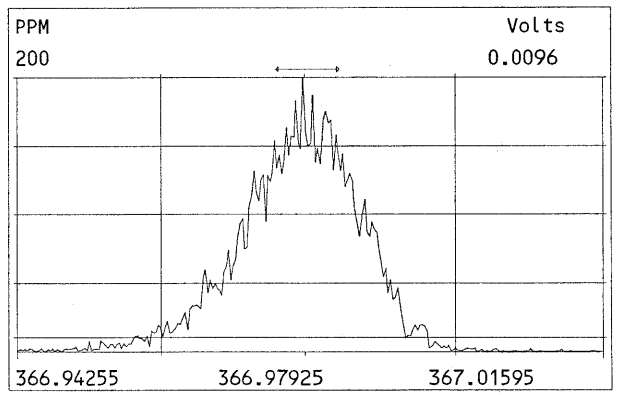


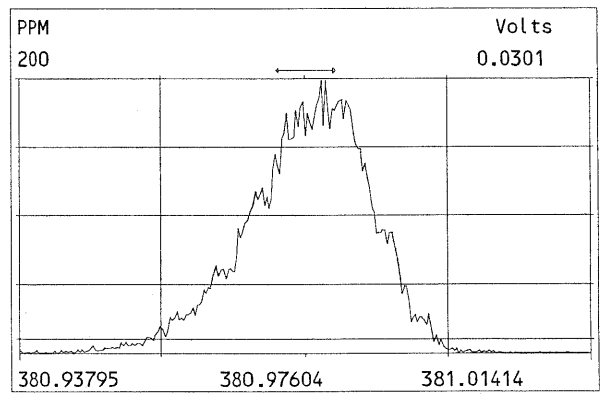




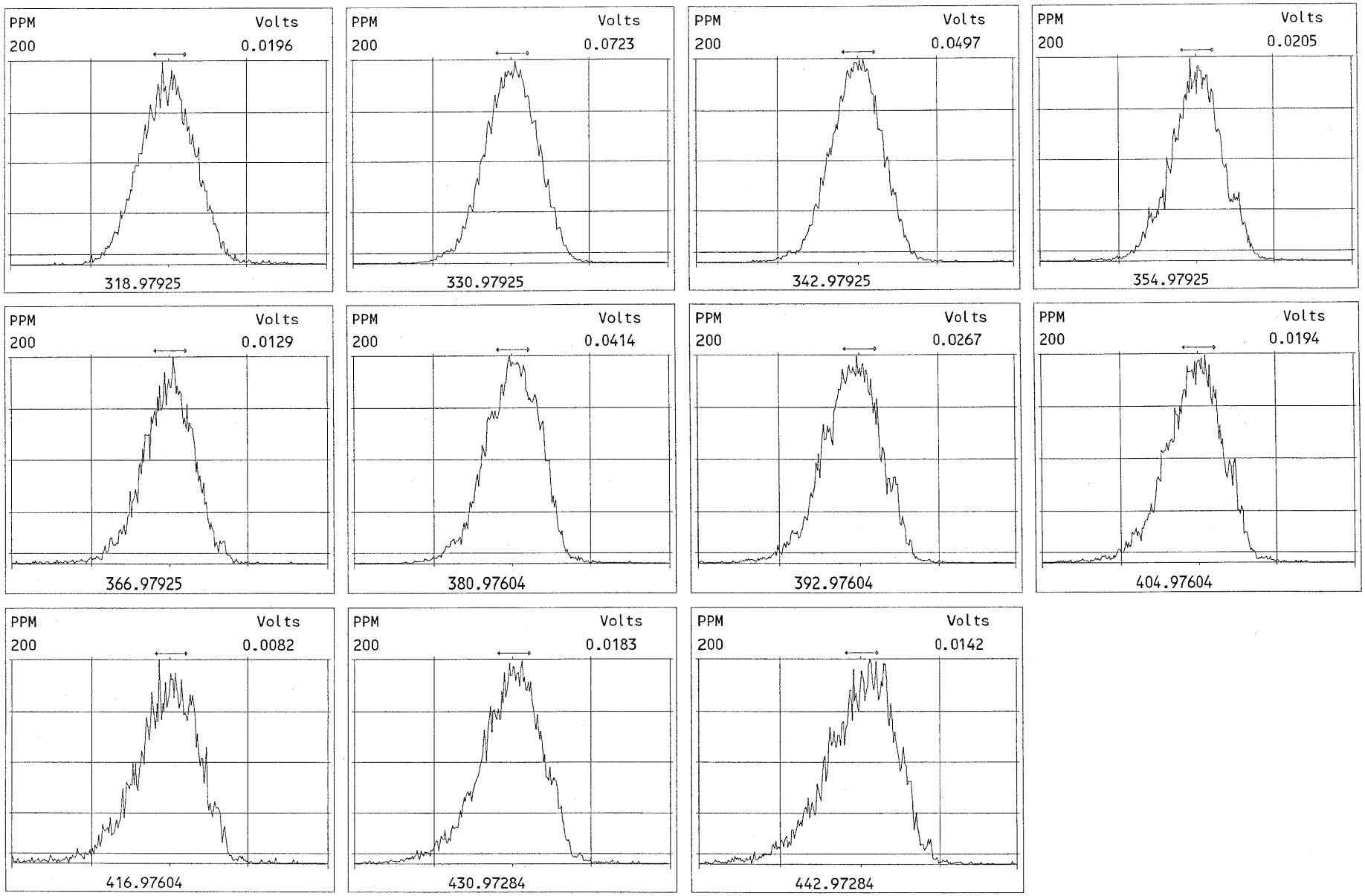




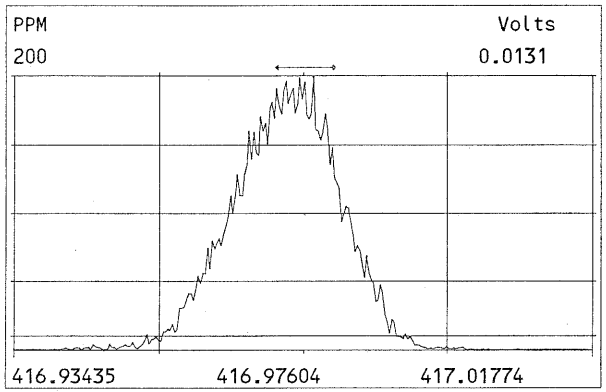


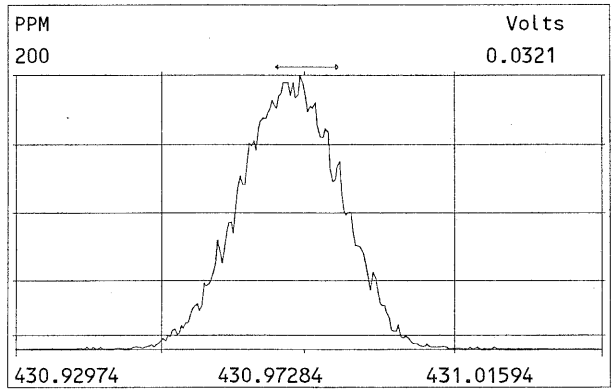


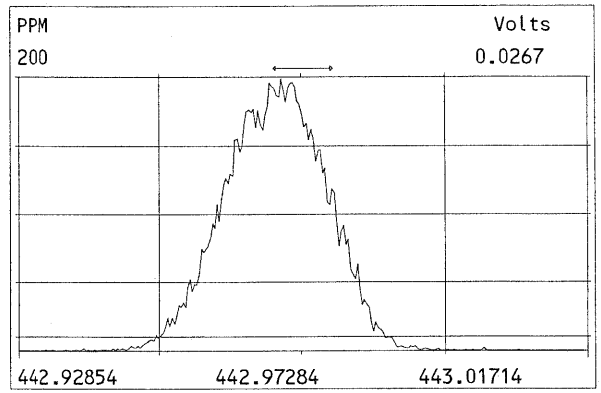
Peak Locate Examination: 5-APR-2018:08:22 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

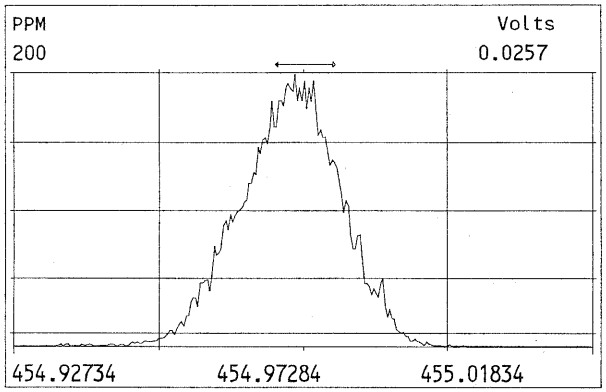


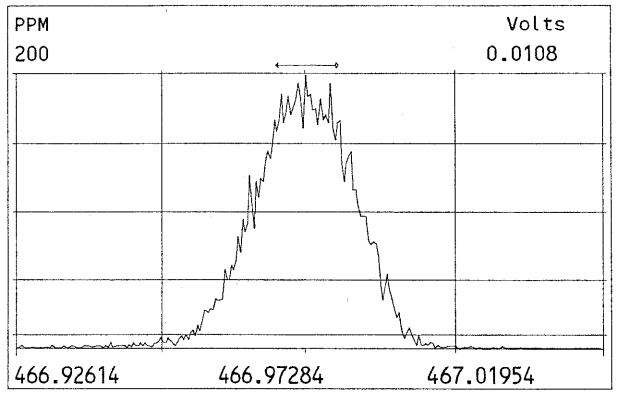
Peak Locate Examination: 5-APR-2018:08:23 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

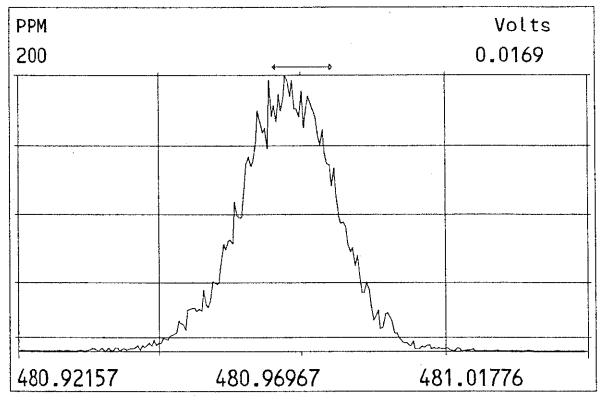


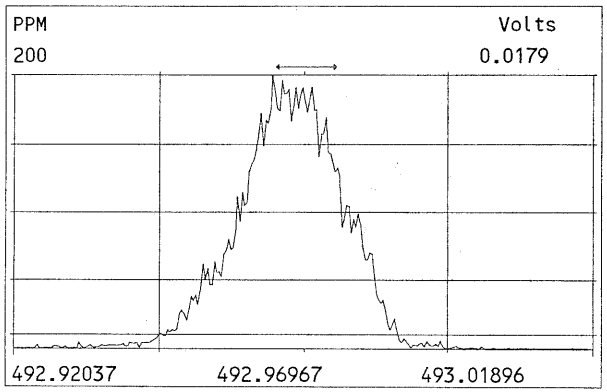


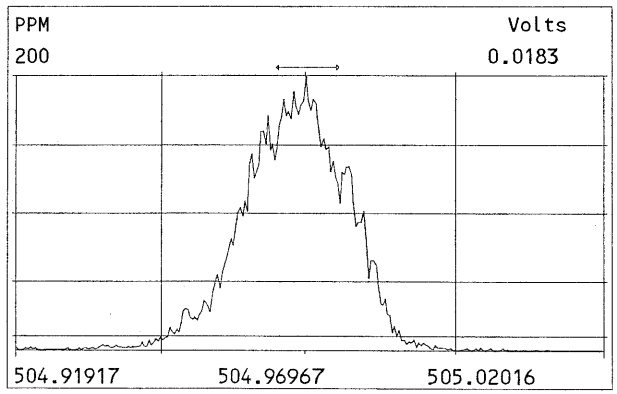


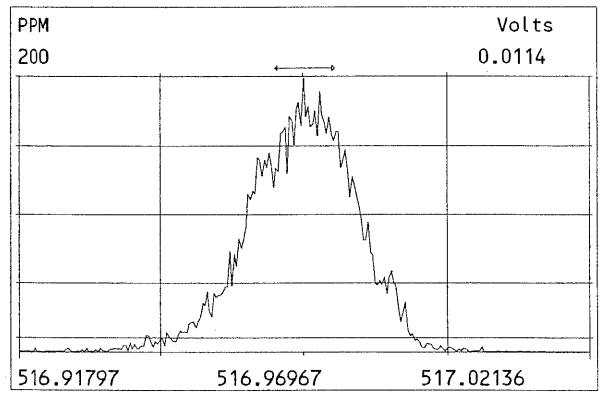












Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 27JUL18Z Sam:1 Analysis Date: 27-JUL-18 08:52:48

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.22	2.66-3.60	y	50.2	37.5 - 62.5
PCB-3	M/M+2	3.17	2.66-3.60	y	50.0	37.5 - 62.5
PCB-4	M/M+2	1.52	1.33-1.79	y	53.2	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	52.9	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	49.7	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	48.2	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	51.3	37.5 - 62.5
PCB-77	M/M+2	0.81	0.65-0.89	y	52.6	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	53.0	37.5 - 62.5
PCB-104	M+2/M+4	1.60	1.32-1.78	y	49.1	37.5 - 62.5
PCB-105	M+2/M+4	1.63	1.32-1.78	y	51.0	37.5 - 62.5
PCB-114	M+2/M+4	1.58	1.32-1.78	y	50.5	37.5 - 62.5
PCB-118	M+2/M+4	1.59	1.32-1.78	y	49.9	37.5 - 62.5
PCB-123	M+2/M+4	1.62	1.32-1.78	y	51.8	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	50.7	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	51.5	37.5 - 62.5
PCB-156	M+2/M+4	1.23	1.05-1.43	y	51.5	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	51.4	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	51.9	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	51.4	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	48.1	37.5 - 62.5
PCB-189	M+2/M+4	1.03	0.89-1.21	y	51.3	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	50.3	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	53.1	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	49.7	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	49.3	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	50.2	37.5 - 62.5

Analyst: _____ Date: 7/27/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/4/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 27JUL18Z Sam:1 Analysis Date: 27-JUL-18 08:52:48

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.20	2.66-3.60	y	85.7	50.0 - 145
13C-PCB-3	M/M+2	3.23	2.66-3.60	y	89.0	50.0 - 145
13C-PCB-4	M/M+2	1.61	1.33-1.79	y	98.5	50.0 - 145
13C-PCB-15	M/M+2	1.62	1.33-1.79	y	94.3	50.0 - 145
13C-PCB-19	M/M+2	1.10	0.88-1.20	y	98.1	50.0 - 145
13C-PCB-37	M/M+2	1.10	0.88-1.20	y	114	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	98.9	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	103	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	102	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	88.0	50.0 - 145
13C-PCB-105	M+2/M+4	1.66	1.32-1.78	y	101	50.0 - 145
13C-PCB-114	M+2/M+4	1.67	1.32-1.78	y	104	50.0 - 145
13C-PCB-118	M+2/M+4	1.62	1.32-1.78	y	111	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	95.7	50.0 - 145
13C-PCB-126	M+2/M+4	1.62	1.32-1.78	y	99.2	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	82.6	50.0 - 145
13C-PCB-156	M+2/M+4	1.26	1.05-1.43	y	91.0	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	95.2	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	94.6	50.0 - 145
13C-PCB-169	M+2/M+4	1.26	1.05-1.43	y	93.3	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	90.6	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	93.8	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	81.4	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	96.6	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	104	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	93.9	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	92.9	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.08	0.88-1.20	y	117	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	94.4	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	89.8	75.0 - 125

Analyst: [signature] Date: 7/27/18

FAL ID: ST072718Z1 Filename: 27JUL18Z Sam:1 Acquired: 27-JUL-18 08:52:48 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.25e+07	3.22 y	14:33	1.11	50.2		2.50	-	-	*	-
13C-PCB-1	7.66e+07	3.20 y	14:32	1.07	85.7		2.50				85.7
PCB-3	4.34e+07	3.17 y	17:00	1.13	50.0		2.50	-	-	*	-
13C-PCB-3	7.69e+07	3.23 y	16:59	1.03	89.0		2.50				89.0
PCB-4	3.39e+07	1.52 y	18:14	1.14	53.2		2.50	-	-	*	-
13C-PCB-4	5.56e+07	1.61 y	18:13	0.67	98.5		2.50				98.5
PCB-15	4.76e+07	1.57 y	23:48	1.10	52.9		2.50	-	-	*	-
13C-PCB-15	8.15e+07	1.62 y	23:47	1.03	94.3		2.50				94.3
PCB-19	2.35e+07	1.07 y	22:08	1.23	49.7		2.50	-	-	*	-
13C-PCB-19	3.86e+07	1.10 y	22:06	0.47	98.1		2.50				98.1
13C-PCB-9	8.37e+07	1.63 y	19:54	-	357		2.50				
PCB-37	4.13e+07	1.04 y	30:27	1.26	48.2		2.50	-	-	*	-
13C-PCB-37	6.82e+07	1.10 y	30:27	1.40	114		2.50				114
PCB-54	2.98e+07	0.80 y	25:40	1.16	51.3		2.50	-	-	*	-
13C-PCB-54	5.03e+07	0.82 y	25:39	1.19	98.9		2.50				98.9
PCB-104	1.81e+07	1.60 y	30:07	1.22	49.1		2.50	-	-	*	-
13C-PCB-104	3.01e+07	1.61 y	30:06	0.80	88.0		2.50				88.0
13C-PCB-28	7.68e+07	1.08 y	26:45	1.53	117		2.50				117
13C-PCB-52	4.29e+07	0.81 y	29:01	-	331		2.50				
PCB-81	3.21e+07	0.81 y	36:15	1.17	53.0		2.50	-	-	*	-
13C-PCB-81	5.17e+07	0.81 y	36:13	1.37	102		2.50				102
PCB-77	3.12e+07	0.81 y	36:49	1.11	52.6		2.50	-	-	*	-
13C-PCB-77	5.34e+07	0.81 y	36:47	1.41	103		2.50				103
PCB-155	1.83e+07	1.28 y	34:17	1.14	51.5		2.50	-	-	*	-
13C-PCB-155	3.11e+07	1.29 y	34:16	1.02	82.6		2.50				82.6
13C-PCB-111	4.40e+07	1.59 y	36:22	1.26	94.4		2.50				94.4
13C-PCB-101	3.69e+07	1.64 y	34:44	-	327		2.50				
PCB-123	2.70e+07	1.62 y	38:26	1.12	51.8		2.50	-	-	*	-
13C-PCB-123	4.64e+07	1.61 y	38:24	1.36	95.7		2.50				95.7
PCB-118	3.25e+07	1.59 y	38:36	1.16	49.9		2.50	-	-	*	-
13C-PCB-118	5.63e+07	1.62 y	38:34	1.42	111		2.50				111
PCB-114	2.92e+07	1.58 y	39:14	1.13	50.5		2.50	-	-	*	-
13C-PCB-114	5.14e+07	1.67 y	39:12	1.38	104		2.50				104
PCB-105	2.82e+07	1.63 y	40:01	1.11	51.0		2.50	-	-	*	-
13C-PCB-105	4.99e+07	1.66 y	40:01	1.38	101		2.50				101
PCB-126	2.58e+07	1.58 y	42:10	1.11	50.7		2.50	-	-	*	-
13C-PCB-126	4.56e+07	1.62 y	42:10	1.29	99.2		2.50				99.2
PCB-167	2.27e+07	1.26 y	43:32	1.05	51.9		2.50	-	-	*	-
13C-PCB-167	4.17e+07	1.28 y	43:31	1.23	94.6		2.50				94.6
PCB-156	2.15e+07	1.23 y	44:45	1.08	51.5		2.50	-	-	*	-
13C-PCB-156	3.87e+07	1.26 y	44:45	1.19	91.0		2.50				91.0
PCB-157	2.29e+07	1.27 y	45:01	1.06	51.4		2.50	-	-	*	-
13C-PCB-157	4.21e+07	1.30 y	44:59	1.24	95.2		2.50				95.2
PCB-169	2.09e+07	1.27 y	46:51	1.06	51.4		2.50	-	-	*	-
13C-PCB-169	3.83e+07	1.26 y	46:51	1.15	93.3		2.50				93.3
PCB-188	2.01e+07	1.08 y	39:47	1.14	48.1		2.50	-	-	*	-
13C-PCB-188	3.65e+07	1.07 y	39:47	1.13	90.6		2.50				90.6
PCB-189	1.82e+07	1.03 y	48:30	1.12	51.3		2.50	-	-	*	-
13C-PCB-189	3.17e+07	1.08 y	48:30	0.94	93.8		2.50				93.8
PCB-202	1.23e+07	0.92 y	44:53	1.09	50.3		2.50	-	-	*	-
13C-PCB-202	2.25e+07	0.92 y	44:53	0.77	81.4		2.50				81.4
13C-PCB-178	2.45e+07	1.06 y	42:25	0.76	89.8		2.50				89.8
13C-PCB-138	3.57e+07	1.30 y	41:39	-	327		2.50				

FAL ID: ST072718Z1 Filename: 27JUL18Z Sam:1 Acquired: 27-JUL-18 08:52:48 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	2.69e+07	0.91 y	50:10	1.04	53.1	2.50	-	-	*	-
13C-PCB-205	4.86e+07	0.91 y	50:08	1.32	96.6	2.50				96.6
PCB-208	2.26e+07	1.35 y	49:12	0.96	49.3	2.50	-	-	*	-
13C-PCB-208	4.76e+07	0.81 y	49:11	1.33	93.9	2.50				93.9
PCB-206	1.80e+07	1.35 y	51:20	0.97	49.7	2.50	-	-	*	-
13C-PCB-206	3.72e+07	0.79 y	51:20	0.94	104	2.50				104
PCB-209	2.18e+07	1.18 y	52:31	1.17	50.2	2.50	-	-	*	-
13C-PCB-209	3.70e+07	1.20 y	52:31	1.04	92.9	2.50				92.9
13C-PCB-194	3.82e+07	0.92 y	49:53	-	385	2.50				

Analyst: _____ Date: 7/27/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:27JUL18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

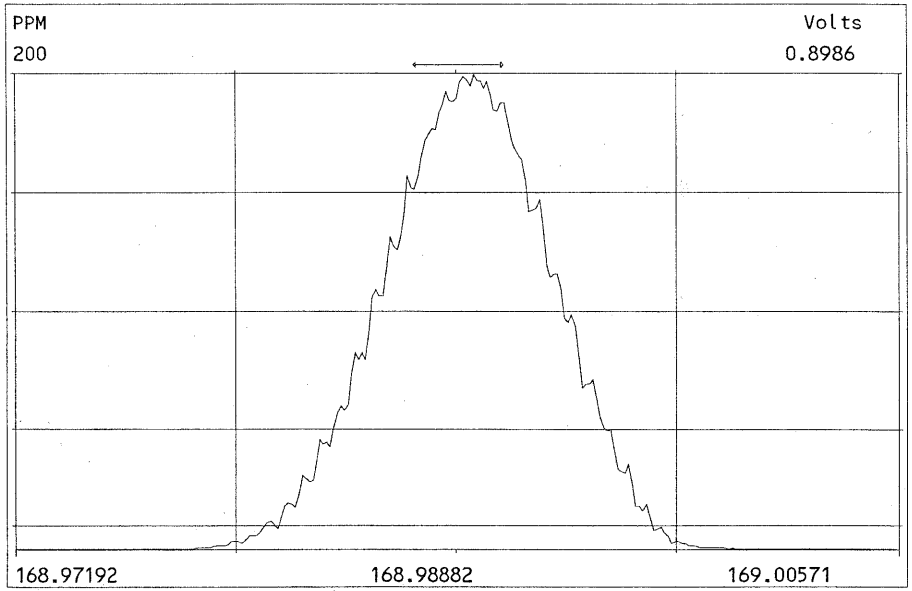
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
27JUL18Z	1	ST072718Z1	1668 CS3 170805A	27-JUL-18 08:52:48	ST072718Z1	ST072718Z2	BS
27JUL18Z	2	SS072718Z1	Daily 209 171222A	27-JUL-18 09:51:08	ST072718Z1	ST072718Z2	BS
27JUL18Z	3	04584-001-0001-OPR	OPR	27-JUL-18 10:49:29	ST072718Z1	ST072718Z2	BS
27JUL18Z	4	04584-001-0001-MB	Method Blank	27-JUL-18 11:47:50	ST072718Z1	ST072718Z2	BS
27JUL18Z	5	11703-001-0001-SA	LDW-Y1-SC-ENR+AC-CA-S010	27-JUL-18 12:46:11	ST072718Z1	ST072718Z2	BS
27JUL18Z	6	11703-002-0001-SA	LDW-Y1-SC-ENR+AC-CB-S010	27-JUL-18 13:44:32	ST072718Z1	ST072718Z2	BS
27JUL18Z	7	11703-003-0001-SA	LDW-Y1-SC-ENR+AC-CC-S010	27-JUL-18 14:42:54	ST072718Z1	ST072718Z2	BS
27JUL18Z	8	11703-006-0001-SA	LDW-Y1-SC-ENR-CA-S010	27-JUL-18 15:41:35	ST072718Z1	ST072718Z2	BS
27JUL18Z	9	11703-007-0001-SA	LDW-Y1-SC-ENR-CB-S010	27-JUL-18 16:40:21	ST072718Z1	ST072718Z2	BS
27JUL18Z	10	11703-008-0001-SA	LDW-Y1-SC-ENR-CC-S010	27-JUL-18 17:39:07	ST072718Z1	ST072718Z2	BS
27JUL18Z	11	11703-011-0001-SA	LDW-Y1-SU-ENR+AC-CA-S010	27-JUL-18 18:37:29	ST072718Z1	ST072718Z2	BS
27JUL18Z	12	11703-012-0001-SA	LDW-Y1-SU-ENR+AC-CB-S010	27-JUL-18 19:35:50	ST072718Z1	ST072718Z2	BS
27JUL18Z	13	11703-013-0001-SA	LDW-Y1-SU-ENR+AC-CC-S010	27-JUL-18 20:34:11	ST072718Z1	ST072718Z2	BS
27JUL18Z	14	SB072718Z1	Solvent Blank	27-JUL-18 21:32:57	ST072718Z1	ST072718Z2	BS
27JUL18Z	15	ST072718Z2	1668 CS3 170805A	27-JUL-18 22:31:19	ST072718Z1	ST072718Z2	BS

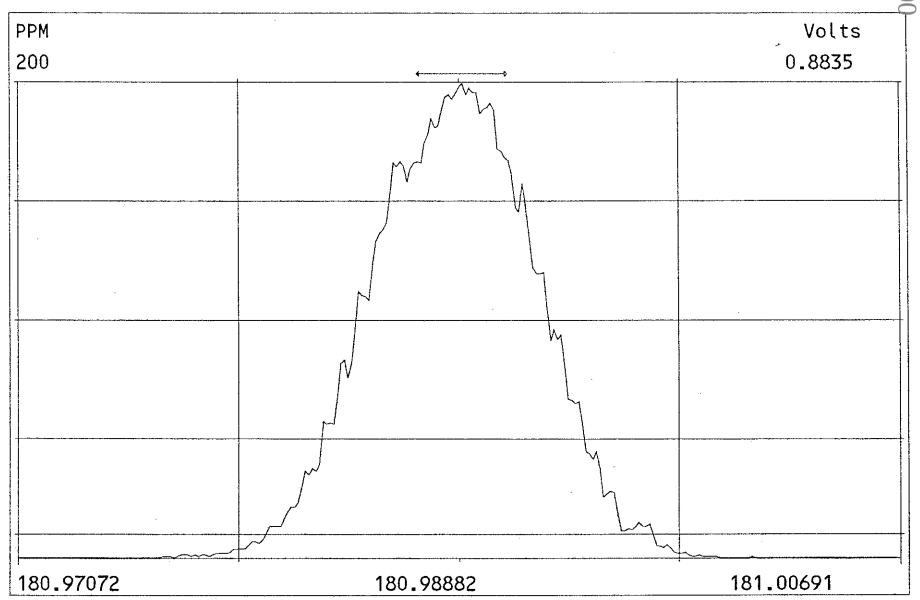
8/22/18

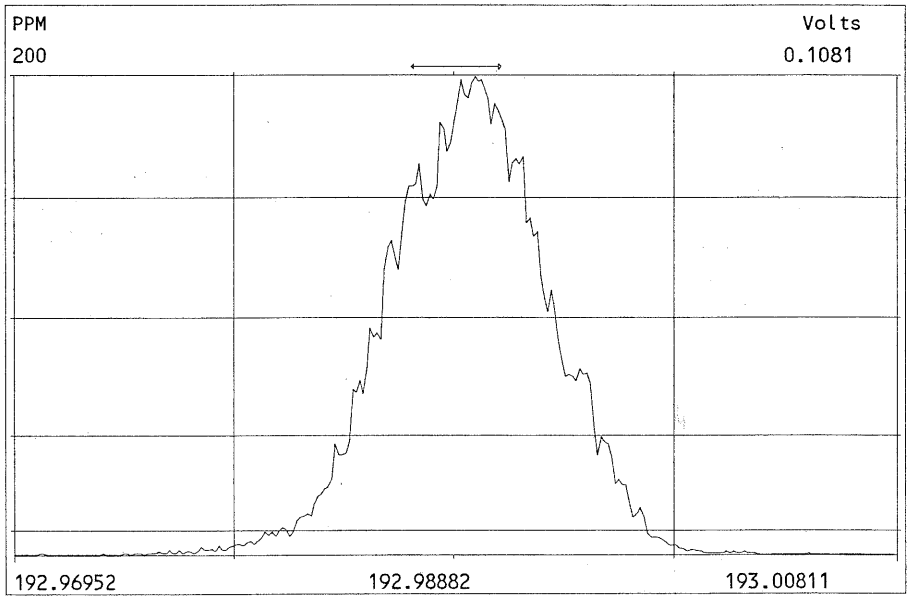
Data Backed Up:_____

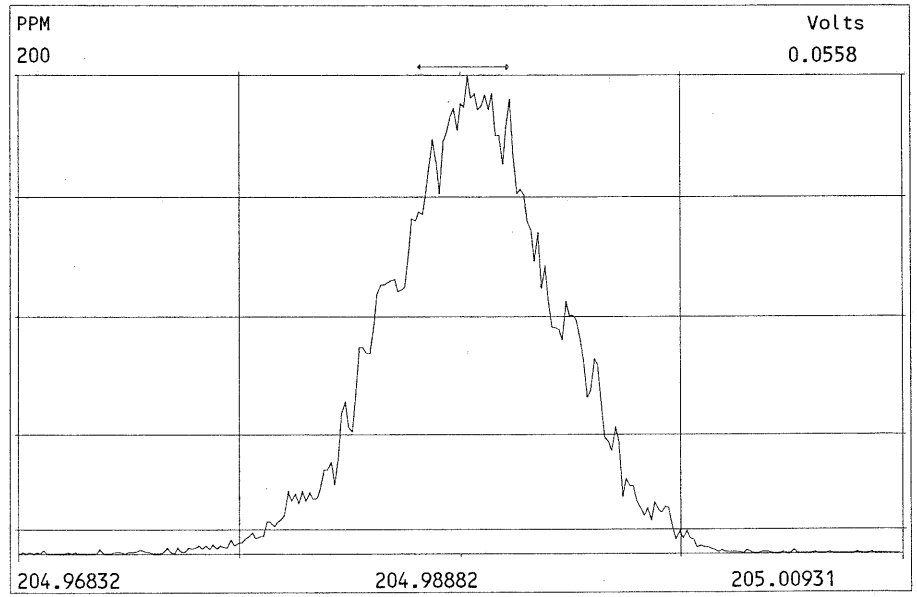
Date:_____

Peak Locate Examination:27-JUL-2018:08:49 File:27JUL18Z
Experiment:1668PCB Function:1 Reference:PFK

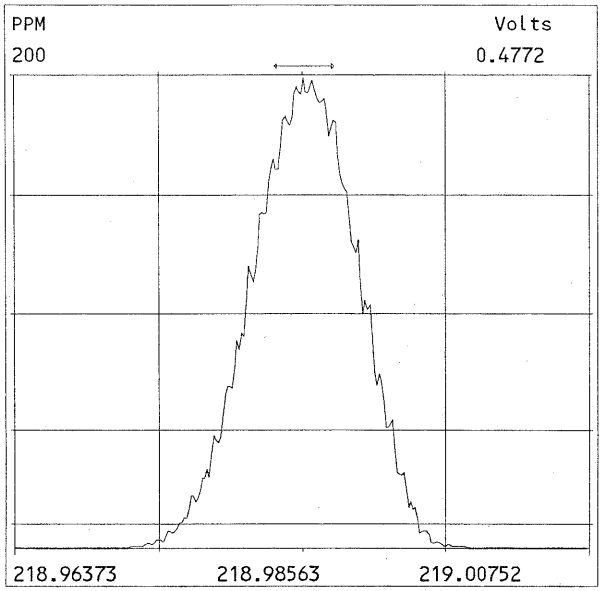


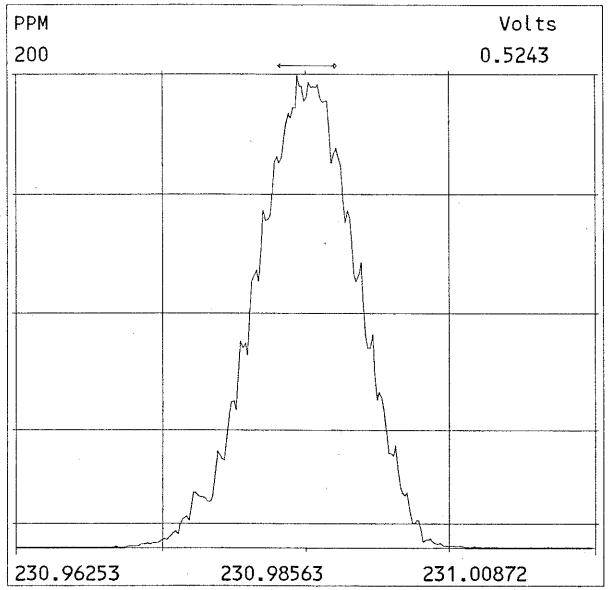


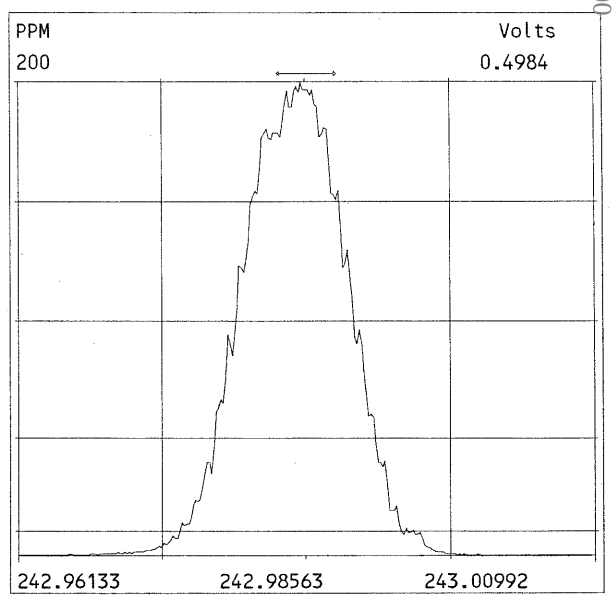


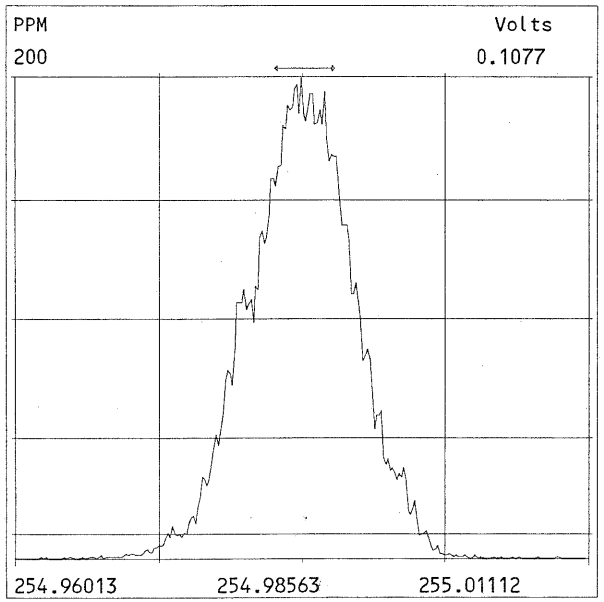


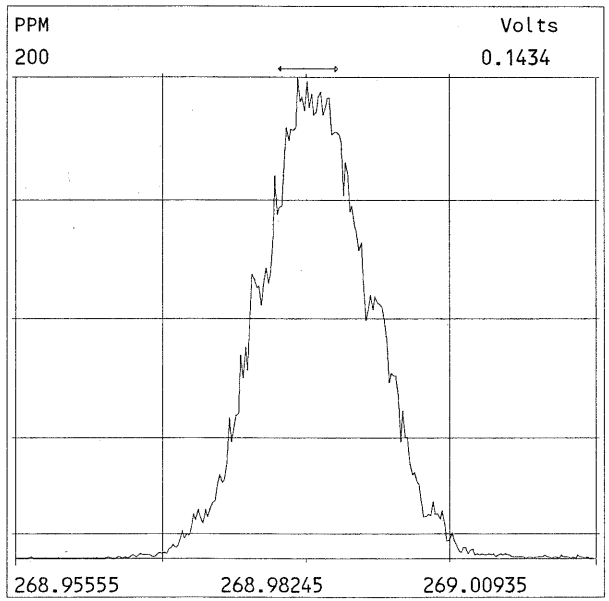
Peak Locate Examination:27-JUL-2018:08:50 File:27JUL18Z
Experiment:1668PCB Function:2 Reference:PFK

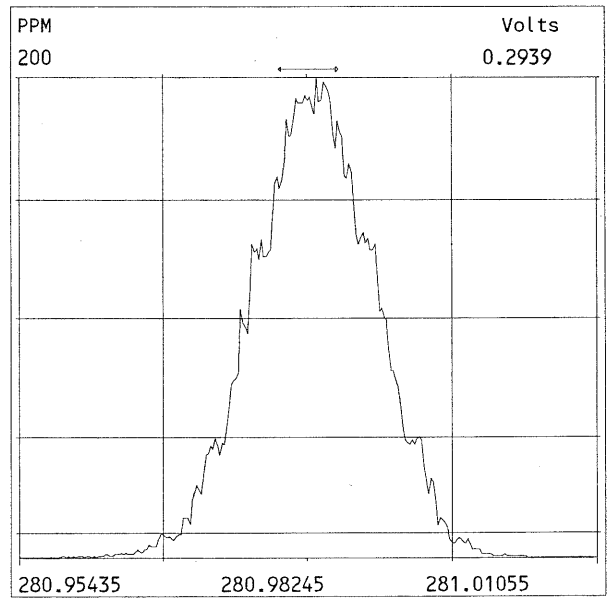




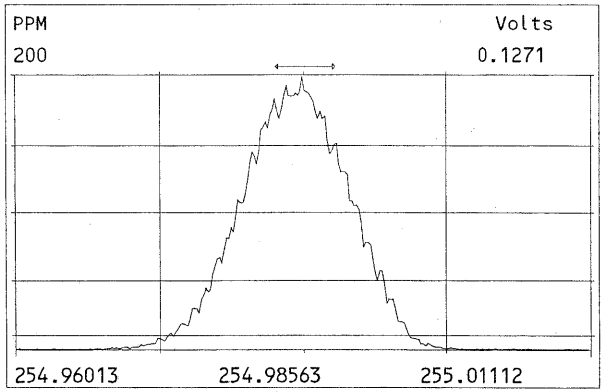


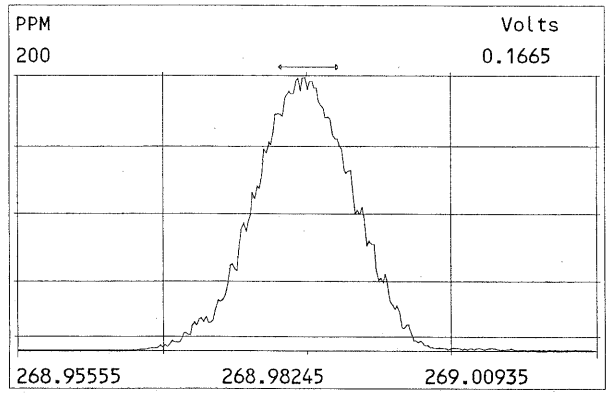


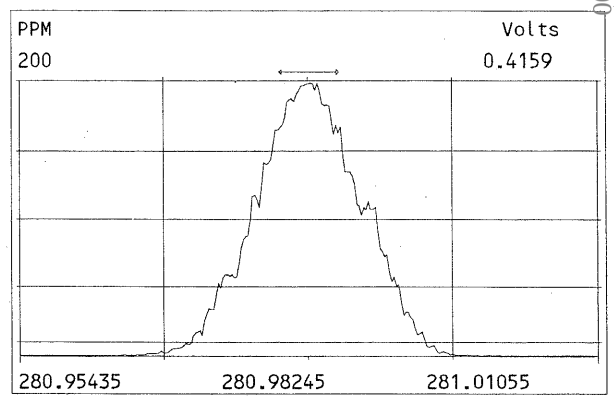


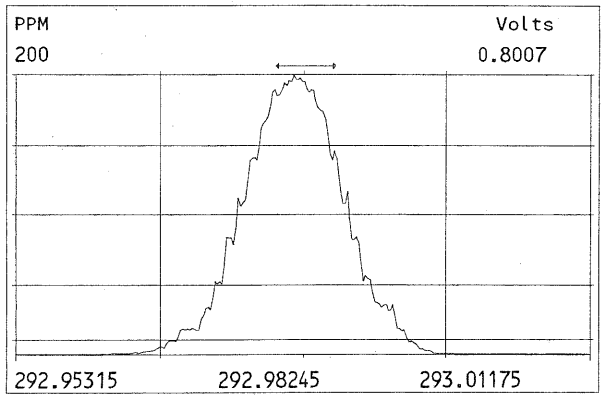


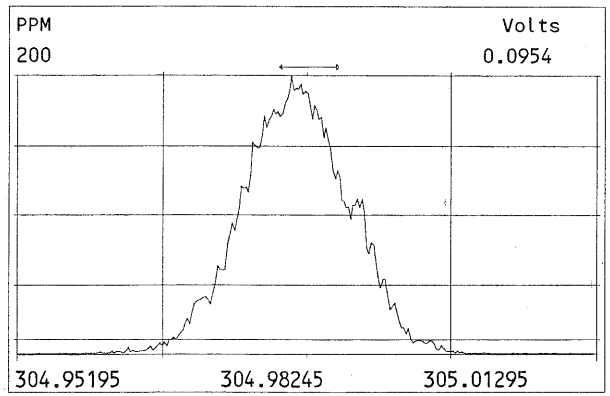
Peak Locate Examination:27-JUL-2018:08:50 File:27JUL18Z
Experiment:1668PCB Function:3 Reference:PFK

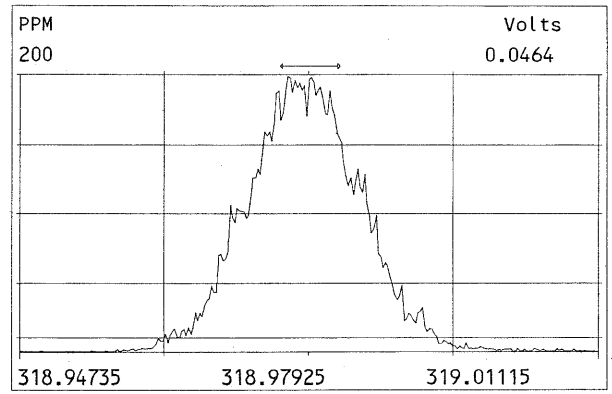


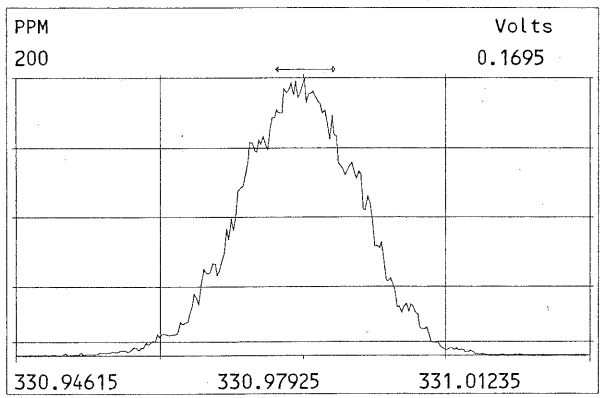


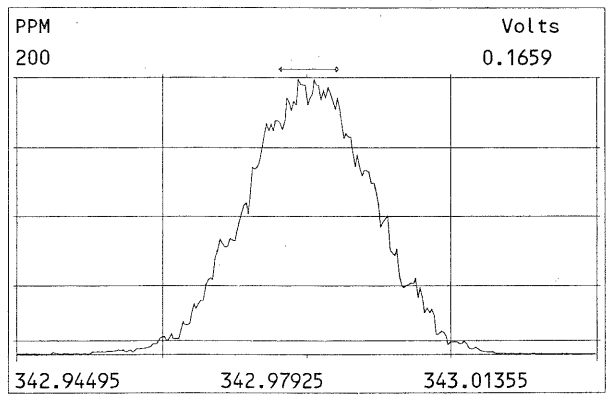






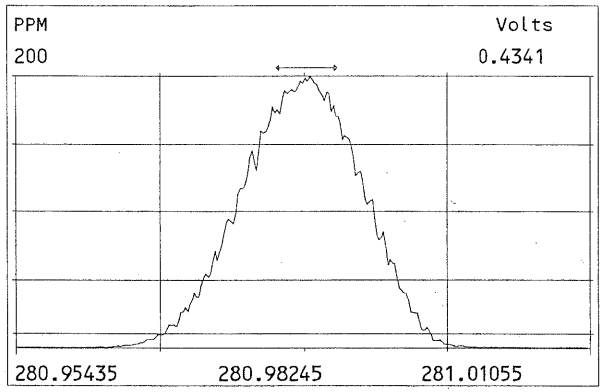


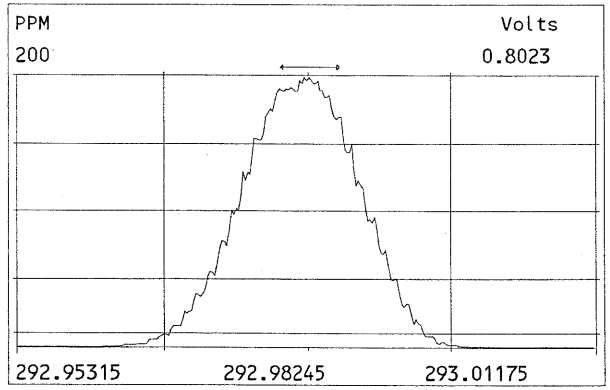


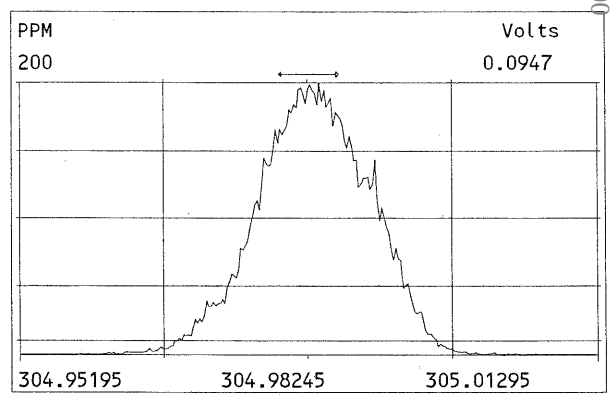


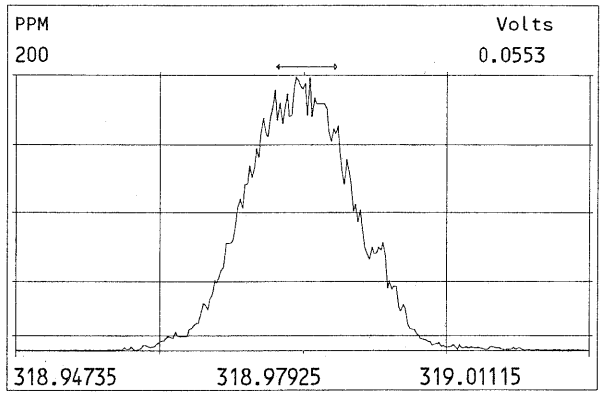
Peak Locate Examination:27-JUL-2018:08:51 File:27JUL18Z

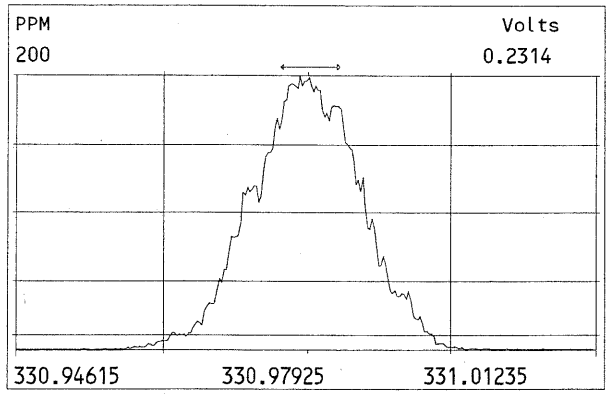
Experiment:1668PCB Function:4 Reference:PFK

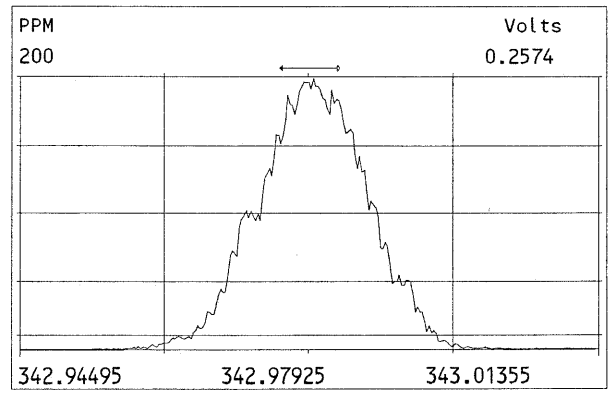


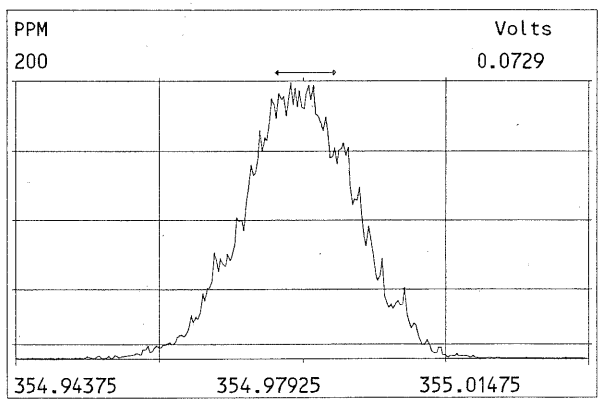


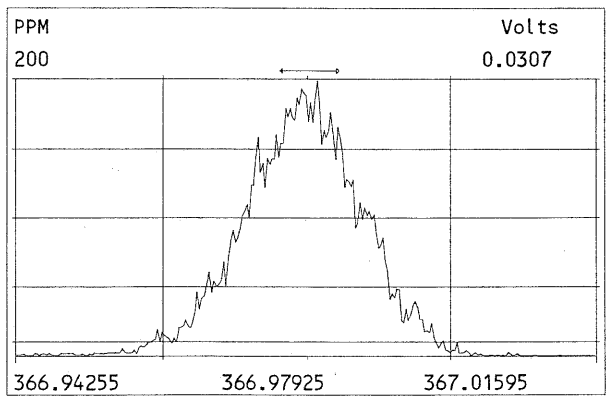


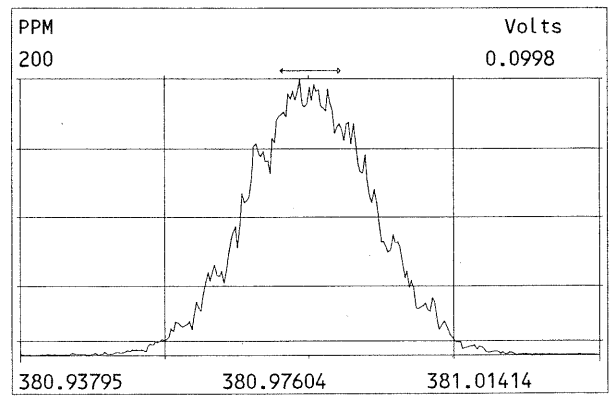




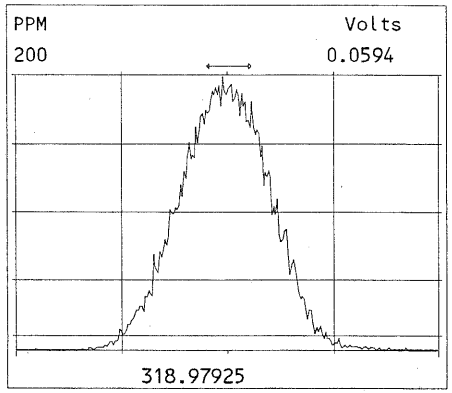


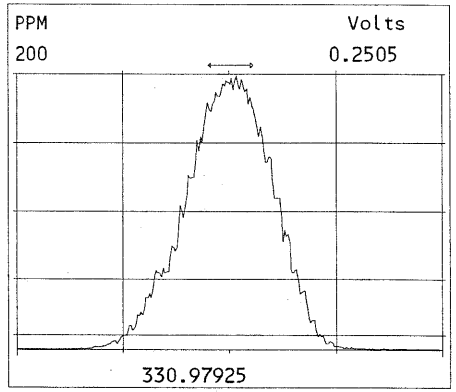


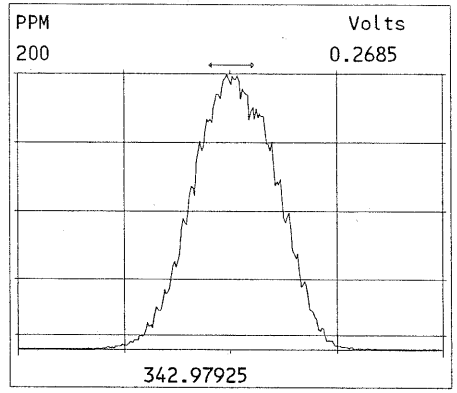


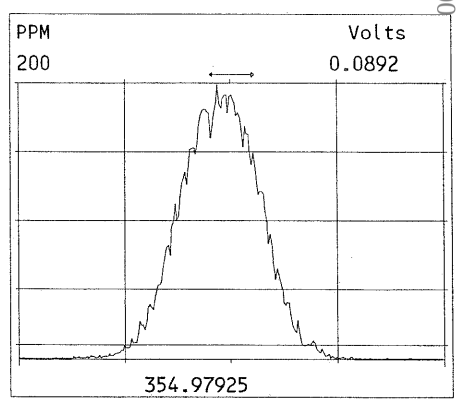


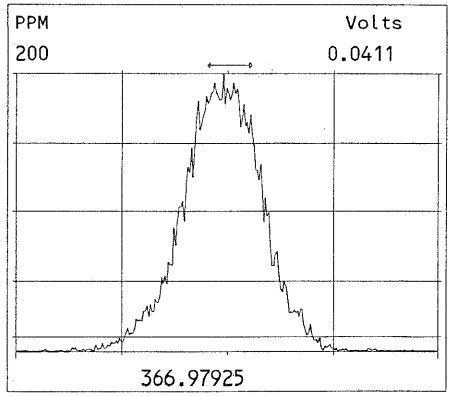
Peak Locate Examination:27-JUL-2018:08:51 File:27JUL18Z
Experiment:1668PCB Function:5 Reference:PFK

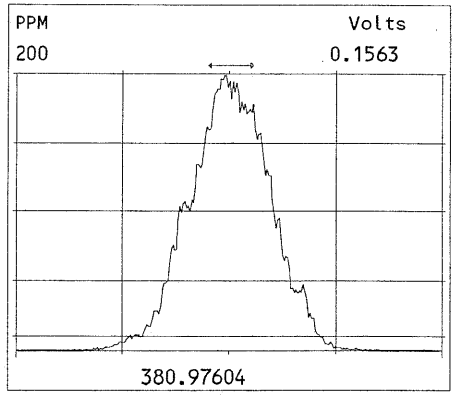


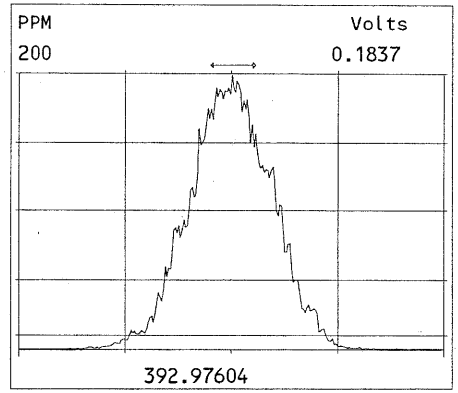


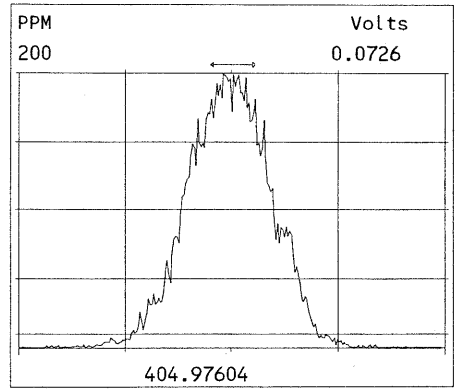


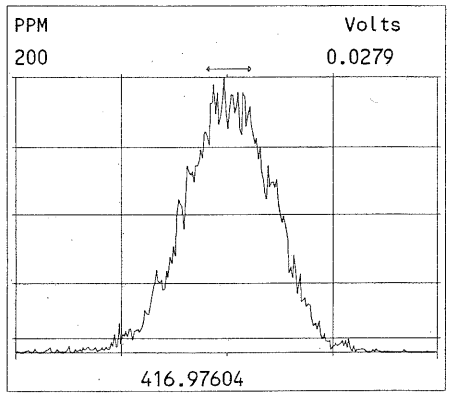


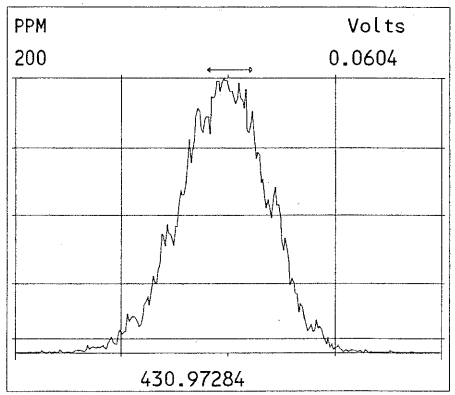


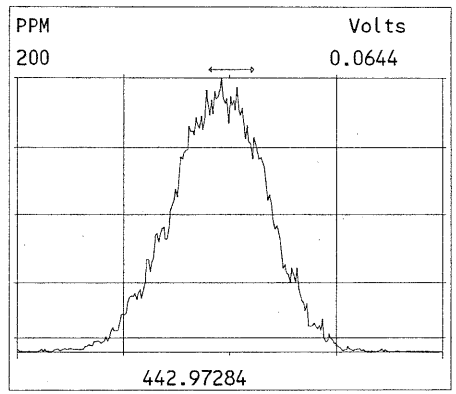




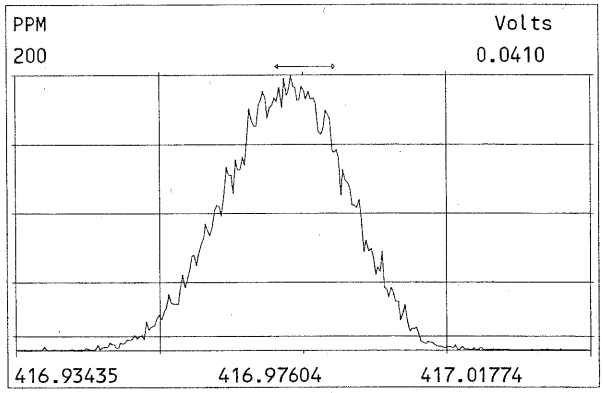


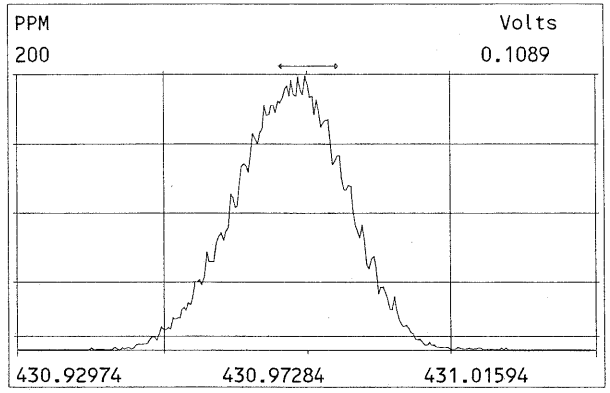


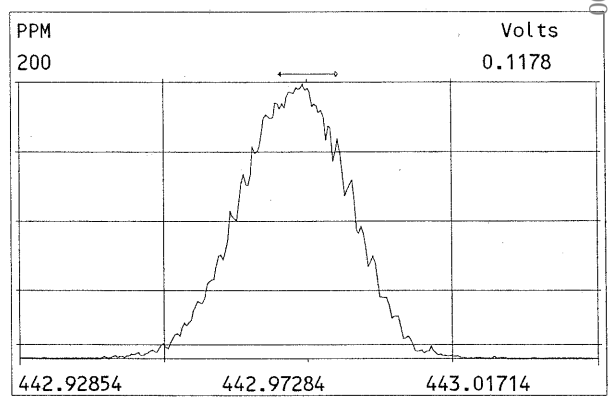


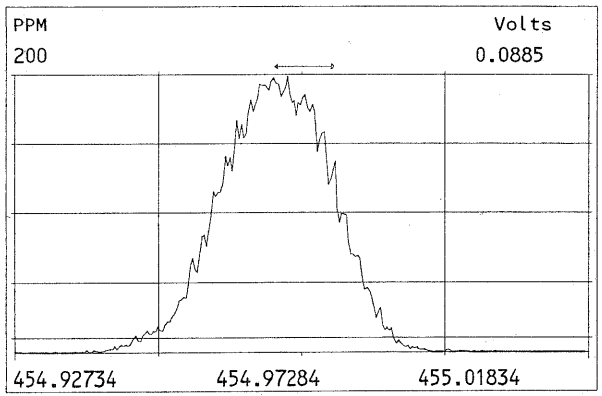


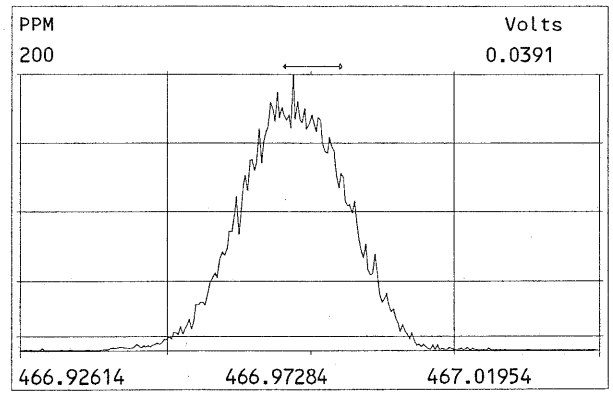
Peak Locate Examination:27-JUL-2018:08:52 File:27JUL18Z
Experiment:1668PCB Function:6 Reference:PFK

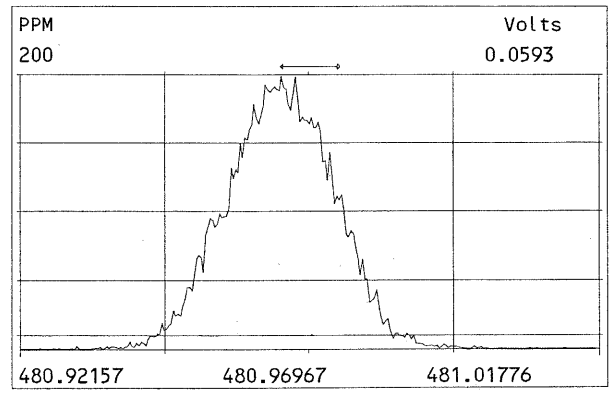


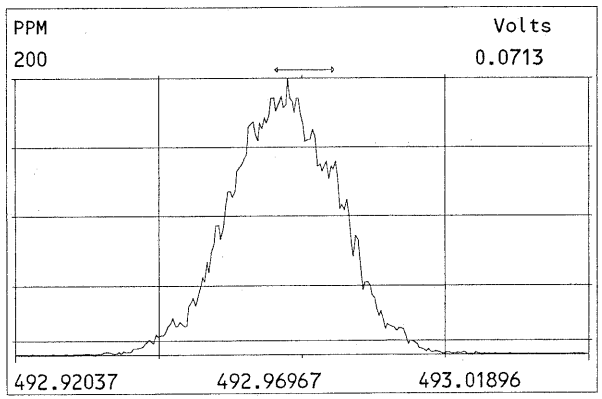


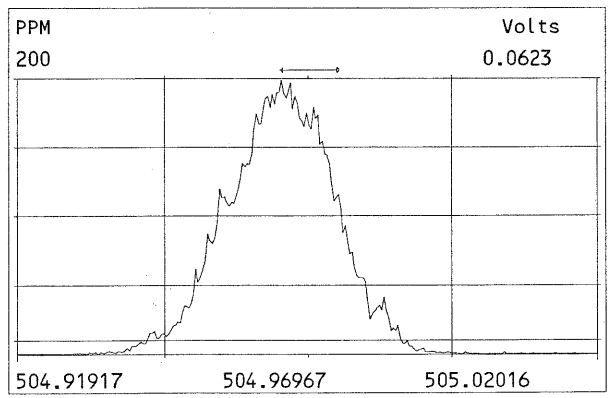


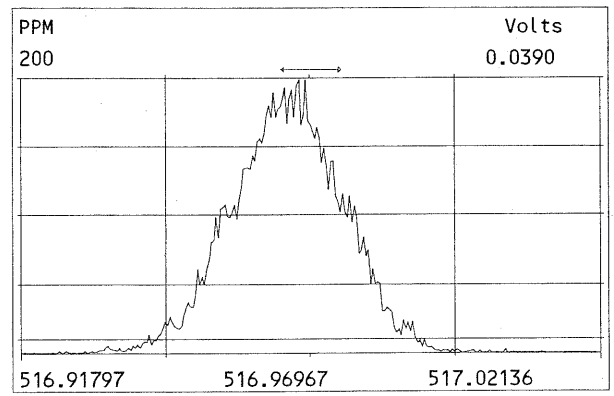












File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
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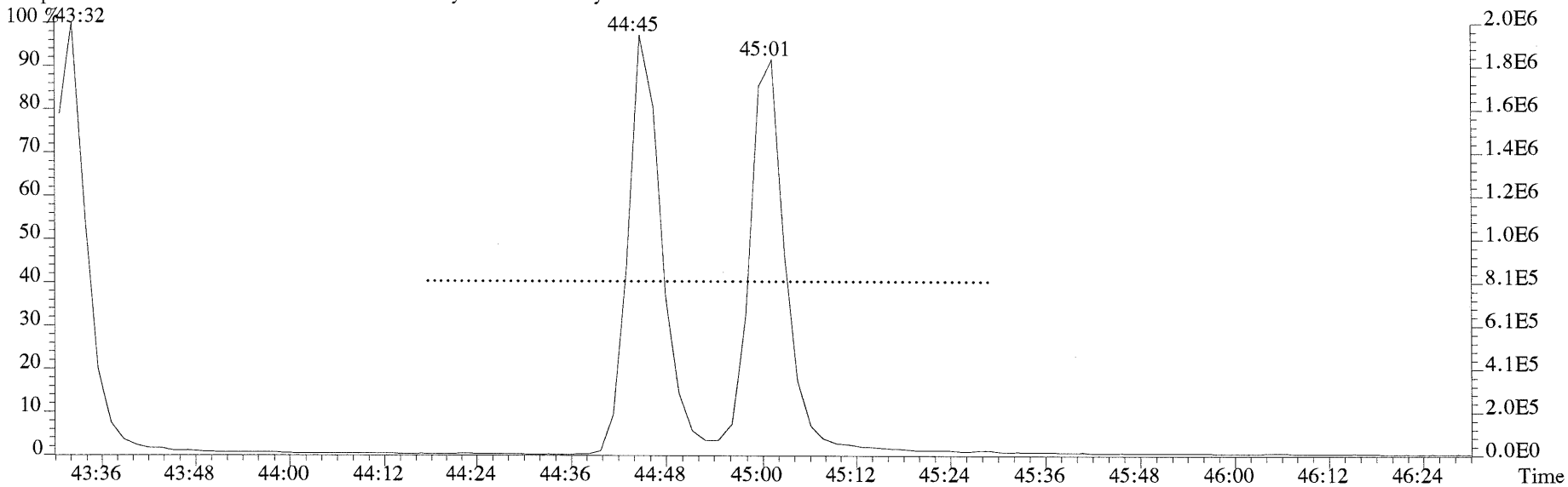
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



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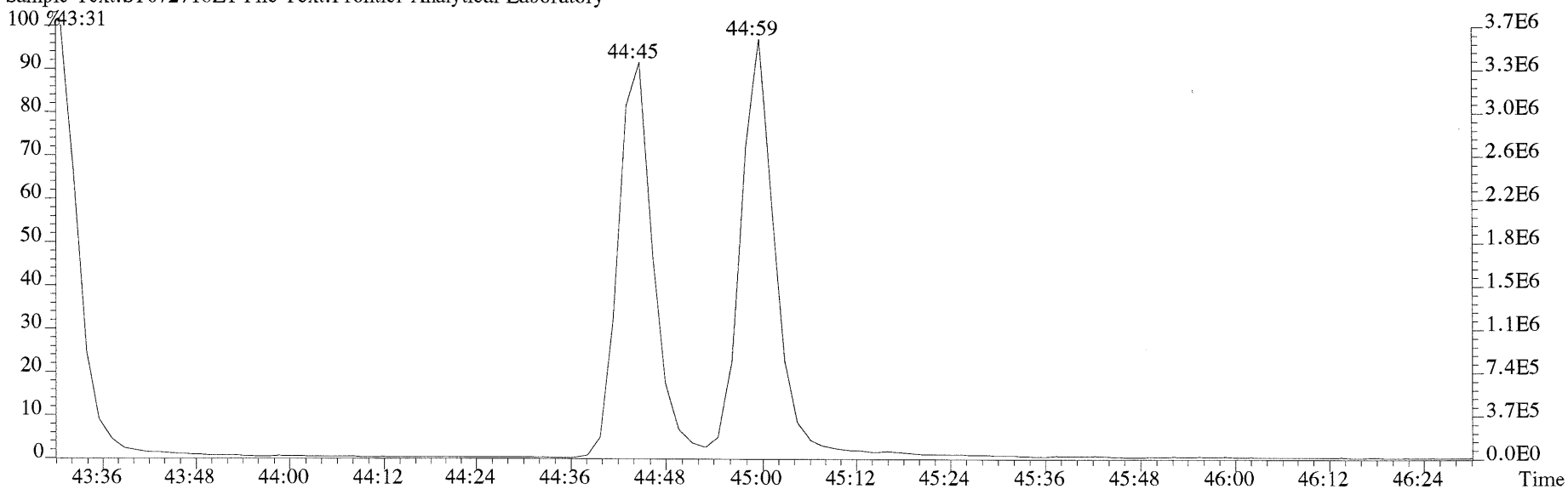
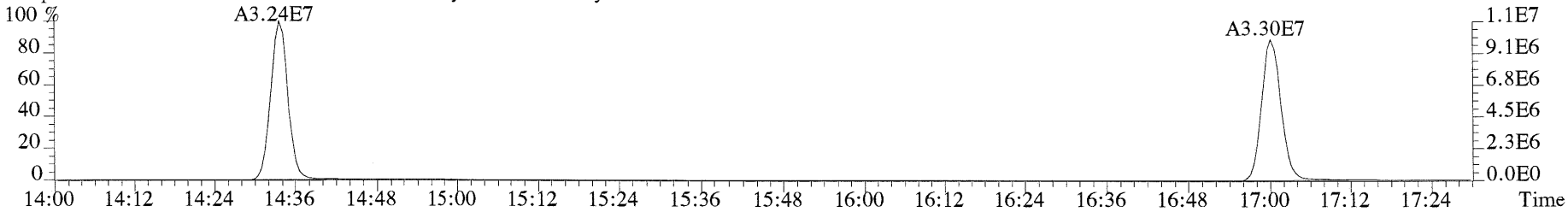
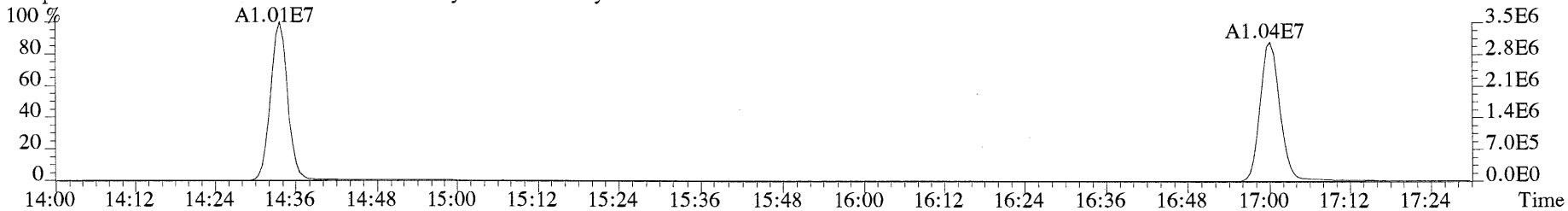


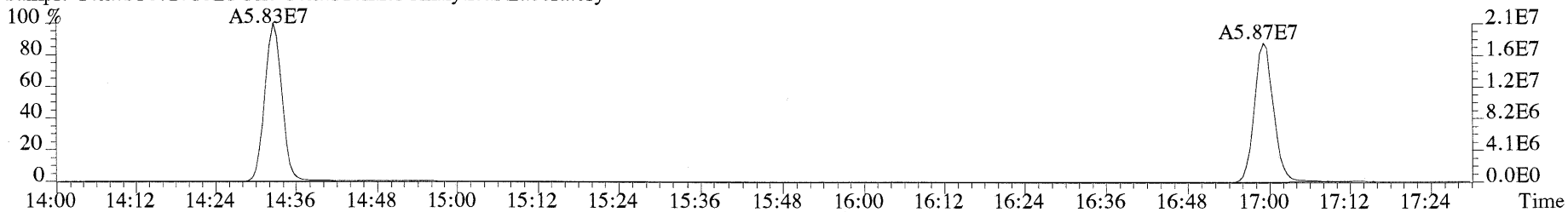
File:27JUL18Z #1-784 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



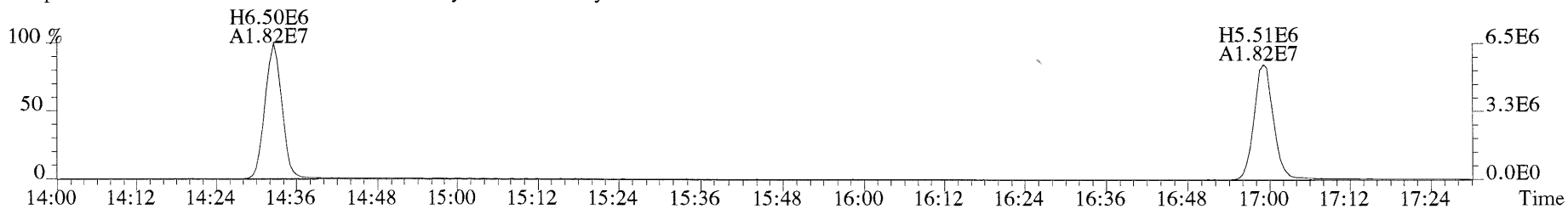
File:27JUL18Z #1-784 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



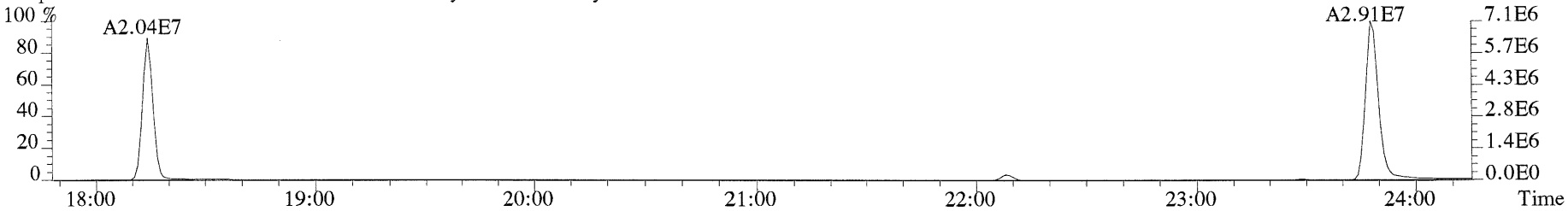
File:27JUL18Z #1-784 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



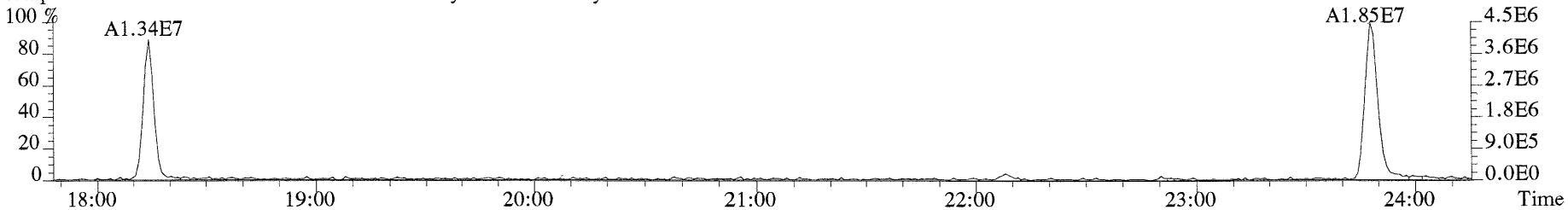
File:27JUL18Z #1-784 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



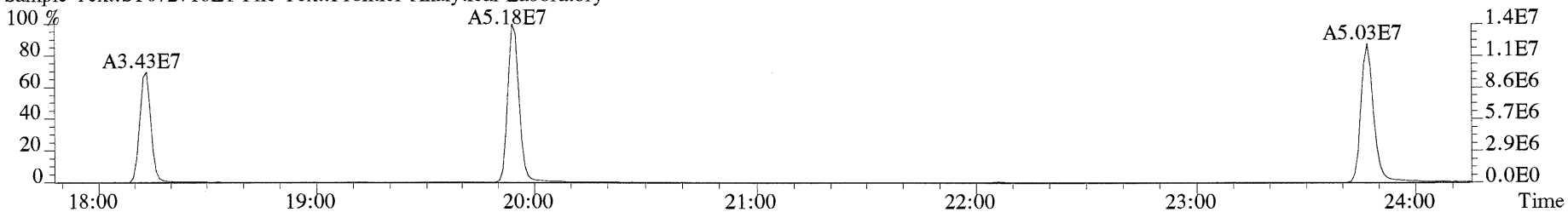
File:27JUL18Z #1-520 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



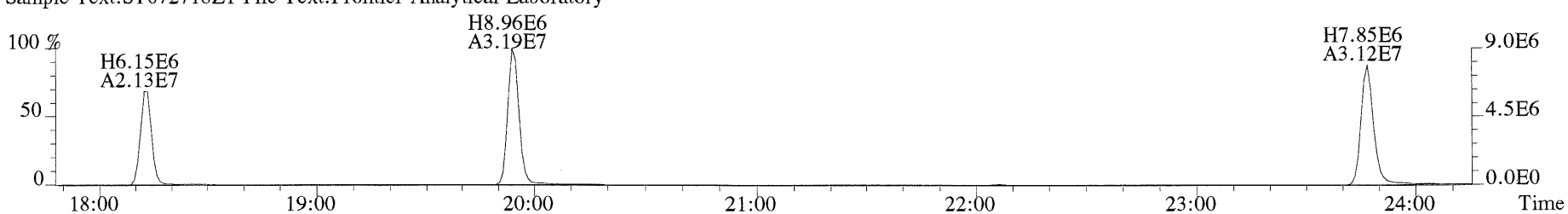
File:27JUL18Z #1-520 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



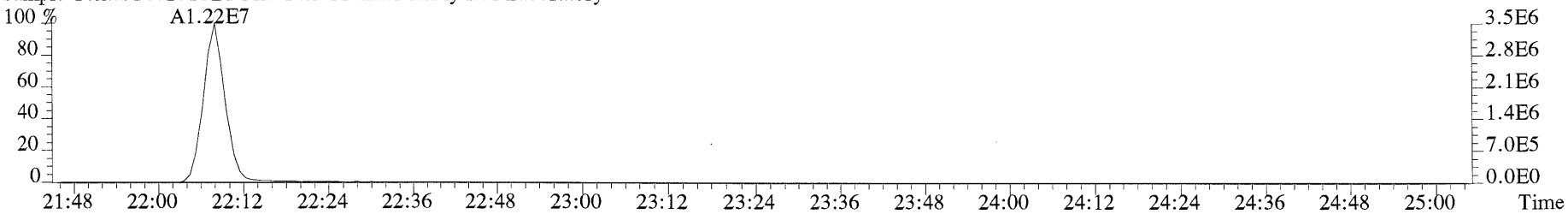
File:27JUL18Z #1-520 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



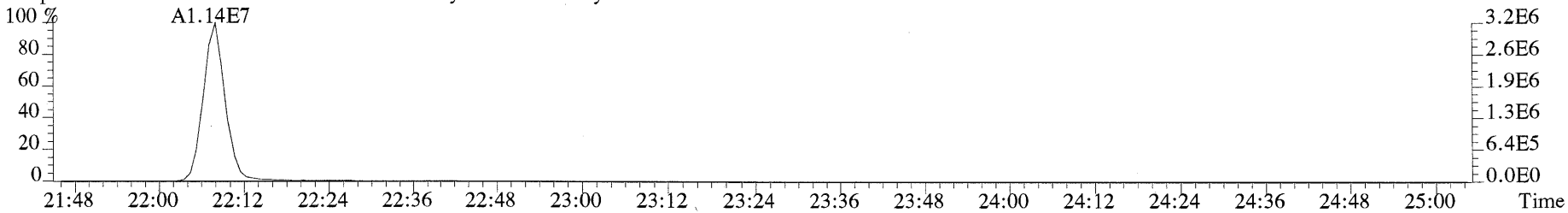
File:27JUL18Z #1-520 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



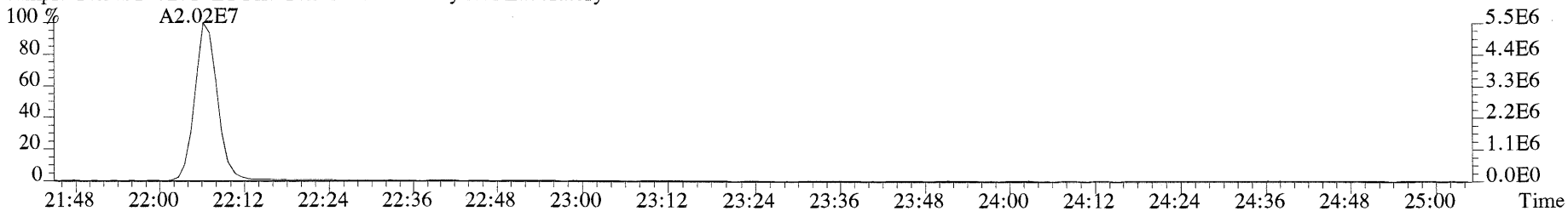
File:27JUL18Z #1-520 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



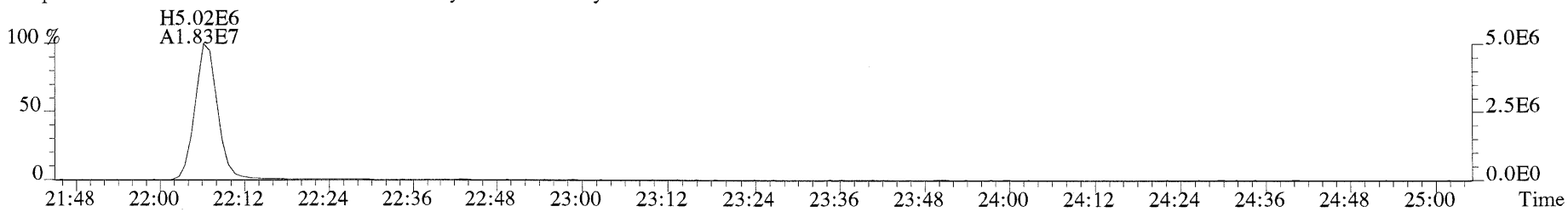
File:27JUL18Z #1-520 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



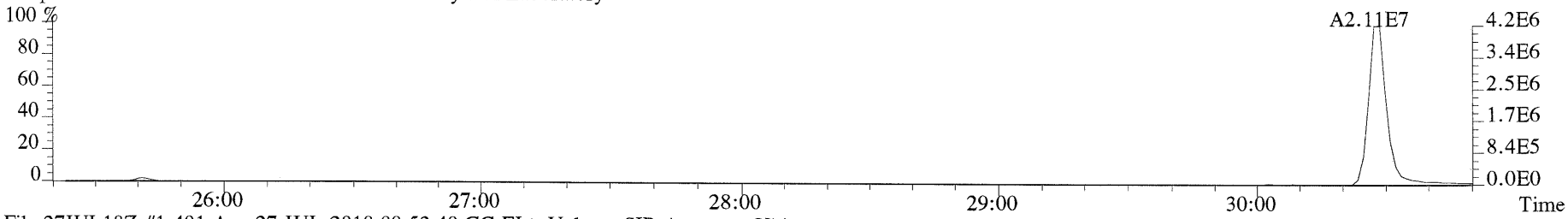
File:27JUL18Z #1-520 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



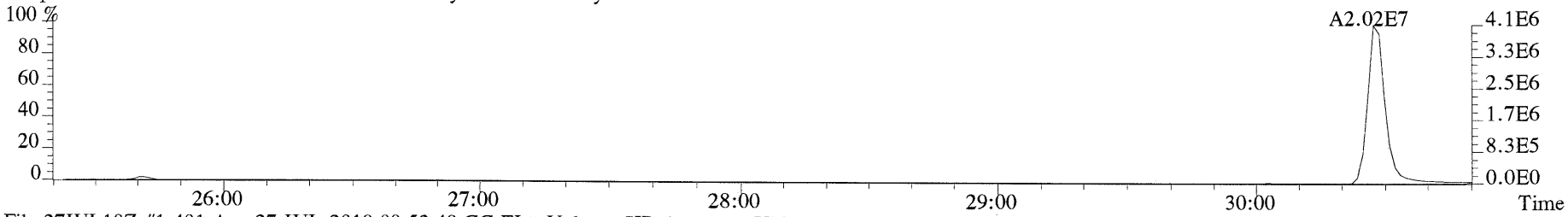
File:27JUL18Z #1-520 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



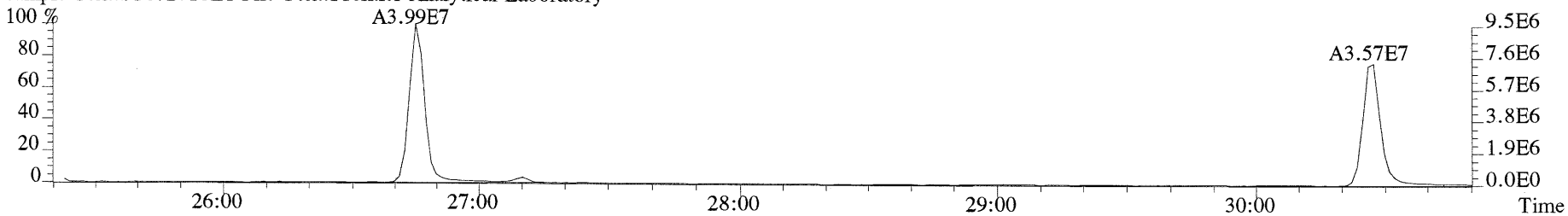
File:27JUL18Z #1-401 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



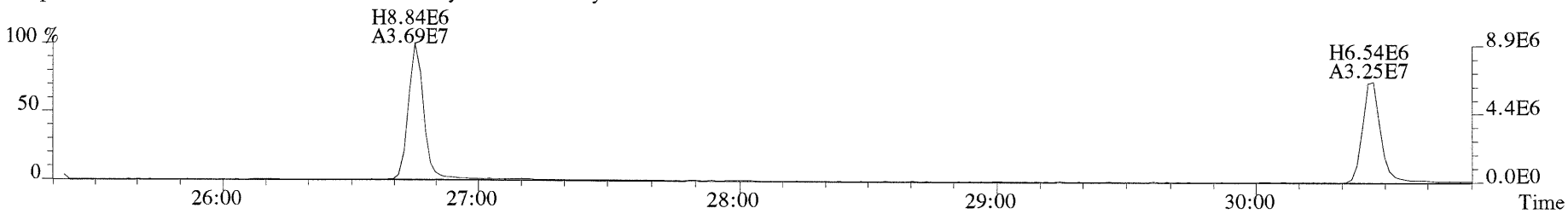
File:27JUL18Z #1-401 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



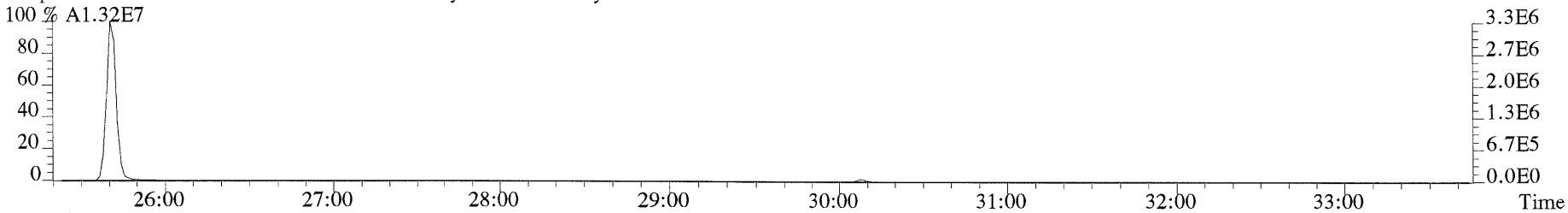
File:27JUL18Z #1-401 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



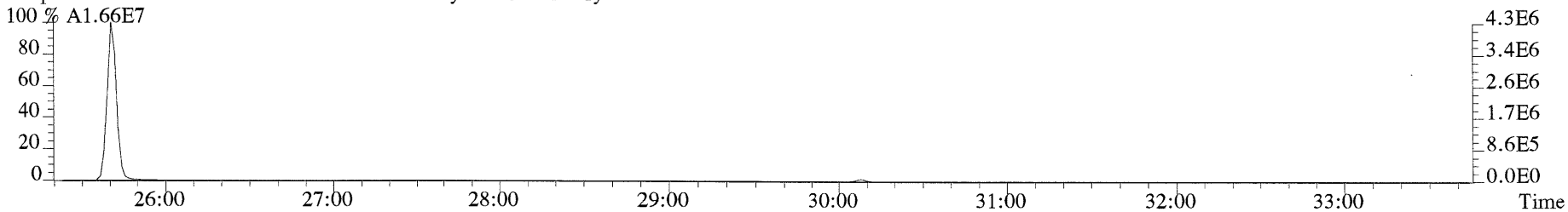
File:27JUL18Z #1-401 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



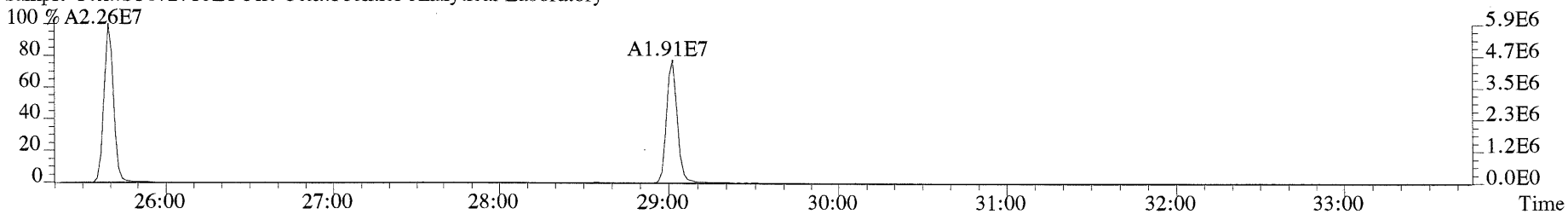
File:27JUL18Z #1-401 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



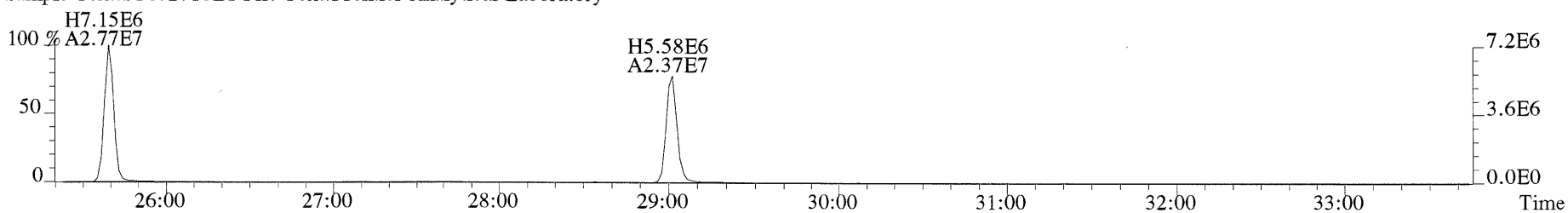
File:27JUL18Z #1-401 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



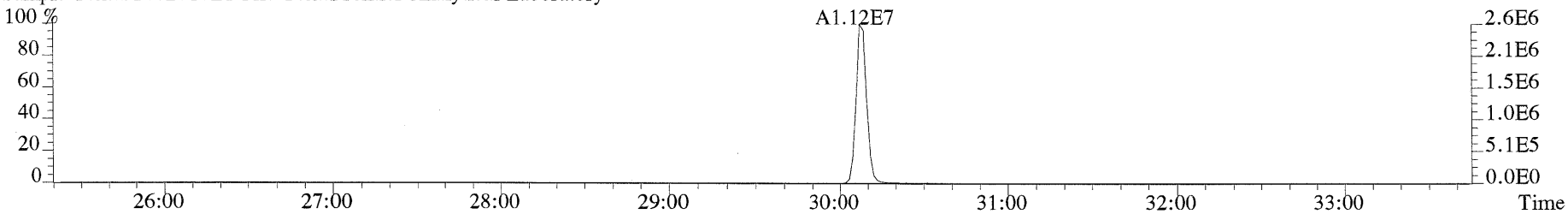
File:27JUL18Z #1-401 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



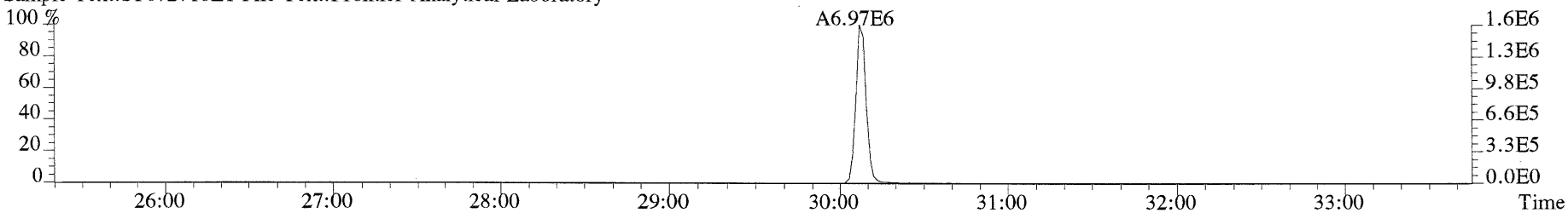
File:27JUL18Z #1-401 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



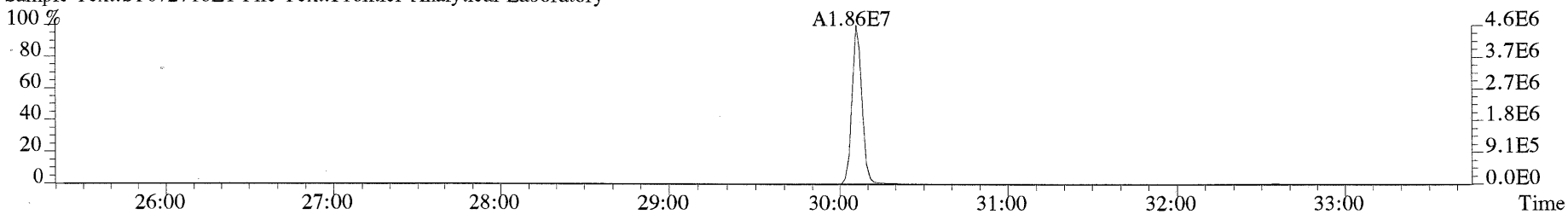
File:27JUL18Z #1-401 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



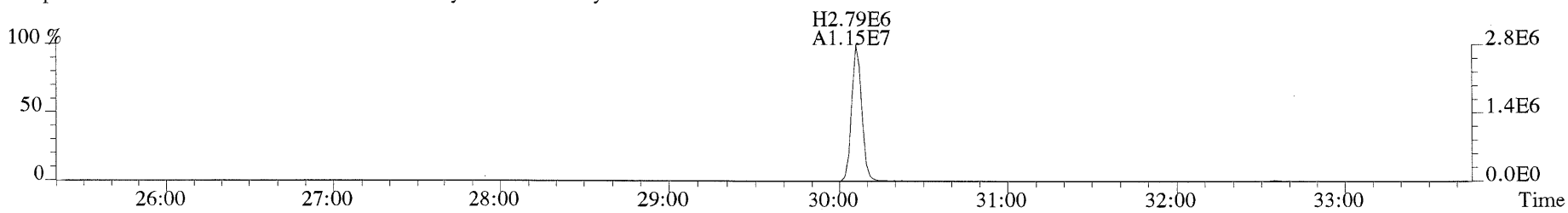
File:27JUL18Z #1-401 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



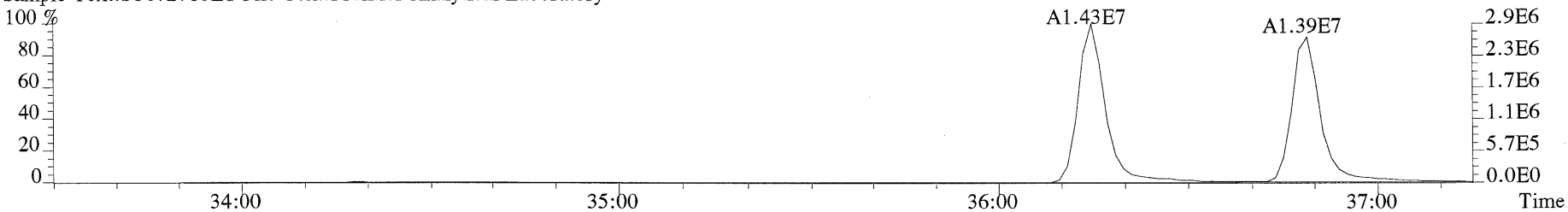
File:27JUL18Z #1-401 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



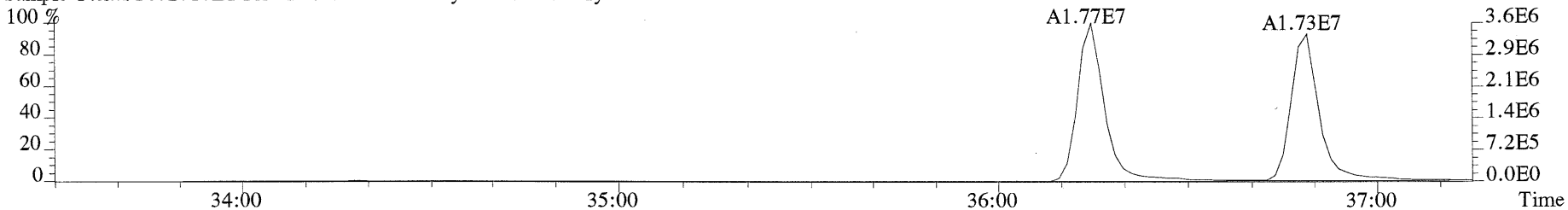
File:27JUL18Z #1-401 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



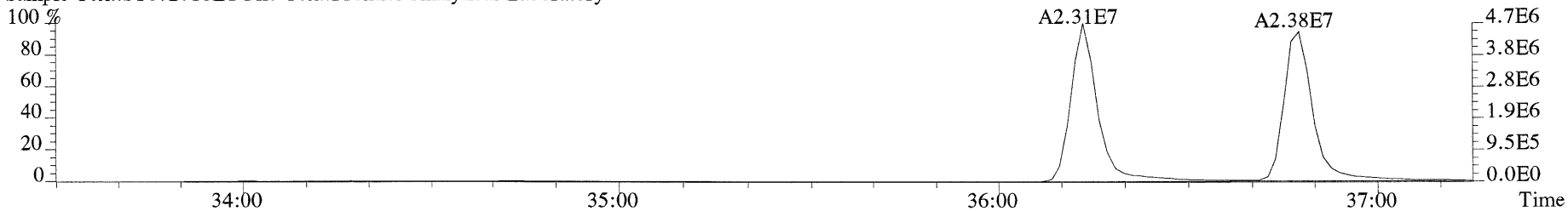
File:27JUL18Z #1-183 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



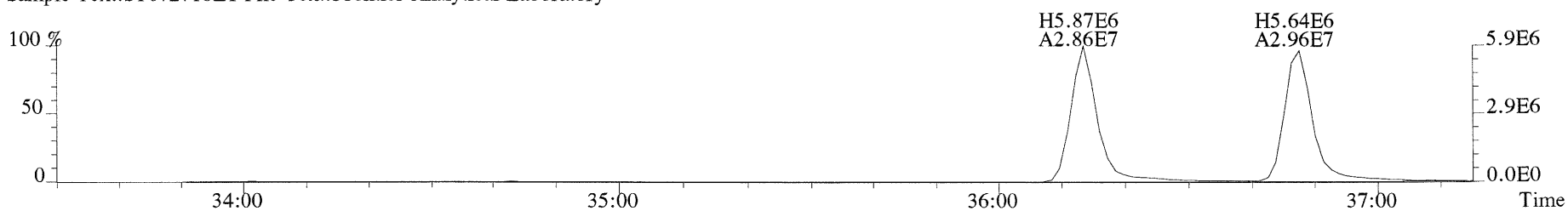
File:27JUL18Z #1-183 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



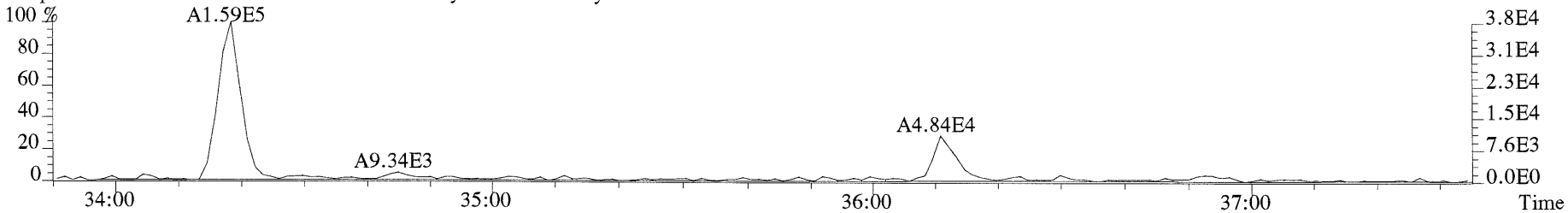
File:27JUL18Z #1-183 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



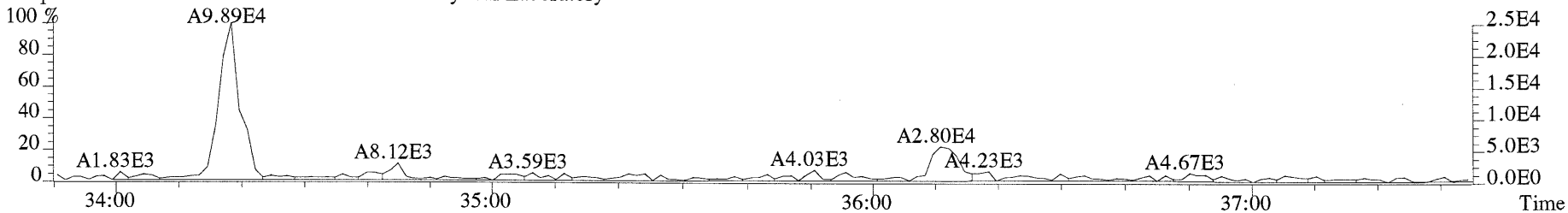
File:27JUL18Z #1-183 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



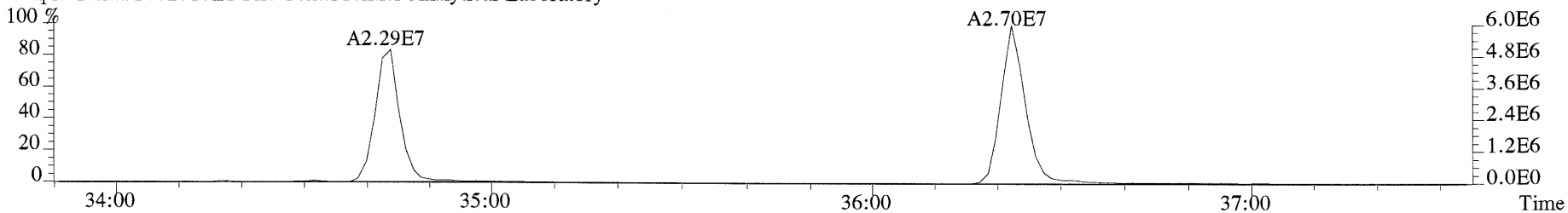
File:27JUL18Z #1-183 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



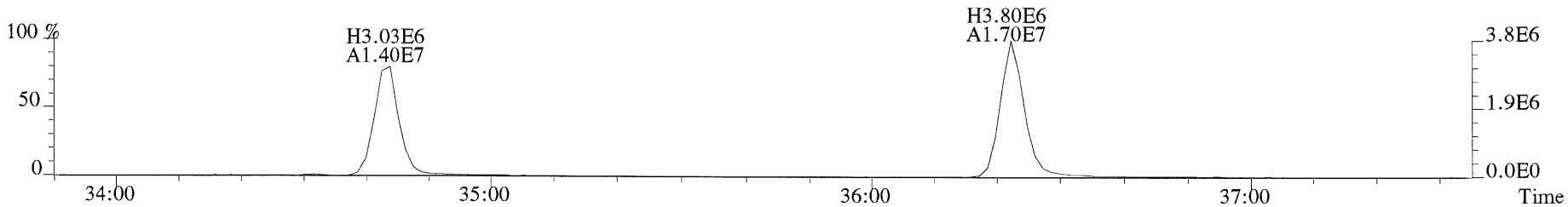
File:27JUL18Z #1-183 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



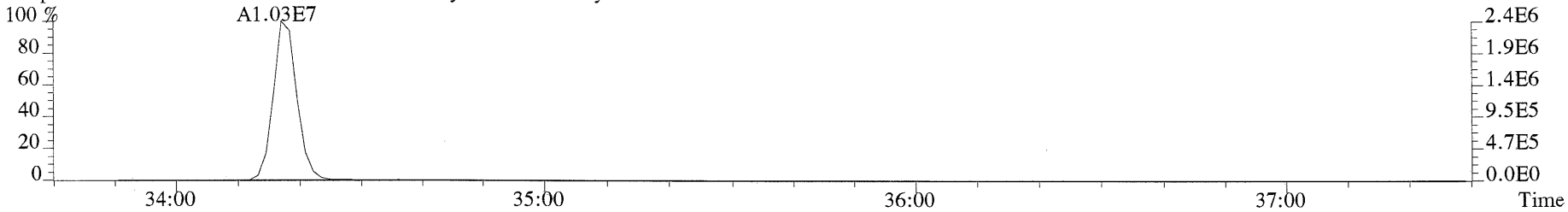
File:27JUL18Z #1-183 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



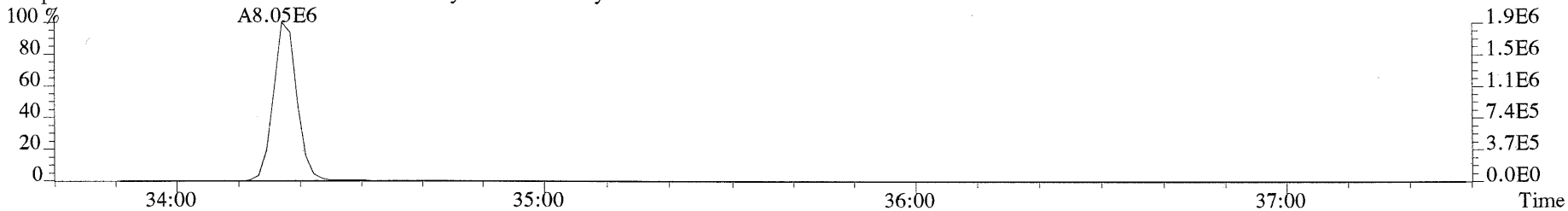
File:27JUL18Z #1-183 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



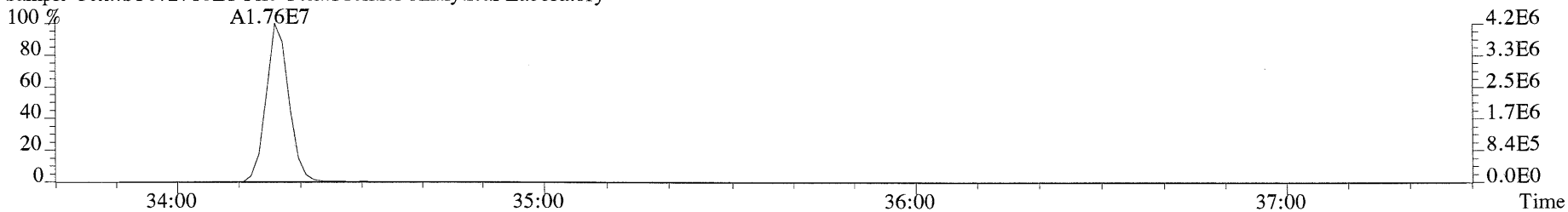
File:27JUL18Z #1-183 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



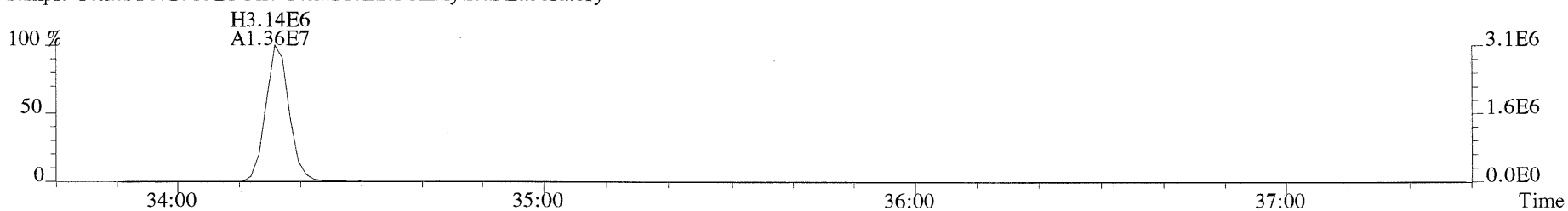
File:27JUL18Z #1-183 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



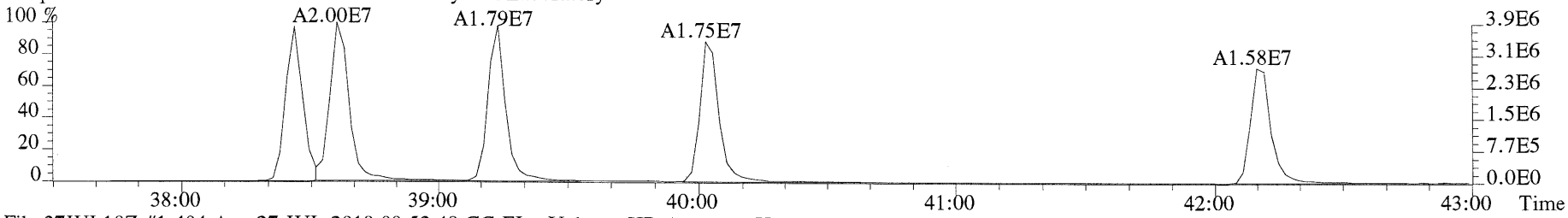
File:27JUL18Z #1-183 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



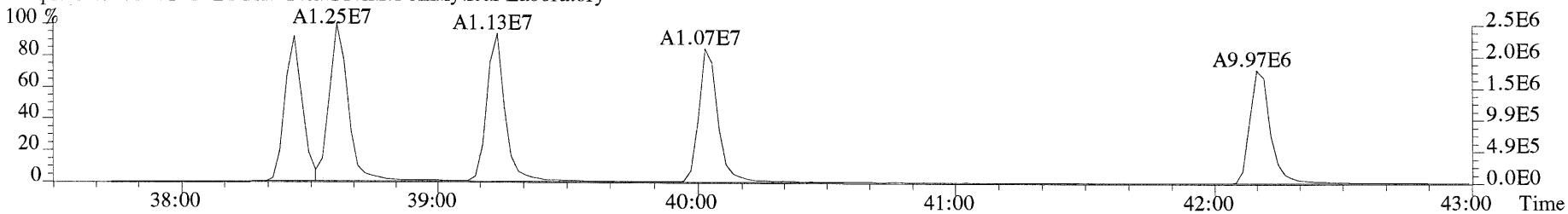
File:27JUL18Z #1-183 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



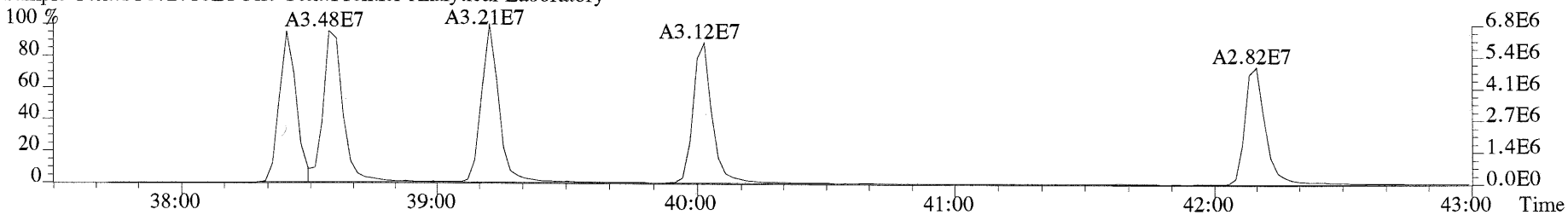
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



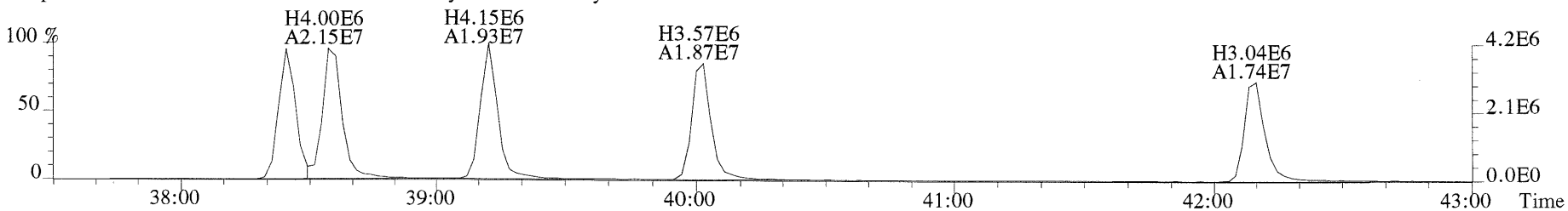
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



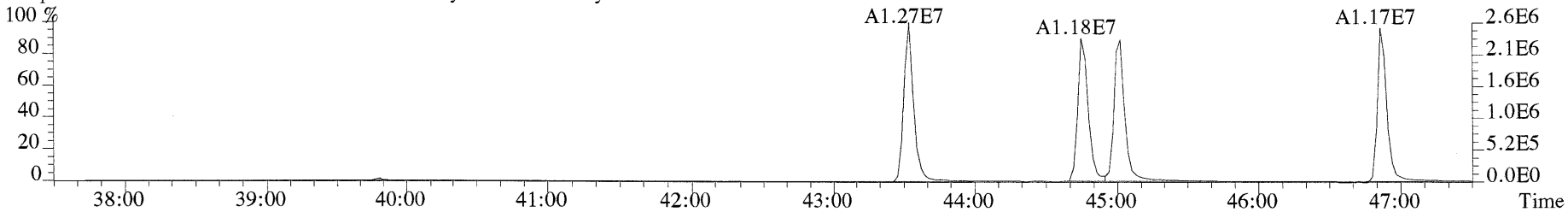
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



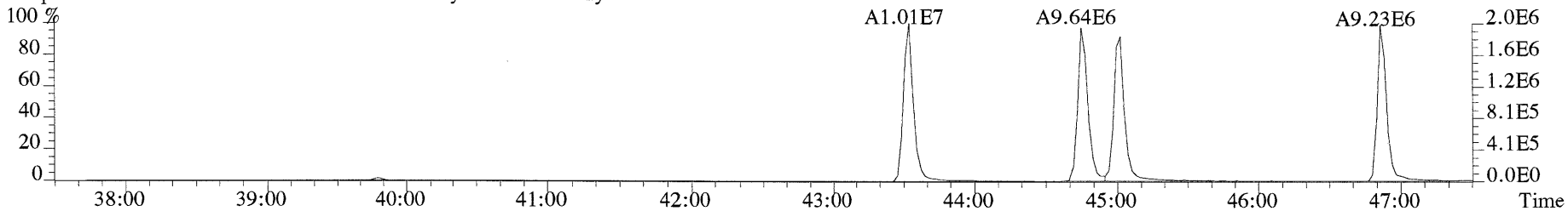
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



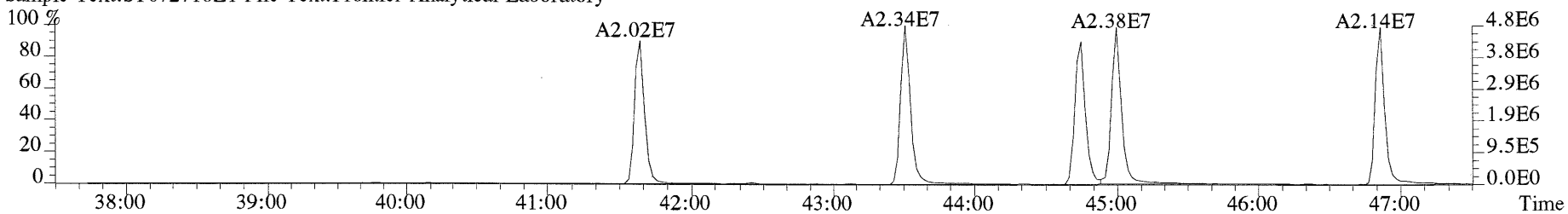
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



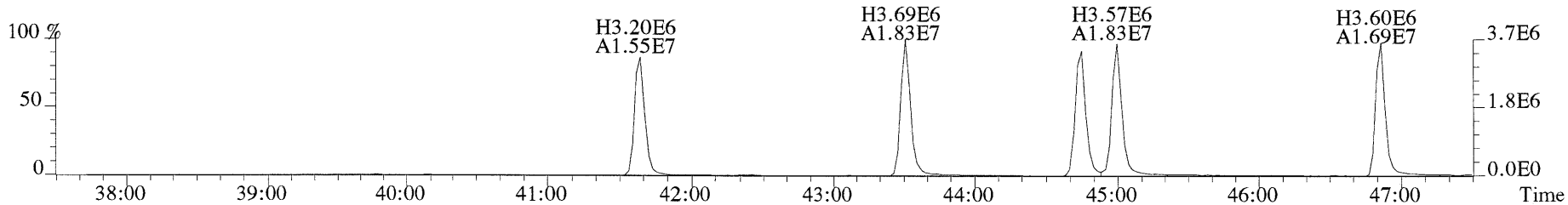
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



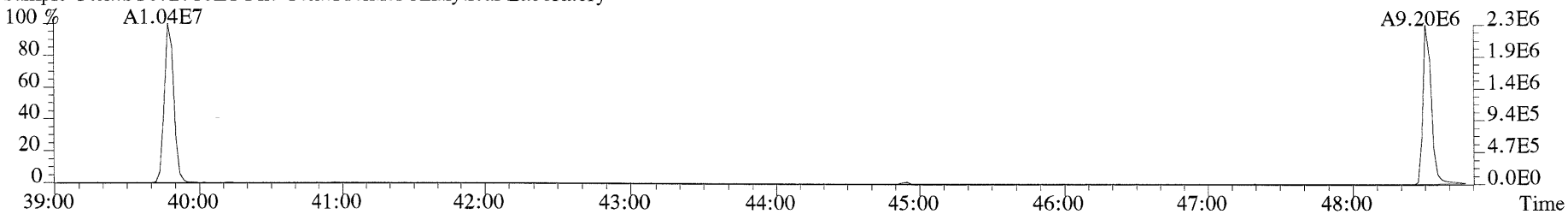
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



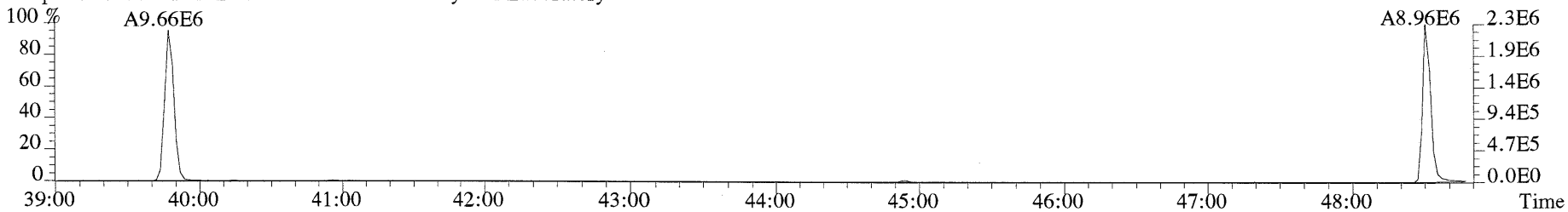
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



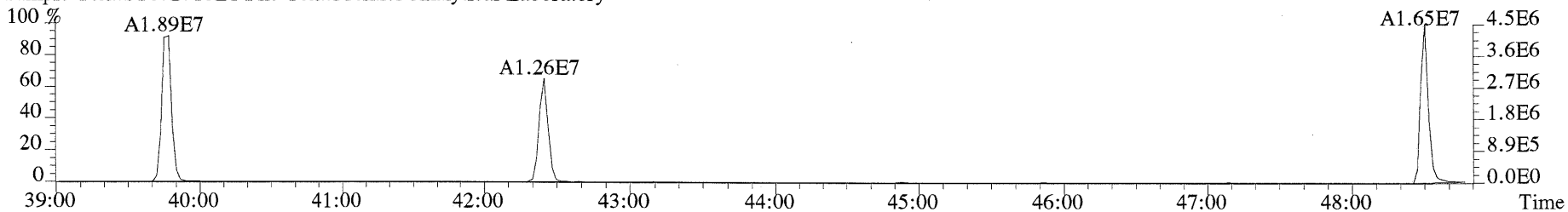
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



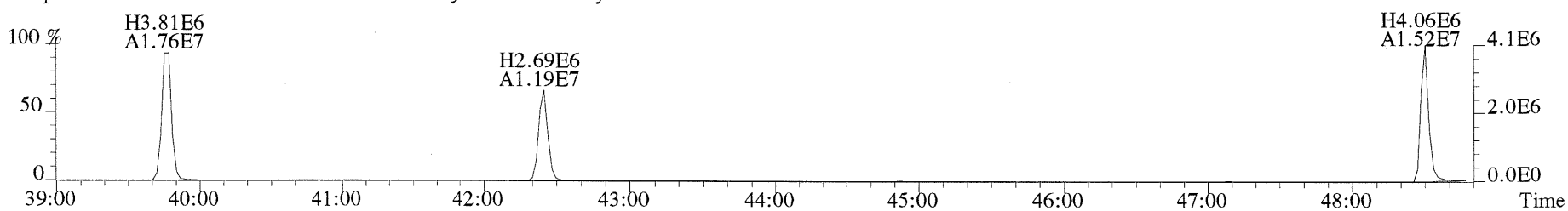
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



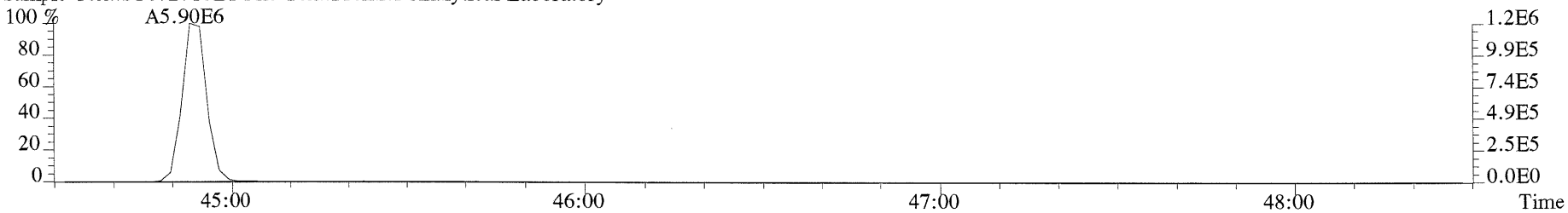
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



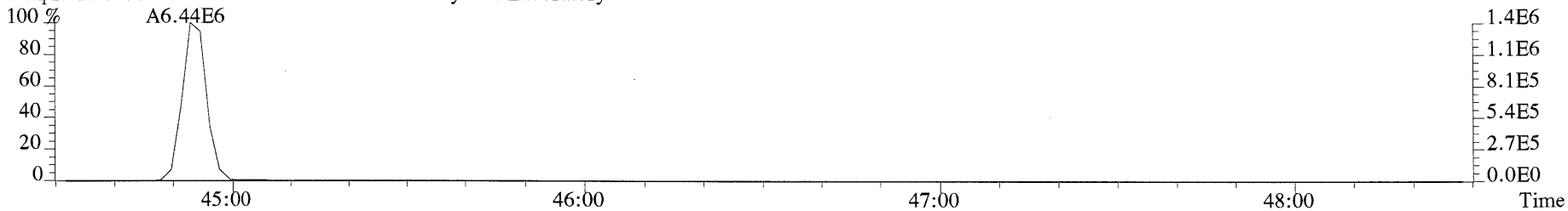
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



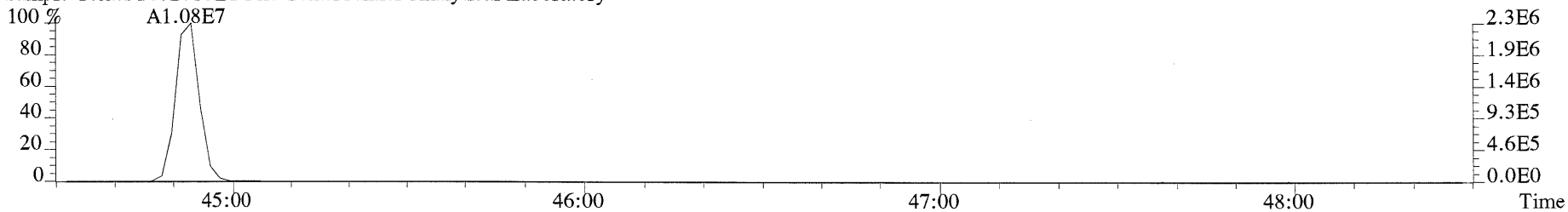
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



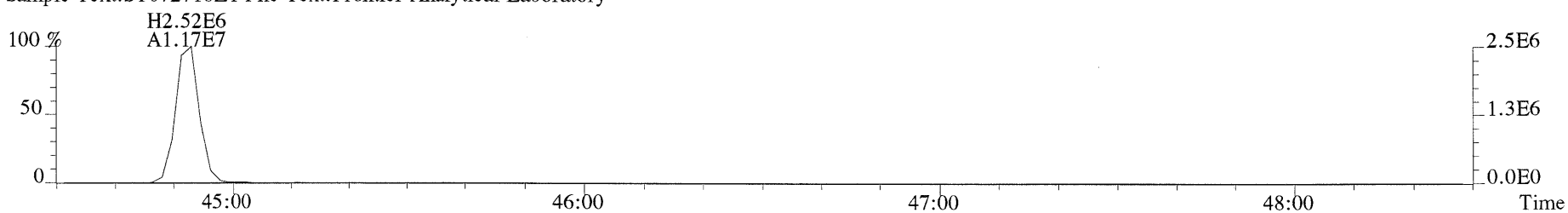
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



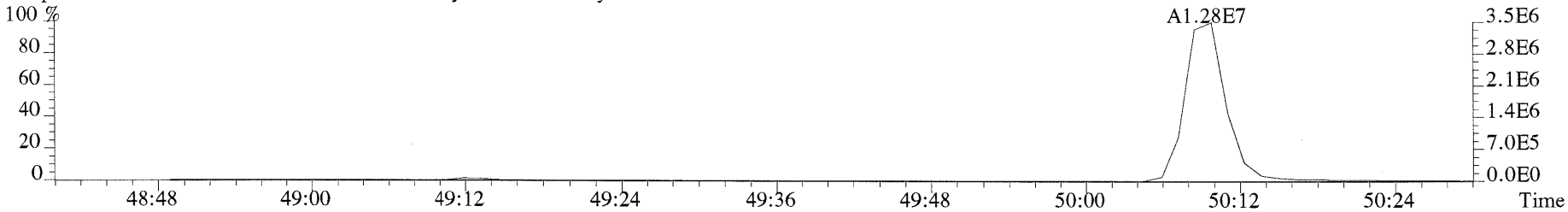
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



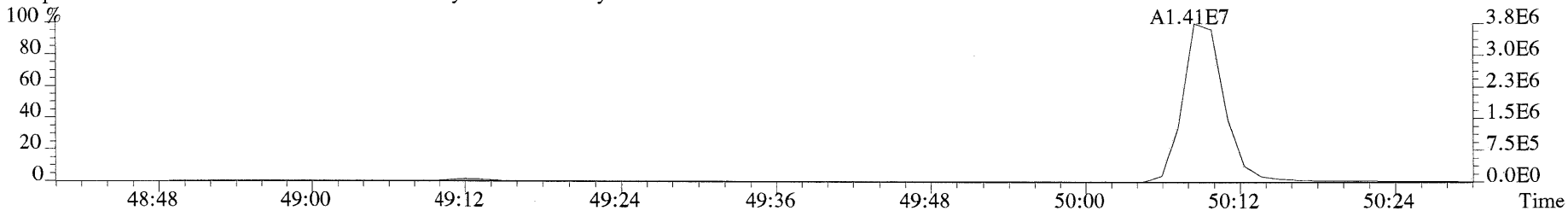
File:27JUL18Z #1-404 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



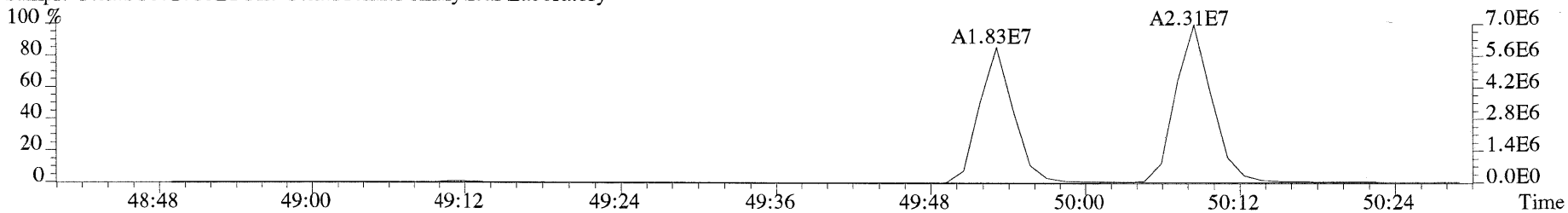
File:27JUL18Z #1-314 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



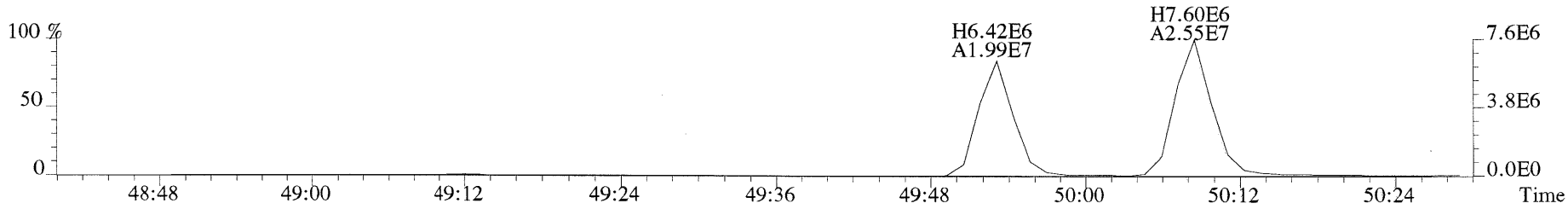
File:27JUL18Z #1-314 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



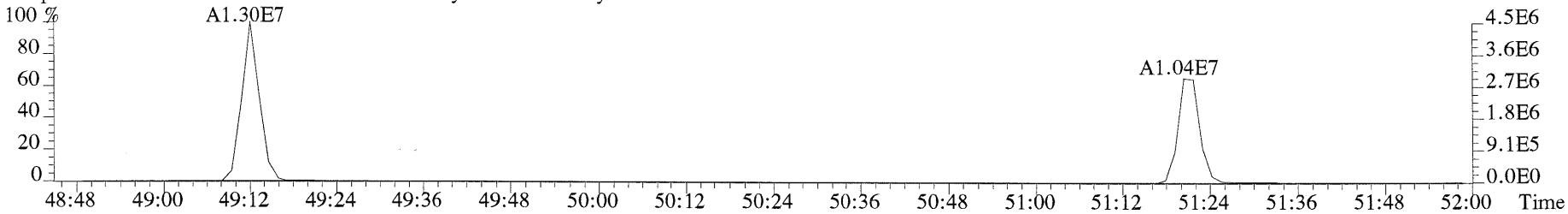
File:27JUL18Z #1-314 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



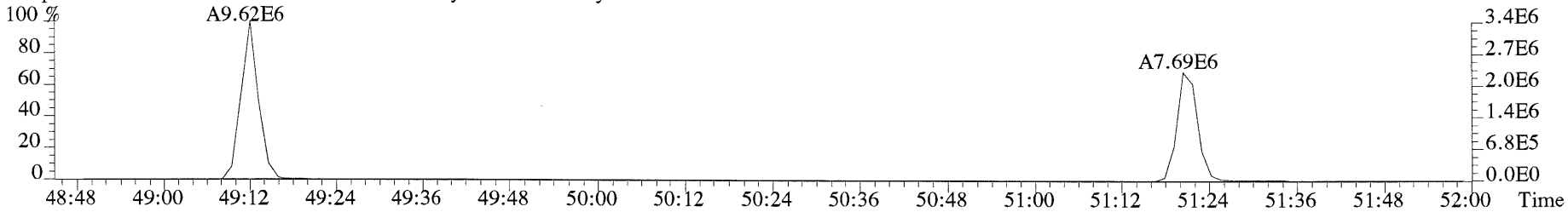
File:27JUL18Z #1-314 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



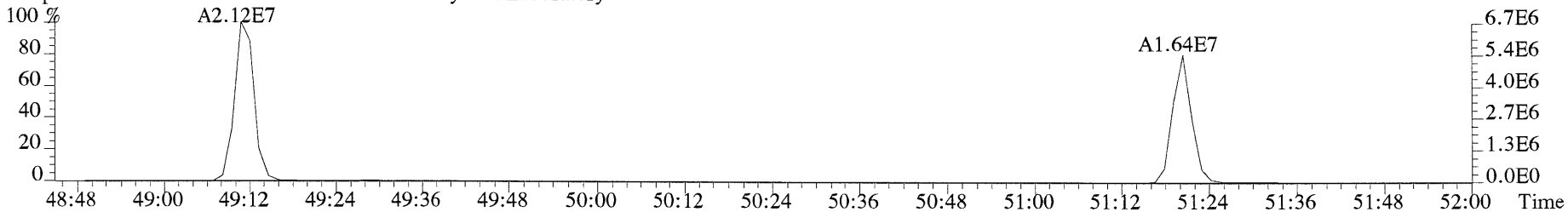
File:27JUL18Z #1-314 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



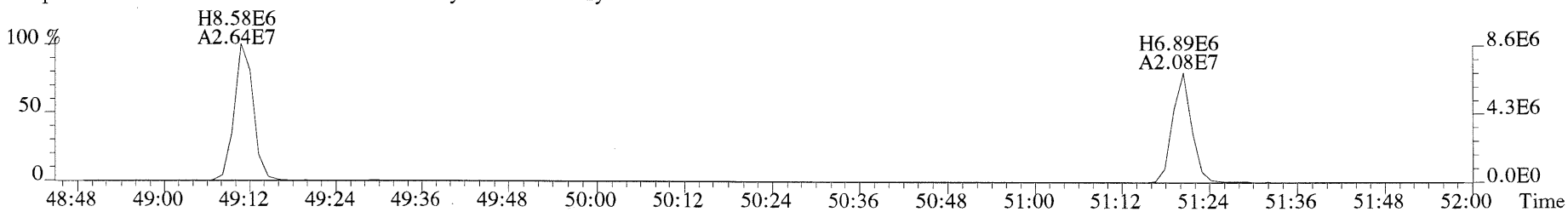
File:27JUL18Z #1-314 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



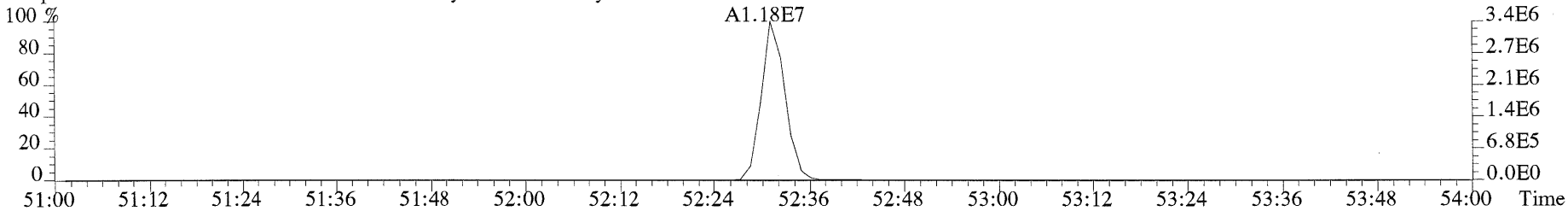
File:27JUL18Z #1-314 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



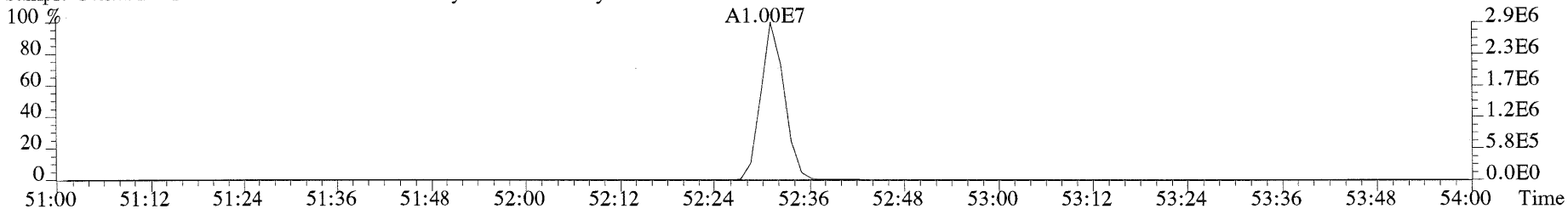
File:27JUL18Z #1-314 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



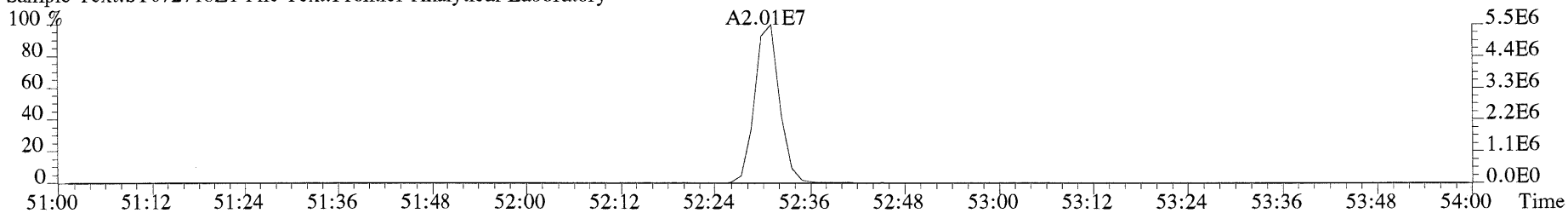
File:27JUL18Z #1-314 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



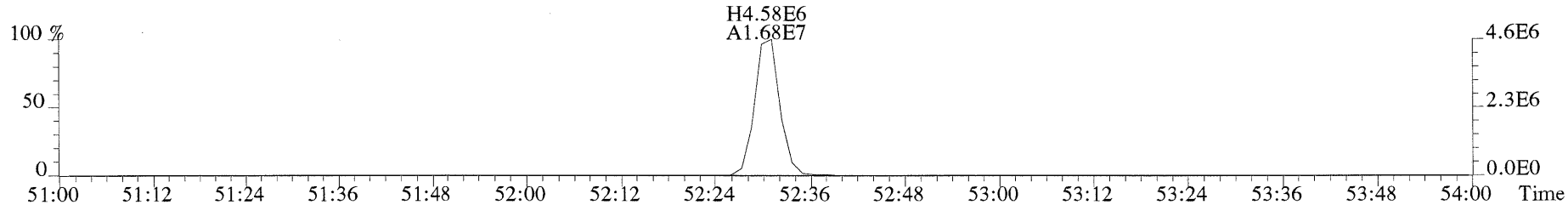
File:27JUL18Z #1-314 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory



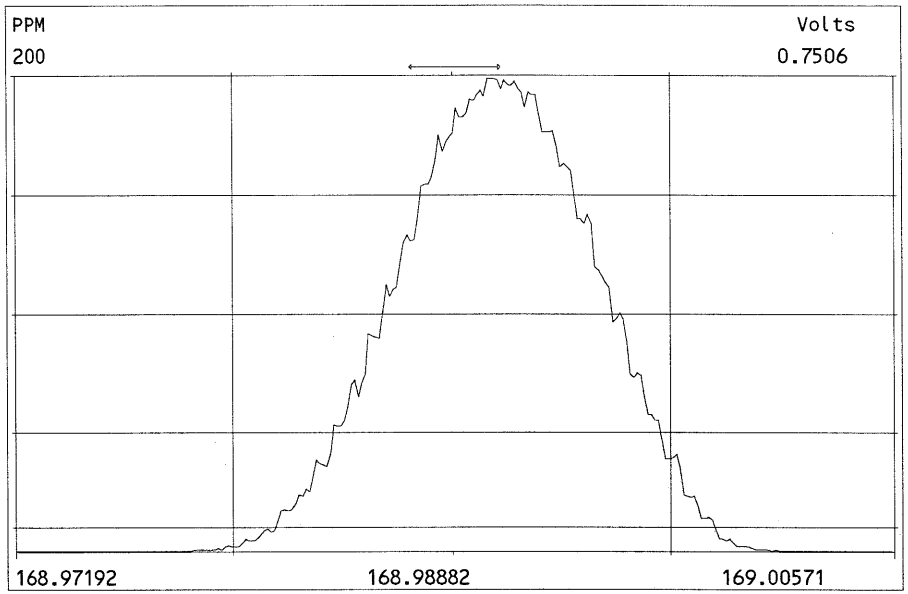
File:27JUL18Z #1-314 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory

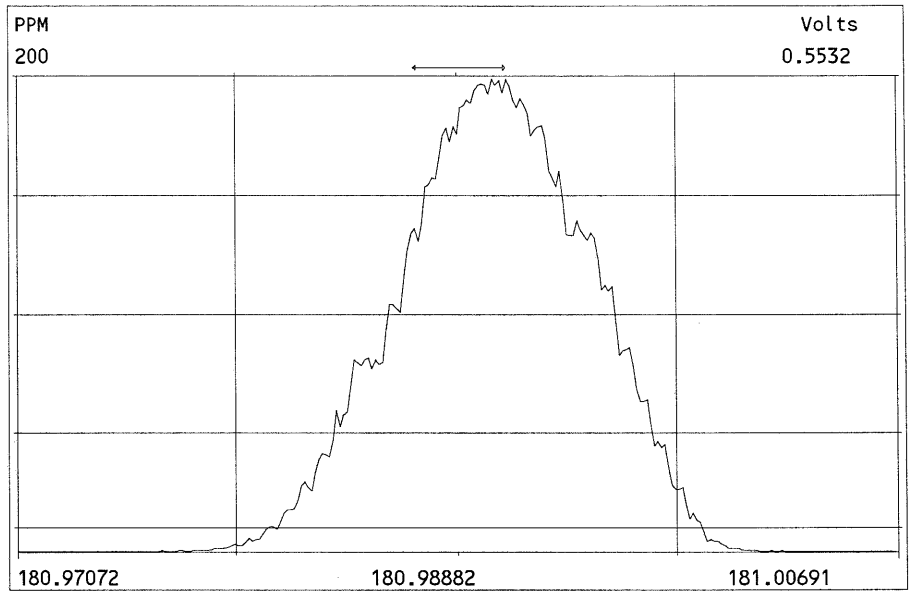


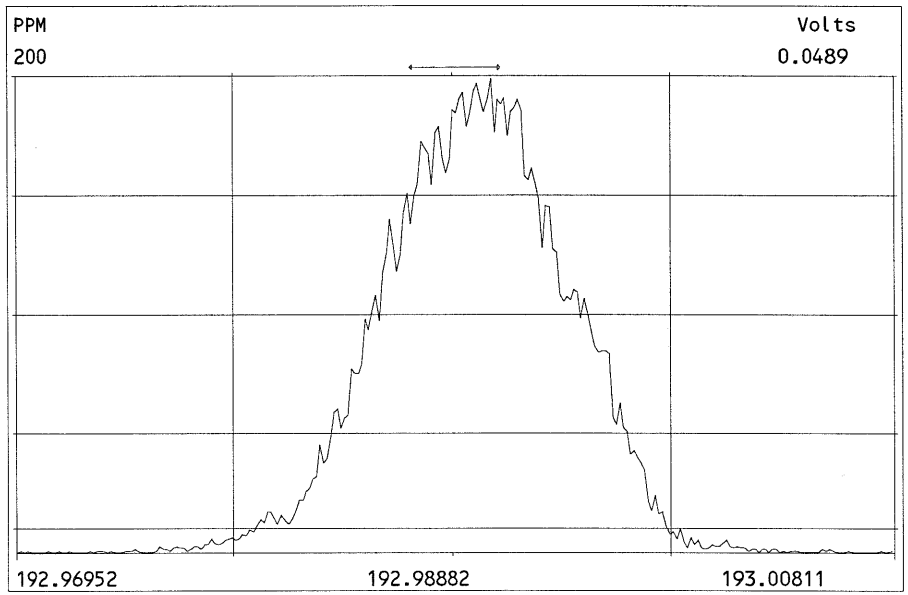
File:27JUL18Z #1-314 Acq:27-JUL-2018 08:52:48 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z1 File Text:Frontier Analytical Laboratory

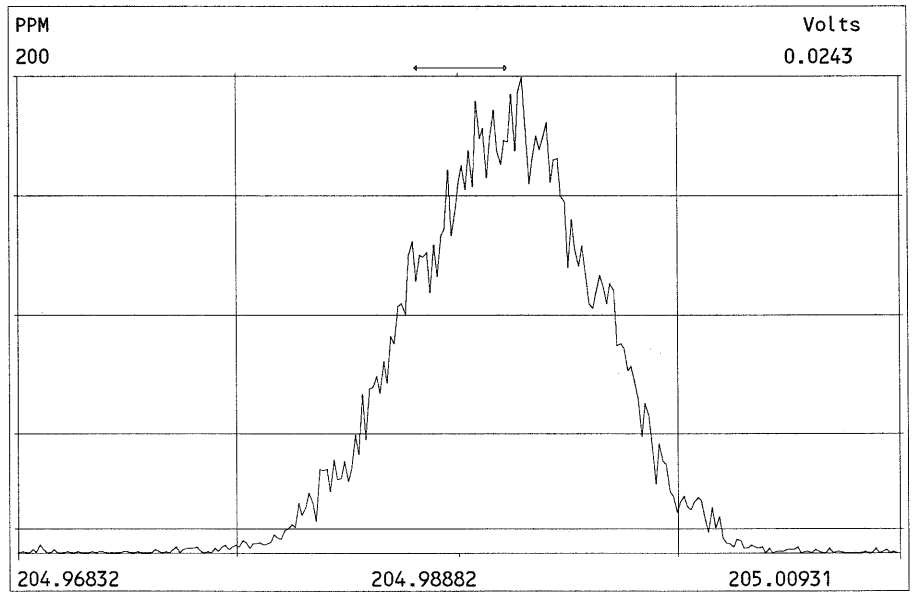


Peak Locate Examination:27-JUL-2018:23:58 File:27JUL18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

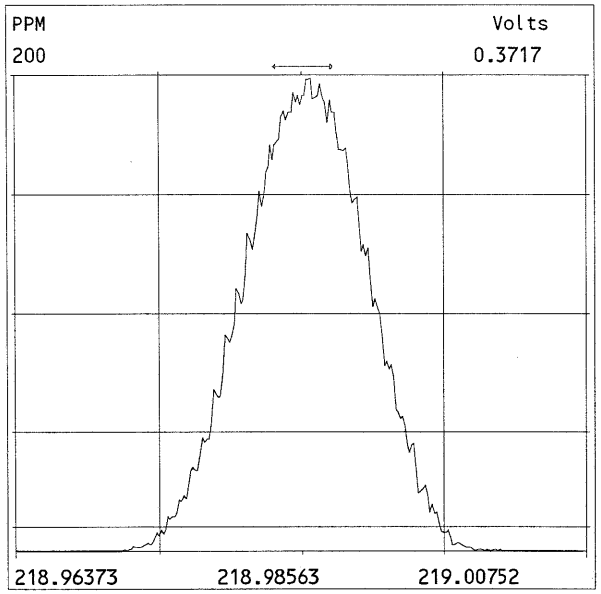


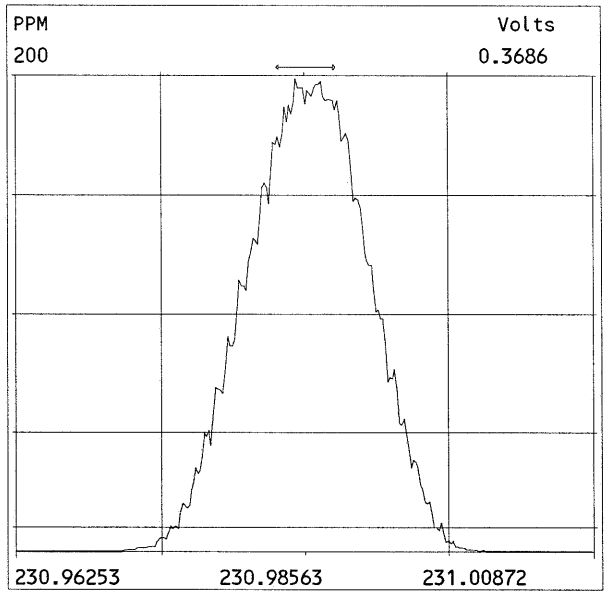


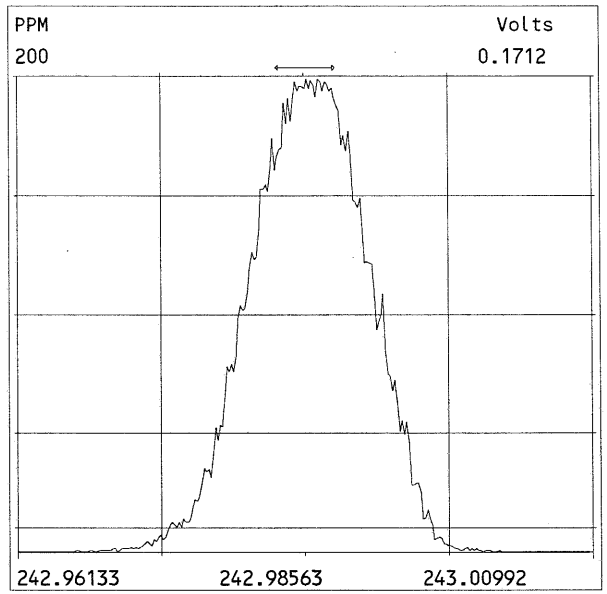


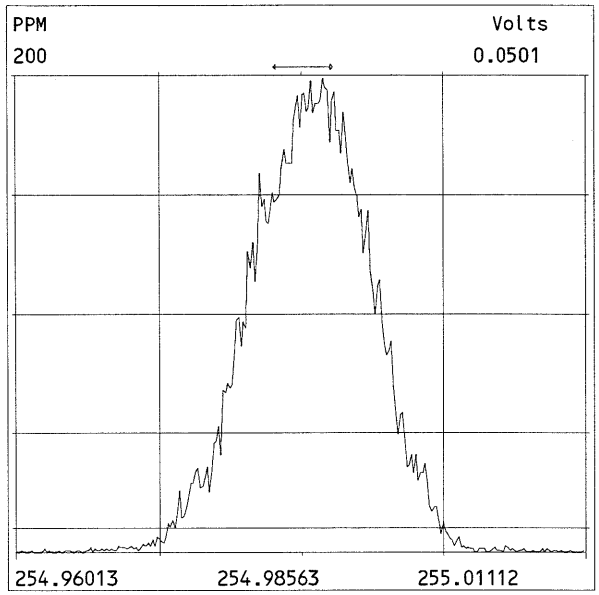


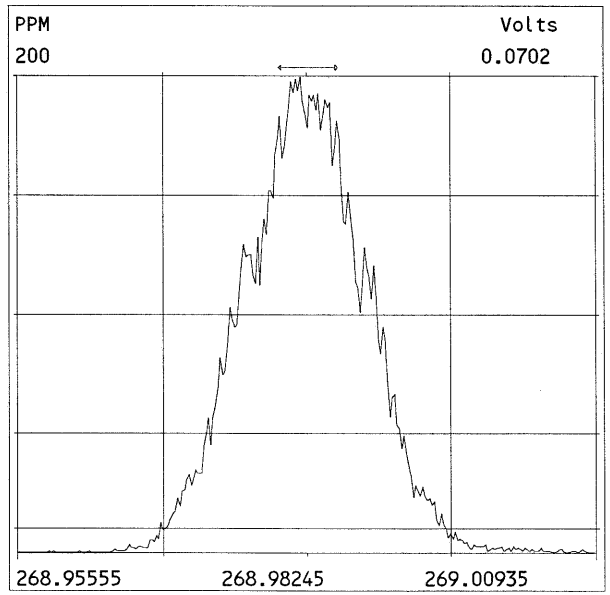
Peak Locate Examination:28-JUL-2018:00:00 File:27JUL18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

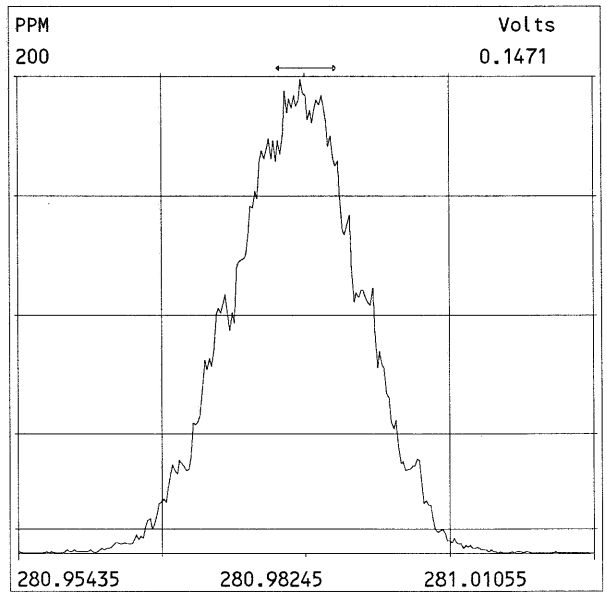




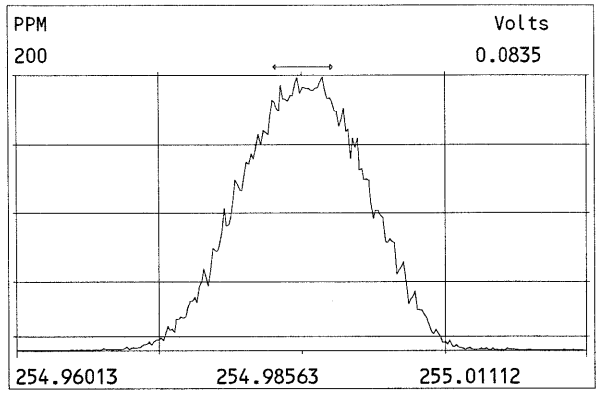


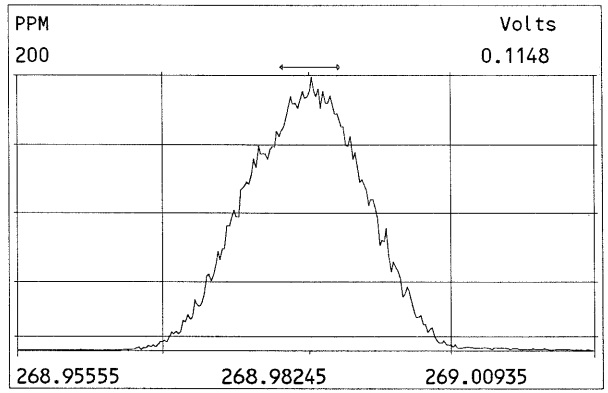


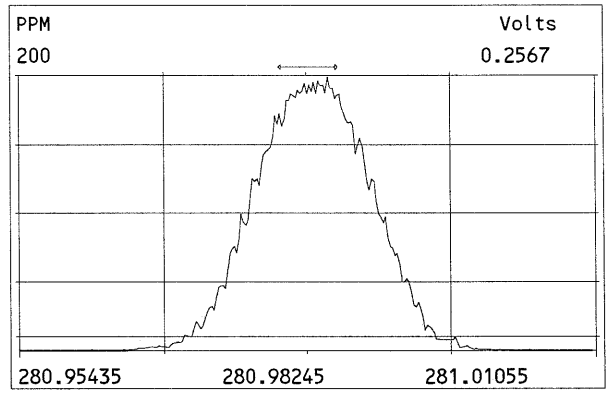


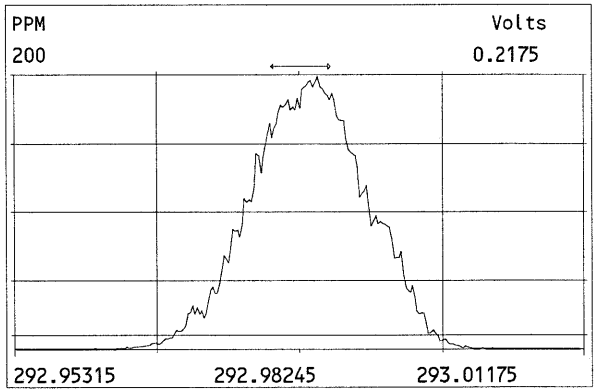


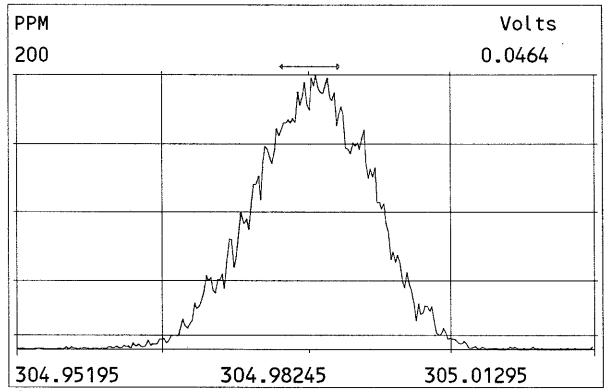
Peak Locate Examination:28-JUL-2018:00:03 File:27JUL18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

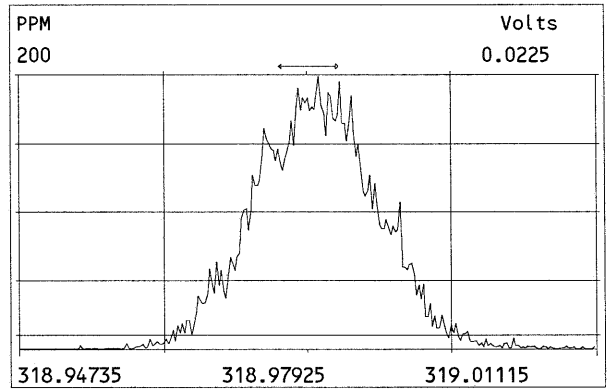


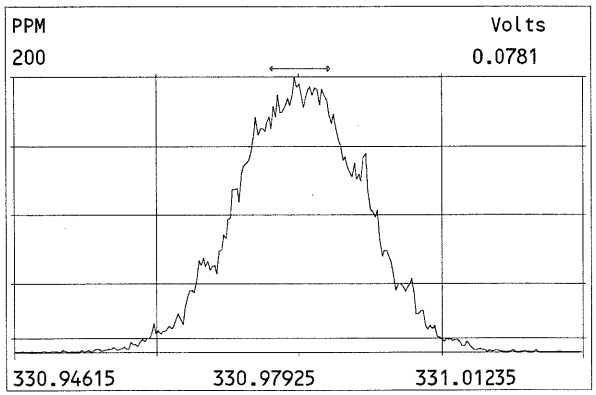


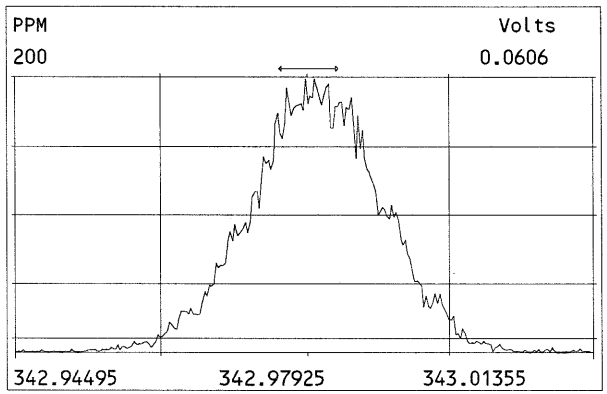




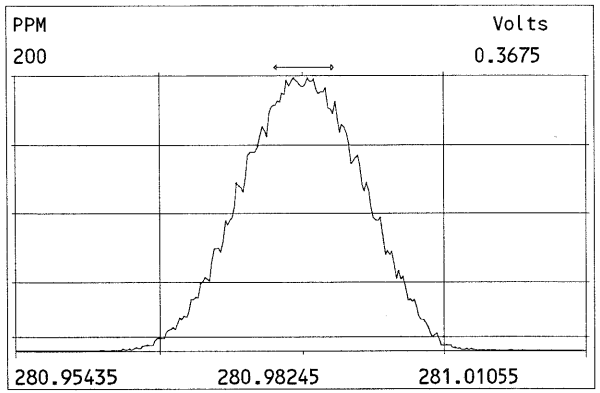


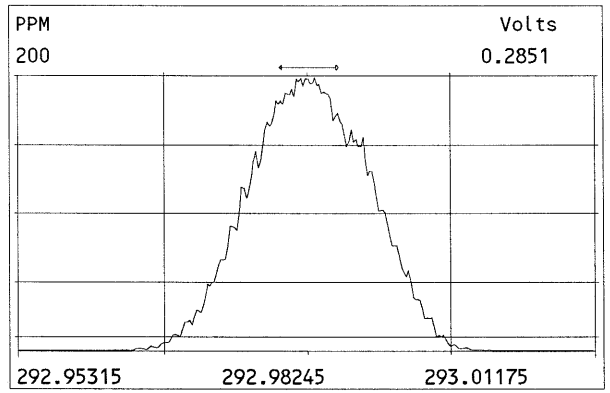


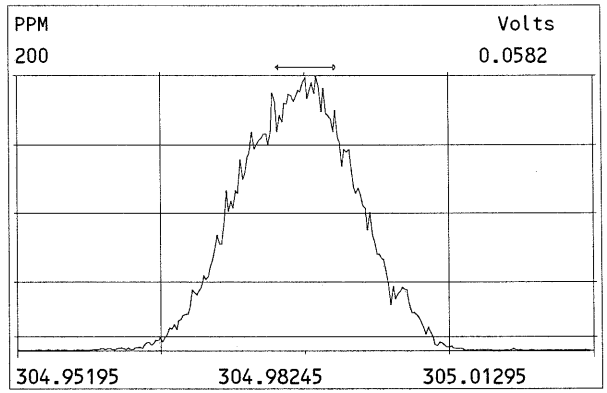


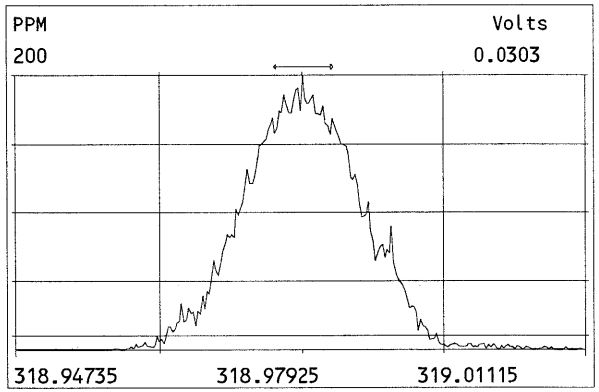


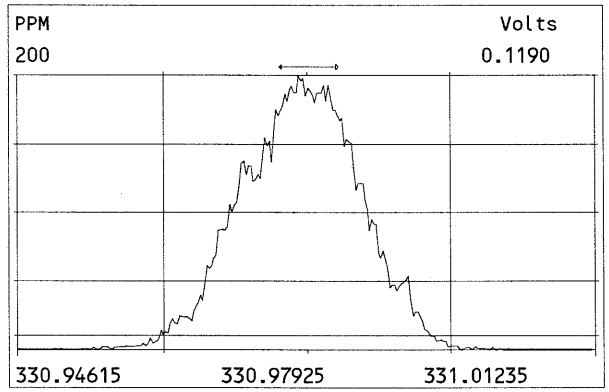
Peak Locate Examination:28-JUL-2018:00:05 File:27JUL18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

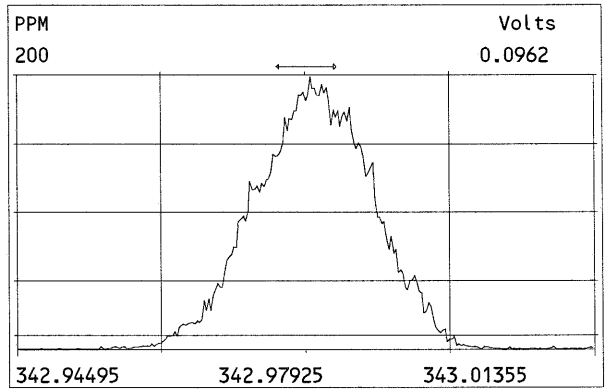


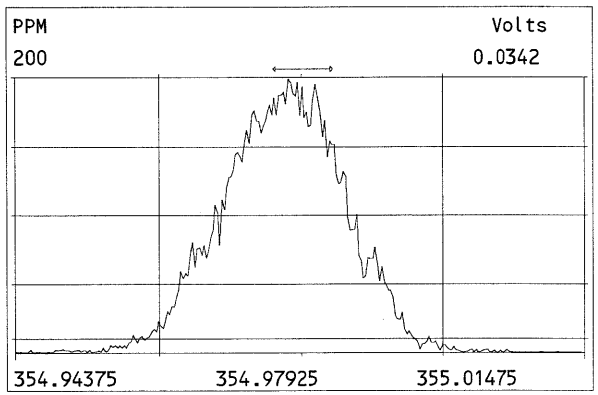


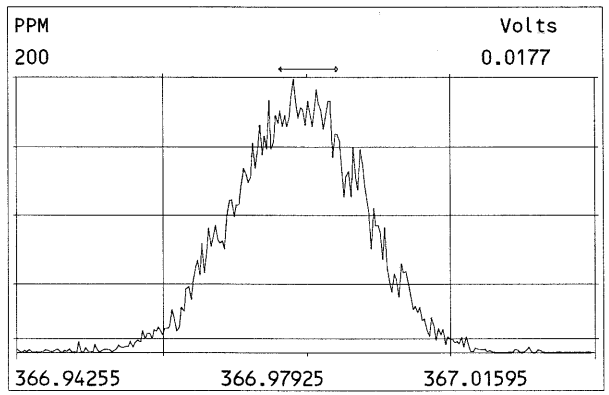


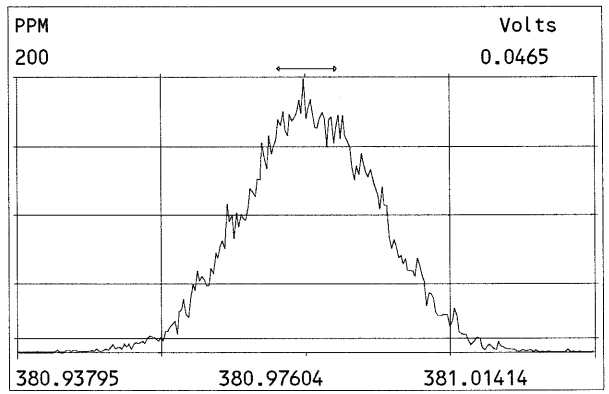




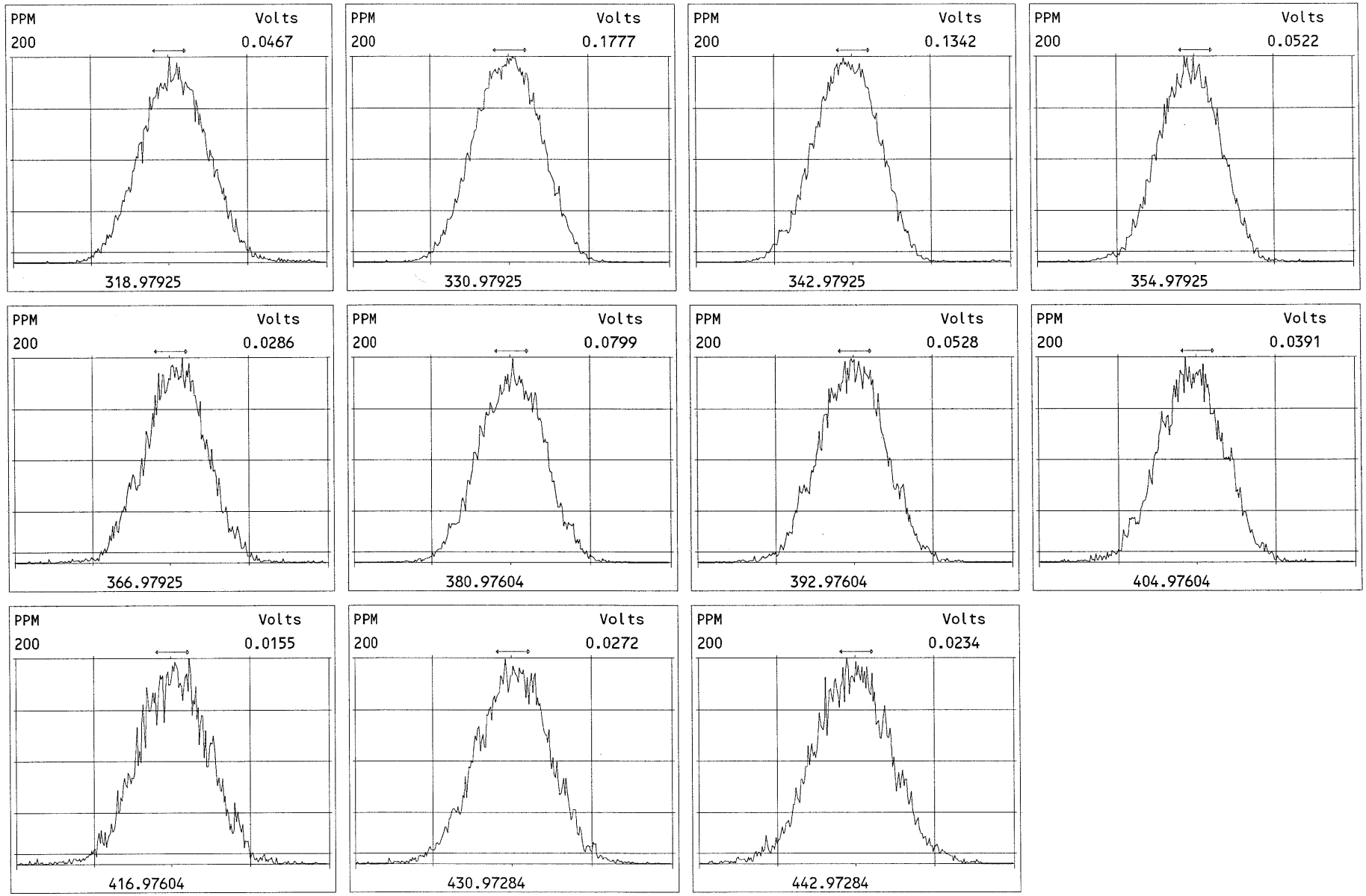




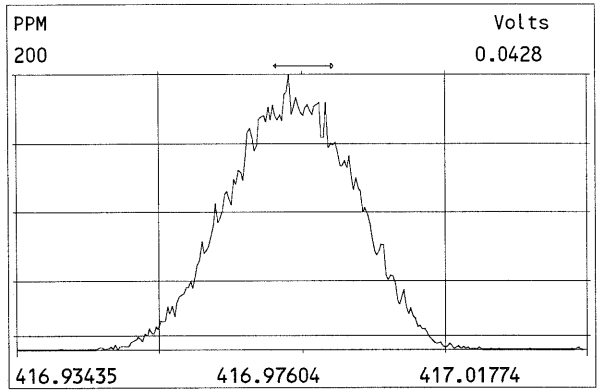


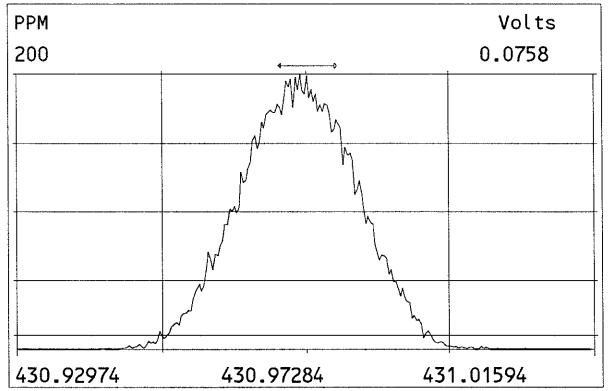


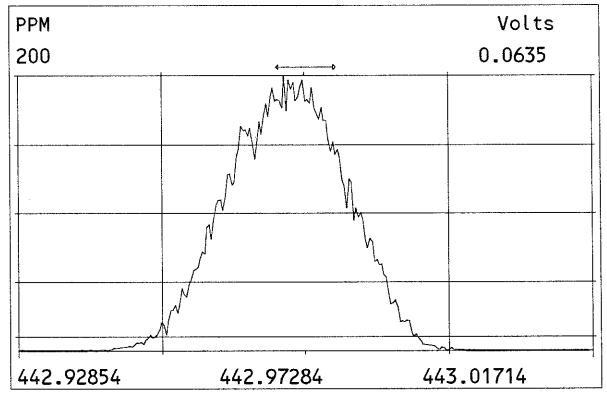
Peak Locate Examination:28-JUL-2018:00:08 File:27JUL18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

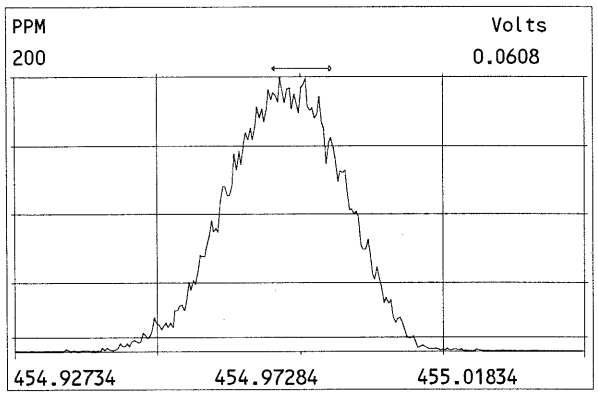


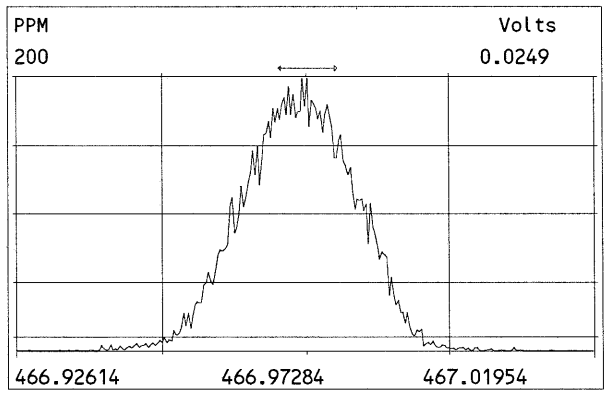
Peak Locate Examination:28-JUL-2018:00:10 File:27JUL18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

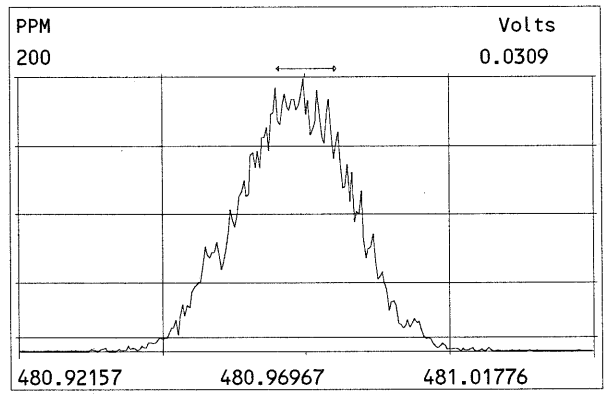


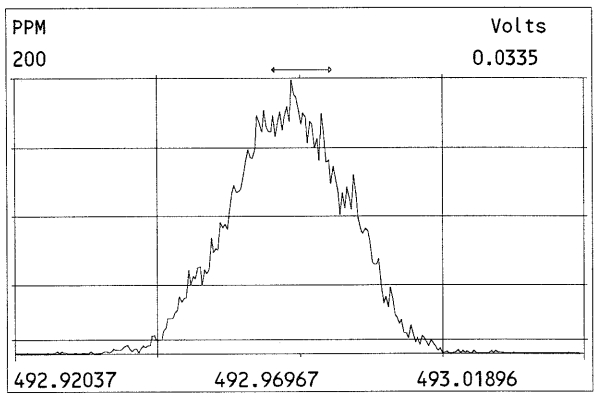


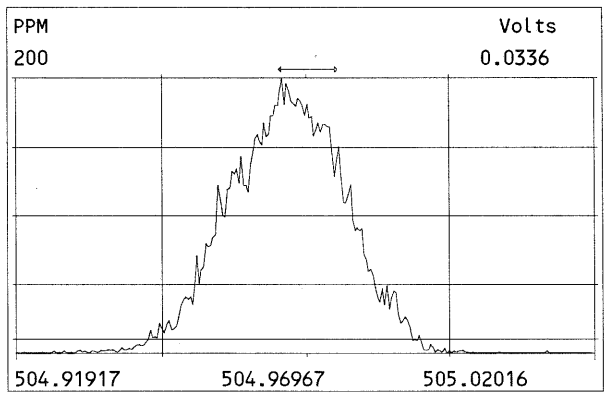


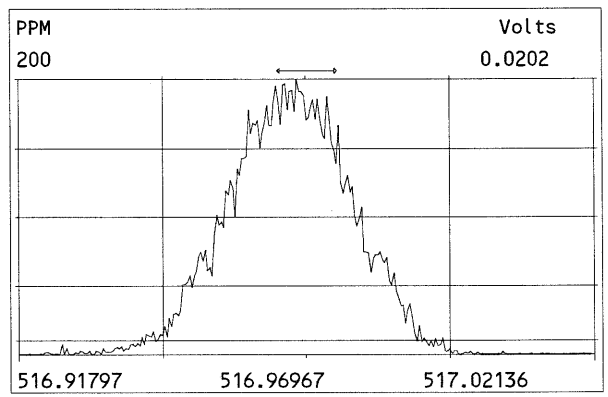












Cal: DAILY209FAL4-7-27-18

Run: 27JUL18Z Analyte: DAILY209FAL4-7-27-18 Results: 11703 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:27JUL18Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.1663	-	1.17	
13C-PCB-1	0.9219	-	0.92	
PCB-2	1.0457	-	1.05	
PCB-3	1.1602	-	1.16	
13C-PCB-3	0.9323	-	0.93	
PCB-4	1.4210	-	1.42	
PCB-10	1.2138	-	1.21	
13C-PCB-4	0.6765	-	0.68	
PCB-9	1.4043	*	1.40	
PCB-7	1.3988	-	1.40	
PCB-6	1.3323	-	1.33	
PCB-8	1.3527	-	1.35	
PCB-5	1.3527	-	1.35	
PCB-14	1.3097	-	1.31	
PCB-11	1.2425	-	1.24	
PCB-13	1.3198	*	1.32	
PCB-12	1.2989	-	1.30	
PCB-15	1.2608	-	1.26	
13C-PCB-15	1.0011	-	1.00	
PCB-19	1.1922	-	1.19	
PCB-30	1.6255	-	1.63	
PCB-18	1.1414	-	1.14	
PCB-17	1.2337	-	1.23	
PCB-27	1.4919	-	1.49	
PCB-24	1.6889	-	1.69	
PCB-16	1.3606	-	1.36	
PCB-32	1.4076	-	1.41	
13C-PCB-19	0.4436	-	0.44	
13C-PCB-9	-	-	-	
PCB-34	1.0272	-	1.03	
PCB-23	1.0991	-	1.10	
PCB-29	1.1437	-	1.14	
PCB-26	1.0431	-	1.04	
PCB-25	1.3592	-	1.36	
PCB-31	1.1169	-	1.12	
PCB-28	1.4365	-	1.44	
PCB-20	1.2365	-	1.24	Co-elute PCB 21/33
PCB-21	1.2365	-	1.24	Co-elute PCB 20/33
PCB-33	1.2365	-	1.24	Co-elute PCB 20/21
PCB-22	1.2396	-	1.24	
PCB-36	1.1259	-	1.13	
PCB-39	1.1580	-	1.16	
PCB-38	1.1179	-	1.12	
PCB-35	1.0776	-	1.08	
PCB-37	1.2182	-	1.22	
13C-PCB-37	1.7154	-	1.72	

PCB-54	1.2057	-	1.21	
PCB-50	0.9069	-	0.91	
PCB-53	0.9259	-	0.93	
PCB-51	0.9456	-	0.95	
PCB-45	0.7867	-	0.79	
PCB-46	0.7759	-	0.78	
PCB-52	1.1334	-	1.13	Co-elute PCB 69
PCB-69	1.1334	-	1.13	Co-elute PCB 52
PCB-73	1.1112	-	1.11	
PCB-43	0.8764	-	0.88	Co-elute PCB 49
PCB-49	0.8764	-	0.88	Co-elute PCB 43
PCB-47	1.0360	-	1.04	
PCB-48	1.1428	-	1.14	Co-elute PCB 75
PCB-75	1.1428	-	1.14	Co-elute PCB 48
PCB-65	1.1508	-	1.15	
PCB-62	1.0970	-	1.10	
PCB-44	0.8039	-	0.80	
PCB-42	1.0669	-	1.07	Co-elute PCB 59
PCB-59	1.0669	-	1.07	Co-elute PCB 42
PCB-72	1.1359	-	1.14	Co-elute PCB 41/71/64
PCB-41	1.1359	-	1.14	Co-elute PCB 72/71/64
PCB-71	1.1359	-	1.14	Co-elute PCB 72/41/64
PCB-64	1.1359	-	1.14	Co-elute PCB 72/41/71
PCB-68	1.2216	-	1.22	
PCB-40	0.6992	-	0.70	
PCB-57	1.1009	-	1.10	
PCB-67	1.1848	-	1.18	
PCB-58	1.0735	-	1.07	
PCB-63	1.1227	-	1.12	
PCB-74	1.2530	-	1.25	
PCB-61	1.1858	-	1.19	Co-elute PCB 70
PCB-70	1.1858	-	1.19	Co-elute PCB 61
PCB-76	1.1754	-	1.18	Co-elute PCB 66
PCB-66	1.1754	-	1.18	Co-elute PCB 76
PCB-80	1.2839	-	1.28	
PCB-55	1.1691	-	1.17	
13C-PCB-54	1.1391	-	1.14	
PCB-104	1.2589	-	1.26	
PCB-96	1.1129	-	1.11	
PCB-103	0.9690	-	0.97	
PCB-100	0.9698	-	0.97	
PCB-94	0.8227	*	0.82	
PCB-98	0.9899	-	0.99	Co-elute PCB 102
PCB-102	0.9899	-	0.99	Co-elute PCB 98
PCB-95	0.8879	*	0.89	
PCB-93	0.8154	-	0.82	
PCB-88	0.9061	-	0.91	Co-elute PCB 91
PCB-91	0.9061	-	0.91	Co-elute PCB 88
PCB-121	1.0793	-	1.08	
13C-PCB-104	0.6354	-	0.64	
13C-PCB-28	1.9636	-	1.96	
13C-PCB-52	-	-	-	

PCB-56	1.2238	-	1.22	Co-elute PCB 60
PCB-60	1.2238	-	1.22	Co-elute PCB 56
PCB-79	1.2188	-	1.22	
PCB-78	1.1723	-	1.17	
PCB-81	1.2429	-	1.24	
13C-PCB-81	1.6178	-	1.62	
PCB-77	1.1769	-	1.18	
13C-PCB-77	1.6187	-	1.62	
PCB-155	1.1555	-	1.16	
PCB-150	1.0302	-	1.03	
PCB-152	0.9739	-	0.97	
PCB-145	0.9966	-	1.00	
PCB-136	0.8900	-	0.89	
PCB-148	0.8264	-	0.83	
PCB-154	0.8795	-	0.88	
13C-PCB-155	0.8580	-	0.86	
13C-PCB-111	1.1643	-	1.16	
13C-PCB-101	-	-	-	
PCB-84	0.6477	-	0.65	Co-elute PCB 92
PCB-92	0.6477	-	0.65	Co-elute PCB 84
PCB-89	0.6232	-	0.62	
PCB-90	0.7143	-	0.71	Co-elute PCB 101
PCB-101	0.7143	-	0.71	Co-elute PCB 90
PCB-113	0.7483	-	0.75	
PCB-99	0.8439	-	0.84	
PCB-119	0.9010	-	0.90	
PCB-83	0.7041	-	0.70	Co-elute PCB 112
PCB-112	0.7041	-	0.70	Co-elute PCB 83
PCB-109	0.8550	-	0.85	
PCB-97	0.7798	-	0.78	
PCB-86	0.6574	*	0.66	
PCB-125	0.7972	-	0.80	Co-elute PCB 87/117
PCB-87	0.7972	-	0.80	Co-elute PCB 125/117
PCB-117	0.7972	-	0.80	Co-elute PCB 125/87
PCB-111	0.9763	-	0.98	Co-elute PCB 115
PCB-115	0.9763	-	0.98	Co-elute PCB 111
PCB-85	0.7675	-	0.77	Co-elute PCB 116
PCB-116	0.7675	-	0.77	Co-elute PCB 85
PCB-120	0.8947	-	0.89	
PCB-110	0.9225	-	0.92	
PCB-82	0.5138	-	0.51	
PCB-124	1.1106	-	1.11	
PCB-108	1.1768	-	1.18	Co-elute PCB 107
PCB-107	1.1768	-	1.18	Co-elute PCB 108
PCB-123	1.3736	-	1.37	
13C-PCB-123	1.4622	-	1.46	
PCB-118	1.0924	*	1.09	Co-elute PCB 106
PCB-106	1.0924	*	1.09	Co-elute PCB 118
13C-PCB-118	1.5880	-	1.59	
PCB-114	1.1776	-	1.18	
13C-PCB-114	1.5093	-	1.51	
PCB-122	1.1505	-	1.15	
PCB-105	1.1440	-	1.14	
13C-PCB-105	1.4695	-	1.47	
PCB-127	1.0155	-	1.02	
PCB-126	1.1806	-	1.18	
13C-PCB-126	1.3855	-	1.39	

PCB-151	0.8866	-	0.89	
PCB-135	0.9025	-	0.90	
PCB-144	0.8476	-	0.85	
PCB-147	0.8995	-	0.90	
PCB-139	0.9537	-	0.95	Co-elute PCB 149
PCB-149	0.9537	-	0.95	Co-elute PCB 139
PCB-140	0.9235	-	0.92	
PCB-143	0.8736	-	0.87	Co-elute PCB 134
PCB-134	0.8736	-	0.87	Co-elute PCB 143
PCB-131	0.8936	-	0.89	Co-elute PCB 133
PCB-133	0.8936	-	0.89	Co-elute PCB 131
PCB-142	0.7699	-	0.77	
PCB-165	1.0408	-	1.04	Co-elute PCB 146
PCB-146	1.0408	-	1.04	Co-elute PCB 165
PCB-161	0.9702	-	0.97	Co-elute PCB 132
PCB-132	0.9702	-	0.97	Co-elute PCB 161
PCB-153	1.0060	-	1.01	
PCB-168	1.1222	-	1.12	
PCB-141	0.8806	-	0.88	
PCB-137	0.8286	-	0.83	
PCB-130	0.7794	-	0.78	
PCB-138	1.1436	-	1.14	Co-elute PCB 163/164
PCB-163	1.1436	-	1.14	Co-elute PCB 138/164
PCB-164	1.1436	-	1.14	Co-elute PCB 138/163
PCB-158	1.1404	-	1.14	Co-elute PCB 160
PCB-160	1.1404	-	1.14	Co-elute PCB 158
PCB-129	0.7339	-	0.73	
PCB-166	1.0706	-	1.07	
PCB-159	1.1663	-	1.17	
PCB-128	0.9668	-	0.97	Co-elute PCB 162
PCB-162	0.9668	-	0.97	Co-elute PCB 128
PCB-167	1.0460	-	1.05	
13C-PCB-167	1.1503	-	1.15	
PCB-156	1.0857	-	1.09	
13C-PCB-156	1.1234	-	1.12	
PCB-157	1.1268	-	1.13	
13C-PCB-157	1.1530	-	1.15	
PCB-169	1.0560	-	1.06	
13C-PCB-169	1.0842	-	1.08	
PCB-188	1.1724	-	1.17	
13C-PCB-188	0.9282	-	0.93	

PCB-184	1.2172	-	1.22	
PCB-179	1.1163	-	1.12	
PCB-176	1.0937	-	1.09	
PCB-186	1.1370	-	1.14	
PCB-178	0.7980	-	0.80	
PCB-175	0.8453	-	0.85	
PCB-187	0.9546	-	0.95	Co-elute PCB 182
PCB-182	0.9546	-	0.95	Co-elute PCB 187
PCB-183	0.9070	-	0.91	
PCB-185	0.8783	-	0.88	
PCB-174	0.8088	-	0.81	
PCB-181	0.9223	-	0.92	
PCB-177	0.7900	-	0.79	
PCB-171	0.8287	-	0.83	
PCB-173	0.7823	-	0.78	
PCB-172	0.7900	-	0.79	
PCB-192	1.0755	-	1.08	
PCB-180	1.0444	-	1.04	
PCB-193	1.1195	-	1.12	
PCB-191	1.0469	-	1.05	
PCB-170	0.7497	-	0.75	
PCB-190	1.0152	-	1.02	
PCB-189	1.1313	-	1.13	
13C-PCB-189	0.8147	-	0.81	
PCB-202	0.9987	-	1.00	
PCB-201	0.9459	-	0.95	
PCB-204	0.9717	-	0.97	
PCB-197	1.0460	-	1.05	
PCB-200	0.9692	-	0.97	
PCB-198	0.6963	-	0.70	
PCB-199	0.7759	-	0.78	
PCB-203	0.8038	-	0.80	Co-elute PCB 196
PCB-196	0.8038	-	0.80	Co-elute PCB 203
13C-PCB-202	0.6027	-	0.60	
13C-PCB-178	0.6661	-	0.67	
13C-PCB-138	-	-	-	
PCB-195	0.7783	-	0.78	
PCB-194	0.8278	-	0.83	
PCB-205	1.1160	-	1.12	
13C-PCB-205	1.2935	-	1.29	
PCB-208	1.0065	-	1.01	
13C-PCB-208	1.1091	-	1.11	
PCB-207	0.9772	*	0.98	
PCB-206	1.0158	-	1.02	
13C-PCB-206	0.8884	-	0.89	
PCB-209	1.1070	-	1.11	
13C-PCB-209	0.9724	-	0.97	
13C-PCB-194	-	-	-	

Analyst: _____ Date: 7/27/18

Run #1 Filename 27JUL18Z S: 2 Acquired: 27-JUL-18 09:51:08 Cal: DAILY209FAL4-7-27-18
Client ID: SS072718Z1 Analyte: FAL ID: Daily 209 171222A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	6.14e+07	3.24 y	14:33	-	1.17	
2	IS/RT	13C-PCB-1	100.00	1.05e+08	3.16 y	14:32	-	0.922	
3	Unk	PCB-2	50.00	5.54e+07	3.24 y	16:46	-	1.05	
4	Unk	PCB-3	50.00	6.18e+07	3.25 y	16:60	-	1.16	
5	IS/RT	13C-PCB-3	100.00	1.07e+08	3.24 y	16:59	-	0.932	
6	Unk	PCB-4	50.00	5.49e+07	1.51 y	18:13	-	1.42	
7	Unk	PCB-10	50.00	5.82e+07	1.58 y	18:17	-	1.21	
8	IS/RT	13C-PCB-4	100.00	7.73e+07	1.59 y	18:12	-	0.676	
9	Unk	PCB-9	50.00	6.73e+07	1.58 y	19:55	-	1.40	
10	Unk	PCB-7	50.00	6.70e+07	1.56 y	19:57	-	1.40	
11	Unk	PCB-6	50.00	6.38e+07	1.60 y	20:33	-	1.33	
12	Unk	PCB-8	50.00	6.48e+07	1.55 y	20:56	-	1.35	
13	Unk	PCB-5	50.00	6.48e+07	1.55 y	20:56	-	1.35	
14	Unk	PCB-14	50.00	6.28e+07	1.58 y	21:58	-	1.31	
15	Unk	PCB-11	50.00	5.95e+07	1.58 y	23:06	-	1.24	
16	Unk	PCB-13	50.00	6.32e+07	1.61 y	23:28	-	1.32	
17	Unk	PCB-12	50.00	6.22e+07	1.54 y	23:30	-	1.30	
18	Unk	PCB-15	50.00	7.21e+07	1.53 y	23:47	-	1.26	
19	IS/RT	13C-PCB-15	100.00	1.14e+08	1.60 y	23:45	-	1.00	
20	Unk	PCB-19	50.00	3.02e+07	1.07 y	22:06	-	1.19	
21	Unk	PCB-30	50.00	4.12e+07	1.07 y	22:58	-	1.63	
22	Unk	PCB-18	50.00	2.89e+07	1.07 y	23:40	-	1.14	
23	Unk	PCB-17	50.00	3.13e+07	1.08 y	23:50	-	1.23	
24	Unk	PCB-27	50.00	3.78e+07	1.11 y	24:22	-	1.49	
25	Unk	PCB-24	50.00	4.28e+07	1.03 y	24:23	-	1.69	
26	Unk	PCB-16	50.00	3.45e+07	1.05 y	24:51	-	1.36	
27	Unk	PCB-32	50.00	3.57e+07	1.08 y	24:52	-	1.41	
28	IS/RT	13C-PCB-19	100.00	5.07e+07	1.09 y	22:05	-	0.444	
29	RS	13C-PCB-9	100.00	1.14e+08	1.60 y	19:53	1.14e+06	-	
30	Unk	PCB-34	50.00	4.91e+07	1.01 y	25:38	-	1.03	
31	Unk	PCB-23	50.00	5.25e+07	1.04 y	25:43	-	1.10	
32	Unk	PCB-29	50.00	5.47e+07	1.05 y	25:58	-	1.14	
33	Unk	PCB-26	50.00	4.99e+07	1.01 y	26:09	-	1.04	
34	Unk	PCB-25	50.00	6.50e+07	1.03 y	26:18	-	1.36	
35	Unk	PCB-31	50.00	5.34e+07	1.03 y	26:38	-	1.12	
36	Unk	PCB-28	50.00	6.87e+07	1.04 y	26:45	-	1.44	
37	Unk	PCB-20	150.00	1.77e+08	1.04 y	27:19	-	1.24	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	1.77e+08	1.04 y	27:19	-	1.24	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	1.77e+08	1.04 y	27:19	-	1.24	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	5.93e+07	1.03 y	27:44	-	1.24	
41	Unk	PCB-36	50.00	5.38e+07	1.03 y	28:21	-	1.13	
42	Unk	PCB-39	50.00	5.54e+07	1.05 y	28:47	-	1.16	
43	Unk	PCB-38	50.00	5.34e+07	1.03 y	29:30	-	1.12	
44	Unk	PCB-35	50.00	5.15e+07	1.05 y	30:01	-	1.08	
45	Unk	PCB-37	50.00	5.82e+07	1.03 y	30:26	-	1.22	
46	IS	13C-PCB-37	100.00	9.56e+07	1.09 y	30:25	-	1.72	

47	Unk	PCB-54	100.00	7.65e+07	0.80 y	25:39	-	1.21	
48	Unk	PCB-50	100.00	5.76e+07	0.80 y	26:46	-	0.907	
49	Unk	PCB-53	100.00	5.88e+07	0.80 y	27:21	-	0.926	
50	Unk	PCB-51	100.00	6.00e+07	0.80 y	27:42	-	0.946	
51	Unk	PCB-45	100.00	4.99e+07	0.79 y	28:06	-	0.787	
52	Unk	PCB-46	100.00	4.93e+07	0.78 y	28:34	-	0.776	
53	Unk	PCB-52	200.00	1.44e+08	0.79 y	29:01	-	1.13	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.44e+08	0.79 y	29:01	-	1.13	Co-elute PCB 52
55	Unk	PCB-73	100.00	7.05e+07	0.83 y	29:08	-	1.11	
56	Unk	PCB-43	200.00	1.11e+08	0.77 y	29:18	-	0.876	Co-elute PCB 49
57	Unk	PCB-49	200.00	1.11e+08	0.77 y	29:18	-	0.876	Co-elute PCB 43
58	Unk	PCB-47	100.00	6.58e+07	0.78 y	29:29	-	1.04	
59	Unk	PCB-48	200.00	1.45e+08	0.79 y	29:35	-	1.14	Co-elute PCB 75
60	Unk	PCB-75	200.00	1.45e+08	0.79 y	29:35	-	1.14	Co-elute PCB 48
61	Unk	PCB-65	100.00	7.31e+07	0.79 y	29:51	-	1.15	
62	Unk	PCB-62	100.00	6.96e+07	0.79 y	29:57	-	1.10	
63	Unk	PCB-44	100.00	5.10e+07	0.79 y	30:13	-	0.804	
64	Unk	PCB-42	200.00	1.35e+08	0.79 y	30:27	-	1.07	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.35e+08	0.79 y	30:27	-	1.07	Co-elute PCB 42
66	Unk	PCB-72	400.00	2.88e+08	0.79 y	31:00	-	1.14	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	2.88e+08	0.79 y	31:00	-	1.14	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	2.88e+08	0.79 y	31:00	-	1.14	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	2.88e+08	0.79 y	31:00	-	1.14	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	7.75e+07	0.80 y	31:15	-	1.22	
71	Unk	PCB-40	100.00	4.44e+07	0.79 y	31:27	-	0.699	
72	Unk	PCB-57	100.00	6.99e+07	0.79 y	31:48	-	1.10	
73	Unk	PCB-67	100.00	7.52e+07	0.79 y	32:06	-	1.18	
74	Unk	PCB-58	100.00	6.81e+07	0.81 y	32:12	-	1.07	
75	Unk	PCB-63	100.00	7.13e+07	0.79 y	32:22	-	1.12	
76	Unk	PCB-74	100.00	7.95e+07	0.80 y	32:39	-	1.25	
77	Unk	PCB-61	200.00	1.51e+08	0.79 y	32:50	-	1.19	Co-elute PCB 70
78	Unk	PCB-70	200.00	1.51e+08	0.79 y	32:50	-	1.19	Co-elute PCB 61
79	Unk	PCB-76	200.00	1.49e+08	0.79 y	33:02	-	1.18	Co-elute PCB 66
80	Unk	PCB-66	200.00	1.49e+08	0.79 y	33:02	-	1.18	Co-elute PCB 76
81	Unk	PCB-80	100.00	8.15e+07	0.80 y	33:15	-	1.28	
82	Unk	PCB-55	100.00	7.42e+07	0.80 y	33:32	-	1.17	
83	IS/RT	13C-PCB-54	100.00	6.35e+07	0.82 y	25:38	-	1.14	
84	Unk	PCB-104	100.00	4.46e+07	1.62 y	30:06	-	1.26	
85	Unk	PCB-96	100.00	3.94e+07	1.64 y	31:17	-	1.11	
86	Unk	PCB-103	100.00	3.43e+07	1.62 y	31:48	-	0.969	
87	Unk	PCB-100	100.00	3.43e+07	1.62 y	32:08	-	0.970	
88	Unk	PCB-94	100.00	2.91e+07	1.62 y	32:35	-	0.823	
89	Unk	PCB-98	200.00	7.01e+07	1.62 y	33:02	-	0.990	Co-elute PCB 102
90	Unk	PCB-102	200.00	7.01e+07	1.62 y	33:02	-	0.990	Co-elute PCB 98
91	Unk	PCB-95	100.00	3.14e+07	1.59 y	33:04	-	0.888	
92	Unk	PCB-93	100.00	2.89e+07	1.66 y	33:10	-	0.815	
93	Unk	PCB-88	200.00	6.42e+07	1.60 y	33:27	-	0.906	Co-elute PCB 91
94	Unk	PCB-91	200.00	6.42e+07	1.60 y	33:27	-	0.906	Co-elute PCB 88
95	Unk	PCB-121	100.00	3.82e+07	1.71 y	33:33	-	1.08	
96	IS	13C-PCB-104	100.00	3.54e+07	1.63 y	30:05	-	0.635	
97	C/Up	13C-PCB-28	100.00	1.09e+08	1.07 y	26:44	-	1.96	
98	RS	13C-PCB-52	100.00	5.57e+07	0.81 y	28:59	5.57e+05	-	
99	Unk	PCB-56	200.00	1.75e+08	0.78 y	34:01	-	1.22	Co-elute PCB 60
100	Unk	PCB-60	200.00	1.75e+08	0.78 y	34:01	-	1.22	Co-elute PCB 56

101	Unk	PCB-79	100.00	8.70e+07	0.81 y	35:03	-	1.22	
102	Unk	PCB-78	100.00	8.37e+07	0.81 y	35:42	-	1.17	
103	Unk	PCB-81	100.00	8.87e+07	0.80 y	36:12	-	1.24	
104	IS	13C-PCB-81	100.00	7.14e+07	0.81 y	36:11	-	1.62	
105	Unk	PCB-77	100.00	8.41e+07	0.80 y	36:46	-	1.18	
106	IS/RT	13C-PCB-77	100.00	7.14e+07	0.81 y	36:45	-	1.62	
107	Unk	PCB-155	100.00	4.37e+07	1.29 y	34:16	-	1.16	
108	Unk	PCB-150	100.00	3.90e+07	1.28 y	35:27	-	1.03	
109	Unk	PCB-152	100.00	3.69e+07	1.26 y	35:53	-	0.974	
110	Unk	PCB-145	100.00	3.77e+07	1.28 y	36:20	-	0.997	
111	Unk	PCB-136	100.00	3.37e+07	1.28 y	36:37	-	0.890	
112	Unk	PCB-148	100.00	3.13e+07	1.29 y	36:44	-	0.826	
113	Unk	PCB-154	100.00	3.33e+07	1.30 y	37:12	-	0.880	
114	IS	13C-PCB-155	100.00	3.79e+07	1.30 y	34:15	-	0.858	
115	C/Up	13C-PCB-111	100.00	5.14e+07	1.62 y	36:20	-	1.16	
116	RS	13C-PCB-101	100.00	4.41e+07	1.59 y	34:41	4.41e+05	-	
117	Unk	PCB-84	200.00	8.43e+07	1.60 y	34:20	-	0.648	Co-elute PCB 92
118	Unk	PCB-92	200.00	8.43e+07	1.60 y	34:20	-	0.648	Co-elute PCB 84
119	Unk	PCB-89	100.00	4.06e+07	1.59 y	34:31	-	0.623	
120	Unk	PCB-90	200.00	9.30e+07	1.58 y	34:41	-	0.714	Co-elute PCB 101
121	Unk	PCB-101	200.00	9.30e+07	1.58 y	34:41	-	0.714	Co-elute PCB 90
122	Unk	PCB-113	100.00	4.87e+07	1.57 y	34:55	-	0.748	
123	Unk	PCB-99	100.00	5.49e+07	1.61 y	35:01	-	0.844	
124	Unk	PCB-119	100.00	5.87e+07	1.57 y	35:27	-	0.901	
125	Unk	PCB-83	200.00	9.17e+07	1.60 y	35:35	-	0.704	Co-elute PCB 112
126	Unk	PCB-112	200.00	9.17e+07	1.60 y	35:35	-	0.704	Co-elute PCB 83
127	Unk	PCB-109	100.00	5.57e+07	1.57 y	35:46	-	0.855	
128	Unk	PCB-97	100.00	5.08e+07	1.55 y	35:56	-	0.780	
129	Unk	PCB-86	100.00	4.28e+07	1.55 y	36:06	-	0.657	
130	Unk	PCB-125	300.00	1.56e+08	1.59 y	36:12	-	0.797	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	1.56e+08	1.59 y	36:12	-	0.797	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	1.56e+08	1.59 y	36:12	-	0.797	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.27e+08	1.58 y	36:21	-	0.976	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.27e+08	1.58 y	36:21	-	0.976	Co-elute PCB 111
135	Unk	PCB-85	200.00	1.00e+08	1.60 y	36:29	-	0.768	Co-elute PCB 116
136	Unk	PCB-116	200.00	1.00e+08	1.60 y	36:29	-	0.768	Co-elute PCB 85
137	Unk	PCB-120	100.00	5.83e+07	1.66 y	36:42	-	0.895	
138	Unk	PCB-110	100.00	6.01e+07	1.60 y	36:50	-	0.923	
139	Unk	PCB-82	100.00	3.35e+07	1.55 y	37:25	-	0.514	
140	Unk	PCB-124	100.00	7.23e+07	1.60 y	38:06	-	1.11	
141	Unk	PCB-108	200.00	1.53e+08	1.60 y	38:13	-	1.18	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.53e+08	1.60 y	38:13	-	1.18	Co-elute PCB 108
143	Unk	PCB-123	100.00	8.68e+07	1.59 y	38:23	-	1.37	
144	IS	13C-PCB-123	100.00	6.32e+07	1.61 y	38:23	-	1.46	
145	Unk	PCB-118	200.00	1.50e+08	1.59 y	38:36	-	1.09	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.50e+08	1.59 y	38:36	-	1.09	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	6.86e+07	1.60 y	38:33	-	1.59	
148	Unk	PCB-114	100.00	7.68e+07	1.58 y	39:11	-	1.18	
149	IS	13C-PCB-114	100.00	6.52e+07	1.61 y	39:11	-	1.51	
150	Unk	PCB-122	100.00	7.49e+07	1.58 y	39:17	-	1.15	
151	Unk	PCB-105	100.00	7.26e+07	1.57 y	40:00	-	1.14	
152	IS	13C-PCB-105	100.00	6.35e+07	1.61 y	39:58	-	1.47	
153	Unk	PCB-127	100.00	6.61e+07	1.61 y	40:20	-	1.02	
154	Unk	PCB-126	100.00	7.07e+07	1.59 y	42:08	-	1.18	
155	IS	13C-PCB-126	100.00	5.99e+07	1.60 y	42:07	-	1.39	

156	Unk	PCB-151	100.00	4.32e+07	1.26 y	37:48	-	0.887	
157	Unk	PCB-135	100.00	4.40e+07	1.26 y	38:01	-	0.903	
158	Unk	PCB-144	100.00	4.13e+07	1.27 y	38:08	-	0.848	
159	Unk	PCB-147	100.00	4.38e+07	1.27 y	38:15	-	0.899	
160	Unk	PCB-139	200.00	9.29e+07	1.27 y	38:29	-	0.954	Co-elute PCB 149
161	Unk	PCB-149	200.00	9.29e+07	1.27 y	38:29	-	0.954	Co-elute PCB 139
162	Unk	PCB-140	100.00	4.50e+07	1.26 y	38:41	-	0.924	
163	Unk	PCB-143	200.00	8.51e+07	1.26 y	39:06	-	0.874	Co-elute PCB 134
164	Unk	PCB-134	200.00	8.51e+07	1.26 y	39:06	-	0.874	Co-elute PCB 143
165	Unk	PCB-131	200.00	8.71e+07	1.27 y	39:22	-	0.894	Co-elute PCB 133
166	Unk	PCB-133	200.00	8.71e+07	1.27 y	39:22	-	0.894	Co-elute PCB 131
167	Unk	PCB-142	100.00	3.75e+07	1.27 y	39:30	-	0.770	
168	Unk	PCB-165	200.00	1.01e+08	1.27 y	39:43	-	1.04	Co-elute PCB 146
169	Unk	PCB-146	200.00	1.01e+08	1.27 y	39:43	-	1.04	Co-elute PCB 165
170	Unk	PCB-161	200.00	9.45e+07	1.26 y	39:57	-	0.970	Co-elute PCB 132
171	Unk	PCB-132	200.00	9.45e+07	1.26 y	39:57	-	0.970	Co-elute PCB 161
172	Unk	PCB-153	100.00	4.90e+07	1.27 y	40:08	-	1.01	
173	Unk	PCB-168	100.00	5.47e+07	1.25 y	40:20	-	1.12	
174	Unk	PCB-141	100.00	4.29e+07	1.27 y	40:49	-	0.881	
175	Unk	PCB-137	100.00	4.04e+07	1.23 y	41:11	-	0.829	
176	Unk	PCB-130	100.00	3.80e+07	1.27 y	41:17	-	0.779	
177	Unk	PCB-138	300.00	1.67e+08	1.27 y	41:39	-	1.14	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.67e+08	1.27 y	41:39	-	1.14	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.67e+08	1.27 y	41:39	-	1.14	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.11e+08	1.27 y	41:52	-	1.14	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.11e+08	1.27 y	41:52	-	1.14	Co-elute PCB 158
182	Unk	PCB-129	100.00	3.58e+07	1.26 y	42:05	-	0.734	
183	Unk	PCB-166	100.00	5.22e+07	1.28 y	42:33	-	1.07	
184	Unk	PCB-159	100.00	5.68e+07	1.26 y	42:51	-	1.17	
185	Unk	PCB-128	200.00	9.42e+07	1.27 y	43:08	-	0.967	Co-elute PCB 162
186	Unk	PCB-162	200.00	9.42e+07	1.27 y	43:08	-	0.967	Co-elute PCB 128
187	Unk	PCB-167	100.00	5.20e+07	1.26 y	43:29	-	1.05	
188	IS	13C-PCB-167	100.00	4.97e+07	1.29 y	43:29	-	1.15	
189	Unk	PCB-156	100.00	5.27e+07	1.25 y	44:43	-	1.09	
190	IS	13C-PCB-156	100.00	4.85e+07	1.28 y	44:41	-	1.12	
191	Unk	PCB-157	100.00	5.61e+07	1.25 y	44:58	-	1.13	
192	IS	13C-PCB-157	100.00	4.98e+07	1.29 y	44:58	-	1.15	
193	Unk	PCB-169	100.00	4.95e+07	1.26 y	46:51	-	1.06	
194	IS	13C-PCB-169	100.00	4.68e+07	1.24 y	46:50	-	1.08	
195	Unk	PCB-188	100.00	4.70e+07	1.05 y	39:45	-	1.17	
196	IS	13C-PCB-188	100.00	4.01e+07	1.09 y	39:43	-	0.928	

197	Unk	PCB-184	100.00	4.58e+07	1.06 y	40:11	-	1.22	
198	Unk	PCB-179	100.00	4.20e+07	1.05 y	40:54	-	1.12	
199	Unk	PCB-176	100.00	4.12e+07	1.07 y	41:21	-	1.09	
200	Unk	PCB-186	100.00	4.28e+07	1.05 y	41:55	-	1.14	
201	Unk	PCB-178	100.00	3.00e+07	1.05 y	42:23	-	0.798	
202	Unk	PCB-175	100.00	3.18e+07	1.04 y	42:43	-	0.845	
203	Unk	PCB-187	200.00	7.19e+07	1.06 y	42:53	-	0.955	Co-elute PCB 182
204	Unk	PCB-182	200.00	7.19e+07	1.06 y	42:53	-	0.955	Co-elute PCB 187
205	Unk	PCB-183	100.00	3.41e+07	1.04 y	43:11	-	0.907	
206	Unk	PCB-185	100.00	3.31e+07	1.06 y	43:49	-	0.878	
207	Unk	PCB-174	100.00	3.04e+07	1.05 y	44:08	-	0.809	
208	Unk	PCB-181	100.00	3.47e+07	1.05 y	44:15	-	0.922	
209	Unk	PCB-177	100.00	2.97e+07	1.05 y	44:25	-	0.790	
210	Unk	PCB-171	100.00	3.12e+07	1.06 y	44:41	-	0.829	
211	Unk	PCB-173	100.00	2.95e+07	1.06 y	45:06	-	0.782	
212	Unk	PCB-172	100.00	2.97e+07	1.05 y	45:31	-	0.790	
213	Unk	PCB-192	100.00	4.05e+07	1.05 y	45:41	-	1.08	
214	Unk	PCB-180	100.00	3.93e+07	1.07 y	45:51	-	1.04	
215	Unk	PCB-193	100.00	4.21e+07	1.05 y	46:00	-	1.12	
216	Unk	PCB-191	100.00	3.94e+07	1.06 y	46:14	-	1.05	
217	Unk	PCB-170	100.00	2.82e+07	1.06 y	47:08	-	0.750	
218	Unk	PCB-190	100.00	3.82e+07	1.05 y	47:18	-	1.02	
219	Unk	PCB-189	100.00	3.98e+07	1.06 y	48:30	-	1.13	
220	IS	13C-PCB-189	100.00	3.52e+07	1.08 y	48:29	-	0.815	
221	Unk	PCB-202	150.00	3.90e+07	0.91 y	44:51	-	0.999	
222	Unk	PCB-201	150.00	3.69e+07	0.91 y	45:19	-	0.946	
223	Unk	PCB-204	150.00	3.79e+07	0.91 y	45:27	-	0.972	
224	Unk	PCB-197	150.00	4.09e+07	0.91 y	45:42	-	1.05	
225	Unk	PCB-200	150.00	3.79e+07	0.92 y	46:27	-	0.969	
226	Unk	PCB-198	150.00	2.72e+07	0.89 y	47:37	-	0.696	
227	Unk	PCB-199	150.00	3.03e+07	0.94 y	47:44	-	0.776	
228	Unk	PCB-203	300.00	6.28e+07	0.92 y	47:59	-	0.804	Co-elute PCB 196
229	Unk	PCB-196	300.00	6.28e+07	0.92 y	47:59	-	0.804	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	2.60e+07	0.93 y	44:51	-	0.603	
231	C/Up	13C-PCB-178	100.00	2.88e+07	1.11 y	42:21	-	0.666	
232	RS	13C-PCB-138	100.00	4.32e+07	1.28 y	41:35	4.32e+05	-	
233	Unk	PCB-195	150.00	6.67e+07	0.90 y	49:04	-	0.778	
234	Unk	PCB-194	150.00	7.09e+07	0.91 y	49:53	-	0.828	
235	Unk	PCB-205	150.00	9.57e+07	0.90 y	50:09	-	1.12	
236	IS	13C-PCB-205	100.00	5.71e+07	0.92 y	50:07	-	1.29	
237	Unk	PCB-208	150.00	7.40e+07	1.35 y	49:11	-	1.01	
238	IS	13C-PCB-208	100.00	4.90e+07	0.81 y	49:11	-	1.11	
239	Unk	PCB-207	150.00	6.47e+07	1.37 y	49:29	-	0.977	
240	Unk	PCB-206	150.00	5.98e+07	1.34 y	51:19	-	1.02	
241	IS	13C-PCB-206	100.00	3.92e+07	0.80 y	51:19	-	0.888	
242	Unk	PCB-209	150.00	7.13e+07	1.20 y	52:31	-	1.11	
243	IS	13C-PCB-209	100.00	4.30e+07	1.21 y	52:30	-	0.972	
244	RS	13C-PCB-194	100.00	4.42e+07	0.94 y	49:52	4.42e+05	-	

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197	Unk	PCB-184	100.00	4.58e+07	1.06	y	40:11	-	1.22	
198	Unk	PCB-179	100.00	4.20e+07	1.05	y	40:54	-	1.12	
199	Unk	PCB-176	100.00	4.12e+07	1.07	y	41:21	-	1.09	
200	Unk	PCB-186	100.00	4.28e+07	1.05	y	41:55	-	1.14	
201	Unk	PCB-178	100.00	3.00e+07	1.05	y	42:23	-	0.798	
202	Unk	PCB-175	100.00	3.18e+07	1.04	y	42:43	-	0.845	
203	Unk	PCB-187	200.00	7.19e+07	1.06	y	42:53	-	0.955	Co-elute PCB 182
204	Unk	PCB-182	200.00	7.19e+07	1.06	y	42:53	-	0.955	Co-elute PCB 187
205	Unk	PCB-183	100.00	3.41e+07	1.04	y	43:11	-	0.907	
206	Unk	PCB-185	100.00	3.31e+07	1.06	y	43:49	-	0.878	
207	Unk	PCB-174	100.00	3.04e+07	1.05	y	44:08	-	0.809	
208	Unk	PCB-181	100.00	3.47e+07	1.05	y	44:15	-	0.922	
209	Unk	PCB-177	100.00	2.97e+07	1.05	y	44:25	-	0.790	
210	Unk	PCB-171	100.00	3.12e+07	1.06	y	44:41	-	0.829	
211	Unk	PCB-173	100.00	2.95e+07	1.06	y	45:06	-	0.782	
212	Unk	PCB-172	100.00	2.97e+07	1.05	y	45:31	-	0.790	
213	Unk	PCB-192	100.00	4.05e+07	1.05	y	45:41	-	1.08	
214	Unk	PCB-180	100.00	3.93e+07	1.07	y	45:51	-	1.04	
215	Unk	PCB-193	100.00	4.21e+07	1.05	y	46:00	-	1.12	
216	Unk	PCB-191	100.00	3.94e+07	1.06	y	46:14	-	1.05	
217	Unk	PCB-170	100.00	2.82e+07	1.06	y	47:08	-	0.750	
218	Unk	PCB-190	100.00	3.82e+07	1.05	y	47:18	-	1.02	
219	Unk	PCB-189	100.00	3.98e+07	1.06	y	48:30	-	1.13	
220	IS	13C-PCB-189	100.00	3.52e+07	1.08	y	48:29	-	0.815	
221	Unk	PCB-202	150.00	3.90e+07	0.91	y	44:51	-	0.999	
222	Unk	PCB-201	150.00	3.69e+07	0.91	y	45:19	-	0.946	
223	Unk	PCB-204	150.00	3.79e+07	0.91	y	45:27	-	0.972	
224	Unk	PCB-197	150.00	4.09e+07	0.91	y	45:42	-	1.05	
225	Unk	PCB-200	150.00	3.79e+07	0.92	y	46:27	-	0.969	
226	Unk	PCB-198	150.00	2.72e+07	0.89	y	47:37	-	0.696	
227	Unk	PCB-199	150.00	3.03e+07	0.94	y	47:44	-	0.776	
228	Unk	PCB-203	300.00	6.28e+07	0.92	y	47:59	-	0.804	Co-elute PCB 196
229	Unk	PCB-196	300.00	6.28e+07	0.92	y	47:59	-	0.804	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	2.60e+07	0.93	y	44:51	-	0.603	
231	C/Up	13C-PCB-178	100.00	2.88e+07	1.11	y	42:21	-	0.666	
232	RS	13C-PCB-138	100.00	4.32e+07	1.28	y	41:35	4.32e+05	-	
233	Unk	PCB-195	150.00	6.67e+07	0.90	y	49:04	-	0.778	
234	Unk	PCB-194	150.00	7.09e+07	0.91	y	49:53	-	0.828	
235	Unk	PCB-205	150.00	9.57e+07	0.90	y	50:09	-	1.12	
236	IS	13C-PCB-205	100.00	5.71e+07	0.92	y	50:07	-	1.29	
237	Unk	PCB-208	150.00	7.40e+07	1.35	y	49:11	-	1.01	
238	IS	13C-PCB-208	100.00	4.90e+07	0.81	y	49:11	-	1.11	
239	Unk	PCB-207	150.00	6.47e+07	1.37	y	49:29	-	0.977	
240	Unk	PCB-206	150.00	5.98e+07	1.34	y	51:19	-	1.02	
241	IS	13C-PCB-206	100.00	3.92e+07	0.80	y	51:19	-	0.888	
242	Unk	PCB-209	150.00	7.13e+07	1.20	y	52:31	-	1.11	
243	IS	13C-PCB-209	100.00	4.30e+07	1.21	y	52:30	-	0.972	
244	RS	13C-PCB-194	100.00	4.42e+07	0.94	y	49:52	4.42e+05	-	

Analyst: _____ Date: 7/27/18

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/27/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 27JUL18Z Sam:1 Analysis Date: 27-JUL-18 08:52:48

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.22	2.66-3.60	y	47.6	37.5 - 62.5
PCB-3	M/M+2	3.17	2.66-3.60	y	48.7	37.5 - 62.5
PCB-4	M/M+2	1.52	1.33-1.79	y	42.9	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	46.3	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	51.2	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	49.7	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	49.2	37.5 - 62.5
PCB-77	M/M+2	0.81	0.65-0.89	y	49.6	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	49.9	37.5 - 62.5
PCB-104	M+2/M+4	1.60	1.32-1.78	y	47.8	37.5 - 62.5
PCB-105	M+2/M+4	1.63	1.32-1.78	y	49.5	37.5 - 62.5
PCB-114	M+2/M+4	1.58	1.32-1.78	y	48.2	37.5 - 62.5
PCB-118	M+2/M+4	1.59	1.32-1.78	y	52.9	37.5 - 62.5
PCB-123	M+2/M+4	1.62	1.32-1.78	y	42.3	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	47.9	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	51.0	37.5 - 62.5
PCB-156	M+2/M+4	1.23	1.05-1.43	y	51.1	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	48.2	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	52.1	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	51.7	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	46.9	37.5 - 62.5
PCB-189	M+2/M+4	1.03	0.89-1.21	y	50.6	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	54.9	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	49.6	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	47.7	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	47.2	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	53.3	37.5 - 62.5

Analyst: [signature] Date: 7/27/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/27/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 27JUL18Z Sam:1 Analysis Date: 27-JUL-18 08:52:48

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.20	2.66-3.60	y	99.2	50.0 - 145
13C-PCB-3	M/M+2	3.23	2.66-3.60	y	98.6	50.0 - 145
13C-PCB-4	M/M+2	1.61	1.33-1.79	y	98.2	50.0 - 145
13C-PCB-15	M/M+2	1.62	1.33-1.79	y	97.3	50.0 - 145
13C-PCB-19	M/M+2	1.10	0.88-1.20	y	104	50.0 - 145
13C-PCB-37	M/M+2	1.10	0.88-1.20	y	92.7	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	103	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	89.3	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	86.5	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	111	50.0 - 145
13C-PCB-105	M+2/M+4	1.66	1.32-1.78	y	95.0	50.0 - 145
13C-PCB-114	M+2/M+4	1.67	1.32-1.78	y	95.2	50.0 - 145
13C-PCB-118	M+2/M+4	1.62	1.32-1.78	y	99.2	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	88.9	50.0 - 145
13C-PCB-126	M+2/M+4	1.62	1.32-1.78	y	92.1	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	98.2	50.0 - 145
13C-PCB-156	M+2/M+4	1.26	1.05-1.43	y	96.4	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	102	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	101	50.0 - 145
13C-PCB-169	M+2/M+4	1.26	1.05-1.43	y	98.9	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	110	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	109	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	104	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	98.5	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	110	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	113	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	99.6	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.08	0.88-1.20	y	91.2	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	102	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	103	75.0 - 125

Analyst: _____ Date: 7/27/18

FAL ID: ST072718Z1 Filename: 27JUL18Z Sam:1 Acquired: 27-JUL-18 08:52:48 ICal: DAILY209FAL4-7-27-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.25e+07	3.22 y	14:33	1.17	47.6		2.50	-	-	*	
13C-PCB-1	7.66e+07	3.20 y	14:32	0.92	99.2		2.50				99.2
PCB-3	4.34e+07	3.17 y	17:00	1.16	48.7		2.50	-	-	*	
13C-PCB-3	7.69e+07	3.23 y	16:59	0.93	98.6		2.50				98.6
PCB-4	3.39e+07	1.52 y	18:14	1.42	42.9		2.50	-	-	*	
13C-PCB-4	5.56e+07	1.61 y	18:13	0.68	98.2		2.50				98.2
PCB-15	4.76e+07	1.57 y	23:48	1.26	46.3		2.50	-	-	*	
13C-PCB-15	8.15e+07	1.62 y	23:47	1.00	97.3		2.50				97.3
PCB-19	2.35e+07	1.07 y	22:08	1.19	51.2		2.50	-	-	*	
13C-PCB-19	3.86e+07	1.10 y	22:06	0.44	104		2.50				104
13C-PCB-9	8.37e+07	1.63 y	19:54	-	73.2		2.50				
PCB-37	4.13e+07	1.04 y	30:27	1.22	49.7		2.50	-	-	*	
13C-PCB-37	6.82e+07	1.10 y	30:27	1.72	92.7		2.50				92.7
PCB-54	2.98e+07	0.80 y	25:40	1.21	49.2		2.50	-	-	*	
13C-PCB-54	5.03e+07	0.82 y	25:39	1.14	103		2.50				103
PCB-104	1.81e+07	1.60 y	30:07	1.26	47.8		2.50	-	-	*	
13C-PCB-104	3.01e+07	1.61 y	30:06	0.64	111		2.50				111
13C-PCB-28	7.68e+07	1.08 y	26:45	1.96	91.2		2.50				91.2
13C-PCB-52	4.29e+07	0.81 y	29:01	-	76.9		2.50				
PCB-81	3.21e+07	0.81 y	36:15	1.24	49.9		2.50	-	-	*	
13C-PCB-81	5.17e+07	0.81 y	36:13	1.62	86.5		2.50				86.5
PCB-77	3.12e+07	0.81 y	36:49	1.18	49.6		2.50	-	-	*	
13C-PCB-77	5.34e+07	0.81 y	36:47	1.62	89.3		2.50				89.3
PCB-155	1.83e+07	1.28 y	34:17	1.16	51.0		2.50	-	-	*	
13C-PCB-155	3.11e+07	1.29 y	34:16	0.86	98.2		2.50				98.2
13C-PCB-111	4.40e+07	1.59 y	36:22	1.16	102		2.50				102
13C-PCB-101	3.69e+07	1.64 y	34:44	-	83.7		2.50				
PCB-123	2.70e+07	1.62 y	38:26	1.37	42.3		2.50	-	-	*	
13C-PCB-123	4.64e+07	1.61 y	38:24	1.46	88.9		2.50				88.9
PCB-118	3.25e+07	1.59 y	38:36	1.09	52.9		2.50	-	-	*	
13C-PCB-118	5.63e+07	1.62 y	38:34	1.59	99.2		2.50				99.2
PCB-114	2.92e+07	1.58 y	39:14	1.18	48.2		2.50	-	-	*	
13C-PCB-114	5.14e+07	1.67 y	39:12	1.51	95.2		2.50				95.2
PCB-105	2.82e+07	1.63 y	40:01	1.14	49.5		2.50	-	-	*	
13C-PCB-105	4.99e+07	1.66 y	40:01	1.47	95.0		2.50				95.0
PCB-126	2.58e+07	1.58 y	42:10	1.18	47.9		2.50	-	-	*	
13C-PCB-126	4.56e+07	1.62 y	42:10	1.39	92.1		2.50				92.1
PCB-167	2.27e+07	1.26 y	43:32	1.05	52.1		2.50	-	-	*	
13C-PCB-167	4.17e+07	1.28 y	43:31	1.15	101		2.50				101
PCB-156	2.15e+07	1.23 y	44:45	1.09	51.1		2.50	-	-	*	
13C-PCB-156	3.87e+07	1.26 y	44:45	1.12	96.4		2.50				96.4
PCB-157	2.29e+07	1.27 y	45:01	1.13	48.2		2.50	-	-	*	
13C-PCB-157	4.21e+07	1.30 y	44:59	1.15	102		2.50				102
PCB-169	2.09e+07	1.27 y	46:51	1.06	51.7		2.50	-	-	*	
13C-PCB-169	3.83e+07	1.26 y	46:51	1.08	98.9		2.50				98.9
PCB-188	2.01e+07	1.08 y	39:47	1.17	46.9		2.50	-	-	*	
13C-PCB-188	3.65e+07	1.07 y	39:47	0.93	110		2.50				110
PCB-189	1.82e+07	1.03 y	48:30	1.13	50.6		2.50	-	-	*	
13C-PCB-189	3.17e+07	1.08 y	48:30	0.81	109		2.50				109
PCB-202	1.23e+07	0.92 y	44:53	1.00	54.9		2.50	-	-	*	
13C-PCB-202	2.25e+07	0.92 y	44:53	0.60	104		2.50				104
13C-PCB-178	2.45e+07	1.06 y	42:25	0.67	103		2.50				103
13C-PCB-138	3.57e+07	1.30 y	41:39	-	82.7		2.50				

FAL ID: ST072718Z1 Filename: 27JUL18Z Sam:1 Acquired: 27-JUL-18 08:52:48 ICal: DAILY209FAL4-7-27-18 2 of 2
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	2.69e+07	0.91	y	50:10	1.12	49.6	2.50	-	-	*	
13C-PCB-205	4.86e+07	0.91	y	50:08	1.29	98.5	2.50				98.5
PCB-208	2.26e+07	1.35	y	49:12	1.01	47.2	2.50	-	-	*	
13C-PCB-208	4.76e+07	0.81	y	49:11	1.11	113	2.50				113
PCB-206	1.80e+07	1.35	y	51:20	1.02	47.7	2.50	-	-	*	
13C-PCB-206	3.72e+07	0.79	y	51:20	0.89	110	2.50				110
PCB-209	2.18e+07	1.18	y	52:31	1.11	53.3	2.50	-	-	*	
13C-PCB-209	3.70e+07	1.20	y	52:31	0.97	99.6	2.50				99.6
13C-PCB-194	3.82e+07	0.92	y	49:53	-	86.4	2.50				

Analyst: [illegible] Date: 7/27/18

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/27/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 27JUL18Z Sam:15 Analysis Date: 27-JUL-18 22:31:19

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.25	2.66-3.60	y	52.4	37.5 - 62.5
PCB-3	M/M+2	3.19	2.66-3.60	y	52.6	37.5 - 62.5
PCB-4	M/M+2	1.51	1.33-1.79	y	46.7	37.5 - 62.5
PCB-15	M/M+2	1.59	1.33-1.79	y	50.6	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	50.8	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	50.6	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	51.1	37.5 - 62.5
PCB-77	M/M+2	0.81	0.65-0.89	y	55.1	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	53.3	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	49.3	37.5 - 62.5
PCB-105	M+2/M+4	1.57	1.32-1.78	y	52.6	37.5 - 62.5
PCB-114	M+2/M+4	1.58	1.32-1.78	y	51.7	37.5 - 62.5
PCB-118	M+2/M+4	1.60	1.32-1.78	y	56.6	37.5 - 62.5
PCB-123	M+2/M+4	1.58	1.32-1.78	y	44.8	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	50.5	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	50.4	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	51.4	37.5 - 62.5
PCB-157	M+2/M+4	1.28	1.05-1.43	y	49.4	37.5 - 62.5
PCB-167	M+2/M+4	1.28	1.05-1.43	y	53.5	37.5 - 62.5
PCB-169	M+2/M+4	1.24	1.05-1.43	y	51.5	37.5 - 62.5
PCB-188	M+2/M+4	1.07	0.89-1.21	y	47.6	37.5 - 62.5
PCB-189	M+2/M+4	1.09	0.89-1.21	y	51.6	37.5 - 62.5
PCB-202	M+2/M+4	0.91	0.76-1.02	y	54.4	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	52.2	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	49.4	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	48.4	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	54.7	37.5 - 62.5

Analyst: [signature] Date: 7/28/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/27/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 27JUL18Z Sam:15 Analysis Date: 27-JUL-18 22:31:19

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.20	2.66-3.60	y	96.5	50.0 - 145
13C-PCB-3	M/M+2	3.23	2.66-3.60	y	93.8	50.0 - 145
13C-PCB-4	M/M+2	1.61	1.33-1.79	y	102	50.0 - 145
13C-PCB-15	M/M+2	1.67	1.33-1.79	y	98.0	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	92.8	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	103	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	102	50.0 - 145
13C-PCB-77	M/M+2	0.83	0.65-0.89	y	101	50.0 - 145
13C-PCB-81	M/M+2	0.83	0.65-0.89	y	99.6	50.0 - 145
13C-PCB-104	M+2/M+4	1.64	1.32-1.78	y	104	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	109	50.0 - 145
13C-PCB-114	M+2/M+4	1.63	1.32-1.78	y	106	50.0 - 145
13C-PCB-118	M+2/M+4	1.64	1.32-1.78	y	109	50.0 - 145
13C-PCB-123	M+2/M+4	1.63	1.32-1.78	y	105	50.0 - 145
13C-PCB-126	M+2/M+4	1.63	1.32-1.78	y	108	50.0 - 145
13C-PCB-155	M+2/M+4	1.26	1.05-1.43	y	104	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	101	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	103	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	104	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	104	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	113	50.0 - 145
13C-PCB-189	M+2/M+4	1.05	0.89-1.21	y	103	50.0 - 145
13C-PCB-202	M+2/M+4	0.89	0.76-1.02	y	109	50.0 - 145
13C-PCB-205	M+2/M+4	0.92	0.76-1.02	y	100.0	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	100	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	99.8	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	89.8	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.06	0.88-1.20	y	103	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	105	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	104	75.0 - 125

Analyst: [signature] Date: 7/28/18

FAL ID: ST072718Z2 Filename: 27JUL18Z Sam:15 Acquired: 27-JUL-18 22:31:19 ICal: DAILY209FAL4-7-27-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

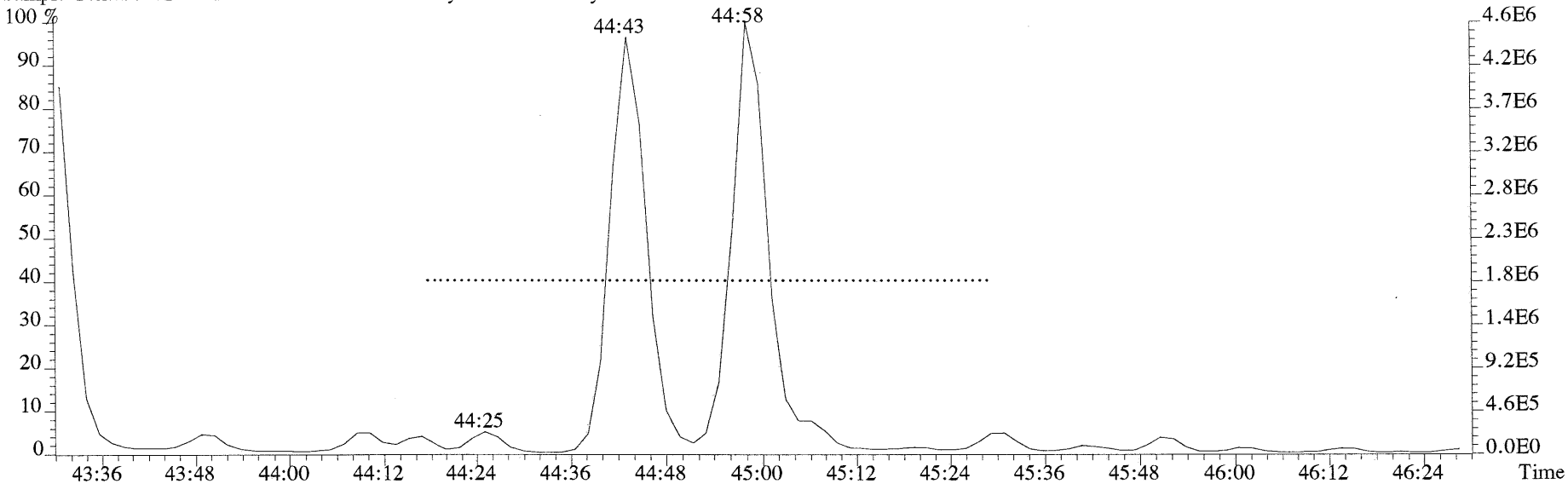
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.26e+07	3.25 y	14:32	1.17	52.4		2.50	-	-	*	
13C-PCB-1	6.97e+07	3.20 y	14:31	0.92	96.5		2.50				96.5
PCB-3	4.19e+07	3.19 y	16:58	1.16	52.6		2.50	-	-	*	
13C-PCB-3	6.85e+07	3.23 y	16:57	0.93	93.8		2.50				93.8
PCB-4	3.58e+07	1.51 y	18:11	1.42	46.7		2.50	-	-	*	
13C-PCB-4	5.40e+07	1.61 y	18:11	0.68	102		2.50				102
PCB-15	4.91e+07	1.59 y	23:45	1.26	50.6		2.50	-	-	*	
13C-PCB-15	7.69e+07	1.67 y	23:44	1.00	98.0		2.50				98.0
PCB-19	1.96e+07	1.07 y	22:05	1.19	50.8		2.50	-	-	*	
13C-PCB-19	3.23e+07	1.07 y	22:04	0.44	92.8		2.50				92.8
13C-PCB-9	7.84e+07	1.64 y	19:52	-	68.6		2.50				
PCB-37	3.86e+07	1.05 y	30:25	1.22	50.6		2.50	-	-	*	
13C-PCB-37	6.25e+07	1.09 y	30:24	1.72	103		2.50				103
PCB-54	2.53e+07	0.80 y	25:38	1.21	51.1		2.50	-	-	*	
13C-PCB-54	4.11e+07	0.81 y	25:35	1.14	102		2.50				102
PCB-104	1.46e+07	1.59 y	30:03	1.26	49.3		2.50	-	-	*	
13C-PCB-104	2.35e+07	1.64 y	30:02	0.64	104		2.50				104
13C-PCB-28	7.17e+07	1.06 y	26:41	1.96	103		2.50				103
13C-PCB-52	3.55e+07	0.81 y	28:58	-	63.7		2.50				
PCB-81	2.89e+07	0.81 y	36:11	1.24	53.3		2.50	-	-	*	
13C-PCB-81	4.37e+07	0.83 y	36:10	1.62	99.6		2.50				99.6
PCB-77	2.86e+07	0.81 y	36:45	1.18	55.1		2.50	-	-	*	
13C-PCB-77	4.41e+07	0.83 y	36:44	1.62	101		2.50				101
PCB-155	1.42e+07	1.28 y	34:13	1.16	50.4		2.50	-	-	*	
13C-PCB-155	2.43e+07	1.26 y	34:12	0.86	104		2.50				104
13C-PCB-111	3.30e+07	1.61 y	36:18	1.16	105		2.50				105
13C-PCB-101	2.71e+07	1.61 y	34:39	-	61.5		2.50				
PCB-123	2.49e+07	1.58 y	38:21	1.37	44.8		2.50	-	-	*	
13C-PCB-123	4.04e+07	1.63 y	38:21	1.46	105		2.50				105
PCB-118	2.81e+07	1.60 y	38:33	1.09	56.6		2.50	-	-	*	
13C-PCB-118	4.54e+07	1.64 y	38:31	1.59	109		2.50				109
PCB-114	2.57e+07	1.58 y	39:09	1.18	51.7		2.50	-	-	*	
13C-PCB-114	4.21e+07	1.63 y	39:09	1.51	106		2.50				106
PCB-105	2.52e+07	1.57 y	39:58	1.14	52.6		2.50	-	-	*	
13C-PCB-105	4.20e+07	1.61 y	39:57	1.47	109		2.50				109
PCB-126	2.34e+07	1.58 y	42:07	1.18	50.5		2.50	-	-	*	
13C-PCB-126	3.93e+07	1.63 y	42:05	1.39	108		2.50				108
PCB-167	1.76e+07	1.28 y	43:27	1.05	53.5		2.50	-	-	*	
13C-PCB-167	3.14e+07	1.28 y	43:27	1.15	104		2.50				104
PCB-156	1.66e+07	1.27 y	44:41	1.09	51.4		2.50	-	-	*	
13C-PCB-156	2.98e+07	1.28 y	44:40	1.12	101		2.50				101
PCB-157	1.74e+07	1.28 y	44:56	1.13	49.4		2.50	-	-	*	
13C-PCB-157	3.13e+07	1.27 y	44:56	1.15	103		2.50				103
PCB-169	1.61e+07	1.24 y	46:50	1.06	51.5		2.50	-	-	*	
13C-PCB-169	2.97e+07	1.27 y	46:48	1.08	104		2.50				104
PCB-188	1.53e+07	1.07 y	39:43	1.17	47.6		2.50	-	-	*	
13C-PCB-188	2.74e+07	1.08 y	39:42	0.93	113		2.50				113
PCB-189	1.28e+07	1.09 y	48:29	1.13	51.6		2.50	-	-	*	
13C-PCB-189	2.20e+07	1.05 y	48:27	0.81	103		2.50				103
PCB-202	9.40e+06	0.91 y	44:50	1.00	54.4		2.50	-	-	*	
13C-PCB-202	1.73e+07	0.89 y	44:48	0.60	109		2.50				109
13C-PCB-178	1.82e+07	1.08 y	42:20	0.67	104		2.50				104
13C-PCB-138	2.63e+07	1.28 y	41:34	-	60.8		2.50				

FAL ID: ST072718Z2 Filename: 27JUL18Z Sam:15 Acquired: 27-JUL-18 22:31:19 ICal: DAILY209FAL4-7-27-18 2 of 2
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

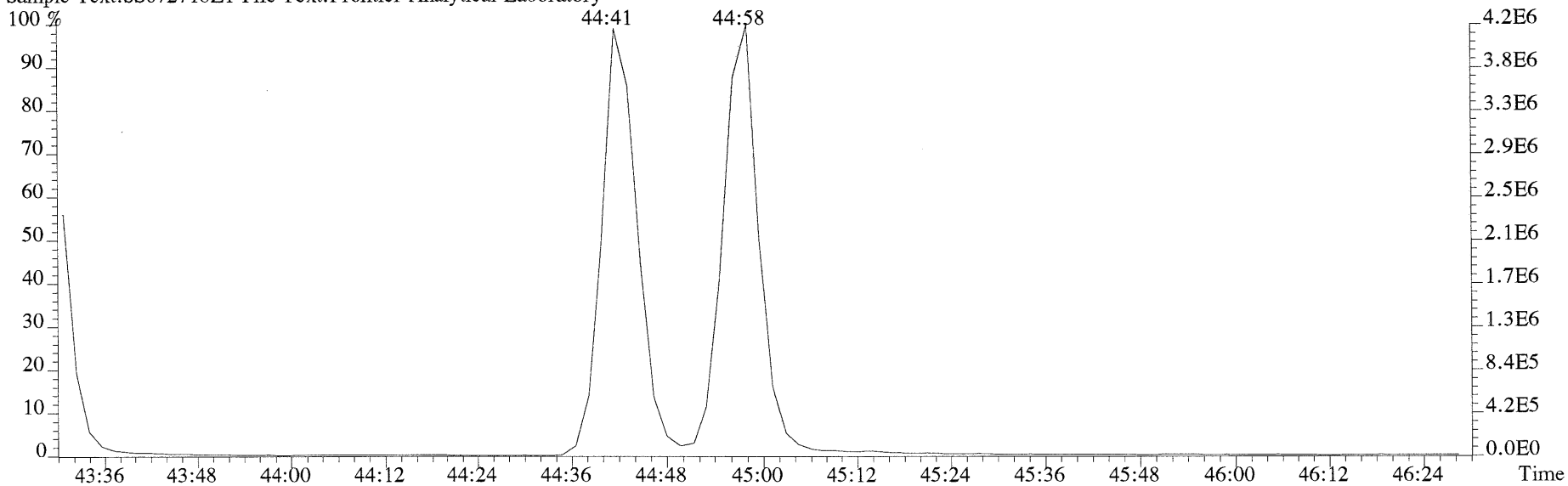
PCB-205	2.25e+07	0.90 y	50:07	1.12	52.2	2.50	-	-	*	
13C-PCB-205	3.87e+07	0.92 y	50:06	1.29	100.0	2.50				100.0
PCB-208	1.61e+07	1.36 y	49:09	1.01	48.4	2.50	-	-	*	
13C-PCB-208	3.31e+07	0.80 y	49:09	1.11	99.8	2.50				99.8
PCB-206	1.34e+07	1.37 y	51:18	1.02	49.4	2.50	-	-	*	
13C-PCB-206	2.66e+07	0.81 y	51:18	0.89	100	2.50				100
PCB-209	1.58e+07	1.20 y	52:30	1.11	54.7	2.50	-	-	*	
13C-PCB-209	2.61e+07	1.19 y	52:28	0.97	89.8	2.50				89.8
13C-PCB-194	2.99e+07	0.93 y	49:51	-	67.7	2.50				

Analyst: _____ Date: 7/28/18

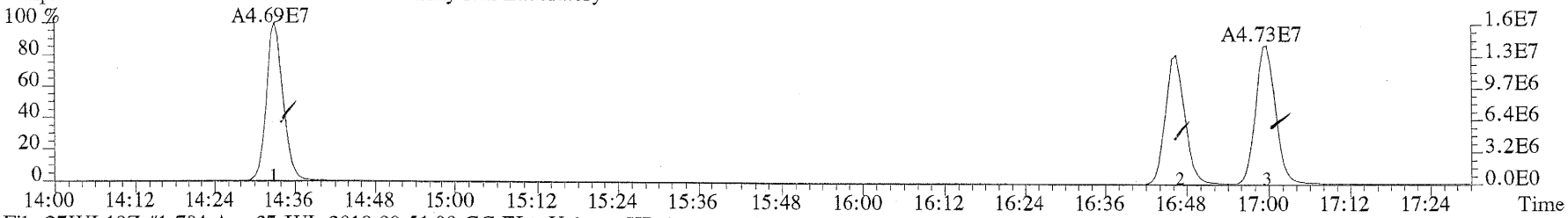
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



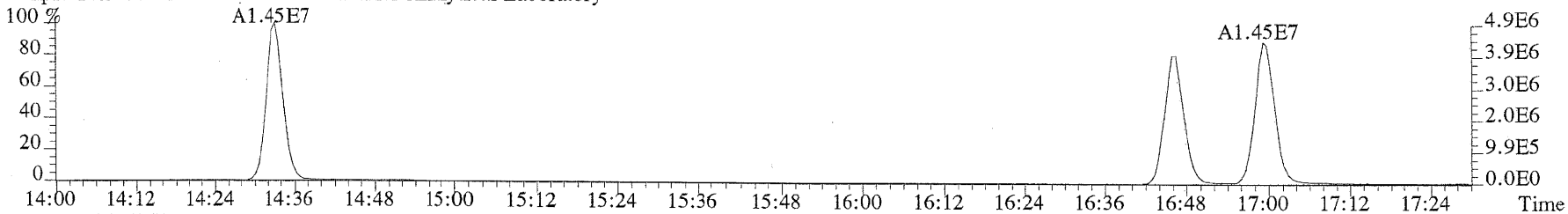
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



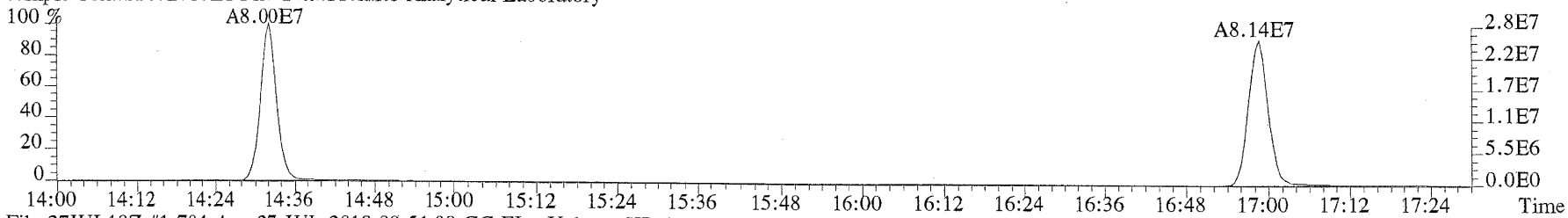
File:27JUL18Z #1-784 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



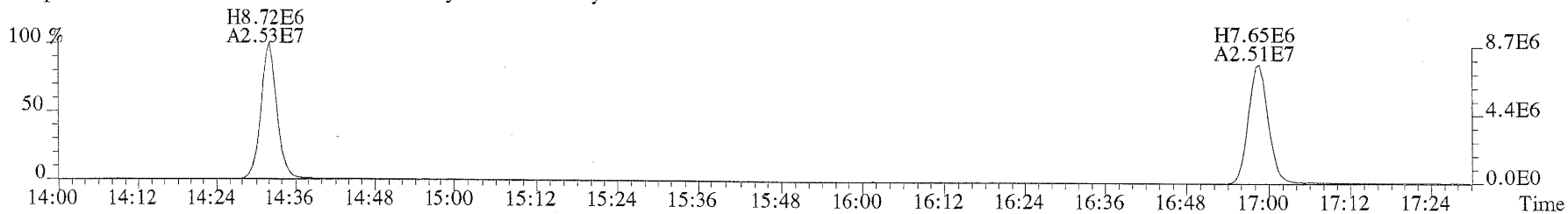
File:27JUL18Z #1-784 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



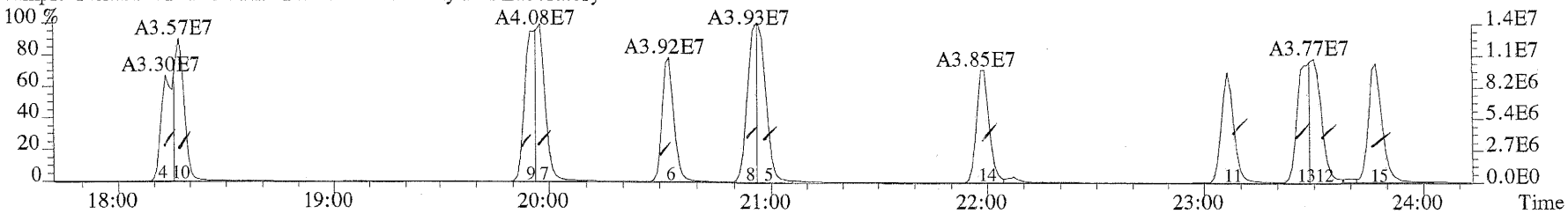
File:27JUL18Z #1-784 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



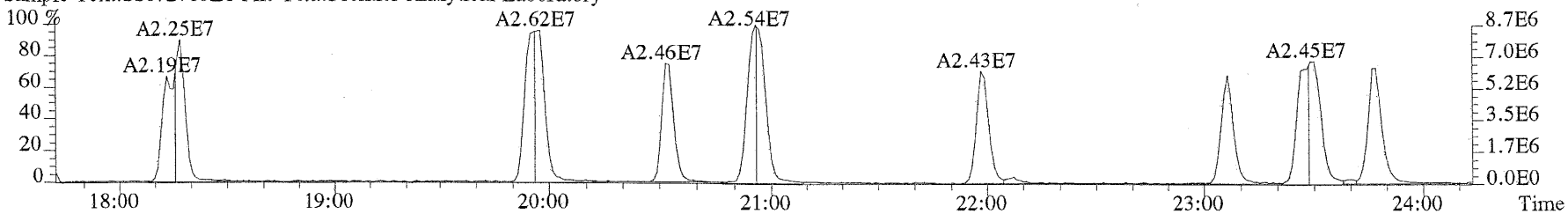
File:27JUL18Z #1-784 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



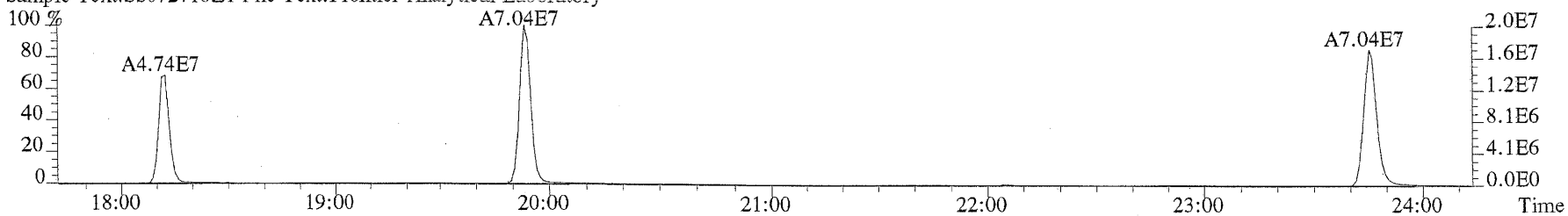
File:27JUL18Z #1-520 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



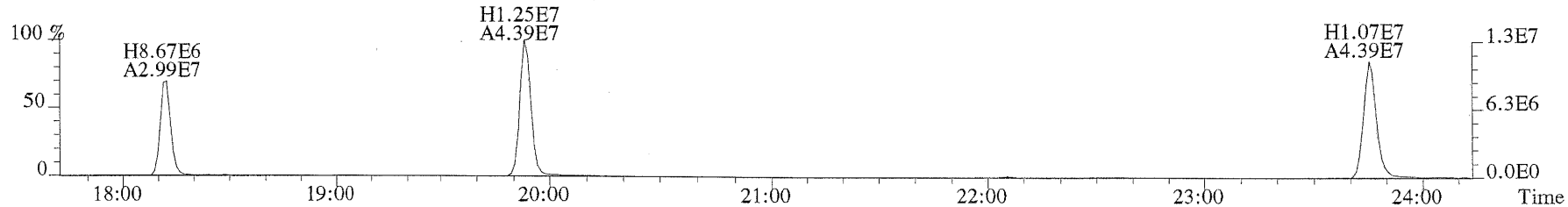
File:27JUL18Z #1-520 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



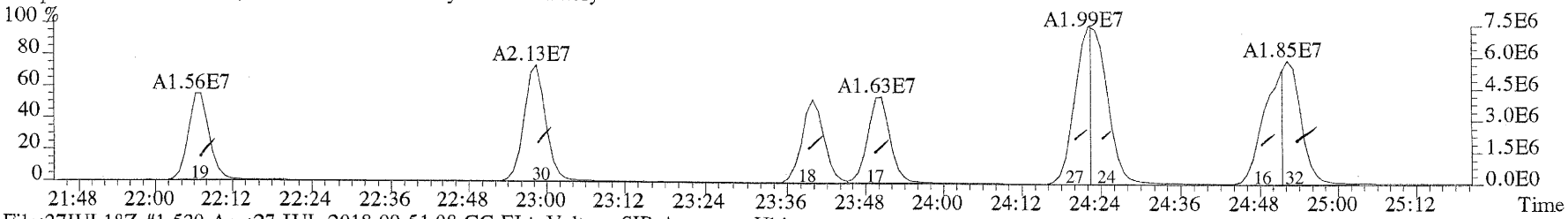
File:27JUL18Z #1-520 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



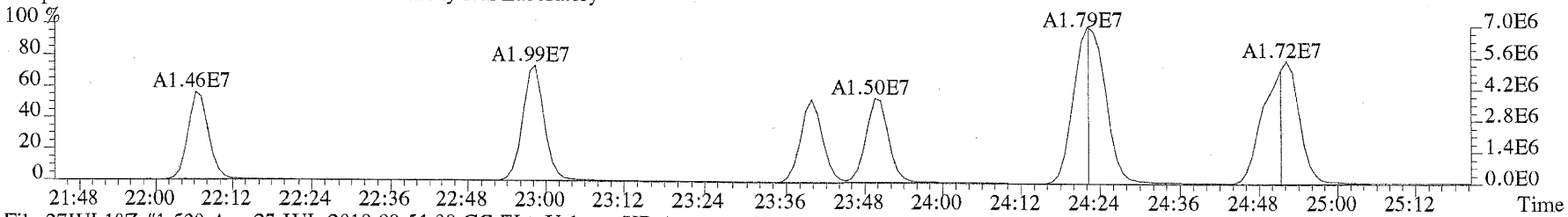
File:27JUL18Z #1-520 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



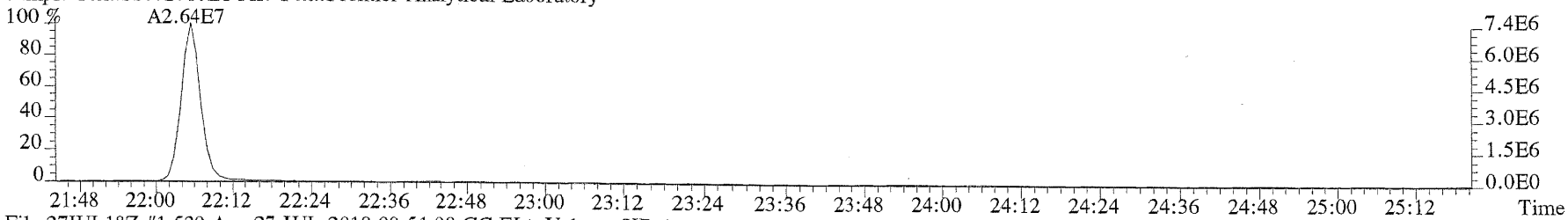
File:27JUL18Z #1-520 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



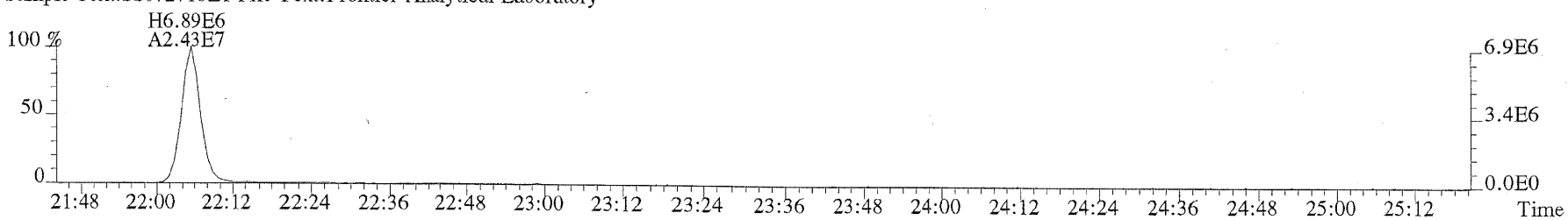
File:27JUL18Z #1-520 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



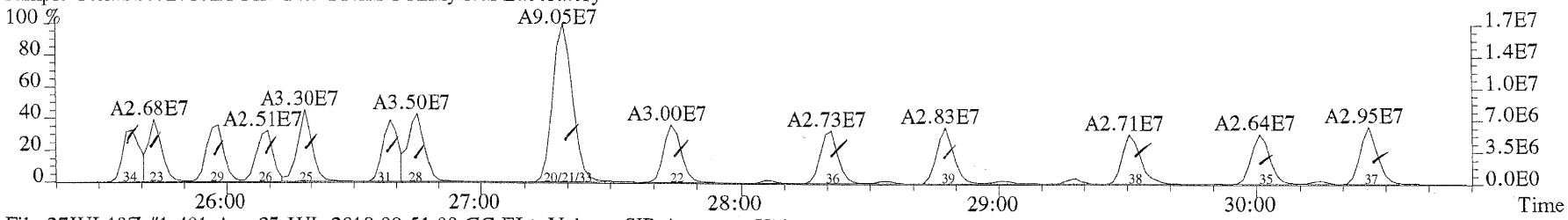
File:27JUL18Z #1-520 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



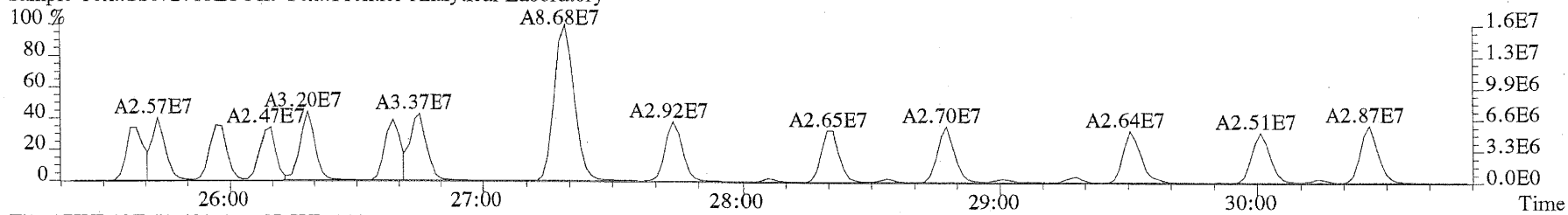
File:27JUL18Z #1-520 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



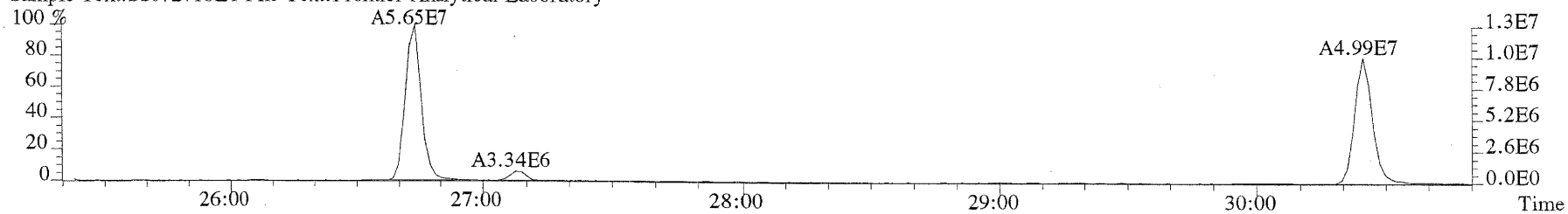
File:27JUL18Z #1-401 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



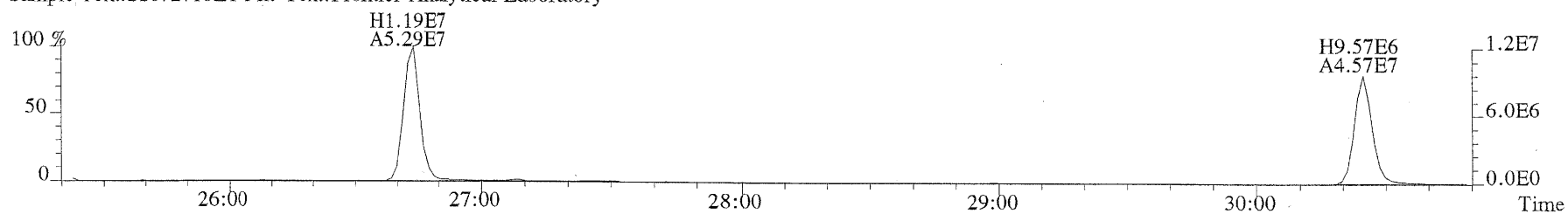
File:27JUL18Z #1-401 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



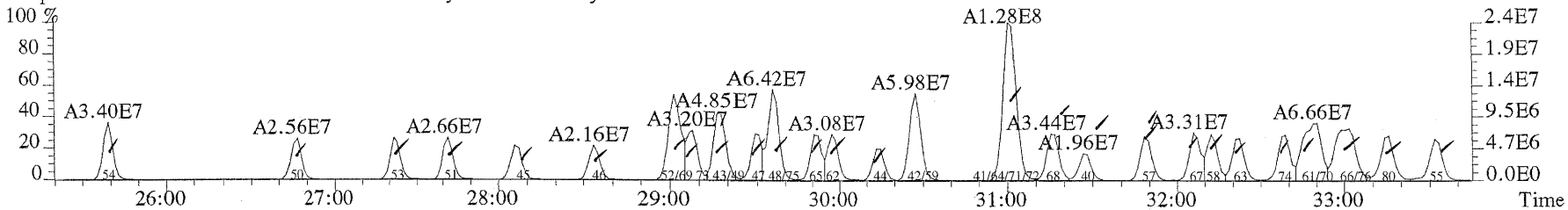
File:27JUL18Z #1-401 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



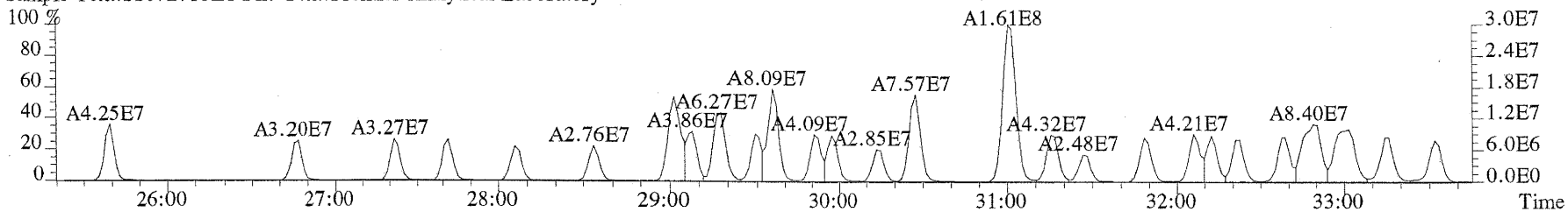
File:27JUL18Z #1-401 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



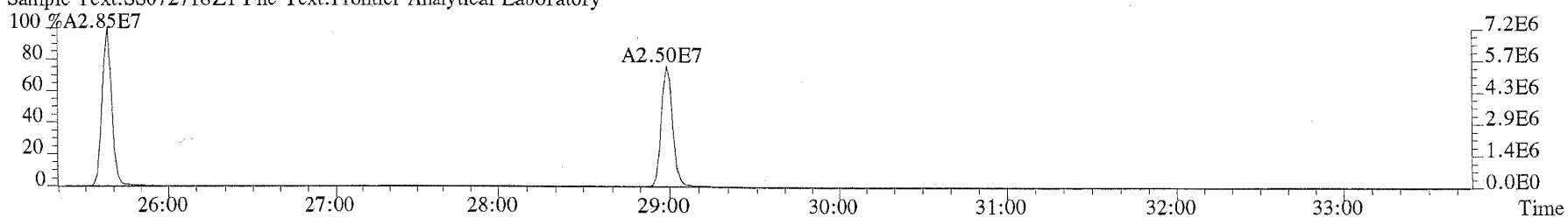
File:27JUL18Z #1-401 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



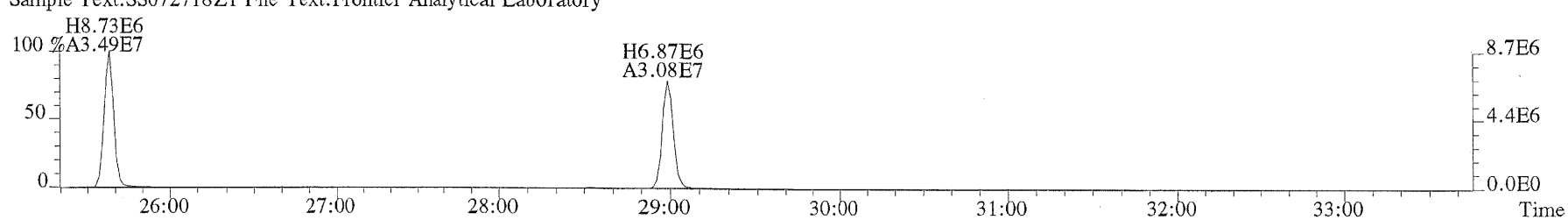
File:27JUL18Z #1-401 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



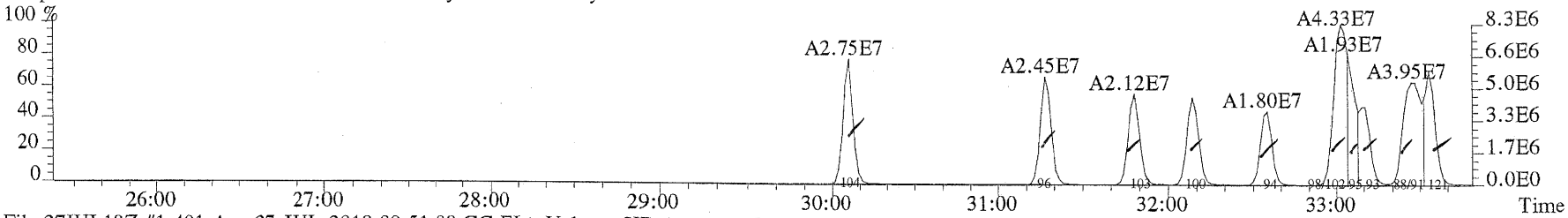
File:27JUL18Z #1-401 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



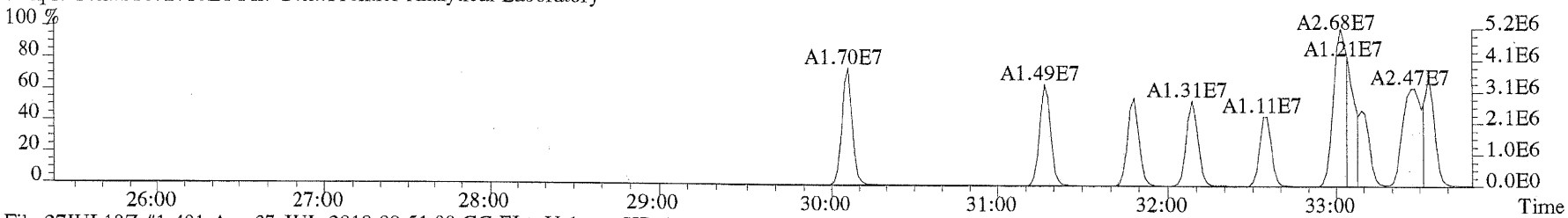
File:27JUL18Z #1-401 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



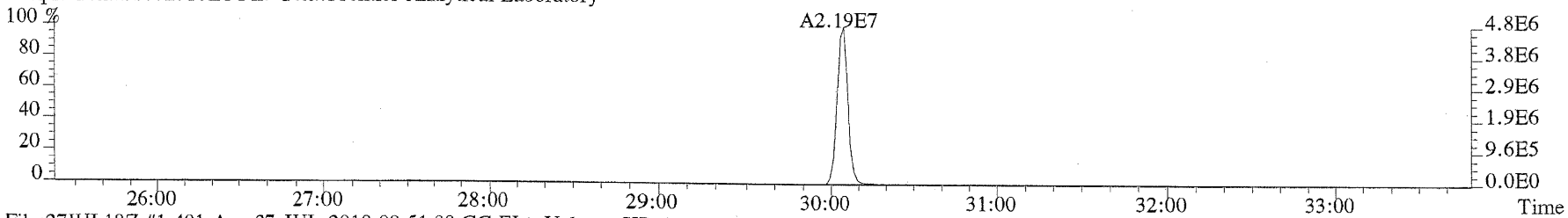
File:27JUL18Z #1-401 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



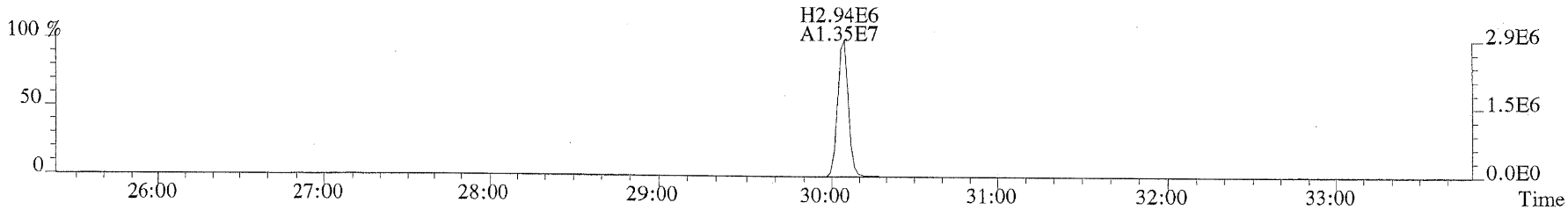
File:27JUL18Z #1-401 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



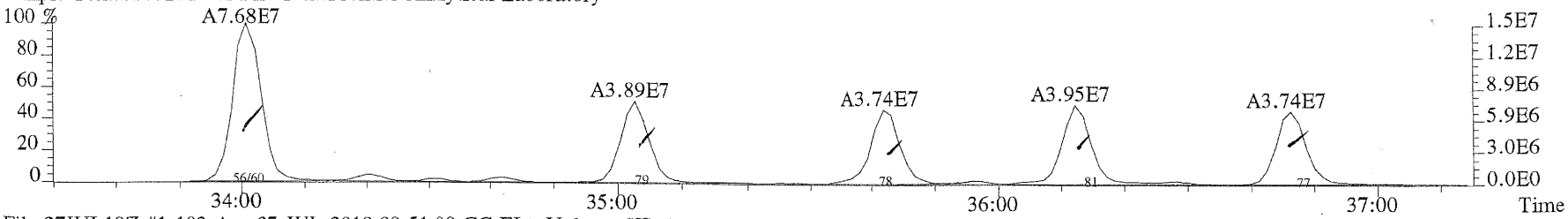
File:27JUL18Z #1-401 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



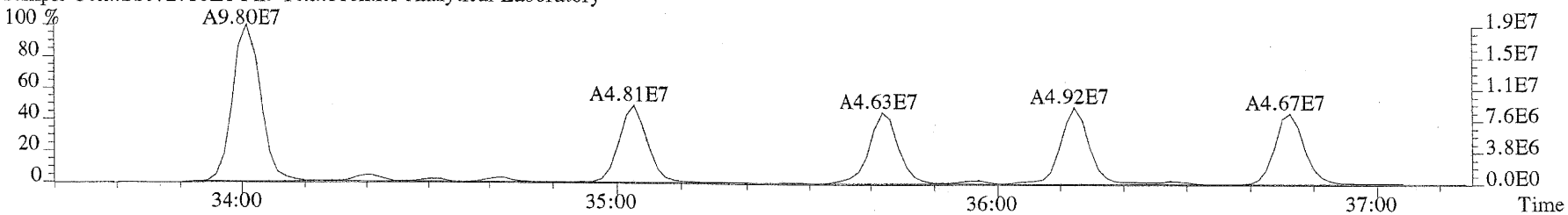
File:27JUL18Z #1-401 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



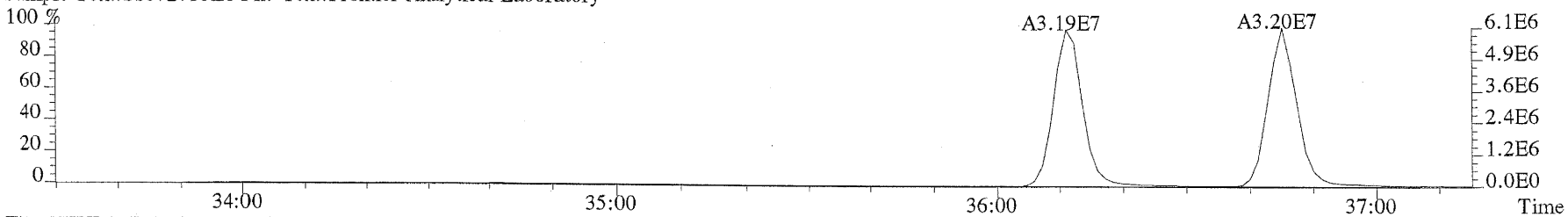
File:27JUL18Z #1-183 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



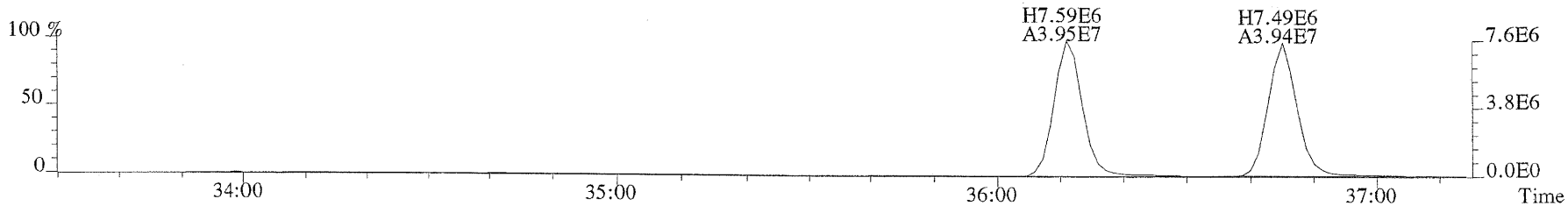
File:27JUL18Z #1-183 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



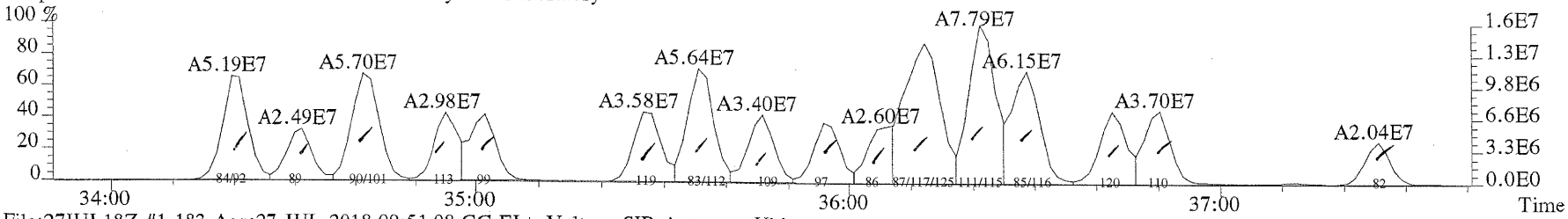
File:27JUL18Z #1-183 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



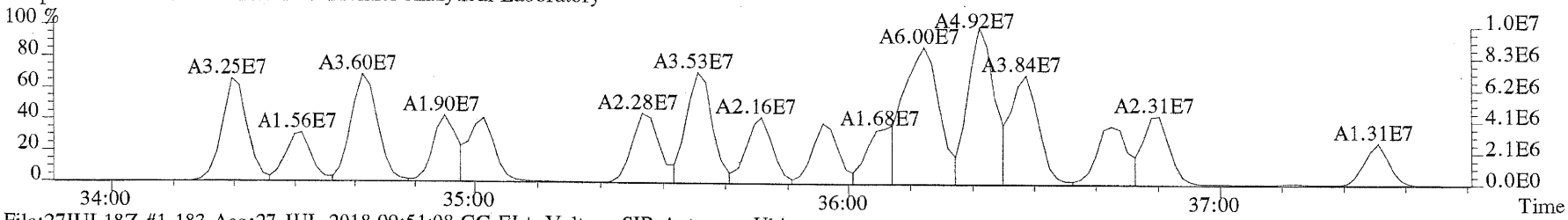
File:27JUL18Z #1-183 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



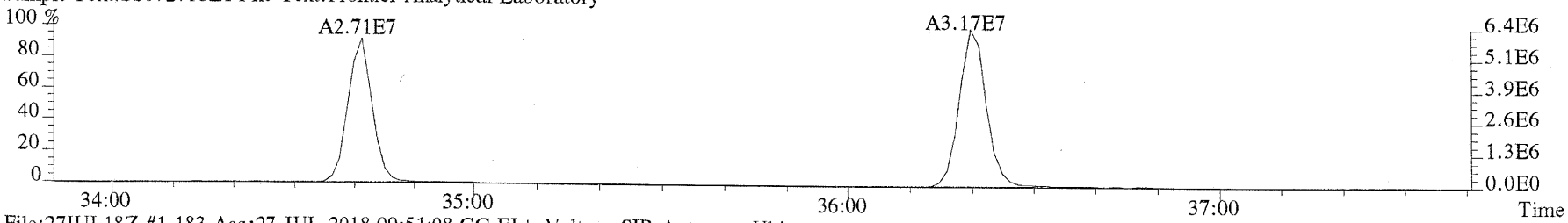
File:27JUL18Z #1-183 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



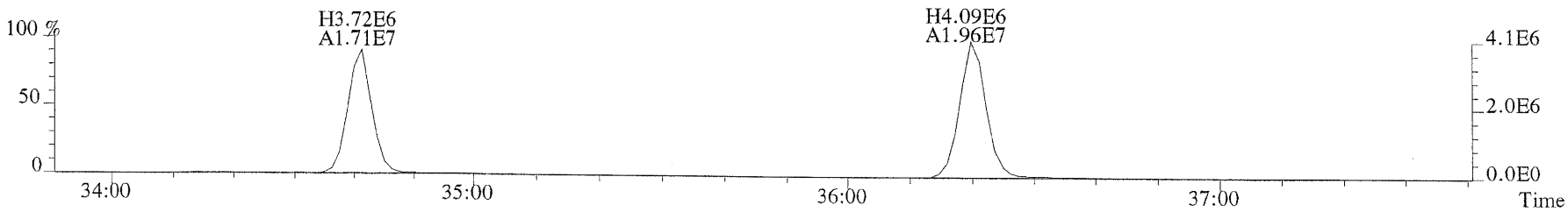
File:27JUL18Z #1-183 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



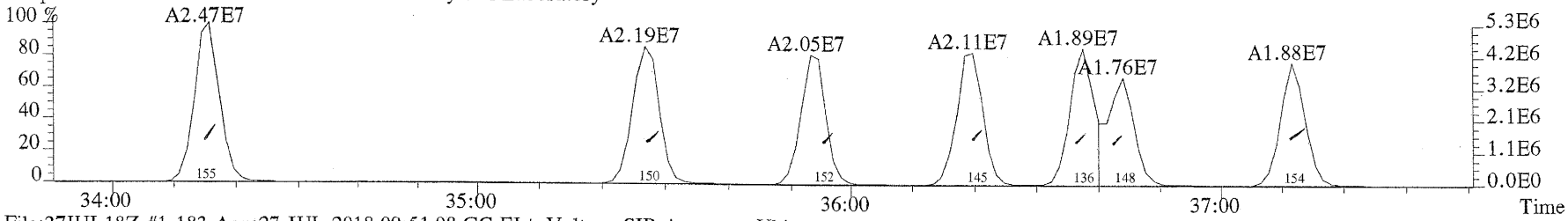
File:27JUL18Z #1-183 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



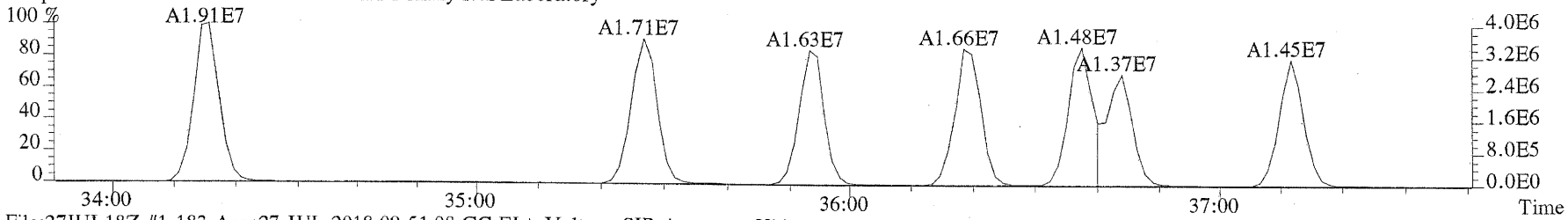
File:27JUL18Z #1-183 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



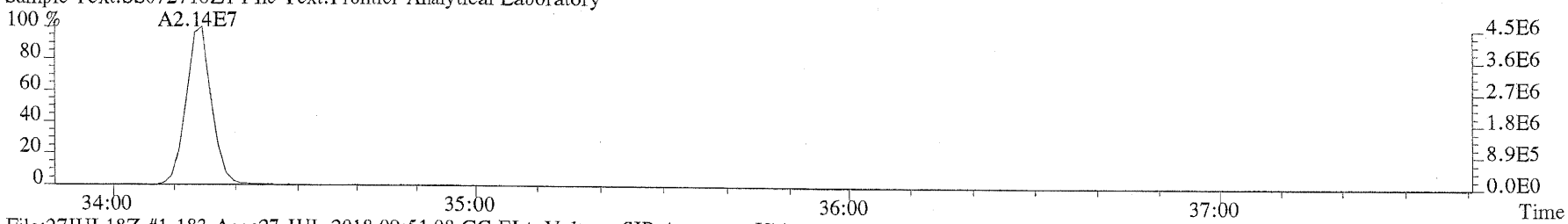
File:27JUL18Z #1-183 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



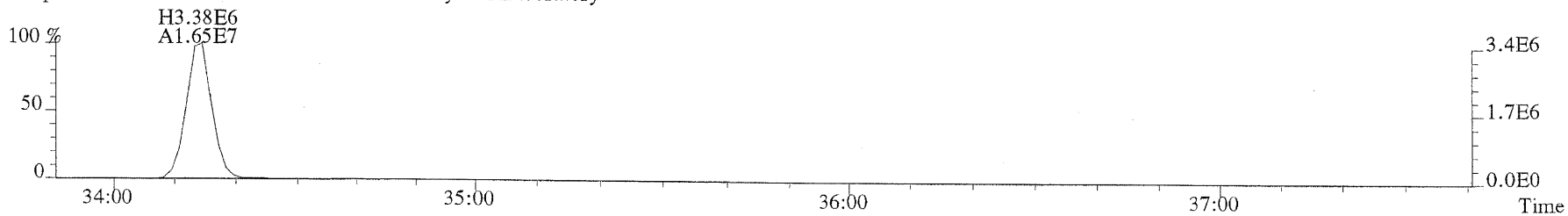
File:27JUL18Z #1-183 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



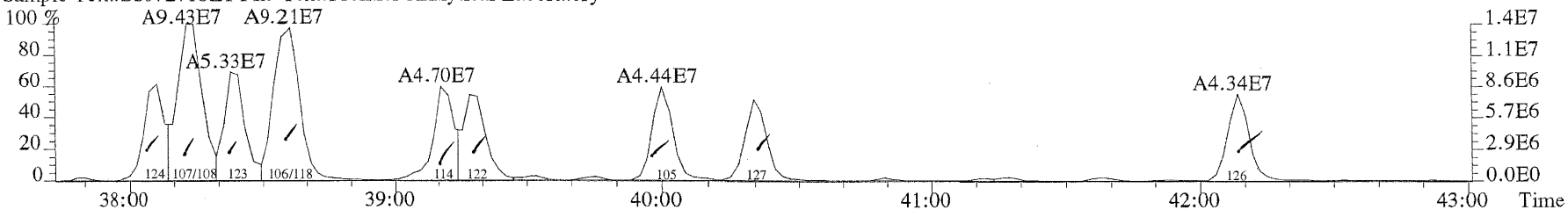
File:27JUL18Z #1-183 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



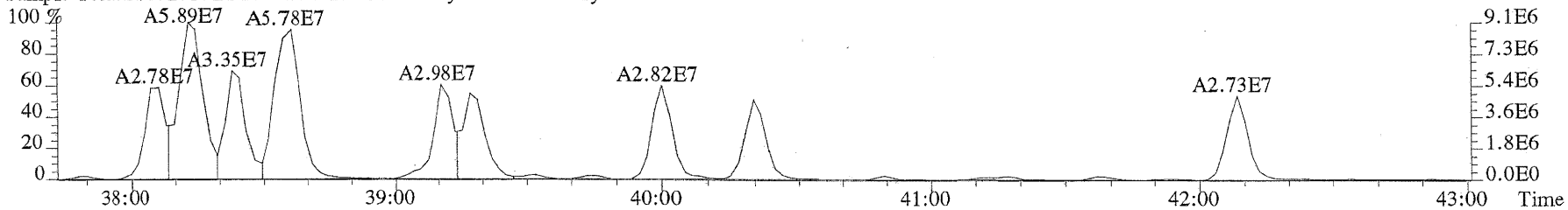
File:27JUL18Z #1-183 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



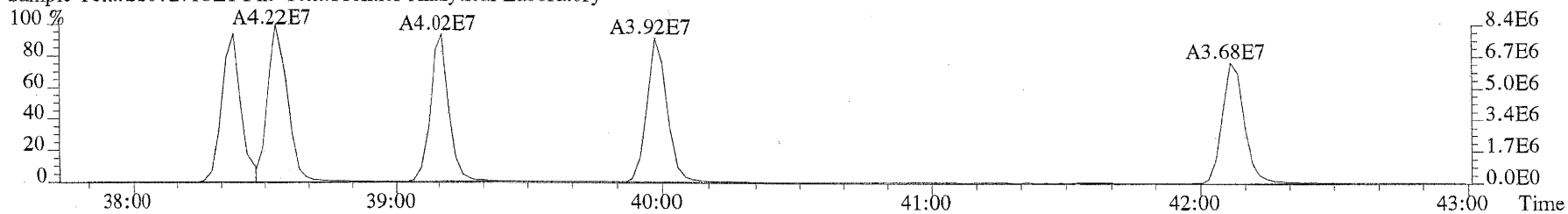
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



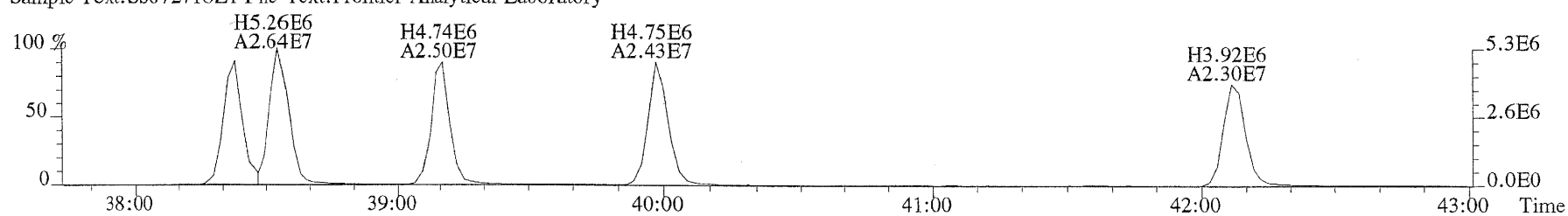
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



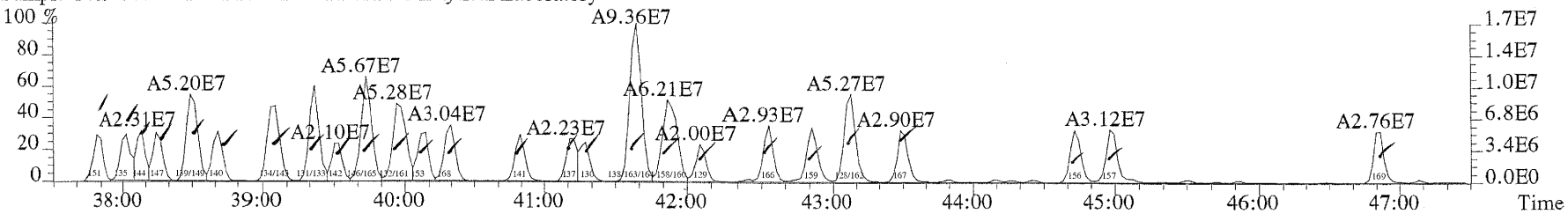
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



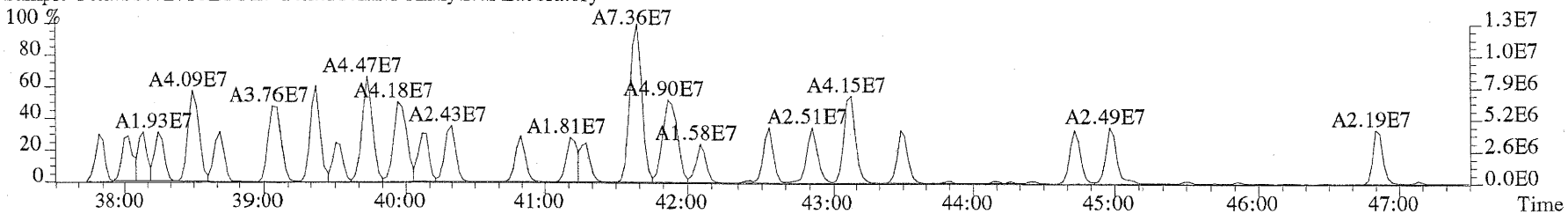
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



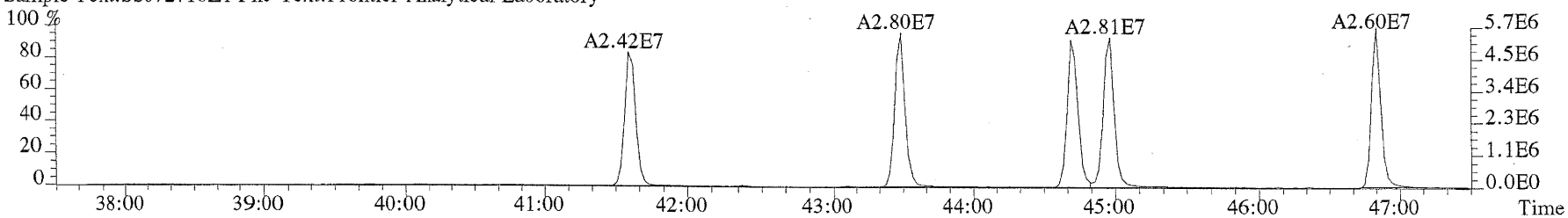
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



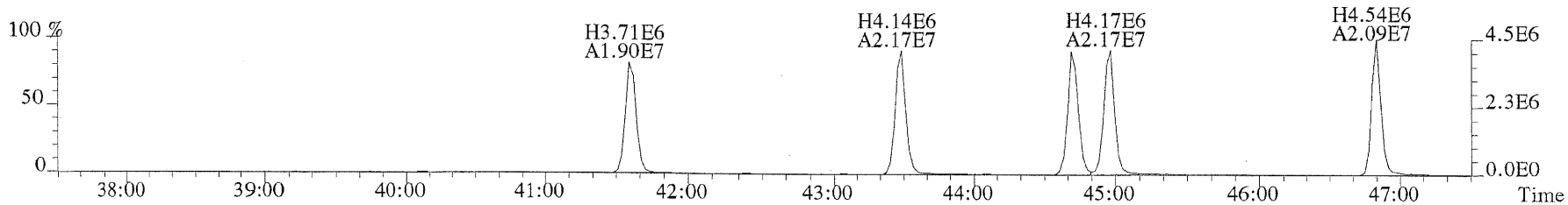
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



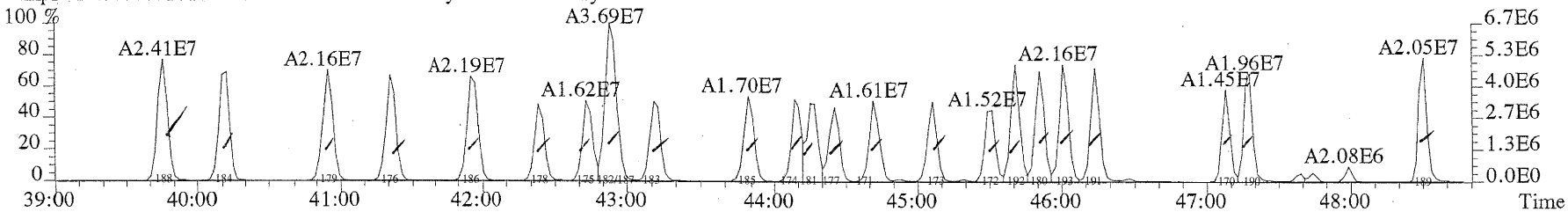
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



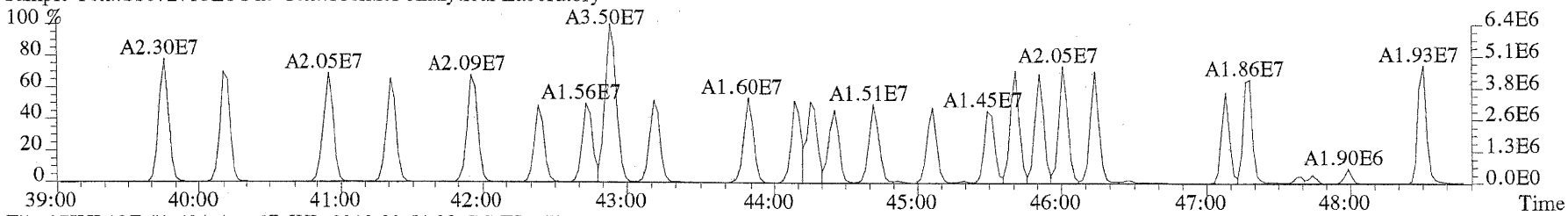
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



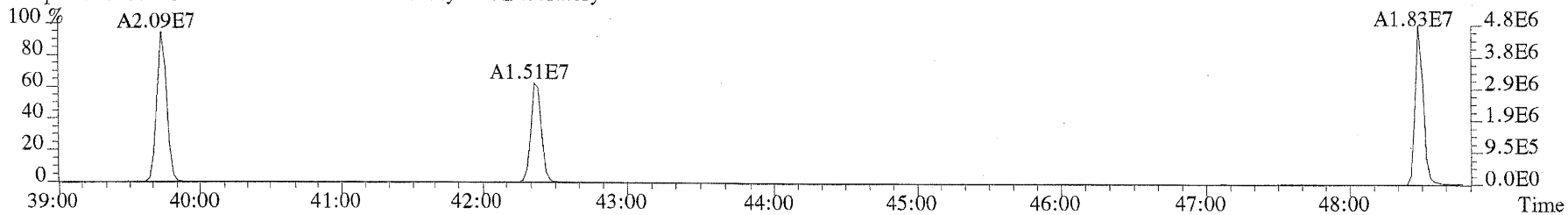
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



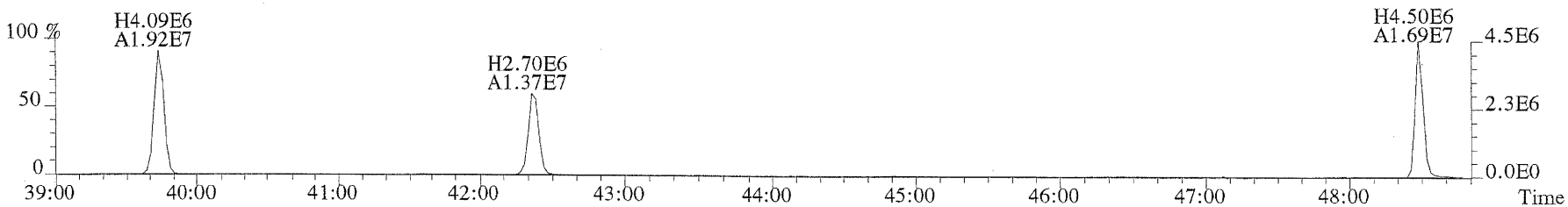
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



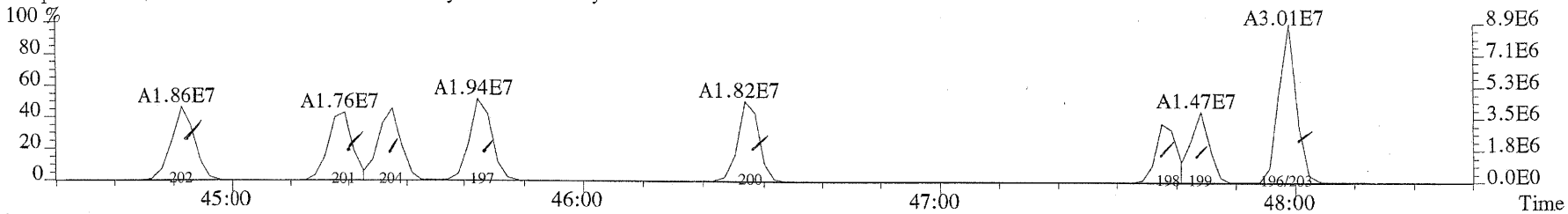
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



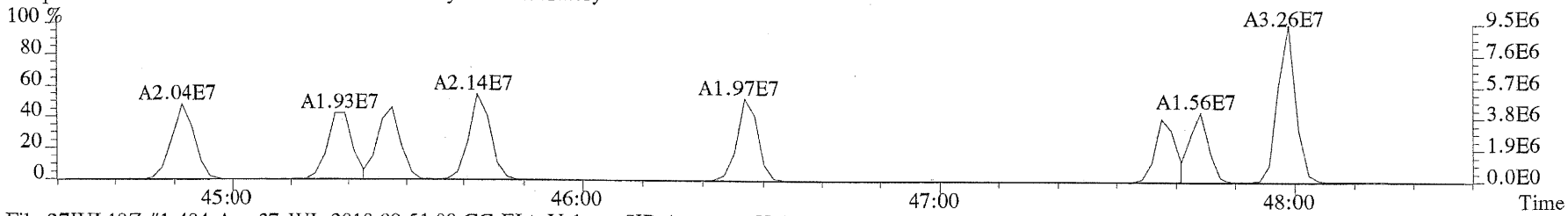
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



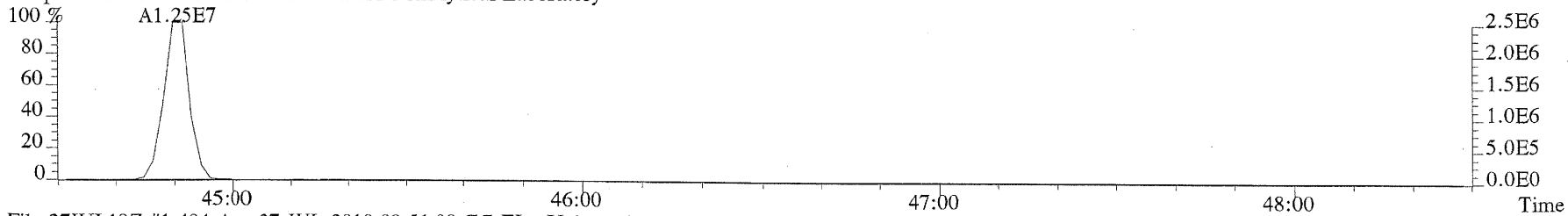
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



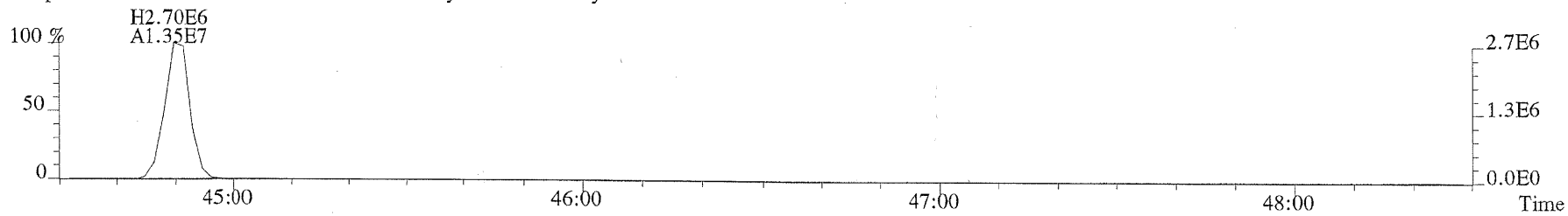
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



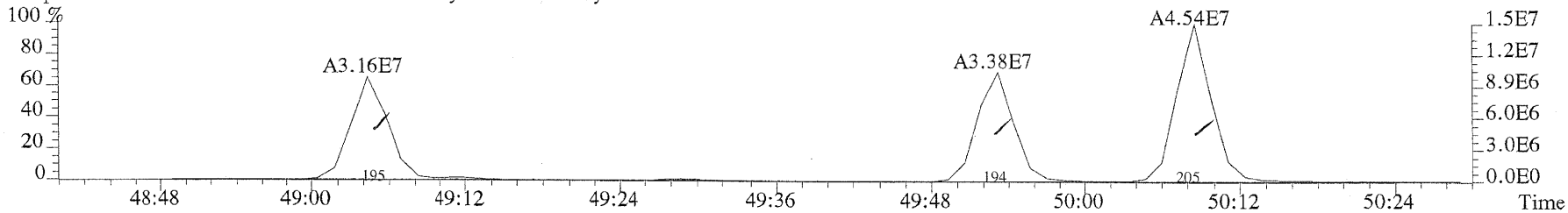
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



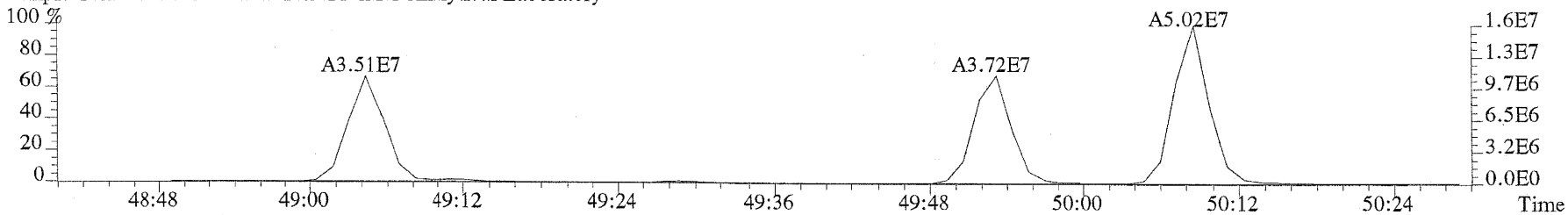
File:27JUL18Z #1-404 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



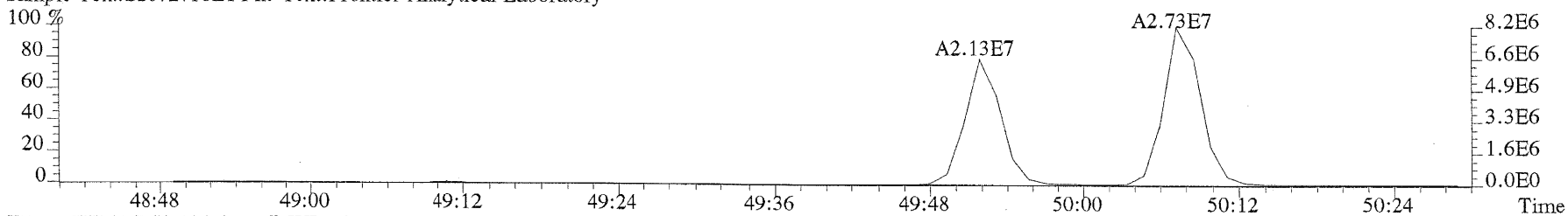
File:27JUL18Z #1-314 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



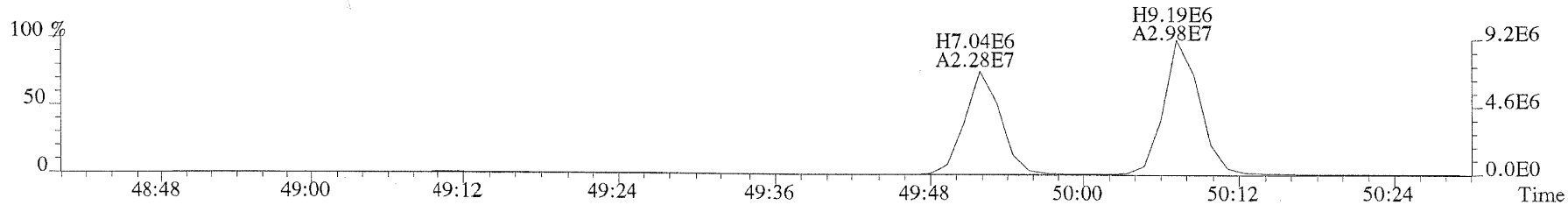
File:27JUL18Z #1-314 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



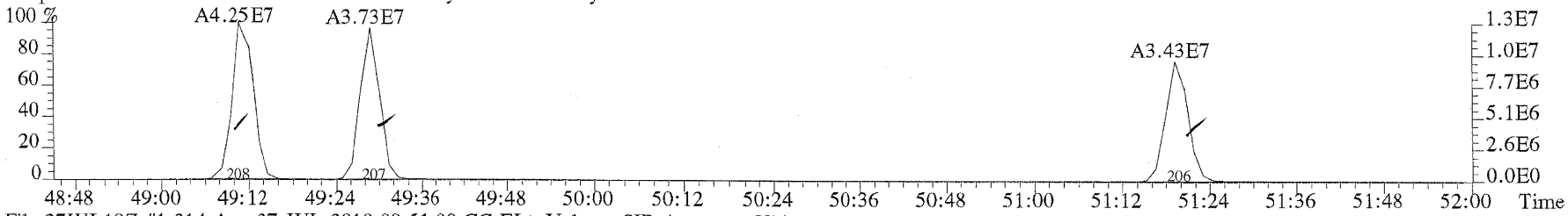
File:27JUL18Z #1-314 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



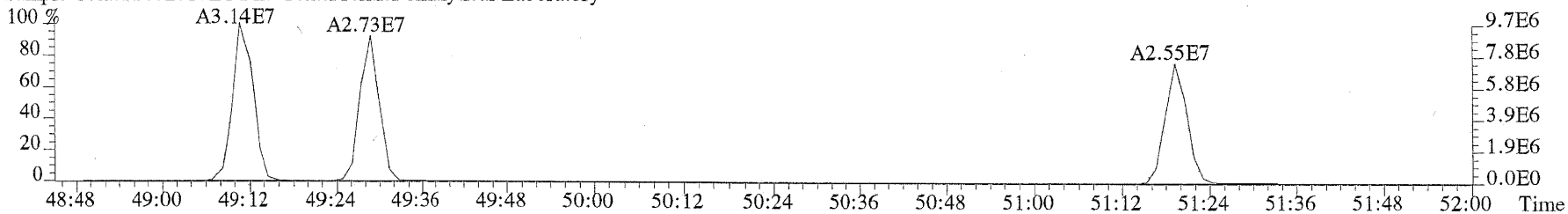
File:27JUL18Z #1-314 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



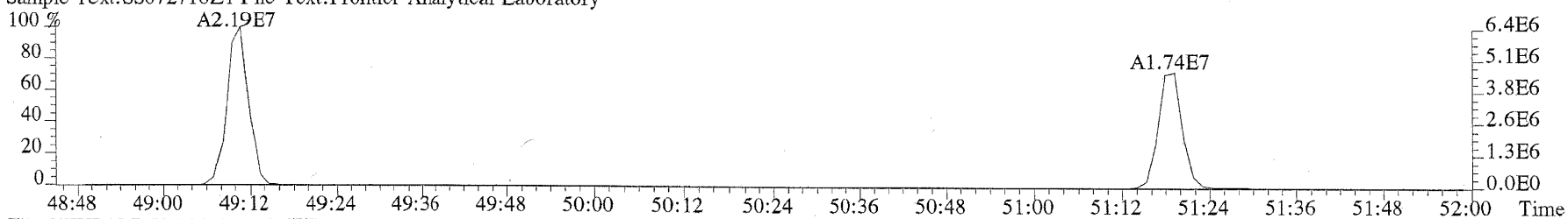
File:27JUL18Z #1-314 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



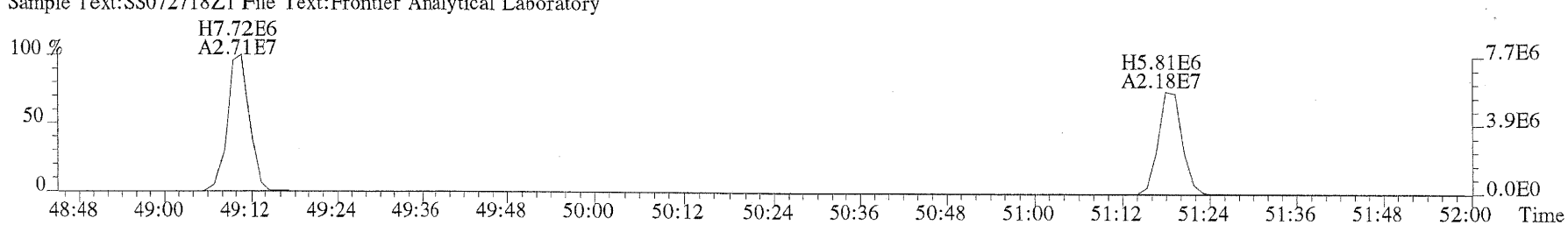
File:27JUL18Z #1-314 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



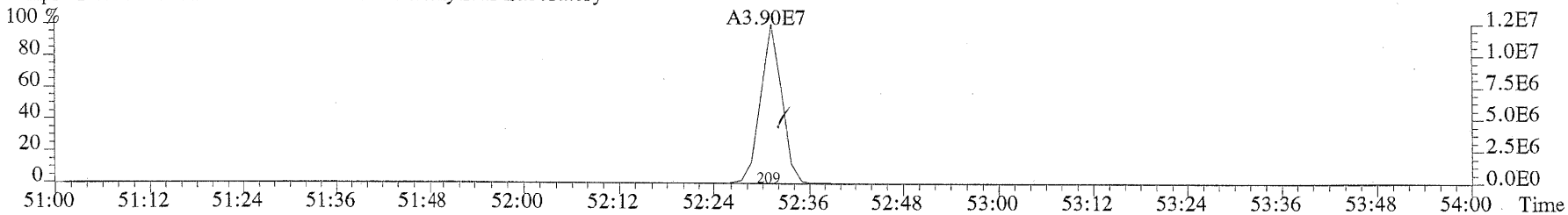
File:27JUL18Z #1-314 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



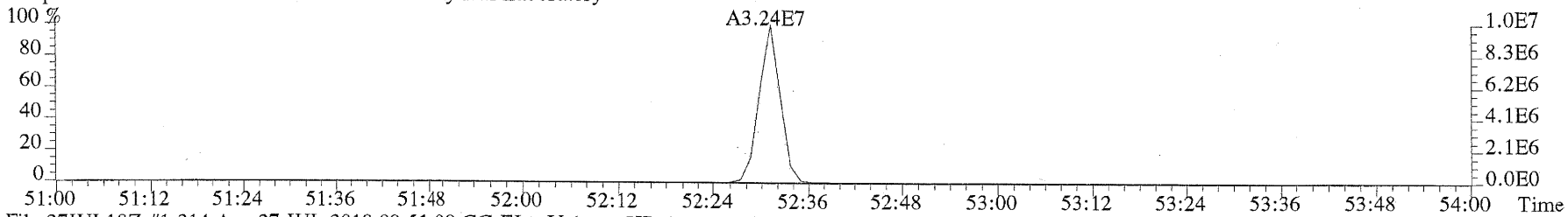
File:27JUL18Z #1-314 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



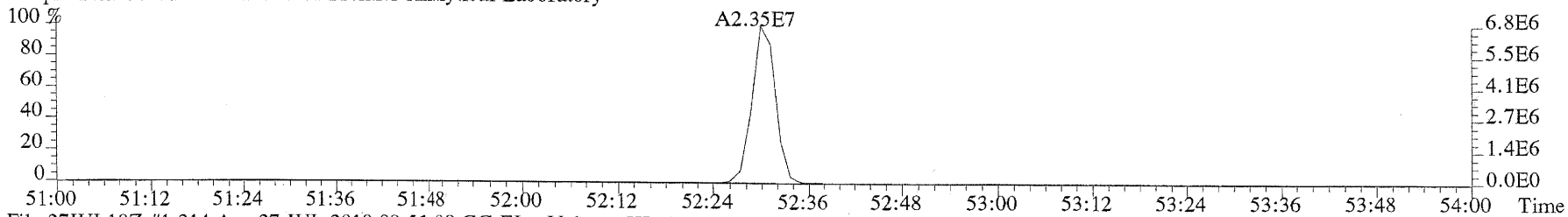
File:27JUL18Z #1-314 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



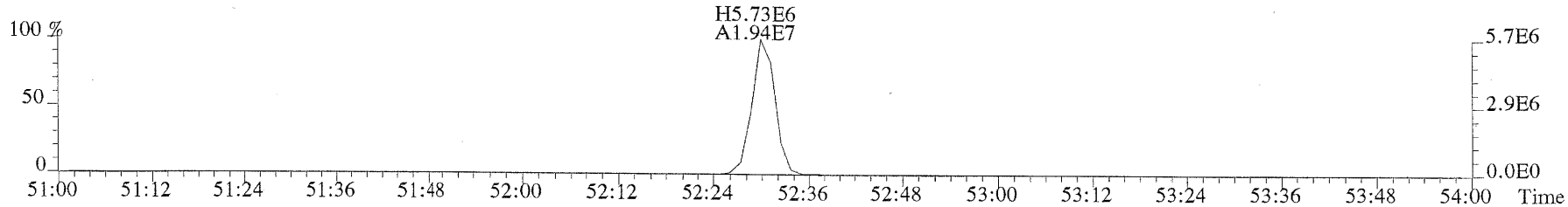
File:27JUL18Z #1-314 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



File:27JUL18Z #1-314 Acq:27-JUL-2018 09:51:08 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS072718Z1 File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/27/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 27JUL18Z Sam:15 Analysis Date: 27-JUL-18 22:31:19

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.25	2.66-3.60	y	52.4	37.5 - 62.5
PCB-3	M/M+2	3.19	2.66-3.60	y	52.6	37.5 - 62.5
PCB-4	M/M+2	1.51	1.33-1.79	y	46.7	37.5 - 62.5
PCB-15	M/M+2	1.59	1.33-1.79	y	50.6	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	50.8	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	50.6	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	51.1	37.5 - 62.5
PCB-77	M/M+2	0.81	0.65-0.89	y	55.1	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	53.3	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	49.3	37.5 - 62.5
PCB-105	M+2/M+4	1.57	1.32-1.78	y	52.6	37.5 - 62.5
PCB-114	M+2/M+4	1.58	1.32-1.78	y	51.7	37.5 - 62.5
PCB-118	M+2/M+4	1.60	1.32-1.78	y	56.6	37.5 - 62.5
PCB-123	M+2/M+4	1.58	1.32-1.78	y	44.8	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	50.5	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	50.4	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	51.4	37.5 - 62.5
PCB-157	M+2/M+4	1.28	1.05-1.43	y	49.4	37.5 - 62.5
PCB-167	M+2/M+4	1.28	1.05-1.43	y	53.5	37.5 - 62.5
PCB-169	M+2/M+4	1.24	1.05-1.43	y	51.5	37.5 - 62.5
PCB-188	M+2/M+4	1.07	0.89-1.21	y	47.6	37.5 - 62.5
PCB-189	M+2/M+4	1.09	0.89-1.21	y	51.6	37.5 - 62.5
PCB-202	M+2/M+4	0.91	0.76-1.02	y	54.4	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	52.2	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	49.4	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	48.4	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	54.7	37.5 - 62.5

Analyst: [signature] Date: 7/28/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/27/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 27JUL18Z Sam:15 Analysis Date: 27-JUL-18 22:31:19

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.20	2.66-3.60	y	96.5	50.0 - 145
13C-PCB-3	M/M+2	3.23	2.66-3.60	y	93.8	50.0 - 145
13C-PCB-4	M/M+2	1.61	1.33-1.79	y	102	50.0 - 145
13C-PCB-15	M/M+2	1.67	1.33-1.79	y	98.0	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	92.8	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	103	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	102	50.0 - 145
13C-PCB-77	M/M+2	0.83	0.65-0.89	y	101	50.0 - 145
13C-PCB-81	M/M+2	0.83	0.65-0.89	y	99.6	50.0 - 145
13C-PCB-104	M+2/M+4	1.64	1.32-1.78	y	104	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	109	50.0 - 145
13C-PCB-114	M+2/M+4	1.63	1.32-1.78	y	106	50.0 - 145
13C-PCB-118	M+2/M+4	1.64	1.32-1.78	y	109	50.0 - 145
13C-PCB-123	M+2/M+4	1.63	1.32-1.78	y	105	50.0 - 145
13C-PCB-126	M+2/M+4	1.63	1.32-1.78	y	108	50.0 - 145
13C-PCB-155	M+2/M+4	1.26	1.05-1.43	y	104	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	101	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	103	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	104	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	104	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	113	50.0 - 145
13C-PCB-189	M+2/M+4	1.05	0.89-1.21	y	103	50.0 - 145
13C-PCB-202	M+2/M+4	0.89	0.76-1.02	y	109	50.0 - 145
13C-PCB-205	M+2/M+4	0.92	0.76-1.02	y	100.0	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	100	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	99.8	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	89.8	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.06	0.88-1.20	y	103	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	105	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	104	75.0 - 125

Analyst: [illegible] Date: 7/28/18

FAL ID: ST072718Z2 Filename: 27JUL18Z Sam:15 Acquired: 27-JUL-18 22:31:19 ICal: DAILY209FAL4-7-27-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.26e+07	3.25 y	14:32	1.17	52.4		2.50	-	-	*	
13C-PCB-1	6.97e+07	3.20 y	14:31	0.92	96.5		2.50				96.5
PCB-3	4.19e+07	3.19 y	16:58	1.16	52.6		2.50	-	-	*	
13C-PCB-3	6.85e+07	3.23 y	16:57	0.93	93.8		2.50				93.8
PCB-4	3.58e+07	1.51 y	18:11	1.42	46.7		2.50	-	-	*	
13C-PCB-4	5.40e+07	1.61 y	18:11	0.68	102		2.50				102
PCB-15	4.91e+07	1.59 y	23:45	1.26	50.6		2.50	-	-	*	
13C-PCB-15	7.69e+07	1.67 y	23:44	1.00	98.0		2.50				98.0
PCB-19	1.96e+07	1.07 y	22:05	1.19	50.8		2.50	-	-	*	
13C-PCB-19	3.23e+07	1.07 y	22:04	0.44	92.8		2.50				92.8
13C-PCB-9	7.84e+07	1.64 y	19:52	-	68.6		2.50				
PCB-37	3.86e+07	1.05 y	30:25	1.22	50.6		2.50	-	-	*	
13C-PCB-37	6.25e+07	1.09 y	30:24	1.72	103		2.50				103
PCB-54	2.53e+07	0.80 y	25:38	1.21	51.1		2.50	-	-	*	
13C-PCB-54	4.11e+07	0.81 y	25:35	1.14	102		2.50				102
PCB-104	1.46e+07	1.59 y	30:03	1.26	49.3		2.50	-	-	*	
13C-PCB-104	2.35e+07	1.64 y	30:02	0.64	104		2.50				104
13C-PCB-28	7.17e+07	1.06 y	26:41	1.96	103		2.50				103
13C-PCB-52	3.55e+07	0.81 y	28:58	-	63.7		2.50				
PCB-81	2.89e+07	0.81 y	36:11	1.24	53.3		2.50	-	-	*	
13C-PCB-81	4.37e+07	0.83 y	36:10	1.62	99.6		2.50				99.6
PCB-77	2.86e+07	0.81 y	36:45	1.18	55.1		2.50	-	-	*	
13C-PCB-77	4.41e+07	0.83 y	36:44	1.62	101		2.50				101
PCB-155	1.42e+07	1.28 y	34:13	1.16	50.4		2.50	-	-	*	
13C-PCB-155	2.43e+07	1.26 y	34:12	0.86	104		2.50				104
13C-PCB-111	3.30e+07	1.61 y	36:18	1.16	105		2.50				105
13C-PCB-101	2.71e+07	1.61 y	34:39	-	61.5		2.50				
PCB-123	2.49e+07	1.58 y	38:21	1.37	44.8		2.50	-	-	*	
13C-PCB-123	4.04e+07	1.63 y	38:21	1.46	105		2.50				105
PCB-118	2.81e+07	1.60 y	38:33	1.09	56.6		2.50	-	-	*	
13C-PCB-118	4.54e+07	1.64 y	38:31	1.59	109		2.50				109
PCB-114	2.57e+07	1.58 y	39:09	1.18	51.7		2.50	-	-	*	
13C-PCB-114	4.21e+07	1.63 y	39:09	1.51	106		2.50				106
PCB-105	2.52e+07	1.57 y	39:58	1.14	52.6		2.50	-	-	*	
13C-PCB-105	4.20e+07	1.61 y	39:57	1.47	109		2.50				109
PCB-126	2.34e+07	1.58 y	42:07	1.18	50.5		2.50	-	-	*	
13C-PCB-126	3.93e+07	1.63 y	42:05	1.39	108		2.50				108
PCB-167	1.76e+07	1.28 y	43:27	1.05	53.5		2.50	-	-	*	
13C-PCB-167	3.14e+07	1.28 y	43:27	1.15	104		2.50				104
PCB-156	1.66e+07	1.27 y	44:41	1.09	51.4		2.50	-	-	*	
13C-PCB-156	2.98e+07	1.28 y	44:40	1.12	101		2.50				101
PCB-157	1.74e+07	1.28 y	44:56	1.13	49.4		2.50	-	-	*	
13C-PCB-157	3.13e+07	1.27 y	44:56	1.15	103		2.50				103
PCB-169	1.61e+07	1.24 y	46:50	1.06	51.5		2.50	-	-	*	
13C-PCB-169	2.97e+07	1.27 y	46:48	1.08	104		2.50				104
PCB-188	1.53e+07	1.07 y	39:43	1.17	47.6		2.50	-	-	*	
13C-PCB-188	2.74e+07	1.08 y	39:42	0.93	113		2.50				113
PCB-189	1.28e+07	1.09 y	48:29	1.13	51.6		2.50	-	-	*	
13C-PCB-189	2.20e+07	1.05 y	48:27	0.81	103		2.50				103
PCB-202	9.40e+06	0.91 y	44:50	1.00	54.4		2.50	-	-	*	
13C-PCB-202	1.73e+07	0.89 y	44:48	0.60	109		2.50				109
13C-PCB-178	1.82e+07	1.08 y	42:20	0.67	104		2.50				104
13C-PCB-138	2.63e+07	1.28 y	41:34	-	60.8		2.50				

FAL ID: ST072718Z2 Filename: 27JUL18Z Sam:15 Acquired: 27-JUL-18 22:31:19 ICal: DAILY209FAL4-7-27-18 2 of 2
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 11703 GC Column: DB1MS Amount: 1.000

PCB-205	2.25e+07	0.90	y	50:07	1.12	52.2	2.50	-	-	*	
13C-PCB-205	3.87e+07	0.92	y	50:06	1.29	100.0	2.50				100.0
PCB-208	1.61e+07	1.36	y	49:09	1.01	48.4	2.50	-	-	*	
13C-PCB-208	3.31e+07	0.80	y	49:09	1.11	99.8	2.50				99.8
PCB-206	1.34e+07	1.37	y	51:18	1.02	49.4	2.50	-	-	*	
13C-PCB-206	2.66e+07	0.81	y	51:18	0.89	100	2.50				100
PCB-209	1.58e+07	1.20	y	52:30	1.11	54.7	2.50	-	-	*	
13C-PCB-209	2.61e+07	1.19	y	52:28	0.97	89.8	2.50				89.8
13C-PCB-194	2.99e+07	0.93	y	49:51	-	67.7	2.50				

Analyst: [signature] Date: 7/28/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:27JUL18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

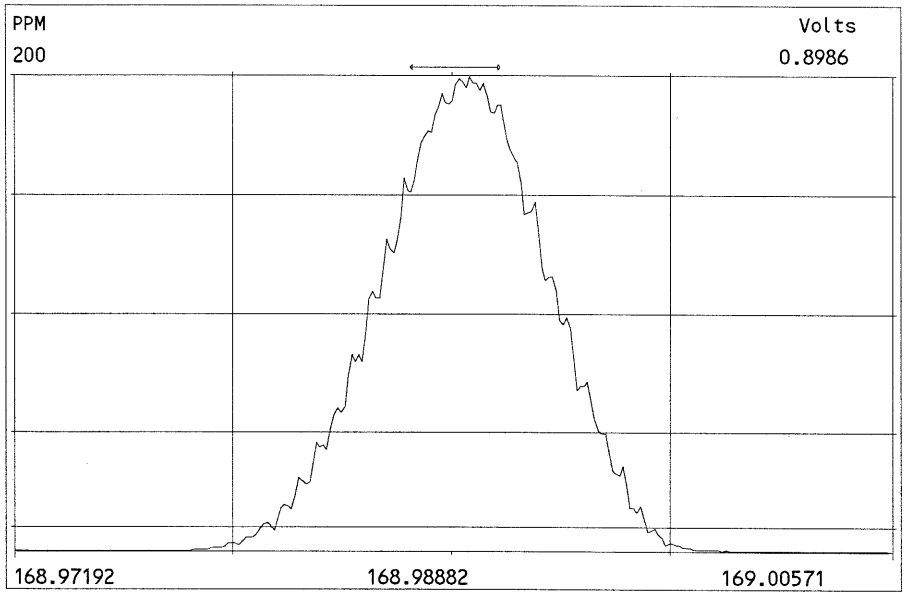
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
27JUL18Z	1	ST072718Z1	1668 CS3 170805A	27-JUL-18 08:52:48	ST072718Z1	ST072718Z2	BS
27JUL18Z	2	SS072718Z1	Daily 209 171222A	27-JUL-18 09:51:08	ST072718Z1	ST072718Z2	BS
27JUL18Z	3	04584-001-0001-OPR	OPR	27-JUL-18 10:49:29	ST072718Z1	ST072718Z2	BS
27JUL18Z	4	04584-001-0001-MB	Method Blank	27-JUL-18 11:47:50	ST072718Z1	ST072718Z2	BS
27JUL18Z	5	11703-001-0001-SA	LDW-Y1-SC-ENR+AC-CA-S010	27-JUL-18 12:46:11	ST072718Z1	ST072718Z2	BS
27JUL18Z	6	11703-002-0001-SA	LDW-Y1-SC-ENR+AC-CB-S010	27-JUL-18 13:44:32	ST072718Z1	ST072718Z2	BS
27JUL18Z	7	11703-003-0001-SA	LDW-Y1-SC-ENR+AC-CC-S010	27-JUL-18 14:42:54	ST072718Z1	ST072718Z2	BS
27JUL18Z	8	11703-006-0001-SA	LDW-Y1-SC-ENR-CA-S010	27-JUL-18 15:41:35	ST072718Z1	ST072718Z2	BS
27JUL18Z	9	11703-007-0001-SA	LDW-Y1-SC-ENR-CB-S010	27-JUL-18 16:40:21	ST072718Z1	ST072718Z2	BS
27JUL18Z	10	11703-008-0001-SA	LDW-Y1-SC-ENR-CC-S010	27-JUL-18 17:39:07	ST072718Z1	ST072718Z2	BS
27JUL18Z	11	11703-011-0001-SA	LDW-Y1-SU-ENR+AC-CA-S010	27-JUL-18 18:37:29	ST072718Z1	ST072718Z2	BS
27JUL18Z	12	11703-012-0001-SA	LDW-Y1-SU-ENR+AC-CB-S010	27-JUL-18 19:35:50	ST072718Z1	ST072718Z2	BS
27JUL18Z	13	11703-013-0001-SA	LDW-Y1-SU-ENR+AC-CC-S010	27-JUL-18 20:34:11	ST072718Z1	ST072718Z2	BS
27JUL18Z	14	SB072718Z1	Solvent Blank	27-JUL-18 21:32:57	ST072718Z1	ST072718Z2	BS
27JUL18Z	15	ST072718Z2	1668 CS3 170805A	27-JUL-18 22:31:19	ST072718Z1	ST072718Z2	BS

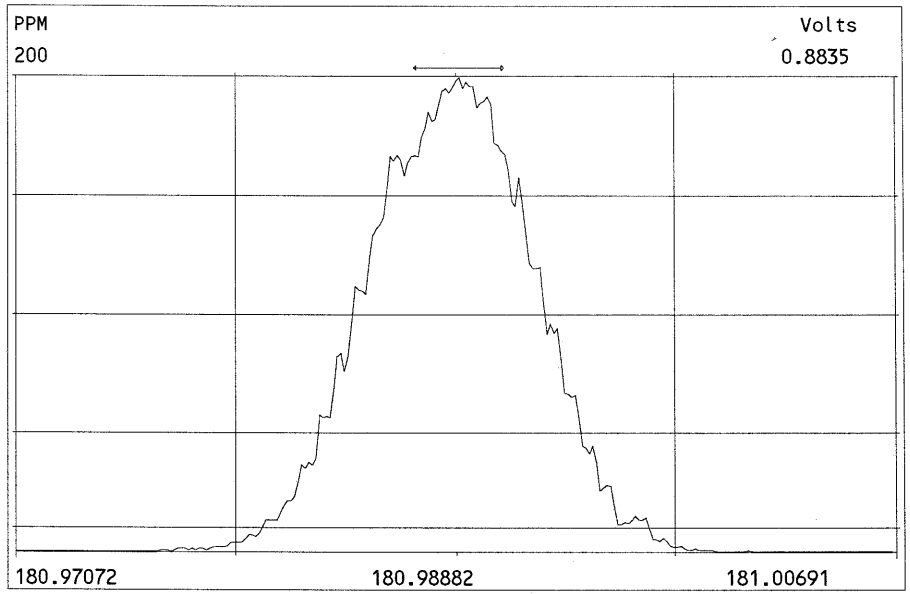
7/26/18

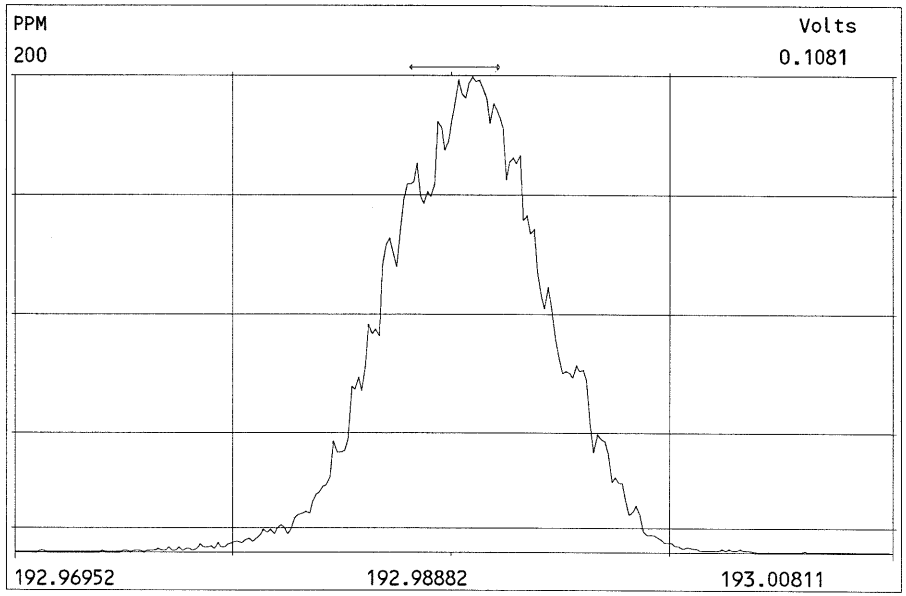
Data Backed Up:_____

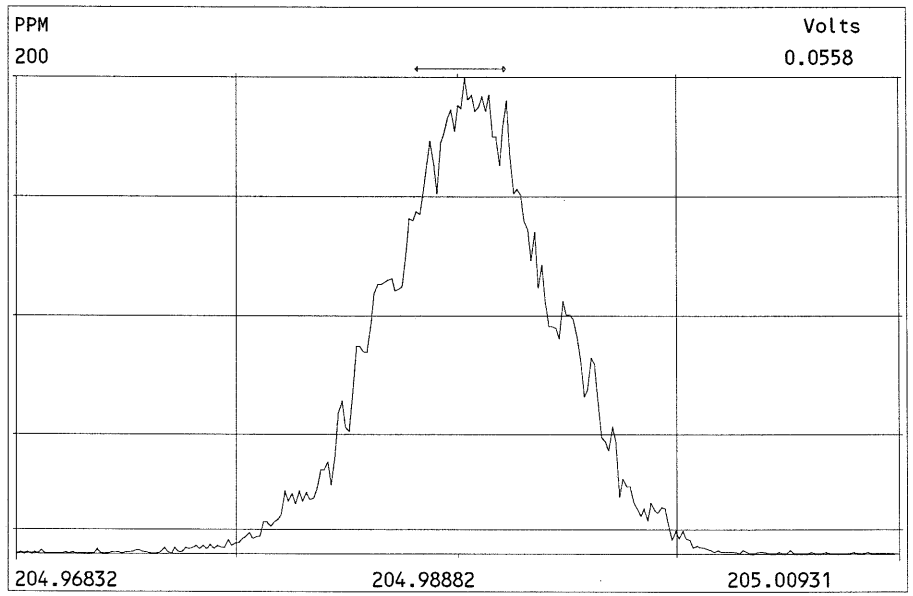
Date:_____

Peak Locate Examination:27-JUL-2018:08:49 File:27JUL18Z
Experiment:1668PCB Function:1 Reference:PFK

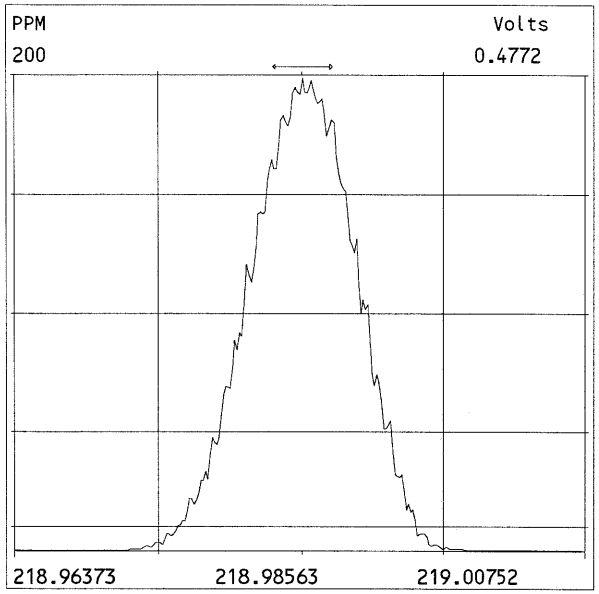


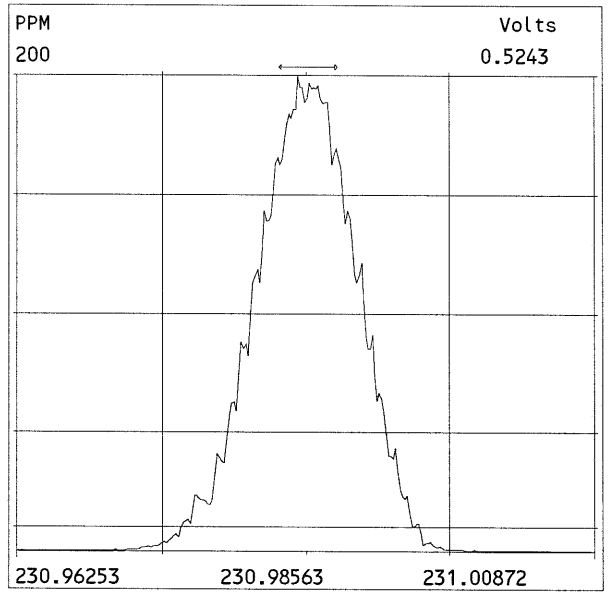


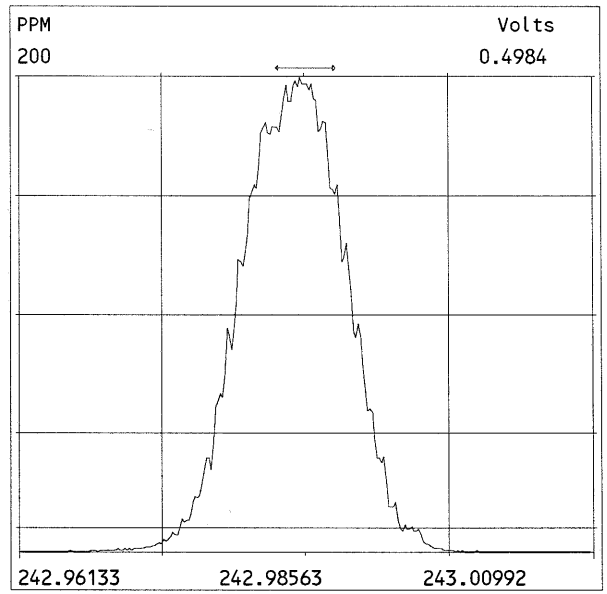


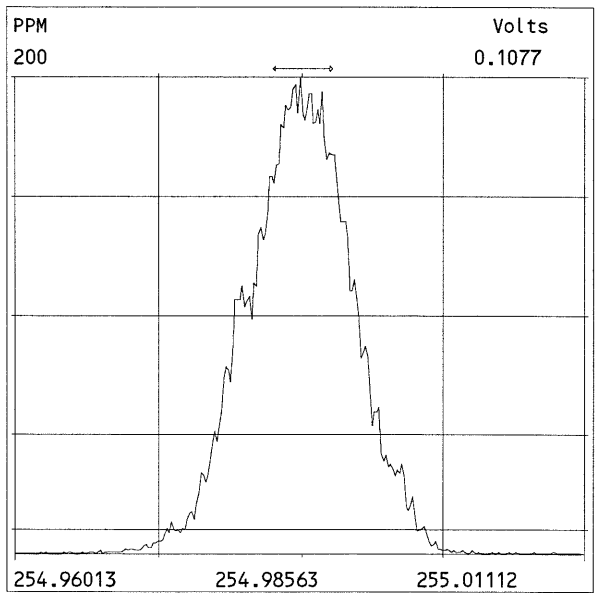


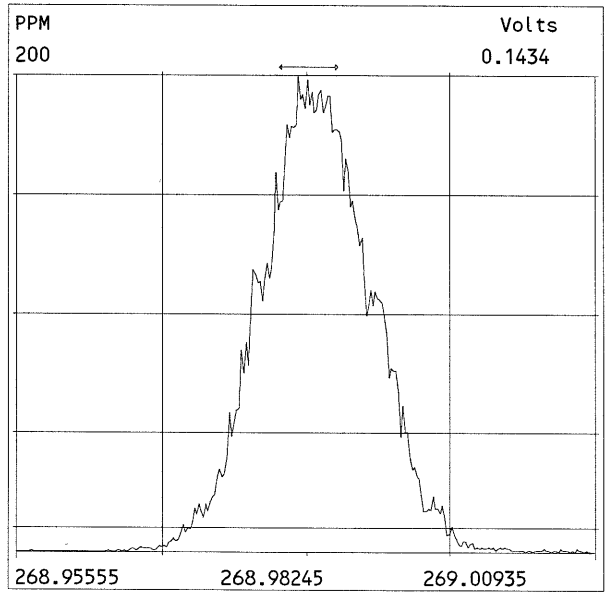
Peak Locate Examination:27-JUL-2018:08:50 File:27JUL18Z
Experiment:1668PCB Function:2 Reference:PFK

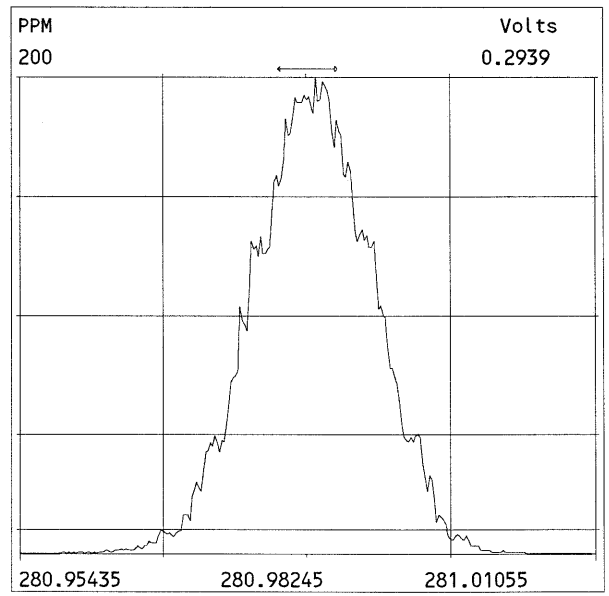




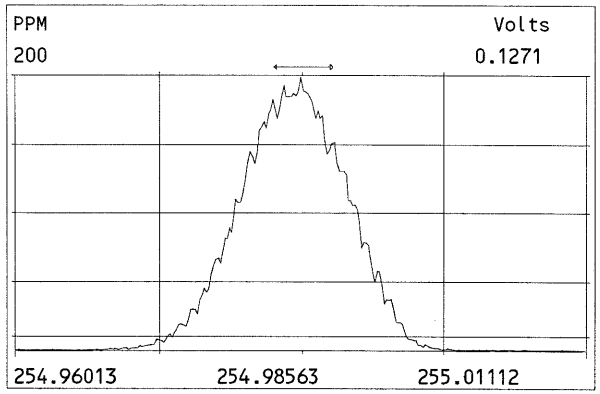


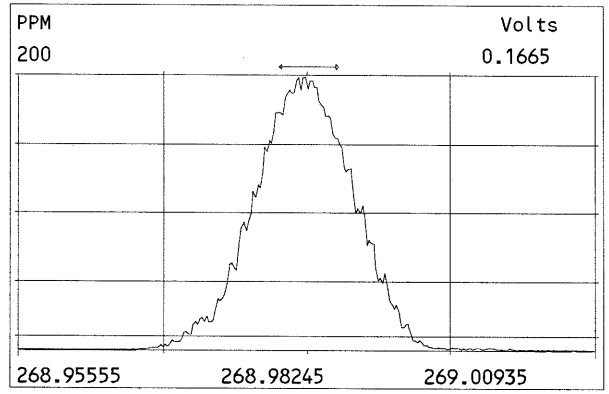


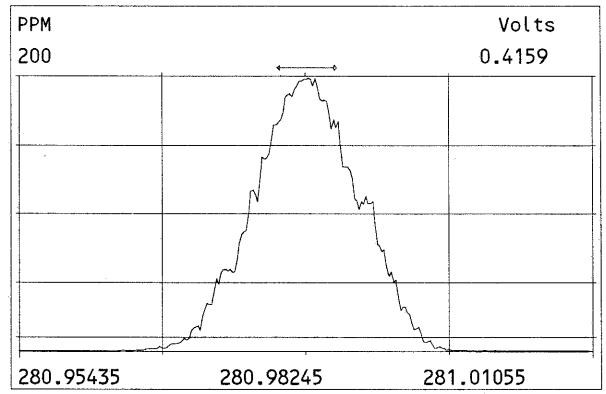


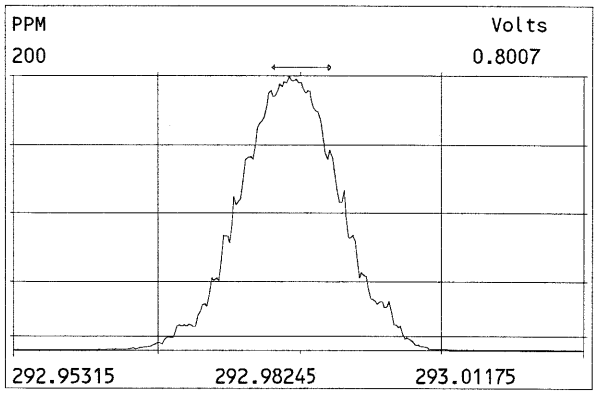


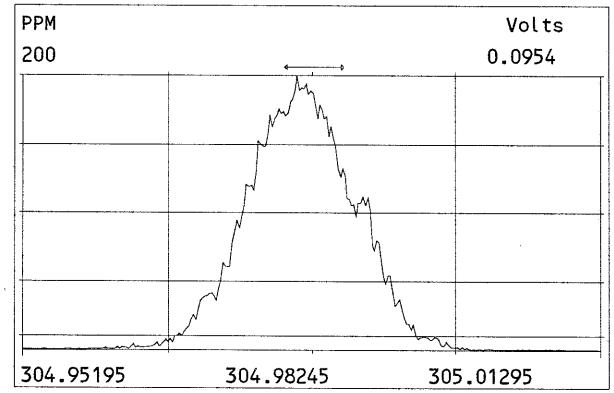
Peak Locate Examination:27-JUL-2018:08:50 File:27JUL18Z
Experiment:1668PCB Function:3 Reference:PFK

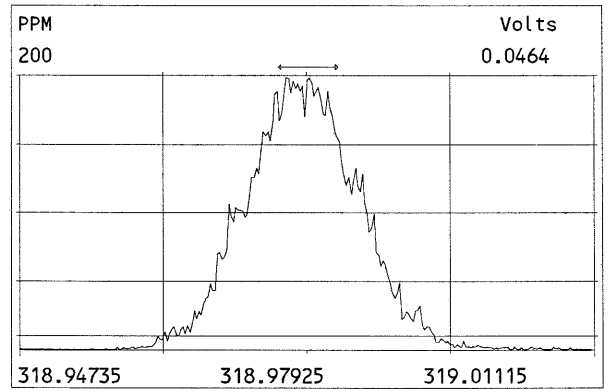


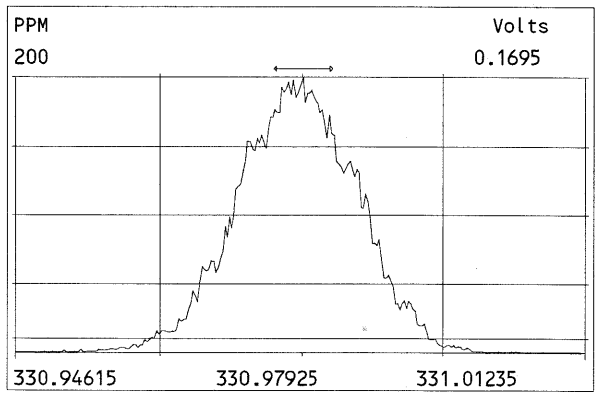


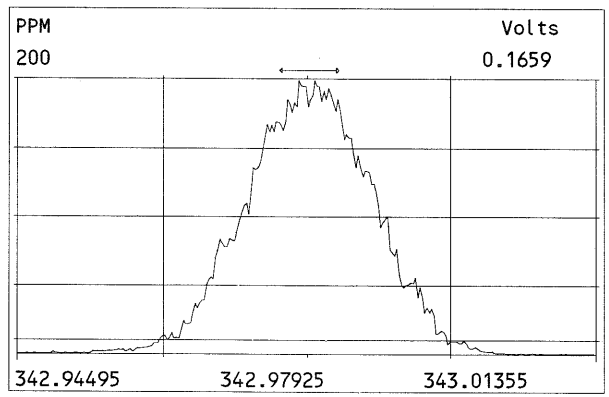




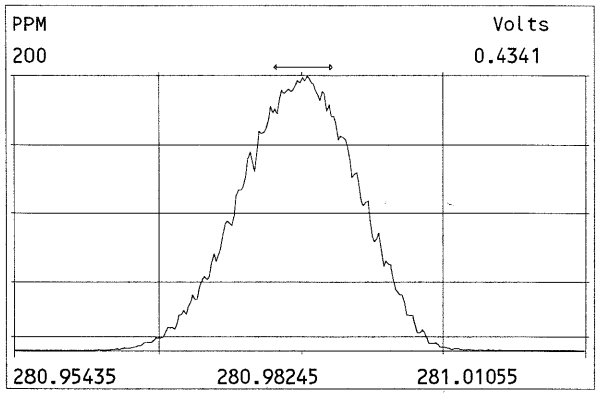


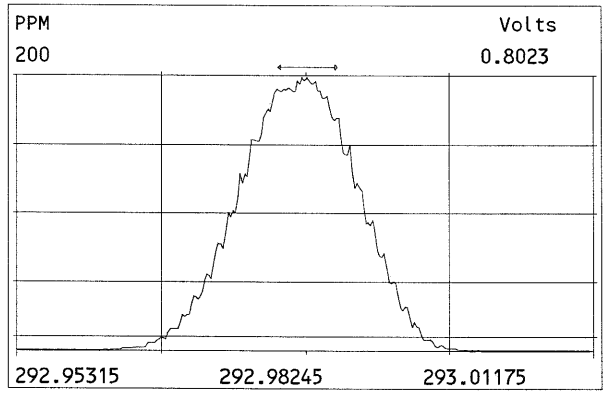


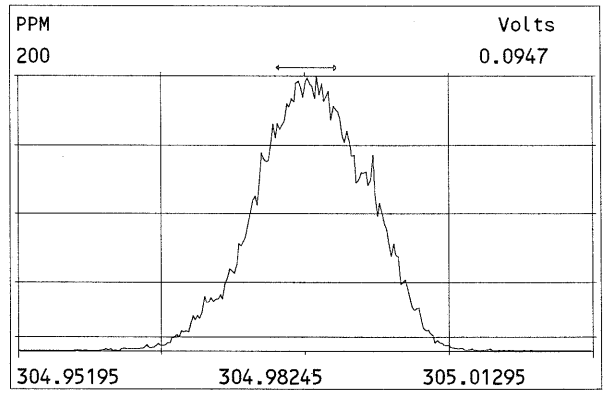


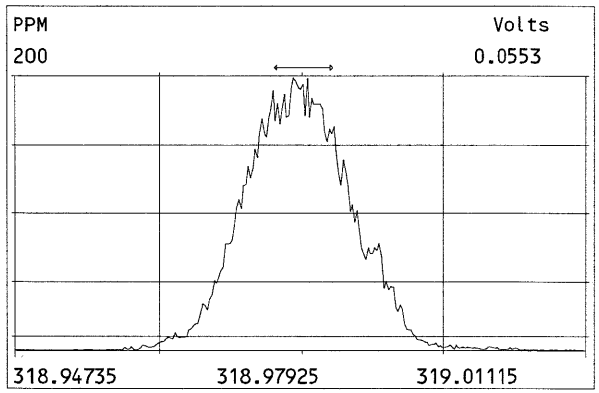


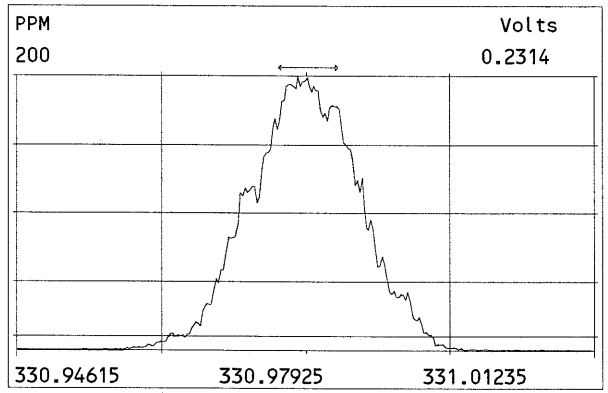
Peak Locate Examination:27-JUL-2018:08:51 File:27JUL18Z
Experiment:1668PCB Function:4 Reference:PFK

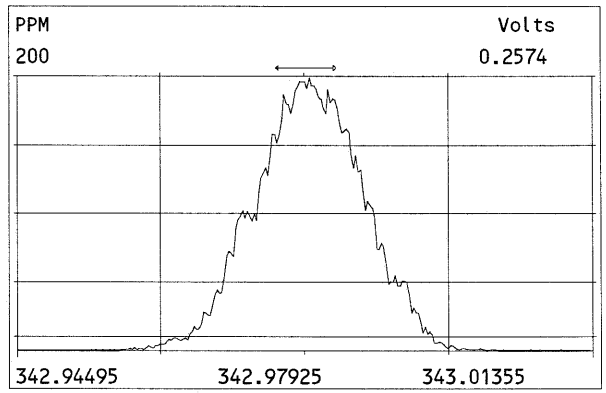


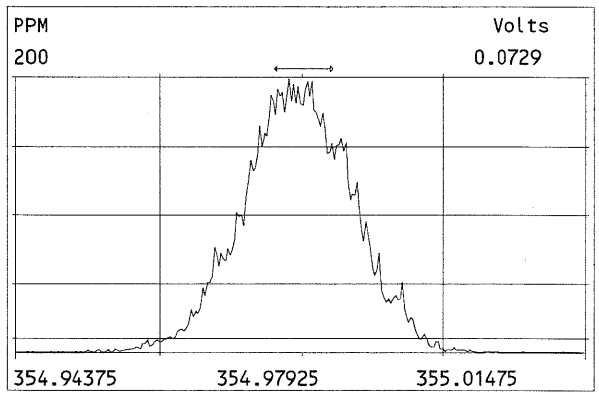


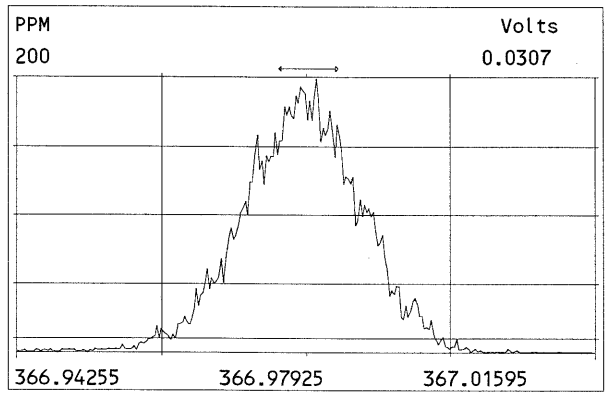


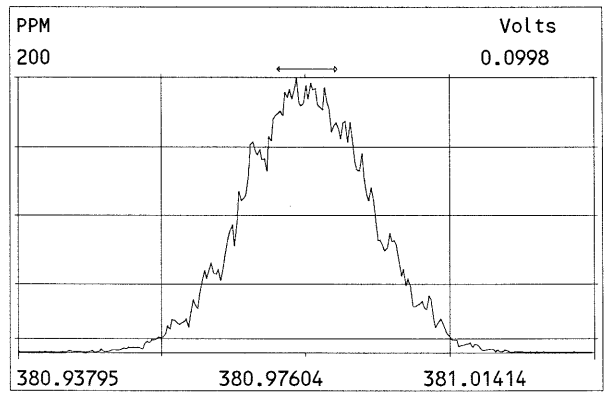




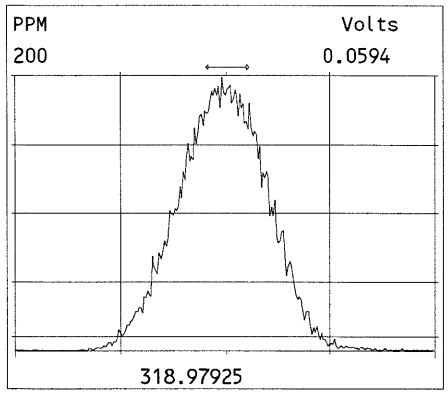


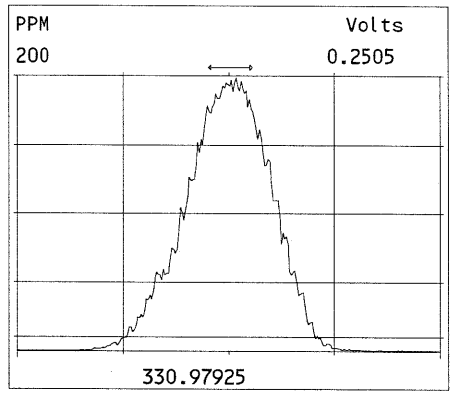


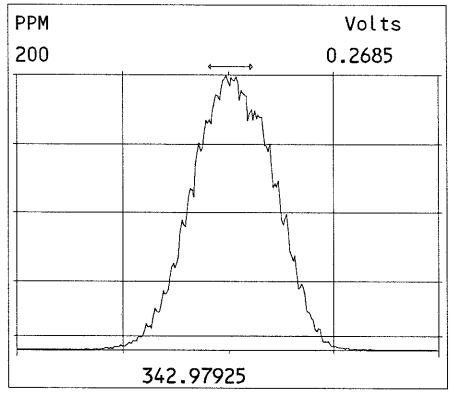


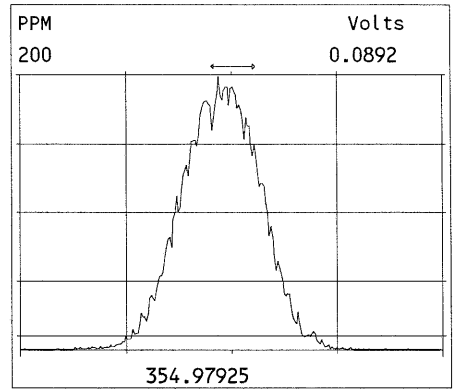


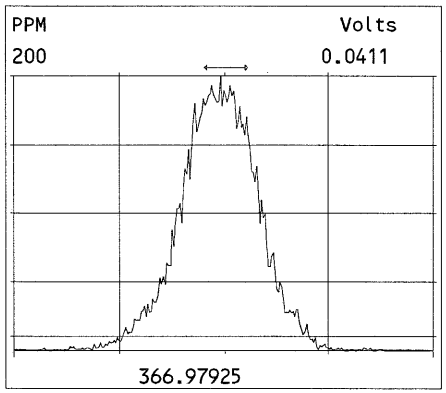
Peak Locate Examination:27-JUL-2018:08:51 File:27JUL18Z
Experiment:1668PCB Function:5 Reference:PFK

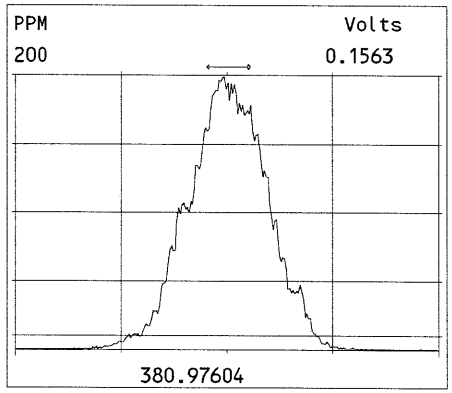


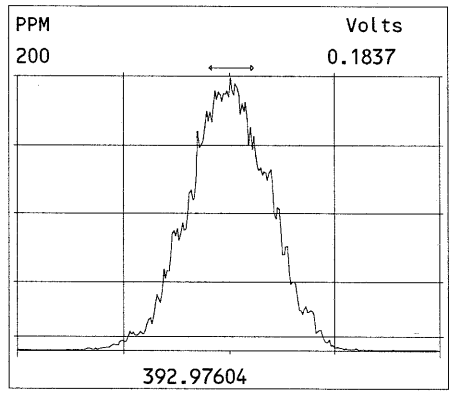


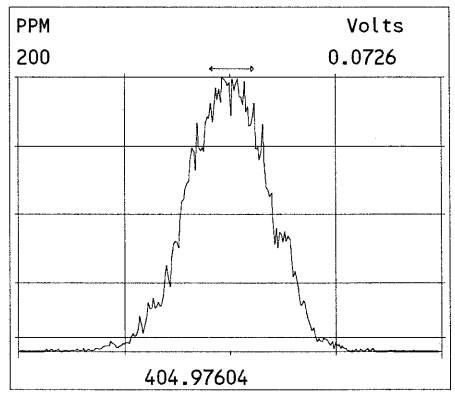


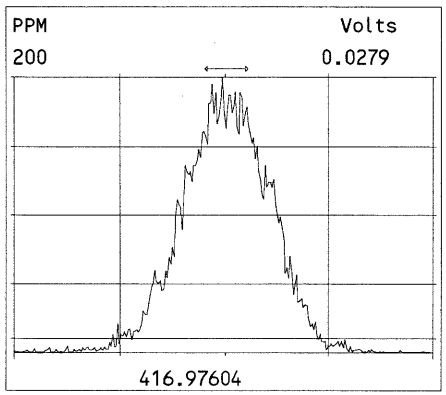


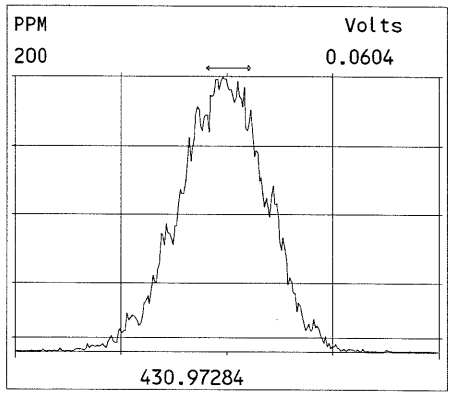


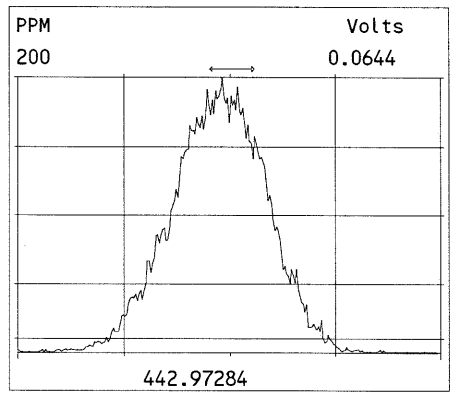




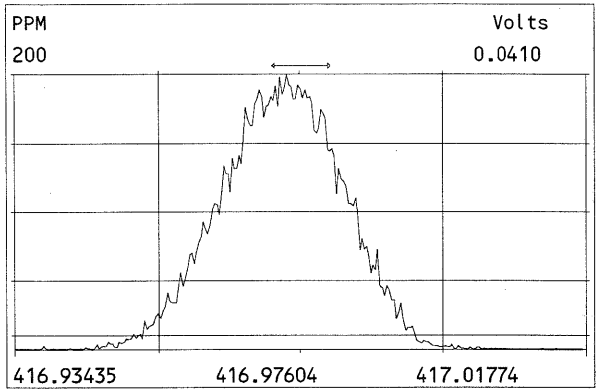


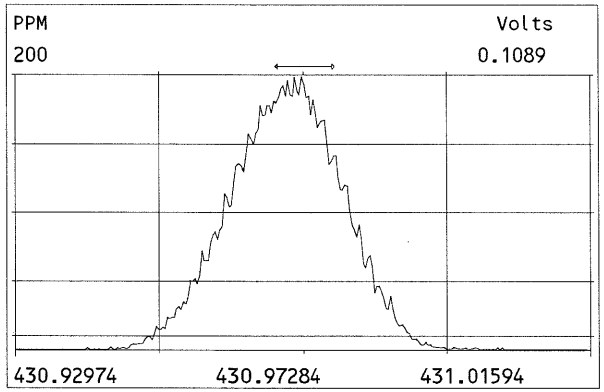


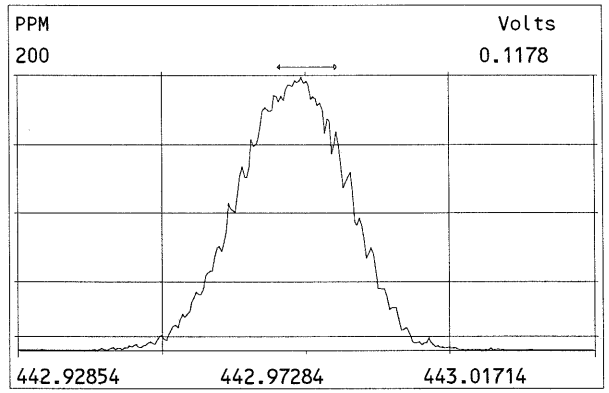


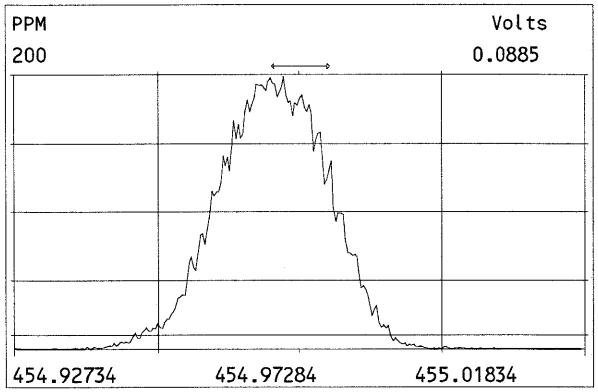


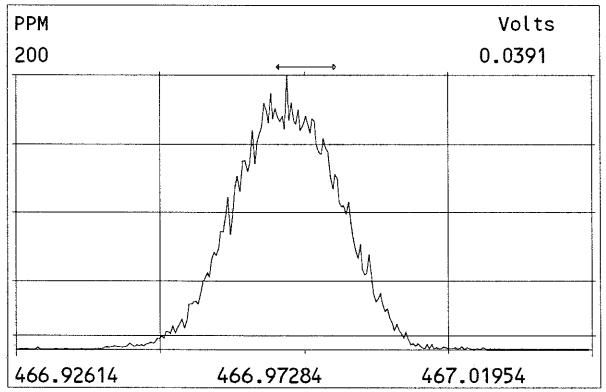
Peak Locate Examination:27-JUL-2018:08:52 File:27JUL18Z
Experiment:1668PCB Function:6 Reference:PFK

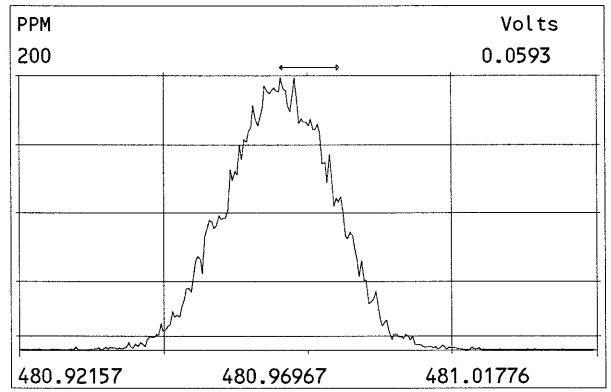


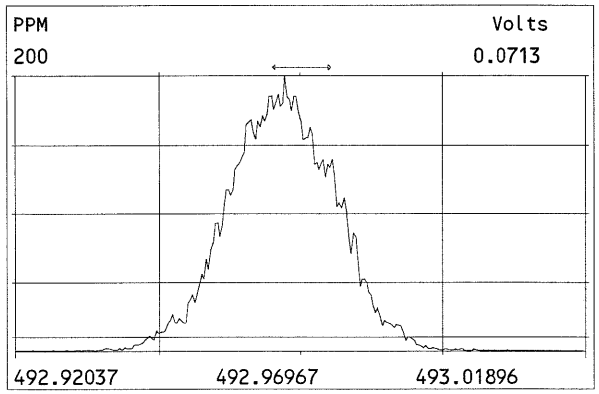


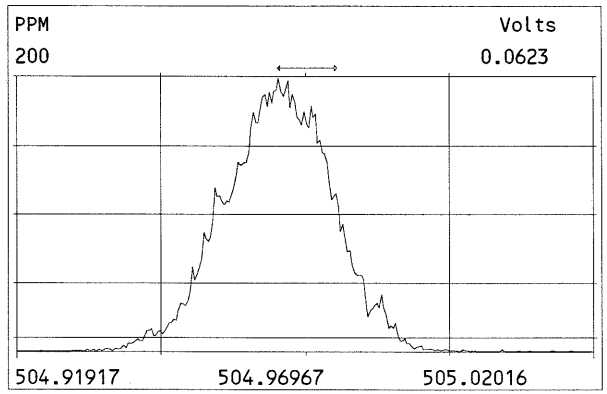


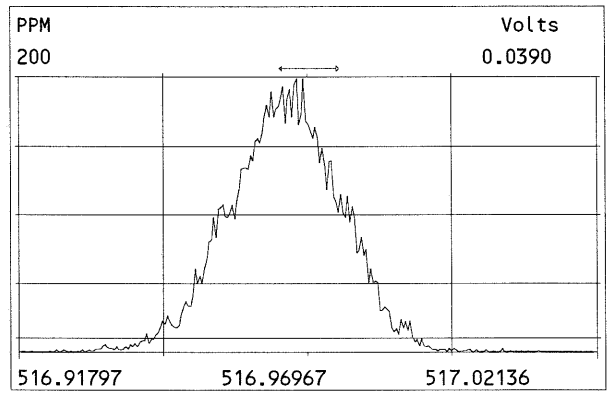




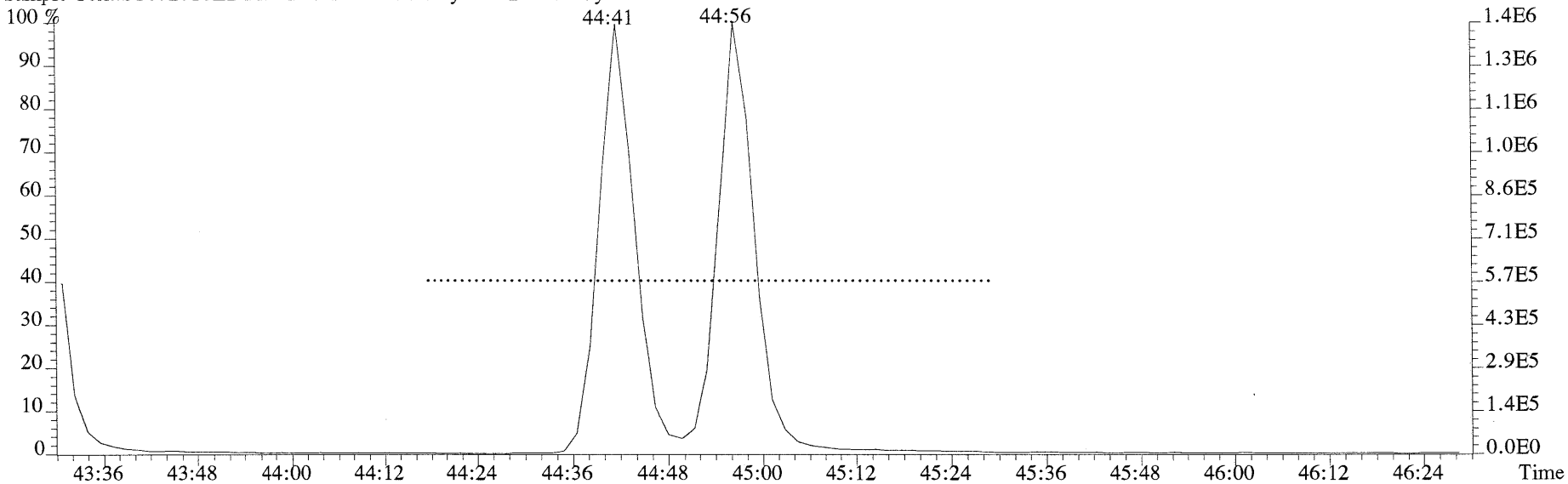








File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:5 Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



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373.8788 S:15 F:5 Exp:1668PCB
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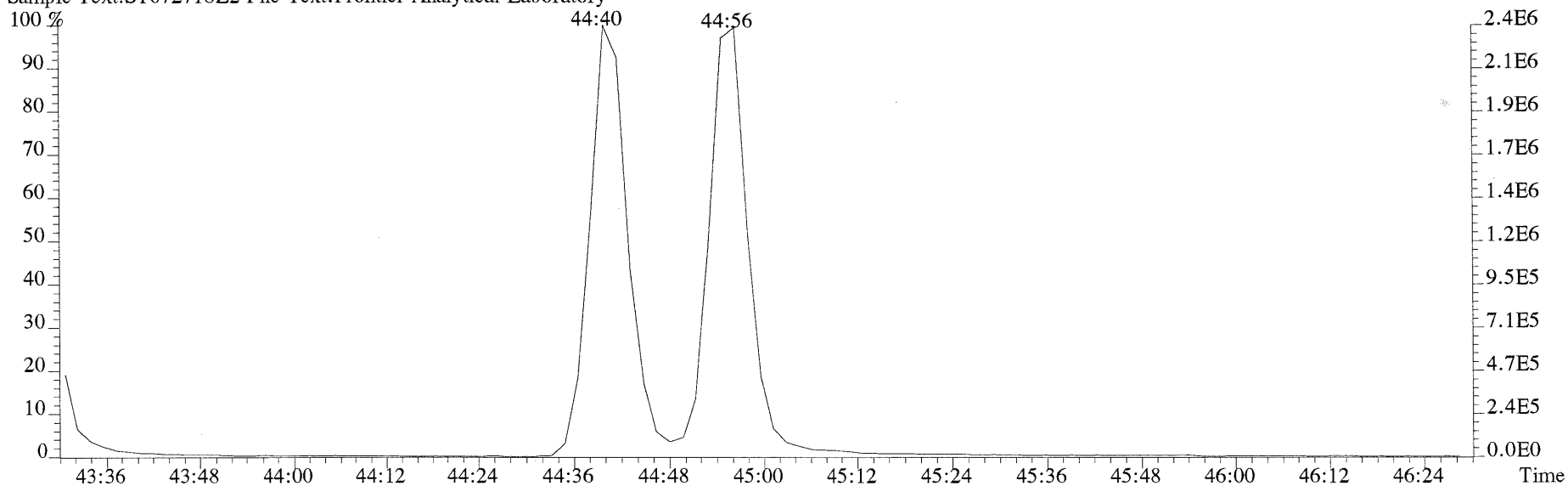
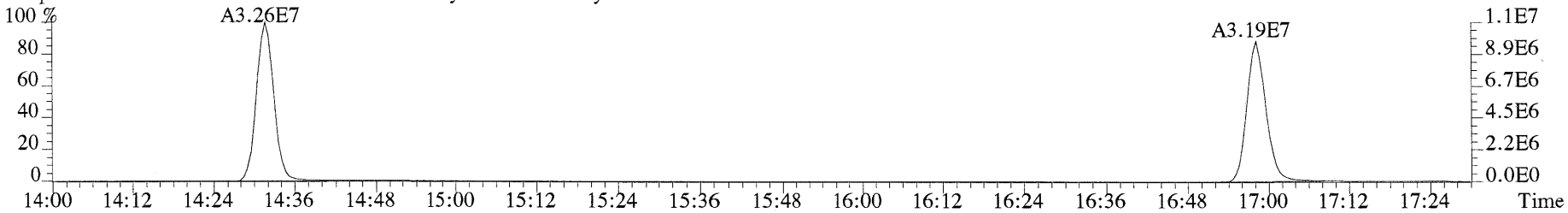
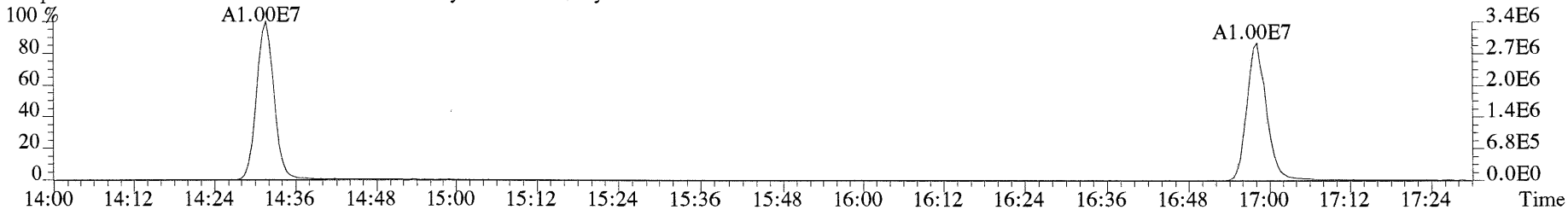


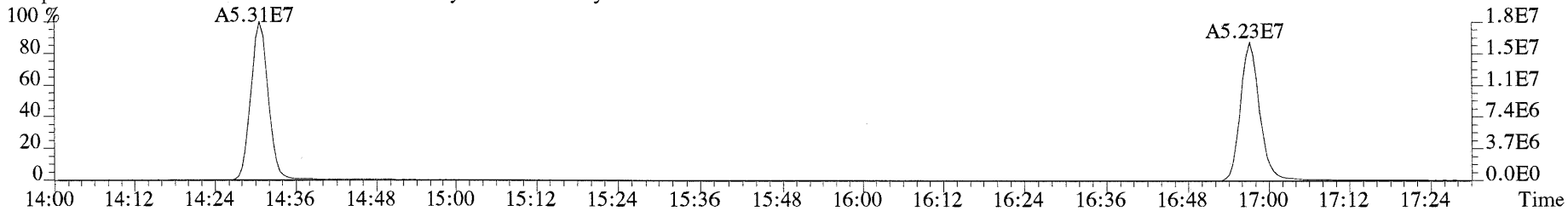
File:27JUL18Z #1-784 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



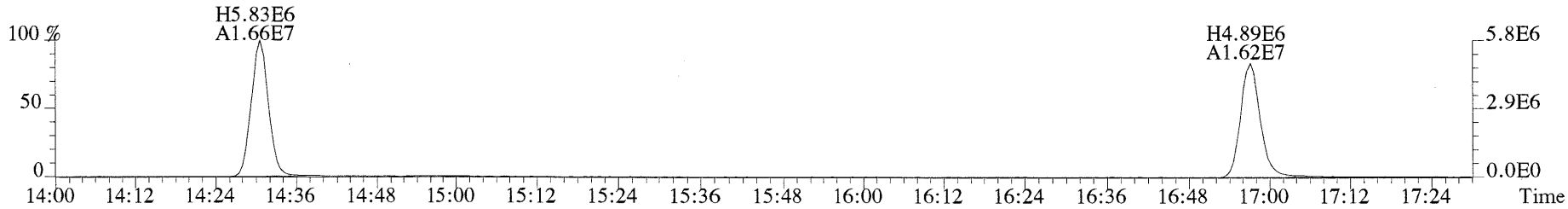
File:27JUL18Z #1-784 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



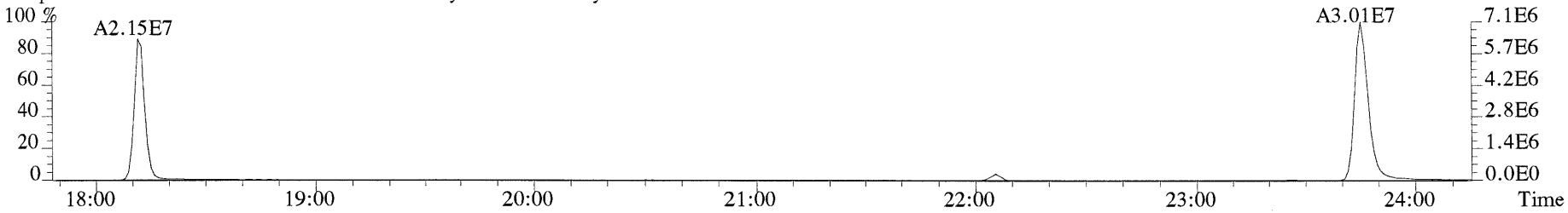
File:27JUL18Z #1-784 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



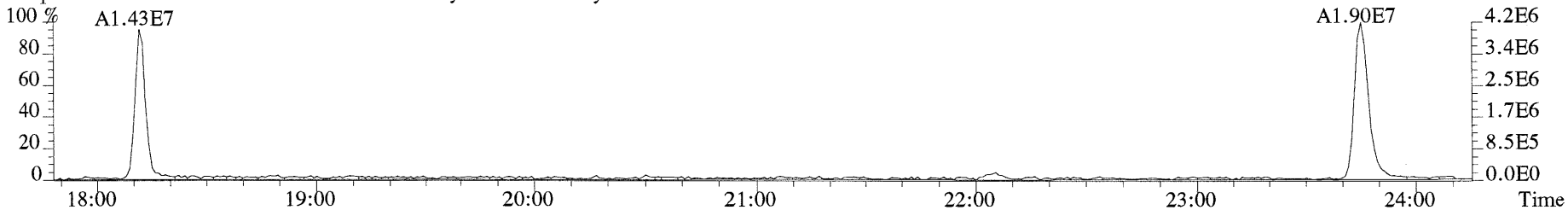
File:27JUL18Z #1-784 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



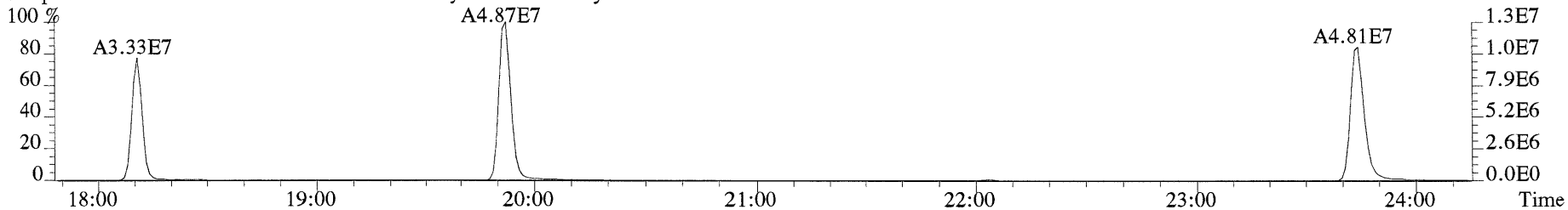
File:27JUL18Z #1-520 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



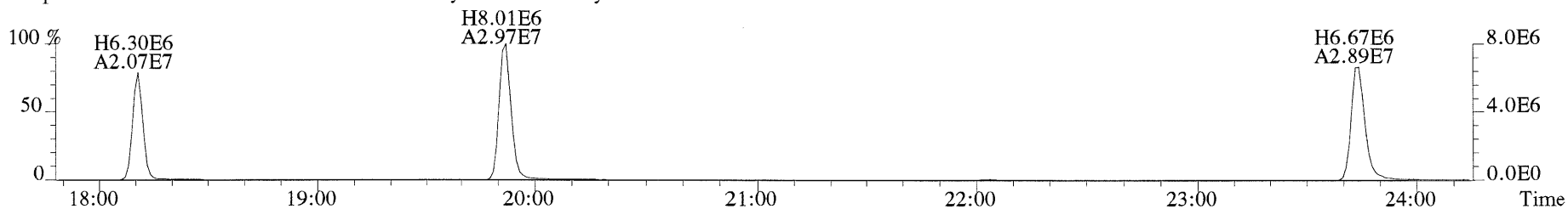
File:27JUL18Z #1-520 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



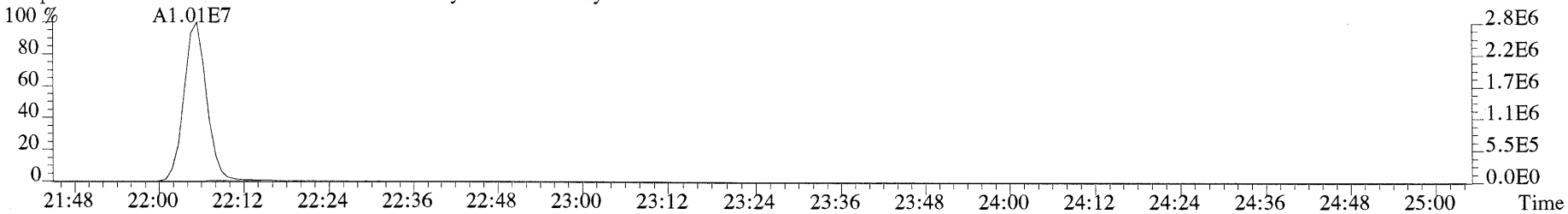
File:27JUL18Z #1-520 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



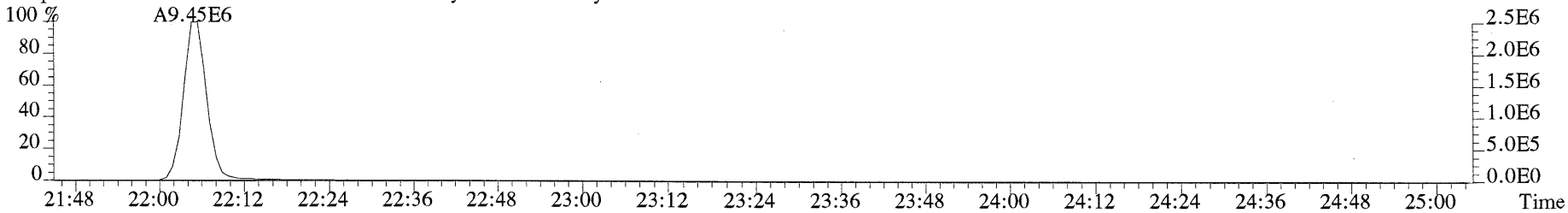
File:27JUL18Z #1-520 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



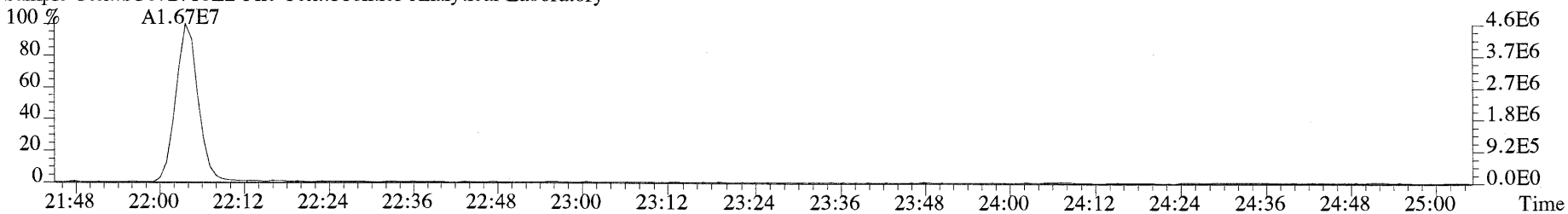
File:27JUL18Z #1-520 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



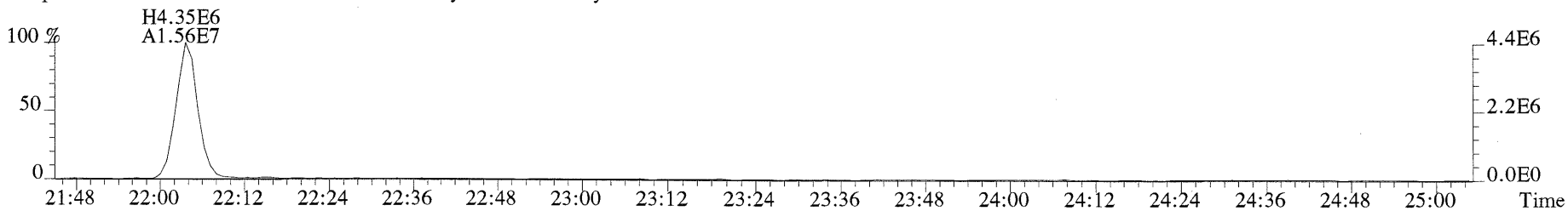
File:27JUL18Z #1-520 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



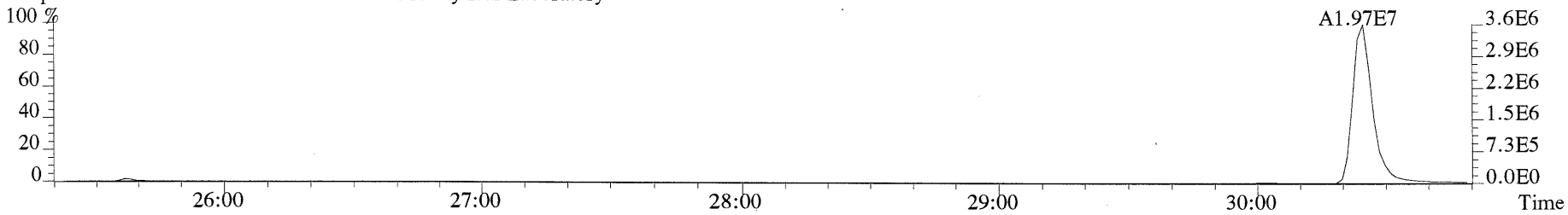
File:27JUL18Z #1-520 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



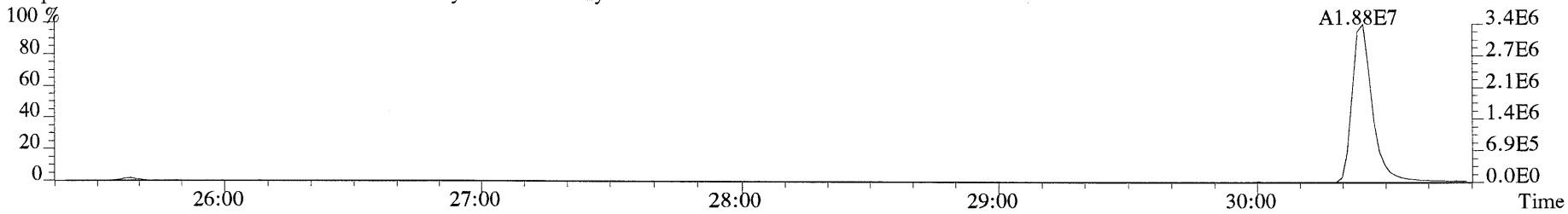
File:27JUL18Z #1-520 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



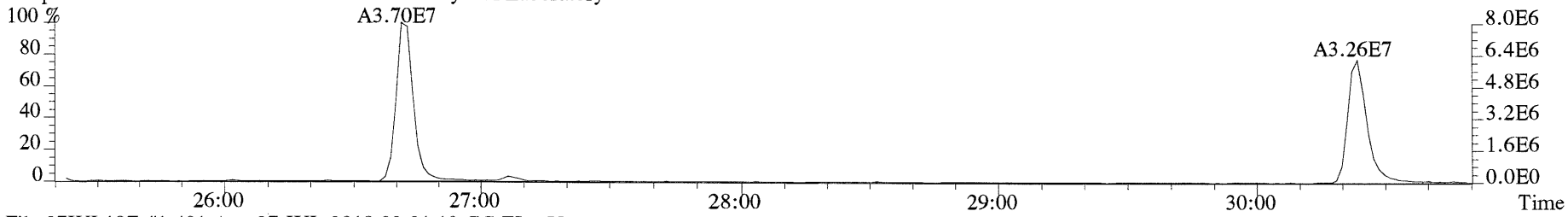
File:27JUL18Z #1-401 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



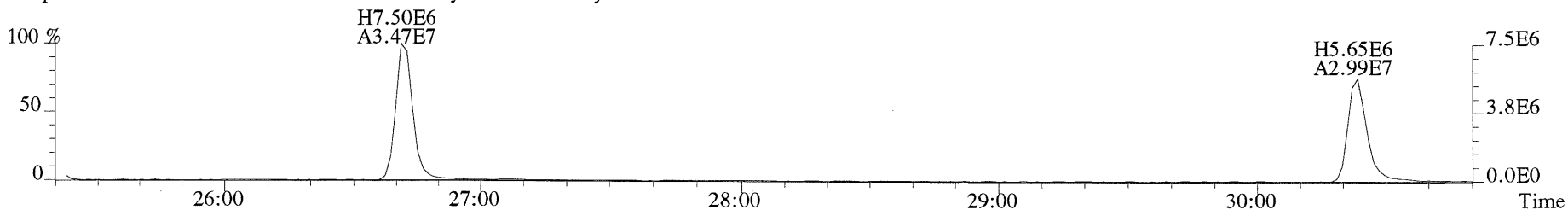
File:27JUL18Z #1-401 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



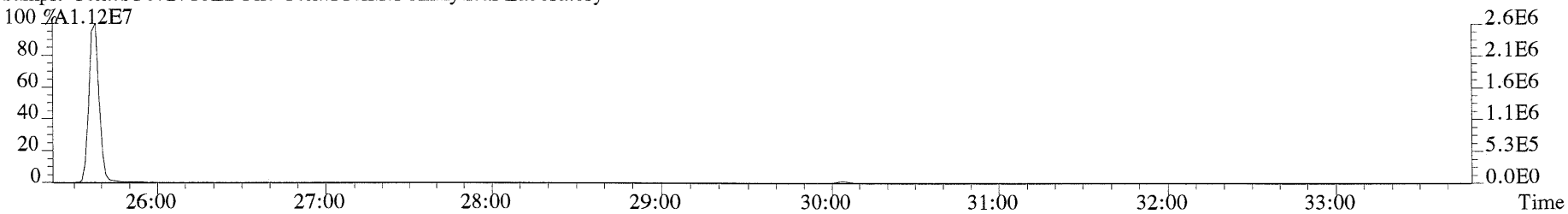
File:27JUL18Z #1-401 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



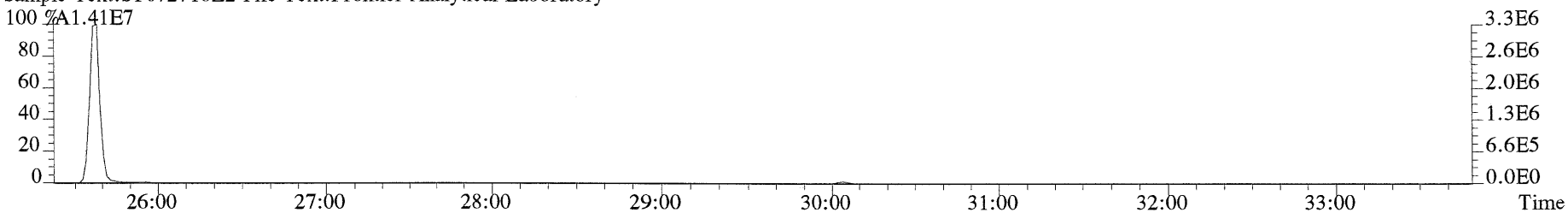
File:27JUL18Z #1-401 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



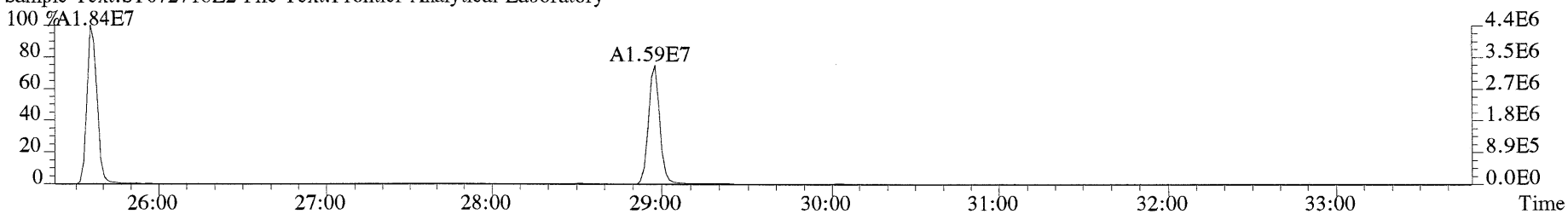
File:27JUL18Z #1-401 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:15 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



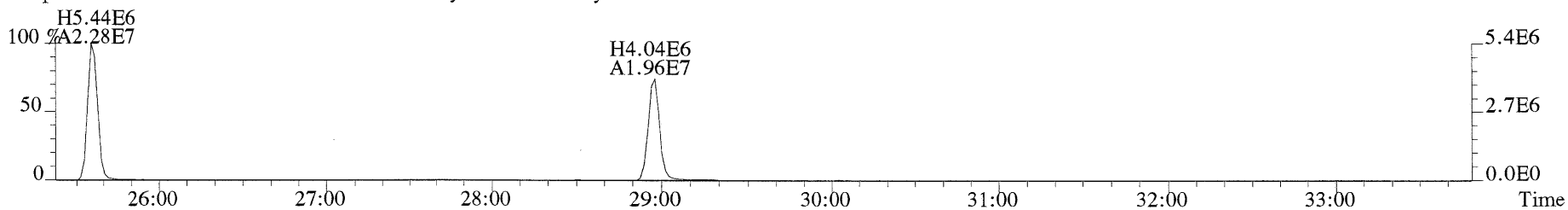
File:27JUL18Z #1-401 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:15 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



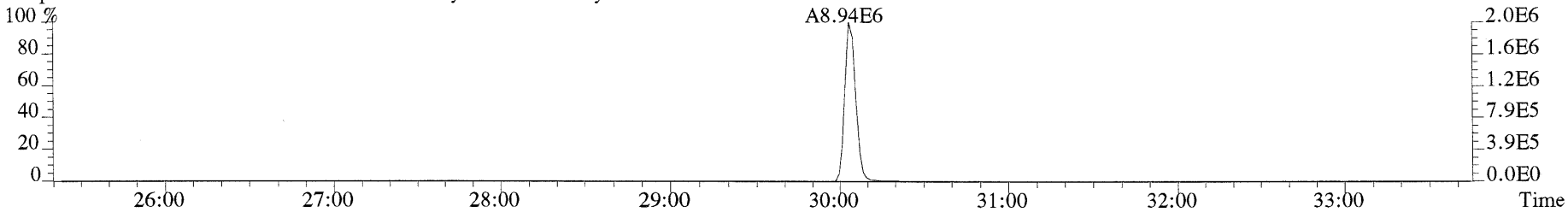
File:27JUL18Z #1-401 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:15 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



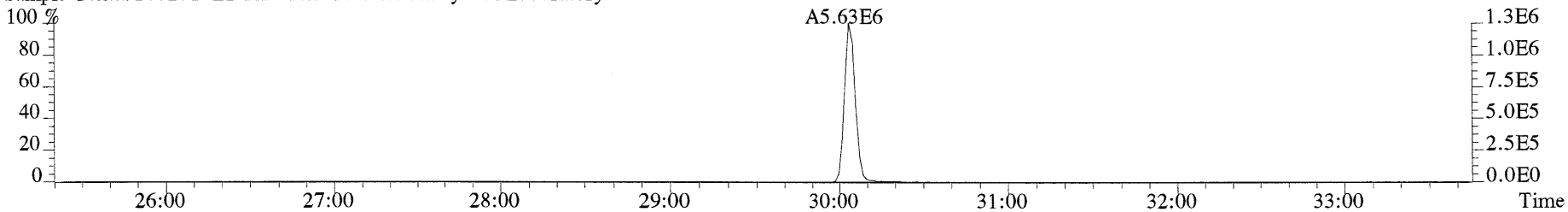
File:27JUL18Z #1-401 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:15 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



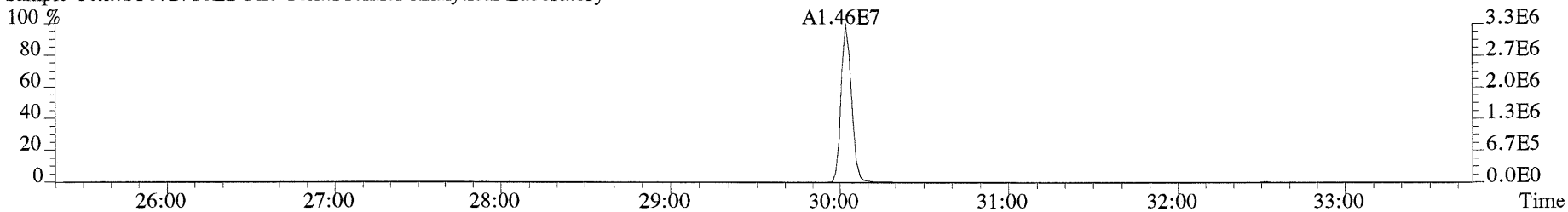
File:27JUL18Z #1-401 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



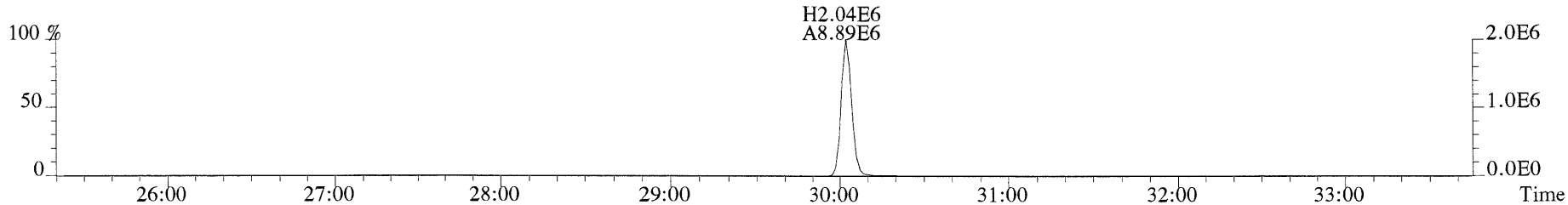
File:27JUL18Z #1-401 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



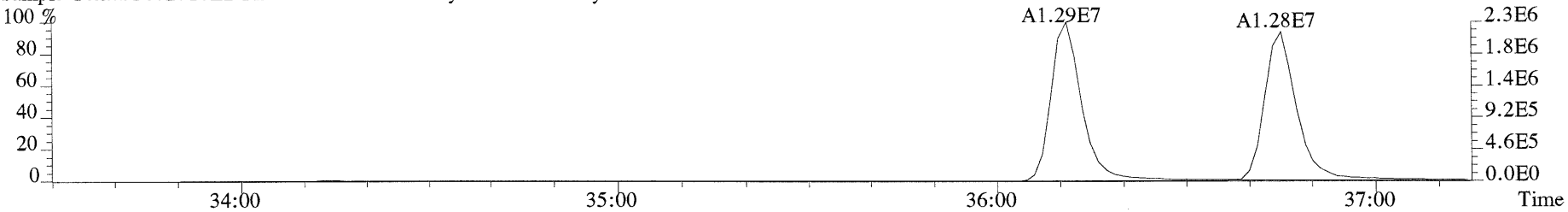
File:27JUL18Z #1-401 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



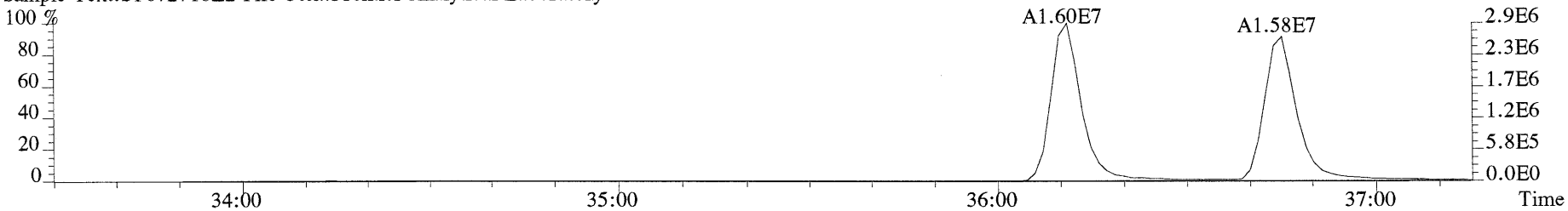
File:27JUL18Z #1-401 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



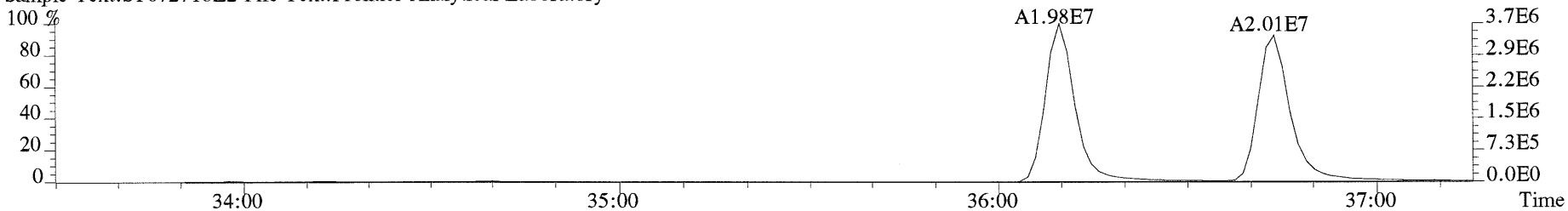
File:27JUL18Z #1-183 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



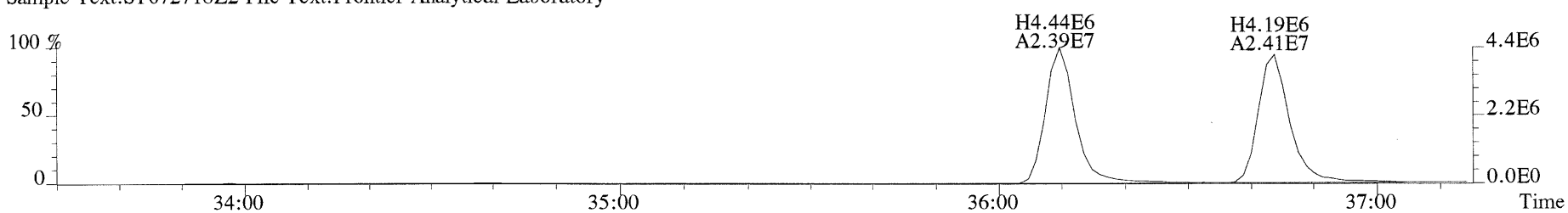
File:27JUL18Z #1-183 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



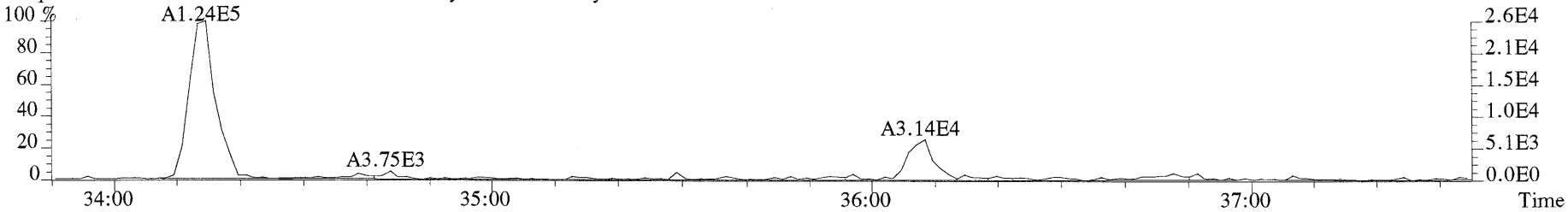
File:27JUL18Z #1-183 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



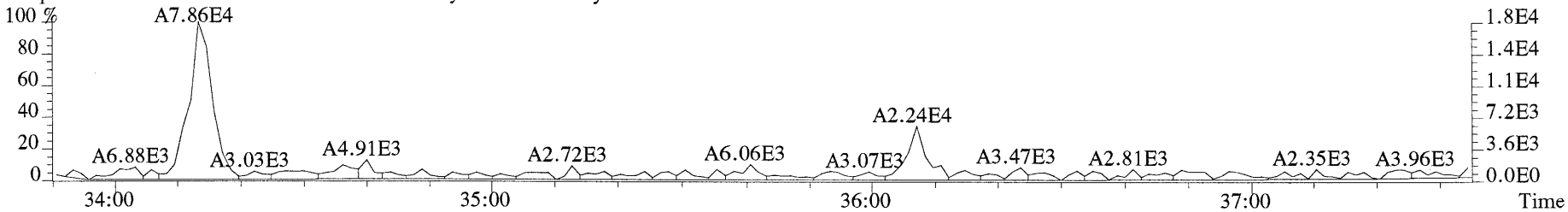
File:27JUL18Z #1-183 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



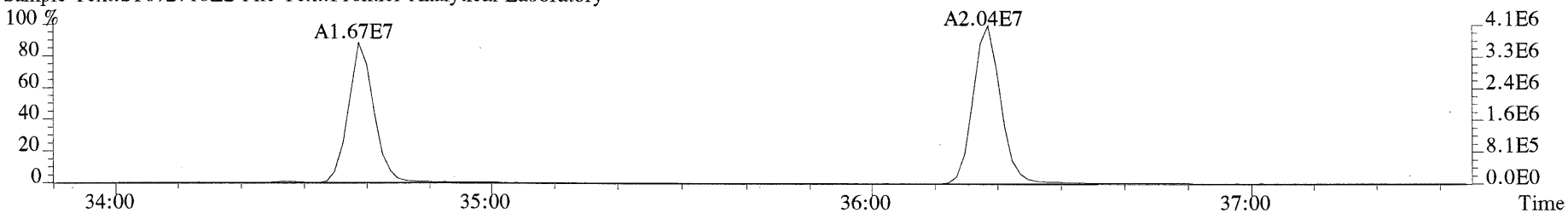
File:27JUL18Z #1-183 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



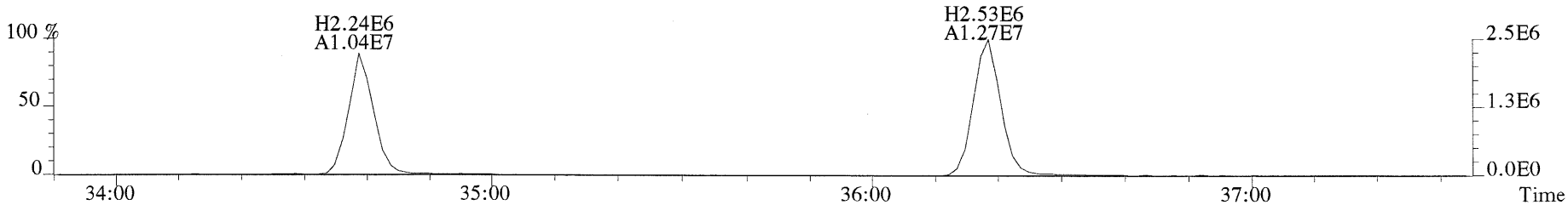
File:27JUL18Z #1-183 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



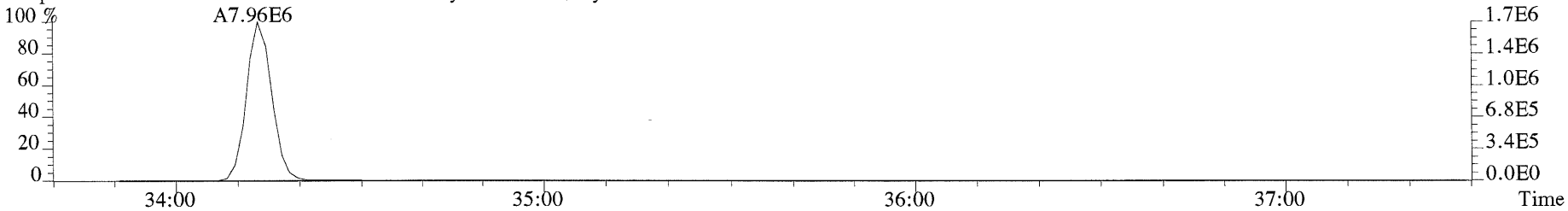
File:27JUL18Z #1-183 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



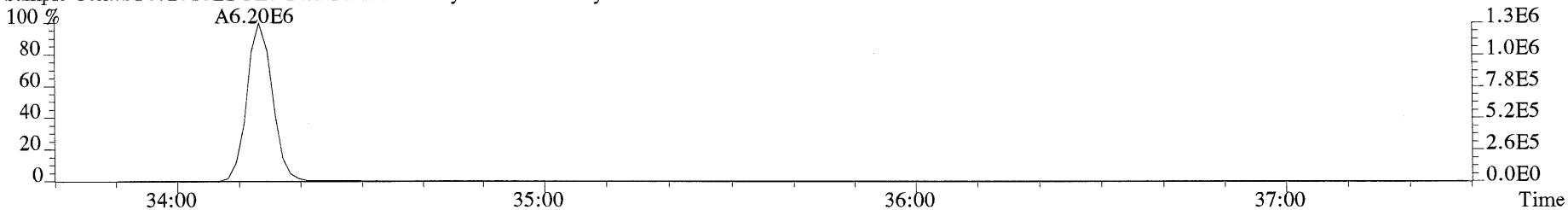
File:27JUL18Z #1-183 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



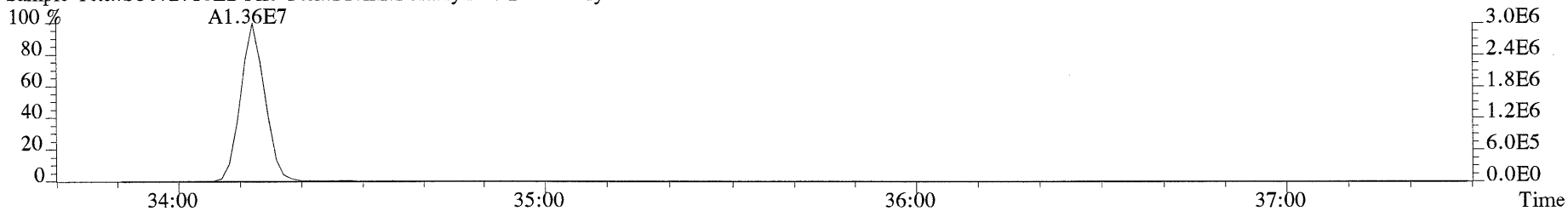
File:27JUL18Z #1-183 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



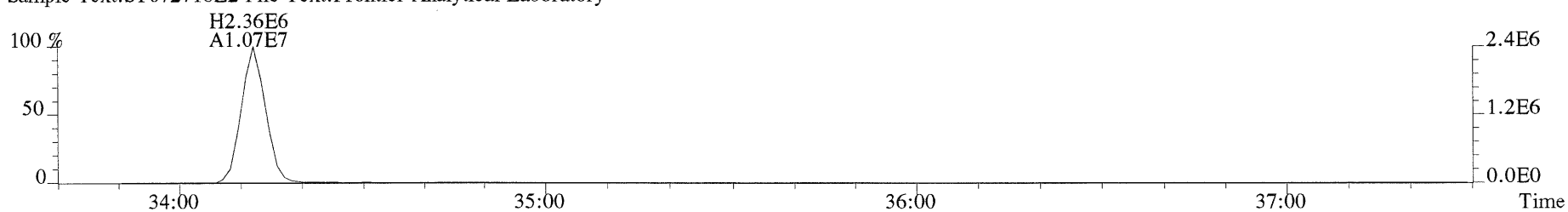
File:27JUL18Z #1-183 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



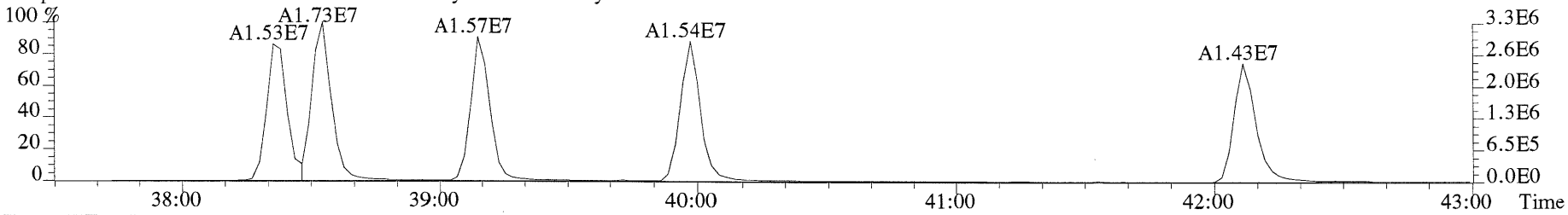
File:27JUL18Z #1-183 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



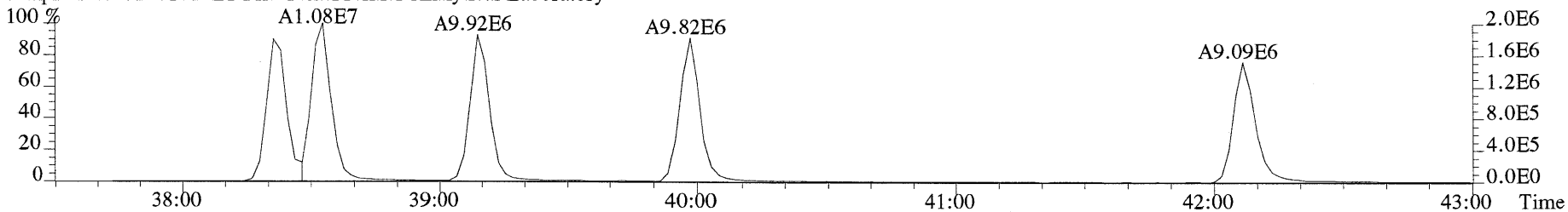
File:27JUL18Z #1-183 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



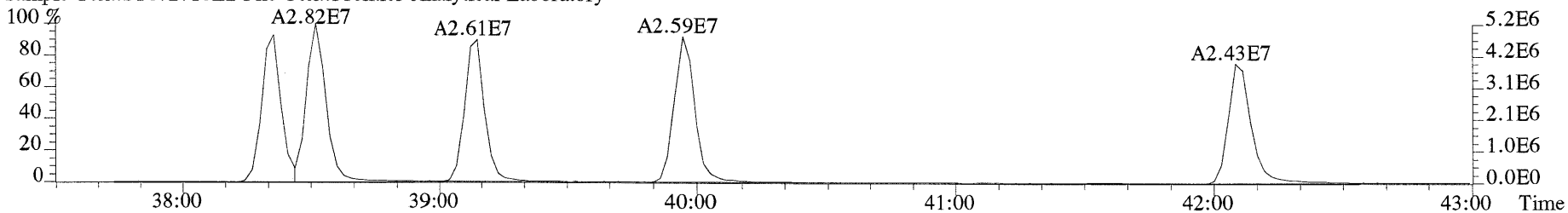
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



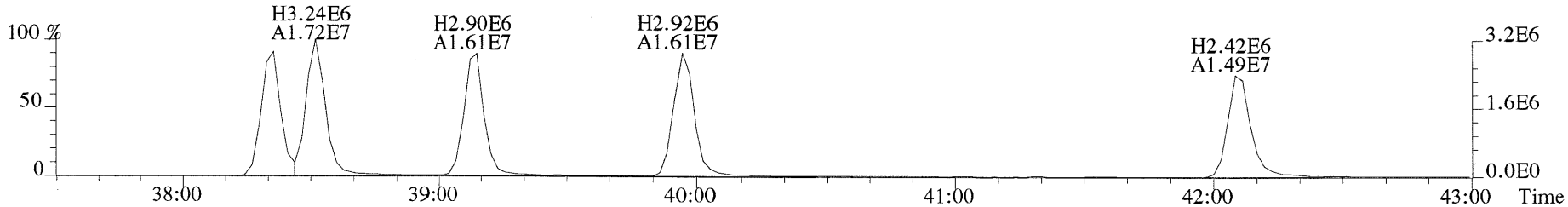
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



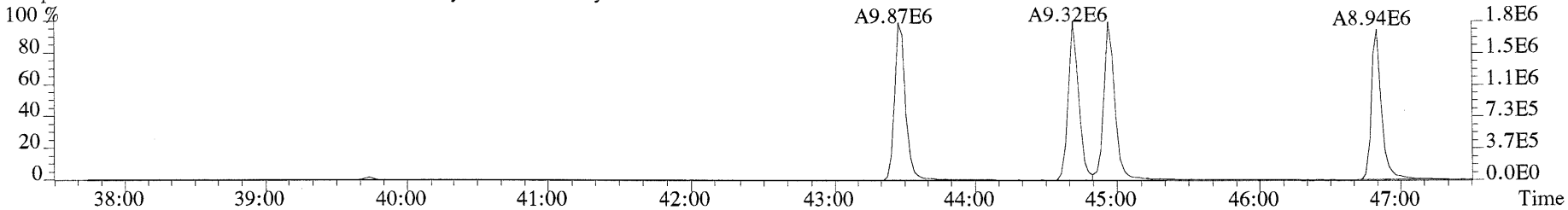
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



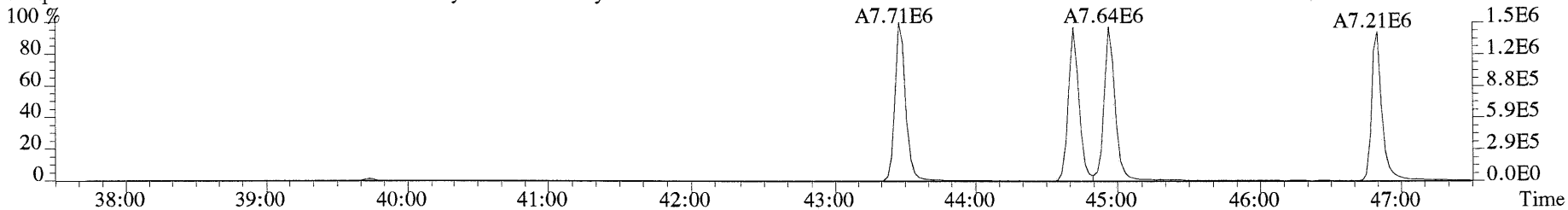
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



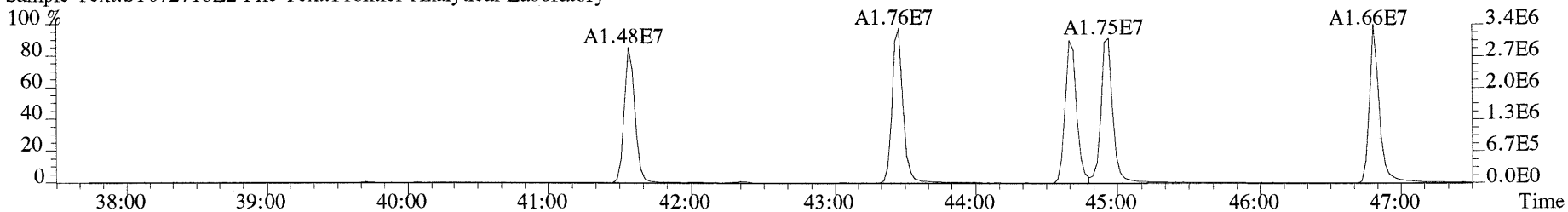
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



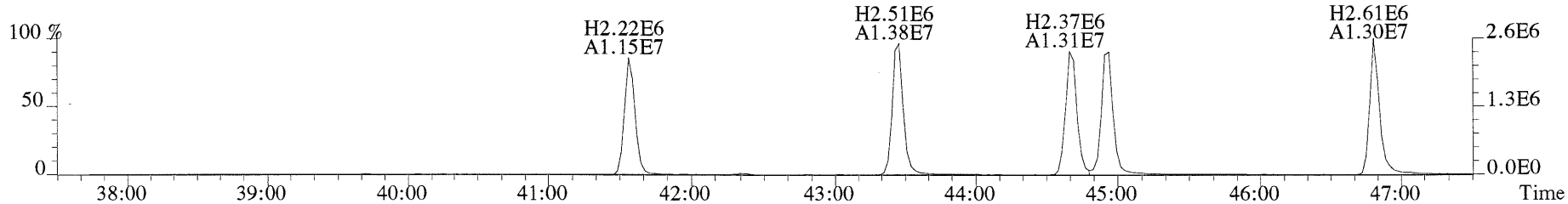
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



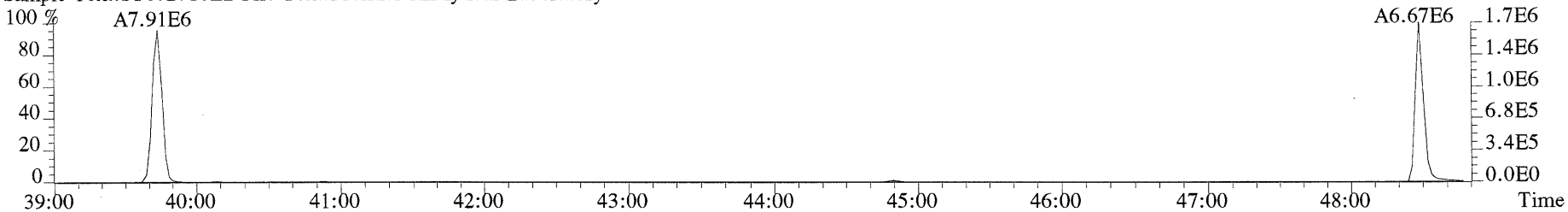
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



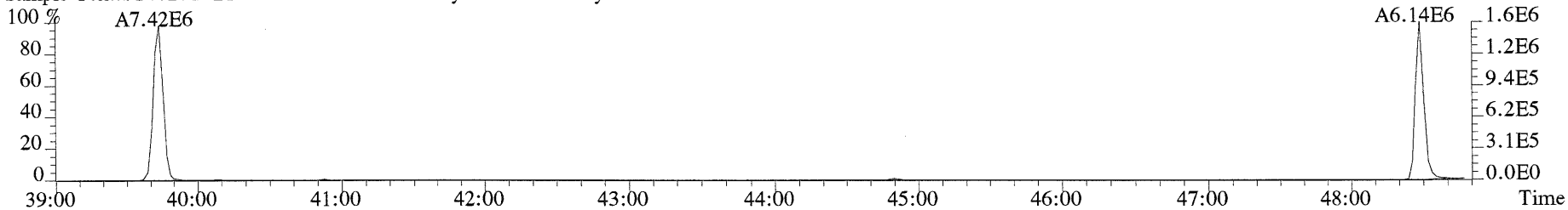
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



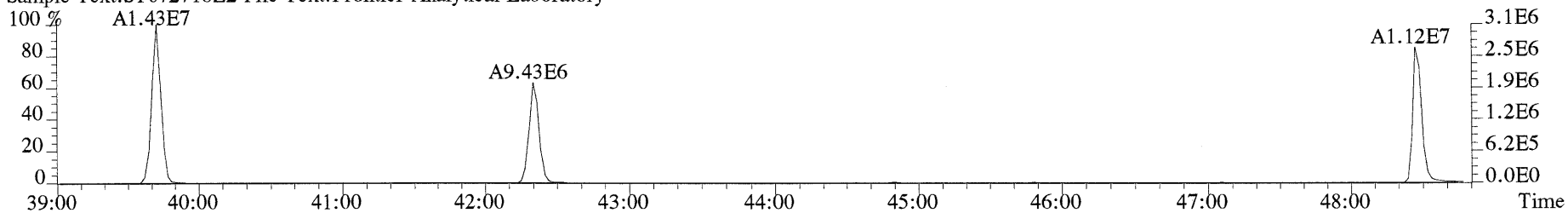
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



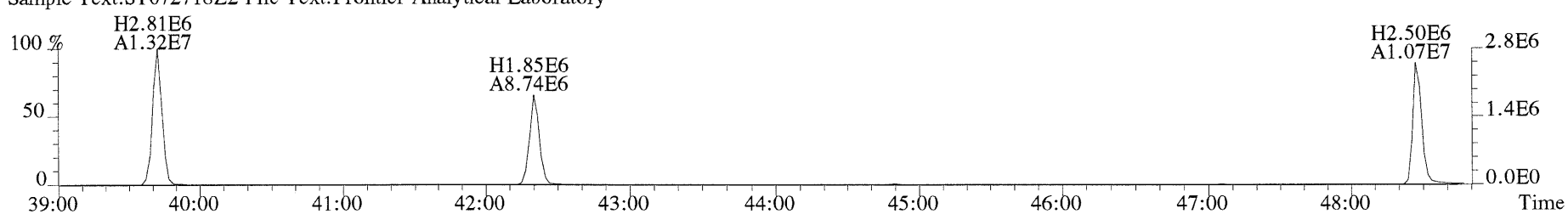
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



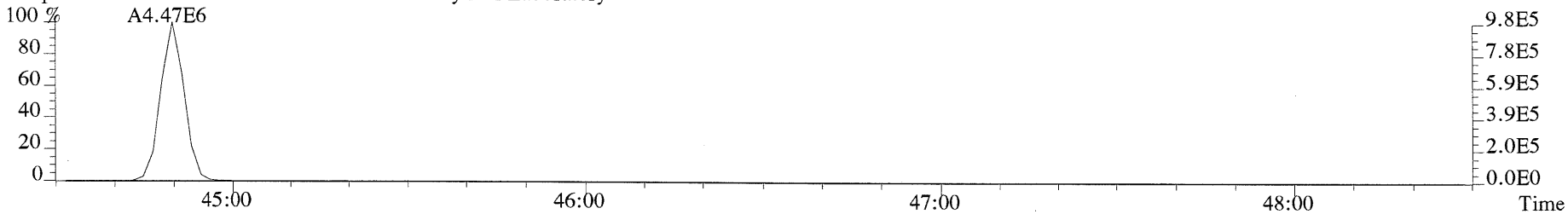
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



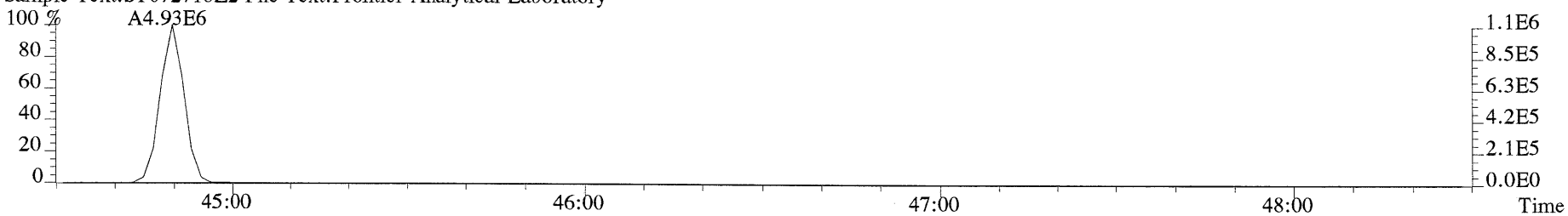
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



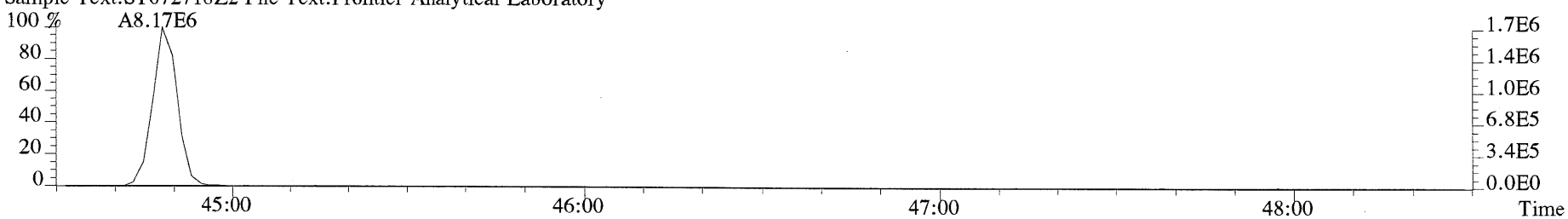
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



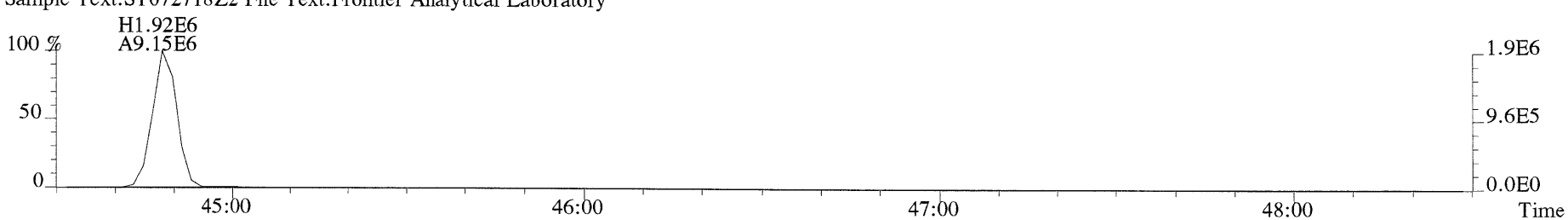
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



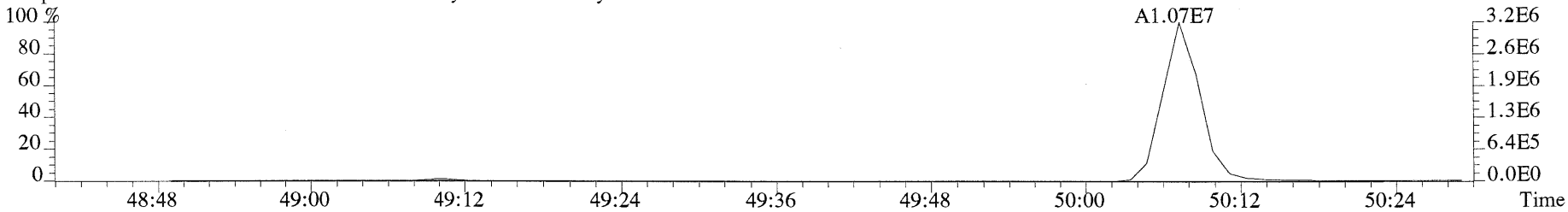
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



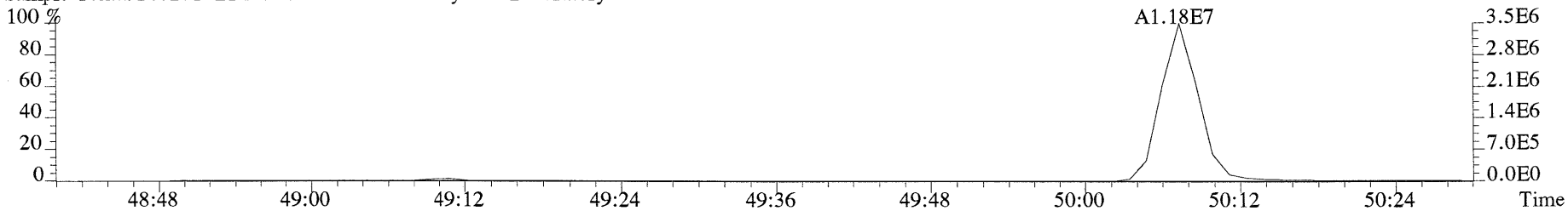
File:27JUL18Z #1-404 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



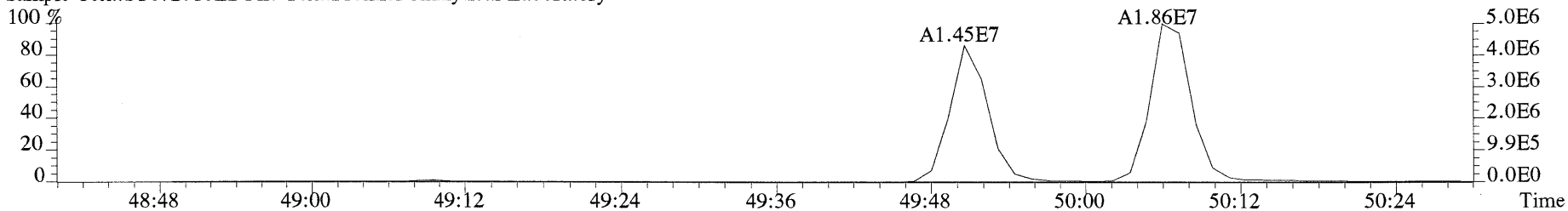
File:27JUL18Z #1-314 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



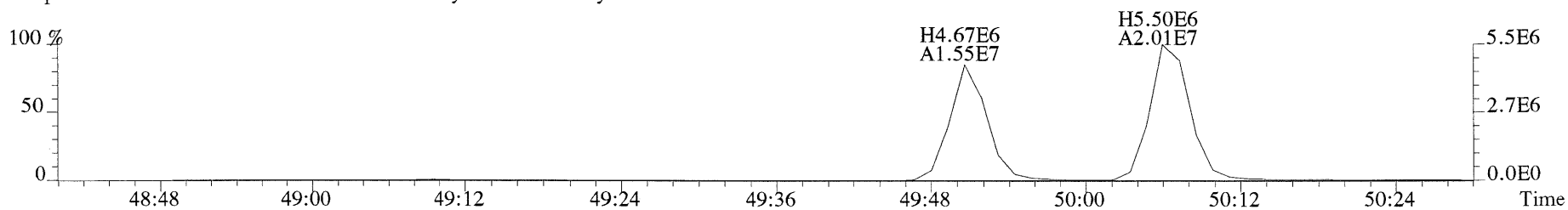
File:27JUL18Z #1-314 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



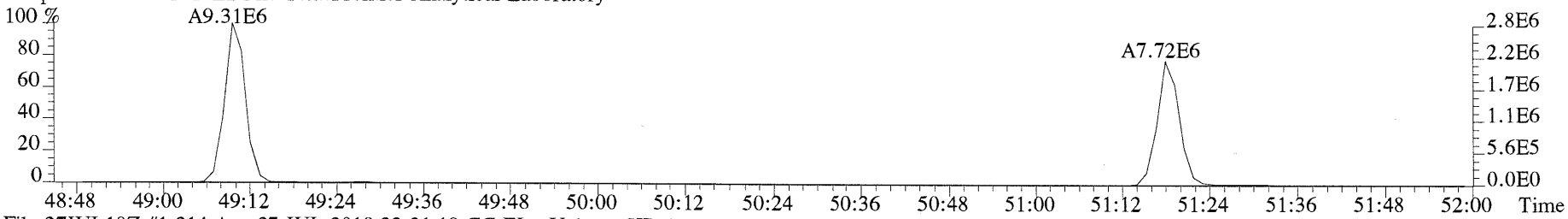
File:27JUL18Z #1-314 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



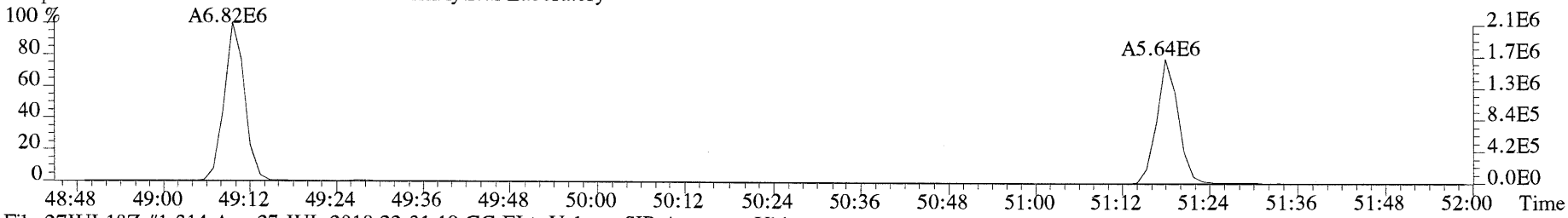
File:27JUL18Z #1-314 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



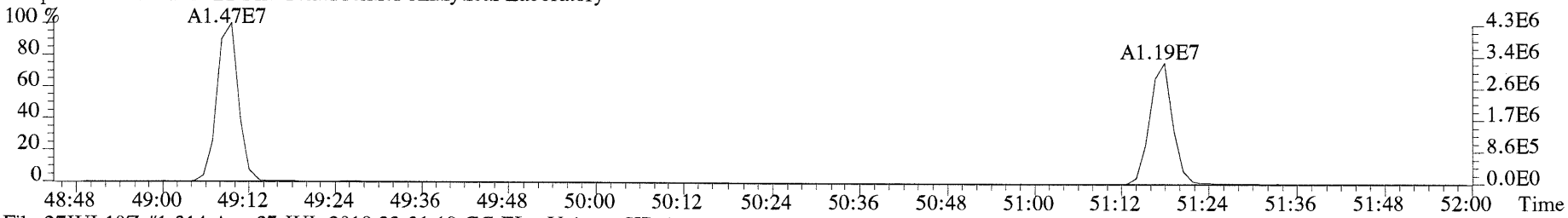
File:27JUL18Z #1-314 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



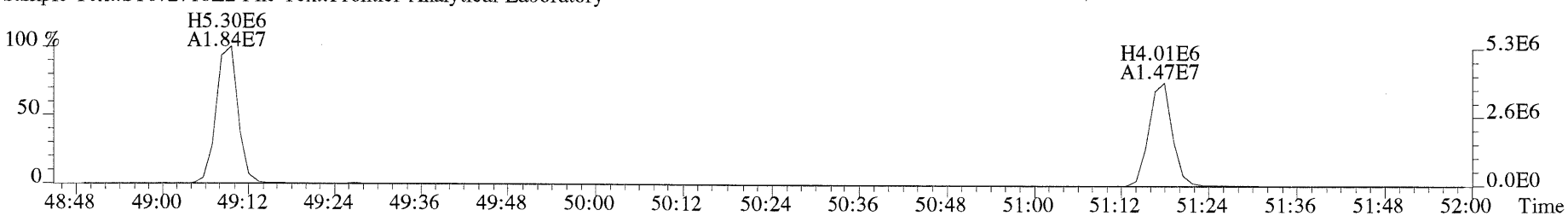
File:27JUL18Z #1-314 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



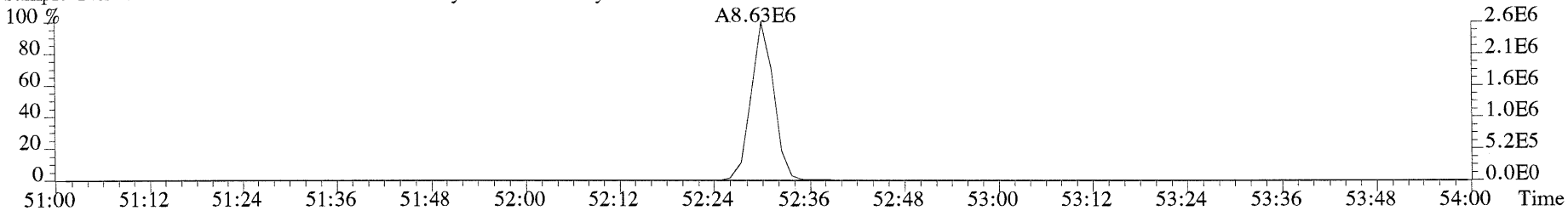
File:27JUL18Z #1-314 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



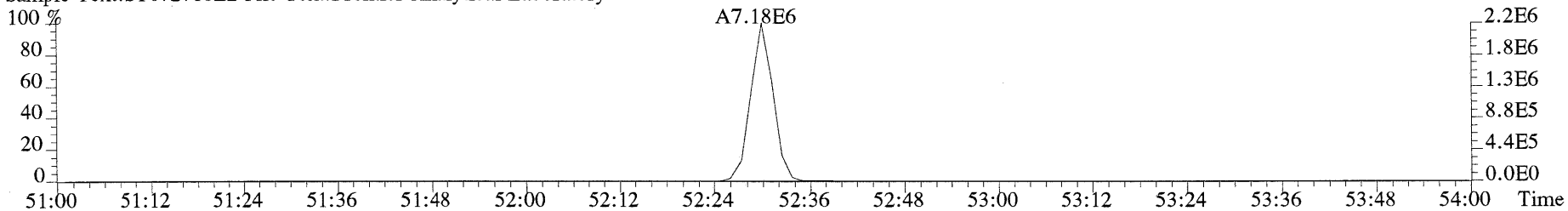
File:27JUL18Z #1-314 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



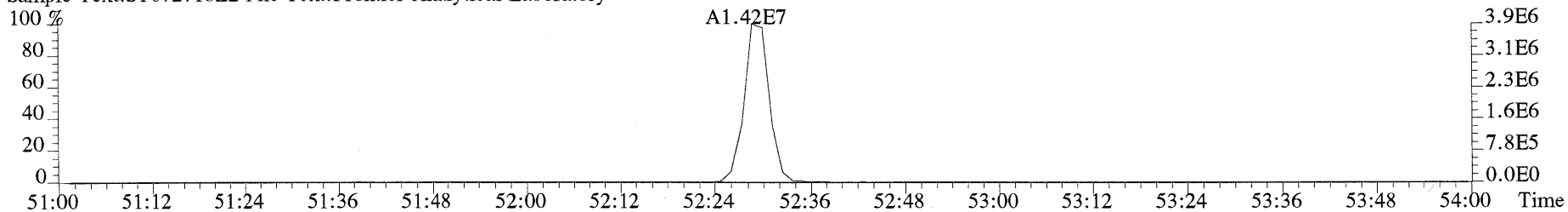
File:27JUL18Z #1-314 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



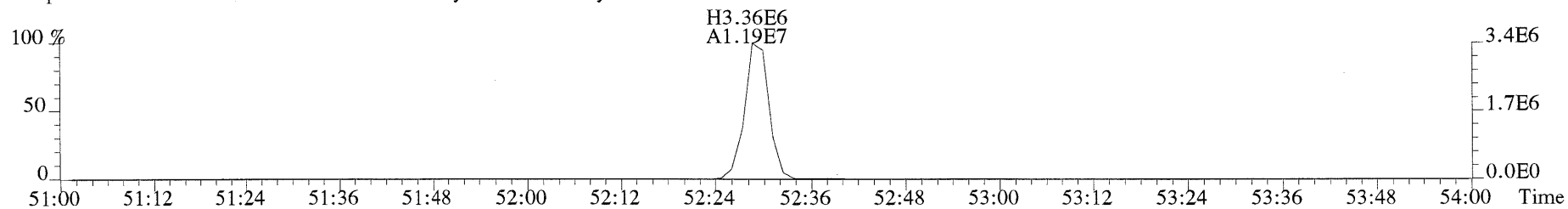
File:27JUL18Z #1-314 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory



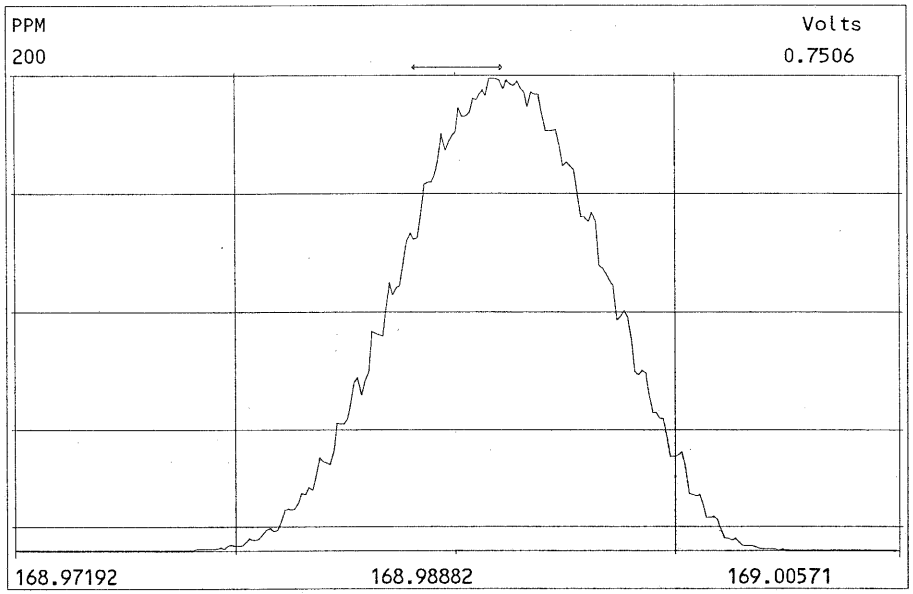
File:27JUL18Z #1-314 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory

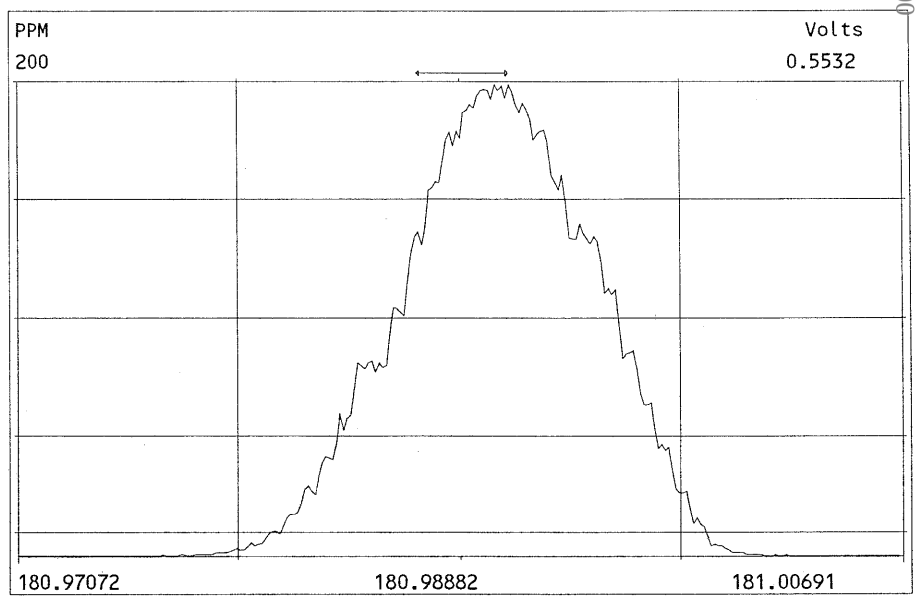


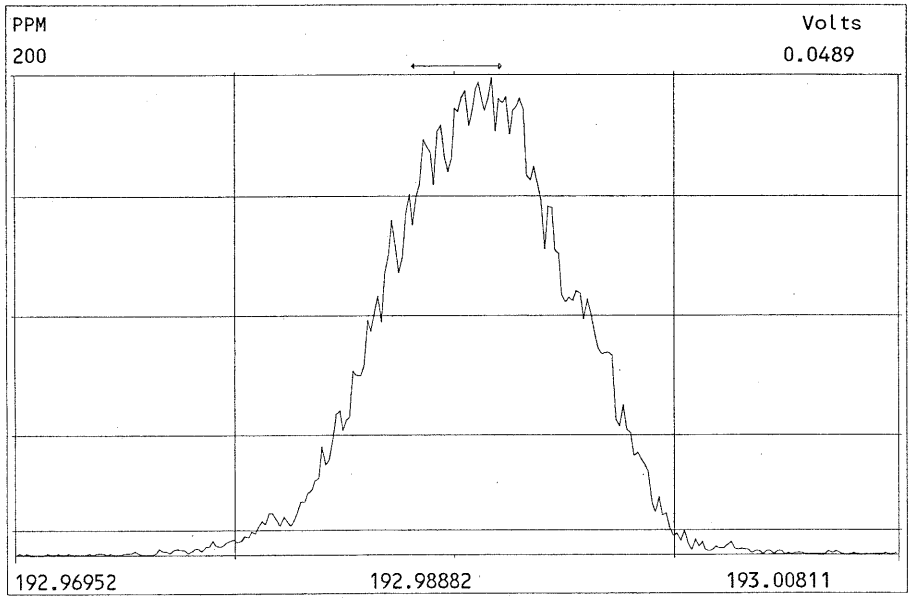
File:27JUL18Z #1-314 Acq:27-JUL-2018 22:31:19 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072718Z2 File Text:Frontier Analytical Laboratory

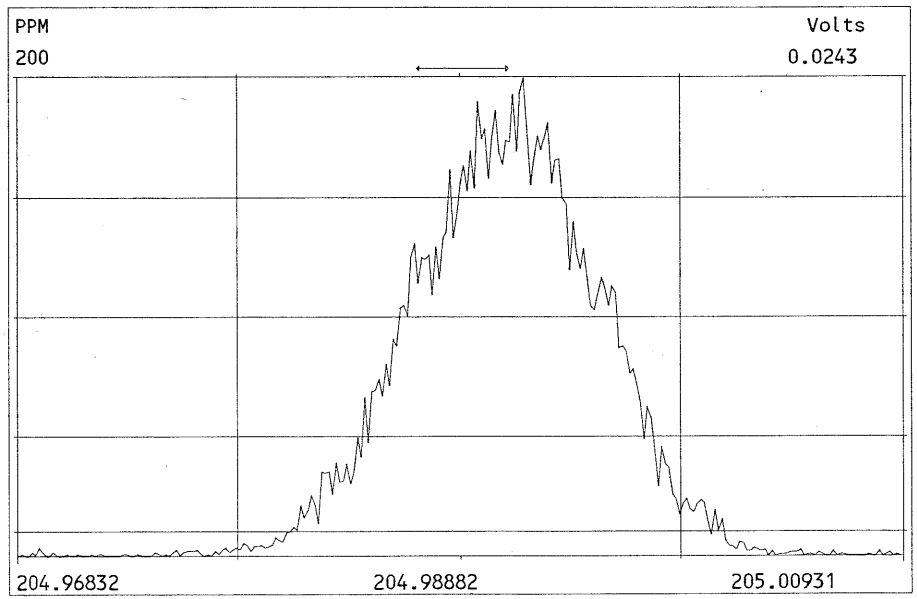


Peak Locate Examination:27-JUL-2018:23:58 File:27JUL18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

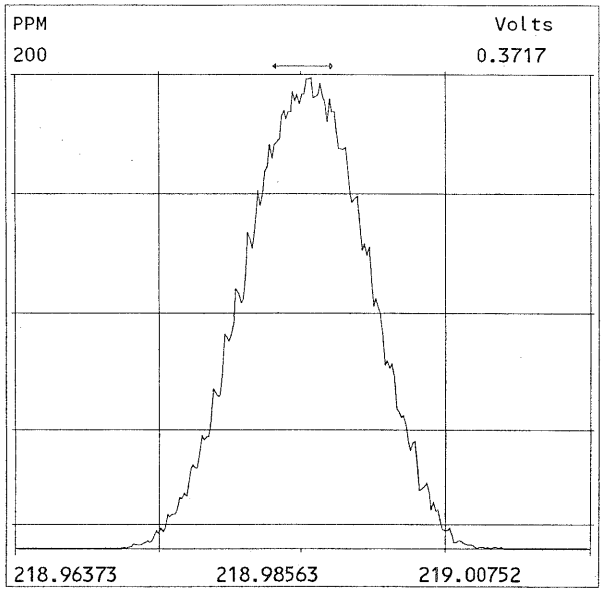


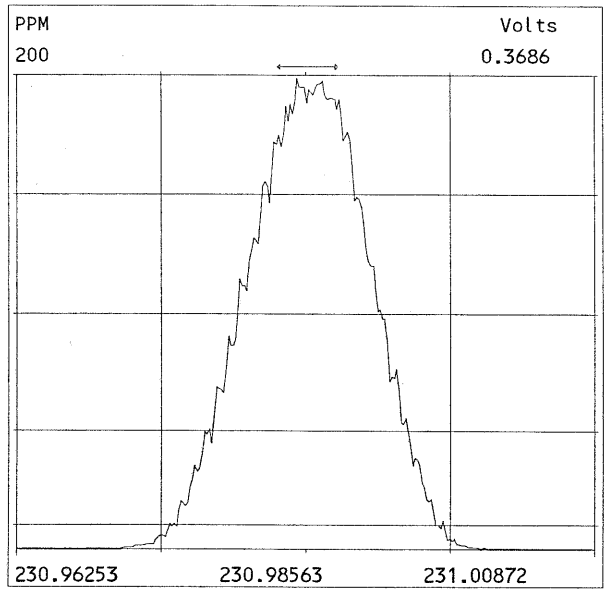


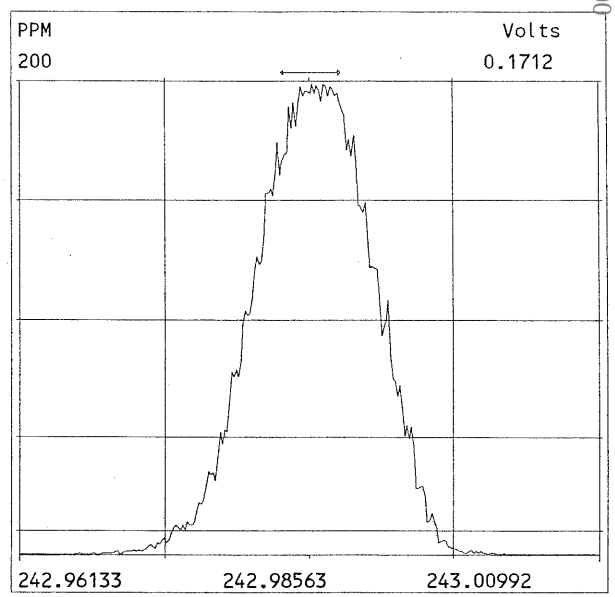


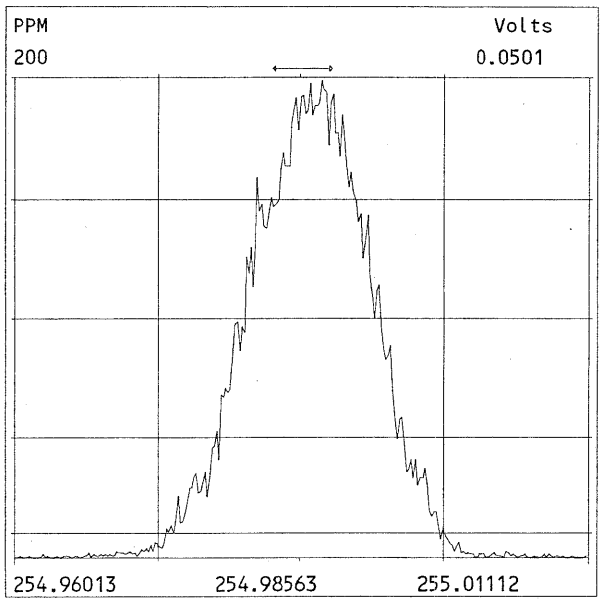


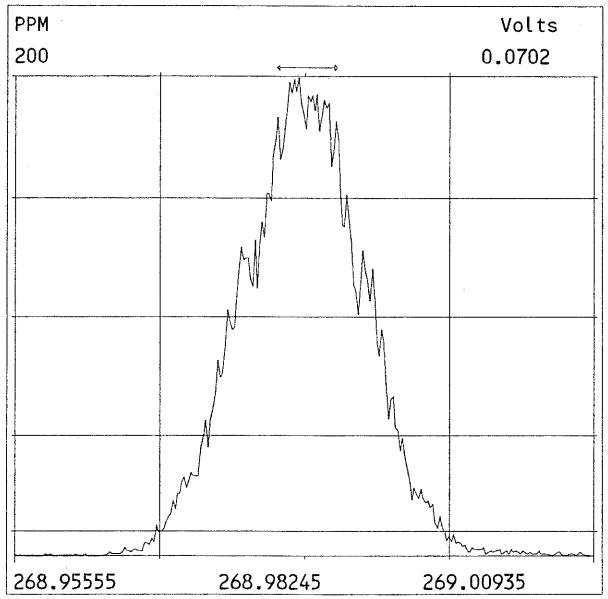
Peak Locate Examination:28-JUL-2018:00:00 File:27JUL18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

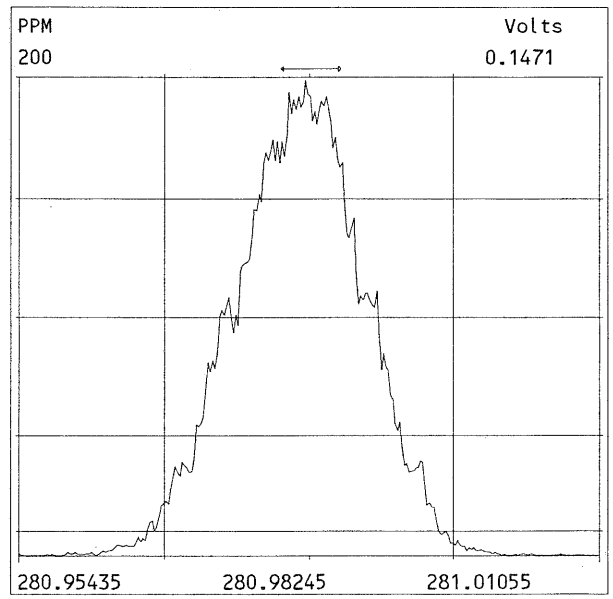




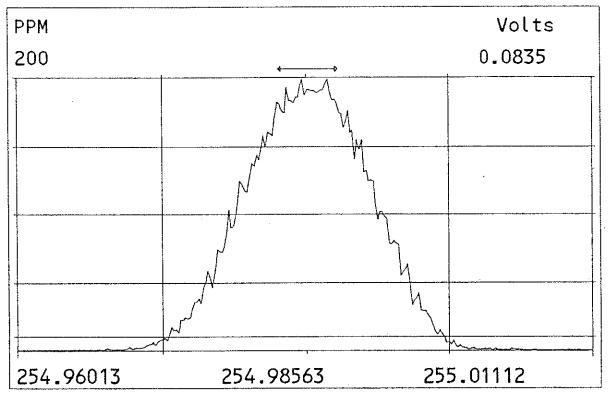


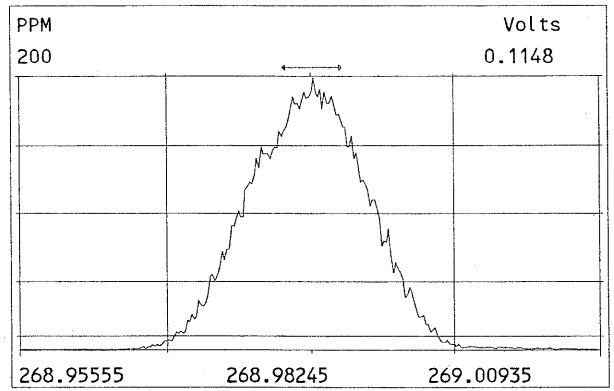


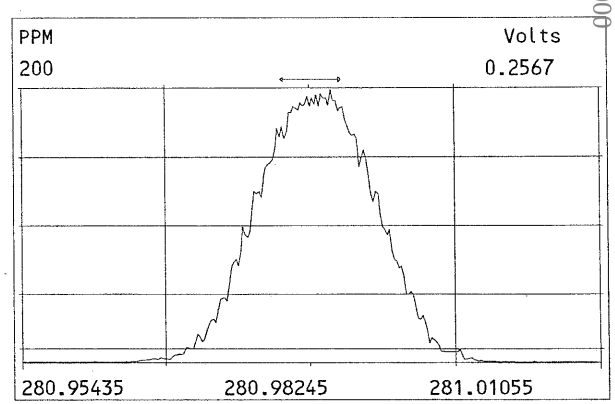


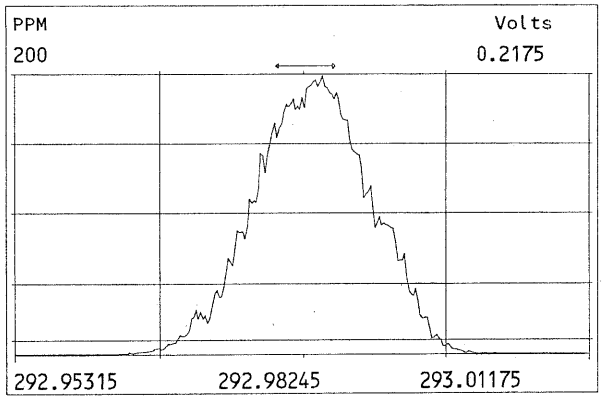


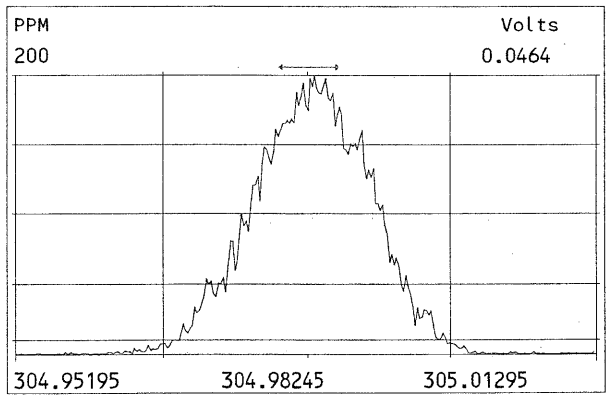
Peak Locate Examination:28-JUL-2018:00:03 File:27JUL18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

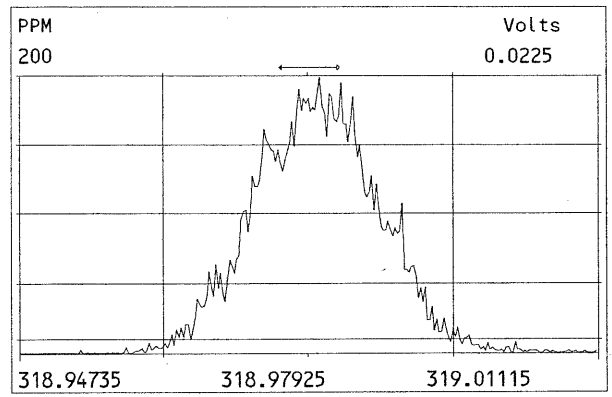


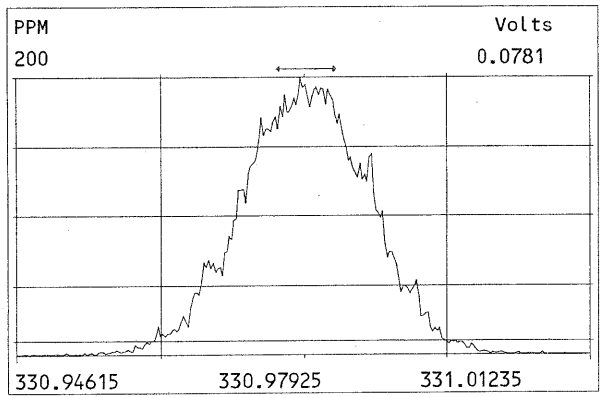


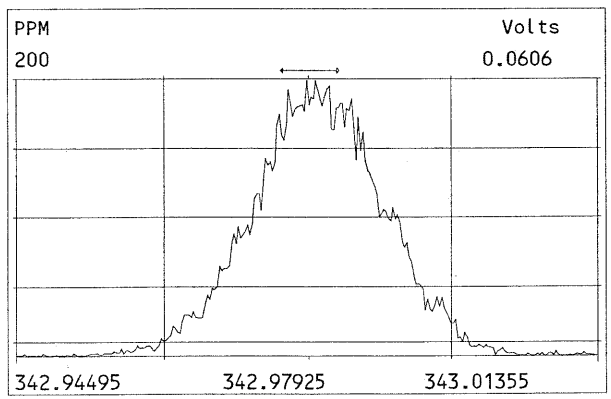






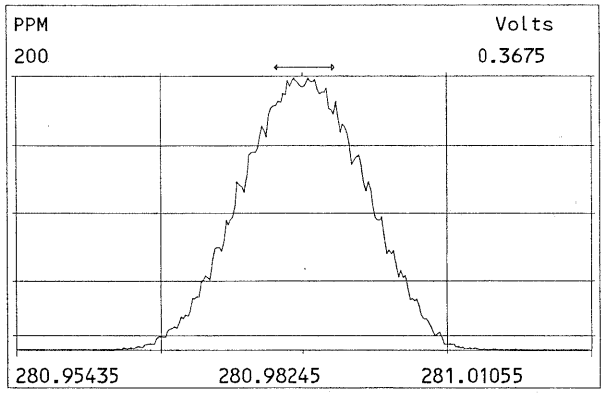


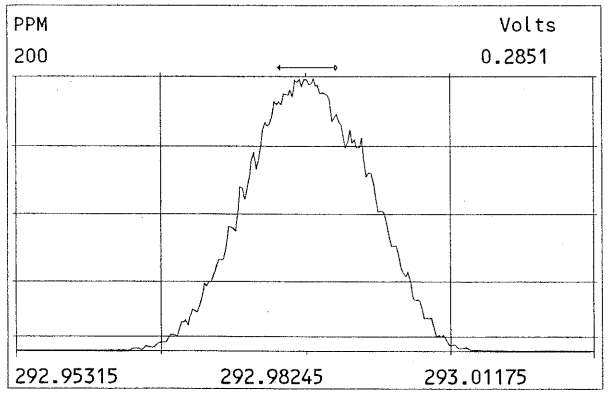


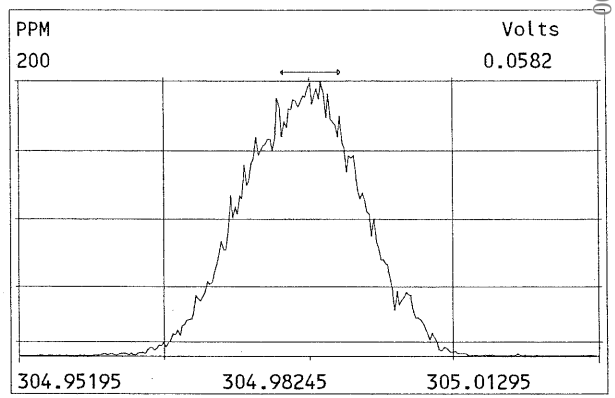


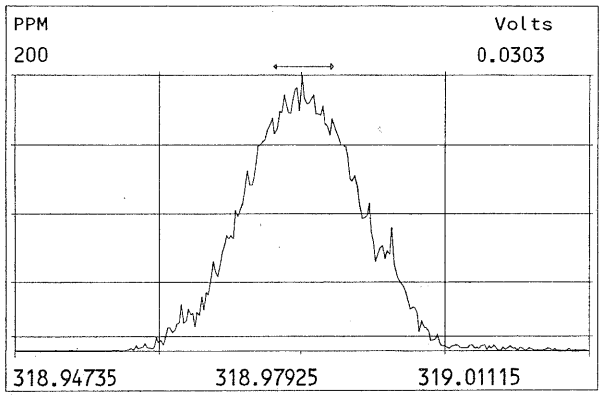
Peak Locate Examination:28-JUL-2018:00:05 File:27JUL18Z_RES_CHECK

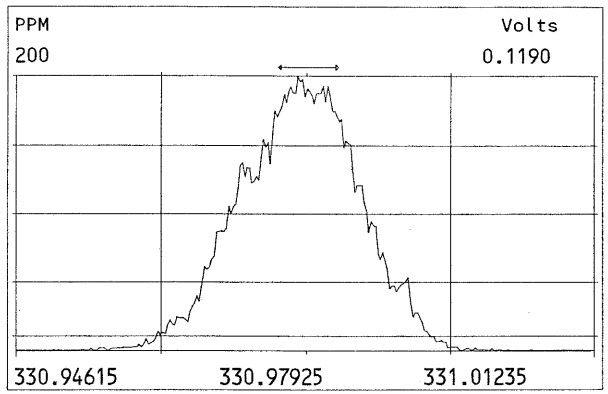
Experiment:1668PCB Function:4 Reference:PFK

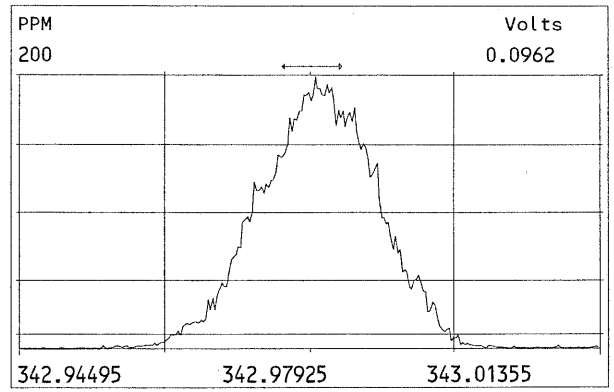


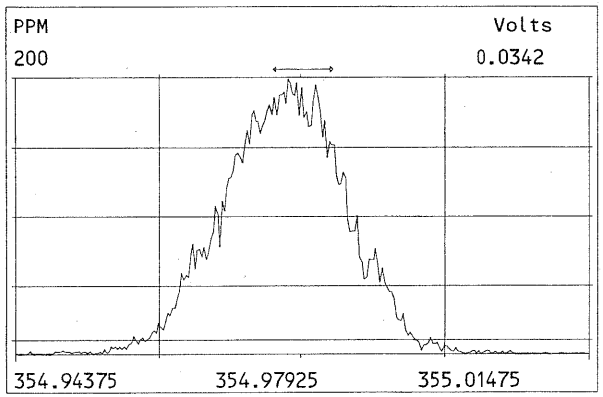


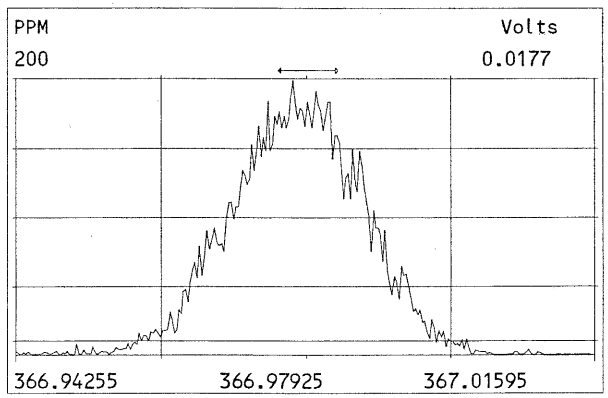


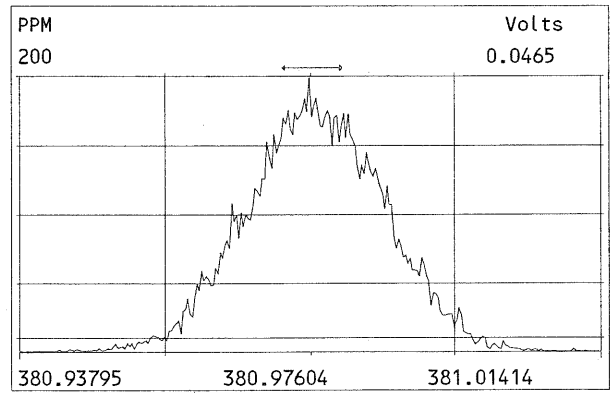




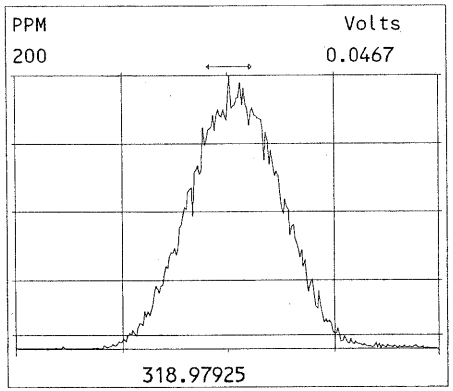


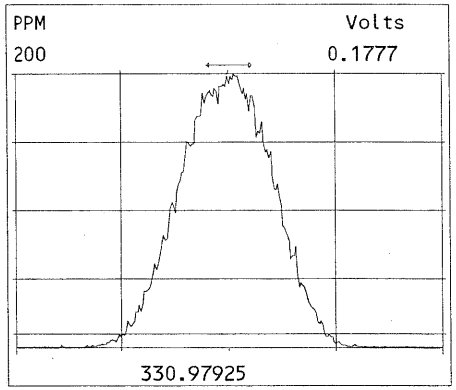


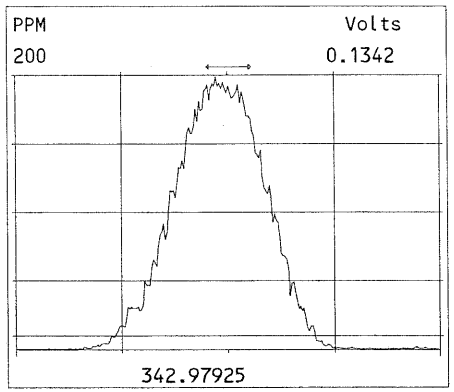


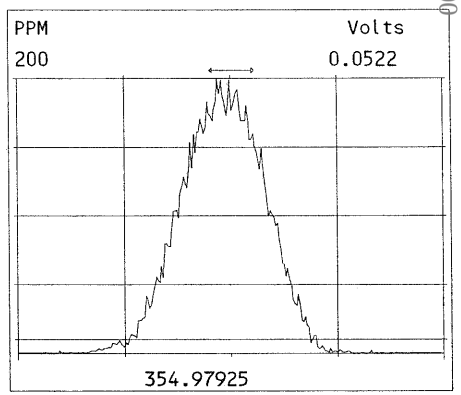


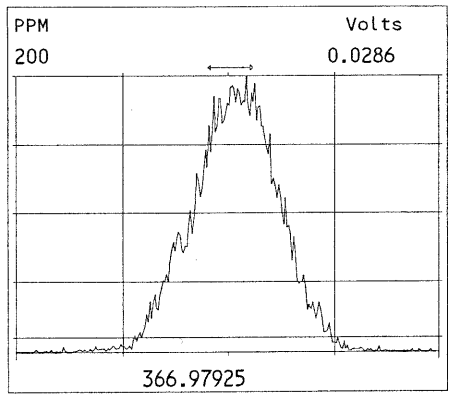
Peak Locate Examination:28-JUL-2018:00:08 File:27JUL18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

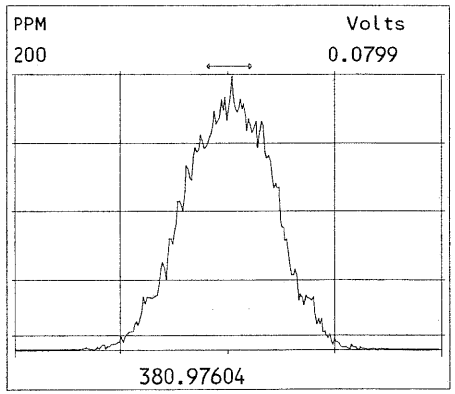


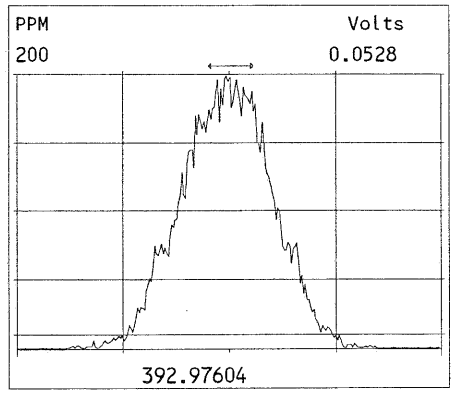


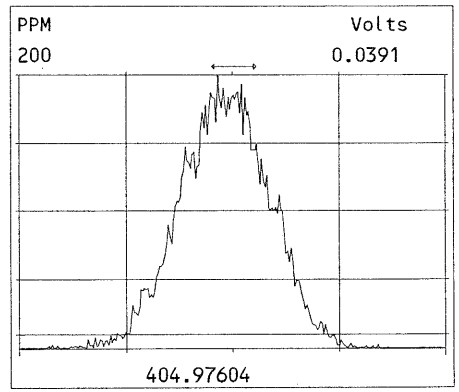


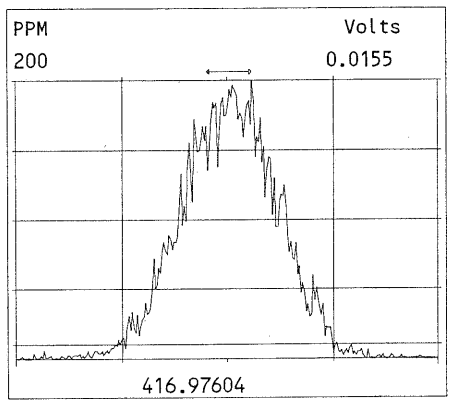


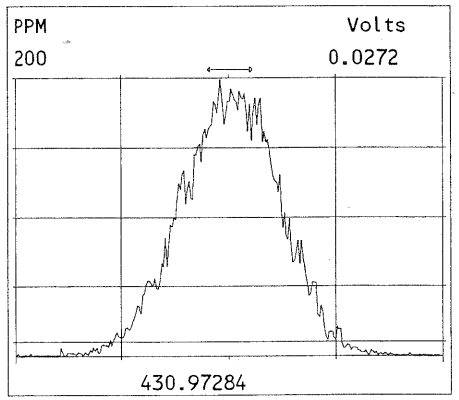


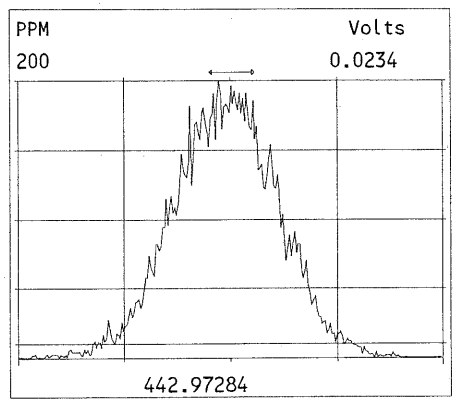
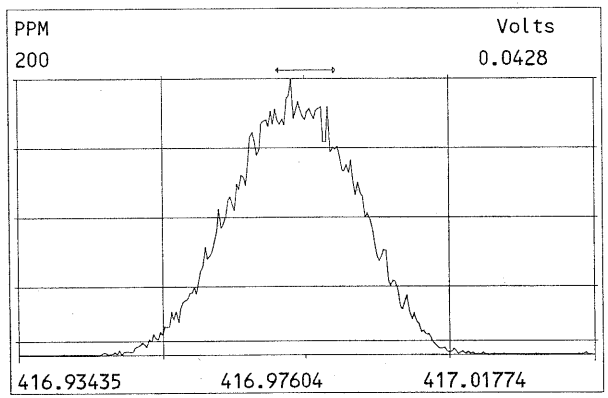
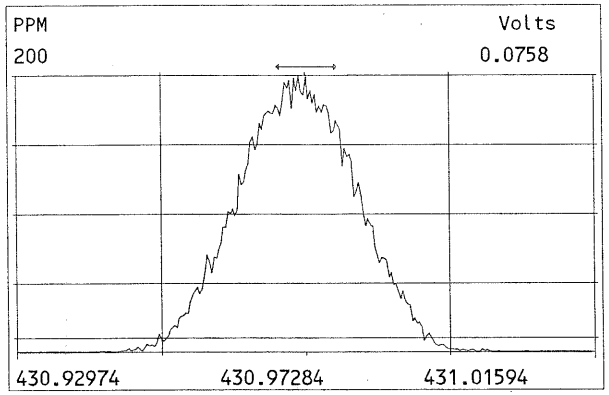
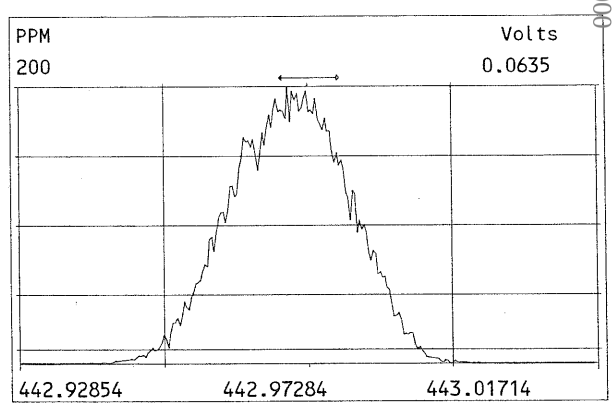
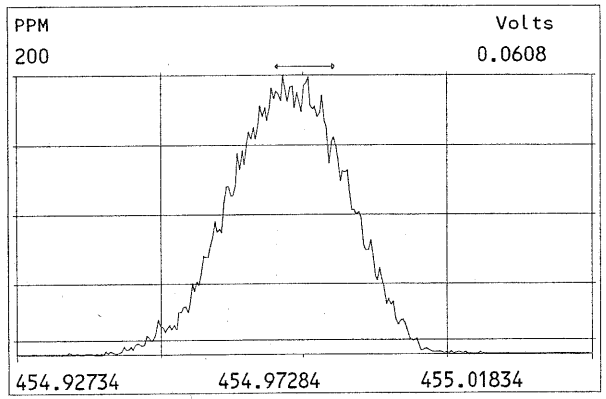
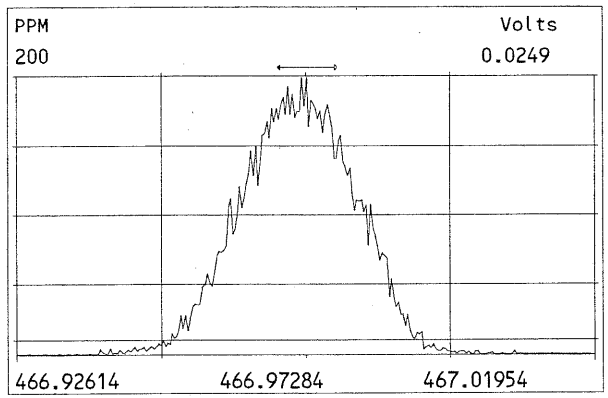
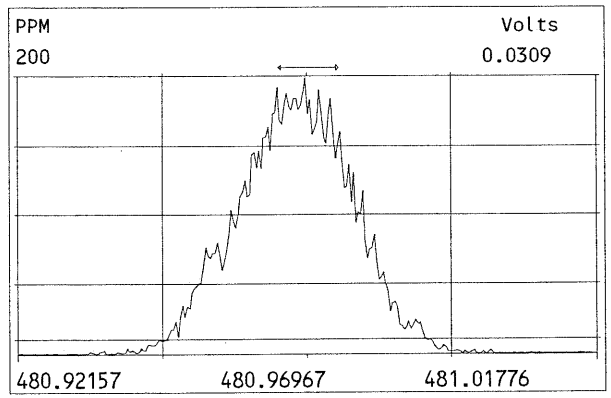
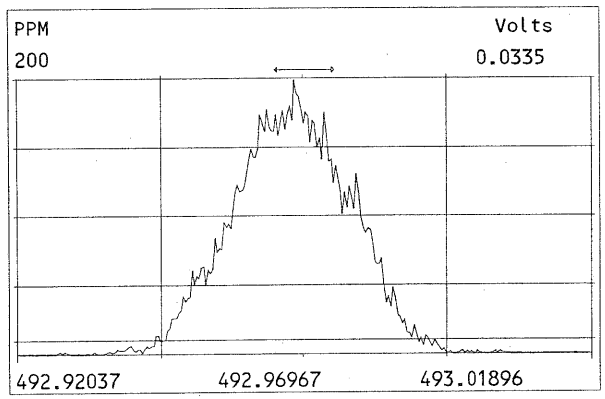
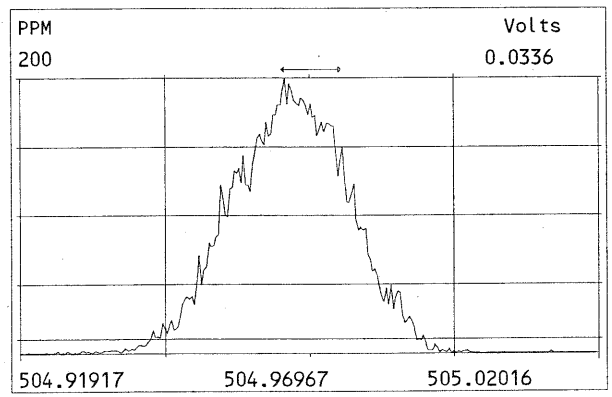
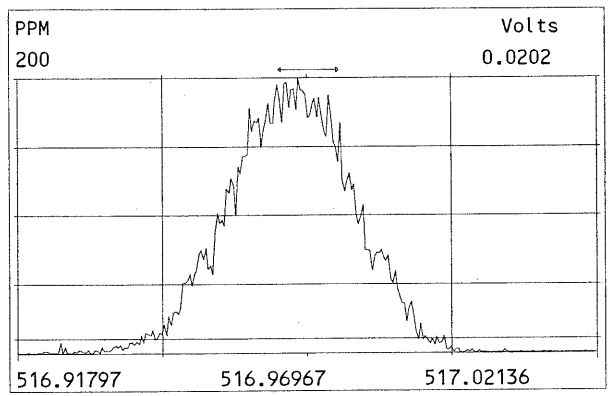












Peak Locate Examination:28-JUL-2018:00:10 File:27JUL18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK