August 7, 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 **11719**. These results correspond to your project **LDW ENR/AC Pilot Study** and project number **LY15160310**. Eighteen sediment samples were received on 7/10/2018 in good condition. All eighteen 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 **11719**.

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 custodies, our sample login form and a sample photo. The Laboratory Raw Data section contains our project request sheet, a percent solids sheet, an extraction bench sheet and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms 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 **11719**, 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: **11719**

Received on: **07/10/2018** Project Due: **08/08/2018** Storage: **R-3**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
11719-001-SA	0	LY15160310	LDW-Y1-IN-ENR-CA-CORE	EPA 1668 PCB	Sediment	07/06/2018	01:45 pm	07/08/2019
11719-002-SA	0	LY15160310	LDW-Y1-IN-ENR-CB-CORE	EPA 1668 PCB	Sediment	07/06/2018	02:00 pm	07/08/2019
11719-003-SA	0	LY15160310	LDW-Y1-IN-ENR-CC-CORE	EPA 1668 PCB	Sediment	07/06/2018	02:20 pm	07/08/2019
11719-004-SA	0	LY15160310	LDW-Y1-IN-ENR+AC-CA-CORE	EPA 1668 PCB	Sediment	07/06/2018	03:00 pm	07/08/2019
11719-005-SA	0	LY15160310	LDW-Y1-IN-ENR+AC-CB-CORE	EPA 1668 PCB	Sediment	07/06/2018	03:10 pm	07/08/2019
11719-006-SA	0	LY15160310	LDW-Y1-IN-ENR+AC-CC-CORE	EPA 1668 PCB	Sediment	07/06/2018	03:20 pm	07/08/2019
11719-007-SA	0	LY15160310	LDW-Y1-SC-ENR-CA-CORE	EPA 1668 PCB	Sediment	07/06/2018	10:45 am	07/08/2019
11719-008-SA	0	LY15160310	LDW-Y1-SC-ENR-CB-CORE	EPA 1668 PCB	Sediment	07/06/2018	11:00 am	07/08/2019
11719-009-SA	0	LY15160310	LDW-Y1-SC-ENR-CC-CORE	EPA 1668 PCB	Sediment	07/06/2018	11:20 am	07/08/2019
11719-010-SA	0	LY15160310	LDW-Y1-SC-ENR+AC-CA-CORE	EPA 1668 PCB	Sediment	07/06/2018	12:05 pm	07/08/2019
11719-011-SA	0	LY15160310	LDW-Y1-SC-ENR+AC-CB-CORE	EPA 1668 PCB	Sediment	07/06/2018	12:45 pm	07/08/2019
11719-012-SA	0	LY15160310	LDW-Y1-SC-ENR+AC-CC-CORE	EPA 1668 PCB	Sediment	07/06/2018	01:00 pm	07/08/2019
11719-013-SA	0	LY15160310	LDW-Y1-SU-ENR-CA-CORE	EPA 1668 PCB	Sediment	05/03/2018	09:50 am	05/03/2019
11719-014-SA	0	LY15160310	LDW-Y1-SU-ENR-CB-CORE	EPA 1668 PCB	Sediment	05/03/2018	10:10 am	05/03/2019
11719-015-SA	0	LY15160310	LDW-Y1-SU-ENR-CC-CORE	EPA 1668 PCB	Sediment	05/03/2018	10:25 am	05/03/2019
11719-016-SA	0	LY15160310	LDW-Y1-SU-ENR+AC-CA-CORE	EPA 1668 PCB	Sediment	05/03/2018	12:00 pm	05/03/2019
11719-017-SA	0	LY15160310	LDW-Y1-SU-ENR+AC-CB-CORE	EPA 1668 PCB	Sediment	05/03/2018	12:15 pm	05/03/2019
11719-018-SA	0	LY15160310	LDW-Y1-SU-ENR+AC-CC-CORE	EPA 1668 PCB	Sediment	05/03/2018	12:25 pm	05/03/2019

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EPA Method 1668
PCBs

FAL ID: 11719-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018
Total Conc: 0.0

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	0.699			PCB-51	ND	0.736		
PCB-2	ND	0.827			PCB-52	ND	0.651	C	69
PCB-3	ND	0.799			PCB-53	ND	0.748		
PCB-4	ND	1.28			PCB-54	ND	0.577		
PCB-5	ND	1.13			PCB-55	ND	0.574		
PCB-6	ND	1.17			PCB-56	ND	0.694	C	60
PCB-7	ND	1.10			PCB-57	ND	0.618		
PCB-8	ND	1.20			PCB-58	ND	0.595		
PCB-9	ND	1.17			PCB-59	-	-	C042	42
PCB-10	ND	1.30			PCB-60	-	-	C056	56
PCB-11	ND	1.27			PCB-61	ND	0.566	C	70
PCB-12	ND	1.16			PCB-62	ND	0.578		
PCB-13	ND	1.23			PCB-63	ND	0.588		
PCB-14	ND	1.23			PCB-64	-	-	C041	41/71/72
PCB-15	ND	1.16			PCB-65	ND	0.640		
PCB-16	ND	0.942			PCB-66	ND	0.570	C	76
PCB-17	ND	1.03			PCB-67	ND	0.625		
PCB-18	ND	1.13			PCB-68	ND	0.545		
PCB-19	ND	1.09			PCB-69	-	-	C052	52
PCB-20	ND	0.768	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	0.759			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.778			PCB-73	ND	0.546		
PCB-24	ND	0.768			PCB-74	ND	0.569		
PCB-25	ND	0.645			PCB-75	-	-	C048	48
PCB-26	ND	0.815			PCB-76	-	-	C066	66
PCB-27	ND	0.841			PCB-77	ND	0.762		
PCB-28	ND	0.656			PCB-78	ND	0.746		
PCB-29	ND	0.771			PCB-79	ND	0.712		
PCB-30	ND	0.790			PCB-80	ND	0.537		
PCB-31	ND	0.795			PCB-81	ND	0.663		
PCB-32	ND	0.900			PCB-82	ND	1.52		
PCB-33	-	-	C020	20/21	PCB-83	ND	1.13	C	112
PCB-34	ND	0.778			PCB-84	ND	1.29	C	92
PCB-35	ND	0.890			PCB-85	ND	1.14	C	116
PCB-36	ND	0.847			PCB-86	ND	1.22		
PCB-37	ND	0.751			PCB-87	ND	1.04	C	117/125
PCB-38	ND	0.800			PCB-88	ND	1.15	C	91
PCB-39	ND	0.805			PCB-89	ND	1.31		
PCB-40	ND	0.974			PCB-90	ND	1.13	C	101
PCB-41	ND	0.596	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	0.635	C	59	PCB-92	-	-	C084	84
PCB-43	ND	0.779	C	49	PCB-93	ND	1.28		
PCB-44	ND	0.849			PCB-94	ND	1.26		
PCB-45	ND	0.884			PCB-95	ND	1.19		
PCB-46	ND	0.905			PCB-96	ND	0.922		
PCB-47	ND	0.600			PCB-97	ND	1.08		
PCB-48	ND	0.622	C	75	PCB-98	ND	1.02	C	102
PCB-49	-	-	C043	43	PCB-99	ND	1.07		
PCB-50	ND	0.759			PCB-100	ND	1.06		

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EPA Method 1668
PCBs

FAL ID: 11719-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	1.43		
PCB-102	-	-	C098	98	PCB-152	ND	0.747		
PCB-103	ND	1.09			PCB-153	ND	1.16		
PCB-104	ND	0.812			PCB-154	ND	0.827		
PCB-105	ND	0.950			PCB-155	ND	0.652		
PCB-106	ND	0.880	C	118	PCB-156	ND	1.03		
PCB-107	ND	0.836	C	108	PCB-157	ND	1.02		
PCB-108	-	-	C107	107	PCB-158	ND	1.01	C	160
PCB-109	ND	0.954			PCB-159	ND	1.01		
PCB-110	ND	0.840			PCB-160	-	-	C158	158
PCB-111	ND	0.778	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.01			PCB-163	-	-	C138	138/164
PCB-114	ND	0.859			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	1.09		
PCB-117	-	-	C087	87/125	PCB-167	ND	1.12		
PCB-118	-	-	C	106	PCB-168	ND	1.03		
PCB-119	ND	0.947			PCB-169	ND	1.12		
PCB-120	ND	0.925			PCB-170	ND	0.952		
PCB-121	ND	0.914			PCB-171	ND	0.882		
PCB-122	ND	0.847			PCB-172	ND	0.977		
PCB-123	ND	0.762			PCB-173	ND	0.958		
PCB-124	ND	0.954			PCB-174	ND	0.864		
PCB-125	-	-	C087	87/117	PCB-175	ND	0.853		
PCB-126	ND	1.08			PCB-176	ND	0.661		
PCB-127	ND	0.959			PCB-177	ND	0.931		
PCB-128	ND	1.21	C	162	PCB-178	ND	0.894		
PCB-129	ND	1.57			PCB-179	ND	0.647		
PCB-130	ND	1.57			PCB-180	ND	0.695		
PCB-131	ND	1.32	C	133	PCB-181	ND	0.831		
PCB-132	ND	1.18	C	161	PCB-182	ND	0.778	C	187
PCB-133	-	-	C131	131	PCB-183	ND	0.805		
PCB-134	ND	1.32	C	143	PCB-184	ND	0.600		
PCB-135	ND	1.51			PCB-185	ND	0.837		
PCB-136	ND	0.751			PCB-186	ND	0.644		
PCB-137	ND	1.30			PCB-187	-	-	C182	182
PCB-138	ND	1.02	C	163/164	PCB-188	ND	0.610		
PCB-139	ND	1.24	C	149	PCB-189	ND	0.645		
PCB-140	ND	1.29			PCB-190	ND	0.724		
PCB-141	ND	1.32			PCB-191	ND	0.705		
PCB-142	ND	1.56			PCB-192	ND	0.670		
PCB-143	-	-	C134	134	PCB-193	ND	0.646		
PCB-144	ND	1.22			PCB-194	ND	0.772		
PCB-145	ND	0.723			PCB-195	ND	0.836		
PCB-146	ND	1.12	C	165	PCB-196	ND	0.976	C	203
PCB-147	ND	1.32			PCB-197	ND	0.759		
PCB-148	ND	0.970			PCB-198	ND	1.12		
PCB-149	-	-	C139	139	PCB-199	ND	1.03		
PCB-150	ND	0.711			PCB-200	ND	0.816		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	0.809		
PCB-202	ND	0.794		
PCB-203	-	-	C196	196
PCB-204	ND	0.832		
PCB-205	ND	0.574		
PCB-206	ND	0.647		
PCB-207	ND	0.551		
PCB-208	ND	0.492		
PCB-209	ND	0.627		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	82.5	5.00 - 145	
13C-PCB-3	84.1	5.00 - 145	
13C-PCB-4	87.9	5.00 - 145	
13C-PCB-15	90.8	5.00 - 145	
13C-PCB-19	86.5	5.00 - 145	
13C-PCB-37	93.7	5.00 - 145	
13C-PCB-54	91.6	5.00 - 145	
13C-PCB-77	95.5	10.0 - 145	
13C-PCB-81	96.5	10.0 - 145	
13C-PCB-104	90.1	10.0 - 145	
13C-PCB-105	95.4	10.0 - 145	
13C-PCB-114	99.7	10.0 - 145	
13C-PCB-118	101	10.0 - 145	
13C-PCB-123	93.7	10.0 - 145	
13C-PCB-126	98.1	10.0 - 145	
13C-PCB-155	93.6	10.0 - 145	
13C-PCB-156	95.2	10.0 - 145	
13C-PCB-157	96.2	10.0 - 145	
13C-PCB-167	95.2	10.0 - 145	
13C-PCB-169	95.2	10.0 - 145	
13C-PCB-188	90.9	10.0 - 145	
13C-PCB-189	93.1	10.0 - 145	
13C-PCB-202	89.0	10.0 - 145	
13C-PCB-205	88.6	10.0 - 145	
13C-PCB-206	86.3	10.0 - 145	
13C-PCB-208	86.4	10.0 - 145	
13C-PCB-209	85.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	101	5.00 - 145	
13C-PCB-111	97.1	10.0 - 145	
13C-PCB-178	98.3	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-001-OPR
Client ID: OPR
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: ng/ml

Acquired: 07-30-2018

Compound	% Recovery	QC Limits	Qual
PCB-1	118	60.0 - 135	
PCB-3	123	60.0 - 135	
PCB-4	106	60.0 - 135	
PCB-15	109	60.0 - 135	
PCB-19	122	60.0 - 135	
PCB-37	112	60.0 - 135	
PCB-54	122	60.0 - 135	
PCB-77	124	60.0 - 135	
PCB-81	118	60.0 - 135	
PCB-104	120	60.0 - 135	
PCB-105	119	60.0 - 135	
PCB-114	119	60.0 - 135	
PCB-118	128	60.0 - 135	
PCB-123	103	60.0 - 135	
PCB-126	118	60.0 - 135	
PCB-155	122	60.0 - 135	
PCB-156	124	60.0 - 135	
PCB-157	118	60.0 - 135	
PCB-167	130	60.0 - 135	
PCB-169	127	60.0 - 135	
PCB-188	125	60.0 - 135	
PCB-189	127	60.0 - 135	
PCB-202	133	60.0 - 135	
PCB-205	126	60.0 - 135	
PCB-206	126	60.0 - 135	
PCB-208	124	60.0 - 135	
PCB-209	124	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	85.7	15.0 - 145	
13C-PCB-3	85.3	15.0 - 145	
13C-PCB-4	87.2	15.0 - 145	
13C-PCB-15	93.0	15.0 - 145	
13C-PCB-19	87.7	15.0 - 145	
13C-PCB-37	91.8	15.0 - 145	
13C-PCB-54	91.2	15.0 - 145	
13C-PCB-77	94.7	40.0 - 145	
13C-PCB-81	95.7	40.0 - 145	
13C-PCB-104	89.5	40.0 - 145	
13C-PCB-105	91.3	40.0 - 145	
13C-PCB-114	96.9	40.0 - 145	
13C-PCB-118	95.4	40.0 - 145	
13C-PCB-123	93.8	40.0 - 145	
13C-PCB-126	94.3	40.0 - 145	
13C-PCB-155	91.8	40.0 - 145	
13C-PCB-156	90.6	40.0 - 145	
13C-PCB-157	91.4	40.0 - 145	
13C-PCB-167	90.2	40.0 - 145	
13C-PCB-169	94.1	40.0 - 145	
13C-PCB-188	88.4	40.0 - 145	
13C-PCB-189	90.1	40.0 - 145	
13C-PCB-202	87.3	40.0 - 145	
13C-PCB-205	87.2	40.0 - 145	
13C-PCB-206	86.2	40.0 - 145	
13C-PCB-208	83.5	40.0 - 145	
13C-PCB-209	84.6	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	104	15.0 - 145	
13C-PCB-111	96.9	40.0 - 145	
13C-PCB-178	93.8	40.0 - 145	

Analyst: _____

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018
Total Conc: 0.0

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	0.606			PCB-51	ND	0.716		
PCB-2	ND	0.744			PCB-52	ND	0.593	C	69
PCB-3	ND	0.743			PCB-53	ND	0.713		
PCB-4	ND	1.29			PCB-54	ND	0.482		
PCB-5	ND	1.21			PCB-55	ND	0.510		
PCB-6	ND	1.23			PCB-56	ND	0.617	C	60
PCB-7	ND	1.14			PCB-57	ND	0.563		
PCB-8	ND	1.23			PCB-58	ND	0.608		
PCB-9	ND	1.23			PCB-59	-	-	C042	42
PCB-10	ND	1.32			PCB-60	-	-	C056	56
PCB-11	ND	1.36			PCB-61	ND	0.508	C	70
PCB-12	ND	1.23			PCB-62	ND	0.563		
PCB-13	ND	1.29			PCB-63	ND	0.535		
PCB-14	ND	1.31			PCB-64	-	-	C041	41/71/72
PCB-15	ND	1.25			PCB-65	ND	0.539		
PCB-16	ND	0.617			PCB-66	ND	0.547	C	76
PCB-17	ND	0.668			PCB-67	ND	0.554		
PCB-18	ND	0.734			PCB-68	ND	0.529		
PCB-19	ND	0.702			PCB-69	-	-	C052	52
PCB-20	ND	0.775	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	0.751			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.704			PCB-73	ND	0.626		
PCB-24	ND	0.526			PCB-74	ND	0.483		
PCB-25	ND	0.659			PCB-75	-	-	C048	48
PCB-26	ND	0.845			PCB-76	-	-	C066	66
PCB-27	ND	0.545			PCB-77	ND	0.697		
PCB-28	ND	0.625			PCB-78	ND	0.690		
PCB-29	ND	0.803			PCB-79	ND	0.655		
PCB-30	ND	0.546			PCB-80	ND	0.496		
PCB-31	ND	0.872			PCB-81	ND	0.593		
PCB-32	ND	0.610			PCB-82	ND	1.61		
PCB-33	-	-	C020	20/21	PCB-83	ND	1.23	C	112
PCB-34	ND	0.756			PCB-84	ND	1.43	C	92
PCB-35	ND	0.942			PCB-85	ND	1.18	C	116
PCB-36	ND	0.882			PCB-86	ND	1.24		
PCB-37	ND	0.756			PCB-87	ND	1.13	C	117/125
PCB-38	ND	0.760			PCB-88	ND	0.819	C	91
PCB-39	ND	1.00			PCB-89	ND	1.48		
PCB-40	ND	0.923			PCB-90	ND	1.25	C	101
PCB-41	ND	0.595	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	0.641	C	59	PCB-92	-	-	C084	84
PCB-43	ND	0.756	C	49	PCB-93	ND	0.919		
PCB-44	ND	0.820			PCB-94	ND	0.856		
PCB-45	ND	0.859			PCB-95	ND	0.846		
PCB-46	ND	0.842			PCB-96	ND	0.657		
PCB-47	ND	0.651			PCB-97	ND	1.14		
PCB-48	ND	0.570	C	75	PCB-98	ND	0.734	C	102
PCB-49	-	-	C043	43	PCB-99	ND	1.10		
PCB-50	ND	0.759			PCB-100	ND	0.761		

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EPA Method 1668
PCBs

FAL ID: 11719-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	0.902		
PCB-102	-	-	C098	98	PCB-152	ND	0.655		
PCB-103	ND	0.768			PCB-153	ND	0.644		
PCB-104	ND	0.587			PCB-154	ND	0.669		
PCB-105	ND	0.655			PCB-155	ND	0.560		
PCB-106	ND	0.720	C	118	PCB-156	ND	0.661		
PCB-107	ND	0.618	C	108	PCB-157	ND	0.573		
PCB-108	-	-	C107	107	PCB-158	ND	0.579	C	160
PCB-109	ND	1.03			PCB-159	ND	0.587		
PCB-110	ND	0.966			PCB-160	-	-	C158	158
PCB-111	ND	0.906	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.20			PCB-163	-	-	C138	138/164
PCB-114	ND	0.542			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	0.617		
PCB-117	-	-	C087	87/125	PCB-167	ND	0.626		
PCB-118	-	-	C	106	PCB-168	ND	0.593		
PCB-119	ND	1.05			PCB-169	ND	0.621		
PCB-120	ND	0.958			PCB-170	ND	0.944		
PCB-121	ND	0.667			PCB-171	ND	0.884		
PCB-122	ND	0.653			PCB-172	ND	0.938		
PCB-123	ND	0.487			PCB-173	ND	0.990		
PCB-124	ND	0.618			PCB-174	ND	0.836		
PCB-125	-	-	C087	87/117	PCB-175	ND	0.871		
PCB-126	ND	0.767			PCB-176	ND	0.651		
PCB-127	ND	0.702			PCB-177	ND	0.949		
PCB-128	ND	0.691	C	162	PCB-178	ND	0.906		
PCB-129	ND	0.897			PCB-179	ND	0.636		
PCB-130	ND	0.792			PCB-180	ND	0.688		
PCB-131	ND	0.769	C	133	PCB-181	ND	0.855		
PCB-132	ND	0.702	C	161	PCB-182	ND	0.760	C	187
PCB-133	-	-	C131	131	PCB-183	ND	0.802		
PCB-134	ND	0.769	C	143	PCB-184	ND	0.580		
PCB-135	ND	0.772			PCB-185	ND	0.846		
PCB-136	ND	0.698			PCB-186	ND	0.618		
PCB-137	ND	0.860			PCB-187	-	-	C182	182
PCB-138	ND	0.587	C	163/164	PCB-188	ND	0.604		
PCB-139	ND	0.721	C	149	PCB-189	ND	0.642		
PCB-140	ND	0.712			PCB-190	ND	0.705		
PCB-141	ND	0.766			PCB-191	ND	0.697		
PCB-142	ND	0.842			PCB-192	ND	0.666		
PCB-143	-	-	C134	134	PCB-193	ND	0.658		
PCB-144	ND	0.774			PCB-194	ND	0.688		
PCB-145	ND	0.626			PCB-195	ND	0.702		
PCB-146	ND	0.647	C	165	PCB-196	ND	0.930	C	203
PCB-147	ND	0.714			PCB-197	ND	0.736		
PCB-148	ND	0.791			PCB-198	ND	1.02		
PCB-149	-	-	C139	139	PCB-199	ND	1.07		
PCB-150	ND	0.634			PCB-200	ND	0.788		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-001-MB
Client ID: Method Blank
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	0.809		
PCB-202	ND	0.739		
PCB-203	-	-	C196	196
PCB-204	ND	0.790		
PCB-205	ND	0.532		
PCB-206	ND	0.354		
PCB-207	ND	0.284		
PCB-208	ND	0.246		
PCB-209	ND	0.267		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	85.7	5.00 - 145	
13C-PCB-3	82.1	5.00 - 145	
13C-PCB-4	86.2	5.00 - 145	
13C-PCB-15	88.3	5.00 - 145	
13C-PCB-19	81.6	5.00 - 145	
13C-PCB-37	99.0	5.00 - 145	
13C-PCB-54	94.9	5.00 - 145	
13C-PCB-77	90.4	10.0 - 145	
13C-PCB-81	86.8	10.0 - 145	
13C-PCB-104	87.4	10.0 - 145	
13C-PCB-105	103	10.0 - 145	
13C-PCB-114	101	10.0 - 145	
13C-PCB-118	90.1	10.0 - 145	
13C-PCB-123	87.5	10.0 - 145	
13C-PCB-126	98.7	10.0 - 145	
13C-PCB-155	86.1	10.0 - 145	
13C-PCB-156	94.0	10.0 - 145	
13C-PCB-157	100	10.0 - 145	
13C-PCB-167	93.2	10.0 - 145	
13C-PCB-169	99.0	10.0 - 145	
13C-PCB-188	100	10.0 - 145	
13C-PCB-189	98.8	10.0 - 145	
13C-PCB-202	91.5	10.0 - 145	
13C-PCB-205	95.9	10.0 - 145	
13C-PCB-206	81.0	10.0 - 145	
13C-PCB-208	79.4	10.0 - 145	
13C-PCB-209	80.5	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	111	5.00 - 145	
13C-PCB-111	91.5	10.0 - 145	
13C-PCB-178	97.4	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-001-OPR
Client ID: OPR
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: ng/ml

Acquired: 07-31-2018

Compound	% Recovery	QC Limits	Qual
PCB-1	102	60.0 - 135	
PCB-3	105	60.0 - 135	
PCB-4	94.6	60.0 - 135	
PCB-15	96.4	60.0 - 135	
PCB-19	104	60.0 - 135	
PCB-37	89.4	60.0 - 135	
PCB-54	105	60.0 - 135	
PCB-77	105	60.0 - 135	
PCB-81	105	60.0 - 135	
PCB-104	104	60.0 - 135	
PCB-105	103	60.0 - 135	
PCB-114	98.2	60.0 - 135	
PCB-118	117	60.0 - 135	
PCB-123	84.0	60.0 - 135	
PCB-126	98.0	60.0 - 135	
PCB-155	108	60.0 - 135	
PCB-156	108	60.0 - 135	
PCB-157	99.6	60.0 - 135	
PCB-167	111	60.0 - 135	
PCB-169	107	60.0 - 135	
PCB-188	107	60.0 - 135	
PCB-189	104	60.0 - 135	
PCB-202	124	60.0 - 135	
PCB-205	104	60.0 - 135	
PCB-206	114	60.0 - 135	
PCB-208	106	60.0 - 135	
PCB-209	105	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	89.7	15.0 - 145	
13C-PCB-3	85.8	15.0 - 145	
13C-PCB-4	86.7	15.0 - 145	
13C-PCB-15	91.5	15.0 - 145	
13C-PCB-19	85.7	15.0 - 145	
13C-PCB-37	95.4	15.0 - 145	
13C-PCB-54	100	15.0 - 145	
13C-PCB-77	94.6	40.0 - 145	
13C-PCB-81	85.9	40.0 - 145	
13C-PCB-104	88.0	40.0 - 145	
13C-PCB-105	95.5	40.0 - 145	
13C-PCB-114	92.0	40.0 - 145	
13C-PCB-118	88.2	40.0 - 145	
13C-PCB-123	93.0	40.0 - 145	
13C-PCB-126	97.4	40.0 - 145	
13C-PCB-155	85.8	40.0 - 145	
13C-PCB-156	93.1	40.0 - 145	
13C-PCB-157	94.9	40.0 - 145	
13C-PCB-167	92.0	40.0 - 145	
13C-PCB-169	102	40.0 - 145	
13C-PCB-188	93.4	40.0 - 145	
13C-PCB-189	94.4	40.0 - 145	
13C-PCB-202	82.5	40.0 - 145	
13C-PCB-205	92.5	40.0 - 145	
13C-PCB-206	85.2	40.0 - 145	
13C-PCB-208	83.9	40.0 - 145	
13C-PCB-209	85.8	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	115	15.0 - 145	
13C-PCB-111	93.6	40.0 - 145	
13C-PCB-178	97.7	40.0 - 145	

Analyst: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-001-SA
Client ID: LDW-Y1-IN-ENR-CA-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.02 g
% Solids: 99.84

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018
Total Conc: 5100

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	11.6	-			PCB-51	3.11	-	J	
PCB-2	2.39	-	J		PCB-52	138	-	C	69
PCB-3	9.63	-			PCB-53	7.92	-		
PCB-4	9.11	-			PCB-54	ND	0.621		
PCB-5	1.46	-	J		PCB-55	3.56	-	J	
PCB-6	13.6	-			PCB-56	38.7	-	C	60
PCB-7	3.13	-	J		PCB-57	ND	0.664		
PCB-8	32.6	-			PCB-58	ND	0.639		
PCB-9	2.70	-	J		PCB-59	-	-	C042	42
PCB-10	1.07	-	J		PCB-60	-	-	C056	56
PCB-11	5.17	-			PCB-61	106	-	C	70
PCB-12	2.76	-	J		PCB-62	ND	0.622		
PCB-13	4.85	-			PCB-63	3.05	-	J	
PCB-14	ND	0.639			PCB-64	-	-	C041	41/71/72
PCB-15	24.1	-			PCB-65	ND	0.688		
PCB-16	7.01	-			PCB-66	89.2	-	C	76
PCB-17	12.9	-			PCB-67	3.90	-	J	
PCB-18	28.4	-			PCB-68	2.58	-	J	
PCB-19	2.88	-	J		PCB-69	-	-	C052	52
PCB-20	24.3	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	14.5	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.814			PCB-73	ND	0.587		
PCB-24	1.61	-	J		PCB-74	37.7	-		
PCB-25	11.7	-			PCB-75	-	-	C048	48
PCB-26	28.8	-			PCB-76	-	-	C066	66
PCB-27	2.46	-	J		PCB-77	13.7	-		
PCB-28	46.2	-			PCB-78	ND	0.876		
PCB-29	ND	0.781			PCB-79	3.46	-	J	
PCB-30	ND	1.05			PCB-80	ND	0.577		
PCB-31	41.7	-			PCB-81	5.42	-		
PCB-32	10.6	-			PCB-82	31.5	-		
PCB-33	-	-	C020	20/21	PCB-83	12.6	-	C	112
PCB-34	ND	0.809			PCB-84	119	-	C	92
PCB-35	ND	0.902			PCB-85	48.9	-	C	116
PCB-36	ND	0.858			PCB-86	ND	1.56		
PCB-37	18.3	-			PCB-87	108	-	C	117/125
PCB-38	ND	0.810			PCB-88	32.1	-	C	91
PCB-39	ND	0.815			PCB-89	ND	1.68		
PCB-40	10.0	-			PCB-90	267	-	C	101
PCB-41	51.2	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	19.7	-	C	59	PCB-92	-	-	C084	84
PCB-43	82.4	-	C	49	PCB-93	ND	0.929		
PCB-44	73.0	-			PCB-94	ND	0.908		
PCB-45	6.08	-			PCB-95	203	-		
PCB-46	ND	0.973			PCB-96	1.89	-	J	
PCB-47	19.3	-			PCB-97	73.0	-		
PCB-48	9.87	-	C	75	PCB-98	ND	0.735	C	102
PCB-49	-	-	C043	43	PCB-99	124	-		
PCB-50	ND	0.816			PCB-100	2.01	-	J	

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EPA Method 1668
PCBs

FAL ID: 11719-001-SA
Client ID: LDW-Y1-IN-ENR-CA-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.02 g
% Solids: 99.84

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	47.8	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.550		
PCB-103	3.07	-	J		PCB-153	283	-		
PCB-104	ND	0.587			PCB-154	5.17	-		
PCB-105	119	-			PCB-155	ND	0.480		
PCB-106	271	-	C	118	PCB-156	44.5	-		
PCB-107	21.3	-	C	108	PCB-157	11.8	-		
PCB-108	-	-	C107	107	PCB-158	45.3	-	C	160
PCB-109	ND	1.23			PCB-159	2.62	-	J	
PCB-110	302	-			PCB-160	-	-	C158	158
PCB-111	3.75	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.30			PCB-163	-	-	C138	138/164
PCB-114	7.17	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	2.62	-	J	
PCB-117	-	-	C087	87/125	PCB-167	20.2	-		
PCB-118	-	-	C	106	PCB-168	ND	0.768		
PCB-119	8.99	-			PCB-169	ND	0.767		
PCB-120	ND	1.19			PCB-170	71.4	-		
PCB-121	ND	0.661			PCB-171	19.2	-		
PCB-122	3.74	-	J		PCB-172	12.9	-		
PCB-123	4.37	-			PCB-173	ND	1.10		
PCB-124	14.3	-			PCB-174	56.0	-		
PCB-125	-	-	C087	87/117	PCB-175	2.83	-	J	
PCB-126	2.83	-	J		PCB-176	8.40	-		
PCB-127	ND	1.96			PCB-177	42.3	-		
PCB-128	70.3	-	C	162	PCB-178	13.1	-		
PCB-129	22.7	-			PCB-179	25.5	-		
PCB-130	29.2	-			PCB-180	120	-		
PCB-131	10.4	-	C	133	PCB-181	ND	0.955		
PCB-132	99.9	-	C	161	PCB-182	73.9	-	C	187
PCB-133	-	-	C131	131	PCB-183	37.1	-		
PCB-134	18.3	-	C	143	PCB-184	ND	0.690		
PCB-135	40.2	-			PCB-185	6.61	-		
PCB-136	38.5	-			PCB-186	ND	0.740		
PCB-137	21.0	-			PCB-187	-	-	C182	182
PCB-138	331	-	C	163/164	PCB-188	ND	0.748		
PCB-139	221	-	C	149	PCB-189	3.30	-	J	
PCB-140	ND	0.963			PCB-190	16.7	-		
PCB-141	56.9	-			PCB-191	3.10	-	J	
PCB-142	ND	1.17			PCB-192	ND	0.770		
PCB-143	-	-	C134	134	PCB-193	8.06	-		
PCB-144	11.4	-			PCB-194	36.8	-		
PCB-145	ND	0.532			PCB-195	12.8	-		
PCB-146	42.4	-	C	165	PCB-196	51.2	-	C	203
PCB-147	7.08	-			PCB-197	1.42	-	J	
PCB-148	ND	0.714			PCB-198	2.29	-	J	
PCB-149	-	-	C139	139	PCB-199	49.4	-		
PCB-150	ND	0.524			PCB-200	6.71	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-001-SA
Client ID: LDW-Y1-IN-ENR-CA-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.02 g
% Solids: 99.84

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	5.66	-		
PCB-202	8.66	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.741		
PCB-205	1.74	-	J	
PCB-206	18.3	-		
PCB-207	3.34	-	J	
PCB-208	7.56	-		
PCB-209	5.64	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	94.0	5.00 - 145	
13C-PCB-3	90.5	5.00 - 145	
13C-PCB-4	93.2	5.00 - 145	
13C-PCB-15	99.5	5.00 - 145	
13C-PCB-19	92.7	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	89.4	5.00 - 145	
13C-PCB-77	104	10.0 - 145	
13C-PCB-81	103	10.0 - 145	
13C-PCB-104	96.4	10.0 - 145	
13C-PCB-105	95.4	10.0 - 145	
13C-PCB-114	99.1	10.0 - 145	
13C-PCB-118	103	10.0 - 145	
13C-PCB-123	99.6	10.0 - 145	
13C-PCB-126	106	10.0 - 145	
13C-PCB-155	95.1	10.0 - 145	
13C-PCB-156	99.7	10.0 - 145	
13C-PCB-157	97.1	10.0 - 145	
13C-PCB-167	94.4	10.0 - 145	
13C-PCB-169	101	10.0 - 145	
13C-PCB-188	90.9	10.0 - 145	
13C-PCB-189	98.6	10.0 - 145	
13C-PCB-202	89.2	10.0 - 145	
13C-PCB-205	85.0	10.0 - 145	
13C-PCB-206	78.5	10.0 - 145	
13C-PCB-208	80.4	10.0 - 145	
13C-PCB-209	78.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	101	5.00 - 145	
13C-PCB-111	98.3	10.0 - 145	
13C-PCB-178	97.1	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-002-SA
Client ID: LDW-Y1-IN-ENR-CB-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.01 g
% Solids: 99.57

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018
Total Conc: 8150

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	19.4	-			PCB-51	5.19	-		
PCB-2	4.21	-			PCB-52	273	-	C	69
PCB-3	18.0	-			PCB-53	14.9	-		
PCB-4	15.9	-			PCB-54	ND	0.788		
PCB-5	4.27	-			PCB-55	4.37	-		
PCB-6	20.1	-			PCB-56	65.1	-	C	60
PCB-7	6.03	-			PCB-57	1.91	-	J	
PCB-8	57.8	-			PCB-58	ND	0.812		
PCB-9	5.04	-			PCB-59	-	-	C042	42
PCB-10	2.66	-	J		PCB-60	-	-	C056	56
PCB-11	7.80	-			PCB-61	186	-	C	70
PCB-12	10.2	-			PCB-62	ND	0.790		
PCB-13	5.05	-			PCB-63	5.10	-		
PCB-14	ND	0.475			PCB-64	-	-	C041	41/71/72
PCB-15	39.5	-			PCB-65	ND	0.874		
PCB-16	11.6	-			PCB-66	132	-	C	76
PCB-17	14.1	-			PCB-67	5.10	-		
PCB-18	31.1	-			PCB-68	1.98	-	J	
PCB-19	3.64	-	J		PCB-69	-	-	C052	52
PCB-20	30.0	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	18.4	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.414			PCB-73	ND	0.746		
PCB-24	2.58	-	J		PCB-74	64.3	-		
PCB-25	12.9	-			PCB-75	-	-	C048	48
PCB-26	31.5	-			PCB-76	-	-	C066	66
PCB-27	2.03	-	J		PCB-77	21.0	-		
PCB-28	48.5	-			PCB-78	ND	0.672		
PCB-29	ND	0.397			PCB-79	5.47	-		
PCB-30	ND	0.475			PCB-80	ND	0.733		
PCB-31	53.5	-			PCB-81	9.17	-		
PCB-32	7.84	-			PCB-82	56.2	-		
PCB-33	-	-	C020	20/21	PCB-83	26.0	-	C	112
PCB-34	ND	0.411			PCB-84	237	-	C	92
PCB-35	ND	0.459			PCB-85	83.7	-	C	116
PCB-36	ND	0.437			PCB-86	ND	1.28		
PCB-37	25.0	-			PCB-87	224	-	C	117/125
PCB-38	ND	0.412			PCB-88	59.5	-	C	91
PCB-39	ND	0.415			PCB-89	4.27	-		
PCB-40	11.8	-			PCB-90	554	-	C	101
PCB-41	92.2	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	31.4	-	C	59	PCB-92	-	-	C084	84
PCB-43	136	-	C	49	PCB-93	ND	1.56		
PCB-44	146	-			PCB-94	ND	1.53		
PCB-45	8.73	-			PCB-95	367	-		
PCB-46	4.42	-			PCB-96	ND	1.12		
PCB-47	29.3	-			PCB-97	146	-		
PCB-48	15.4	-	C	75	PCB-98	ND	1.23	C	102
PCB-49	-	-	C043	43	PCB-99	230	-		
PCB-50	ND	1.04			PCB-100	2.62	-	J	

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EPA Method 1668
PCBs

FAL ID: 11719-002-SA
Client ID: LDW-Y1-IN-ENR-CB-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.01 g
% Solids: 99.57

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	88.8	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.809		
PCB-103	4.12	-			PCB-153	434	-		
PCB-104	ND	0.987			PCB-154	6.50	-		
PCB-105	193	-			PCB-155	ND	0.706		
PCB-106	468	-	C	118	PCB-156	58.1	-		
PCB-107	32.4	-	C	108	PCB-157	16.1	-		
PCB-108	-	-	C107	107	PCB-158	67.9	-	C	160
PCB-109	ND	1.00			PCB-159	3.48	-	J	
PCB-110	532	-			PCB-160	-	-	C158	158
PCB-111	9.28	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.07			PCB-163	-	-	C138	138/164
PCB-114	11.2	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	3.42	-	J	
PCB-117	-	-	C087	87/125	PCB-167	28.7	-		
PCB-118	-	-	C	106	PCB-168	ND	0.723		
PCB-119	13.2	-			PCB-169	ND	0.775		
PCB-120	ND	0.972			PCB-170	81.8	-		
PCB-121	ND	1.11			PCB-171	25.8	-		
PCB-122	6.81	-			PCB-172	14.6	-		
PCB-123	7.64	-			PCB-173	ND	1.04		
PCB-124	22.4	-			PCB-174	71.5	-		
PCB-125	-	-	C087	87/117	PCB-175	5.39	-		
PCB-126	4.42	-			PCB-176	10.2	-		
PCB-127	ND	0.745			PCB-177	47.4	-		
PCB-128	101	-	C	162	PCB-178	16.2	-		
PCB-129	33.6	-			PCB-179	30.7	-		
PCB-130	51.2	-			PCB-180	129	-		
PCB-131	16.2	-	C	133	PCB-181	ND	0.899		
PCB-132	147	-	C	161	PCB-182	81.3	-	C	187
PCB-133	-	-	C131	131	PCB-183	43.1	-		
PCB-134	33.1	-	C	143	PCB-184	ND	0.649		
PCB-135	73.0	-			PCB-185	8.13	-		
PCB-136	64.9	-			PCB-186	ND	0.696		
PCB-137	29.9	-			PCB-187	-	-	C182	182
PCB-138	488	-	C	163/164	PCB-188	ND	0.728		
PCB-139	370	-	C	149	PCB-189	3.62	-	J	
PCB-140	3.20	-	J		PCB-190	19.5	-		
PCB-141	87.5	-			PCB-191	4.72	-		
PCB-142	ND	1.10			PCB-192	ND	0.724		
PCB-143	-	-	C134	134	PCB-193	8.63	-		
PCB-144	20.7	-			PCB-194	32.6	-		
PCB-145	ND	0.783			PCB-195	12.2	-		
PCB-146	62.9	-	C	165	PCB-196	39.5	-	C	203
PCB-147	13.6	-			PCB-197	ND	1.13		
PCB-148	ND	1.05			PCB-198	ND	1.67		
PCB-149	-	-	C139	139	PCB-199	35.2	-		
PCB-150	ND	0.770			PCB-200	4.21	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-002-SA
Client ID: LDW-Y1-IN-ENR-CB-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.01 g
% Solids: 99.57

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	5.66	-		
PCB-202	8.49	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.24		
PCB-205	1.54	-	J	
PCB-206	14.4	-		
PCB-207	2.08	-	J	
PCB-208	2.95	-	J	
PCB-209	8.57	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.6	5.00 - 145	
13C-PCB-3	83.9	5.00 - 145	
13C-PCB-4	85.5	5.00 - 145	
13C-PCB-15	97.1	5.00 - 145	
13C-PCB-19	90.4	5.00 - 145	
13C-PCB-37	98.7	5.00 - 145	
13C-PCB-54	80.8	5.00 - 145	
13C-PCB-77	100	10.0 - 145	
13C-PCB-81	103	10.0 - 145	
13C-PCB-104	101	10.0 - 145	
13C-PCB-105	96.5	10.0 - 145	
13C-PCB-114	101	10.0 - 145	
13C-PCB-118	98.5	10.0 - 145	
13C-PCB-123	100	10.0 - 145	
13C-PCB-126	101	10.0 - 145	
13C-PCB-155	91.3	10.0 - 145	
13C-PCB-156	94.7	10.0 - 145	
13C-PCB-157	91.6	10.0 - 145	
13C-PCB-167	94.2	10.0 - 145	
13C-PCB-169	97.8	10.0 - 145	
13C-PCB-188	85.9	10.0 - 145	
13C-PCB-189	94.6	10.0 - 145	
13C-PCB-202	83.6	10.0 - 145	
13C-PCB-205	83.5	10.0 - 145	
13C-PCB-206	73.8	10.0 - 145	
13C-PCB-208	81.6	10.0 - 145	
13C-PCB-209	72.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	99.0	5.00 - 145	
13C-PCB-111	100	10.0 - 145	
13C-PCB-178	98.0	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-003-SA
Client ID: LDW-Y1-IN-ENR-CC-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.01 g
% Solids: 99.57

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018
Total Conc: 12800

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	18.2	-			PCB-51	6.40	-		
PCB-2	3.89	-	J		PCB-52	367	-	C	69
PCB-3	15.7	-			PCB-53	24.3	-		
PCB-4	13.4	-			PCB-54	ND	0.750		
PCB-5	4.23	-			PCB-55	7.22	-		
PCB-6	25.6	-			PCB-56	102	-	C	60
PCB-7	6.56	-			PCB-57	ND	0.803		
PCB-8	62.6	-			PCB-58	1.79	-	J	
PCB-9	3.42	-	J		PCB-59	-	-	C042	42
PCB-10	2.39	-	J		PCB-60	-	-	C056	56
PCB-11	9.18	-			PCB-61	280	-	C	70
PCB-12	4.90	-			PCB-62	ND	0.752		
PCB-13	10.2	-			PCB-63	9.41	-		
PCB-14	ND	0.770			PCB-64	-	-	C041	41/71/72
PCB-15	40.8	-			PCB-65	ND	0.832		
PCB-16	21.0	-			PCB-66	224	-	C	76
PCB-17	34.2	-			PCB-67	11.2	-		
PCB-18	73.6	-			PCB-68	ND	0.708		
PCB-19	6.07	-			PCB-69	-	-	C052	52
PCB-20	64.7	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	39.7	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.668			PCB-73	ND	0.710		
PCB-24	4.23	-			PCB-74	103	-		
PCB-25	30.1	-			PCB-75	-	-	C048	48
PCB-26	71.2	-			PCB-76	-	-	C066	66
PCB-27	6.27	-			PCB-77	38.3	-		
PCB-28	119	-			PCB-78	ND	0.732		
PCB-29	ND	0.640			PCB-79	6.97	-		
PCB-30	ND	0.748			PCB-80	ND	0.698		
PCB-31	113	-			PCB-81	11.7	-		
PCB-32	22.4	-			PCB-82	86.8	-		
PCB-33	-	-	C020	20/21	PCB-83	31.4	-	C	112
PCB-34	ND	0.663			PCB-84	287	-	C	92
PCB-35	ND	0.739			PCB-85	115	-	C	116
PCB-36	ND	0.704			PCB-86	ND	1.03		
PCB-37	40.3	-			PCB-87	269	-	C	117/125
PCB-38	ND	0.664			PCB-88	68.1	-	C	91
PCB-39	ND	0.668			PCB-89	6.98	-		
PCB-40	6.38	-			PCB-90	649	-	C	101
PCB-41	126	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	58.2	-	C	59	PCB-92	-	-	C084	84
PCB-43	242	-	C	49	PCB-93	ND	1.18		
PCB-44	207	-			PCB-94	2.72	-	J	
PCB-45	17.7	-			PCB-95	414	-		
PCB-46	7.83	-			PCB-96	ND	0.849		
PCB-47	57.6	-			PCB-97	174	-		
PCB-48	34.9	-	C	75	PCB-98	ND	0.935	C	102
PCB-49	-	-	C043	43	PCB-99	289	-		
PCB-50	ND	0.986			PCB-100	3.67	-	J	

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EPA Method 1668
PCBs

FAL ID: 11719-003-SA
Client ID: LDW-Y1-IN-ENR-CC-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.01 g
% Solids: 99.57

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	149	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.635		
PCB-103	7.60	-			PCB-153	715	-		
PCB-104	ND	0.747			PCB-154	14.1	-		
PCB-105	324	-			PCB-155	ND	0.554		
PCB-106	681	-	C	118	PCB-156	127	-		
PCB-107	52.3	-	C	108	PCB-157	31.4	-		
PCB-108	-	-	C107	107	PCB-158	117	-	C	160
PCB-109	ND	0.807			PCB-159	6.60	-		
PCB-110	727	-			PCB-160	-	-	C158	158
PCB-111	8.15	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.858			PCB-163	-	-	C138	138/164
PCB-114	16.9	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	5.35	-		
PCB-117	-	-	C087	87/125	PCB-167	49.4	-		
PCB-118	-	-	C	106	PCB-168	ND	0.979		
PCB-119	18.8	-			PCB-169	ND	0.973		
PCB-120	ND	0.783			PCB-170	213	-		
PCB-121	ND	0.841			PCB-171	53.8	-		
PCB-122	8.60	-			PCB-172	36.0	-		
PCB-123	10.1	-			PCB-173	5.08	-		
PCB-124	34.8	-			PCB-174	163	-		
PCB-125	-	-	C087	87/117	PCB-175	7.43	-		
PCB-126	9.28	-			PCB-176	21.1	-		
PCB-127	ND	0.780			PCB-177	105	-		
PCB-128	198	-	C	162	PCB-178	33.8	-		
PCB-129	58.5	-			PCB-179	67.1	-		
PCB-130	72.5	-			PCB-180	313	-		
PCB-131	26.3	-	C	133	PCB-181	ND	1.02		
PCB-132	265	-	C	161	PCB-182	190	-	C	187
PCB-133	-	-	C131	131	PCB-183	93.6	-		
PCB-134	46.5	-	C	143	PCB-184	ND	0.735		
PCB-135	104	-			PCB-185	18.1	-		
PCB-136	96.7	-			PCB-186	ND	0.789		
PCB-137	54.2	-			PCB-187	-	-	C182	182
PCB-138	862	-	C	163/164	PCB-188	ND	0.831		
PCB-139	595	-	C	149	PCB-189	8.61	-		
PCB-140	6.20	-			PCB-190	43.0	-		
PCB-141	149	-			PCB-191	10.1	-		
PCB-142	ND	1.49			PCB-192	ND	0.821		
PCB-143	-	-	C134	134	PCB-193	19.1	-		
PCB-144	29.5	-			PCB-194	81.1	-		
PCB-145	ND	0.614			PCB-195	29.3	-		
PCB-146	111	-	C	165	PCB-196	98.1	-	C	203
PCB-147	19.2	-			PCB-197	3.65	-	J	
PCB-148	ND	0.824			PCB-198	3.55	-	J	
PCB-149	-	-	C139	139	PCB-199	89.2	-		
PCB-150	ND	0.605			PCB-200	10.0	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-003-SA
Client ID: LDW-Y1-IN-ENR-CC-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.01 g
% Solids: 99.57

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	11.7	-		
PCB-202	18.3	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.700		
PCB-205	4.29	-		
PCB-206	34.1	-		
PCB-207	5.04	-		
PCB-208	8.92	-		
PCB-209	13.0	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.0	5.00 - 145	
13C-PCB-3	87.9	5.00 - 145	
13C-PCB-4	86.6	5.00 - 145	
13C-PCB-15	101	5.00 - 145	
13C-PCB-19	91.7	5.00 - 145	
13C-PCB-37	89.7	5.00 - 145	
13C-PCB-54	76.2	5.00 - 145	
13C-PCB-77	104	10.0 - 145	
13C-PCB-81	105	10.0 - 145	
13C-PCB-104	108	10.0 - 145	
13C-PCB-105	97.9	10.0 - 145	
13C-PCB-114	103	10.0 - 145	
13C-PCB-118	102	10.0 - 145	
13C-PCB-123	100	10.0 - 145	
13C-PCB-126	105	10.0 - 145	
13C-PCB-155	91.8	10.0 - 145	
13C-PCB-156	96.0	10.0 - 145	
13C-PCB-157	96.8	10.0 - 145	
13C-PCB-167	93.2	10.0 - 145	
13C-PCB-169	102	10.0 - 145	
13C-PCB-188	88.8	10.0 - 145	
13C-PCB-189	98.3	10.0 - 145	
13C-PCB-202	89.7	10.0 - 145	
13C-PCB-205	88.3	10.0 - 145	
13C-PCB-206	82.1	10.0 - 145	
13C-PCB-208	86.5	10.0 - 145	
13C-PCB-209	79.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	93.7	5.00 - 145	
13C-PCB-111	95.3	10.0 - 145	
13C-PCB-178	91.9	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-004-SA
Client ID: LDW-Y1-IN-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.04 g
% Solids: 100.00

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018
Total Conc: 4000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	13.6	-			PCB-51	2.59	-	J	
PCB-2	1.81	-	J		PCB-52	122	-	C	69
PCB-3	5.07	-			PCB-53	8.49	-		
PCB-4	12.2	-			PCB-54	ND	0.476		
PCB-5	2.80	-	J		PCB-55	2.73	-	J	
PCB-6	12.3	-			PCB-56	30.4	-	C	60
PCB-7	2.09	-	J		PCB-57	1.33	-	J	
PCB-8	25.7	-			PCB-58	ND	0.491		
PCB-9	3.81	-	J		PCB-59	-	-	C042	42
PCB-10	1.27	-	J		PCB-60	-	-	C056	56
PCB-11	7.56	-			PCB-61	79.8	-	C	70
PCB-12	2.26	-	J		PCB-62	ND	0.477		
PCB-13	3.40	-	J		PCB-63	2.39	-	J	
PCB-14	ND	0.470			PCB-64	-	-	C041	41/71/72
PCB-15	14.8	-			PCB-65	ND	0.528		
PCB-16	6.15	-			PCB-66	65.6	-	C	76
PCB-17	14.0	-			PCB-67	2.88	-	J	
PCB-18	33.1	-			PCB-68	1.60	-	J	
PCB-19	4.23	-			PCB-69	-	-	C052	52
PCB-20	19.4	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	12.7	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.550			PCB-73	ND	0.451		
PCB-24	2.37	-	J		PCB-74	28.0	-		
PCB-25	8.04	-			PCB-75	-	-	C048	48
PCB-26	21.0	-			PCB-76	-	-	C066	66
PCB-27	2.47	-	J		PCB-77	7.65	-		
PCB-28	41.2	-			PCB-78	ND	0.704		
PCB-29	ND	0.528			PCB-79	2.90	-	J	
PCB-30	ND	0.523			PCB-80	ND	0.443		
PCB-31	37.0	-			PCB-81	4.03	-		
PCB-32	11.3	-			PCB-82	25.4	-		
PCB-33	-	-	C020	20/21	PCB-83	10.2	-	C	112
PCB-34	ND	0.546			PCB-84	93.0	-	C	92
PCB-35	ND	0.609			PCB-85	36.6	-	C	116
PCB-36	ND	0.580			PCB-86	ND	0.936		
PCB-37	11.1	-			PCB-87	81.9	-	C	117/125
PCB-38	ND	0.547			PCB-88	28.6	-	C	91
PCB-39	ND	0.551			PCB-89	2.21	-	J	
PCB-40	9.09	-			PCB-90	215	-	C	101
PCB-41	47.0	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	17.5	-	C	59	PCB-92	-	-	C084	84
PCB-43	73.9	-	C	49	PCB-93	ND	0.927		
PCB-44	68.8	-			PCB-94	ND	0.906		
PCB-45	5.75	-			PCB-95	165	-		
PCB-46	2.79	-	J		PCB-96	1.60	-	J	
PCB-47	19.9	-			PCB-97	56.2	-		
PCB-48	9.63	-	C	75	PCB-98	ND	0.734	C	102
PCB-49	-	-	C043	43	PCB-99	105	-		
PCB-50	ND	0.626			PCB-100	ND	0.763		

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EPA Method 1668
PCBs

FAL ID: 11719-004-SA
Client ID: LDW-Y1-IN-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.04 g
% Solids: 100.00

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	41.6	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.499		
PCB-103	1.92	-	J		PCB-153	228	-		
PCB-104	ND	0.586			PCB-154	5.16	-		
PCB-105	72.9	-			PCB-155	ND	0.435		
PCB-106	184	-	C	118	PCB-156	27.3	-		
PCB-107	14.0	-	C	108	PCB-157	7.20	-		
PCB-108	-	-	C107	107	PCB-158	32.0	-	C	160
PCB-109	ND	0.733			PCB-159	2.40	-	J	
PCB-110	224	-			PCB-160	-	-	C158	158
PCB-111	4.49	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.779			PCB-163	-	-	C138	138/164
PCB-114	4.54	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	1.84	-	J	
PCB-117	-	-	C087	87/125	PCB-167	11.8	-		
PCB-118	-	-	C	106	PCB-168	ND	0.803		
PCB-119	7.09	-			PCB-169	ND	0.863		
PCB-120	ND	0.711			PCB-170	52.1	-		
PCB-121	ND	0.660			PCB-171	15.5	-		
PCB-122	2.77	-	J		PCB-172	10.7	-		
PCB-123	2.86	-	J		PCB-173	2.33	-	J	
PCB-124	9.35	-			PCB-174	47.6	-		
PCB-125	-	-	C087	87/117	PCB-175	2.12	-	J	
PCB-126	1.80	-	J		PCB-176	7.38	-		
PCB-127	ND	0.802			PCB-177	32.8	-		
PCB-128	49.1	-	C	162	PCB-178	12.3	-		
PCB-129	14.2	-			PCB-179	22.0	-		
PCB-130	23.3	-			PCB-180	90.2	-		
PCB-131	7.99	-	C	133	PCB-181	ND	0.725		
PCB-132	69.8	-	C	161	PCB-182	62.1	-	C	187
PCB-133	-	-	C131	131	PCB-183	29.2	-		
PCB-134	14.2	-	C	143	PCB-184	ND	0.523		
PCB-135	36.6	-			PCB-185	5.33	-		
PCB-136	29.5	-			PCB-186	ND	0.562		
PCB-137	14.0	-			PCB-187	-	-	C182	182
PCB-138	242	-	C	163/164	PCB-188	ND	0.580		
PCB-139	177	-	C	149	PCB-189	2.57	-	J	
PCB-140	2.94	-	J		PCB-190	12.0	-		
PCB-141	42.7	-			PCB-191	3.02	-	J	
PCB-142	ND	1.22			PCB-192	ND	0.584		
PCB-143	-	-	C134	134	PCB-193	6.40	-		
PCB-144	8.20	-			PCB-194	28.8	-		
PCB-145	ND	0.483			PCB-195	11.1	-		
PCB-146	36.3	-	C	165	PCB-196	33.7	-	C	203
PCB-147	6.05	-			PCB-197	ND	0.604		
PCB-148	ND	0.648			PCB-198	ND	0.889		
PCB-149	-	-	C139	139	PCB-199	33.4	-		
PCB-150	ND	0.475			PCB-200	3.70	-	J	

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FAL ID: 11719-004-SA
Client ID: LDW-Y1-IN-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.04 g
% Solids: 100.00

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	5.92	-		
PCB-202	7.82	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.662		
PCB-205	1.51	-	J	
PCB-206	12.6	-		
PCB-207	1.73	-	J	
PCB-208	3.52	-	J	
PCB-209	8.02	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	88.7	5.00 - 145	
13C-PCB-3	80.4	5.00 - 145	
13C-PCB-4	87.1	5.00 - 145	
13C-PCB-15	86.0	5.00 - 145	
13C-PCB-19	88.8	5.00 - 145	
13C-PCB-37	99.7	5.00 - 145	
13C-PCB-54	88.5	5.00 - 145	
13C-PCB-77	90.8	10.0 - 145	
13C-PCB-81	94.0	10.0 - 145	
13C-PCB-104	100	10.0 - 145	
13C-PCB-105	100	10.0 - 145	
13C-PCB-114	103	10.0 - 145	
13C-PCB-118	105	10.0 - 145	
13C-PCB-123	97.7	10.0 - 145	
13C-PCB-126	94.9	10.0 - 145	
13C-PCB-155	89.9	10.0 - 145	
13C-PCB-156	95.0	10.0 - 145	
13C-PCB-157	92.5	10.0 - 145	
13C-PCB-167	92.7	10.0 - 145	
13C-PCB-169	91.2	10.0 - 145	
13C-PCB-188	91.8	10.0 - 145	
13C-PCB-189	93.3	10.0 - 145	
13C-PCB-202	86.6	10.0 - 145	
13C-PCB-205	85.8	10.0 - 145	
13C-PCB-206	77.2	10.0 - 145	
13C-PCB-208	82.3	10.0 - 145	
13C-PCB-209	74.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	105	5.00 - 145	
13C-PCB-111	94.7	10.0 - 145	
13C-PCB-178	93.1	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-005-SA
Client ID: LDW-Y1-IN-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 4.99 g
% Solids: 99.37

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018
Total Conc: 7520

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	21.6	-			PCB-51	4.36	-		
PCB-2	2.50	-	J		PCB-52	261	-	C	69
PCB-3	7.15	-			PCB-53	15.7	-		
PCB-4	13.0	-			PCB-54	ND	0.661		
PCB-5	5.96	-			PCB-55	6.91	-		
PCB-6	18.2	-			PCB-56	68.0	-	C	60
PCB-7	5.72	-			PCB-57	3.84	-	J	
PCB-8	43.1	-			PCB-58	1.74	-	J	
PCB-9	4.10	-			PCB-59	-	-	C042	42
PCB-10	2.87	-	J		PCB-60	-	-	C056	56
PCB-11	7.17	-			PCB-61	146	-	C	70
PCB-12	3.18	-	J		PCB-62	ND	0.662		
PCB-13	2.16	-	J		PCB-63	6.03	-		
PCB-14	ND	0.745			PCB-64	-	-	C041	41/71/72
PCB-15	18.7	-			PCB-65	ND	0.734		
PCB-16	13.8	-			PCB-66	130	-	C	76
PCB-17	25.2	-			PCB-67	8.57	-		
PCB-18	56.5	-			PCB-68	3.72	-	J	
PCB-19	6.48	-			PCB-69	-	-	C052	52
PCB-20	46.0	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	28.6	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.624			PCB-73	ND	0.626		
PCB-24	1.67	-	J		PCB-74	56.5	-		
PCB-25	21.5	-			PCB-75	-	-	C048	48
PCB-26	65.1	-			PCB-76	-	-	C066	66
PCB-27	4.47	-			PCB-77	13.6	-		
PCB-28	82.1	-			PCB-78	ND	1.77		
PCB-29	ND	0.599			PCB-79	5.31	-		
PCB-30	ND	0.549			PCB-80	ND	0.615		
PCB-31	83.3	-			PCB-81	8.28	-		
PCB-32	16.8	-			PCB-82	53.0	-		
PCB-33	-	-	C020	20/21	PCB-83	22.7	-	C	112
PCB-34	ND	0.620			PCB-84	200	-	C	92
PCB-35	ND	0.691			PCB-85	73.8	-	C	116
PCB-36	ND	0.658			PCB-86	ND	1.61		
PCB-37	18.9	-			PCB-87	170	-	C	117/125
PCB-38	ND	0.621			PCB-88	58.7	-	C	91
PCB-39	ND	0.625			PCB-89	5.88	-		
PCB-40	16.8	-			PCB-90	428	-	C	101
PCB-41	90.7	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	36.1	-	C	59	PCB-92	-	-	C084	84
PCB-43	164	-	C	49	PCB-93	ND	1.15		
PCB-44	143	-			PCB-94	ND	1.13		
PCB-45	13.0	-			PCB-95	348	-		
PCB-46	5.49	-			PCB-96	3.41	-	J	
PCB-47	37.5	-			PCB-97	112	-		
PCB-48	16.7	-	C	75	PCB-98	ND	0.914	C	102
PCB-49	-	-	C043	43	PCB-99	200	-		
PCB-50	ND	0.869			PCB-100	2.44	-	J	

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PCBs

FAL ID: 11719-005-SA
Client ID: LDW-Y1-IN-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 4.99 g
% Solids: 99.37

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	76.6	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.617		
PCB-103	5.49	-			PCB-153	390	-		
PCB-104	ND	0.730			PCB-154	6.59	-		
PCB-105	138	-			PCB-155	ND	0.539		
PCB-106	355	-	C	118	PCB-156	49.3	-		
PCB-107	27.8	-	C	108	PCB-157	13.3	-		
PCB-108	-	-	C107	107	PCB-158	58.7	-	C	160
PCB-109	ND	1.26			PCB-159	3.38	-	J	
PCB-110	458	-			PCB-160	-	-	C158	158
PCB-111	6.73	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.34			PCB-163	-	-	C138	138/164
PCB-114	8.73	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	3.50	-	J	
PCB-117	-	-	C087	87/125	PCB-167	21.1	-		
PCB-118	-	-	C	106	PCB-168	ND	0.999		
PCB-119	14.9	-			PCB-169	ND	1.05		
PCB-120	ND	1.23			PCB-170	90.4	-		
PCB-121	ND	0.822			PCB-171	23.6	-		
PCB-122	5.70	-			PCB-172	16.0	-		
PCB-123	5.10	-			PCB-173	ND	1.07		
PCB-124	16.8	-			PCB-174	78.0	-		
PCB-125	-	-	C087	87/117	PCB-175	3.17	-	J	
PCB-126	3.32	-	J		PCB-176	10.8	-		
PCB-127	ND	0.919			PCB-177	53.6	-		
PCB-128	91.4	-	C	162	PCB-178	18.2	-		
PCB-129	29.5	-			PCB-179	31.6	-		
PCB-130	42.9	-			PCB-180	141	-		
PCB-131	14.7	-	C	133	PCB-181	ND	0.930		
PCB-132	140	-	C	161	PCB-182	95.5	-	C	187
PCB-133	-	-	C131	131	PCB-183	47.0	-		
PCB-134	26.2	-	C	143	PCB-184	ND	0.671		
PCB-135	65.0	-			PCB-185	7.91	-		
PCB-136	57.9	-			PCB-186	ND	0.720		
PCB-137	25.0	-			PCB-187	-	-	C182	182
PCB-138	437	-	C	163/164	PCB-188	ND	0.757		
PCB-139	328	-	C	149	PCB-189	4.45	-		
PCB-140	5.58	-			PCB-190	19.6	-		
PCB-141	77.2	-			PCB-191	5.26	-		
PCB-142	ND	1.52			PCB-192	ND	0.749		
PCB-143	-	-	C134	134	PCB-193	9.36	-		
PCB-144	17.2	-			PCB-194	40.8	-		
PCB-145	ND	0.597			PCB-195	14.5	-		
PCB-146	58.3	-	C	165	PCB-196	43.4	-	C	203
PCB-147	11.2	-			PCB-197	1.88	-	J	
PCB-148	ND	0.801			PCB-198	ND	1.09		
PCB-149	-	-	C139	139	PCB-199	41.0	-		
PCB-150	ND	0.588			PCB-200	5.66	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-005-SA
Client ID: LDW-Y1-IN-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 4.99 g
% Solids: 99.37

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	5.08	-		
PCB-202	8.97	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.811		
PCB-205	2.02	-	J	
PCB-206	16.3	-		
PCB-207	2.21	-	J	
PCB-208	4.37	-		
PCB-209	12.0	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	82.9	5.00 - 145	
13C-PCB-3	75.1	5.00 - 145	
13C-PCB-4	86.2	5.00 - 145	
13C-PCB-15	78.1	5.00 - 145	
13C-PCB-19	87.7	5.00 - 145	
13C-PCB-37	90.2	5.00 - 145	
13C-PCB-54	92.0	5.00 - 145	
13C-PCB-77	87.7	10.0 - 145	
13C-PCB-81	91.8	10.0 - 145	
13C-PCB-104	96.0	10.0 - 145	
13C-PCB-105	94.6	10.0 - 145	
13C-PCB-114	100	10.0 - 145	
13C-PCB-118	101	10.0 - 145	
13C-PCB-123	94.9	10.0 - 145	
13C-PCB-126	90.4	10.0 - 145	
13C-PCB-155	92.4	10.0 - 145	
13C-PCB-156	93.4	10.0 - 145	
13C-PCB-157	94.1	10.0 - 145	
13C-PCB-167	92.3	10.0 - 145	
13C-PCB-169	94.3	10.0 - 145	
13C-PCB-188	89.2	10.0 - 145	
13C-PCB-189	93.6	10.0 - 145	
13C-PCB-202	86.5	10.0 - 145	
13C-PCB-205	84.8	10.0 - 145	
13C-PCB-206	77.4	10.0 - 145	
13C-PCB-208	81.7	10.0 - 145	
13C-PCB-209	75.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	103	5.00 - 145	
13C-PCB-111	95.4	10.0 - 145	
13C-PCB-178	95.1	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-006-SA
Client ID: LDW-Y1-IN-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 100.00

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018
Total Conc: 5400

Compound	Conc	DL	Qual	Coeluters
PCB-1	7.97	-		
PCB-2	1.95	-	J	
PCB-3	6.09	-		
PCB-4	10.0	-		
PCB-5	2.56	-	J	
PCB-6	16.9	-		
PCB-7	3.37	-	J	
PCB-8	30.6	-		
PCB-9	2.60	-	J	
PCB-10	1.95	-	J	
PCB-11	7.80	-		
PCB-12	4.61	-		
PCB-13	3.83	-	J	
PCB-14	ND	0.610		
PCB-15	17.6	-		
PCB-16	12.6	-		
PCB-17	17.6	-		
PCB-18	39.7	-		
PCB-19	4.72	-		
PCB-20	23.3	-	C	21/33
PCB-21	-	-	C020	20/33
PCB-22	14.7	-		
PCB-23	ND	0.716		
PCB-24	2.26	-	J	
PCB-25	15.9	-		
PCB-26	52.5	-		
PCB-27	2.98	-	J	
PCB-28	47.7	-		
PCB-29	ND	0.687		
PCB-30	ND	0.837		
PCB-31	47.5	-		
PCB-32	10.8	-		
PCB-33	-	-	C020	20/21
PCB-34	ND	0.712		
PCB-35	ND	0.793		
PCB-36	ND	0.755		
PCB-37	13.4	-		
PCB-38	ND	0.713		
PCB-39	ND	0.717		
PCB-40	9.02	-		
PCB-41	61.5	-	C	64/71/72
PCB-42	28.9	-	C	59
PCB-43	115	-	C	49
PCB-44	94.1	-		
PCB-45	6.57	-		
PCB-46	2.60	-	J	
PCB-47	25.4	-		
PCB-48	11.9	-	C	75
PCB-49	-	-	C043	43
PCB-50	ND	0.972		
PCB-51	3.79	-	J	
PCB-52	193	-	C	69
PCB-53	9.12	-		
PCB-54	ND	0.740		
PCB-55	3.77	-	J	
PCB-56	39.2	-	C	60
PCB-57	2.43	-	J	
PCB-58	ND	0.762		
PCB-59	-	-	C042	42
PCB-60	-	-	C056	56
PCB-61	111	-	C	70
PCB-62	ND	0.741		
PCB-63	3.79	-	J	
PCB-64	-	-	C041	41/71/72
PCB-65	ND	0.821		
PCB-66	80.3	-	C	76
PCB-67	5.84	-		
PCB-68	2.33	-	J	
PCB-69	-	-	C052	52
PCB-70	-	-	C061	61
PCB-71	-	-	C041	41/64/72
PCB-72	-	-	C041	41/64/71
PCB-73	ND	0.700		
PCB-74	33.8	-		
PCB-75	-	-	C048	48
PCB-76	-	-	C066	66
PCB-77	9.80	-		
PCB-78	ND	0.953		
PCB-79	3.74	-	J	
PCB-80	ND	0.688		
PCB-81	6.48	-		
PCB-82	34.5	-		
PCB-83	13.9	-	C	112
PCB-84	130	-	C	92
PCB-85	54.1	-	C	116
PCB-86	ND	1.61		
PCB-87	121	-	C	117/125
PCB-88	31.8	-	C	91
PCB-89	2.56	-	J	
PCB-90	295	-	C	101
PCB-91	-	-	C088	88
PCB-92	-	-	C084	84
PCB-93	ND	1.10		
PCB-94	ND	1.08		
PCB-95	193	-		
PCB-96	ND	0.791		
PCB-97	77.8	-		
PCB-98	ND	0.871	C	102
PCB-99	142	-		
PCB-100	ND	0.906		

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EPA Method 1668
PCBs

FAL ID: 11719-006-SA
Client ID: LDW-Y1-IN-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 100.00

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	54.4	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.580		
PCB-103	3.26	-	J		PCB-153	293	-		
PCB-104	ND	0.696			PCB-154	5.30	-		
PCB-105	112	-			PCB-155	ND	0.506		
PCB-106	271	-	C	118	PCB-156	40.8	-		
PCB-107	19.4	-	C	108	PCB-157	10.7	-		
PCB-108	-	-	C107	107	PCB-158	45.8	-	C	160
PCB-109	ND	1.26			PCB-159	2.81	-	J	
PCB-110	324	-			PCB-160	-	-	C158	158
PCB-111	4.41	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.34			PCB-163	-	-	C138	138/164
PCB-114	5.64	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	1.80	-	J	
PCB-117	-	-	C087	87/125	PCB-167	17.0	-		
PCB-118	-	-	C	106	PCB-168	2.25	-	J	
PCB-119	9.40	-			PCB-169	ND	0.819		
PCB-120	ND	1.22			PCB-170	72.2	-		
PCB-121	ND	0.783			PCB-171	18.7	-		
PCB-122	3.81	-	J		PCB-172	11.4	-		
PCB-123	4.19	-			PCB-173	2.97	-	J	
PCB-124	13.5	-			PCB-174	62.2	-		
PCB-125	-	-	C087	87/117	PCB-175	2.94	-	J	
PCB-126	2.60	-	J		PCB-176	7.49	-		
PCB-127	ND	0.858			PCB-177	40.0	-		
PCB-128	73.2	-	C	162	PCB-178	13.3	-		
PCB-129	21.1	-			PCB-179	24.2	-		
PCB-130	34.8	-			PCB-180	111	-		
PCB-131	11.7	-	C	133	PCB-181	ND	0.727		
PCB-132	96.8	-	C	161	PCB-182	74.0	-	C	187
PCB-133	-	-	C131	131	PCB-183	36.4	-		
PCB-134	19.2	-	C	143	PCB-184	ND	0.525		
PCB-135	44.7	-			PCB-185	6.91	-		
PCB-136	37.0	-			PCB-186	ND	0.563		
PCB-137	19.2	-			PCB-187	-	-	C182	182
PCB-138	357	-	C	163/164	PCB-188	ND	0.582		
PCB-139	233	-	C	149	PCB-189	3.58	-	J	
PCB-140	2.14	-	J		PCB-190	15.7	-		
PCB-141	56.5	-			PCB-191	3.59	-	J	
PCB-142	ND	1.10			PCB-192	ND	0.586		
PCB-143	-	-	C134	134	PCB-193	7.93	-		
PCB-144	11.7	-			PCB-194	39.3	-		
PCB-145	ND	0.561			PCB-195	13.5	-		
PCB-146	44.4	-	C	165	PCB-196	40.9	-	C	203
PCB-147	9.10	-			PCB-197	1.73	-	J	
PCB-148	ND	0.753			PCB-198	2.39	-	J	
PCB-149	-	-	C139	139	PCB-199	40.1	-		
PCB-150	ND	0.552			PCB-200	5.01	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-006-SA
Client ID: LDW-Y1-IN-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4590

Date Extracted: 07-26-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 100.00

ICal: DAILY209FAL4-7-30-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-30-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	5.39	-		
PCB-202	6.35	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.715		
PCB-205	1.99	-	J	
PCB-206	16.6	-		
PCB-207	2.76	-	J	
PCB-208	4.11	-		
PCB-209	9.17	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	87.3	5.00 - 145	
13C-PCB-3	78.5	5.00 - 145	
13C-PCB-4	88.8	5.00 - 145	
13C-PCB-15	86.7	5.00 - 145	
13C-PCB-19	88.7	5.00 - 145	
13C-PCB-37	91.1	5.00 - 145	
13C-PCB-54	83.4	5.00 - 145	
13C-PCB-77	90.3	10.0 - 145	
13C-PCB-81	92.7	10.0 - 145	
13C-PCB-104	105	10.0 - 145	
13C-PCB-105	97.5	10.0 - 145	
13C-PCB-114	98.8	10.0 - 145	
13C-PCB-118	97.1	10.0 - 145	
13C-PCB-123	96.9	10.0 - 145	
13C-PCB-126	90.6	10.0 - 145	
13C-PCB-155	92.7	10.0 - 145	
13C-PCB-156	90.4	10.0 - 145	
13C-PCB-157	89.9	10.0 - 145	
13C-PCB-167	89.8	10.0 - 145	
13C-PCB-169	88.9	10.0 - 145	
13C-PCB-188	87.0	10.0 - 145	
13C-PCB-189	92.6	10.0 - 145	
13C-PCB-202	83.8	10.0 - 145	
13C-PCB-205	85.4	10.0 - 145	
13C-PCB-206	79.5	10.0 - 145	
13C-PCB-208	81.0	10.0 - 145	
13C-PCB-209	75.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	103	5.00 - 145	
13C-PCB-111	101	10.0 - 145	
13C-PCB-178	96.3	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-007-SA
Client ID: LDW-Y1-SC-ENR-CA-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.03 g
% Solids: 99.81

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018
Total Conc: 18400

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	6.40	-			PCB-51	18.3	-		
PCB-2	2.66	-	J		PCB-52	460	-	C	69
PCB-3	5.90	-			PCB-53	44.4	-		
PCB-4	17.1	-			PCB-54	ND	0.869		
PCB-5	2.46	-	J		PCB-55	8.28	-		
PCB-6	26.1	-			PCB-56	234	-	C	60
PCB-7	5.85	-			PCB-57	ND	1.02		
PCB-8	107	-			PCB-58	8.48	-		
PCB-9	4.55	-			PCB-59	-	-	C042	42
PCB-10	1.70	-	J		PCB-60	-	-	C056	56
PCB-11	29.3	-			PCB-61	544	-	C	70
PCB-12	7.67	-			PCB-62	ND	1.02		
PCB-13	5.98	-			PCB-63	15.2	-		
PCB-14	ND	2.85			PCB-64	-	-	C041	41/71/72
PCB-15	73.4	-			PCB-65	ND	0.971		
PCB-16	32.3	-			PCB-66	412	-	C	76
PCB-17	66.9	-			PCB-67	6.15	-		
PCB-18	135	-			PCB-68	ND	0.954		
PCB-19	10.4	-			PCB-69	-	-	C052	52
PCB-20	145	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	89.9	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.756			PCB-73	ND	1.13		
PCB-24	8.84	-			PCB-74	193	-		
PCB-25	28.7	-			PCB-75	-	-	C048	48
PCB-26	60.2	-			PCB-76	-	-	C066	66
PCB-27	8.21	-			PCB-77	45.5	-		
PCB-28	195	-			PCB-78	ND	1.38		
PCB-29	ND	0.862			PCB-79	11.0	-		
PCB-30	ND	0.972			PCB-80	ND	0.894		
PCB-31	353	-			PCB-81	10.3	-		
PCB-32	65.7	-			PCB-82	111	-		
PCB-33	-	-	C020	20/21	PCB-83	43.5	-	C	112
PCB-34	ND	0.812			PCB-84	448	-	C	92
PCB-35	ND	1.01			PCB-85	157	-	C	116
PCB-36	ND	0.947			PCB-86	ND	1.15		
PCB-37	97.0	-			PCB-87	243	-	C	117/125
PCB-38	ND	0.816			PCB-88	12.8	-	C	91
PCB-39	ND	1.08			PCB-89	7.24	-		
PCB-40	35.0	-			PCB-90	1100	-	C	101
PCB-41	172	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	93.4	-	C	59	PCB-92	-	-	C084	84
PCB-43	358	-	C	49	PCB-93	ND	1.70		
PCB-44	327	-			PCB-94	4.43	-		
PCB-45	43.8	-			PCB-95	650	-		
PCB-46	15.2	-			PCB-96	4.48	-		
PCB-47	114	-			PCB-97	295	-		
PCB-48	26.7	-	C	75	PCB-98	ND	1.36	C	102
PCB-49	-	-	C043	43	PCB-99	427	-		
PCB-50	ND	1.37			PCB-100	7.07	-		

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EPA Method 1668
PCBs

FAL ID: 11719-007-SA
Client ID: LDW-Y1-SC-ENR-CA-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.03 g
% Solids: 99.81

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	211	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.985		
PCB-103	13.1	-			PCB-153	766	-		
PCB-104	ND	1.09			PCB-154	24.7	-		
PCB-105	301	-			PCB-155	ND	0.842		
PCB-106	800	-	C	118	PCB-156	118	-		
PCB-107	49.6	-	C	108	PCB-157	24.5	-		
PCB-108	-	-	C107	107	PCB-158	59.0	-	C	160
PCB-109	ND	0.953			PCB-159	6.35	-		
PCB-110	744	-			PCB-160	-	-	C158	158
PCB-111	11.2	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.11			PCB-163	-	-	C138	138/164
PCB-114	17.3	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	2.97	-	J	
PCB-117	-	-	C087	87/125	PCB-167	46.9	-		
PCB-118	-	-	C	106	PCB-168	ND	0.979		
PCB-119	44.1	-			PCB-169	ND	0.932		
PCB-120	ND	0.885			PCB-170	428	-		
PCB-121	64.0	-			PCB-171	105	-		
PCB-122	10.0	-			PCB-172	76.2	-		
PCB-123	15.1	-			PCB-173	ND	1.47		
PCB-124	32.0	-			PCB-174	395	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	1.29		
PCB-126	3.78	-	J		PCB-176	40.7	-		
PCB-127	ND	1.17			PCB-177	271	-		
PCB-128	134	-	C	162	PCB-178	72.8	-		
PCB-129	27.2	-			PCB-179	120	-		
PCB-130	35.1	-			PCB-180	774	-		
PCB-131	23.5	-	C	133	PCB-181	ND	1.27		
PCB-132	270	-	C	161	PCB-182	337	-	C	187
PCB-133	-	-	C131	131	PCB-183	241	-		
PCB-134	39.2	-	C	143	PCB-184	ND	0.860		
PCB-135	93.6	-			PCB-185	39.5	-		
PCB-136	177	-			PCB-186	ND	0.916		
PCB-137	48.2	-			PCB-187	-	-	C182	182
PCB-138	810	-	C	163/164	PCB-188	ND	1.14		
PCB-139	712	-	C	149	PCB-189	12.4	-		
PCB-140	3.89	-	J		PCB-190	83.9	-		
PCB-141	138	-			PCB-191	15.5	-		
PCB-142	ND	1.39			PCB-192	ND	0.987		
PCB-143	-	-	C134	134	PCB-193	46.9	-		
PCB-144	34.9	-			PCB-194	185	-		
PCB-145	ND	0.941			PCB-195	92.2	-		
PCB-146	113	-	C	165	PCB-196	223	-	C	203
PCB-147	13.9	-			PCB-197	8.63	-		
PCB-148	ND	1.19			PCB-198	3.97	-	J	
PCB-149	-	-	C139	139	PCB-199	208	-		
PCB-150	6.77	-			PCB-200	22.1	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-007-SA
Client ID: LDW-Y1-SC-ENR-CA-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.03 g
% Solids: 99.81

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	32.0	-		
PCB-202	44.8	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.889		
PCB-205	9.99	-		
PCB-206	96.7	-		
PCB-207	13.1	-		
PCB-208	28.4	-		
PCB-209	35.8	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	86.9	5.00 - 145	
13C-PCB-3	87.0	5.00 - 145	
13C-PCB-4	86.7	5.00 - 145	
13C-PCB-15	102	5.00 - 145	
13C-PCB-19	107	5.00 - 145	
13C-PCB-37	89.0	5.00 - 145	
13C-PCB-54	81.5	5.00 - 145	
13C-PCB-77	54.9	10.0 - 145	
13C-PCB-81	53.0	10.0 - 145	
13C-PCB-104	91.0	10.0 - 145	
13C-PCB-105	86.7	10.0 - 145	
13C-PCB-114	82.5	10.0 - 145	
13C-PCB-118	69.5	10.0 - 145	
13C-PCB-123	94.6	10.0 - 145	
13C-PCB-126	87.9	10.0 - 145	
13C-PCB-155	111	10.0 - 145	
13C-PCB-156	120	10.0 - 145	
13C-PCB-157	126	10.0 - 145	
13C-PCB-167	121	10.0 - 145	
13C-PCB-169	130	10.0 - 145	
13C-PCB-188	125	10.0 - 145	
13C-PCB-189	142	10.0 - 145	
13C-PCB-202	224	10.0 - 145	A
13C-PCB-205	106	10.0 - 145	
13C-PCB-206	96.7	10.0 - 145	
13C-PCB-208	116	10.0 - 145	
13C-PCB-209	91.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	95.1	5.00 - 145	
13C-PCB-111	78.0	10.0 - 145	
13C-PCB-178	145	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-008-SA
Client ID: LDW-Y1-SC-ENR-CB-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.01 g
% Solids: 98.91

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018
Total Conc: 57800

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	5.24	-			PCB-51	22.7	-		
PCB-2	2.62	-	J		PCB-52	1570	-	C	69
PCB-3	6.46	-			PCB-53	79.8	-		
PCB-4	20.9	-			PCB-54	ND	0.563		
PCB-5	4.08	-			PCB-55	25.5	-		
PCB-6	29.2	-			PCB-56	361	-	C	60
PCB-7	6.79	-			PCB-57	3.85	-	J	
PCB-8	125	-			PCB-58	1.87	-	J	
PCB-9	5.18	-			PCB-59	-	-	C042	42
PCB-10	1.59	-	J		PCB-60	-	-	C056	56
PCB-11	17.4	-			PCB-61	1220	-	C	70
PCB-12	10.5	-			PCB-62	ND	0.658		
PCB-13	10.3	-			PCB-63	27.8	-		
PCB-14	ND	0.744			PCB-64	-	-	C041	41/71/72
PCB-15	95.1	-			PCB-65	ND	0.629		
PCB-16	45.5	-			PCB-66	822	-	C	76
PCB-17	82.3	-			PCB-67	19.8	-		
PCB-18	182	-			PCB-68	1.80	-	J	
PCB-19	13.5	-			PCB-69	-	-	C052	52
PCB-20	202	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	119	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.591			PCB-73	ND	0.731		
PCB-24	10.6	-			PCB-74	368	-		
PCB-25	40.1	-			PCB-75	-	-	C048	48
PCB-26	75.8	-			PCB-76	-	-	C066	66
PCB-27	10.4	-			PCB-77	106	-		
PCB-28	327	-			PCB-78	ND	0.614		
PCB-29	2.69	-	J		PCB-79	29.5	-		
PCB-30	ND	0.512			PCB-80	4.21	-		
PCB-31	357	-			PCB-81	53.3	-		
PCB-32	82.1	-			PCB-82	303	-		
PCB-33	-	-	C020	20/21	PCB-83	117	-	C	112
PCB-34	2.93	-	J		PCB-84	1120	-	C	92
PCB-35	11.6	-			PCB-85	375	-	C	116
PCB-36	ND	0.741			PCB-86	ND	0.841		
PCB-37	117	-			PCB-87	1100	-	C	117/125
PCB-38	ND	0.638			PCB-88	286	-	C	91
PCB-39	ND	0.843			PCB-89	23.6	-		
PCB-40	63.8	-			PCB-90	3130	-	C	101
PCB-41	425	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	175	-	C	59	PCB-92	-	-	C084	84
PCB-43	656	-	C	49	PCB-93	ND	1.24		
PCB-44	859	-			PCB-94	9.18	-		
PCB-45	57.9	-			PCB-95	2130	-		
PCB-46	24.8	-			PCB-96	12.4	-		
PCB-47	150	-			PCB-97	665	-		
PCB-48	105	-	C	75	PCB-98	ND	0.992	C	102
PCB-49	-	-	C043	43	PCB-99	973	-		
PCB-50	ND	0.886			PCB-100	9.06	-		

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EPA Method 1668
PCBs

FAL ID: 11719-008-SA
Client ID: LDW-Y1-SC-ENR-CB-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.01 g
% Solids: 98.91

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1070	-		
PCB-102	-	-	C098	98	PCB-152	3.98	-	J	
PCB-103	20.3	-			PCB-153	3360	-		
PCB-104	ND	0.794			PCB-154	41.7	-		
PCB-105	871	-			PCB-155	ND	0.880		
PCB-106	2420	-	C	118	PCB-156	366	-		
PCB-107	154	-	C	108	PCB-157	63.4	-		
PCB-108	-	-	C107	107	PCB-158	396	-	C	160
PCB-109	ND	0.698			PCB-159	43.8	-		
PCB-110	2840	-			PCB-160	-	-	C158	158
PCB-111	51.3	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.811			PCB-163	-	-	C138	138/164
PCB-114	57.0	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	11.6	-		
PCB-117	-	-	C087	87/125	PCB-167	154	-		
PCB-118	-	-	C	106	PCB-168	ND	0.438		
PCB-119	50.6	-			PCB-169	ND	0.400		
PCB-120	9.65	-			PCB-170	1390	-		
PCB-121	ND	0.902			PCB-171	391	-		
PCB-122	32.8	-			PCB-172	252	-		
PCB-123	32.2	-			PCB-173	29.3	-		
PCB-124	115	-			PCB-174	1330	-		
PCB-125	-	-	C087	87/117	PCB-175	54.2	-		
PCB-126	15.0	-			PCB-176	185	-		
PCB-127	ND	0.733			PCB-177	837	-		
PCB-128	505	-	C	162	PCB-178	302	-		
PCB-129	159	-			PCB-179	587	-		
PCB-130	191	-			PCB-180	2540	-		
PCB-131	87.5	-	C	133	PCB-181	ND	0.680		
PCB-132	1040	-	C	161	PCB-182	1560	-	C	187
PCB-133	-	-	C131	131	PCB-183	817	-		
PCB-134	176	-	C	143	PCB-184	ND	0.461		
PCB-135	422	-			PCB-185	172	-		
PCB-136	696	-			PCB-186	ND	0.491		
PCB-137	176	-			PCB-187	-	-	C182	182
PCB-138	3330	-	C	163/164	PCB-188	ND	0.581		
PCB-139	3120	-	C	149	PCB-189	45.1	-		
PCB-140	ND	0.526			PCB-190	302	-		
PCB-141	824	-			PCB-191	64.1	-		
PCB-142	ND	0.623			PCB-192	ND	0.529		
PCB-143	-	-	C134	134	PCB-193	166	-		
PCB-144	210	-			PCB-194	546	-		
PCB-145	ND	0.984			PCB-195	313	-		
PCB-146	453	-	C	165	PCB-196	1020	-	C	203
PCB-147	45.4	-			PCB-197	34.8	-		
PCB-148	ND	1.24			PCB-198	57.3	-		
PCB-149	-	-	C139	139	PCB-199	973	-		
PCB-150	8.07	-			PCB-200	118	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-008-SA
Client ID: LDW-Y1-SC-ENR-CB-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.01 g
% Solids: 98.91

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	127	-		
PCB-202	139	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.05		
PCB-205	38.1	-		
PCB-206	206	-		
PCB-207	29.8	-		
PCB-208	42.0	-		
PCB-209	41.5	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	77.8	5.00 - 145	
13C-PCB-3	95.7	5.00 - 145	
13C-PCB-4	88.0	5.00 - 145	
13C-PCB-15	103	5.00 - 145	
13C-PCB-19	101	5.00 - 145	
13C-PCB-37	91.3	5.00 - 145	
13C-PCB-54	79.3	5.00 - 145	
13C-PCB-77	100	10.0 - 145	
13C-PCB-81	94.4	10.0 - 145	
13C-PCB-104	95.3	10.0 - 145	
13C-PCB-105	96.7	10.0 - 145	
13C-PCB-114	92.2	10.0 - 145	
13C-PCB-118	85.1	10.0 - 145	
13C-PCB-123	89.2	10.0 - 145	
13C-PCB-126	101	10.0 - 145	
13C-PCB-155	92.2	10.0 - 145	
13C-PCB-156	106	10.0 - 145	
13C-PCB-157	103	10.0 - 145	
13C-PCB-167	97.0	10.0 - 145	
13C-PCB-169	113	10.0 - 145	
13C-PCB-188	97.2	10.0 - 145	
13C-PCB-189	128	10.0 - 145	
13C-PCB-202	106	10.0 - 145	
13C-PCB-205	107	10.0 - 145	
13C-PCB-206	119	10.0 - 145	
13C-PCB-208	105	10.0 - 145	
13C-PCB-209	118	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	94.0	5.00 - 145	
13C-PCB-111	96.4	10.0 - 145	
13C-PCB-178	109	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-009-SA
Client ID: LDW-Y1-SC-ENR-CC-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 99.78

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018
Total Conc: 21100

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	5.94	-			PCB-51	18.7	-		
PCB-2	2.42	-	J		PCB-52	529	-	C	69
PCB-3	5.44	-			PCB-53	47.9	-		
PCB-4	19.4	-			PCB-54	ND	0.702		
PCB-5	3.06	-	J		PCB-55	13.1	-		
PCB-6	28.9	-			PCB-56	240	-	C	60
PCB-7	5.41	-			PCB-57	3.52	-	J	
PCB-8	108	-			PCB-58	1.68	-	J	
PCB-9	5.50	-			PCB-59	-	-	C042	42
PCB-10	1.91	-	J		PCB-60	-	-	C056	56
PCB-11	15.2	-			PCB-61	481	-	C	70
PCB-12	6.56	-			PCB-62	ND	0.820		
PCB-13	9.81	-			PCB-63	16.9	-		
PCB-14	ND	0.830			PCB-64	-	-	C041	41/71/72
PCB-15	71.0	-			PCB-65	ND	0.785		
PCB-16	50.9	-			PCB-66	470	-	C	76
PCB-17	65.3	-			PCB-67	16.2	-		
PCB-18	142	-			PCB-68	3.89	-	J	
PCB-19	13.3	-			PCB-69	-	-	C052	52
PCB-20	133	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	86.6	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.769			PCB-73	ND	0.911		
PCB-24	8.41	-			PCB-74	189	-		
PCB-25	27.7	-			PCB-75	-	-	C048	48
PCB-26	56.7	-			PCB-76	-	-	C066	66
PCB-27	8.96	-			PCB-77	44.9	-		
PCB-28	256	-			PCB-78	ND	0.773		
PCB-29	2.50	-	J		PCB-79	12.2	-		
PCB-30	ND	1.04			PCB-80	ND	0.722		
PCB-31	233	-			PCB-81	17.9	-		
PCB-32	50.7	-			PCB-82	90.0	-		
PCB-33	-	-	C020	20/21	PCB-83	35.7	-	C	112
PCB-34	2.25	-	J		PCB-84	340	-	C	92
PCB-35	7.17	-			PCB-85	123	-	C	116
PCB-36	ND	0.963			PCB-86	ND	0.925		
PCB-37	85.4	-			PCB-87	304	-	C	117/125
PCB-38	3.50	-	J		PCB-88	107	-	C	91
PCB-39	ND	1.10			PCB-89	9.12	-		
PCB-40	56.8	-			PCB-90	926	-	C	101
PCB-41	329	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	130	-	C	59	PCB-92	-	-	C084	84
PCB-43	366	-	C	49	PCB-93	ND	1.49		
PCB-44	378	-			PCB-94	3.22	-	J	
PCB-45	40.6	-			PCB-95	624	-		
PCB-46	16.9	-			PCB-96	5.06	-		
PCB-47	114	-			PCB-97	203	-		
PCB-48	82.2	-	C	75	PCB-98	ND	1.19	C	102
PCB-49	-	-	C043	43	PCB-99	363	-		
PCB-50	ND	1.10			PCB-100	7.18	-		

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EPA Method 1668
PCBs

FAL ID: 11719-009-SA
Client ID: LDW-Y1-SC-ENR-CC-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 99.78

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	304	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.599		
PCB-103	18.7	-			PCB-153	1310	-		
PCB-104	ND	0.949			PCB-154	38.9	-		
PCB-105	319	-			PCB-155	ND	0.512		
PCB-106	879	-	C	118	PCB-156	132	-		
PCB-107	61.4	-	C	108	PCB-157	26.1	-		
PCB-108	-	-	C107	107	PCB-158	137	-	C	160
PCB-109	ND	0.768			PCB-159	15.2	-		
PCB-110	819	-			PCB-160	-	-	C158	158
PCB-111	13.5	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.893			PCB-163	-	-	C138	138/164
PCB-114	20.7	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	3.80	-	J	
PCB-117	-	-	C087	87/125	PCB-167	68.5	-		
PCB-118	-	-	C	106	PCB-168	ND	0.802		
PCB-119	25.1	-			PCB-169	ND	0.735		
PCB-120	ND	0.713			PCB-170	451	-		
PCB-121	ND	1.08			PCB-171	122	-		
PCB-122	14.0	-			PCB-172	71.7	-		
PCB-123	10.8	-			PCB-173	9.53	-		
PCB-124	41.7	-			PCB-174	361	-		
PCB-125	-	-	C087	87/117	PCB-175	17.9	-		
PCB-126	5.61	-			PCB-176	53.4	-		
PCB-127	ND	0.606			PCB-177	281	-		
PCB-128	191	-	C	162	PCB-178	94.8	-		
PCB-129	51.3	-			PCB-179	168	-		
PCB-130	79.6	-			PCB-180	727	-		
PCB-131	36.7	-	C	133	PCB-181	ND	1.36		
PCB-132	334	-	C	161	PCB-182	517	-	C	187
PCB-133	-	-	C131	131	PCB-183	273	-		
PCB-134	60.0	-	C	143	PCB-184	ND	0.924		
PCB-135	148	-			PCB-185	42.3	-		
PCB-136	206	-			PCB-186	ND	0.985		
PCB-137	52.7	-			PCB-187	-	-	C182	182
PCB-138	1210	-	C	163/164	PCB-188	2.34	-	J	
PCB-139	979	-	C	149	PCB-189	15.0	-		
PCB-140	13.2	-			PCB-190	102	-		
PCB-141	203	-			PCB-191	22.1	-		
PCB-142	ND	1.14			PCB-192	ND	1.06		
PCB-143	-	-	C134	134	PCB-193	63.0	-		
PCB-144	61.7	-			PCB-194	174	-		
PCB-145	ND	0.572			PCB-195	85.0	-		
PCB-146	206	-	C	165	PCB-196	350	-	C	203
PCB-147	25.0	-			PCB-197	11.0	-		
PCB-148	ND	0.723			PCB-198	12.8	-		
PCB-149	-	-	C139	139	PCB-199	322	-		
PCB-150	7.60	-			PCB-200	35.6	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-009-SA
Client ID: LDW-Y1-SC-ENR-CC-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 99.78

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	40.0	-		
PCB-202	49.3	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.23		
PCB-205	10.2	-		
PCB-206	97.5	-		
PCB-207	13.9	-		
PCB-208	25.7	-		
PCB-209	37.6	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.0	5.00 - 145	
13C-PCB-3	88.4	5.00 - 145	
13C-PCB-4	86.8	5.00 - 145	
13C-PCB-15	99.9	5.00 - 145	
13C-PCB-19	99.5	5.00 - 145	
13C-PCB-37	113	5.00 - 145	
13C-PCB-54	81.8	5.00 - 145	
13C-PCB-77	107	10.0 - 145	
13C-PCB-81	97.8	10.0 - 145	
13C-PCB-104	93.9	10.0 - 145	
13C-PCB-105	102	10.0 - 145	
13C-PCB-114	102	10.0 - 145	
13C-PCB-118	89.4	10.0 - 145	
13C-PCB-123	90.1	10.0 - 145	
13C-PCB-126	106	10.0 - 145	
13C-PCB-155	94.4	10.0 - 145	
13C-PCB-156	103	10.0 - 145	
13C-PCB-157	103	10.0 - 145	
13C-PCB-167	96.5	10.0 - 145	
13C-PCB-169	118	10.0 - 145	
13C-PCB-188	93.0	10.0 - 145	
13C-PCB-189	125	10.0 - 145	
13C-PCB-202	99.5	10.0 - 145	
13C-PCB-205	107	10.0 - 145	
13C-PCB-206	98.4	10.0 - 145	
13C-PCB-208	99.1	10.0 - 145	
13C-PCB-209	98.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	105	5.00 - 145	
13C-PCB-111	98.1	10.0 - 145	
13C-PCB-178	99.9	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-010-SA
Client ID: LDW-Y1-SC-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 98.32

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018
Total Conc: 15000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	82.3	-			PCB-51	17.0	-		
PCB-2	12.0	-			PCB-52	366	-	C	69
PCB-3	48.4	-			PCB-53	42.2	-		
PCB-4	33.9	-			PCB-54	ND	0.755		
PCB-5	6.82	-			PCB-55	10.4	-		
PCB-6	41.0	-			PCB-56	190	-	C	60
PCB-7	12.4	-			PCB-57	2.53	-	J	
PCB-8	144	-			PCB-58	1.98	-	J	
PCB-9	12.1	-			PCB-59	-	-	C042	42
PCB-10	4.39	-			PCB-60	-	-	C056	56
PCB-11	16.1	-			PCB-61	352	-	C	70
PCB-12	10.8	-			PCB-62	ND	0.882		
PCB-13	14.1	-			PCB-63	13.5	-		
PCB-14	ND	0.783			PCB-64	-	-	C041	41/71/72
PCB-15	67.4	-			PCB-65	ND	0.844		
PCB-16	38.7	-			PCB-66	362	-	C	76
PCB-17	66.8	-			PCB-67	12.4	-		
PCB-18	143	-			PCB-68	4.52	-		
PCB-19	12.4	-			PCB-69	-	-	C052	52
PCB-20	107	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	68.2	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.654			PCB-73	ND	0.981		
PCB-24	8.58	-			PCB-74	139	-		
PCB-25	22.5	-			PCB-75	-	-	C048	48
PCB-26	44.6	-			PCB-76	-	-	C066	66
PCB-27	8.65	-			PCB-77	28.0	-		
PCB-28	201	-			PCB-78	ND	0.914		
PCB-29	1.79	-	J		PCB-79	7.93	-		
PCB-30	ND	0.966			PCB-80	ND	0.777		
PCB-31	201	-			PCB-81	12.5	-		
PCB-32	53.5	-			PCB-82	61.8	-		
PCB-33	-	-	C020	20/21	PCB-83	25.7	-	C	112
PCB-34	2.13	-	J		PCB-84	218	-	C	92
PCB-35	4.84	-			PCB-85	88.4	-	C	116
PCB-36	ND	0.819			PCB-86	ND	1.33		
PCB-37	59.8	-			PCB-87	198	-	C	117/125
PCB-38	ND	0.706			PCB-88	90.7	-	C	91
PCB-39	ND	0.932			PCB-89	7.66	-		
PCB-40	58.3	-			PCB-90	569	-	C	101
PCB-41	265	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	107	-	C	59	PCB-92	-	-	C084	84
PCB-43	275	-	C	49	PCB-93	ND	1.21		
PCB-44	261	-			PCB-94	3.30	-	J	
PCB-45	37.1	-			PCB-95	467	-		
PCB-46	14.1	-			PCB-96	4.77	-		
PCB-47	94.2	-			PCB-97	132	-		
PCB-48	58.8	-	C	75	PCB-98	ND	0.969	C	102
PCB-49	-	-	C043	43	PCB-99	248	-		
PCB-50	ND	1.19			PCB-100	5.65	-		

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EPA Method 1668
PCBs

FAL ID: 11719-010-SA
Client ID: LDW-Y1-SC-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 98.32

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	192	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.768		
PCB-103	10.9	-			PCB-153	874	-		
PCB-104	ND	0.775			PCB-154	22.2	-		
PCB-105	193	-			PCB-155	ND	0.657		
PCB-106	519	-	C	118	PCB-156	81.9	-		
PCB-107	35.2	-	C	108	PCB-157	16.2	-		
PCB-108	-	-	C107	107	PCB-158	96.1	-	C	160
PCB-109	ND	1.10			PCB-159	11.0	-		
PCB-110	536	-			PCB-160	-	-	C158	158
PCB-111	8.78	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.28			PCB-163	-	-	C138	138/164
PCB-114	15.1	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	3.99	-	J	
PCB-117	-	-	C087	87/125	PCB-167	34.9	-		
PCB-118	-	-	C	106	PCB-168	ND	1.03		
PCB-119	18.6	-			PCB-169	ND	0.993		
PCB-120	3.09	-	J		PCB-170	316	-		
PCB-121	ND	0.880			PCB-171	87.6	-		
PCB-122	7.77	-			PCB-172	53.4	-		
PCB-123	6.41	-			PCB-173	5.63	-		
PCB-124	21.7	-			PCB-174	274	-		
PCB-125	-	-	C087	87/117	PCB-175	13.4	-		
PCB-126	3.40	-	J		PCB-176	40.4	-		
PCB-127	ND	1.14			PCB-177	186	-		
PCB-128	125	-	C	162	PCB-178	57.9	-		
PCB-129	39.6	-			PCB-179	123	-		
PCB-130	47.8	-			PCB-180	558	-		
PCB-131	19.7	-	C	133	PCB-181	ND	1.17		
PCB-132	207	-	C	161	PCB-182	356	-	C	187
PCB-133	-	-	C131	131	PCB-183	189	-		
PCB-134	32.3	-	C	143	PCB-184	ND	0.797		
PCB-135	90.1	-			PCB-185	30.7	-		
PCB-136	147	-			PCB-186	ND	0.849		
PCB-137	38.9	-			PCB-187	-	-	C182	182
PCB-138	791	-	C	163/164	PCB-188	ND	0.937		
PCB-139	627	-	C	149	PCB-189	10.5	-		
PCB-140	ND	1.24			PCB-190	75.0	-		
PCB-141	159	-			PCB-191	14.1	-		
PCB-142	ND	1.47			PCB-192	ND	0.914		
PCB-143	-	-	C134	134	PCB-193	38.1	-		
PCB-144	38.0	-			PCB-194	159	-		
PCB-145	ND	0.734			PCB-195	66.2	-		
PCB-146	123	-	C	165	PCB-196	245	-	C	203
PCB-147	13.6	-			PCB-197	8.53	-		
PCB-148	ND	0.928			PCB-198	12.0	-		
PCB-149	-	-	C139	139	PCB-199	224	-		
PCB-150	2.99	-	J		PCB-200	23.8	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-010-SA
Client ID: LDW-Y1-SC-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 98.32

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	28.0	-		
PCB-202	36.7	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.728		
PCB-205	7.88	-		
PCB-206	77.7	-		
PCB-207	10.7	-		
PCB-208	18.3	-		
PCB-209	25.5	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	93.4	5.00 - 145	
13C-PCB-3	85.1	5.00 - 145	
13C-PCB-4	89.4	5.00 - 145	
13C-PCB-15	97.6	5.00 - 145	
13C-PCB-19	92.4	5.00 - 145	
13C-PCB-37	116	5.00 - 145	
13C-PCB-54	82.8	5.00 - 145	
13C-PCB-77	112	10.0 - 145	
13C-PCB-81	104	10.0 - 145	
13C-PCB-104	86.7	10.0 - 145	
13C-PCB-105	104	10.0 - 145	
13C-PCB-114	98.5	10.0 - 145	
13C-PCB-118	89.2	10.0 - 145	
13C-PCB-123	89.3	10.0 - 145	
13C-PCB-126	106	10.0 - 145	
13C-PCB-155	98.3	10.0 - 145	
13C-PCB-156	101	10.0 - 145	
13C-PCB-157	105	10.0 - 145	
13C-PCB-167	96.3	10.0 - 145	
13C-PCB-169	109	10.0 - 145	
13C-PCB-188	96.1	10.0 - 145	
13C-PCB-189	113	10.0 - 145	
13C-PCB-202	96.9	10.0 - 145	
13C-PCB-205	96.4	10.0 - 145	
13C-PCB-206	80.6	10.0 - 145	
13C-PCB-208	75.5	10.0 - 145	
13C-PCB-209	81.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	110	5.00 - 145	
13C-PCB-111	106	10.0 - 145	
13C-PCB-178	92.2	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-011-SA
Client ID: LDW-Y1-SC-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 97.34

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018
Total Conc: 24900

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	8.66	-			PCB-51	23.6	-		
PCB-2	2.66	-	J		PCB-52	563	-	C	69
PCB-3	7.35	-			PCB-53	64.3	-		
PCB-4	27.1	-			PCB-54	ND	0.937		
PCB-5	7.10	-			PCB-55	16.2	-		
PCB-6	48.0	-			PCB-56	284	-	C	60
PCB-7	8.81	-			PCB-57	4.43	-		
PCB-8	152	-			PCB-58	2.71	-	J	
PCB-9	9.00	-			PCB-59	-	-	C042	42
PCB-10	4.45	-			PCB-60	-	-	C056	56
PCB-11	19.7	-			PCB-61	562	-	C	70
PCB-12	7.35	-			PCB-62	ND	1.09		
PCB-13	15.2	-			PCB-63	18.7	-		
PCB-14	ND	0.643			PCB-64	-	-	C041	41/71/72
PCB-15	81.0	-			PCB-65	ND	1.05		
PCB-16	61.6	-			PCB-66	526	-	C	76
PCB-17	92.3	-			PCB-67	18.7	-		
PCB-18	210	-			PCB-68	4.25	-		
PCB-19	16.4	-			PCB-69	-	-	C052	52
PCB-20	175	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	109	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.692			PCB-73	ND	1.22		
PCB-24	9.84	-			PCB-74	226	-		
PCB-25	39.5	-			PCB-75	-	-	C048	48
PCB-26	76.5	-			PCB-76	-	-	C066	66
PCB-27	13.8	-			PCB-77	47.0	-		
PCB-28	294	-			PCB-78	ND	0.579		
PCB-29	2.73	-	J		PCB-79	12.4	-		
PCB-30	ND	0.545			PCB-80	ND	0.964		
PCB-31	294	-			PCB-81	17.6	-		
PCB-32	78.8	-			PCB-82	92.1	-		
PCB-33	-	-	C020	20/21	PCB-83	36.7	-	C	112
PCB-34	2.59	-	J		PCB-84	327	-	C	92
PCB-35	6.99	-			PCB-85	129	-	C	116
PCB-36	ND	0.867			PCB-86	ND	1.30		
PCB-37	95.9	-			PCB-87	304	-	C	117/125
PCB-38	ND	0.531			PCB-88	114	-	C	91
PCB-39	ND	0.987			PCB-89	10.2	-		
PCB-40	77.3	-			PCB-90	874	-	C	101
PCB-41	421	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	167	-	C	59	PCB-92	-	-	C084	84
PCB-43	447	-	C	49	PCB-93	ND	1.01		
PCB-44	432	-			PCB-94	3.56	-	J	
PCB-45	56.4	-			PCB-95	616	-		
PCB-46	23.0	-			PCB-96	7.33	-		
PCB-47	151	-			PCB-97	204	-		
PCB-48	94.8	-	C	75	PCB-98	ND	0.805	C	102
PCB-49	-	-	C043	43	PCB-99	357	-		
PCB-50	ND	1.47			PCB-100	7.08	-		

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EPA Method 1668
PCBs

FAL ID: 11719-011-SA
Client ID: LDW-Y1-SC-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 97.34

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	303	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.473		
PCB-103	16.8	-			PCB-153	1280	-		
PCB-104	ND	0.643			PCB-154	28.9	-		
PCB-105	340	-			PCB-155	ND	0.404		
PCB-106	859	-	C	118	PCB-156	167	-		
PCB-107	60.4	-	C	108	PCB-157	34.6	-		
PCB-108	-	-	C107	107	PCB-158	156	-	C	160
PCB-109	ND	1.08			PCB-159	15.8	-		
PCB-110	830	-			PCB-160	-	-	C158	158
PCB-111	16.6	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.26			PCB-163	-	-	C138	138/164
PCB-114	21.0	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	6.65	-		
PCB-117	-	-	C087	87/125	PCB-167	66.2	-		
PCB-118	-	-	C	106	PCB-168	ND	0.903		
PCB-119	25.3	-			PCB-169	ND	0.810		
PCB-120	ND	1.01			PCB-170	584	-		
PCB-121	ND	0.731			PCB-171	147	-		
PCB-122	11.9	-			PCB-172	89.1	-		
PCB-123	10.9	-			PCB-173	9.90	-		
PCB-124	36.7	-			PCB-174	476	-		
PCB-125	-	-	C087	87/117	PCB-175	24.5	-		
PCB-126	5.26	-			PCB-176	66.2	-		
PCB-127	ND	0.936			PCB-177	313	-		
PCB-128	215	-	C	162	PCB-178	99.1	-		
PCB-129	61.4	-			PCB-179	202	-		
PCB-130	75.3	-			PCB-180	1040	-		
PCB-131	33.0	-	C	133	PCB-181	ND	1.32		
PCB-132	318	-	C	161	PCB-182	590	-	C	187
PCB-133	-	-	C131	131	PCB-183	317	-		
PCB-134	56.9	-	C	143	PCB-184	ND	0.893		
PCB-135	140	-			PCB-185	63.4	-		
PCB-136	222	-			PCB-186	ND	0.951		
PCB-137	67.2	-			PCB-187	-	-	C182	182
PCB-138	1260	-	C	163/164	PCB-188	ND	1.16		
PCB-139	1000	-	C	149	PCB-189	19.5	-		
PCB-140	ND	1.08			PCB-190	142	-		
PCB-141	237	-			PCB-191	25.7	-		
PCB-142	ND	1.28			PCB-192	ND	1.02		
PCB-143	-	-	C134	134	PCB-193	74.7	-		
PCB-144	60.3	-			PCB-194	492	-		
PCB-145	ND	0.452			PCB-195	188	-		
PCB-146	179	-	C	165	PCB-196	772	-	C	203
PCB-147	22.3	-			PCB-197	19.8	-		
PCB-148	ND	0.571			PCB-198	26.8	-		
PCB-149	-	-	C139	139	PCB-199	721	-		
PCB-150	5.25	-			PCB-200	78.2	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-011-SA
Client ID: LDW-Y1-SC-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 97.34

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	73.3	-		
PCB-202	88.9	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.721		
PCB-205	28.3	-		
PCB-206	364	-		
PCB-207	42.6	-		
PCB-208	64.3	-		
PCB-209	44.4	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	85.7	5.00 - 145	
13C-PCB-3	80.8	5.00 - 145	
13C-PCB-4	82.0	5.00 - 145	
13C-PCB-15	94.0	5.00 - 145	
13C-PCB-19	91.5	5.00 - 145	
13C-PCB-37	108	5.00 - 145	
13C-PCB-54	76.2	5.00 - 145	
13C-PCB-77	106	10.0 - 145	
13C-PCB-81	100	10.0 - 145	
13C-PCB-104	87.9	10.0 - 145	
13C-PCB-105	99.7	10.0 - 145	
13C-PCB-114	96.9	10.0 - 145	
13C-PCB-118	89.8	10.0 - 145	
13C-PCB-123	97.3	10.0 - 145	
13C-PCB-126	105	10.0 - 145	
13C-PCB-155	86.5	10.0 - 145	
13C-PCB-156	96.6	10.0 - 145	
13C-PCB-157	101	10.0 - 145	
13C-PCB-167	94.8	10.0 - 145	
13C-PCB-169	109	10.0 - 145	
13C-PCB-188	86.3	10.0 - 145	
13C-PCB-189	117	10.0 - 145	
13C-PCB-202	94.3	10.0 - 145	
13C-PCB-205	95.4	10.0 - 145	
13C-PCB-206	84.6	10.0 - 145	
13C-PCB-208	81.0	10.0 - 145	
13C-PCB-209	86.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	93.4	5.00 - 145	
13C-PCB-111	97.1	10.0 - 145	
13C-PCB-178	92.1	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-012-SA
Client ID: LDW-Y1-SC-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 99.39

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018
Total Conc: 14200

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	4.44	-			PCB-51	14.4	-		
PCB-2	ND	0.891			PCB-52	318	-	C	69
PCB-3	4.64	-			PCB-53	36.4	-		
PCB-4	18.0	-			PCB-54	ND	0.929		
PCB-5	ND	1.49			PCB-55	9.74	-		
PCB-6	30.9	-			PCB-56	153	-	C	60
PCB-7	ND	1.41			PCB-57	2.46	-	J	
PCB-8	91.8	-			PCB-58	2.22	-	J	
PCB-9	ND	1.52			PCB-59	-	-	C042	42
PCB-10	ND	1.62			PCB-60	-	-	C056	56
PCB-11	21.5	-			PCB-61	339	-	C	70
PCB-12	12.7	-			PCB-62	ND	1.09		
PCB-13	7.19	-			PCB-63	13.8	-		
PCB-14	ND	1.61			PCB-64	-	-	C041	41/71/72
PCB-15	81.2	-			PCB-65	ND	1.04		
PCB-16	33.1	-			PCB-66	345	-	C	76
PCB-17	52.9	-			PCB-67	12.6	-		
PCB-18	111	-			PCB-68	3.78	-	J	
PCB-19	10.3	-			PCB-69	-	-	C052	52
PCB-20	106	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	65.2	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.701			PCB-73	ND	1.21		
PCB-24	6.58	-			PCB-74	137	-		
PCB-25	22.1	-			PCB-75	-	-	C048	48
PCB-26	44.8	-			PCB-76	-	-	C066	66
PCB-27	6.34	-			PCB-77	23.8	-		
PCB-28	167	-			PCB-78	ND	1.49		
PCB-29	ND	0.799			PCB-79	9.28	-		
PCB-30	ND	1.20			PCB-80	ND	0.956		
PCB-31	204	-			PCB-81	8.80	-		
PCB-32	43.0	-			PCB-82	66.3	-		
PCB-33	-	-	C020	20/21	PCB-83	25.8	-	C	112
PCB-34	ND	0.752			PCB-84	238	-	C	92
PCB-35	4.04	-			PCB-85	95.6	-	C	116
PCB-36	ND	0.878			PCB-86	ND	1.50		
PCB-37	51.5	-			PCB-87	173	-	C	117/125
PCB-38	ND	0.757			PCB-88	82.2	-	C	91
PCB-39	ND	0.999			PCB-89	4.90	-		
PCB-40	45.1	-			PCB-90	620	-	C	101
PCB-41	225	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	95.8	-	C	59	PCB-92	-	-	C084	84
PCB-43	260	-	C	49	PCB-93	ND	1.97		
PCB-44	249	-			PCB-94	ND	1.83		
PCB-45	32.2	-			PCB-95	462	-		
PCB-46	14.2	-			PCB-96	3.86	-	J	
PCB-47	92.2	-			PCB-97	142	-		
PCB-48	45.4	-	C	75	PCB-98	ND	1.57	C	102
PCB-49	-	-	C043	43	PCB-99	259	-		
PCB-50	ND	1.46			PCB-100	5.48	-		

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EPA Method 1668
PCBs

FAL ID: 11719-012-SA
Client ID: LDW-Y1-SC-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 99.39

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	195	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.879		
PCB-103	9.93	-			PCB-153	701	-		
PCB-104	ND	1.26			PCB-154	14.8	-		
PCB-105	170	-			PCB-155	ND	0.752		
PCB-106	441	-	C	118	PCB-156	70.3	-		
PCB-107	34.0	-	C	108	PCB-157	12.8	-		
PCB-108	-	-	C107	107	PCB-158	68.5	-	C	160
PCB-109	ND	1.24			PCB-159	8.30	-		
PCB-110	540	-			PCB-160	-	-	C158	158
PCB-111	8.64	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.44			PCB-163	-	-	C138	138/164
PCB-114	9.51	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	1.02		
PCB-117	-	-	C087	87/125	PCB-167	28.2	-		
PCB-118	-	-	C	106	PCB-168	ND	0.977		
PCB-119	18.4	-			PCB-169	ND	0.988		
PCB-120	ND	1.15			PCB-170	274	-		
PCB-121	ND	1.43			PCB-171	78.9	-		
PCB-122	5.70	-			PCB-172	50.2	-		
PCB-123	7.19	-			PCB-173	5.86	-		
PCB-124	17.1	-			PCB-174	291	-		
PCB-125	-	-	C087	87/117	PCB-175	11.7	-		
PCB-126	3.25	-			PCB-176	41.3	-		
PCB-127	ND	1.58			PCB-177	181	-		
PCB-128	102	-	C	162	PCB-178	68.7	-		
PCB-129	28.1	-			PCB-179	127	-		
PCB-130	37.0	-			PCB-180	561	-		
PCB-131	19.1	-	C	133	PCB-181	ND	1.33		
PCB-132	172	-	C	161	PCB-182	371	-	C	187
PCB-133	-	-	C131	131	PCB-183	197	-		
PCB-134	32.3	-	C	143	PCB-184	ND	0.901		
PCB-135	70.2	-			PCB-185	37.5	-		
PCB-136	120	-			PCB-186	ND	0.960		
PCB-137	35.5	-			PCB-187	-	-	C182	182
PCB-138	650	-	C	163/164	PCB-188	ND	1.15		
PCB-139	576	-	C	149	PCB-189	9.69	-		
PCB-140	ND	1.17			PCB-190	62.6	-		
PCB-141	130	-			PCB-191	13.0	-		
PCB-142	ND	1.39			PCB-192	ND	1.03		
PCB-143	-	-	C134	134	PCB-193	34.1	-		
PCB-144	29.3	-			PCB-194	192	-		
PCB-145	ND	0.841			PCB-195	95.8	-		
PCB-146	97.8	-	C	165	PCB-196	360	-	C	203
PCB-147	10.6	-			PCB-197	11.8	-		
PCB-148	ND	1.06			PCB-198	18.7	-		
PCB-149	-	-	C139	139	PCB-199	346	-		
PCB-150	3.31	-	J		PCB-200	39.9	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-012-SA
Client ID: LDW-Y1-SC-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 99.39

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	44.2	-		
PCB-202	61.4	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.17		
PCB-205	11.5	-		
PCB-206	180	-		
PCB-207	25.7	-		
PCB-208	41.6	-		
PCB-209	31.6	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	87.5	5.00 - 145	
13C-PCB-3	82.8	5.00 - 145	
13C-PCB-4	84.3	5.00 - 145	
13C-PCB-15	93.3	5.00 - 145	
13C-PCB-19	105	5.00 - 145	
13C-PCB-37	118	5.00 - 145	
13C-PCB-54	79.4	5.00 - 145	
13C-PCB-77	60.9	10.0 - 145	
13C-PCB-81	62.0	10.0 - 145	
13C-PCB-104	84.9	10.0 - 145	
13C-PCB-105	80.2	10.0 - 145	
13C-PCB-114	81.3	10.0 - 145	
13C-PCB-118	73.6	10.0 - 145	
13C-PCB-123	84.1	10.0 - 145	
13C-PCB-126	80.2	10.0 - 145	
13C-PCB-155	103	10.0 - 145	
13C-PCB-156	103	10.0 - 145	
13C-PCB-157	103	10.0 - 145	
13C-PCB-167	98.1	10.0 - 145	
13C-PCB-169	98.6	10.0 - 145	
13C-PCB-188	106	10.0 - 145	
13C-PCB-189	122	10.0 - 145	
13C-PCB-202	120	10.0 - 145	
13C-PCB-205	110	10.0 - 145	
13C-PCB-206	91.8	10.0 - 145	
13C-PCB-208	125	10.0 - 145	
13C-PCB-209	112	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	117	5.00 - 145	
13C-PCB-111	91.7	10.0 - 145	
13C-PCB-178	123	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-013-SA
Client ID: LDW-Y1-SU-ENR-CA-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 4.99 g
% Solids: 82.86

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018
Total Conc: 76300

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	47.1	-			PCB-51	69.0	-		
PCB-2	4.46	-			PCB-52	3450	-	C	69
PCB-3	14.9	-			PCB-53	219	-		
PCB-4	164	-			PCB-54	3.19	-	J	
PCB-5	15.4	-			PCB-55	55.6	-		
PCB-6	124	-			PCB-56	890	-	C	60
PCB-7	27.4	-			PCB-57	14.7	-		
PCB-8	473	-			PCB-58	8.49	-		
PCB-9	23.4	-			PCB-59	-	-	C042	42
PCB-10	9.18	-			PCB-60	-	-	C056	56
PCB-11	14.7	-			PCB-61	2740	-	C	70
PCB-12	22.7	-			PCB-62	ND	0.692		
PCB-13	21.0	-			PCB-63	79.5	-		
PCB-14	ND	1.05			PCB-64	-	-	C041	41/71/72
PCB-15	232	-			PCB-65	ND	0.662		
PCB-16	270	-			PCB-66	1940	-	C	76
PCB-17	420	-			PCB-67	57.3	-		
PCB-18	921	-			PCB-68	15.1	-		
PCB-19	72.7	-			PCB-69	-	-	C052	52
PCB-20	541	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	301	-			PCB-72	-	-	C041	41/64/71
PCB-23	1.35	-	J		PCB-73	ND	0.768		
PCB-24	33.6	-			PCB-74	889	-		
PCB-25	90.6	-			PCB-75	-	-	C048	48
PCB-26	199	-			PCB-76	-	-	C066	66
PCB-27	47.8	-			PCB-77	166	-		
PCB-28	790	-			PCB-78	ND	0.801		
PCB-29	7.46	-			PCB-79	49.3	-		
PCB-30	ND	0.813			PCB-80	ND	0.609		
PCB-31	954	-			PCB-81	93.7	-		
PCB-32	302	-			PCB-82	521	-		
PCB-33	-	-	C020	20/21	PCB-83	189	-	C	112
PCB-34	8.19	-			PCB-84	1830	-	C	92
PCB-35	23.0	-			PCB-85	599	-	C	116
PCB-36	ND	0.629			PCB-86	ND	1.60		
PCB-37	290	-			PCB-87	1690	-	C	117/125
PCB-38	11.1	-			PCB-88	517	-	C	91
PCB-39	ND	0.716			PCB-89	48.5	-		
PCB-40	280	-			PCB-90	4370	-	C	101
PCB-41	1640	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	635	-	C	59	PCB-92	-	-	C084	84
PCB-43	1910	-	C	49	PCB-93	ND	1.22		
PCB-44	2190	-			PCB-94	15.7	-		
PCB-45	209	-			PCB-95	3400	-		
PCB-46	84.4	-			PCB-96	32.7	-		
PCB-47	479	-			PCB-97	1080	-		
PCB-48	368	-	C	75	PCB-98	ND	0.977	C	102
PCB-49	-	-	C043	43	PCB-99	1560	-		
PCB-50	5.63	-			PCB-100	13.1	-		

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EPA Method 1668
PCBs

FAL ID: 11719-013-SA
Client ID: LDW-Y1-SU-ENR-CA-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 4.99 g
% Solids: 82.86

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	755	-		
PCB-102	-	-	C098	98	PCB-152	5.66	-		
PCB-103	33.7	-			PCB-153	3220	-		
PCB-104	ND	0.781			PCB-154	53.0	-		
PCB-105	1620	-			PCB-155	ND	0.819		
PCB-106	4190	-	C	118	PCB-156	547	-		
PCB-107	272	-	C	108	PCB-157	113	-		
PCB-108	-	-	C107	107	PCB-158	525	-	C	160
PCB-109	ND	1.33			PCB-159	21.0	-		
PCB-110	4260	-			PCB-160	-	-	C158	158
PCB-111	80.7	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.54			PCB-163	-	-	C138	138/164
PCB-114	94.6	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	24.4	-		
PCB-117	-	-	C087	87/125	PCB-167	211	-		
PCB-118	-	-	C	106	PCB-168	ND	0.751		
PCB-119	77.6	-			PCB-169	ND	0.716		
PCB-120	7.08	-			PCB-170	749	-		
PCB-121	ND	0.888			PCB-171	216	-		
PCB-122	54.8	-			PCB-172	121	-		
PCB-123	43.6	-			PCB-173	23.3	-		
PCB-124	183	-			PCB-174	596	-		
PCB-125	-	-	C087	87/117	PCB-175	26.8	-		
PCB-126	18.0	-			PCB-176	88.5	-		
PCB-127	ND	0.971			PCB-177	420	-		
PCB-128	734	-	C	162	PCB-178	131	-		
PCB-129	272	-			PCB-179	252	-		
PCB-130	297	-			PCB-180	1080	-		
PCB-131	131	-	C	133	PCB-181	ND	1.34		
PCB-132	1270	-	C	161	PCB-182	657	-	C	187
PCB-133	-	-	C131	131	PCB-183	377	-		
PCB-134	230	-	C	143	PCB-184	ND	0.906		
PCB-135	436	-			PCB-185	63.4	-		
PCB-136	654	-			PCB-186	ND	0.965		
PCB-137	265	-			PCB-187	-	-	C182	182
PCB-138	3850	-	C	163/164	PCB-188	ND	1.11		
PCB-139	2790	-	C	149	PCB-189	29.5	-		
PCB-140	32.2	-			PCB-190	163	-		
PCB-141	725	-			PCB-191	39.5	-		
PCB-142	ND	1.07			PCB-192	ND	1.04		
PCB-143	-	-	C134	134	PCB-193	81.9	-		
PCB-144	214	-			PCB-194	204	-		
PCB-145	2.30	-	J		PCB-195	95.6	-		
PCB-146	481	-	C	165	PCB-196	364	-	C	203
PCB-147	87.2	-			PCB-197	15.1	-		
PCB-148	ND	1.16			PCB-198	21.8	-		
PCB-149	-	-	C139	139	PCB-199	350	-		
PCB-150	7.39	-			PCB-200	40.3	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-013-SA
Client ID: LDW-Y1-SU-ENR-CA-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 4.99 g
% Solids: 82.86

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	42.5	-		
PCB-202	51.9	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.21		
PCB-205	12.7	-		
PCB-206	103	-		
PCB-207	15.9	-		
PCB-208	27.5	-		
PCB-209	40.6	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	90.1	5.00 - 145	
13C-PCB-3	84.8	5.00 - 145	
13C-PCB-4	82.7	5.00 - 145	
13C-PCB-15	98.3	5.00 - 145	
13C-PCB-19	91.5	5.00 - 145	
13C-PCB-37	112	5.00 - 145	
13C-PCB-54	71.9	5.00 - 145	
13C-PCB-77	102	10.0 - 145	
13C-PCB-81	94.4	10.0 - 145	
13C-PCB-104	86.6	10.0 - 145	
13C-PCB-105	96.7	10.0 - 145	
13C-PCB-114	92.6	10.0 - 145	
13C-PCB-118	86.3	10.0 - 145	
13C-PCB-123	89.5	10.0 - 145	
13C-PCB-126	98.8	10.0 - 145	
13C-PCB-155	88.9	10.0 - 145	
13C-PCB-156	93.4	10.0 - 145	
13C-PCB-157	96.6	10.0 - 145	
13C-PCB-167	89.7	10.0 - 145	
13C-PCB-169	107	10.0 - 145	
13C-PCB-188	87.9	10.0 - 145	
13C-PCB-189	120	10.0 - 145	
13C-PCB-202	91.9	10.0 - 145	
13C-PCB-205	101	10.0 - 145	
13C-PCB-206	85.2	10.0 - 145	
13C-PCB-208	87.2	10.0 - 145	
13C-PCB-209	86.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	92.6	5.00 - 145	
13C-PCB-111	95.2	10.0 - 145	
13C-PCB-178	95.9	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-014-SA
Client ID: LDW-Y1-SU-ENR-CB-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.02 g
% Solids: 82.90

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018
Total Conc: 45000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	11.4	-			PCB-51	33.5	-		
PCB-2	2.11	-	J		PCB-52	1900	-	C	69
PCB-3	7.12	-			PCB-53	117	-		
PCB-4	72.4	-			PCB-54	2.17	-	J	
PCB-5	11.6	-			PCB-55	33.6	-		
PCB-6	74.5	-			PCB-56	533	-	C	60
PCB-7	11.2	-			PCB-57	6.58	-		
PCB-8	261	-			PCB-58	3.20	-	J	
PCB-9	14.9	-			PCB-59	-	-	C042	42
PCB-10	4.29	-			PCB-60	-	-	C056	56
PCB-11	9.89	-			PCB-61	1510	-	C	70
PCB-12	13.8	-			PCB-62	ND	0.811		
PCB-13	13.8	-			PCB-63	39.7	-		
PCB-14	ND	0.969			PCB-64	-	-	C041	41/71/72
PCB-15	122	-			PCB-65	ND	0.776		
PCB-16	125	-			PCB-66	1080	-	C	76
PCB-17	204	-			PCB-67	29.0	-		
PCB-18	450	-			PCB-68	10.1	-		
PCB-19	34.0	-			PCB-69	-	-	C052	52
PCB-20	308	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	183	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.784			PCB-73	ND	0.902		
PCB-24	21.8	-			PCB-74	482	-		
PCB-25	56.2	-			PCB-75	-	-	C048	48
PCB-26	118	-			PCB-76	-	-	C066	66
PCB-27	20.2	-			PCB-77	91.7	-		
PCB-28	496	-			PCB-78	ND	0.620		
PCB-29	4.74	-			PCB-79	35.8	-		
PCB-30	ND	0.713			PCB-80	ND	0.714		
PCB-31	544	-			PCB-81	61.1	-		
PCB-32	163	-			PCB-82	342	-		
PCB-33	-	-	C020	20/21	PCB-83	121	-	C	112
PCB-34	4.85	-			PCB-84	1160	-	C	92
PCB-35	12.1	-			PCB-85	415	-	C	116
PCB-36	ND	0.982			PCB-86	ND	1.78		
PCB-37	176	-			PCB-87	1090	-	C	117/125
PCB-38	7.19	-			PCB-88	352	-	C	91
PCB-39	ND	1.12			PCB-89	33.4	-		
PCB-40	173	-			PCB-90	2770	-	C	101
PCB-41	823	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	304	-	C	59	PCB-92	-	-	C084	84
PCB-43	963	-	C	49	PCB-93	ND	1.45		
PCB-44	1260	-			PCB-94	11.8	-		
PCB-45	105	-			PCB-95	2210	-		
PCB-46	42.4	-			PCB-96	22.3	-		
PCB-47	258	-			PCB-97	697	-		
PCB-48	175	-	C	75	PCB-98	ND	1.16	C	102
PCB-49	-	-	C043	43	PCB-99	1050	-		
PCB-50	3.10	-	J		PCB-100	8.67	-		

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EPA Method 1668
PCBs

FAL ID: 11719-014-SA
Client ID: LDW-Y1-SU-ENR-CB-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.02 g
% Solids: 82.90

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	380	-		
PCB-102	-	-	C098	98	PCB-152	4.32	-		
PCB-103	19.2	-			PCB-153	1740	-		
PCB-104	ND	0.929			PCB-154	30.0	-		
PCB-105	1070	-			PCB-155	ND	0.744		
PCB-106	2530	-	C	118	PCB-156	339	-		
PCB-107	169	-	C	108	PCB-157	74.7	-		
PCB-108	-	-	C107	107	PCB-158	313	-	C	160
PCB-109	ND	1.48			PCB-159	12.5	-		
PCB-110	2730	-			PCB-160	-	-	C158	158
PCB-111	59.0	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.72			PCB-163	-	-	C138	138/164
PCB-114	81.8	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	14.0	-		
PCB-117	-	-	C087	87/125	PCB-167	117	-		
PCB-118	-	-	C	106	PCB-168	ND	0.775		
PCB-119	45.1	-			PCB-169	ND	0.686		
PCB-120	5.50	-			PCB-170	483	-		
PCB-121	ND	1.06			PCB-171	127	-		
PCB-122	37.4	-			PCB-172	71.3	-		
PCB-123	39.4	-			PCB-173	12.8	-		
PCB-124	113	-			PCB-174	373	-		
PCB-125	-	-	C087	87/117	PCB-175	20.2	-		
PCB-126	10.2	-			PCB-176	49.3	-		
PCB-127	ND	0.976			PCB-177	249	-		
PCB-128	440	-	C	162	PCB-178	74.4	-		
PCB-129	169	-			PCB-179	152	-		
PCB-130	152	-			PCB-180	725	-		
PCB-131	69.8	-	C	133	PCB-181	ND	1.23		
PCB-132	705	-	C	161	PCB-182	402	-	C	187
PCB-133	-	-	C131	131	PCB-183	238	-		
PCB-134	138	-	C	143	PCB-184	ND	0.837		
PCB-135	244	-			PCB-185	43.2	-		
PCB-136	384	-			PCB-186	ND	0.892		
PCB-137	177	-			PCB-187	-	-	C182	182
PCB-138	2150	-	C	163/164	PCB-188	ND	1.04		
PCB-139	1530	-	C	149	PCB-189	17.0	-		
PCB-140	ND	0.931			PCB-190	106	-		
PCB-141	405	-			PCB-191	19.8	-		
PCB-142	ND	1.10			PCB-192	ND	0.960		
PCB-143	-	-	C134	134	PCB-193	52.7	-		
PCB-144	91.7	-			PCB-194	153	-		
PCB-145	1.48	-	J		PCB-195	62.3	-		
PCB-146	272	-	C	165	PCB-196	250	-	C	203
PCB-147	48.1	-			PCB-197	8.04	-		
PCB-148	ND	1.05			PCB-198	14.4	-		
PCB-149	-	-	C139	139	PCB-199	215	-		
PCB-150	4.60	-			PCB-200	26.5	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-014-SA
Client ID: LDW-Y1-SU-ENR-CB-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.02 g
% Solids: 82.90

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	30.8	-		
PCB-202	38.5	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.03		
PCB-205	7.72	-		
PCB-206	69.1	-		
PCB-207	9.81	-		
PCB-208	17.0	-		
PCB-209	25.0	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	93.5	5.00 - 145	
13C-PCB-3	86.6	5.00 - 145	
13C-PCB-4	85.0	5.00 - 145	
13C-PCB-15	94.3	5.00 - 145	
13C-PCB-19	87.8	5.00 - 145	
13C-PCB-37	114	5.00 - 145	
13C-PCB-54	81.9	5.00 - 145	
13C-PCB-77	99.6	10.0 - 145	
13C-PCB-81	94.8	10.0 - 145	
13C-PCB-104	84.9	10.0 - 145	
13C-PCB-105	94.6	10.0 - 145	
13C-PCB-114	92.8	10.0 - 145	
13C-PCB-118	89.0	10.0 - 145	
13C-PCB-123	90.0	10.0 - 145	
13C-PCB-126	101	10.0 - 145	
13C-PCB-155	86.4	10.0 - 145	
13C-PCB-156	95.6	10.0 - 145	
13C-PCB-157	99.1	10.0 - 145	
13C-PCB-167	91.9	10.0 - 145	
13C-PCB-169	115	10.0 - 145	
13C-PCB-188	88.4	10.0 - 145	
13C-PCB-189	109	10.0 - 145	
13C-PCB-202	89.8	10.0 - 145	
13C-PCB-205	89.9	10.0 - 145	
13C-PCB-206	80.1	10.0 - 145	
13C-PCB-208	75.2	10.0 - 145	
13C-PCB-209	77.4	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	101	5.00 - 145	
13C-PCB-111	92.5	10.0 - 145	
13C-PCB-178	98.3	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-015-SA
Client ID: LDW-Y1-SU-ENR-CC-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.03 g
% Solids: 83.46

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018
Total Conc: 26800

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	24.4	-			PCB-51	27.6	-		
PCB-2	2.86	-	J		PCB-52	834	-	C	69
PCB-3	24.8	-			PCB-53	82.9	-		
PCB-4	69.7	-			PCB-54	1.38	-	J	
PCB-5	11.9	-			PCB-55	18.2	-		
PCB-6	77.8	-			PCB-56	344	-	C	60
PCB-7	17.0	-			PCB-57	6.15	-		
PCB-8	283	-			PCB-58	6.55	-		
PCB-9	13.9	-			PCB-59	-	-	C042	42
PCB-10	5.19	-			PCB-60	-	-	C056	56
PCB-11	8.67	-			PCB-61	729	-	C	70
PCB-12	14.5	-			PCB-62	ND	0.930		
PCB-13	16.0	-			PCB-63	30.1	-		
PCB-14	ND	0.893			PCB-64	-	-	C041	41/71/72
PCB-15	127	-			PCB-65	ND	0.889		
PCB-16	122	-			PCB-66	755	-	C	76
PCB-17	194	-			PCB-67	22.8	-		
PCB-18	427	-			PCB-68	12.6	-		
PCB-19	31.8	-			PCB-69	-	-	C052	52
PCB-20	246	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	145	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	0.667			PCB-73	ND	1.03		
PCB-24	18.7	-			PCB-74	320	-		
PCB-25	48.1	-			PCB-75	-	-	C048	48
PCB-26	102	-			PCB-76	-	-	C066	66
PCB-27	18.2	-			PCB-77	62.8	-		
PCB-28	385	-			PCB-78	ND	0.695		
PCB-29	3.57	-	J		PCB-79	19.5	-		
PCB-30	ND	0.692			PCB-80	ND	0.818		
PCB-31	447	-			PCB-81	22.2	-		
PCB-32	152	-			PCB-82	126	-		
PCB-33	-	-	C020	20/21	PCB-83	60.3	-	C	112
PCB-34	4.50	-			PCB-84	522	-	C	92
PCB-35	10.4	-			PCB-85	164	-	C	116
PCB-36	ND	0.836			PCB-86	ND	0.985		
PCB-37	137	-			PCB-87	385	-	C	117/125
PCB-38	5.86	-			PCB-88	150	-	C	91
PCB-39	ND	0.951			PCB-89	14.6	-		
PCB-40	112	-			PCB-90	1290	-	C	101
PCB-41	578	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	250	-	C	59	PCB-92	-	-	C084	84
PCB-43	767	-	C	49	PCB-93	ND	1.09		
PCB-44	649	-			PCB-94	5.89	-		
PCB-45	86.9	-			PCB-95	885	-		
PCB-46	33.4	-			PCB-96	9.38	-		
PCB-47	225	-			PCB-97	302	-		
PCB-48	141	-	C	75	PCB-98	ND	0.873	C	102
PCB-49	-	-	C043	43	PCB-99	556	-		
PCB-50	2.81	-	J		PCB-100	6.59	-		

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EPA Method 1668
PCBs

FAL ID: 11719-015-SA
Client ID: LDW-Y1-SU-ENR-CC-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.03 g
% Solids: 83.46

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	305	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.636		
PCB-103	20.6	-			PCB-153	1200	-		
PCB-104	ND	0.698			PCB-154	28.4	-		
PCB-105	368	-			PCB-155	ND	0.544		
PCB-106	1170	-	C	118	PCB-156	141	-		
PCB-107	95.3	-	C	108	PCB-157	28.5	-		
PCB-108	-	-	C107	107	PCB-158	154	-	C	160
PCB-109	ND	0.818			PCB-159	11.2	-		
PCB-110	1210	-			PCB-160	-	-	C158	158
PCB-111	20.3	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.951			PCB-163	-	-	C138	138/164
PCB-114	25.6	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	6.29	-		
PCB-117	-	-	C087	87/125	PCB-167	56.7	-		
PCB-118	-	-	C	106	PCB-168	ND	1.04		
PCB-119	46.9	-			PCB-169	ND	0.902		
PCB-120	ND	0.760			PCB-170	381	-		
PCB-121	ND	0.793			PCB-171	104	-		
PCB-122	13.8	-			PCB-172	64.7	-		
PCB-123	13.5	-			PCB-173	10.2	-		
PCB-124	40.6	-			PCB-174	344	-		
PCB-125	-	-	C087	87/117	PCB-175	17.8	-		
PCB-126	4.64	-			PCB-176	50.4	-		
PCB-127	ND	0.846			PCB-177	235	-		
PCB-128	202	-	C	162	PCB-178	79.9	-		
PCB-129	66.9	-			PCB-179	152	-		
PCB-130	80.8	-			PCB-180	648	-		
PCB-131	40.5	-	C	133	PCB-181	ND	0.933		
PCB-132	405	-	C	161	PCB-182	443	-	C	187
PCB-133	-	-	C131	131	PCB-183	223	-		
PCB-134	70.5	-	C	143	PCB-184	ND	0.633		
PCB-135	159	-			PCB-185	41.7	-		
PCB-136	229	-			PCB-186	ND	0.674		
PCB-137	69.5	-			PCB-187	-	-	C182	182
PCB-138	1180	-	C	163/164	PCB-188	ND	0.787		
PCB-139	1040	-	C	149	PCB-189	13.0	-		
PCB-140	13.6	-			PCB-190	82.3	-		
PCB-141	222	-			PCB-191	17.7	-		
PCB-142	ND	1.48			PCB-192	ND	0.726		
PCB-143	-	-	C134	134	PCB-193	49.2	-		
PCB-144	58.8	-			PCB-194	176	-		
PCB-145	ND	0.608			PCB-195	67.7	-		
PCB-146	207	-	C	165	PCB-196	254	-	C	203
PCB-147	24.4	-			PCB-197	8.80	-		
PCB-148	ND	0.768			PCB-198	11.6	-		
PCB-149	-	-	C139	139	PCB-199	244	-		
PCB-150	4.36	-			PCB-200	29.1	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-015-SA
Client ID: LDW-Y1-SU-ENR-CC-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.03 g
% Solids: 83.46

ICal: DAILY209FAL4-7-31-18
GC Column: DB1MS
Units: pg/g

Acquired: 07-31-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	32.0	-		
PCB-202	39.7	-		
PCB-203	-	-	C196	196
PCB-204	ND	1.01		
PCB-205	9.40	-		
PCB-206	79.8	-		
PCB-207	10.3	-		
PCB-208	19.1	-		
PCB-209	36.6	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	92.6	5.00 - 145	
13C-PCB-3	89.1	5.00 - 145	
13C-PCB-4	84.8	5.00 - 145	
13C-PCB-15	96.6	5.00 - 145	
13C-PCB-19	87.9	5.00 - 145	
13C-PCB-37	116	5.00 - 145	
13C-PCB-54	79.7	5.00 - 145	
13C-PCB-77	102	10.0 - 145	
13C-PCB-81	95.4	10.0 - 145	
13C-PCB-104	88.7	10.0 - 145	
13C-PCB-105	103	10.0 - 145	
13C-PCB-114	99.2	10.0 - 145	
13C-PCB-118	90.7	10.0 - 145	
13C-PCB-123	97.0	10.0 - 145	
13C-PCB-126	106	10.0 - 145	
13C-PCB-155	86.2	10.0 - 145	
13C-PCB-156	95.6	10.0 - 145	
13C-PCB-157	101	10.0 - 145	
13C-PCB-167	93.7	10.0 - 145	
13C-PCB-169	108	10.0 - 145	
13C-PCB-188	89.0	10.0 - 145	
13C-PCB-189	112	10.0 - 145	
13C-PCB-202	92.4	10.0 - 145	
13C-PCB-205	93.0	10.0 - 145	
13C-PCB-206	83.5	10.0 - 145	
13C-PCB-208	77.1	10.0 - 145	
13C-PCB-209	79.5	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	99.0	5.00 - 145	
13C-PCB-111	95.0	10.0 - 145	
13C-PCB-178	98.2	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-016-SA
Client ID: LDW-Y1-SU-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.06 g
% Solids: 76.83

ICal: DAILY209FAL4-8-1-18
GC Column: DB1MS
Units: pg/g

Acquired: 08-01-2018
Total Conc: 48500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	31.4	-			PCB-51	43.4	-		
PCB-2	6.73	-			PCB-52	1340	-	C	69
PCB-3	26.4	-			PCB-53	131	-		
PCB-4	97.1	-			PCB-54	2.48	-	J	
PCB-5	5.74	-			PCB-55	22.6	-		
PCB-6	119	-			PCB-56	644	-	C	60
PCB-7	13.4	-			PCB-57	7.99	-		
PCB-8	348	-			PCB-58	5.54	-		
PCB-9	19.0	-			PCB-59	-	-	C042	42
PCB-10	6.33	-			PCB-60	-	-	C056	56
PCB-11	13.5	-			PCB-61	1190	-	C	70
PCB-12	21.4	-			PCB-62	ND	0.765		
PCB-13	19.3	-			PCB-63	44.7	-		
PCB-14	ND	1.01			PCB-64	-	-	C041	41/71/72
PCB-15	185	-			PCB-65	ND	0.840		
PCB-16	193	-			PCB-66	1090	-	C	76
PCB-17	314	-			PCB-67	42.1	-		
PCB-18	692	-			PCB-68	9.27	-		
PCB-19	46.5	-			PCB-69	-	-	C052	52
PCB-20	491	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	303	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.25			PCB-73	ND	0.753		
PCB-24	32.5	-			PCB-74	523	-		
PCB-25	90.6	-			PCB-75	-	-	C048	48
PCB-26	204	-			PCB-76	-	-	C066	66
PCB-27	28.2	-			PCB-77	103	-		
PCB-28	877	-			PCB-78	ND	1.05		
PCB-29	7.85	-			PCB-79	17.6	-		
PCB-30	ND	0.985			PCB-80	ND	0.696		
PCB-31	762	-			PCB-81	27.0	-		
PCB-32	233	-			PCB-82	289	-		
PCB-33	-	-	C020	20/21	PCB-83	122	-	C	112
PCB-34	9.68	-			PCB-84	1070	-	C	92
PCB-35	17.0	-			PCB-85	372	-	C	116
PCB-36	ND	1.35			PCB-86	ND	1.76		
PCB-37	240	-			PCB-87	846	-	C	117/125
PCB-38	4.28	-			PCB-88	268	-	C	91
PCB-39	ND	1.30			PCB-89	31.1	-		
PCB-40	125	-			PCB-90	2510	-	C	101
PCB-41	690	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	321	-	C	59	PCB-92	-	-	C084	84
PCB-43	1040	-	C	49	PCB-93	ND	1.16		
PCB-44	924	-			PCB-94	9.23	-		
PCB-45	133	-			PCB-95	1530	-		
PCB-46	55.9	-			PCB-96	14.4	-		
PCB-47	241	-			PCB-97	637	-		
PCB-48	246	-	C	75	PCB-98	ND	0.933	C	102
PCB-49	-	-	C043	43	PCB-99	1090	-		
PCB-50	3.49	-	J		PCB-100	11.4	-		

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EPA Method 1668
PCBs

FAL ID: 11719-016-SA
Client ID: LDW-Y1-SU-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.06 g
% Solids: 76.83

ICal: DAILY209FAL4-8-1-18
GC Column: DB1MS
Units: pg/g

Acquired: 08-01-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	664	-		
PCB-102	-	-	C098	98	PCB-152	3.15	-	J	
PCB-103	35.7	-			PCB-153	2370	-		
PCB-104	ND	0.744			PCB-154	54.5	-		
PCB-105	799	-			PCB-155	ND	0.595		
PCB-106	1990	-	C	118	PCB-156	273	-		
PCB-107	165	-	C	108	PCB-157	53.9	-		
PCB-108	-	-	C107	107	PCB-158	263	-	C	160
PCB-109	ND	1.28			PCB-159	25.4	-		
PCB-110	2140	-			PCB-160	-	-	C158	158
PCB-111	38.4	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.45			PCB-163	-	-	C138	138/164
PCB-114	50.9	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	11.1	-		
PCB-117	-	-	C087	87/125	PCB-167	109	-		
PCB-118	-	-	C	106	PCB-168	ND	0.940		
PCB-119	75.0	-			PCB-169	ND	1.01		
PCB-120	4.96	-			PCB-170	729	-		
PCB-121	ND	0.762			PCB-171	200	-		
PCB-122	23.4	-			PCB-172	132	-		
PCB-123	28.3	-			PCB-173	16.4	-		
PCB-124	89.1	-			PCB-174	676	-		
PCB-125	-	-	C087	87/117	PCB-175	30.2	-		
PCB-126	8.86	-			PCB-176	105	-		
PCB-127	ND	1.35			PCB-177	469	-		
PCB-128	388	-	C	162	PCB-178	156	-		
PCB-129	119	-			PCB-179	327	-		
PCB-130	170	-			PCB-180	1240	-		
PCB-131	80.3	-	C	133	PCB-181	ND	1.02		
PCB-132	724	-	C	161	PCB-182	873	-	C	187
PCB-133	-	-	C131	131	PCB-183	437	-		
PCB-134	129	-	C	143	PCB-184	ND	0.721		
PCB-135	354	-			PCB-185	77.4	-		
PCB-136	406	-			PCB-186	ND	0.789		
PCB-137	113	-			PCB-187	-	-	C182	182
PCB-138	2320	-	C	163/164	PCB-188	ND	0.738		
PCB-139	2070	-	C	149	PCB-189	25.5	-		
PCB-140	21.4	-			PCB-190	171	-		
PCB-141	442	-			PCB-191	31.1	-		
PCB-142	ND	1.43			PCB-192	ND	0.830		
PCB-143	-	-	C134	134	PCB-193	96.6	-		
PCB-144	132	-			PCB-194	407	-		
PCB-145	ND	0.675			PCB-195	173	-		
PCB-146	398	-	C	165	PCB-196	524	-	C	203
PCB-147	49.1	-			PCB-197	19.3	-		
PCB-148	ND	0.882			PCB-198	26.5	-		
PCB-149	-	-	C139	139	PCB-199	449	-		
PCB-150	6.75	-			PCB-200	63.3	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-016-SA
Client ID: LDW-Y1-SU-ENR+AC-CA-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.06 g
% Solids: 76.83

ICal: DAILY209FAL4-8-1-18
GC Column: DB1MS
Units: pg/g

Acquired: 08-01-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	69.1	-		
PCB-202	88.2	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.925		
PCB-205	21.0	-		
PCB-206	167	-		
PCB-207	26.1	-		
PCB-208	51.0	-		
PCB-209	130	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	85.2	5.00 - 145	
13C-PCB-3	84.4	5.00 - 145	
13C-PCB-4	85.9	5.00 - 145	
13C-PCB-15	99.7	5.00 - 145	
13C-PCB-19	92.8	5.00 - 145	
13C-PCB-37	86.6	5.00 - 145	
13C-PCB-54	87.0	5.00 - 145	
13C-PCB-77	97.9	10.0 - 145	
13C-PCB-81	93.1	10.0 - 145	
13C-PCB-104	102	10.0 - 145	
13C-PCB-105	93.5	10.0 - 145	
13C-PCB-114	82.9	10.0 - 145	
13C-PCB-118	88.6	10.0 - 145	
13C-PCB-123	96.3	10.0 - 145	
13C-PCB-126	92.7	10.0 - 145	
13C-PCB-155	88.6	10.0 - 145	
13C-PCB-156	98.2	10.0 - 145	
13C-PCB-157	94.7	10.0 - 145	
13C-PCB-167	93.2	10.0 - 145	
13C-PCB-169	101	10.0 - 145	
13C-PCB-188	95.6	10.0 - 145	
13C-PCB-189	98.4	10.0 - 145	
13C-PCB-202	89.1	10.0 - 145	
13C-PCB-205	91.4	10.0 - 145	
13C-PCB-206	86.7	10.0 - 145	
13C-PCB-208	80.4	10.0 - 145	
13C-PCB-209	87.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	87.7	5.00 - 145	
13C-PCB-111	98.3	10.0 - 145	
13C-PCB-178	96.5	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FAL ID: 11719-017-SA
Client ID: LDW-Y1-SU-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 4.99 g
% Solids: 80.16

ICal: DAILY209FAL4-8-1-18
GC Column: DB1MS
Units: pg/g

Acquired: 08-01-2018
Total Conc: 31100

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	11.3	-			PCB-51	33.8	-		
PCB-2	2.54	-	J		PCB-52	942	-	C	69
PCB-3	7.63	-			PCB-53	99.4	-		
PCB-4	54.9	-			PCB-54	1.71	-	J	
PCB-5	4.67	-			PCB-55	19.2	-		
PCB-6	75.5	-			PCB-56	501	-	C	60
PCB-7	15.5	-			PCB-57	5.93	-		
PCB-8	266	-			PCB-58	3.53	-	J	
PCB-9	10.7	-			PCB-59	-	-	C042	42
PCB-10	5.15	-			PCB-60	-	-	C056	56
PCB-11	14.0	-			PCB-61	928	-	C	70
PCB-12	8.91	-			PCB-62	ND	0.844		
PCB-13	25.1	-			PCB-63	34.5	-		
PCB-14	ND	0.810			PCB-64	-	-	C041	41/71/72
PCB-15	161	-			PCB-65	ND	0.927		
PCB-16	130	-			PCB-66	812	-	C	76
PCB-17	219	-			PCB-67	29.4	-		
PCB-18	457	-			PCB-68	6.13	-		
PCB-19	33.0	-			PCB-69	-	-	C052	52
PCB-20	420	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	252	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.01			PCB-73	ND	0.831		
PCB-24	20.6	-			PCB-74	405	-		
PCB-25	76.5	-			PCB-75	-	-	C048	48
PCB-26	157	-			PCB-76	-	-	C066	66
PCB-27	21.4	-			PCB-77	78.0	-		
PCB-28	718	-			PCB-78	ND	0.894		
PCB-29	6.88	-			PCB-79	12.4	-		
PCB-30	ND	3.01			PCB-80	ND	0.768		
PCB-31	696	-			PCB-81	19.0	-		
PCB-32	155	-			PCB-82	191	-		
PCB-33	-	-	C020	20/21	PCB-83	70.9	-	C	112
PCB-34	6.90	-			PCB-84	622	-	C	92
PCB-35	15.3	-			PCB-85	238	-	C	116
PCB-36	ND	1.09			PCB-86	ND	0.909		
PCB-37	198	-			PCB-87	555	-	C	117/125
PCB-38	ND	1.06			PCB-88	174	-	C	91
PCB-39	ND	1.04			PCB-89	20.0	-		
PCB-40	101	-			PCB-90	1540	-	C	101
PCB-41	513	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	227	-	C	59	PCB-92	-	-	C084	84
PCB-43	726	-	C	49	PCB-93	ND	1.01		
PCB-44	684	-			PCB-94	6.16	-		
PCB-45	103	-			PCB-95	917	-		
PCB-46	40.0	-			PCB-96	9.45	-		
PCB-47	190	-			PCB-97	390	-		
PCB-48	177	-	C	75	PCB-98	ND	0.810	C	102
PCB-49	-	-	C043	43	PCB-99	636	-		
PCB-50	3.24	-	J		PCB-100	6.63	-		

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EPA Method 1668
PCBs

FAL ID: 11719-017-SA
Client ID: LDW-Y1-SU-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 4.99 g
% Solids: 80.16

ICal: DAILY209FAL4-8-1-18
GC Column: DB1MS
Units: pg/g

Acquired: 08-01-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	360	-		
PCB-102	-	-	C098	98	PCB-152	2.50	-	J	
PCB-103	16.1	-			PCB-153	1380	-		
PCB-104	ND	0.646			PCB-154	25.0	-		
PCB-105	553	-			PCB-155	ND	0.545		
PCB-106	1280	-	C	118	PCB-156	179	-		
PCB-107	102	-	C	108	PCB-157	35.2	-		
PCB-108	-	-	C107	107	PCB-158	176	-	C	160
PCB-109	ND	0.659			PCB-159	14.3	-		
PCB-110	1310	-			PCB-160	-	-	C158	158
PCB-111	29.6	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	0.748			PCB-163	-	-	C138	138/164
PCB-114	33.6	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	6.16	-		
PCB-117	-	-	C087	87/125	PCB-167	67.3	-		
PCB-118	-	-	C	106	PCB-168	ND	0.992		
PCB-119	35.6	-			PCB-169	ND	1.05		
PCB-120	2.88	-	J		PCB-170	435	-		
PCB-121	ND	0.662			PCB-171	118	-		
PCB-122	16.2	-			PCB-172	71.6	-		
PCB-123	15.3	-			PCB-173	8.72	-		
PCB-124	59.7	-			PCB-174	363	-		
PCB-125	-	-	C087	87/117	PCB-175	16.2	-		
PCB-126	7.21	-			PCB-176	52.2	-		
PCB-127	ND	1.21			PCB-177	260	-		
PCB-128	254	-	C	162	PCB-178	86.9	-		
PCB-129	78.6	-			PCB-179	176	-		
PCB-130	94.3	-			PCB-180	708	-		
PCB-131	47.1	-	C	133	PCB-181	ND	0.960		
PCB-132	441	-	C	161	PCB-182	477	-	C	187
PCB-133	-	-	C131	131	PCB-183	239	-		
PCB-134	81.6	-	C	143	PCB-184	ND	0.677		
PCB-135	198	-			PCB-185	47.6	-		
PCB-136	230	-			PCB-186	ND	0.740		
PCB-137	74.6	-			PCB-187	-	-	C182	182
PCB-138	1430	-	C	163/164	PCB-188	ND	0.763		
PCB-139	1170	-	C	149	PCB-189	15.6	-		
PCB-140	ND	1.29			PCB-190	99.4	-		
PCB-141	276	-			PCB-191	18.3	-		
PCB-142	ND	1.51			PCB-192	ND	0.779		
PCB-143	-	-	C134	134	PCB-193	48.2	-		
PCB-144	69.5	-			PCB-194	202	-		
PCB-145	ND	0.619			PCB-195	87.3	-		
PCB-146	206	-	C	165	PCB-196	294	-	C	203
PCB-147	28.4	-			PCB-197	9.41	-		
PCB-148	ND	0.809			PCB-198	14.0	-		
PCB-149	-	-	C139	139	PCB-199	248	-		
PCB-150	4.08	-			PCB-200	34.7	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-017-SA
Client ID: LDW-Y1-SU-ENR+AC-CB-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 4.99 g
% Solids: 80.16

ICal: DAILY209FAL4-8-1-18
GC Column: DB1MS
Units: pg/g

Acquired: 08-01-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	35.0	-		
PCB-202	47.0	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.763		
PCB-205	10.6	-		
PCB-206	81.0	-		
PCB-207	12.1	-		
PCB-208	19.8	-		
PCB-209	27.4	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	83.5	5.00 - 145	
13C-PCB-3	83.8	5.00 - 145	
13C-PCB-4	84.7	5.00 - 145	
13C-PCB-15	90.0	5.00 - 145	
13C-PCB-19	89.5	5.00 - 145	
13C-PCB-37	77.9	5.00 - 145	
13C-PCB-54	77.4	5.00 - 145	
13C-PCB-77	90.9	10.0 - 145	
13C-PCB-81	88.2	10.0 - 145	
13C-PCB-104	97.2	10.0 - 145	
13C-PCB-105	88.1	10.0 - 145	
13C-PCB-114	86.6	10.0 - 145	
13C-PCB-118	77.4	10.0 - 145	
13C-PCB-123	88.5	10.0 - 145	
13C-PCB-126	90.6	10.0 - 145	
13C-PCB-155	80.8	10.0 - 145	
13C-PCB-156	91.4	10.0 - 145	
13C-PCB-157	87.4	10.0 - 145	
13C-PCB-167	88.1	10.0 - 145	
13C-PCB-169	95.1	10.0 - 145	
13C-PCB-188	85.5	10.0 - 145	
13C-PCB-189	94.3	10.0 - 145	
13C-PCB-202	80.2	10.0 - 145	
13C-PCB-205	89.8	10.0 - 145	
13C-PCB-206	83.6	10.0 - 145	
13C-PCB-208	89.2	10.0 - 145	
13C-PCB-209	82.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	91.5	5.00 - 145	
13C-PCB-111	95.8	10.0 - 145	
13C-PCB-178	96.9	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-018-SA
Client ID: LDW-Y1-SU-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 73.94

ICal: DAILY209FAL4-8-1-18
GC Column: DB1MS
Units: pg/g

Acquired: 08-01-2018
Total Conc: 40600

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	28.0	-			PCB-51	35.3	-		
PCB-2	3.95	-	J		PCB-52	1140	-	C	69
PCB-3	21.8	-			PCB-53	106	-		
PCB-4	67.5	-			PCB-54	1.83	-	J	
PCB-5	5.34	-			PCB-55	19.2	-		
PCB-6	71.7	-			PCB-56	528	-	C	60
PCB-7	12.9	-			PCB-57	6.97	-		
PCB-8	245	-			PCB-58	5.41	-		
PCB-9	22.4	-			PCB-59	-	-	C042	42
PCB-10	5.89	-			PCB-60	-	-	C056	56
PCB-11	13.8	-			PCB-61	1050	-	C	70
PCB-12	25.0	-			PCB-62	ND	1.08		
PCB-13	10.0	-			PCB-63	39.9	-		
PCB-14	ND	1.11			PCB-64	-	-	C041	41/71/72
PCB-15	128	-			PCB-65	ND	1.19		
PCB-16	118	-			PCB-66	886	-	C	76
PCB-17	206	-			PCB-67	35.7	-		
PCB-18	435	-			PCB-68	11.2	-		
PCB-19	33.0	-			PCB-69	-	-	C052	52
PCB-20	423	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	254	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.26			PCB-73	ND	1.07		
PCB-24	16.8	-			PCB-74	439	-		
PCB-25	82.9	-			PCB-75	-	-	C048	48
PCB-26	174	-			PCB-76	-	-	C066	66
PCB-27	23.5	-			PCB-77	75.0	-		
PCB-28	750	-			PCB-78	ND	1.40		
PCB-29	6.54	-			PCB-79	18.8	-		
PCB-30	ND	1.00			PCB-80	5.51	-		
PCB-31	686	-			PCB-81	20.3	-		
PCB-32	152	-			PCB-82	225	-		
PCB-33	-	-	C020	20/21	PCB-83	86.8	-	C	112
PCB-34	7.64	-			PCB-84	816	-	C	92
PCB-35	18.1	-			PCB-85	278	-	C	116
PCB-36	ND	1.36			PCB-86	ND	1.82		
PCB-37	169	-			PCB-87	602	-	C	117/125
PCB-38	ND	1.32			PCB-88	231	-	C	91
PCB-39	ND	1.31			PCB-89	24.4	-		
PCB-40	95.6	-			PCB-90	1970	-	C	101
PCB-41	486	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	226	-	C	59	PCB-92	-	-	C084	84
PCB-43	898	-	C	49	PCB-93	ND	1.18		
PCB-44	712	-			PCB-94	7.94	-		
PCB-45	98.1	-			PCB-95	1280	-		
PCB-46	40.3	-			PCB-96	9.45	-		
PCB-47	203	-			PCB-97	457	-		
PCB-48	189	-	C	75	PCB-98	ND	0.943	C	102
PCB-49	-	-	C043	43	PCB-99	866	-		
PCB-50	3.94	-	J		PCB-100	11.2	-		

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EPA Method 1668
PCBs

FAL ID: 11719-018-SA
Client ID: LDW-Y1-SU-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
Date Received: 07-10-2018
Amount: 5.00 g
% Solids: 73.94

ICal: DAILY209FAL4-8-1-18
GC Column: DB1MS
Units: pg/g

Acquired: 08-01-2018

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	634	-		
PCB-102	-	-	C098	98	PCB-152	ND	0.953		
PCB-103	39.9	-			PCB-153	2160	-		
PCB-104	ND	0.752			PCB-154	68.7	-		
PCB-105	609	-			PCB-155	ND	0.830		
PCB-106	1580	-	C	118	PCB-156	205	-		
PCB-107	142	-	C	108	PCB-157	41.4	-		
PCB-108	-	-	C107	107	PCB-158	220	-	C	160
PCB-109	ND	1.32			PCB-159	27.0	-		
PCB-110	1590	-			PCB-160	-	-	C158	158
PCB-111	21.4	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.50			PCB-163	-	-	C138	138/164
PCB-114	35.7	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	7.71	-		
PCB-117	-	-	C087	87/125	PCB-167	77.6	-		
PCB-118	-	-	C	106	PCB-168	ND	1.09		
PCB-119	67.4	-			PCB-169	ND	1.18		
PCB-120	ND	1.38			PCB-170	652	-		
PCB-121	ND	0.770			PCB-171	185	-		
PCB-122	22.0	-			PCB-172	120	-		
PCB-123	23.7	-			PCB-173	13.4	-		
PCB-124	66.3	-			PCB-174	603	-		
PCB-125	-	-	C087	87/117	PCB-175	29.4	-		
PCB-126	7.27	-			PCB-176	103	-		
PCB-127	ND	1.38			PCB-177	441	-		
PCB-128	313	-	C	162	PCB-178	155	-		
PCB-129	91.1	-			PCB-179	306	-		
PCB-130	154	-			PCB-180	1170	-		
PCB-131	75.1	-	C	133	PCB-181	ND	0.834		
PCB-132	627	-	C	161	PCB-182	878	-	C	187
PCB-133	-	-	C131	131	PCB-183	407	-		
PCB-134	114	-	C	143	PCB-184	ND	0.588		
PCB-135	317	-			PCB-185	67.7	-		
PCB-136	350	-			PCB-186	ND	0.643		
PCB-137	90.4	-			PCB-187	-	-	C182	182
PCB-138	1970	-	C	163/164	PCB-188	3.26	-	J	
PCB-139	1910	-	C	149	PCB-189	23.9	-		
PCB-140	30.1	-			PCB-190	147	-		
PCB-141	353	-			PCB-191	32.7	-		
PCB-142	ND	1.66			PCB-192	ND	0.677		
PCB-143	-	-	C134	134	PCB-193	93.0	-		
PCB-144	112	-			PCB-194	379	-		
PCB-145	ND	0.942			PCB-195	158	-		
PCB-146	406	-	C	165	PCB-196	506	-	C	203
PCB-147	44.9	-			PCB-197	18.6	-		
PCB-148	ND	1.23			PCB-198	20.1	-		
PCB-149	-	-	C139	139	PCB-199	435	-		
PCB-150	7.78	-			PCB-200	57.8	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 11719-018-SA
Client ID: LDW-Y1-SU-ENR+AC-CC-CORE
Matrix: Sediment
Batch No: X4591

Date Extracted: 07-27-2018
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Amount: 5.00 g
% Solids: 73.94

ICal: DAILY209FAL4-8-1-18
GC Column: DB1MS
Units: pg/g

Acquired: 08-01-2018

Compound	Conc	DL	Qual	Coeluters
PCB-201	64.4	-		
PCB-202	85.7	-		
PCB-203	-	-	C196	196
PCB-204	ND	0.894		
PCB-205	20.3	-		
PCB-206	173	-		
PCB-207	25.6	-		
PCB-208	49.9	-		
PCB-209	108	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	88.2	5.00 - 145	
13C-PCB-3	87.3	5.00 - 145	
13C-PCB-4	89.5	5.00 - 145	
13C-PCB-15	96.0	5.00 - 145	
13C-PCB-19	102	5.00 - 145	
13C-PCB-37	76.9	5.00 - 145	
13C-PCB-54	88.0	5.00 - 145	
13C-PCB-77	102	10.0 - 145	
13C-PCB-81	95.4	10.0 - 145	
13C-PCB-104	106	10.0 - 145	
13C-PCB-105	99.4	10.0 - 145	
13C-PCB-114	97.0	10.0 - 145	
13C-PCB-118	95.9	10.0 - 145	
13C-PCB-123	108	10.0 - 145	
13C-PCB-126	102	10.0 - 145	
13C-PCB-155	93.3	10.0 - 145	
13C-PCB-156	101	10.0 - 145	
13C-PCB-157	98.2	10.0 - 145	
13C-PCB-167	99.4	10.0 - 145	
13C-PCB-169	102	10.0 - 145	
13C-PCB-188	97.3	10.0 - 145	
13C-PCB-189	104	10.0 - 145	
13C-PCB-202	91.2	10.0 - 145	
13C-PCB-205	95.0	10.0 - 145	
13C-PCB-206	91.2	10.0 - 145	
13C-PCB-208	92.0	10.0 - 145	
13C-PCB-209	88.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	91.4	5.00 - 145	
13C-PCB-111	95.3	10.0 - 145	
13C-PCB-178	94.8	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: [signature]

Date: 8/7/2018

Reviewed By: DPV

Date: 8/7/2018

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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.: 11719

Temperature: 1 °C

Chain of Custody

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Please Print in Pen **Page** 1 **of** 2

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: Diane Shannon and Crystal Thimsen	P.O. #: C013106435
Address: 601 Union Street, 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: diane.shannon@woodplc.com & crystal.thimsen@woodplc.com	TAT (business days): ✓ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
	(781)724 1019	* 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 format should be as developed with Floyd|Snider and Saylor Data Solutions
✓ 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:

	Sample ID	Date Collected	Time Collected	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-IN-ENR-CA-CORE	7/6/18	1345	sediment	1								✓			
2	LDW-Y1-IN-ENR-CB-CORE		1400	sediment	1								✓			
3	LDW-Y1-IN-ENR-CC-CORE		1420	sediment	1								✓			
4	LDW-Y1-IN-ENR+AC-CA-CORE		1500	sediment	1								✓			
5	LDW-Y1-IN-ENR+AC-CB-CORE		1510	sediment	1								✓			
6	LDW-Y1-IN-ENR+AC-CC-CORE		1520	sediment	1								✓			
7	LDW-Y1-SC-ENR-CA-CORE	7/6/18	1045	sediment	1								✓			
8	LDW-Y1-SC-ENR-CB-CORE		1100	sediment	1								✓			
9	LDW-Y1-SC-ENR-CC-CORE		1120	sediment	1								✓			
10	LDW-Y1-SC-ENR+AC-CA-CORE		1205	sediment	1								✓			
11	LDW-Y1-SC-ENR+AC-CB-CORE		1245	sediment	1								✓			
12	LDW-Y1-SC-ENR+AC-CC-CORE		1300	sediment	1								✓			
13																
14																
15																

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

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
Robert Gilmour Robert Gilmour	7/9/18	1245	Cathy Sep KZ PP	7-10-18	1320

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.

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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.: 11719
Temperature: 1 °C

Chain of Custody

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Please Print in Pen **Page** 2 **of** 2

CLIENT INFORMATION
Company Name: Floyd Snider
Contact Name: Gretchen Heavner
Address: 601 Union Street, 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: Diane Shannon and Crystal Thimsen
Address: 3500 188TH St. SW, Suite 601, Lynnwood WA 98037
Phone: 425-921-4008 Fax:
Email: diane.shannon@woodplc.com & crystal.thimsen@woodplc.com

PROJECT INFORMATION
FAL Quote #: 3102A
P.O. #: C013106435
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)
☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
✓ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS
EDD format should be as developed with Floyd|Snider and Saylor Data Solutions

**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 Collected	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-SU-ENR-CA-CORE	5/3/18	9:50	sediment	1								✓			
2	LDW-Y1-SU-ENR-CB-CORE		10:10	sediment	1								✓			
3	LDW-Y1-SU-ENR-CC-CORE		10:25	sediment	1								✓			
4	LDW-Y1-SU-ENR+AC-CA-CORE		12:00	sediment	1								✓			
5	LDW-Y1-SU-ENR+AC-CB-CORE		12:15	sediment	1								✓			
6	LDW-Y1-SU-ENR+AC-CC-CORE		12:25	sediment	1								✓			
7																
8																
9																
10																
11																
12																
13																
14																
15																

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
Robert Gilmore Robert Gilmore	7/9/18	1245	Kathy Zipp K. Zipp	7-10-18	1320

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: **11719**

Client:	Floyd | Snider
Client Project ID:	LY15160310
Date Received:	07/10/2018
Time Received:	01:20 pm
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	18
Duplicates:	0
Storage Location:	R-3

Method of Delivery:	Fed-Ex
Tracking Number:	772663443210
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	1
Cooling Method	Blue Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	No
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:	

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

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Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #:	11719	Sample #:	~~1-18~~ 1-6 AN 7.26.18	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	05/03/2019
Matrix:	Sediment	Extraction Batch:	4590	Due Date:	08/08/2018
Method:	EPA 1668 PCB			Storage:	R-3
SOP:	SOPs: EP1A Rev.11 IP1A Rev.9				

COMMENTS/INSTRUCTIONS:

Results: 11719

Extract/s located in box: Tuli Recycle

Standards: 11719

Instrument:

DB5MS	____
007-225	____
DB1MS	FAL-4
Other	____

L4, Special Floyd | Snider EDD.

Frontier Analytical Laboratory
Percent Solids

FAL Project: 11719

Sample ID	Chemist	Date	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	5g ~~10g~~ Equiv	KC 7-17-18 Wet Wt Oven Temp	Dry Wt Oven Temp	Boat Wt (gms)
11719-001-0001-SA	KC	7-17-18	6.32g	6.31g	99.84%	5.01g	112°C	108°C	1.07g
11719-002-0001-SA	↓	↓	11.56g	11.51g	99.57%	5.02g	↓	↓	1.12g
11719-003-0001-SA			4.68g	4.66g	99.57%	5.02g			1.10g
11719-004-0001-SA			6.77g	6.77g	100.00%	5.00g			1.09g
11719-005-0001-SA			9.47g	9.41g	99.37%	5.03g			1.10g
11719-006-0001-SA			8.01g	8.01g	100.00%	5.00g			1.08g
11719-007-0001-SA			5.21g	5.20g	99.81%	5.01g			1.13g
11719-008-0001-SA			7.37g	7.29g	98.91%	5.06g			1.11g
11719-009-0001-SA			9.11g	9.09g	99.78%	5.01g			1.07g
11719-010-0001-SA			7.13g	7.01g	98.32%	5.09g			1.09g
11719-011-0001-SA			9.01g	8.77g	97.34%	5.14g			1.12g
11719-012-0001-SA			6.53g	6.49g	99.39%	5.03g			1.12g
11719-013-0001-SA			12.72g	10.54g	82.86%	6.03g			1.11g
11719-014-0001-SA			14.27g	11.83g	82.90%	6.03g			1.08g
11719-015-0001-SA			16.87g	14.08g	83.46%	5.99g			1.08g
11719-016-0001-SA			11.61g	8.92g	76.83%	6.51g			1.10g
11719-017-0001-SA			12.20g	9.78g	80.16%	6.24g			1.11g
11719-018-0001-SA	↓	↓	14.62g	10.81g	73.94%	6.76g	↓	↓	1.10g

% Solids Summary:

Non-Filtered Determination

1. Place an aliquot of sample into a pre-weighed aluminum weighing boat. Use approximately two to ten grams for solid samples, approximately 10 mL for aqueous samples.
2. Record the weight.
3. Dry sample overnight at approximately 110 C.

Filtered Determination

1. Pre-weigh a glass fiber filter of appropriate pore size and pressure filter a sample aliquot (200-1000mL) through it.
2. Air dry the filter and record the dry weight.

% Solids calculation

% solids = aliquot after drying/aliquot before drying x 100

- Samples containing one percent solids or less are prepared as aqueous samples.
- Samples containing greater than one percent solids prepared as solid samples.

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 11719 Extraction Date: 2018-07-26 Extraction Chemist: DV

Method/Analysis: EPA 1668 PCB

Procedure: SOX Solvent: DCM (Methylene Chloride)

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS Amt: 10.0uL ID: R180705A Vial: 1 Chemist/Witness/Date	NS Amt: 10.0uL ID: 180221A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R180510C Vial: RR 7.30.18 2 Chemist/Witness/Date
04590-001-0001-MB	(5.00g)	(5.00g)	DN JM 7.26.18	N/A	RR KC 7.30.18
04590-001-0001-OPR	(5.00g)	(5.00g)		DN JM 7.26.18	
11719-001-0001-SA	5.03g	5.02g		N/A	
11719-002-0001-SA	5.03g	5.01g			
11719-003-0001-SA	5.03g	5.01g			
11719-004-0001-SA	5.04g	5.04g	4.99g		
11719-005-0001-SA	5.02g	~~5.00g~~	DN 8.6.18		
11719-006-0001-SA	5.00g	5.00g			

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 #: 11719

Method/Analysis: EPA 1668 PCB

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

Sample ID	Cleanup 1 PCB·MSG	Cleanup 2 NA	Cleanup 3 NA	RS Amt: 10.0uL ID: 180607A Vial: 1
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
04590-001-0001-MB	RP 7·30·18	NA	NA	RP KC 7·30·18
04590-001-0001-OPR				
11719-001-0001-SA				
11719-002-0001-SA				
11719-003-0001-SA				
11719-004-0001-SA				
11719-005-0001-SA				
11719-006-0001-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:

Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #:	11719	Sample #:	~~1-18~~ 7-18 ON 7.26.18	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	05/03/2019
Matrix:	Sediment	Extraction Batch:	4591	Due Date:	08/08/2018
Method:	EPA 1668 PCB			Storage:	R-3
SOP:	SOPs: EP1A Rev.11 IP1A Rev.9				

COMMENTS/INSTRUCTIONS:

Results: 11719-7
11719-16

Extract/s located in box: Teller People

Standards: 11719

Instrument:
DB5MS ____
007-225 ____
DB1MS FAL4
Other ____

L4, Special Floyd | Snider EDD.

Frontier Analytical Laboratory
Percent Solids

FAL Project: 11719

Sample ID	Chemist	Date	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	5g ~~10g~~ Equiv	7.17.18 Wet Wt Oven Temp	Dry Wt Oven Temp	Boat Wt (gms)
11719-001-0001-SA	KC	7.17.18	6.32g	6.31g	99.84%	5.01g	112°C	108°C	1.07g
11719-002-0001-SA			11.56g	11.51g	99.57%	5.02g			1.12g
11719-003-0001-SA			4.68g	4.66g	99.57%	5.02g			1.10g
11719-004-0001-SA			6.77g	6.77g	100.00%	5.00g			1.09g
11719-005-0001-SA			9.47g	9.41g	99.37%	5.03g			1.10g
11719-006-0001-SA			8.01g	8.01g	100.00%	5.00g			1.08g
11719-007-0001-SA			5.21g	5.20g	99.81%	5.01g			1.13g
11719-008-0001-SA			7.37g	7.29g	98.91%	5.06g			1.11g
11719-009-0001-SA			9.11g	9.09g	99.78%	5.01g			1.07g
11719-010-0001-SA			7.13g	7.01g	98.32%	5.09g			1.09g
11719-011-0001-SA			9.01g	8.77g	97.34%	5.14g			1.12g
11719-012-0001-SA			6.53g	6.49g	99.39%	5.03g			1.12g
11719-013-0001-SA			12.72g	10.54g	82.86%	6.03g			1.11g
11719-014-0001-SA			14.27g	11.83g	82.90%	6.03g			1.08g
11719-015-0001-SA			16.87g	14.08g	83.46%	5.99g			1.08g
11719-016-0001-SA			11.61g	8.92g	76.83%	6.51g			1.10g
11719-017-0001-SA			12.20g	9.78g	80.16%	6.24g			1.11g
11719-018-0001-SA			14.62g	10.81g	73.94%	6.76g			1.10g

% Solids Summary:

Non-Filtered Determination

1. Place an aliquot of sample into a pre-weighed aluminum weighing boat. Use approximately two to ten grams for solid samples, approximately 10 mL for aqueous samples.
2. Record the weight.
3. Dry sample overnight at approximately 110 C.

Filtered Determination

1. Pre-weigh a glass fiber filter of appropriate pore size and pressure filter a sample aliquot (200-1000mL) through it.
2. Air dry the filter and record the dry weight.

% Solids calculation

% solids = aliquot after drying/aliquot before drying x 100

- Samples containing one percent solids or less are prepared as aqueous samples.
- Samples containing greater than one percent solids prepared as solid samples.

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 11719 Extraction Date: 2018-07-27 Extraction Chemist: DV

Method/Analysis: EPA 1668 PCB

Procedure: SOX Solvent: DCM (Methylene Chloride)

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS Amt: 10.0uL ID: R180705A Vial: 1 Chemist/Witness/Date	NS Amt: 10.0uL ID: 180727A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R180510C Vial: 7-30-18 RR X2 Chemist/Witness/Date
04591-001-0001-MB	(5.00g)	(5.00g)	DN JM 7/27/18	N/A	RR KC 7-30-18
04591-001-0001-OPR	(5.00g)	(5.00g)		DN JM 7/27/18	
11719-007-0001-SA	5.04g	5.03g		N/A	
11719-008-0001-SA	5.07g	5.01g			
11719-009-0001-SA	5.01g	5.00g			
11719-010-0001-SA	5.09g	5.00g			
11719-011-0001-SA	5.14g	5.00g			
11719-012-0001-SA	5.03g	5.00g			
11719-013-0001-SA	6.02g	4.99g			
11719-014-0001-SA	6.06g	5.02g			
11719-015-0001-SA	6.03g	5.03g			
11719-016-0001-SA	6.59g	5.06g			
11719-017-0001-SA	6.23g	4.99g			
11719-018-0001-SA	6.76g	5.00g			

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 #: 11719

Method/Analysis: EPA 1668 PCB

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

Sample ID	Cleanup 1 PCB-MSG	Cleanup 2 NA	Cleanup 3 NA	RS Amt: 10.0uL ID: 180607A Vial: 1
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
04591-001-0001-MB	RR 7.30.18	NA	NA	RR KC 7.30.18
04591-001-0001-OPR				
11719-007-0001-SA				
11719-008-0001-SA				
11719-009-0001-SA				
11719-010-0001-SA				
11719-011-0001-SA				
11719-012-0001-SA				
11719-013-0001-SA				
11719-014-0001-SA				
11719-015-0001-SA				
11719-016-0001-SA				
11719-017-0001-SA				
11719-018-0001-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: 04590-001-0001-MB Filename: 30JUL18Z Sam:4 Acquired: 30-JUL-18 13:14:46 ICal: DAILY209FAL4-7-30-18
Client ID: Method Blank ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 5.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	*	n	NotFnd	1.20	*		1240	888	0.699			
13C-PCB-1	3.88e+07	3.24	y	14:30	0.92	1650					82.5	9.83e+06	2.98e+06
PCB-2	*	*	n	NotFnd	1.08	*		1240	888	0.827			
PCB-3	*	*	n	NotFnd	1.19	*		1240	888	0.799			
13C-PCB-3	3.85e+07	3.26	y	16:57	0.90	1680					84.1	8.78e+06	2.59e+06
PCB-4	*	*	n	NotFnd	1.40	*		840	2370	1.28			
PCB-10	*	*	n	NotFnd	1.27	*		840	2370	1.30			
13C-PCB-4	3.02e+07	1.63	y	18:10	0.68	1760					87.9	5.63e+06	3.36e+06
PCB-9	*	*	n	NotFnd	1.40	*		840	2370	1.17			
PCB-7	*	*	n	NotFnd	1.49	*		840	2370	1.10			
PCB-6	*	*	n	NotFnd	1.40	*		840	2370	1.17			
PCB-8	*	*	n	NotFnd	1.37	*		840	2370	1.20			
PCB-5	*	*	n	NotFnd	1.45	*		840	2370	1.13			
PCB-14	*	*	n	NotFnd	1.34	*		840	2370	1.23			
PCB-11	*	*	n	NotFnd	1.29	*		840	2370	1.27			
PCB-13	*	*	n	NotFnd	1.33	*		840	2370	1.23			
PCB-12	*	*	n	NotFnd	1.41	*		840	2370	1.16			
PCB-15	*	*	n	NotFnd	1.33	*		840	2370	1.16			
13C-PCB-15	4.60e+07	1.63	y	23:44	1.00	1820					90.8	6.48e+06	3.95e+06
PCB-19	*	*	n	NotFnd	1.21	*		964	368	1.09			
PCB-30	*	*	n	NotFnd	1.67	*		964	368	0.790			
PCB-18	*	*	n	NotFnd	1.17	*		964	368	1.13			
PCB-17	*	*	n	NotFnd	1.28	*		964	368	1.03			
PCB-27	*	*	n	NotFnd	1.57	*		964	368	0.841			
PCB-24	*	*	n	NotFnd	1.72	*		964	368	0.768			
PCB-16	*	*	n	NotFnd	1.40	*		964	368	0.942			
PCB-32	*	*	n	NotFnd	1.46	*		964	368	0.900			
13C-PCB-19	1.82e+07	1.09	y	22:03	0.41	1730					86.5	2.63e+06	2.42e+06
13C-PCB-9	5.08e+07	1.64	y	19:51	-	13.9							
PCB-34	*	*	n	NotFnd	1.28	*		1000	440	0.799			
PCB-23	*	*	n	NotFnd	1.27	*		1000	440	0.804			
PCB-29	*	*	n	NotFnd	1.33	*		1000	440	0.771			
PCB-26	*	*	n	NotFnd	1.26	*		1000	440	0.815			
PCB-25	*	*	n	NotFnd	1.59	*		1000	440	0.645			
PCB-31	*	*	n	NotFnd	1.29	*		1000	440	0.795			
PCB-28	*	*	n	NotFnd	1.56	*		1000	440	0.656			
PCB-20	*	*	n	NotFnd	1.33	*		1000	440	0.768		Co-elute PCB 21/33	
PCB-21	*	*	n	NotFnd	1.33	*		1000	440	0.768		Co-elute PCB 20/33	
PCB-33	*	*	n	NotFnd	1.33	*		1000	440	0.768		Co-elute PCB 20/21	
PCB-22	*	*	n	NotFnd	1.35	*		1000	440	0.759			
PCB-36	*	*	n	NotFnd	1.21	*		1000	440	0.847			
PCB-39	*	*	n	NotFnd	1.27	*		1000	440	0.805			
PCB-38	*	*	n	NotFnd	1.28	*		1000	440	0.800			
PCB-35	*	*	n	NotFnd	1.15	*		1000	440	0.890			
PCB-37	*	*	n	NotFnd	1.37	*		1000	440	0.751			
13C-PCB-37	3.91e+07	1.07	y	30:23	1.82	1870					93.7	3.67e+06	3.37e+06

FAL ID: 04590-001-0001-MB Filename: 30JUL18Z Sam:4 Acquired: 30-JUL-18 ICal: DAILY209FAL4-7-30-18
Client ID: Method Blank ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 5.000

PCB-54	*	*	n	NotFnd	1.19	*	348	536	0.577				
PCB-50	*	*	n	NotFnd	0.91	*	348	536	0.759				
PCB-53	*	*	n	NotFnd	0.92	*	348	536	0.748				
PCB-51	*	*	n	NotFnd	0.93	*	348	536	0.736				
PCB-45	*	*	n	NotFnd	0.78	*	348	536	0.884				
PCB-46	*	*	n	NotFnd	0.76	*	348	536	0.905				
PCB-52	*	*	n	NotFnd	1.06	*	348	536	0.651		Co-elute PCB 69		
PCB-69	*	*	n	NotFnd	1.06	*	348	536	0.651		Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.26	*	348	536	0.546				
PCB-43	*	*	n	NotFnd	0.88	*	348	536	0.779		Co-elute PCB 49		
PCB-49	*	*	n	NotFnd	0.88	*	348	536	0.779		Co-elute PCB 43		
PCB-47	*	*	n	NotFnd	1.14	*	348	536	0.600				
PCB-48	*	*	n	NotFnd	1.10	*	348	536	0.622		Co-elute PCB 75		
PCB-75	*	*	n	NotFnd	1.10	*	348	536	0.622		Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.07	*	348	536	0.640				
PCB-62	*	*	n	NotFnd	1.19	*	348	536	0.578				
PCB-44	*	*	n	NotFnd	0.81	*	348	536	0.849				
PCB-42	*	*	n	NotFnd	1.08	*	348	536	0.635		Co-elute PCB 59		
PCB-59	*	*	n	NotFnd	1.08	*	348	536	0.635		Co-elute PCB 42		
PCB-72	*	*	n	NotFnd	1.15	*	348	536	0.596		Co-elute PCB 41/71/64		
PCB-41	*	*	n	NotFnd	1.15	*	348	536	0.596		Co-elute PCB 72/71/64		
PCB-71	*	*	n	NotFnd	1.15	*	348	536	0.596		Co-elute PCB 72/41/64		
PCB-64	*	*	n	NotFnd	1.15	*	348	536	0.596		Co-elute PCB 72/41/71		
PCB-68	*	*	n	NotFnd	1.26	*	348	536	0.545				
PCB-40	*	*	n	NotFnd	0.71	*	348	536	0.974				
PCB-57	*	*	n	NotFnd	1.11	*	348	536	0.618				
PCB-67	*	*	n	NotFnd	1.10	*	348	536	0.625				
PCB-58	*	*	n	NotFnd	1.16	*	348	536	0.595				
PCB-63	*	*	n	NotFnd	1.17	*	348	536	0.588				
PCB-74	*	*	n	NotFnd	1.21	*	348	536	0.569				
PCB-61	*	*	n	NotFnd	1.21	*	348	536	0.566		Co-elute PCB 70		
PCB-70	*	*	n	NotFnd	1.21	*	348	536	0.566		Co-elute PCB 61		
PCB-76	*	*	n	NotFnd	1.21	*	348	536	0.570		Co-elute PCB 66		
PCB-66	*	*	n	NotFnd	1.21	*	348	536	0.570		Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.28	*	348	536	0.537				
PCB-55	*	*	n	NotFnd	1.20	*	348	536	0.574				
13C-PCB-54	2.46e+07	0.82	y	25:36	1.17	1830				91.6	2.89e+06	3.54e+06	
PCB-104	*	*	n	NotFnd	1.32	*	204	444	0.812				
PCB-96	*	*	n	NotFnd	1.16	*	204	444	0.922				
PCB-103	*	*	n	NotFnd	0.99	*	204	444	1.09				
PCB-100	*	*	n	NotFnd	1.01	*	204	444	1.06				
PCB-94	*	*	n	NotFnd	0.85	*	204	444	1.26				
PCB-98	*	*	n	NotFnd	1.05	*	204	444	1.02		Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.05	*	204	444	1.02		Co-elute PCB 98		
PCB-95	*	*	n	NotFnd	0.90	*	204	444	1.19				
PCB-93	*	*	n	NotFnd	0.83	*	204	444	1.28				
PCB-88	*	*	n	NotFnd	0.93	*	204	444	1.15		Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	0.93	*	204	444	1.15		Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.17	*	204	444	0.914				
13C-PCB-104	1.29e+07	1.64	y	30:01	0.62	1800				90.1	1.92e+06	1.12e+06	
13C-PCB-28	4.88e+07	1.12	y	26:41	2.10	2020				101	5.95e+06	5.27e+06	
13C-PCB-52	2.29e+07	0.81	y	28:57	-	13.6							

PCB-56	*	*	n	NotFnd	1.30	*	332	552	0.694			Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.30	*	332	552	0.694			Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.27	*	332	552	0.712			
PCB-78	*	*	n	NotFnd	1.21	*	332	552	0.746			
PCB-81	*	*	n	NotFnd	1.33	*	332	552	0.663			
13C-PCB-81	2.76e+07	0.82	y	36:09	1.59	1930				96.5	2.25e+06	2.78e+06
PCB-77	*	*	n	NotFnd	1.22	*	332	552	0.762			
13C-PCB-77	2.84e+07	0.81	y	36:43	1.65	1910				95.5	2.13e+06	2.64e+06
PCB-155	*	*	n	NotFnd	1.16	*	292	188	0.652			
PCB-150	*	*	n	NotFnd	1.06	*	292	188	0.711			
PCB-152	*	*	n	NotFnd	1.01	*	292	188	0.747			
PCB-145	*	*	n	NotFnd	1.05	*	292	188	0.723			
PCB-136	*	*	n	NotFnd	1.01	*	292	188	0.751			
PCB-148	*	*	n	NotFnd	0.78	*	292	188	0.970			
PCB-154	*	*	n	NotFnd	0.92	*	292	188	0.827			
13C-PCB-155	1.45e+07	1.31	y	34:11	0.86	1870				93.6	1.81e+06	1.36e+06
13C-PCB-111	2.08e+07	1.64	y	36:18	1.18	1940				97.1	2.64e+06	1.59e+06
13C-PCB-101	1.81e+07	1.62	y	34:38	-	13.0						
PCB-84	*	*	n	NotFnd	0.59	*	396	423	1.29			Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.59	*	396	423	1.29			Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.58	*	396	423	1.31			
PCB-90	*	*	n	NotFnd	0.68	*	396	423	1.14			Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.68	*	396	423	1.14			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.76	*	396	423	1.01			
PCB-99	*	*	n	NotFnd	0.72	*	396	423	1.07			
PCB-119	*	*	n	NotFnd	0.81	*	396	423	0.947			
PCB-83	*	*	n	NotFnd	0.68	*	396	423	1.13			Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.68	*	396	423	1.13			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.80	*	396	423	0.954			
PCB-97	*	*	n	NotFnd	0.71	*	396	423	1.08			
PCB-86	*	*	n	NotFnd	0.63	*	396	423	1.22			
PCB-125	*	*	n	NotFnd	0.74	*	396	423	1.04			Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.74	*	396	423	1.04			Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.74	*	396	423	1.04			Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	0.98	*	396	423	0.778			Co-elute PCB 115
PCB-115	*	*	n	NotFnd	0.98	*	396	423	0.778			Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.67	*	396	423	1.14			Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.67	*	396	423	1.14			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.83	*	396	423	0.925			
PCB-110	*	*	n	NotFnd	0.91	*	396	423	0.840			
PCB-82	*	*	n	NotFnd	0.51	*	396	423	1.52			
PCB-124	*	*	n	NotFnd	1.10	*	584	540	0.954			
PCB-108	*	*	n	NotFnd	1.26	*	584	540	0.836			Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.26	*	584	540	0.836			Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.35	*	584	540	0.762			
13C-PCB-123	2.59e+07	1.62	y	38:20	1.45	1870				93.7	3.38e+06	2.08e+06
PCB-118	*	*	n	NotFnd	1.17	*	584	540	0.880			Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.17	*	584	540	0.880			Co-elute PCB 118
13C-PCB-118	2.99e+07	1.63	y	38:30	1.55	2020				101	3.37e+06	2.08e+06
PCB-114	*	*	n	NotFnd	1.18	*	584	540	0.859			
13C-PCB-114	2.84e+07	1.66	y	39:08	1.50	1990				99.7	3.48e+06	2.08e+06
PCB-122	*	*	n	NotFnd	1.24	*	584	540	0.847			
PCB-105	*	*	n	NotFnd	1.20	*	584	540	0.950			
13C-PCB-105	2.73e+07	1.66	y	39:57	1.50	1910				95.4	3.07e+06	1.86e+06

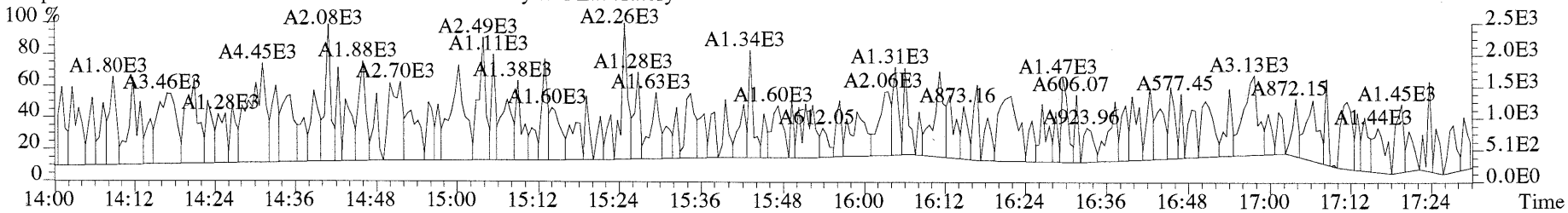
PCB-127	*	*	n	NotFnd	1.10	*	584	540	0.959				
PCB-126	*	*	n	NotFnd	1.22	*	584	540	1.08				
13C-PCB-126	2.58e+07	1.62	y	42:05	1.38	1960				98.1	2.64e+06	1.62e+06	
PCB-151	*	*	n	NotFnd	0.82	*	492	384	1.43				
PCB-135	*	*	n	NotFnd	0.78	*	492	384	1.51				
PCB-144	*	*	n	NotFnd	0.96	*	492	384	1.22				
PCB-147	*	*	n	NotFnd	0.89	*	492	384	1.32				
PCB-139	*	*	n	NotFnd	0.95	*	492	384	1.24		Co-elute PCB 149		
PCB-149	*	*	n	NotFnd	0.95	*	492	384	1.24		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.91	*	492	384	1.29				
PCB-143	*	*	n	NotFnd	0.89	*	492	384	1.32		Co-elute PCB 134		
PCB-134	*	*	n	NotFnd	0.89	*	492	384	1.32		Co-elute PCB 143		
PCB-131	*	*	n	NotFnd	0.89	*	492	384	1.32		Co-elute PCB 133		
PCB-133	*	*	n	NotFnd	0.89	*	492	384	1.32		Co-elute PCB 131		
PCB-142	*	*	n	NotFnd	0.75	*	492	384	1.56				
PCB-165	*	*	n	NotFnd	1.05	*	492	384	1.12		Co-elute PCB 146		
PCB-146	*	*	n	NotFnd	1.05	*	492	384	1.12		Co-elute PCB 165		
PCB-161	*	*	n	NotFnd	1.00	*	492	384	1.18		Co-elute PCB 132		
PCB-132	*	*	n	NotFnd	1.00	*	492	384	1.18		Co-elute PCB 161		
PCB-153	*	*	n	NotFnd	1.01	*	492	384	1.16				
PCB-168	*	*	n	NotFnd	1.14	*	492	384	1.03				
PCB-141	*	*	n	NotFnd	0.89	*	492	384	1.32				
PCB-137	*	*	n	NotFnd	0.90	*	492	384	1.30				
PCB-130	*	*	n	NotFnd	0.75	*	492	384	1.57				
PCB-138	*	*	n	NotFnd	1.15	*	492	384	1.02		Co-elute PCB 163/164		
PCB-163	*	*	n	NotFnd	1.15	*	492	384	1.02		Co-elute PCB 138/164		
PCB-164	*	*	n	NotFnd	1.15	*	492	384	1.02		Co-elute PCB 138/163		
PCB-158	*	*	n	NotFnd	1.16	*	492	384	1.01		Co-elute PCB 160		
PCB-160	*	*	n	NotFnd	1.16	*	492	384	1.01		Co-elute PCB 158		
PCB-129	*	*	n	NotFnd	0.75	*	492	384	1.57				
PCB-166	*	*	n	NotFnd	1.07	*	492	384	1.09				
PCB-159	*	*	n	NotFnd	1.16	*	492	384	1.01				
PCB-128	*	*	n	NotFnd	0.97	*	492	384	1.21		Co-elute PCB 162		
PCB-162	*	*	n	NotFnd	0.97	*	492	384	1.21		Co-elute PCB 128		
PCB-167	*	*	n	NotFnd	1.06	*	492	384	1.12				
13C-PCB-167	2.08e+07	1.29	y	43:26	1.15	1900				95.2	2.08e+06	1.63e+06	
PCB-156	*	*	n	NotFnd	1.12	*	492	384	1.03				
13C-PCB-156	2.00e+07	1.28	y	44:40	1.10	1900				95.2	2.16e+06	1.66e+06	
PCB-157	*	*	n	NotFnd	1.13	*	492	384	1.02				
13C-PCB-157	2.10e+07	1.27	y	44:55	1.15	1920				96.2	2.16e+06	1.67e+06	
PCB-169	*	*	n	NotFnd	1.09	*	492	384	1.12				
13C-PCB-169	1.96e+07	1.27	y	46:49	1.08	1900				95.2	2.04e+06	1.56e+06	

FAL ID: 04590-001-0001-MB Filename: 30JUL18Z Sam:4 Acquired: 30-JUL-18 13:14:46 ICal: DAILY209FAL4-7-30-18
Client ID: Method Blank ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 5.000

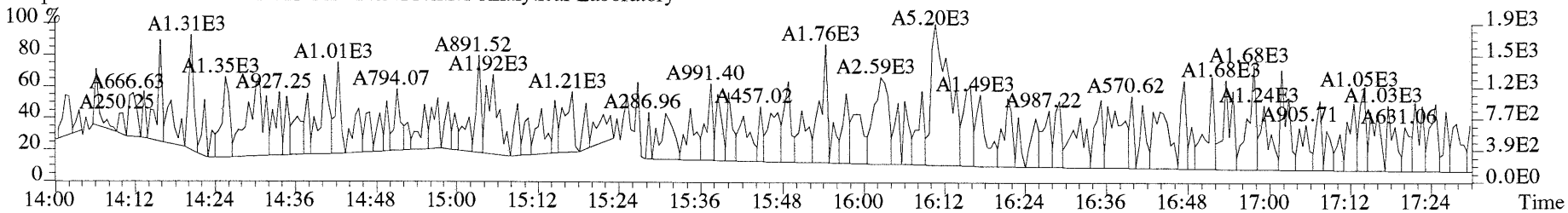
PCB-188	*	*	n	NotFnd	1.14	*	300	188	0.610			
13C-PCB-188	1.59e+07	1.07	y	39:41	0.92	1820				90.9	1.84e+06	1.67e+06
PCB-184	*	*	n	NotFnd	1.18	*	300	188	0.600			
PCB-179	*	*	n	NotFnd	1.10	*	300	188	0.647			
PCB-176	*	*	n	NotFnd	1.07	*	300	188	0.661			
PCB-186	*	*	n	NotFnd	1.10	*	300	188	0.644			
PCB-178	*	*	n	NotFnd	0.79	*	300	188	0.894			
PCB-175	*	*	n	NotFnd	0.83	*	300	188	0.853			
PCB-187	*	*	n	NotFnd	0.91	*	300	188	0.778		Co-elute PCB 182	
PCB-182	*	*	n	NotFnd	0.91	*	300	188	0.778		Co-elute PCB 187	
PCB-183	*	*	n	NotFnd	0.88	*	300	188	0.805			
PCB-185	*	*	n	NotFnd	0.85	*	300	188	0.837			
PCB-174	*	*	n	NotFnd	0.82	*	300	188	0.864			
PCB-181	*	*	n	NotFnd	0.85	*	300	188	0.831			
PCB-177	*	*	n	NotFnd	0.76	*	300	188	0.931			
PCB-171	*	*	n	NotFnd	0.81	*	300	188	0.882			
PCB-173	*	*	n	NotFnd	0.74	*	300	188	0.958			
PCB-172	*	*	n	NotFnd	0.73	*	300	188	0.977			
PCB-192	*	*	n	NotFnd	1.06	*	300	188	0.670			
PCB-180	*	*	n	NotFnd	1.02	*	300	188	0.695			
PCB-193	*	*	n	NotFnd	1.10	*	300	188	0.646			
PCB-191	*	*	n	NotFnd	1.01	*	300	188	0.705			
PCB-170	*	*	n	NotFnd	0.75	*	300	188	0.952			
PCB-190	*	*	n	NotFnd	0.98	*	300	188	0.724			
PCB-189	*	*	n	NotFnd	1.12	*	300	188	0.645			
13C-PCB-189	1.45e+07	1.08	y	48:27	0.82	1860				93.1	1.75e+06	1.61e+06
PCB-202	*	*	n	NotFnd	1.01	*	164	184	0.794			
PCB-201	*	*	n	NotFnd	0.99	*	164	184	0.809			
PCB-204	*	*	n	NotFnd	0.96	*	164	184	0.832			
PCB-197	*	*	n	NotFnd	1.06	*	164	184	0.759			
PCB-200	*	*	n	NotFnd	0.98	*	164	184	0.816			
PCB-198	*	*	n	NotFnd	0.72	*	164	184	1.12			
PCB-199	*	*	n	NotFnd	0.78	*	164	184	1.03			
PCB-203	*	*	n	NotFnd	0.82	*	164	184	0.976		Co-elute PCB 196	
PCB-196	*	*	n	NotFnd	0.82	*	164	184	0.976		Co-elute PCB 203	
13C-PCB-202	9.95e+06	0.91	y	44:47	0.59	1780				89.0	1.03e+06	1.14e+06
13C-PCB-178	1.22e+07	1.08	y	42:19	0.65	1970				98.3	1.26e+06	1.21e+06
13C-PCB-138	1.90e+07	1.30	y	41:32	-	13.0						
PCB-195	*	*	n	NotFnd	0.79	*	244	792	0.836			
PCB-194	*	*	n	NotFnd	0.85	*	244	792	0.772			
PCB-205	*	*	n	NotFnd	1.15	*	244	792	0.574			
13C-PCB-205	2.54e+07	0.94	y	50:05	1.30	1770				88.6	3.80e+06	4.06e+06
PCB-208	*	*	n	NotFnd	1.05	*	321	354	0.492			
13C-PCB-208	1.98e+07	0.83	y	49:08	1.04	1730				86.4	2.95e+06	3.56e+06
PCB-207	*	*	n	NotFnd	1.07	*	321	354	0.551			
PCB-206	*	*	n	NotFnd	1.04	*	321	354	0.647			
13C-PCB-206	1.63e+07	0.80	y	51:17	0.86	1730				86.3	2.25e+06	2.78e+06
PCB-209	*	*	n	NotFnd	1.10	*	400	352	0.627			
13C-PCB-209	1.84e+07	1.21	y	52:27	0.98	1720				85.9	3.03e+06	2.42e+06
13C-PCB-194	2.20e+07	0.93	y	49:51	-	13.9						

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

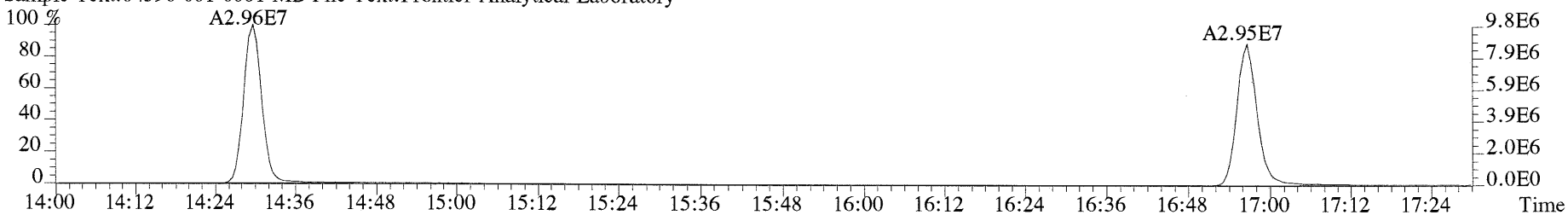
File:30JUL18Z #1-783 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-783 Acq:30-JUL-2018 13:14:46 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:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-783 Acq:30-JUL-2018 13:14:46 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:04590-001-0001-MB File Text:Frontier Analytical Laboratory



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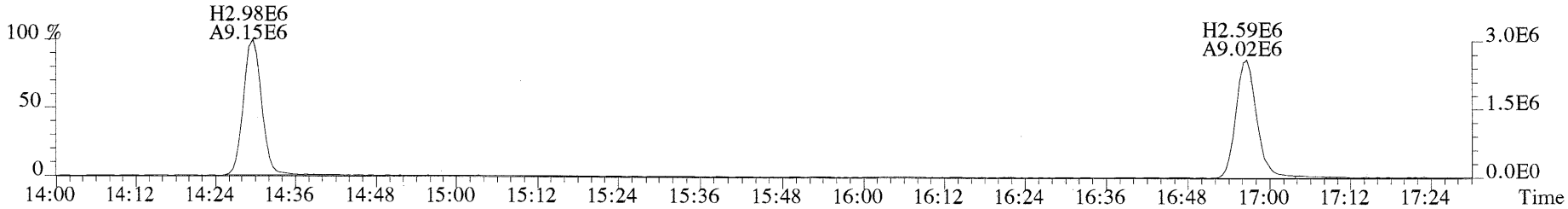
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



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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
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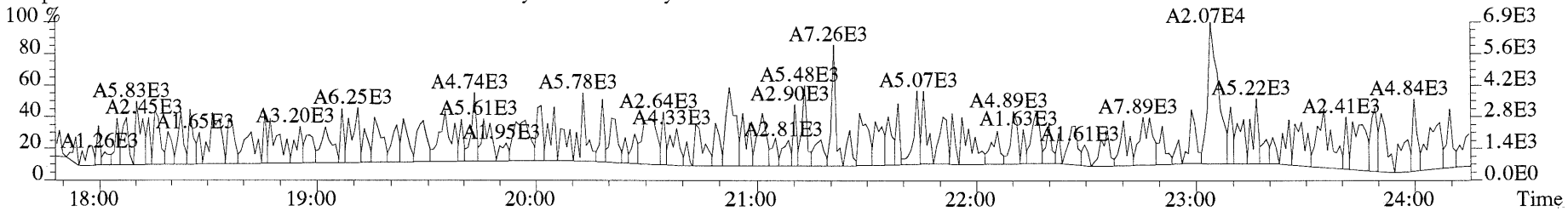

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223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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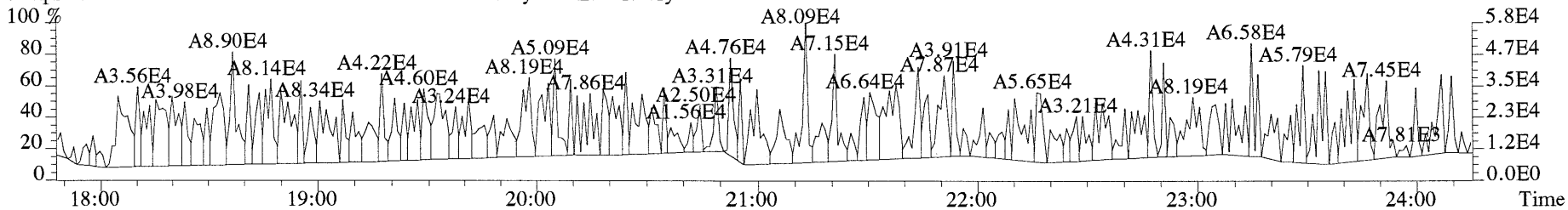

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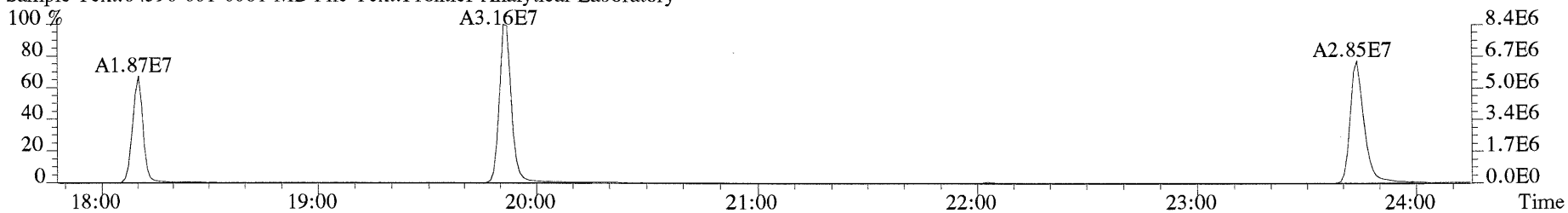
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



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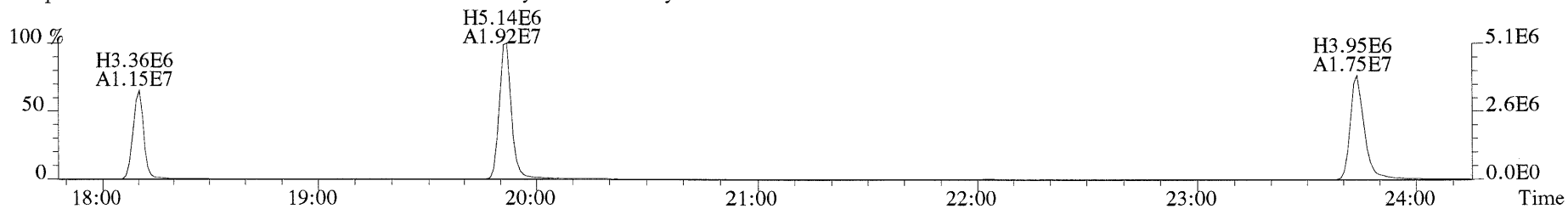
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-521 Acq:30-JUL-2018 13:14:46 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
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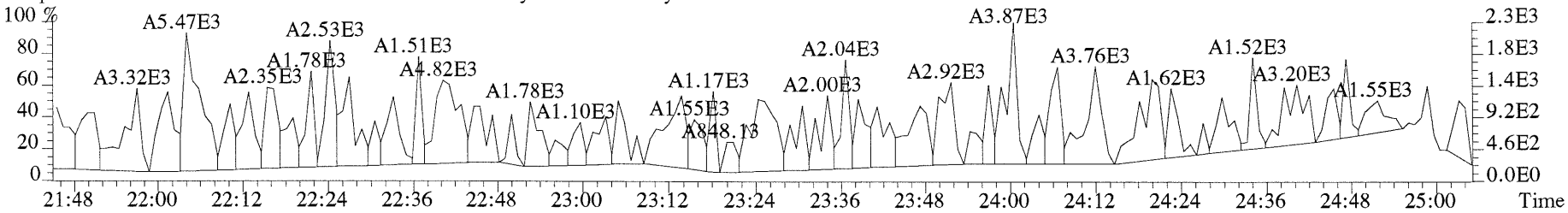

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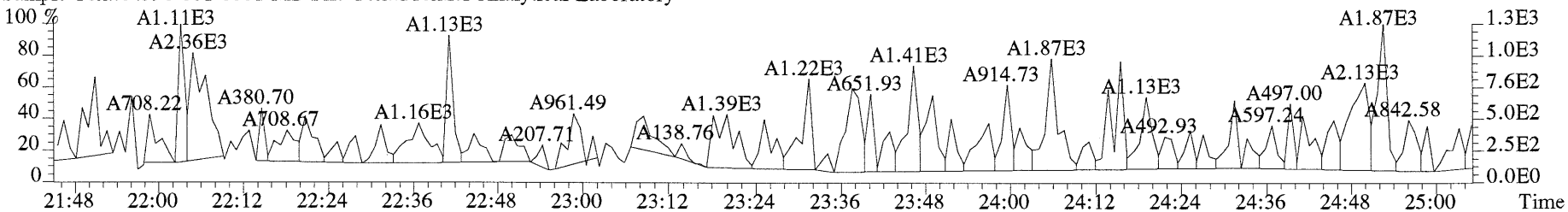
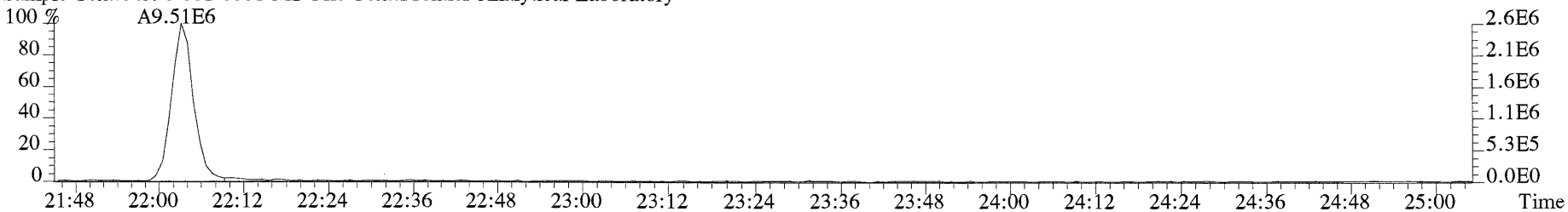
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-521 Acq:30-JUL-2018 13:14:46 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:04590-001-0001-MB File Text:Frontier Analytical Laboratory



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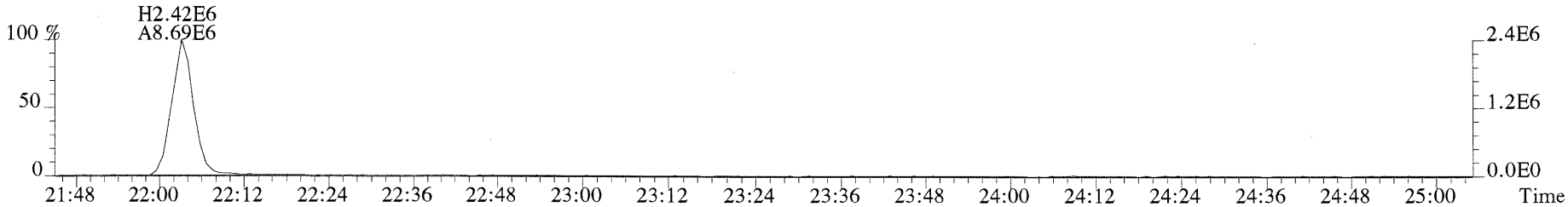
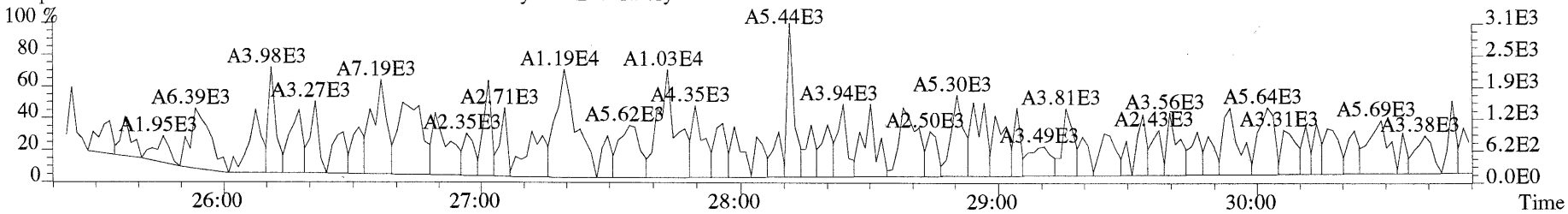
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-401 Acq:30-JUL-2018 13:14:46 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:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-401 Acq:30-JUL-2018 13:14:46 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
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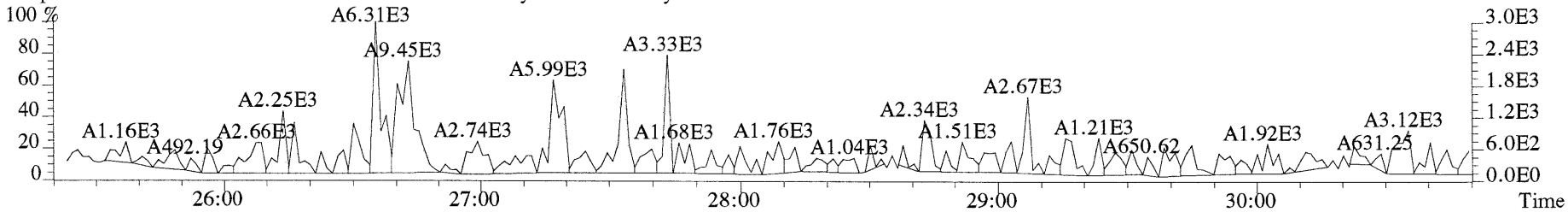

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268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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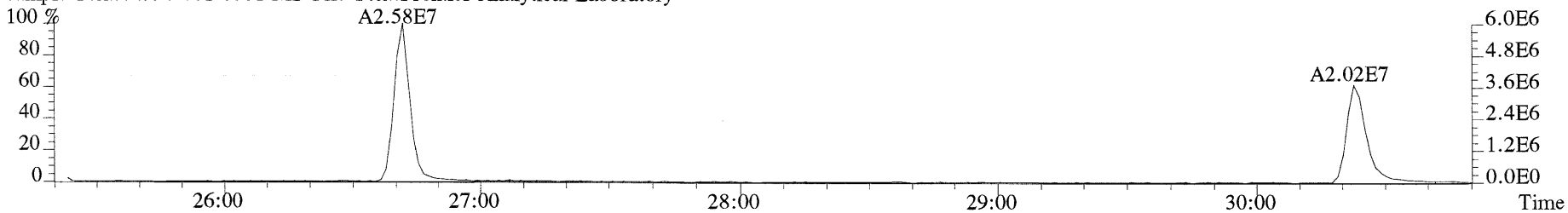

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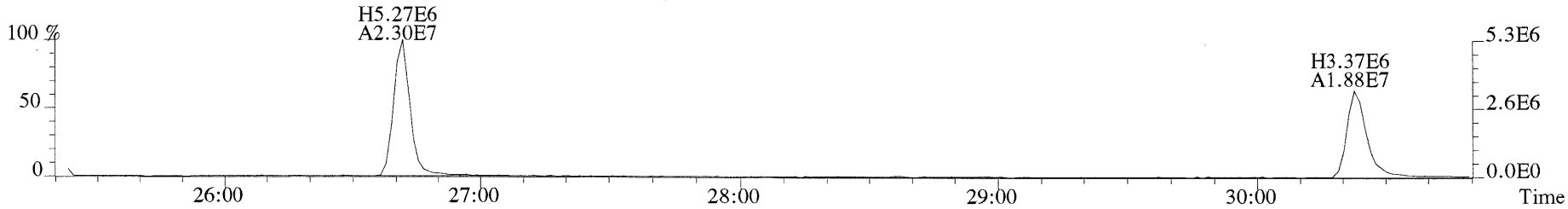

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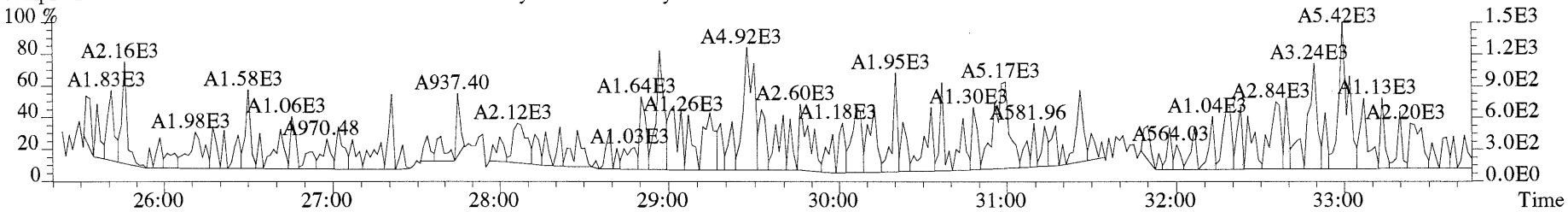
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



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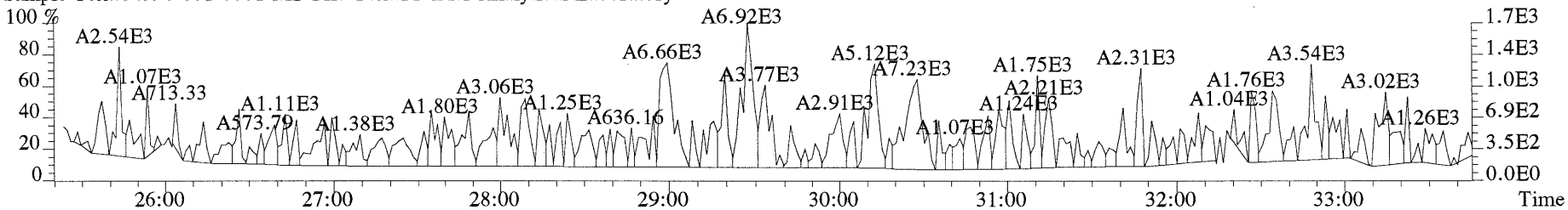
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



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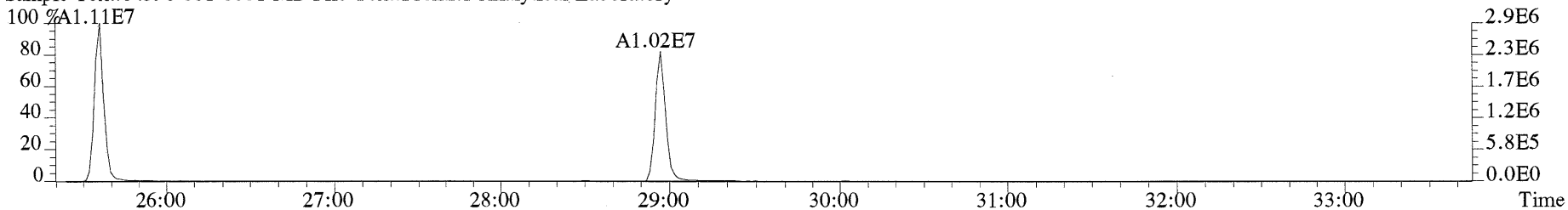
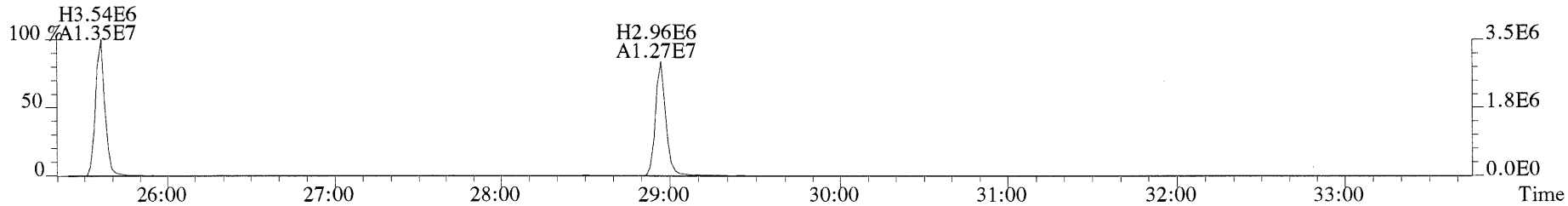
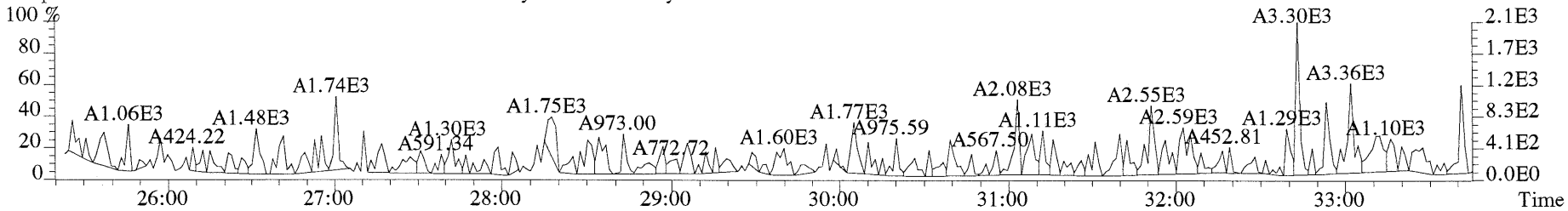
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



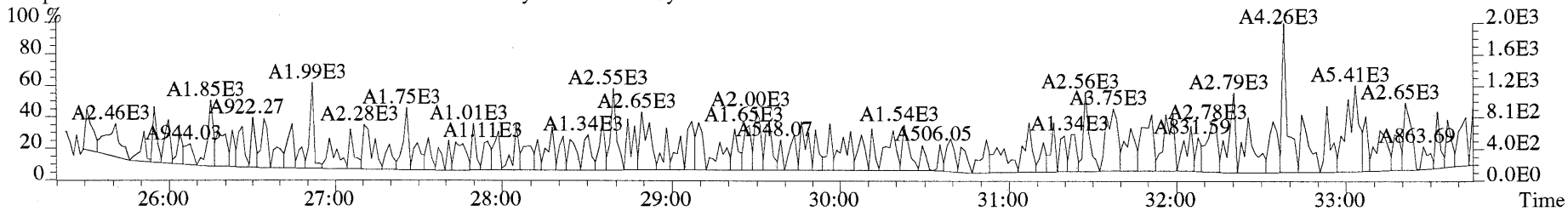
File:30JUL18Z #1-401 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-401 Acq:30-JUL-2018 13:14:46 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:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-401 Acq:30-JUL-2018 13:14:46 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:04590-001-0001-MB File Text:Frontier Analytical Laboratory



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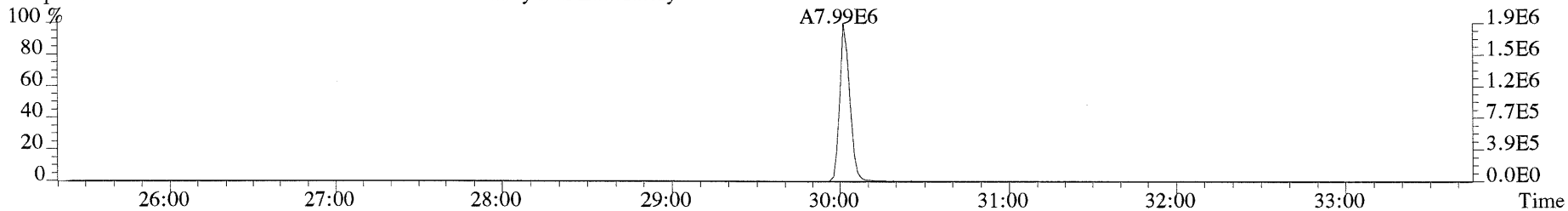
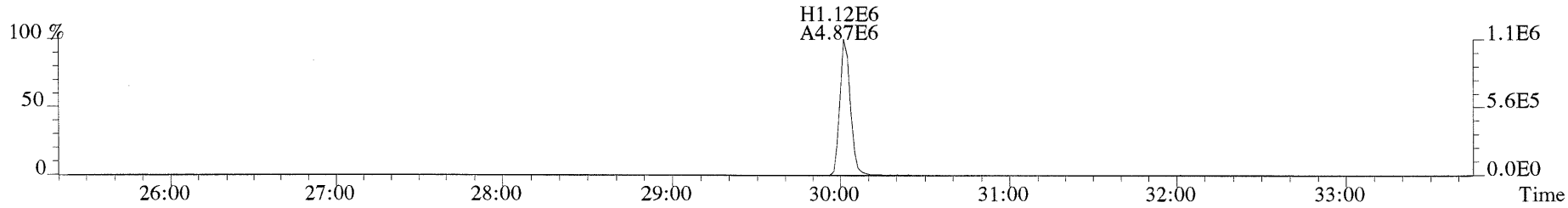
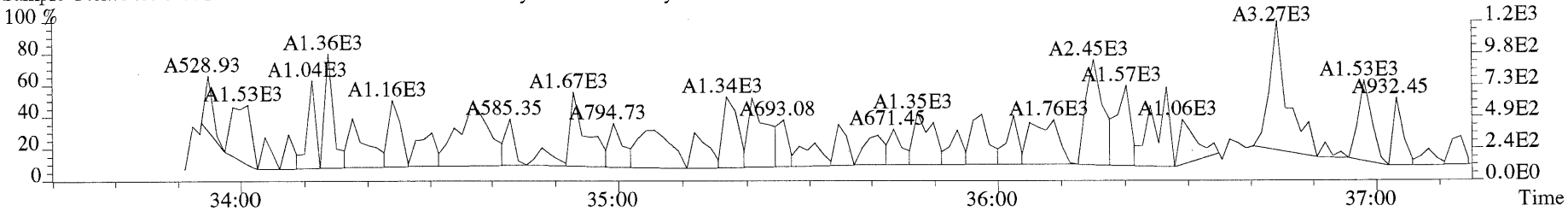
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



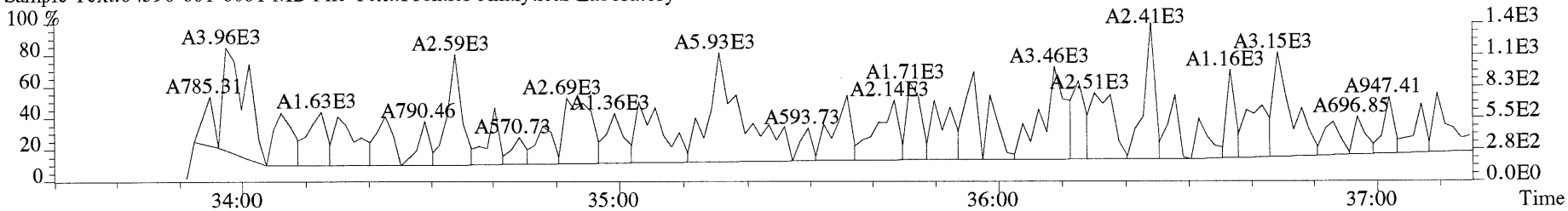
File:30JUL18Z #1-401 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-183 Acq:30-JUL-2018 13:14:46 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:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-183 Acq:30-JUL-2018 13:14:46 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:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-183 Acq:30-JUL-2018 13:14:46 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
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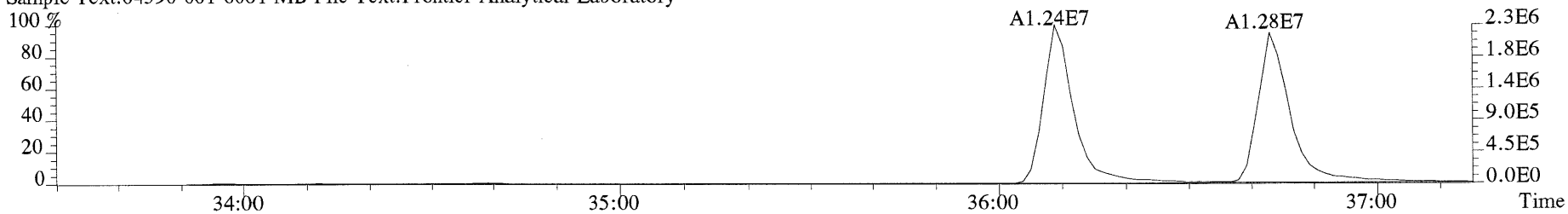
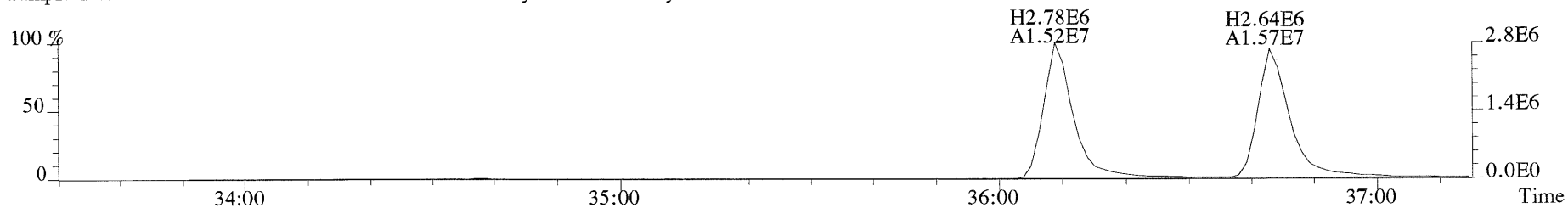
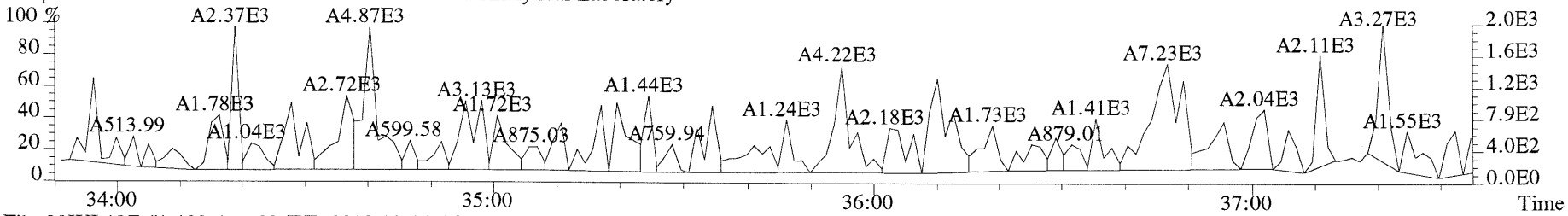


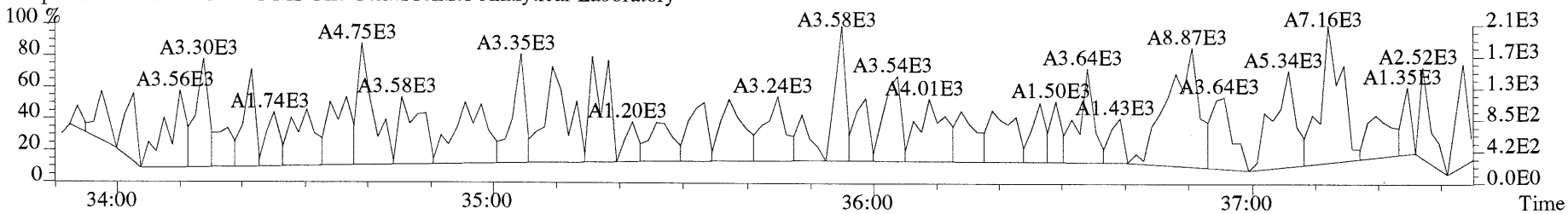
File:30JUL18Z #1-183 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



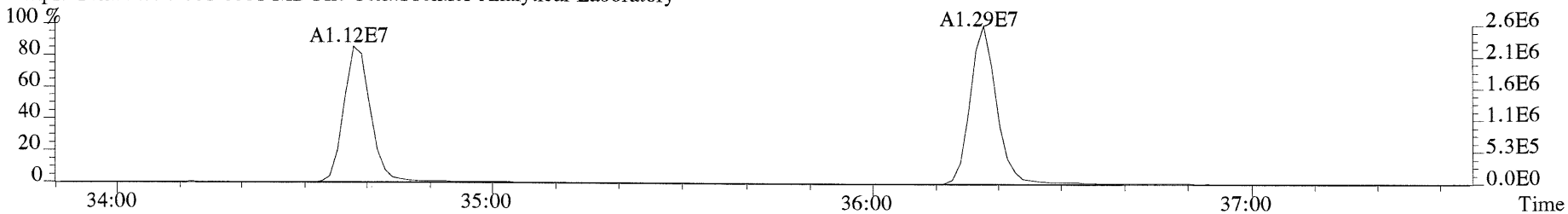
File:30JUL18Z #1-183 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



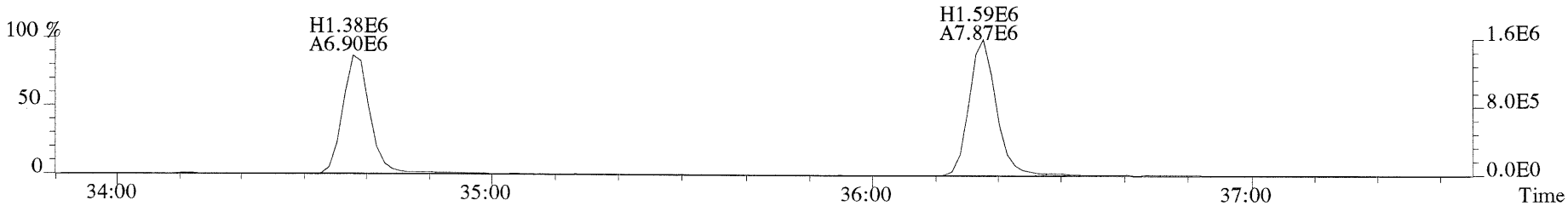
File:30JUL18Z #1-183 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-183 Acq:30-JUL-2018 13:14:46 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:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-183 Acq:30-JUL-2018 13:14:46 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:04590-001-0001-MB File Text:Frontier Analytical Laboratory



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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
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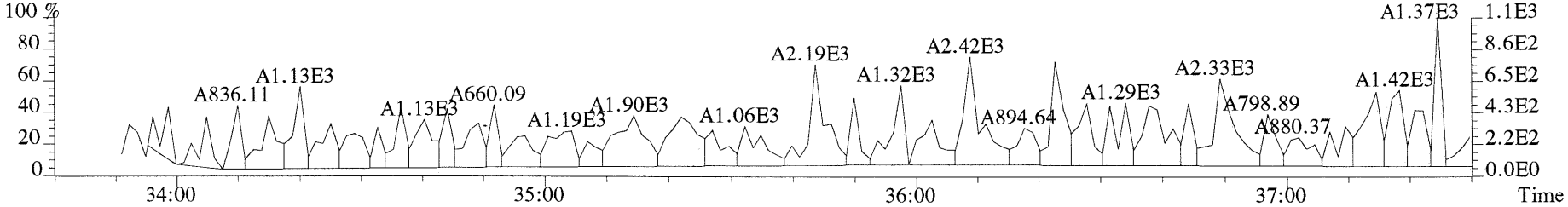
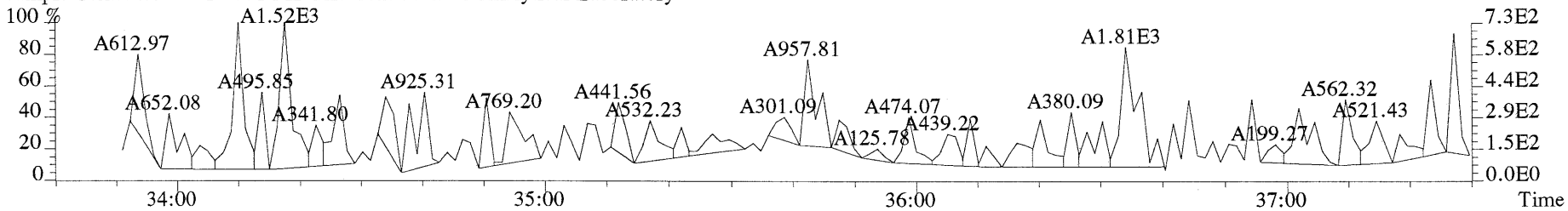
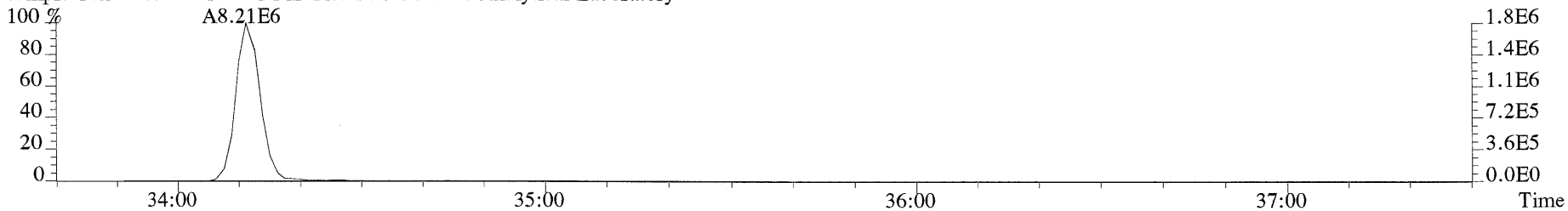


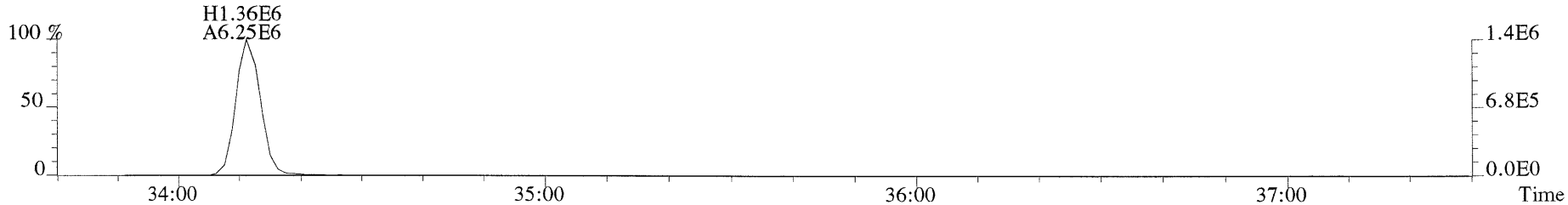
File:30JUL18Z #1-183 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



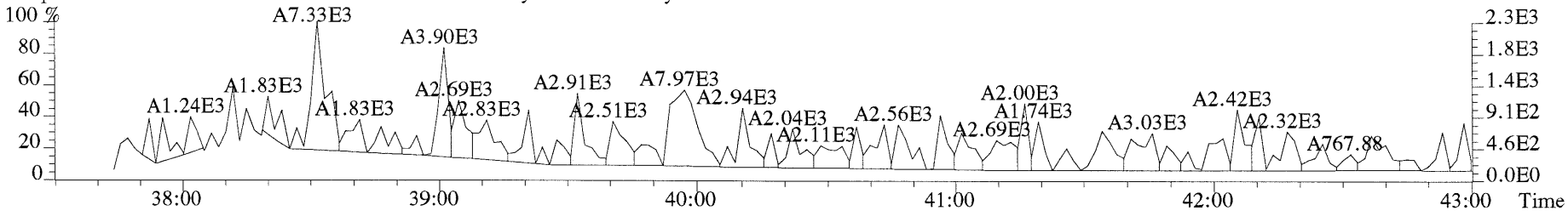
File:30JUL18Z #1-183 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



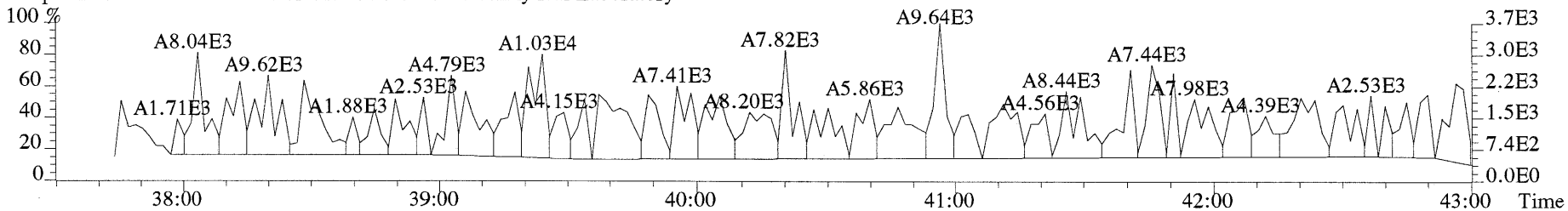
File:30JUL18Z #1-183 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



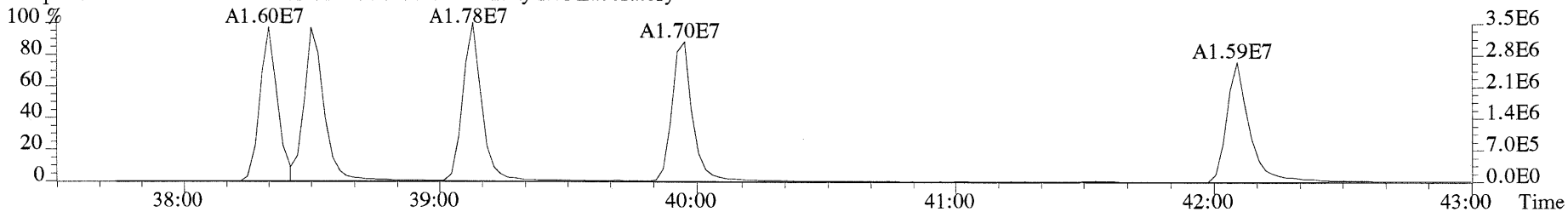
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



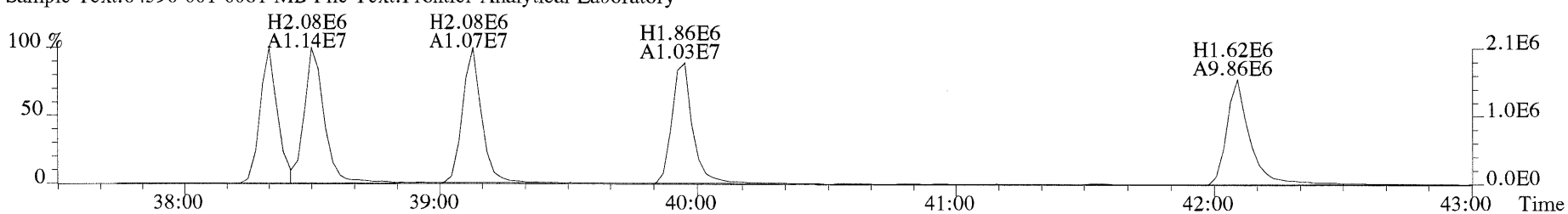
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



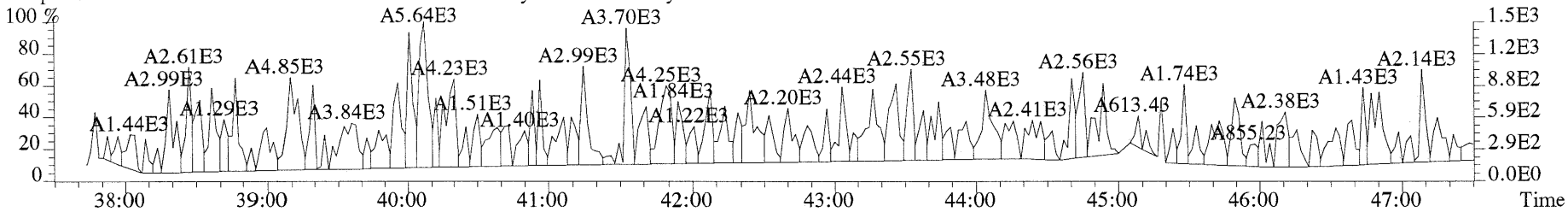
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



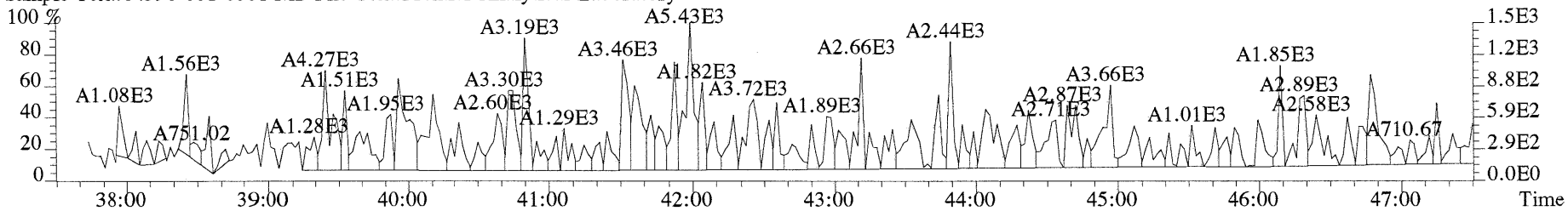
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



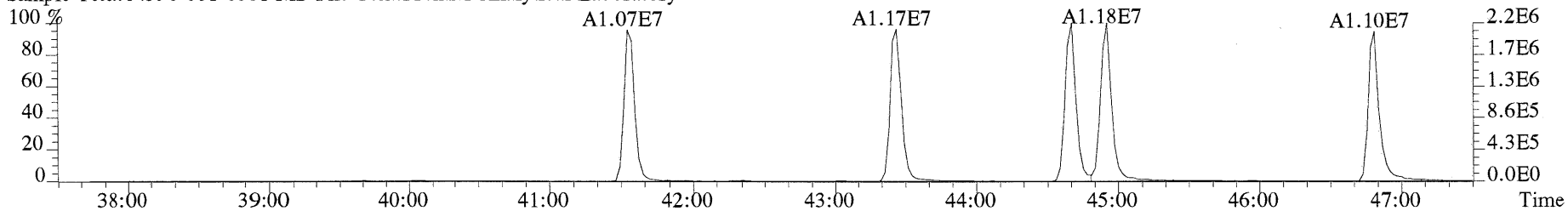
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



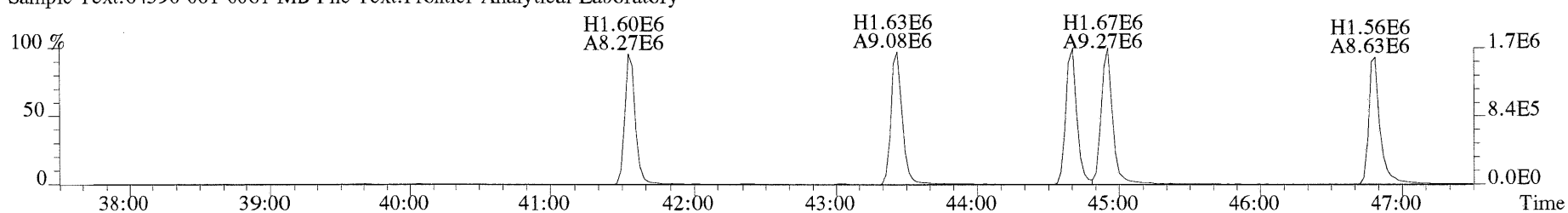
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



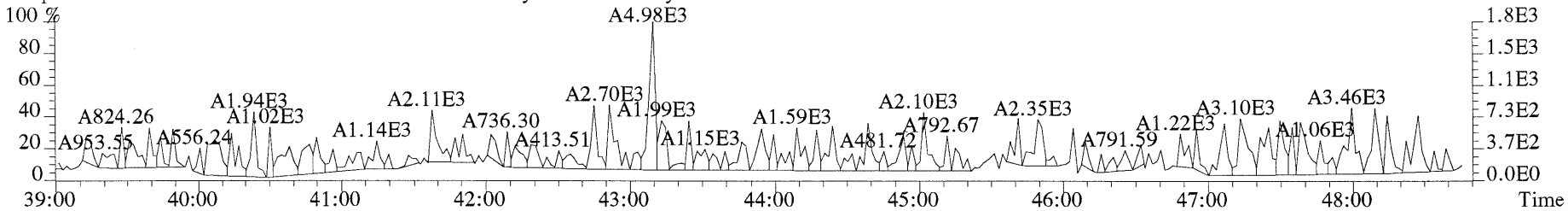
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



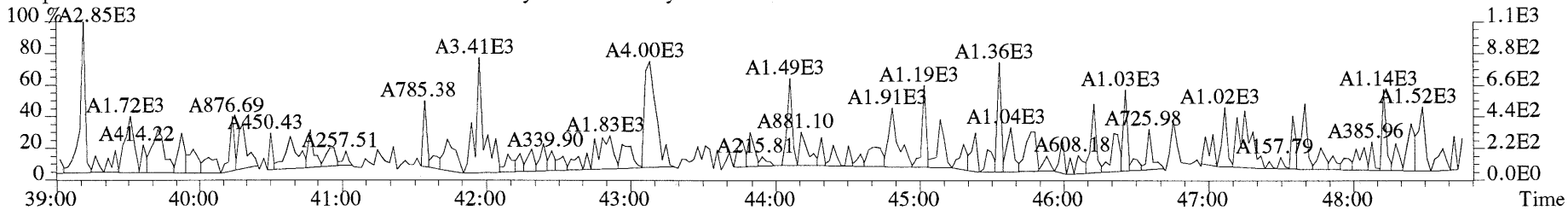
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



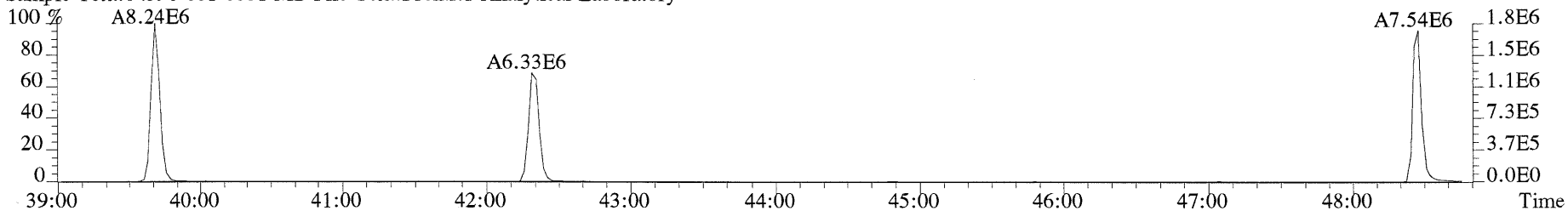
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



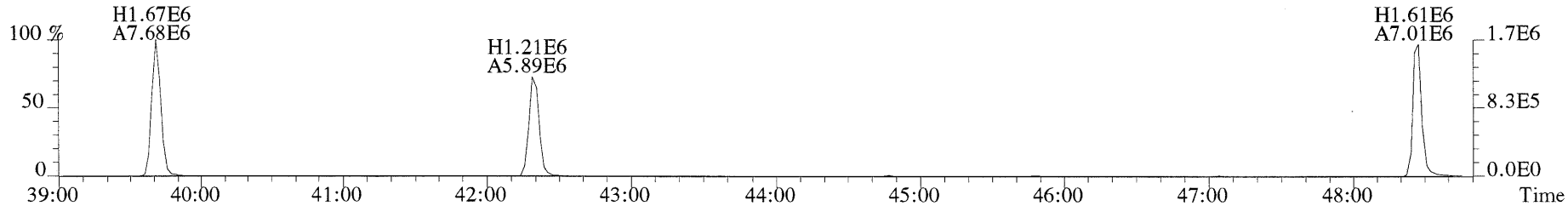
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



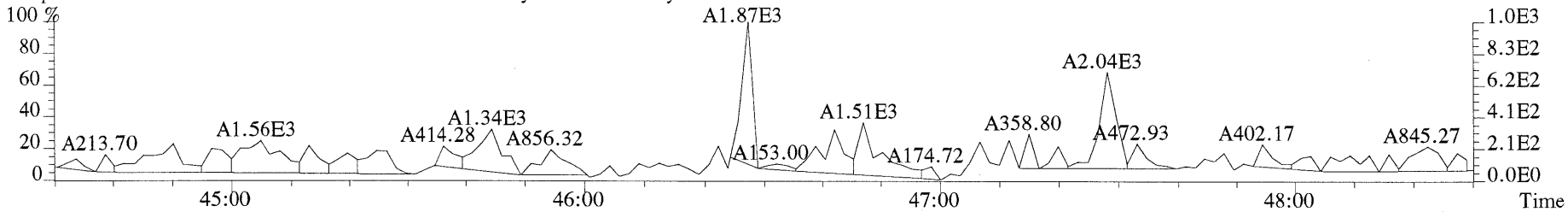
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



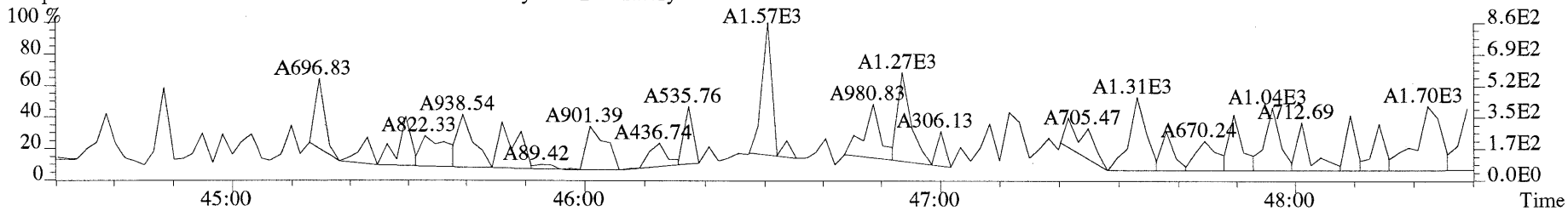
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



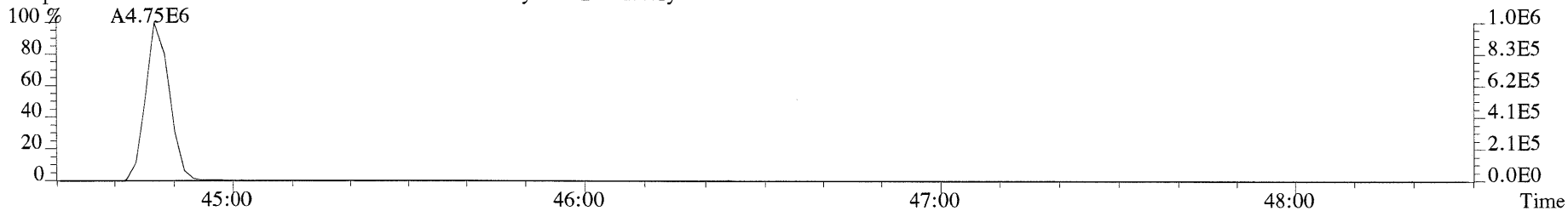
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



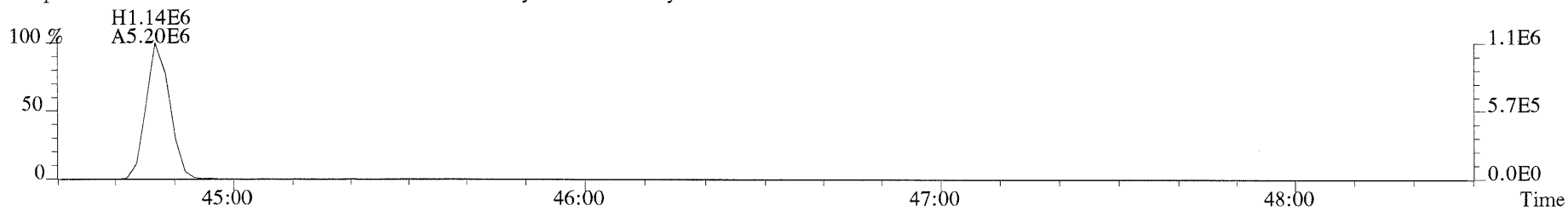
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



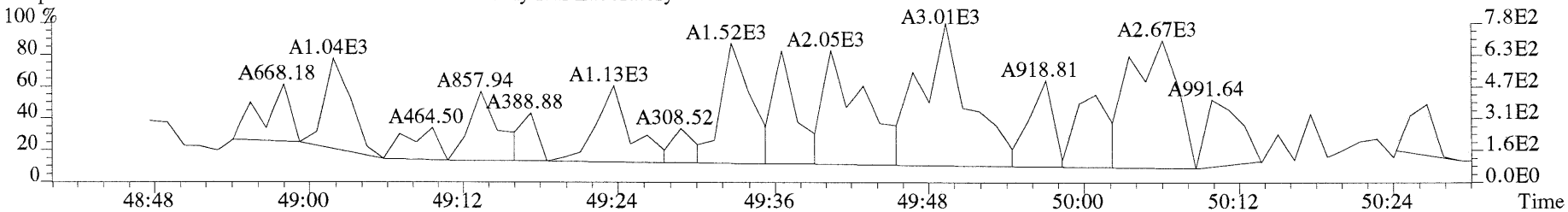
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



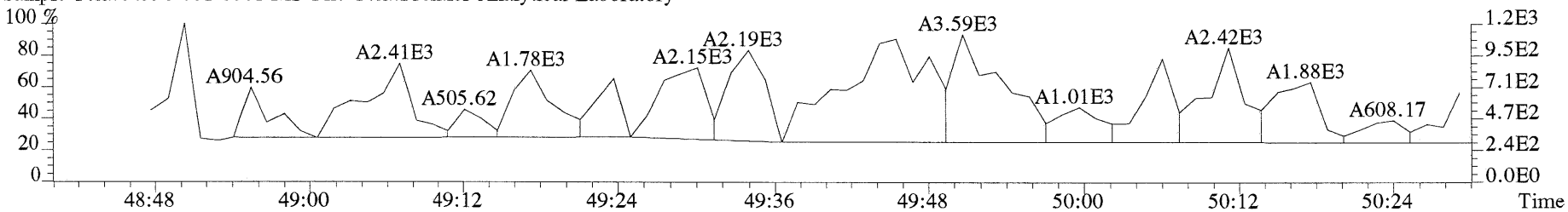
File:30JUL18Z #1-403 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



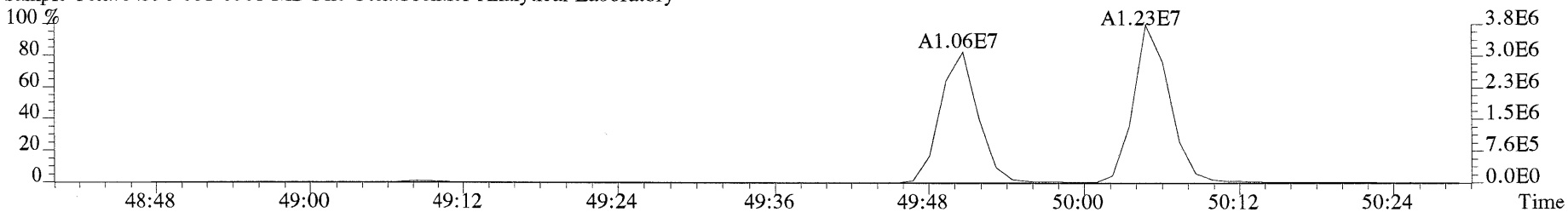
File:30JUL18Z #1-250 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



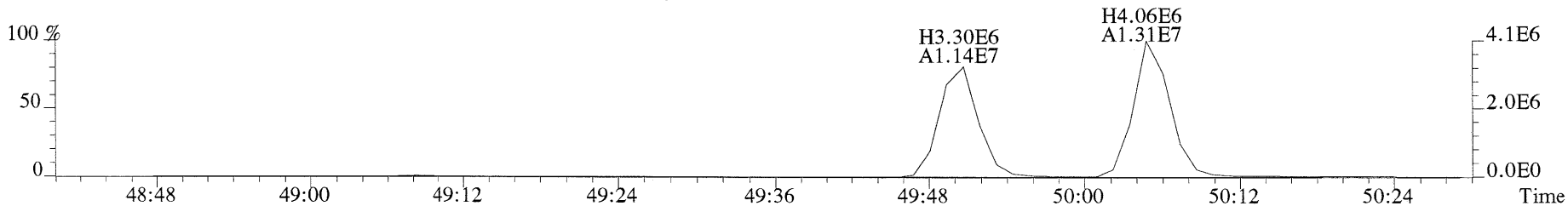
File:30JUL18Z #1-250 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



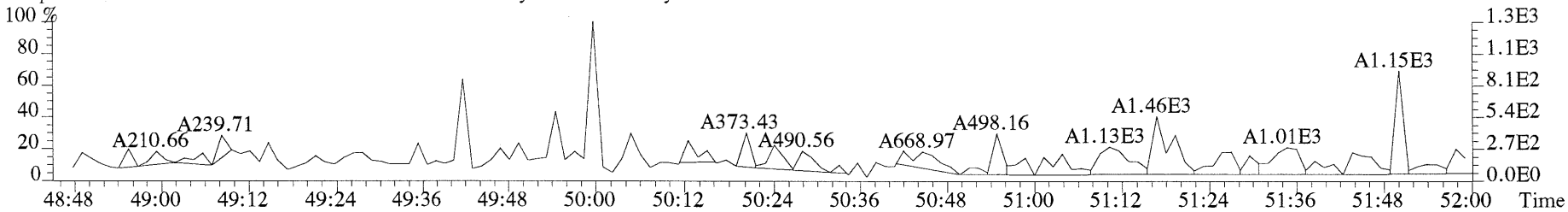
File:30JUL18Z #1-250 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



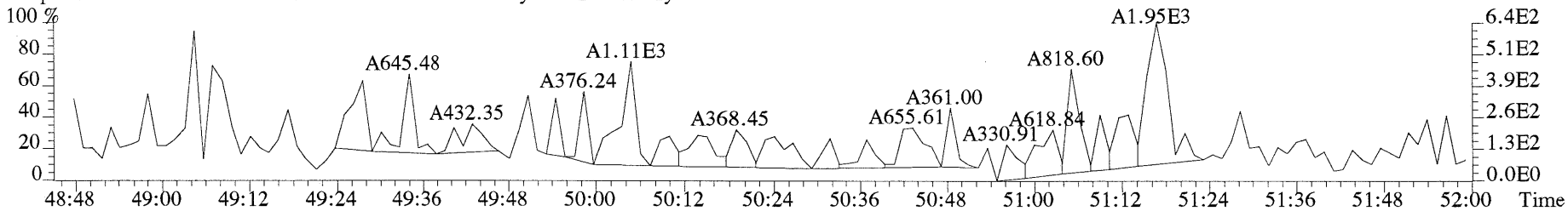
File:30JUL18Z #1-250 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



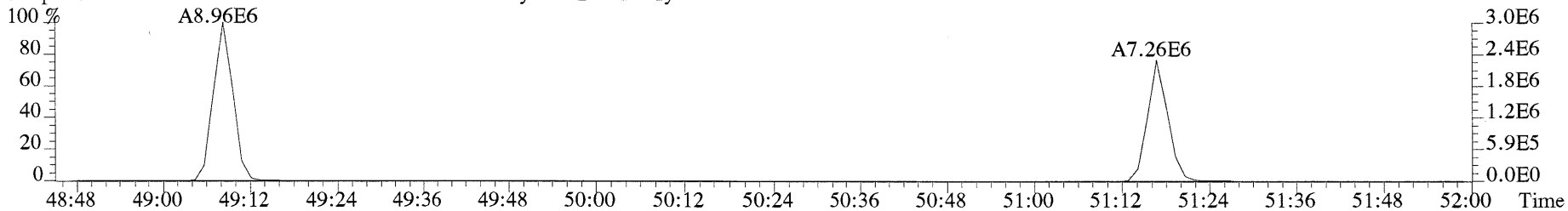
File:30JUL18Z #1-251 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



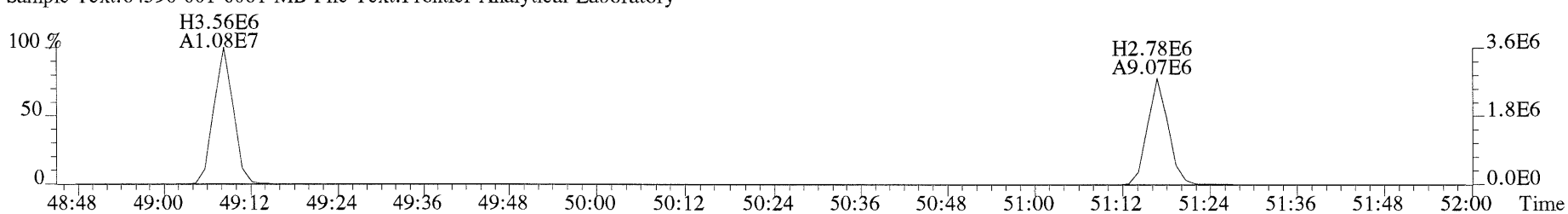
File:30JUL18Z #1-251 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



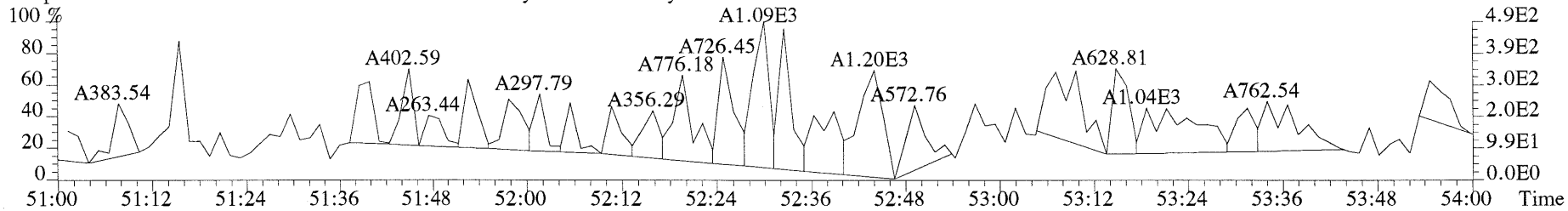
File:30JUL18Z #1-251 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



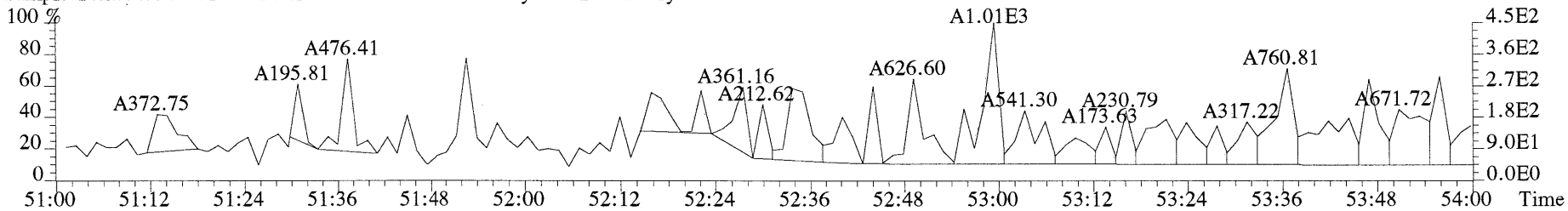
File:30JUL18Z #1-251 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



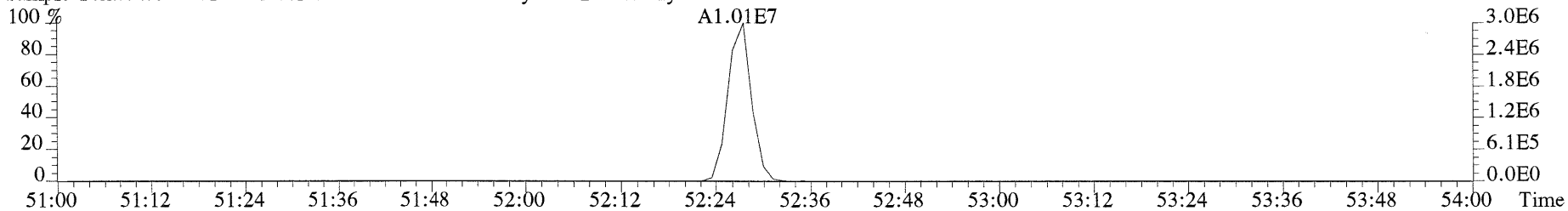
File:30JUL18Z #1-252 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



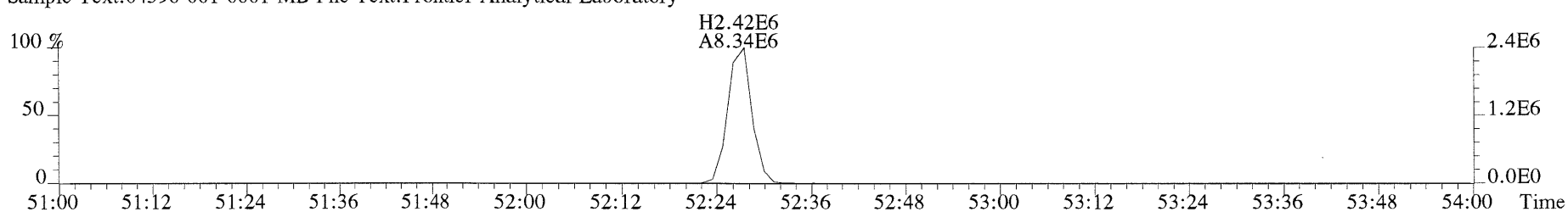
File:30JUL18Z #1-252 Acq:30-JUL-2018 13:14:46 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-253 Acq:30-JUL-2018 13:14:46 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:04590-001-0001-MB File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-253 Acq:30-JUL-2018 13:14:46 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:04590-001-0001-MB File Text:Frontier Analytical Laboratory



4590-001-0001-OPR

Frontier Analytical Laboratory

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

Lab Name: Frontier Analytical Laboratory

Matrix (aqueous/solid/leachate): Solid OPR Data Filename: 30JUL18Z Sam:3

Ext. Date: 7/26/18 Shift: Day Analysis Date: 30-JUL-18 12:16:25

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	59.1	30.0 - 67.5
PCB-3	50	61.5	30.0 - 67.5
PCB-4	50	52.8	30.0 - 67.5
PCB-15	50	54.5	30.0 - 67.5
PCB-19	50	61.2	30.0 - 67.5
PCB-37	50	56.2	30.0 - 67.5
PCB-54	50	61.2	30.0 - 67.5
PCB-77	50	61.8	30.0 - 67.5
PCB-81	50	59.0	30.0 - 67.5
PCB-104	50	59.8	30.0 - 67.5
PCB-105	50	59.4	30.0 - 67.5
PCB-114	50	59.3	30.0 - 67.5
PCB-118	50	64.2	30.0 - 67.5
PCB-123	50	51.5	30.0 - 67.5
PCB-126	50	59.1	30.0 - 67.5
PCB-155	50	61.2	30.0 - 67.5
PCB-156	50	62.1	30.0 - 67.5
PCB-157	50	58.9	30.0 - 67.5
PCB-167	50	64.8	30.0 - 67.5
PCB-169	50	63.4	30.0 - 67.5
PCB-188	50	62.7	30.0 - 67.5
PCB-189	50	63.4	30.0 - 67.5
PCB-202	50	66.7	30.0 - 67.5
PCB-205	50	63.0	30.0 - 67.5
PCB-206	50	62.9	30.0 - 67.5
PCB-208	50	61.8	30.0 - 67.5
PCB-209	50	62.0	30.0 - 67.5

Analyst: [signature] Date: 8/1/18

Frontier Analytical Laboratory

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

Lab Name: Frontier Analytical Laboratory

Matrix (aqueous/solid/leachate): Solid OPR Data Filename: 30JUL18Z Sam:3

Ext. Date: 7/26/18 Shift: Day Analysis Date: 30-JUL-18 12:16:25

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	85.7	15.0 - 145
13C-PCB-3	100	85.3	15.0 - 145
13C-PCB-4	100	87.2	15.0 - 145
13C-PCB-15	100	93.0	15.0 - 145
13C-PCB-19	100	87.7	15.0 - 145
13C-PCB-37	100	91.8	15.0 - 145
13C-PCB-54	100	91.2	15.0 - 145
13C-PCB-77	100	94.7	40.0 - 145
13C-PCB-81	100	95.7	40.0 - 145
13C-PCB-104	100	89.5	40.0 - 145
13C-PCB-105	100	91.3	40.0 - 145
13C-PCB-114	100	96.9	40.0 - 145
13C-PCB-118	100	95.4	40.0 - 145
13C-PCB-123	100	93.8	40.0 - 145
13C-PCB-126	100	94.3	40.0 - 145
13C-PCB-155	100	91.8	40.0 - 145
13C-PCB-156	100	90.6	40.0 - 145
13C-PCB-157	100	91.4	40.0 - 145
13C-PCB-167	100	90.2	40.0 - 145
13C-PCB-169	100	94.1	40.0 - 145
13C-PCB-188	100	88.4	40.0 - 145
13C-PCB-189	100	90.1	40.0 - 145
13C-PCB-202	100	87.3	40.0 - 145
13C-PCB-205	100	87.2	40.0 - 145
13C-PCB-206	100	86.2	40.0 - 145
13C-PCB-208	100	83.5	40.0 - 145
13C-PCB-209	100	84.6	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	104	15.0 - 145
13C-PCB-111	100	96.9	40.0 - 145
13C-PCB-178	100	93.8	40.0 - 145

Analyst: [signature] Date: 8/1/18

FAL ID: 04590-001-0001-OPR Filename: 30JUL18Z Sam:3 Acquired: 30-JUL-18 12:16:25 ICal: DAILY209FAL4-7-30-18
Client ID: OPR ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 1.000

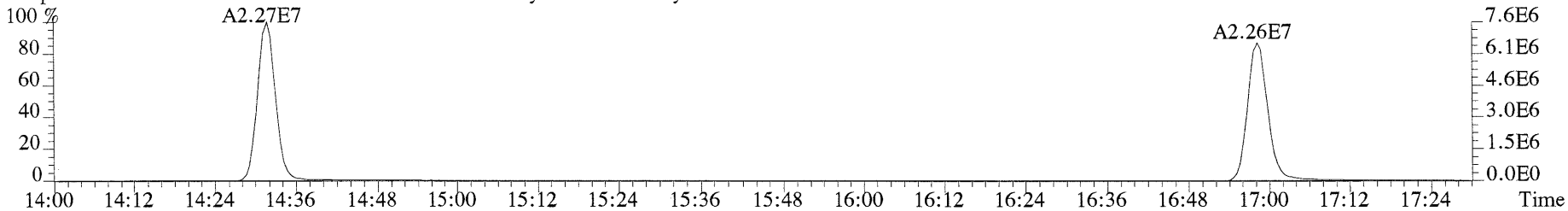
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.98e+07	3.18 y	14:32	1.20	59.1		2.50	-	-	*	
13C-PCB-1	4.21e+07	3.17 y	14:31	0.92	85.7		2.50				85.7
PCB-3	2.98e+07	3.18 y	16:58	1.19	61.5		2.50	-	-	*	
13C-PCB-3	4.08e+07	3.25 y	16:57	0.90	85.3		2.50				85.3
PCB-4	2.31e+07	1.56 y	18:12	1.40	52.8		2.50	-	-	*	
13C-PCB-4	3.13e+07	1.62 y	18:11	0.68	87.2		2.50				87.2
PCB-15	3.55e+07	1.57 y	23:45	1.33	54.5		2.50	-	-	*	
13C-PCB-15	4.92e+07	1.63 y	23:44	1.00	93.0		2.50				93.0
PCB-19	1.42e+07	1.06 y	22:05	1.21	61.2		2.50	-	-	*	
13C-PCB-19	1.93e+07	1.09 y	22:04	0.41	87.7		2.50				87.7
13C-PCB-9	5.31e+07	1.64 y	19:52	-	72.6		2.50				
PCB-37	3.01e+07	1.07 y	30:24	1.37	56.2		2.50	-	-	*	
13C-PCB-37	3.93e+07	1.11 y	30:24	1.82	91.8		2.50				91.8
PCB-54	1.83e+07	0.82 y	25:37	1.19	61.2		2.50	-	-	*	
13C-PCB-54	2.51e+07	0.82 y	25:37	1.17	91.2		2.50				91.2
PCB-104	1.03e+07	1.57 y	30:03	1.32	59.8		2.50	-	-	*	
13C-PCB-104	1.31e+07	1.63 y	30:02	0.62	89.5		2.50				89.5
13C-PCB-28	5.13e+07	1.09 y	26:41	2.10	104		2.50				104
13C-PCB-52	2.35e+07	0.81 y	28:56	-	69.7		2.50				
PCB-81	2.22e+07	0.80 y	36:10	1.33	59.0		2.50	-	-	*	
13C-PCB-81	2.84e+07	0.82 y	36:08	1.59	95.7		2.50				95.7
PCB-77	2.20e+07	0.79 y	36:45	1.22	61.8		2.50	-	-	*	
13C-PCB-77	2.93e+07	0.83 y	36:44	1.65	94.7		2.50				94.7
PCB-155	1.05e+07	1.28 y	34:13	1.16	61.2		2.50	-	-	*	
13C-PCB-155	1.47e+07	1.30 y	34:12	0.86	91.8		2.50				91.8
13C-PCB-111	2.15e+07	1.61 y	36:17	1.18	96.9		2.50				96.9
13C-PCB-101	1.87e+07	1.61 y	34:39	-	67.4		2.50				
PCB-123	1.85e+07	1.57 y	38:21	1.35	51.5		2.50	-	-	*	
13C-PCB-123	2.66e+07	1.62 y	38:20	1.45	93.8		2.50				93.8
PCB-118	2.18e+07	1.59 y	38:31	1.17	64.2		2.50	-	-	*	
13C-PCB-118	2.89e+07	1.64 y	38:31	1.55	95.4		2.50				95.4
PCB-114	1.98e+07	1.59 y	39:09	1.18	59.3		2.50	-	-	*	
13C-PCB-114	2.84e+07	1.61 y	39:07	1.50	96.9		2.50				96.9
PCB-105	1.91e+07	1.61 y	39:58	1.20	59.4		2.50	-	-	*	
13C-PCB-105	2.68e+07	1.66 y	39:57	1.50	91.3		2.50				91.3
PCB-126	1.84e+07	1.59 y	42:07	1.22	59.1		2.50	-	-	*	
13C-PCB-126	2.54e+07	1.66 y	42:05	1.38	94.3		2.50				94.3
PCB-167	1.39e+07	1.28 y	43:27	1.06	64.8		2.50	-	-	*	
13C-PCB-167	2.02e+07	1.25 y	43:26	1.15	90.2		2.50				90.2
PCB-156	1.36e+07	1.25 y	44:41	1.12	62.1		2.50	-	-	*	
13C-PCB-156	1.95e+07	1.29 y	44:40	1.10	90.6		2.50				90.6
PCB-157	1.36e+07	1.26 y	44:56	1.13	58.9		2.50	-	-	*	
13C-PCB-157	2.05e+07	1.27 y	44:55	1.15	91.4		2.50				91.4
PCB-169	1.38e+07	1.30 y	46:48	1.09	63.4		2.50	-	-	*	
13C-PCB-169	1.99e+07	1.28 y	46:48	1.08	94.1		2.50				94.1
PCB-188	1.14e+07	1.08 y	39:42	1.14	62.7		2.50	-	-	*	
13C-PCB-188	1.59e+07	1.07 y	39:42	0.92	88.4		2.50				88.4
PCB-189	1.03e+07	1.08 y	48:29	1.12	63.4		2.50	-	-	*	
13C-PCB-189	1.45e+07	1.09 y	48:27	0.82	90.1		2.50				90.1
PCB-202	6.74e+06	0.92 y	44:50	1.01	66.7		2.50	-	-	*	
13C-PCB-202	1.00e+07	0.91 y	44:48	0.59	87.3		2.50				87.3
13C-PCB-178	1.20e+07	1.09 y	42:20	0.65	93.8		2.50				93.8
13C-PCB-138	1.95e+07	1.28 y	41:34	-	67.0		2.50				

FAL ID: 04590-001-0001-OPR Filename: 30JUL18Z Sam:3 Acquired: 30-JUL-18 12:16:25 ICal: DAILY209FAL4-7-30-18 2 of 2
Client ID: OPR ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 1.000

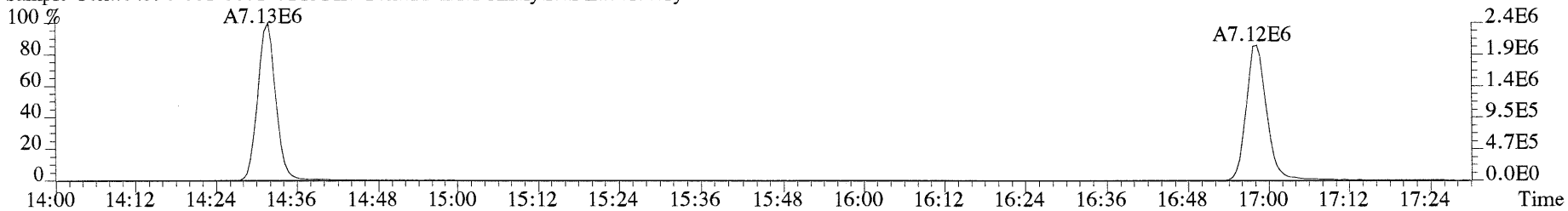
PCB-205	1.81e+07	0.92	y	50:06	1.15	63.0	2.50	-	-	*	
13C-PCB-205	2.51e+07	0.91	y	50:06	1.30	87.2	2.50				87.2
PCB-208	1.25e+07	1.38	y	49:09	1.05	61.8	2.50	-	-	*	
13C-PCB-208	1.92e+07	0.81	y	49:08	1.04	83.5	2.50				83.5
PCB-206	1.07e+07	1.34	y	51:18	1.04	62.9	2.50	-	-	*	
13C-PCB-206	1.64e+07	0.80	y	51:17	0.86	86.2	2.50				86.2
PCB-209	1.25e+07	1.19	y	52:28	1.10	62.0	2.50	-	-	*	
13C-PCB-209	1.83e+07	1.19	y	52:27	0.98	84.6	2.50				84.6
13C-PCB-194	2.21e+07	0.93	y	49:51	-	70.0	2.50				

Analyst: _____ Date: 8/1/18

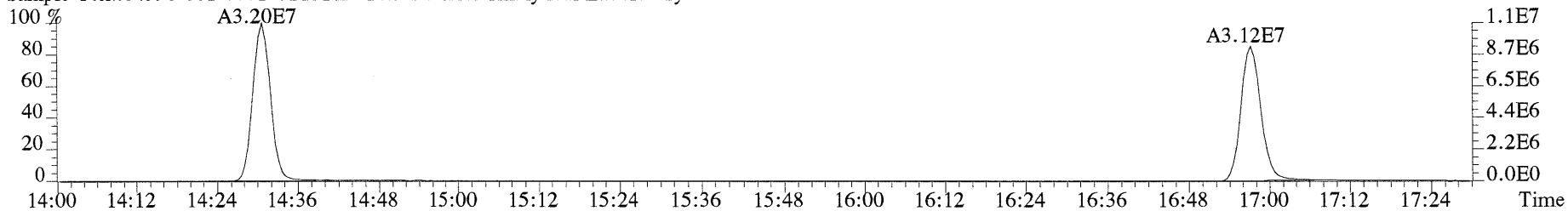
File:30JUL18Z #1-784 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



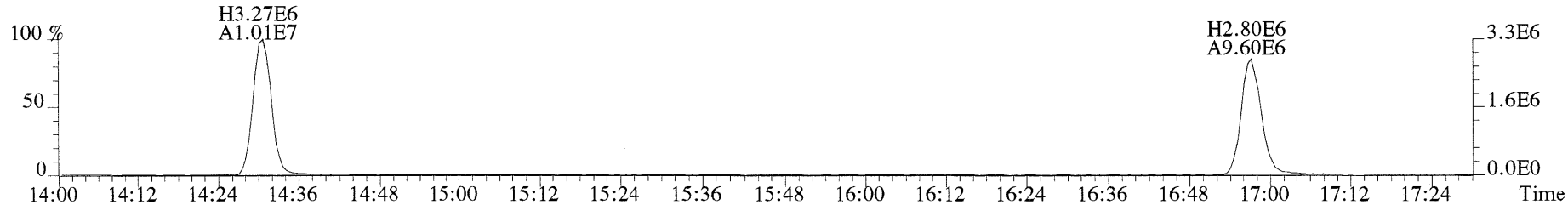
File:30JUL18Z #1-784 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



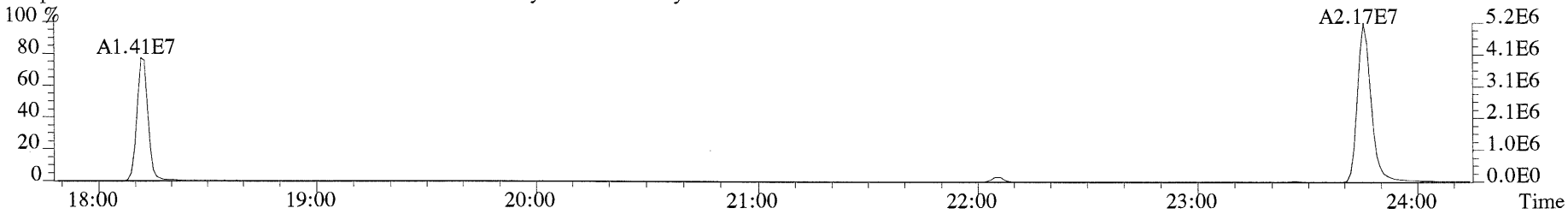
File:30JUL18Z #1-784 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



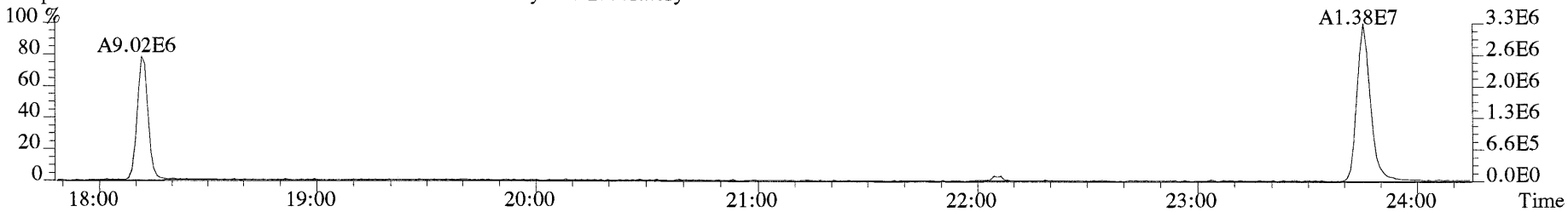
File:30JUL18Z #1-784 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



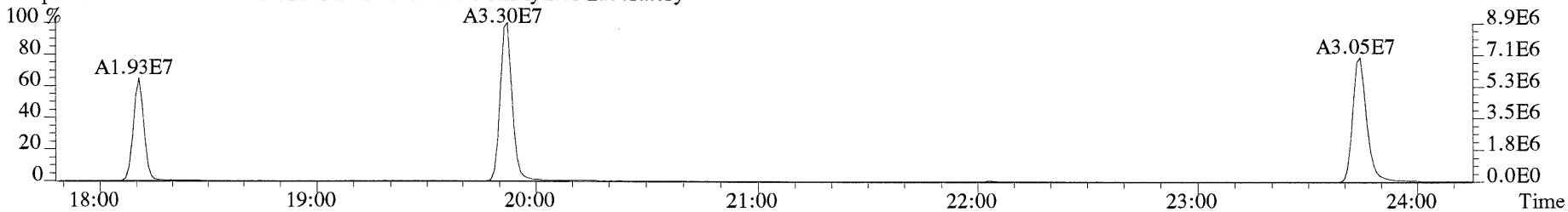
File:30JUL18Z #1-520 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



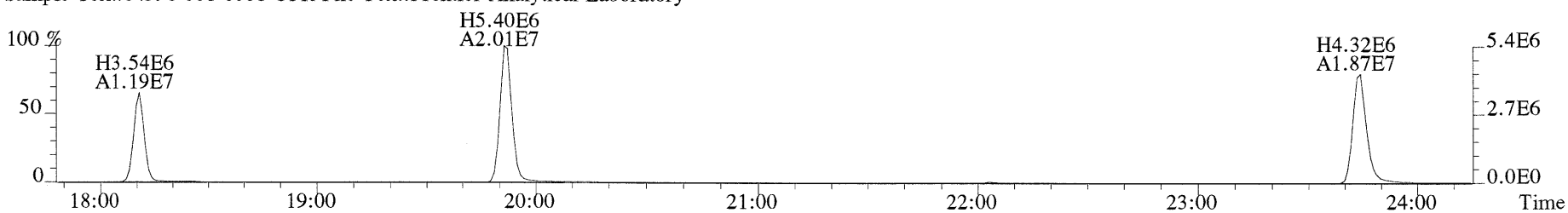
File:30JUL18Z #1-520 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



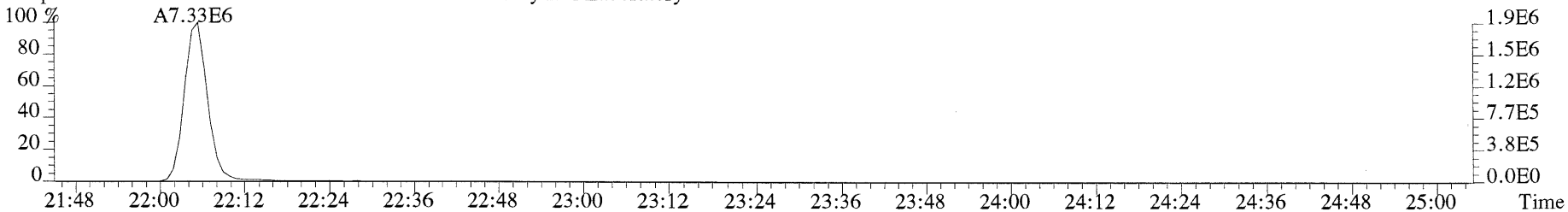
File:30JUL18Z #1-520 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



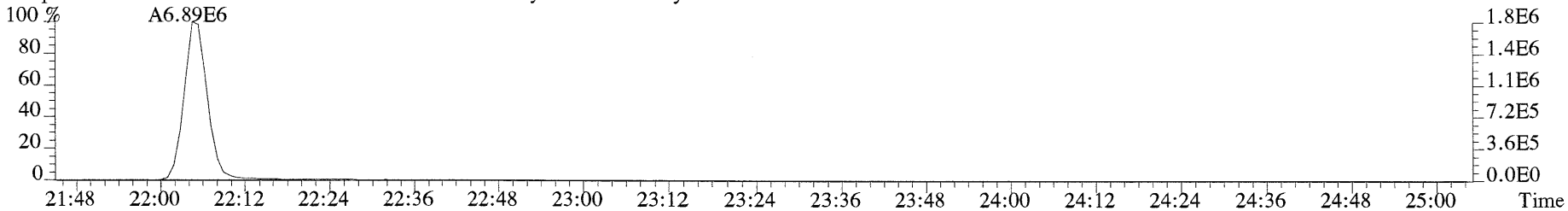
File:30JUL18Z #1-520 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



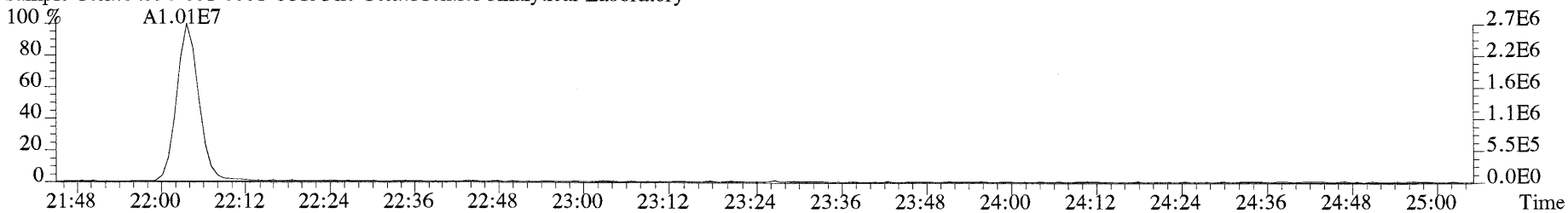
File:30JUL18Z #1-520 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



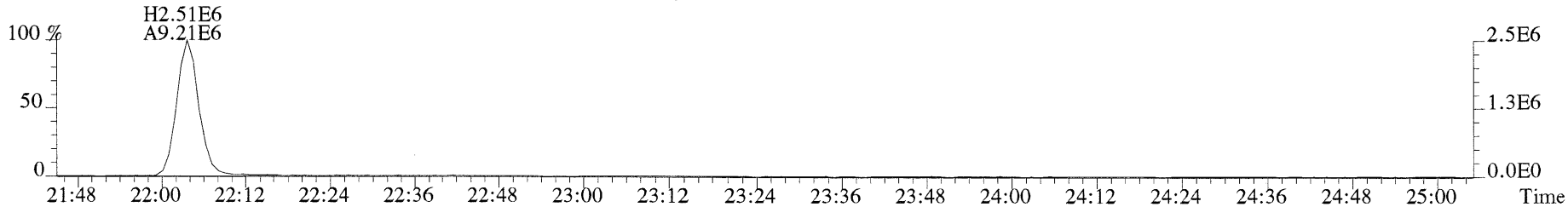
File:30JUL18Z #1-520 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



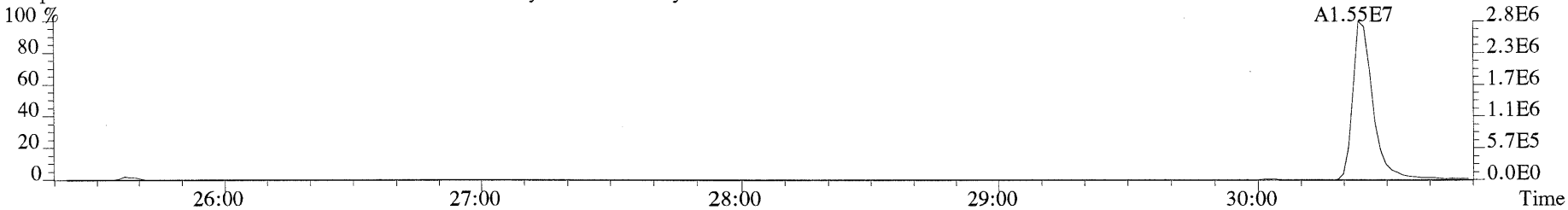
File:30JUL18Z #1-520 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



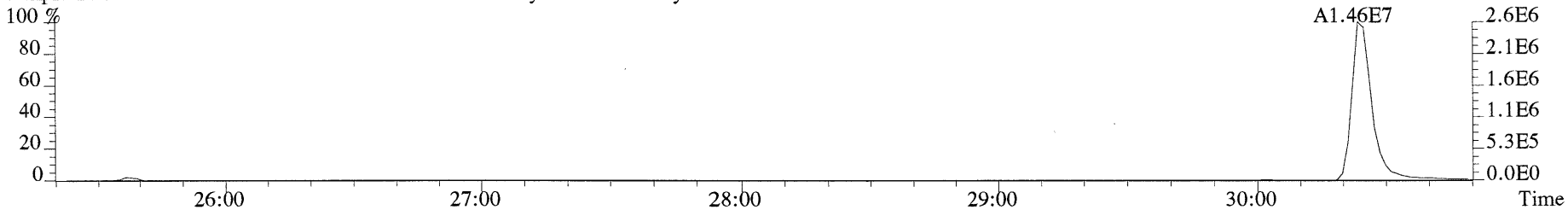
File:30JUL18Z #1-520 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



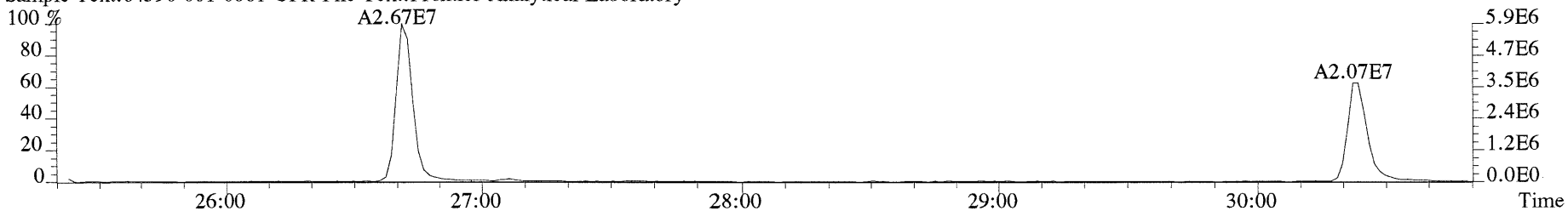
File:30JUL18Z #1-401 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



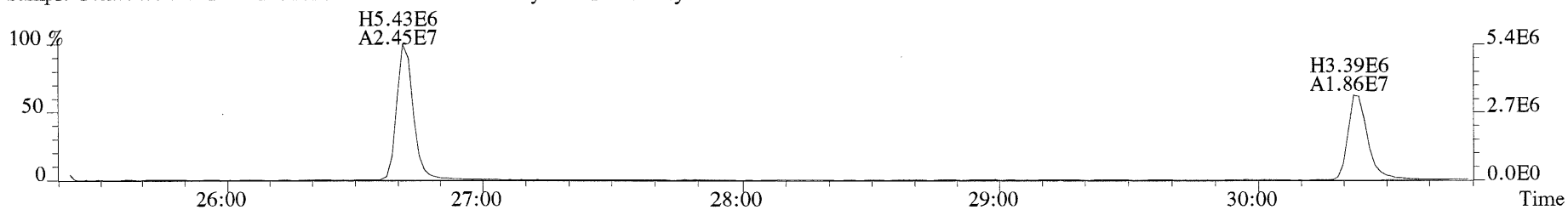
File:30JUL18Z #1-401 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



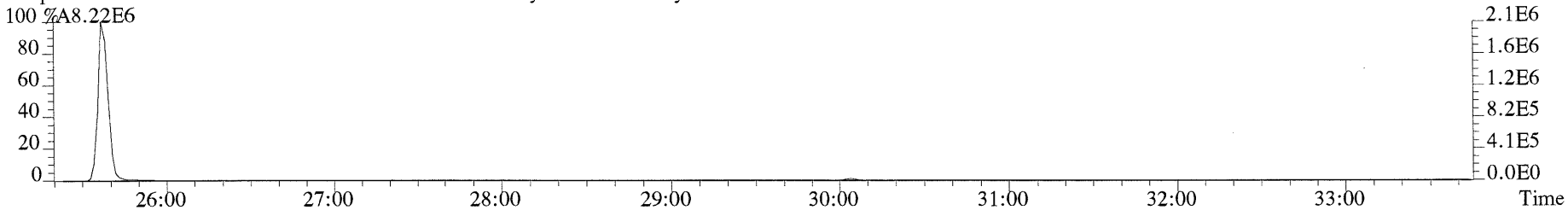
File:30JUL18Z #1-401 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-401 Acq:30-JUL-2018 12:16:25 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:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-401 Acq:30-JUL-2018 12:16:25 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:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



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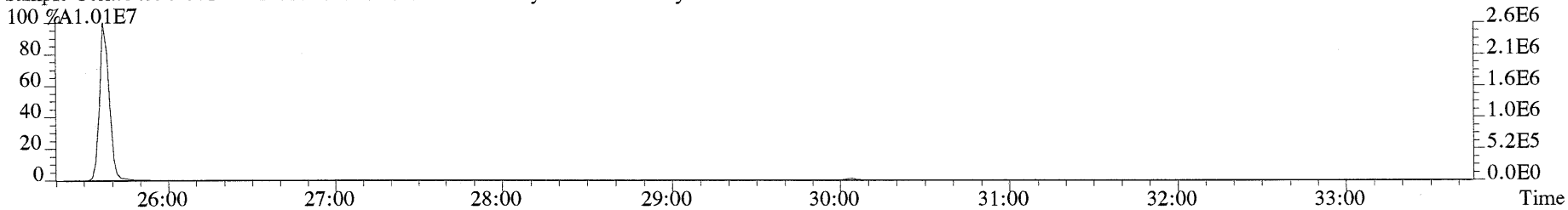
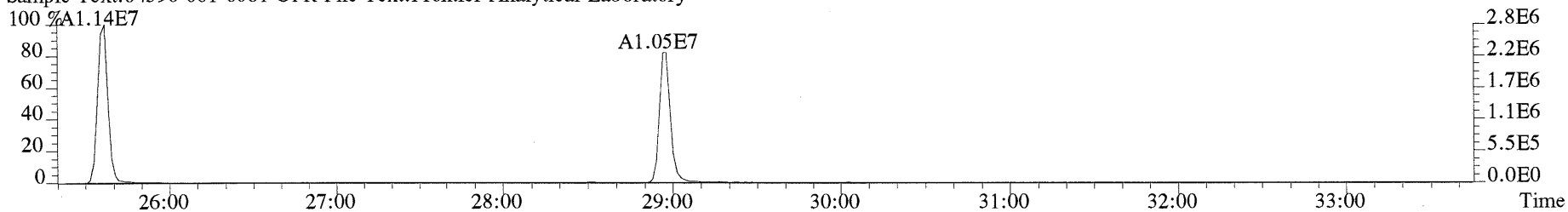
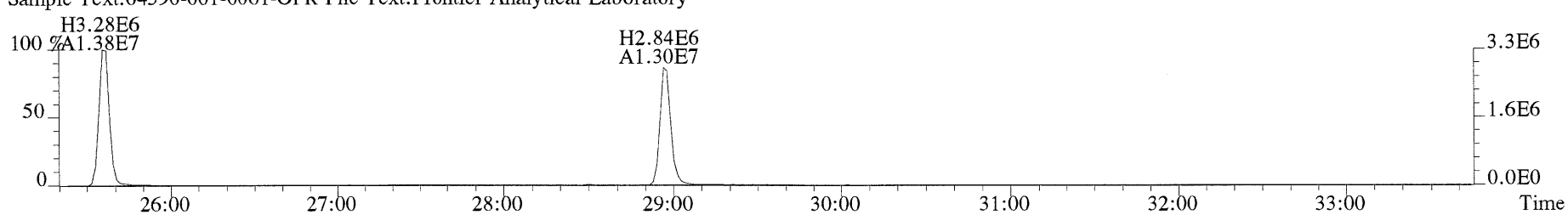
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



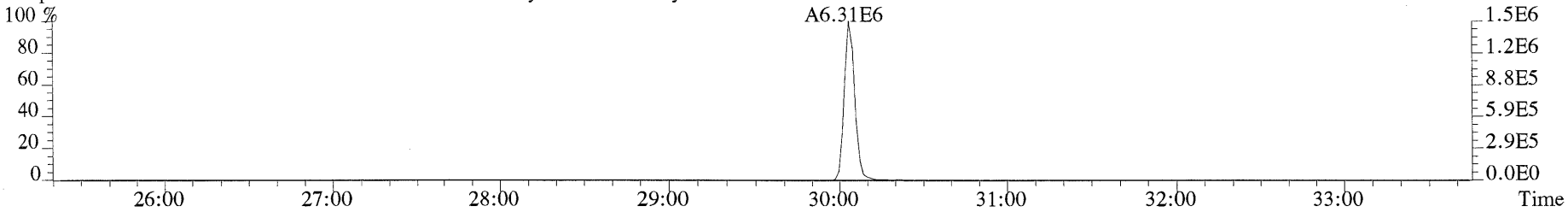
File:30JUL18Z #1-401 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



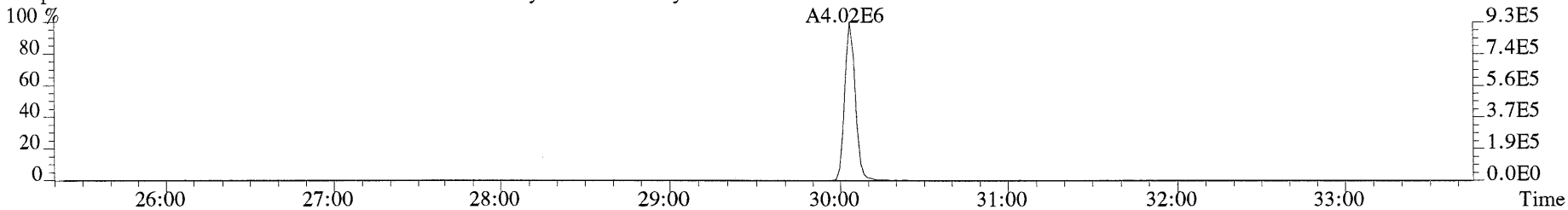
File:30JUL18Z #1-401 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



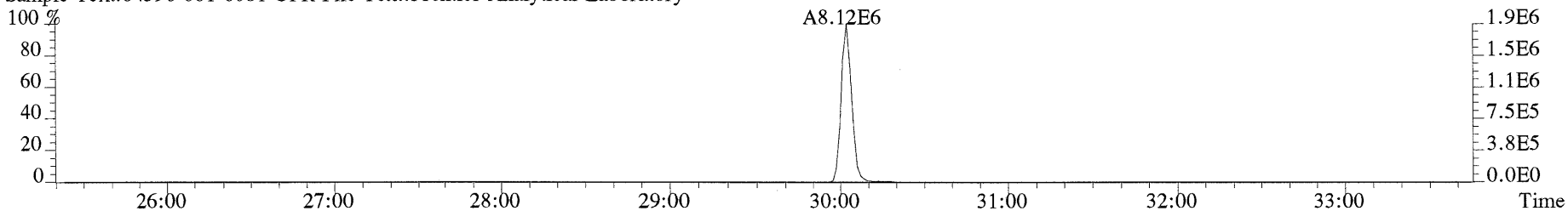
File:30JUL18Z #1-401 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



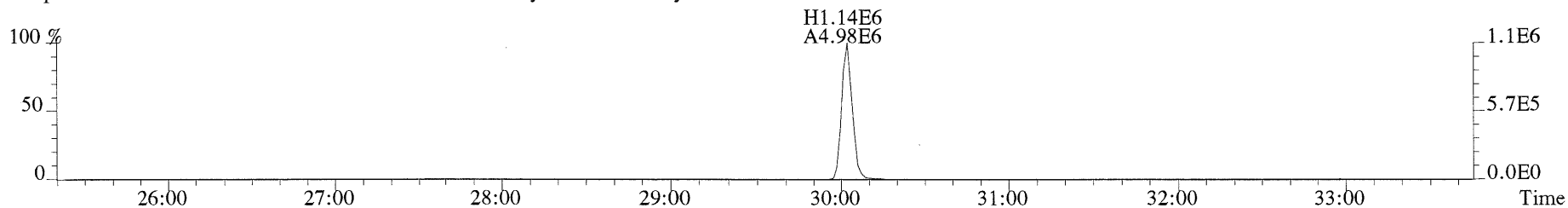
File:30JUL18Z #1-401 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



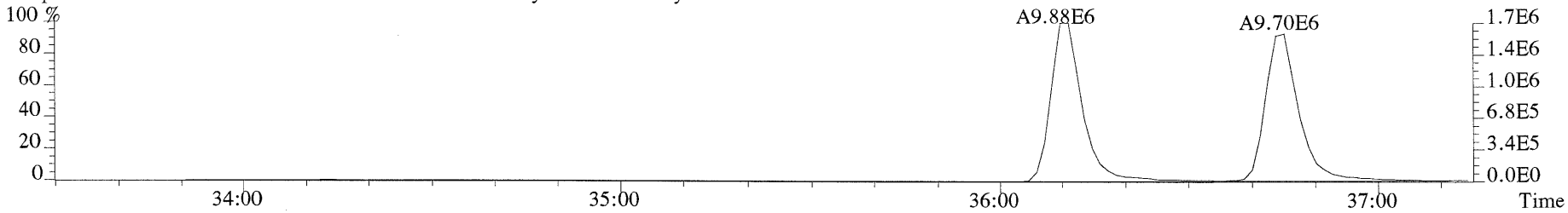
File:30JUL18Z #1-401 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



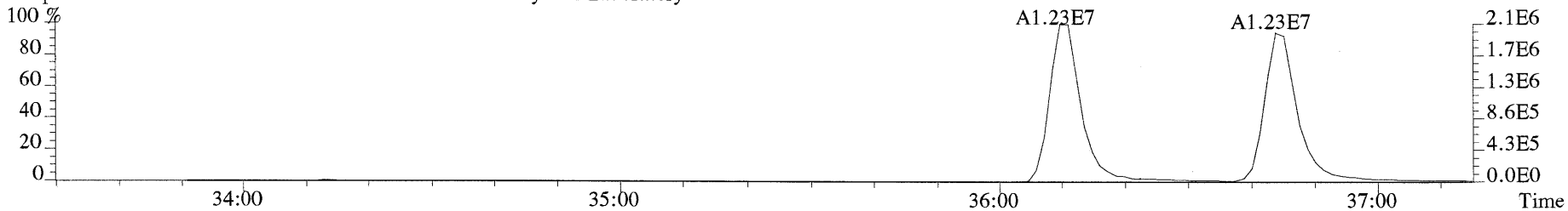
File:30JUL18Z #1-401 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



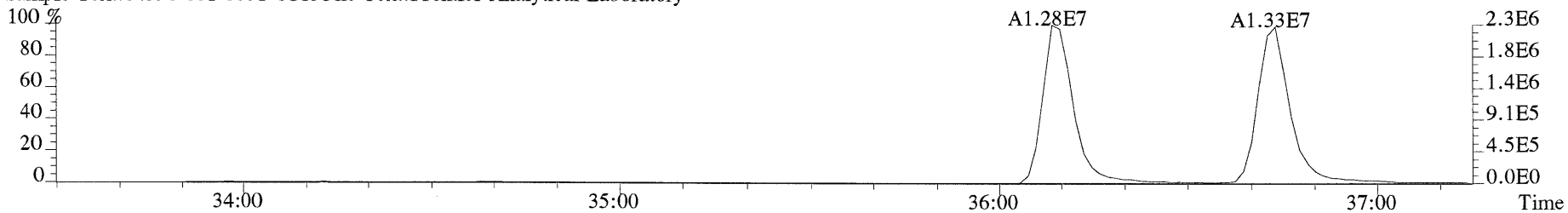
File:30JUL18Z #1-183 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



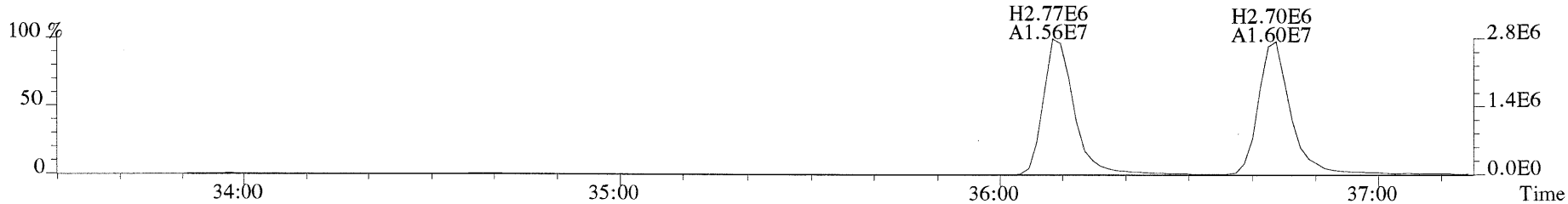
File:30JUL18Z #1-183 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



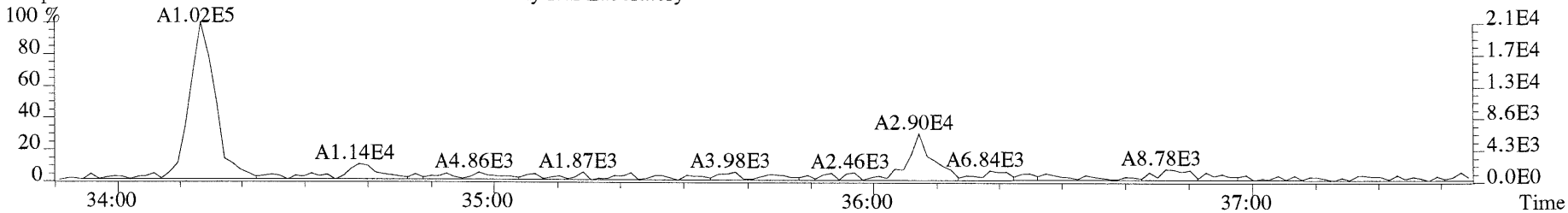
File:30JUL18Z #1-183 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



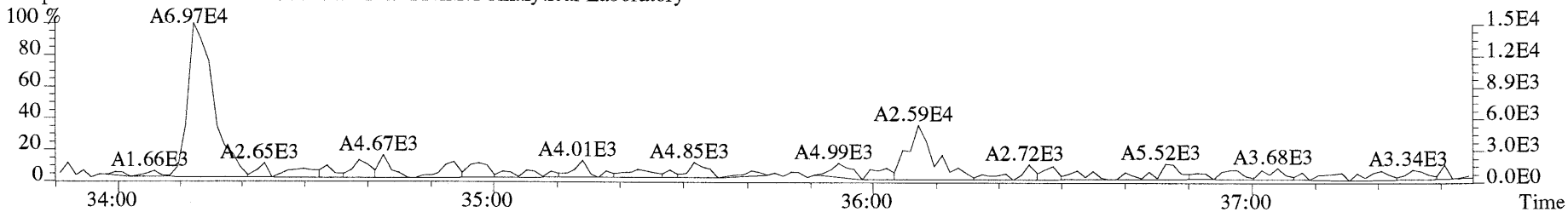
File:30JUL18Z #1-183 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



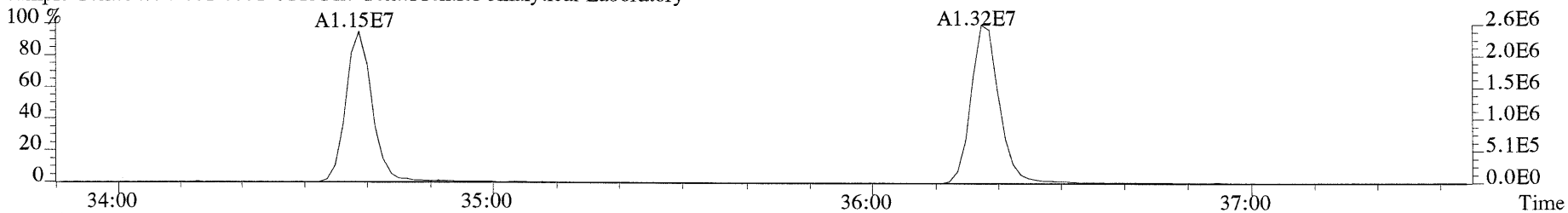
File:30JUL18Z #1-183 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



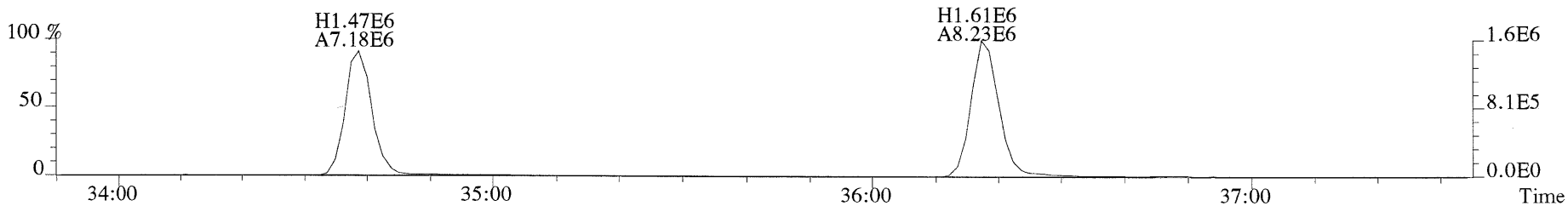
File:30JUL18Z #1-183 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



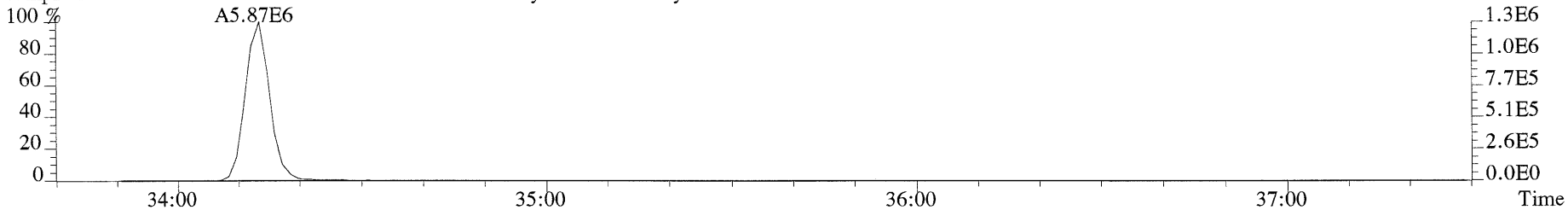
File:30JUL18Z #1-183 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



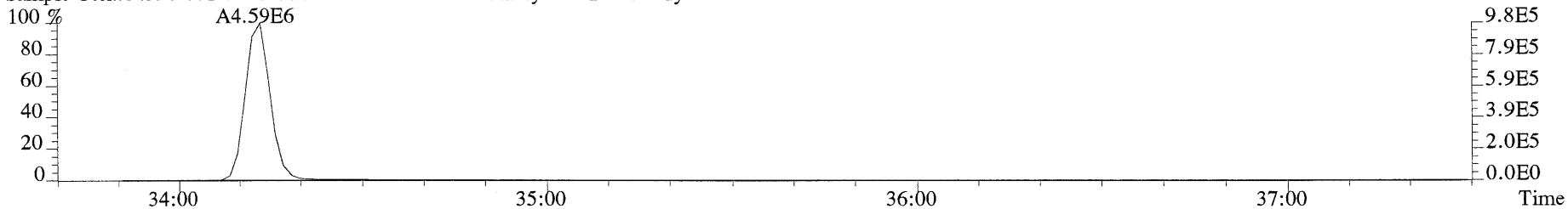
File:30JUL18Z #1-183 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



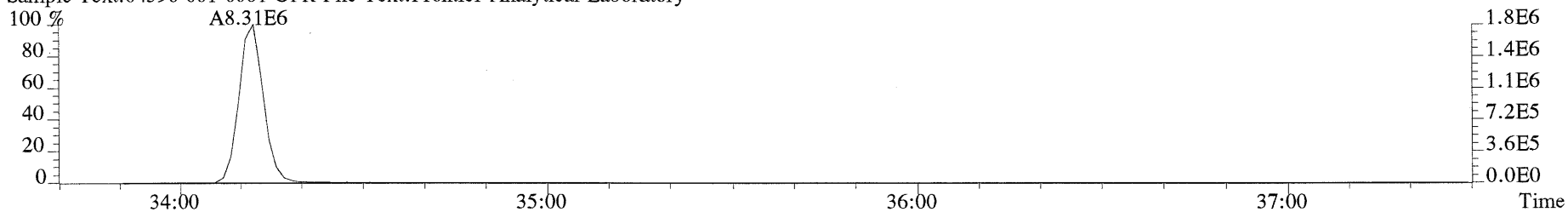
File:30JUL18Z #1-183 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



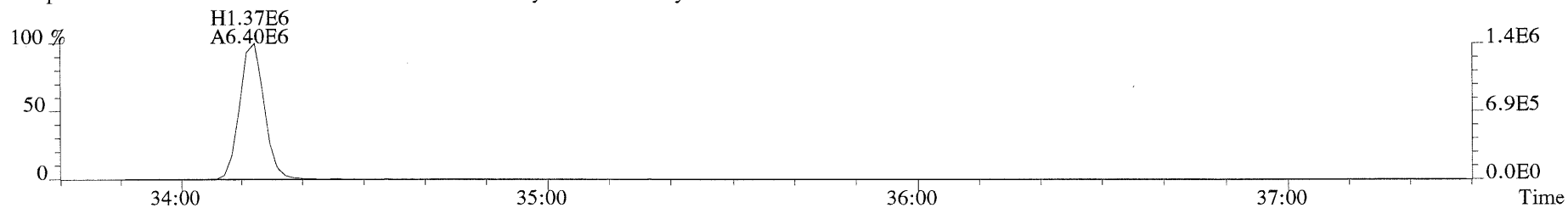
File:30JUL18Z #1-183 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



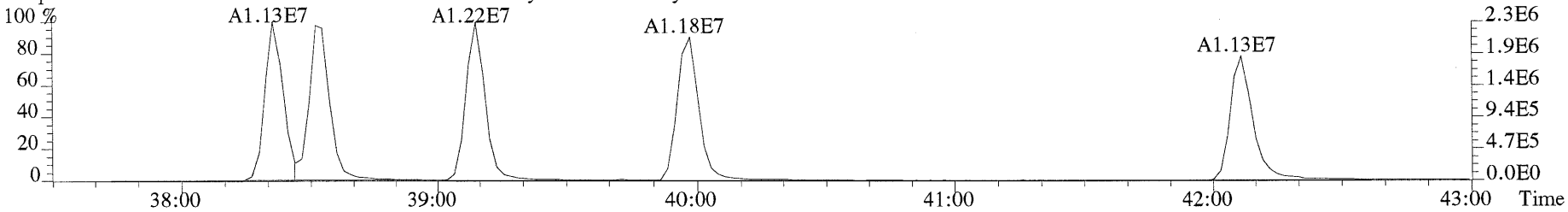
File:30JUL18Z #1-183 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



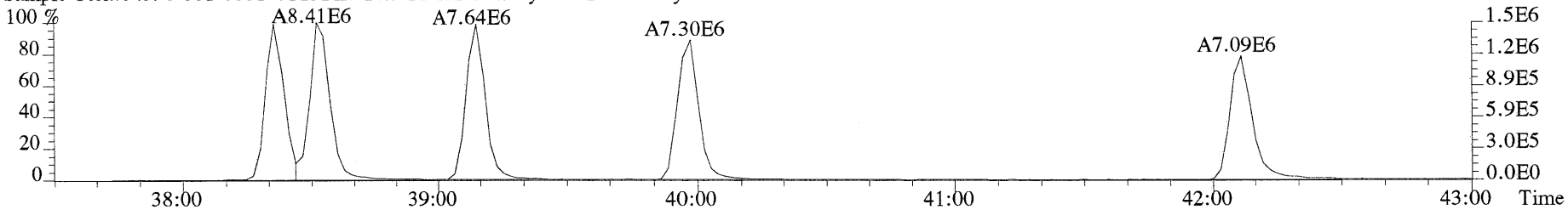
File:30JUL18Z #1-183 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



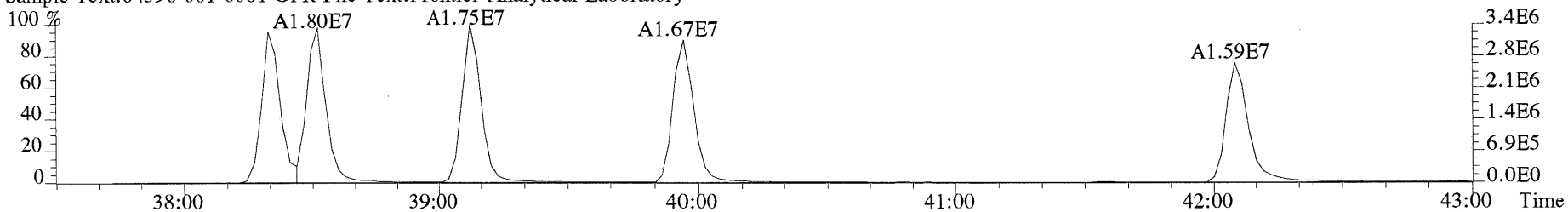
File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



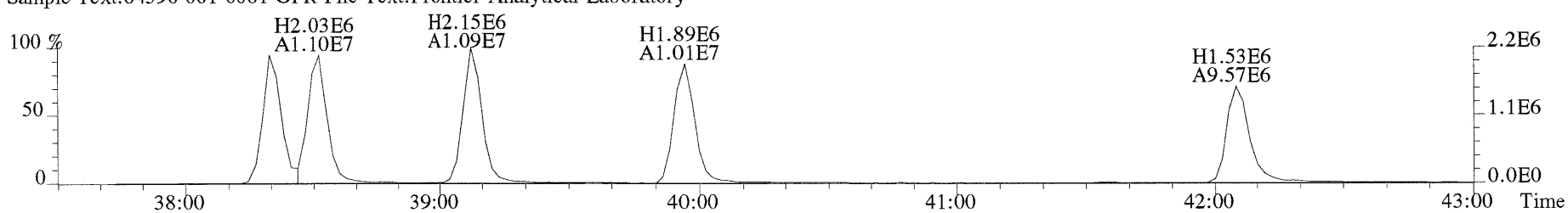
File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



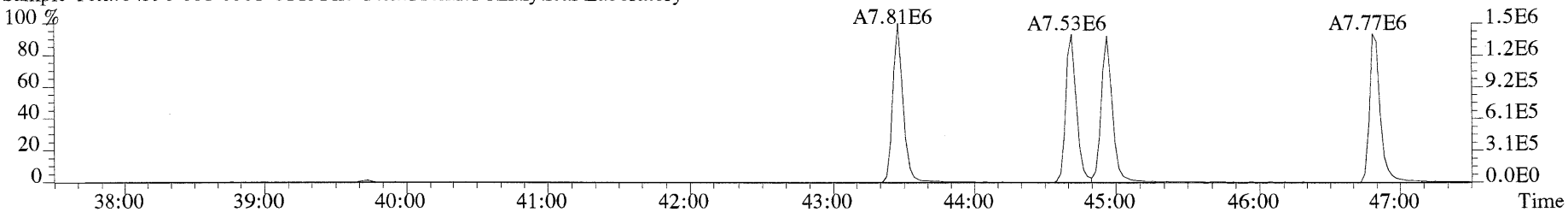
File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



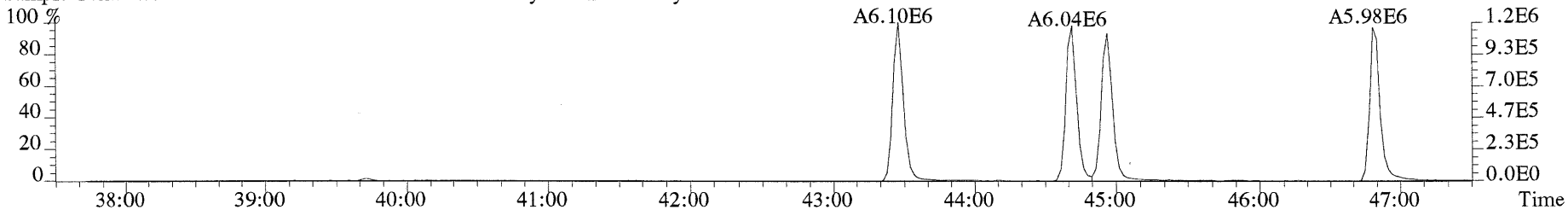
File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



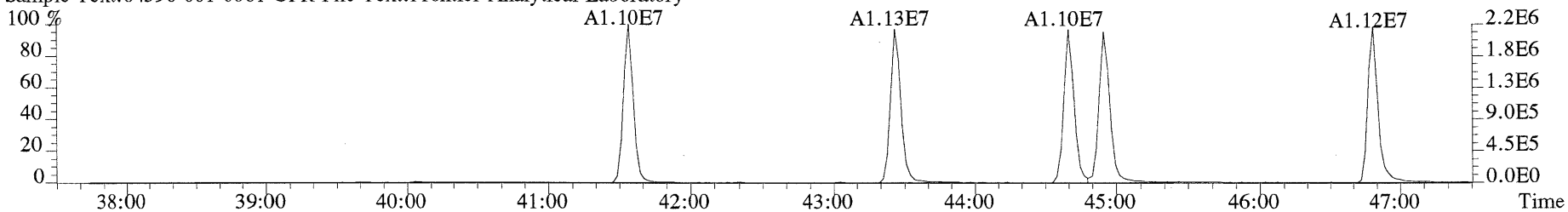
File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



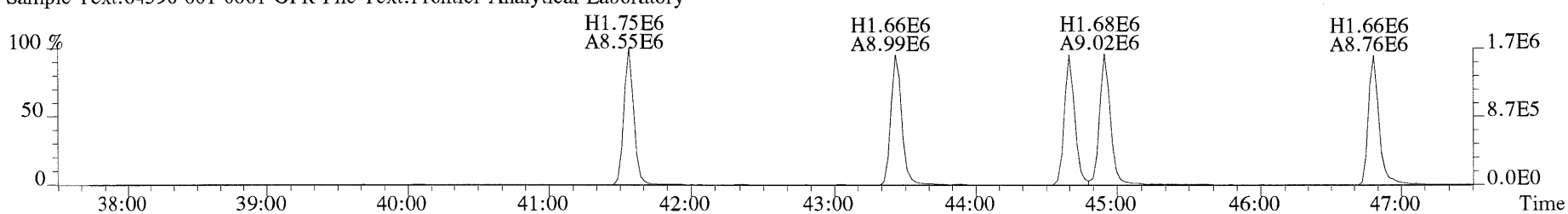
File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



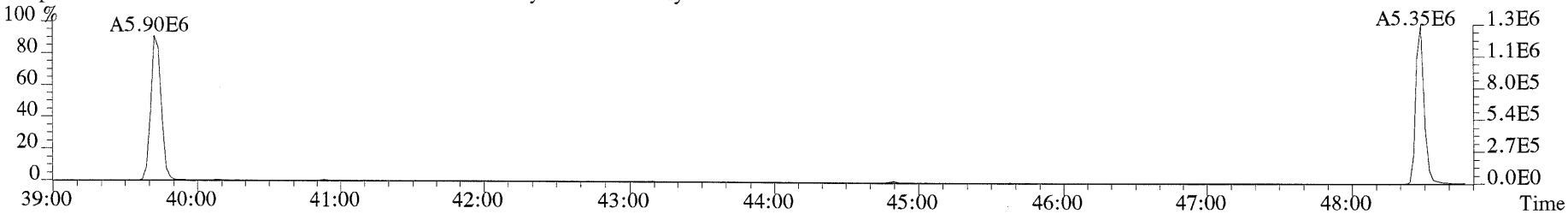
File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 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:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 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:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



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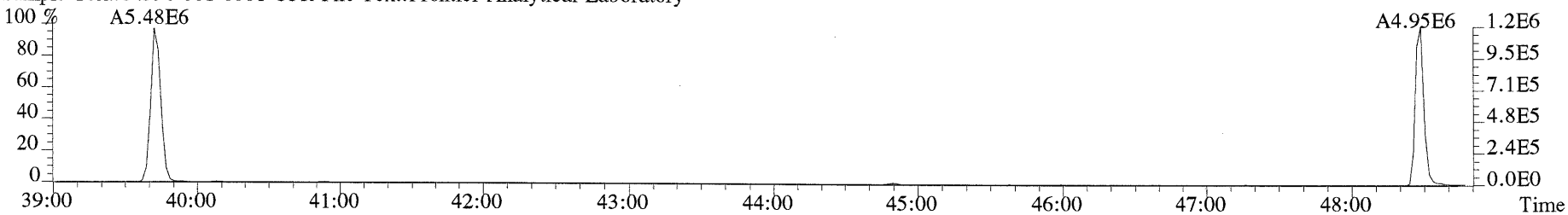
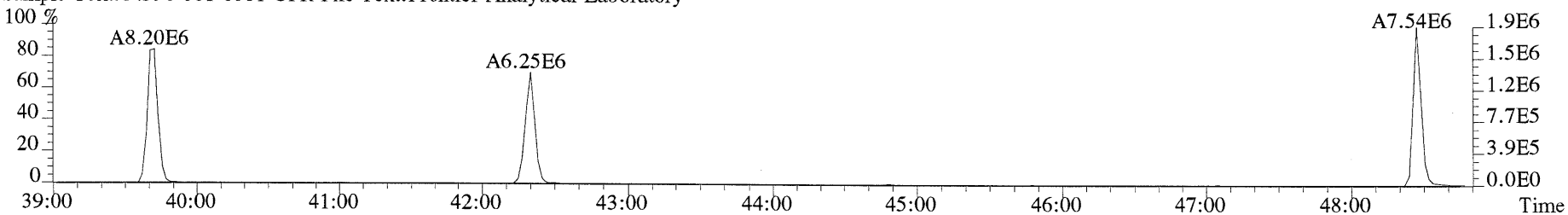
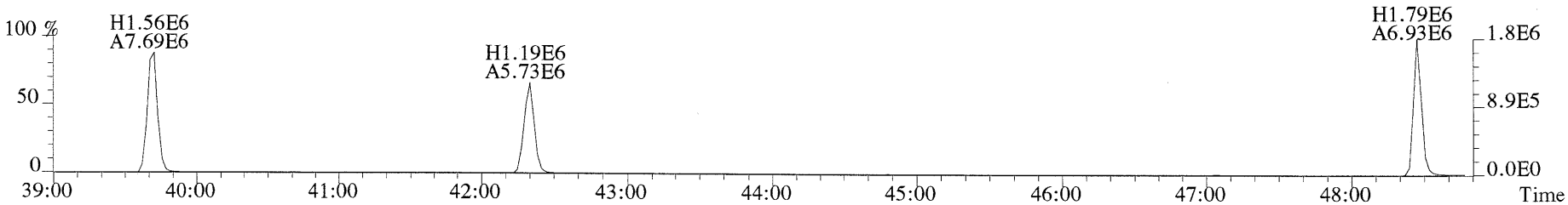
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



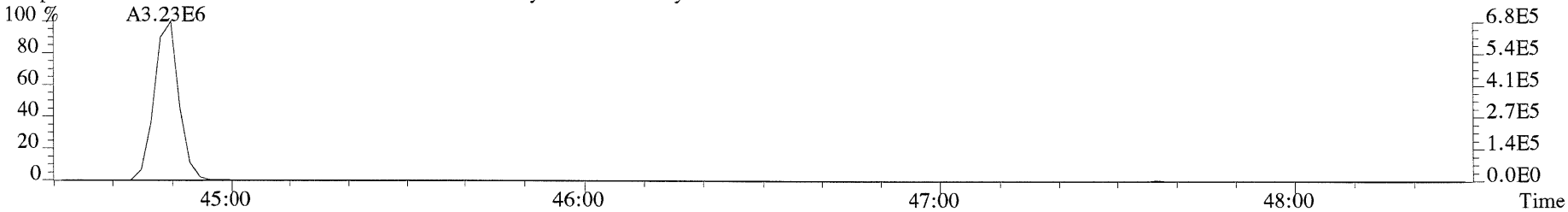
File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



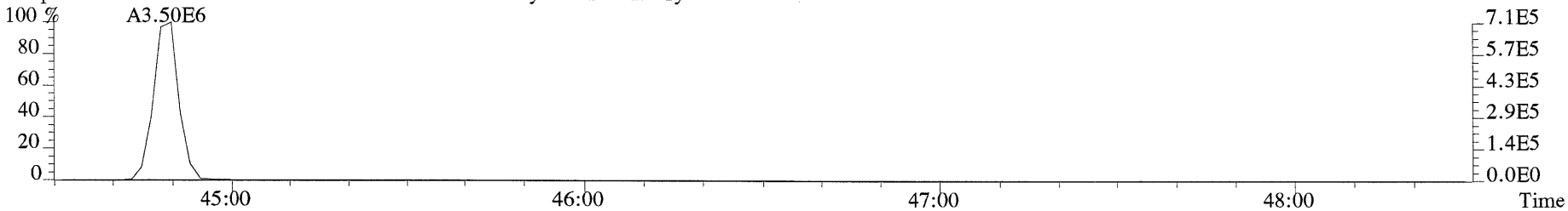
File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



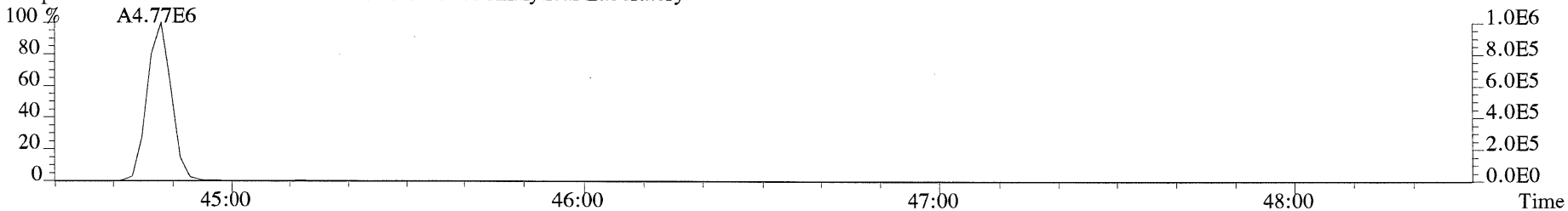
File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



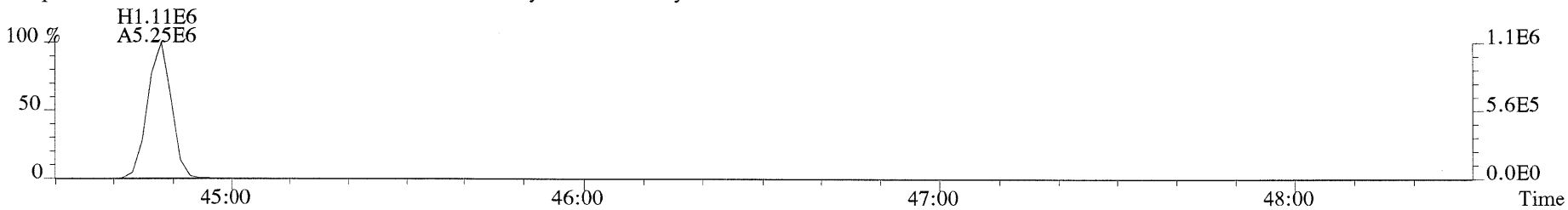
File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



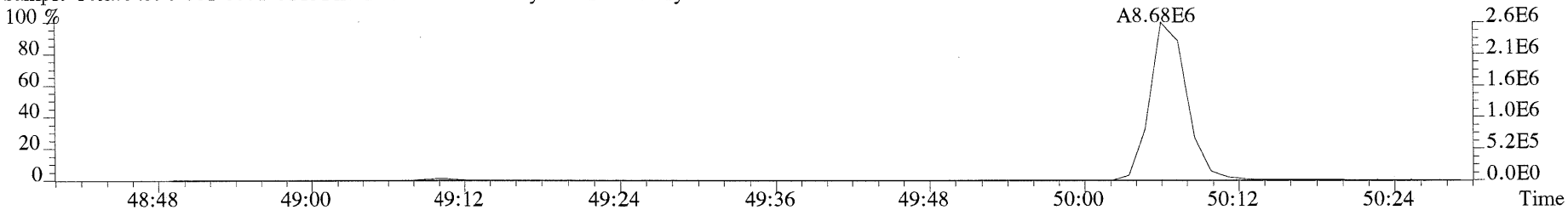
File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



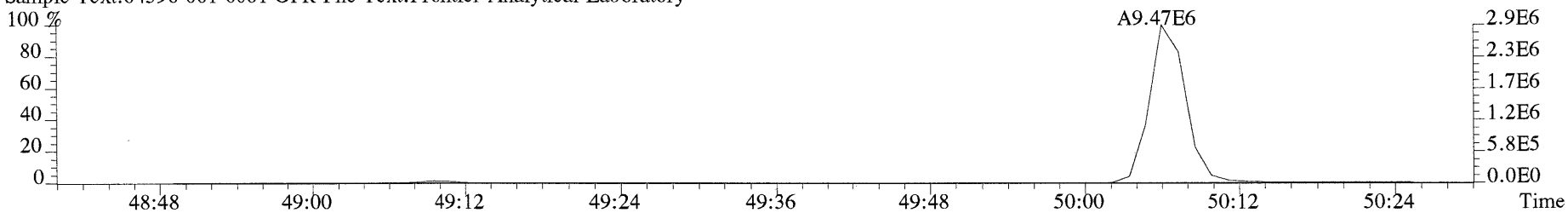
File:30JUL18Z #1-404 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



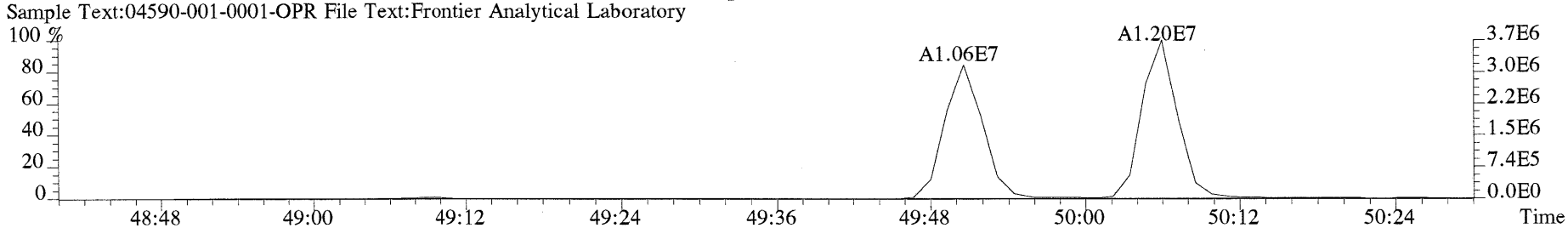
File:30JUL18Z #1-314 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



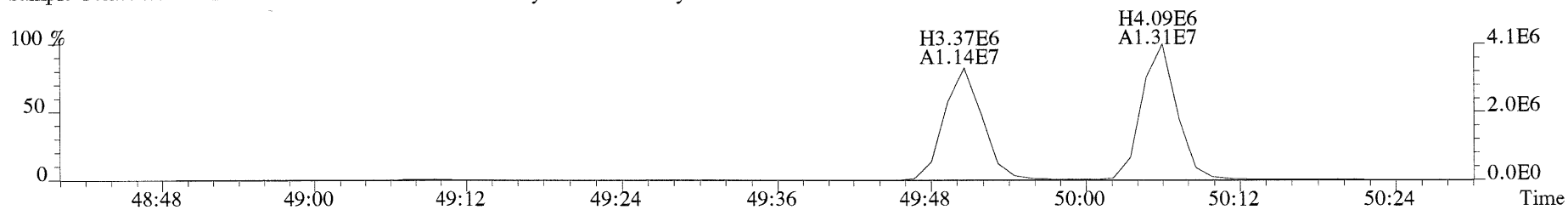
File:30JUL18Z #1-314 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



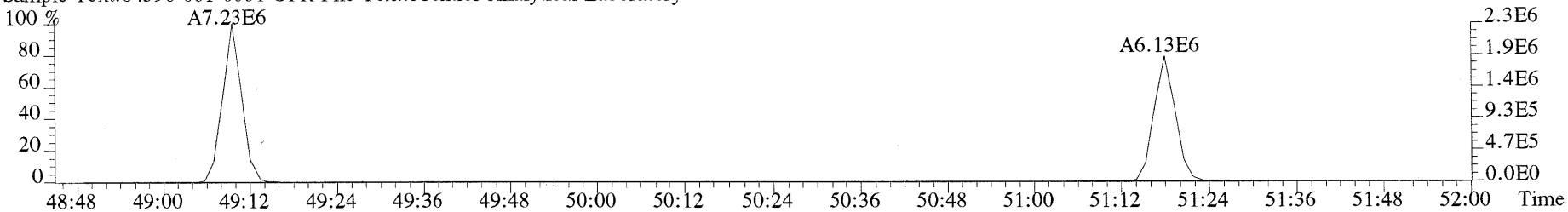
File:30JUL18Z #1-314 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



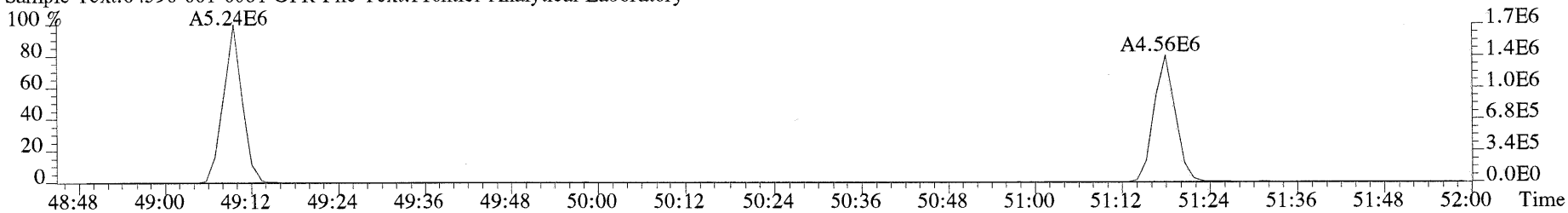
File:30JUL18Z #1-314 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



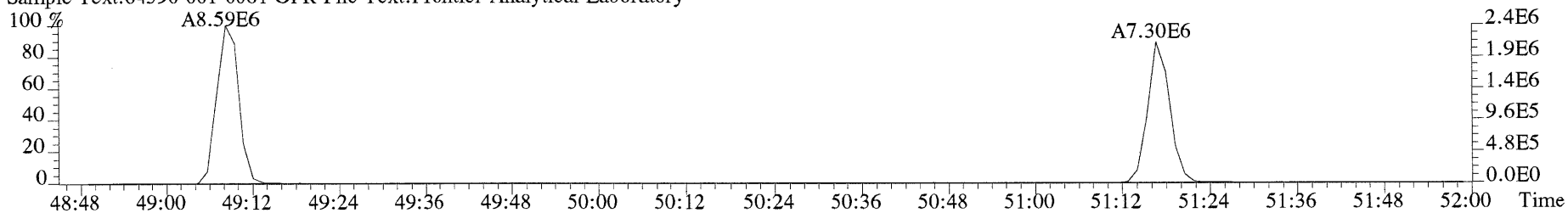
File:30JUL18Z #1-314 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



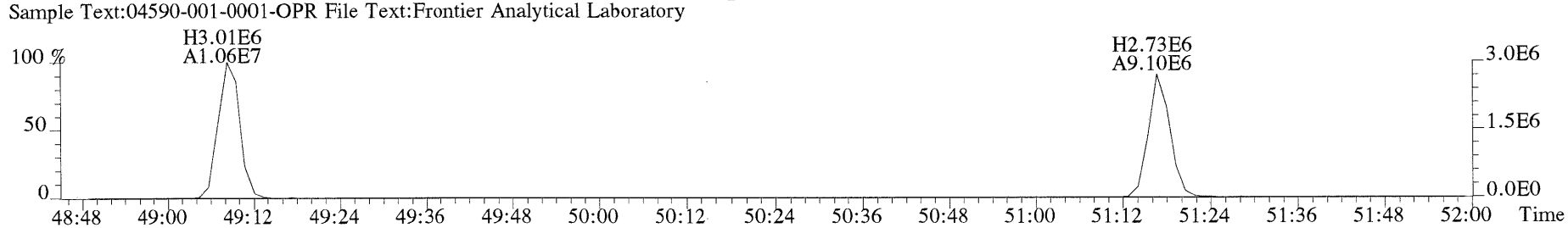
File:30JUL18Z #1-314 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



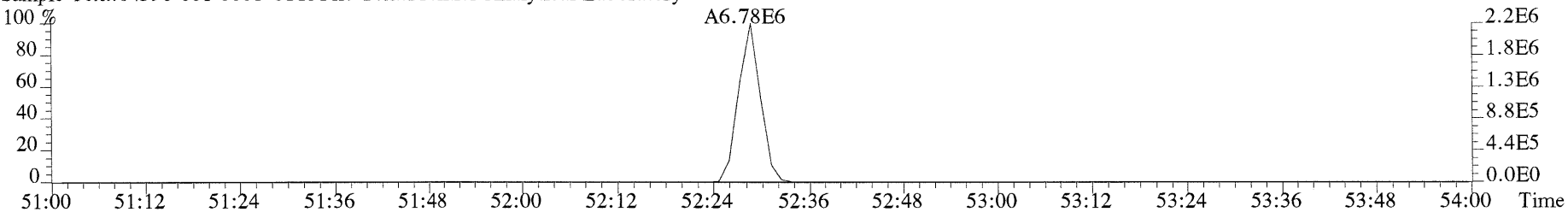
File:30JUL18Z #1-314 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



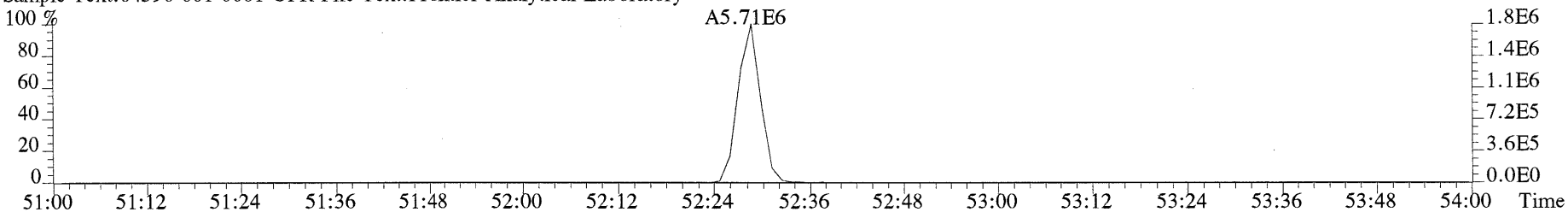
File:30JUL18Z #1-314 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



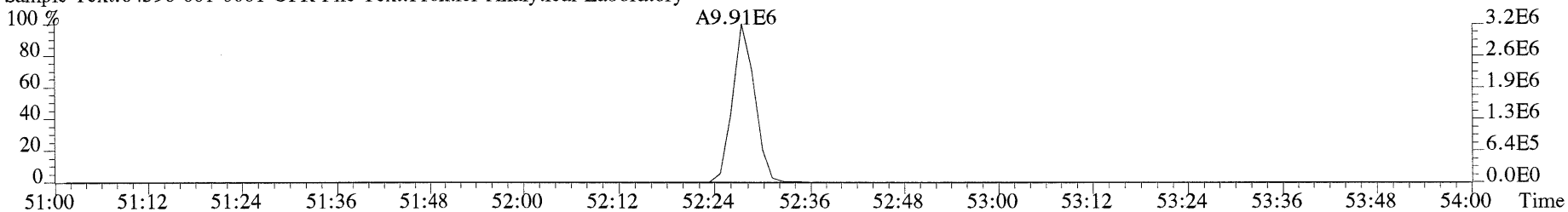
File:30JUL18Z #1-314 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



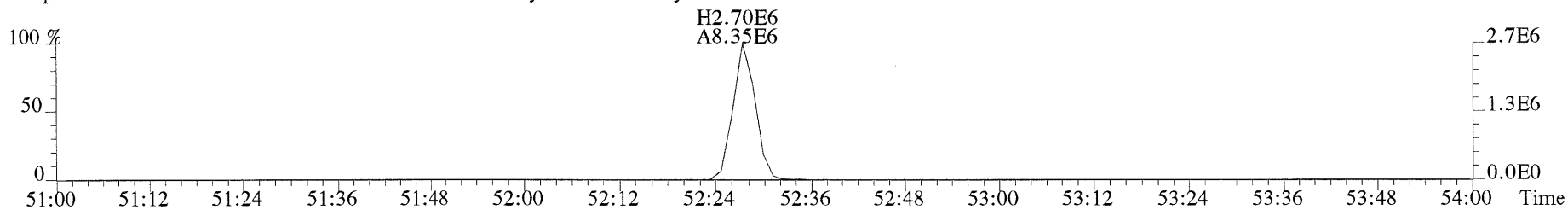
File:30JUL18Z #1-314 Acq:30-JUL-2018 12:16:25 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-314 Acq:30-JUL-2018 12:16:25 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:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-314 Acq:30-JUL-2018 12:16:25 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:04590-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 04591-001-0001-MB Filename: 31JUL18Z Sam:4 Acquired: 31-JUL-18 13:08:20 ICal: DAILY209FAL4-7-31-18
Client ID: Method Blank ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	*	n	NotFnd	1.28	*		1080	828	0.606			
13C-PCB-1	3.65e+07	3.33	y	14:29	0.83	1710					85.7	9.50e+06	2.83e+06
PCB-2	*	*	n	NotFnd	1.15	*		1080	828	0.744			
PCB-3	*	*	n	NotFnd	1.27	*		1080	828	0.743			
13C-PCB-3	3.53e+07	3.33	y	16:56	0.83	1640					82.1	7.89e+06	2.31e+06
PCB-4	*	*	n	NotFnd	1.44	*		1220	2250	1.29			
PCB-10	*	*	n	NotFnd	1.35	*		1220	2250	1.32			
13C-PCB-4	3.04e+07	1.65	y	18:10	0.68	1720					86.2	5.78e+06	3.54e+06
PCB-9	*	*	n	NotFnd	1.44	*		1220	2250	1.23			
PCB-7	*	*	n	NotFnd	1.55	*		1220	2250	1.14			
PCB-6	*	*	n	NotFnd	1.44	*		1220	2250	1.23			
PCB-8	*	*	n	NotFnd	1.45	*		1220	2250	1.23			
PCB-5	*	*	n	NotFnd	1.46	*		1220	2250	1.21			
PCB-14	*	*	n	NotFnd	1.36	*		1220	2250	1.31			
PCB-11	*	*	n	NotFnd	1.31	*		1220	2250	1.36			
PCB-13	*	*	n	NotFnd	1.38	*		1220	2250	1.29			
PCB-12	*	*	n	NotFnd	1.44	*		1220	2250	1.23			
PCB-15	*	*	n	NotFnd	1.38	*		1220	2250	1.25			
13C-PCB-15	4.62e+07	1.61	y	23:43	1.01	1770					88.3	6.21e+06	3.88e+06
PCB-19	*	*	n	NotFnd	1.31	*		430	288	0.702			
PCB-30	*	*	n	NotFnd	1.68	*		430	288	0.546			
PCB-18	*	*	n	NotFnd	1.25	*		430	288	0.734			
PCB-17	*	*	n	NotFnd	1.37	*		430	288	0.668			
PCB-27	*	*	n	NotFnd	1.68	*		430	288	0.545			
PCB-24	*	*	n	NotFnd	1.74	*		430	288	0.526			
PCB-16	*	*	n	NotFnd	1.49	*		430	288	0.617			
PCB-32	*	*	n	NotFnd	1.50	*		430	288	0.610			
13C-PCB-19	1.48e+07	1.13	y	22:03	0.35	1630					81.6	2.09e+06	1.82e+06
13C-PCB-9	5.16e+07	1.65	y	19:51	-	13.9							
PCB-34	*	*	n	NotFnd	1.40	*		620	400	0.756			
PCB-23	*	*	n	NotFnd	1.50	*		620	400	0.704			
PCB-29	*	*	n	NotFnd	1.31	*		620	400	0.803			
PCB-26	*	*	n	NotFnd	1.25	*		620	400	0.845			
PCB-25	*	*	n	NotFnd	1.60	*		620	400	0.659			
PCB-31	*	*	n	NotFnd	1.21	*		620	400	0.872			
PCB-28	*	*	n	NotFnd	1.69	*		620	400	0.625			
PCB-20	*	*	n	NotFnd	1.36	*		620	400	0.775		Co-elute PCB 21/33	
PCB-21	*	*	n	NotFnd	1.36	*		620	400	0.775		Co-elute PCB 20/33	
PCB-33	*	*	n	NotFnd	1.36	*		620	400	0.775		Co-elute PCB 20/21	
PCB-22	*	*	n	NotFnd	1.41	*		620	400	0.751			
PCB-36	*	*	n	NotFnd	1.20	*		620	400	0.882			
PCB-39	*	*	n	NotFnd	1.05	*		620	400	1.00			
PCB-38	*	*	n	NotFnd	1.39	*		620	400	0.760			
PCB-35	*	*	n	NotFnd	1.12	*		620	400	0.942			
PCB-37	*	*	n	NotFnd	1.40	*		620	400	0.756			
13C-PCB-37	2.85e+07	1.15	y	30:23	1.54	1980					99.0	2.52e+06	2.31e+06

PCB-54	*	*	n	NotFnd	1.13	*	272	352	0.482				
PCB-50	*	*	n	NotFnd	0.72	*	272	352	0.759				
PCB-53	*	*	n	NotFnd	0.76	*	272	352	0.713				
PCB-51	*	*	n	NotFnd	0.76	*	272	352	0.716				
PCB-45	*	*	n	NotFnd	0.63	*	272	352	0.859				
PCB-46	*	*	n	NotFnd	0.65	*	272	352	0.842				
PCB-52	*	*	n	NotFnd	0.92	*	272	352	0.593		Co-elute PCB 69		
PCB-69	*	*	n	NotFnd	0.92	*	272	352	0.593		Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	0.87	*	272	352	0.626				
PCB-43	*	*	n	NotFnd	0.72	*	272	352	0.756		Co-elute PCB 49		
PCB-49	*	*	n	NotFnd	0.72	*	272	352	0.756		Co-elute PCB 43		
PCB-47	*	*	n	NotFnd	0.84	*	272	352	0.651				
PCB-48	*	*	n	NotFnd	0.96	*	272	352	0.570		Co-elute PCB 75		
PCB-75	*	*	n	NotFnd	0.96	*	272	352	0.570		Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.01	*	272	352	0.539				
PCB-62	*	*	n	NotFnd	0.97	*	272	352	0.563				
PCB-44	*	*	n	NotFnd	0.66	*	272	352	0.820				
PCB-42	*	*	n	NotFnd	0.85	*	272	352	0.641		Co-elute PCB 59		
PCB-59	*	*	n	NotFnd	0.85	*	272	352	0.641		Co-elute PCB 42		
PCB-72	*	*	n	NotFnd	0.92	*	272	352	0.595		Co-elute PCB 41/71/64		
PCB-41	*	*	n	NotFnd	0.92	*	272	352	0.595		Co-elute PCB 72/71/64		
PCB-71	*	*	n	NotFnd	0.92	*	272	352	0.595		Co-elute PCB 72/41/64		
PCB-64	*	*	n	NotFnd	0.92	*	272	352	0.595		Co-elute PCB 72/41/71		
PCB-68	*	*	n	NotFnd	1.03	*	272	352	0.529				
PCB-40	*	*	n	NotFnd	0.59	*	272	352	0.923				
PCB-57	*	*	n	NotFnd	0.97	*	272	352	0.563				
PCB-67	*	*	n	NotFnd	0.98	*	272	352	0.554				
PCB-58	*	*	n	NotFnd	0.90	*	272	352	0.608				
PCB-63	*	*	n	NotFnd	1.02	*	272	352	0.535				
PCB-74	*	*	n	NotFnd	1.13	*	272	352	0.483				
PCB-61	*	*	n	NotFnd	1.07	*	272	352	0.508		Co-elute PCB 70		
PCB-70	*	*	n	NotFnd	1.07	*	272	352	0.508		Co-elute PCB 61		
PCB-76	*	*	n	NotFnd	1.00	*	272	352	0.547		Co-elute PCB 66		
PCB-66	*	*	n	NotFnd	1.00	*	272	352	0.547		Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.10	*	272	352	0.496				
PCB-55	*	*	n	NotFnd	1.07	*	272	352	0.510				
13C-PCB-54	2.28e+07	0.79	y	25:35	1.28	1900				94.9	2.52e+06	3.21e+06	
PCB-104	*	*	n	NotFnd	1.27	*	200	211	0.587				
PCB-96	*	*	n	NotFnd	1.13	*	200	211	0.657				
PCB-103	*	*	n	NotFnd	0.97	*	200	211	0.768				
PCB-100	*	*	n	NotFnd	0.98	*	200	211	0.761				
PCB-94	*	*	n	NotFnd	0.87	*	200	211	0.856				
PCB-98	*	*	n	NotFnd	1.02	*	200	211	0.734		Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.02	*	200	211	0.734		Co-elute PCB 98		
PCB-95	*	*	n	NotFnd	0.88	*	200	211	0.846				
PCB-93	*	*	n	NotFnd	0.81	*	200	211	0.919				
PCB-88	*	*	n	NotFnd	0.91	*	200	211	0.819		Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	0.91	*	200	211	0.819		Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.12	*	200	211	0.667				
13C-PCB-104	1.24e+07	1.64	y	30:01	0.76	1750				87.4	1.72e+06	1.04e+06	
13C-PCB-28	3.89e+07	1.12	y	26:41	1.88	2220				111	4.52e+06	4.08e+06	
13C-PCB-52	1.87e+07	0.80	y	28:56	-	13.9							

PCB-56	*	*	n	NotFnd	1.26	*	280	436	0.617				Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.26	*	280	436	0.617				Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.19	*	280	436	0.655				
PCB-78	*	*	n	NotFnd	1.13	*	280	436	0.690				
PCB-81	*	*	n	NotFnd	1.25	*	280	436	0.593				
13C-PCB-81	2.78e+07	0.81	y	36:09	1.79	1740				86.8	2.18e+06	2.65e+06	
PCB-77	*	*	n	NotFnd	1.17	*	280	436	0.697				
13C-PCB-77	2.79e+07	0.82	y	36:44	1.72	1810				90.4	1.96e+06	2.43e+06	
PCB-155	*	*	n	NotFnd	1.21	*	180	180	0.560				
PCB-150	*	*	n	NotFnd	1.07	*	180	180	0.634				
PCB-152	*	*	n	NotFnd	1.04	*	180	180	0.655				
PCB-145	*	*	n	NotFnd	1.09	*	180	180	0.626				
PCB-136	*	*	n	NotFnd	0.97	*	180	180	0.698				
PCB-148	*	*	n	NotFnd	0.86	*	180	180	0.791				
PCB-154	*	*	n	NotFnd	1.02	*	180	180	0.669				
13C-PCB-155	1.29e+07	1.32	y	34:11	0.83	1720				86.1	1.52e+06	1.13e+06	
13C-PCB-111	2.02e+07	1.61	y	36:17	1.23	1830				91.5	2.41e+06	1.46e+06	
13C-PCB-101	1.79e+07	1.66	y	34:38	-	13.7							
PCB-84	*	*	n	NotFnd	0.58	*	420	423	1.43				Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.58	*	420	423	1.43				Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.56	*	420	423	1.48				
PCB-90	*	*	n	NotFnd	0.66	*	420	423	1.25				Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.66	*	420	423	1.25				Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.69	*	420	423	1.20				
PCB-99	*	*	n	NotFnd	0.75	*	420	423	1.10				
PCB-119	*	*	n	NotFnd	0.79	*	420	423	1.05				
PCB-83	*	*	n	NotFnd	0.67	*	420	423	1.23				Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.67	*	420	423	1.23				Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.80	*	420	423	1.03				
PCB-97	*	*	n	NotFnd	0.72	*	420	423	1.14				
PCB-86	*	*	n	NotFnd	0.66	*	420	423	1.24				
PCB-125	*	*	n	NotFnd	0.73	*	420	423	1.13				Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.73	*	420	423	1.13				Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.73	*	420	423	1.13				Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	0.91	*	420	423	0.906				Co-elute PCB 115
PCB-115	*	*	n	NotFnd	0.91	*	420	423	0.906				Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.69	*	420	423	1.18				Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.69	*	420	423	1.18				Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.86	*	420	423	0.958				
PCB-110	*	*	n	NotFnd	0.85	*	420	423	0.966				
PCB-82	*	*	n	NotFnd	0.51	*	420	423	1.61				
PCB-124	*	*	n	NotFnd	1.24	*	460	324	0.618				
PCB-108	*	*	n	NotFnd	1.24	*	460	324	0.618				Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.24	*	460	324	0.618				Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.50	*	460	324	0.487				
13C-PCB-123	2.57e+07	1.60	y	38:19	1.55	1750				87.5	3.31e+06	2.06e+06	
PCB-118	*	*	n	NotFnd	1.11	*	460	324	0.720				Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.11	*	460	324	0.720				Co-elute PCB 118
13C-PCB-118	2.98e+07	1.63	y	38:31	1.75	1800				90.1	3.05e+06	1.84e+06	
PCB-114	*	*	n	NotFnd	1.30	*	460	324	0.542				
13C-PCB-114	3.01e+07	1.66	y	39:07	1.58	2010				101	3.48e+06	2.08e+06	
PCB-122	*	*	n	NotFnd	1.17	*	460	324	0.653				
PCB-105	*	*	n	NotFnd	1.24	*	460	324	0.655				
13C-PCB-105	2.88e+07	1.64	y	39:56	1.49	2050				103	3.01e+06	1.81e+06	

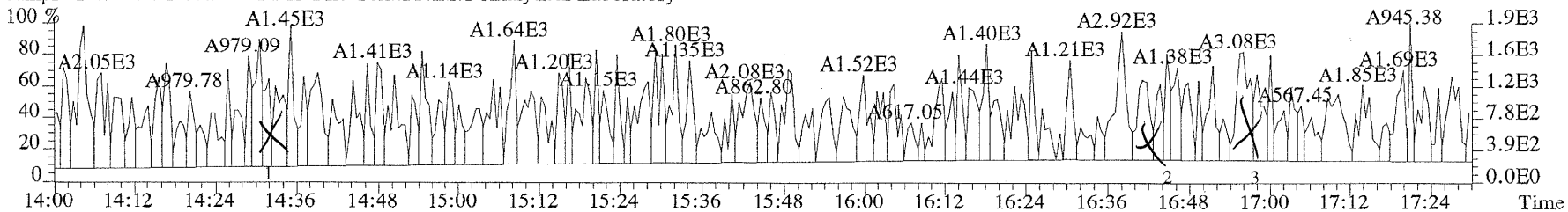
PCB-127	*	*	n	NotFnd	1.09	*	460	324	0.702				
PCB-126	*	*	n	NotFnd	1.28	*	460	324	0.767				
13C-PCB-126	2.62e+07	1.67	y	42:05	1.40	1970				98.7	2.45e+06	1.52e+06	
PCB-151	*	*	n	NotFnd	0.78	*	233	288	0.902				
PCB-135	*	*	n	NotFnd	0.91	*	233	288	0.772				
PCB-144	*	*	n	NotFnd	0.91	*	233	288	0.774				
PCB-147	*	*	n	NotFnd	0.99	*	233	288	0.714				
PCB-139	*	*	n	NotFnd	0.98	*	233	288	0.721		Co-elute PCB 149		
PCB-149	*	*	n	NotFnd	0.98	*	233	288	0.721		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.99	*	233	288	0.712				
PCB-143	*	*	n	NotFnd	0.91	*	233	288	0.769		Co-elute PCB 134		
PCB-134	*	*	n	NotFnd	0.91	*	233	288	0.769		Co-elute PCB 143		
PCB-131	*	*	n	NotFnd	0.91	*	233	288	0.769		Co-elute PCB 133		
PCB-133	*	*	n	NotFnd	0.91	*	233	288	0.769		Co-elute PCB 131		
PCB-142	*	*	n	NotFnd	0.83	*	233	288	0.842				
PCB-165	*	*	n	NotFnd	1.09	*	233	288	0.647		Co-elute PCB 146		
PCB-146	*	*	n	NotFnd	1.09	*	233	288	0.647		Co-elute PCB 165		
PCB-161	*	*	n	NotFnd	1.00	*	233	288	0.702		Co-elute PCB 132		
PCB-132	*	*	n	NotFnd	1.00	*	233	288	0.702		Co-elute PCB 161		
PCB-153	*	*	n	NotFnd	1.09	*	233	288	0.644				
PCB-168	*	*	n	NotFnd	1.19	*	233	288	0.593				
PCB-141	*	*	n	NotFnd	0.92	*	233	288	0.766				
PCB-137	*	*	n	NotFnd	0.82	*	233	288	0.860				
PCB-130	*	*	n	NotFnd	0.89	*	233	288	0.792				
PCB-138	*	*	n	NotFnd	1.20	*	233	288	0.587		Co-elute PCB 163/164		
PCB-163	*	*	n	NotFnd	1.20	*	233	288	0.587		Co-elute PCB 138/164		
PCB-164	*	*	n	NotFnd	1.20	*	233	288	0.587		Co-elute PCB 138/163		
PCB-158	*	*	n	NotFnd	1.21	*	233	288	0.579		Co-elute PCB 160		
PCB-160	*	*	n	NotFnd	1.21	*	233	288	0.579		Co-elute PCB 158		
PCB-129	*	*	n	NotFnd	0.78	*	233	288	0.897				
PCB-166	*	*	n	NotFnd	1.14	*	233	288	0.617				
PCB-159	*	*	n	NotFnd	1.20	*	233	288	0.587				
PCB-128	*	*	n	NotFnd	1.02	*	233	288	0.691		Co-elute PCB 162		
PCB-162	*	*	n	NotFnd	1.02	*	233	288	0.691		Co-elute PCB 128		
PCB-167	*	*	n	NotFnd	1.08	*	233	288	0.626				
13C-PCB-167	2.05e+07	1.29	y	43:26	1.16	1860				93.2	2.20e+06	1.65e+06	
PCB-156	*	*	n	NotFnd	1.13	*	233	288	0.661				
13C-PCB-156	1.96e+07	1.31	y	44:40	1.10	1880				94.0	1.99e+06	1.51e+06	
PCB-157	*	*	n	NotFnd	1.21	*	233	288	0.573				
13C-PCB-157	2.14e+07	1.29	y	44:54	1.13	2010				100	2.12e+06	1.65e+06	
PCB-169	*	*	n	NotFnd	1.13	*	233	288	0.621				
13C-PCB-169	1.99e+07	1.26	y	46:48	1.06	1980				99.0	2.09e+06	1.63e+06	

FAL ID: 04591-001-0001-MB Filename: 31JUL18Z Sam:4 Acquired: 31-JUL-18 13:08:20 ICal: DAILY209FAL4-7-31-18
Client ID: Method Blank ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.000

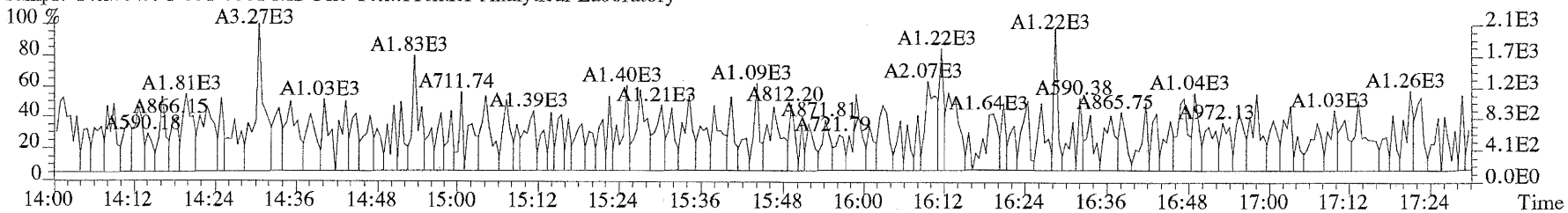
PCB-188	*	*	n	NotFnd	1.18	*	336	160	0.604				
13C-PCB-188	1.58e+07	1.10	y	39:40	0.83	2000				100	1.80e+06	1.68e+06	
PCB-184	*	*	n	NotFnd	1.27	*	336	160	0.580				
PCB-179	*	*	n	NotFnd	1.16	*	336	160	0.636				
PCB-176	*	*	n	NotFnd	1.13	*	336	160	0.651				
PCB-186	*	*	n	NotFnd	1.20	*	336	160	0.618				
PCB-178	*	*	n	NotFnd	0.82	*	336	160	0.906				
PCB-175	*	*	n	NotFnd	0.85	*	336	160	0.871				
PCB-187	*	*	n	NotFnd	0.97	*	336	160	0.760		Co-elute PCB 182		
PCB-182	*	*	n	NotFnd	0.97	*	336	160	0.760		Co-elute PCB 187		
PCB-183	*	*	n	NotFnd	0.92	*	336	160	0.802				
PCB-185	*	*	n	NotFnd	0.87	*	336	160	0.846				
PCB-174	*	*	n	NotFnd	0.88	*	336	160	0.836				
PCB-181	*	*	n	NotFnd	0.86	*	336	160	0.855				
PCB-177	*	*	n	NotFnd	0.78	*	336	160	0.949				
PCB-171	*	*	n	NotFnd	0.84	*	336	160	0.884				
PCB-173	*	*	n	NotFnd	0.75	*	336	160	0.990				
PCB-172	*	*	n	NotFnd	0.79	*	336	160	0.938				
PCB-192	*	*	n	NotFnd	1.11	*	336	160	0.666				
PCB-180	*	*	n	NotFnd	1.07	*	336	160	0.688				
PCB-193	*	*	n	NotFnd	1.12	*	336	160	0.658				
PCB-191	*	*	n	NotFnd	1.06	*	336	160	0.697				
PCB-170	*	*	n	NotFnd	0.78	*	336	160	0.944				
PCB-190	*	*	n	NotFnd	1.05	*	336	160	0.705				
PCB-189	*	*	n	NotFnd	1.20	*	336	160	0.642				
13C-PCB-189	1.36e+07	1.08	y	48:27	0.72	1980				98.8	1.67e+06	1.55e+06	
PCB-202	*	*	n	NotFnd	1.07	*	140	123	0.739				
PCB-201	*	*	n	NotFnd	0.97	*	140	123	0.809				
PCB-204	*	*	n	NotFnd	1.00	*	140	123	0.790				
PCB-197	*	*	n	NotFnd	1.07	*	140	123	0.736				
PCB-200	*	*	n	NotFnd	1.00	*	140	123	0.788				
PCB-198	*	*	n	NotFnd	0.77	*	140	123	1.02				
PCB-199	*	*	n	NotFnd	0.74	*	140	123	1.07				
PCB-203	*	*	n	NotFnd	0.85	*	140	123	0.930		Co-elute PCB 196		
PCB-196	*	*	n	NotFnd	0.85	*	140	123	0.930		Co-elute PCB 203		
13C-PCB-202	8.31e+06	0.93	y	44:46	0.48	1830				91.5	8.02e+05	8.67e+05	
13C-PCB-178	1.13e+07	1.10	y	42:18	0.61	1950				97.4	1.16e+06	1.07e+06	
13C-PCB-138	1.89e+07	1.31	y	41:34	-	13.6							
PCB-195	*	*	n	NotFnd	0.90	*	292	612	0.702				
PCB-194	*	*	n	NotFnd	0.92	*	292	612	0.688				
PCB-205	*	*	n	NotFnd	1.19	*	292	612	0.532				
13C-PCB-205	2.60e+07	0.92	y	50:06	1.25	1920				95.9	3.50e+06	3.66e+06	
PCB-208	*	*	n	NotFnd	0.99	*	160	172	0.246				
13C-PCB-208	2.18e+07	0.80	y	49:08	1.27	1590				79.4	3.02e+06	3.78e+06	
PCB-207	*	*	n	NotFnd	1.01	*	160	172	0.284				
PCB-206	*	*	n	NotFnd	0.96	*	160	172	0.354				
13C-PCB-206	1.64e+07	0.80	y	51:16	0.93	1620				81.0	2.18e+06	2.67e+06	
PCB-209	*	*	n	NotFnd	1.13	*	160	156	0.267				
13C-PCB-209	1.81e+07	1.20	y	52:27	1.04	1610				80.5	2.88e+06	2.38e+06	
13C-PCB-194	2.17e+07	0.94	y	49:49	-	16.1							

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

File:31JUL18Z #1-784 Acq:31-JUL-2018 13:08:20 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:04591-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-784 Acq:31-JUL-2018 13:08:20 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:04591-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-784 Acq:31-JUL-2018 13:08:20 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
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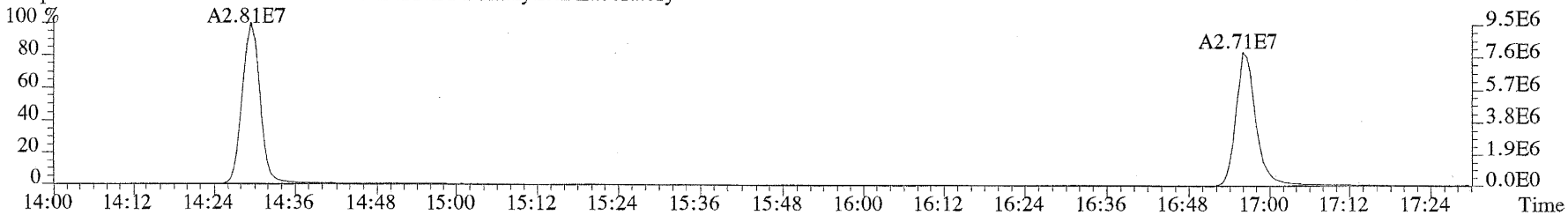
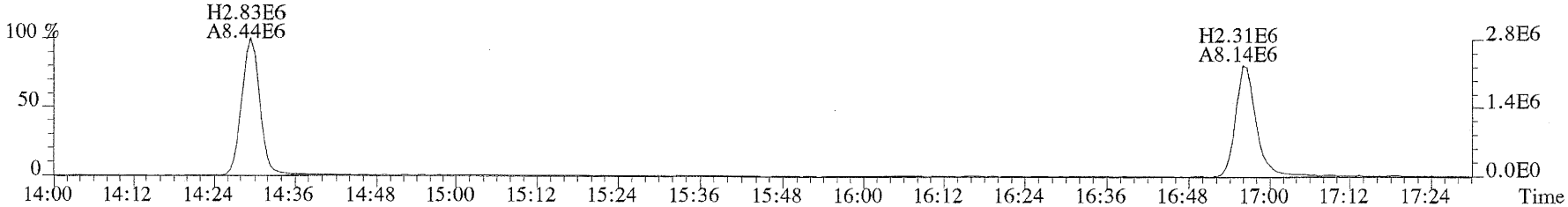
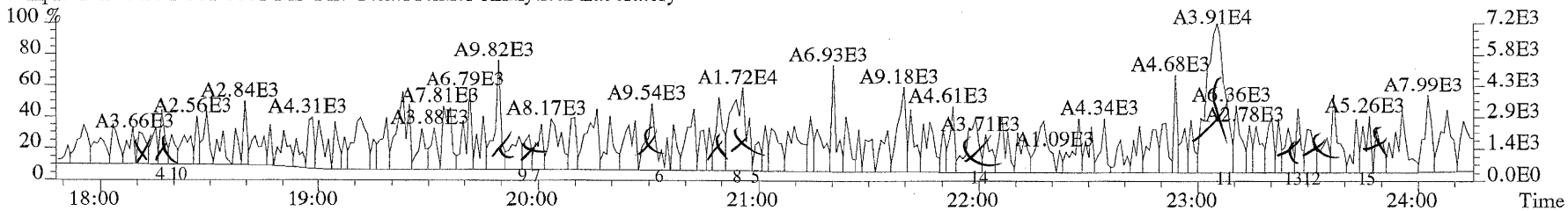


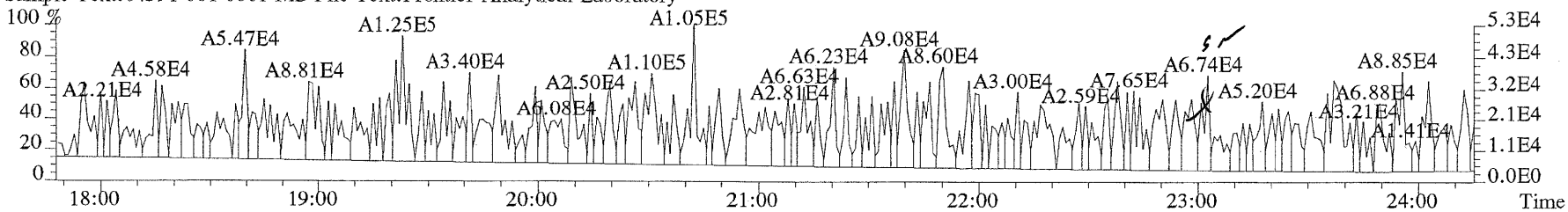
File:31JUL18Z #1-784 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



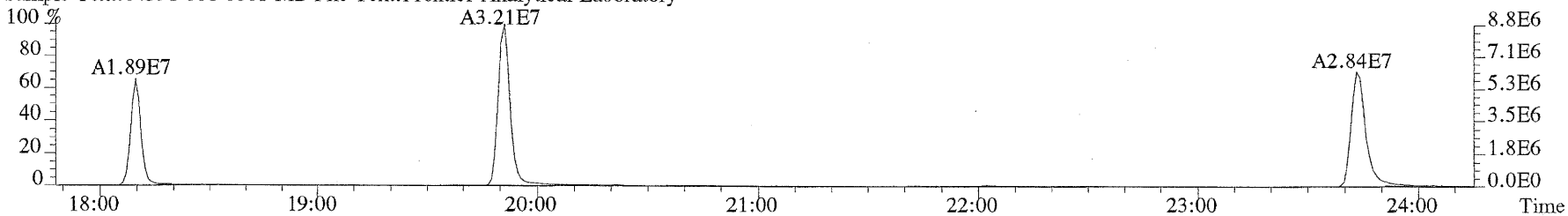
File:31JUL18Z #1-520 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



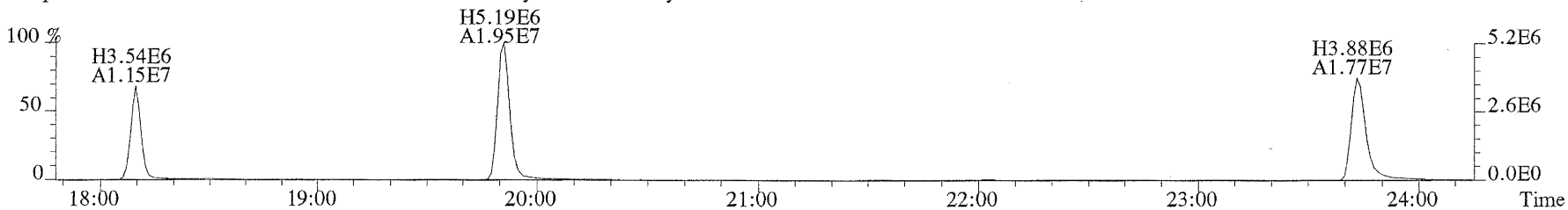
File:31JUL18Z #1-520 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



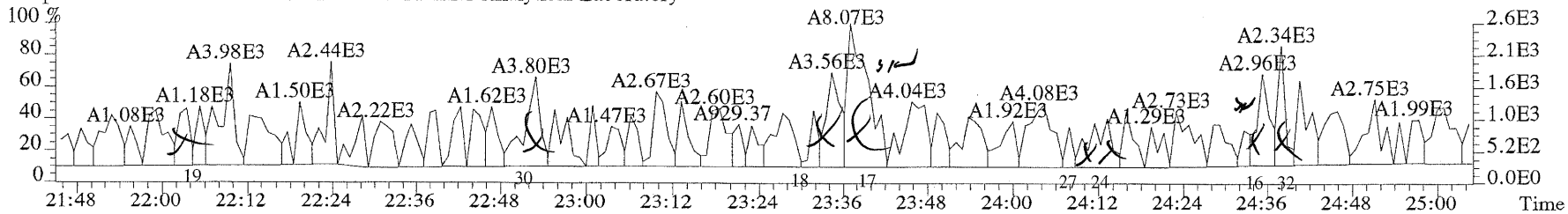
File:31JUL18Z #1-520 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



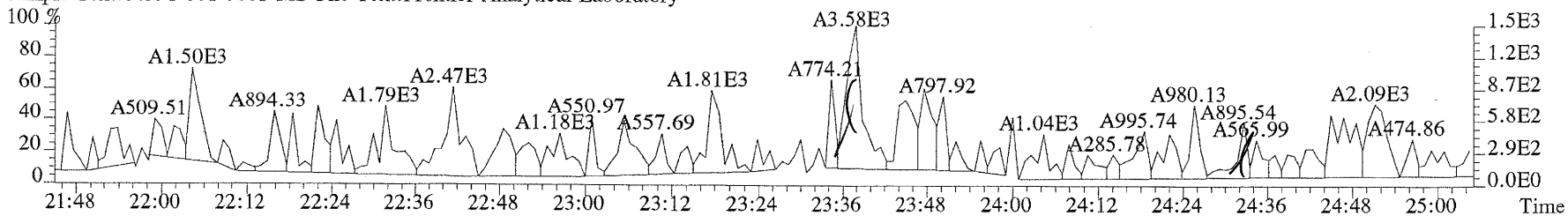
File:31JUL18Z #1-520 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



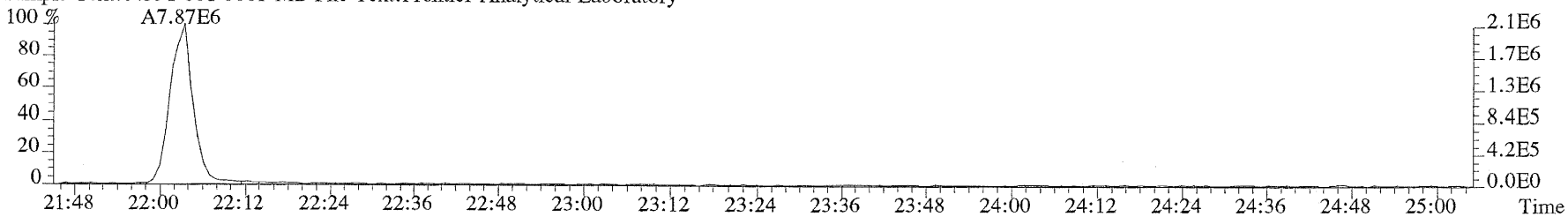
File:31JUL18Z #1-520 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



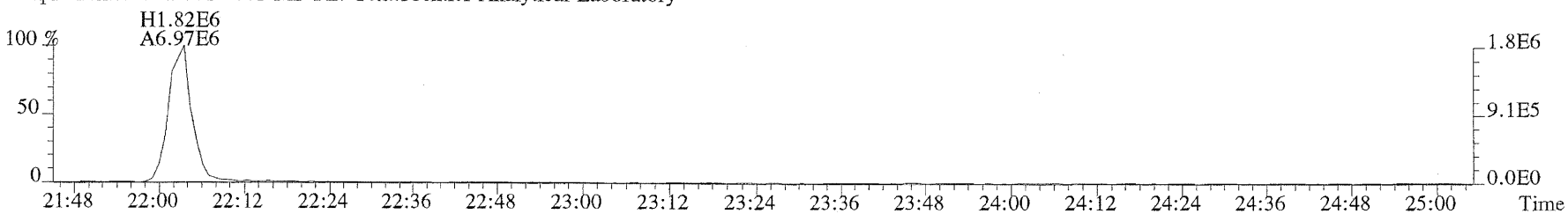
File:31JUL18Z #1-520 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



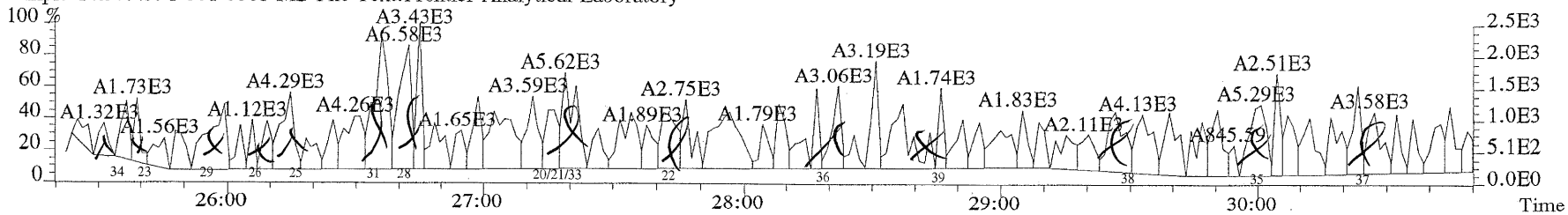
File:31JUL18Z #1-520 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



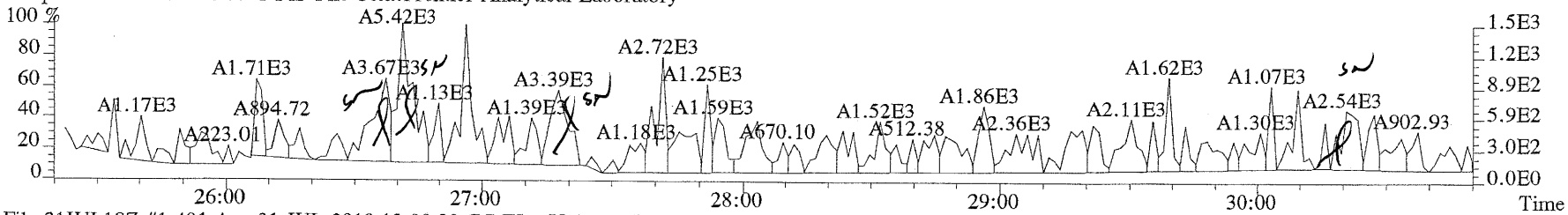
File:31JUL18Z #1-520 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



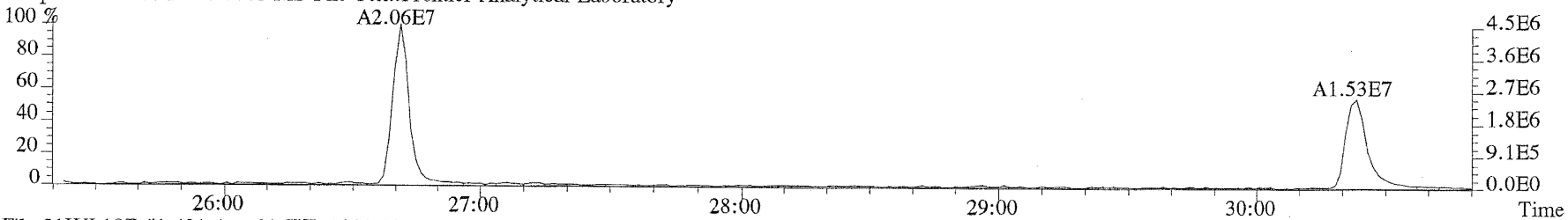
File:31JUL18Z #1-401 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



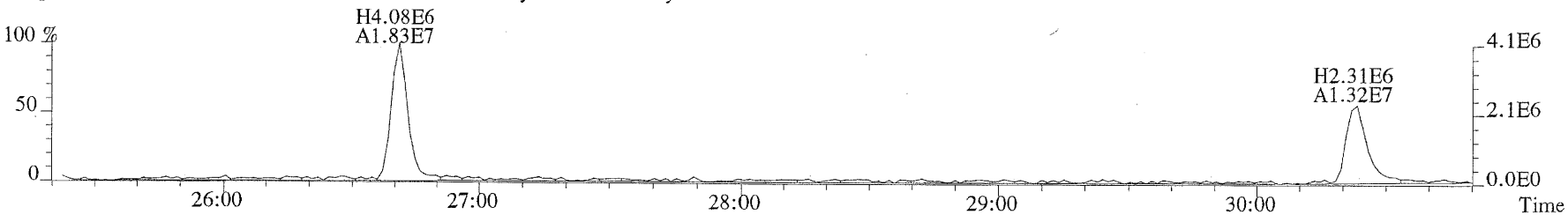
File:31JUL18Z #1-401 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



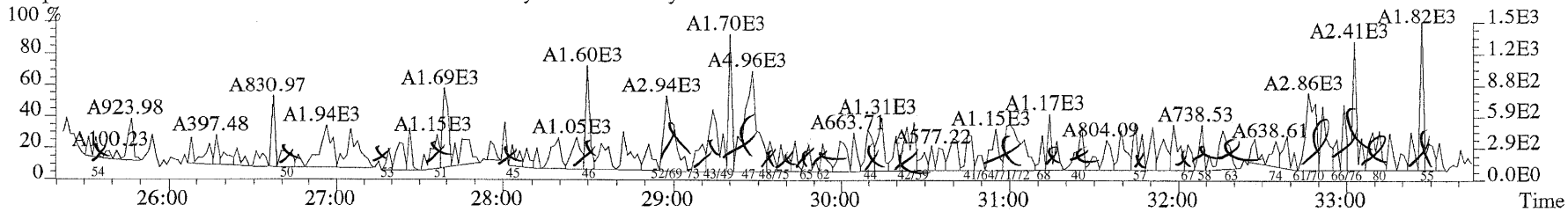
File:31JUL18Z #1-401 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



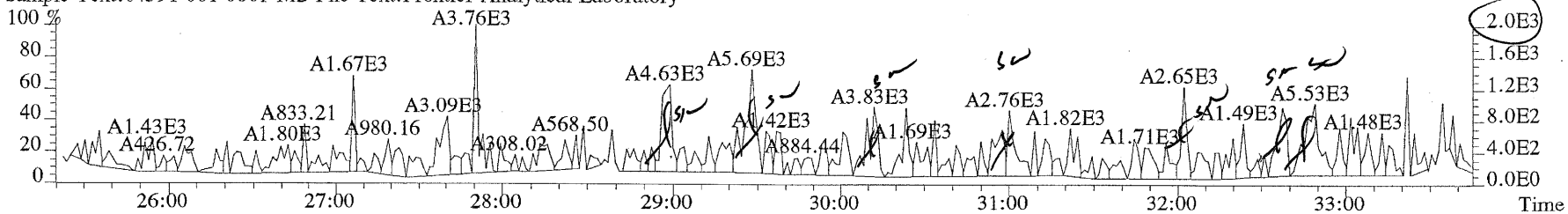
File:31JUL18Z #1-401 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



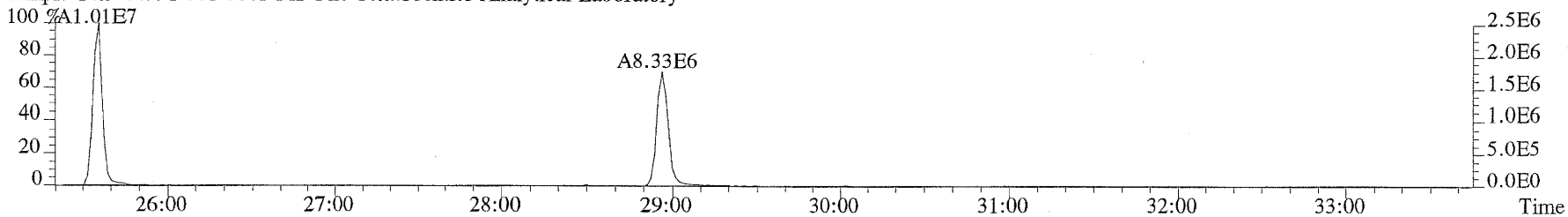
File:31JUL18Z #1-401 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



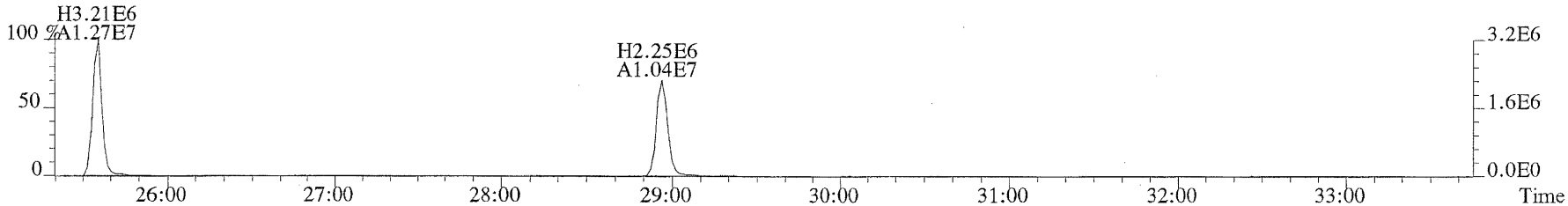
File:31JUL18Z #1-401 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



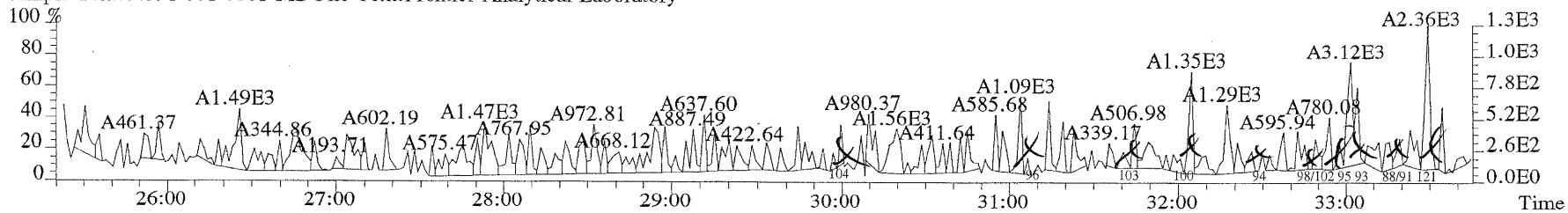
File:31JUL18Z #1-401 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



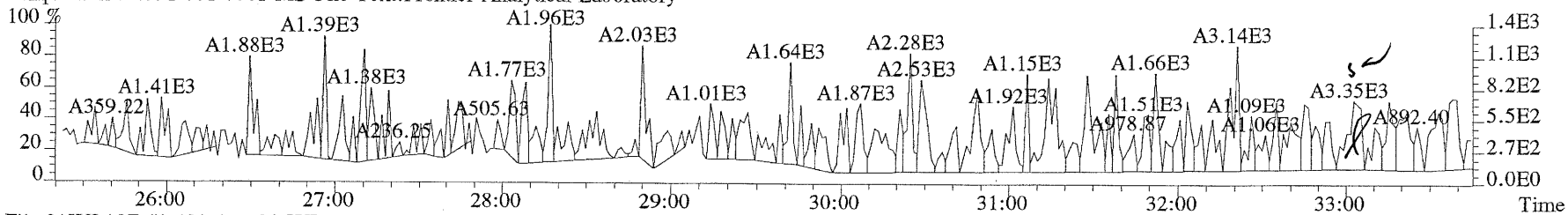
File:31JUL18Z #1-401 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



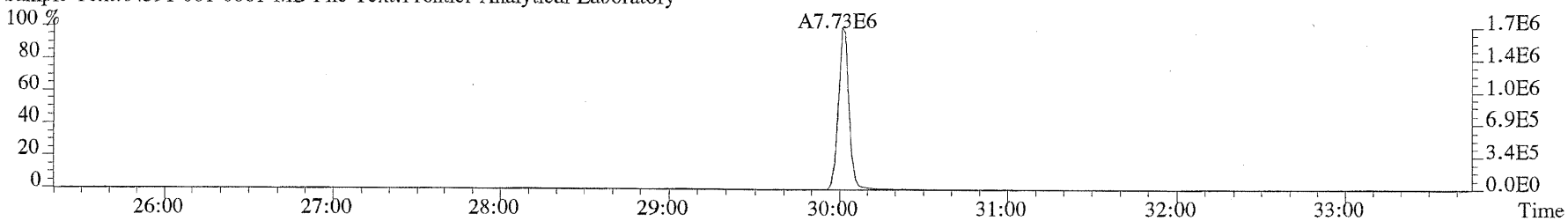
File:31JUL18Z #1-401 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



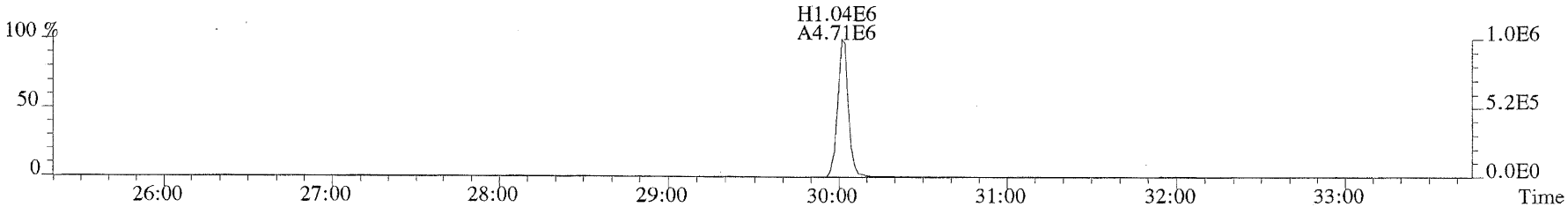
File:31JUL18Z #1-401 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



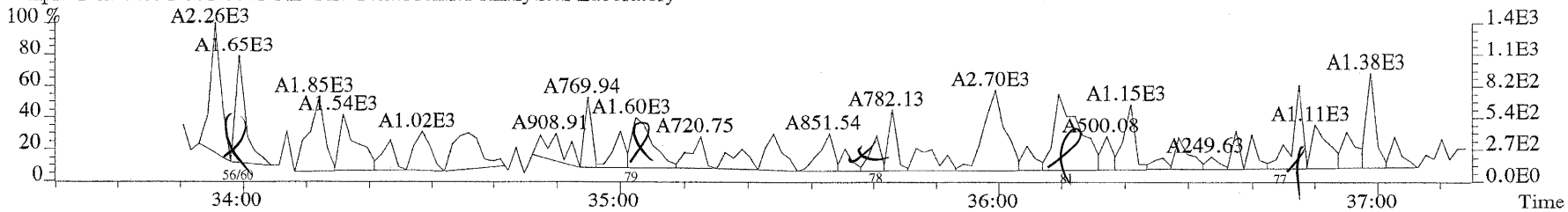
File:31JUL18Z #1-401 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



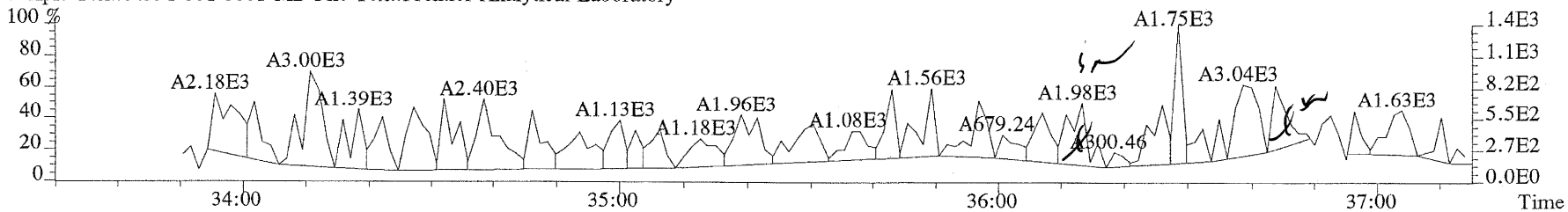
File:31JUL18Z #1-401 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



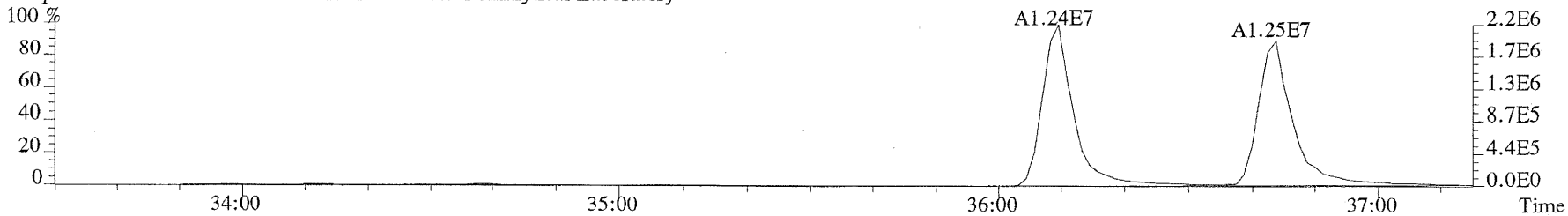
File:31JUL18Z #1-183 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



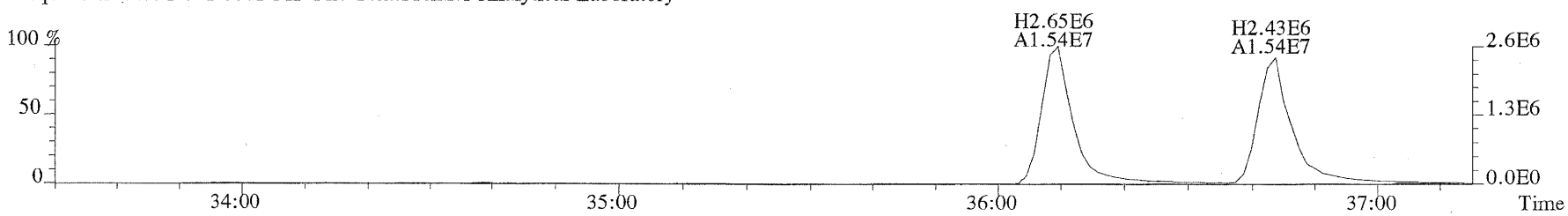
File:31JUL18Z #1-183 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



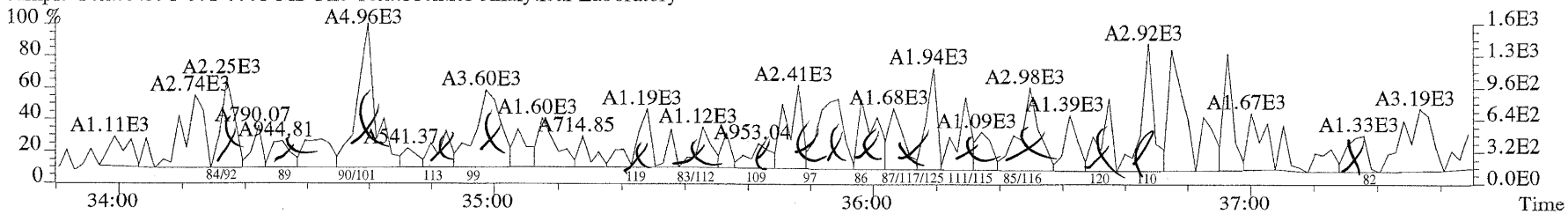
File:31JUL18Z #1-183 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



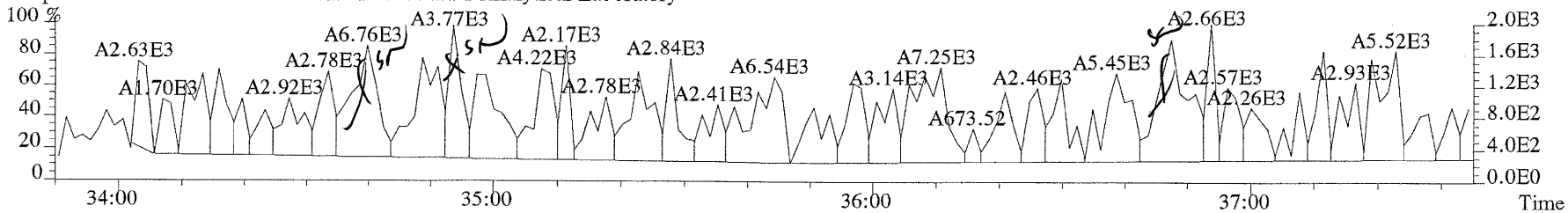
File:31JUL18Z #1-183 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



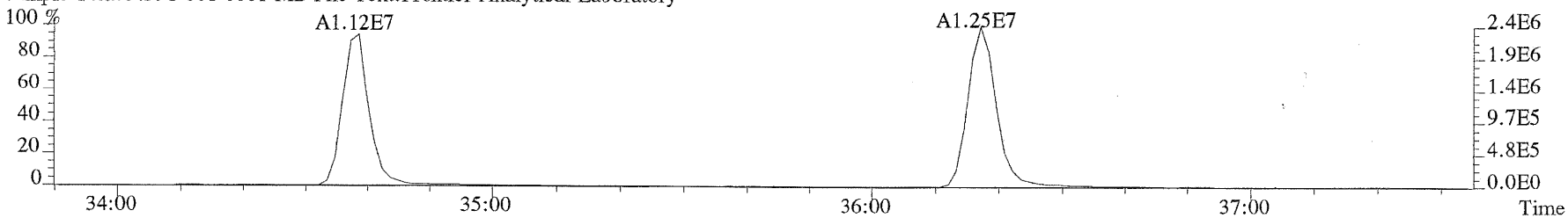
File:31JUL18Z #1-183 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



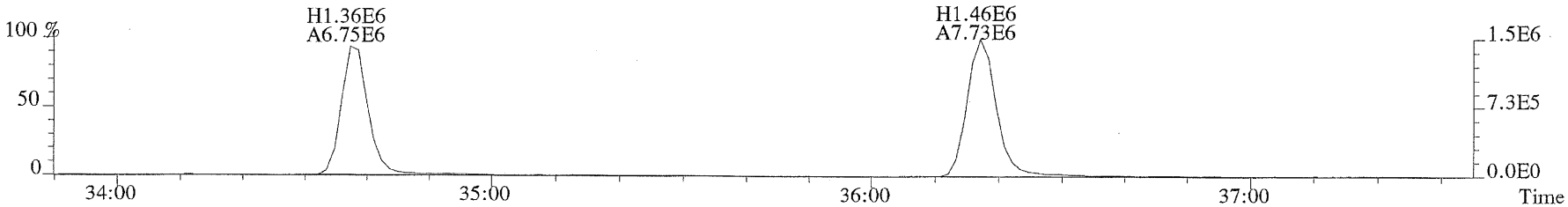
File:31JUL18Z #1-183 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



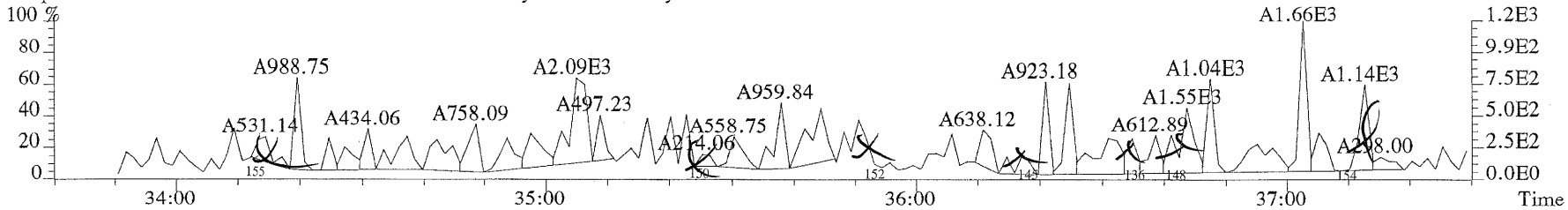
File:31JUL18Z #1-183 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



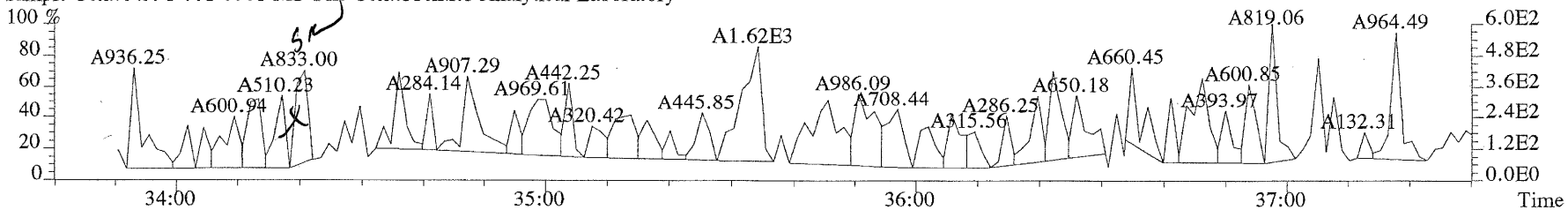
File:31JUL18Z #1-183 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



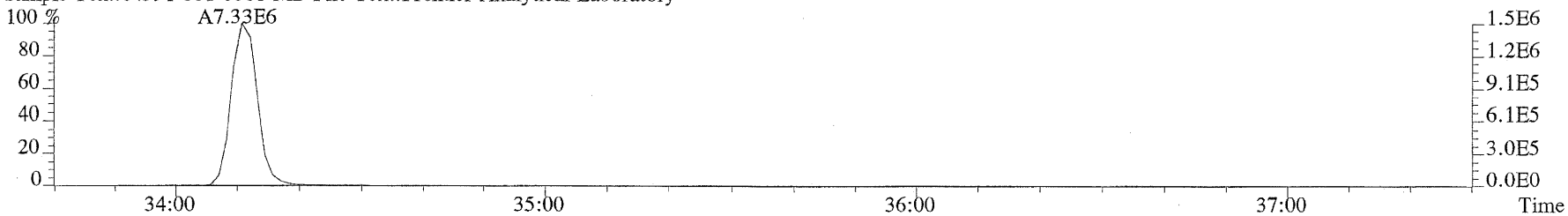
File:31JUL18Z #1-183 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



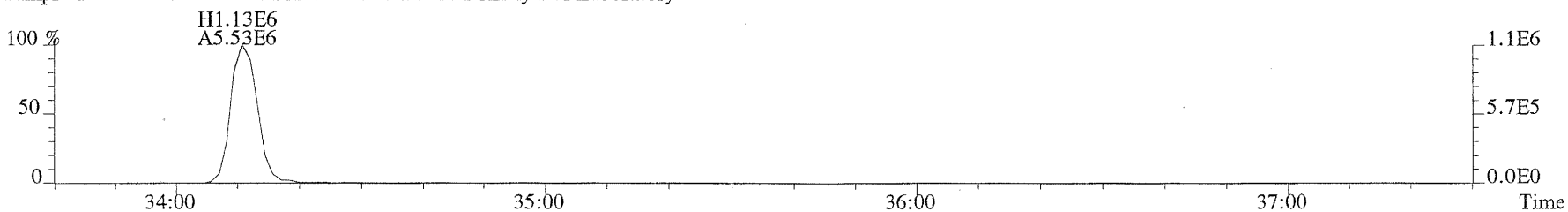
File:31JUL18Z #1-183 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



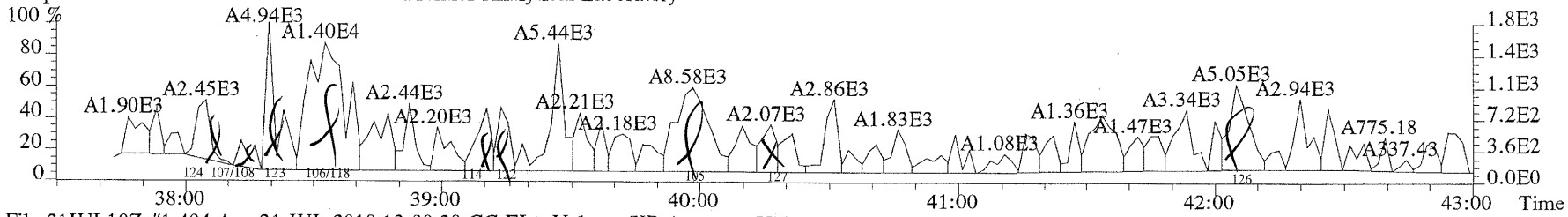
File:31JUL18Z #1-183 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



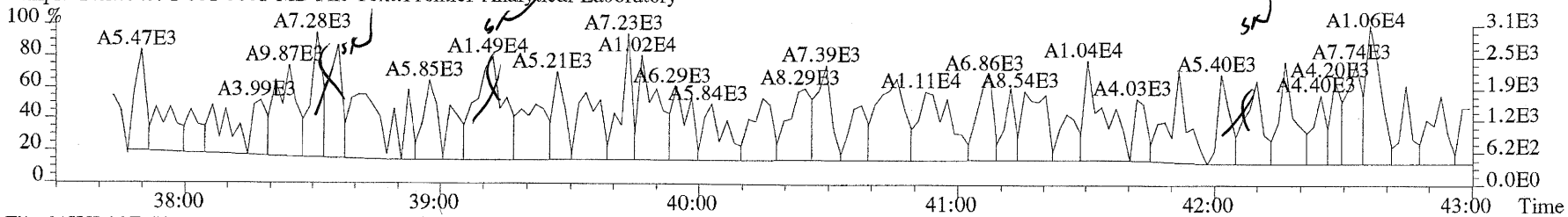
File:31JUL18Z #1-183 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



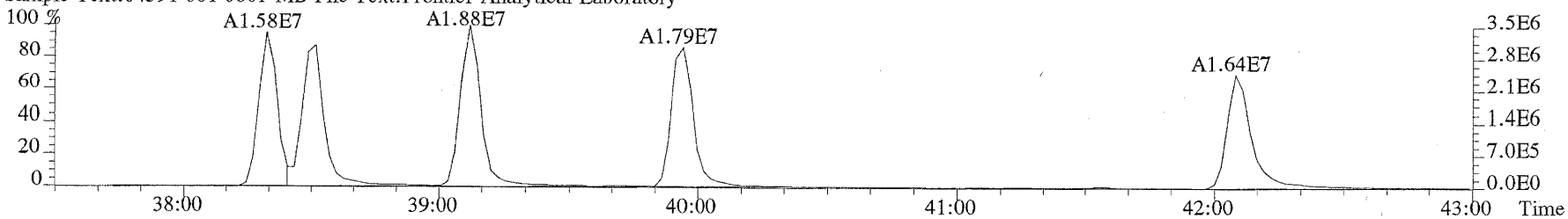
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



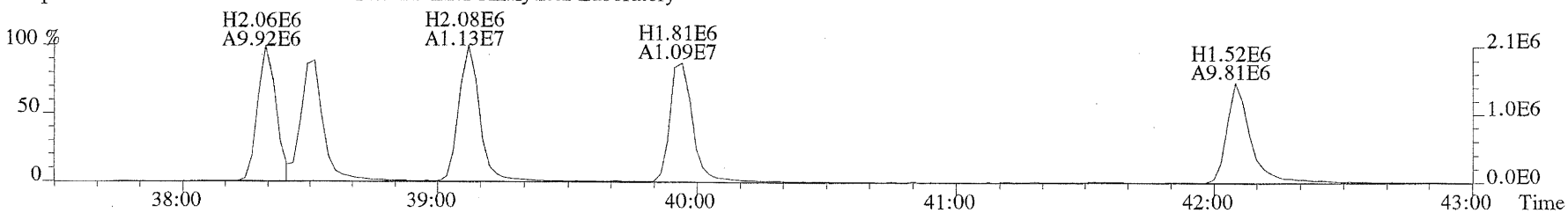
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



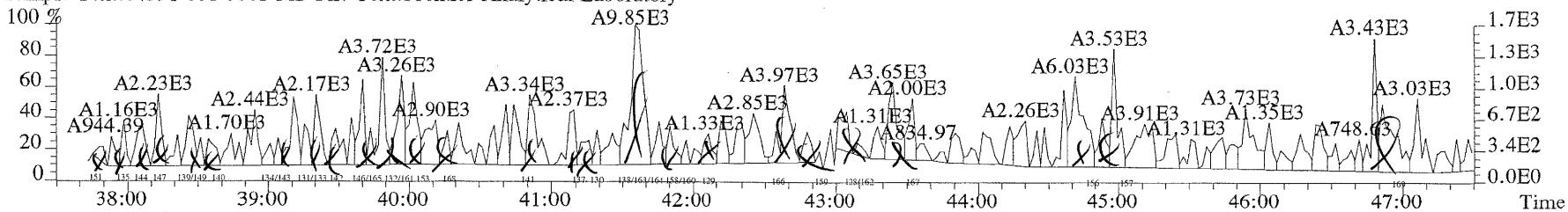
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



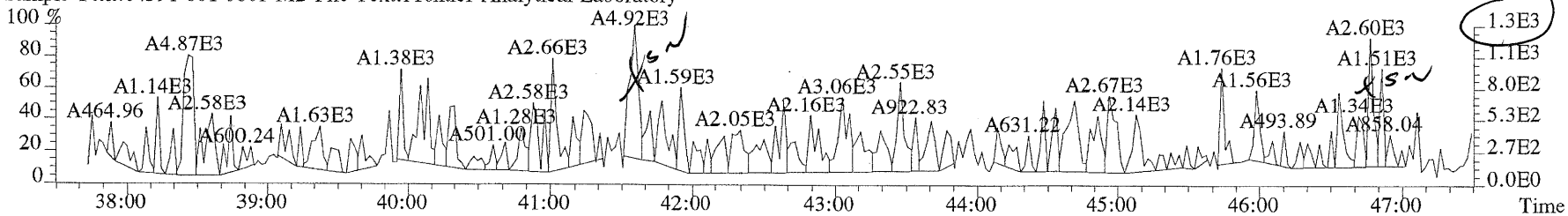
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



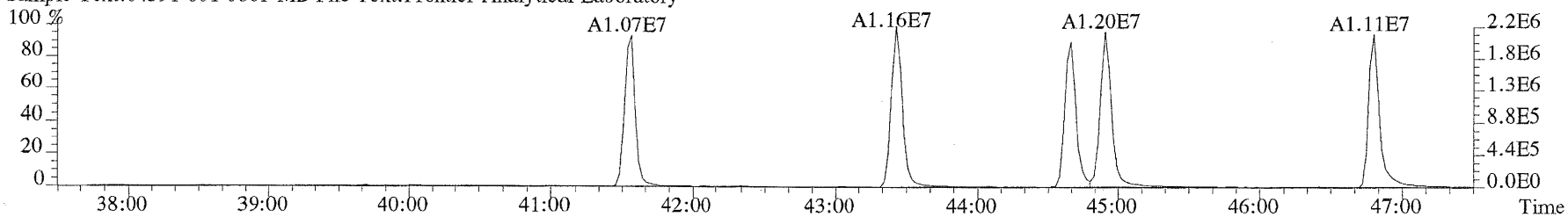
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



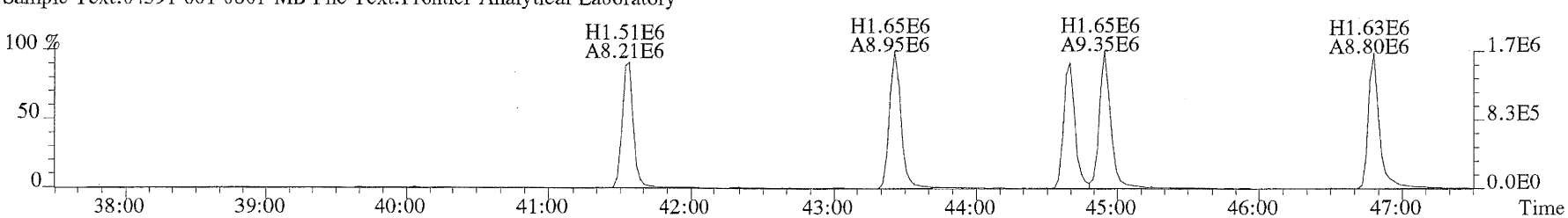
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



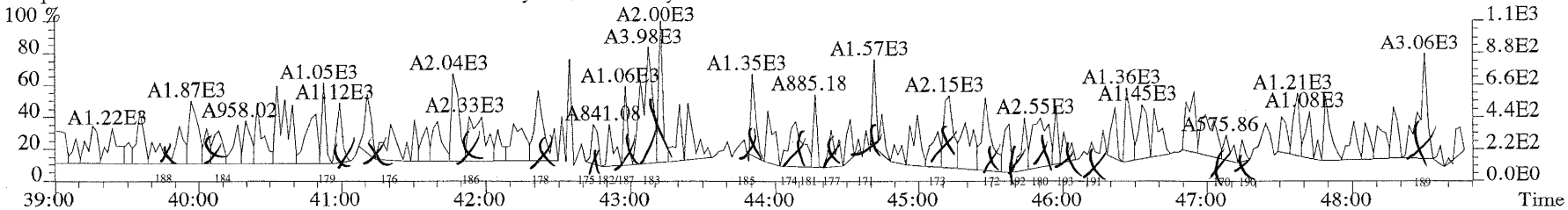
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



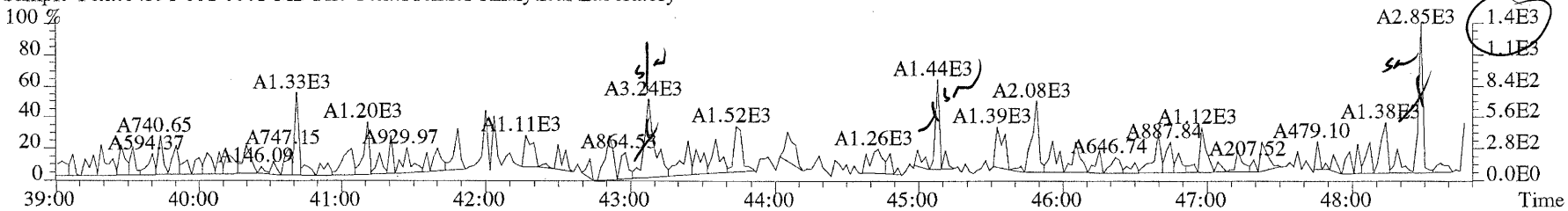
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



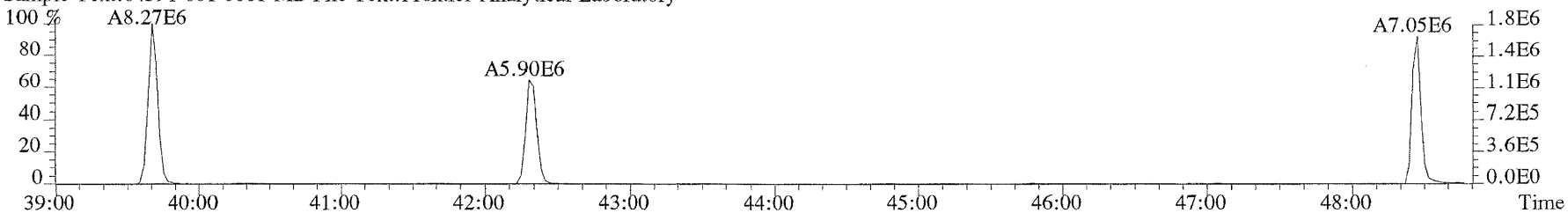
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



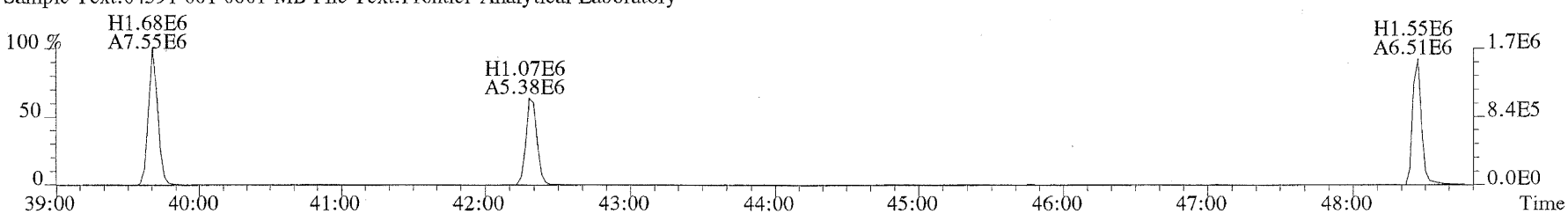
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



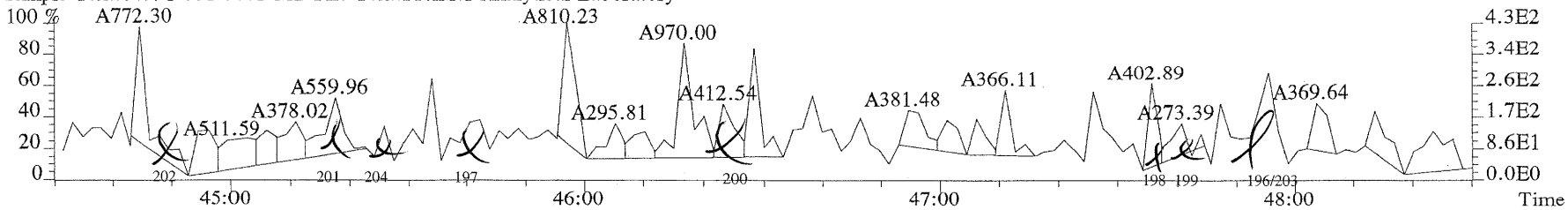
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



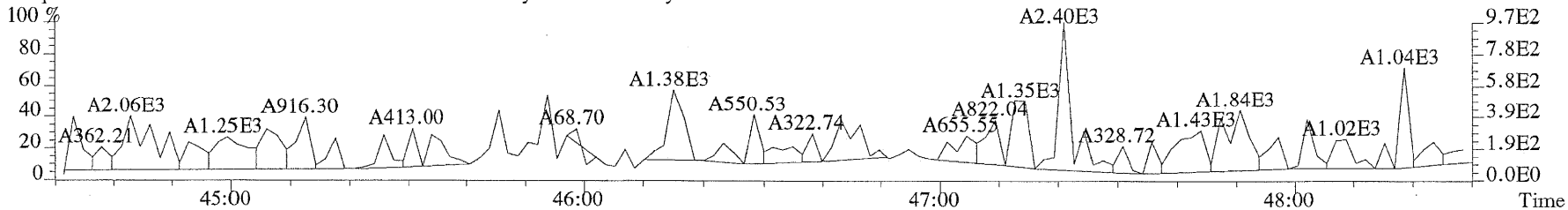
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



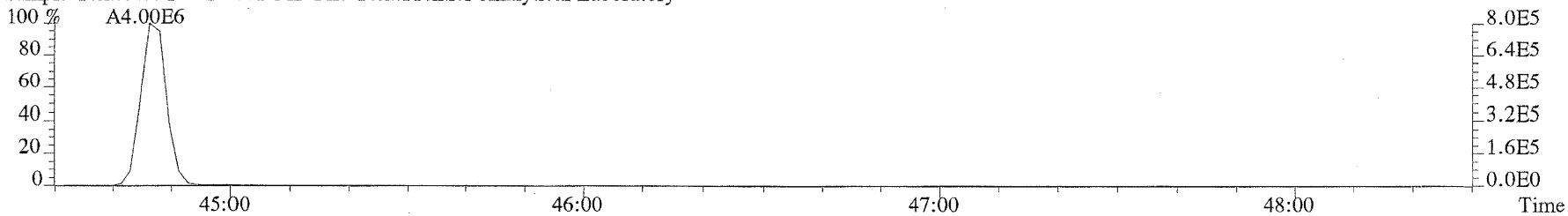
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



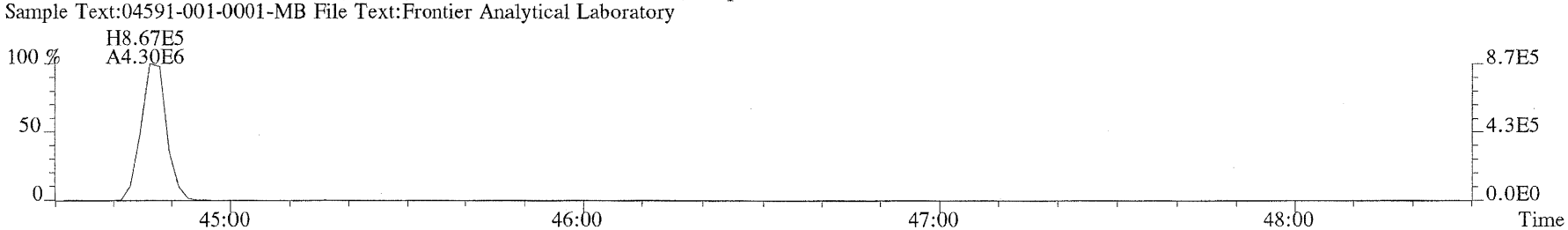
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



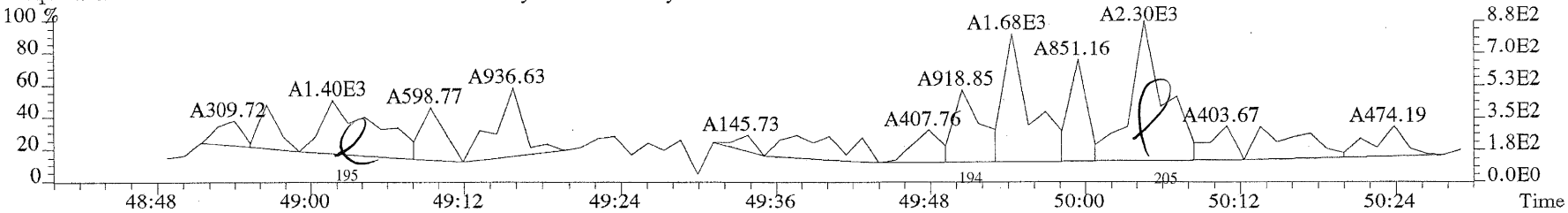
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



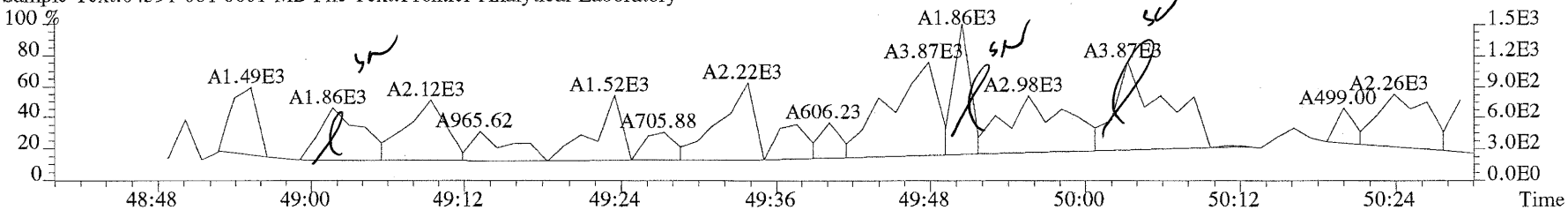
File:31JUL18Z #1-404 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



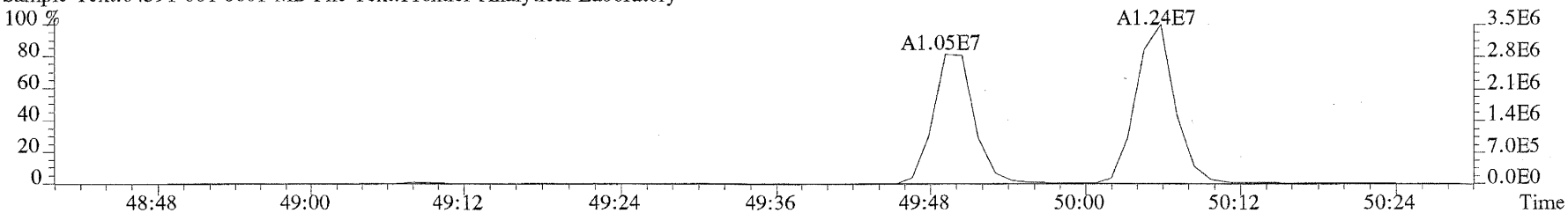
File:31JUL18Z #1-314 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



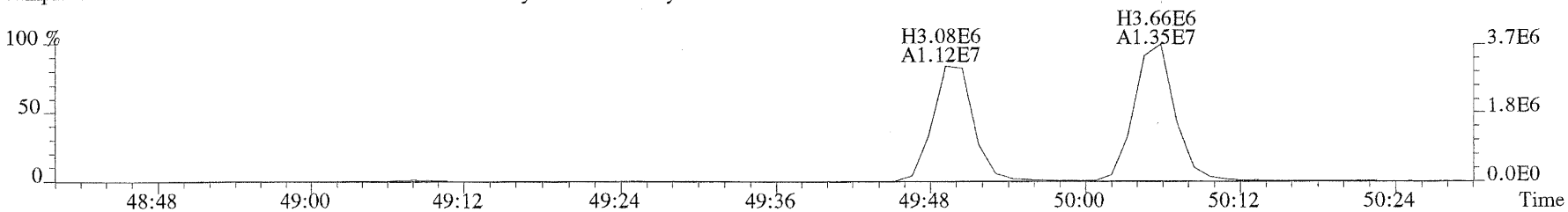
File:31JUL18Z #1-314 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



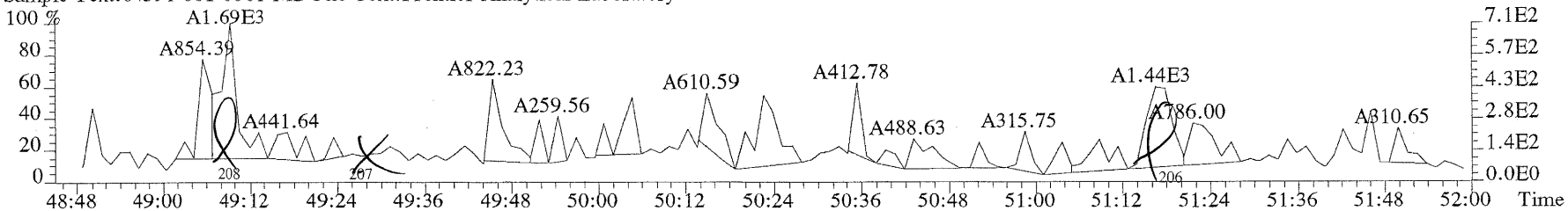
File:31JUL18Z #1-314 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



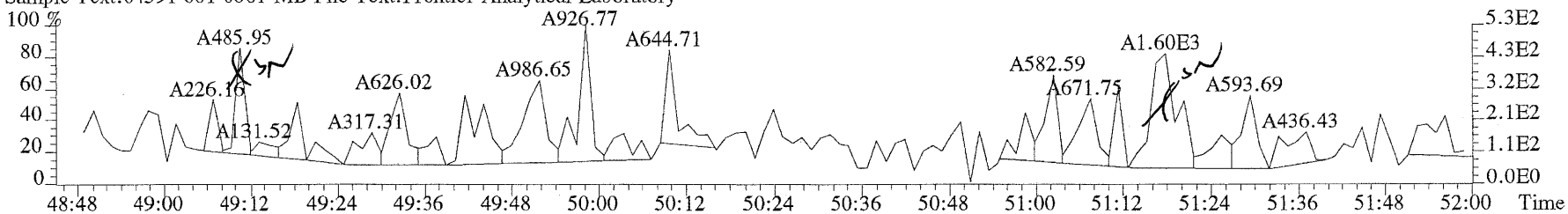
File:31JUL18Z #1-314 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



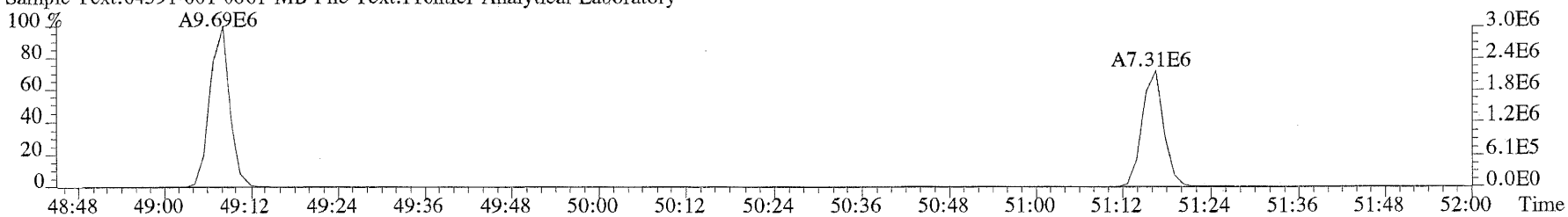
File:31JUL18Z #1-314 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



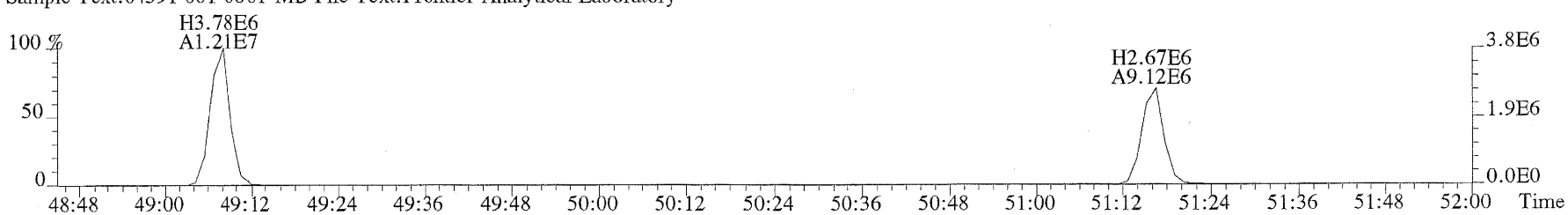
File:31JUL18Z #1-314 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



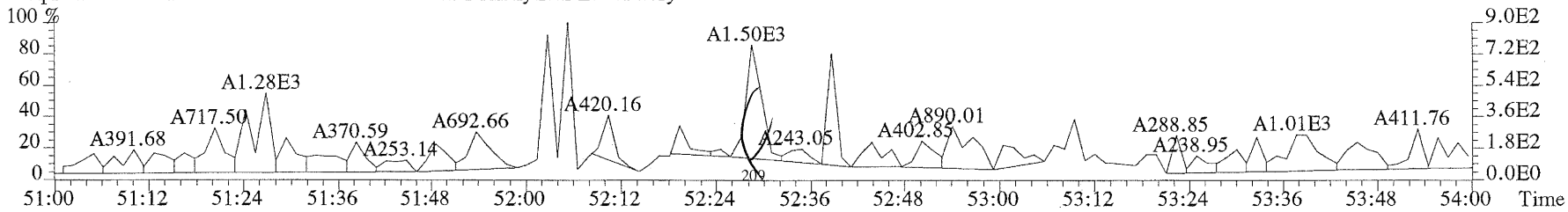
File:31JUL18Z #1-314 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



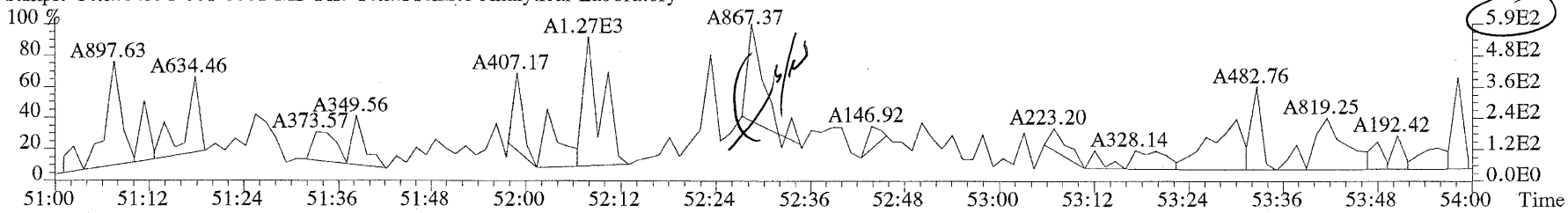
File:31JUL18Z #1-314 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



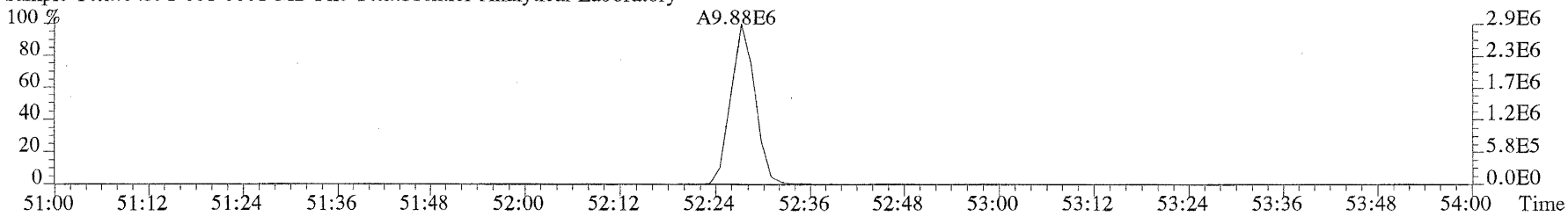
File:31JUL18Z #1-314 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



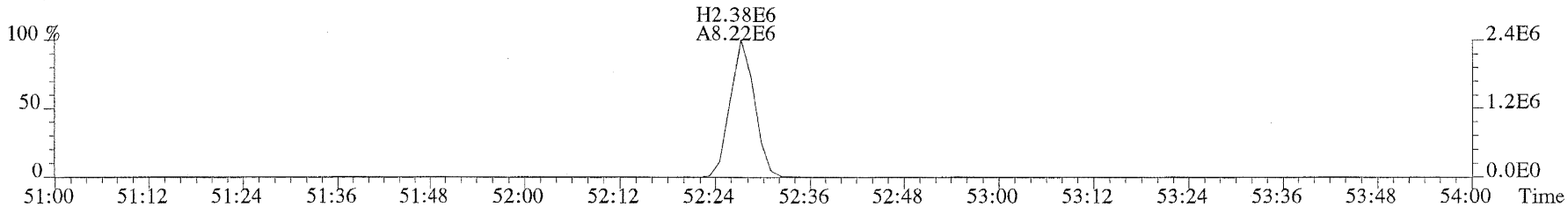
File:31JUL18Z #1-314 Acq:31-JUL-2018 13:08:20 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 13:08:20 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:04591-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 13:08:20 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:04591-001-0001-MB File Text:Frontier Analytical Laboratory



4591-001-0001-OPR

Frontier Analytical Laboratory

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

Lab Name: Frontier Analytical Laboratory

Matrix (aqueous/solid/leachate): Solid OPR Data Filename: 31JUL18Z Sam:3

Ext. Date: 7/27/18 Shift: Day Analysis Date: 31-JUL-18 12:09:55

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	50.9	30.0 - 67.5
PCB-3	50	52.6	30.0 - 67.5
PCB-4	50	47.3	30.0 - 67.5
PCB-15	50	48.2	30.0 - 67.5
PCB-19	50	52.2	30.0 - 67.5
PCB-37	50	44.7	30.0 - 67.5
PCB-54	50	52.7	30.0 - 67.5
PCB-77	50	52.4	30.0 - 67.5
PCB-81	50	52.5	30.0 - 67.5
PCB-104	50	52.2	30.0 - 67.5
PCB-105	50	51.3	30.0 - 67.5
PCB-114	50	49.1	30.0 - 67.5
PCB-118	50	58.5	30.0 - 67.5
PCB-123	50	42.0	30.0 - 67.5
PCB-126	50	49.0	30.0 - 67.5
PCB-155	50	54.2	30.0 - 67.5
PCB-156	50	53.9	30.0 - 67.5
PCB-157	50	49.8	30.0 - 67.5
PCB-167	50	55.7	30.0 - 67.5
PCB-169	50	53.6	30.0 - 67.5
PCB-188	50	53.7	30.0 - 67.5
PCB-189	50	51.8	30.0 - 67.5
PCB-202	50	61.8	30.0 - 67.5
PCB-205	50	52.1	30.0 - 67.5
PCB-206	50	57.0	30.0 - 67.5
PCB-208	50	52.9	30.0 - 67.5
PCB-209	50	52.4	30.0 - 67.5

Analyst: [signature] Date: 8/6/18

Frontier Analytical Laboratory

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

Lab Name: Frontier Analytical Laboratory

Matrix (aqueous/solid/leachate): Solid OPR Data Filename: 31JUL18Z Sam:3

Ext. Date: 7/27/18 Shift: Day Analysis Date: 31-JUL-18 12:09:55

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	89.7	15.0 - 145
13C-PCB-3	100	85.8	15.0 - 145
13C-PCB-4	100	86.7	15.0 - 145
13C-PCB-15	100	91.5	15.0 - 145
13C-PCB-19	100	85.7	15.0 - 145
13C-PCB-37	100	95.4	15.0 - 145
13C-PCB-54	100	100	15.0 - 145
13C-PCB-77	100	94.6	40.0 - 145
13C-PCB-81	100	85.9	40.0 - 145
13C-PCB-104	100	88.0	40.0 - 145
13C-PCB-105	100	95.5	40.0 - 145
13C-PCB-114	100	92.0	40.0 - 145
13C-PCB-118	100	88.2	40.0 - 145
13C-PCB-123	100	93.0	40.0 - 145
13C-PCB-126	100	97.4	40.0 - 145
13C-PCB-155	100	85.8	40.0 - 145
13C-PCB-156	100	93.1	40.0 - 145
13C-PCB-157	100	94.9	40.0 - 145
13C-PCB-167	100	92.0	40.0 - 145
13C-PCB-169	100	102	40.0 - 145
13C-PCB-188	100	93.4	40.0 - 145
13C-PCB-189	100	94.4	40.0 - 145
13C-PCB-202	100	82.5	40.0 - 145
13C-PCB-205	100	92.5	40.0 - 145
13C-PCB-206	100	85.2	40.0 - 145
13C-PCB-208	100	83.9	40.0 - 145
13C-PCB-209	100	85.8	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	115	15.0 - 145
13C-PCB-111	100	93.6	40.0 - 145
13C-PCB-178	100	97.7	40.0 - 145

Analyst: _____ Date: 8/4/18

FAL ID: 04591-001-0001-OPR Filename: 31JUL18Z Sam:3 Acquired: 31-JUL-18 12:09:55 ICal: DAILY209FAL4-7-31-18
Client ID: OPR ConCal: ST073118Z1 EndCal: ST073118Z2
Results: DAILY209FAL4¶ GC Column: DB1MS Amount: 1.000

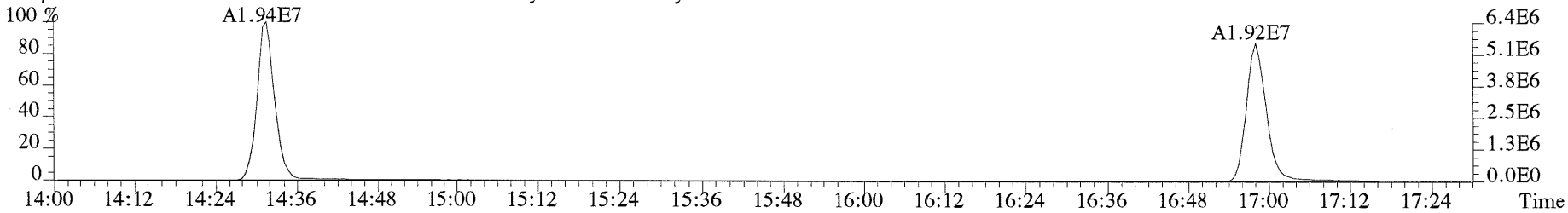
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.54e+07	3.24 y	14:31	1.28	50.9		2.50	-	-	*	
13C-PCB-1	3.90e+07	3.35 y	14:30	0.83	89.7		2.50				89.7
PCB-3	2.50e+07	3.26 y	16:58	1.27	52.6		2.50	-	-	*	
13C-PCB-3	3.76e+07	3.43 y	16:57	0.83	85.8		2.50				85.8
PCB-4	2.12e+07	1.59 y	18:11	1.44	47.3		2.50	-	-	*	
13C-PCB-4	3.12e+07	1.62 y	18:10	0.68	86.7		2.50				86.7
PCB-15	3.24e+07	1.61 y	23:45	1.38	48.2		2.50	-	-	*	
13C-PCB-15	4.87e+07	1.65 y	23:44	1.01	91.5		2.50				91.5
PCB-19	1.08e+07	1.10 y	22:04	1.31	52.2		2.50	-	-	*	
13C-PCB-19	1.59e+07	1.12 y	22:03	0.35	85.7		2.50				85.7
13C-PCB-9	5.26e+07	1.63 y	19:51	-	70.7		2.50				
PCB-37	1.70e+07	1.11 y	30:25	1.40	44.7		2.50	-	-	*	
13C-PCB-37	2.72e+07	1.10 y	30:23	1.54	95.4		2.50				95.4
PCB-54	1.42e+07	0.76 y	25:36	1.13	52.7		2.50	-	-	*	
13C-PCB-54	2.38e+07	0.79 y	25:35	1.28	100		2.50				100
PCB-104	8.19e+06	1.59 y	30:03	1.27	52.2		2.50	-	-	*	
13C-PCB-104	1.24e+07	1.58 y	30:02	0.76	88.0		2.50				88.0
13C-PCB-28	4.01e+07	1.05 y	26:41	1.88	115		2.50				115
13C-PCB-52	1.85e+07	0.77 y	28:57	-	68.5		2.50				
PCB-81	1.71e+07	0.84 y	36:11	1.25	52.5		2.50	-	-	*	
13C-PCB-81	2.61e+07	0.78 y	36:09	1.79	85.9		2.50				85.9
PCB-77	1.70e+07	0.84 y	36:45	1.17	52.4		2.50	-	-	*	
13C-PCB-77	2.77e+07	0.80 y	36:44	1.72	94.6		2.50				94.6
PCB-155	8.01e+06	1.31 y	34:13	1.21	54.2		2.50	-	-	*	
13C-PCB-155	1.22e+07	1.33 y	34:12	0.83	85.8		2.50				85.8
13C-PCB-111	1.96e+07	1.56 y	36:18	1.23	93.6		2.50				93.6
13C-PCB-101	1.70e+07	1.60 y	34:38	-	65.2		2.50				
PCB-123	1.63e+07	1.64 y	38:21	1.50	42.0		2.50	-	-	*	
13C-PCB-123	2.59e+07	1.62 y	38:19	1.55	93.0		2.50				93.0
PCB-118	1.80e+07	1.60 y	38:33	1.11	58.5		2.50	-	-	*	
13C-PCB-118	2.76e+07	1.62 y	38:31	1.75	88.2		2.50				88.2
PCB-114	1.67e+07	1.66 y	39:09	1.30	49.1		2.50	-	-	*	
13C-PCB-114	2.60e+07	1.62 y	39:07	1.58	92.0		2.50				92.0
PCB-105	1.62e+07	1.68 y	39:58	1.24	51.3		2.50	-	-	*	
13C-PCB-105	2.54e+07	1.63 y	39:56	1.49	95.5		2.50				95.5
PCB-126	1.53e+07	1.61 y	42:06	1.28	49.0		2.50	-	-	*	
13C-PCB-126	2.44e+07	1.63 y	42:06	1.40	97.4		2.50				97.4
PCB-167	1.16e+07	1.26 y	43:27	1.08	55.7		2.50	-	-	*	
13C-PCB-167	1.91e+07	1.31 y	43:26	1.16	92.0		2.50				92.0
PCB-156	1.12e+07	1.27 y	44:41	1.13	53.9		2.50	-	-	*	
13C-PCB-156	1.84e+07	1.32 y	44:40	1.10	93.1		2.50				93.1
PCB-157	1.15e+07	1.27 y	44:56	1.21	49.8		2.50	-	-	*	
13C-PCB-157	1.91e+07	1.30 y	44:54	1.13	94.9		2.50				94.9
PCB-169	1.18e+07	1.30 y	46:50	1.13	53.6		2.50	-	-	*	
13C-PCB-169	1.94e+07	1.27 y	46:48	1.06	102		2.50				102
PCB-188	8.82e+06	1.08 y	39:43	1.18	53.7		2.50	-	-	*	
13C-PCB-188	1.39e+07	1.11 y	39:42	0.83	93.4		2.50				93.4
PCB-189	7.62e+06	1.06 y	48:28	1.20	51.8		2.50	-	-	*	
13C-PCB-189	1.22e+07	1.10 y	48:27	0.72	94.4		2.50				94.4
PCB-202	4.67e+06	0.98 y	44:49	1.07	61.8		2.50	-	-	*	
13C-PCB-202	7.08e+06	0.89 y	44:48	0.48	82.5		2.50				82.5
13C-PCB-178	1.07e+07	1.10 y	42:20	0.61	97.7		2.50				97.7
13C-PCB-138	1.79e+07	1.27 y	41:34	-	64.4		2.50				

FAL ID: 04591-001-0001-OPR Filename: 31JUL18Z Sam:3 Acquired: 31-JUL-18 12:09:55 ICal: DAILY209FAL4-7-31-18 2 of 2
Client ID: OPR ConCal: ST073118Z1 EndCal: ST073118Z2
Results: DAILY209FAL4 GC Column: DB1MS Amount: 1.000

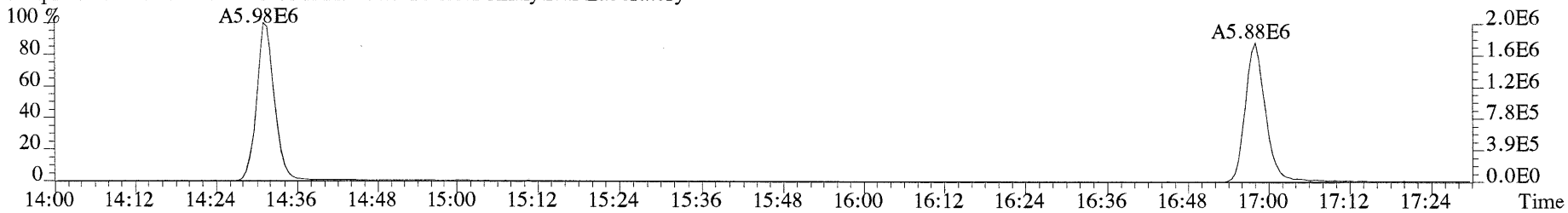
PCB-205	1.33e+07	0.94	y	50:07	1.19	52.1	2.50	-	-	*	
13C-PCB-205	2.15e+07	0.92	y	50:06	1.25	92.5	2.50				92.5
PCB-208	1.04e+07	1.33	y	49:09	0.99	52.9	2.50	-	-	*	
13C-PCB-208	1.98e+07	0.79	y	49:08	1.27	83.9	2.50				83.9
PCB-206	8.14e+06	1.34	y	51:18	0.96	57.0	2.50	-	-	*	
13C-PCB-206	1.48e+07	0.80	y	51:16	0.93	85.2	2.50				85.2
PCB-209	9.78e+06	1.17	y	52:30	1.13	52.4	2.50	-	-	*	
13C-PCB-209	1.66e+07	1.23	y	52:28	1.04	85.8	2.50				85.8
13C-PCB-194	1.86e+07	0.89	y	49:50	-	69.1	2.50				

Analyst: _____ Date: 8/6/18

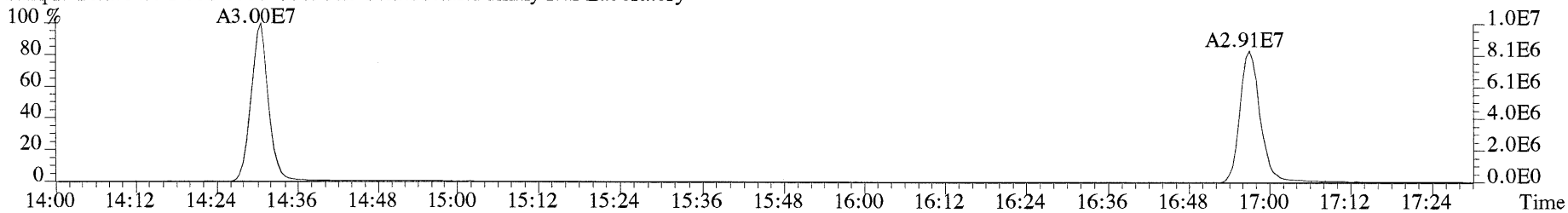
File:31JUL18Z #1-784 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



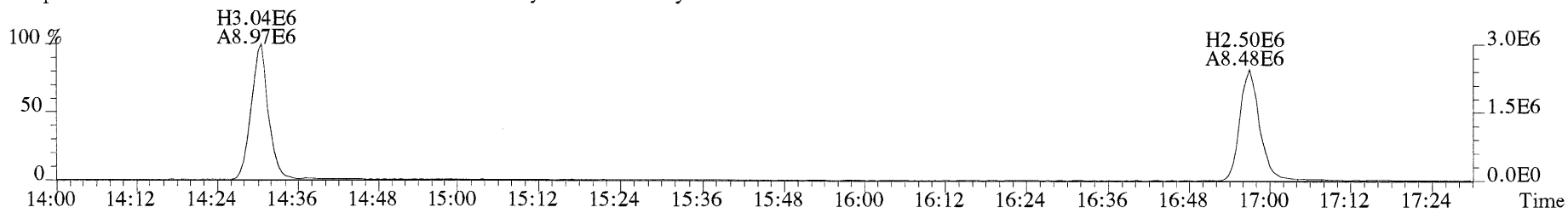
File:31JUL18Z #1-784 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



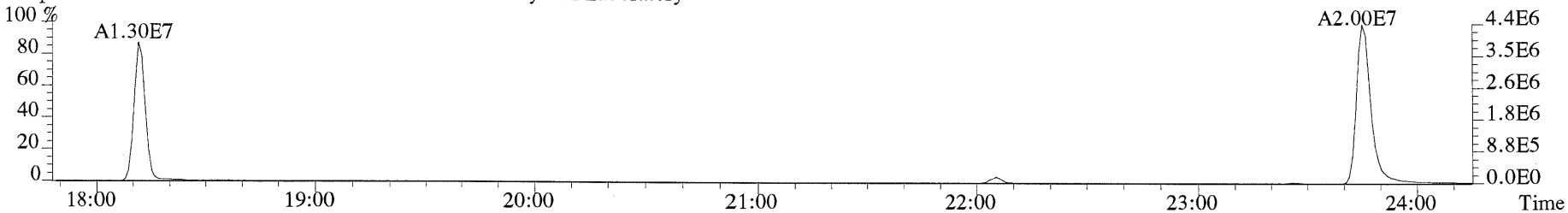
File:31JUL18Z #1-784 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



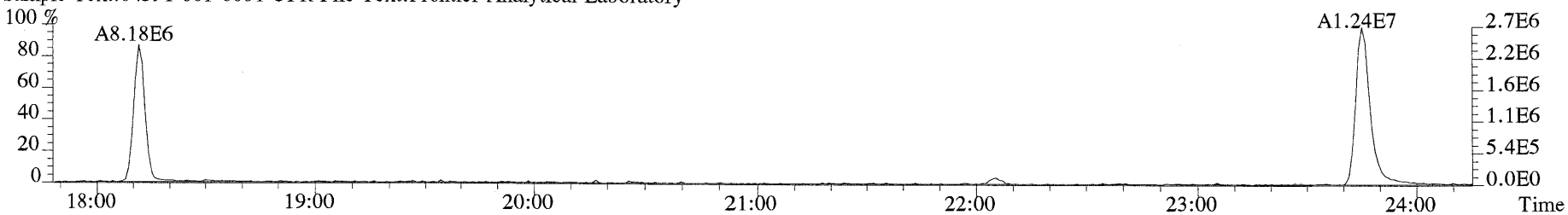
File:31JUL18Z #1-784 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



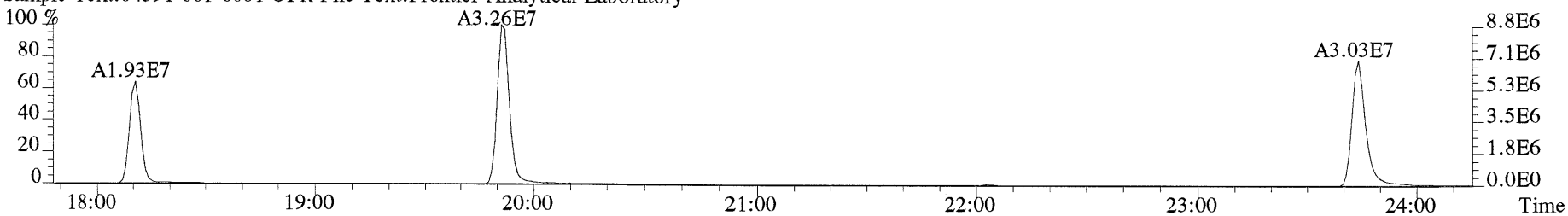
File:31JUL18Z #1-520 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



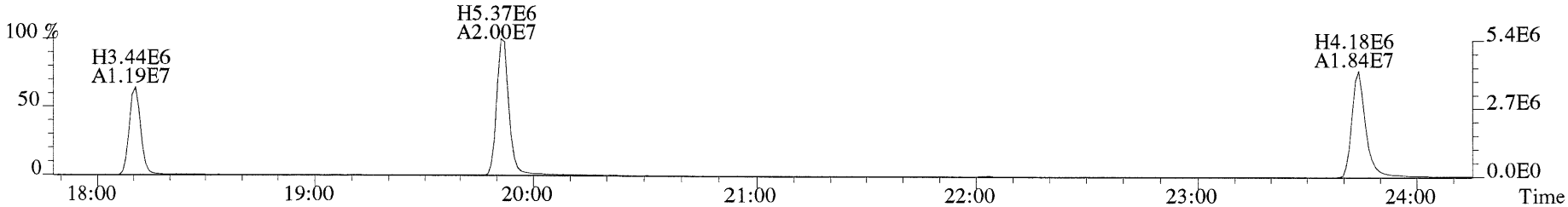
File:31JUL18Z #1-520 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



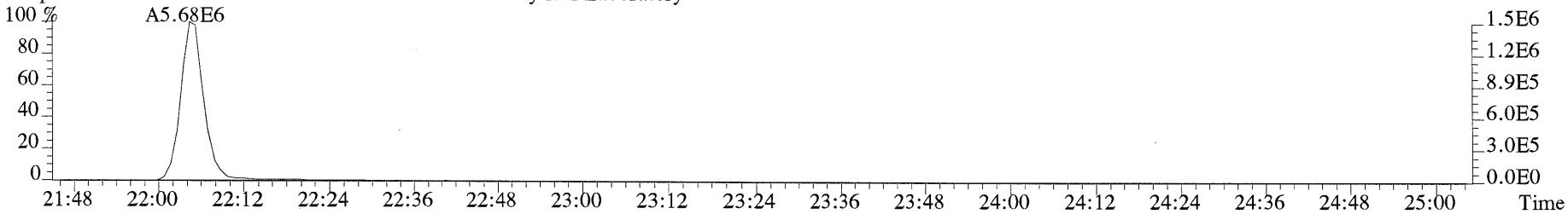
File:31JUL18Z #1-520 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



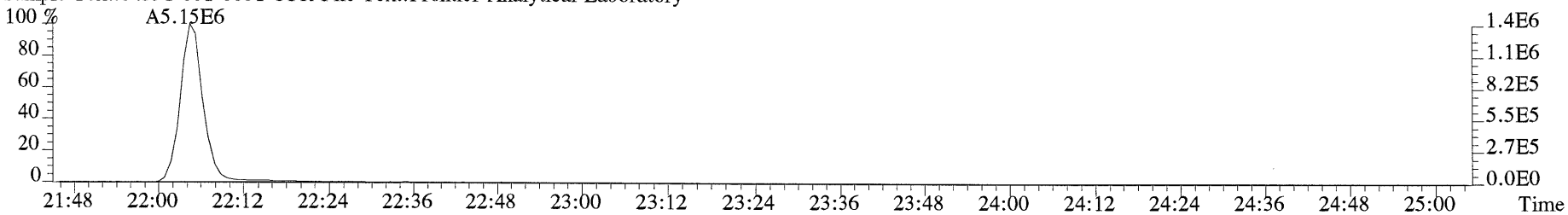
File:31JUL18Z #1-520 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



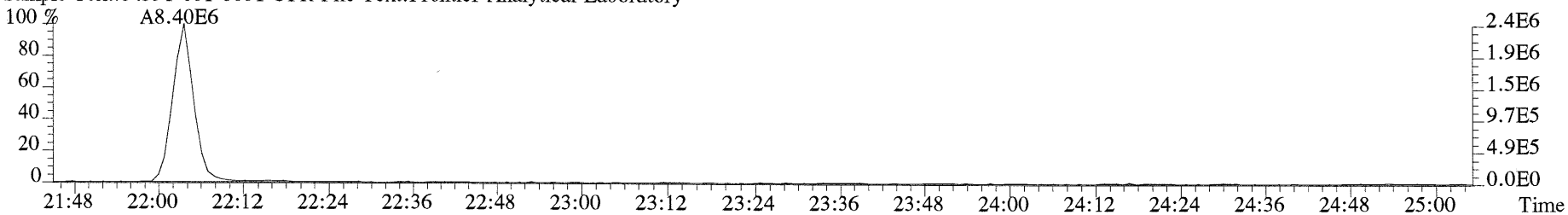
File:31JUL18Z #1-520 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



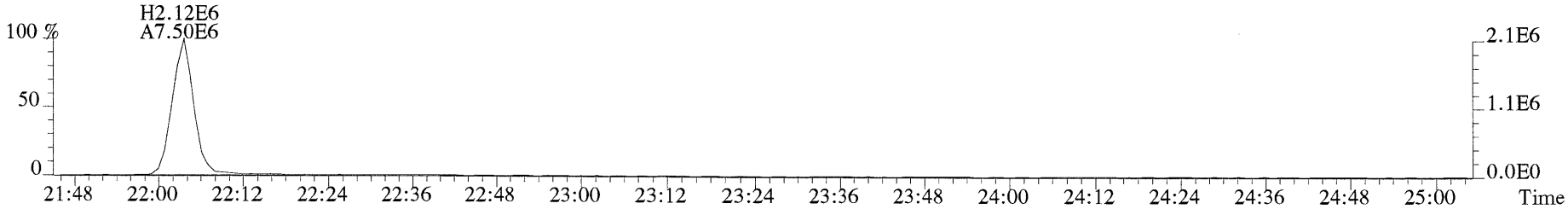
File:31JUL18Z #1-520 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



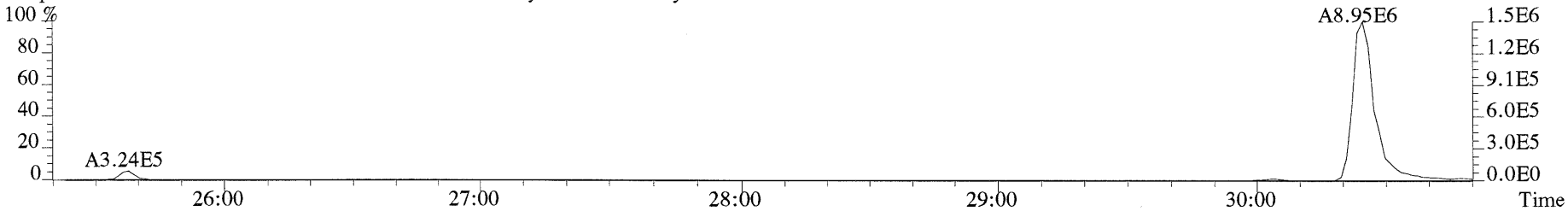
File:31JUL18Z #1-520 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



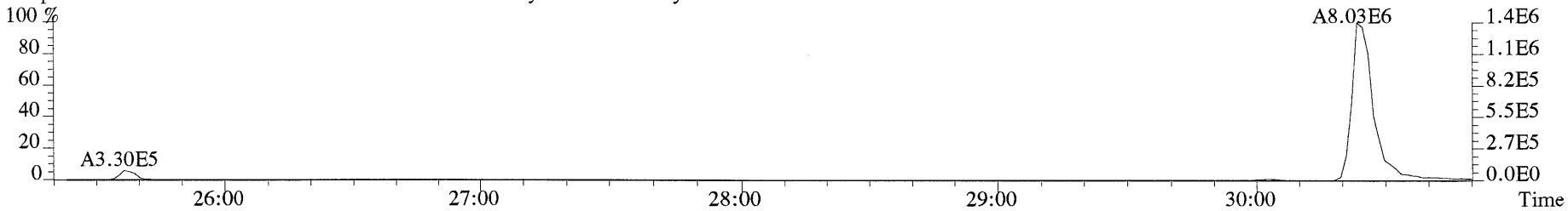
File:31JUL18Z #1-520 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



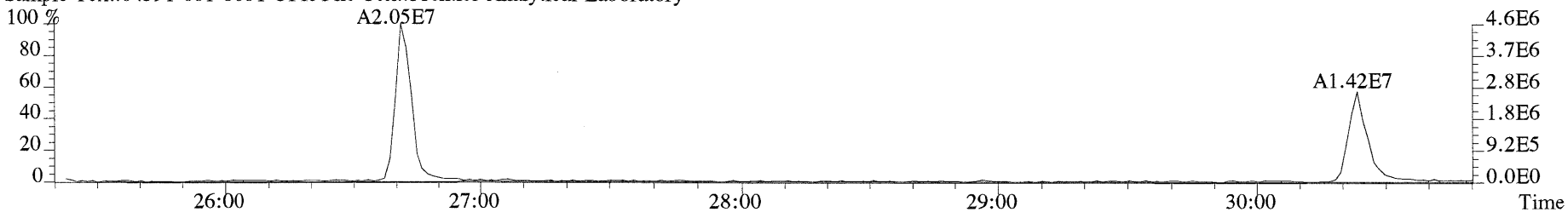
File:31JUL18Z #1-401 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



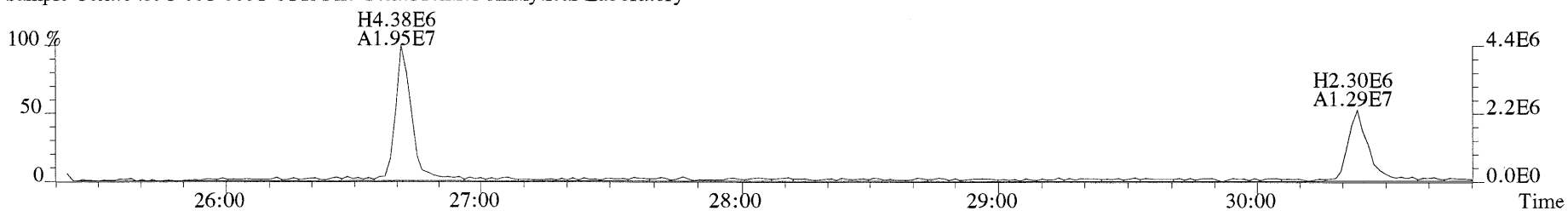
File:31JUL18Z #1-401 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



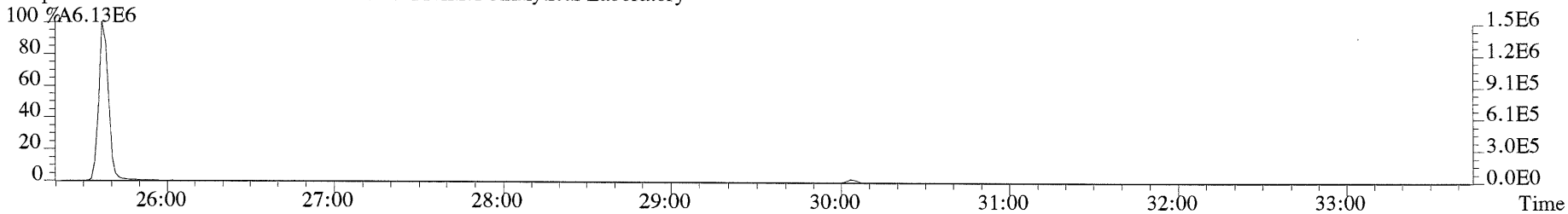
File:31JUL18Z #1-401 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



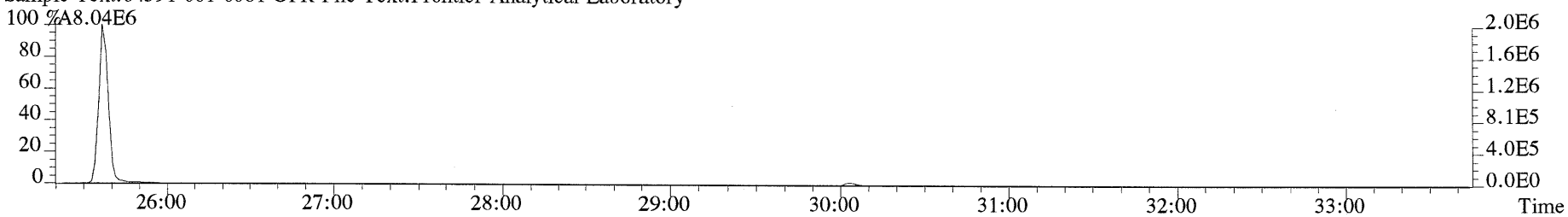
File:31JUL18Z #1-401 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



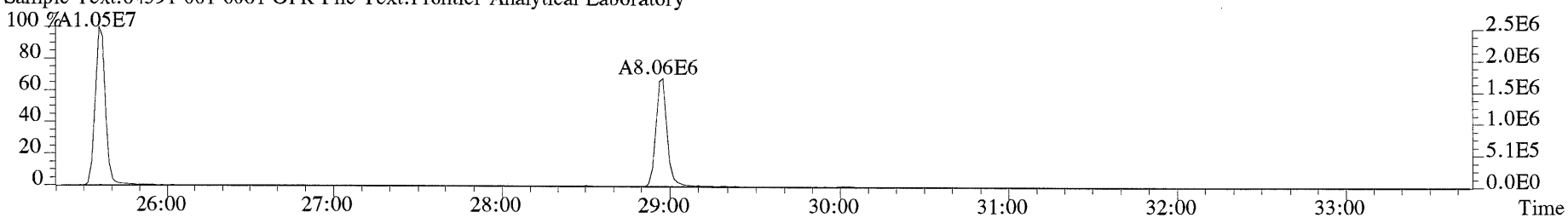
File:31JUL18Z #1-401 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



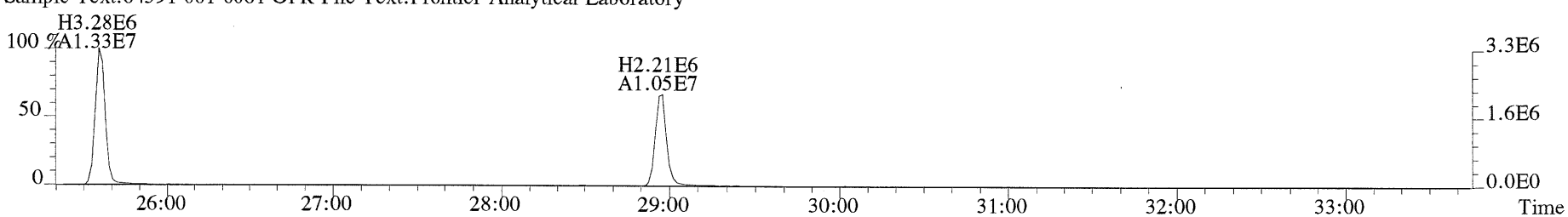
File:31JUL18Z #1-401 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



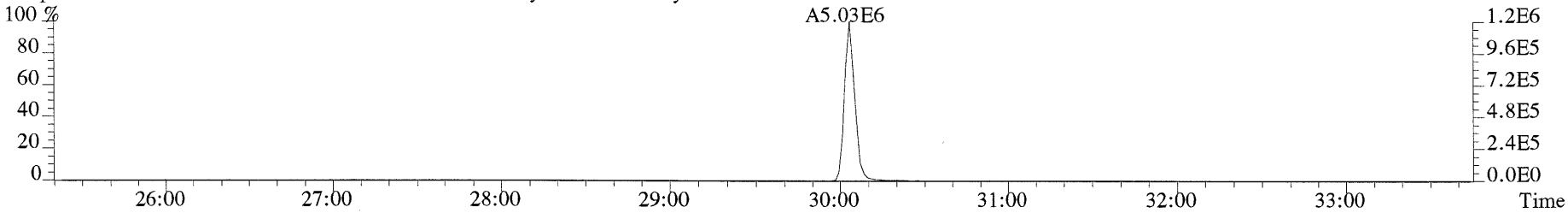
File:31JUL18Z #1-401 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



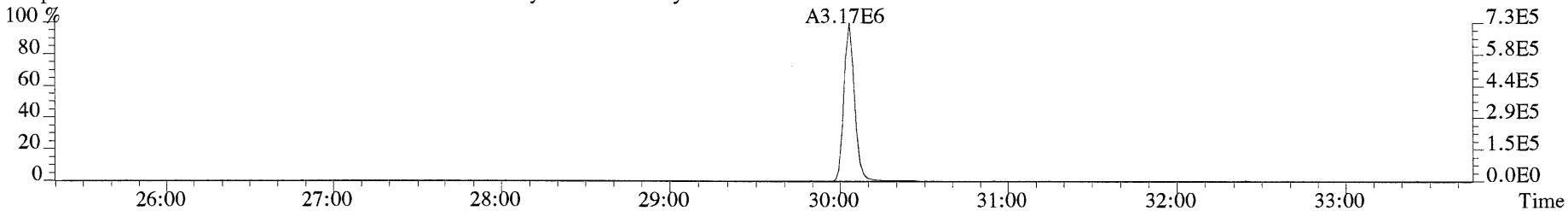
File:31JUL18Z #1-401 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



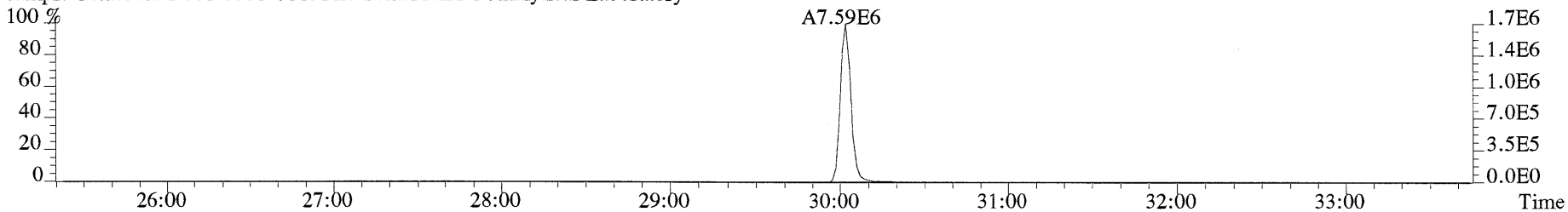
File:31JUL18Z #1-401 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



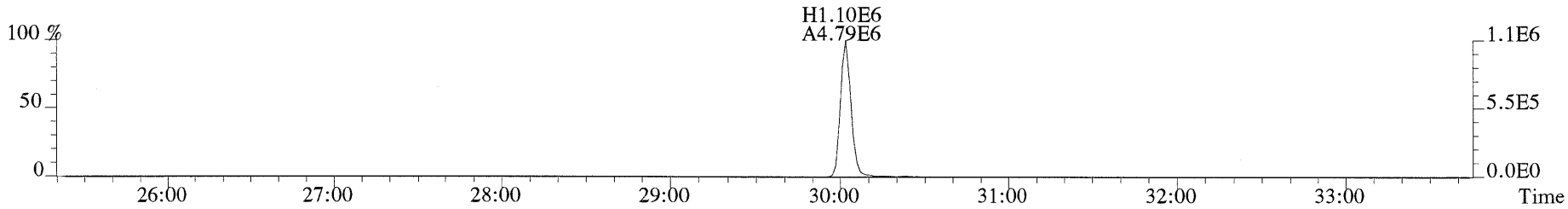
File:31JUL18Z #1-401 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



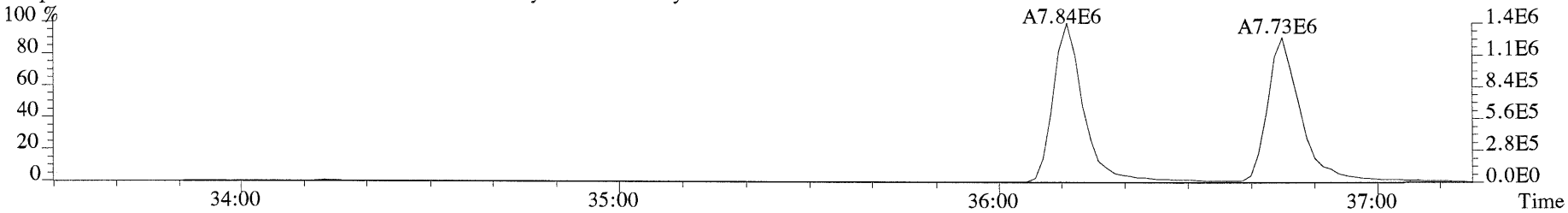
File:31JUL18Z #1-401 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



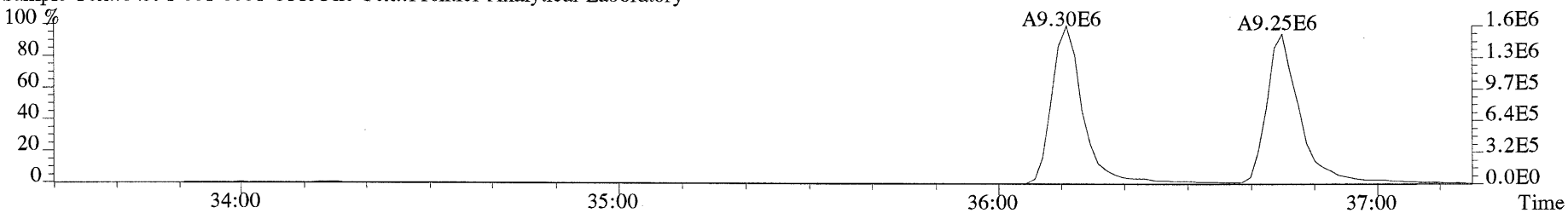
File:31JUL18Z #1-401 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-183 Acq:31-JUL-2018 12:09:55 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:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-183 Acq:31-JUL-2018 12:09:55 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:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



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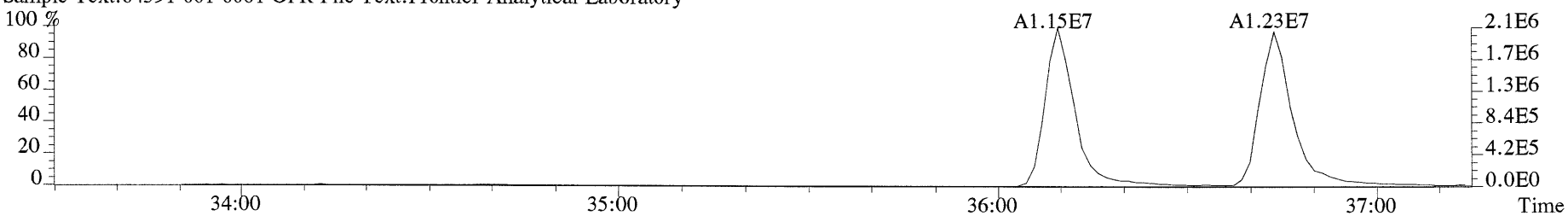
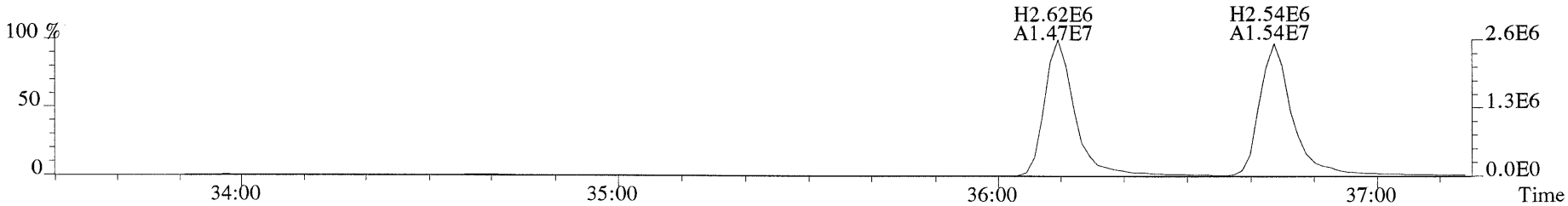
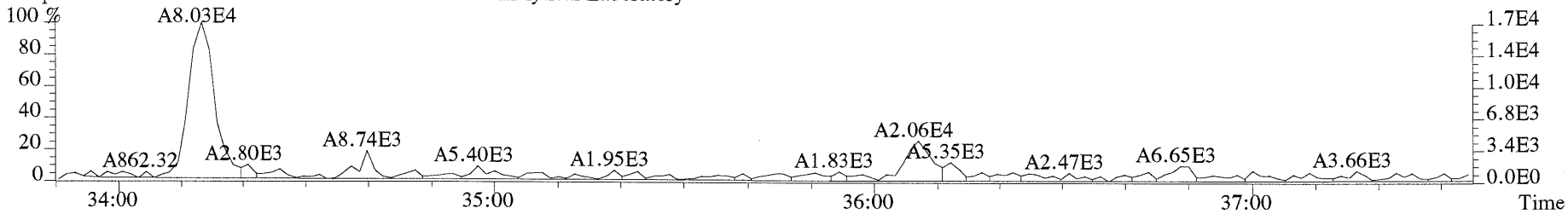
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



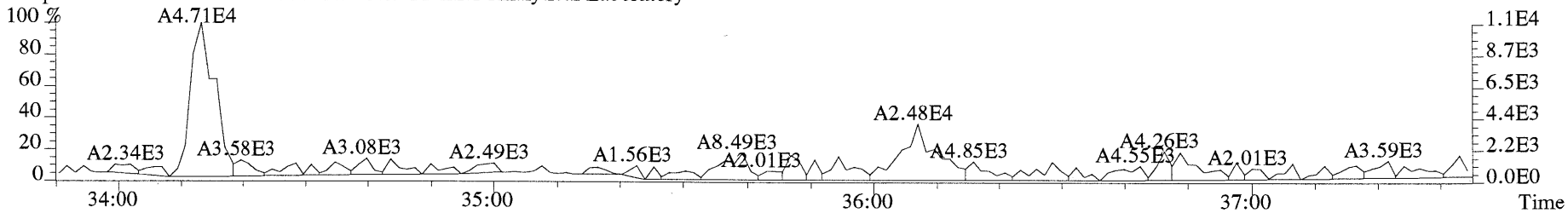
File:31JUL18Z #1-183 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



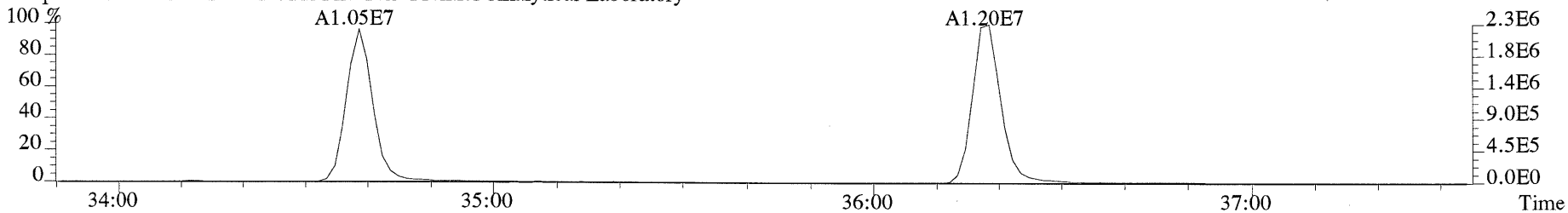
File:31JUL18Z #1-183 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



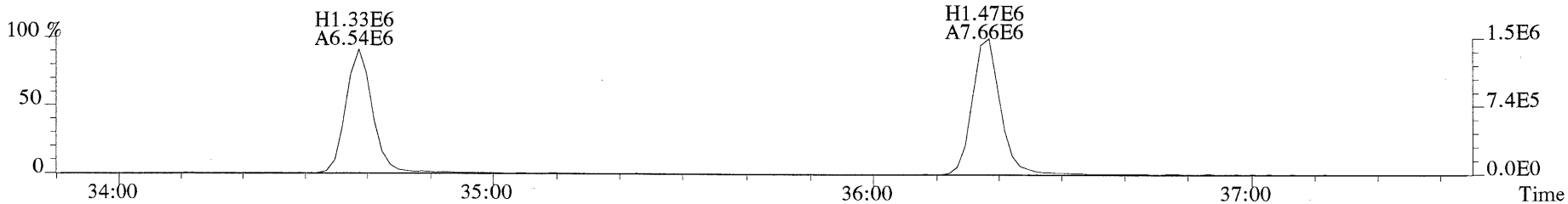
File:31JUL18Z #1-183 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



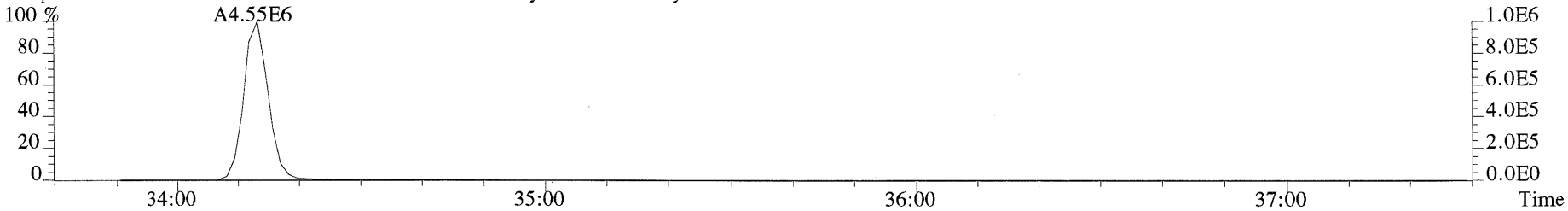
File:31JUL18Z #1-183 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



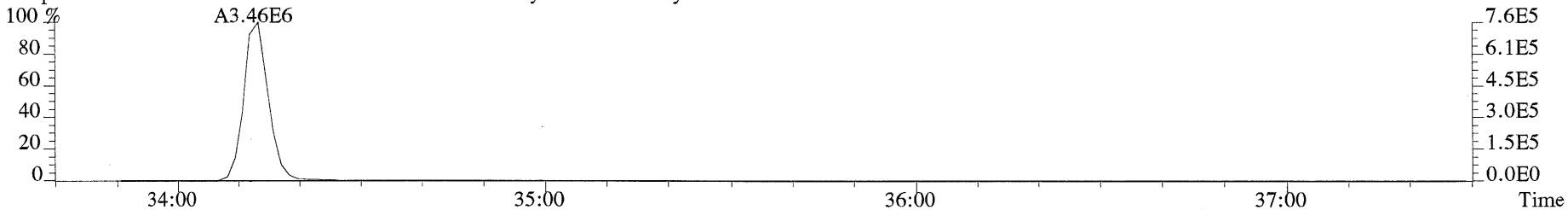
File:31JUL18Z #1-183 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



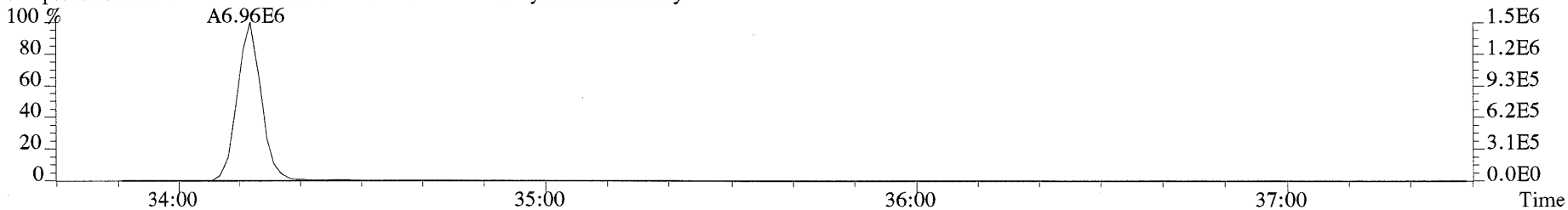
File:31JUL18Z #1-183 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



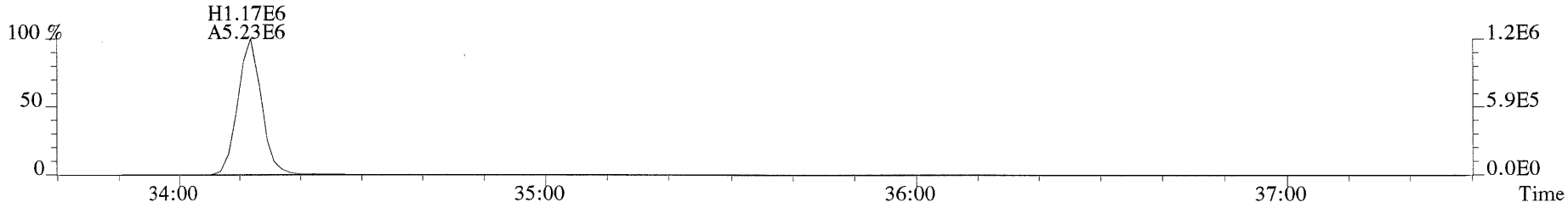
File:31JUL18Z #1-183 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



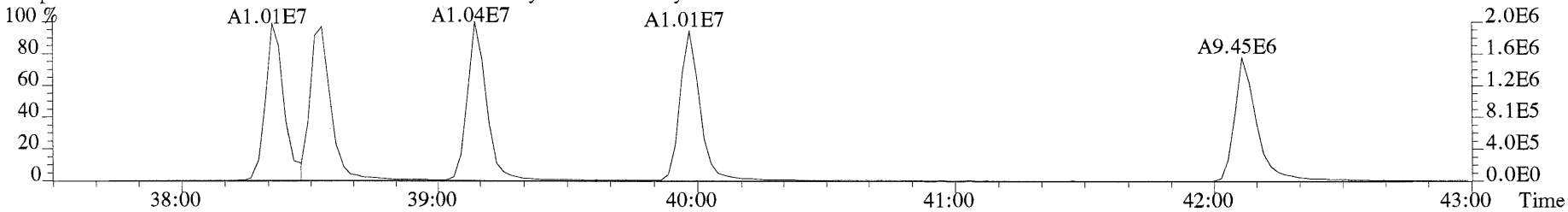
File:31JUL18Z #1-183 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



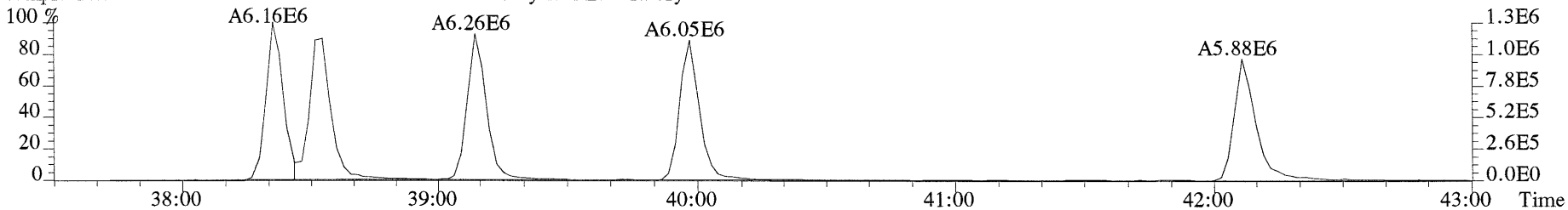
File:31JUL18Z #1-183 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



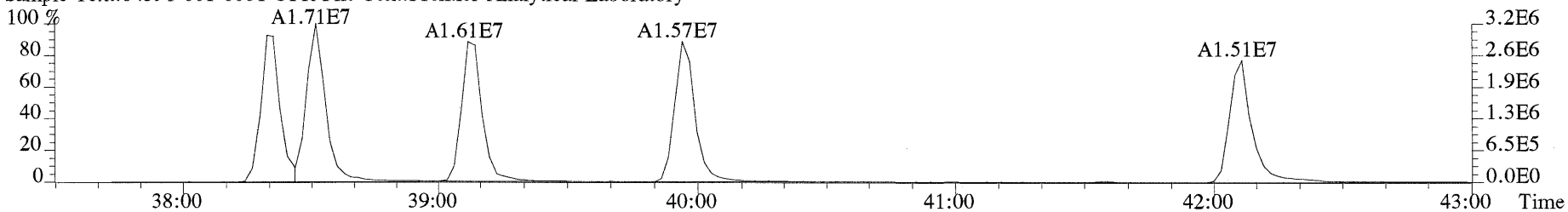
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



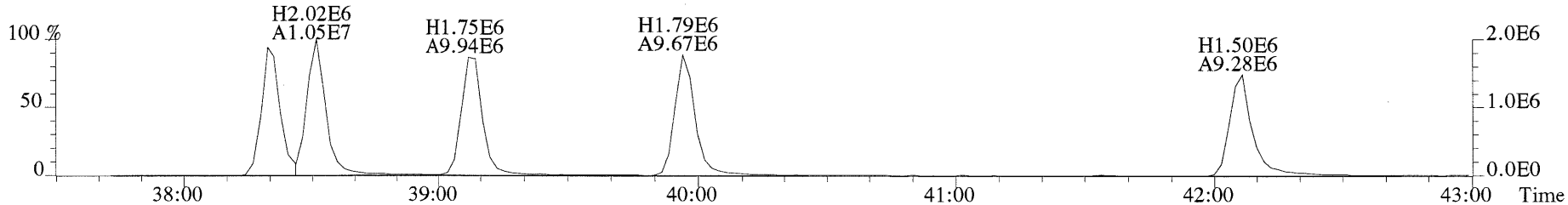
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



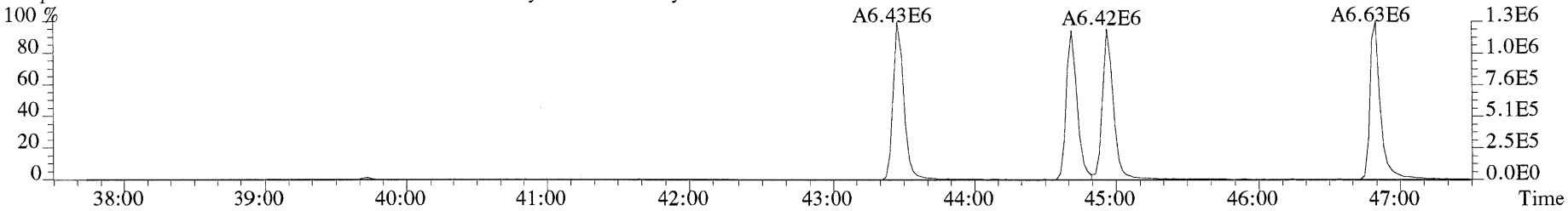
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



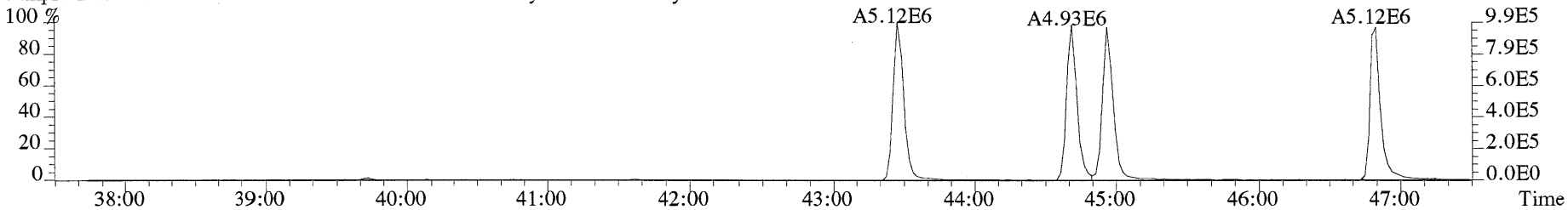
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



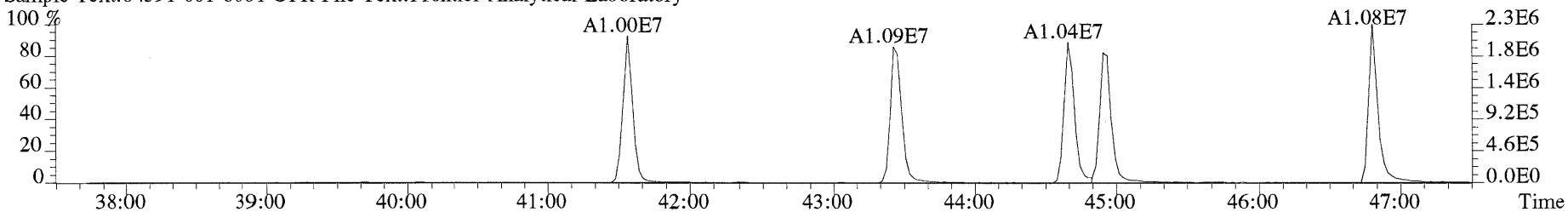
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



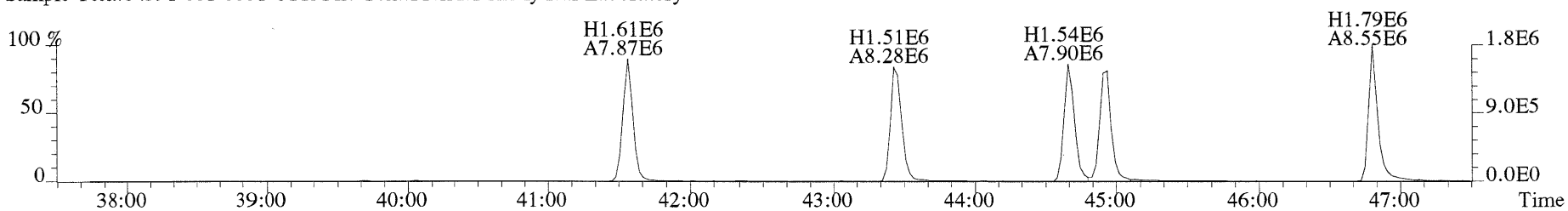
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



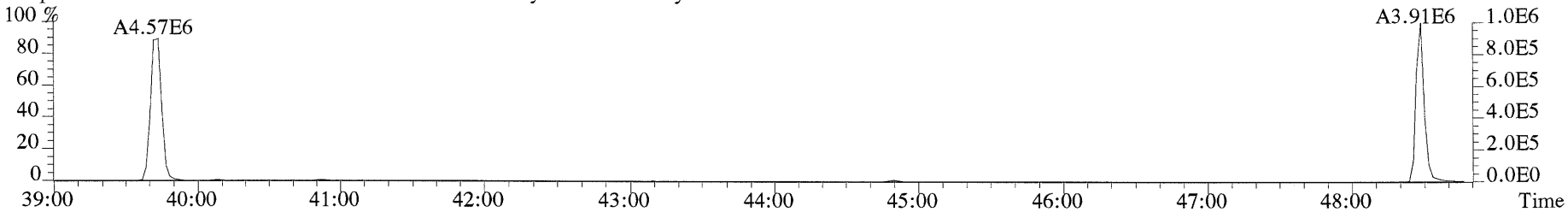
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



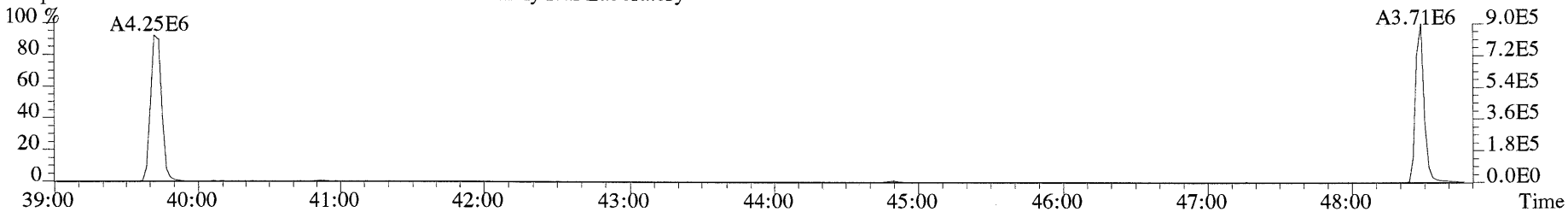
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



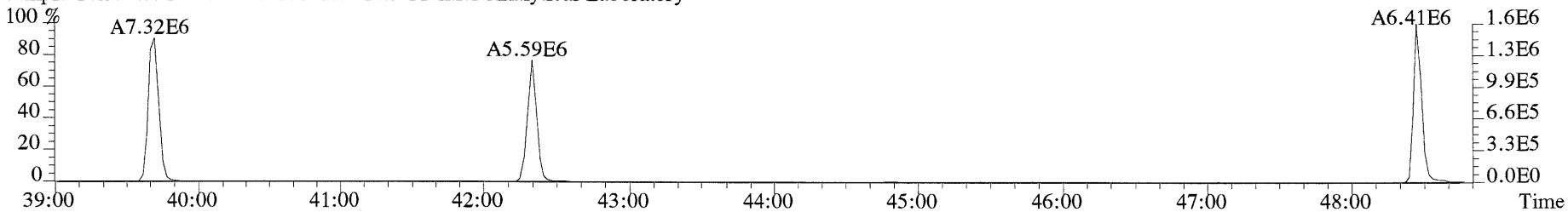
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



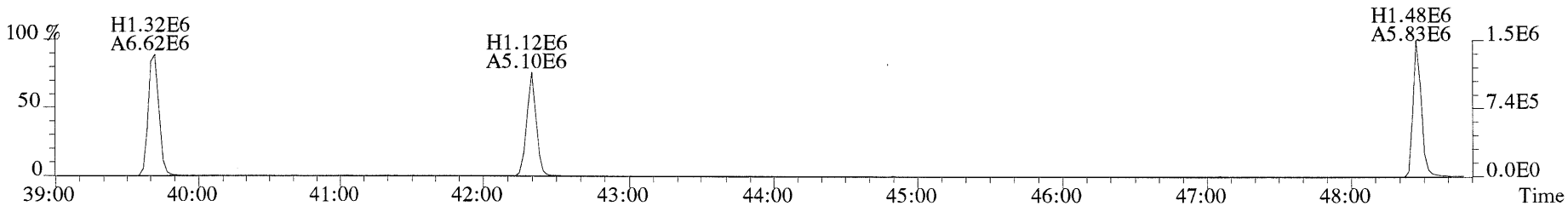
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



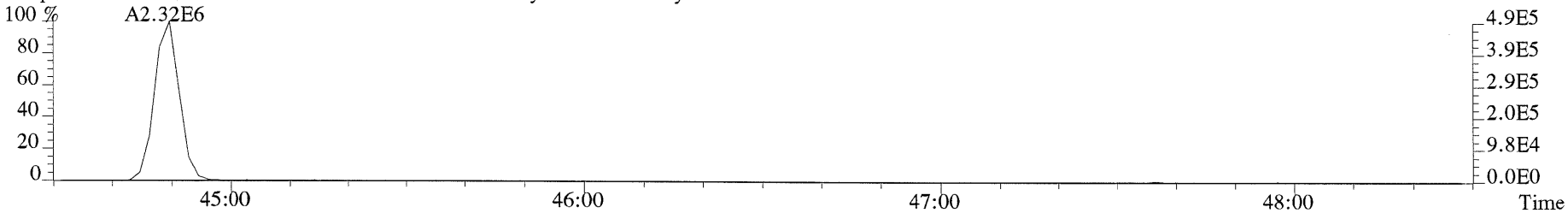
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



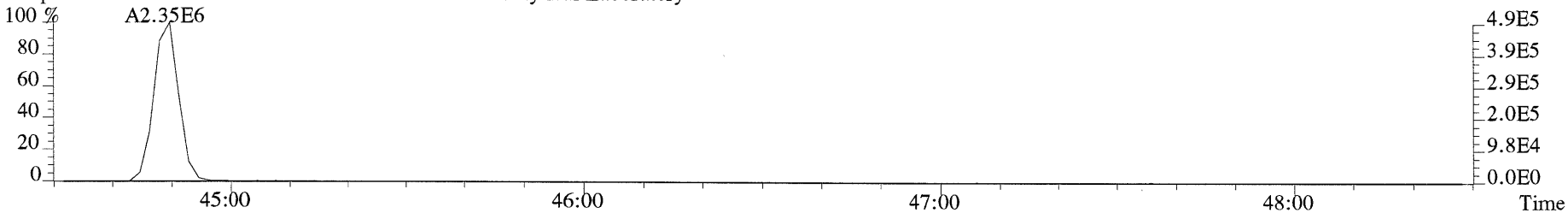
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



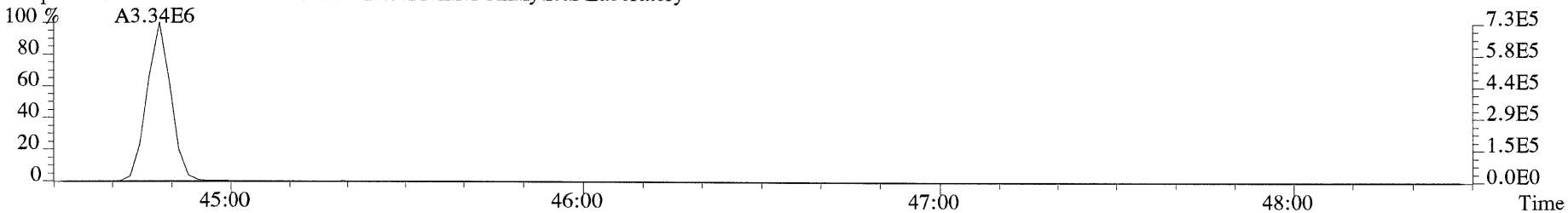
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



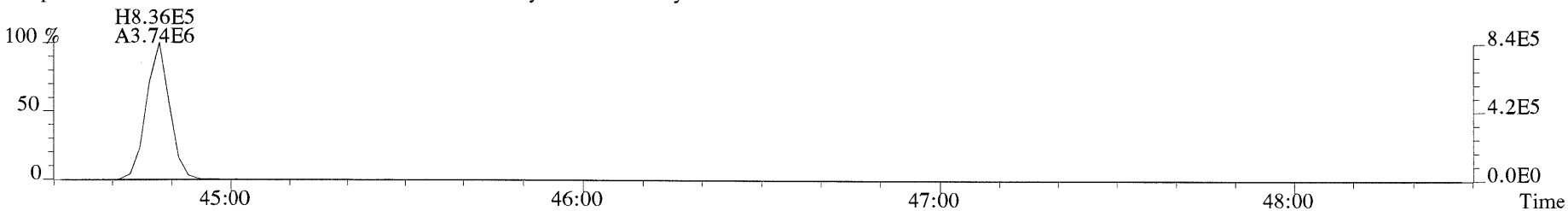
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



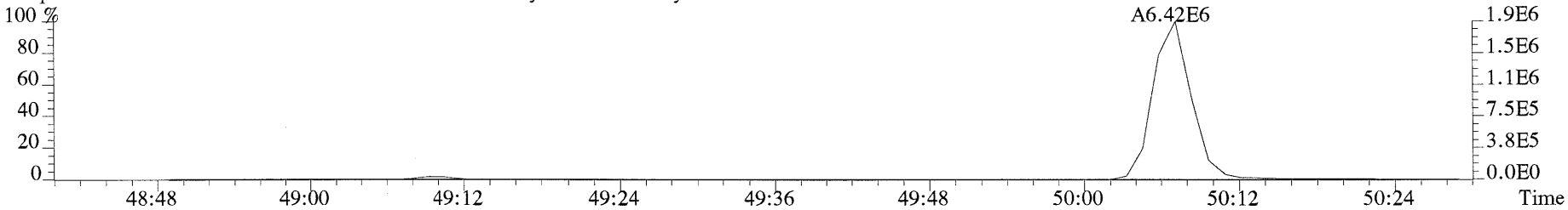
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



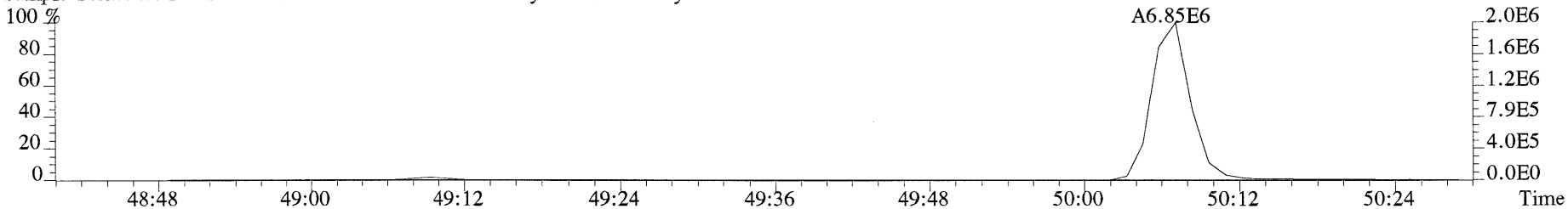
File:31JUL18Z #1-404 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



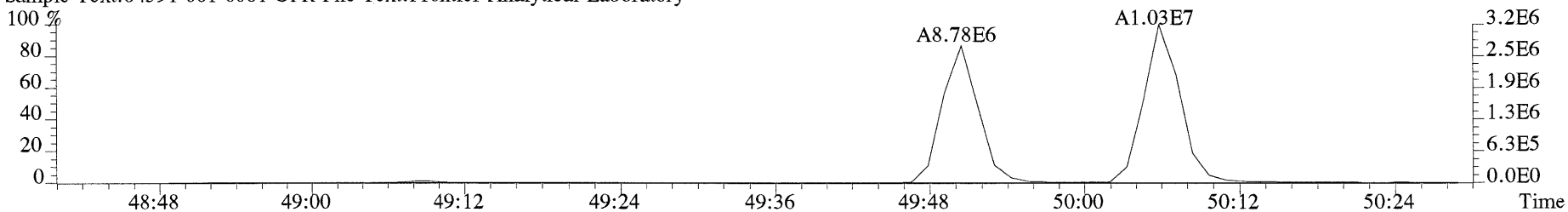
File:31JUL18Z #1-314 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



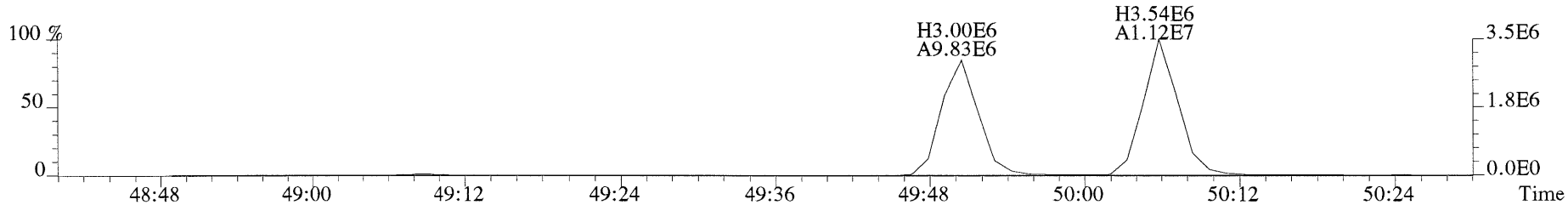
File:31JUL18Z #1-314 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



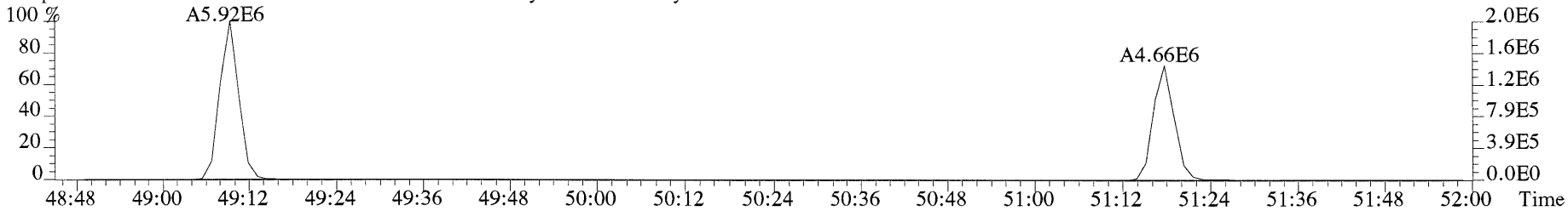
File:31JUL18Z #1-314 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



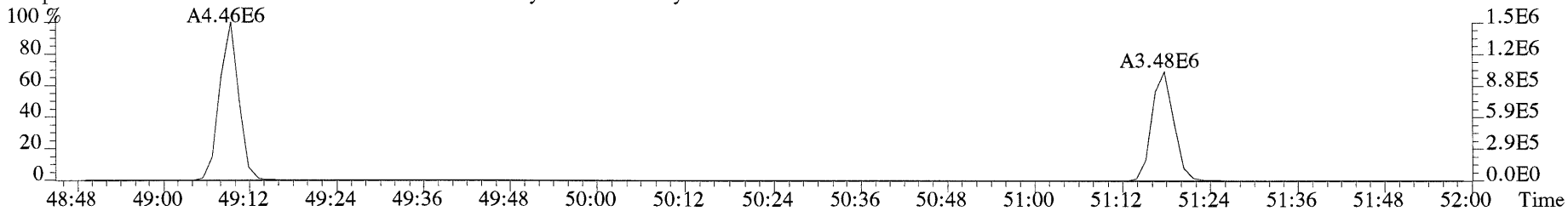
File:31JUL18Z #1-314 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



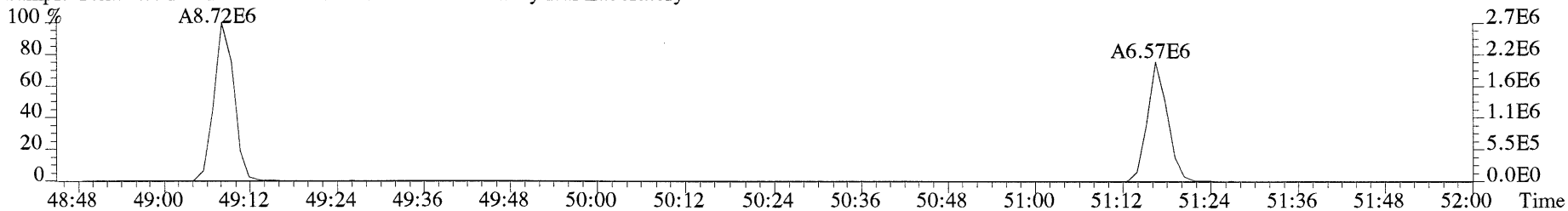
File:31JUL18Z #1-314 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



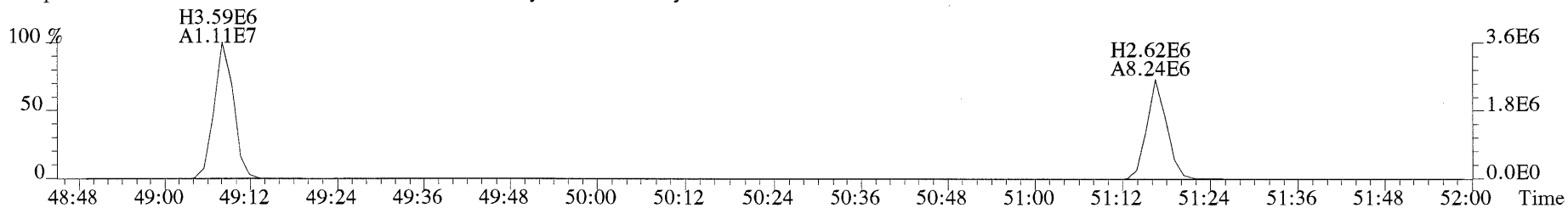
File:31JUL18Z #1-314 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



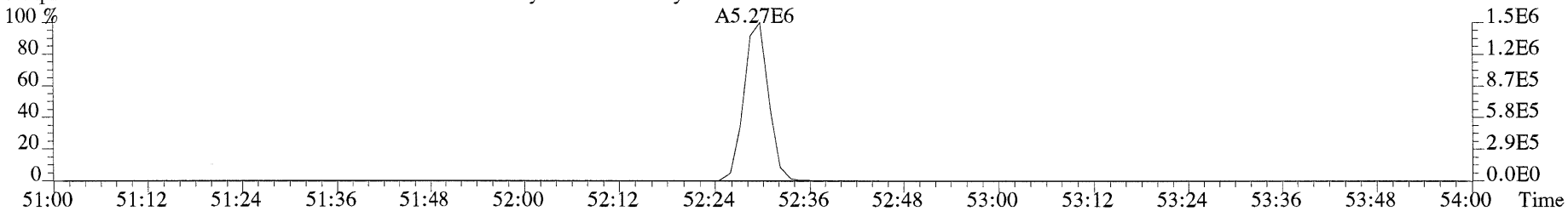
File:31JUL18Z #1-314 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



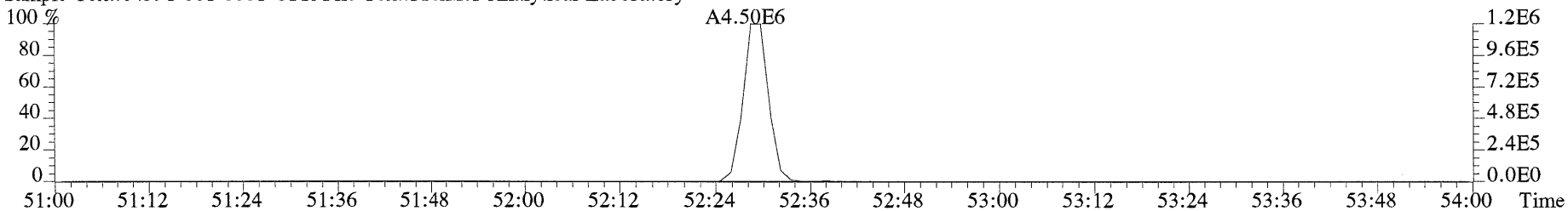
File:31JUL18Z #1-314 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



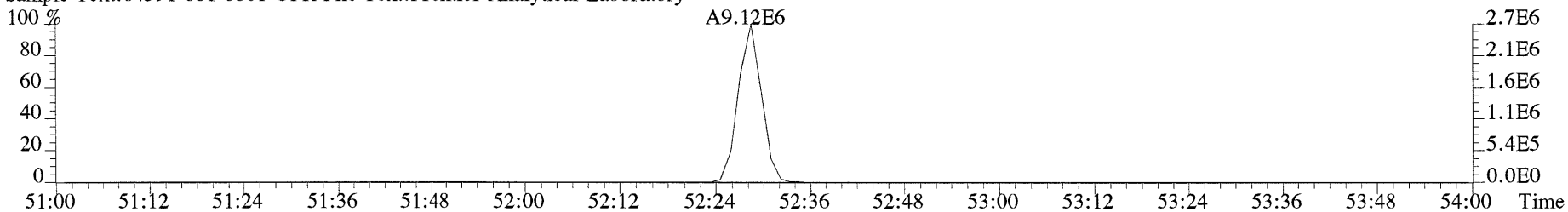
File:31JUL18Z #1-314 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



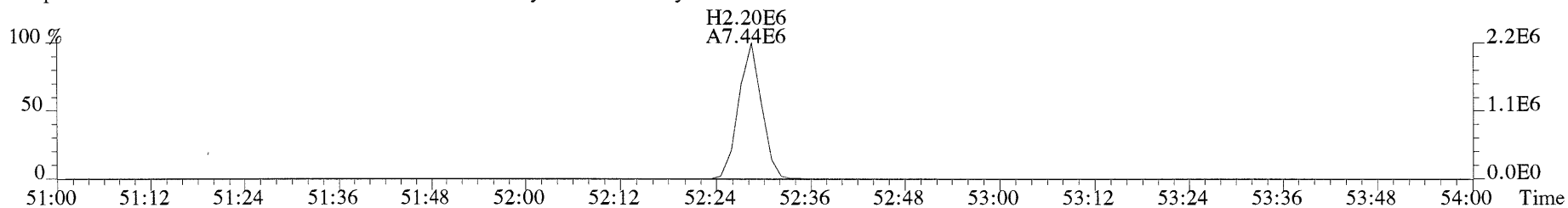
File:31JUL18Z #1-314 Acq:31-JUL-2018 12:09:55 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 12:09:55 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:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 12:09:55 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:04591-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 11719-001-0001-SA Filename: 30JUL18Z Sam:5 Acquired: 30-JUL-18 14:13:33 ICal: DAILY209FAL4-7-30-18
Client ID: LDW-Y1-IN-ENR-CA-CORE ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 5.020

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	3.54e+05	3.01 y	14:32	1.20	11.6		-	-	*			
13C-PCB-1	5.07e+07	3.19 y	14:30	0.92	1870					94.0	1.33e+07	4.09e+06
PCB-2	6.36e+04	2.98 y	16:44	1.08	2.39	J	-	-	*			
PCB-3	2.72e+05	3.20 y	16:58	1.19	9.63		-	-	*			
13C-PCB-3	4.75e+07	3.24 y	16:57	0.90	1800					90.5	1.07e+07	3.25e+06
PCB-4	2.35e+05	1.47 y	18:11	1.40	9.11		-	-	*			
PCB-10	3.23e+04	1.49 y	18:15	1.27	1.07	J	-	-	*			
13C-PCB-4	3.67e+07	1.61 y	18:10	0.68	1860					93.2	6.81e+06	4.26e+06
PCB-9	8.94e+04	1.45 y	19:53	1.40	2.70	J	-	-	*			
PCB-7	1.11e+05	1.51 y	19:54	1.49	3.13	J	-	-	*			
PCB-6	4.50e+05	1.45 y	20:30	1.40	13.6		-	-	*			
PCB-8	1.06e+06	1.57 y	20:52	1.37	32.6		-	-	*			
PCB-5	5.01e+04	1.61 y	20:58	1.45	1.46	J	-	-	*			
PCB-14	*	* n	NotFnd	1.34	*		740	1400	0.639			
PCB-11	1.58e+05	1.55 y	23:05	1.29	5.17		-	-	*			
PCB-13	1.53e+05	1.36 y	23:25	1.33	4.85		-	-	*			
PCB-12	9.26e+04	1.71 y	23:27	1.41	2.76	J	-	-	*			
PCB-15	9.29e+05	1.51 y	23:45	1.33	24.1		-	-	*			
13C-PCB-15	5.78e+07	1.64 y	23:43	1.00	1980					99.5	8.40e+06	5.16e+06
PCB-19	3.90e+04	1.12 y	22:04	1.21	2.88	J	-	-	*			
PCB-30	*	* n	NotFnd	1.67	*		1640	488	1.05			
PCB-18	3.74e+05	1.08 y	23:38	1.17	28.4		-	-	*			
PCB-17	1.86e+05	1.19 y	23:48	1.28	12.9		-	-	*			
PCB-27	4.33e+04	1.18 y	24:19	1.57	2.46	J	-	-	*			
PCB-24	3.10e+04	1.17 y	24:20	1.72	1.61	J	-	-	*			
PCB-16	1.10e+05	1.17 y	24:47	1.40	7.01		-	-	*			
PCB-32	1.74e+05	1.14 y	24:50	1.46	10.6		-	-	*			
13C-PCB-19	2.24e+07	1.10 y	22:03	0.41	1850					92.7	3.15e+06	2.89e+06
13C-PCB-9	5.83e+07	1.64 y	19:52	-	15.9							
PCB-34	*	* n	NotFnd	1.28	*		1140	1280	0.809			
PCB-23	*	* n	NotFnd	1.27	*		1140	1280	0.814			
PCB-29	*	* n	NotFnd	1.33	*		1140	1280	0.781			
PCB-26	9.44e+05	1.09 y	26:06	1.26	28.8		-	-	*			
PCB-25	4.86e+05	1.06 y	26:16	1.59	11.7		-	-	*			
PCB-31	1.40e+06	1.04 y	26:36	1.29	41.7		-	-	*			
PCB-28	1.88e+06	1.09 y	26:43	1.56	46.2		-	-	*			
PCB-20	8.44e+05	1.11 y	27:18	1.33	24.3		-	-	*		Co-elute PCB 21/33	
PCB-21	8.44e+05	1.11 y	27:18	1.33	24.3		-	-	*		Co-elute PCB 20/33	
PCB-33	8.44e+05	1.11 y	27:18	1.33	24.3		-	-	*		Co-elute PCB 20/21	
PCB-22	5.11e+05	1.05 y	27:42	1.35	14.5		-	-	*			
PCB-36	*	* n	NotFnd	1.21	*		1140	1280	0.858			
PCB-39	*	* n	NotFnd	1.27	*		1140	1280	0.815			
PCB-38	*	* n	NotFnd	1.28	*		1140	1280	0.810			
PCB-35	*	* n	NotFnd	1.15	*		1140	1280	0.902			
PCB-37	6.49e+05	1.19 y	30:28	1.37	18.3		-	-	*			
13C-PCB-37	5.18e+07	1.08 y	30:26	1.82	2050					103	6.09e+06	5.54e+06

PCB-54	*	*	n	NotFnd	1.19	*		456	624	0.621			
PCB-50	*	*	n	NotFnd	0.91	*		456	624	0.816			
PCB-53	1.06e+05	0.71	y	27:19	0.92	7.92		-	-	*			
PCB-51	4.22e+04	0.85	y	27:40	0.93	3.11	J	-	-	*			
PCB-45	6.87e+04	0.84	y	28:04	0.78	6.08		-	-	*			
PCB-46	*	*	n	NotFnd	0.76	*		456	624	0.973			
PCB-52	2.11e+06	0.81	y	28:58	1.06	138		-	-	*	Co-elute PCB 69		
PCB-69	2.11e+06	0.81	y	28:58	1.06	138		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.26	*		456	624	0.587			
PCB-43	1.06e+06	0.81	y	29:16	0.88	82.4		-	-	*	Co-elute PCB 49		
PCB-49	1.06e+06	0.81	y	29:16	0.88	82.4		-	-	*	Co-elute PCB 43		
PCB-47	3.21e+05	0.79	y	29:27	1.14	19.3		-	-	*			
PCB-48	1.58e+05	0.76	y	29:35	1.10	9.87		-	-	*	Co-elute PCB 75		
PCB-75	1.58e+05	0.76	y	29:35	1.10	9.87		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.07	*		456	624	0.688			
PCB-62	*	*	n	NotFnd	1.19	*		456	624	0.622			
PCB-44	8.59e+05	0.84	y	30:14	0.81	73.0		-	-	*			
PCB-42	3.09e+05	0.77	y	30:29	1.08	19.7		-	-	*	Co-elute PCB 59		
PCB-59	3.09e+05	0.77	y	30:29	1.08	19.7		-	-	*	Co-elute PCB 42		
PCB-72	8.58e+05	0.81	y	31:01	1.15	51.2		-	-	*	Co-elute PCB 41/71/64		
PCB-41	8.58e+05	0.81	y	31:01	1.15	51.2		-	-	*	Co-elute PCB 72/71/64		
PCB-71	8.58e+05	0.81	y	31:01	1.15	51.2		-	-	*	Co-elute PCB 72/41/64		
PCB-64	8.58e+05	0.81	y	31:01	1.15	51.2		-	-	*	Co-elute PCB 72/41/71		
PCB-68	4.72e+04	0.82	y	31:14	1.26	2.58	J	-	-	*			
PCB-40	1.03e+05	0.72	y	31:26	0.71	10.0		-	-	*			
PCB-57	*	*	n	NotFnd	1.11	*		456	624	0.664			
PCB-67	6.23e+04	0.87	y	32:05	1.10	3.90	J	-	-	*			
PCB-58	*	*	n	NotFnd	1.16	*		456	624	0.639			
PCB-63	5.18e+04	0.86	y	32:19	1.17	3.05	J	-	-	*			
PCB-74	6.62e+05	0.84	y	32:37	1.21	37.7		-	-	*			
PCB-61	1.88e+06	0.80	y	32:48	1.21	106		-	-	*	Co-elute PCB 70		
PCB-70	1.88e+06	0.80	y	32:48	1.21	106		-	-	*	Co-elute PCB 61		
PCB-76	1.56e+06	0.79	y	32:59	1.21	89.2		-	-	*	Co-elute PCB 66		
PCB-66	1.56e+06	0.79	y	32:59	1.21	89.2		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.28	*		456	624	0.577			
PCB-55	6.19e+04	0.82	y	33:30	1.20	3.56	J	-	-	*			
13C-PCB-54	2.90e+07	0.81	y	25:36	1.17	1780					89.4	3.27e+06	4.01e+06
PCB-104	*	*	n	NotFnd	1.32	*		208	232	0.587			
PCB-96	1.83e+04	1.71	y	31:13	1.16	1.89	J	-	-	*			
PCB-103	2.52e+04	1.38	y	31:47	0.99	3.07	J	-	-	*			
PCB-100	1.70e+04	1.50	y	32:06	1.01	2.01	J	-	-	*			
PCB-94	*	*	n	NotFnd	0.85	*		208	232	0.908			
PCB-98	*	*	n	NotFnd	1.05	*		208	232	0.735	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.05	*		208	232	0.735	Co-elute PCB 98		
PCB-95	1.53e+06	1.65	y	33:03	0.90	203		-	-	*			
PCB-93	*	*	n	NotFnd	0.83	*		208	232	0.929			
PCB-88	2.49e+05	1.59	y	33:26	0.93	32.1		-	-	*	Co-elute PCB 91		
PCB-91	2.49e+05	1.59	y	33:26	0.93	32.1		-	-	*	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.17	*		208	232	0.661			
13C-PCB-104	1.66e+07	1.62	y	30:04	0.62	1920					96.4	1.77e+06	1.07e+06
13C-PCB-28	5.88e+07	1.11	y	26:41	2.10	2010					101	6.86e+06	6.20e+06
13C-PCB-52	2.77e+07	0.83	y	28:57	-	16.3							

PCB-56	9.17e+05	0.81	y	33:59	1.30	38.7		-	-	*			Co-elute PCB 60
PCB-60	9.17e+05	0.81	y	33:59	1.30	38.7		-	-	*			Co-elute PCB 56
PCB-79	7.99e+04	0.70	y	34:59	1.27	3.46	J	-	-	*			
PCB-78	*	*	n	NotFnd	1.21	*		648	792	0.876			
PCB-81	1.28e+05	0.75	y	36:10	1.33	5.42		-	-	*			
13C-PCB-81	3.55e+07	0.80	y	36:09	1.59	2060					103	3.00e+06	3.75e+06
PCB-77	3.10e+05	0.77	y	36:44	1.22	13.7		-	-	*			
13C-PCB-77	3.71e+07	0.80	y	36:43	1.65	2070					104	3.04e+06	3.72e+06
PCB-155	*	*	n	NotFnd	1.16	*		248	224	0.480			
PCB-150	*	*	n	NotFnd	1.06	*		248	224	0.524			
PCB-152	*	*	n	NotFnd	1.01	*		248	224	0.550			
PCB-145	*	*	n	NotFnd	1.05	*		248	224	0.532			
PCB-136	3.44e+05	1.31	y	36:35	1.01	38.5		-	-	*			
PCB-148	*	*	n	NotFnd	0.78	*		248	224	0.714			
PCB-154	4.19e+04	1.38	y	37:09	0.92	5.17		-	-	*			
13C-PCB-155	1.76e+07	1.30	y	34:11	0.86	1890					95.1	2.39e+06	1.83e+06
13C-PCB-111	2.52e+07	1.58	y	36:18	1.18	1960					98.3	3.22e+06	2.01e+06
13C-PCB-101	2.17e+07	1.59	y	34:38	-	15.5							
PCB-84	1.21e+06	1.54	y	34:18	0.59	119		-	-	*			Co-elute PCB 92
PCB-92	1.21e+06	1.54	y	34:18	0.59	119		-	-	*			Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.58	*		590	740	1.68			
PCB-90	3.09e+06	1.54	y	34:39	0.68	267		-	-	*			Co-elute PCB 101
PCB-101	3.09e+06	1.54	y	34:39	0.68	267		-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.76	*		590	740	1.30			
PCB-99	1.52e+06	1.57	y	34:59	0.72	124		-	-	*			
PCB-119	1.25e+05	1.39	y	35:25	0.81	8.99		-	-	*			
PCB-83	1.47e+05	1.48	y	35:33	0.68	12.6		-	-	*			Co-elute PCB 112
PCB-112	1.47e+05	1.48	y	35:33	0.68	12.6		-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.80	*		590	740	1.23			
PCB-97	8.89e+05	1.62	y	35:54	0.71	73.0		-	-	*			
PCB-86	*	*	n	NotFnd	0.63	*		590	740	1.56			
PCB-125	1.37e+06	1.58	y	36:10	0.74	108		-	-	*			Co-elute PCB 87/117
PCB-87	1.37e+06	1.58	y	36:10	0.74	108		-	-	*			Co-elute PCB 125/117
PCB-117	1.37e+06	1.58	y	36:10	0.74	108		-	-	*			Co-elute PCB 125/87
PCB-111	6.33e+04	1.48	y	36:19	0.98	3.75	J	-	-	*			Co-elute PCB 115
PCB-115	6.33e+04	1.48	y	36:19	0.98	3.75	J	-	-	*			Co-elute PCB 111
PCB-85	5.63e+05	1.60	y	36:25	0.67	48.9		-	-	*			Co-elute PCB 116
PCB-116	5.63e+05	1.60	y	36:25	0.67	48.9		-	-	*			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.83	*		590	740	1.19			
PCB-110	4.72e+06	1.58	y	36:47	0.91	302		-	-	*			
PCB-82	2.73e+05	1.54	y	37:22	0.51	31.5		-	-	*			
PCB-124	2.70e+05	1.61	y	38:03	1.10	14.3		-	-	*			
PCB-108	4.59e+05	1.77	y	38:12	1.26	21.3		-	-	*			Co-elute PCB 107
PCB-107	4.59e+05	1.77	y	38:12	1.26	21.3		-	-	*			Co-elute PCB 108
PCB-123	9.82e+04	1.37	y	38:22	1.35	4.37		-	-	*			
13C-PCB-123	3.31e+07	1.61	y	38:20	1.45	1980					99.6	4.45e+06	2.73e+06
PCB-118	5.82e+06	1.61	y	38:31	1.17	271		-	-	*			Co-elute PCB 106
PCB-106	5.82e+06	1.61	y	38:31	1.17	271		-	-	*			Co-elute PCB 118
13C-PCB-118	3.66e+07	1.64	y	38:30	1.55	2050					103	4.27e+06	2.59e+06
PCB-114	1.44e+05	1.50	y	39:08	1.18	7.17		-	-	*			
13C-PCB-114	3.40e+07	1.63	y	39:08	1.50	1970					99.1	4.34e+06	2.64e+06
PCB-122	7.97e+04	1.46	y	39:16	1.24	3.74	J	-	-	*			
PCB-105	2.36e+06	1.57	y	39:57	1.20	119		-	-	*			
13C-PCB-105	3.28e+07	1.58	y	39:55	1.50	1900					95.4	3.68e+06	2.33e+06

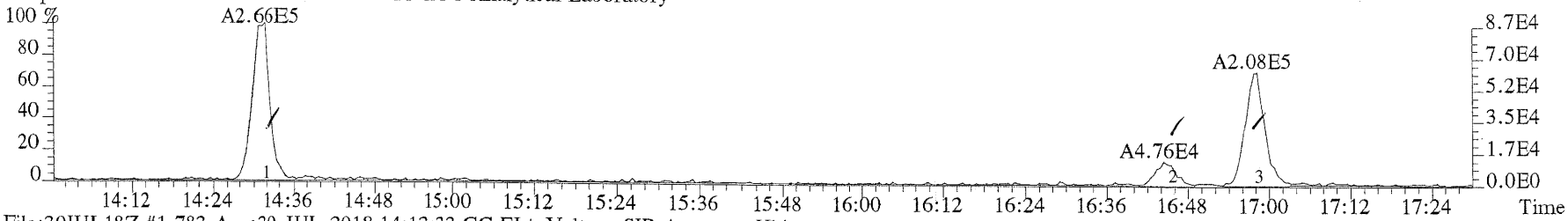
PCB-127	*	*	n	NotFnd	1.10	*		1030	1880	1.96			
PCB-126	5.78e+04	1.57	y	42:05	1.22	2.83	J	-	-	*			
13C-PCB-126	3.34e+07	1.61	y	42:05	1.38	2100					106	3.45e+06	2.12e+06
PCB-151	4.93e+05	1.27	y	37:45	0.82	47.8		-	-	*			
PCB-135	3.95e+05	1.25	y	37:59	0.78	40.2		-	-	*			
PCB-144	1.39e+05	1.35	y	38:05	0.96	11.4		-	-	*			
PCB-147	7.94e+04	1.12	y	38:13	0.89	7.08		-	-	*			
PCB-139	2.64e+06	1.25	y	38:26	0.95	221		-	-	*		Co-elute PCB 149	
PCB-149	2.64e+06	1.25	y	38:26	0.95	221		-	-	*		Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.91	*		420	442	0.963			
PCB-143	2.06e+05	1.19	y	39:03	0.89	18.3		-	-	*		Co-elute PCB 134	
PCB-134	2.06e+05	1.19	y	39:03	0.89	18.3		-	-	*		Co-elute PCB 143	
PCB-131	1.17e+05	1.37	y	39:19	0.89	10.4		-	-	*		Co-elute PCB 133	
PCB-133	1.17e+05	1.37	y	39:19	0.89	10.4		-	-	*		Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.75	*		420	442	1.17			
PCB-165	5.58e+05	1.32	y	39:42	1.05	42.4		-	-	*		Co-elute PCB 146	
PCB-146	5.58e+05	1.32	y	39:42	1.05	42.4		-	-	*		Co-elute PCB 165	
PCB-161	1.26e+06	1.29	y	39:57	1.00	99.9		-	-	*		Co-elute PCB 132	
PCB-132	1.26e+06	1.29	y	39:57	1.00	99.9		-	-	*		Co-elute PCB 161	
PCB-153	3.60e+06	1.27	y	40:05	1.01	283		-	-	*			
PCB-168	*	*	n	NotFnd	1.14	*		420	442	0.768			
PCB-141	6.39e+05	1.20	y	40:46	0.89	56.9		-	-	*			
PCB-137	2.40e+05	1.34	y	41:09	0.90	21.0		-	-	*			
PCB-130	2.75e+05	1.30	y	41:14	0.75	29.2		-	-	*			
PCB-138	4.81e+06	1.28	y	41:36	1.15	331		-	-	*		Co-elute PCB 163/164	
PCB-163	4.81e+06	1.28	y	41:36	1.15	331		-	-	*		Co-elute PCB 138/164	
PCB-164	4.81e+06	1.28	y	41:36	1.15	331		-	-	*		Co-elute PCB 138/163	
PCB-158	6.63e+05	1.18	y	41:49	1.16	45.3		-	-	*		Co-elute PCB 160	
PCB-160	6.63e+05	1.18	y	41:49	1.16	45.3		-	-	*		Co-elute PCB 158	
PCB-129	2.13e+05	1.35	y	42:02	0.75	22.7		-	-	*			
PCB-166	3.55e+04	1.28	y	42:30	1.07	2.62	J	-	-	*			
PCB-159	3.83e+04	1.33	y	42:50	1.16	2.62	J	-	-	*			
PCB-128	8.58e+05	1.23	y	43:03	0.97	70.3		-	-	*		Co-elute PCB 162	
PCB-162	8.58e+05	1.23	y	43:03	0.97	70.3		-	-	*		Co-elute PCB 128	
PCB-167	2.67e+05	1.37	y	43:26	1.06	20.2		-	-	*			
13C-PCB-167	2.48e+07	1.29	y	43:26	1.15	1880					94.4	2.71e+06	2.08e+06
PCB-156	6.28e+05	1.31	y	44:40	1.12	44.5		-	-	*			
13C-PCB-156	2.52e+07	1.28	y	44:38	1.10	1990					99.7	2.81e+06	2.17e+06
PCB-157	1.70e+05	1.27	y	44:55	1.13	11.8		-	-	*			
13C-PCB-157	2.55e+07	1.29	y	44:55	1.15	1930					97.1	2.62e+06	2.04e+06
PCB-169	*	*	n	NotFnd	1.09	*		420	442	0.767			
13C-PCB-169	2.49e+07	1.30	y	46:47	1.08	2000					101	2.89e+06	2.25e+06

FAL ID: 11719-001-0001-SA Filename: 30JUL18Z Sam:5 Acquired: 30-JUL-18 14:13:33 ICal: DAILY209FAL4-7-30-18
Client ID: LDW-Y1-IN-ENR-CA-CORE ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 5.020

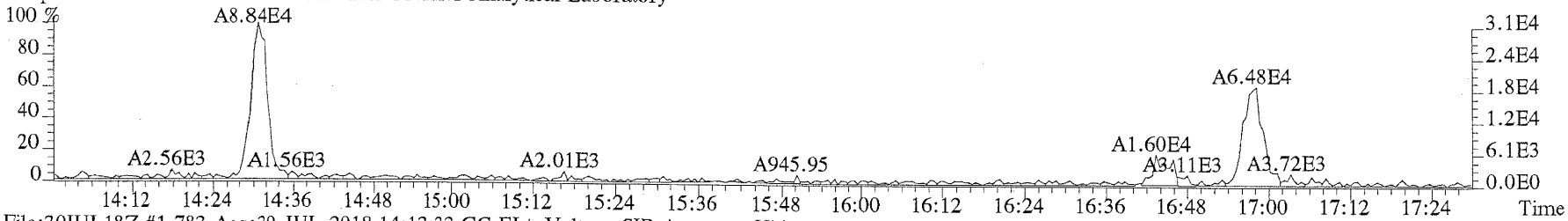
PCB-188	*	*	n	NotFnd	1.14	*		468	268	0.748			
13C-PCB-188	1.91e+07	1.10	y	39:41	0.92	1810					90.9	2.28e+06	2.01e+06
PCB-184	*	*	n	NotFnd	1.18	*		468	268	0.690			
PCB-179	2.64e+05	1.13	y	40:51	1.10	25.5		-	-	*			
PCB-176	8.54e+04	1.15	y	41:18	1.07	8.40		-	-	*			
PCB-186	*	*	n	NotFnd	1.10	*		468	268	0.740			
PCB-178	9.82e+04	0.96	y	42:20	0.79	13.1		-	-	*			
PCB-175	2.23e+04	1.01	y	42:42	0.83	2.83	J	-	-	*			
PCB-187	6.38e+05	1.05	y	42:50	0.91	73.9		-	-	*		Co-elute PCB 182	
PCB-182	6.38e+05	1.05	y	42:50	0.91	73.9		-	-	*		Co-elute PCB 187	
PCB-183	3.10e+05	1.11	y	43:08	0.88	37.1		-	-	*			
PCB-185	5.30e+04	1.14	y	43:46	0.85	6.61		-	-	*			
PCB-174	4.36e+05	1.07	y	44:06	0.82	56.0		-	-	*			
PCB-181	*	*	n	NotFnd	0.85	*		468	268	0.955			
PCB-177	3.05e+05	1.03	y	44:22	0.76	42.3		-	-	*			
PCB-171	1.46e+05	1.01	y	44:38	0.81	19.2		-	-	*			
PCB-173	*	*	n	NotFnd	0.74	*		468	268	1.10			
PCB-172	8.88e+04	0.94	y	45:28	0.73	12.9		-	-	*			
PCB-192	*	*	n	NotFnd	1.06	*		468	268	0.770			
PCB-180	1.16e+06	1.05	y	45:48	1.02	120		-	-	*			
PCB-193	8.37e+04	1.18	y	45:58	1.10	8.06		-	-	*			
PCB-191	2.95e+04	1.08	y	46:11	1.01	3.10	J	-	-	*			
PCB-170	5.04e+05	1.08	y	47:05	0.75	71.4		-	-	*			
PCB-190	1.55e+05	0.95	y	47:15	0.98	16.7		-	-	*			
PCB-189	3.45e+04	0.94	y	48:27	1.12	3.30	J	-	-	*			
13C-PCB-189	1.85e+07	1.09	y	48:26	0.82	1960					98.6	2.43e+06	2.29e+06
PCB-202	5.26e+04	0.88	y	44:48	1.01	8.66		-	-	*			
PCB-201	3.38e+04	0.88	y	45:15	0.99	5.66		-	-	*			
PCB-204	*	*	n	NotFnd	0.96	*		156	224	0.741			
PCB-197	9.03e+03	1.00	y	45:41	1.06	1.42	J	-	-	*			
PCB-200	3.97e+04	0.82	y	46:25	0.98	6.71		-	-	*			
PCB-198	9.90e+03	0.96	y	47:36	0.72	2.29	J	-	-	*			
PCB-199	2.31e+05	0.95	y	47:41	0.78	49.4		-	-	*			
PCB-203	2.53e+05	1.01	y	47:56	0.82	51.2		-	-	*		Co-elute PCB 196	
PCB-196	2.53e+05	1.01	y	47:56	0.82	51.2		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.20e+07	0.91	y	44:47	0.59	1780					89.2	1.28e+06	1.38e+06
13C-PCB-178	1.45e+07	1.11	y	42:20	0.65	1930					97.1	1.55e+06	1.37e+06
13C-PCB-138	2.29e+07	1.32	y	41:34	-	15.6							
PCB-195	1.59e+05	0.87	y	49:02	0.79	12.8		-	-	*			
PCB-194	4.96e+05	0.89	y	49:52	0.85	36.8		-	-	*			
PCB-205	3.16e+04	0.84	y	50:05	1.15	1.74	J	-	-	*			
13C-PCB-205	3.15e+07	0.92	y	50:05	1.30	1690					85.0	4.73e+06	5.25e+06
PCB-208	9.50e+04	1.14	y	49:08	1.05	7.56		-	-	*			
13C-PCB-208	2.38e+07	0.81	y	49:08	1.04	1600					80.4	3.49e+06	4.21e+06
PCB-207	3.83e+04	1.50	y	49:26	1.07	3.34	J	-	-	*			
PCB-206	1.83e+05	1.41	y	51:18	1.04	18.3		-	-	*			
13C-PCB-206	1.92e+07	0.81	y	51:17	0.86	1560					78.5	2.49e+06	3.13e+06
PCB-209	6.77e+04	1.27	y	52:29	1.10	5.64		-	-	*			
13C-PCB-209	2.17e+07	1.20	y	52:27	0.98	1550					78.1	3.53e+06	2.94e+06
13C-PCB-194	2.84e+07	0.93	y	49:51	-	17.9							

Analyst: _____ Date: 8/30/18

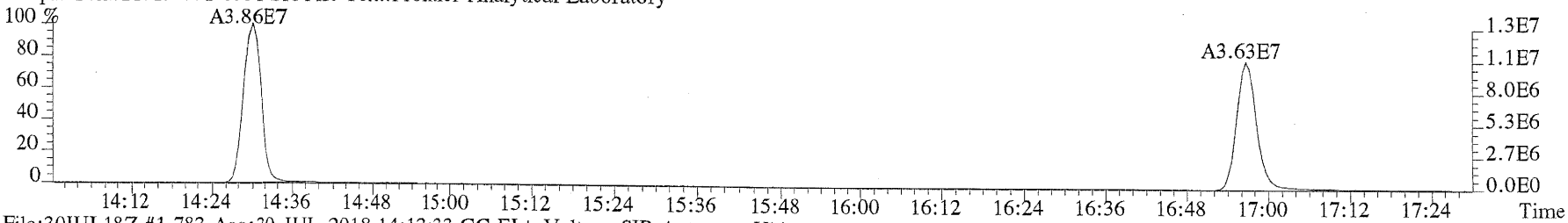
File:30JUL18Z #1-783 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



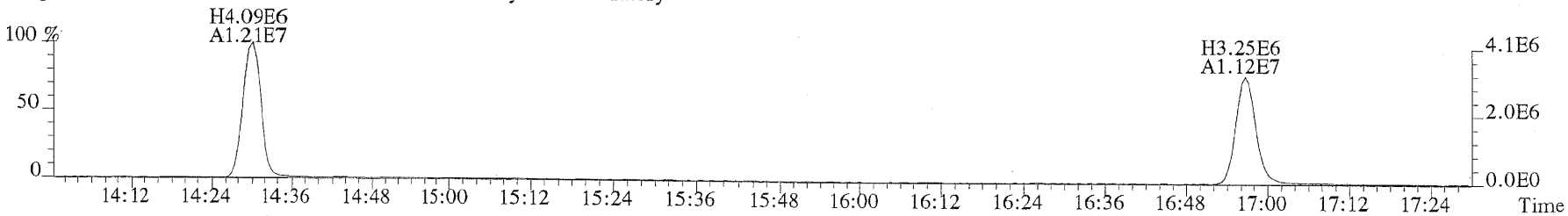
File:30JUL18Z #1-783 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



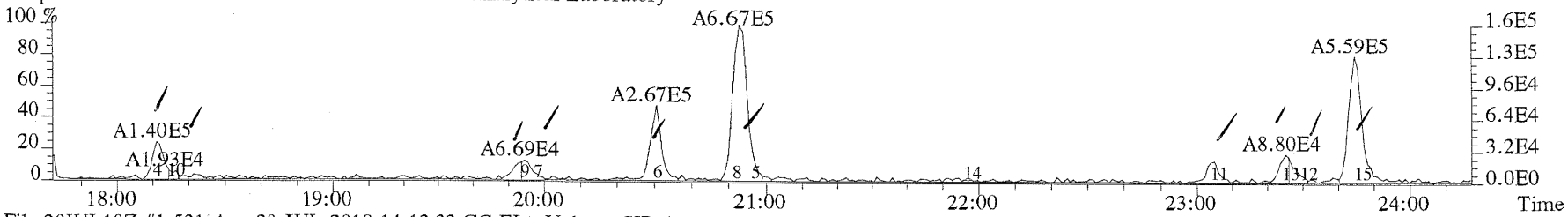
File:30JUL18Z #1-783 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



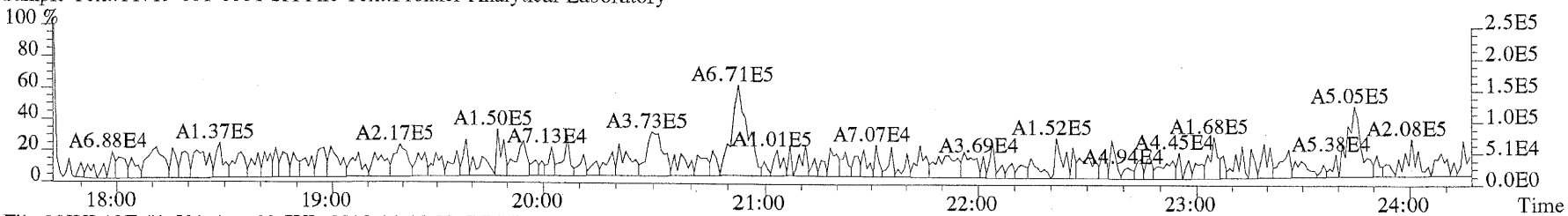
File:30JUL18Z #1-783 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



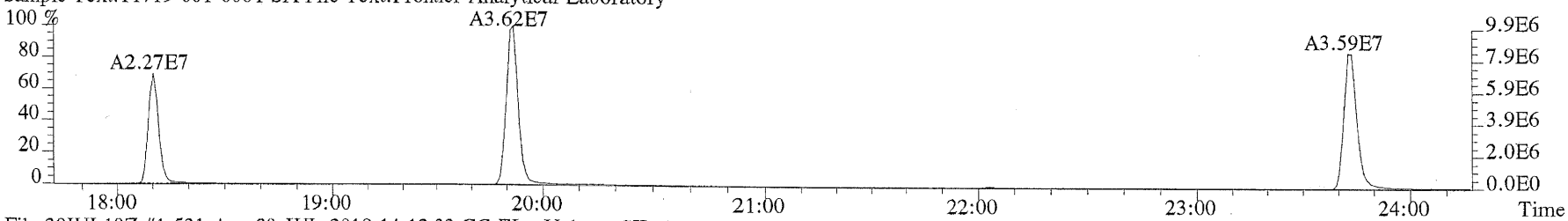
File:30JUL18Z #1-521 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



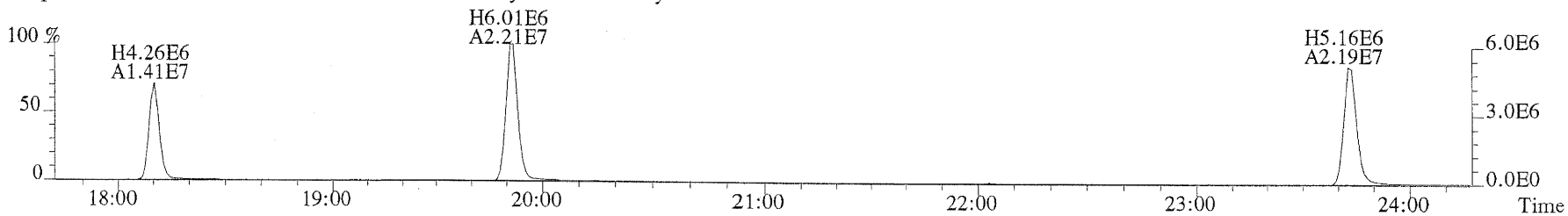
File:30JUL18Z #1-521 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



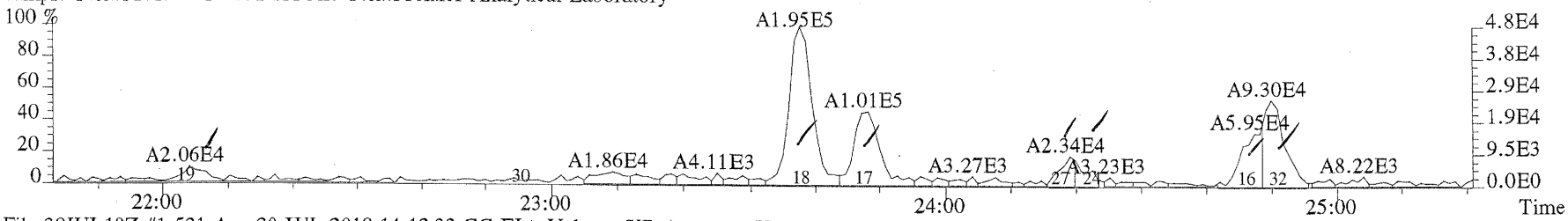
File:30JUL18Z #1-521 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



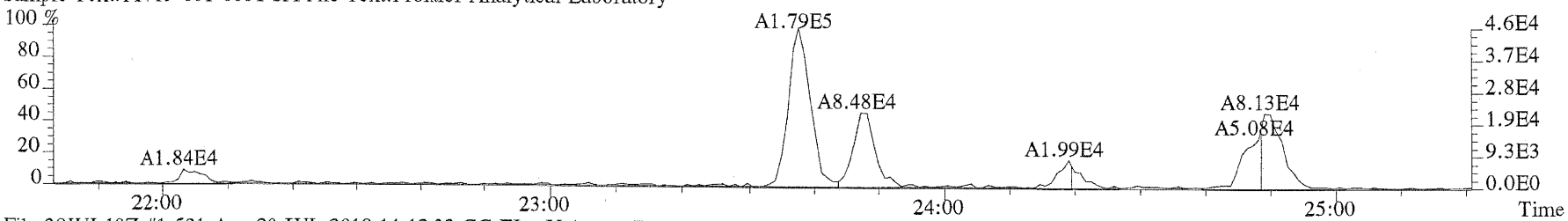
File:30JUL18Z #1-521 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



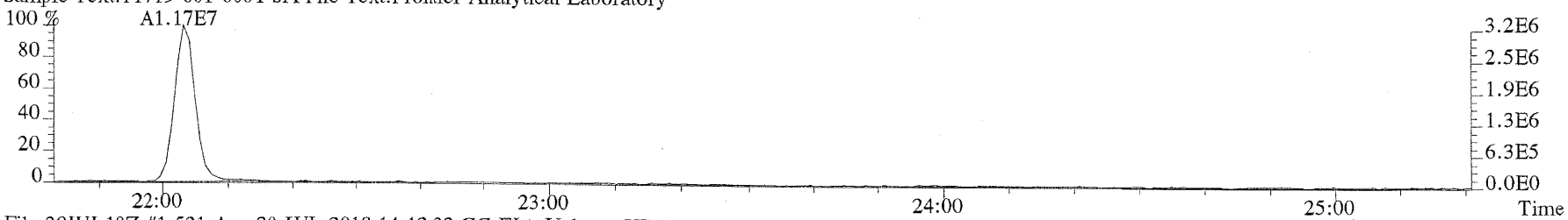
File:30JUL18Z #1-521 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



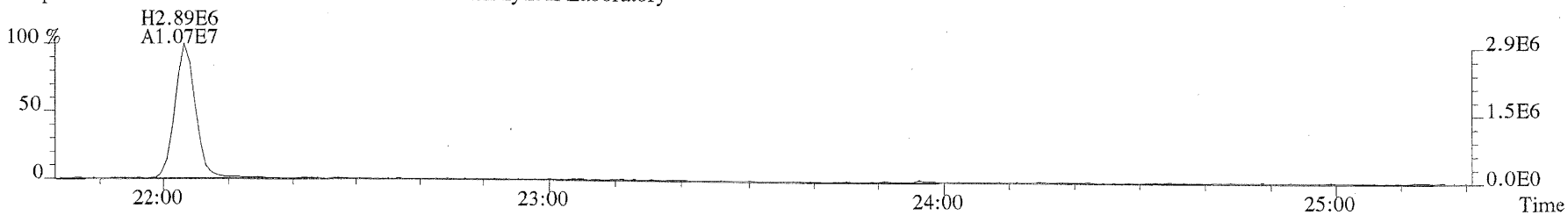
File:30JUL18Z #1-521 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



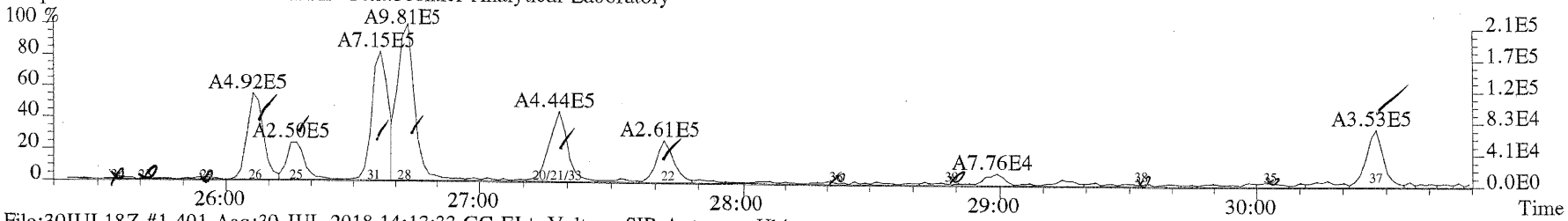
File:30JUL18Z #1-521 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



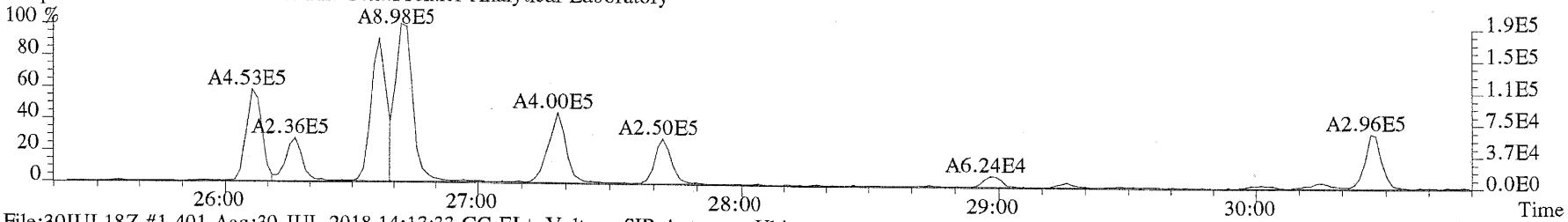
File:30JUL18Z #1-521 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



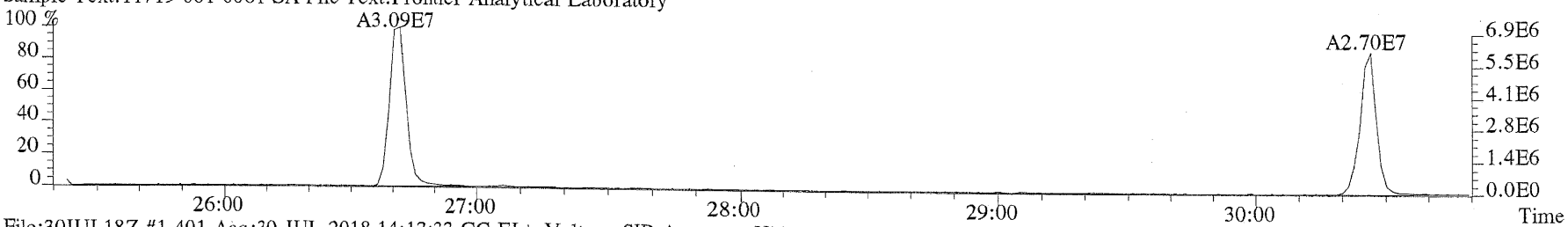
File:30JUL18Z #1-401 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



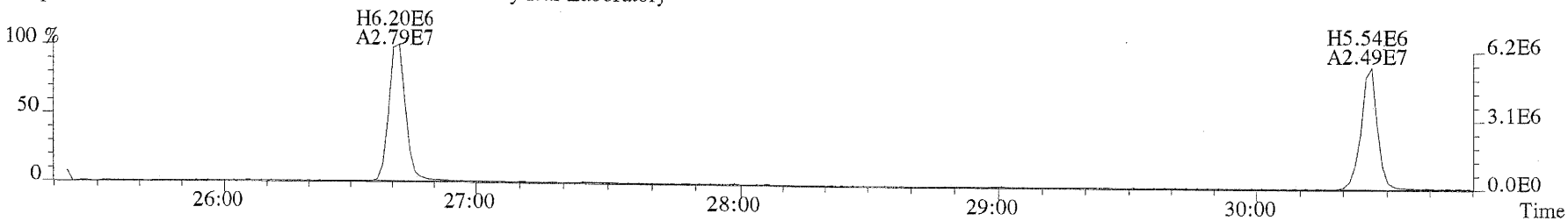
File:30JUL18Z #1-401 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



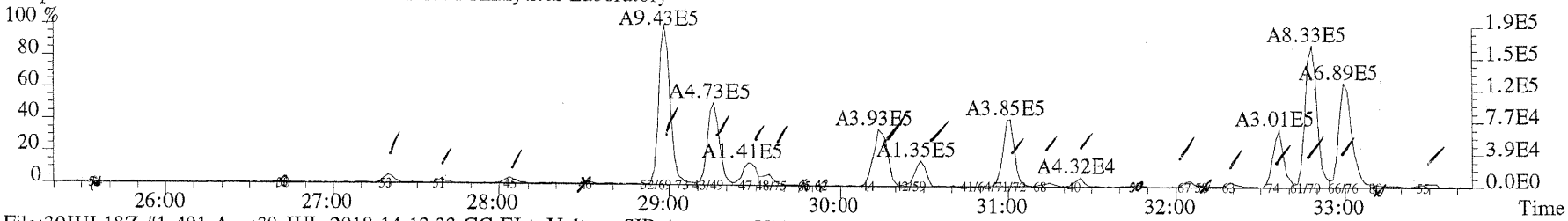
File:30JUL18Z #1-401 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



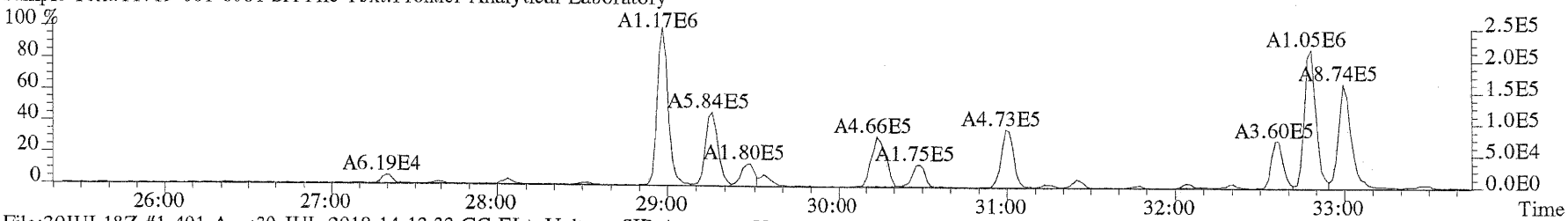
File:30JUL18Z #1-401 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



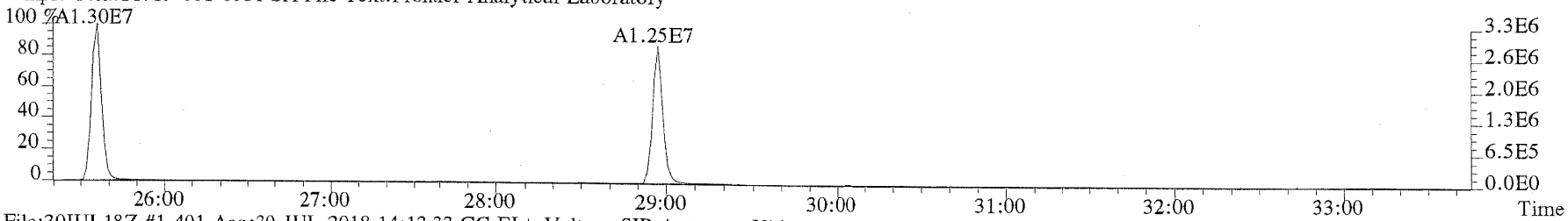
File:30JUL18Z #1-401 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



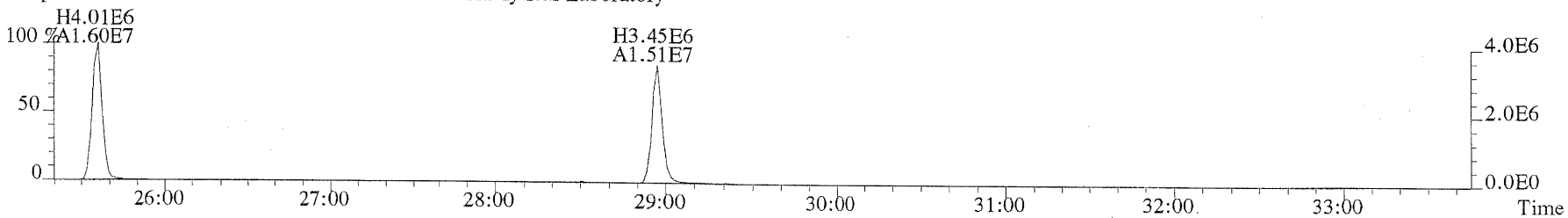
File:30JUL18Z #1-401 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



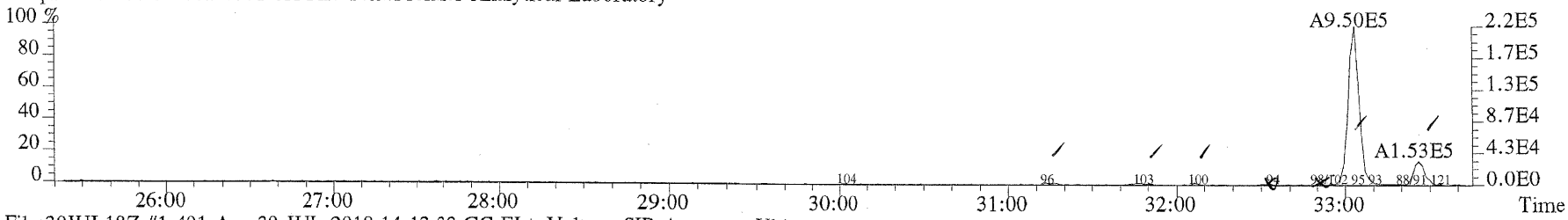
File:30JUL18Z #1-401 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



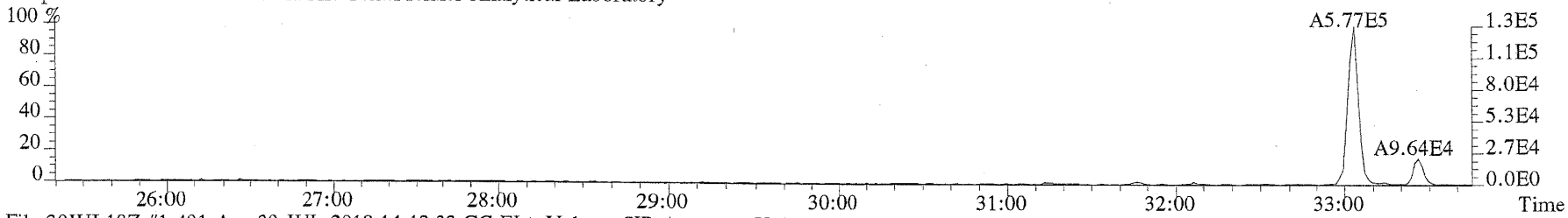
File:30JUL18Z #1-401 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



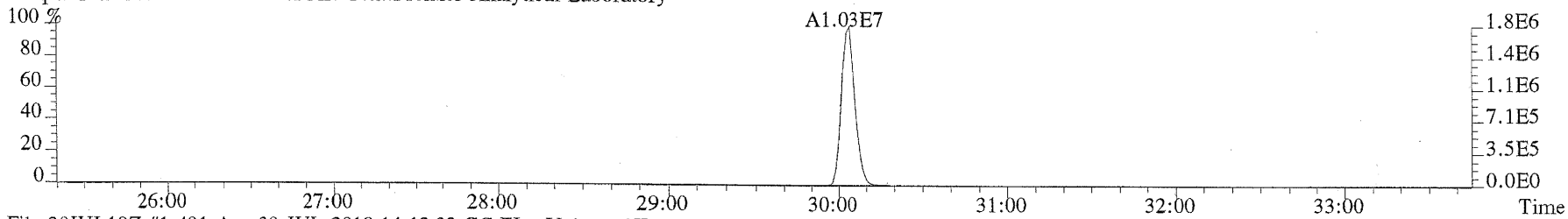
File:30JUL18Z #1-401 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



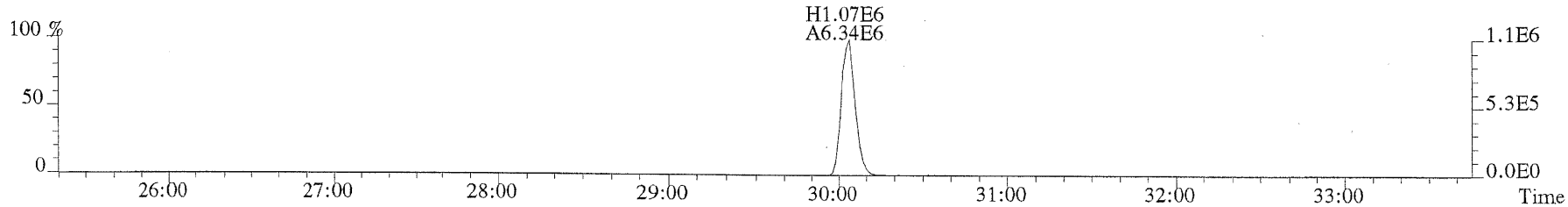
File:30JUL18Z #1-401 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



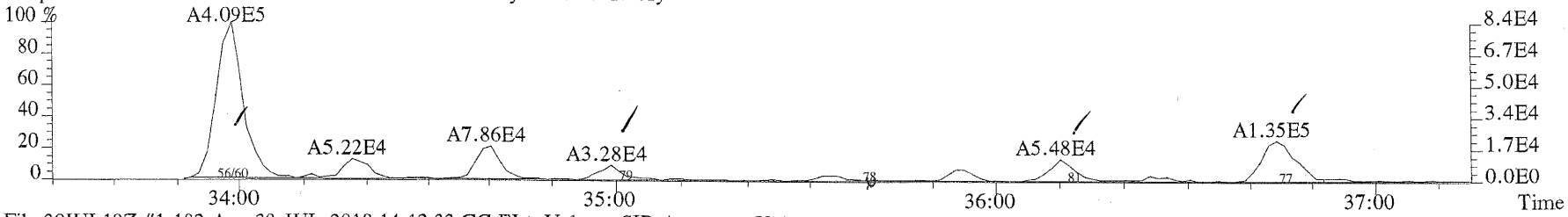
File:30JUL18Z #1-401 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



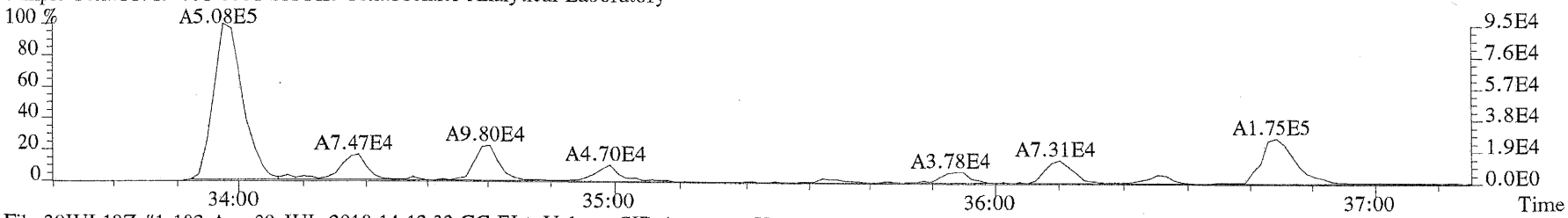
File:30JUL18Z #1-401 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



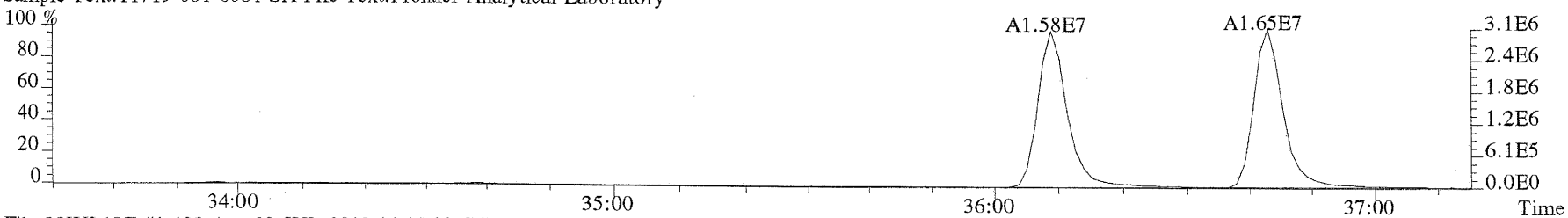
File:30JUL18Z #1-183 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



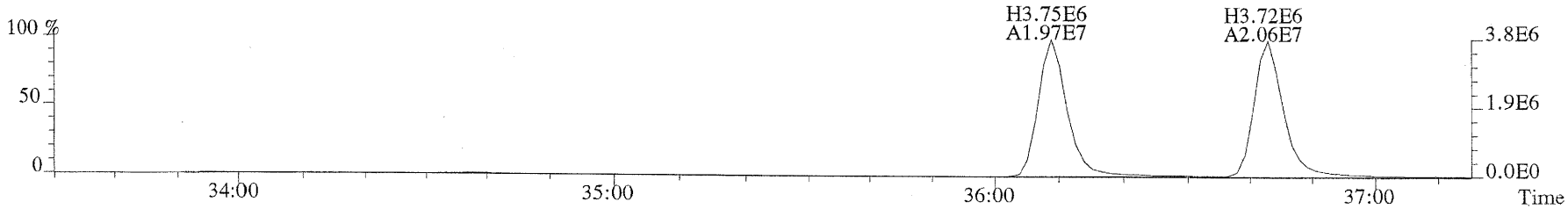
File:30JUL18Z #1-183 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



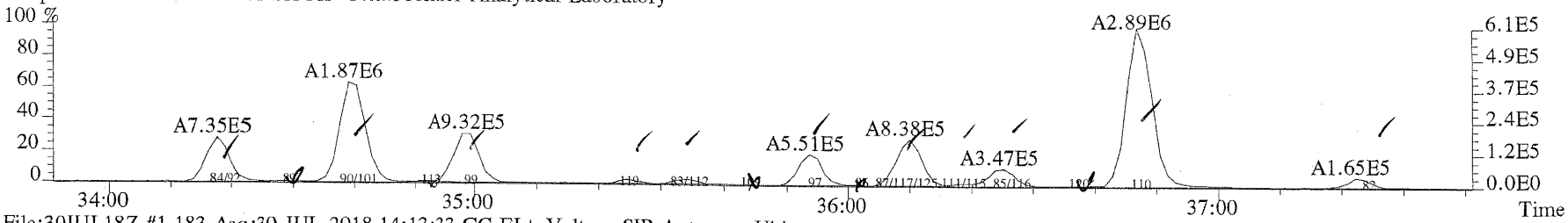
File:30JUL18Z #1-183 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



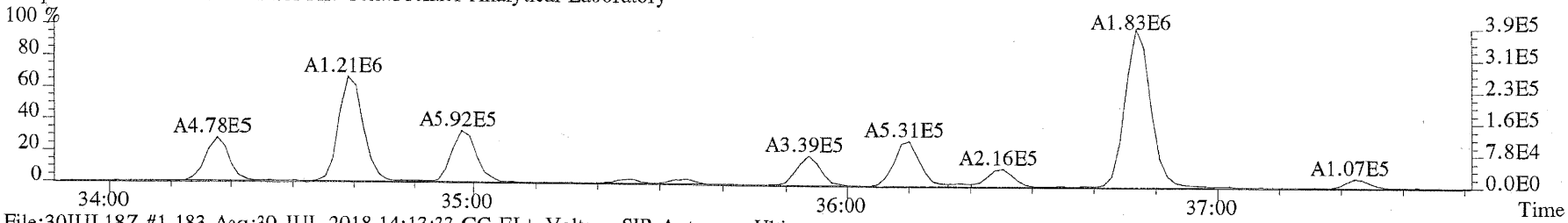
File:30JUL18Z #1-183 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



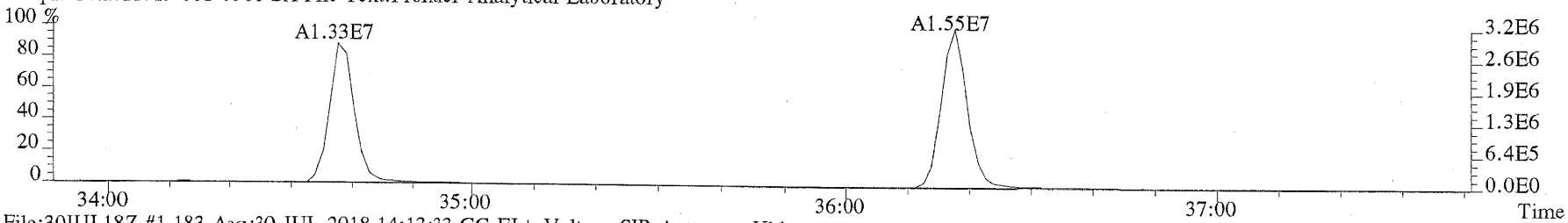
File:30JUL18Z #1-183 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



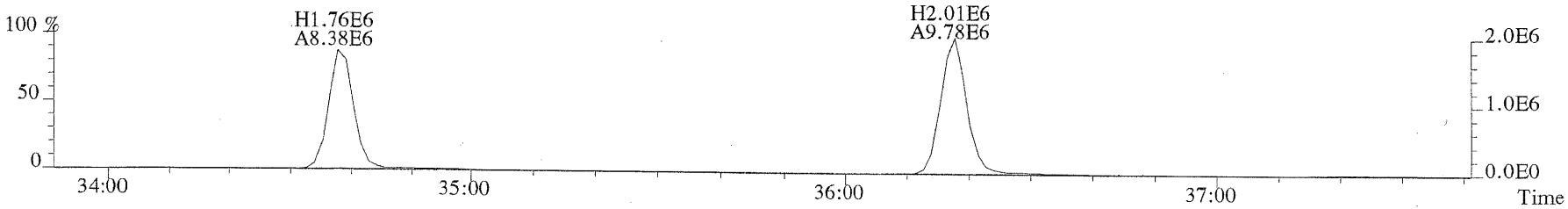
File:30JUL18Z #1-183 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



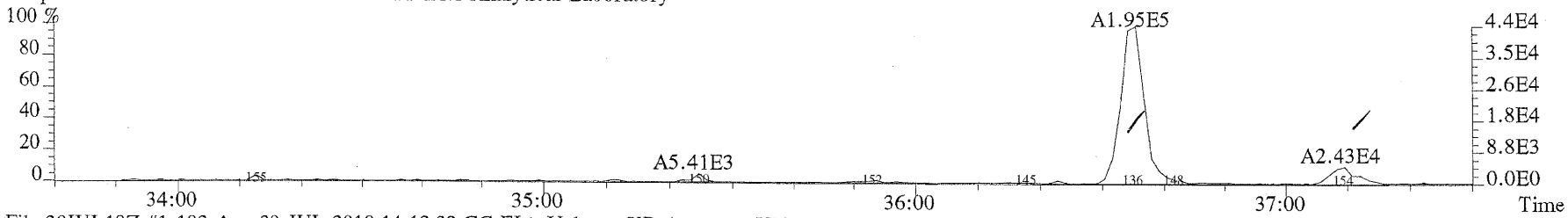
File:30JUL18Z #1-183 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



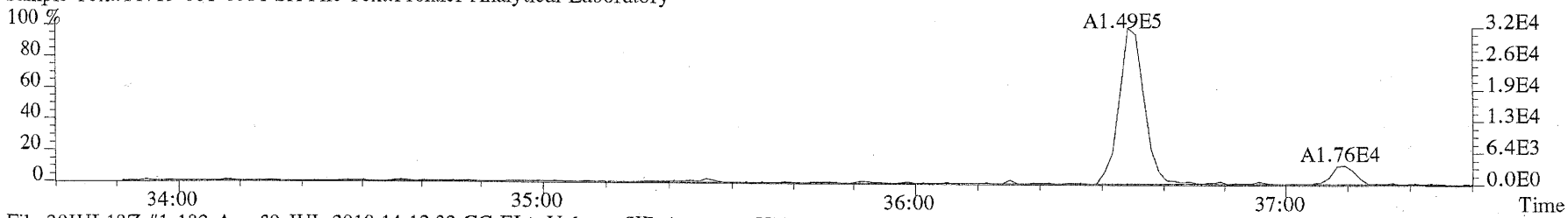
File:30JUL18Z #1-183 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



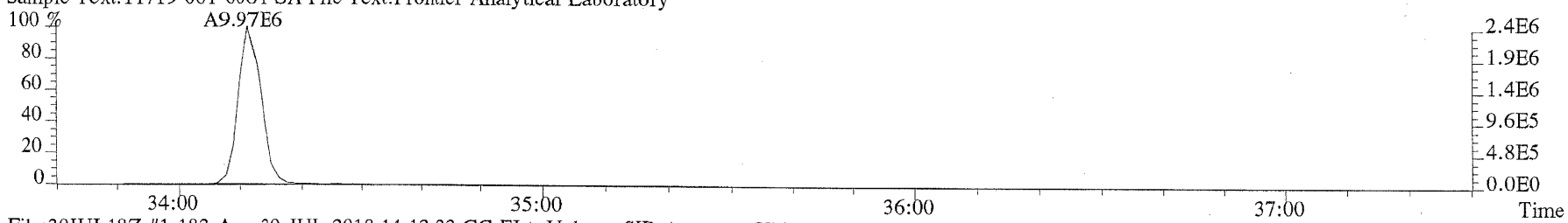
File:30JUL18Z #1-183 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



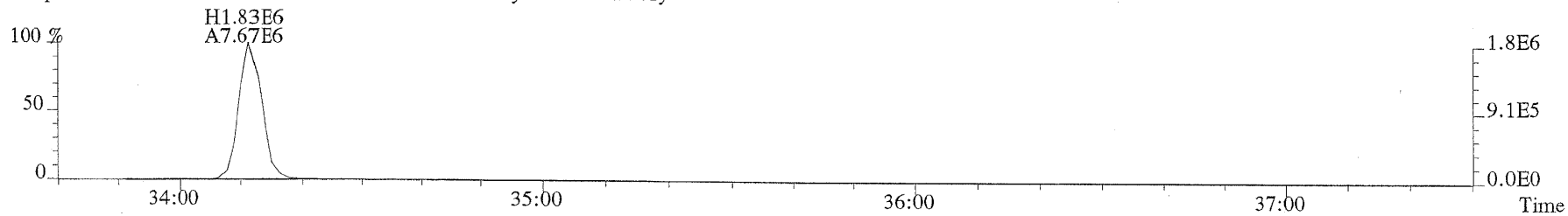
File:30JUL18Z #1-183 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



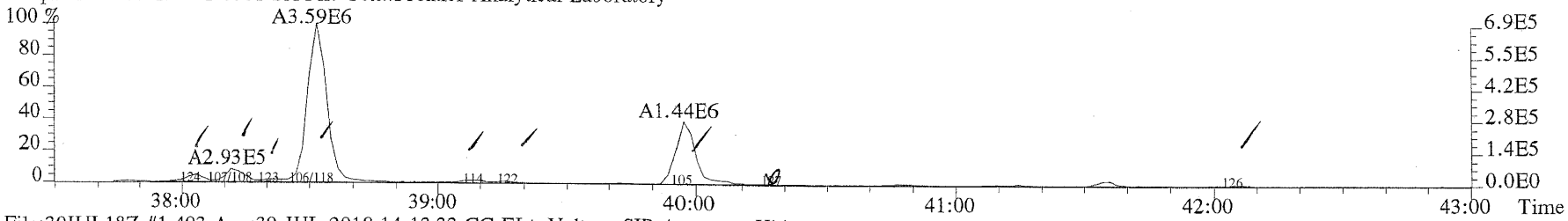
File:30JUL18Z #1-183 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



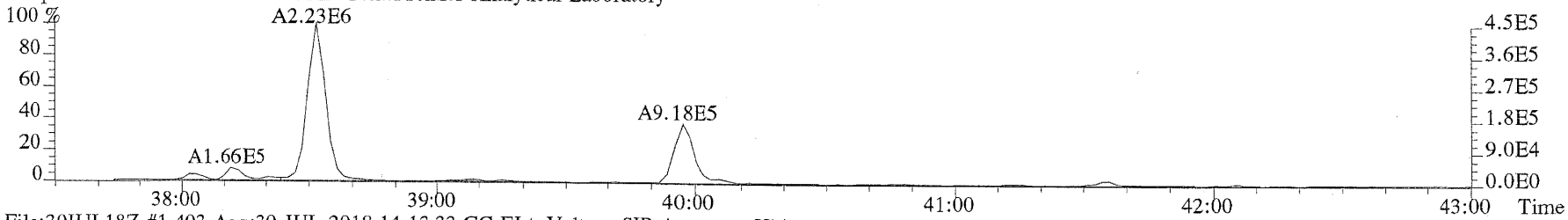
File:30JUL18Z #1-183 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



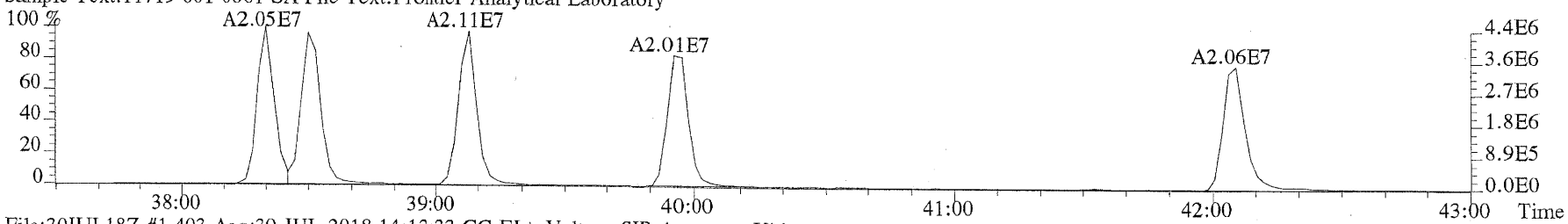
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



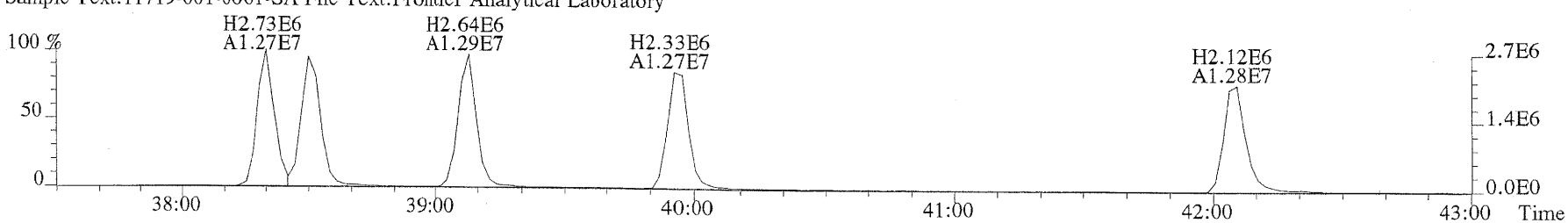
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



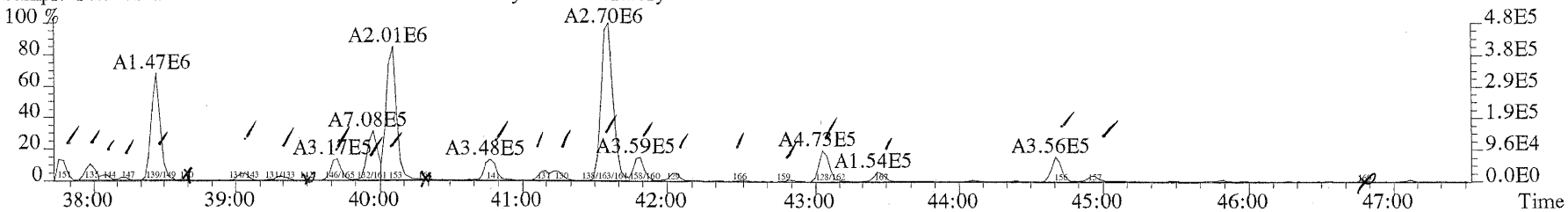
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



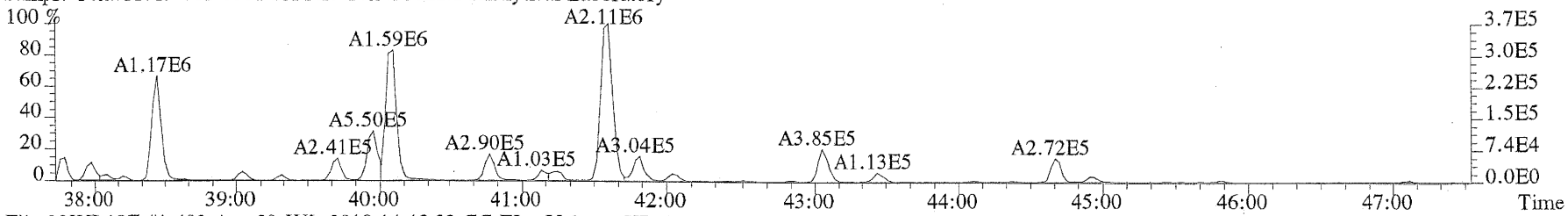
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



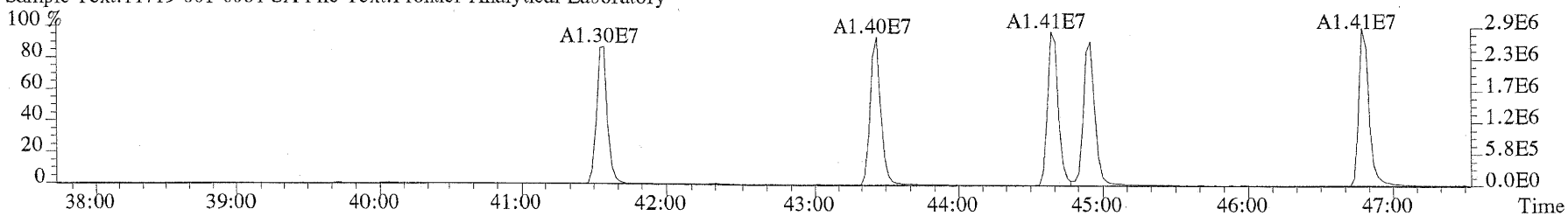
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



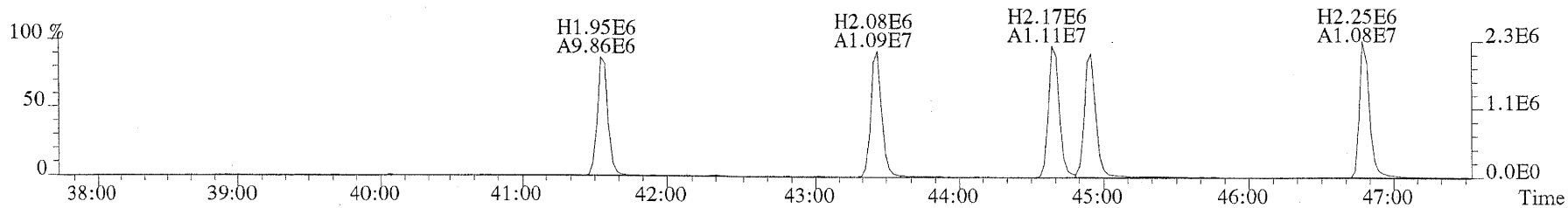
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



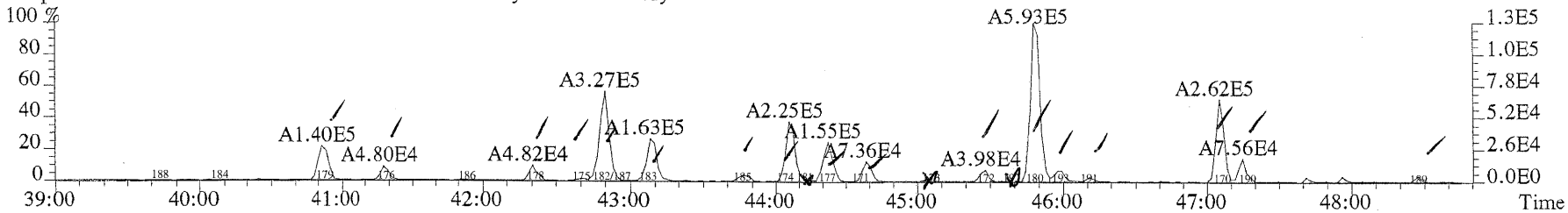
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



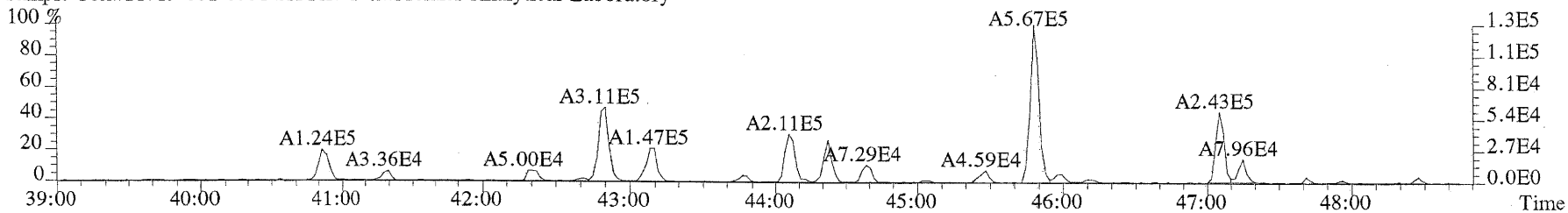
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



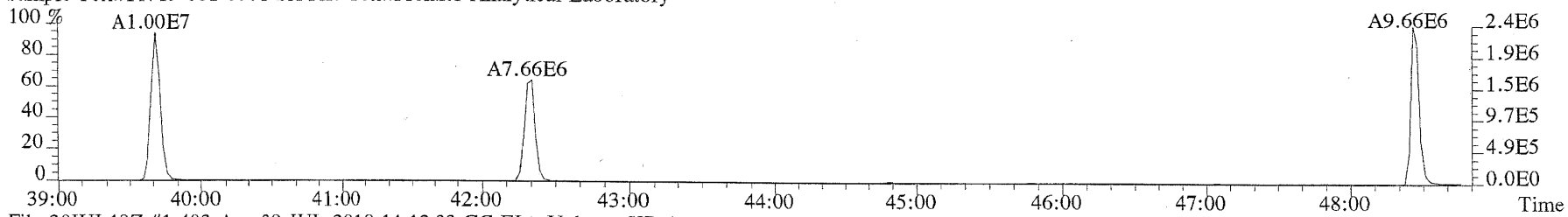
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



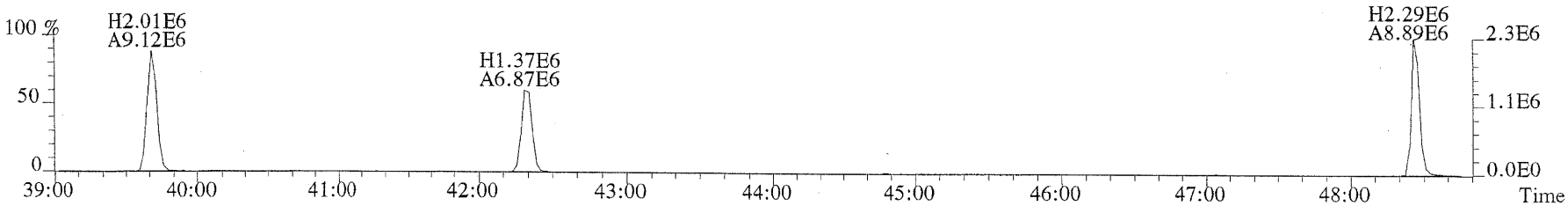
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



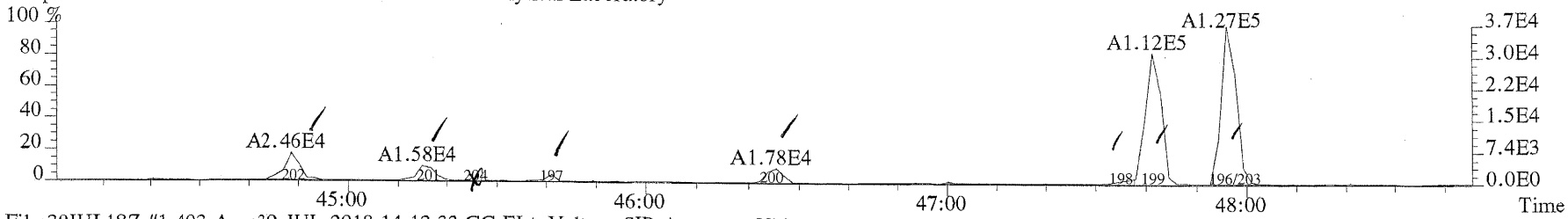
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



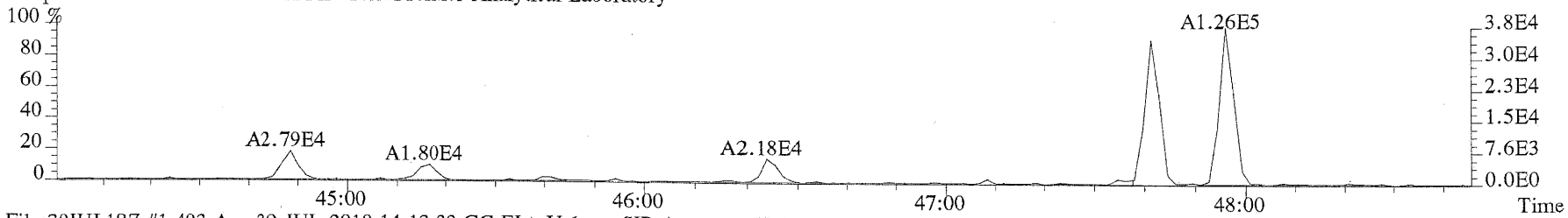
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



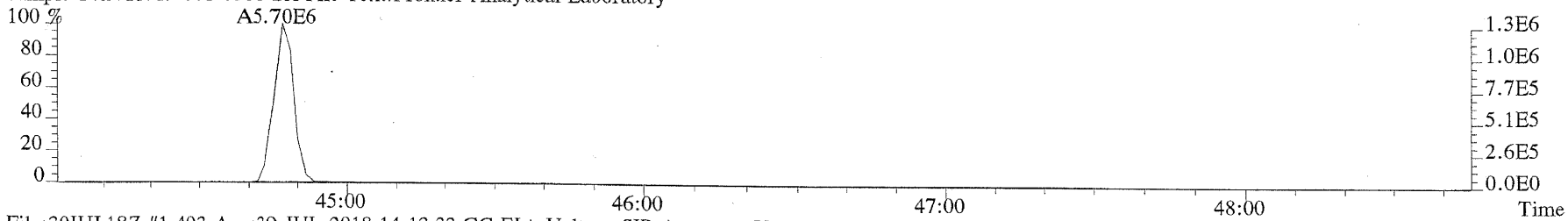
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



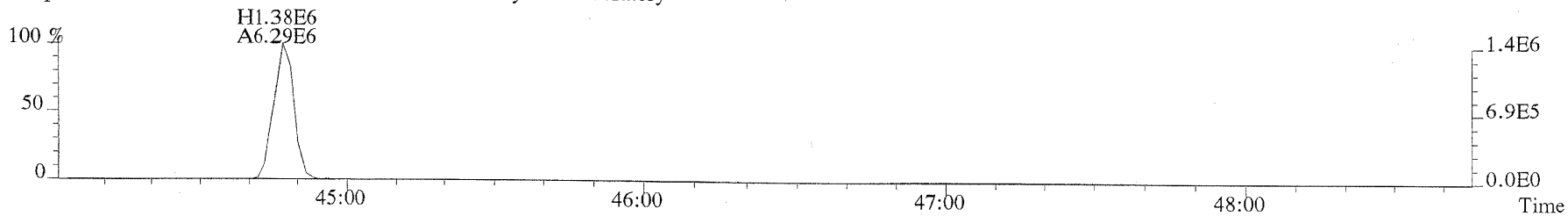
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



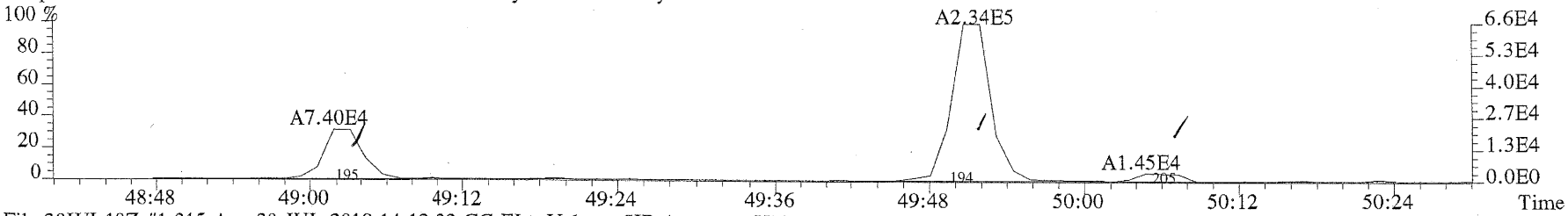
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



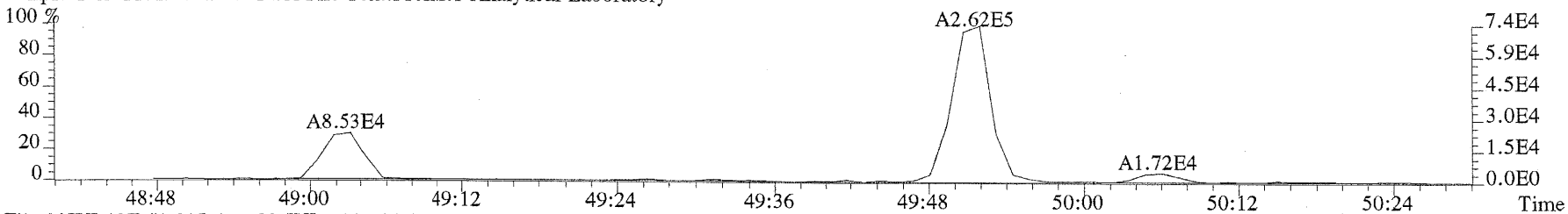
File:30JUL18Z #1-403 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



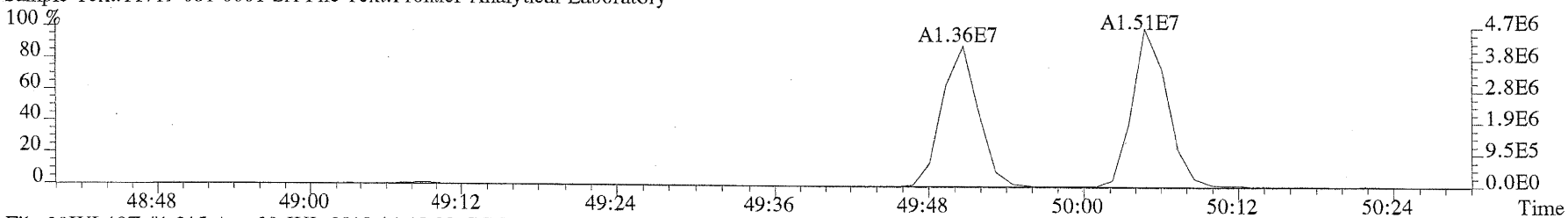
File:30JUL18Z #1-315 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



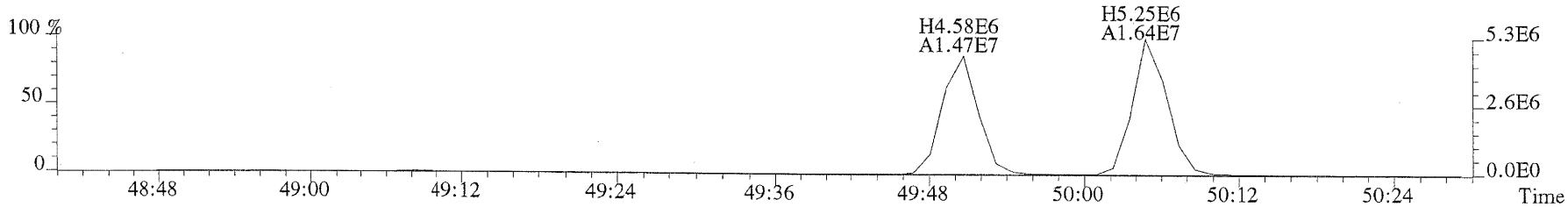
File:30JUL18Z #1-315 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



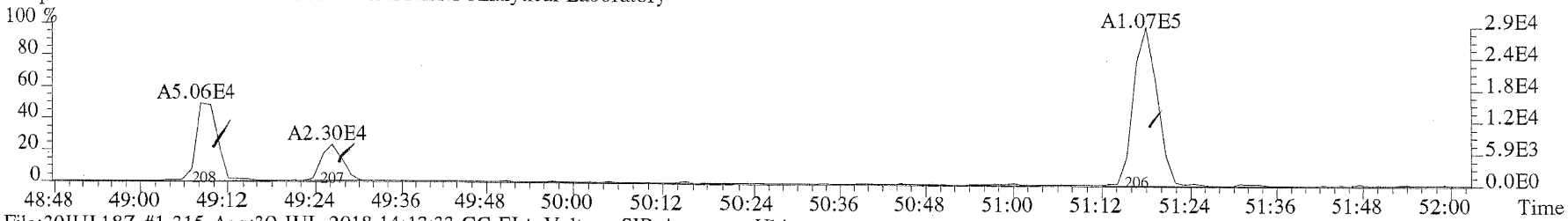
File:30JUL18Z #1-315 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



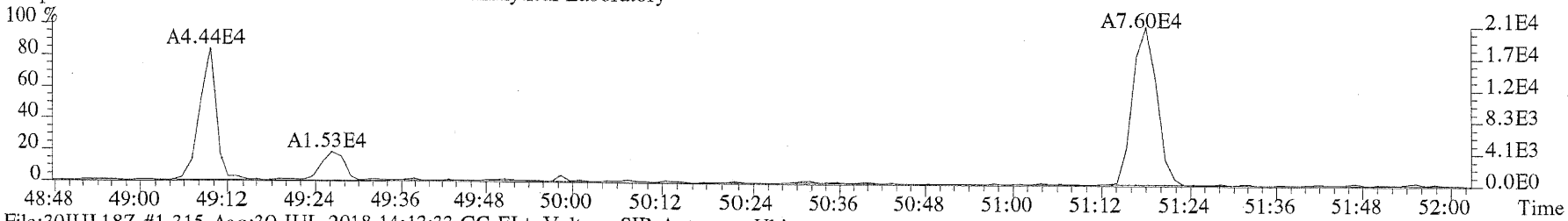
File:30JUL18Z #1-315 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



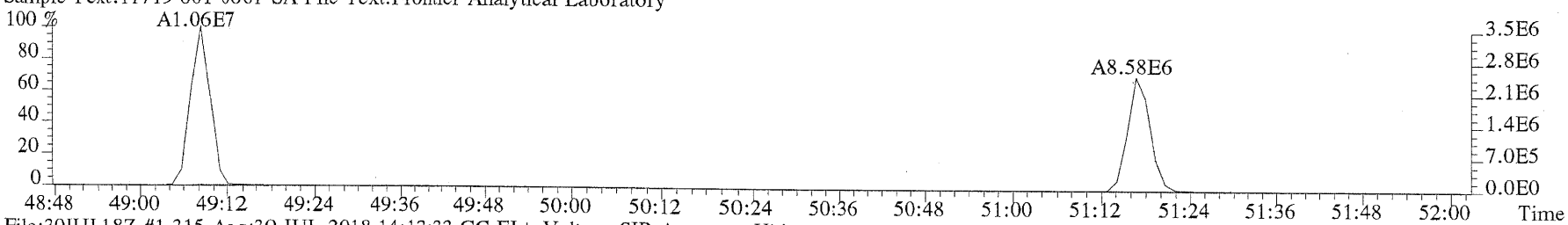
File:30JUL18Z #1-315 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



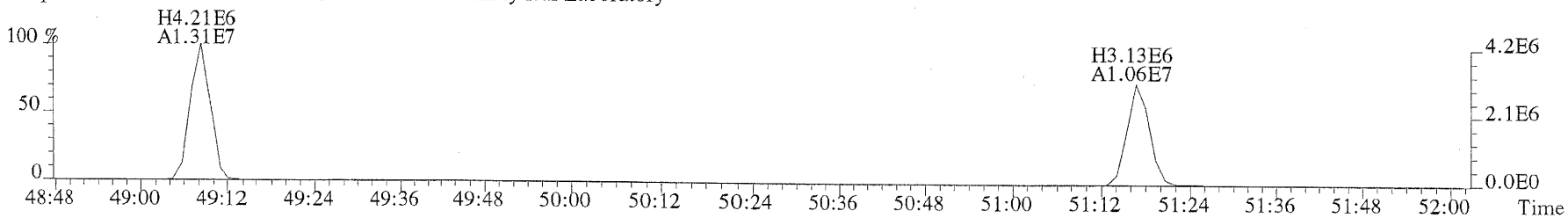
File:30JUL18Z #1-315 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



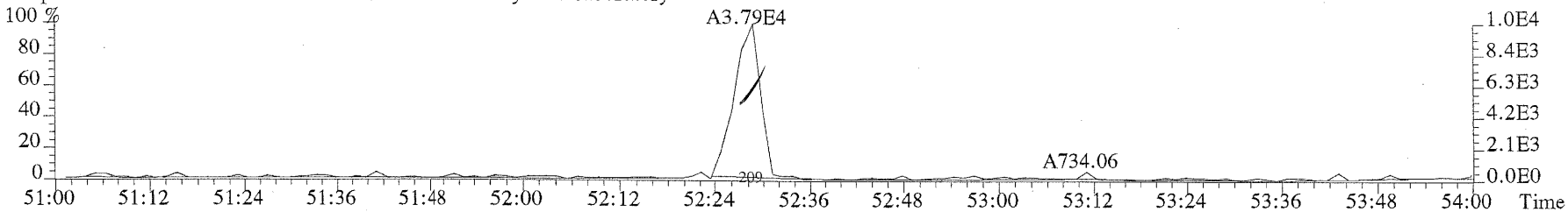
File:30JUL18Z #1-315 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



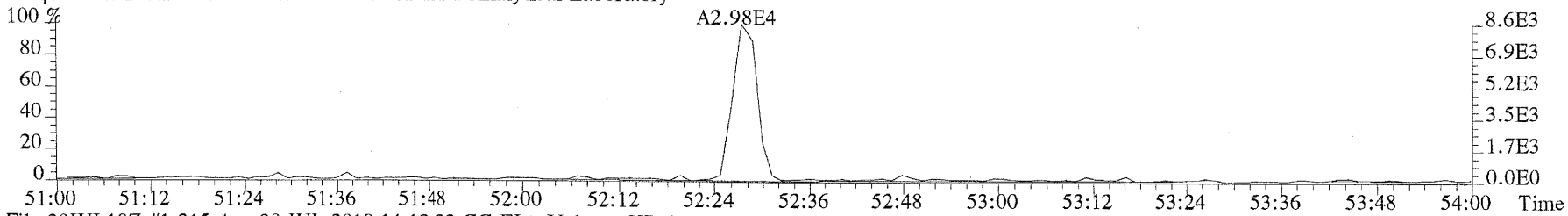
File:30JUL18Z #1-315 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



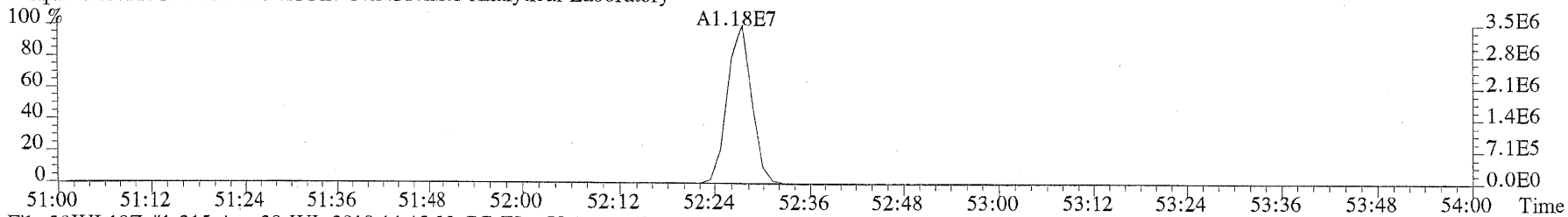
File:30JUL18Z #1-315 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



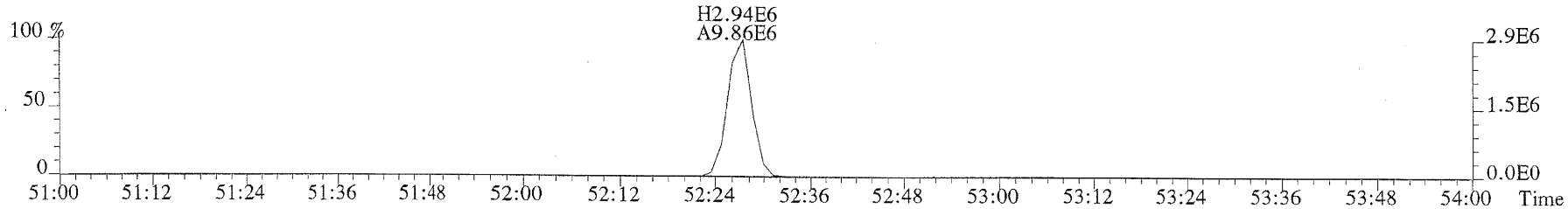
File:30JUL18Z #1-315 Acq:30-JUL-2018 14:13:33 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-001-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-315 Acq:30-JUL-2018 14:13:33 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:11719-001-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-315 Acq:30-JUL-2018 14:13:33 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:11719-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-002-0001-SA Filename: 30JUL18Z Sam:6 Acquired: 30-JUL-18 15:12:19 ICal: DAILY209FAL4-7-30-18
Client ID: LDW-Y1-IN-ENR-CB-CORE ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 5.010

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	6.14e+05	3.07 y	14:32	1.20	19.4		-	-	*			
13C-PCB-1	5.27e+07	3.23 y	14:30	0.92	1790					89.6	1.31e+07	4.10e+06
PCB-2	1.15e+05	3.15 y	16:44	1.08	4.21		-	-	*			
PCB-3	5.13e+05	2.97 y	16:58	1.19	18.0		-	-	*			
13C-PCB-3	4.81e+07	3.24 y	16:57	0.90	1680					83.9	1.13e+07	3.40e+06
PCB-4	4.09e+05	1.55 y	18:11	1.40	15.9		-	-	*			
PCB-10	8.27e+04	1.51 y	18:15	1.27	2.66	J	-	-	*			
13C-PCB-4	3.67e+07	1.63 y	18:10	0.68	1710					85.5	6.81e+06	4.20e+06
PCB-9	1.73e+05	1.67 y	19:53	1.40	5.04		-	-	*			
PCB-7	2.22e+05	1.51 y	19:54	1.49	6.03		-	-	*			
PCB-6	6.90e+05	1.43 y	20:31	1.40	20.1		-	-	*			
PCB-8	1.95e+06	1.46 y	20:53	1.37	57.8		-	-	*			
PCB-5	1.52e+05	1.48 y	20:56	1.45	4.27		-	-	*			
PCB-14	*	* n	NotFnd	1.34	*		540	1120	0.475			
PCB-11	2.48e+05	1.64 y	23:04	1.29	7.80		-	-	*			
PCB-13	1.65e+05	1.58 y	23:24	1.33	5.05		-	-	*			
PCB-12	3.56e+05	1.46 y	23:25	1.41	10.2		-	-	*			
PCB-15	1.61e+06	1.58 y	23:45	1.33	39.5		-	-	*			
13C-PCB-15	6.15e+07	1.65 y	23:44	1.00	1940					97.1	9.12e+06	5.57e+06
PCB-19	5.23e+04	1.10 y	22:04	1.21	3.64	J	-	-	*			
PCB-30	*	* n	NotFnd	1.67	*		566	401	0.475			
PCB-18	4.34e+05	1.09 y	23:38	1.17	31.1		-	-	*			
PCB-17	2.16e+05	1.14 y	23:48	1.28	14.1		-	-	*			
PCB-27	3.79e+04	1.01 y	24:18	1.57	2.03	J	-	-	*			
PCB-24	5.27e+04	1.08 y	24:20	1.72	2.58	J	-	-	*			
PCB-16	1.94e+05	0.93 y	24:49	1.40	11.6		-	-	*			
PCB-32	1.37e+05	1.16 y	24:50	1.46	7.84		-	-	*			
13C-PCB-19	2.38e+07	1.09 y	22:03	0.41	1800					90.4	3.16e+06	2.93e+06
13C-PCB-9	6.36e+07	1.62 y	19:51	-	17.4							
PCB-34	*	* n	NotFnd	1.28	*		456	423	0.411			
PCB-23	*	* n	NotFnd	1.27	*		456	423	0.414			
PCB-29	*	* n	NotFnd	1.33	*		456	423	0.397			
PCB-26	1.13e+06	1.14 y	26:07	1.26	31.5		-	-	*			
PCB-25	5.85e+05	1.08 y	26:17	1.59	12.9		-	-	*			
PCB-31	1.97e+06	1.04 y	26:36	1.29	53.5		-	-	*			
PCB-28	2.16e+06	1.06 y	26:42	1.56	48.5		-	-	*			
PCB-20	1.15e+06	1.14 y	27:17	1.33	30.0		-	-	*		Co-elute PCB 21/33	
PCB-21	1.15e+06	1.14 y	27:17	1.33	30.0		-	-	*		Co-elute PCB 20/33	
PCB-33	1.15e+06	1.14 y	27:17	1.33	30.0		-	-	*		Co-elute PCB 20/21	
PCB-22	7.09e+05	1.16 y	27:43	1.35	18.4		-	-	*			
PCB-36	*	* n	NotFnd	1.21	*		456	423	0.437			
PCB-39	*	* n	NotFnd	1.27	*		456	423	0.415			
PCB-38	*	* n	NotFnd	1.28	*		456	423	0.412			
PCB-35	*	* n	NotFnd	1.15	*		456	423	0.459			
PCB-37	9.73e+05	1.11 y	30:28	1.37	25.0		-	-	*			
13C-PCB-37	5.70e+07	1.07 y	30:27	1.82	1970					98.7	4.30e+06	4.00e+06

PCB-54	*	*	n	NotFnd	1.19	*		654	706	0.788			
PCB-50	*	*	n	NotFnd	0.91	*		654	706	1.04			
PCB-53	2.07e+05	0.80	y	27:20	0.92	14.9		-	-	*			
PCB-51	*	*	n	NotFnd	0.93	*		-	-	*			
PCB-45	2.05e+03	1.24	n	28:13	0.78	0.175		-	-	*			
PCB-46	5.05e+04	0.82	y	28:31	0.76	4.42		-	-	*			
PCB-52	4.34e+06	0.80	y	28:58	1.06	273		-	-	*	Co-elute PCB 69		
PCB-69	4.34e+06	0.80	y	28:58	1.06	273		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.26	*		654	706	0.746			
PCB-43	1.81e+06	0.82	y	29:15	0.88	136		-	-	*	Co-elute PCB 49		
PCB-49	1.81e+06	0.82	y	29:15	0.88	136		-	-	*	Co-elute PCB 43		
PCB-47	5.05e+05	0.82	y	29:28	1.14	29.3		-	-	*			
PCB-48	2.57e+05	0.87	y	29:33	1.10	15.4		-	-	*	Co-elute PCB 75		
PCB-75	2.57e+05	0.87	y	29:33	1.10	15.4		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.07	*		654	706	0.874			
PCB-62	*	*	n	NotFnd	1.19	*		654	706	0.790			
PCB-44	1.77e+06	0.78	y	30:14	0.81	146		-	-	*			
PCB-42	5.11e+05	0.86	y	30:30	1.08	31.4		-	-	*	Co-elute PCB 59		
PCB-59	5.11e+05	0.86	y	30:30	1.08	31.4		-	-	*	Co-elute PCB 42		
PCB-72	1.60e+06	0.79	y	31:09	1.15	92.2		-	-	*	Co-elute PCB 41/71/64		
PCB-41	1.60e+06	0.79	y	31:09	1.15	92.2		-	-	*	Co-elute PCB 72/71/64		
PCB-71	1.60e+06	0.79	y	31:09	1.15	92.2		-	-	*	Co-elute PCB 72/41/64		
PCB-64	1.60e+06	0.79	y	31:09	1.15	92.2		-	-	*	Co-elute PCB 72/41/71		
PCB-68	3.76e+04	0.77	y	31:26	1.26	1.98	J	-	-	*			
PCB-40	1.26e+05	0.80	y	31:35	0.71	11.8		-	-	*			
PCB-57	3.20e+04	0.83	y	31:50	1.11	1.91	J	-	-	*			
PCB-67	8.44e+04	0.73	y	32:06	1.10	5.10		-	-	*			
PCB-58	*	*	n	NotFnd	1.16	*		654	706	0.812			
PCB-63	8.98e+04	0.77	y	32:22	1.17	5.10		-	-	*			
PCB-74	1.17e+06	0.75	y	32:38	1.21	64.3		-	-	*			
PCB-61	3.41e+06	0.80	y	32:50	1.21	186		-	-	*	Co-elute PCB 70		
PCB-70	3.41e+06	0.80	y	32:50	1.21	186		-	-	*	Co-elute PCB 61		
PCB-76	2.39e+06	0.79	y	33:01	1.21	132		-	-	*	Co-elute PCB 66		
PCB-66	2.39e+06	0.79	y	33:01	1.21	132		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.28	*		654	706	0.733			
PCB-55	7.88e+04	0.76	y	33:28	1.20	4.37		-	-	*			
13C-PCB-54	3.00e+07	0.82	y	25:35	1.17	1610					80.8	3.26e+06	3.97e+06
PCB-104	*	*	n	NotFnd	1.32	*		456	426	0.987			
PCB-96	*	*	n	NotFnd	1.16	*		456	426	1.12			
PCB-103	4.05e+04	1.50	y	31:49	0.99	4.12		-	-	*			
PCB-100	2.64e+04	1.56	y	32:07	1.01	2.62	J	-	-	*			
PCB-94	*	*	n	NotFnd	0.85	*		456	426	1.53			
PCB-98	*	*	n	NotFnd	1.05	*		456	426	1.23	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.05	*		456	426	1.23	Co-elute PCB 98		
PCB-95	3.30e+06	1.63	y	33:05	0.90	367		-	-	*			
PCB-93	*	*	n	NotFnd	0.83	*		456	426	1.56			
PCB-88	5.53e+05	1.56	y	33:28	0.93	59.5		-	-	*	Co-elute PCB 91		
PCB-91	5.53e+05	1.56	y	33:28	0.93	59.5		-	-	*	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.17	*		456	426	1.11			
13C-PCB-104	1.99e+07	1.60	y	30:03	0.62	2010					101	2.11e+06	1.29e+06
13C-PCB-28	6.62e+07	1.08	y	26:41	2.10	1980					99.0	8.03e+06	7.40e+06
13C-PCB-52	3.18e+07	0.80	y	28:57	-	18.8							

PCB-56	1.60e+06	0.77	y	33:59	1.30	65.1	-	-	*		Co-elute PCB 60	
PCB-60	1.60e+06	0.77	y	33:59	1.30	65.1	-	-	*		Co-elute PCB 56	
PCB-79	1.31e+05	0.83	y	35:01	1.27	5.47	-	-	*			
PCB-78	*	*	n	NotFnd	1.21	*	556	627	0.672			
PCB-81	2.28e+05	0.80	y	36:12	1.33	9.17	-	-	*			
13C-PCB-81	3.75e+07	0.82	y	36:09	1.59	2050				103	3.49e+06	4.27e+06
PCB-77	4.89e+05	0.79	y	36:45	1.22	21.0	-	-	*			
13C-PCB-77	3.81e+07	0.81	y	36:43	1.65	2000				100	3.01e+06	3.82e+06
PCB-155	*	*	n	NotFnd	1.16	*	321	320	0.706			
PCB-150	*	*	n	NotFnd	1.06	*	321	320	0.770			
PCB-152	*	*	n	NotFnd	1.01	*	321	320	0.809			
PCB-145	*	*	n	NotFnd	1.05	*	321	320	0.783			
PCB-136	5.89e+05	1.25	y	36:36	1.01	64.9	-	-	*			
PCB-148	*	*	n	NotFnd	0.78	*	321	320	1.05			
PCB-154	5.36e+04	1.06	y	37:10	0.92	6.50	-	-	*			
13C-PCB-155	1.80e+07	1.30	y	34:13	0.86	1820				91.3	2.22e+06	1.69e+06
13C-PCB-111	2.74e+07	1.58	y	36:18	1.18	2010				100	3.63e+06	2.26e+06
13C-PCB-101	2.30e+07	1.59	y	34:40	-	16.5						
PCB-84	2.47e+06	1.55	y	34:19	0.59	237	-	-	*		Co-elute PCB 92	
PCB-92	2.47e+06	1.55	y	34:19	0.59	237	-	-	*		Co-elute PCB 84	
PCB-89	4.38e+04	1.45	y	34:29	0.58	4.27	-	-	*			
PCB-90	6.56e+06	1.55	y	34:41	0.68	554	-	-	*		Co-elute PCB 101	
PCB-101	6.56e+06	1.55	y	34:41	0.68	554	-	-	*		Co-elute PCB 90	
PCB-113	*	*	n	NotFnd	0.76	*	550	621	1.07			
PCB-99	2.89e+06	1.58	y	35:00	0.72	230	-	-	*			
PCB-119	1.88e+05	1.51	y	35:25	0.81	13.2	-	-	*			
PCB-83	3.10e+05	1.56	y	35:35	0.68	26.0	-	-	*		Co-elute PCB 112	
PCB-112	3.10e+05	1.56	y	35:35	0.68	26.0	-	-	*		Co-elute PCB 83	
PCB-109	*	*	n	NotFnd	0.80	*	550	621	1.00			
PCB-97	1.82e+06	1.64	y	35:54	0.71	146	-	-	*			
PCB-86	*	*	n	NotFnd	0.63	*	550	621	1.28			
PCB-125	2.91e+06	1.60	y	36:11	0.74	224	-	-	*		Co-elute PCB 87/117	
PCB-87	2.91e+06	1.60	y	36:11	0.74	224	-	-	*		Co-elute PCB 125/117	
PCB-117	2.91e+06	1.60	y	36:11	0.74	224	-	-	*		Co-elute PCB 125/87	
PCB-111	1.60e+05	1.55	y	36:19	0.98	9.28	-	-	*		Co-elute PCB 115	
PCB-115	1.60e+05	1.55	y	36:19	0.98	9.28	-	-	*		Co-elute PCB 111	
PCB-85	9.85e+05	1.65	y	36:26	0.67	83.7	-	-	*		Co-elute PCB 116	
PCB-116	9.85e+05	1.65	y	36:26	0.67	83.7	-	-	*		Co-elute PCB 85	
PCB-120	*	*	n	NotFnd	0.83	*	550	621	0.972			
PCB-110	8.52e+06	1.58	y	36:47	0.91	532	-	-	*			
PCB-82	4.98e+05	1.54	y	37:24	0.51	56.2	-	-	*			
PCB-124	4.32e+05	1.69	y	38:03	1.10	22.4	-	-	*			
PCB-108	7.13e+05	1.56	y	38:13	1.26	32.4	-	-	*		Co-elute PCB 107	
PCB-107	7.13e+05	1.56	y	38:13	1.26	32.4	-	-	*		Co-elute PCB 108	
PCB-123	1.77e+05	1.37	y	38:21	1.35	7.64	-	-	*			
13C-PCB-123	3.43e+07	1.62	y	38:21	1.45	2000				100	4.27e+06	2.58e+06
PCB-118	9.89e+06	1.59	y	38:32	1.17	468	-	-	*		Co-elute PCB 106	
PCB-106	9.89e+06	1.59	y	38:32	1.17	468	-	-	*		Co-elute PCB 118	
13C-PCB-118	3.60e+07	1.65	y	38:31	1.55	1970				98.5	4.71e+06	2.87e+06
PCB-114	2.35e+05	1.65	y	39:09	1.18	11.2	-	-	*			
13C-PCB-114	3.55e+07	1.64	y	39:07	1.50	2010				101	4.52e+06	2.76e+06
PCB-122	1.48e+05	1.37	y	39:15	1.24	6.81	-	-	*			
PCB-105	3.97e+06	1.58	y	39:58	1.20	193	-	-	*			
13C-PCB-105	3.41e+07	1.63	y	39:56	1.50	1930				96.5	4.55e+06	2.79e+06

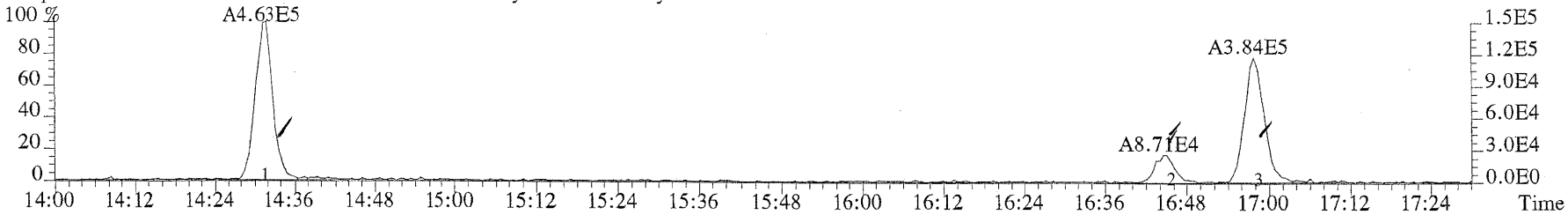
PCB-127	*	*	n	NotFnd	1.10	*		677	511	0.745			
PCB-126	8.87e+04	1.37	y	42:06	1.22	4.42		-	-	*			
13C-PCB-126	3.28e+07	1.63	y	42:05	1.38	2010					101	3.99e+06	2.49e+06
PCB-151	9.09e+05	1.30	y	37:46	0.82	88.8		-	-	*			
PCB-135	7.11e+05	1.27	y	37:58	0.78	73.0		-	-	*			
PCB-144	2.49e+05	1.25	y	38:04	0.96	20.7		-	-	*			
PCB-147	1.51e+05	1.21	y	38:13	0.89	13.6		-	-	*			
PCB-139	4.38e+06	1.24	y	38:27	0.95	370		-	-	*		Co-elute PCB 149	
PCB-149	4.38e+06	1.24	y	38:27	0.95	370		-	-	*		Co-elute PCB 139	
PCB-140	3.65e+04	1.14	y	38:39	0.91	3.20	J	-	-	*			
PCB-143	3.69e+05	1.25	y	39:04	0.89	33.1		-	-	*		Co-elute PCB 134	
PCB-134	3.69e+05	1.25	y	39:04	0.89	33.1		-	-	*		Co-elute PCB 143	
PCB-131	1.79e+05	1.23	y	39:20	0.89	16.2		-	-	*		Co-elute PCB 133	
PCB-133	1.79e+05	1.23	y	39:20	0.89	16.2		-	-	*		Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.75	*		441	403	1.10			
PCB-165	8.22e+05	1.21	y	39:42	1.05	62.9		-	-	*		Co-elute PCB 146	
PCB-146	8.22e+05	1.21	y	39:42	1.05	62.9		-	-	*		Co-elute PCB 165	
PCB-161	1.83e+06	1.31	y	39:56	1.00	147		-	-	*		Co-elute PCB 132	
PCB-132	1.83e+06	1.31	y	39:56	1.00	147		-	-	*		Co-elute PCB 161	
PCB-153	5.48e+06	1.27	y	40:05	1.01	434		-	-	*			
PCB-168	*	*	n	NotFnd	1.14	*		441	403	0.723			
PCB-141	9.74e+05	1.23	y	40:47	0.89	87.5		-	-	*			
PCB-137	3.38e+05	1.25	y	41:09	0.90	29.9		-	-	*			
PCB-130	4.78e+05	1.31	y	41:14	0.75	51.2		-	-	*			
PCB-138	7.03e+06	1.26	y	41:35	1.15	488		-	-	*		Co-elute PCB 163/164	
PCB-163	7.03e+06	1.26	y	41:35	1.15	488		-	-	*		Co-elute PCB 138/164	
PCB-164	7.03e+06	1.26	y	41:35	1.15	488		-	-	*		Co-elute PCB 138/163	
PCB-158	9.86e+05	1.31	y	41:48	1.16	67.9		-	-	*		Co-elute PCB 160	
PCB-160	9.86e+05	1.31	y	41:48	1.16	67.9		-	-	*		Co-elute PCB 158	
PCB-129	3.14e+05	1.26	y	42:03	0.75	33.6		-	-	*			
PCB-166	4.59e+04	1.31	y	42:29	1.07	3.42	J	-	-	*			
PCB-159	5.04e+04	1.27	y	42:49	1.16	3.48	J	-	-	*			
PCB-128	1.22e+06	1.28	y	43:04	0.97	101		-	-	*		Co-elute PCB 162	
PCB-162	1.22e+06	1.28	y	43:04	0.97	101		-	-	*		Co-elute PCB 128	
PCB-167	3.89e+05	1.23	y	43:27	1.06	28.7		-	-	*			
13C-PCB-167	2.55e+07	1.29	y	43:25	1.15	1880					94.2	2.82e+06	2.19e+06
PCB-156	8.01e+05	1.22	y	44:41	1.12	58.1		-	-	*			
13C-PCB-156	2.46e+07	1.30	y	44:39	1.10	1890					94.7	3.01e+06	2.31e+06
PCB-157	2.25e+05	1.17	y	44:56	1.13	16.1		-	-	*			
13C-PCB-157	2.48e+07	1.32	y	44:54	1.15	1830					91.6	2.84e+06	2.21e+06
PCB-169	*	*	n	NotFnd	1.09	*		441	403	0.775			
13C-PCB-169	2.50e+07	1.28	y	46:48	1.08	1950					97.8	2.83e+06	2.17e+06

FAL ID: 11719-002-0001-SA Filename: 30JUL18Z Sam:6 Acquired: 30-JUL-18 15:12:19 ICal: DAILY209FAL4-7-30-18
Client ID: LDW-Y1-IN-ENR-CB-CORE ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 5.010

PCB-188	*	*	n	NotFnd	1.14	*		399	301	0.728			
13C-PCB-188	1.86e+07	1.08	y	39:42	0.92	1720					85.9	2.22e+06	1.98e+06
PCB-184	*	*	n	NotFnd	1.18	*		399	301	0.649			
PCB-179	3.12e+05	1.07	y	40:52	1.10	30.7		-	-	*			
PCB-176	1.01e+05	1.00	y	41:19	1.07	10.2		-	-	*			
PCB-186	*	*	n	NotFnd	1.10	*		399	301	0.696			
PCB-178	1.19e+05	0.98	y	42:21	0.79	16.2		-	-	*			
PCB-175	6.86e+05	1.01	y	42:49	0.83	89.2		-	-	*			
PCB-187	6.86e+05	1.01	y	42:49	0.91	81.3		-	-	*		Co-elute PCB 182	
PCB-182	6.86e+05	1.01	y	42:49	0.91	81.3		-	-	*		Co-elute PCB 187	
PCB-183	3.52e+05	1.13	y	43:09	0.88	43.1		-	-	*			
PCB-185	6.38e+04	1.14	y	43:45	0.85	8.13		-	-	*			
PCB-174	5.43e+05	1.06	y	44:07	0.82	71.5		-	-	*			
PCB-181	*	*	n	NotFnd	0.85	*		399	301	0.899			
PCB-177	3.34e+05	1.15	y	44:21	0.76	47.4		-	-	*			
PCB-171	1.92e+05	1.04	y	44:39	0.81	25.8		-	-	*			
PCB-173	*	*	n	NotFnd	0.74	*		399	301	1.04			
PCB-172	9.84e+04	1.07	y	45:27	0.73	14.6		-	-	*			
PCB-192	*	*	n	NotFnd	1.06	*		399	301	0.724			
PCB-180	1.22e+06	1.05	y	45:49	1.02	129		-	-	*			
PCB-193	8.77e+04	1.18	y	45:58	1.10	8.63		-	-	*			
PCB-191	4.39e+04	1.14	y	46:10	1.01	4.72		-	-	*			
PCB-170	5.65e+05	1.16	y	47:06	0.75	81.8		-	-	*			
PCB-190	1.77e+05	1.18	y	47:14	0.98	19.5		-	-	*			
PCB-189	3.73e+04	1.19	y	48:28	1.12	3.62	J	-	-	*			
13C-PCB-189	1.83e+07	1.05	y	48:27	0.82	1890					94.6	2.54e+06	2.42e+06
PCB-202	4.96e+04	0.76	y	44:49	1.01	8.49		-	-	*			
PCB-201	3.25e+04	0.93	y	45:16	0.99	5.66		-	-	*			
PCB-204	*	*	n	NotFnd	0.96	*		301	300	1.24			
PCB-197	*	*	n	NotFnd	1.06	*		301	300	1.13			
PCB-200	2.40e+04	0.84	y	46:25	0.98	4.21		-	-	*			
PCB-198	*	*	n	NotFnd	0.72	*		301	300	1.67			
PCB-199	1.58e+05	0.89	y	47:42	0.78	35.2		-	-	*			
PCB-203	1.88e+05	0.98	y	47:57	0.82	39.5		-	-	*		Co-elute PCB 196	
PCB-196	1.88e+05	0.98	y	47:57	0.82	39.5		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.16e+07	0.93	y	44:48	0.59	1670					83.6	1.19e+06	1.31e+06
13C-PCB-178	1.51e+07	1.06	y	42:20	0.65	1960					98.0	1.80e+06	1.68e+06
13C-PCB-138	2.35e+07	1.31	y	41:33	-	16.1							
PCB-195	1.52e+05	0.82	y	49:03	0.79	12.2		-	-	*			
PCB-194	4.40e+05	0.83	y	49:50	0.85	32.6		-	-	*			
PCB-205	2.78e+04	0.82	y	50:07	1.15	1.54	J	-	-	*			
13C-PCB-205	3.15e+07	0.92	y	50:06	1.30	1670					83.5	4.53e+06	4.92e+06
PCB-208	3.82e+04	1.35	y	49:09	1.05	2.95	J	-	-	*			
13C-PCB-208	2.46e+07	0.81	y	49:08	1.04	1630					81.6	3.72e+06	4.67e+06
PCB-207	2.38e+04	1.21	y	49:27	1.07	2.08	J	-	-	*			
PCB-206	1.38e+05	1.42	y	51:18	1.04	14.4		-	-	*			
13C-PCB-206	1.84e+07	0.82	y	51:16	0.86	1470					73.8	2.51e+06	3.04e+06
PCB-209	9.64e+04	1.02	y	52:28	1.10	8.57		-	-	*			
13C-PCB-209	2.04e+07	1.22	y	52:28	0.98	1440					72.0	3.21e+06	2.58e+06
13C-PCB-194	2.89e+07	0.92	y	49:50	-	18.3							

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

File:30JUL18Z #1-783 Acq:30-JUL-2018 15:12:19 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:11719-002-0001-SA File Text:Frontier Analytical Laboratory



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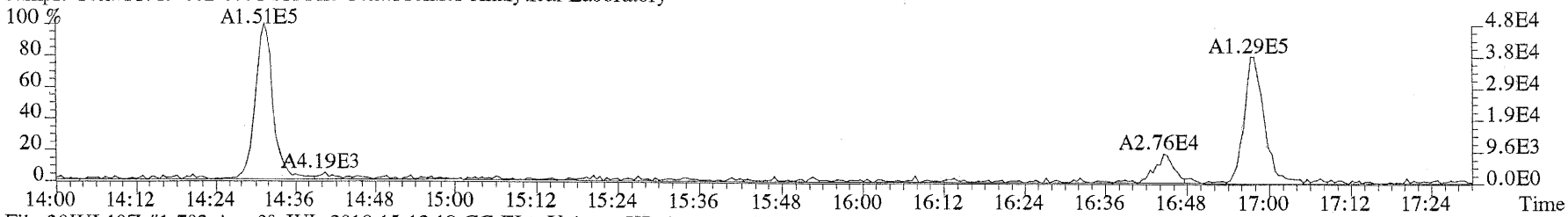
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



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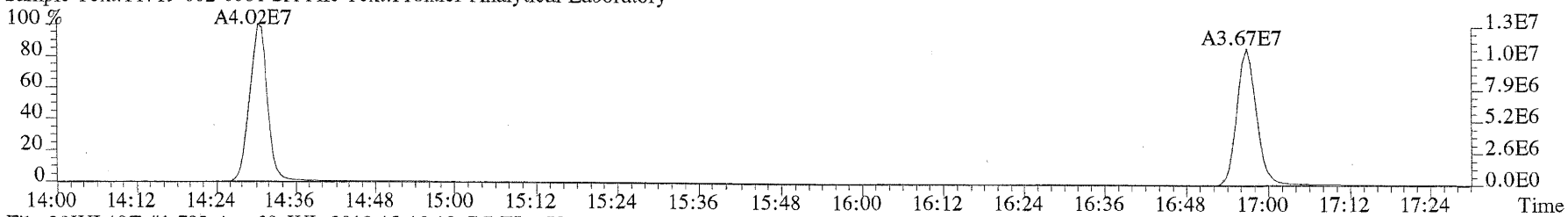
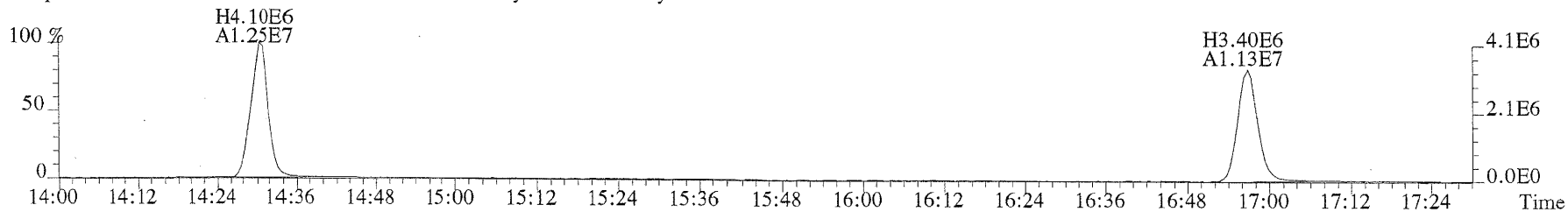
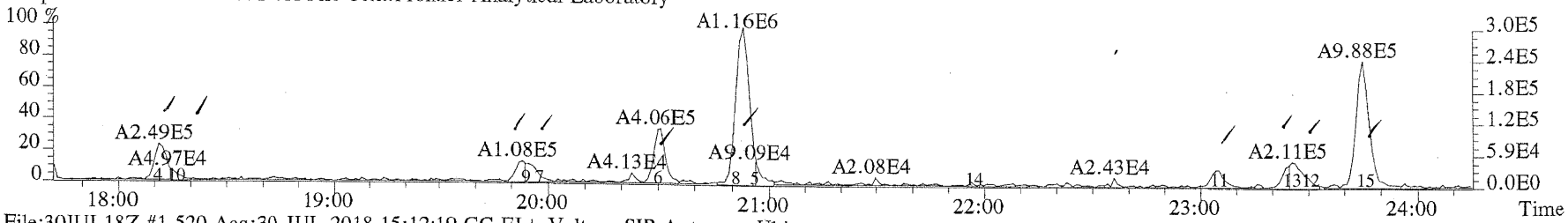
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



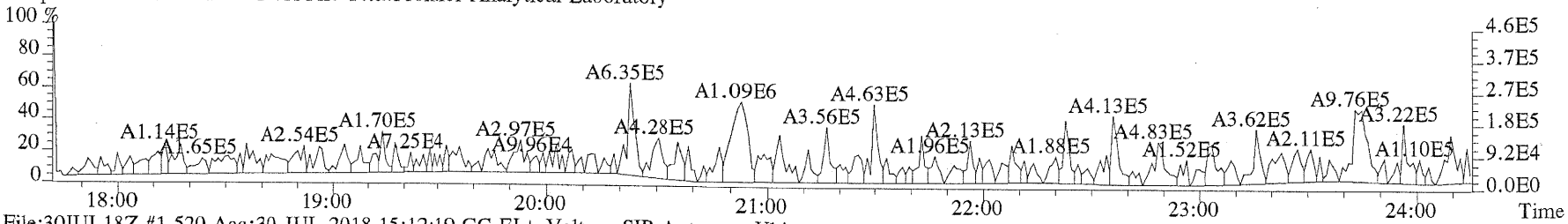
File:30JUL18Z #1-783 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



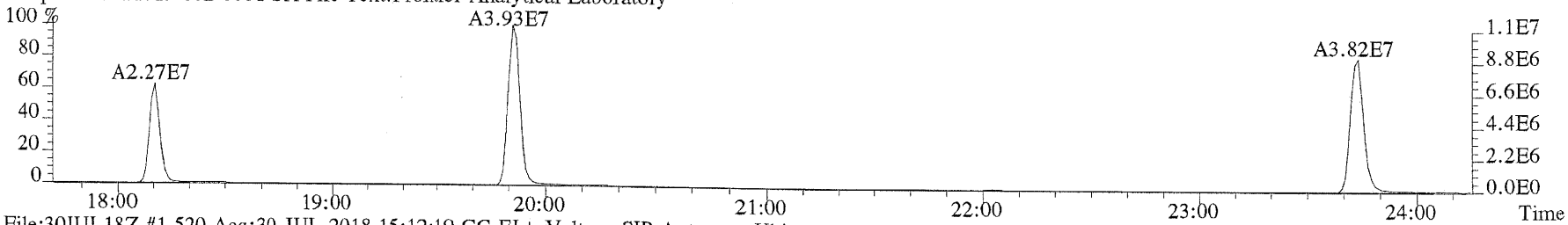
File:30JUL18Z #1-520 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



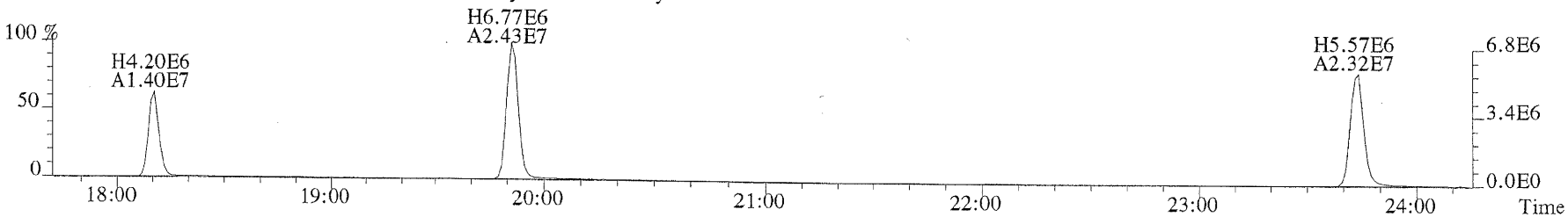
File:30JUL18Z #1-520 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



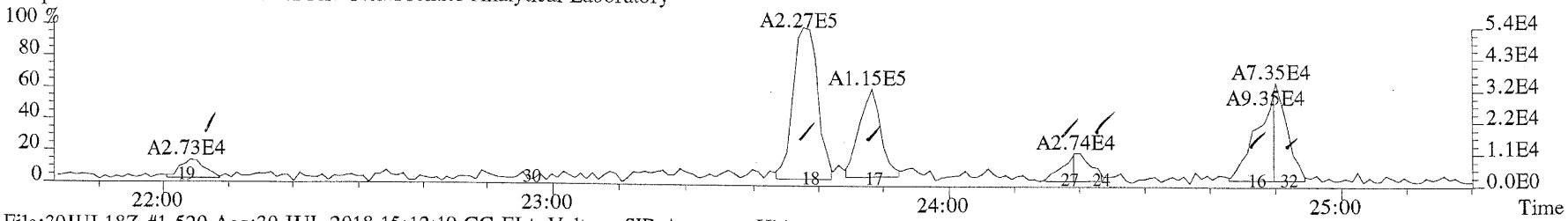
File:30JUL18Z #1-520 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



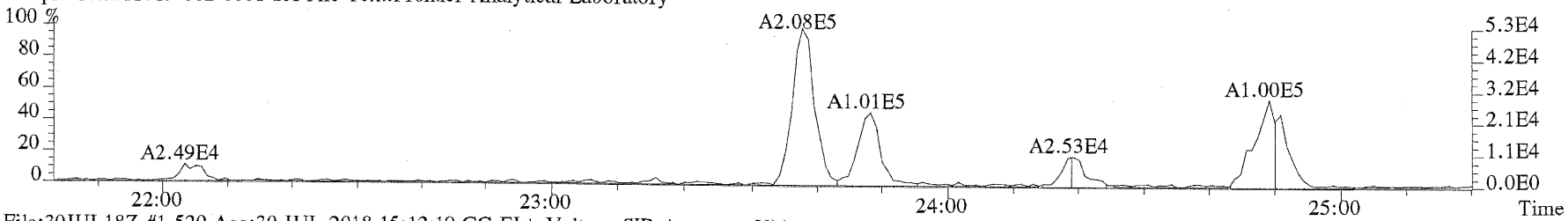
File:30JUL18Z #1-520 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



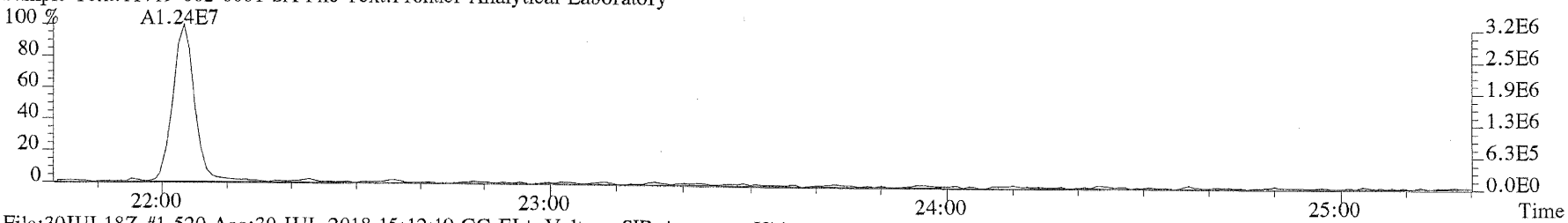
File:30JUL18Z #1-520 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



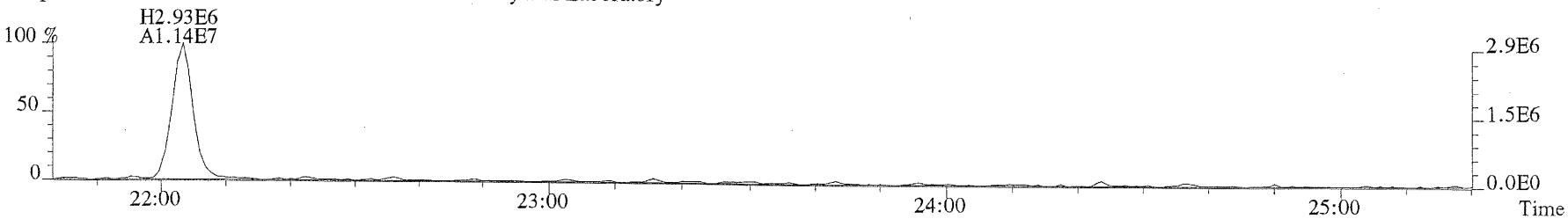
File:30JUL18Z #1-520 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



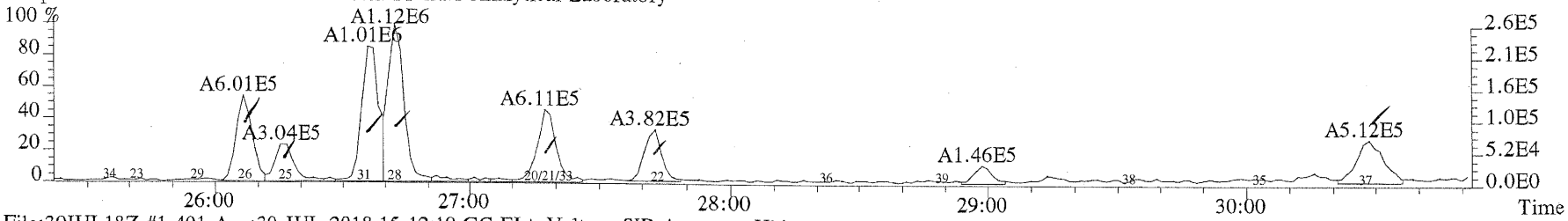
File:30JUL18Z #1-520 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



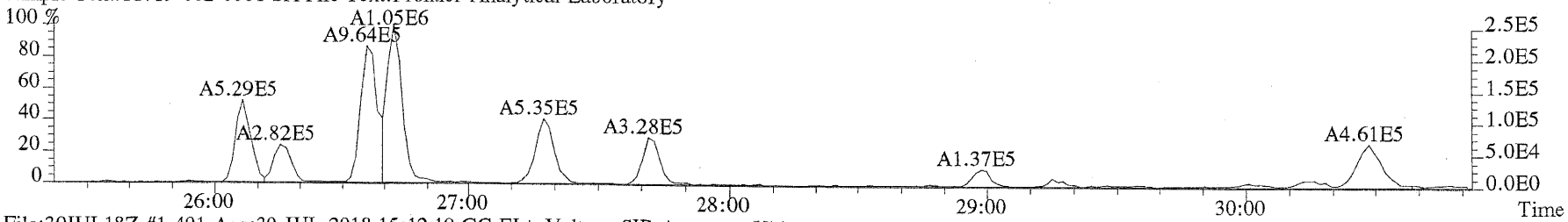
File:30JUL18Z #1-520 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



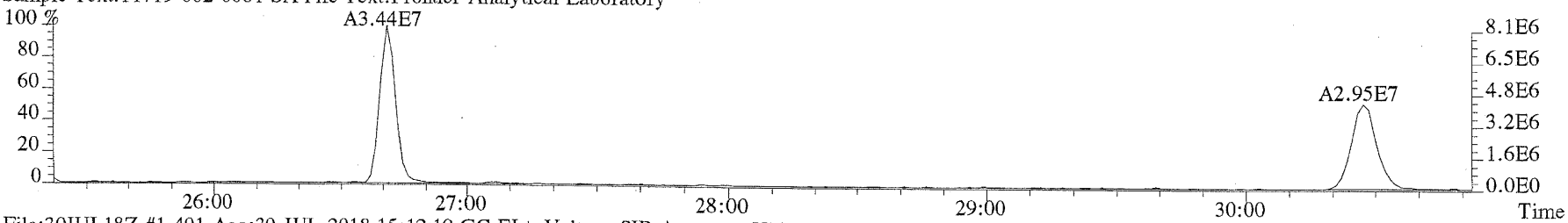
File:30JUL18Z #1-401 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



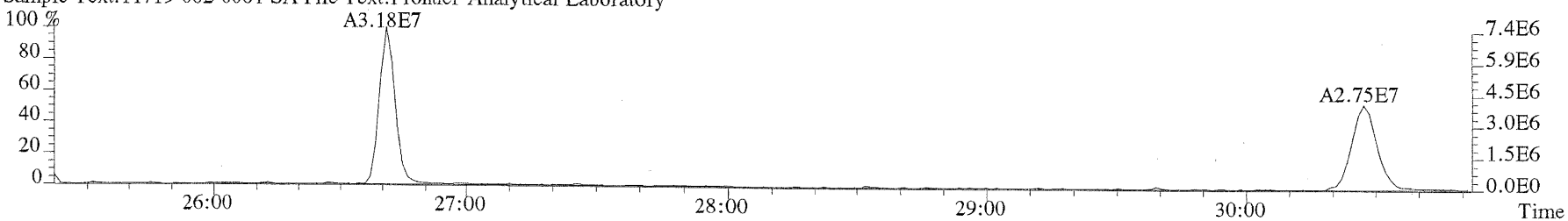
File:30JUL18Z #1-401 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



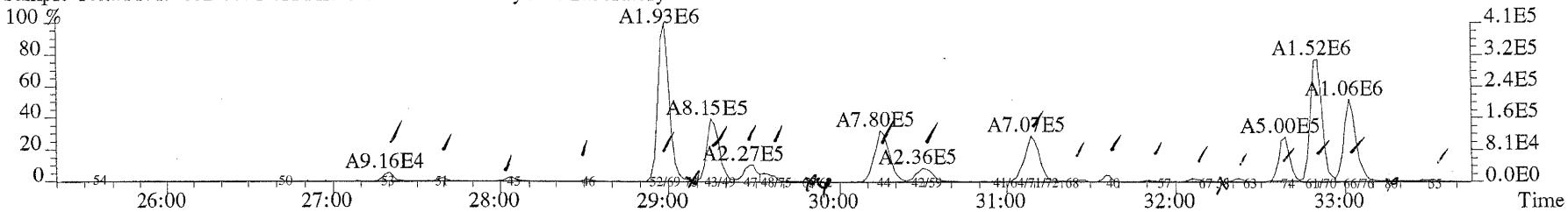
File:30JUL18Z #1-401 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



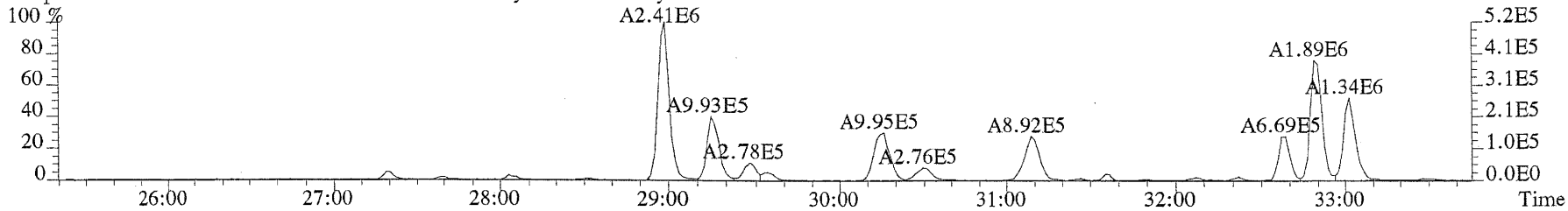
File:30JUL18Z #1-401 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



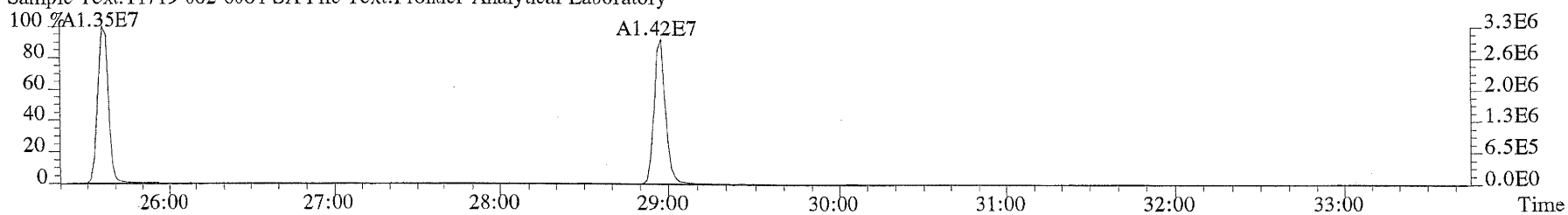
File:30JUL18Z #1-401 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



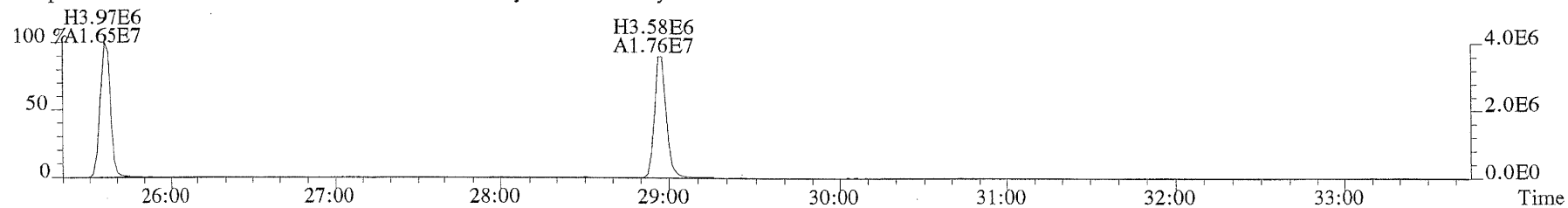
File:30JUL18Z #1-401 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



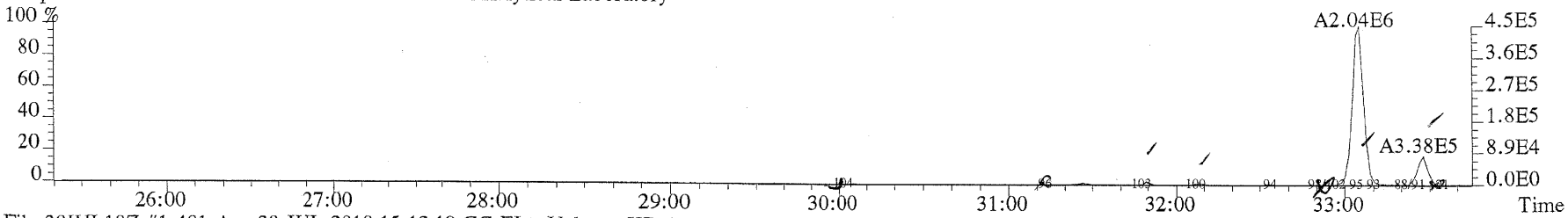
File:30JUL18Z #1-401 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



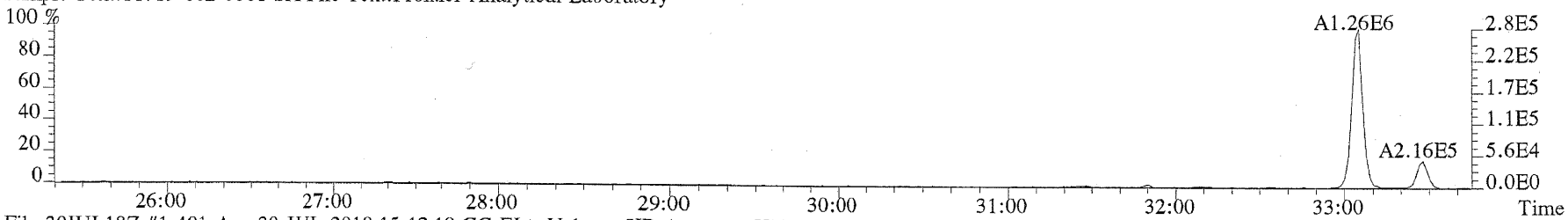
File:30JUL18Z #1-401 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



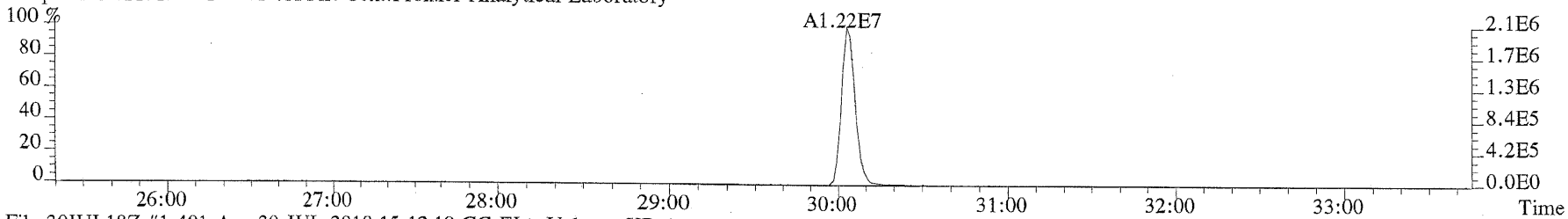
File:30JUL18Z #1-401 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



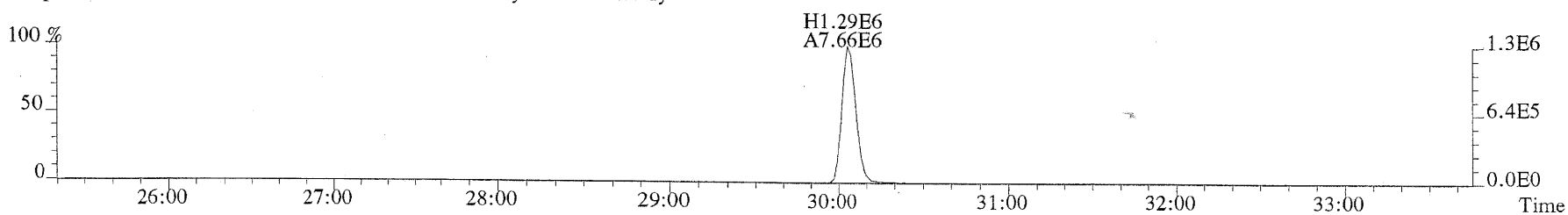
File:30JUL18Z #1-401 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



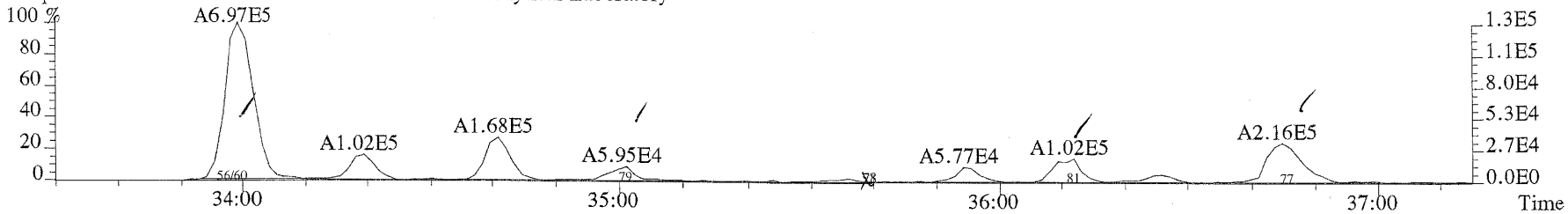
File:30JUL18Z #1-401 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



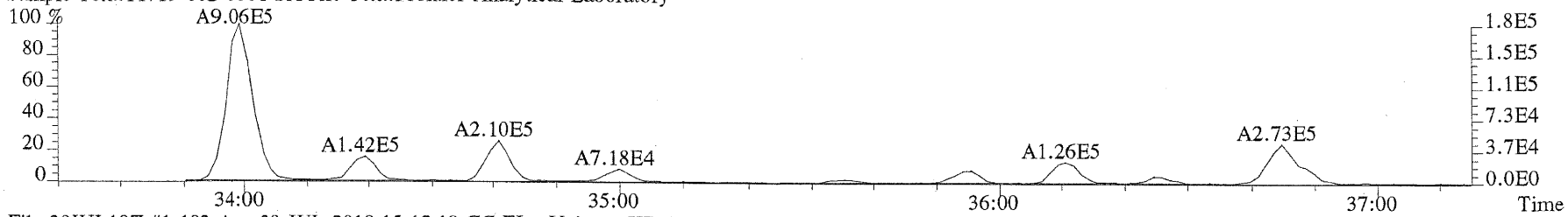
File:30JUL18Z #1-401 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



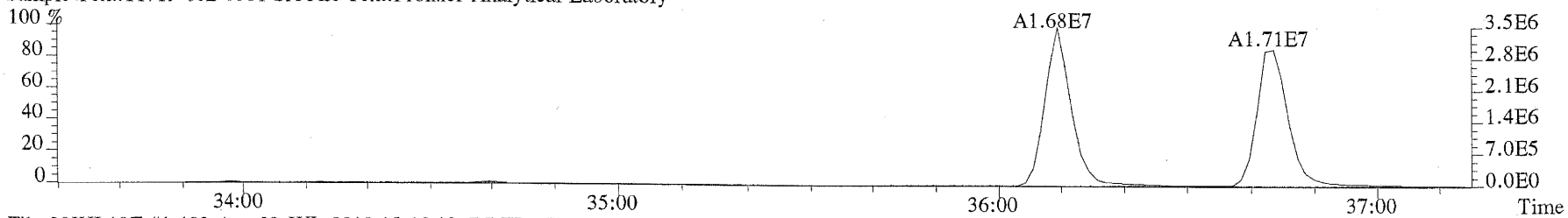
File:30JUL18Z #1-183 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



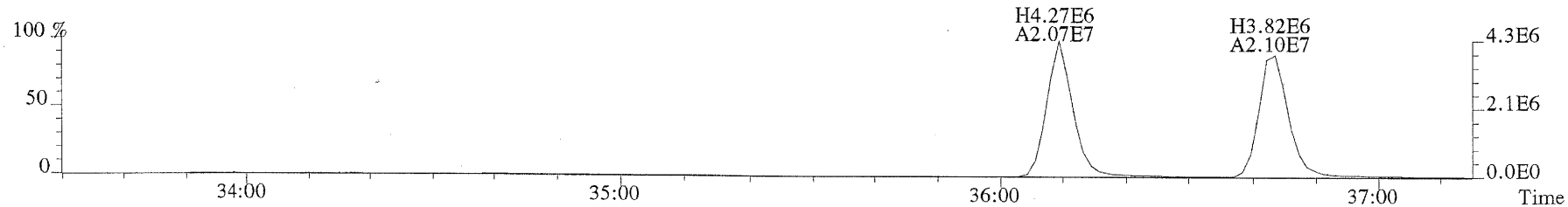
File:30JUL18Z #1-183 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



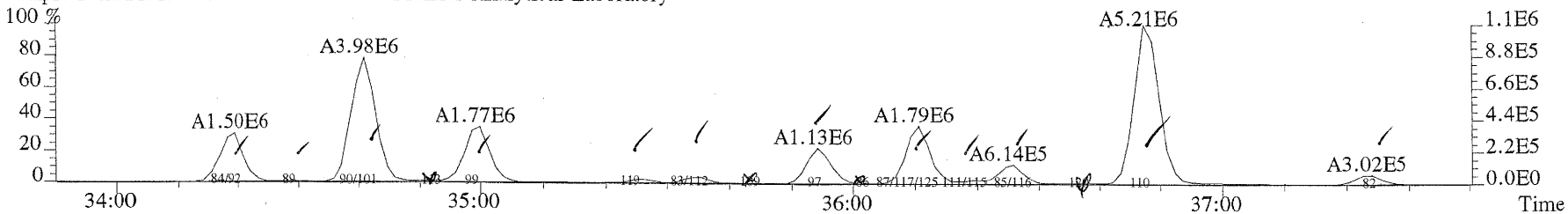
File:30JUL18Z #1-183 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



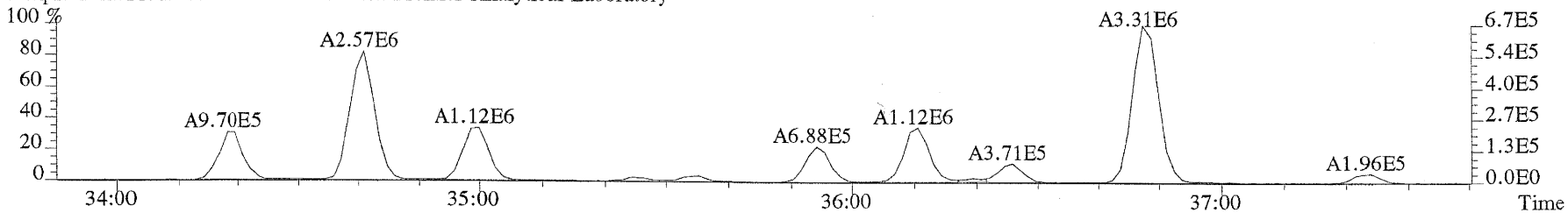
File:30JUL18Z #1-183 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



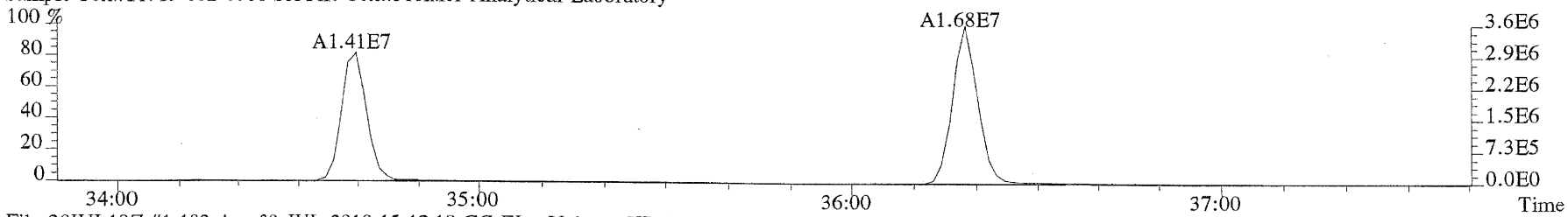
File:30JUL18Z #1-183 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



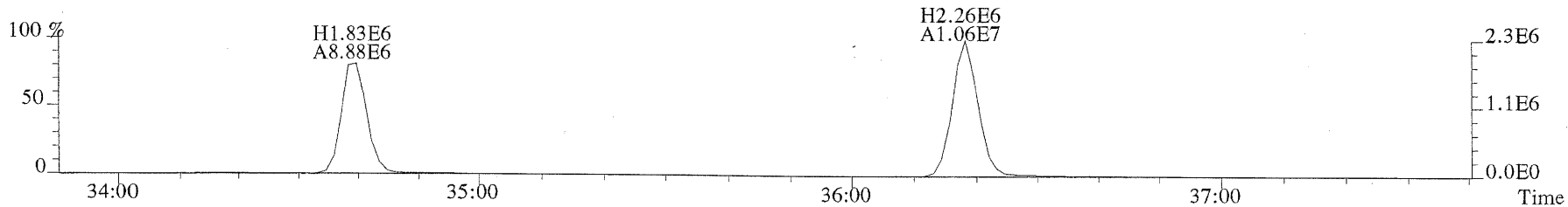
File:30JUL18Z #1-183 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



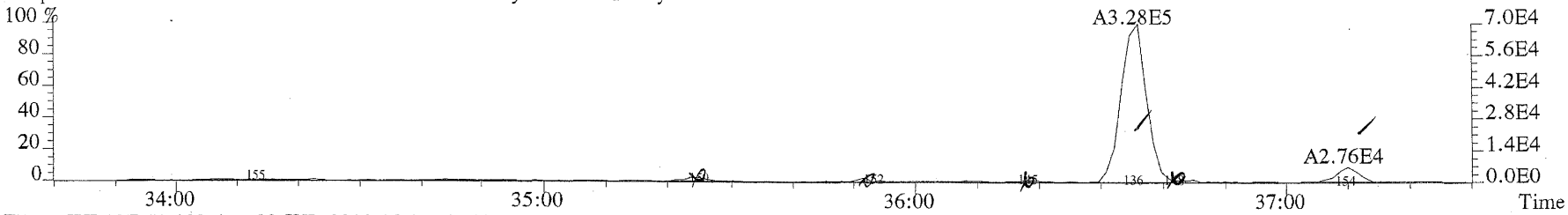
File:30JUL18Z #1-183 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



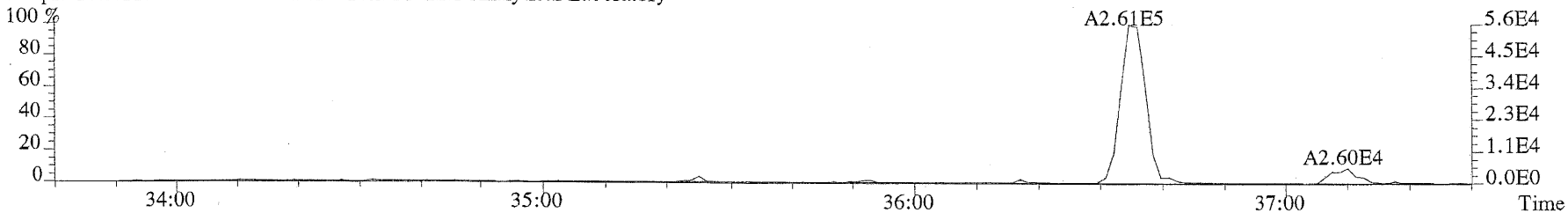
File:30JUL18Z #1-183 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



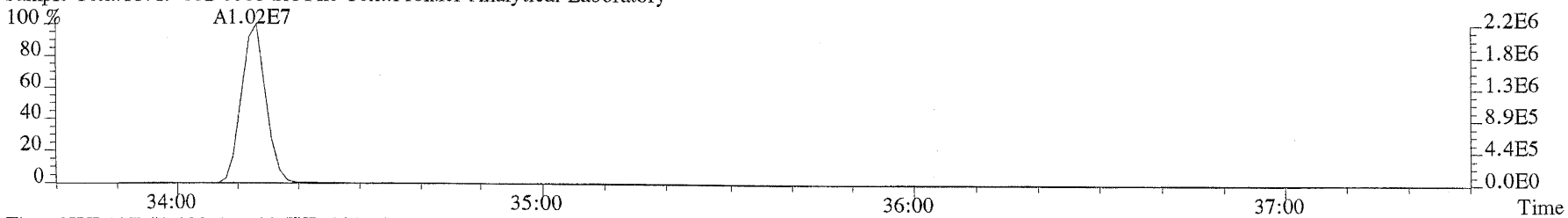
File:30JUL18Z #1-183 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



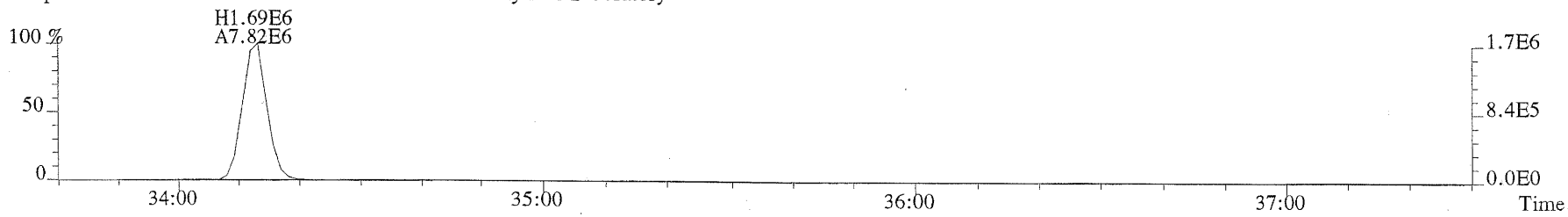
File:30JUL18Z #1-183 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



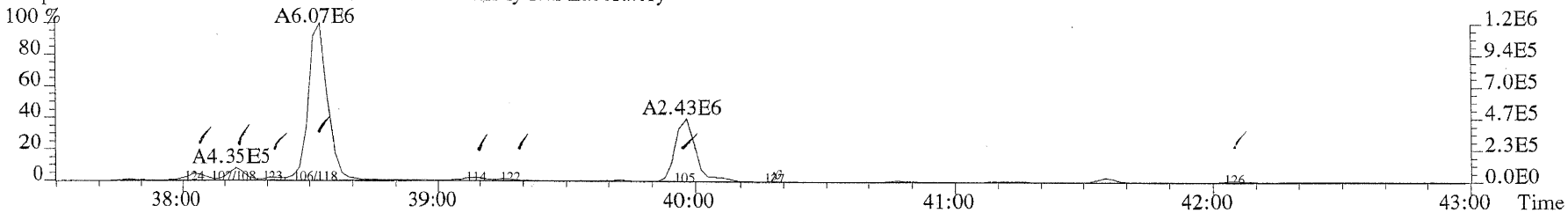
File:30JUL18Z #1-183 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



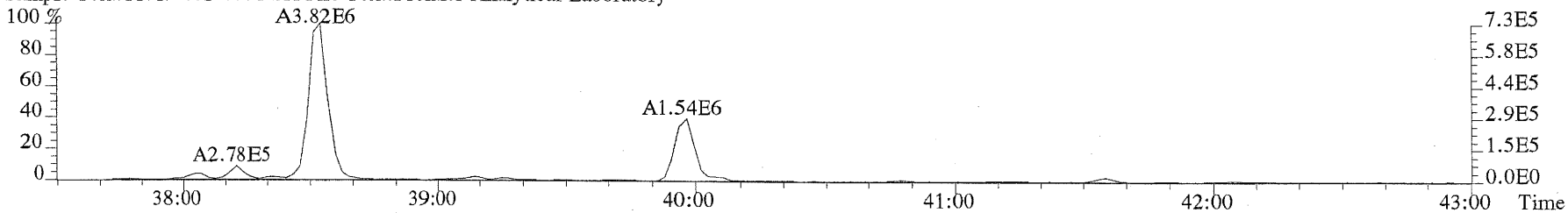
File:30JUL18Z #1-183 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



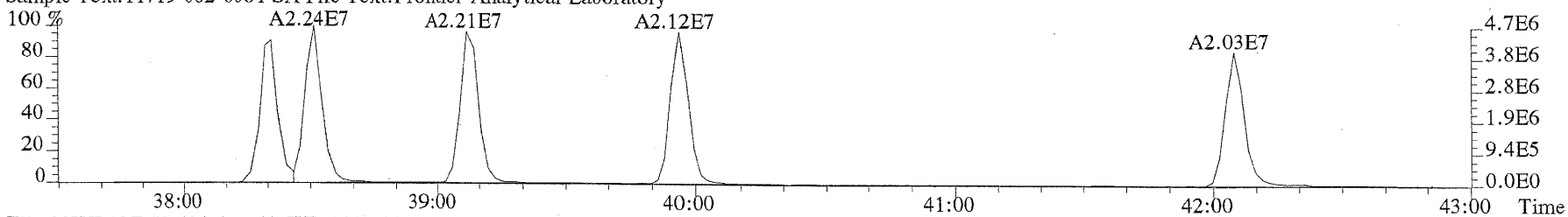
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



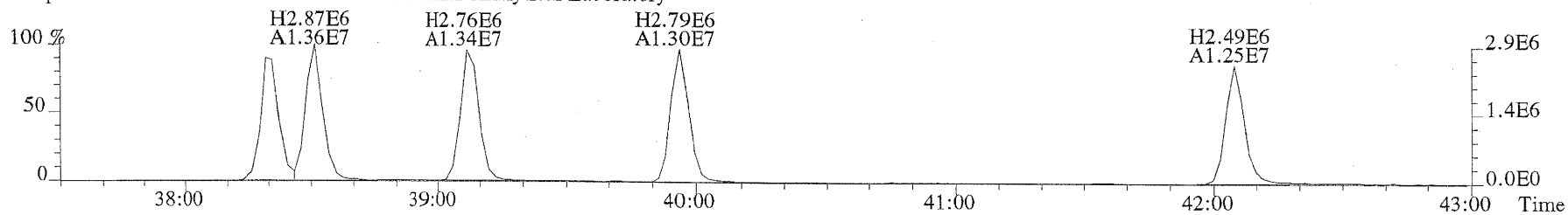
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



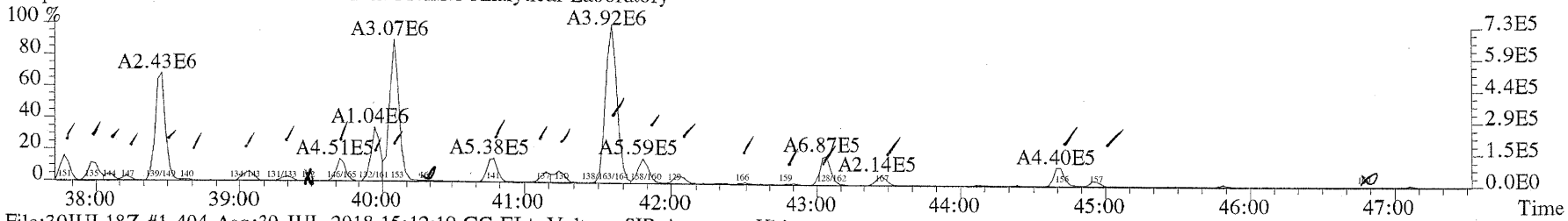
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



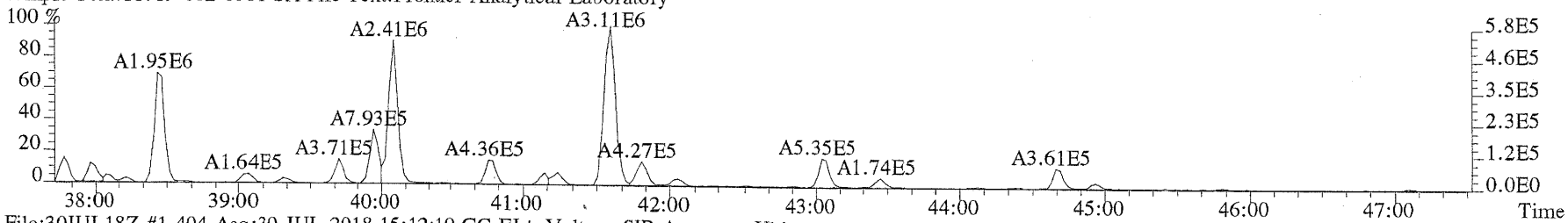
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



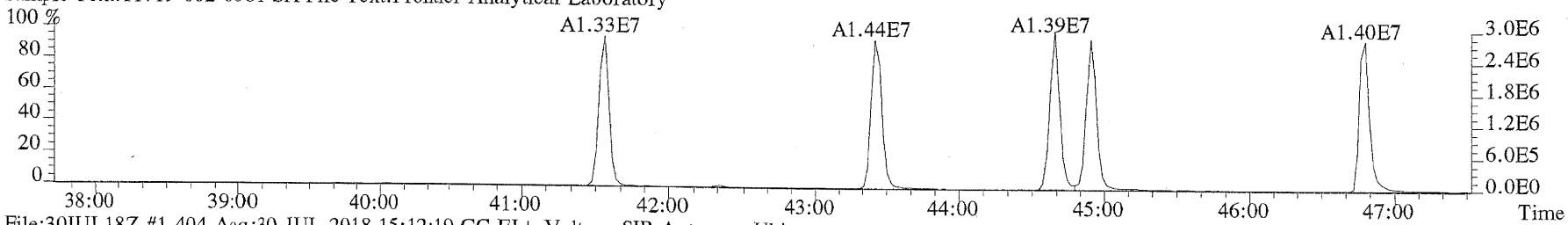
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



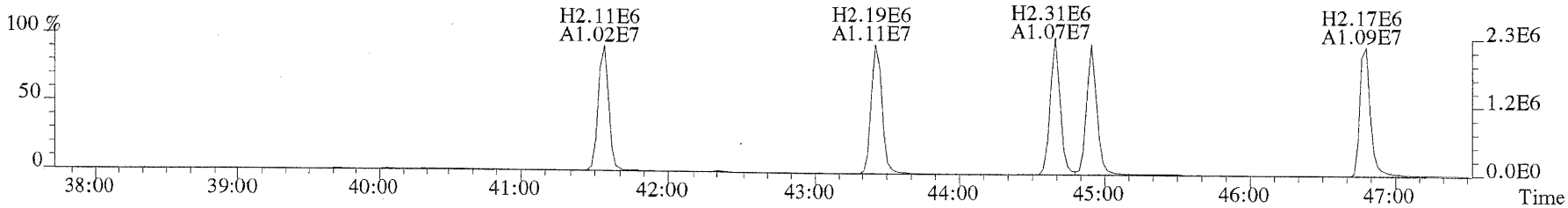
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



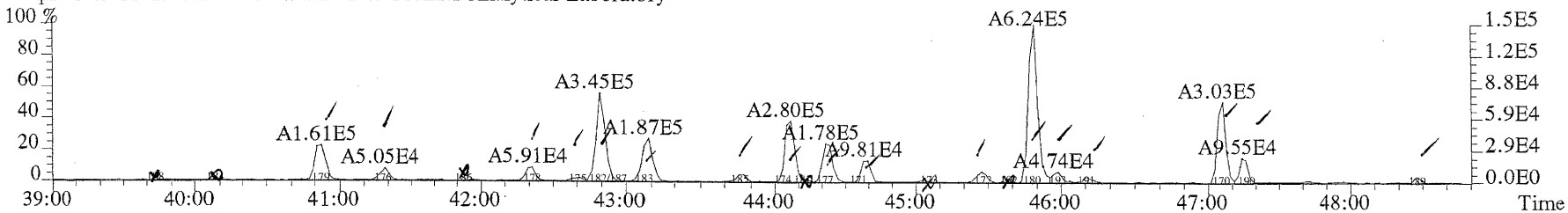
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



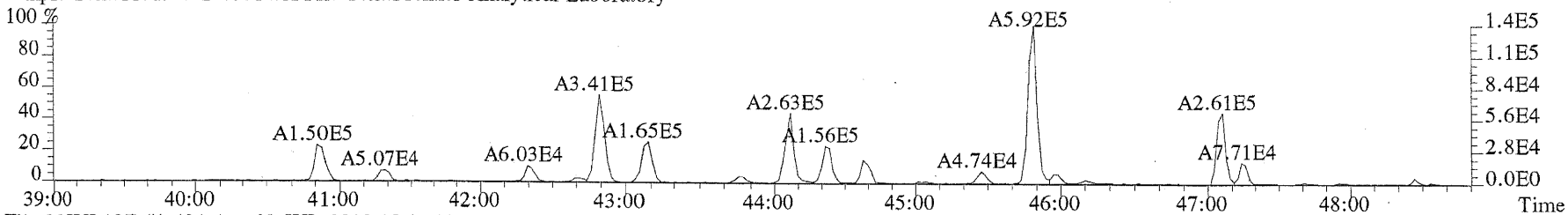
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



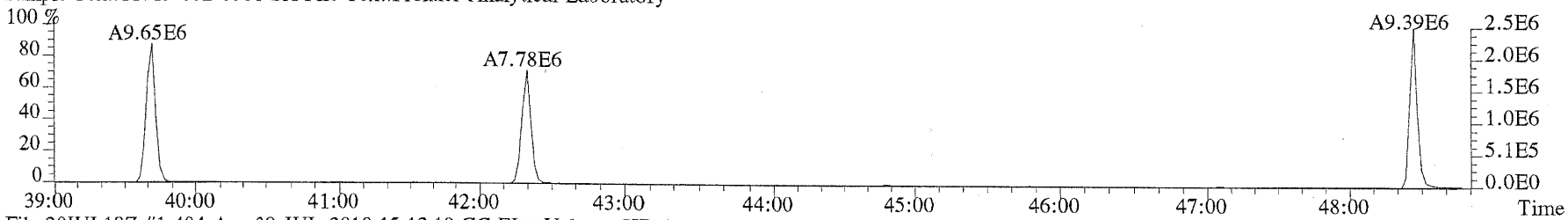
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



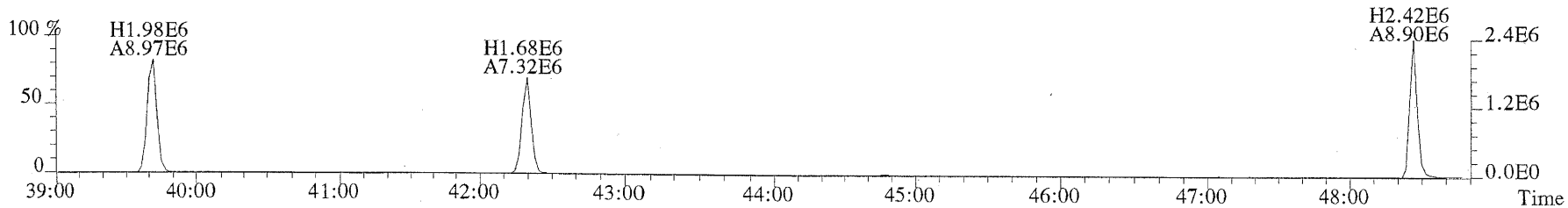
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



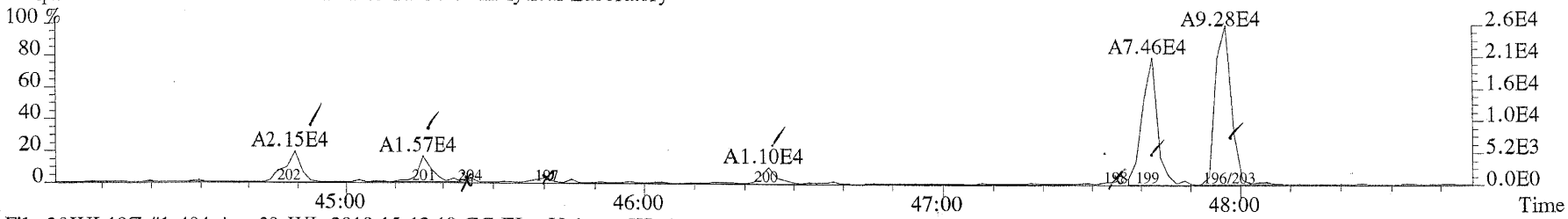
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



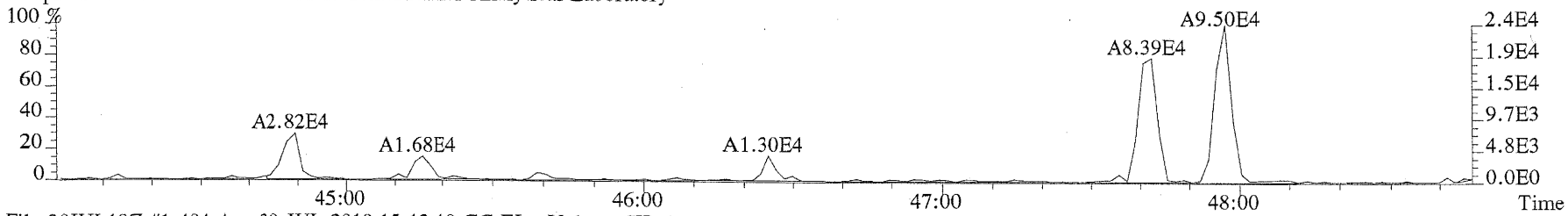
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



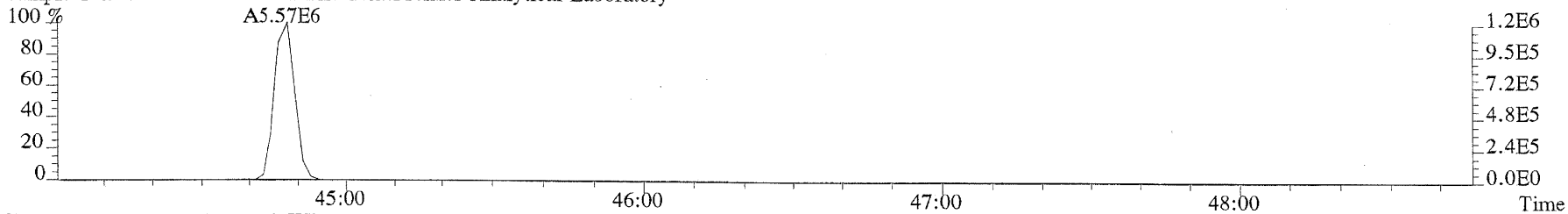
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



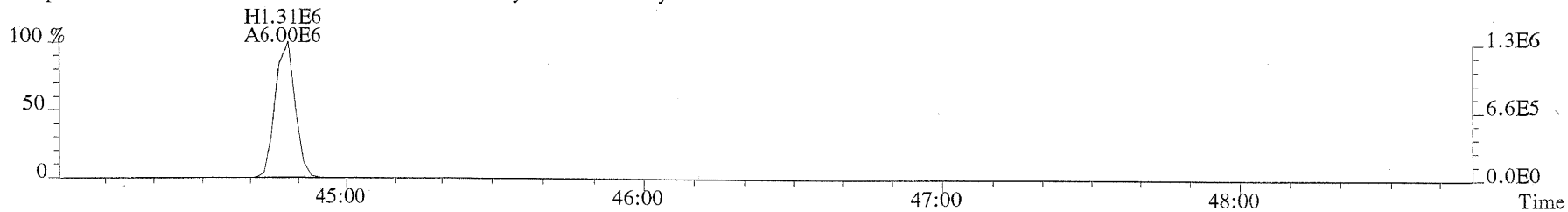
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



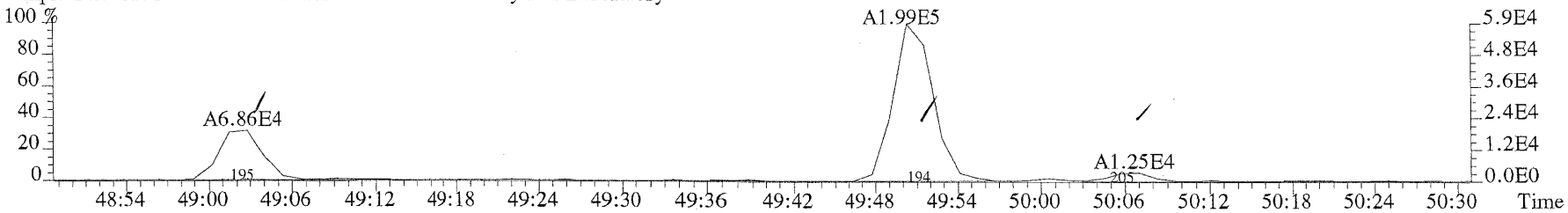
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



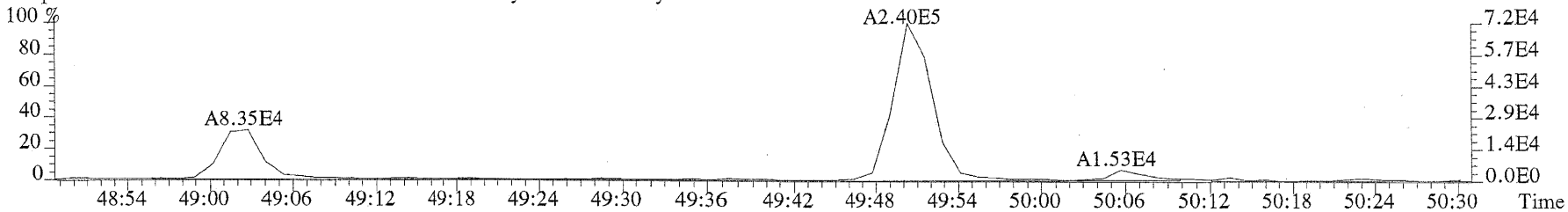
File:30JUL18Z #1-404 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



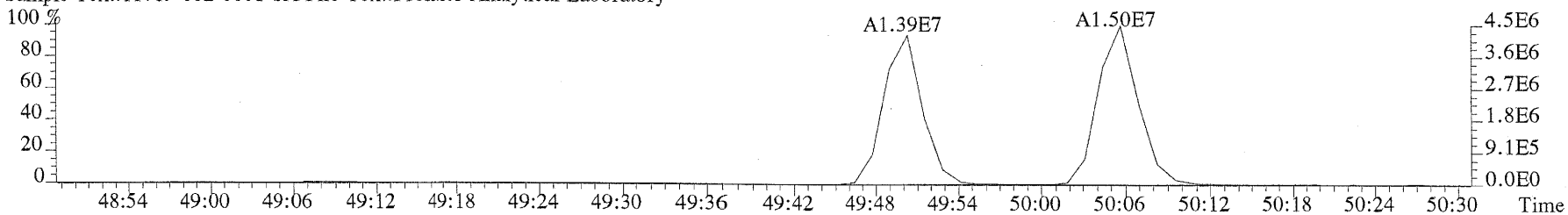
File:30JUL18Z #1-314 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



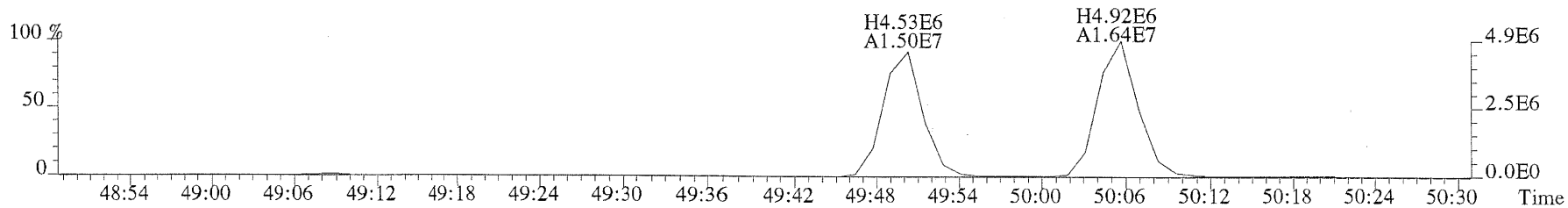
File:30JUL18Z #1-314 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



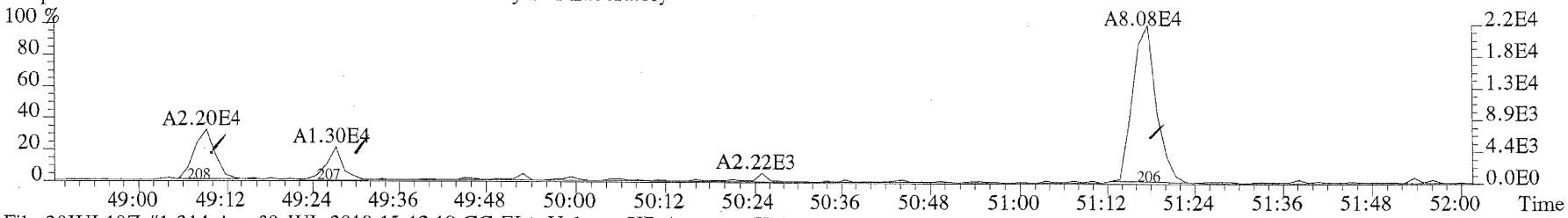
File:30JUL18Z #1-314 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



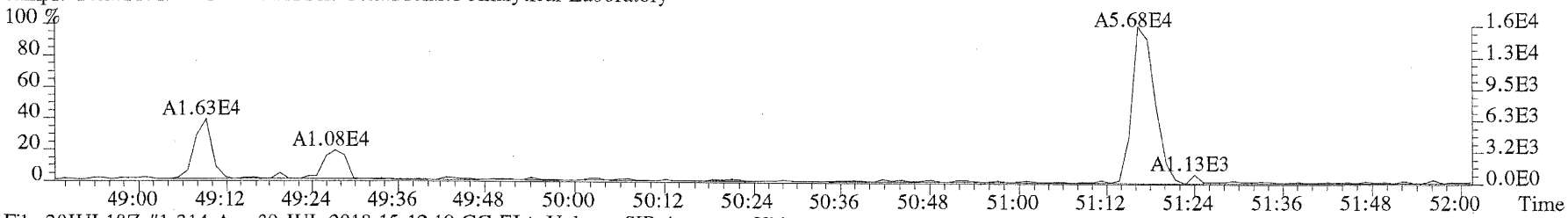
File:30JUL18Z #1-314 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



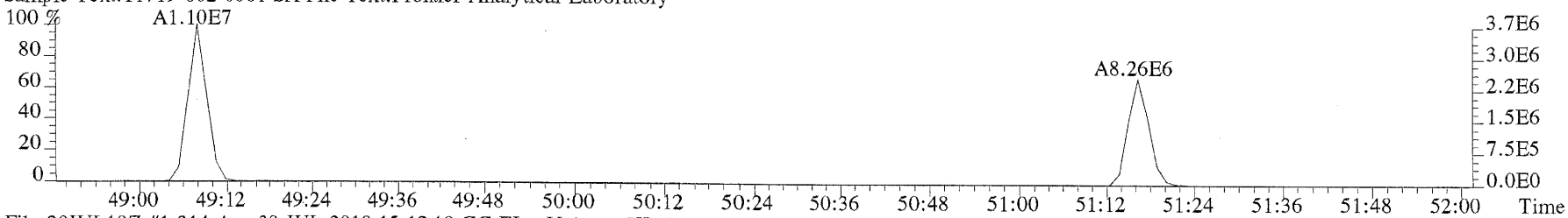
File:30JUL18Z #1-314 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



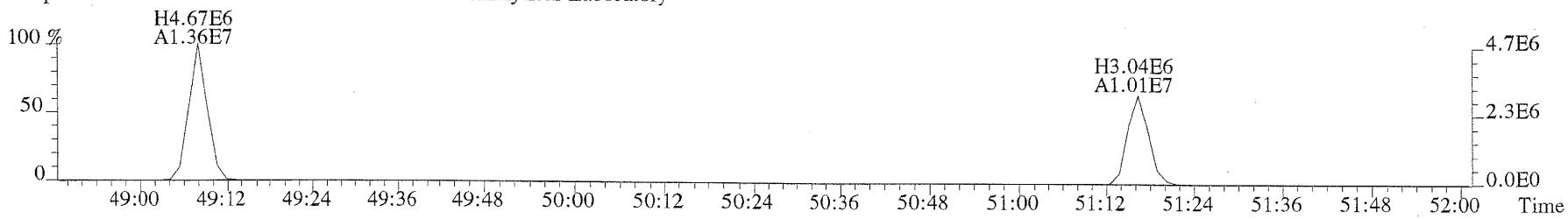
File:30JUL18Z #1-314 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



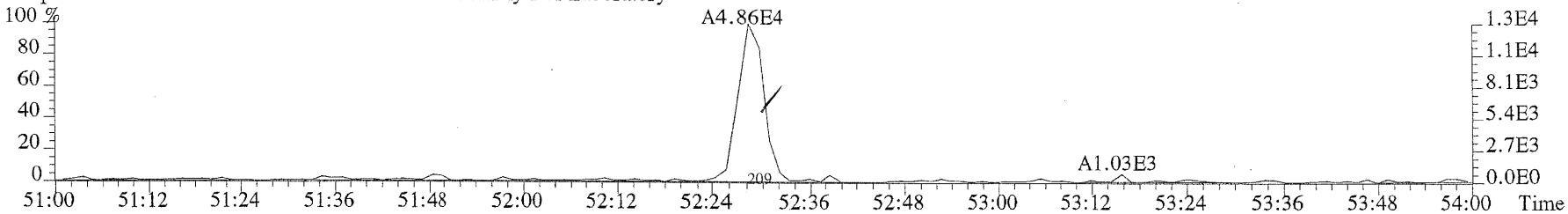
File:30JUL18Z #1-314 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



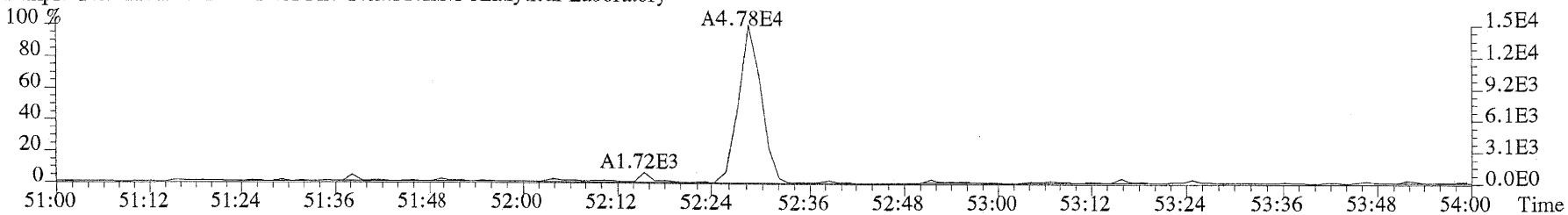
File:30JUL18Z #1-314 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



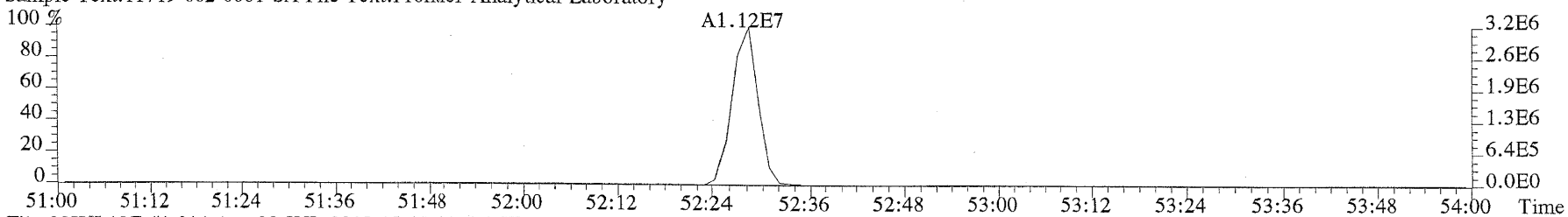
File:30JUL18Z #1-314 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



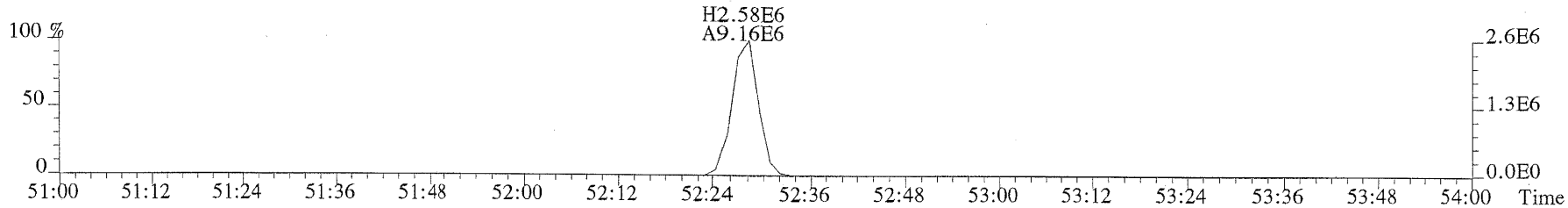
File:30JUL18Z #1-314 Acq:30-JUL-2018 15:12:19 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-002-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-314 Acq:30-JUL-2018 15:12:19 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:11719-002-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-314 Acq:30-JUL-2018 15:12:19 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:11719-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-003-0001-SA Filename: 30JUL18Z Sam:7 Acquired: 30-JUL-18 16:11:06 ICal: DAILY209FAL4-7-30-18
Client ID: LDW-Y1-IN-ENR-CC-CORE ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 5.010

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	5.26e+05	2.87 y	14:32	1.20	18.2		-	-	*			
13C-PCB-1	4.83e+07	3.23 y	14:30	0.92	1780					89.0	1.22e+07	3.79e+06
PCB-2	9.96e+04	2.80 y	16:45	1.08	3.89	J	-	-	*			
PCB-3	4.33e+05	3.10 y	16:58	1.19	15.7		-	-	*			
13C-PCB-3	4.64e+07	3.26 y	16:57	0.90	1750					87.9	9.99e+06	3.09e+06
PCB-4	3.23e+05	1.58 y	18:12	1.40	13.4		-	-	*			
PCB-10	7.07e+04	1.44 y	18:15	1.27	2.39	J	-	-	*			
13C-PCB-4	3.43e+07	1.60 y	18:10	0.68	1730					86.6	6.48e+06	4.09e+06
PCB-9	1.12e+05	1.54 y	19:52	1.40	3.42	J	-	-	*			
PCB-7	2.30e+05	1.42 y	19:54	1.49	6.56		-	-	*			
PCB-6	8.39e+05	1.45 y	20:31	1.40	25.6		-	-	*			
PCB-8	2.01e+06	1.33 y	20:53	1.37	62.6		-	-	*			
PCB-5	1.44e+05	1.54 y	20:56	1.45	4.23		-	-	*			
PCB-14	*	* n	NotFnd	1.34	*		770	1850	0.770			
PCB-11	2.78e+05	1.55 y	23:04	1.29	9.18		-	-	*			
PCB-13	3.18e+05	1.53 y	23:26	1.33	10.2		-	-	*			
PCB-12	1.62e+05	1.61 y	23:27	1.41	4.90		-	-	*			
PCB-15	1.61e+06	1.61 y	23:46	1.33	40.8		-	-	*			
13C-PCB-15	5.92e+07	1.64 y	23:44	1.00	2020					101	8.98e+06	5.43e+06
PCB-19	8.15e+04	1.01 y	22:04	1.21	6.07		-	-	*			
PCB-30	*	* n	NotFnd	1.67	*		750	706	0.748			
PCB-18	9.62e+05	1.09 y	23:38	1.17	73.6		-	-	*			
PCB-17	4.87e+05	1.12 y	23:48	1.28	34.2		-	-	*			
PCB-27	1.09e+05	1.13 y	24:19	1.57	6.27		-	-	*			
PCB-24	8.10e+04	1.17 y	24:21	1.72	4.23		-	-	*			
PCB-16	3.27e+05	0.97 y	24:49	1.40	21.0		-	-	*			
PCB-32	3.65e+05	1.07 y	24:50	1.46	22.4		-	-	*			
13C-PCB-19	2.23e+07	1.06 y	22:03	0.41	1830					91.7	3.00e+06	2.82e+06
13C-PCB-9	5.86e+07	1.64 y	19:52	-	16.0							
PCB-34	*	* n	NotFnd	1.28	*		650	604	0.663			
PCB-23	*	* n	NotFnd	1.27	*		650	604	0.668			
PCB-29	*	* n	NotFnd	1.33	*		650	604	0.640			
PCB-26	2.25e+06	1.02 y	26:07	1.26	71.2		-	-	*			
PCB-25	1.20e+06	1.07 y	26:17	1.59	30.1		-	-	*			
PCB-31	3.67e+06	1.04 y	26:37	1.29	113		-	-	*			
PCB-28	4.68e+06	1.06 y	26:42	1.56	119		-	-	*			
PCB-20	2.17e+06	1.09 y	27:18	1.33	64.7		-	-	*		Co-elute PCB 21/33	
PCB-21	2.17e+06	1.09 y	27:18	1.33	64.7		-	-	*		Co-elute PCB 20/33	
PCB-33	2.17e+06	1.09 y	27:18	1.33	64.7		-	-	*		Co-elute PCB 20/21	
PCB-22	1.35e+06	1.14 y	27:43	1.35	39.7		-	-	*			
PCB-36	*	* n	NotFnd	1.21	*		650	604	0.704			
PCB-39	*	* n	NotFnd	1.27	*		650	604	0.668			
PCB-38	*	* n	NotFnd	1.28	*		650	604	0.664			
PCB-35	*	* n	NotFnd	1.15	*		650	604	0.739			
PCB-37	1.38e+06	1.10 y	30:28	1.37	40.3		-	-	*			
13C-PCB-37	5.01e+07	1.05 y	30:28	1.82	1790					89.7	3.84e+06	3.52e+06

PCB-54	*	*	n	NotFnd	1.19	*		496	680	0.750			
PCB-50	*	*	n	NotFnd	0.91	*		496	680	0.986			
PCB-53	3.07e+05	0.85	y	27:20	0.92	24.3		-	-	*			
PCB-51	8.21e+04	0.78	y	27:40	0.93	6.40		-	-	*			
PCB-45	1.89e+05	0.81	y	28:04	0.78	17.7		-	-	*			
PCB-46	8.17e+04	0.73	y	28:32	0.76	7.83		-	-	*			
PCB-52	5.32e+06	0.81	y	28:59	1.06	367		-	-	*	Co-elute PCB 69		
PCB-69	5.32e+06	0.81	y	28:59	1.06	367		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.26	*		496	680	0.710			
PCB-43	2.94e+06	0.82	y	29:16	0.88	242		-	-	*	Co-elute PCB 49		
PCB-49	2.94e+06	0.82	y	29:16	0.88	242		-	-	*	Co-elute PCB 43		
PCB-47	9.07e+05	0.76	y	29:29	1.14	57.6		-	-	*			
PCB-48	5.29e+05	0.86	y	29:34	1.10	34.9		-	-	*	Co-elute PCB 75		
PCB-75	5.29e+05	0.86	y	29:34	1.10	34.9		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.07	*		496	680	0.832			
PCB-62	*	*	n	NotFnd	1.19	*		496	680	0.752			
PCB-44	2.30e+06	0.79	y	30:16	0.81	207		-	-	*			
PCB-42	8.65e+05	0.84	y	30:31	1.08	58.2		-	-	*	Co-elute PCB 59		
PCB-59	8.65e+05	0.84	y	30:31	1.08	58.2		-	-	*	Co-elute PCB 42		
PCB-72	2.00e+06	0.79	y	31:09	1.15	126		-	-	*	Co-elute PCB 41/71/64		
PCB-41	2.00e+06	0.79	y	31:09	1.15	126		-	-	*	Co-elute PCB 72/71/64		
PCB-71	2.00e+06	0.79	y	31:09	1.15	126		-	-	*	Co-elute PCB 72/41/64		
PCB-64	2.00e+06	0.79	y	31:09	1.15	126		-	-	*	Co-elute PCB 72/41/71		
PCB-68	*	*	n	NotFnd	1.26	*		496	680	0.708			
PCB-40	6.19e+04	0.80	y	31:29	0.71	6.38		-	-	*			
PCB-57	*	*	n	NotFnd	1.11	*		496	680	0.803			
PCB-67	1.70e+05	0.86	y	32:10	1.10	11.2		-	-	*			
PCB-58	2.85e+04	0.85	y	32:16	1.16	1.79	J	-	-	*			
PCB-63	1.51e+05	0.78	y	32:23	1.17	9.41		-	-	*			
PCB-74	1.71e+06	0.80	y	32:40	1.21	103		-	-	*			
PCB-61	4.67e+06	0.83	y	32:51	1.21	280		-	-	*	Co-elute PCB 70		
PCB-70	4.67e+06	0.83	y	32:51	1.21	280		-	-	*	Co-elute PCB 61		
PCB-76	3.72e+06	0.80	y	33:03	1.21	224		-	-	*	Co-elute PCB 66		
PCB-66	3.72e+06	0.80	y	33:03	1.21	224		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.28	*		496	680	0.698			
PCB-55	1.19e+05	0.72	y	33:32	1.20	7.22		-	-	*			
13C-PCB-54	2.74e+07	0.83	y	25:35	1.17	1520					76.2	2.96e+06	3.62e+06
PCB-104	*	*	n	NotFnd	1.32	*		296	440	0.747			
PCB-96	*	*	n	NotFnd	1.16	*		296	440	0.849			
PCB-103	7.75e+04	1.70	y	31:54	0.99	7.60		-	-	*			
PCB-100	3.84e+04	1.72	y	32:11	1.01	3.67	J	-	-	*			
PCB-94	2.40e+04	1.37	y	32:36	0.85	2.72	J	-	-	*			
PCB-98	*	*	n	NotFnd	1.05	*		296	440	0.935	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.05	*		296	440	0.935	Co-elute PCB 98		
PCB-95	3.85e+06	1.57	y	33:06	0.90	414		-	-	*			
PCB-93	*	*	n	NotFnd	0.83	*		296	440	1.18			
PCB-88	6.56e+05	1.62	y	33:29	0.93	68.1		-	-	*	Co-elute PCB 91		
PCB-91	6.56e+05	1.62	y	33:29	0.93	68.1		-	-	*	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.17	*		296	440	0.841			
13C-PCB-104	2.06e+07	1.63	y	30:04	0.62	2150					108	2.34e+06	1.40e+06
13C-PCB-28	6.06e+07	1.08	y	26:41	2.10	1870					93.7	7.28e+06	6.81e+06
13C-PCB-52	3.07e+07	0.81	y	28:57	-	18.2							

PCB-56	2.50e+06	0.78	y	34:01	1.30	102	-	-	*		Co-elute PCB 60	
PCB-60	2.50e+06	0.78	y	34:01	1.30	102	-	-	*		Co-elute PCB 56	
PCB-79	1.66e+05	0.77	y	35:01	1.27	6.97	-	-	*			
PCB-78	*	*	n	NotFnd	1.21	*	580	750	0.732			
PCB-81	2.88e+05	0.75	y	36:11	1.33	11.7	-	-	*			
13C-PCB-81	3.70e+07	0.82	y	36:11	1.59	2100				105	3.28e+06	3.97e+06
PCB-77	8.86e+05	0.86	y	36:45	1.22	38.3	-	-	*			
13C-PCB-77	3.80e+07	0.81	y	36:44	1.65	2070				104	3.47e+06	4.26e+06
PCB-155	*	*	n	NotFnd	1.16	*	320	188	0.554			
PCB-150	*	*	n	NotFnd	1.06	*	320	188	0.605			
PCB-152	*	*	n	NotFnd	1.01	*	320	188	0.635			
PCB-145	*	*	n	NotFnd	1.05	*	320	188	0.614			
PCB-136	8.52e+05	1.22	y	36:36	1.01	96.7	-	-	*			
PCB-148	*	*	n	NotFnd	0.78	*	320	188	0.824			
PCB-154	1.13e+05	1.23	y	37:10	0.92	14.1	-	-	*			
13C-PCB-155	1.74e+07	1.29	y	34:13	0.86	1830				91.8	2.22e+06	1.72e+06
13C-PCB-111	2.51e+07	1.60	y	36:18	1.18	1900				95.3	3.24e+06	2.02e+06
13C-PCB-101	2.22e+07	1.59	y	34:40	-	16.0						
PCB-84	2.99e+06	1.55	y	34:20	0.59	287	-	-	*		Co-elute PCB 92	
PCB-92	2.99e+06	1.55	y	34:20	0.59	287	-	-	*		Co-elute PCB 84	
PCB-89	7.16e+04	1.35	y	34:30	0.58	6.98	-	-	*			
PCB-90	7.68e+06	1.57	y	34:42	0.68	649	-	-	*		Co-elute PCB 101	
PCB-101	7.68e+06	1.57	y	34:42	0.68	649	-	-	*		Co-elute PCB 90	
PCB-113	*	*	n	NotFnd	0.76	*	456	483	0.858			
PCB-99	3.63e+06	1.51	y	35:00	0.72	289	-	-	*			
PCB-119	2.67e+05	1.49	y	35:27	0.81	18.8	-	-	*			
PCB-83	3.75e+05	1.53	y	35:35	0.68	31.4	-	-	*		Co-elute PCB 112	
PCB-112	3.75e+05	1.53	y	35:35	0.68	31.4	-	-	*		Co-elute PCB 83	
PCB-109	*	*	n	NotFnd	0.80	*	456	483	0.807			
PCB-97	2.17e+06	1.62	y	35:56	0.71	174	-	-	*			
PCB-86	*	*	n	NotFnd	0.63	*	456	483	1.03			
PCB-125	3.49e+06	1.57	y	36:11	0.74	269	-	-	*		Co-elute PCB 87/117	
PCB-87	3.49e+06	1.57	y	36:11	0.74	269	-	-	*		Co-elute PCB 125/117	
PCB-117	3.49e+06	1.57	y	36:11	0.74	269	-	-	*		Co-elute PCB 125/87	
PCB-111	1.41e+05	1.54	y	36:20	0.98	8.15	-	-	*		Co-elute PCB 115	
PCB-115	1.41e+05	1.54	y	36:20	0.98	8.15	-	-	*		Co-elute PCB 111	
PCB-85	1.36e+06	1.53	y	36:26	0.67	115	-	-	*		Co-elute PCB 116	
PCB-116	1.36e+06	1.53	y	36:26	0.67	115	-	-	*		Co-elute PCB 85	
PCB-120	*	*	n	NotFnd	0.83	*	456	483	0.783			
PCB-110	1.16e+07	1.56	y	36:49	0.91	727	-	-	*			
PCB-82	7.69e+05	1.49	y	37:24	0.51	86.8	-	-	*			
PCB-124	6.73e+05	1.48	y	38:05	1.10	34.8	-	-	*			
PCB-108	1.15e+06	1.47	y	38:13	1.26	52.3	-	-	*		Co-elute PCB 107	
PCB-107	1.15e+06	1.47	y	38:13	1.26	52.3	-	-	*		Co-elute PCB 108	
PCB-123	2.30e+05	1.53	y	38:23	1.35	10.1	-	-	*			
13C-PCB-123	3.37e+07	1.62	y	38:21	1.45	2000				100	4.50e+06	2.79e+06
PCB-118	1.46e+07	1.60	y	38:33	1.17	681	-	-	*		Co-elute PCB 106	
PCB-106	1.46e+07	1.60	y	38:33	1.17	681	-	-	*		Co-elute PCB 118	
13C-PCB-118	3.65e+07	1.61	y	38:31	1.55	2030				102	4.46e+06	2.84e+06
PCB-114	3.56e+05	1.60	y	39:09	1.18	16.9	-	-	*			
13C-PCB-114	3.58e+07	1.61	y	39:09	1.50	2060				103	4.56e+06	2.74e+06
PCB-122	1.87e+05	1.38	y	39:15	1.24	8.60	-	-	*			
PCB-105	6.62e+06	1.56	y	39:58	1.20	324	-	-	*			
13C-PCB-105	3.41e+07	1.64	y	39:57	1.50	1950				97.9	4.35e+06	2.67e+06

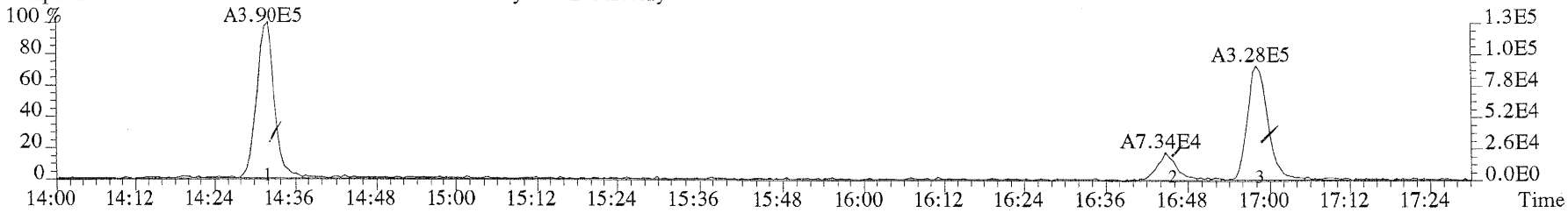
PCB-127	*	*	n	NotFnd	1.10	*	630	610	0.780				
PCB-126	1.90e+05	1.47	y	42:05	1.22	9.28	-	-	*				
13C-PCB-126	3.35e+07	1.63	y	42:05	1.38	2090				105	3.98e+06	2.45e+06	
PCB-151	1.54e+06	1.30	y	37:48	0.82	149	-	-	*				
PCB-135	1.02e+06	1.30	y	38:00	0.78	104	-	-	*				
PCB-144	3.57e+05	1.31	y	38:06	0.96	29.5	-	-	*				
PCB-147	2.15e+05	1.23	y	38:13	0.89	19.2	-	-	*				
PCB-139	7.10e+06	1.26	y	38:28	0.95	595	-	-	*				Co-elute PCB 149
PCB-149	7.10e+06	1.26	y	38:28	0.95	595	-	-	*				Co-elute PCB 139
PCB-140	7.13e+04	1.15	y	38:39	0.91	6.20	-	-	*				
PCB-143	5.22e+05	1.34	y	39:04	0.89	46.5	-	-	*				Co-elute PCB 134
PCB-134	5.22e+05	1.34	y	39:04	0.89	46.5	-	-	*				Co-elute PCB 143
PCB-131	2.94e+05	1.34	y	39:20	0.89	26.3	-	-	*				Co-elute PCB 133
PCB-133	2.94e+05	1.34	y	39:20	0.89	26.3	-	-	*				Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.75	*	624	550	1.49				
PCB-165	1.46e+06	1.28	y	39:43	1.05	111	-	-	*				Co-elute PCB 146
PCB-146	1.46e+06	1.28	y	39:43	1.05	111	-	-	*				Co-elute PCB 165
PCB-161	3.33e+06	1.27	y	39:58	1.00	265	-	-	*				Co-elute PCB 132
PCB-132	3.33e+06	1.27	y	39:58	1.00	265	-	-	*				Co-elute PCB 161
PCB-153	9.09e+06	1.32	y	40:06	1.01	715	-	-	*				
PCB-168	*	*	n	NotFnd	1.14	*	624	550	0.979				
PCB-141	1.67e+06	1.27	y	40:48	0.89	149	-	-	*				
PCB-137	6.18e+05	1.19	y	41:09	0.90	54.2	-	-	*				
PCB-130	6.82e+05	1.28	y	41:16	0.75	72.5	-	-	*				
PCB-138	1.25e+07	1.25	y	41:35	1.15	862	-	-	*				Co-elute PCB 163/164
PCB-163	1.25e+07	1.25	y	41:35	1.15	862	-	-	*				Co-elute PCB 138/164
PCB-164	1.25e+07	1.25	y	41:35	1.15	862	-	-	*				Co-elute PCB 138/163
PCB-158	1.71e+06	1.24	y	41:48	1.16	117	-	-	*				Co-elute PCB 160
PCB-160	1.71e+06	1.24	y	41:48	1.16	117	-	-	*				Co-elute PCB 158
PCB-129	5.50e+05	1.37	y	42:03	0.75	58.5	-	-	*				
PCB-166	7.23e+04	1.17	y	42:30	1.07	5.35	-	-	*				
PCB-159	9.63e+04	1.40	y	42:51	1.16	6.60	-	-	*				
PCB-128	2.42e+06	1.24	y	43:04	0.97	198	-	-	*				Co-elute PCB 162
PCB-162	2.42e+06	1.24	y	43:04	0.97	198	-	-	*				Co-elute PCB 128
PCB-167	6.49e+05	1.25	y	43:27	1.06	49.4	-	-	*				
13C-PCB-167	2.48e+07	1.29	y	43:26	1.15	1860				93.2	2.80e+06	2.23e+06	
PCB-156	1.75e+06	1.31	y	44:41	1.12	127	-	-	*				
13C-PCB-156	2.45e+07	1.28	y	44:40	1.10	1920				96.0	2.86e+06	2.20e+06	
PCB-157	4.57e+05	1.27	y	44:56	1.13	31.4	-	-	*				
13C-PCB-157	2.57e+07	1.29	y	44:54	1.15	1930				96.8	3.01e+06	2.31e+06	
PCB-169	*	*	n	NotFnd	1.09	*	624	550	0.973				
13C-PCB-169	2.55e+07	1.27	y	46:48	1.08	2030				102	3.12e+06	2.42e+06	

FAL ID: 11719-003-0001-SA Filename: 30JUL18Z Sam:7 Acquired: 30-JUL-18 16:11:06 ICal: DAILY209FAL4-7-30-18
Client ID: LDW-Y1-IN-ENR-CC-CORE ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 5.010

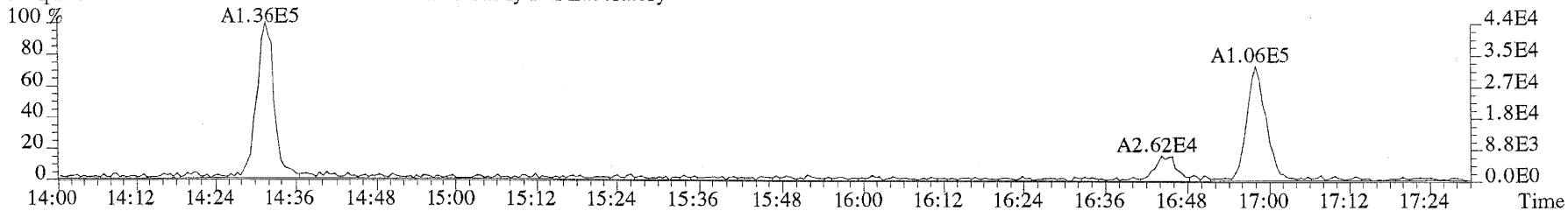
PCB-188	*	*	n	NotFnd	1.14	*		432	368	0.831			
13C-PCB-188	1.89e+07	1.08	y	39:42	0.92	1770					88.8	2.20e+06	2.01e+06
PCB-184	*	*	n	NotFnd	1.18	*		432	368	0.735			
PCB-179	6.94e+05	1.05	y	40:52	1.10	67.1		-	-	*			
PCB-176	2.13e+05	1.08	y	41:19	1.07	21.1		-	-	*			
PCB-186	*	*	n	NotFnd	1.10	*		432	368	0.789			
PCB-178	2.53e+05	1.06	y	42:21	0.79	33.8		-	-	*			
PCB-175	5.83e+04	0.93	y	42:41	0.83	7.43		-	-	*			
PCB-187	1.63e+06	1.05	y	42:49	0.91	190		-	-	*		Co-elute PCB 182	
PCB-182	1.63e+06	1.05	y	42:49	0.91	190		-	-	*		Co-elute PCB 187	
PCB-183	7.78e+05	1.10	y	43:09	0.88	93.6		-	-	*			
PCB-185	1.45e+05	1.18	y	43:47	0.85	18.1		-	-	*			
PCB-174	1.26e+06	1.07	y	44:07	0.82	163		-	-	*			
PCB-181	*	*	n	NotFnd	0.85	*		432	368	1.02			
PCB-177	7.57e+05	1.09	y	44:22	0.76	105		-	-	*			
PCB-171	4.08e+05	0.94	y	44:40	0.81	53.8		-	-	*			
PCB-173	3.55e+04	1.06	y	45:04	0.74	5.08		-	-	*			
PCB-172	2.47e+05	1.07	y	45:27	0.73	36.0		-	-	*			
PCB-192	*	*	n	NotFnd	1.06	*		432	368	0.821			
PCB-180	3.02e+06	1.13	y	45:49	1.02	313		-	-	*			
PCB-193	1.98e+05	0.95	y	45:59	1.10	19.1		-	-	*			
PCB-191	9.55e+04	0.97	y	46:12	1.01	10.1		-	-	*			
PCB-170	1.50e+06	1.08	y	47:06	0.75	213		-	-	*			
PCB-190	3.98e+05	1.08	y	47:14	0.98	43.0		-	-	*			
PCB-189	9.06e+04	1.05	y	48:28	1.12	8.61		-	-	*			
13C-PCB-189	1.87e+07	1.08	y	48:27	0.82	1960					98.3	2.61e+06	2.44e+06
PCB-202	1.13e+05	0.91	y	44:49	1.01	18.3		-	-	*			
PCB-201	7.11e+04	0.77	y	45:16	0.99	11.7		-	-	*			
PCB-204	*	*	n	NotFnd	0.96	*		172	208	0.700			
PCB-197	2.36e+04	0.89	y	45:39	1.06	3.65	J	-	-	*			
PCB-200	6.02e+04	0.87	y	46:25	0.98	10.0		-	-	*			
PCB-198	1.55e+04	0.90	y	47:37	0.72	3.55	J	-	-	*			
PCB-199	4.23e+05	0.85	y	47:42	0.78	89.2		-	-	*			
PCB-203	4.92e+05	0.93	y	47:57	0.82	98.1		-	-	*		Co-elute PCB 196	
PCB-196	4.92e+05	0.93	y	47:57	0.82	98.1		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.22e+07	0.93	y	44:48	0.59	1790					89.7	1.38e+06	1.43e+06
13C-PCB-178	1.39e+07	1.10	y	42:20	0.65	1830					91.9	1.71e+06	1.53e+06
13C-PCB-138	2.31e+07	1.30	y	41:34	-	15.8							
PCB-195	3.63e+05	0.94	y	49:03	0.79	29.3		-	-	*			
PCB-194	1.09e+06	0.87	y	49:52	0.85	81.1		-	-	*			
PCB-205	7.74e+04	0.90	y	50:07	1.15	4.29		-	-	*			
13C-PCB-205	3.14e+07	0.92	y	50:06	1.30	1760					88.3	4.97e+06	5.51e+06
PCB-208	1.16e+05	1.44	y	49:09	1.05	8.92		-	-	*			
13C-PCB-208	2.46e+07	0.81	y	49:08	1.04	1730					86.5	3.64e+06	4.56e+06
PCB-207	5.90e+04	1.25	y	49:26	1.07	5.04		-	-	*			
PCB-206	3.42e+05	1.28	y	51:18	1.04	34.1		-	-	*			
13C-PCB-206	1.93e+07	0.80	y	51:16	0.86	1640					82.1	2.52e+06	3.20e+06
PCB-209	1.51e+05	1.03	y	52:30	1.10	13.0		-	-	*			
13C-PCB-209	2.10e+07	1.23	y	52:28	0.98	1580					79.0	3.77e+06	3.03e+06
13C-PCB-194	2.73e+07	0.91	y	49:50	-	17.3							

Analyst: [illegible] Date: 8/30/18

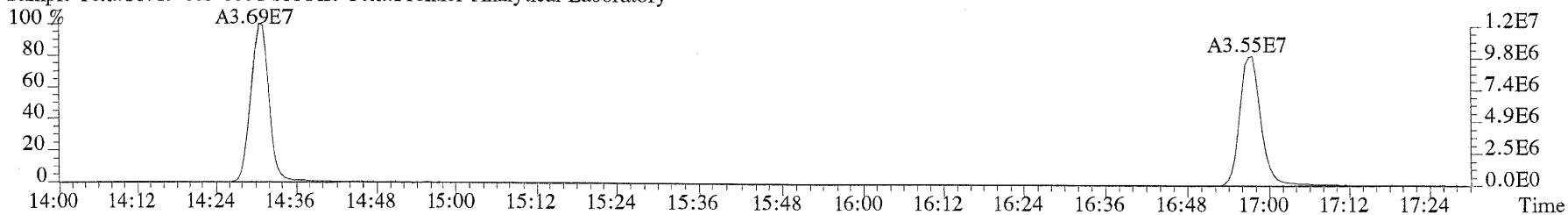
File:30JUL18Z #1-783 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



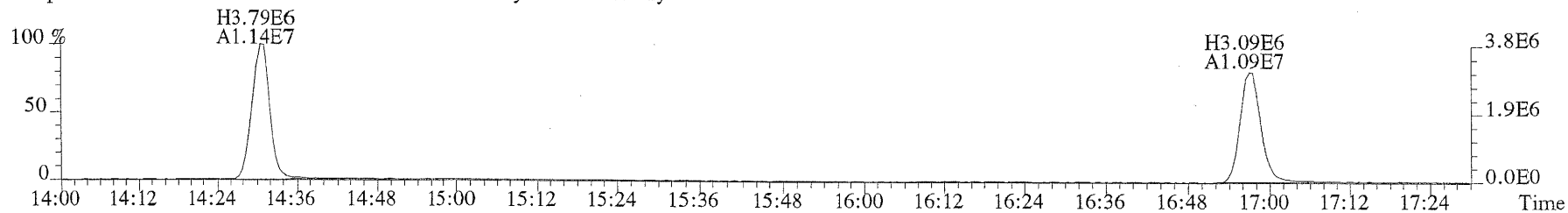
File:30JUL18Z #1-783 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



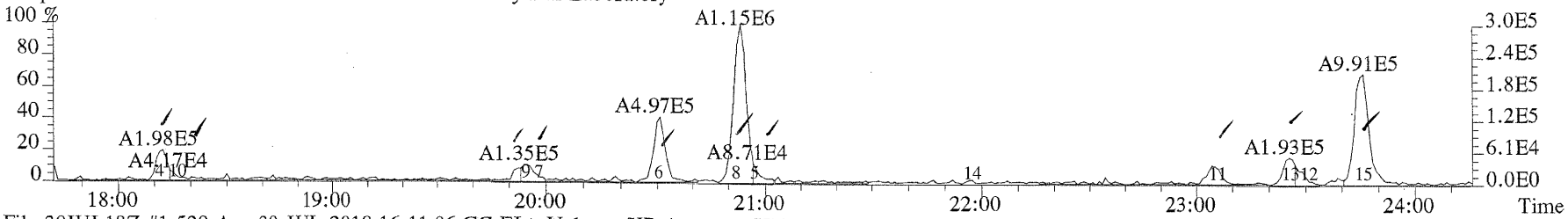
File:30JUL18Z #1-783 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



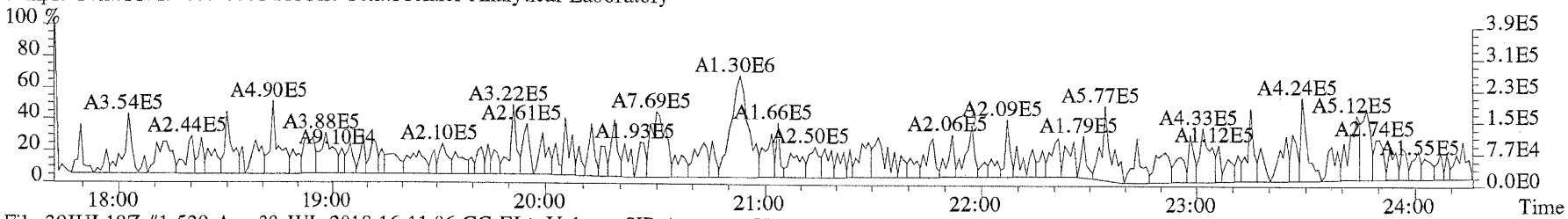
File:30JUL18Z #1-783 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



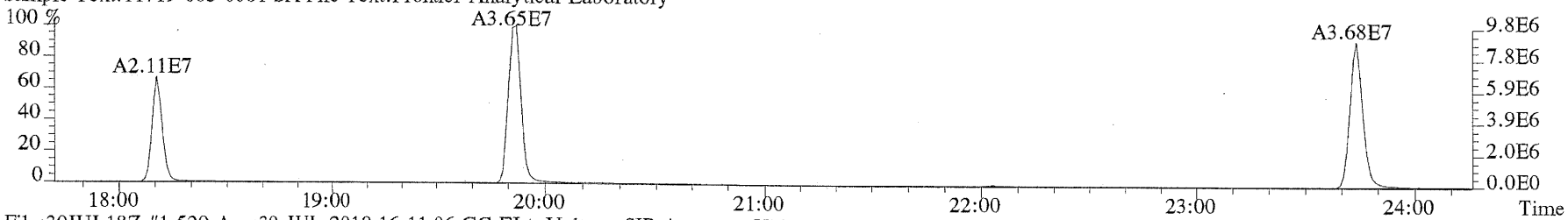
File:30JUL18Z #1-520 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



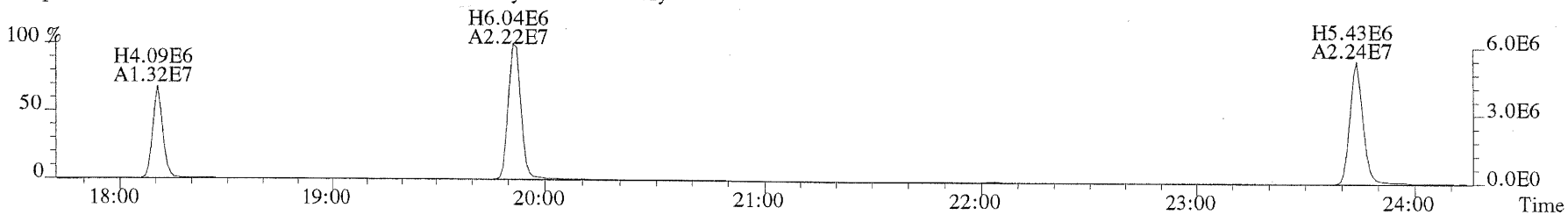
File:30JUL18Z #1-520 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



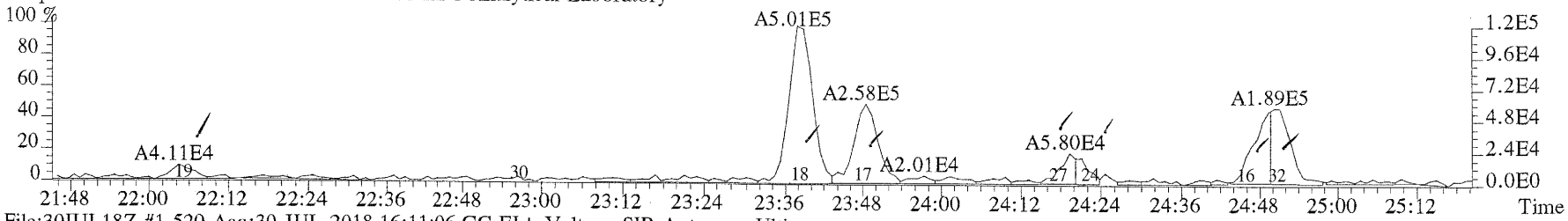
File:30JUL18Z #1-520 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



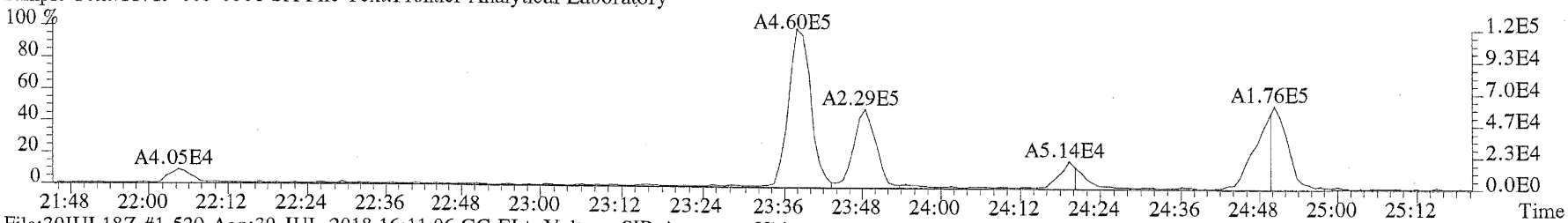
File:30JUL18Z #1-520 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



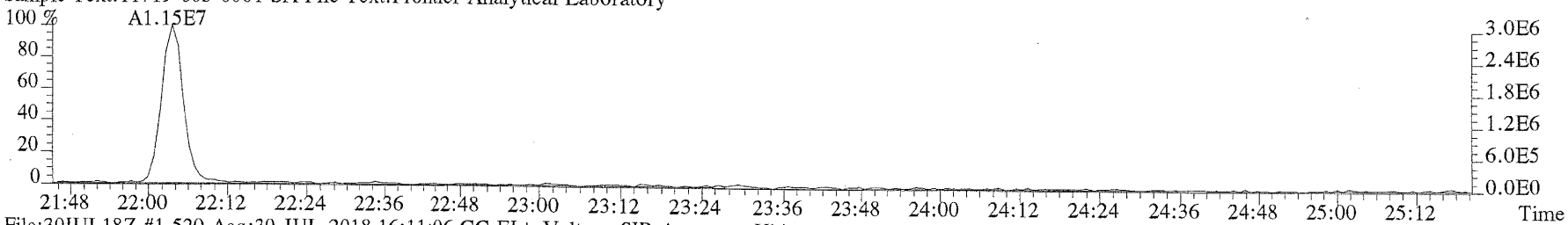
File:30JUL18Z #1-520 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



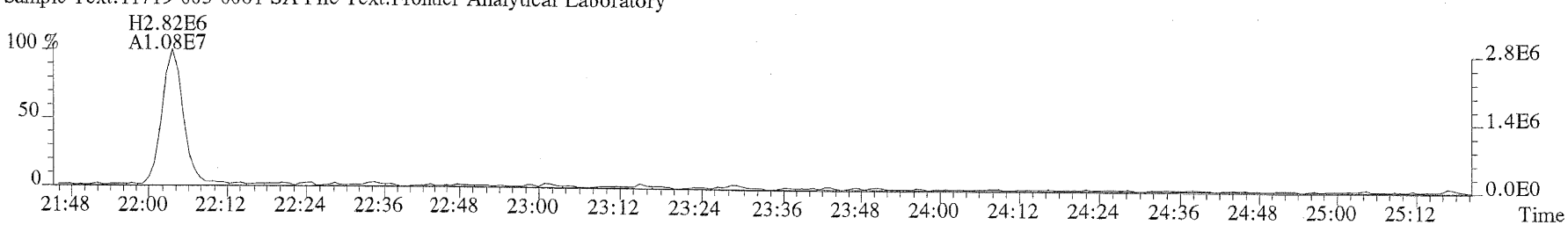
File:30JUL18Z #1-520 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



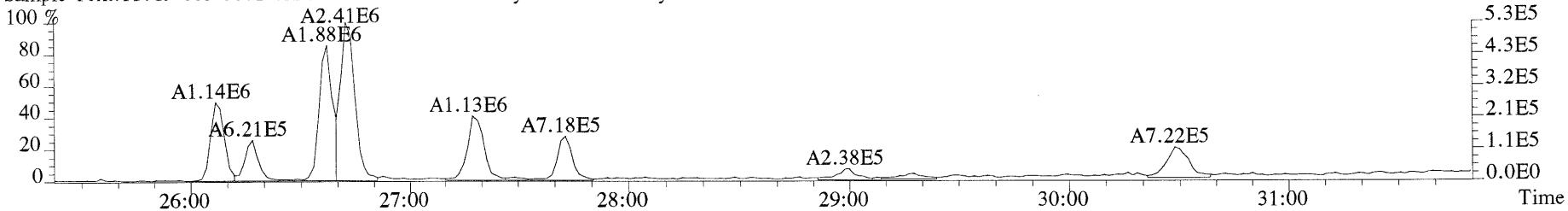
File:30JUL18Z #1-520 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



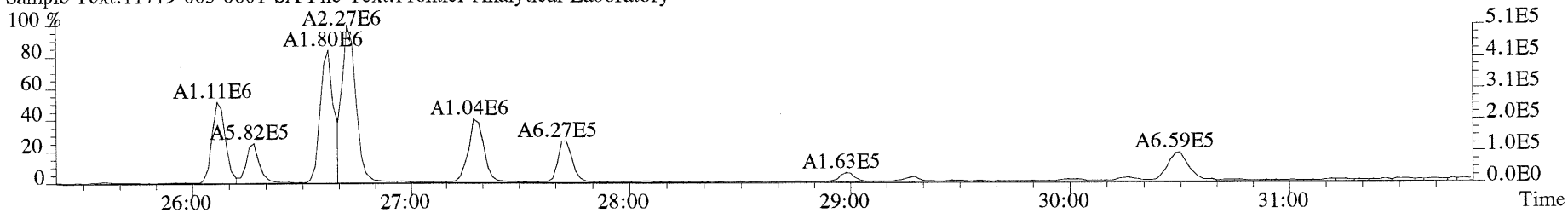
File:30JUL18Z #1-520 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



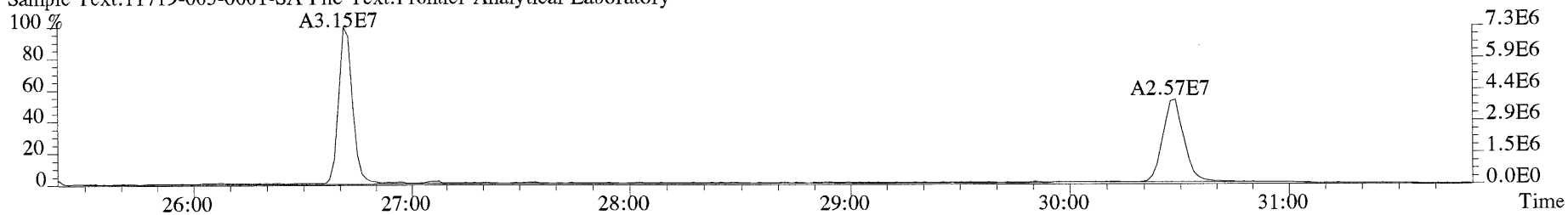
File:30JUL18Z #1-401 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



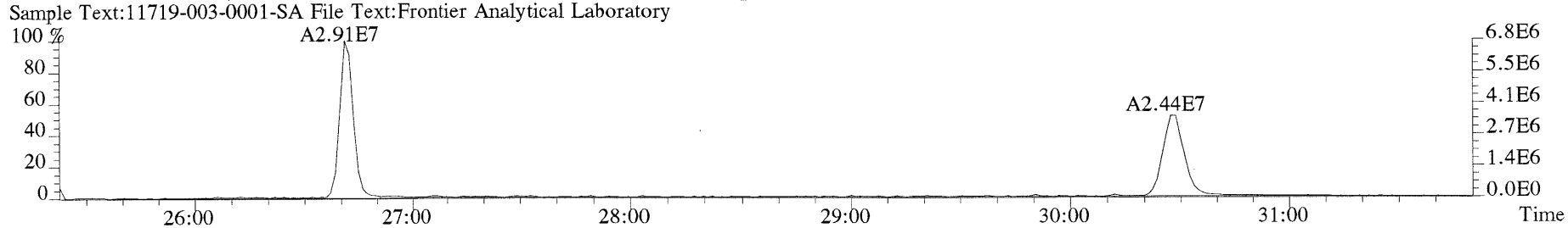
File:30JUL18Z #1-401 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



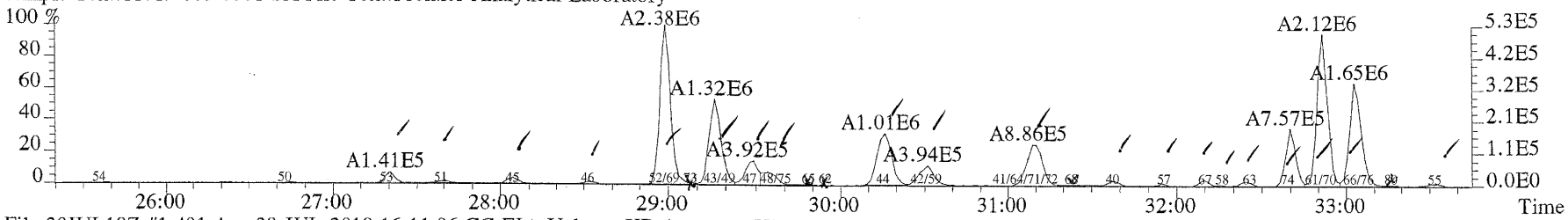
File:30JUL18Z #1-401 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



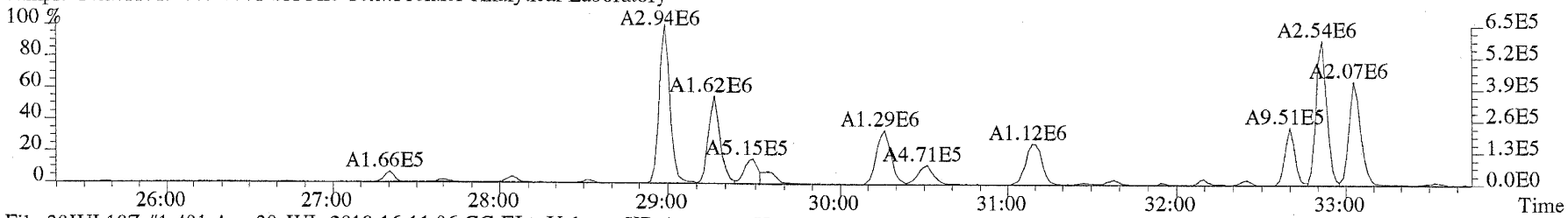
File:30JUL18Z #1-401 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



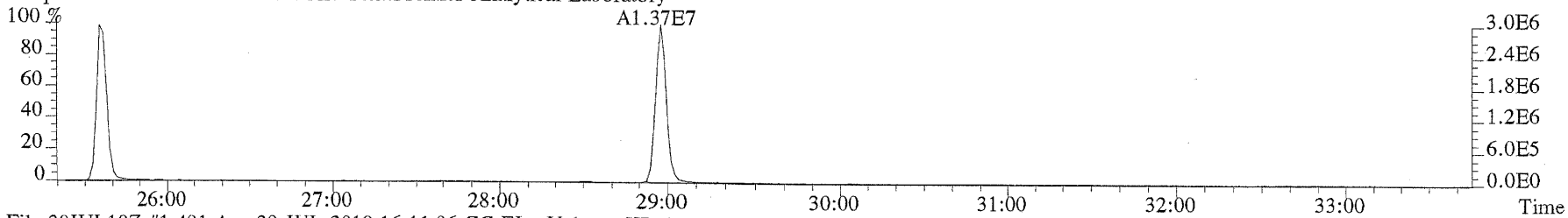
File:30JUL18Z #1-401 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



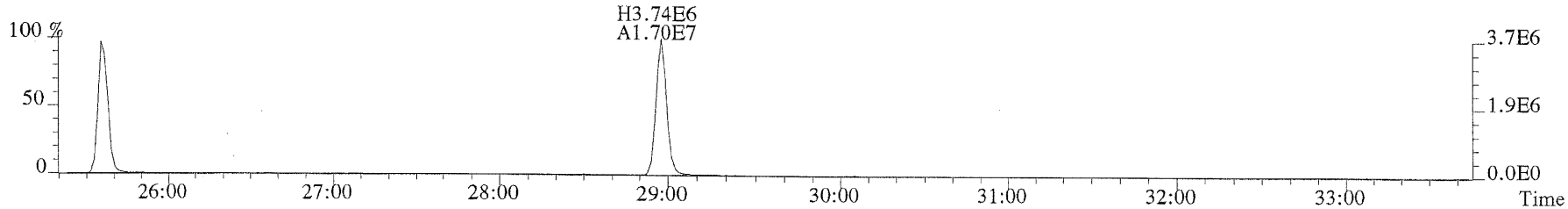
File:30JUL18Z #1-401 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



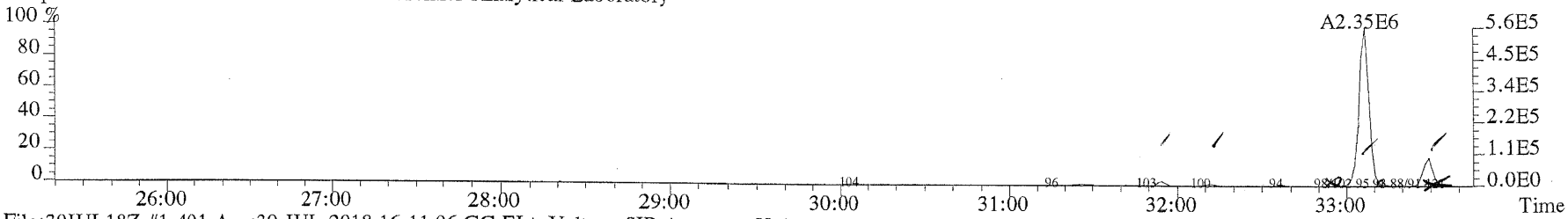
File:30JUL18Z #1-401 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



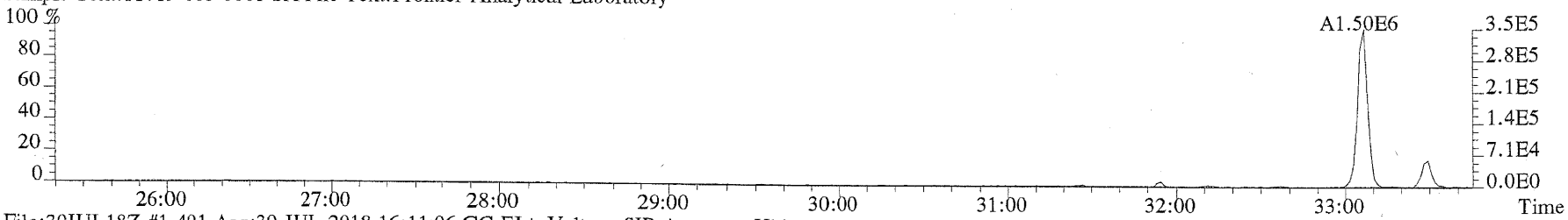
File:30JUL18Z #1-401 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



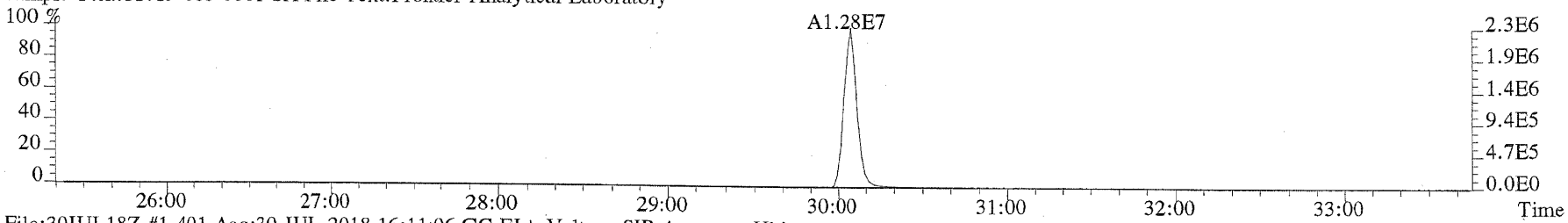
File:30JUL18Z #1-401 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



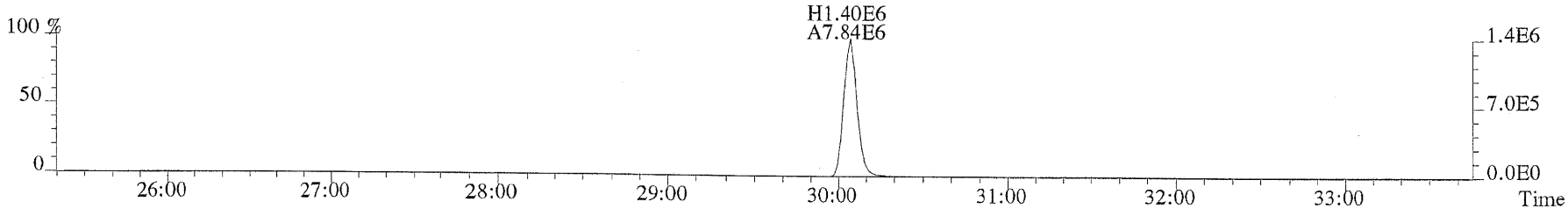
File:30JUL18Z #1-401 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



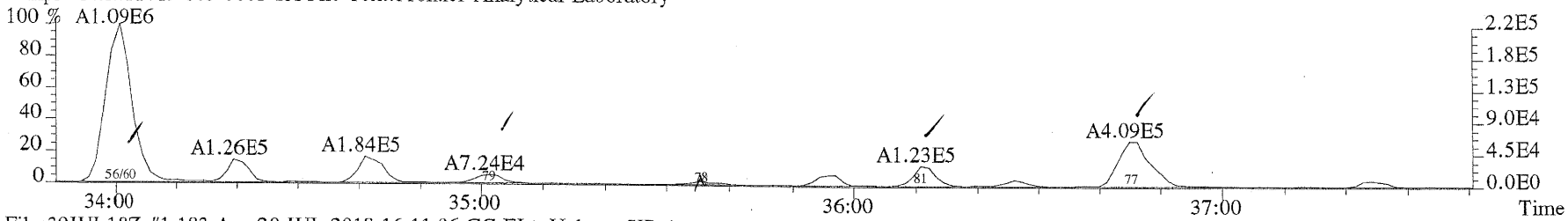
File:30JUL18Z #1-401 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



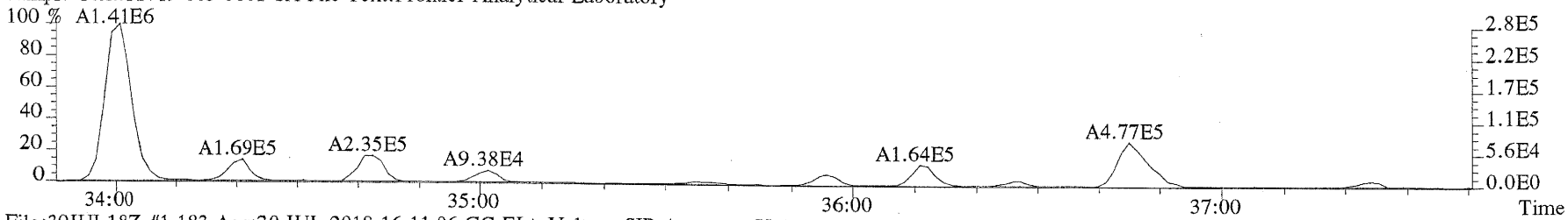
File:30JUL18Z #1-401 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



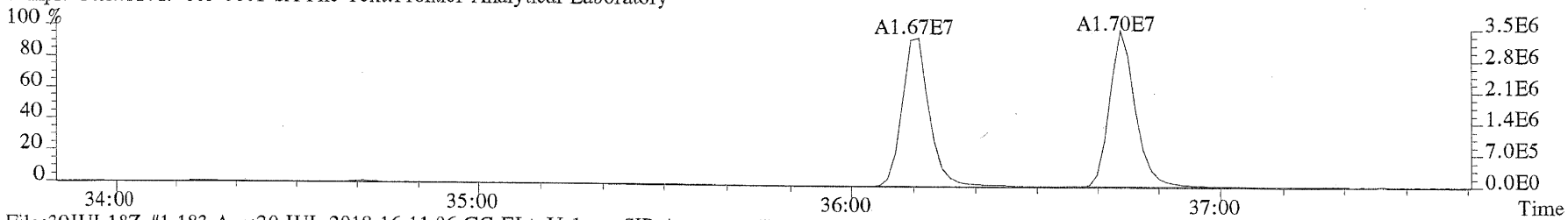
File:30JUL18Z #1-183 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



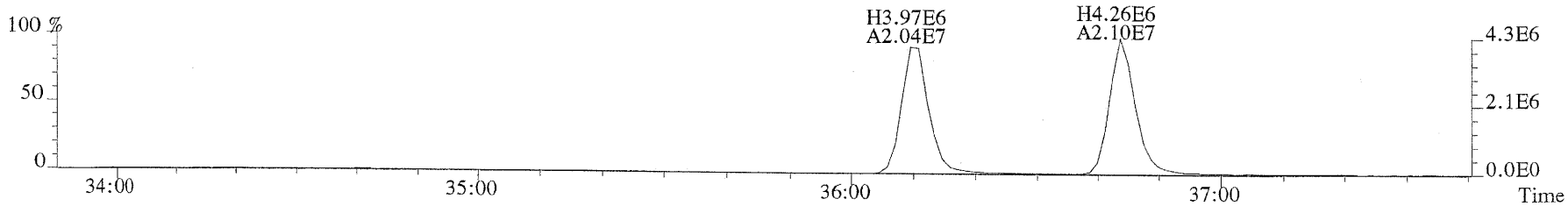
File:30JUL18Z #1-183 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



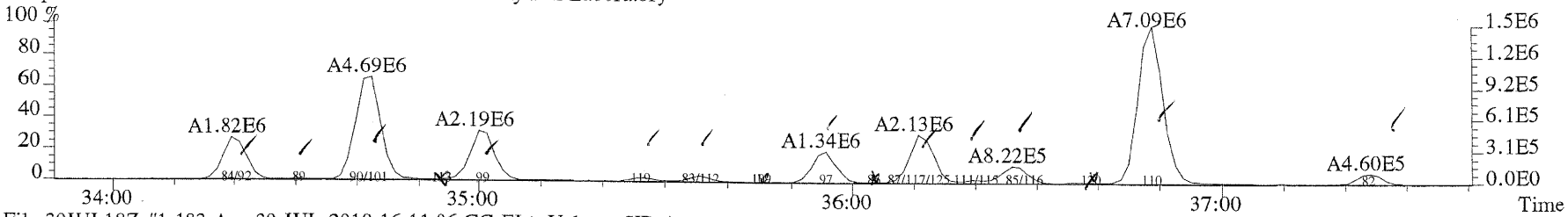
File:30JUL18Z #1-183 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



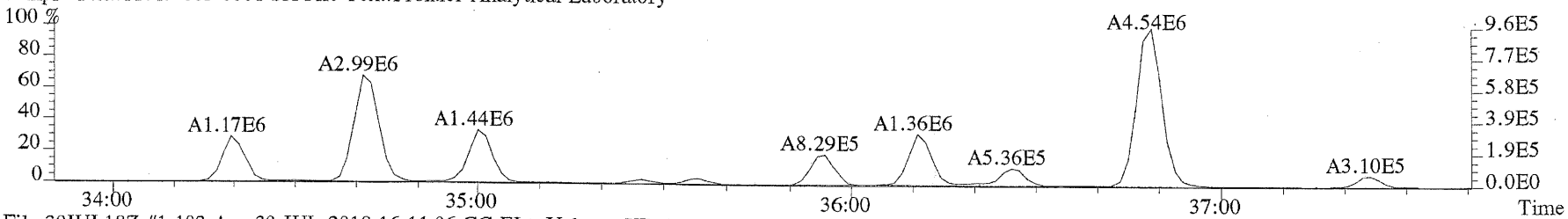
File:30JUL18Z #1-183 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



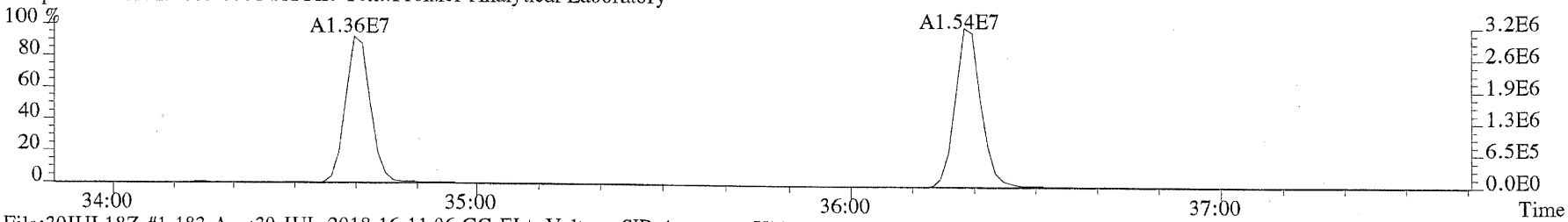
File:30JUL18Z #1-183 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



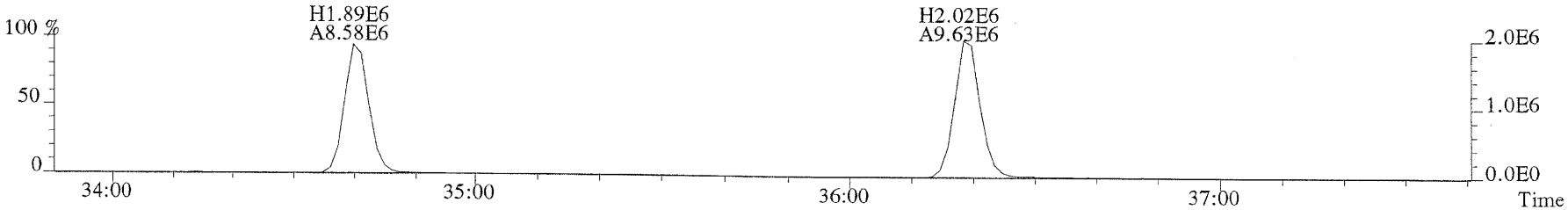
File:30JUL18Z #1-183 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



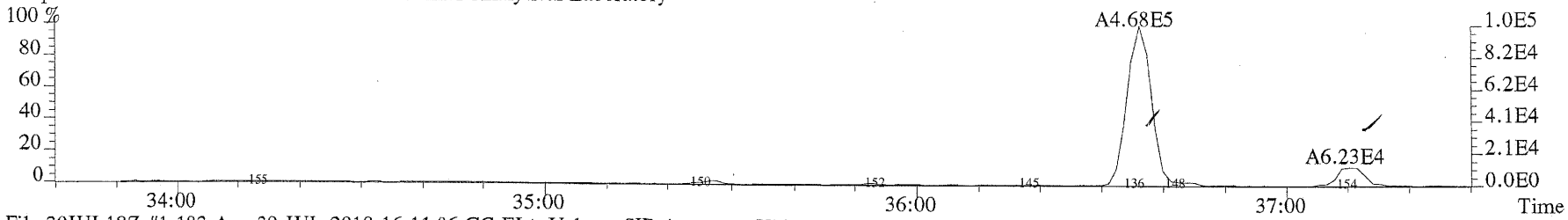
File:30JUL18Z #1-183 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



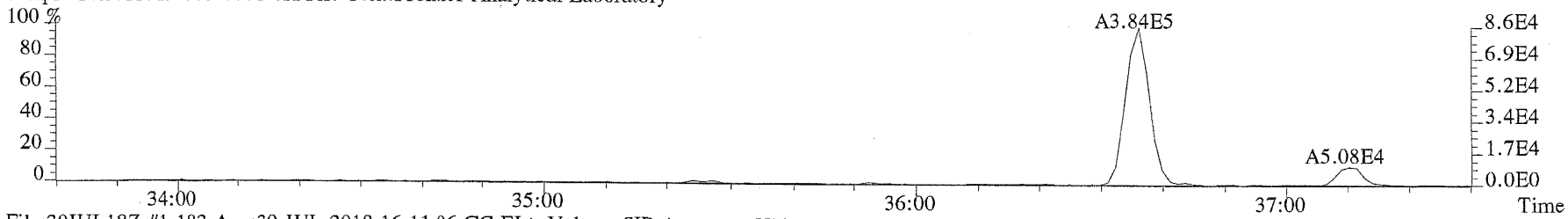
File:30JUL18Z #1-183 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



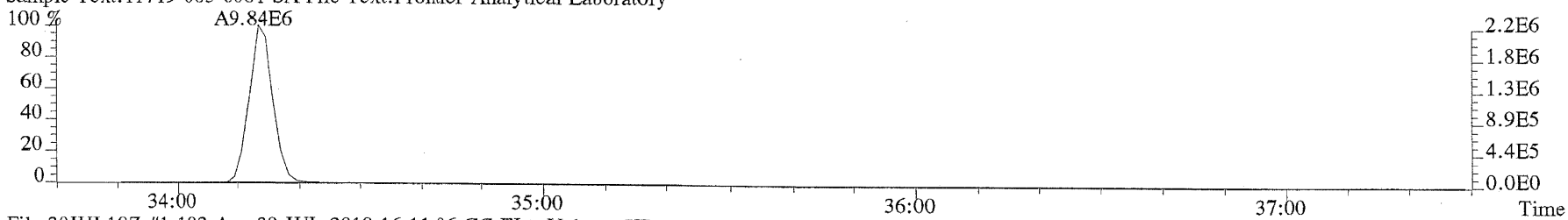
File:30JUL18Z #1-183 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



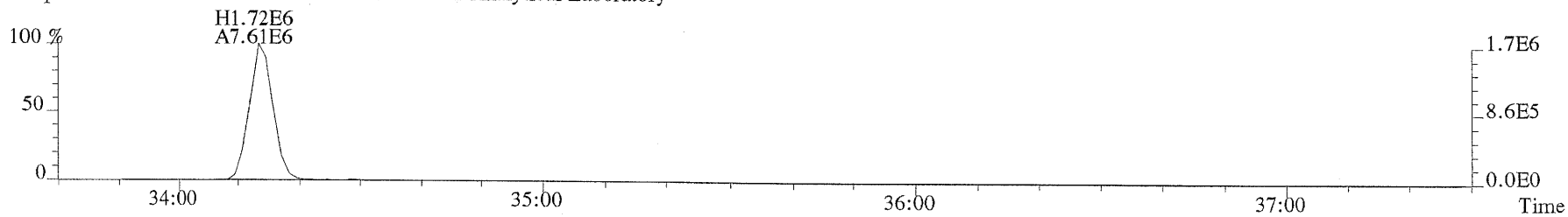
File:30JUL18Z #1-183 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



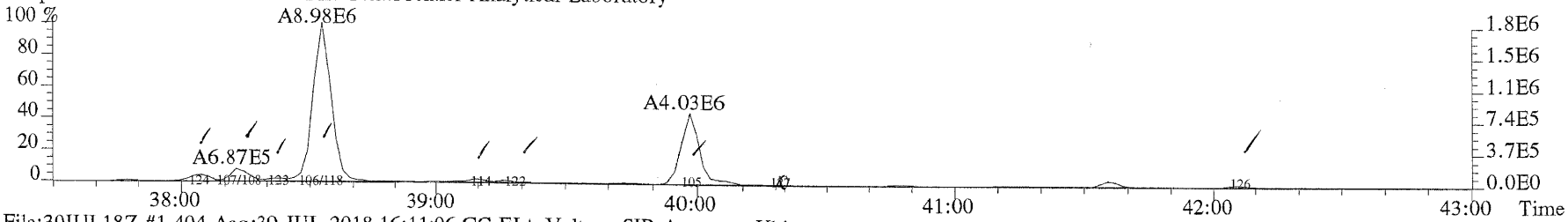
File:30JUL18Z #1-183 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



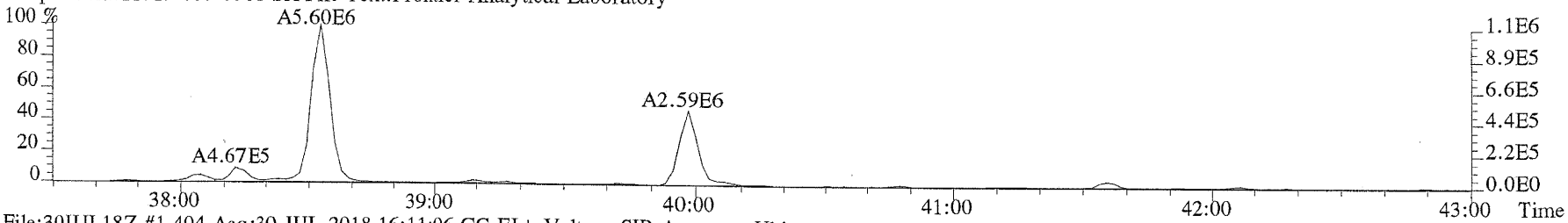
File:30JUL18Z #1-183 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



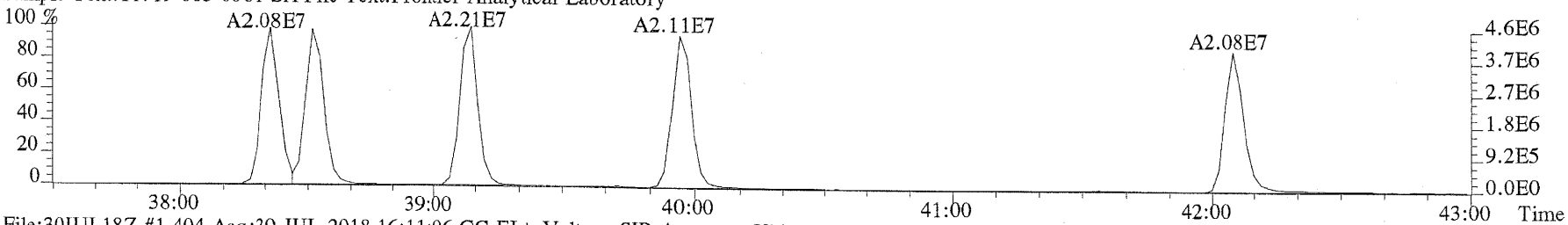
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



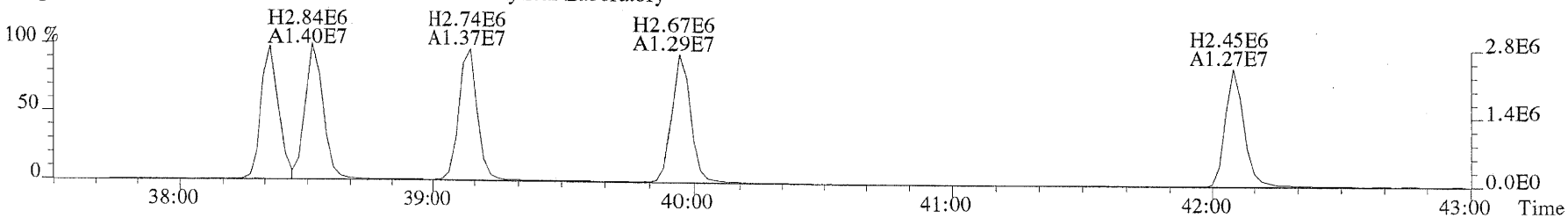
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



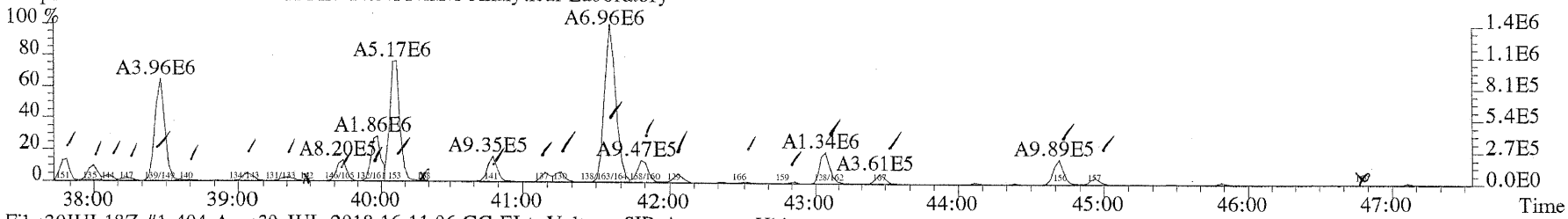
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



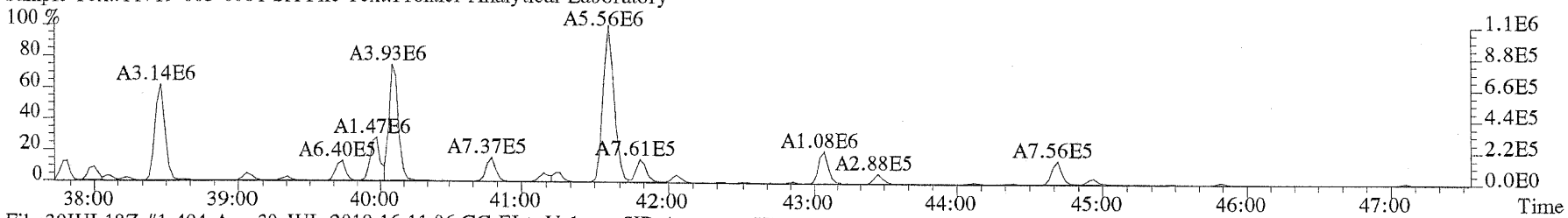
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



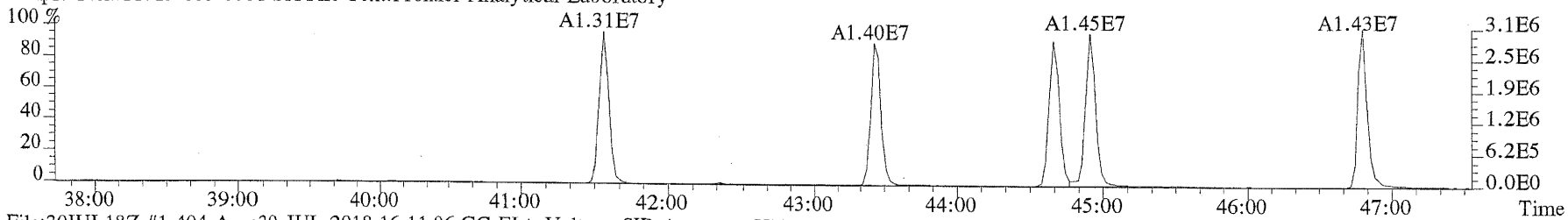
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



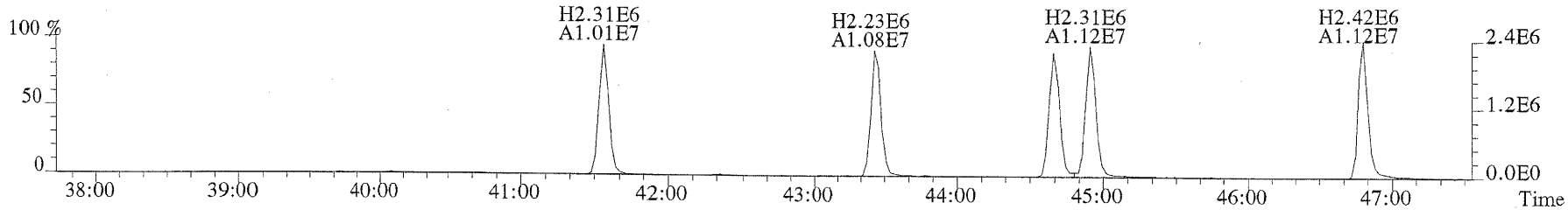
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



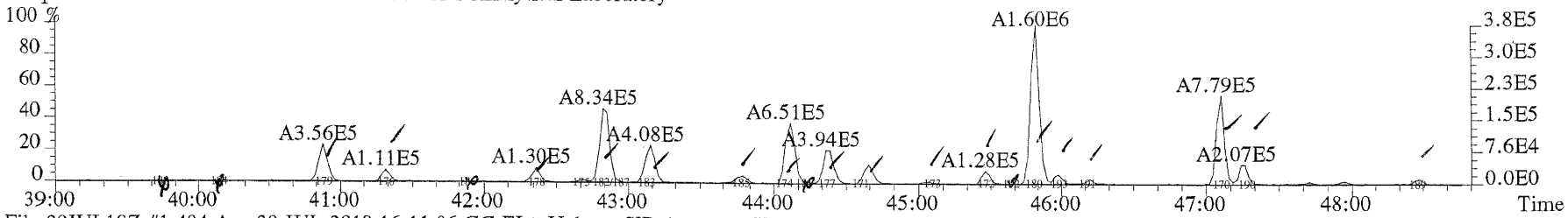
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



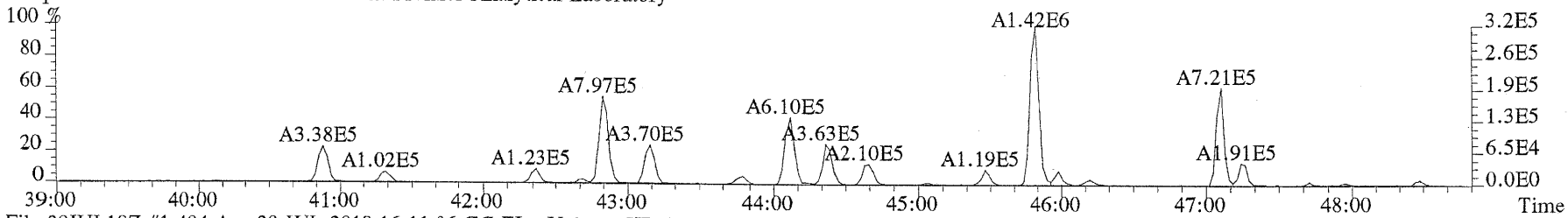
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



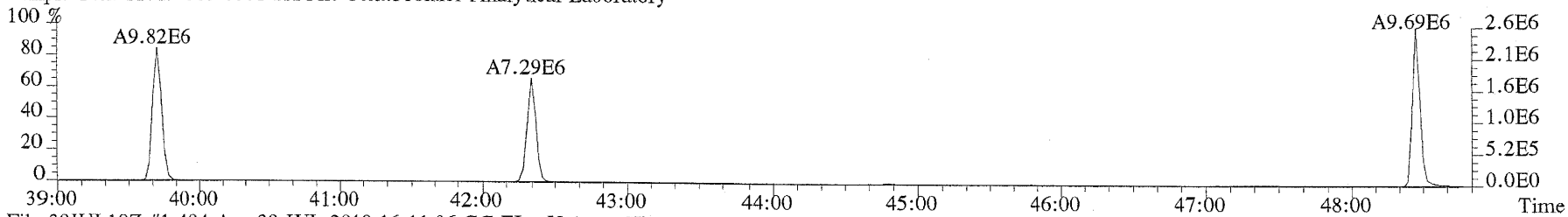
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



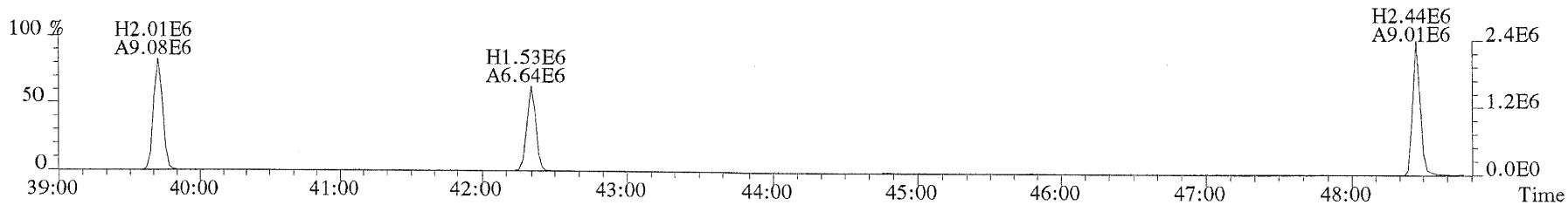
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



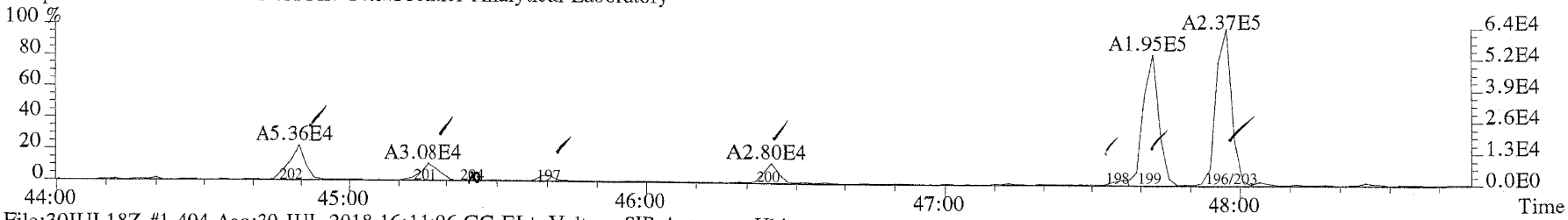
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



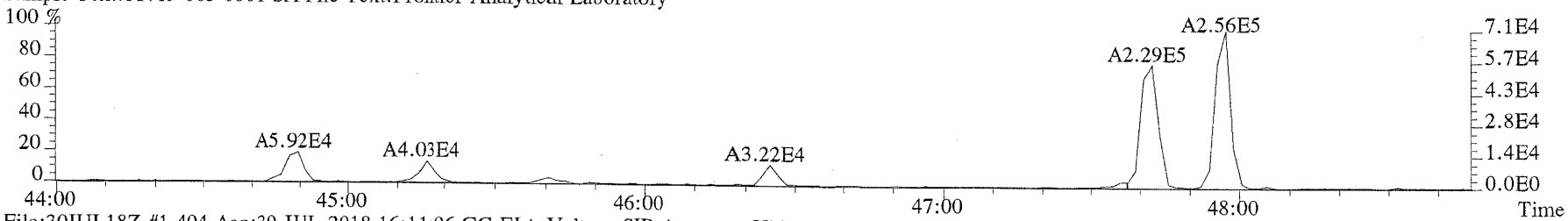
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



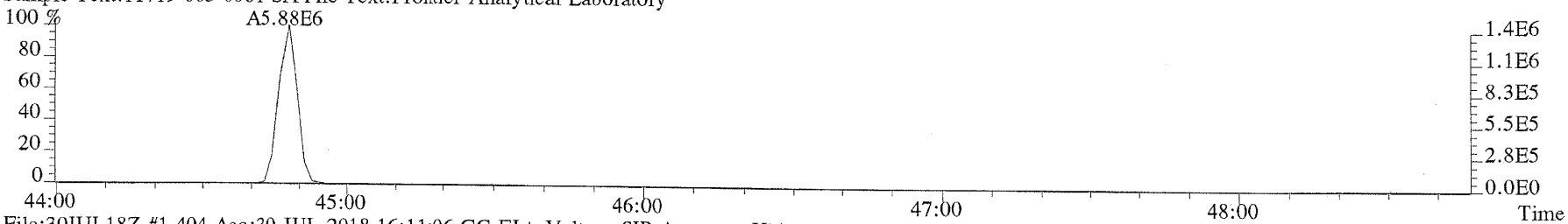
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



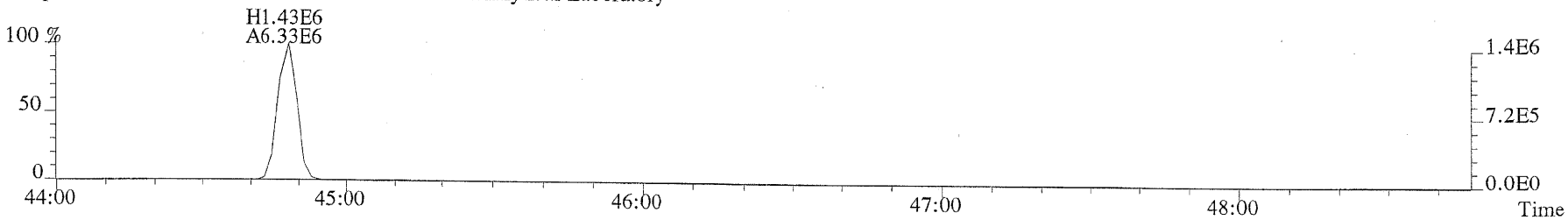
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



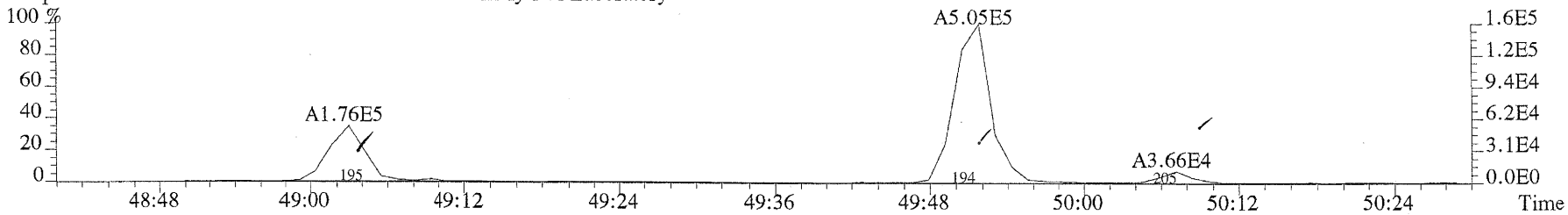
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



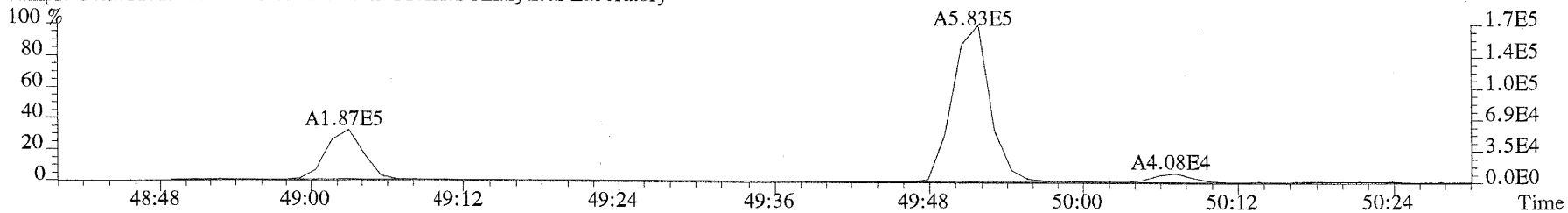
File:30JUL18Z #1-404 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



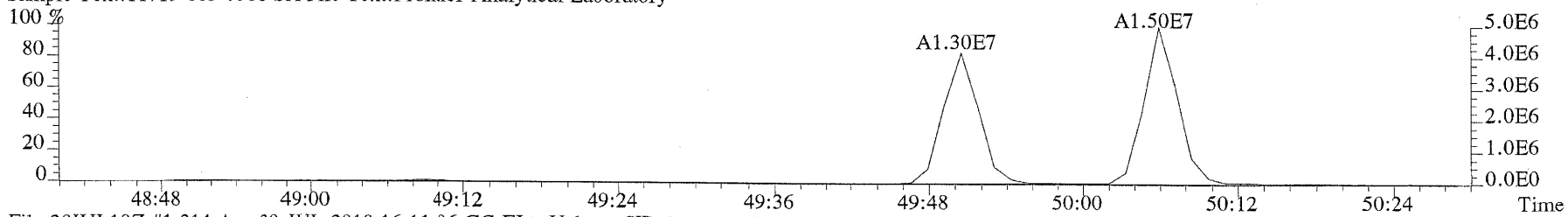
File:30JUL18Z #1-314 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



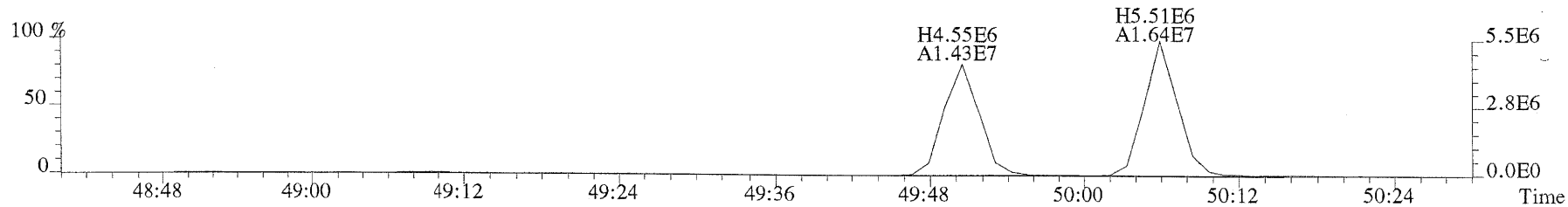
File:30JUL18Z #1-314 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



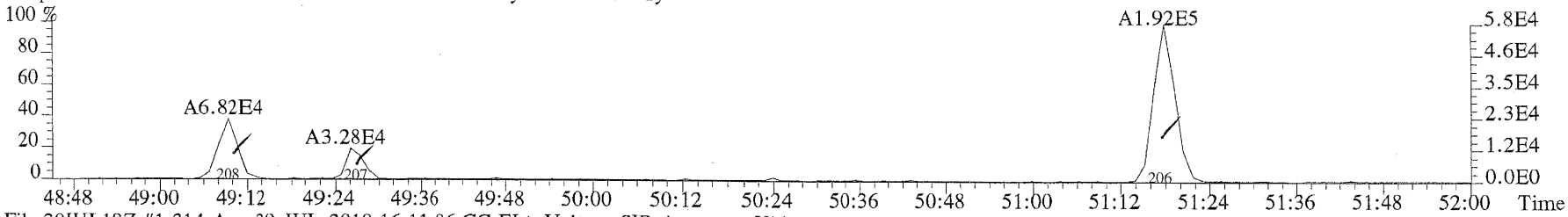
File:30JUL18Z #1-314 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



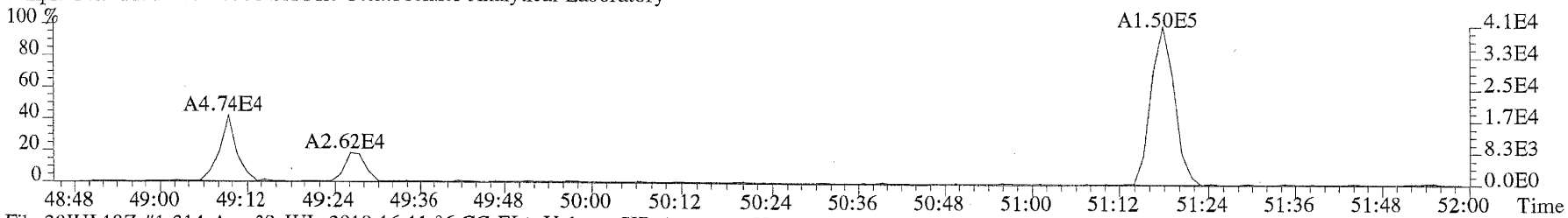
File:30JUL18Z #1-314 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



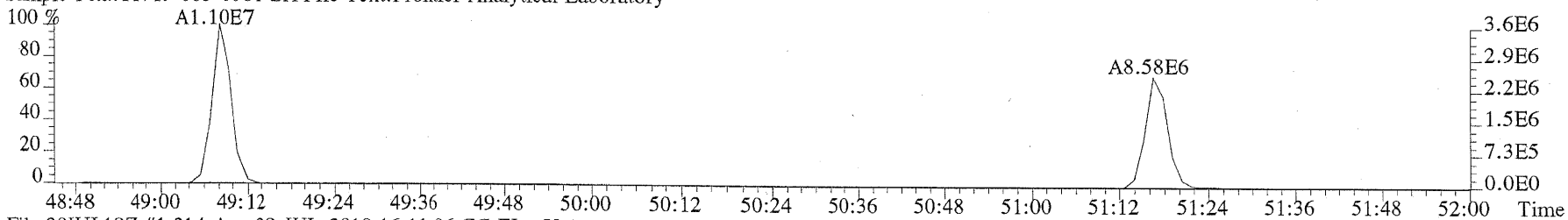
File:30JUL18Z #1-314 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



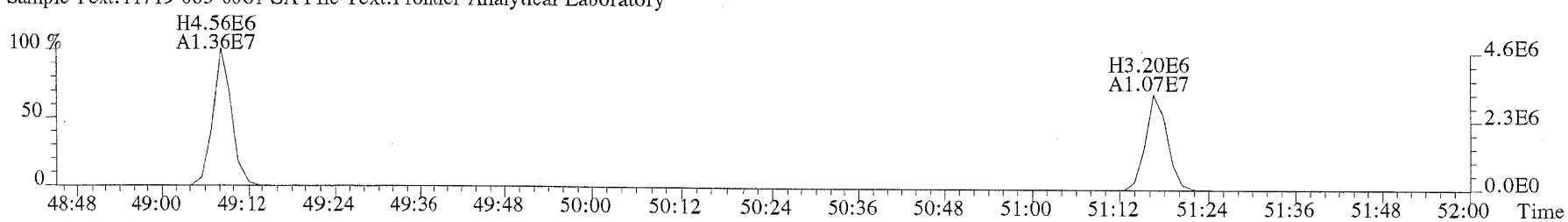
File:30JUL18Z #1-314 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



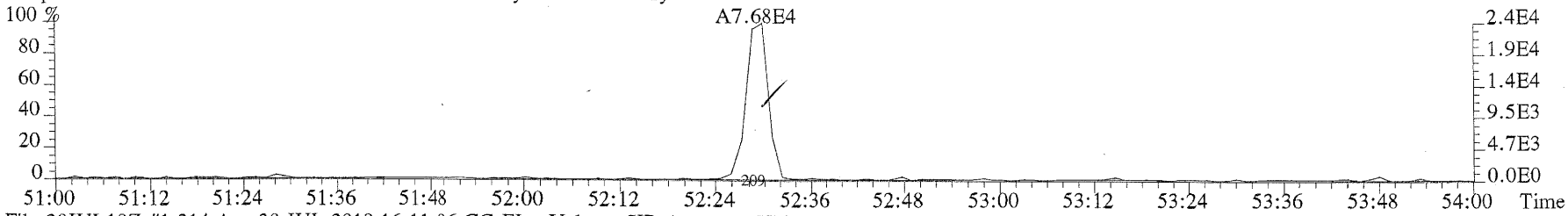
File:30JUL18Z #1-314 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



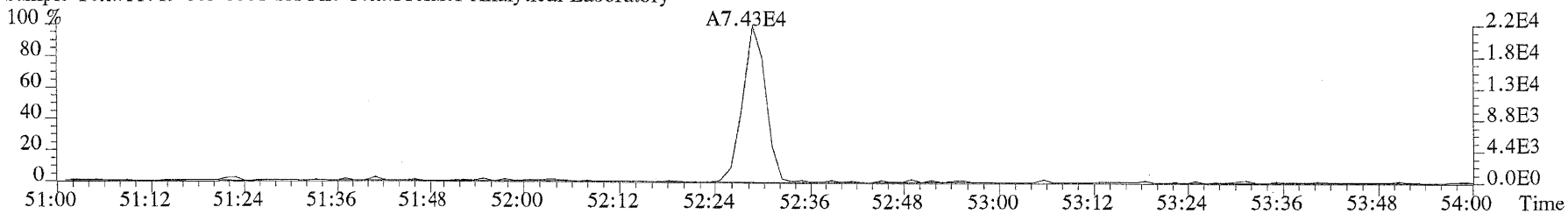
File:30JUL18Z #1-314 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



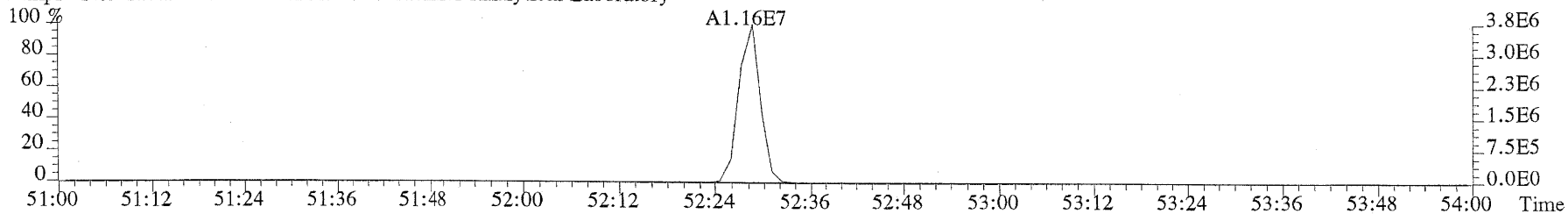
File:30JUL18Z #1-314 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



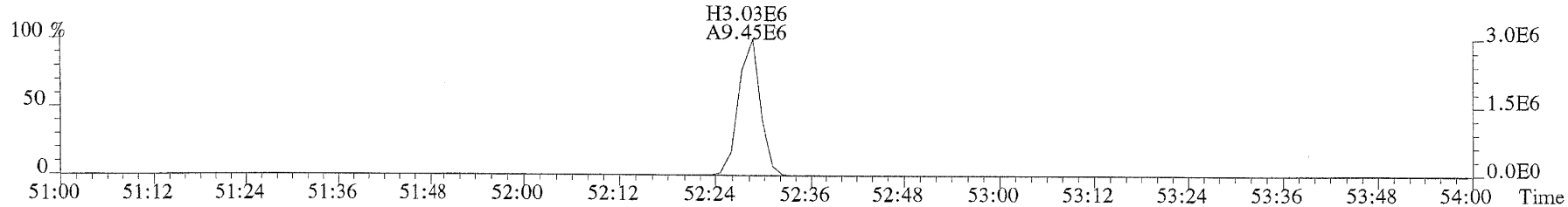
File:30JUL18Z #1-314 Acq:30-JUL-2018 16:11:06 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-003-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-314 Acq:30-JUL-2018 16:11:06 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:11719-003-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-314 Acq:30-JUL-2018 16:11:06 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:11719-003-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-004-0001-SA Filename: 30JUL18Z Sam:8 Acquired: 30-JUL-18 17:09:53 ICal: DAILY209FAL4-7-30-18
Client ID: LDW-Y1-IN-ENR+AC-CA-CORE ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 5.040

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	5.66e+05	3.12 y	14:31	1.20	13.6		-	-	*			
13C-PCB-1	6.89e+07	3.23 y	14:30	0.92	1760					88.7	1.76e+07	5.39e+06
PCB-2	6.40e+04	3.38 y	16:45	1.08	1.81	J	-	-	*			
PCB-3	1.84e+05	3.01 y	16:57	1.19	5.07		-	-	*			
13C-PCB-3	6.08e+07	3.30 y	16:56	0.90	1600					80.4	1.40e+07	4.30e+06
PCB-4	4.27e+05	1.43 y	18:11	1.40	12.2		-	-	*			
PCB-10	4.91e+04	1.42 y	18:16	1.27	1.27	J	-	-	*			
13C-PCB-4	4.95e+07	1.61 y	18:10	0.68	1730					87.1	8.91e+06	5.57e+06
PCB-9	1.63e+05	1.49 y	19:54	1.40	3.81	J	-	-	*			
PCB-7	9.54e+04	1.56 y	19:55	1.49	2.09	J	-	-	*			
PCB-6	5.28e+05	1.58 y	20:30	1.40	12.3		-	-	*			
PCB-8	1.08e+06	1.53 y	20:52	1.37	25.7		-	-	*			
PCB-5	1.24e+05	1.43 y	20:55	1.45	2.80	J	-	-	*			
PCB-14	*	* n	NotFnd	1.34	*		610	1380	0.470			
PCB-11	2.99e+05	1.65 y	23:04	1.29	7.56		-	-	*			
PCB-13	1.38e+05	1.70 y	23:25	1.33	3.40	J	-	-	*			
PCB-12	9.79e+04	1.43 y	23:26	1.41	2.26	J	-	-	*			
PCB-15	7.12e+05	1.60 y	23:44	1.33	14.8		-	-	*			
13C-PCB-15	7.20e+07	1.64 y	23:43	1.00	1710					86.0	1.04e+07	6.28e+06
PCB-19	7.93e+04	1.13 y	22:04	1.21	4.23		-	-	*			
PCB-30	*	* n	NotFnd	1.67	*		710	708	0.523			
PCB-18	6.03e+05	1.12 y	23:37	1.17	33.1		-	-	*			
PCB-17	2.78e+05	1.18 y	23:47	1.28	14.0		-	-	*			
PCB-27	6.03e+04	1.12 y	24:18	1.57	2.47	J	-	-	*			
PCB-24	6.33e+04	1.18 y	24:19	1.72	2.37	J	-	-	*			
PCB-16	1.34e+05	1.05 y	24:47	1.40	6.15		-	-	*			
PCB-32	2.58e+05	1.13 y	24:49	1.46	11.3		-	-	*			
13C-PCB-19	3.09e+07	1.09 y	22:02	0.41	1760					88.8	4.16e+06	3.90e+06
13C-PCB-9	8.40e+07	1.66 y	19:51	-	22.8							
PCB-34	*	* n	NotFnd	1.28	*		720	650	0.546			
PCB-23	*	* n	NotFnd	1.27	*		720	650	0.550			
PCB-29	*	* n	NotFnd	1.33	*		720	650	0.528			
PCB-26	9.04e+05	1.10 y	26:07	1.26	21.0		-	-	*			
PCB-25	4.37e+05	1.12 y	26:16	1.59	8.04		-	-	*			
PCB-31	1.63e+06	1.05 y	26:36	1.29	37.0		-	-	*			
PCB-28	2.20e+06	1.07 y	26:42	1.56	41.2		-	-	*			
PCB-20	8.86e+05	1.11 y	27:17	1.33	19.4		-	-	*		Co-elute PCB 21/33	
PCB-21	8.86e+05	1.11 y	27:17	1.33	19.4		-	-	*		Co-elute PCB 20/33	
PCB-33	8.86e+05	1.11 y	27:17	1.33	19.4		-	-	*		Co-elute PCB 20/21	
PCB-22	5.87e+05	1.18 y	27:41	1.35	12.7		-	-	*			
PCB-36	*	* n	NotFnd	1.21	*		720	650	0.580			
PCB-39	*	* n	NotFnd	1.27	*		720	650	0.551			
PCB-38	*	* n	NotFnd	1.28	*		720	650	0.547			
PCB-35	*	* n	NotFnd	1.15	*		720	650	0.609			
PCB-37	5.18e+05	1.18 y	30:28	1.37	11.1		-	-	*			
13C-PCB-37	6.78e+07	1.07 y	30:27	1.82	1980					99.7	5.05e+06	4.64e+06

PCB-54	*	*	n	NotFnd	1.19	*		432	680	0.476			
PCB-50	*	*	n	NotFnd	0.91	*		432	680	0.626			
PCB-53	1.52e+05	0.84	y	27:19	0.92	8.49		-	-	*			
PCB-51	4.73e+04	0.80	y	27:38	0.93	2.59	J	-	-	*			
PCB-45	8.73e+04	0.86	y	28:03	0.78	5.75		-	-	*			
PCB-46	4.14e+04	0.74	y	28:30	0.76	2.79	J	-	-	*			
PCB-52	2.52e+06	0.82	y	28:57	1.06	122		-	-	*	Co-elute PCB 69		
PCB-69	2.52e+06	0.82	y	28:57	1.06	122		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.26	*		432	680	0.451			
PCB-43	1.27e+06	0.81	y	29:15	0.88	73.9		-	-	*	Co-elute PCB 49		
PCB-49	1.27e+06	0.81	y	29:15	0.88	73.9		-	-	*	Co-elute PCB 43		
PCB-47	4.45e+05	0.82	y	29:28	1.14	19.9		-	-	*			
PCB-48	2.08e+05	0.85	y	29:33	1.10	9.63		-	-	*	Co-elute PCB 75		
PCB-75	2.08e+05	0.85	y	29:33	1.10	9.63		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.07	*		432	680	0.528			
PCB-62	*	*	n	NotFnd	1.19	*		432	680	0.477			
PCB-44	1.09e+06	0.76	y	30:14	0.81	68.8		-	-	*			
PCB-42	3.69e+05	0.82	y	30:30	1.08	17.5		-	-	*	Co-elute PCB 59		
PCB-59	3.69e+05	0.82	y	30:30	1.08	17.5		-	-	*	Co-elute PCB 42		
PCB-72	1.06e+06	0.81	y	31:01	1.15	47.0		-	-	*	Co-elute PCB 41/71/64		
PCB-41	1.06e+06	0.81	y	31:01	1.15	47.0		-	-	*	Co-elute PCB 72/71/64		
PCB-71	1.06e+06	0.81	y	31:01	1.15	47.0		-	-	*	Co-elute PCB 72/41/64		
PCB-64	1.06e+06	0.81	y	31:01	1.15	47.0		-	-	*	Co-elute PCB 72/41/71		
PCB-68	3.93e+04	0.82	y	31:14	1.26	1.60	J	-	-	*			
PCB-40	1.25e+05	0.75	y	31:25	0.71	9.09		-	-	*			
PCB-57	2.89e+04	0.81	y	31:45	1.11	1.33	J	-	-	*			
PCB-67	6.17e+04	0.72	y	32:04	1.10	2.88	J	-	-	*			
PCB-58	*	*	n	NotFnd	1.16	*		432	680	0.491			
PCB-63	5.47e+04	0.76	y	32:21	1.17	2.39	J	-	-	*			
PCB-74	6.59e+05	0.84	y	32:36	1.21	28.0		-	-	*			
PCB-61	1.89e+06	0.82	y	32:47	1.21	79.8		-	-	*	Co-elute PCB 70		
PCB-70	1.89e+06	0.82	y	32:47	1.21	79.8		-	-	*	Co-elute PCB 61		
PCB-76	1.54e+06	0.80	y	33:00	1.21	65.6		-	-	*	Co-elute PCB 66		
PCB-66	1.54e+06	0.80	y	33:00	1.21	65.6		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.28	*		432	680	0.443			
PCB-55	6.39e+04	0.85	y	33:27	1.20	2.73	J	-	-	*			
13C-PCB-54	3.88e+07	0.82	y	25:35	1.17	1760					88.5	4.39e+06	5.34e+06
PCB-104	*	*	n	NotFnd	1.32	*		288	288	0.586			
PCB-96	2.18e+04	1.41	y	31:14	1.16	1.60	J	-	-	*			
PCB-103	2.22e+04	1.43	y	31:47	0.99	1.92	J	-	-	*			
PCB-100	*	*	n	NotFnd	1.01	*		288	288	0.763			
PCB-94	*	*	n	NotFnd	0.85	*		288	288	0.906			
PCB-98	*	*	n	NotFnd	1.05	*		288	288	0.734	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.05	*		288	288	0.734	Co-elute PCB 98		
PCB-95	1.74e+06	1.52	y	33:03	0.90	165		-	-	*			
PCB-93	*	*	n	NotFnd	0.83	*		288	288	0.927			
PCB-88	3.13e+05	1.74	y	33:27	0.93	28.6		-	-	*	Co-elute PCB 91		
PCB-91	3.13e+05	1.74	y	33:27	0.93	28.6		-	-	*	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.17	*		288	288	0.660			
13C-PCB-104	2.33e+07	1.65	y	30:03	0.62	1980					100.0	2.29e+06	1.40e+06
13C-PCB-28	8.24e+07	1.11	y	26:41	2.10	2080					105	9.52e+06	8.68e+06
13C-PCB-52	3.74e+07	0.82	y	28:56	-	22.0							

PCB-56	9.09e+05	0.79	y	33:58	1.30	30.4		-	-	*		Co-elute PCB 60
PCB-60	9.09e+05	0.79	y	33:58	1.30	30.4		-	-	*		Co-elute PCB 56
PCB-79	8.45e+04	0.86	y	34:59	1.27	2.90	J	-	-	*		
PCB-78	*	*	n	NotFnd	1.21	*		620	796	0.704		
PCB-81	1.23e+05	0.83	y	36:09	1.33	4.03		-	-	*		
13C-PCB-81	4.55e+07	0.80	y	36:08	1.59	1870					94.0	3.73e+06 4.59e+06
PCB-77	2.14e+05	0.78	y	36:44	1.22	7.65		-	-	*		
13C-PCB-77	4.57e+07	0.80	y	36:42	1.65	1800					90.8	3.68e+06 4.47e+06
PCB-155	*	*	n	NotFnd	1.16	*		304	212	0.435		
PCB-150	*	*	n	NotFnd	1.06	*		304	212	0.475		
PCB-152	*	*	n	NotFnd	1.01	*		304	212	0.499		
PCB-145	*	*	n	NotFnd	1.05	*		304	212	0.483		
PCB-136	3.52e+05	1.29	y	36:35	1.01	29.5		-	-	*		
PCB-148	*	*	n	NotFnd	0.78	*		304	212	0.648		
PCB-154	5.59e+04	1.15	y	37:09	0.92	5.16		-	-	*		
13C-PCB-155	2.35e+07	1.29	y	34:12	0.86	1780					89.9	2.83e+06 2.22e+06
13C-PCB-111	3.42e+07	1.60	y	36:17	1.18	1880					94.7	4.26e+06 2.67e+06
13C-PCB-101	3.05e+07	1.65	y	34:38	-	21.8						
PCB-84	1.31e+06	1.48	y	34:18	0.59	93.0		-	-	*		Co-elute PCB 92
PCB-92	1.31e+06	1.48	y	34:18	0.59	93.0		-	-	*		Co-elute PCB 84
PCB-89	3.05e+04	1.53	y	34:26	0.58	2.21	J	-	-	*		
PCB-90	3.42e+06	1.60	y	34:40	0.68	215		-	-	*		Co-elute PCB 101
PCB-101	3.42e+06	1.60	y	34:40	0.68	215		-	-	*		Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.76	*		611	480	0.779		
PCB-99	1.77e+06	1.59	y	34:59	0.72	105		-	-	*		
PCB-119	1.35e+05	1.72	y	35:24	0.81	7.09		-	-	*		
PCB-83	1.64e+05	1.60	y	35:34	0.68	10.2		-	-	*		Co-elute PCB 112
PCB-112	1.64e+05	1.60	y	35:34	0.68	10.2		-	-	*		Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.80	*		611	480	0.733		
PCB-97	9.45e+05	1.58	y	35:53	0.71	56.2		-	-	*		
PCB-86	*	*	n	NotFnd	0.63	*		611	480	0.936		
PCB-125	1.43e+06	1.58	y	36:09	0.74	81.9		-	-	*		Co-elute PCB 87/117
PCB-87	1.43e+06	1.58	y	36:09	0.74	81.9		-	-	*		Co-elute PCB 125/117
PCB-117	1.43e+06	1.58	y	36:09	0.74	81.9		-	-	*		Co-elute PCB 125/87
PCB-111	1.04e+05	1.39	y	36:18	0.98	4.49		-	-	*		Co-elute PCB 115
PCB-115	1.04e+05	1.39	y	36:18	0.98	4.49		-	-	*		Co-elute PCB 111
PCB-85	5.81e+05	1.58	y	36:25	0.67	36.6		-	-	*		Co-elute PCB 116
PCB-116	5.81e+05	1.58	y	36:25	0.67	36.6		-	-	*		Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.83	*		611	480	0.711		
PCB-110	4.82e+06	1.53	y	36:47	0.91	224		-	-	*		
PCB-82	3.03e+05	1.41	y	37:23	0.51	25.4		-	-	*		
PCB-124	2.43e+05	1.75	y	38:03	1.10	9.35		-	-	*		
PCB-108	4.16e+05	1.63	y	38:13	1.26	14.0		-	-	*		Co-elute PCB 107
PCB-107	4.16e+05	1.63	y	38:13	1.26	14.0		-	-	*		Co-elute PCB 108
PCB-123	8.48e+04	1.64	y	38:21	1.35	2.86	J	-	-	*		
13C-PCB-123	4.37e+07	1.61	y	38:19	1.45	1940					97.7	5.76e+06 3.56e+06
PCB-118	5.42e+06	1.59	y	38:31	1.17	184		-	-	*		Co-elute PCB 106
PCB-106	5.42e+06	1.59	y	38:31	1.17	184		-	-	*		Co-elute PCB 118
13C-PCB-118	4.99e+07	1.66	y	38:31	1.55	2070					105	5.72e+06 3.48e+06
PCB-114	1.28e+05	1.43	y	39:07	1.18	4.54		-	-	*		
13C-PCB-114	4.75e+07	1.65	y	39:07	1.50	2040					103	5.87e+06 3.54e+06
PCB-122	8.12e+04	1.48	y	39:17	1.24	2.77	J	-	-	*		
PCB-105	2.04e+06	1.60	y	39:56	1.20	72.9		-	-	*		
13C-PCB-105	4.63e+07	1.64	y	39:56	1.50	1990					100	5.53e+06 3.33e+06

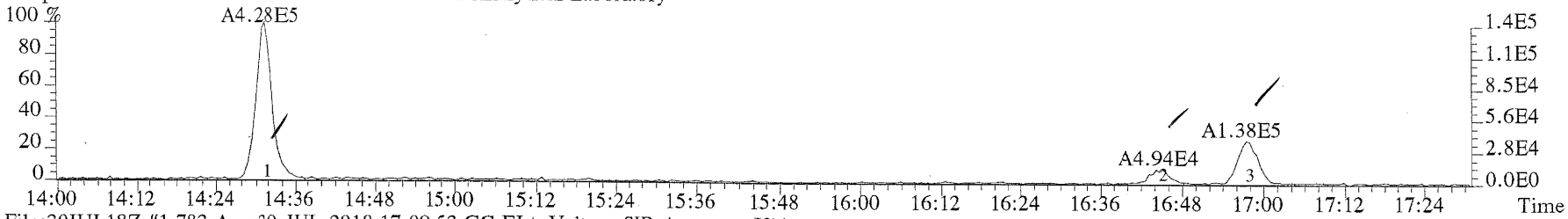
PCB-127	*	*	n	NotFnd	1.10	*		860	770	0.802			
PCB-126	4.47e+04	1.66	y	42:03	1.22	1.80	J	-	-	*			
13C-PCB-126	4.03e+07	1.63	y	42:05	1.38	1880					94.9	4.31e+06	2.67e+06
PCB-151	5.49e+05	1.28	y	37:46	0.82	41.6		-	-	*			
PCB-135	4.60e+05	1.23	y	37:58	0.78	36.6		-	-	*			
PCB-144	1.27e+05	1.22	y	38:05	0.96	8.20		-	-	*			
PCB-147	8.68e+04	1.12	y	38:13	0.89	6.05		-	-	*			
PCB-139	2.70e+06	1.23	y	38:26	0.95	177		-	-	*		Co-elute PCB 149	
PCB-149	2.70e+06	1.23	y	38:26	0.95	177		-	-	*		Co-elute PCB 139	
PCB-140	4.33e+04	1.33	y	38:37	0.91	2.94	J	-	-	*			
PCB-143	2.05e+05	1.27	y	39:04	0.89	14.2		-	-	*		Co-elute PCB 134	
PCB-134	2.05e+05	1.27	y	39:04	0.89	14.2		-	-	*		Co-elute PCB 143	
PCB-131	1.14e+05	1.34	y	39:19	0.89	7.99		-	-	*		Co-elute PCB 133	
PCB-133	1.14e+05	1.34	y	39:19	0.89	7.99		-	-	*		Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.75	*		600	580	1.22			
PCB-165	6.14e+05	1.33	y	39:42	1.05	36.3		-	-	*		Co-elute PCB 146	
PCB-146	6.14e+05	1.33	y	39:42	1.05	36.3		-	-	*		Co-elute PCB 165	
PCB-161	1.12e+06	1.20	y	39:56	1.00	69.8		-	-	*		Co-elute PCB 132	
PCB-132	1.12e+06	1.20	y	39:56	1.00	69.8		-	-	*		Co-elute PCB 161	
PCB-153	3.72e+06	1.27	y	40:05	1.01	228		-	-	*			
PCB-168	*	*	n	NotFnd	1.14	*		600	580	0.803			
PCB-141	6.13e+05	1.29	y	40:46	0.89	42.7		-	-	*			
PCB-137	2.05e+05	1.40	y	41:09	0.90	14.0		-	-	*			
PCB-130	2.81e+05	1.16	y	41:14	0.75	23.3		-	-	*			
PCB-138	4.51e+06	1.25	y	41:35	1.15	242		-	-	*		Co-elute PCB 163/164	
PCB-163	4.51e+06	1.25	y	41:35	1.15	242		-	-	*		Co-elute PCB 138/164	
PCB-164	4.51e+06	1.25	y	41:35	1.15	242		-	-	*		Co-elute PCB 138/163	
PCB-158	6.01e+05	1.26	y	41:48	1.16	32.0		-	-	*		Co-elute PCB 160	
PCB-160	6.01e+05	1.26	y	41:48	1.16	32.0		-	-	*		Co-elute PCB 158	
PCB-129	1.72e+05	1.20	y	42:03	0.75	14.2		-	-	*			
PCB-166	3.19e+04	1.18	y	42:30	1.07	1.84	J	-	-	*			
PCB-159	4.48e+04	1.26	y	42:49	1.16	2.40	J	-	-	*			
PCB-128	7.68e+05	1.39	y	43:04	0.97	49.1		-	-	*		Co-elute PCB 162	
PCB-162	7.68e+05	1.39	y	43:04	0.97	49.1		-	-	*		Co-elute PCB 128	
PCB-167	2.06e+05	1.24	y	43:27	1.06	11.8		-	-	*			
13C-PCB-167	3.28e+07	1.30	y	43:25	1.15	1840					92.7	3.69e+06	2.87e+06
PCB-156	4.96e+05	1.30	y	44:41	1.12	27.3		-	-	*			
13C-PCB-156	3.22e+07	1.29	y	44:40	1.10	1890					95.0	3.58e+06	2.79e+06
PCB-157	1.34e+05	1.26	y	44:56	1.13	7.20		-	-	*			
13C-PCB-157	3.27e+07	1.29	y	44:54	1.15	1840					92.5	3.54e+06	2.76e+06
PCB-169	*	*	n	NotFnd	1.09	*		600	580	0.863			
13C-PCB-169	3.04e+07	1.28	y	46:48	1.08	1810					91.2	3.52e+06	2.72e+06

FAL ID: 11719-004-0001-SA Filename: 30JUL18Z Sam:8 Acquired: 30-JUL-18 17:09:53 ICal: DAILY209FAL4-7-30-18
Client ID: LDW-Y1-IN-ENR+AC-CA-CORE ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 5.040

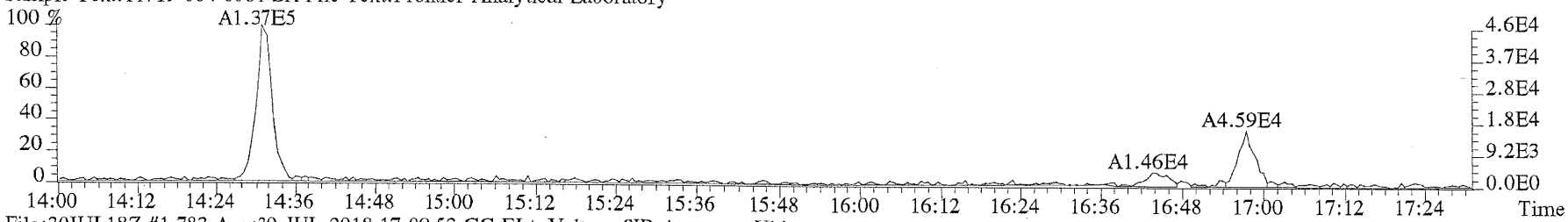
PCB-188	*	*	n	NotFnd	1.14	*		424	272	0.580			
13C-PCB-188	2.60e+07	1.09	y	39:42	0.92	1820					91.8	2.71e+06	2.49e+06
PCB-184	*	*	n	NotFnd	1.18	*		424	272	0.523			
PCB-179	3.02e+05	1.08	y	40:52	1.10	22.0		-	-	*			
PCB-176	9.89e+04	1.05	y	41:19	1.07	7.38		-	-	*			
PCB-186	*	*	n	NotFnd	1.10	*		424	272	0.562			
PCB-178	1.22e+05	1.16	y	42:20	0.79	12.3		-	-	*			
PCB-175	2.20e+04	1.11	y	42:41	0.83	2.12	J	-	-	*			
PCB-187	7.07e+05	1.06	y	42:49	0.91	62.1		-	-	*		Co-elute PCB 182	
PCB-182	7.07e+05	1.06	y	42:49	0.91	62.1		-	-	*		Co-elute PCB 187	
PCB-183	3.22e+05	1.02	y	43:09	0.88	29.2		-	-	*			
PCB-185	5.64e+04	1.19	y	43:47	0.85	5.33		-	-	*			
PCB-174	4.89e+05	1.14	y	44:07	0.82	47.6		-	-	*			
PCB-181	*	*	n	NotFnd	0.85	*		424	272	0.725			
PCB-177	3.13e+05	0.97	y	44:21	0.76	32.8		-	-	*			
PCB-171	1.55e+05	1.08	y	44:40	0.81	15.5		-	-	*			
PCB-173	2.16e+04	1.11	y	45:03	0.74	2.33	J	-	-	*			
PCB-172	9.72e+04	1.18	y	45:27	0.73	10.7		-	-	*			
PCB-192	*	*	n	NotFnd	1.06	*		424	272	0.584			
PCB-180	1.15e+06	1.00	y	45:49	1.02	90.2		-	-	*			
PCB-193	8.78e+04	1.09	y	45:59	1.10	6.40		-	-	*			
PCB-191	3.79e+04	1.07	y	46:12	1.01	3.02	J	-	-	*			
PCB-170	4.86e+05	1.06	y	47:06	0.75	52.1		-	-	*			
PCB-190	1.47e+05	1.02	y	47:16	0.98	12.0		-	-	*			
PCB-189	3.43e+04	1.12	y	48:27	1.12	2.57	J	-	-	*			
13C-PCB-189	2.36e+07	1.08	y	48:27	0.82	1850					93.3	3.18e+06	2.86e+06
PCB-202	6.23e+04	0.77	y	44:49	1.01	7.82		-	-	*			
PCB-201	4.63e+04	0.82	y	45:16	0.99	5.92		-	-	*			
PCB-204	*	*	n	NotFnd	0.96	*		172	236	0.662			
PCB-197	*	*	n	NotFnd	1.06	*		172	236	0.604			
PCB-200	2.87e+04	0.92	y	46:23	0.98	3.70	J	-	-	*			
PCB-198	*	*	n	NotFnd	0.72	*		172	236	0.889			
PCB-199	2.04e+05	0.81	y	47:41	0.78	33.4		-	-	*			
PCB-203	2.18e+05	0.97	y	47:57	0.82	33.7		-	-	*		Co-elute PCB 196	
PCB-196	2.18e+05	0.97	y	47:57	0.82	33.7		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.57e+07	0.92	y	44:48	0.59	1720					86.6	1.52e+06	1.66e+06
13C-PCB-178	1.87e+07	1.08	y	42:20	0.65	1850					93.1	2.10e+06	1.94e+06
13C-PCB-138	3.07e+07	1.30	y	41:34	-	20.9							
PCB-195	1.84e+05	0.92	y	49:03	0.79	11.1		-	-	*			
PCB-194	5.17e+05	0.90	y	49:50	0.85	28.8		-	-	*			
PCB-205	3.65e+04	0.86	y	50:06	1.15	1.51	J	-	-	*			
13C-PCB-205	4.18e+07	0.94	y	50:05	1.30	1700					85.8	5.76e+06	6.34e+06
PCB-208	5.98e+04	1.40	y	49:08	1.05	3.52	J	-	-	*			
13C-PCB-208	3.20e+07	0.80	y	49:08	1.04	1630					82.3	4.82e+06	5.99e+06
PCB-207	2.63e+04	1.38	y	49:26	1.07	1.73	J	-	-	*			
PCB-206	1.63e+05	1.45	y	51:18	1.04	12.6		-	-	*			
13C-PCB-206	2.49e+07	0.80	y	51:16	0.86	1530					77.2	3.39e+06	4.35e+06
PCB-209	1.22e+05	1.08	y	52:27	1.10	8.02		-	-	*			
13C-PCB-209	2.73e+07	1.23	y	52:27	0.98	1480					74.7	4.52e+06	3.63e+06
13C-PCB-194	3.73e+07	0.94	y	49:50	-	23.5							

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

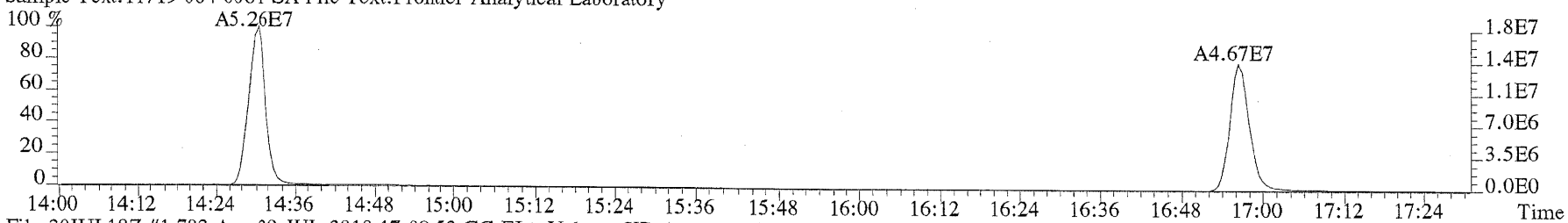
File:30JUL18Z #1-783 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:8 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



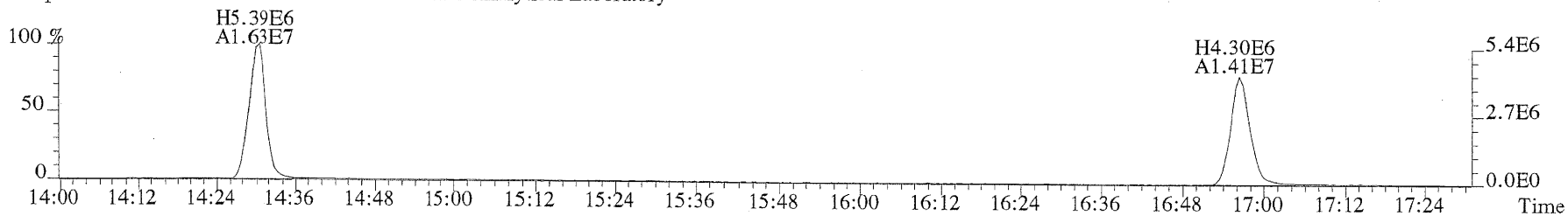
File:30JUL18Z #1-783 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:8 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



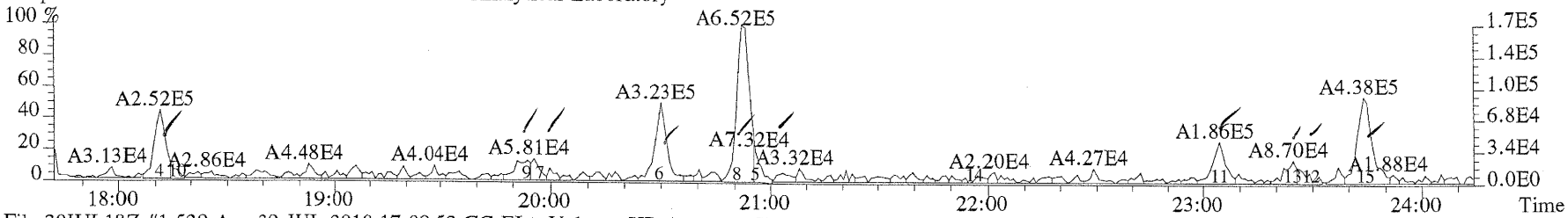
File:30JUL18Z #1-783 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:8 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



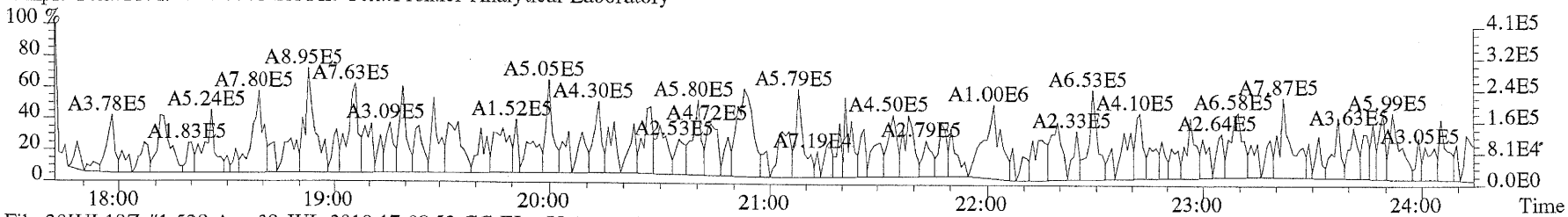
File:30JUL18Z #1-783 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:8 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



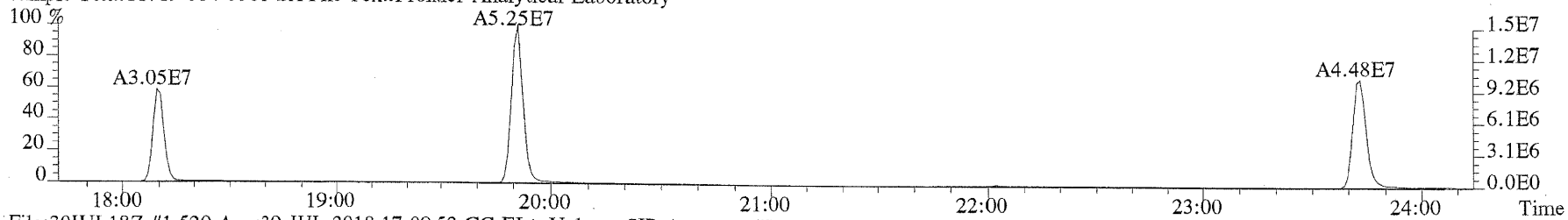
File:30JUL18Z #1-520 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



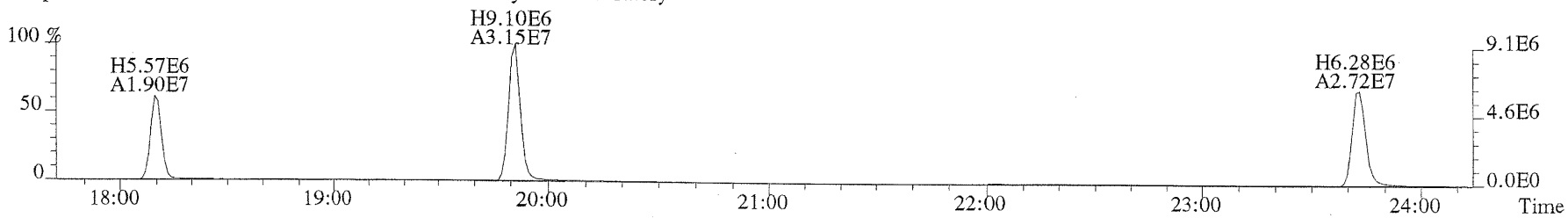
File:30JUL18Z #1-520 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



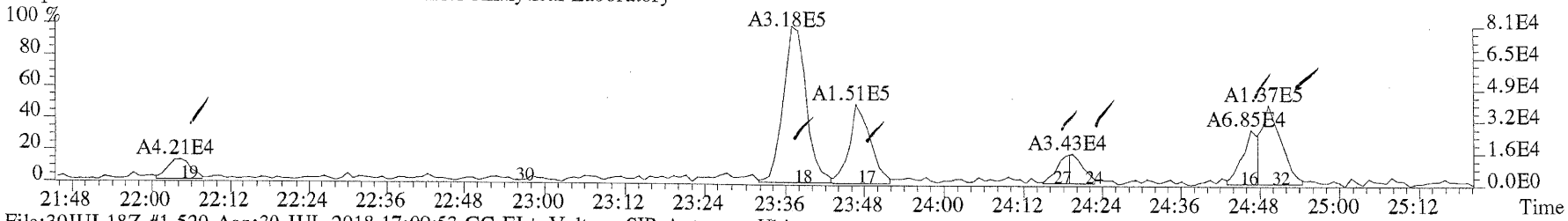
File:30JUL18Z #1-520 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



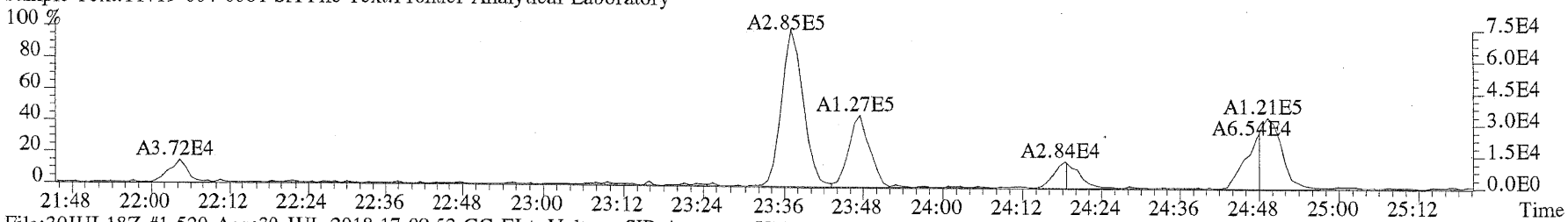
File:30JUL18Z #1-520 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



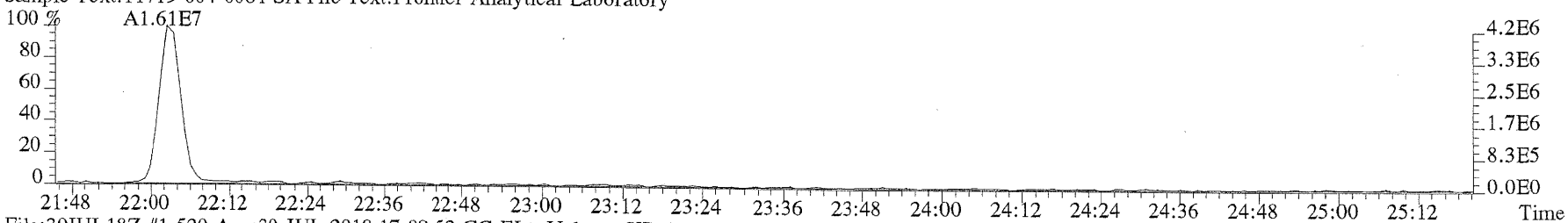
File:30JUL18Z #1-520 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



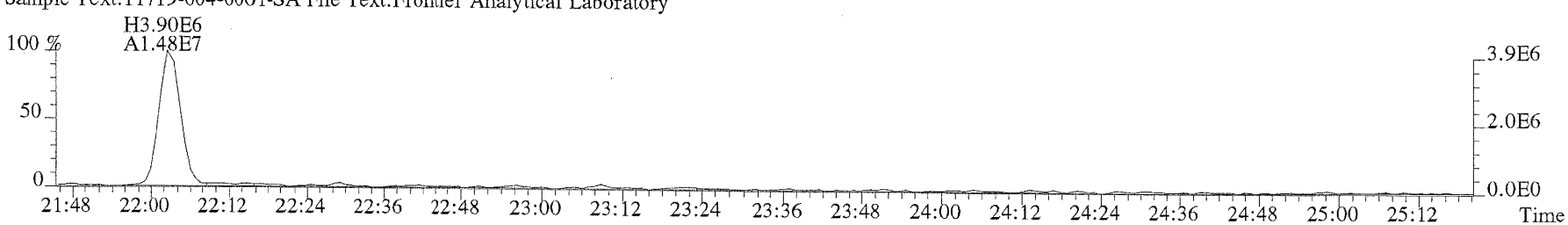
File:30JUL18Z #1-520 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



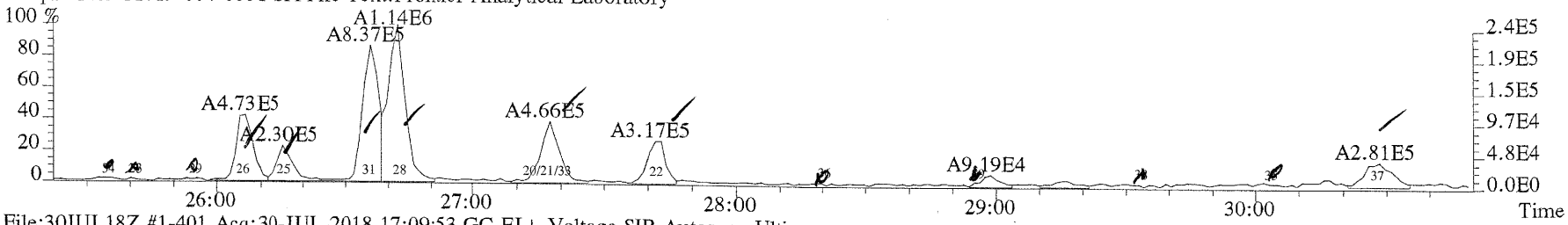
File:30JUL18Z #1-520 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



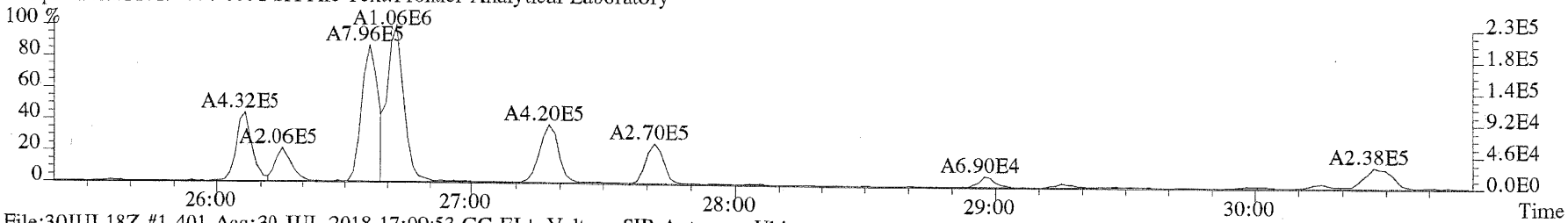
File:30JUL18Z #1-520 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



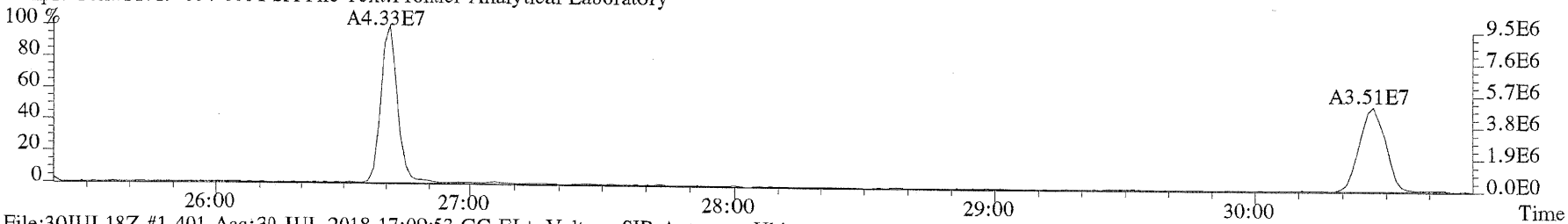
File:30JUL18Z #1-401 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



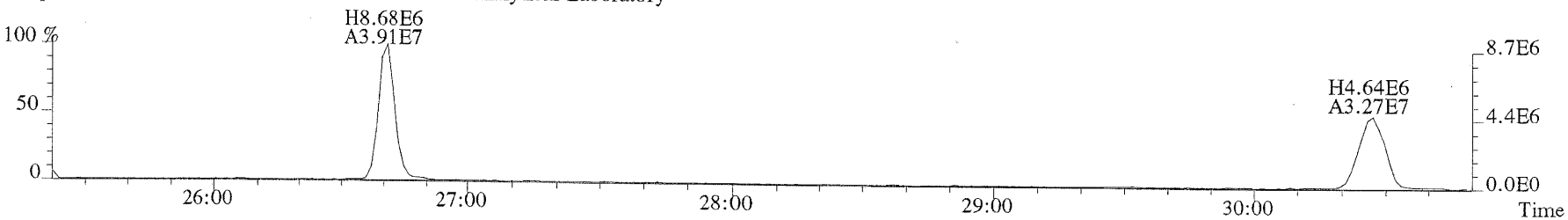
File:30JUL18Z #1-401 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



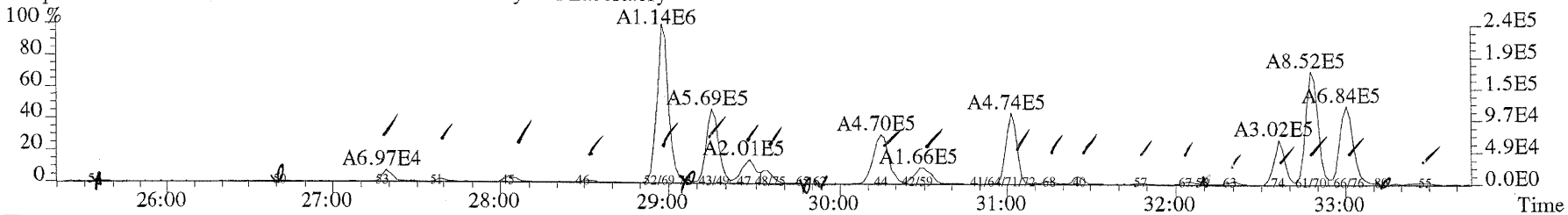
File:30JUL18Z #1-401 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



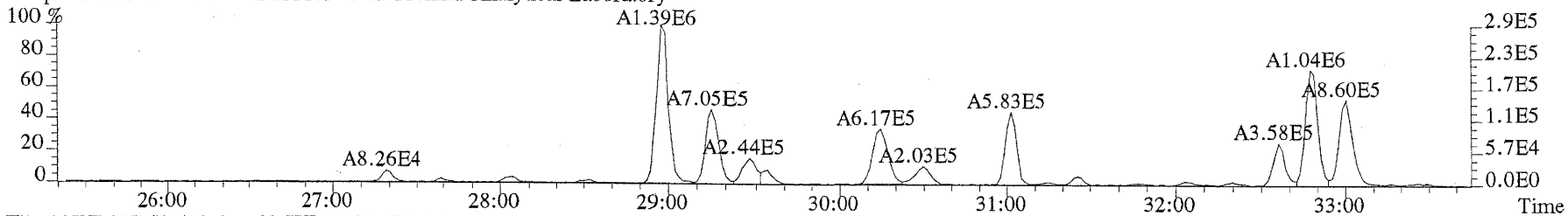
File:30JUL18Z #1-401 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



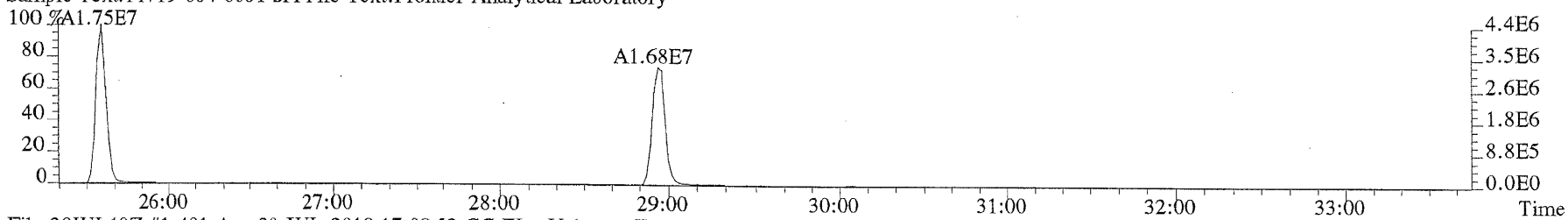
File:30JUL18Z #1-401 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



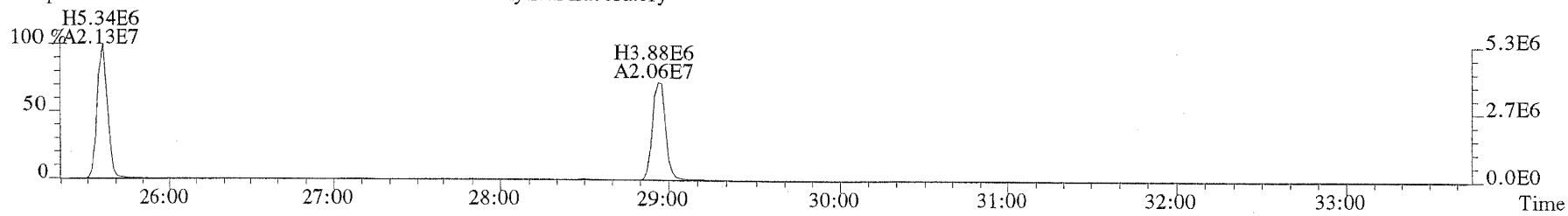
File:30JUL18Z #1-401 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



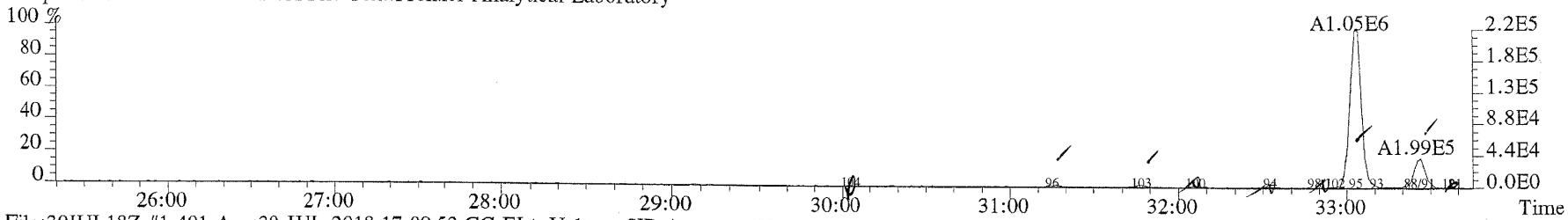
File:30JUL18Z #1-401 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



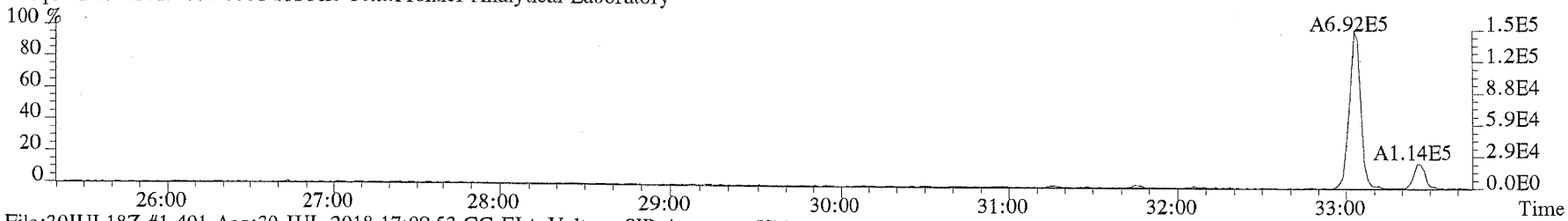
File:30JUL18Z #1-401 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



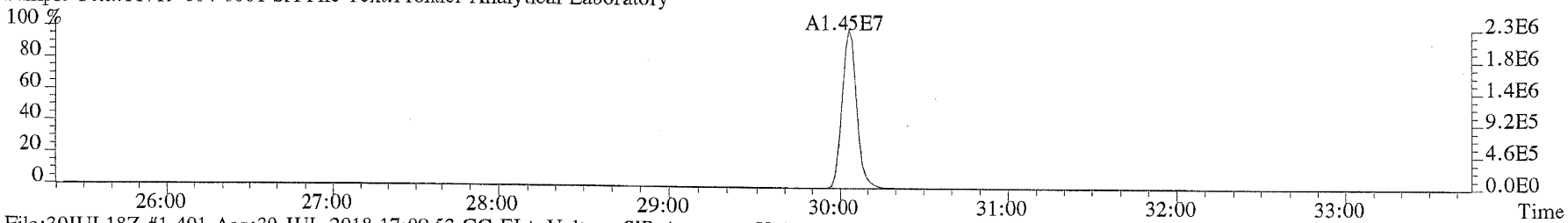
File:30JUL18Z #1-401 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



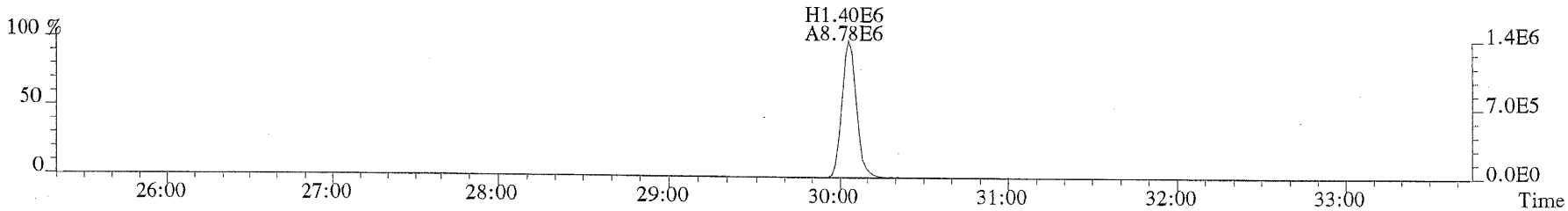
File:30JUL18Z #1-401 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-401 Acq:30-JUL-2018 17:09:53 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:11719-004-0001-SA File Text:Frontier Analytical Laboratory

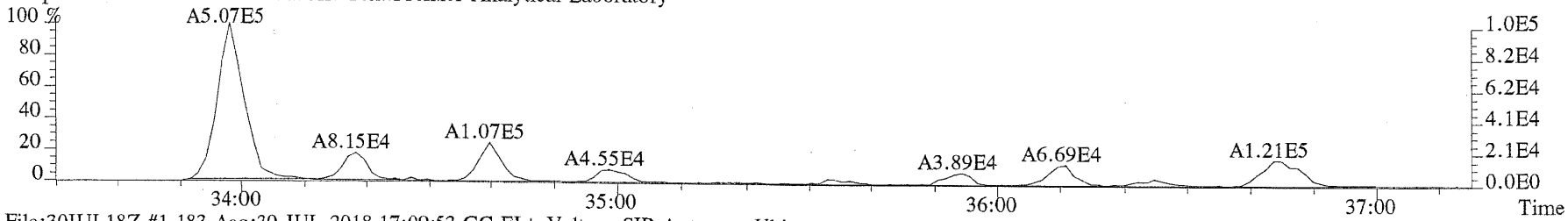


File:30JUL18Z #1-401 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory

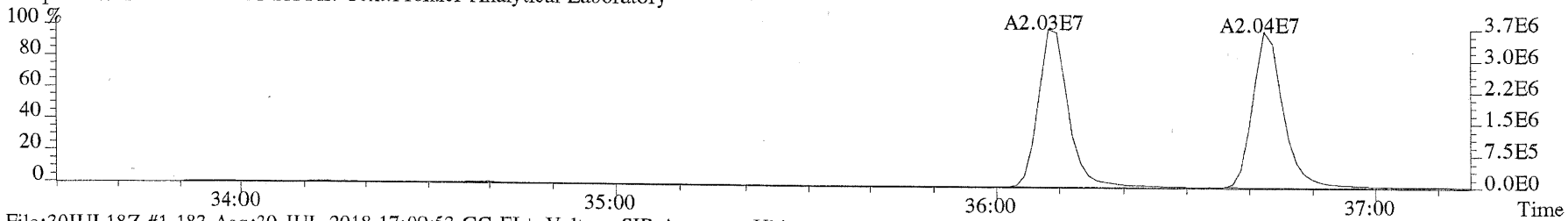


File:30JUL18Z #1-183 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory

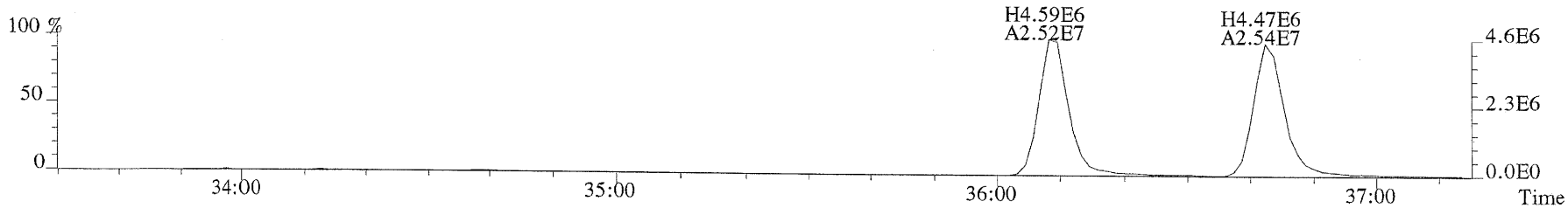
File:30JUL18Z #1-183 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



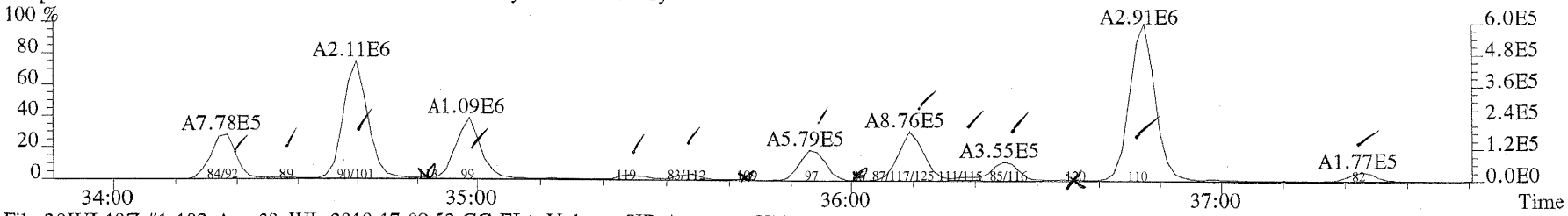
File:30JUL18Z #1-183 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



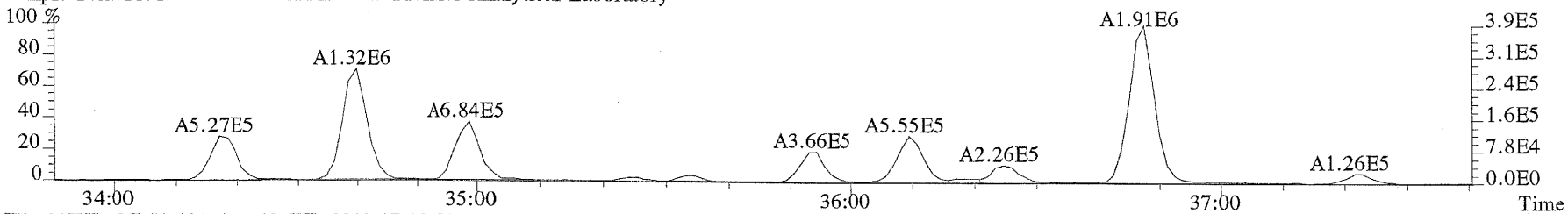
File:30JUL18Z #1-183 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



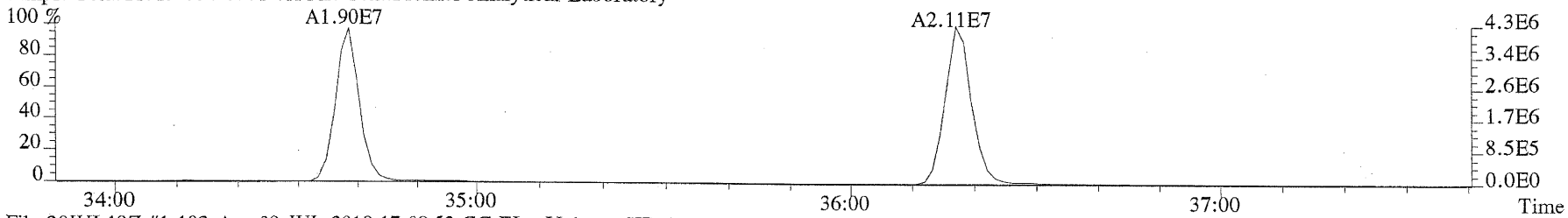
File:30JUL18Z #1-183 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



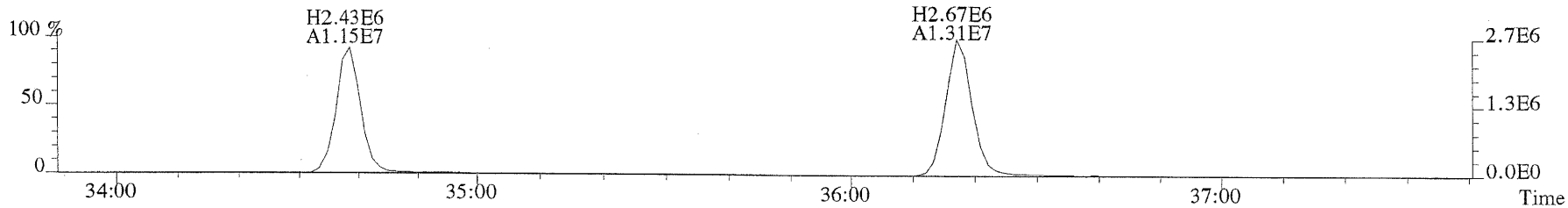
File:30JUL18Z #1-183 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



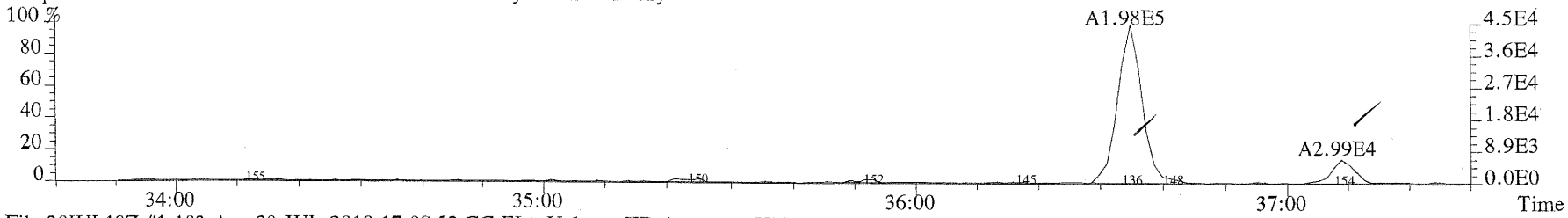
File:30JUL18Z #1-183 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



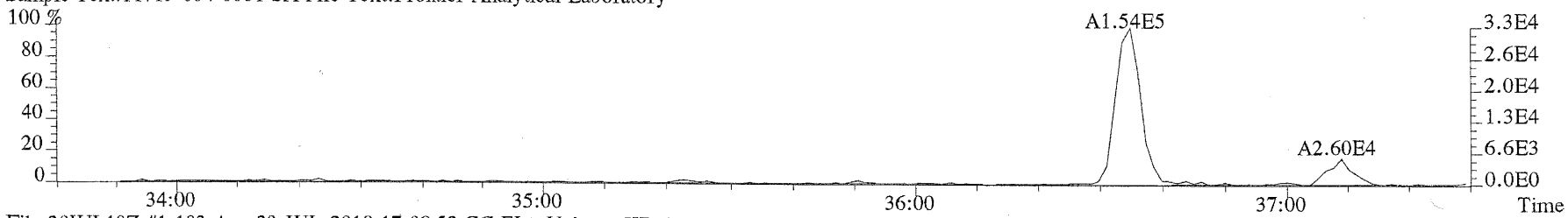
File:30JUL18Z #1-183 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



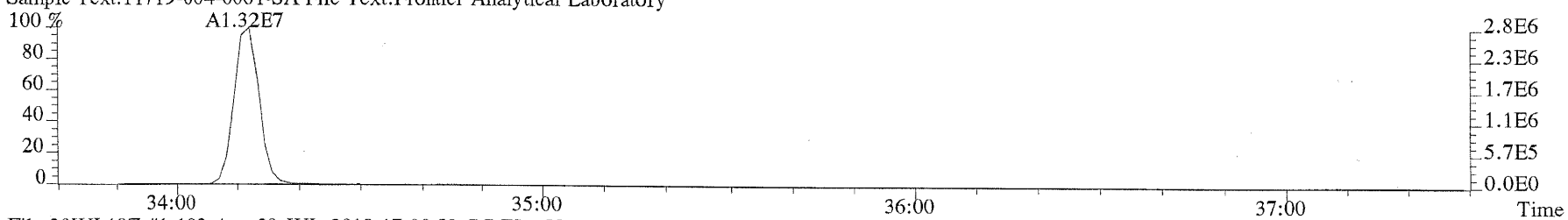
File:30JUL18Z #1-183 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



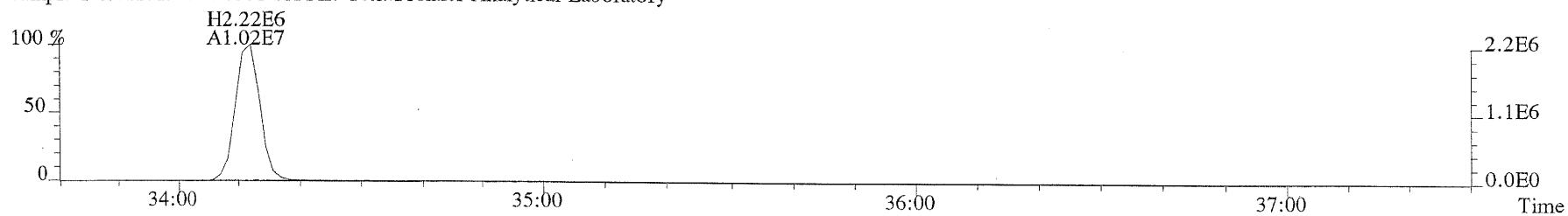
File:30JUL18Z #1-183 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



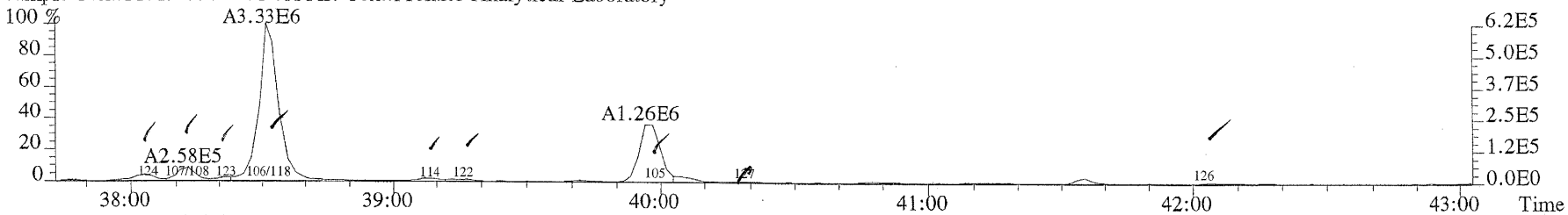
File:30JUL18Z #1-183 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



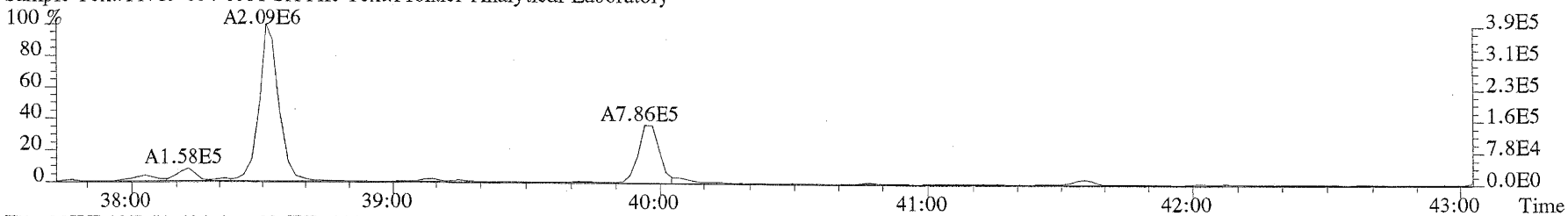
File:30JUL18Z #1-183 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



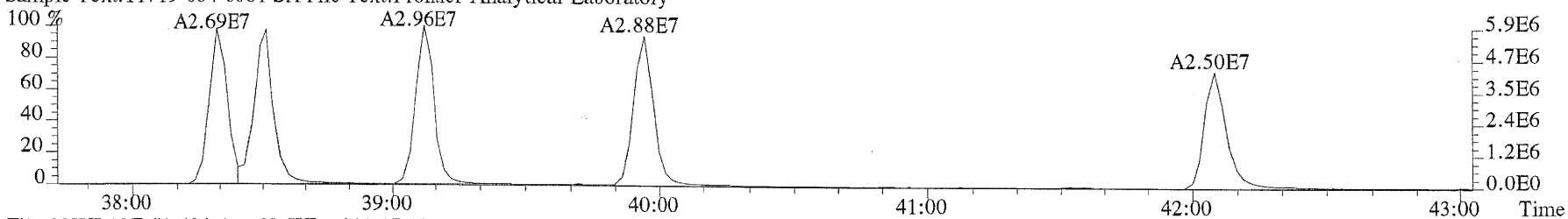
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



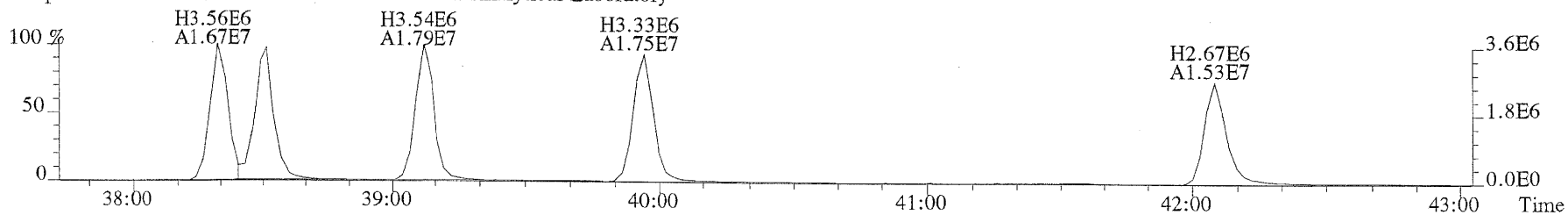
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



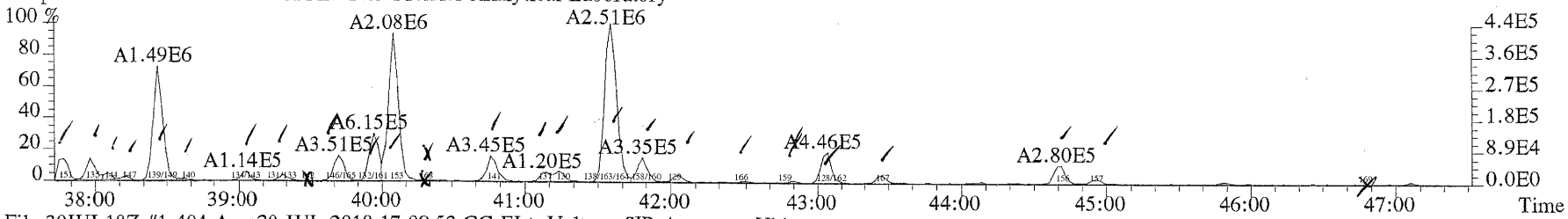
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



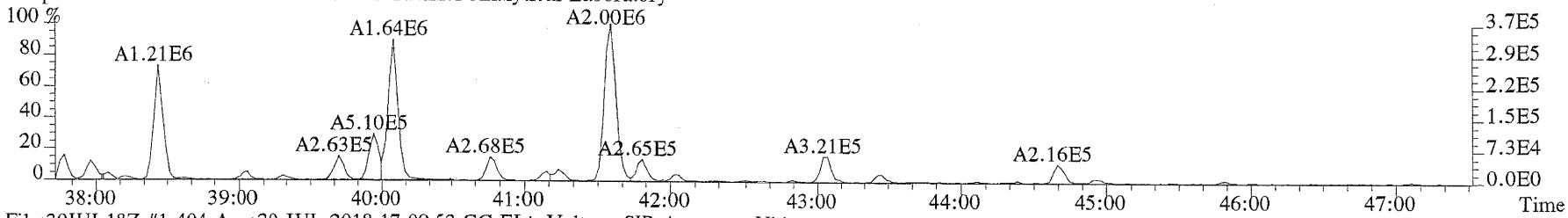
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



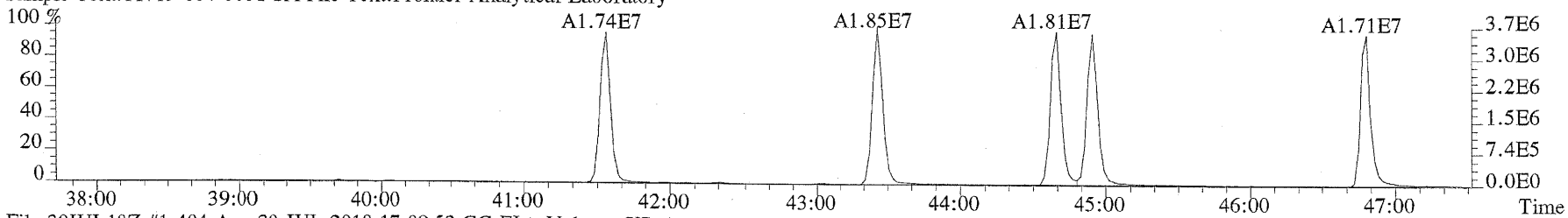
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



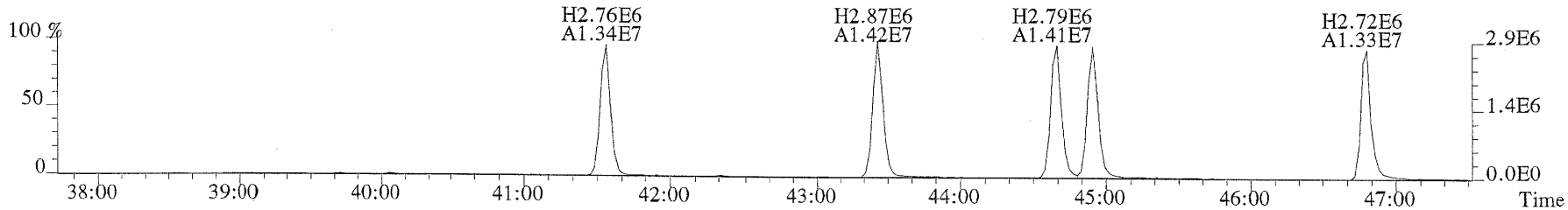
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



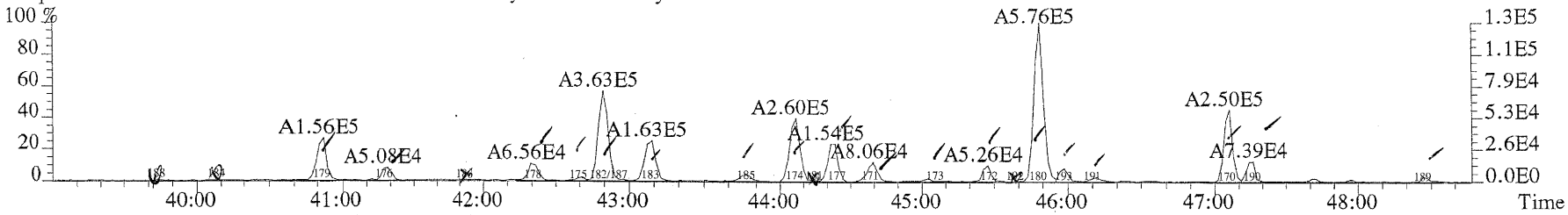
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



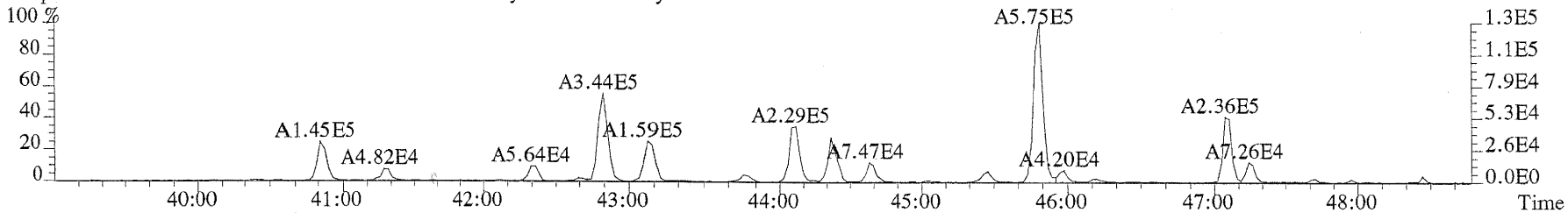
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



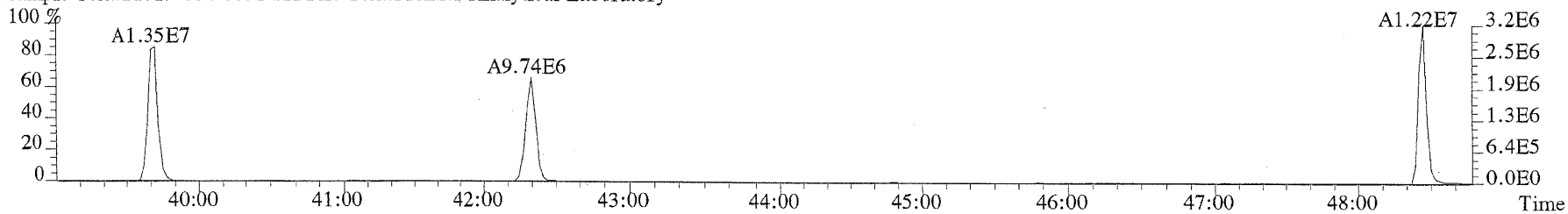
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



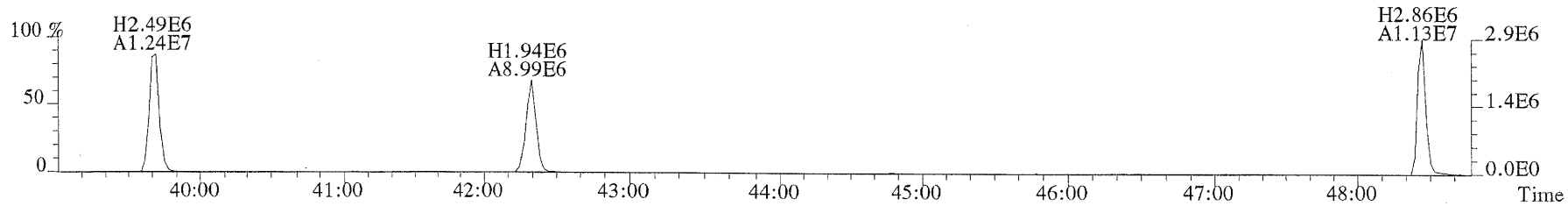
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



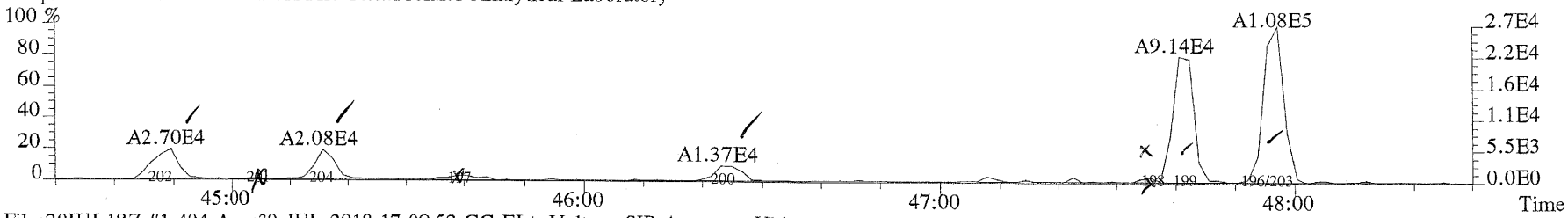
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



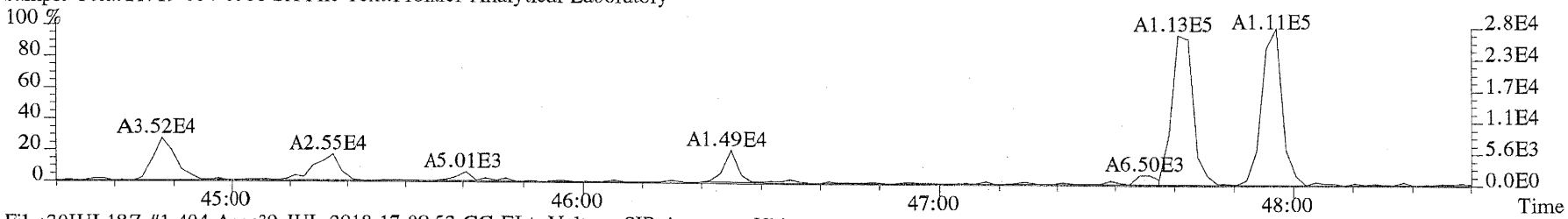
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



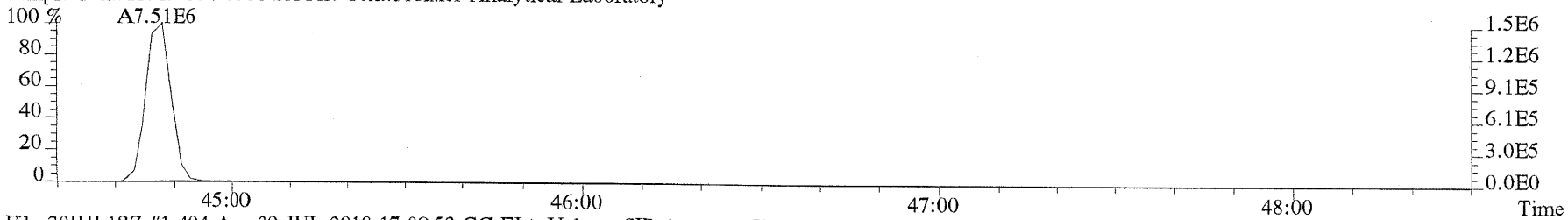
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



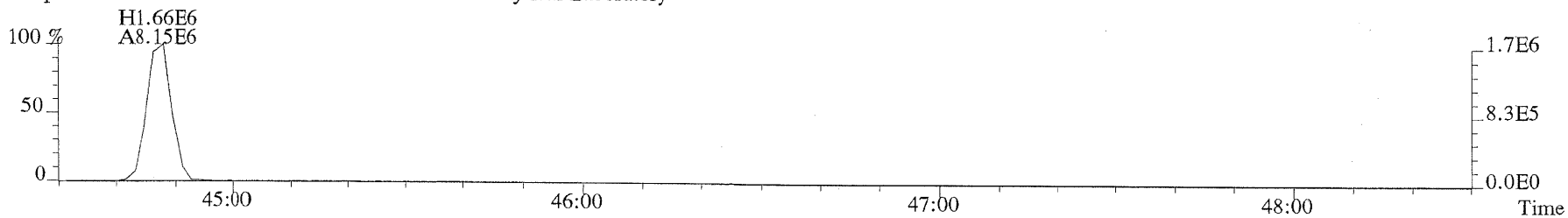
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



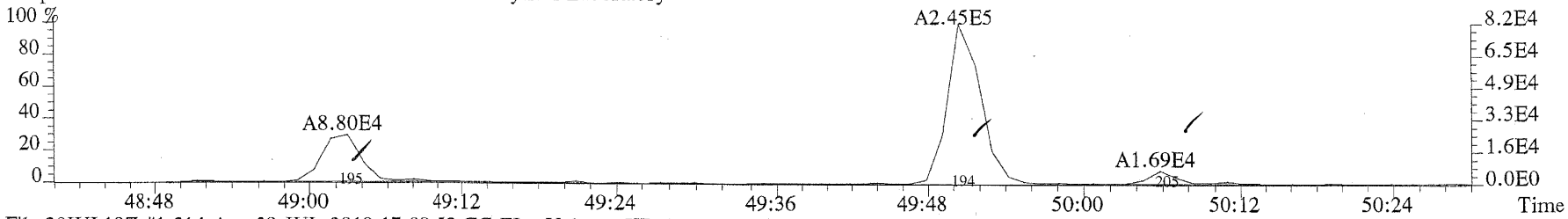
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



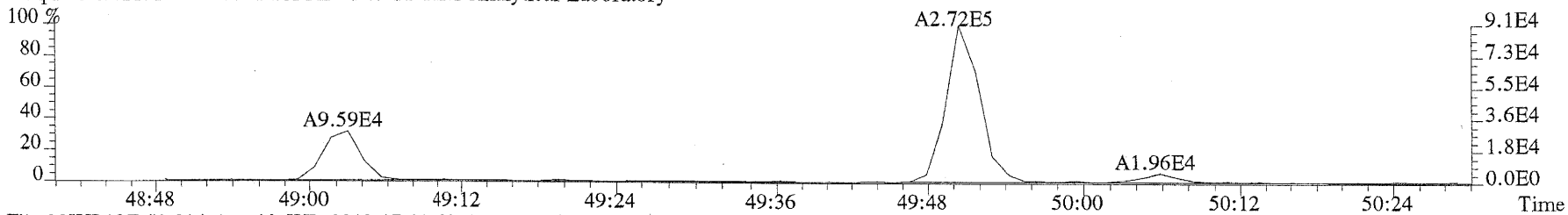
File:30JUL18Z #1-404 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



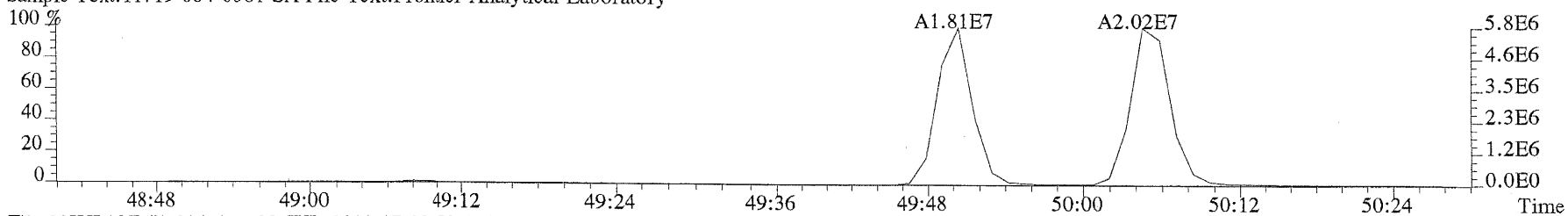
File:30JUL18Z #1-314 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



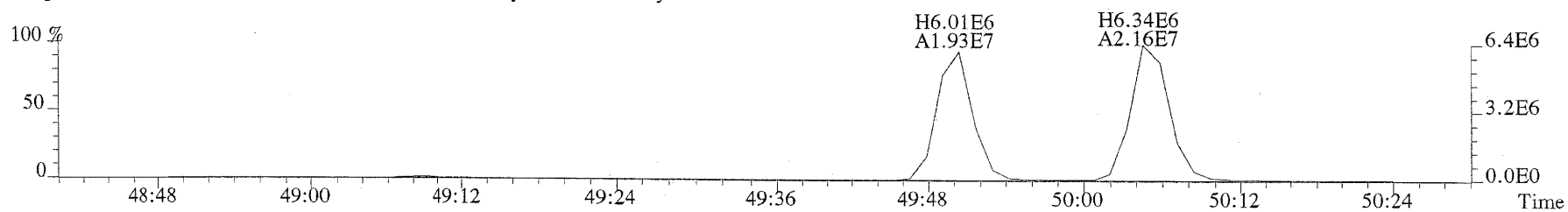
File:30JUL18Z #1-314 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



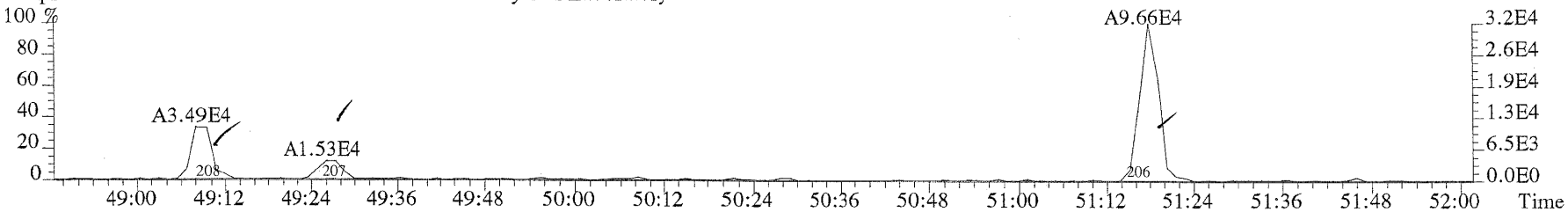
File:30JUL18Z #1-314 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



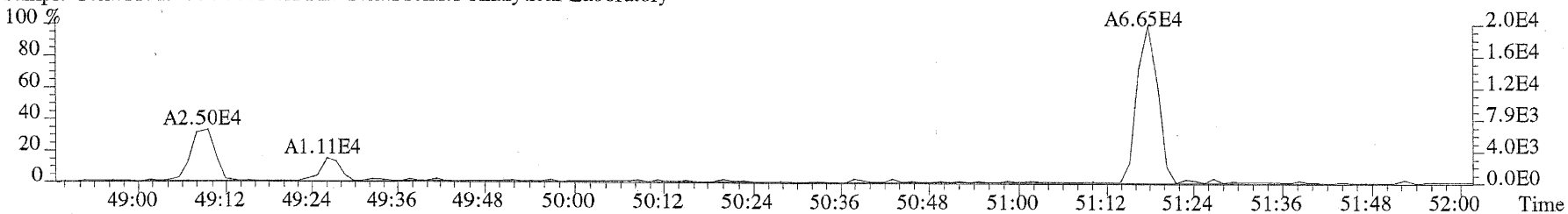
File:30JUL18Z #1-314 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



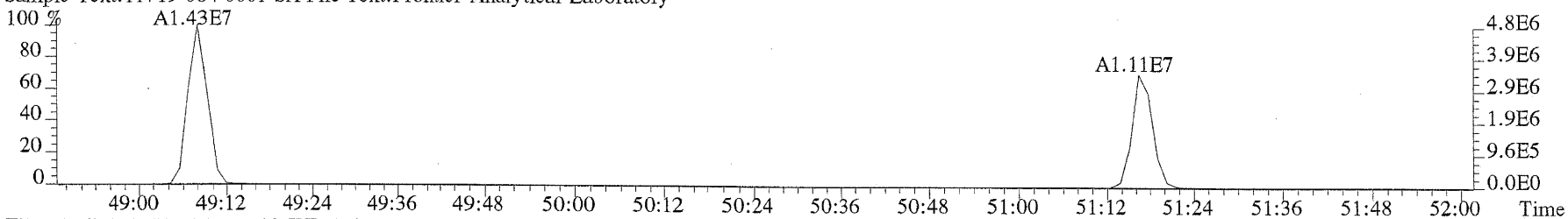
File:30JUL18Z #1-314 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



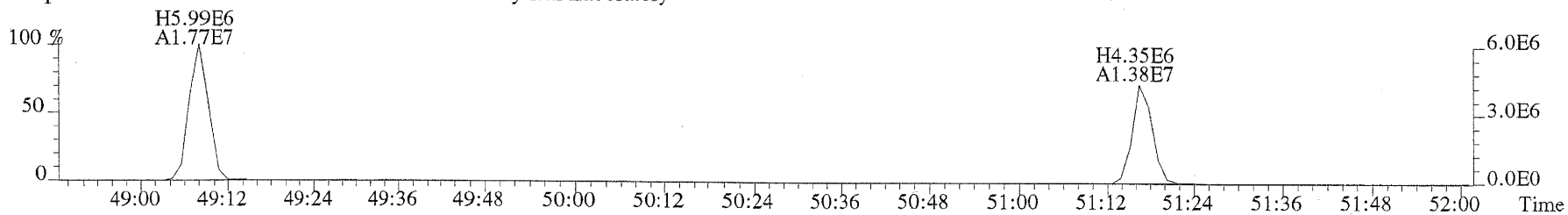
File:30JUL18Z #1-314 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



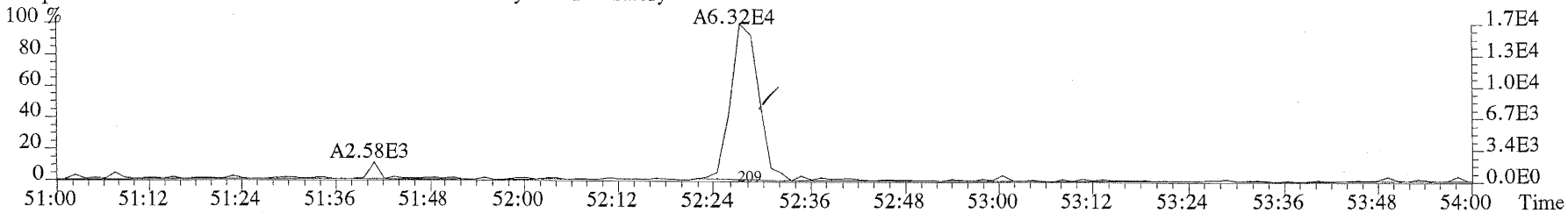
File:30JUL18Z #1-314 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



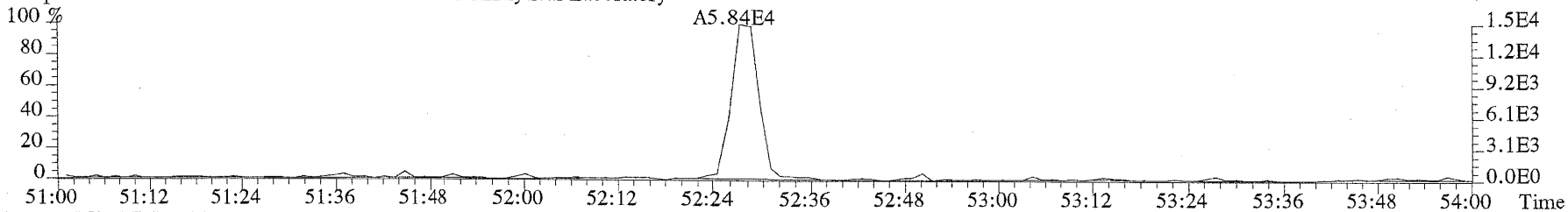
File:30JUL18Z #1-314 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



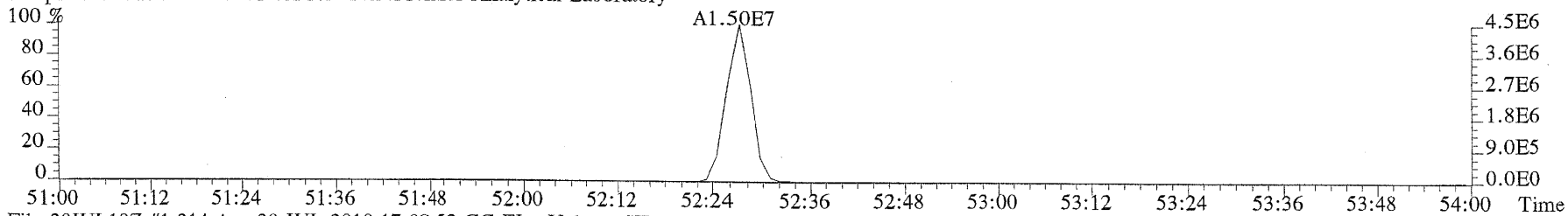
File:30JUL18Z #1-314 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



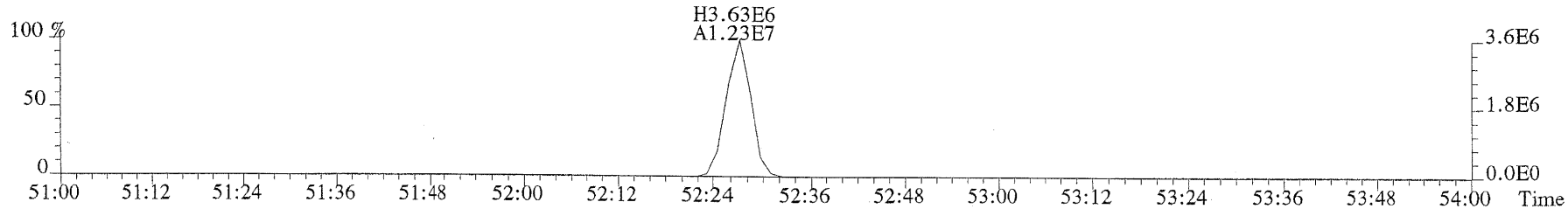
File:30JUL18Z #1-314 Acq:30-JUL-2018 17:09:53 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-004-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-314 Acq:30-JUL-2018 17:09:53 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:11719-004-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-314 Acq:30-JUL-2018 17:09:53 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:11719-004-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-005-0001-SA Filename: 30JUL18Z Sam:9 Acquired: 30-JUL-18 18:08:40 ICal: DAILY209FAL4-7-30-18
Client ID: LDW-Y1-IN-ENR+AC-CB-CORE ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 4.990

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	6.39e+05	3.07 y	14:31	1.20	21.6		-	-	*			
13C-PCB-1	4.96e+07	3.23 y	14:30	0.92	1660					82.9	1.20e+07	3.74e+06
PCB-2	6.29e+04	3.27 y	16:45	1.08	2.50	J	-	-	*			
PCB-3	1.86e+05	3.16 y	16:58	1.19	7.15		-	-	*			
13C-PCB-3	4.38e+07	3.26 y	16:57	0.90	1500					75.1	9.67e+06	2.95e+06
PCB-4	3.42e+05	1.43 y	18:11	1.40	13.0		-	-	*			
PCB-10	7.99e+04	1.52 y	18:14	1.27	2.87	J	-	-	*			
13C-PCB-4	3.77e+07	1.61 y	18:10	0.68	1730					86.2	6.97e+06	4.29e+06
PCB-9	1.26e+05	1.57 y	19:53	1.40	4.10		-	-	*			
PCB-7	1.88e+05	1.48 y	19:55	1.49	5.72		-	-	*			
PCB-6	5.60e+05	1.49 y	20:31	1.40	18.2		-	-	*			
PCB-8	1.30e+06	1.50 y	20:53	1.37	43.1		-	-	*			
PCB-5	1.90e+05	1.46 y	20:56	1.45	5.96		-	-	*			
PCB-14	*	* n	NotFnd	1.34	*		790	1500	0.745			
PCB-11	2.03e+05	1.64 y	23:05	1.29	7.17		-	-	*			
PCB-13	6.32e+04	1.64 y	23:24	1.33	2.16	J	-	-	*			
PCB-12	9.88e+04	1.42 y	23:25	1.41	3.18	J	-	-	*			
PCB-15	6.23e+05	1.52 y	23:46	1.33	18.7		-	-	*			
13C-PCB-15	5.04e+07	1.60 y	23:43	1.00	1570					78.1	7.25e+06	4.52e+06
PCB-19	9.17e+04	1.16 y	22:04	1.21	6.48		-	-	*			
PCB-30	*	* n	NotFnd	1.67	*		580	532	0.549			
PCB-18	7.76e+05	1.16 y	23:38	1.17	56.5		-	-	*			
PCB-17	3.77e+05	1.19 y	23:47	1.28	25.2		-	-	*			
PCB-27	8.21e+04	1.05 y	24:19	1.57	4.47		-	-	*			
PCB-24	3.37e+04	1.08 y	24:21	1.72	1.67	J	-	-	*			
PCB-16	2.27e+05	1.12 y	24:48	1.40	13.8		-	-	*			
PCB-32	2.89e+05	1.08 y	24:49	1.46	16.8		-	-	*			
13C-PCB-19	2.35e+07	1.09 y	22:03	0.41	1760					87.7	3.18e+06	2.91e+06
13C-PCB-9	6.48e+07	1.65 y	19:52	-	17.8							
PCB-34	*	* n	NotFnd	1.28	*		804	750	0.620			
PCB-23	*	* n	NotFnd	1.27	*		804	750	0.624			
PCB-29	*	* n	NotFnd	1.33	*		804	750	0.599			
PCB-26	1.88e+06	1.04 y	26:07	1.26	65.1		-	-	*			
PCB-25	7.86e+05	1.04 y	26:16	1.59	21.5		-	-	*			
PCB-31	2.47e+06	1.04 y	26:36	1.29	83.3		-	-	*			
PCB-28	2.94e+06	1.05 y	26:42	1.56	82.1		-	-	*			
PCB-20	1.41e+06	1.12 y	27:19	1.33	46.0		-	-	*		Co-elute PCB 21/33	
PCB-21	1.41e+06	1.12 y	27:19	1.33	46.0		-	-	*		Co-elute PCB 20/33	
PCB-33	1.41e+06	1.12 y	27:19	1.33	46.0		-	-	*		Co-elute PCB 20/21	
PCB-22	8.87e+05	1.18 y	27:43	1.35	28.6		-	-	*			
PCB-36	*	* n	NotFnd	1.21	*		804	750	0.658			
PCB-39	*	* n	NotFnd	1.27	*		804	750	0.625			
PCB-38	*	* n	NotFnd	1.28	*		804	750	0.621			
PCB-35	*	* n	NotFnd	1.15	*		804	750	0.691			
PCB-37	5.93e+05	1.13 y	30:25	1.37	18.9		-	-	*			
13C-PCB-37	4.60e+07	1.07 y	30:23	1.82	1810					90.2	5.08e+06	4.71e+06

PCB-54	*	*	n	NotFnd	1.19	*		492	732	0.661			
PCB-50	*	*	n	NotFnd	0.91	*		492	732	0.869			
PCB-53	2.17e+05	0.82	y	27:20	0.92	15.7		-	-	*			
PCB-51	6.15e+04	0.68	y	27:39	0.93	4.36		-	-	*			
PCB-45	1.53e+05	0.79	y	28:03	0.78	13.0		-	-	*			
PCB-46	6.29e+04	0.67	y	28:31	0.76	5.49		-	-	*			
PCB-52	4.17e+06	0.80	y	28:57	1.06	261		-	-	*		Co-elute PCB 69	
PCB-69	4.17e+06	0.80	y	28:57	1.06	261		-	-	*		Co-elute PCB 52	
PCB-73	*	*	n	NotFnd	1.26	*		492	732	0.626			
PCB-43	2.19e+06	0.79	y	29:15	0.88	164		-	-	*		Co-elute PCB 49	
PCB-49	2.19e+06	0.79	y	29:15	0.88	164		-	-	*		Co-elute PCB 43	
PCB-47	6.48e+05	0.78	y	29:28	1.14	37.5		-	-	*			
PCB-48	2.79e+05	0.82	y	29:34	1.10	16.7		-	-	*		Co-elute PCB 75	
PCB-75	2.79e+05	0.82	y	29:34	1.10	16.7		-	-	*		Co-elute PCB 48	
PCB-65	*	*	n	NotFnd	1.07	*		492	732	0.734			
PCB-62	*	*	n	NotFnd	1.19	*		492	732	0.662			
PCB-44	1.74e+06	0.83	y	30:13	0.81	143		-	-	*			
PCB-42	5.90e+05	0.83	y	30:26	1.08	36.1		-	-	*		Co-elute PCB 59	
PCB-59	5.90e+05	0.83	y	30:26	1.08	36.1		-	-	*		Co-elute PCB 42	
PCB-72	1.58e+06	0.80	y	30:59	1.15	90.7		-	-	*		Co-elute PCB 41/71/64	
PCB-41	1.58e+06	0.80	y	30:59	1.15	90.7		-	-	*		Co-elute PCB 72/71/64	
PCB-71	1.58e+06	0.80	y	30:59	1.15	90.7		-	-	*		Co-elute PCB 72/41/64	
PCB-64	1.58e+06	0.80	y	30:59	1.15	90.7		-	-	*		Co-elute PCB 72/41/71	
PCB-68	7.08e+04	0.81	y	31:13	1.26	3.72	J	-	-	*			
PCB-40	1.79e+05	0.83	y	31:25	0.71	16.8		-	-	*			
PCB-57	6.45e+04	0.85	y	31:45	1.11	3.84	J	-	-	*			
PCB-67	1.42e+05	0.82	y	32:04	1.10	8.57		-	-	*			
PCB-58	3.03e+04	0.85	y	32:10	1.16	1.74	J	-	-	*			
PCB-63	1.06e+05	0.87	y	32:20	1.17	6.03		-	-	*			
PCB-74	1.03e+06	0.77	y	32:36	1.21	56.5		-	-	*			
PCB-61	2.68e+06	0.80	y	32:47	1.21	146		-	-	*		Co-elute PCB 70	
PCB-70	2.68e+06	0.80	y	32:47	1.21	146		-	-	*		Co-elute PCB 61	
PCB-76	2.36e+06	0.78	y	33:00	1.21	130		-	-	*		Co-elute PCB 66	
PCB-66	2.36e+06	0.78	y	33:00	1.21	130		-	-	*		Co-elute PCB 76	
PCB-80	*	*	n	NotFnd	1.28	*		492	732	0.615			
PCB-55	1.25e+05	0.88	y	33:29	1.20	6.91		-	-	*			
13C-PCB-54	3.03e+07	0.82	y	25:35	1.17	1840					92.0	3.50e+06	4.30e+06
PCB-104	*	*	n	NotFnd	1.32	*		276	388	0.730			
PCB-96	3.32e+04	1.47	y	31:15	1.16	3.41	J	-	-	*			
PCB-103	4.53e+04	1.64	y	31:45	0.99	5.49		-	-	*			
PCB-100	2.06e+04	1.65	y	32:06	1.01	2.44	J	-	-	*			
PCB-94	*	*	n	NotFnd	0.85	*		276	388	1.13			
PCB-98	*	*	n	NotFnd	1.05	*		276	388	0.914		Co-elute PCB 102	
PCB-102	*	*	n	NotFnd	1.05	*		276	388	0.914		Co-elute PCB 98	
PCB-95	2.62e+06	1.63	y	33:03	0.90	348		-	-	*			
PCB-93	*	*	n	NotFnd	0.83	*		276	388	1.15			
PCB-88	4.58e+05	1.53	y	33:25	0.93	58.7		-	-	*		Co-elute PCB 91	
PCB-91	4.58e+05	1.53	y	33:25	0.93	58.7		-	-	*		Co-elute PCB 88	
PCB-121	*	*	n	NotFnd	1.17	*		276	388	0.822			
13C-PCB-104	1.68e+07	1.59	y	30:03	0.62	1920					96.0	2.13e+06	1.33e+06
13C-PCB-28	6.08e+07	1.10	y	26:41	2.10	2060					103	7.51e+06	6.79e+06
13C-PCB-52	2.81e+07	0.81	y	28:56	-	16.7							

PCB-56	1.45e+06	0.80	y	33:58	1.30	68.0	-	-	*			Co-elute PCB 60
PCB-60	1.45e+06	0.80	y	33:58	1.30	68.0	-	-	*			Co-elute PCB 56
PCB-79	1.10e+05	0.67	y	34:59	1.27	5.31	-	-	*			
PCB-78	*	*	n	NotFnd	1.21	*	872	1540	1.77			
PCB-81	1.80e+05	0.86	y	36:11	1.33	8.28	-	-	*			
13C-PCB-81	3.29e+07	0.81	y	36:09	1.59	1840				91.8	2.61e+06	3.29e+06
PCB-77	2.70e+05	0.82	y	36:46	1.22	13.6	-	-	*			
13C-PCB-77	3.27e+07	0.82	y	36:44	1.65	1760				87.7	2.44e+06	2.94e+06
PCB-155	*	*	n	NotFnd	1.16	*	236	244	0.539			
PCB-150	*	*	n	NotFnd	1.06	*	236	244	0.588			
PCB-152	*	*	n	NotFnd	1.01	*	236	244	0.617			
PCB-145	*	*	n	NotFnd	1.05	*	236	244	0.597			
PCB-136	5.20e+05	1.37	y	36:35	1.01	57.9	-	-	*			
PCB-148	*	*	n	NotFnd	0.78	*	236	244	0.801			
PCB-154	5.38e+04	1.18	y	37:08	0.92	6.59	-	-	*			
13C-PCB-155	1.79e+07	1.31	y	34:11	0.86	1850				92.4	2.15e+06	1.68e+06
13C-PCB-111	2.55e+07	1.61	y	36:17	1.18	1910				95.4	3.26e+06	2.08e+06
13C-PCB-101	2.26e+07	1.59	y	34:38	-	16.3						
PCB-84	2.08e+06	1.62	y	34:17	0.59	200	-	-	*			Co-elute PCB 92
PCB-92	2.08e+06	1.62	y	34:17	0.59	200	-	-	*			Co-elute PCB 84
PCB-89	6.01e+04	1.37	y	34:28	0.58	5.88	-	-	*			
PCB-90	5.06e+06	1.58	y	34:40	0.68	428	-	-	*			Co-elute PCB 101
PCB-101	5.06e+06	1.58	y	34:40	0.68	428	-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.76	*	840	560	1.34			
PCB-99	2.50e+06	1.57	y	34:59	0.72	200	-	-	*			
PCB-119	2.11e+05	1.47	y	35:25	0.81	14.9	-	-	*			
PCB-83	2.71e+05	1.59	y	35:34	0.68	22.7	-	-	*			Co-elute PCB 112
PCB-112	2.71e+05	1.59	y	35:34	0.68	22.7	-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.80	*	840	560	1.26			
PCB-97	1.40e+06	1.54	y	35:53	0.71	112	-	-	*			
PCB-86	*	*	n	NotFnd	0.63	*	840	560	1.61			
PCB-125	2.20e+06	1.58	y	36:09	0.74	170	-	-	*			Co-elute PCB 87/117
PCB-87	2.20e+06	1.58	y	36:09	0.74	170	-	-	*			Co-elute PCB 125/117
PCB-117	2.20e+06	1.58	y	36:09	0.74	170	-	-	*			Co-elute PCB 125/87
PCB-111	1.16e+05	1.50	y	36:18	0.98	6.73	-	-	*			Co-elute PCB 115
PCB-115	1.16e+05	1.50	y	36:18	0.98	6.73	-	-	*			Co-elute PCB 111
PCB-85	8.68e+05	1.53	y	36:25	0.67	73.8	-	-	*			Co-elute PCB 116
PCB-116	8.68e+05	1.53	y	36:25	0.67	73.8	-	-	*			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.83	*	840	560	1.23			
PCB-110	7.31e+06	1.58	y	36:47	0.91	458	-	-	*			
PCB-82	4.69e+05	1.48	y	37:23	0.51	53.0	-	-	*			
PCB-124	3.25e+05	1.46	y	38:03	1.10	16.8	-	-	*			
PCB-108	6.12e+05	1.46	y	38:13	1.26	27.8	-	-	*			Co-elute PCB 107
PCB-107	6.12e+05	1.46	y	38:13	1.26	27.8	-	-	*			Co-elute PCB 108
PCB-123	1.13e+05	1.54	y	38:21	1.35	5.10	-	-	*			
13C-PCB-123	3.30e+07	1.62	y	38:19	1.45	1900				94.9	4.43e+06	2.70e+06
PCB-118	7.76e+06	1.60	y	38:31	1.17	355	-	-	*			Co-elute PCB 106
PCB-106	7.76e+06	1.60	y	38:31	1.17	355	-	-	*			Co-elute PCB 118
13C-PCB-118	3.74e+07	1.65	y	38:31	1.55	2020				101	4.17e+06	2.48e+06
PCB-114	1.84e+05	1.46	y	39:09	1.18	8.73	-	-	*			
13C-PCB-114	3.59e+07	1.63	y	39:07	1.50	2010				100	4.55e+06	2.83e+06
PCB-122	1.24e+05	1.47	y	39:17	1.24	5.70	-	-	*			
PCB-105	2.81e+06	1.57	y	39:58	1.20	138	-	-	*			
13C-PCB-105	3.40e+07	1.63	y	39:56	1.50	1900				94.6	4.08e+06	2.46e+06

FAL ID: 11719-005-0001-SA Filename: 30JUL18Z Sam:9 Acquired: 30-JUL-18 18:08:40 ICal: DAILY209FAL4-7-30-18
Client ID: LDW-Y1-IN-ENR+AC-CB-CORE ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 4.990

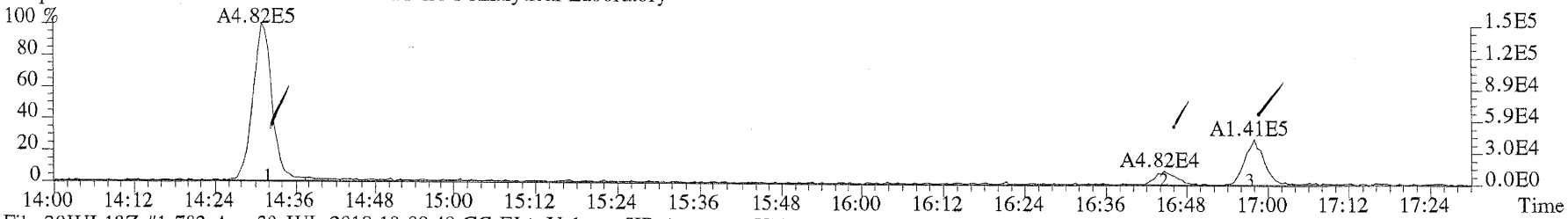
PCB-127	*	*	n	NotFnd	1.10	*		760	630	0.919			
PCB-126	6.04e+04	1.36	y	42:05	1.22	3.32	J	-	-	*			
13C-PCB-126	2.99e+07	1.64	y	42:05	1.38	1810					90.4	3.18e+06	1.96e+06
PCB-151	7.84e+05	1.25	y	37:46	0.82	76.6		-	-	*			
PCB-135	6.34e+05	1.30	y	37:58	0.78	65.0		-	-	*			
PCB-144	2.07e+05	1.16	y	38:04	0.96	17.2		-	-	*			
PCB-147	1.25e+05	1.32	y	38:13	0.89	11.2		-	-	*			
PCB-139	3.88e+06	1.29	y	38:26	0.95	328		-	-	*		Co-elute PCB 149	
PCB-149	3.88e+06	1.29	y	38:26	0.95	328		-	-	*		Co-elute PCB 139	
PCB-140	6.37e+04	1.35	y	38:37	0.91	5.58		-	-	*			
PCB-143	2.92e+05	1.28	y	39:02	0.89	26.2		-	-	*		Co-elute PCB 134	
PCB-134	2.92e+05	1.28	y	39:02	0.89	26.2		-	-	*		Co-elute PCB 143	
PCB-131	1.63e+05	1.27	y	39:19	0.89	14.7		-	-	*		Co-elute PCB 133	
PCB-133	1.63e+05	1.27	y	39:19	0.89	14.7		-	-	*		Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.75	*		570	560	1.52			
PCB-165	7.63e+05	1.28	y	39:42	1.05	58.3		-	-	*		Co-elute PCB 146	
PCB-146	7.63e+05	1.28	y	39:42	1.05	58.3		-	-	*		Co-elute PCB 165	
PCB-161	1.75e+06	1.28	y	39:56	1.00	140		-	-	*		Co-elute PCB 132	
PCB-132	1.75e+06	1.28	y	39:56	1.00	140		-	-	*		Co-elute PCB 161	
PCB-153	4.92e+06	1.28	y	40:05	1.01	390		-	-	*			
PCB-168	*	*	n	NotFnd	1.14	*		570	560	0.999			
PCB-141	8.59e+05	1.17	y	40:46	0.89	77.2		-	-	*			
PCB-137	2.83e+05	1.13	y	41:09	0.90	25.0		-	-	*			
PCB-130	4.01e+05	1.23	y	41:14	0.75	42.9		-	-	*			
PCB-138	6.30e+06	1.28	y	41:35	1.15	437		-	-	*		Co-elute PCB 163/164	
PCB-163	6.30e+06	1.28	y	41:35	1.15	437		-	-	*		Co-elute PCB 138/164	
PCB-164	6.30e+06	1.28	y	41:35	1.15	437		-	-	*		Co-elute PCB 138/163	
PCB-158	8.53e+05	1.26	y	41:48	1.16	58.7		-	-	*		Co-elute PCB 160	
PCB-160	8.53e+05	1.26	y	41:48	1.16	58.7		-	-	*		Co-elute PCB 158	
PCB-129	2.76e+05	1.13	y	42:03	0.75	29.5		-	-	*			
PCB-166	4.70e+04	1.17	y	42:28	1.07	3.50	J	-	-	*			
PCB-159	4.89e+04	1.12	y	42:51	1.16	3.38	J	-	-	*			
PCB-128	1.11e+06	1.25	y	43:02	0.97	91.4		-	-	*		Co-elute PCB 162	
PCB-162	1.11e+06	1.25	y	43:02	0.97	91.4		-	-	*		Co-elute PCB 128	
PCB-167	2.82e+05	1.16	y	43:27	1.06	21.1		-	-	*			
13C-PCB-167	2.53e+07	1.28	y	43:25	1.15	1850					92.3	2.78e+06	2.20e+06
PCB-156	6.78e+05	1.20	y	44:41	1.12	49.3		-	-	*			
13C-PCB-156	2.46e+07	1.31	y	44:40	1.10	1870					93.4	2.80e+06	2.09e+06
PCB-157	1.94e+05	1.35	y	44:56	1.13	13.3		-	-	*			
13C-PCB-157	2.59e+07	1.29	y	44:54	1.15	1890					94.1	2.81e+06	2.21e+06
PCB-169	*	*	n	NotFnd	1.09	*		570	560	1.05			
13C-PCB-169	2.45e+07	1.29	y	46:48	1.08	1890					94.3	2.80e+06	2.14e+06

FAL ID: 11719-005-0001-SA Filename: 30JUL18Z Sam:9 Acquired: 30-JUL-18 18:08:40 ICal: DAILY209FAL4-7-30-18
Client ID: LDW-Y1-IN-ENR+AC-CB-CORE ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 4.990

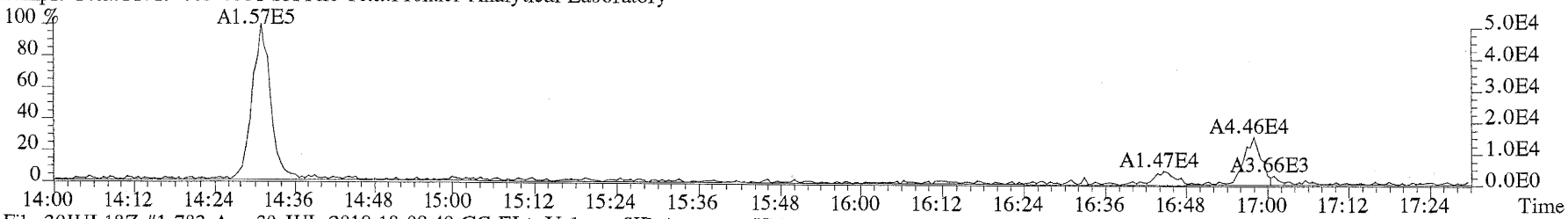
PCB-188	*	*	n	NotFnd	1.14	*		464	228	0.757			
13C-PCB-188	1.96e+07	1.10	y	39:40	0.92	1790					89.2	2.08e+06	1.93e+06
PCB-184	*	*	n	NotFnd	1.18	*		464	228	0.671			
PCB-179	3.29e+05	1.12	y	40:52	1.10	31.6		-	-	*			
PCB-176	1.10e+05	1.15	y	41:17	1.07	10.8		-	-	*			
PCB-186	*	*	n	NotFnd	1.10	*		464	228	0.720			
PCB-178	1.37e+05	1.20	y	42:21	0.79	18.2		-	-	*			
PCB-175	2.50e+04	1.14	y	42:39	0.83	3.17	J	-	-	*			
PCB-187	8.26e+05	1.05	y	42:49	0.91	95.5		-	-	*		Co-elute PCB 182	
PCB-182	8.26e+05	1.05	y	42:49	0.91	95.5		-	-	*		Co-elute PCB 187	
PCB-183	3.93e+05	1.02	y	43:07	0.88	47.0		-	-	*			
PCB-185	6.36e+04	0.96	y	43:47	0.85	7.91		-	-	*			
PCB-174	6.08e+05	1.14	y	44:07	0.82	78.0		-	-	*			
PCB-181	*	*	n	NotFnd	0.85	*		464	228	0.930			
PCB-177	3.87e+05	1.19	y	44:21	0.76	53.6		-	-	*			
PCB-171	1.80e+05	1.05	y	44:40	0.81	23.6		-	-	*			
PCB-173	*	*	n	NotFnd	0.74	*		464	228	1.07			
PCB-172	1.10e+05	1.11	y	45:27	0.73	16.0		-	-	*			
PCB-192	*	*	n	NotFnd	1.06	*		464	228	0.749			
PCB-180	1.37e+06	1.09	y	45:49	1.02	141		-	-	*			
PCB-193	9.75e+04	1.13	y	45:59	1.10	9.36		-	-	*			
PCB-191	5.02e+04	1.05	y	46:12	1.01	5.26		-	-	*			
PCB-170	6.39e+05	1.05	y	47:06	0.75	90.4		-	-	*			
PCB-190	1.83e+05	1.02	y	47:14	0.98	19.6		-	-	*			
PCB-189	4.59e+04	1.06	y	48:28	1.12	4.45		-	-	*			
13C-PCB-189	1.84e+07	1.07	y	48:27	0.82	1880					93.6	2.52e+06	2.30e+06
PCB-202	5.48e+04	0.78	y	44:48	1.01	8.97		-	-	*			
PCB-201	3.05e+04	0.77	y	45:16	0.99	5.08		-	-	*			
PCB-204	*	*	n	NotFnd	0.96	*		184	224	0.811			
PCB-197	1.21e+04	0.92	y	45:40	1.06	1.88	J	-	-	*			
PCB-200	3.37e+04	0.77	y	46:25	0.98	5.66		-	-	*			
PCB-198	*	*	n	NotFnd	0.72	*		184	224	1.09			
PCB-199	1.93e+05	1.01	y	47:42	0.78	41.0		-	-	*			
PCB-203	2.16e+05	0.99	y	47:57	0.82	43.4		-	-	*		Co-elute PCB 196	
PCB-196	2.16e+05	0.99	y	47:57	0.82	43.4		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.21e+07	0.91	y	44:48	0.59	1730					86.5	1.24e+06	1.38e+06
13C-PCB-178	1.49e+07	1.07	y	42:20	0.65	1910					95.1	1.56e+06	1.47e+06
13C-PCB-138	2.39e+07	1.29	y	41:34	-	16.4							
PCB-195	1.87e+05	1.01	y	49:02	0.79	14.5		-	-	*			
PCB-194	5.70e+05	0.88	y	49:50	0.85	40.8		-	-	*			
PCB-205	3.80e+04	0.77	y	50:07	1.15	2.02	J	-	-	*			
13C-PCB-205	3.28e+07	0.91	y	50:06	1.30	1700					84.8	4.93e+06	5.22e+06
PCB-208	5.79e+04	1.16	y	49:08	1.05	4.37		-	-	*			
13C-PCB-208	2.52e+07	0.81	y	49:08	1.04	1640					81.7	3.84e+06	4.81e+06
PCB-207	2.65e+04	1.31	y	49:26	1.07	2.21	J	-	-	*			
PCB-206	1.67e+05	1.53	y	51:18	1.04	16.3		-	-	*			
13C-PCB-206	1.98e+07	0.81	y	51:16	0.86	1550					77.4	2.71e+06	3.34e+06
PCB-209	1.45e+05	1.33	y	52:28	1.10	12.0		-	-	*			
13C-PCB-209	2.20e+07	1.22	y	52:27	0.98	1520					75.9	3.85e+06	3.24e+06
13C-PCB-194	2.97e+07	0.91	y	49:50	-	18.9							

Analyst: _____ Date: 8/20/18

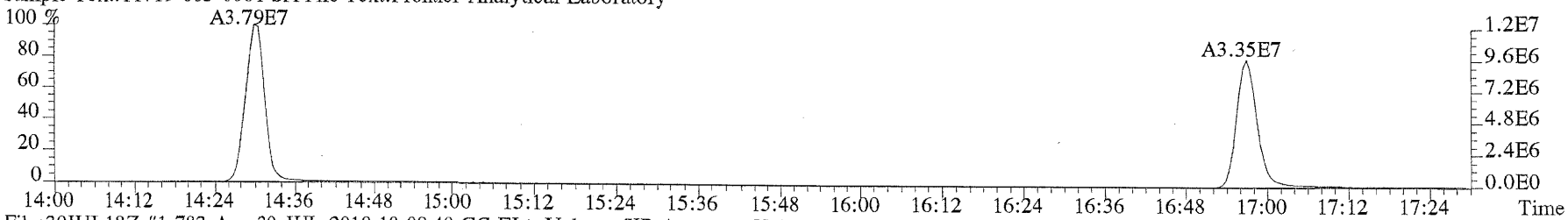
File:30JUL18Z #1-783 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



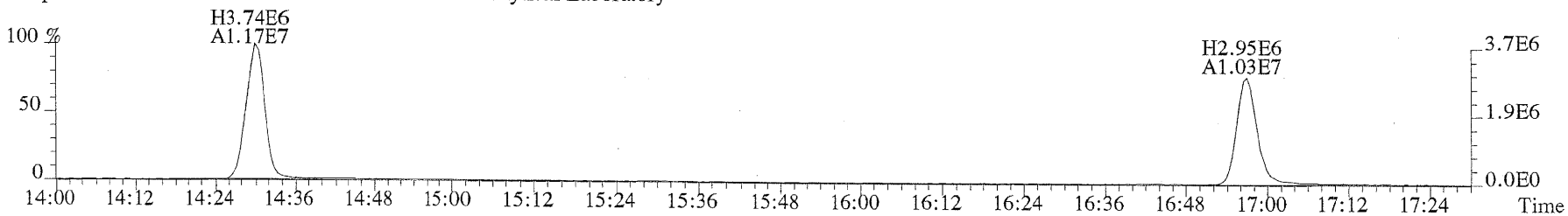
File:30JUL18Z #1-783 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



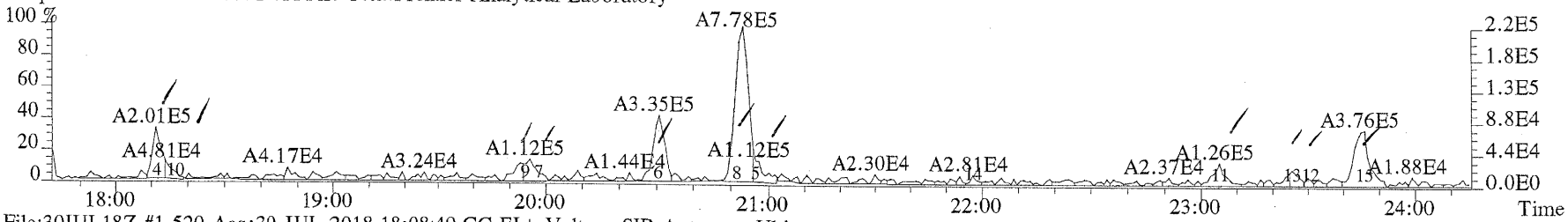
File:30JUL18Z #1-783 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



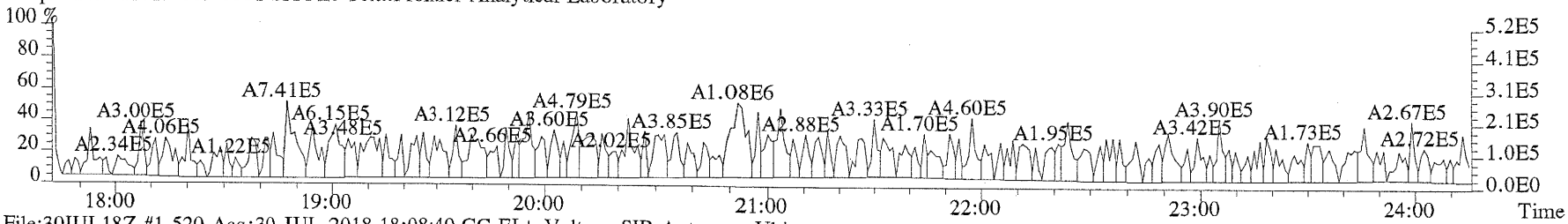
File:30JUL18Z #1-783 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



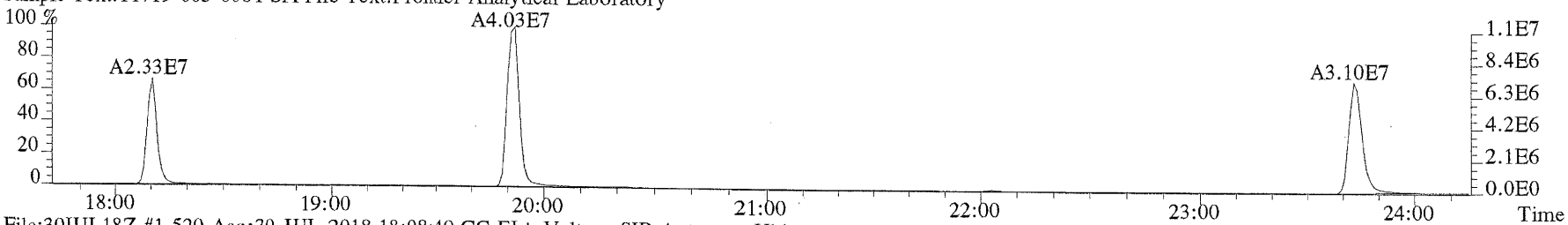
File:30JUL18Z #1-520 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



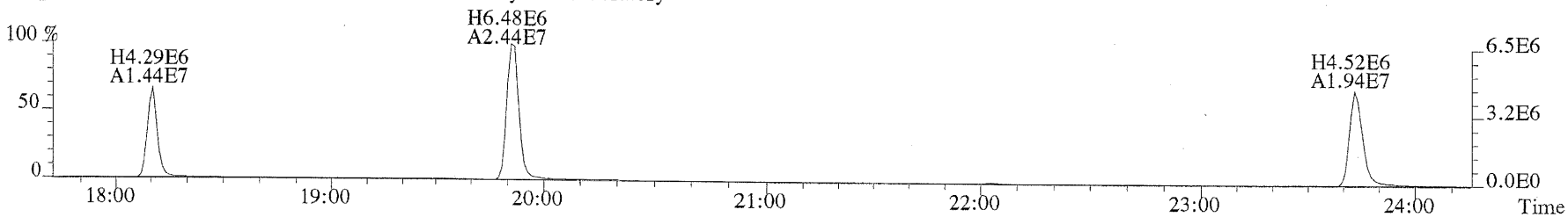
File:30JUL18Z #1-520 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



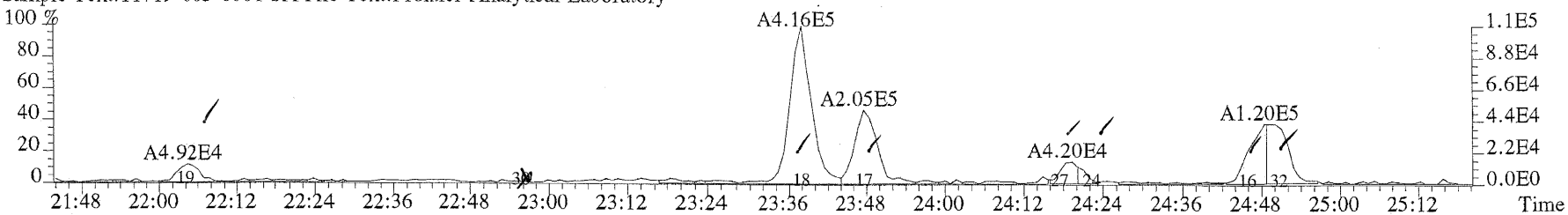
File:30JUL18Z #1-520 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



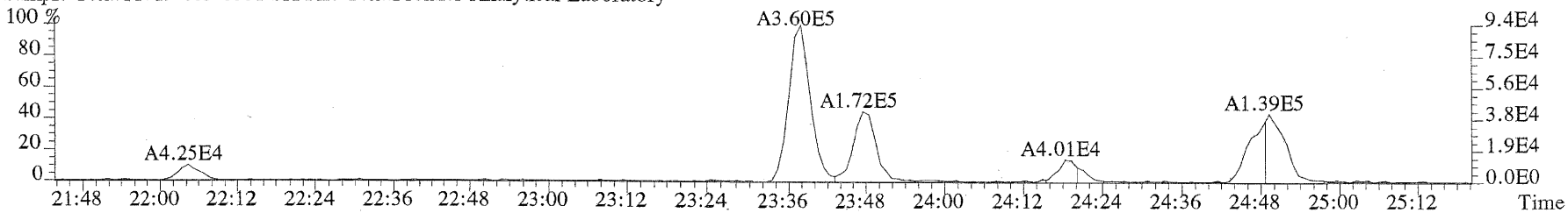
File:30JUL18Z #1-520 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



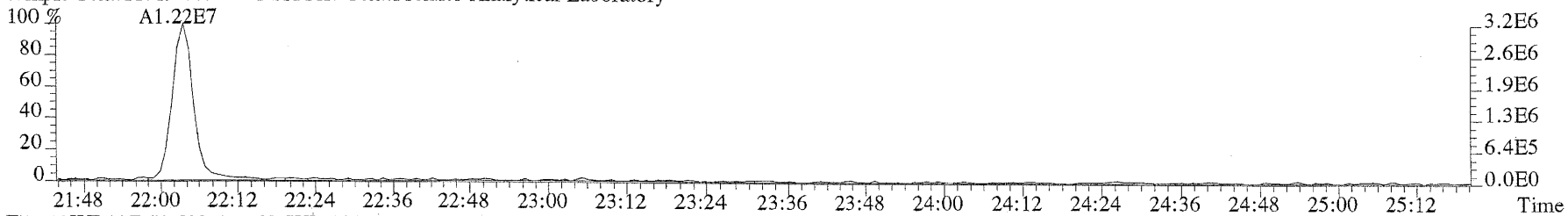
File:30JUL18Z #1-520 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



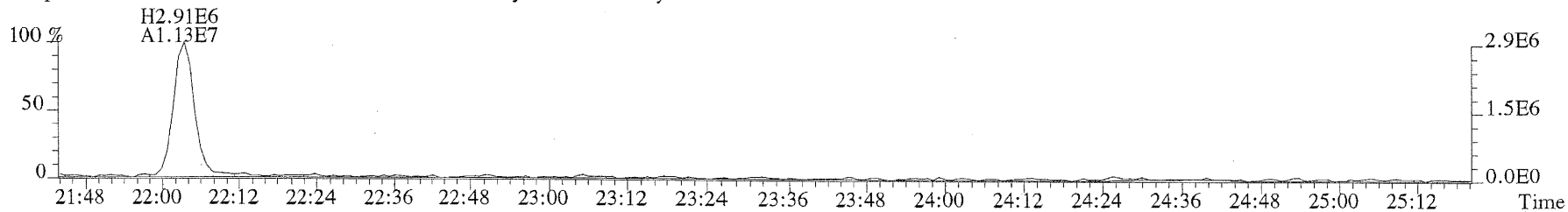
File:30JUL18Z #1-520 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



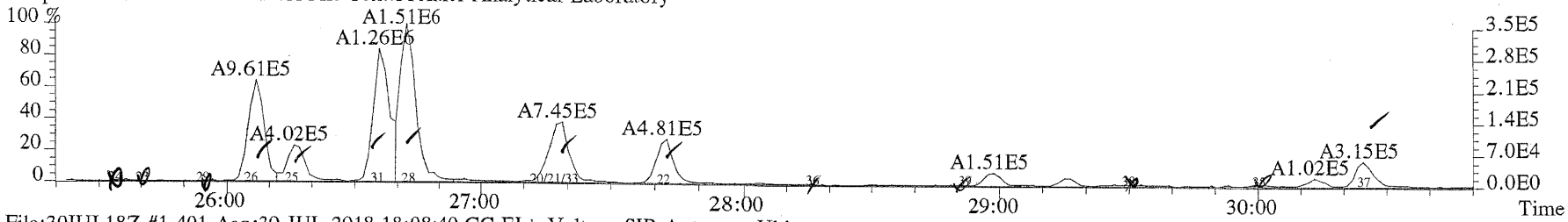
File:30JUL18Z #1-520 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



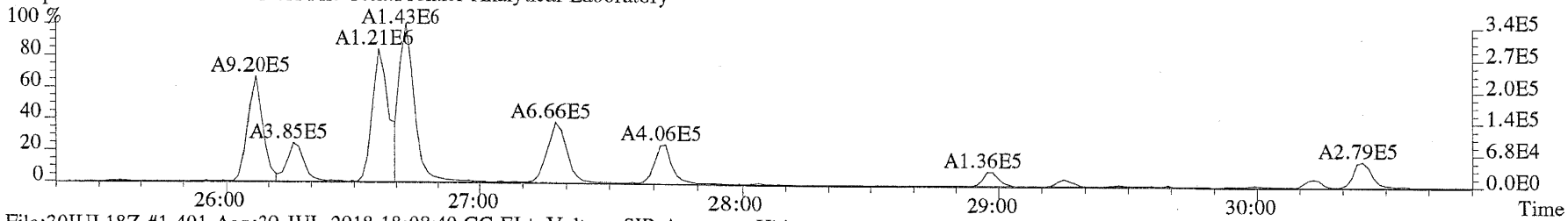
File:30JUL18Z #1-520 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



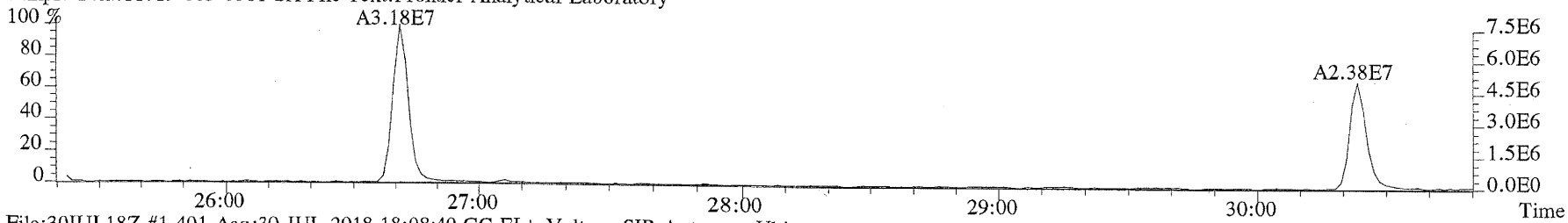
File:30JUL18Z #1-401 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



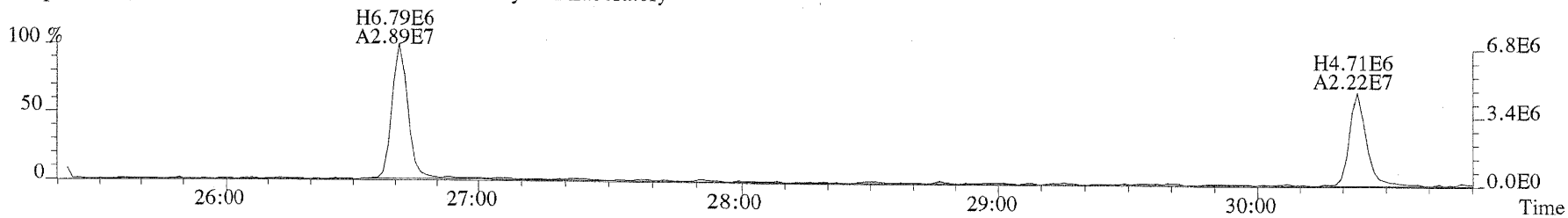
File:30JUL18Z #1-401 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



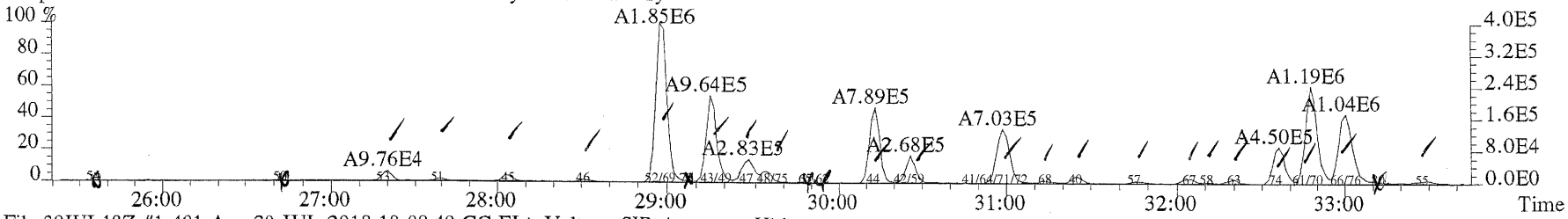
File:30JUL18Z #1-401 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



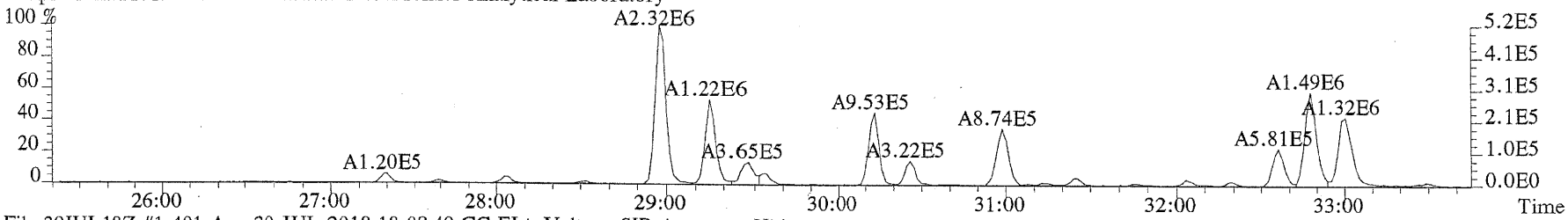
File:30JUL18Z #1-401 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



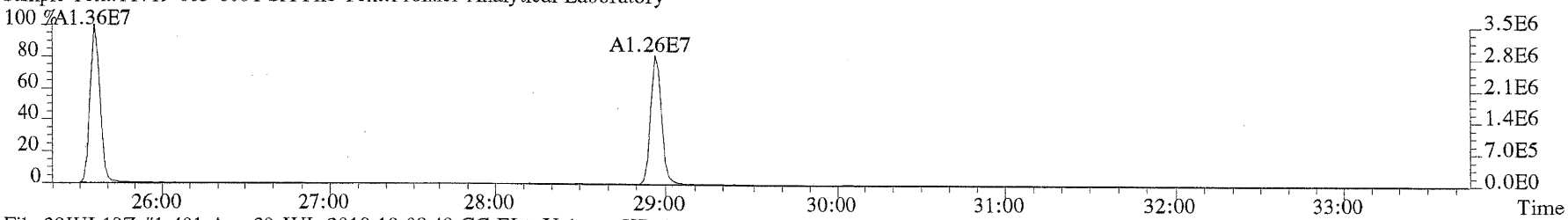
File:30JUL18Z #1-401 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



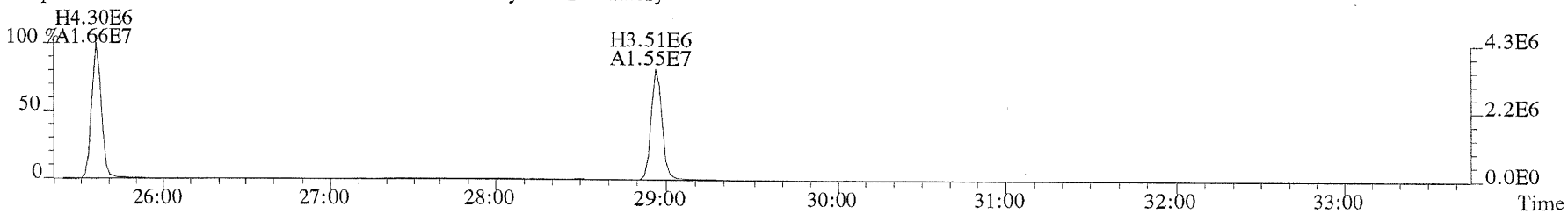
File:30JUL18Z #1-401 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



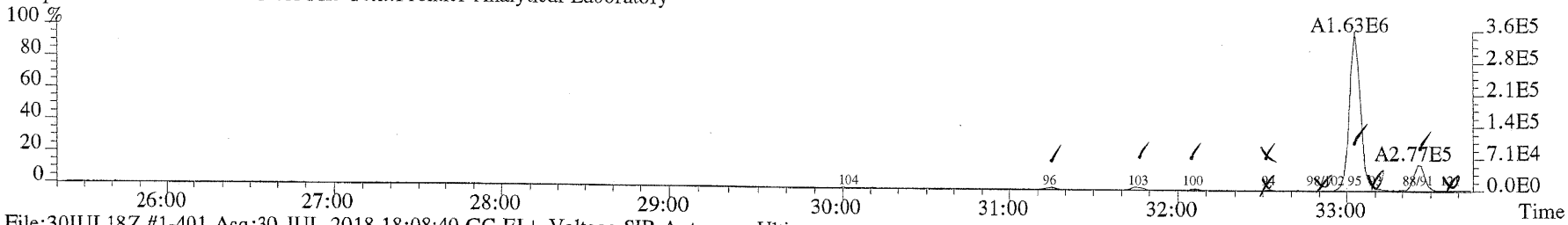
File:30JUL18Z #1-401 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



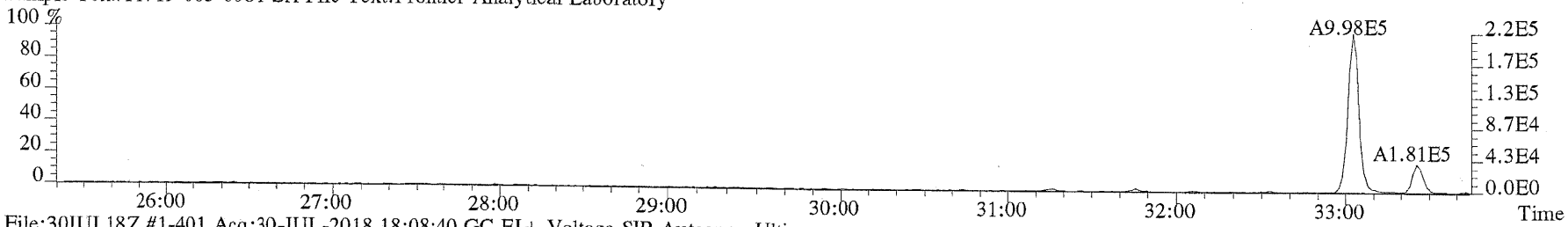
File:30JUL18Z #1-401 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



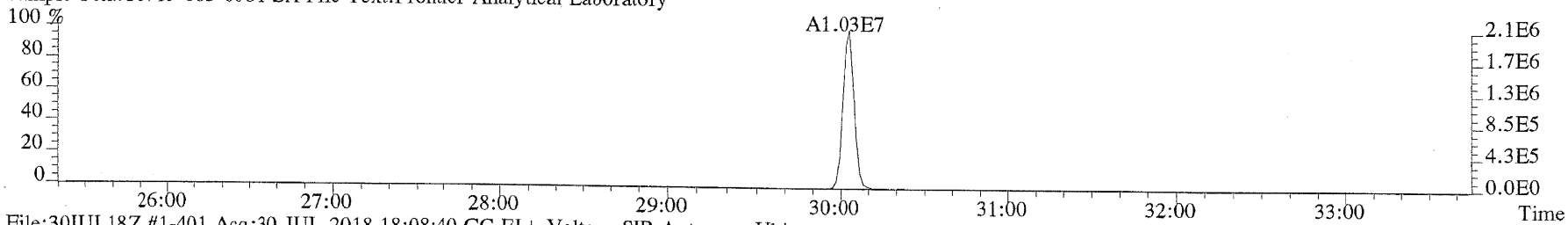
File:30JUL18Z #1-401 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



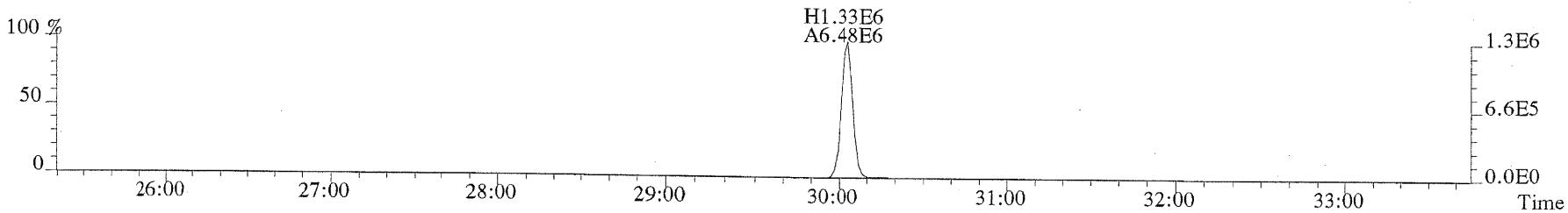
File:30JUL18Z #1-401 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



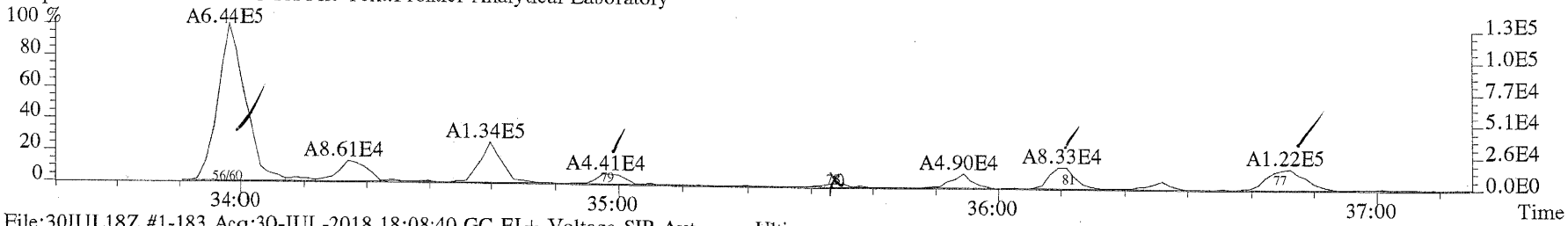
File:30JUL18Z #1-401 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



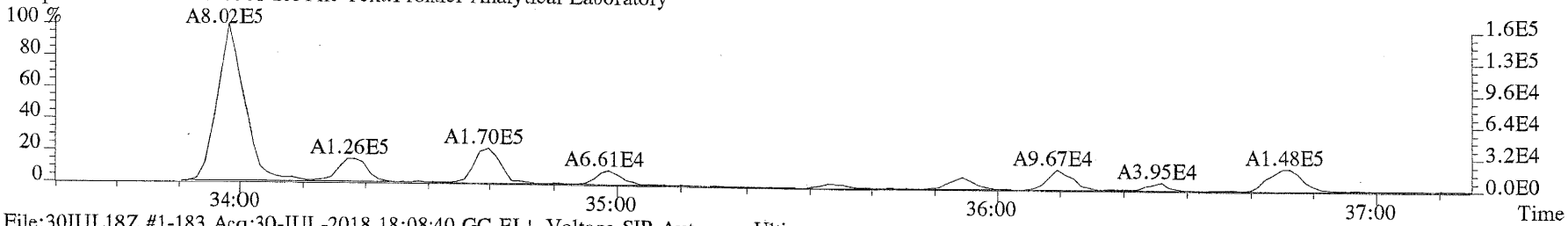
File:30JUL18Z #1-401 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



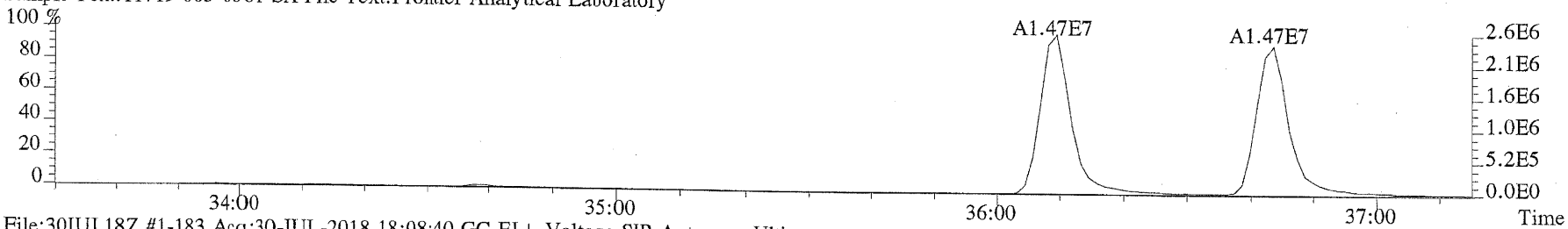
File:30JUL18Z #1-183 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



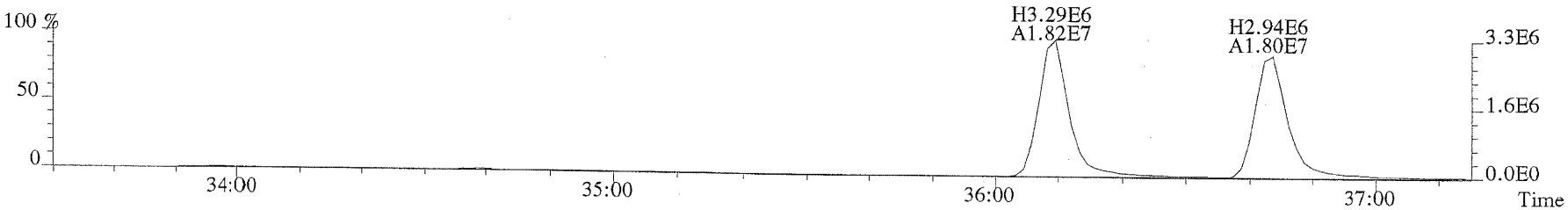
File:30JUL18Z #1-183 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



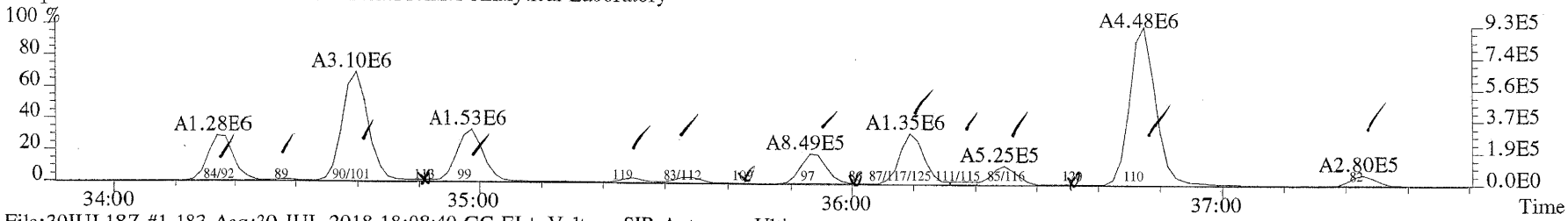
File:30JUL18Z #1-183 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



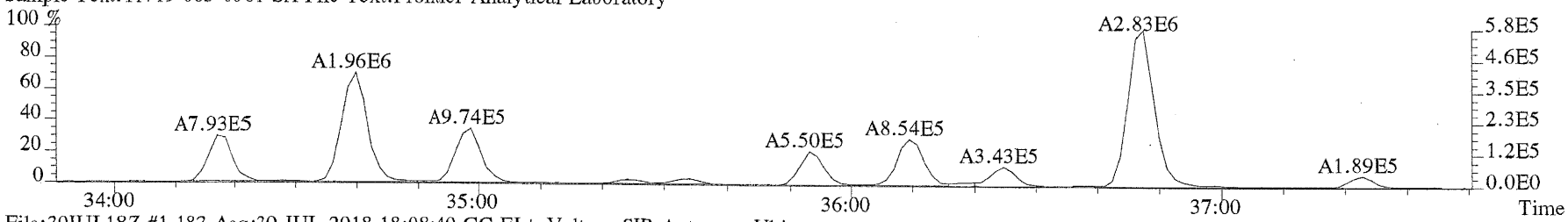
File:30JUL18Z #1-183 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



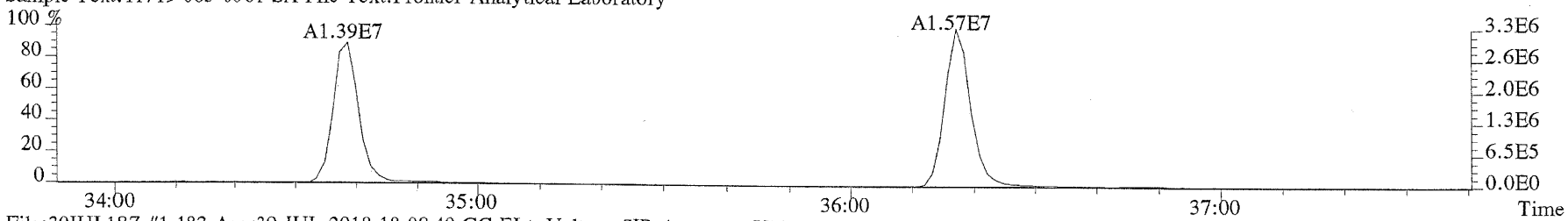
File:30JUL18Z #1-183 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



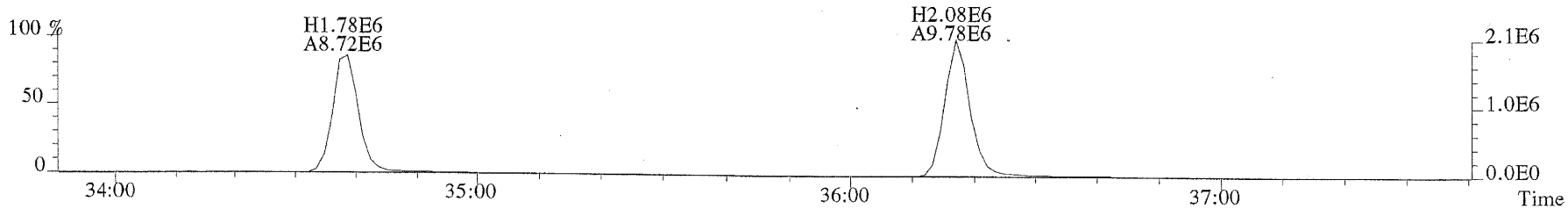
File:30JUL18Z #1-183 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



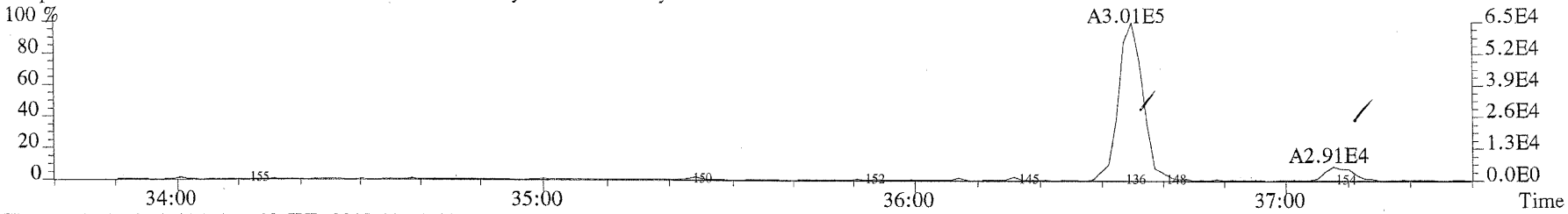
File:30JUL18Z #1-183 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



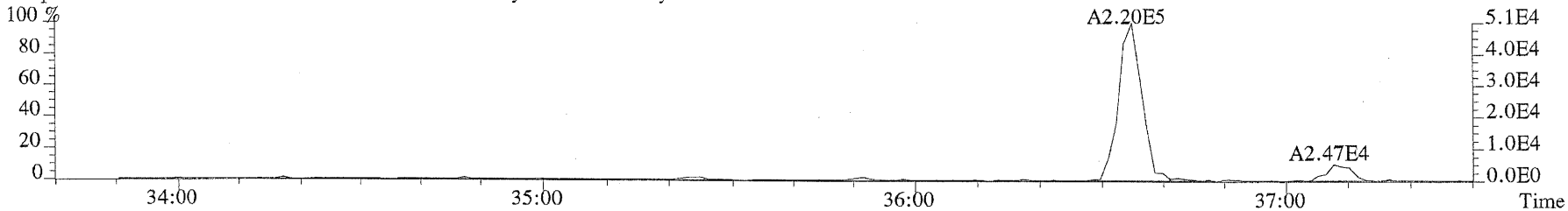
File:30JUL18Z #1-183 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



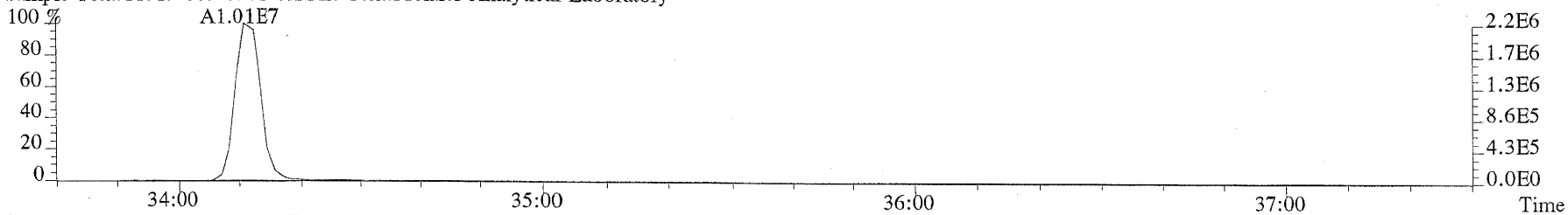
File:30JUL18Z #1-183 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



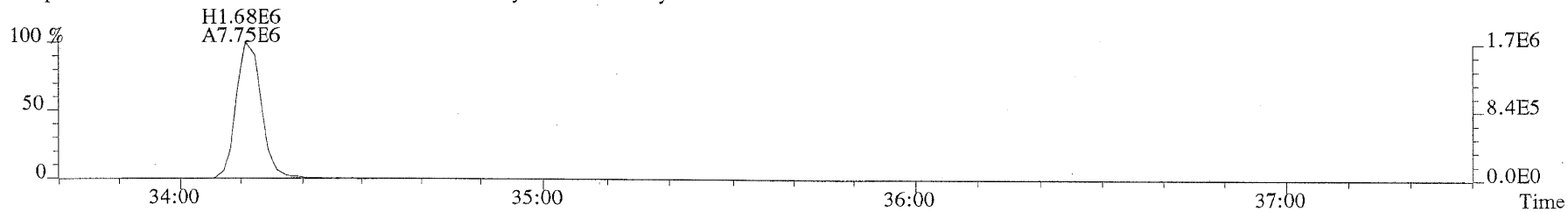
File:30JUL18Z #1-183 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



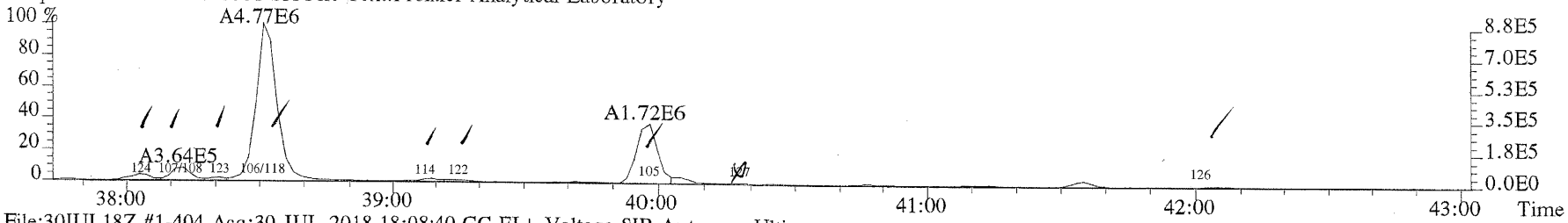
File:30JUL18Z #1-183 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



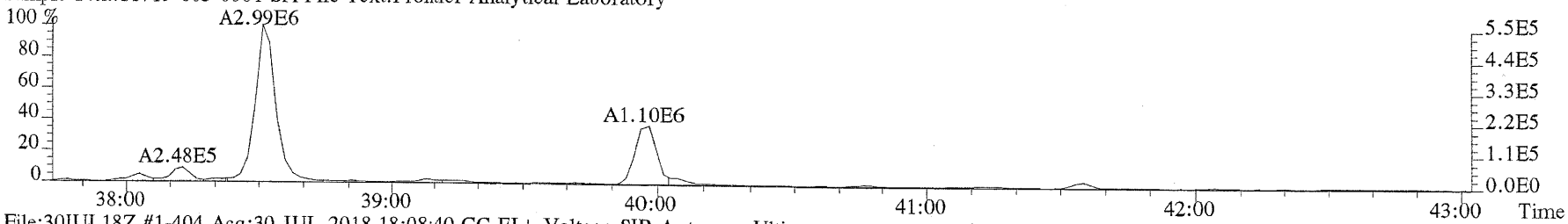
File:30JUL18Z #1-183 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



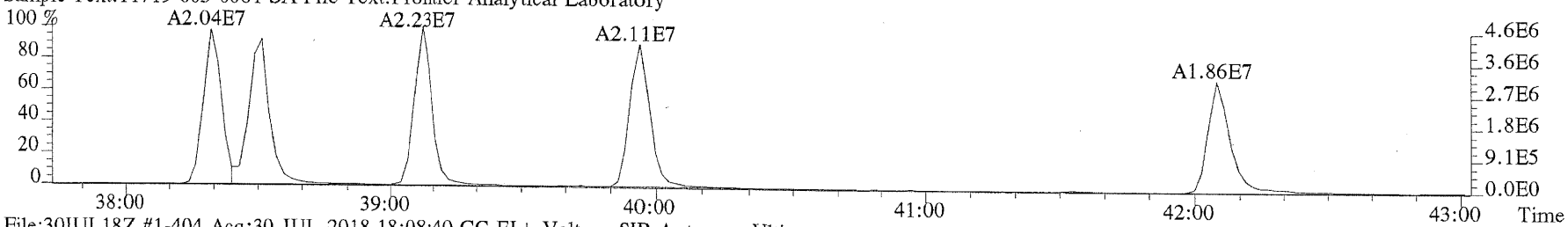
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



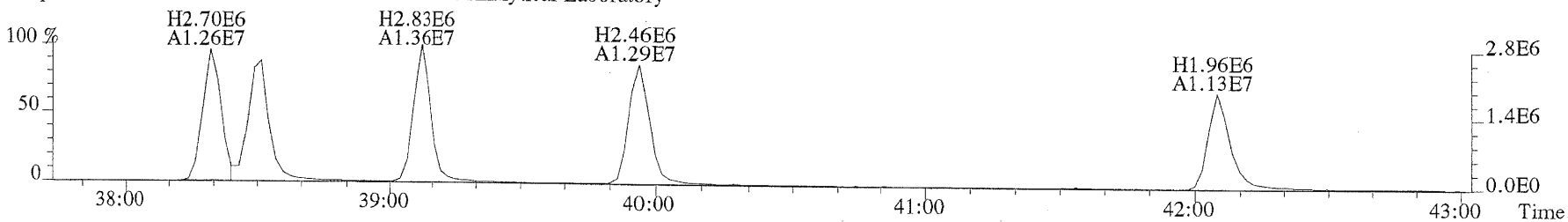
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



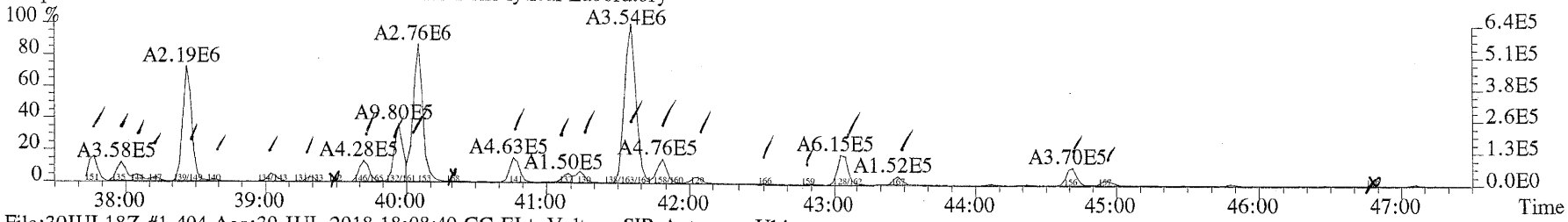
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



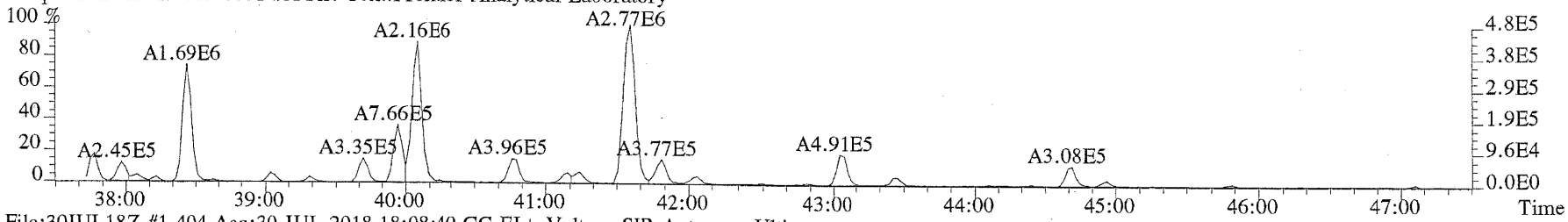
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



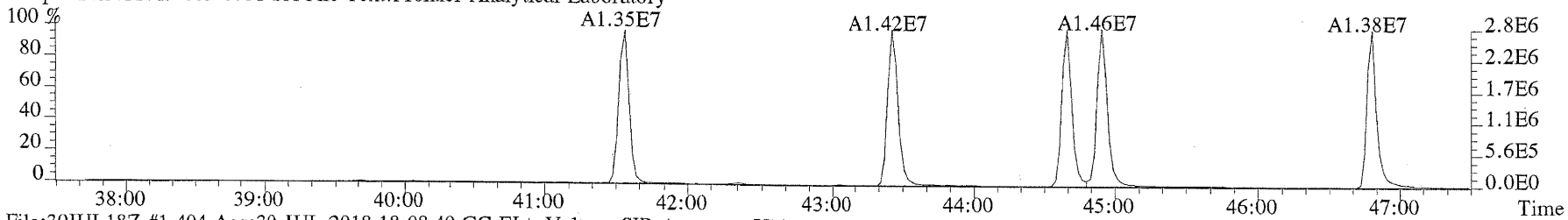
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



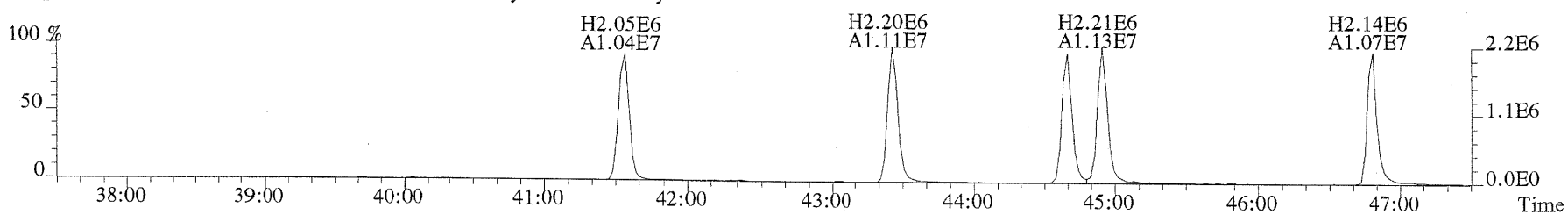
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



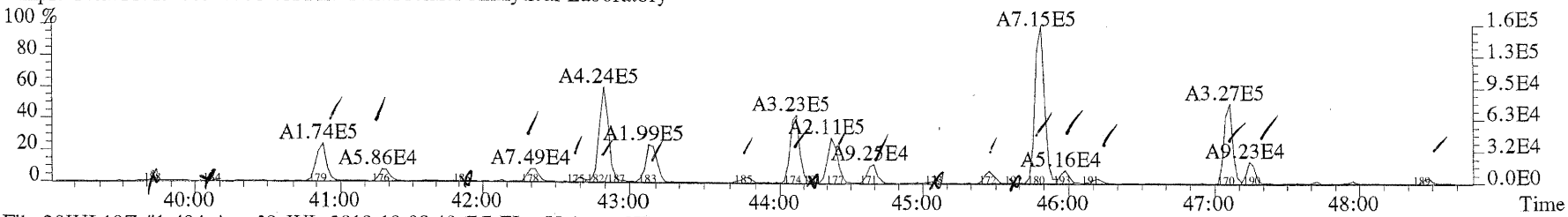
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



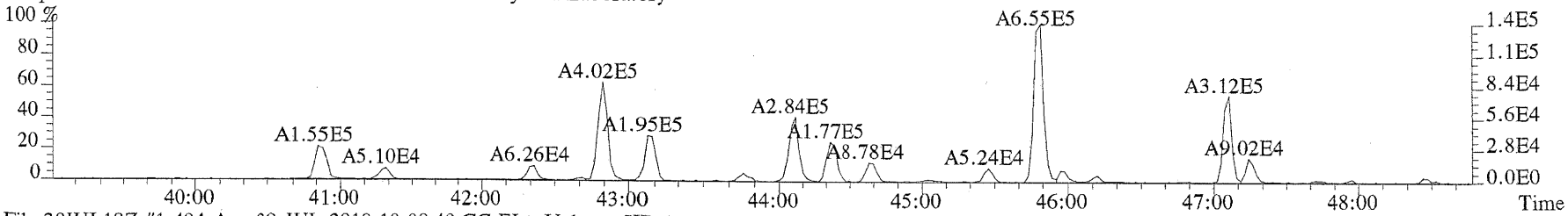
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



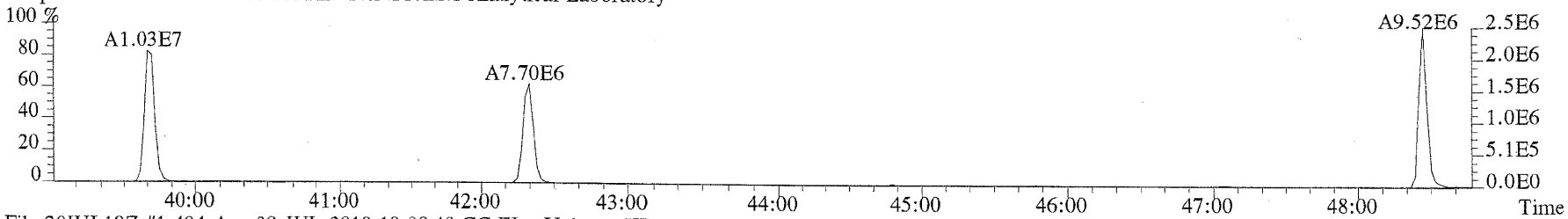
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



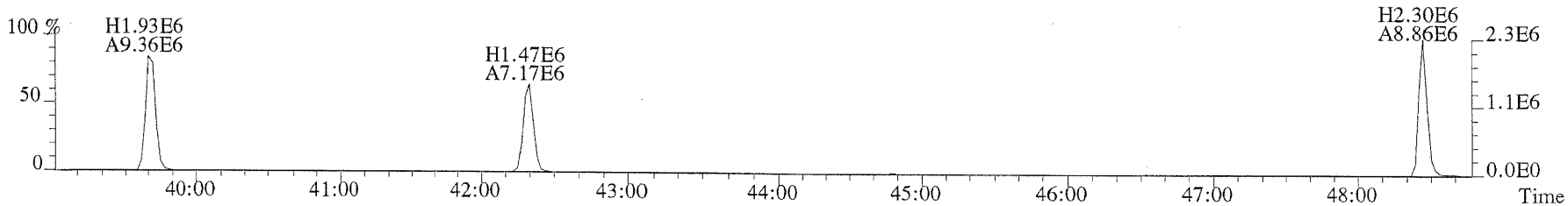
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



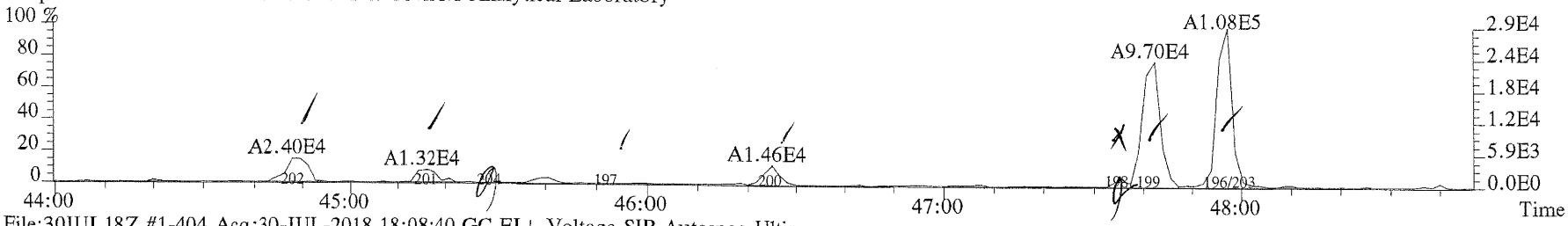
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



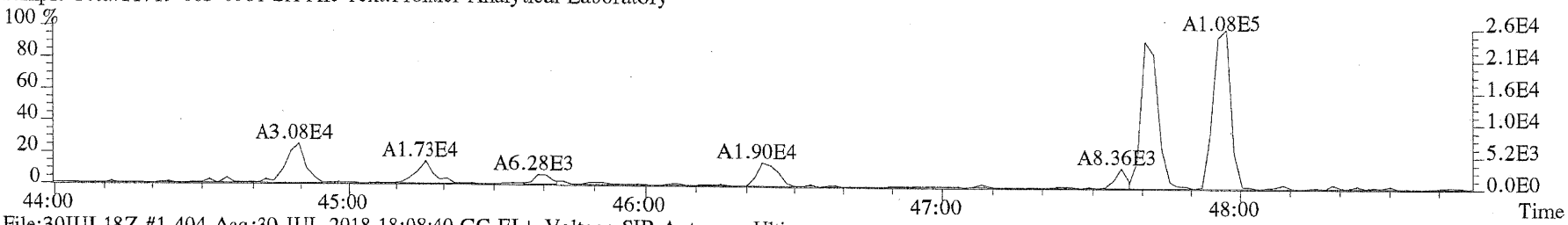
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



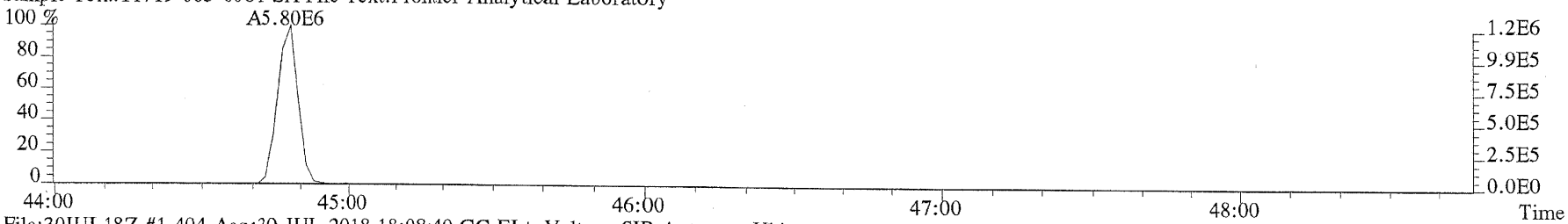
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



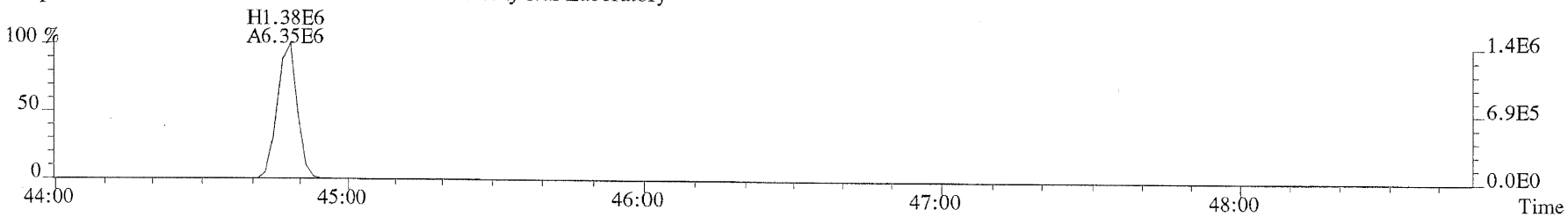
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



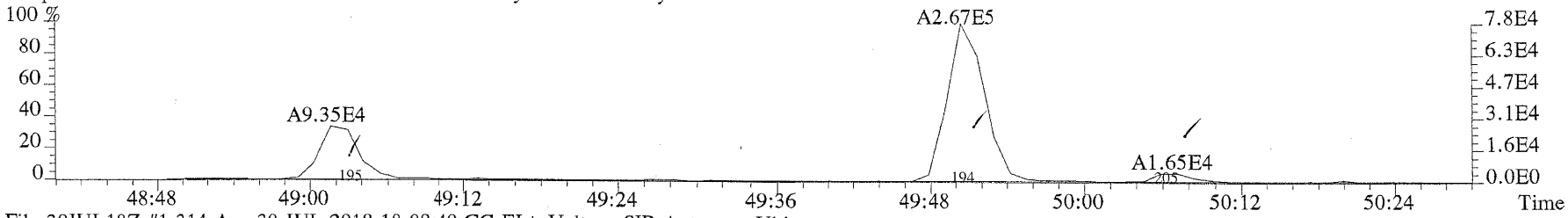
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



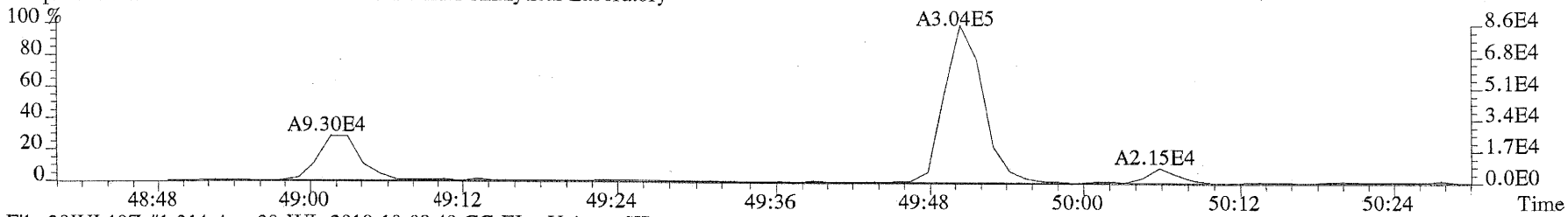
File:30JUL18Z #1-404 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



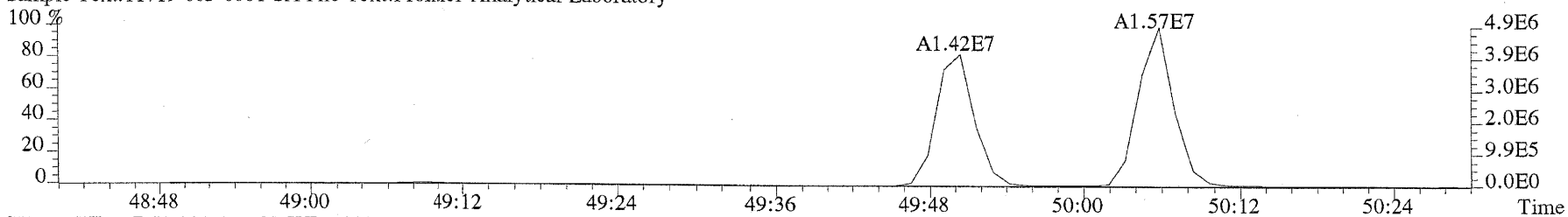
File:30JUL18Z #1-314 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



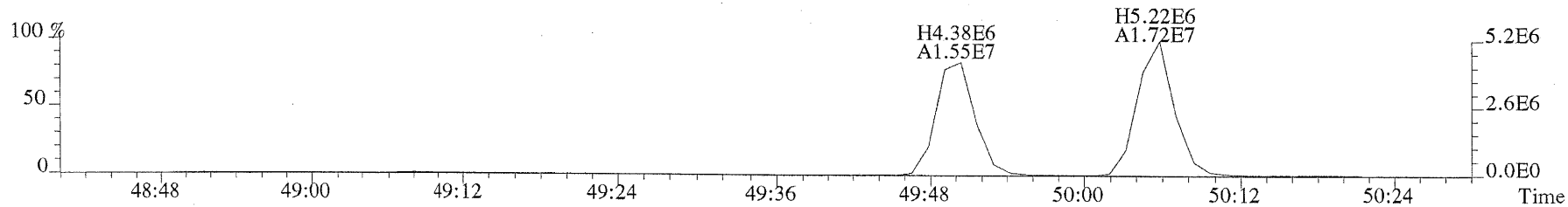
File:30JUL18Z #1-314 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



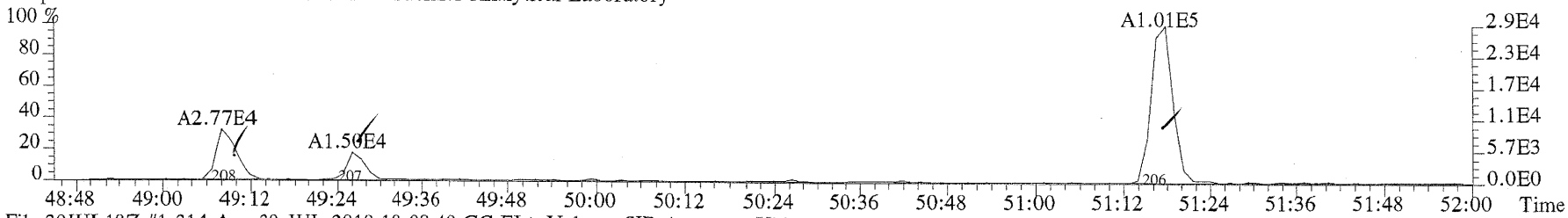
File:30JUL18Z #1-314 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



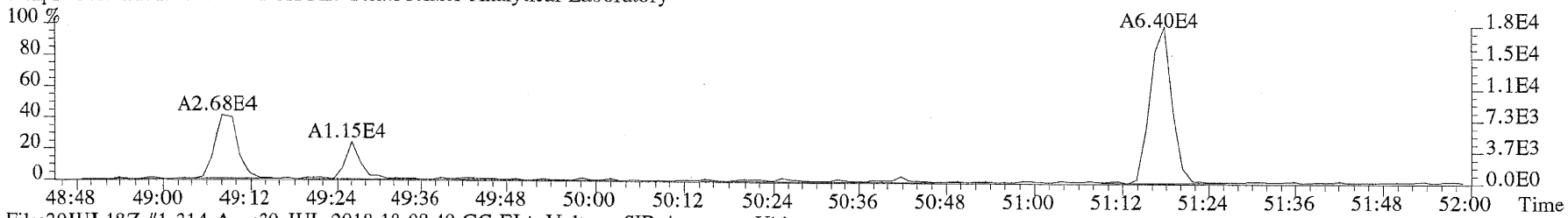
File:30JUL18Z #1-314 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



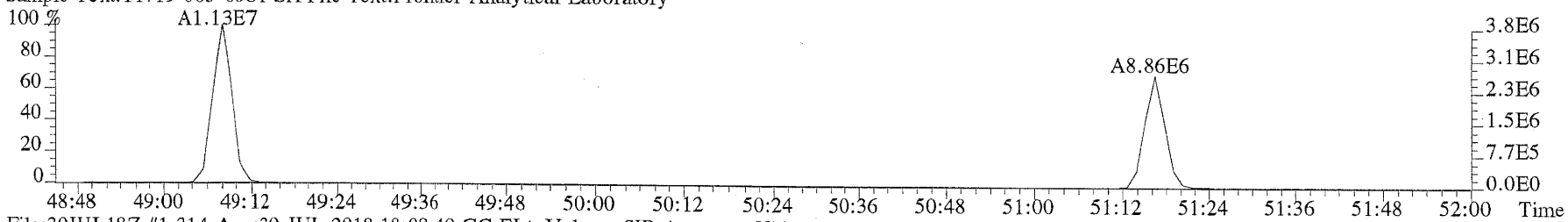
File:30JUL18Z #1-314 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



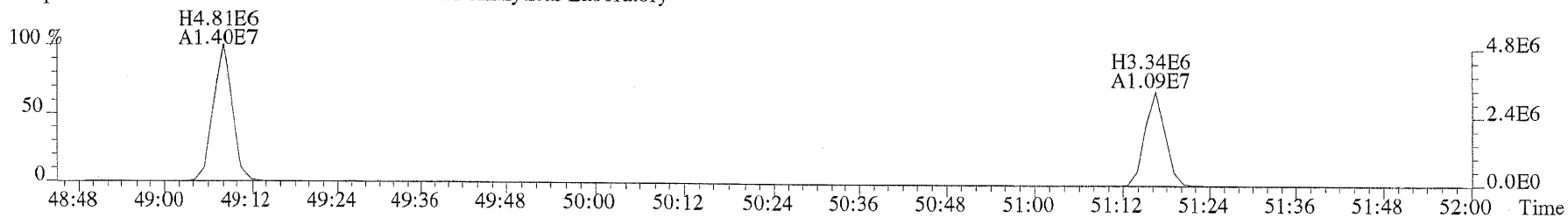
File:30JUL18Z #1-314 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



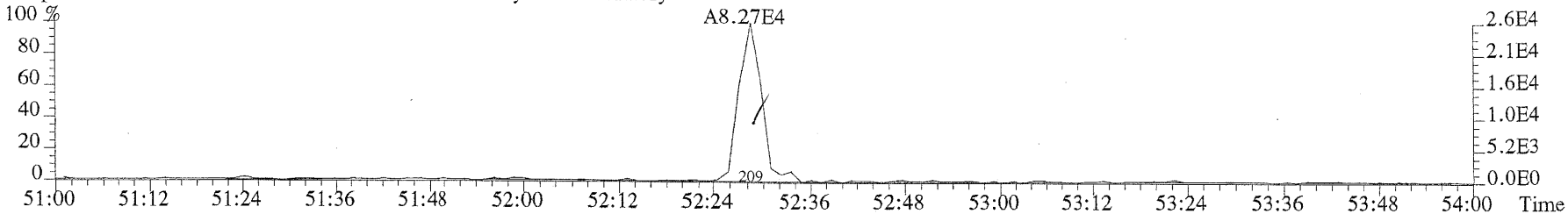
File:30JUL18Z #1-314 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



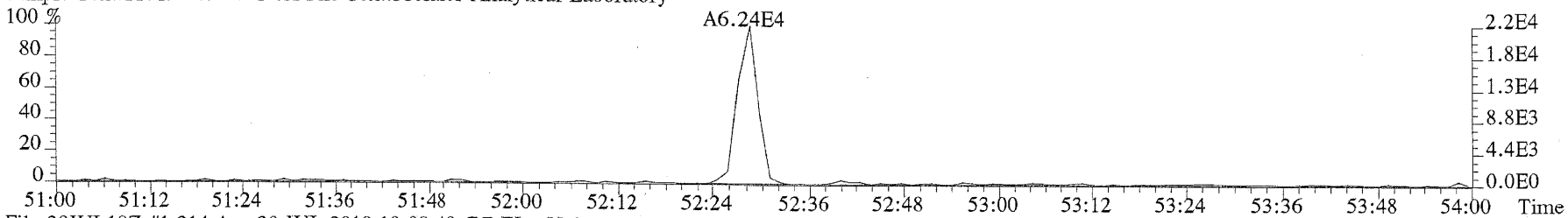
File:30JUL18Z #1-314 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



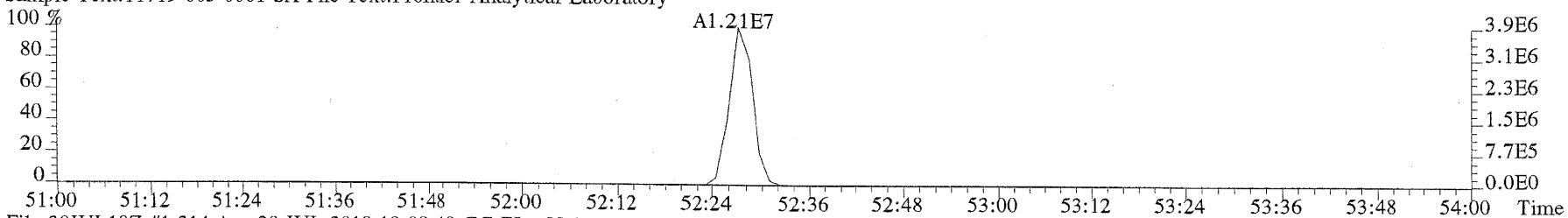
File:30JUL18Z #1-314 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



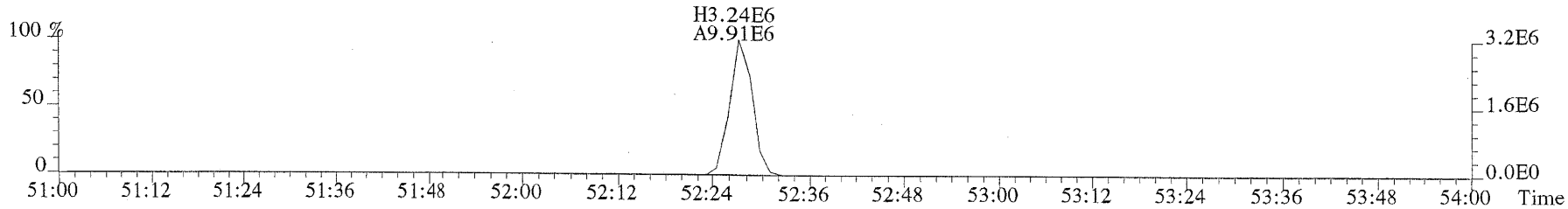
File:30JUL18Z #1-314 Acq:30-JUL-2018 18:08:40 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-005-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-314 Acq:30-JUL-2018 18:08:40 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:11719-005-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-314 Acq:30-JUL-2018 18:08:40 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:11719-005-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-006-0001-SA Filename: 30JUL18Z Sam:10 Acquired: 30-JUL-18 19:07:26 ICal: DAILY209FAL4-7-30-18
Client ID: LDW-Y1-IN-ENR+AC-CC-CORE ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 5.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	2.56e+05	3.19 y	14:31	1.20	7.97		-	-	*			
13C-PCB-1	5.37e+07	3.19 y	14:30	0.92	1750					87.3	1.36e+07	4.29e+06
PCB-2	5.29e+04	2.98 y	16:46	1.08	1.95	J	-	-	*			
PCB-3	1.70e+05	2.96 y	16:58	1.19	6.09		-	-	*			
13C-PCB-3	4.71e+07	3.24 y	16:57	0.90	1570					78.5	1.08e+07	3.35e+06
PCB-4	2.80e+05	1.53 y	18:11	1.40	10.0		-	-	*			
PCB-10	6.00e+04	1.48 y	18:15	1.27	1.95	J	-	-	*			
13C-PCB-4	3.99e+07	1.62 y	18:11	0.68	1780					88.8	7.34e+06	4.45e+06
PCB-9	8.87e+04	1.49 y	19:52	1.40	2.60	J	-	-	*			
PCB-7	1.23e+05	1.44 y	19:55	1.49	3.37	J	-	-	*			
PCB-6	5.76e+05	1.54 y	20:30	1.40	16.9		-	-	*			
PCB-8	1.02e+06	1.60 y	20:52	1.37	30.6		-	-	*			
PCB-5	9.04e+04	1.59 y	20:56	1.45	2.56	J	-	-	*			
PCB-14	*	* n	NotFnd	1.34	*		812	1290	0.610			
PCB-11	2.45e+05	1.52 y	23:04	1.29	7.80		-	-	*			
PCB-13	1.24e+05	1.41 y	23:24	1.33	3.83	J	-	-	*			
PCB-12	1.59e+05	1.61 y	23:26	1.41	4.61		-	-	*			
PCB-15	6.71e+05	1.33 y	23:45	1.33	17.6		-	-	*			
13C-PCB-15	5.75e+07	1.64 y	23:43	1.00	1730					86.7	8.50e+06	5.30e+06
PCB-19	6.96e+04	1.15 y	22:04	1.21	4.72		-	-	*			
PCB-30	*	* n	NotFnd	1.67	*		880	920	0.837			
PCB-18	5.68e+05	1.12 y	23:38	1.17	39.7		-	-	*			
PCB-17	2.75e+05	1.16 y	23:48	1.28	17.6		-	-	*			
PCB-27	5.71e+04	1.05 y	24:19	1.57	2.98	J	-	-	*			
PCB-24	4.74e+04	1.15 y	24:20	1.72	2.26	J	-	-	*			
PCB-16	2.15e+05	1.11 y	24:49	1.40	12.6		-	-	*			
PCB-32	1.93e+05	0.89 y	24:50	1.46	10.8		-	-	*			
13C-PCB-19	2.44e+07	1.09 y	22:04	0.41	1770					88.7	3.30e+06	3.15e+06
13C-PCB-9	6.66e+07	1.65 y	19:51	-	18.2							
PCB-34	*	* n	NotFnd	1.28	*		704	740	0.712			
PCB-23	*	* n	NotFnd	1.27	*		704	740	0.716			
PCB-29	*	* n	NotFnd	1.33	*		704	740	0.687			
PCB-26	1.78e+06	1.10 y	26:07	1.26	52.5		-	-	*			
PCB-25	6.81e+05	1.17 y	26:17	1.59	15.9		-	-	*			
PCB-31	1.65e+06	1.10 y	26:36	1.29	47.5		-	-	*			
PCB-28	2.01e+06	1.05 y	26:42	1.56	47.7		-	-	*			
PCB-20	8.39e+05	1.08 y	27:18	1.33	23.3		-	-	*		Co-elute PCB 21/33	
PCB-21	8.39e+05	1.08 y	27:18	1.33	23.3		-	-	*		Co-elute PCB 20/33	
PCB-33	8.39e+05	1.08 y	27:18	1.33	23.3		-	-	*		Co-elute PCB 20/21	
PCB-22	5.36e+05	1.15 y	27:42	1.35	14.7		-	-	*			
PCB-36	*	* n	NotFnd	1.21	*		704	740	0.755			
PCB-39	*	* n	NotFnd	1.27	*		704	740	0.717			
PCB-38	*	* n	NotFnd	1.28	*		704	740	0.713			
PCB-35	*	* n	NotFnd	1.15	*		704	740	0.793			
PCB-37	4.94e+05	1.10 y	30:29	1.37	13.4		-	-	*			
13C-PCB-37	5.39e+07	1.11 y	30:27	1.82	1820					91.1	4.13e+06	3.77e+06

PCB-54	*	*	n	NotFnd	1.19	*		540	896	0.740			
PCB-50	*	*	n	NotFnd	0.91	*		540	896	0.972			
PCB-53	1.33e+05	0.74	y	27:20	0.92	9.12		-	-	*			
PCB-51	5.63e+04	0.85	y	27:39	0.93	3.79	J	-	-	*			
PCB-45	8.11e+04	0.84	y	28:03	0.78	6.57		-	-	*			
PCB-46	3.13e+04	0.82	y	28:32	0.76	2.60	J	-	-	*			
PCB-52	3.23e+06	0.81	y	28:58	1.06	193		-	-	*	Co-elute PCB 69		
PCB-69	3.23e+06	0.81	y	28:58	1.06	193		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.26	*		540	896	0.700			
PCB-43	1.61e+06	0.83	y	29:15	0.88	115		-	-	*	Co-elute PCB 49		
PCB-49	1.61e+06	0.83	y	29:15	0.88	115		-	-	*	Co-elute PCB 43		
PCB-47	4.62e+05	0.80	y	29:28	1.14	25.4		-	-	*			
PCB-48	2.08e+05	0.84	y	29:34	1.10	11.9		-	-	*	Co-elute PCB 75		
PCB-75	2.08e+05	0.84	y	29:34	1.10	11.9		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.07	*		540	896	0.821			
PCB-62	*	*	n	NotFnd	1.19	*		540	896	0.741			
PCB-44	1.21e+06	0.81	y	30:15	0.81	94.1		-	-	*			
PCB-42	4.96e+05	0.73	y	30:30	1.08	28.9		-	-	*	Co-elute PCB 59		
PCB-59	4.96e+05	0.73	y	30:30	1.08	28.9		-	-	*	Co-elute PCB 42		
PCB-72	1.13e+06	0.83	y	31:09	1.15	61.5		-	-	*	Co-elute PCB 41/71/64		
PCB-41	1.13e+06	0.83	y	31:09	1.15	61.5		-	-	*	Co-elute PCB 72/71/64		
PCB-71	1.13e+06	0.83	y	31:09	1.15	61.5		-	-	*	Co-elute PCB 72/41/64		
PCB-64	1.13e+06	0.83	y	31:09	1.15	61.5		-	-	*	Co-elute PCB 72/41/71		
PCB-68	4.67e+04	0.87	y	31:24	1.26	2.33	J	-	-	*			
PCB-40	1.01e+05	0.86	y	31:33	0.71	9.02		-	-	*			
PCB-57	4.29e+04	0.86	y	31:49	1.11	2.43	J	-	-	*			
PCB-67	1.02e+05	0.82	y	32:06	1.10	5.84		-	-	*			
PCB-58	*	*	n	NotFnd	1.16	*		540	896	0.762			
PCB-63	7.04e+04	0.81	y	32:22	1.17	3.79	J	-	-	*			
PCB-74	6.49e+05	0.80	y	32:37	1.21	33.8		-	-	*			
PCB-61	2.15e+06	0.82	y	32:49	1.21	111		-	-	*	Co-elute PCB 70		
PCB-70	2.15e+06	0.82	y	32:49	1.21	111		-	-	*	Co-elute PCB 61		
PCB-76	1.54e+06	0.83	y	33:01	1.21	80.3		-	-	*	Co-elute PCB 66		
PCB-66	1.54e+06	0.83	y	33:01	1.21	80.3		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.28	*		540	896	0.688			
PCB-55	7.17e+04	0.80	y	33:29	1.20	3.77	J	-	-	*			
13C-PCB-54	3.18e+07	0.81	y	25:35	1.17	1670					83.4	3.65e+06	4.51e+06
PCB-104	*	*	n	NotFnd	1.32	*		244	412	0.696			
PCB-96	*	*	n	NotFnd	1.16	*		244	412	0.791			
PCB-103	3.42e+04	1.44	y	31:47	0.99	3.26	J	-	-	*			
PCB-100	*	*	n	NotFnd	1.01	*		244	412	0.906			
PCB-94	*	*	n	NotFnd	0.85	*		244	412	1.08			
PCB-98	*	*	n	NotFnd	1.05	*		244	412	0.871	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.05	*		244	412	0.871	Co-elute PCB 98		
PCB-95	1.85e+06	1.59	y	33:04	0.90	193		-	-	*			
PCB-93	*	*	n	NotFnd	0.83	*		244	412	1.10			
PCB-88	3.16e+05	1.63	y	33:27	0.93	31.8		-	-	*	Co-elute PCB 91		
PCB-91	3.16e+05	1.63	y	33:27	0.93	31.8		-	-	*	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.17	*		244	412	0.783			
13C-PCB-104	2.13e+07	1.60	y	30:03	0.62	2100					105	2.25e+06	1.35e+06
13C-PCB-28	7.04e+07	1.10	y	26:41	2.10	2050					103	8.46e+06	7.87e+06
13C-PCB-52	3.26e+07	0.82	y	28:56	-	19.3							

PCB-56	8.98e+05	0.78	y	33:59	1.30	39.2		-	-	*		Co-elute PCB 60
PCB-60	8.98e+05	0.78	y	33:59	1.30	39.2		-	-	*		Co-elute PCB 56
PCB-79	8.35e+04	0.66	y	35:00	1.27	3.74	J	-	-	*		
PCB-78	*	*	n	NotFnd	1.21	*		728	799	0.953		
PCB-81	1.50e+05	0.87	y	36:11	1.33	6.48		-	-	*		
13C-PCB-81	3.50e+07	0.81	y	36:10	1.59	1850					92.7	2.98e+06 3.62e+06
PCB-77	2.11e+05	0.87	y	36:45	1.22	9.80		-	-	*		
13C-PCB-77	3.54e+07	0.82	y	36:44	1.65	1810					90.3	3.01e+06 3.61e+06
PCB-155	*	*	n	NotFnd	1.16	*		284	204	0.506		
PCB-150	*	*	n	NotFnd	1.06	*		284	204	0.552		
PCB-152	*	*	n	NotFnd	1.01	*		284	204	0.580		
PCB-145	*	*	n	NotFnd	1.05	*		284	204	0.561		
PCB-136	3.52e+05	1.40	y	36:35	1.01	37.0		-	-	*		
PCB-148	*	*	n	NotFnd	0.78	*		284	204	0.753		
PCB-154	4.58e+04	1.35	y	37:10	0.92	5.30		-	-	*		
13C-PCB-155	1.89e+07	1.29	y	34:12	0.86	1850					92.7	2.34e+06 1.81e+06
13C-PCB-111	2.85e+07	1.57	y	36:18	1.18	2020					101	3.73e+06 2.31e+06
13C-PCB-101	2.38e+07	1.62	y	34:39	-	17.1						
PCB-84	1.42e+06	1.54	y	34:18	0.59	130		-	-	*		Co-elute PCB 92
PCB-92	1.42e+06	1.54	y	34:18	0.59	130		-	-	*		Co-elute PCB 84
PCB-89	2.76e+04	1.33	y	34:30	0.58	2.56	J	-	-	*		
PCB-90	3.67e+06	1.58	y	34:40	0.68	295		-	-	*		Co-elute PCB 101
PCB-101	3.67e+06	1.58	y	34:40	0.68	295		-	-	*		Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.76	*		810	740	1.34		
PCB-99	1.86e+06	1.56	y	34:59	0.72	142		-	-	*		
PCB-119	1.40e+05	1.65	y	35:25	0.81	9.40		-	-	*		
PCB-83	1.74e+05	1.66	y	35:34	0.68	13.9		-	-	*		Co-elute PCB 112
PCB-112	1.74e+05	1.66	y	35:34	0.68	13.9		-	-	*		Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.80	*		810	740	1.26		
PCB-97	1.02e+06	1.57	y	35:54	0.71	77.8		-	-	*		
PCB-86	*	*	n	NotFnd	0.63	*		810	740	1.61		
PCB-125	1.64e+06	1.57	y	36:11	0.74	121		-	-	*		Co-elute PCB 87/117
PCB-87	1.64e+06	1.57	y	36:11	0.74	121		-	-	*		Co-elute PCB 125/117
PCB-117	1.64e+06	1.57	y	36:11	0.74	121		-	-	*		Co-elute PCB 125/87
PCB-111	8.00e+04	1.38	y	36:18	0.98	4.41		-	-	*		Co-elute PCB 115
PCB-115	8.00e+04	1.38	y	36:18	0.98	4.41		-	-	*		Co-elute PCB 111
PCB-85	6.70e+05	1.60	y	36:25	0.67	54.1		-	-	*		Co-elute PCB 116
PCB-116	6.70e+05	1.60	y	36:25	0.67	54.1		-	-	*		Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.83	*		810	740	1.22		
PCB-110	5.45e+06	1.62	y	36:48	0.91	324		-	-	*		
PCB-82	3.21e+05	1.61	y	37:23	0.51	34.5		-	-	*		
PCB-124	2.74e+05	1.37	y	38:03	1.10	13.5		-	-	*		
PCB-108	4.49e+05	1.60	y	38:13	1.26	19.4		-	-	*		Co-elute PCB 107
PCB-107	4.49e+05	1.60	y	38:13	1.26	19.4		-	-	*		Co-elute PCB 108
PCB-123	9.99e+04	1.42	y	38:21	1.35	4.19		-	-	*		
13C-PCB-123	3.54e+07	1.61	y	38:19	1.45	1940					96.9	4.55e+06 2.80e+06
PCB-118	6.00e+06	1.57	y	38:31	1.17	271		-	-	*		Co-elute PCB 106
PCB-106	6.00e+06	1.57	y	38:31	1.17	271		-	-	*		Co-elute PCB 118
13C-PCB-118	3.78e+07	1.65	y	38:31	1.55	1940					97.1	4.86e+06 2.91e+06
PCB-114	1.24e+05	1.47	y	39:09	1.18	5.64		-	-	*		
13C-PCB-114	3.72e+07	1.63	y	39:07	1.50	1980					98.8	4.71e+06 2.90e+06
PCB-122	8.70e+04	1.65	y	39:17	1.24	3.81	J	-	-	*		
PCB-105	2.48e+06	1.58	y	39:58	1.20	112		-	-	*		
13C-PCB-105	3.68e+07	1.60	y	39:57	1.50	1950					97.5	4.91e+06 3.00e+06

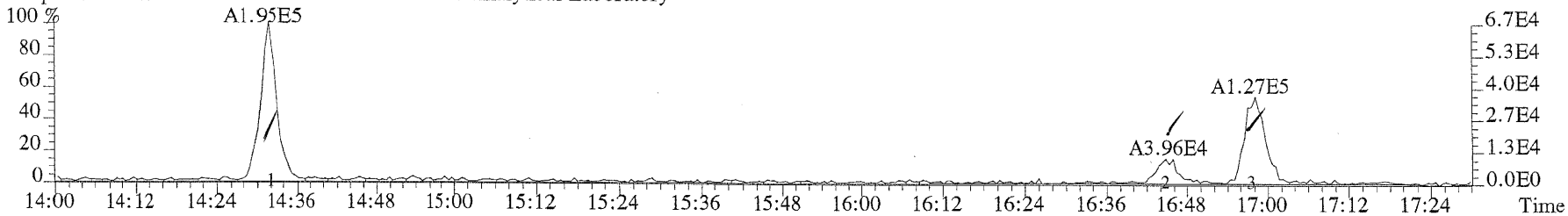
PCB-127	*	*	n	NotFnd	1.10	*		740	700	0.858				
PCB-126	5.00e+04	1.60	y	42:05	1.22	2.60	J	-	-	*				
13C-PCB-126	3.14e+07	1.61	y	42:05	1.38	1810					90.6	3.78e+06	2.28e+06	
PCB-151	5.63e+05	1.27	y	37:47	0.82	54.4		-	-	*				
PCB-135	4.40e+05	1.36	y	37:58	0.78	44.7		-	-	*				
PCB-144	1.43e+05	1.25	y	38:05	0.96	11.7		-	-	*				
PCB-147	1.02e+05	1.25	y	38:13	0.89	9.10		-	-	*				
PCB-139	2.79e+06	1.29	y	38:26	0.95	233		-	-	*				Co-elute PCB 149
PCB-149	2.79e+06	1.29	y	38:26	0.95	233		-	-	*				Co-elute PCB 139
PCB-140	2.47e+04	1.08	y	38:39	0.91	2.14	J	-	-	*				
PCB-143	2.16e+05	1.16	y	39:04	0.89	19.2		-	-	*				Co-elute PCB 134
PCB-134	2.16e+05	1.16	y	39:04	0.89	19.2		-	-	*				Co-elute PCB 143
PCB-131	1.31e+05	1.28	y	39:19	0.89	11.7		-	-	*				Co-elute PCB 133
PCB-133	1.31e+05	1.28	y	39:19	0.89	11.7		-	-	*				Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.75	*		421	408	1.10				
PCB-165	5.86e+05	1.28	y	39:42	1.05	44.4		-	-	*				Co-elute PCB 146
PCB-146	5.86e+05	1.28	y	39:42	1.05	44.4		-	-	*				Co-elute PCB 165
PCB-161	1.22e+06	1.34	y	39:57	1.00	96.8		-	-	*				Co-elute PCB 132
PCB-132	1.22e+06	1.34	y	39:57	1.00	96.8		-	-	*				Co-elute PCB 161
PCB-153	3.74e+06	1.28	y	40:05	1.01	293		-	-	*				
PCB-168	3.26e+04	1.23	y	40:16	1.14	2.25	J	-	-	*				
PCB-141	6.36e+05	1.26	y	40:48	0.89	56.5		-	-	*				
PCB-137	2.20e+05	1.13	y	41:07	0.90	19.2		-	-	*				
PCB-130	3.29e+05	1.39	y	41:14	0.75	34.8		-	-	*				
PCB-138	5.21e+06	1.25	y	41:35	1.15	357		-	-	*				Co-elute PCB 163/164
PCB-163	5.21e+06	1.25	y	41:35	1.15	357		-	-	*				Co-elute PCB 138/164
PCB-164	5.21e+06	1.25	y	41:35	1.15	357		-	-	*				Co-elute PCB 138/163
PCB-158	6.73e+05	1.30	y	41:49	1.16	45.8		-	-	*				Co-elute PCB 160
PCB-160	6.73e+05	1.30	y	41:49	1.16	45.8		-	-	*				Co-elute PCB 158
PCB-129	1.99e+05	1.33	y	42:03	0.75	21.1		-	-	*				
PCB-166	2.44e+04	1.33	y	42:30	1.07	1.80	J	-	-	*				
PCB-159	4.12e+04	1.33	y	42:49	1.16	2.81	J	-	-	*				
PCB-128	8.96e+05	1.25	y	43:03	0.97	73.2		-	-	*				Co-elute PCB 162
PCB-162	8.96e+05	1.25	y	43:03	0.97	73.2		-	-	*				Co-elute PCB 128
PCB-167	2.34e+05	1.26	y	43:27	1.06	17.0		-	-	*				
13C-PCB-167	2.59e+07	1.30	y	43:26	1.15	1800					89.8	2.95e+06	2.27e+06	
PCB-156	5.71e+05	1.33	y	44:40	1.12	40.8		-	-	*				
13C-PCB-156	2.51e+07	1.32	y	44:40	1.10	1810					90.4	2.78e+06	2.11e+06	
PCB-157	1.57e+05	1.32	y	44:55	1.13	10.7		-	-	*				
13C-PCB-157	2.59e+07	1.29	y	44:55	1.15	1800					89.9	3.02e+06	2.30e+06	
PCB-169	*	*	n	NotFnd	1.09	*		421	408	0.819				
13C-PCB-169	2.42e+07	1.29	y	46:48	1.08	1780					88.9	2.63e+06	2.03e+06	

FAL ID: 11719-006-0001-SA Filename: 30JUL18Z Sam:10 Acquired: 30-JUL-18 19:07:26 ICal: DAILY209FAL4-7-30-18
Client ID: LDW-Y1-IN-ENR+AC-CC-CORE ConCal: ST073018Z1 EndCal: ST073018Z2
Results: 11719 GC Column: DB1MS Amount: 5.000

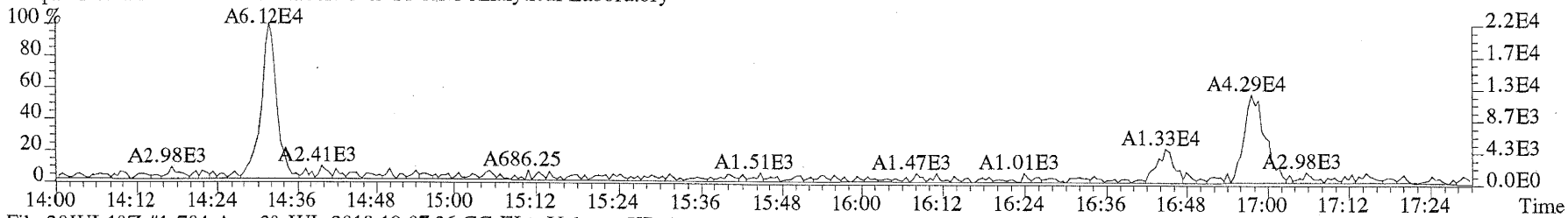
PCB-188	*	*	n	NotFnd	1.14	*		372	188	0.582			
13C-PCB-188	2.01e+07	1.08	y	39:42	0.92	1740					87.0	2.21e+06	2.00e+06
PCB-184	*	*	n	NotFnd	1.18	*		372	188	0.525			
PCB-179	2.61e+05	0.97	y	40:53	1.10	24.2		-	-	*			
PCB-176	7.90e+04	1.17	y	41:19	1.07	7.49		-	-	*			
PCB-186	*	*	n	NotFnd	1.10	*		372	188	0.563			
PCB-178	1.04e+05	1.09	y	42:20	0.79	13.3		-	-	*			
PCB-175	2.40e+04	1.11	y	42:41	0.83	2.94	J	-	-	*			
PCB-187	6.63e+05	1.07	y	42:49	0.91	74.0		-	-	*		Co-elute PCB 182	
PCB-182	6.63e+05	1.07	y	42:49	0.91	74.0		-	-	*		Co-elute PCB 187	
PCB-183	3.15e+05	1.21	y	43:09	0.88	36.4		-	-	*			
PCB-185	5.75e+04	0.97	y	43:45	0.85	6.91		-	-	*			
PCB-174	5.01e+05	1.10	y	44:07	0.82	62.2		-	-	*			
PCB-181	*	*	n	NotFnd	0.85	*		372	188	0.727			
PCB-177	2.99e+05	1.04	y	44:22	0.76	40.0		-	-	*			
PCB-171	1.48e+05	1.08	y	44:40	0.81	18.7		-	-	*			
PCB-173	2.16e+04	0.99	y	45:01	0.74	2.97	J	-	-	*			
PCB-172	8.12e+04	1.02	y	45:27	0.73	11.4		-	-	*			
PCB-192	*	*	n	NotFnd	1.06	*		372	188	0.586			
PCB-180	1.11e+06	1.02	y	45:49	1.02	111		-	-	*			
PCB-193	8.54e+04	1.00	y	45:59	1.10	7.93		-	-	*			
PCB-191	3.54e+04	1.04	y	46:10	1.01	3.59	J	-	-	*			
PCB-170	5.28e+05	1.11	y	47:06	0.75	72.2		-	-	*			
PCB-190	1.51e+05	1.13	y	47:14	0.98	15.7		-	-	*			
PCB-189	3.84e+04	1.18	y	48:29	1.12	3.58	J	-	-	*			
13C-PCB-189	1.91e+07	1.08	y	48:27	0.82	1850					92.6	2.54e+06	2.33e+06
PCB-202	3.96e+04	0.94	y	44:50	1.01	6.35		-	-	*			
PCB-201	3.30e+04	0.87	y	45:16	0.99	5.39		-	-	*			
PCB-204	*	*	n	NotFnd	0.96	*		172	204	0.715			
PCB-197	1.13e+04	0.85	y	45:39	1.06	1.73	J	-	-	*			
PCB-200	3.04e+04	0.88	y	46:25	0.98	5.01		-	-	*			
PCB-198	1.06e+04	1.00	y	47:36	0.72	2.39	J	-	-	*			
PCB-199	1.93e+05	1.00	y	47:42	0.78	40.1		-	-	*			
PCB-203	2.08e+05	0.81	y	47:57	0.82	40.9		-	-	*		Co-elute PCB 196	
PCB-196	2.08e+05	0.81	y	47:57	0.82	40.9		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.24e+07	0.92	y	44:48	0.59	1680					83.8	1.35e+06	1.38e+06
13C-PCB-178	1.58e+07	1.10	y	42:20	0.65	1930					96.3	1.82e+06	1.65e+06
13C-PCB-138	2.51e+07	1.29	y	41:34	-	17.2							
PCB-195	1.77e+05	0.82	y	49:02	0.79	13.5		-	-	*			
PCB-194	5.58e+05	0.94	y	49:51	0.85	39.3		-	-	*			
PCB-205	3.79e+04	0.77	y	50:06	1.15	1.99	J	-	-	*			
13C-PCB-205	3.33e+07	0.91	y	50:06	1.30	1710					85.4	4.59e+06	4.96e+06
PCB-208	5.45e+04	1.50	y	49:08	1.05	4.11		-	-	*			
13C-PCB-208	2.52e+07	0.82	y	49:08	1.04	1620					81.0	3.82e+06	4.63e+06
PCB-207	3.36e+04	1.24	y	49:27	1.07	2.76	J	-	-	*			
PCB-206	1.76e+05	1.21	y	51:17	1.04	16.6		-	-	*			
13C-PCB-206	2.05e+07	0.81	y	51:17	0.86	1590					79.5	2.75e+06	3.41e+06
PCB-209	1.12e+05	1.19	y	52:28	1.10	9.17		-	-	*			
13C-PCB-209	2.22e+07	1.21	y	52:28	0.98	1520					75.9	3.42e+06	2.67e+06
13C-PCB-194	2.99e+07	0.91	y	49:51	-	19.0							

Analyst: _____ Date: 8/30/18

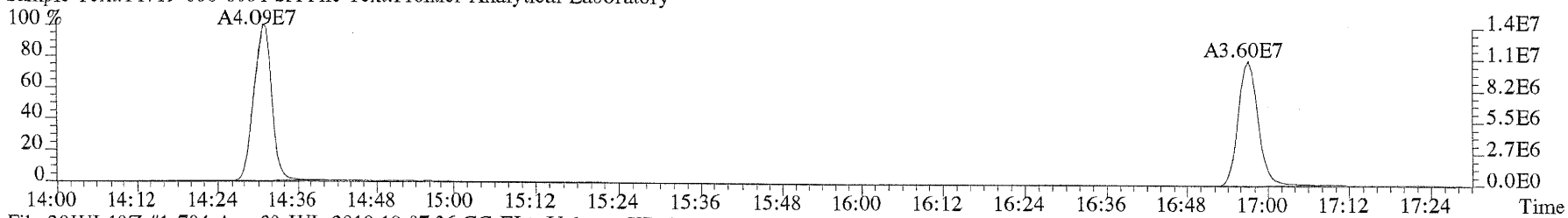
File:30JUL18Z #1-784 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



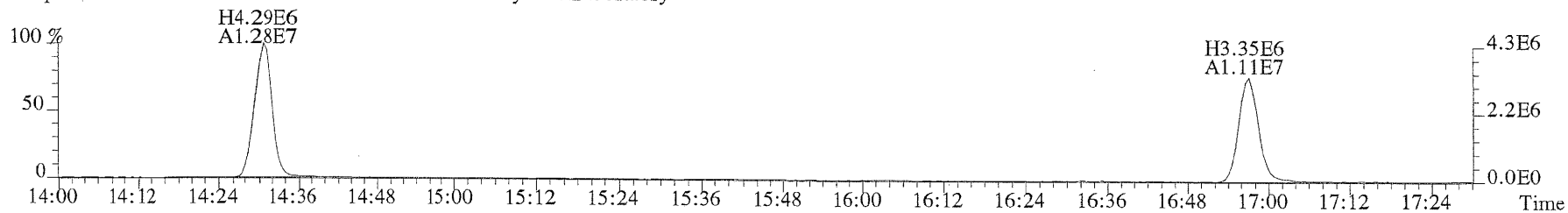
File:30JUL18Z #1-784 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



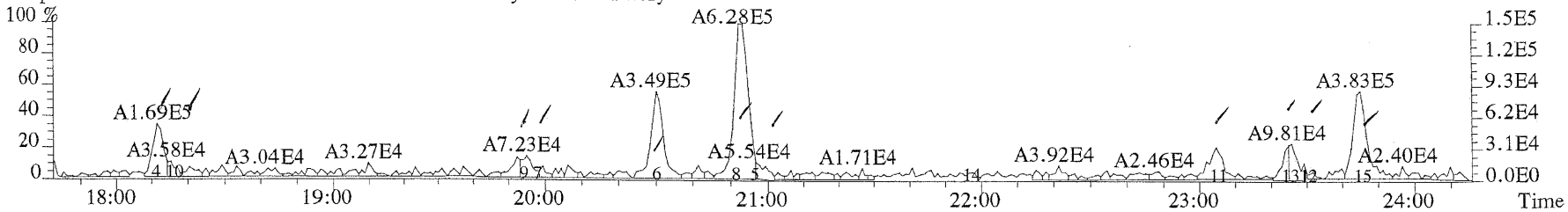
File:30JUL18Z #1-784 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



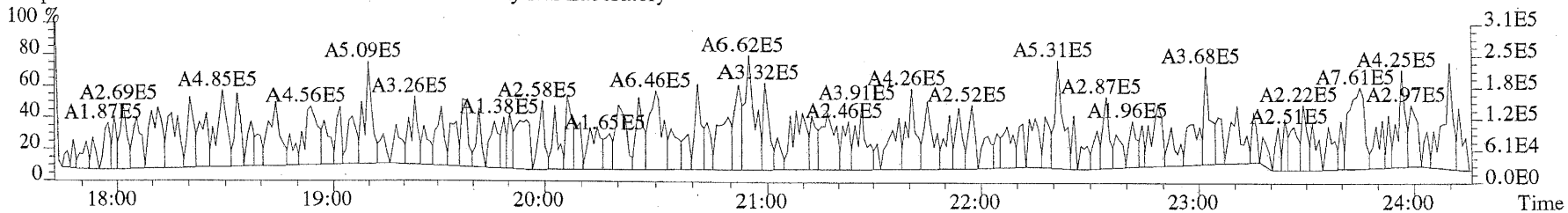
File:30JUL18Z #1-784 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



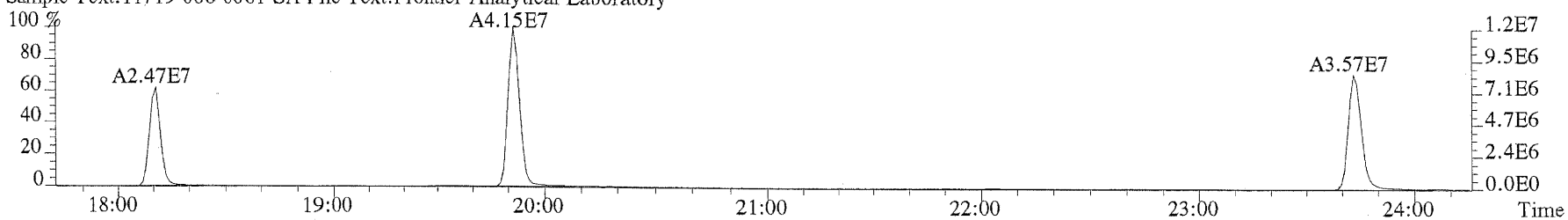
File:30JUL18Z #1-520 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



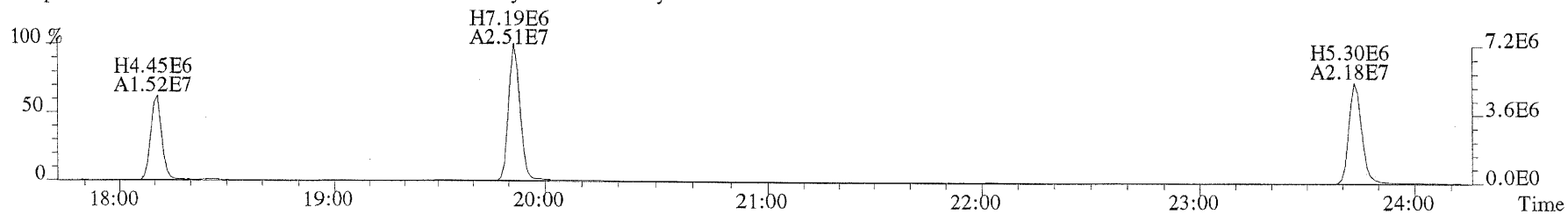
File:30JUL18Z #1-520 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



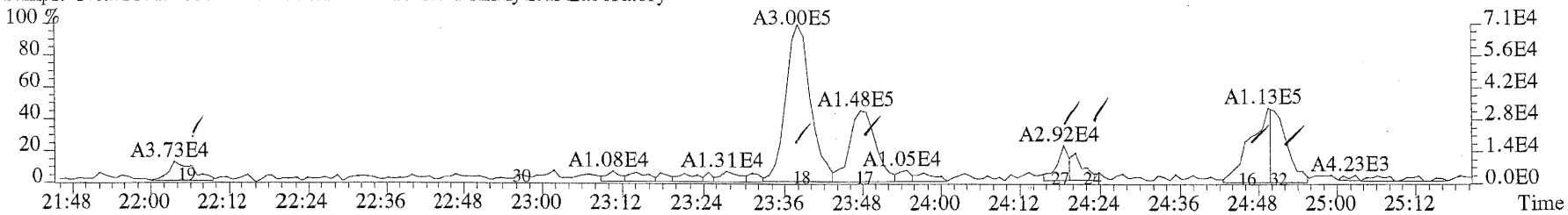
File:30JUL18Z #1-520 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



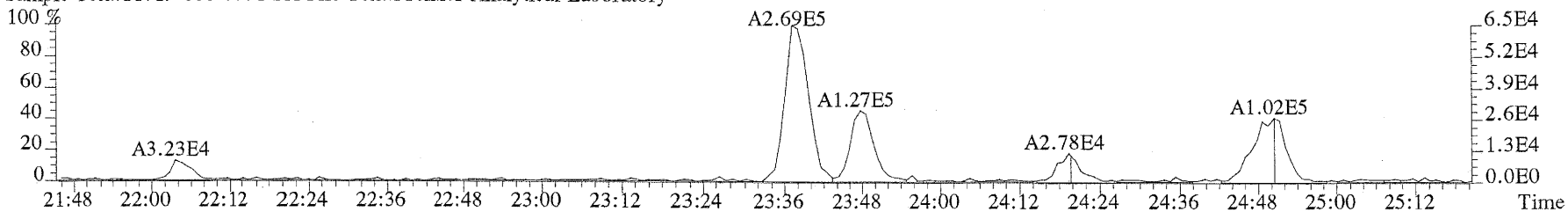
File:30JUL18Z #1-520 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



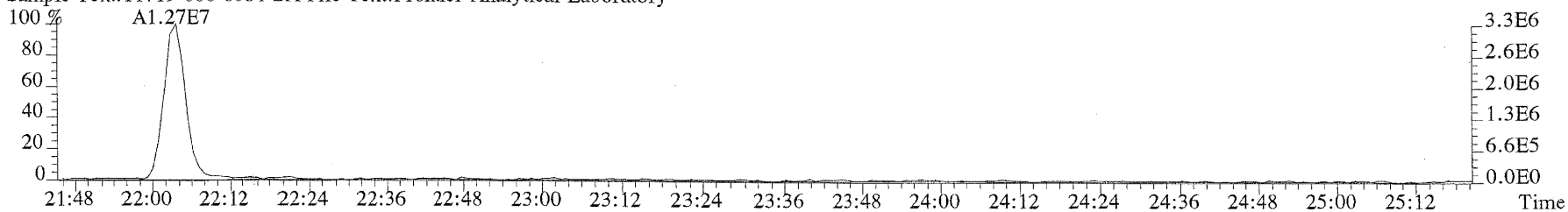
File:30JUL18Z #1-520 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



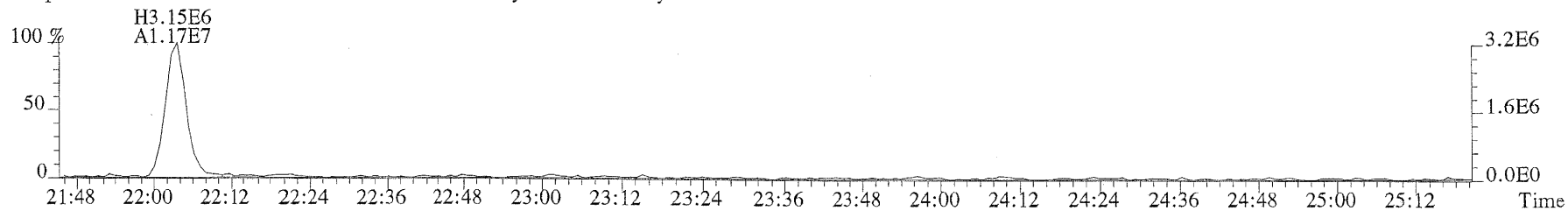
File:30JUL18Z #1-520 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



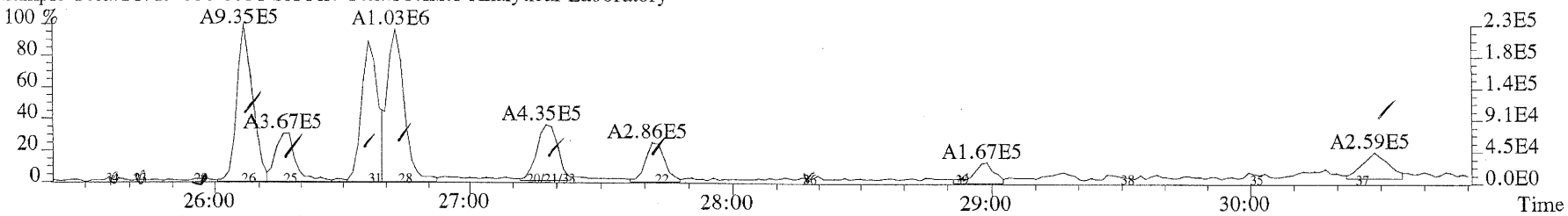
File:30JUL18Z #1-520 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



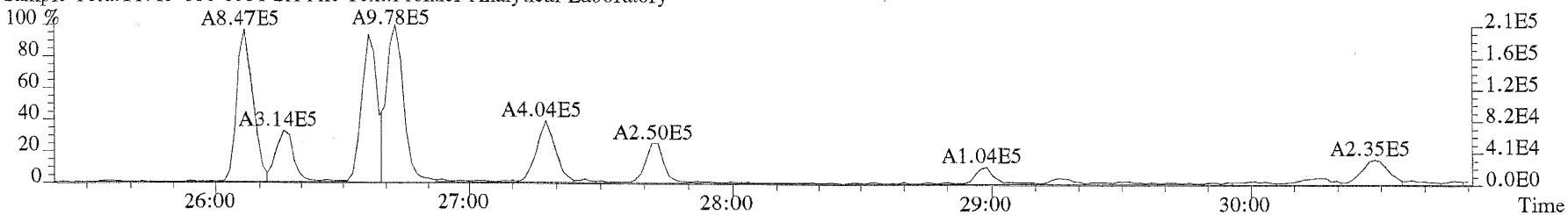
File:30JUL18Z #1-520 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



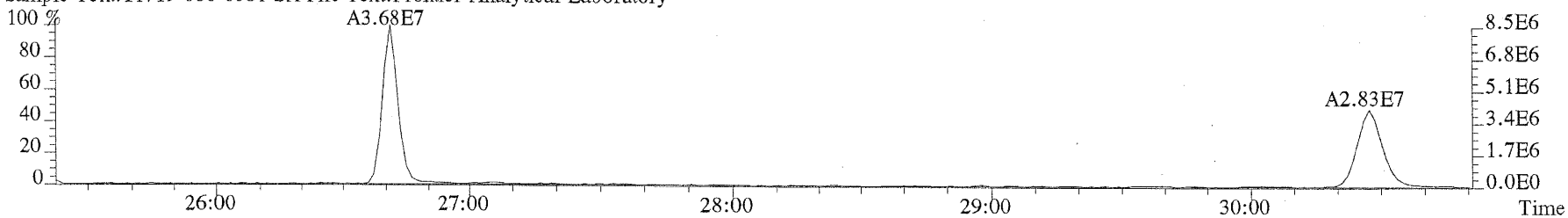
File:30JUL18Z #1-401 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



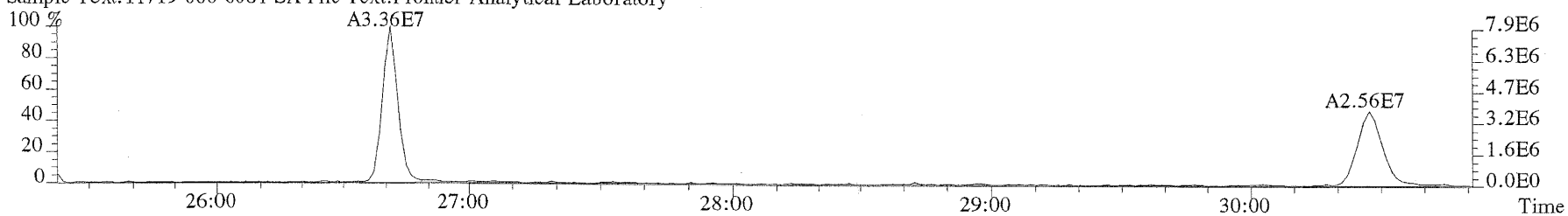
File:30JUL18Z #1-401 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



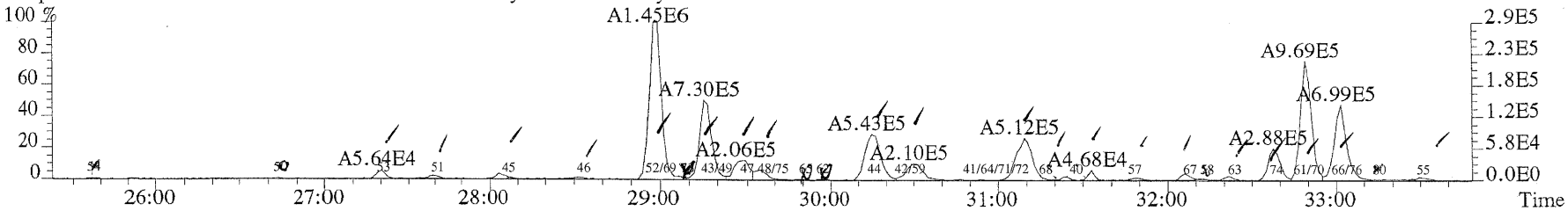
File:30JUL18Z #1-401 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



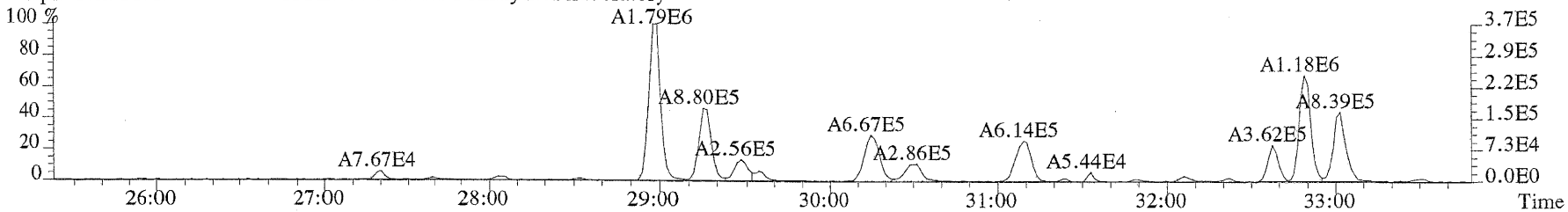
File:30JUL18Z #1-401 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



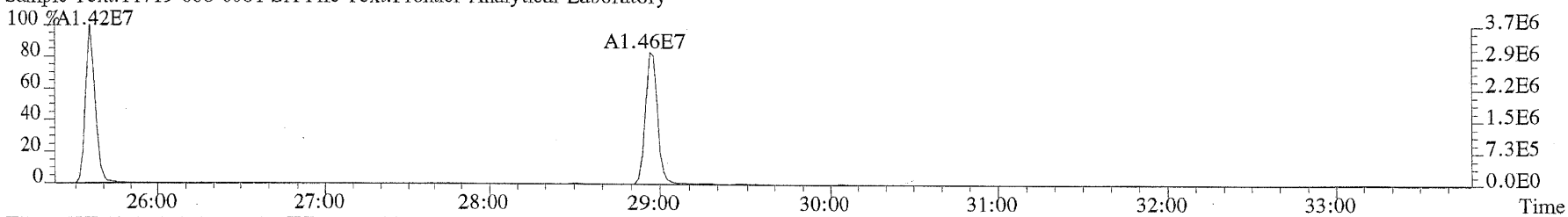
File:30JUL18Z #1-401 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



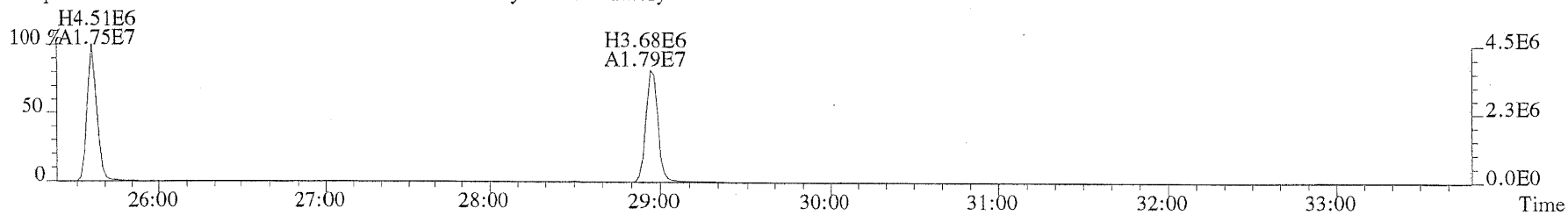
File:30JUL18Z #1-401 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



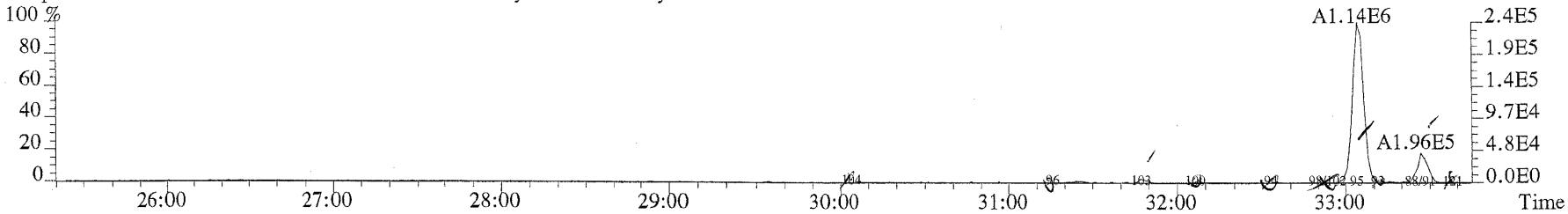
File:30JUL18Z #1-401 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



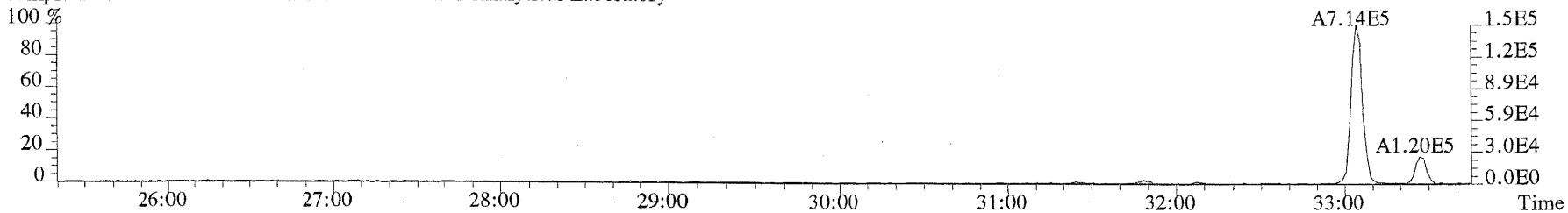
File:30JUL18Z #1-401 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



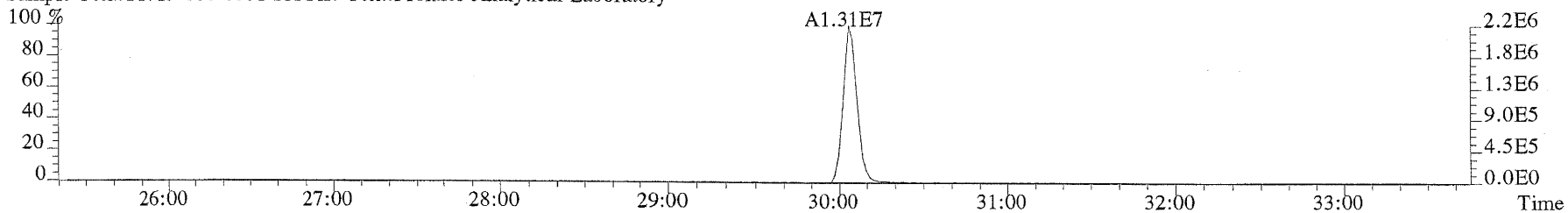
File:30JUL18Z #1-401 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



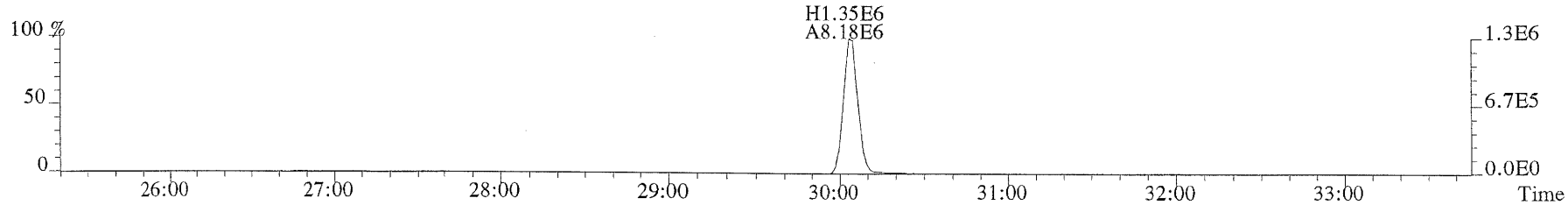
File:30JUL18Z #1-401 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



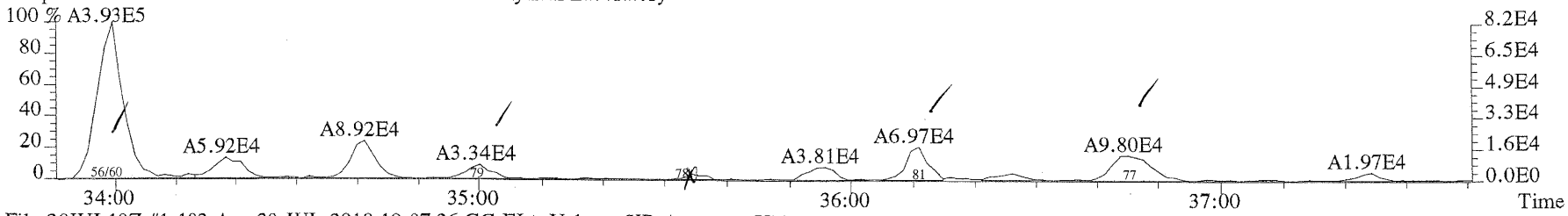
File:30JUL18Z #1-401 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



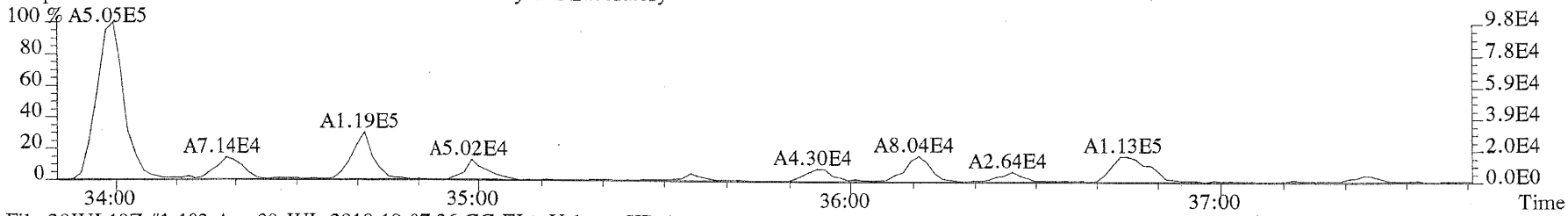
File:30JUL18Z #1-401 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



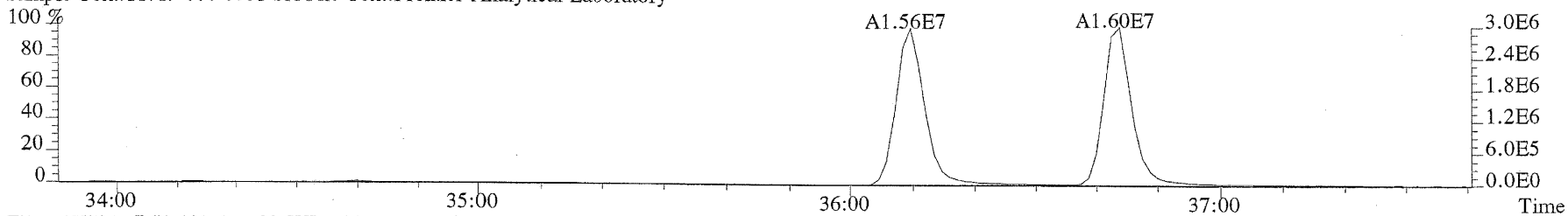
File:30JUL18Z #1-183 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



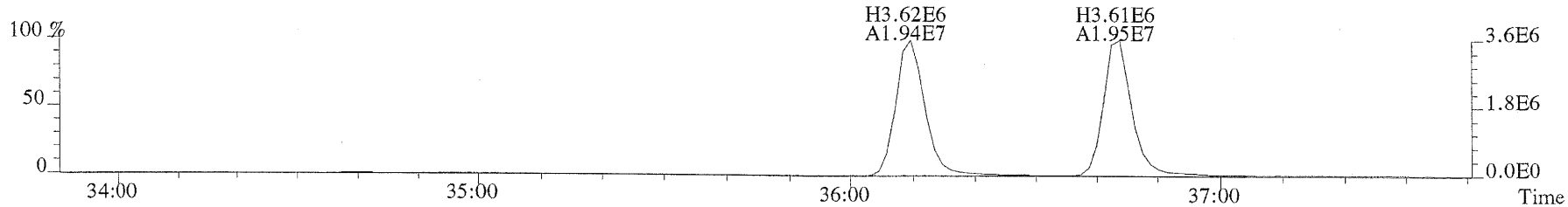
File:30JUL18Z #1-183 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



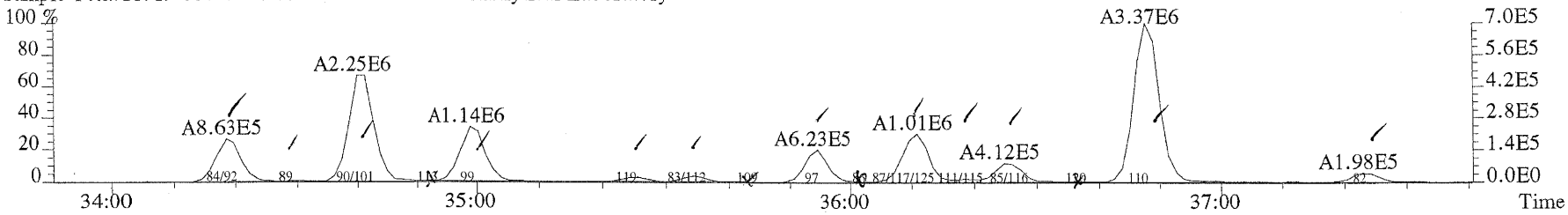
File:30JUL18Z #1-183 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



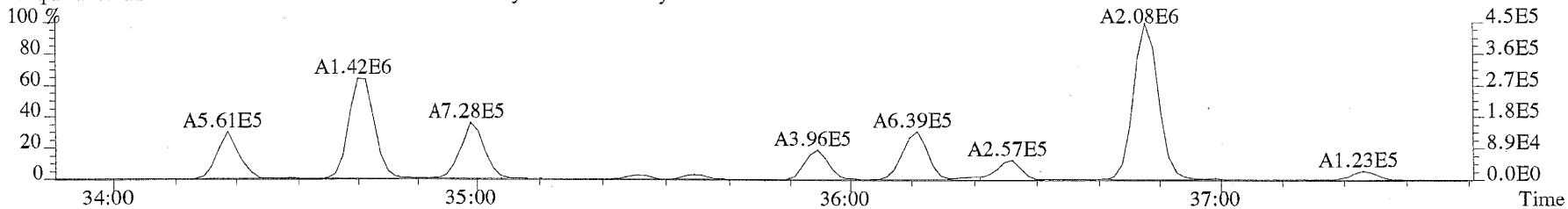
File:30JUL18Z #1-183 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



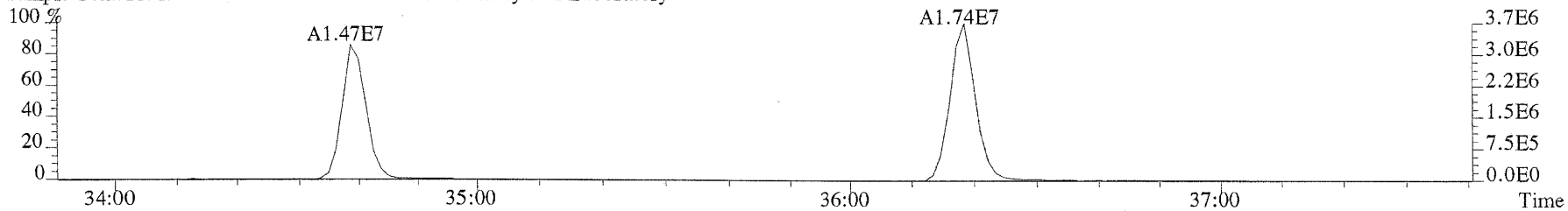
File:30JUL18Z #1-183 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



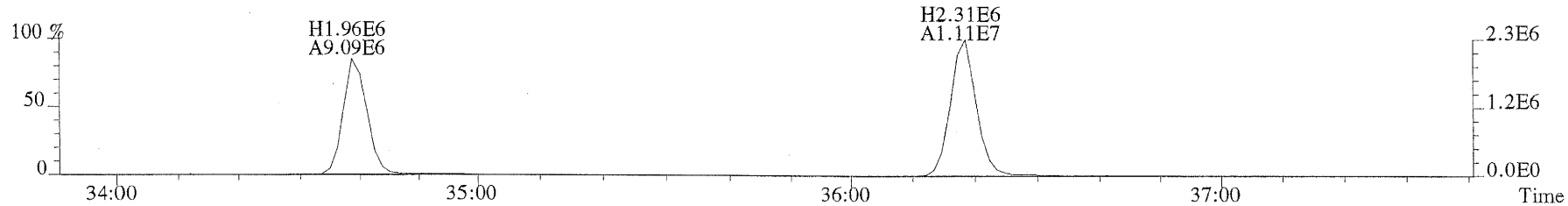
File:30JUL18Z #1-183 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



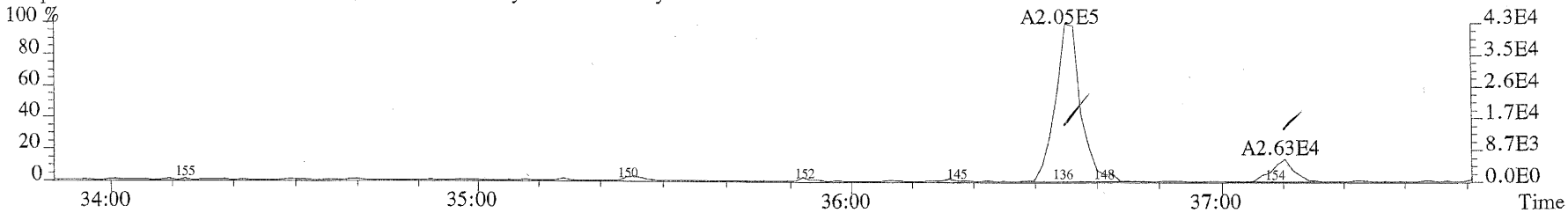
File:30JUL18Z #1-183 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



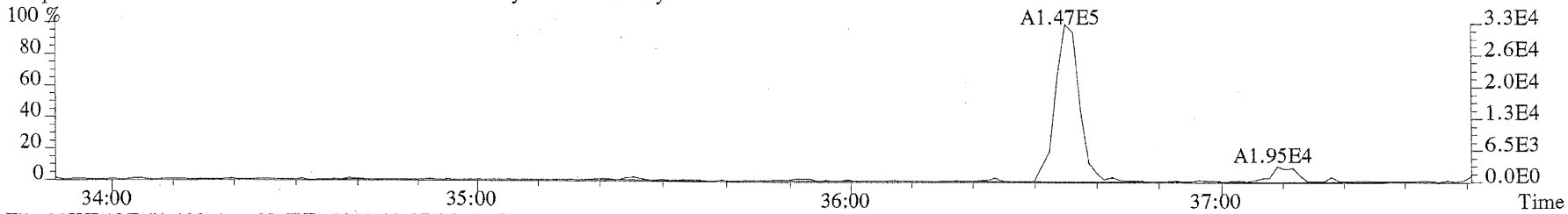
File:30JUL18Z #1-183 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



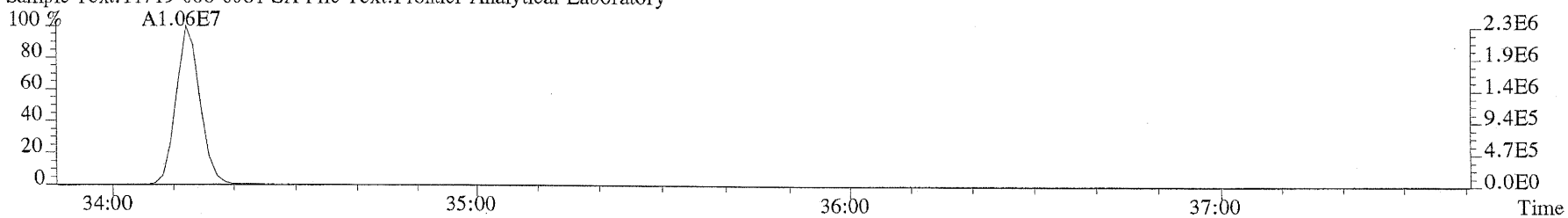
File:30JUL18Z #1-183 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



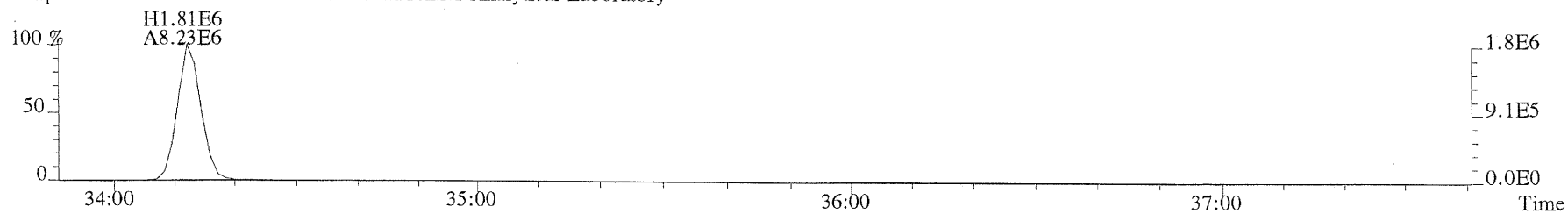
File:30JUL18Z #1-183 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



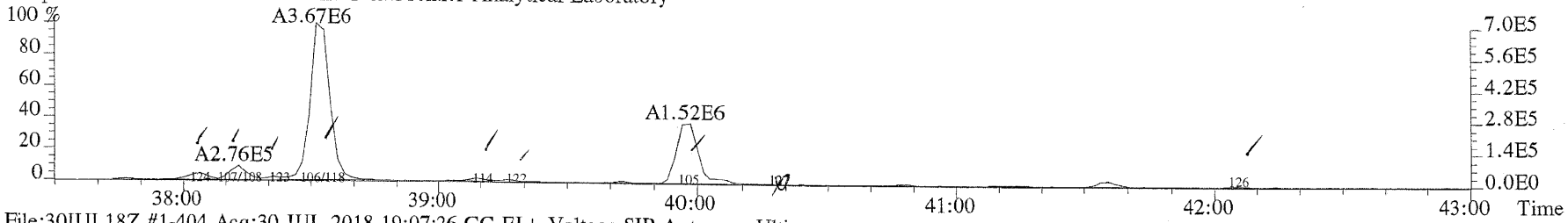
File:30JUL18Z #1-183 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



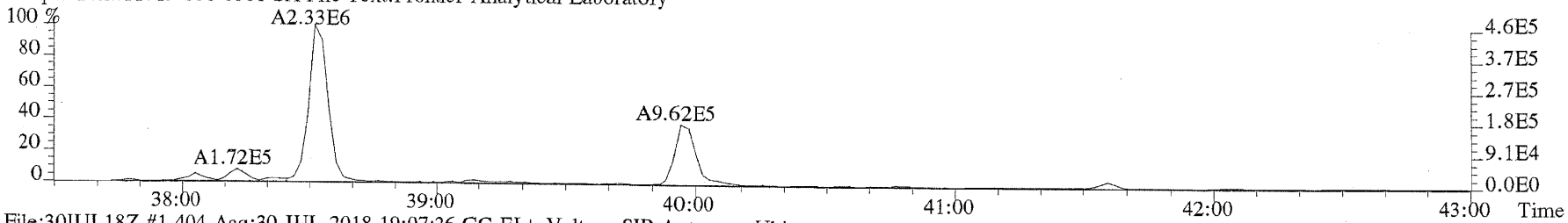
File:30JUL18Z #1-183 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



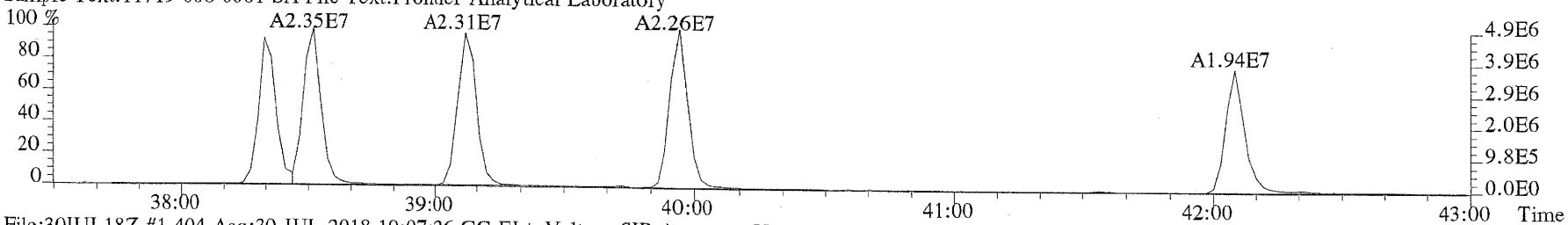
File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



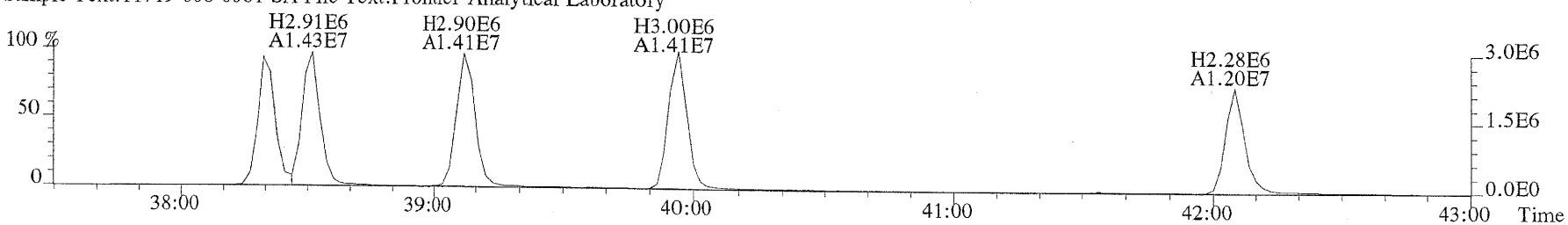
File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



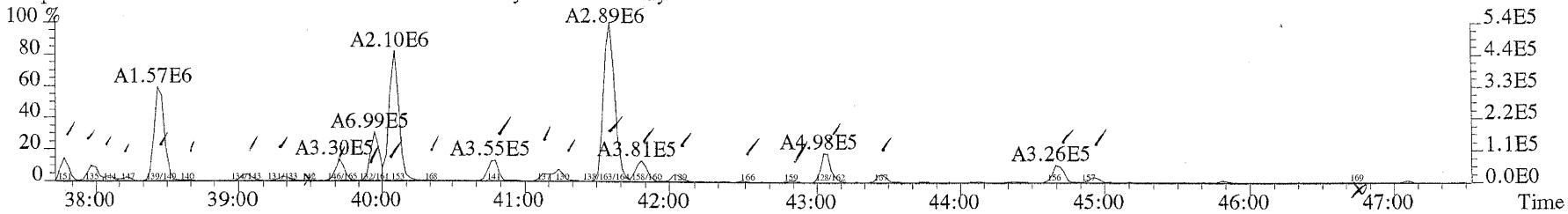
File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



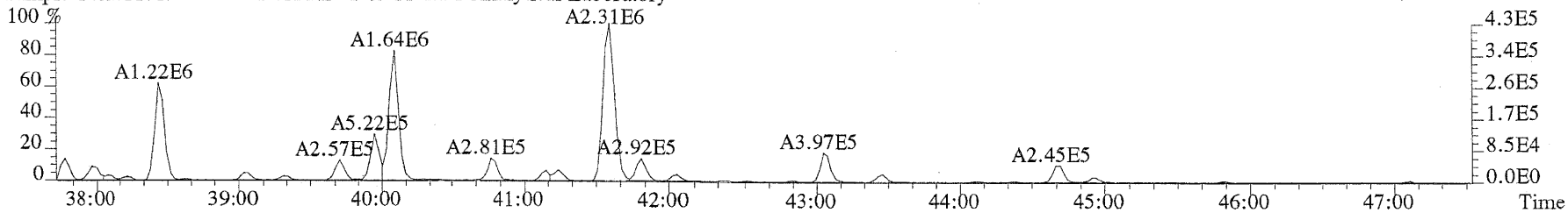
File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



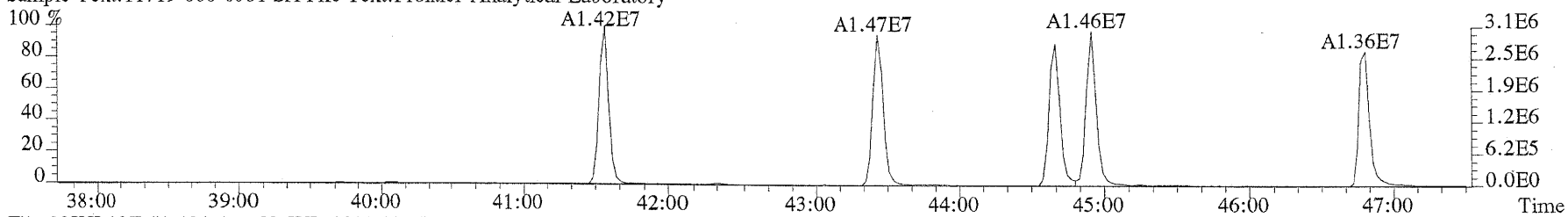
File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



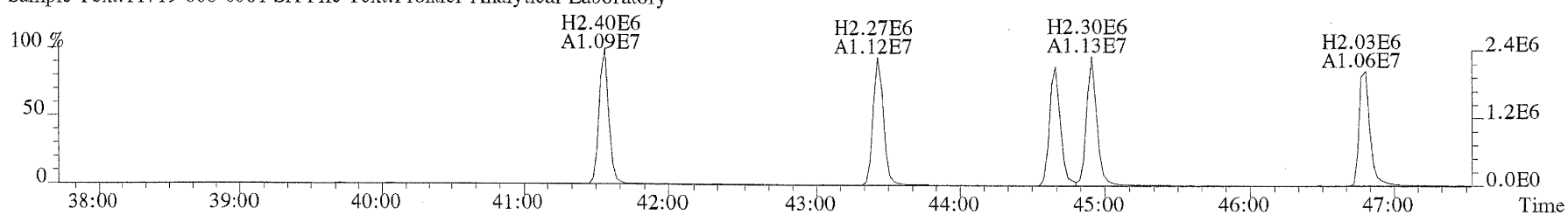
File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



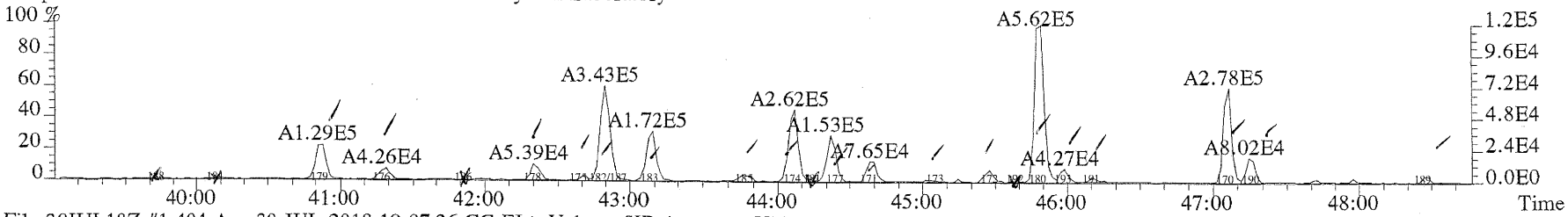
File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



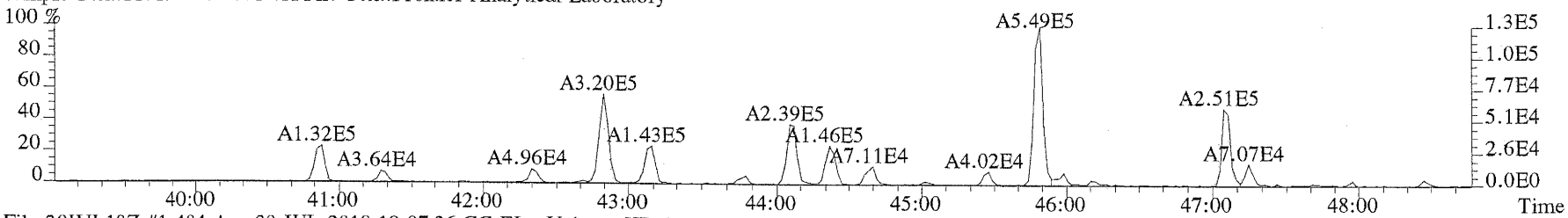
File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
393.8025 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:11719-006-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
395.7995 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:11719-006-0001-SA File Text:Frontier Analytical Laboratory



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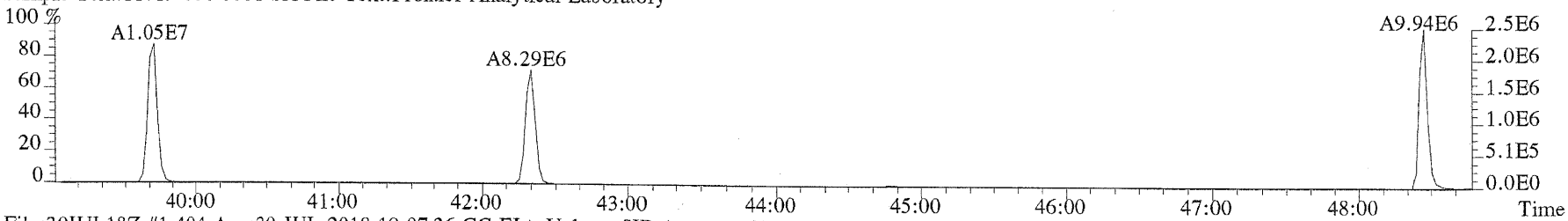
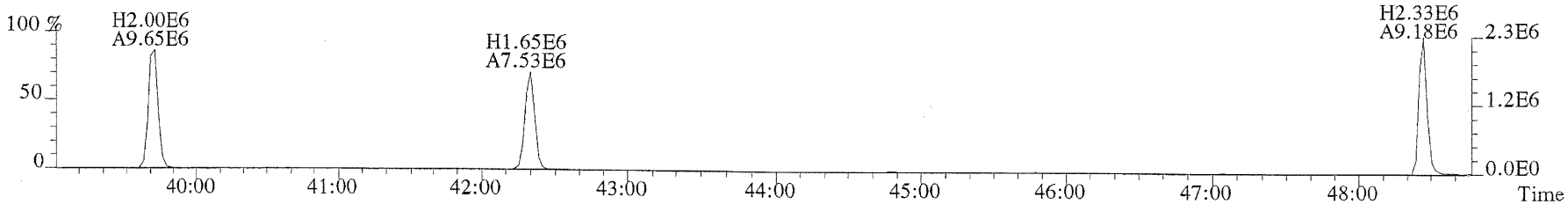
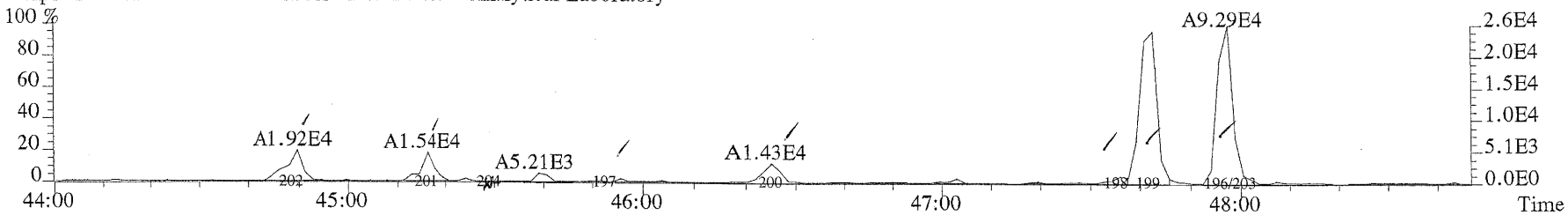
405.8428 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



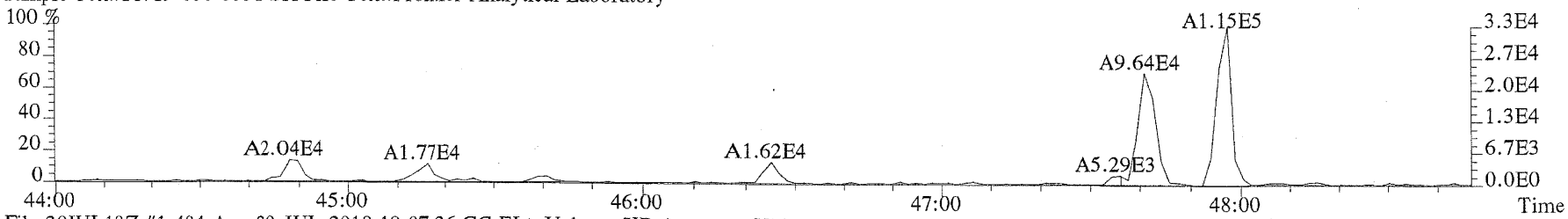
File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



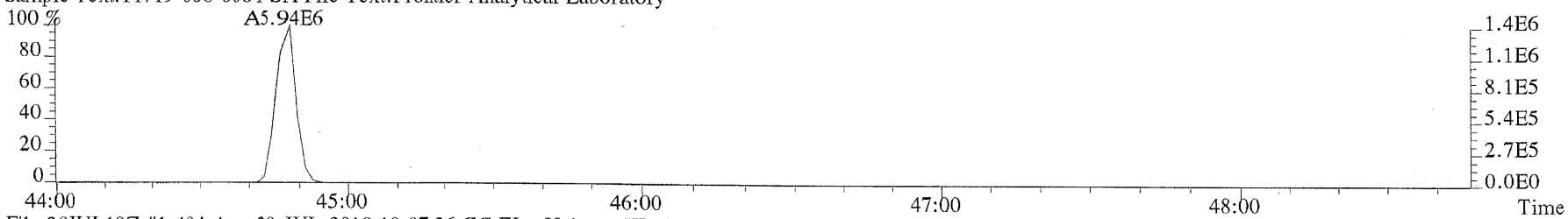
File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



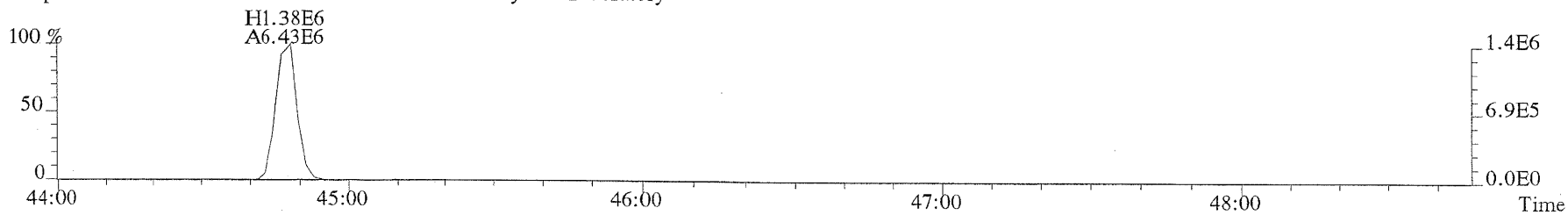
File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



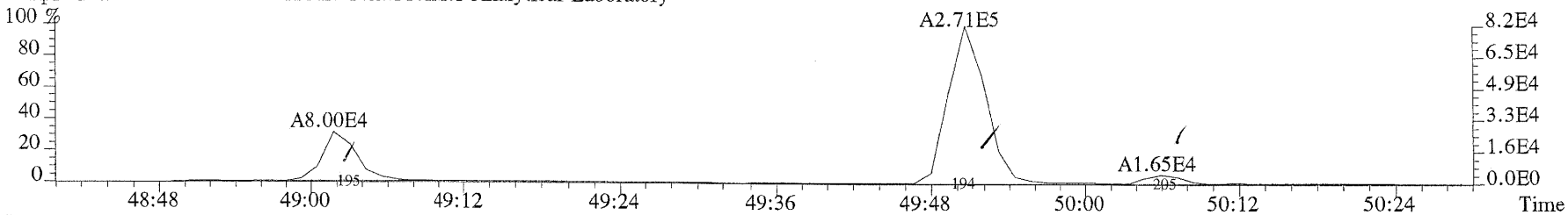
File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



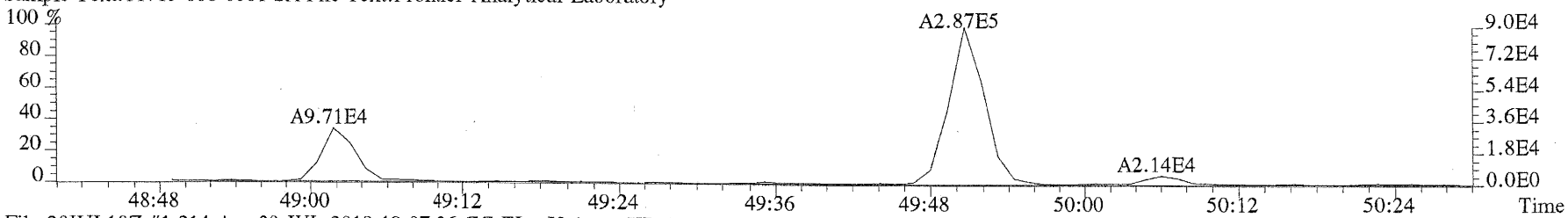
File:30JUL18Z #1-404 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



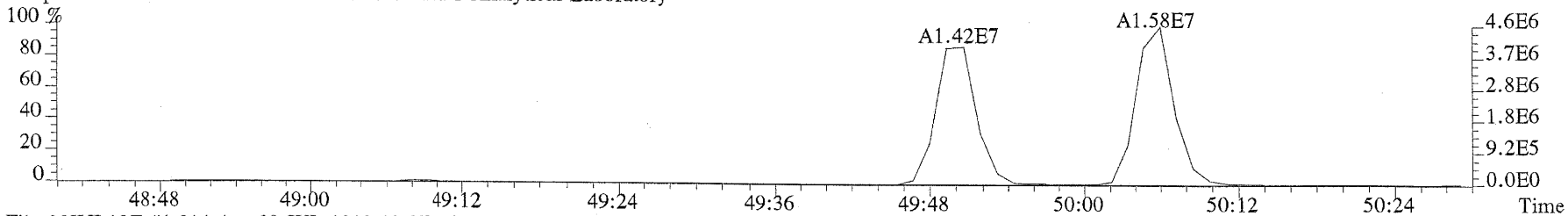
File:30JUL18Z #1-314 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



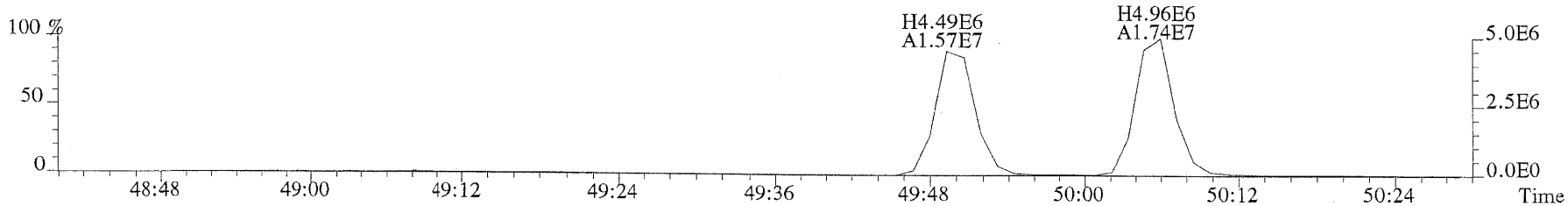
File:30JUL18Z #1-314 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



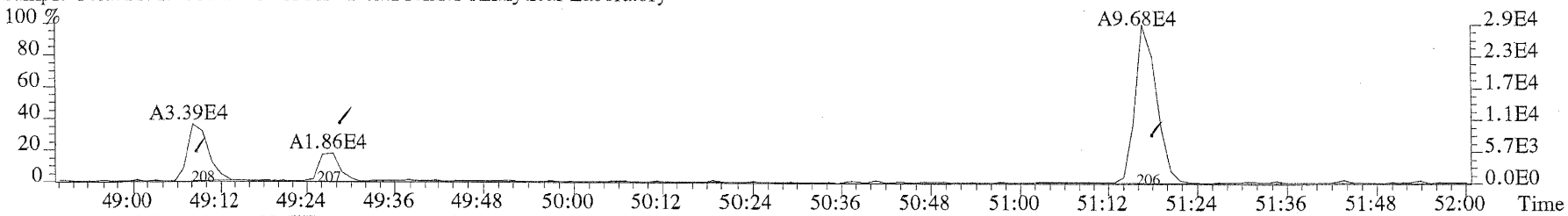
File:30JUL18Z #1-314 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



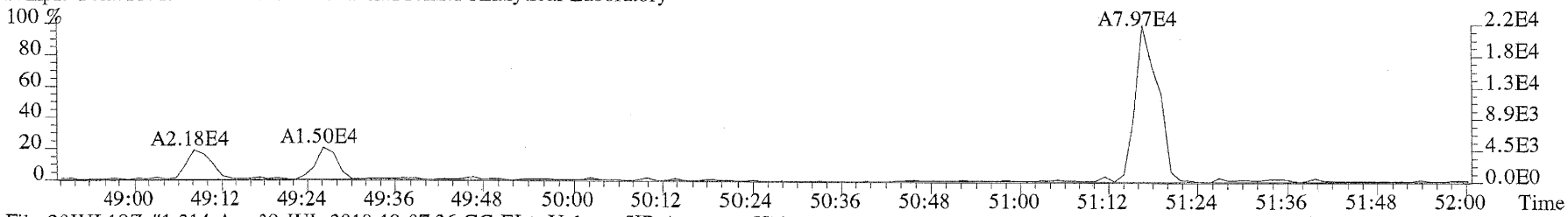
File:30JUL18Z #1-314 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



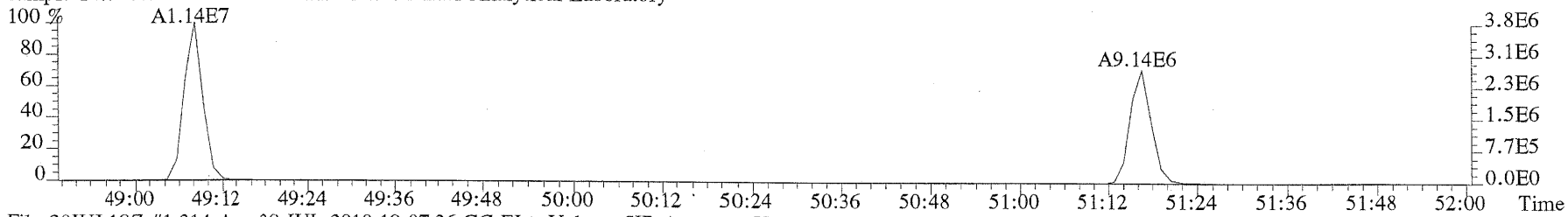
File:30JUL18Z #1-314 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



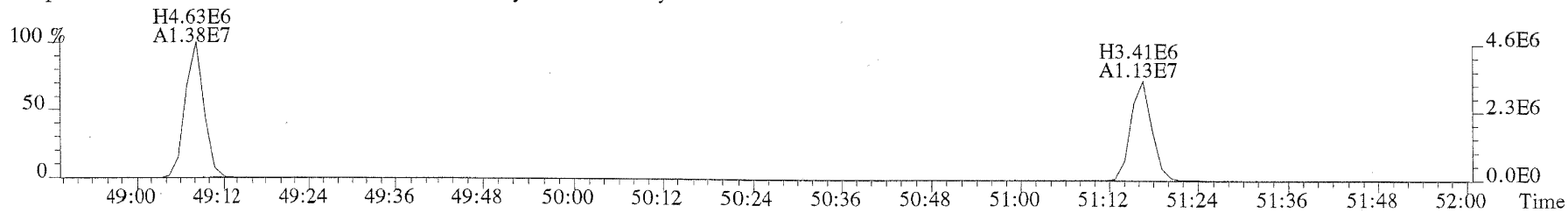
File:30JUL18Z #1-314 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



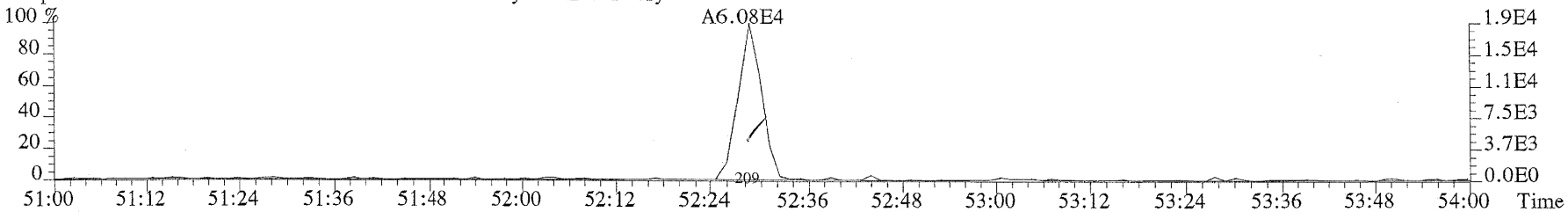
File:30JUL18Z #1-314 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



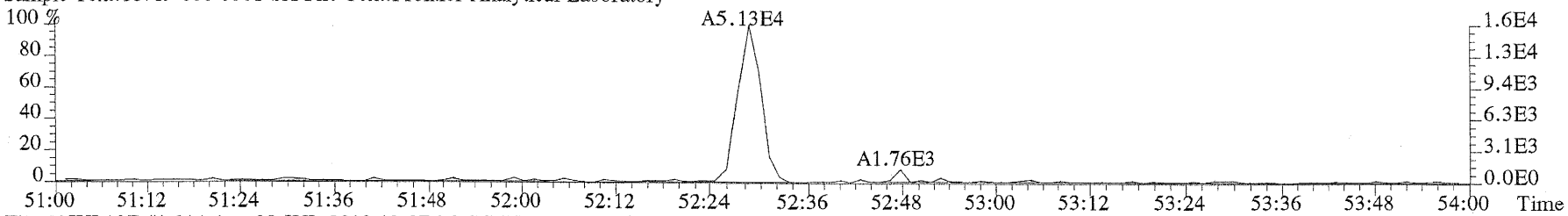
File:30JUL18Z #1-314 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



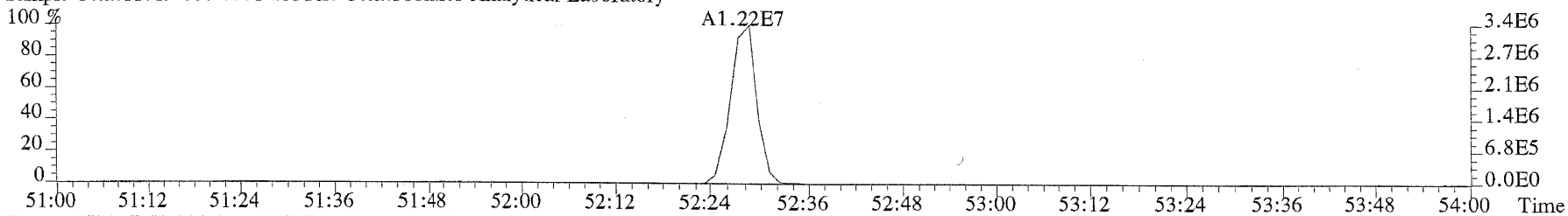
File:30JUL18Z #1-314 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



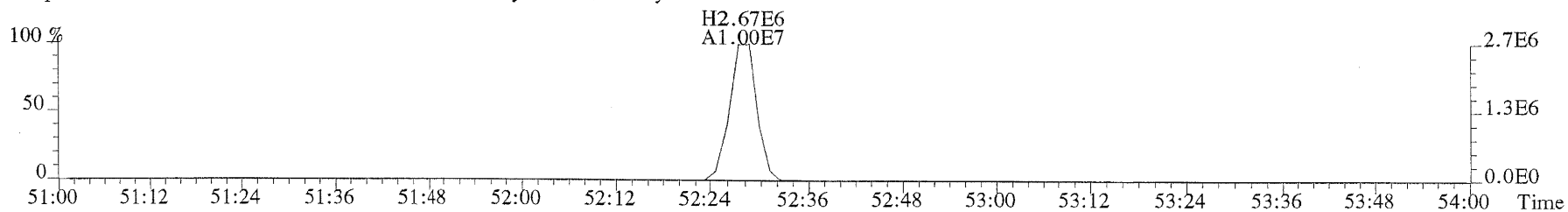
File:30JUL18Z #1-314 Acq:30-JUL-2018 19:07:26 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-006-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-314 Acq:30-JUL-2018 19:07:26 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:11719-006-0001-SA File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-314 Acq:30-JUL-2018 19:07:26 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:11719-006-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-007-0001-SA Filename: 31JUL18Z Sam:5 Acquired: 31-JUL-18 14:06:41 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SC-ENR-CA-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.030

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	1.25e+05	3.01 y	14:31	1.28	6.40		-	-	*			
13C-PCB-1	3.05e+07	3.35 y	14:30	0.83	1730					86.9	6.61e+06	1.96e+06
PCB-2	4.72e+04	3.20 y	16:46	1.15	2.66	J	-	-	*			
PCB-3	1.15e+05	2.92 y	16:59	1.27	5.90		-	-	*			
13C-PCB-3	3.07e+07	3.35 y	16:58	0.83	1730					87.0	5.47e+06	1.56e+06
PCB-4	3.12e+05	1.45 y	18:13	1.44	17.1		-	-	*			
PCB-10	3.97e+04	1.58 y	18:18	1.35	1.70	J	-	-	*			
13C-PCB-4	2.51e+07	1.63 y	18:12	0.68	1720					86.7	3.50e+06	2.13e+06
PCB-9	1.14e+05	1.56 y	19:56	1.44	4.55		-	-	*			
PCB-7	1.57e+05	1.36 y	19:58	1.55	5.85		-	-	*			
PCB-6	6.50e+05	1.71 y	20:34	1.44	26.1		-	-	*			
PCB-8	2.68e+06	1.46 y	20:56	1.45	107		-	-	*			
PCB-5	6.22e+04	1.59 y	21:03	1.46	2.46	J	-	-	*			
PCB-14	*	* n	NotFnd	1.36	*		930	3840	2.85			
PCB-11	6.63e+05	1.50 y	23:09	1.31	29.3		-	-	*			
PCB-13	1.43e+05	1.50 y	23:28	1.38	5.98		-	-	*			
PCB-12	1.91e+05	1.63 y	23:30	1.44	7.67		-	-	*			
PCB-15	2.22e+06	1.38 y	23:50	1.38	73.4		-	-	*			
13C-PCB-15	4.37e+07	1.61 y	23:49	1.01	2020					102	4.00e+06	2.48e+06
PCB-19	1.09e+05	1.19 y	22:08	1.31	10.4		-	-	*			
PCB-30	*	* n	NotFnd	1.68	*		440	442	0.972			
PCB-18	1.35e+06	1.14 y	23:43	1.25	135		-	-	*			
PCB-17	7.37e+05	1.14 y	23:53	1.37	66.9		-	-	*			
PCB-27	1.11e+05	1.13 y	24:23	1.68	8.21		-	-	*			
PCB-24	1.23e+05	1.18 y	24:26	1.74	8.84		-	-	*			
PCB-16	3.84e+05	1.00 y	24:51	1.49	32.3		-	-	*			
PCB-32	7.93e+05	1.20 y	24:54	1.50	65.7		-	-	*			
13C-PCB-19	1.59e+07	1.13 y	22:08	0.35	2120					107	1.46e+06	1.23e+06
13C-PCB-9	4.24e+07	1.65 y	19:55	-	11.3							
PCB-34	*	* n	NotFnd	1.40	*		321	282	0.812			
PCB-23	*	* n	NotFnd	1.50	*		321	282	0.756			
PCB-29	*	* n	NotFnd	1.31	*		321	282	0.862			
PCB-26	1.17e+06	1.15 y	26:14	1.25	60.2		-	-	*			
PCB-25	7.18e+05	1.18 y	26:23	1.60	28.7		-	-	*			
PCB-31	6.66e+06	1.12 y	26:45	1.21	353		-	-	*			
PCB-28	5.13e+06	1.09 y	26:50	1.69	195		-	-	*			
PCB-20	3.08e+06	1.13 y	27:26	1.36	145		-	-	*		Co-elute PCB 21/33	
PCB-21	3.08e+06	1.13 y	27:26	1.36	145		-	-	*		Co-elute PCB 20/33	
PCB-33	3.08e+06	1.13 y	27:26	1.36	145		-	-	*		Co-elute PCB 20/21	
PCB-22	1.97e+06	1.03 y	27:50	1.41	89.9		-	-	*			
PCB-36	*	* n	NotFnd	1.20	*		321	282	0.947			
PCB-39	*	* n	NotFnd	1.05	*		321	282	1.08			
PCB-38	*	* n	NotFnd	1.39	*		321	282	0.816			
PCB-35	*	* n	NotFnd	1.12	*		321	282	1.01			
PCB-37	2.11e+06	1.08 y	30:41	1.40	97.0		-	-	*			
13C-PCB-37	3.10e+07	1.05 y	30:39	1.54	1770					89.0	1.36e+06	1.28e+06

PCB-54	*	*	n	NotFnd	1.13	*	321	423	0.869				
PCB-50	*	*	n	NotFnd	0.72	*	321	423	1.37				
PCB-53	4.04e+05	0.76	y	27:26	0.76	44.4	-	-	*				
PCB-51	1.65e+05	0.77	y	27:45	0.76	18.3	-	-	*				
PCB-45	3.31e+05	0.71	y	28:09	0.63	43.8	-	-	*				
PCB-46	1.17e+05	0.87	y	28:37	0.65	15.2	-	-	*				
PCB-52	5.03e+06	0.76	y	29:08	0.92	460	-	-	*		Co-elute PCB 69		
PCB-69	5.03e+06	0.76	y	29:08	0.92	460	-	-	*		Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	0.87	*	321	423	1.13				
PCB-43	3.07e+06	0.82	y	29:25	0.72	358	-	-	*		Co-elute PCB 49		
PCB-49	3.07e+06	0.82	y	29:25	0.72	358	-	-	*		Co-elute PCB 43		
PCB-47	1.13e+06	0.75	y	29:39	0.84	114	-	-	*				
PCB-48	3.04e+05	0.74	y	29:44	0.96	26.7	-	-	*		Co-elute PCB 75		
PCB-75	3.04e+05	0.74	y	29:44	0.96	26.7	-	-	*		Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.01	*	321	423	0.971				
PCB-62	*	*	n	NotFnd	0.97	*	321	423	1.02				
PCB-44	2.59e+06	0.75	y	30:25	0.66	327	-	-	*				
PCB-42	9.45e+05	0.80	y	30:39	0.85	93.4	-	-	*		Co-elute PCB 59		
PCB-59	9.45e+05	0.80	y	30:39	0.85	93.4	-	-	*		Co-elute PCB 42		
PCB-72	1.88e+06	0.74	y	31:13	0.92	172	-	-	*		Co-elute PCB 41/71/64		
PCB-41	1.88e+06	0.74	y	31:13	0.92	172	-	-	*		Co-elute PCB 72/71/64		
PCB-71	1.88e+06	0.74	y	31:13	0.92	172	-	-	*		Co-elute PCB 72/41/64		
PCB-64	1.88e+06	0.74	y	31:13	0.92	172	-	-	*		Co-elute PCB 72/41/71		
PCB-68	*	*	n	NotFnd	1.03	*	321	423	0.954				
PCB-40	2.46e+05	0.78	y	31:35	0.59	35.0	-	-	*				
PCB-57	*	*	n	NotFnd	0.97	*	321	423	1.02				
PCB-67	7.21e+04	0.76	y	32:11	0.98	6.15	-	-	*				
PCB-58	9.05e+04	0.73	y	32:16	0.90	8.48	-	-	*				
PCB-63	1.84e+05	0.76	y	32:31	1.02	15.2	-	-	*				
PCB-74	2.60e+06	0.78	y	32:48	1.13	193	-	-	*				
PCB-61	6.95e+06	0.82	y	32:58	1.07	544	-	-	*		Co-elute PCB 70		
PCB-70	6.95e+06	0.82	y	32:58	1.07	544	-	-	*		Co-elute PCB 61		
PCB-76	4.89e+06	0.71	y	33:12	1.00	412	-	-	*		Co-elute PCB 66		
PCB-66	4.89e+06	0.71	y	33:12	1.00	412	-	-	*		Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.10	*	321	423	0.894				
PCB-55	1.05e+05	0.77	y	33:43	1.07	8.28	-	-	*				
13C-PCB-54	2.37e+07	0.79	y	25:40	1.28	1620				81.5	1.66e+06	2.10e+06	
PCB-104	*	*	n	NotFnd	1.27	*	230	228	1.09				
PCB-96	4.01e+04	1.73	y	31:25	1.13	4.48	-	-	*				
PCB-103	9.98e+04	1.55	y	31:56	0.97	13.1	-	-	*				
PCB-100	5.45e+04	1.36	y	32:18	0.98	7.07	-	-	*				
PCB-94	3.04e+04	1.50	y	32:41	0.87	4.43	-	-	*				
PCB-98	*	*	n	NotFnd	1.02	*	230	228	1.36		Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.02	*	230	228	1.36		Co-elute PCB 98		
PCB-95	4.51e+06	1.56	y	33:13	0.88	650	-	-	*				
PCB-93	*	*	n	NotFnd	0.81	*	230	228	1.70				
PCB-88	9.15e+04	1.40	y	33:33	0.91	12.8	-	-	*		Co-elute PCB 91		
PCB-91	9.15e+04	1.40	y	33:33	0.91	12.8	-	-	*		Co-elute PCB 88		
PCB-121	5.63e+05	1.63	y	33:38	1.12	64.0	-	-	*				
13C-PCB-104	1.57e+07	1.59	y	30:13	0.76	1810				91.0	9.99e+05	6.47e+05	
13C-PCB-28	4.04e+07	1.06	y	26:47	1.88	1890				95.1	2.53e+06	2.31e+06	
13C-PCB-52	2.27e+07	0.79	y	29:06	-	16.7							

PCB-56	1.70e+06	0.82	y	34:11	1.26	234	-	-	*		Co-elute PCB 60
PCB-60	1.70e+06	0.82	y	34:11	1.26	234	-	-	*		Co-elute PCB 56
PCB-79	7.55e+04	0.86	y	35:11	1.19	11.0	-	-	*		
PCB-78	*	*	n	NotFnd	1.13	*	232	246	1.38		
PCB-81	7.48e+04	0.75	y	36:23	1.25	10.3	-	-	*		
13C-PCB-81	1.15e+07	0.82	y	36:25	1.79	1050				53.0	5.57e+05 6.61e+05
PCB-77	3.07e+05	0.83	y	37:00	1.17	45.5	-	-	*		
13C-PCB-77	1.15e+07	0.79	y	36:58	1.72	1090				54.9	9.07e+05 1.14e+06
PCB-155	*	*	n	NotFnd	1.21	*	236	204	0.842		
PCB-150	4.12e+04	1.09	y	35:34	1.07	6.77	-	-	*		
PCB-152	*	*	n	NotFnd	1.04	*	236	204	0.985		
PCB-145	*	*	n	NotFnd	1.09	*	236	204	0.941		
PCB-136	9.78e+05	1.25	y	36:46	0.97	177	-	-	*		
PCB-148	*	*	n	NotFnd	0.86	*	236	204	1.19		
PCB-154	1.43e+05	1.35	y	37:23	1.02	24.7	-	-	*		
13C-PCB-155	1.13e+07	1.29	y	34:26	0.83	2210				111	1.20e+06 9.38e+05
13C-PCB-111	1.17e+07	1.57	y	36:32	1.23	1550				78.0	1.15e+06 7.64e+05
13C-PCB-101	1.21e+07	1.58	y	34:51	-	9.24					
PCB-84	2.04e+06	1.59	y	34:31	0.58	448	-	-	*		Co-elute PCB 92
PCB-92	2.04e+06	1.59	y	34:31	0.58	448	-	-	*		Co-elute PCB 84
PCB-89	3.17e+04	1.65	y	34:41	0.56	7.24	-	-	*		
PCB-90	5.72e+06	1.52	y	34:52	0.66	1100	-	-	*		Co-elute PCB 101
PCB-101	5.72e+06	1.52	y	34:52	0.66	1100	-	-	*		Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.69	*	222	123	1.11		
PCB-99	2.52e+06	1.55	y	35:11	0.75	427	-	-	*		
PCB-119	2.73e+05	1.49	y	35:38	0.79	44.1	-	-	*		
PCB-83	2.29e+05	1.65	y	35:44	0.67	43.5	-	-	*		Co-elute PCB 112
PCB-112	2.29e+05	1.65	y	35:44	0.67	43.5	-	-	*		Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.80	*	222	123	0.953		
PCB-97	1.68e+06	1.47	y	36:06	0.72	295	-	-	*		
PCB-86	*	*	n	NotFnd	0.66	*	222	123	1.15		
PCB-125	1.40e+06	1.55	y	36:25	0.73	243	-	-	*		Co-elute PCB 87/117
PCB-87	1.40e+06	1.55	y	36:25	0.73	243	-	-	*		Co-elute PCB 125/117
PCB-117	1.40e+06	1.55	y	36:25	0.73	243	-	-	*		Co-elute PCB 125/87
PCB-111	7.98e+04	1.62	y	36:32	0.91	11.2	-	-	*		Co-elute PCB 115
PCB-115	7.98e+04	1.62	y	36:32	0.91	11.2	-	-	*		Co-elute PCB 111
PCB-85	8.59e+05	1.54	y	36:39	0.69	157	-	-	*		Co-elute PCB 116
PCB-116	8.59e+05	1.54	y	36:39	0.69	157	-	-	*		Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.86	*	222	123	0.885		
PCB-110	5.00e+06	1.56	y	37:00	0.85	744	-	-	*		
PCB-82	4.49e+05	1.66	y	37:34	0.51	111	-	-	*		
PCB-124	3.12e+05	1.32	y	38:16	1.24	32.0	-	-	*		
PCB-108	4.84e+05	1.50	y	38:26	1.24	49.6	-	-	*		Co-elute PCB 107
PCB-107	4.84e+05	1.50	y	38:26	1.24	49.6	-	-	*		Co-elute PCB 108
PCB-123	1.99e+05	1.63	y	38:34	1.50	15.1	-	-	*		
13C-PCB-123	1.75e+07	1.58	y	38:33	1.55	1880				94.6	1.47e+06 9.28e+05
PCB-118	6.47e+06	1.59	y	38:44	1.11	800	-	-	*		Co-elute PCB 106
PCB-106	6.47e+06	1.59	y	38:44	1.11	800	-	-	*		Co-elute PCB 118
13C-PCB-118	1.44e+07	1.62	y	38:42	1.75	1380				69.5	1.32e+06 8.24e+05
PCB-114	1.76e+05	1.72	y	39:22	1.30	17.3	-	-	*		
13C-PCB-114	1.55e+07	1.62	y	39:20	1.58	1640				82.5	1.35e+06 8.26e+05
PCB-122	9.26e+04	1.53	y	39:27	1.17	10.0	-	-	*		
PCB-105	2.88e+06	1.53	y	40:11	1.24	301	-	-	*		
13C-PCB-105	1.53e+07	1.57	y	40:10	1.49	1720				86.7	1.42e+06 8.98e+05

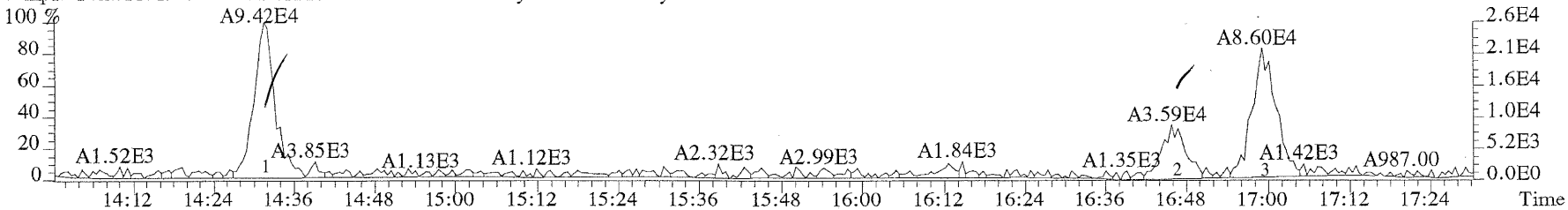
PCB-127	*	*	n	NotFnd	1.09	*		322	255	1.17				
PCB-126	3.57e+04	1.52	y	42:20	1.28	3.78	J	-	-	*				
13C-PCB-126	1.47e+07	1.59	y	42:20	1.40	1750					87.9	1.42e+06	9.12e+05	
PCB-151	1.36e+06	1.22	y	37:58	0.78	211		-	-	*				
PCB-135	7.06e+05	1.22	y	38:10	0.91	93.6		-	-	*				
PCB-144	2.62e+05	1.25	y	38:16	0.91	34.9		-	-	*				
PCB-147	1.13e+05	1.23	y	38:24	0.99	13.9		-	-	*				
PCB-139	5.75e+06	1.27	y	38:37	0.98	712		-	-	*		Co-elute PCB 149		
PCB-149	5.75e+06	1.27	y	38:37	0.98	712		-	-	*		Co-elute PCB 139		
PCB-140	3.18e+04	1.11	y	38:49	0.99	3.89	J	-	-	*				
PCB-143	2.96e+05	1.14	y	39:14	0.91	39.2		-	-	*		Co-elute PCB 134		
PCB-134	2.96e+05	1.14	y	39:14	0.91	39.2		-	-	*		Co-elute PCB 143		
PCB-131	1.78e+05	1.26	y	39:30	0.91	23.5		-	-	*		Co-elute PCB 133		
PCB-133	1.78e+05	1.26	y	39:30	0.91	23.5		-	-	*		Co-elute PCB 131		
PCB-142	*	*	n	NotFnd	0.83	*		364	332	1.39				
PCB-165	1.02e+06	1.21	y	39:55	1.09	113		-	-	*		Co-elute PCB 146		
PCB-146	1.02e+06	1.21	y	39:55	1.09	113		-	-	*		Co-elute PCB 165		
PCB-161	2.24e+06	1.23	y	40:10	1.00	270		-	-	*		Co-elute PCB 132		
PCB-132	2.24e+06	1.23	y	40:10	1.00	270		-	-	*		Co-elute PCB 161		
PCB-153	6.92e+06	1.28	y	40:18	1.09	766		-	-	*				
PCB-168	*	*	n	NotFnd	1.19	*		364	332	0.979				
PCB-141	1.05e+06	1.22	y	41:01	0.92	138		-	-	*				
PCB-137	3.26e+05	1.23	y	41:24	0.82	48.2		-	-	*				
PCB-130	2.58e+05	1.27	y	41:27	0.89	35.1		-	-	*				
PCB-138	8.03e+06	1.26	y	41:50	1.20	810		-	-	*		Co-elute PCB 163/164		
PCB-163	8.03e+06	1.26	y	41:50	1.20	810		-	-	*		Co-elute PCB 138/164		
PCB-164	8.03e+06	1.26	y	41:50	1.20	810		-	-	*		Co-elute PCB 138/163		
PCB-158	5.93e+05	1.31	y	42:05	1.21	59.0		-	-	*		Co-elute PCB 160		
PCB-160	5.93e+05	1.31	y	42:05	1.21	59.0		-	-	*		Co-elute PCB 158		
PCB-129	1.76e+05	1.26	y	42:16	0.78	27.2		-	-	*				
PCB-166	2.80e+04	1.31	y	42:35	1.14	2.97	J	-	-	*				
PCB-159	6.30e+04	1.29	y	43:04	1.20	6.35		-	-	*				
PCB-128	1.13e+06	1.30	y	43:19	1.02	134		-	-	*		Co-elute PCB 162		
PCB-162	1.13e+06	1.30	y	43:19	1.02	134		-	-	*		Co-elute PCB 128		
PCB-167	4.28e+05	1.33	y	43:40	1.08	46.9		-	-	*				
13C-PCB-167	1.67e+07	1.27	y	43:40	1.16	2410					121	1.73e+06	1.32e+06	
PCB-156	1.05e+06	1.26	y	44:54	1.13	118		-	-	*				
13C-PCB-156	1.57e+07	1.29	y	44:53	1.10	2380					120	1.60e+06	1.21e+06	
PCB-157	2.51e+05	1.22	y	45:09	1.21	24.5		-	-	*				
13C-PCB-157	1.69e+07	1.26	y	45:08	1.13	2510					126	1.56e+06	1.26e+06	
PCB-169	*	*	n	NotFnd	1.13	*		364	332	0.932				
13C-PCB-169	1.65e+07	1.27	y	46:56	1.06	2590					130	1.85e+06	1.44e+06	

FAL ID: 11719-007-0001-SA Filename: 31JUL18Z Sam:5 Acquired: 31-JUL-18 14:06:41 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SC-ENR-CA-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.030

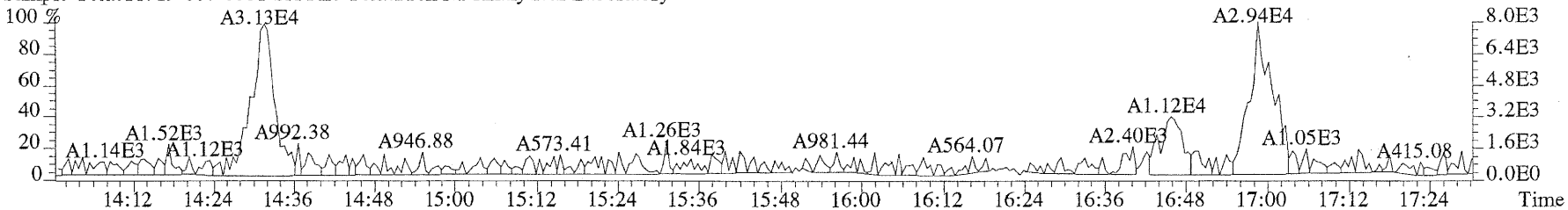
PCB-188	*	*	n	NotFnd	1.18	*		244	248	1.14			
13C-PCB-188	1.24e+07	1.08	y	39:52	0.83	2480					125	9.34e+05	8.88e+05
PCB-184	*	*	n	NotFnd	1.27	*		244	248	0.860			
PCB-179	8.61e+05	1.01	y	41:02	1.16	120		-	-	*			
PCB-176	2.85e+05	1.10	y	41:32	1.13	40.7		-	-	*			
PCB-186	*	*	n	NotFnd	1.20	*		244	248	0.916			
PCB-178	3.67e+05	0.95	y	42:33	0.82	72.8		-	-	*			
PCB-175	*	*	n	NotFnd	0.85	*		244	248	1.29			
PCB-187	2.02e+06	1.02	y	43:04	0.97	337		-	-	*		Co-elute PCB 182	
PCB-182	2.02e+06	1.02	y	43:04	0.97	337		-	-	*		Co-elute PCB 187	
PCB-183	1.37e+06	1.05	y	43:24	0.92	241		-	-	*			
PCB-185	2.13e+05	1.21	y	43:58	0.87	39.5		-	-	*			
PCB-174	2.16e+06	1.06	y	44:18	0.88	395		-	-	*			
PCB-181	*	*	n	NotFnd	0.86	*		244	248	1.27			
PCB-177	1.30e+06	1.09	y	44:35	0.78	271		-	-	*			
PCB-171	5.40e+05	1.13	y	44:51	0.84	105		-	-	*			
PCB-173	*	*	n	NotFnd	0.75	*		244	248	1.47			
PCB-172	3.71e+05	0.95	y	45:37	0.79	76.2		-	-	*			
PCB-192	*	*	n	NotFnd	1.11	*		244	248	0.987			
PCB-180	5.14e+06	1.05	y	45:59	1.07	774		-	-	*			
PCB-193	3.26e+05	0.97	y	46:07	1.12	46.9		-	-	*			
PCB-191	1.02e+05	1.05	y	46:20	1.06	15.5		-	-	*			
PCB-170	2.07e+06	1.04	y	47:13	0.78	428		-	-	*			
PCB-190	5.43e+05	0.99	y	47:23	1.05	83.9		-	-	*			
PCB-189	9.14e+04	1.06	y	48:35	1.20	12.4		-	-	*			
13C-PCB-189	1.22e+07	1.06	y	48:33	0.72	2820					142	1.47e+06	1.42e+06
PCB-202	3.07e+05	0.91	y	44:59	1.07	44.8		-	-	*			
PCB-201	2.00e+05	0.84	y	45:26	0.97	32.0		-	-	*			
PCB-204	*	*	n	NotFnd	1.00	*		148	244	0.889			
PCB-197	5.93e+04	0.84	y	45:49	1.07	8.63		-	-	*			
PCB-200	1.42e+05	0.84	y	46:32	1.00	22.1		-	-	*			
PCB-198	1.97e+04	0.88	y	47:41	0.77	3.97	J	-	-	*			
PCB-199	9.84e+05	0.91	y	47:49	0.74	208		-	-	*			
PCB-203	1.21e+06	0.93	y	48:04	0.85	223		-	-	*		Co-elute PCB 196	
PCB-196	1.21e+06	0.93	y	48:04	0.85	223		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.28e+07	0.90	y	44:59	0.48	4450	A				224	1.05e+06	1.15e+06
13C-PCB-178	1.06e+07	1.04	y	42:33	0.61	2890					145	8.80e+05	8.09e+05
13C-PCB-138	1.19e+07	1.24	y	41:48	-	8.51							
PCB-195	4.37e+05	0.96	y	49:08	0.90	92.2		-	-	*			
PCB-194	8.98e+05	0.89	y	49:57	0.92	185		-	-	*			
PCB-205	6.26e+04	0.81	y	50:12	1.19	9.99		-	-	*			
13C-PCB-205	1.05e+07	0.91	y	50:11	1.25	2110					106	1.18e+06	1.29e+06
PCB-208	1.65e+05	1.35	y	49:14	0.99	28.4		-	-	*			
13C-PCB-208	1.16e+07	0.78	y	49:13	1.27	2300					116	1.38e+06	1.77e+06
PCB-207	6.25e+04	1.32	y	49:31	1.01	13.1		-	-	*			
PCB-206	3.36e+05	1.32	y	51:24	0.96	96.7		-	-	*			
13C-PCB-206	7.15e+06	0.82	y	51:23	0.93	1920					96.7	7.56e+05	9.46e+05
PCB-209	1.53e+05	1.08	y	52:33	1.13	35.8		-	-	*			
13C-PCB-209	7.55e+06	1.19	y	52:33	1.04	1830					91.9	9.59e+05	8.23e+05
13C-PCB-194	7.92e+06	0.93	y	49:57	-	5.85							

Analyst: _____ Date: 8/20/18

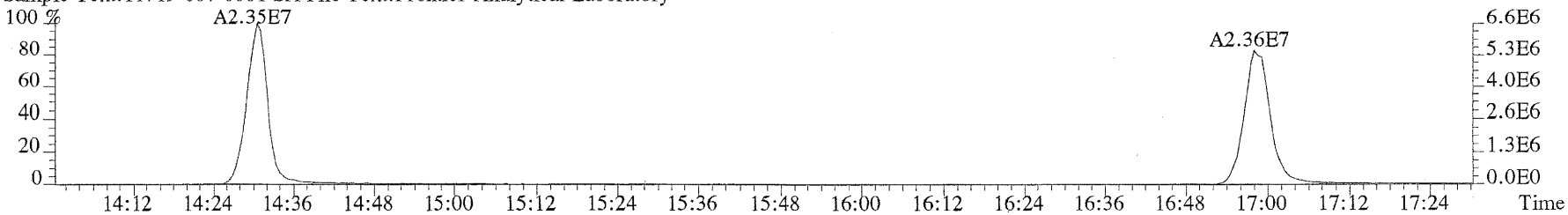
File:31JUL18Z #1-784 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



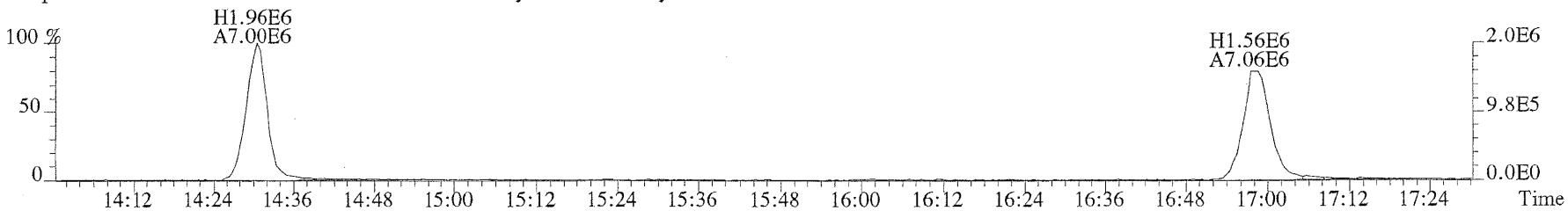
File:31JUL18Z #1-784 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



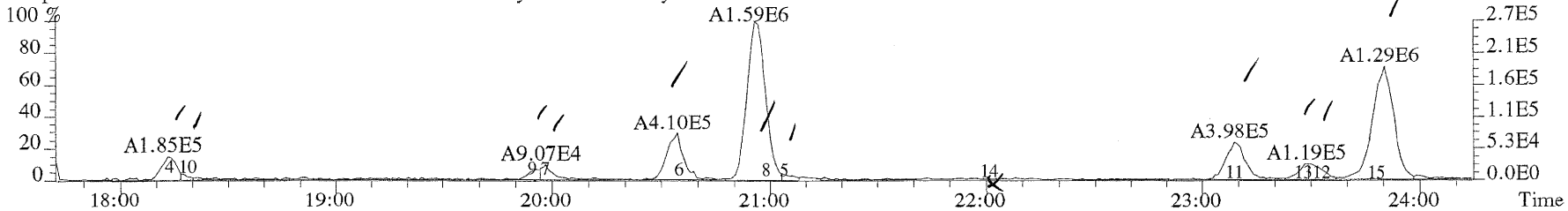
File:31JUL18Z #1-784 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



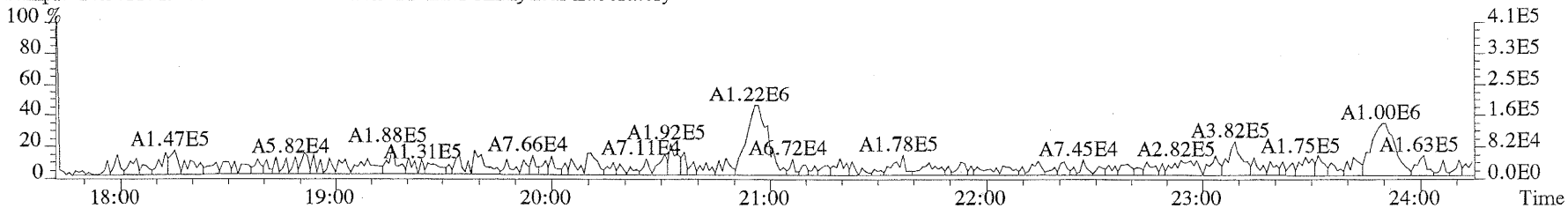
File:31JUL18Z #1-784 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



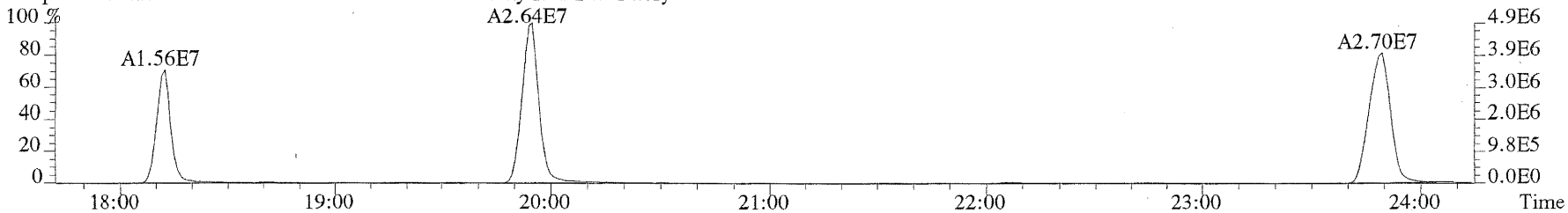
File:31JUL18Z #1-520 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



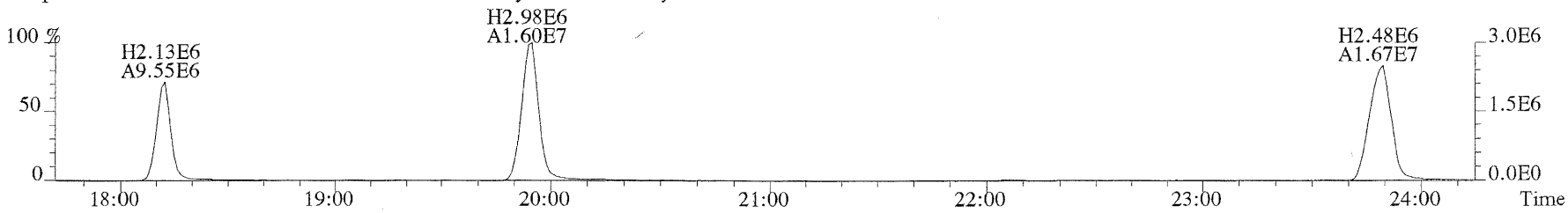
File:31JUL18Z #1-520 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



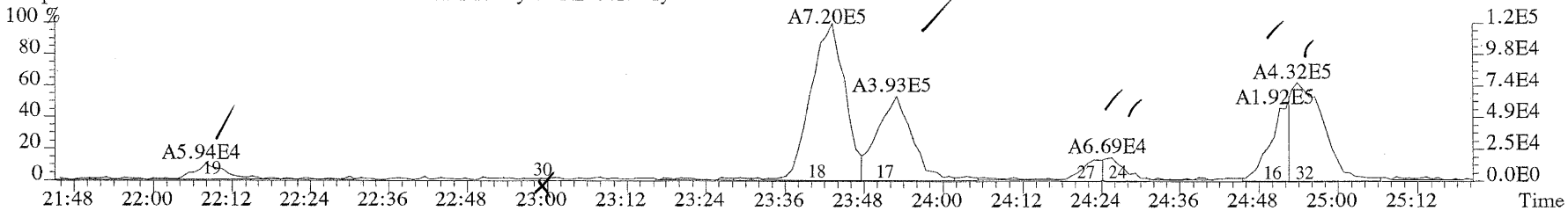
File:31JUL18Z #1-520 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



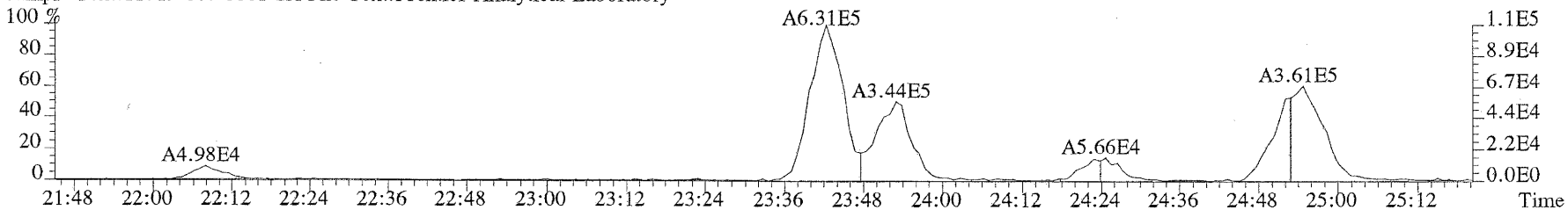
File:31JUL18Z #1-520 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



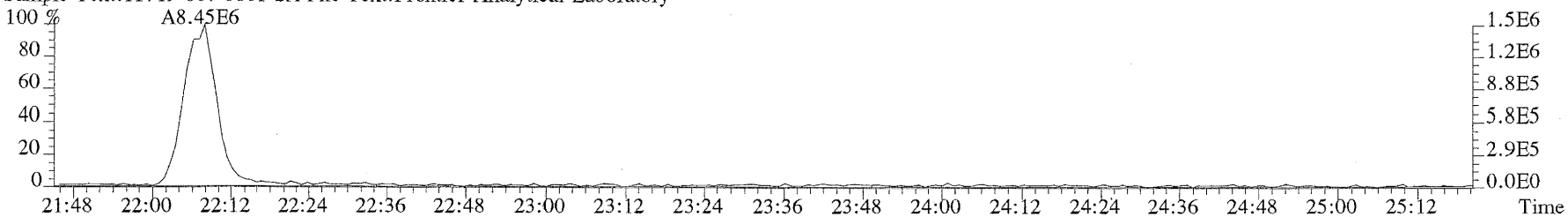
File:31JUL18Z #1-520 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



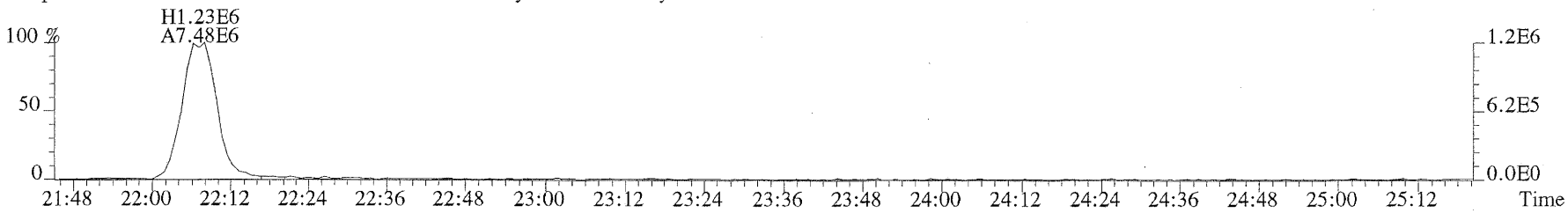
File:31JUL18Z #1-520 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



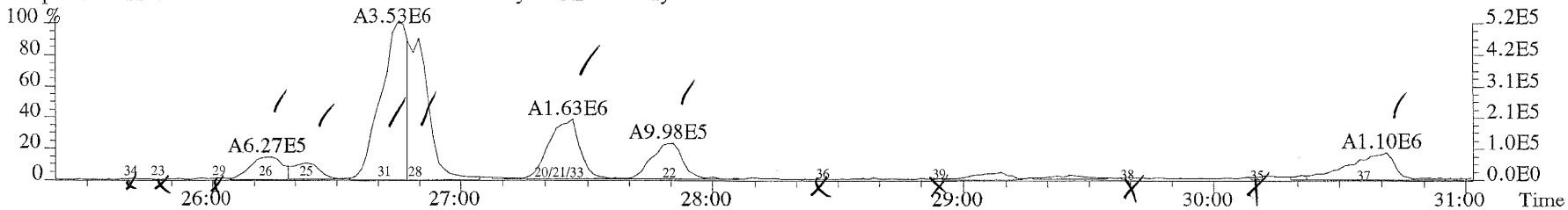
File:31JUL18Z #1-520 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



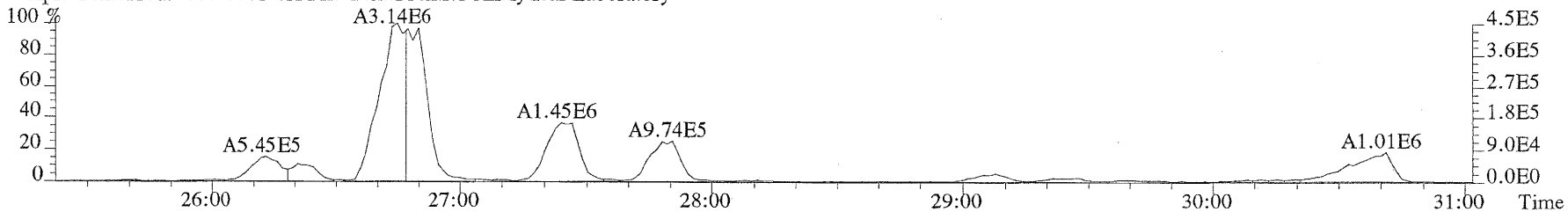
File:31JUL18Z #1-520 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



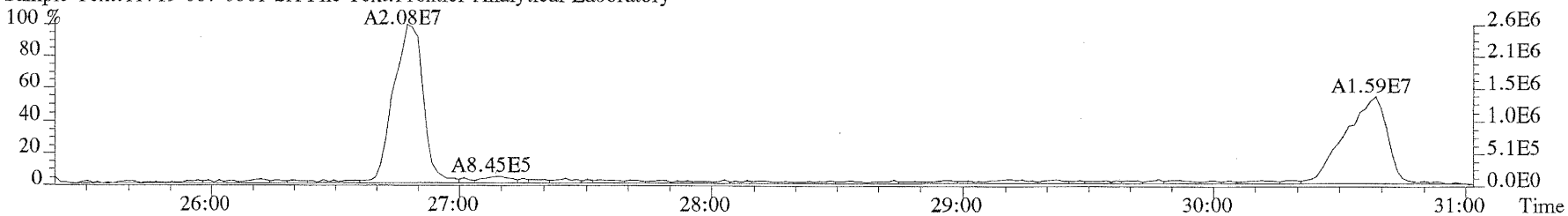
File:31JUL18Z #1-401 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



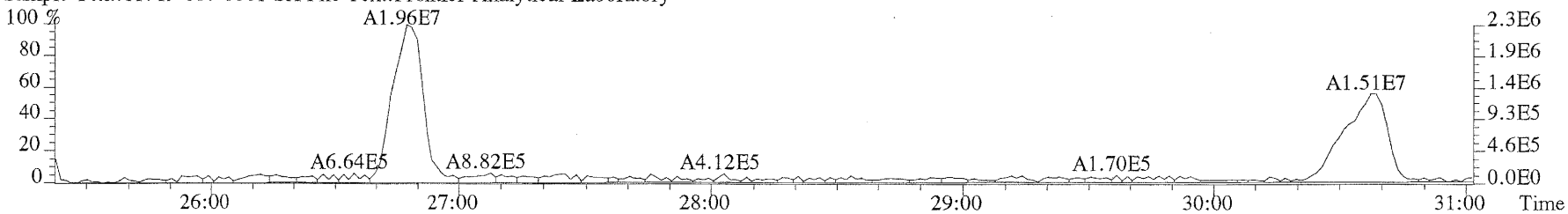
File:31JUL18Z #1-401 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



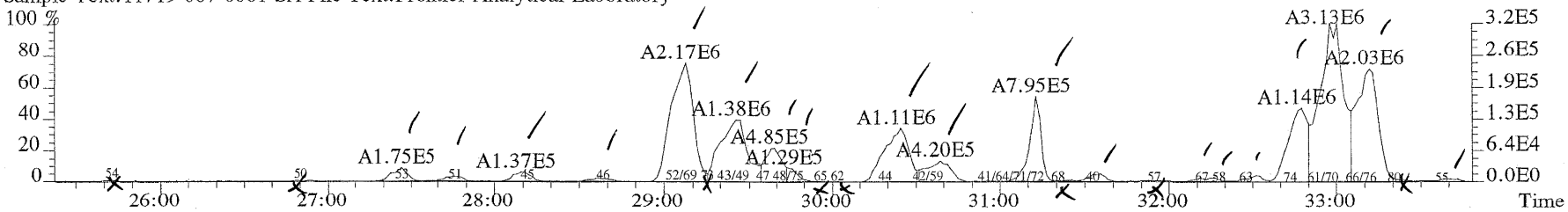
File:31JUL18Z #1-401 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



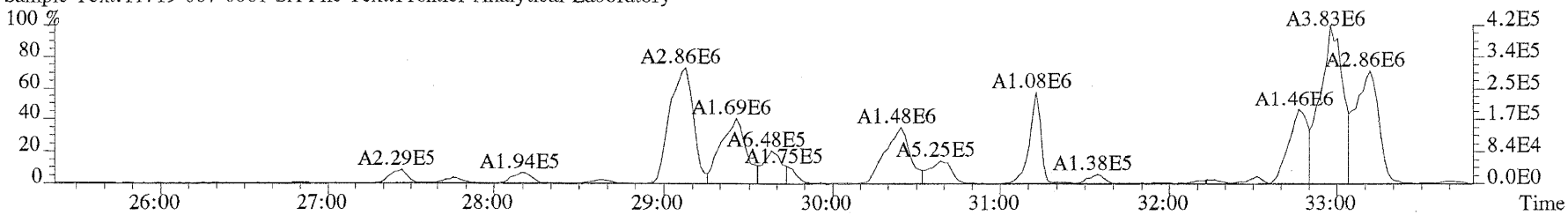
File:31JUL18Z #1-401 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



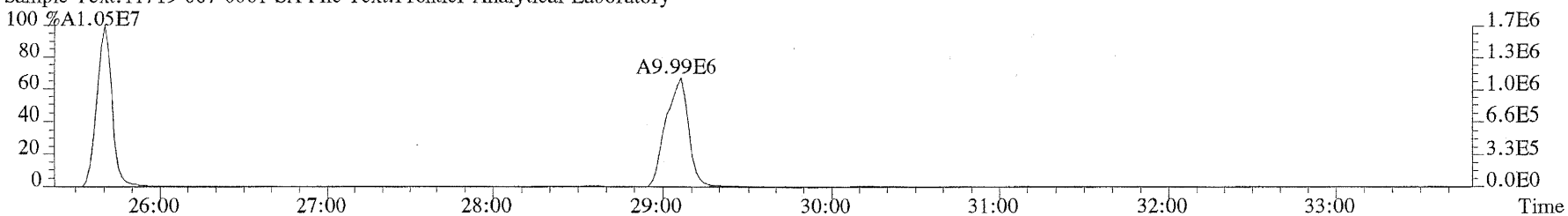
File:31JUL18Z #1-401 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 14:06:41 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:11719-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 14:06:41 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:11719-007-0001-SA File Text:Frontier Analytical Laboratory



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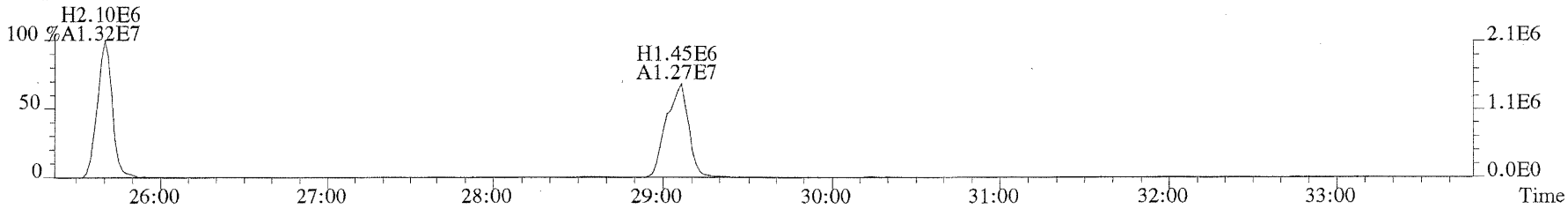
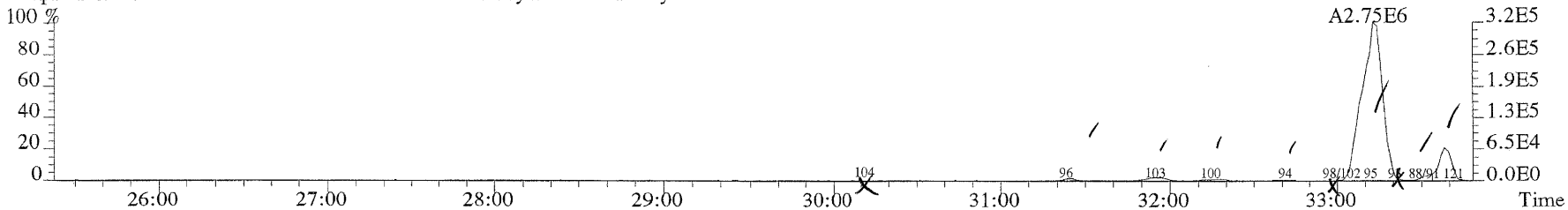
303.9597 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
325.8804 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:11719-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
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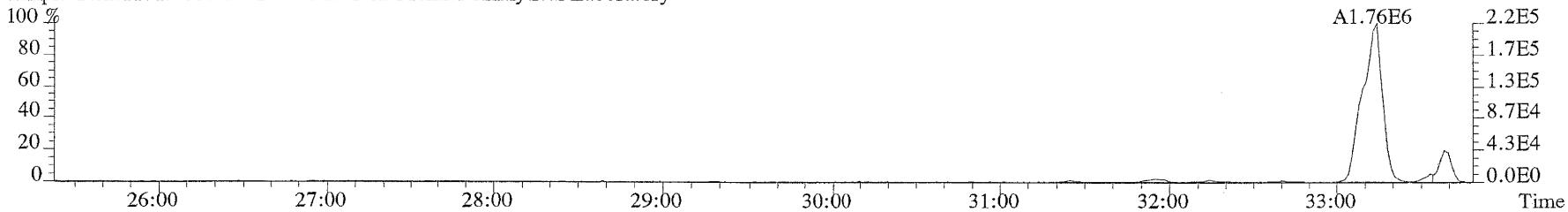
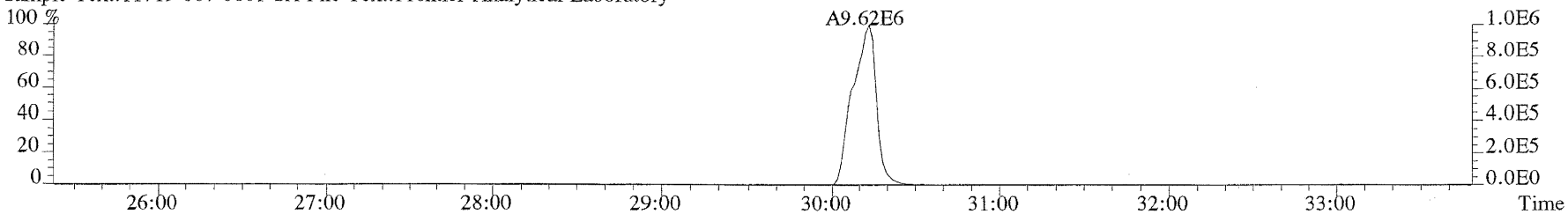
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
337.9207 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:11719-007-0001-SA File Text:Frontier Analytical Laboratory



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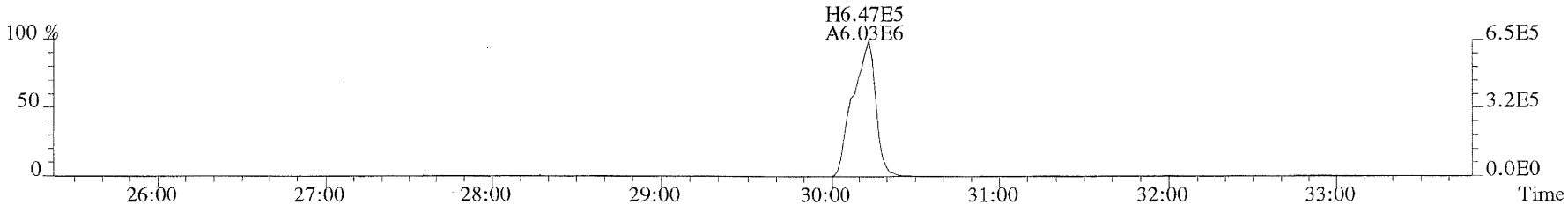
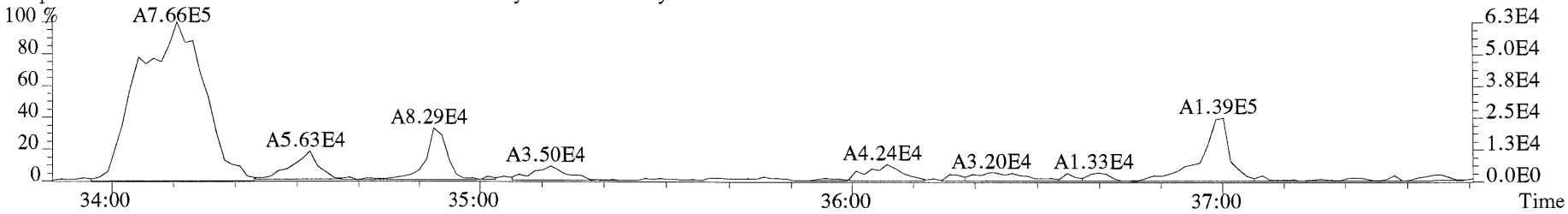
339.9178 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-183 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-183 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
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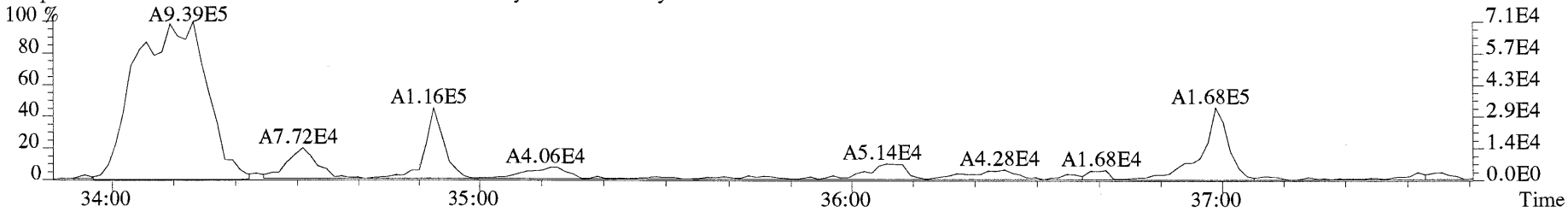
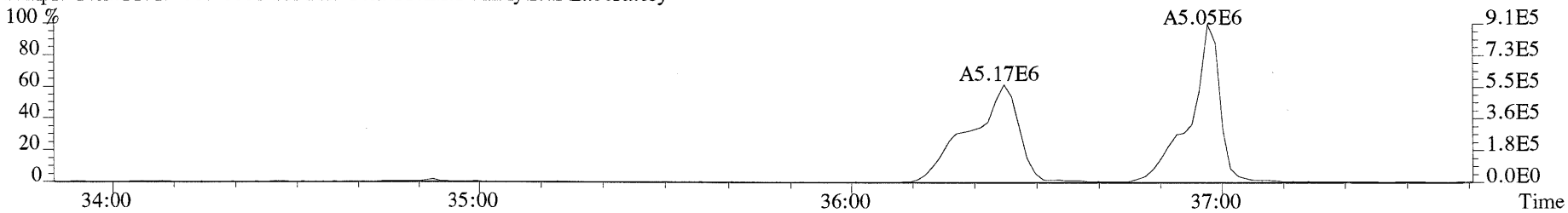
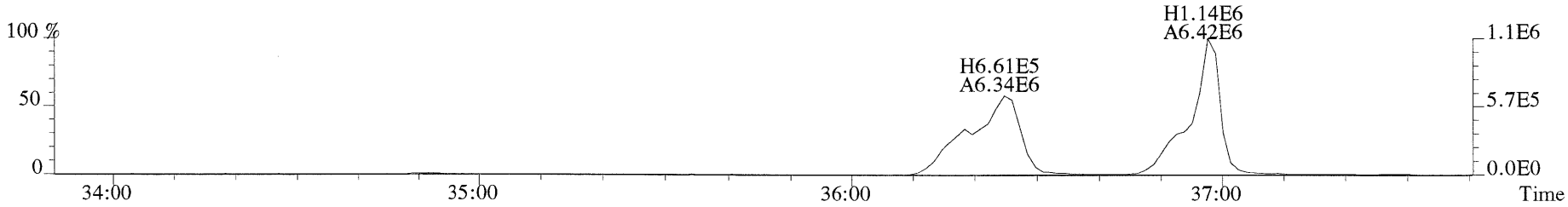
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



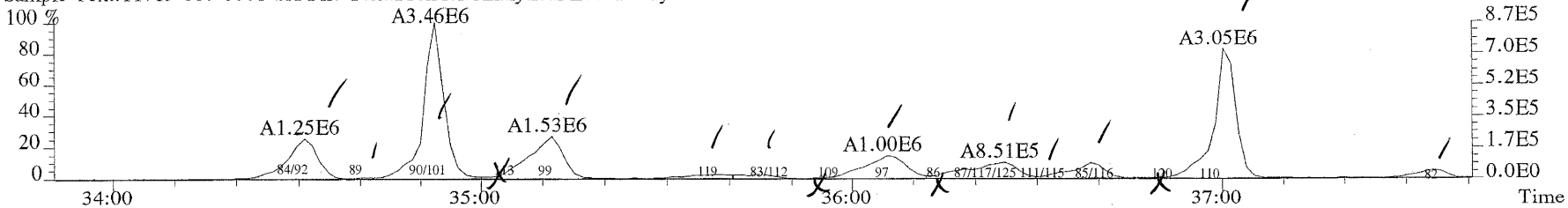
File:31JUL18Z #1-183 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



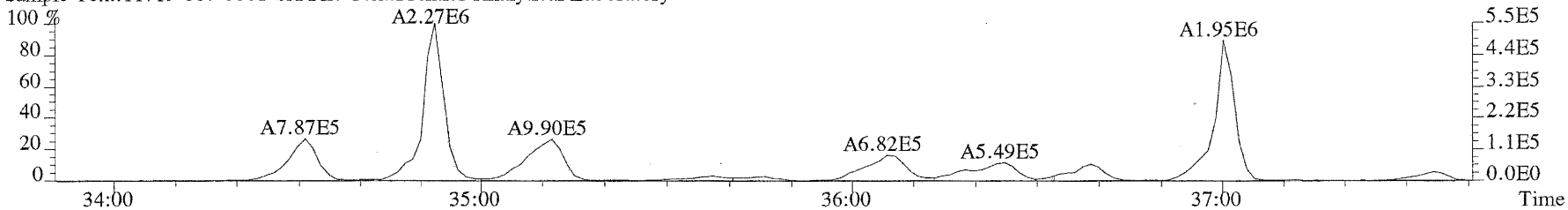
File:31JUL18Z #1-183 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



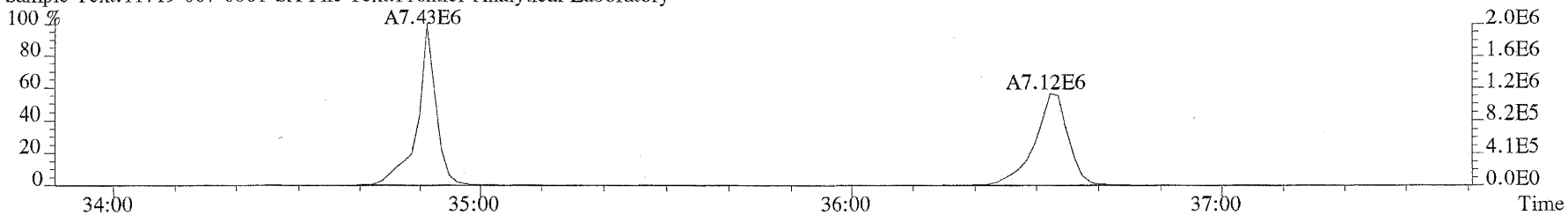
File:31JUL18Z #1-183 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



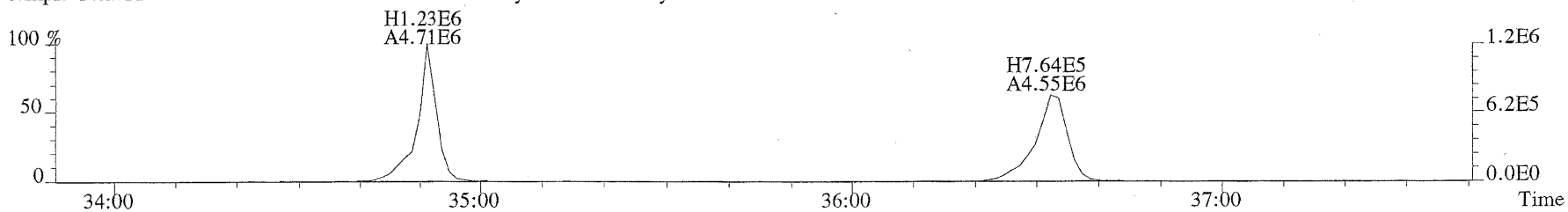
File:31JUL18Z #1-183 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



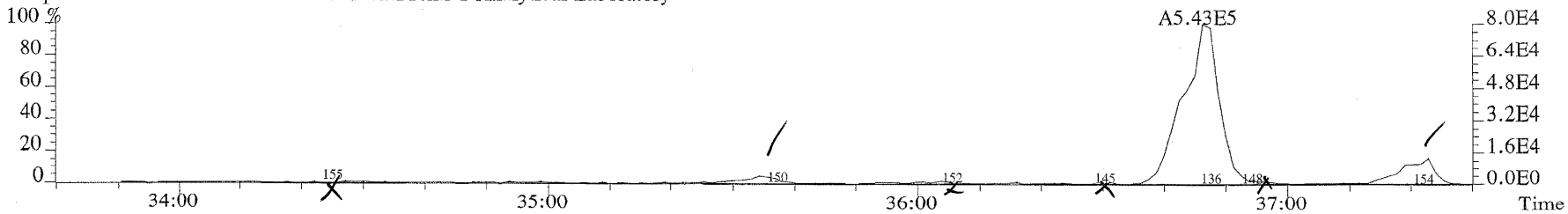
File:31JUL18Z #1-183 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



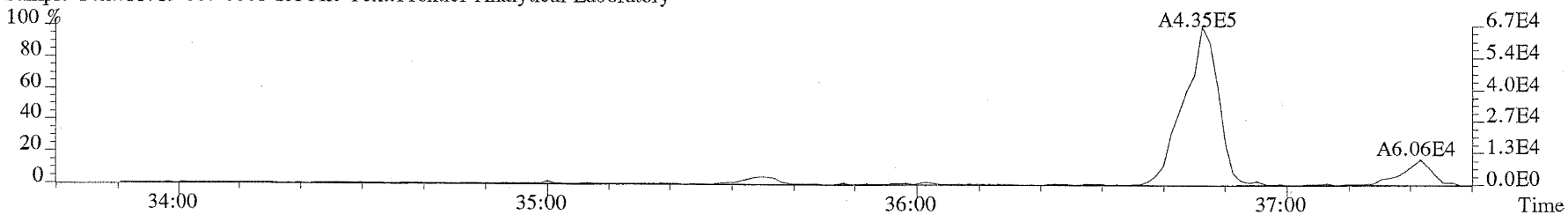
File:31JUL18Z #1-183 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



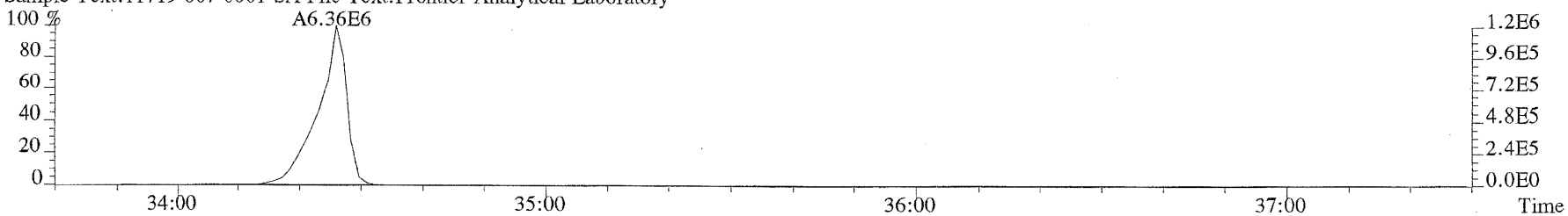
File:31JUL18Z #1-183 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



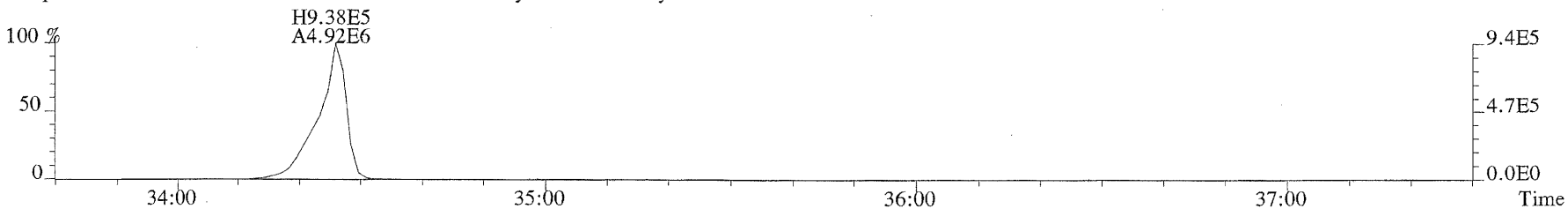
File:31JUL18Z #1-183 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



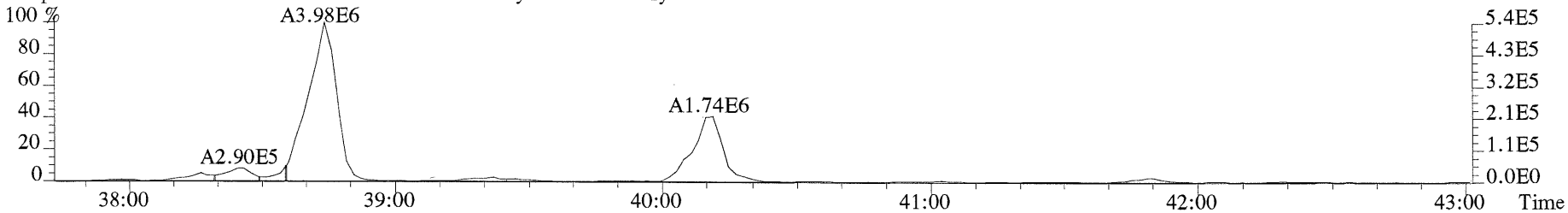
File:31JUL18Z #1-183 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



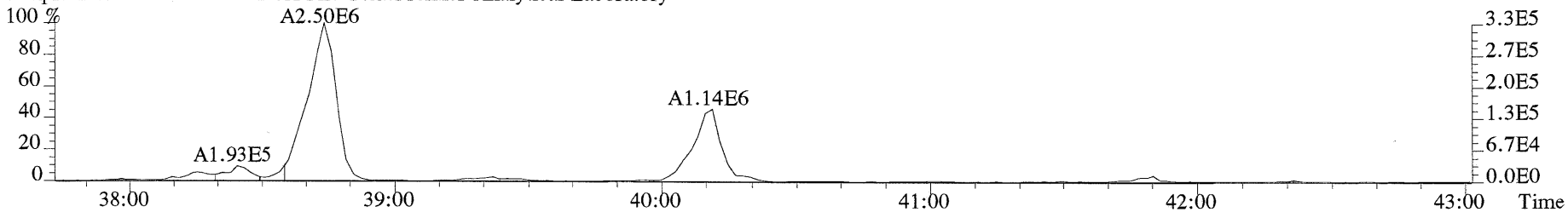
File:31JUL18Z #1-183 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 14:06:41 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:11719-007-0001-SA File Text:Frontier Analytical Laboratory



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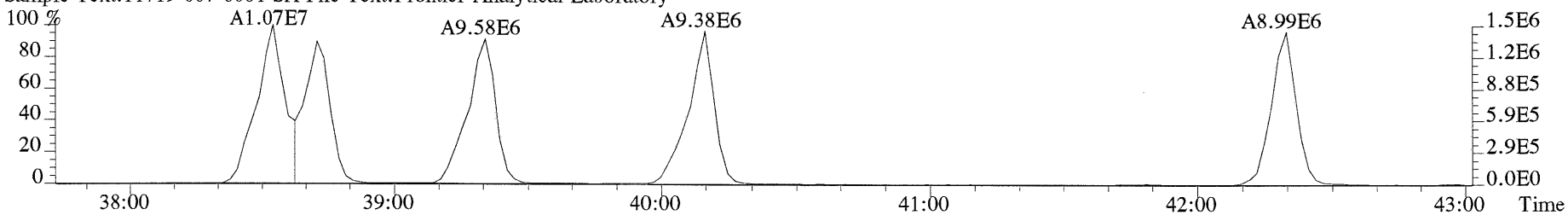
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



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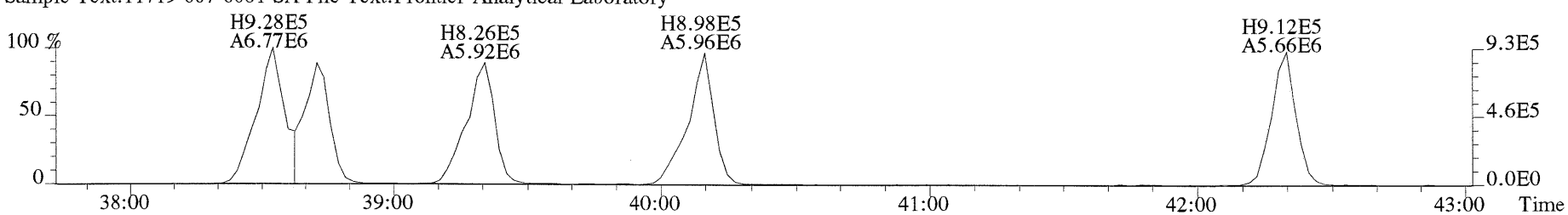
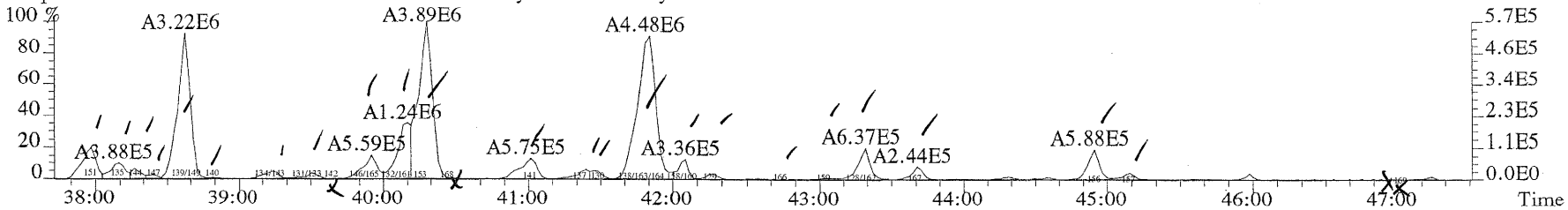
339.9178 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
359.8415 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:11719-007-0001-SA File Text:Frontier Analytical Laboratory



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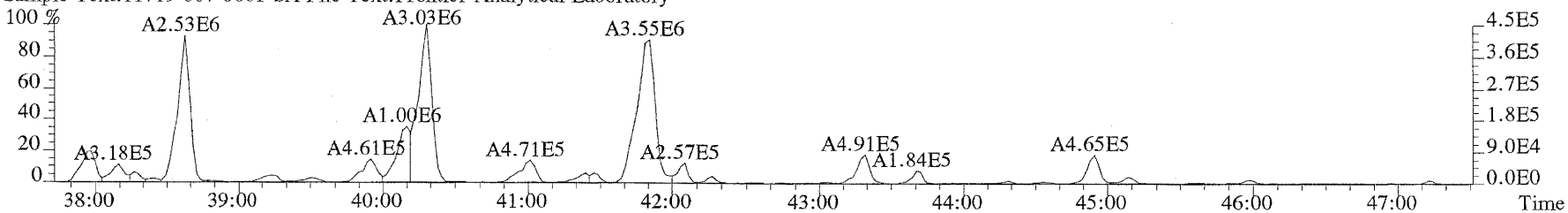
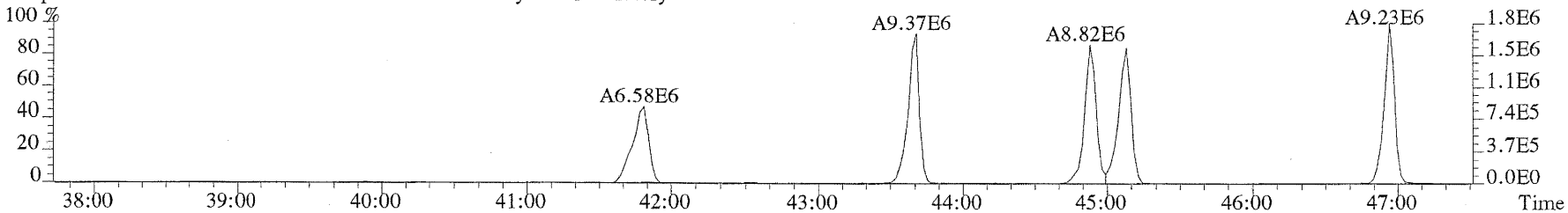
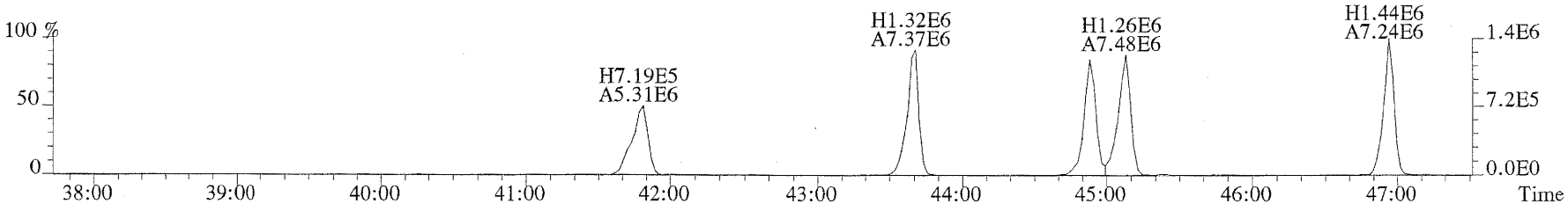
361.8385 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



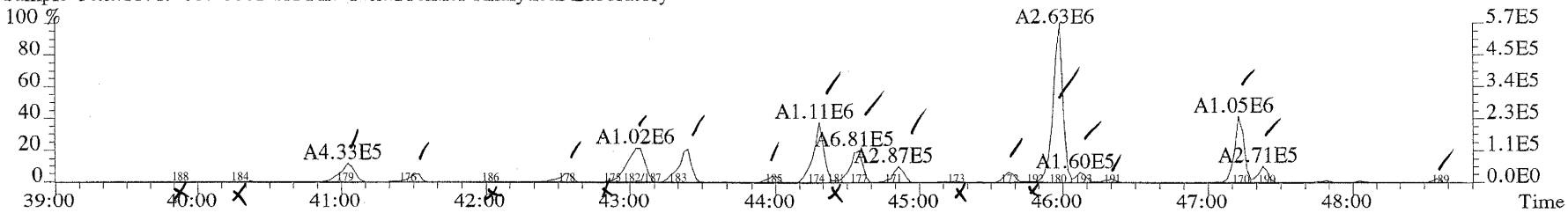
File:31JUL18Z #1-404 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



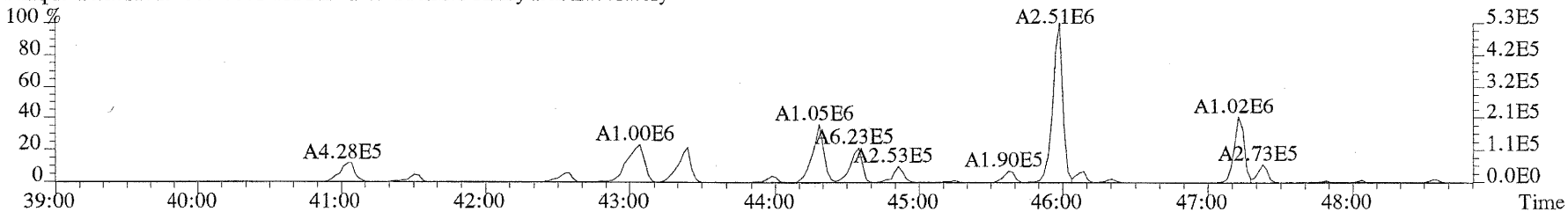
File:31JUL18Z #1-404 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



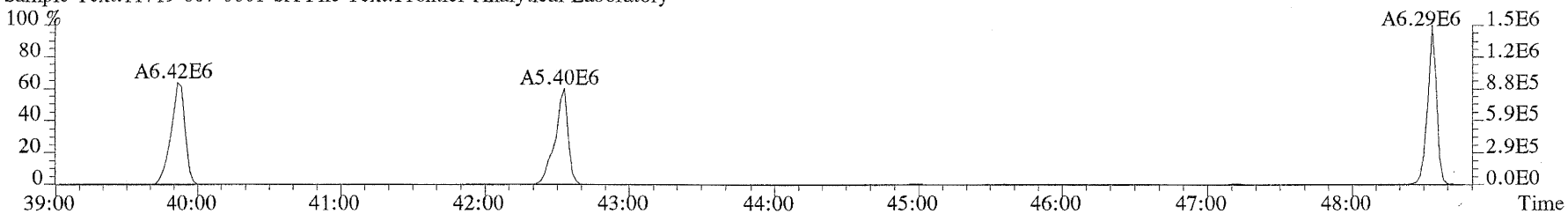
File:31JUL18Z #1-404 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 14:06:41 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:11719-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 14:06:41 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:11719-007-0001-SA File Text:Frontier Analytical Laboratory



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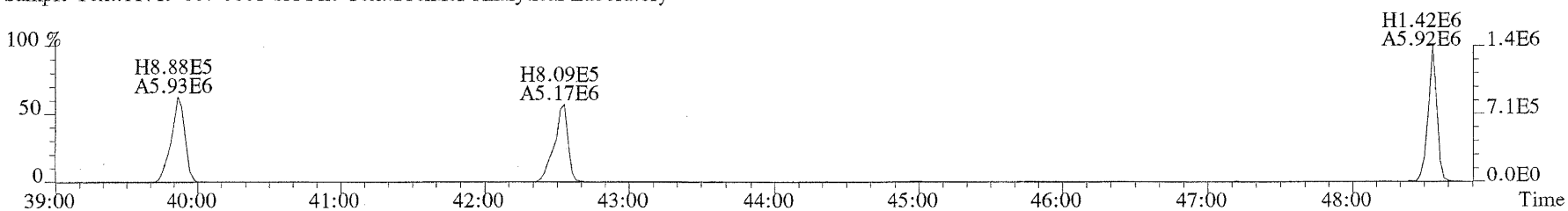
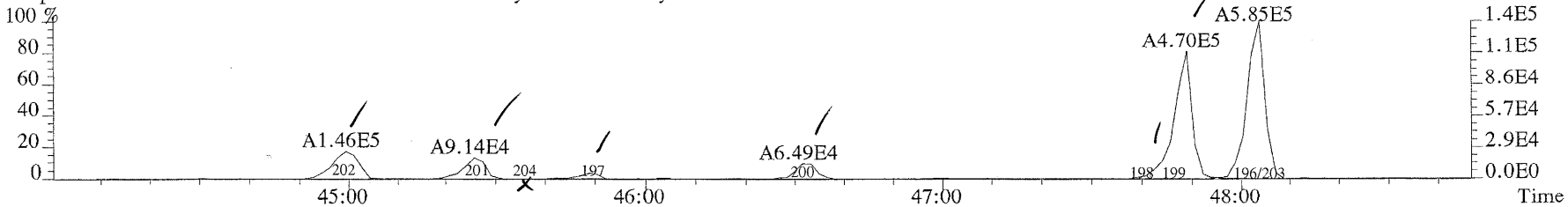
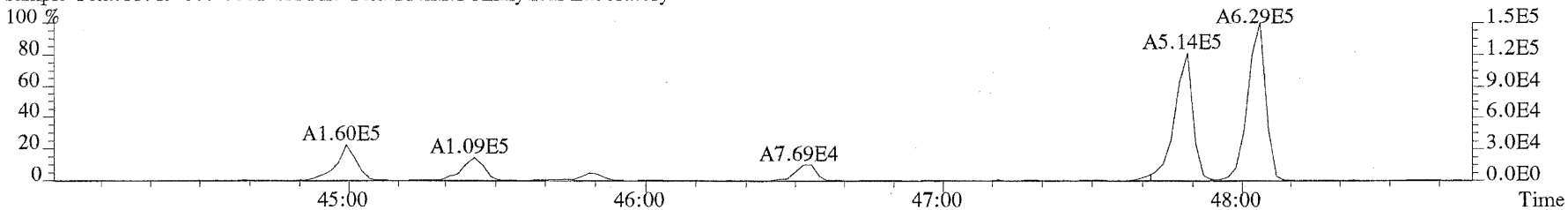
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



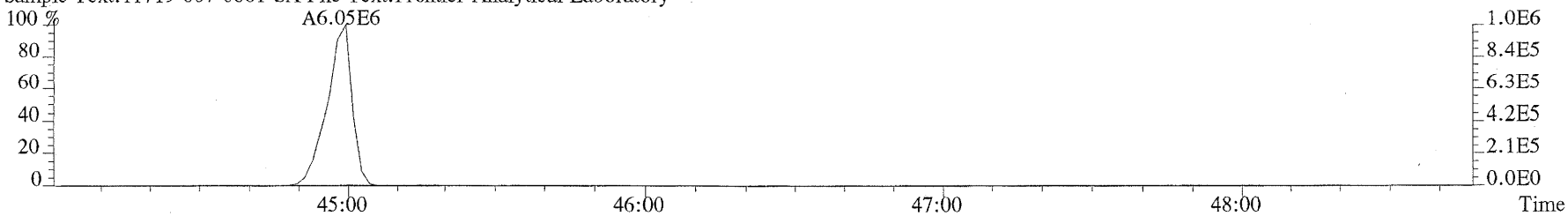
File:31JUL18Z #1-404 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



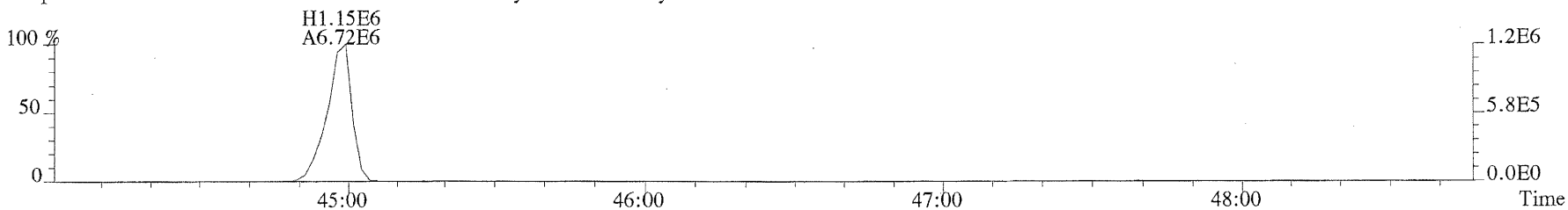
File:31JUL18Z #1-404 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



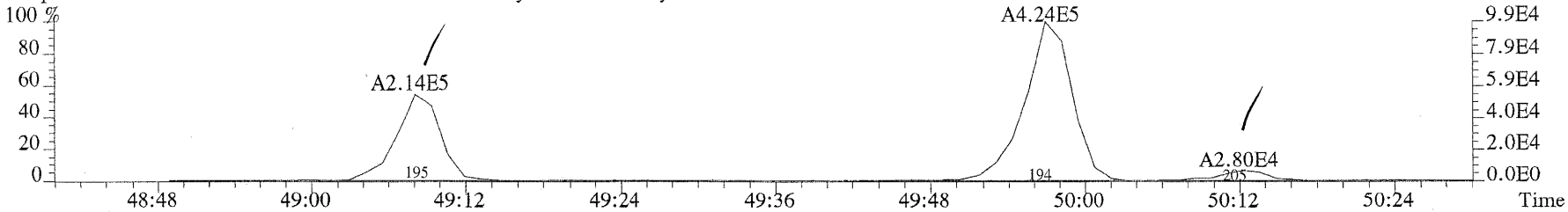
File:31JUL18Z #1-404 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



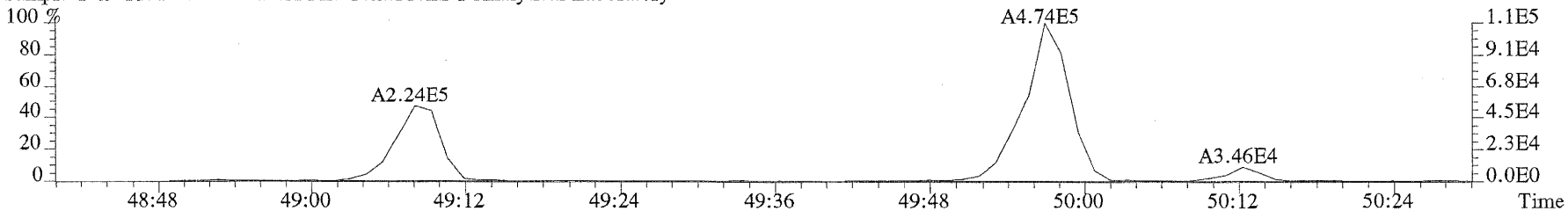
File:31JUL18Z #1-404 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



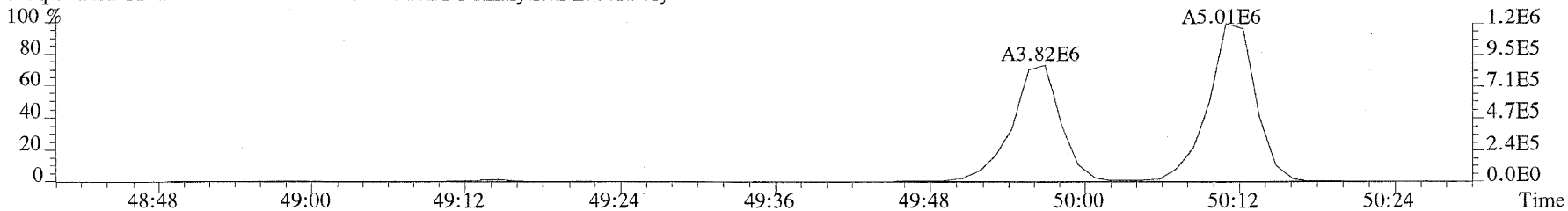
File:31JUL18Z #1-314 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



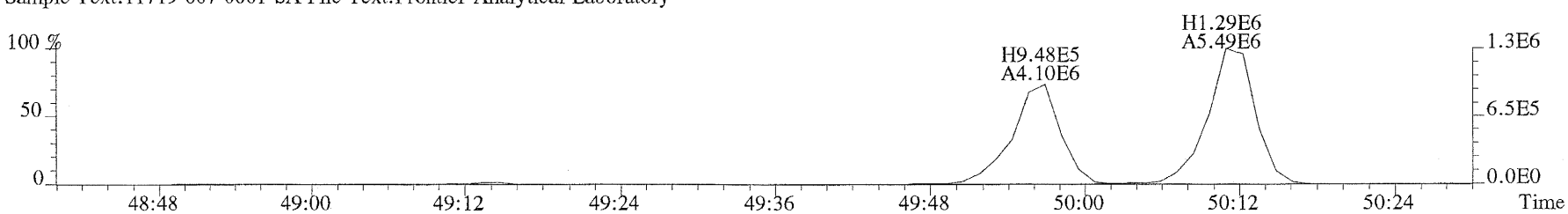
File:31JUL18Z #1-314 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



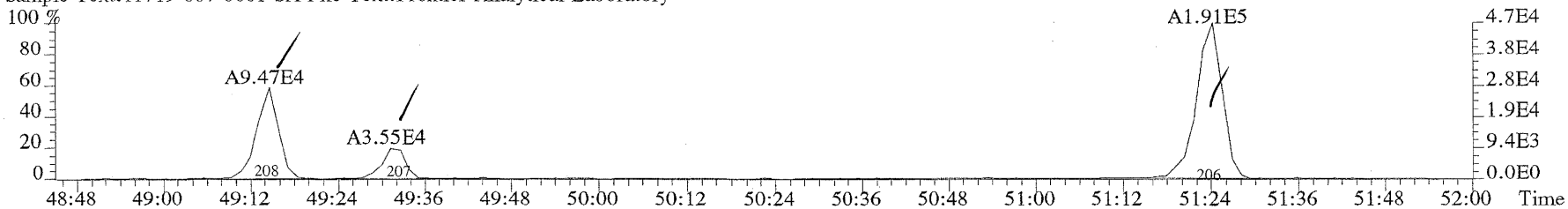
File:31JUL18Z #1-314 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



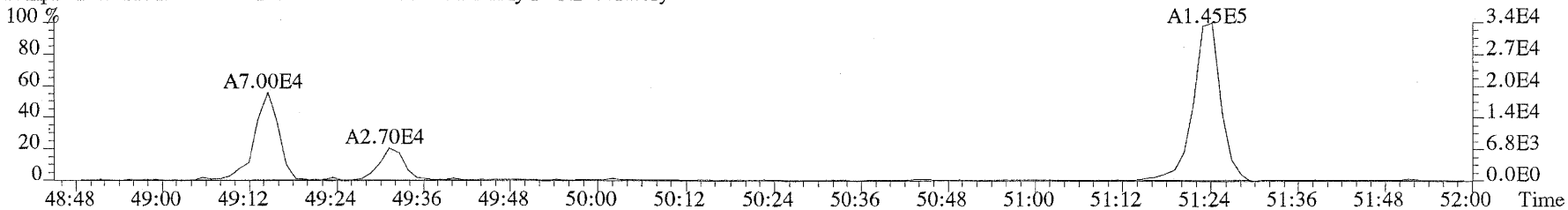
File:31JUL18Z #1-314 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



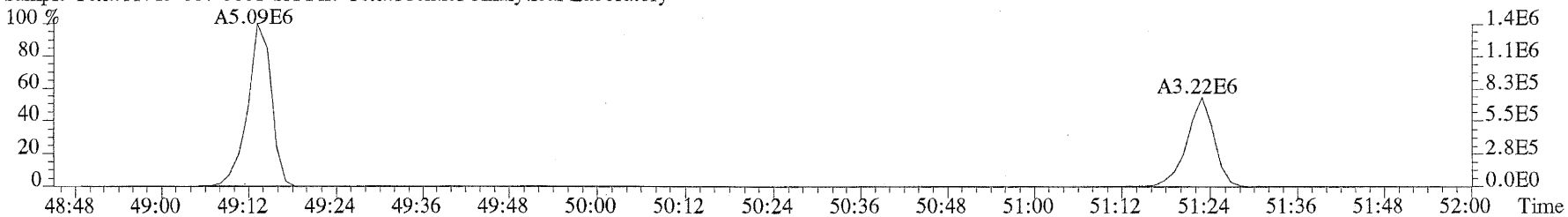
File:31JUL18Z #1-314 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



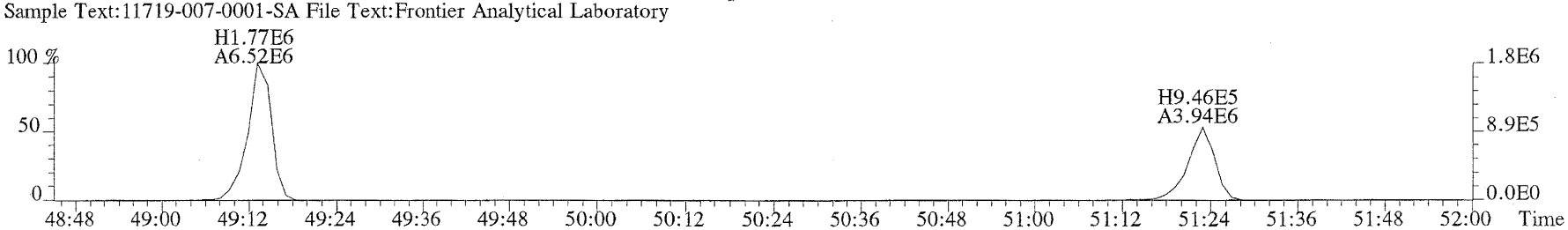
File:31JUL18Z #1-314 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



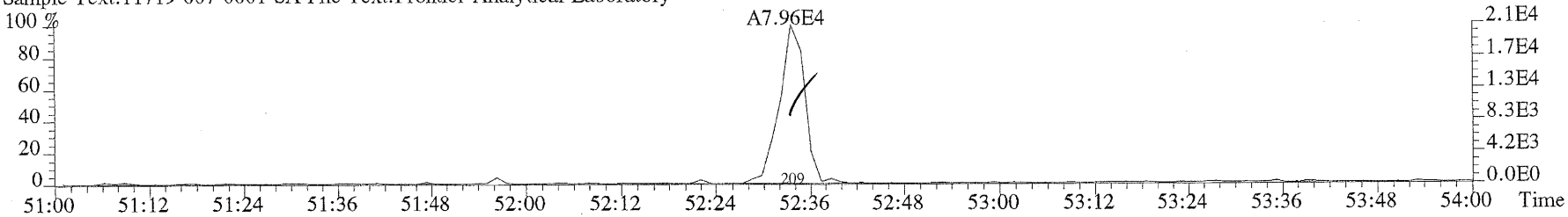
File:31JUL18Z #1-314 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



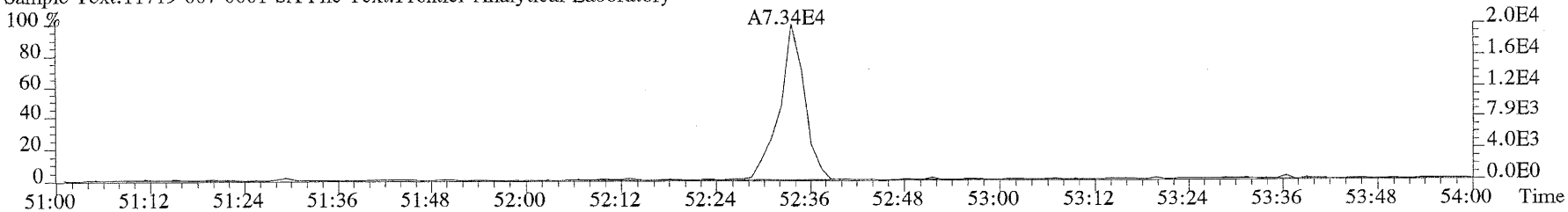
File:31JUL18Z #1-314 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



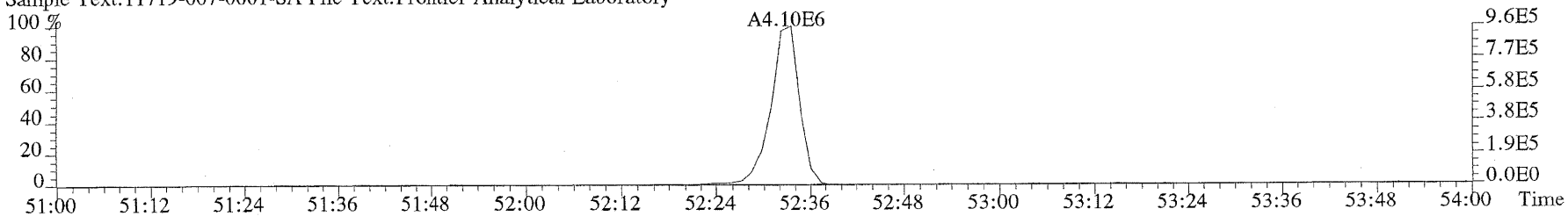
File:31JUL18Z #1-314 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



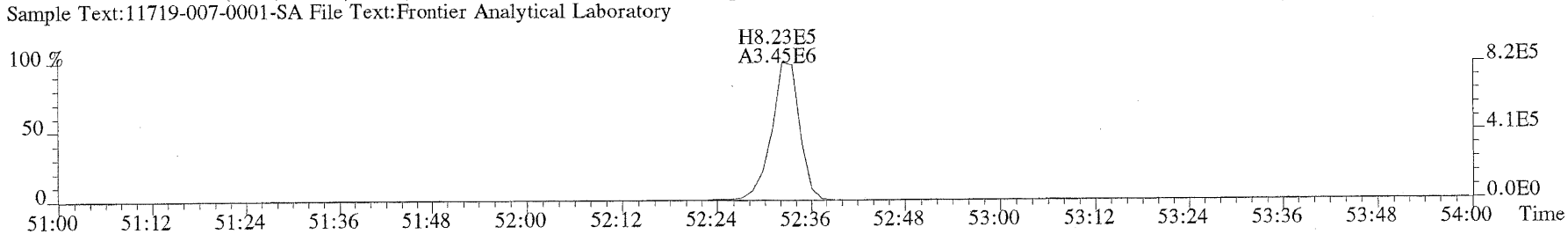
File:31JUL18Z #1-314 Acq:31-JUL-2018 14:06:41 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 14:06:41 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:11719-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 14:06:41 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:11719-007-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-008-0001-SA Filename: 31JUL18Z Sam:6 Acquired: 31-JUL-18 15:05:27 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SC-ENR-CB-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.010

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	1.17e+05	3.30 y	14:32	1.28	5.24		-	-	*			
13C-PCB-1	3.47e+07	3.27 y	14:31	0.83	1550					77.8	8.63e+06	2.61e+06
PCB-2	5.87e+04	2.68 y	16:45	1.15	2.62	J	-	-	*			
PCB-3	1.76e+05	2.97 y	16:59	1.27	6.46		-	-	*			
13C-PCB-3	4.30e+07	3.23 y	16:58	0.83	1910					95.7	9.82e+06	2.95e+06
PCB-4	4.89e+05	1.50 y	18:13	1.44	20.9		-	-	*			
PCB-10	4.76e+04	1.68 y	18:17	1.35	1.59	J	-	-	*			
13C-PCB-4	3.25e+07	1.63 y	18:11	0.68	1760					88.0	5.96e+06	3.74e+06
PCB-9	1.66e+05	1.51 y	19:54	1.44	5.18		-	-	*			
PCB-7	2.35e+05	1.57 y	19:57	1.55	6.79		-	-	*			
PCB-6	9.36e+05	1.53 y	20:32	1.44	29.2		-	-	*			
PCB-8	4.03e+06	1.47 y	20:54	1.45	125		-	-	*			
PCB-5	1.33e+05	1.45 y	21:01	1.46	4.08		-	-	*			
PCB-14	*	* n	NotFnd	1.36	*		571	1830	0.744			
PCB-11	5.05e+05	1.45 y	23:06	1.31	17.4		-	-	*			
PCB-13	3.16e+05	1.36 y	23:26	1.38	10.3		-	-	*			
PCB-12	3.36e+05	1.50 y	23:27	1.44	10.5		-	-	*			
PCB-15	3.70e+06	1.38 y	23:47	1.38	95.1		-	-	*			
13C-PCB-15	5.63e+07	1.62 y	23:45	1.01	2050					103	8.51e+06	5.14e+06
PCB-19	1.69e+05	1.17 y	22:05	1.31	13.5		-	-	*			
PCB-30	*	* n	NotFnd	1.68	*		423	440	0.512			
PCB-18	2.18e+06	1.10 y	23:40	1.25	182		-	-	*			
PCB-17	1.08e+06	1.08 y	23:49	1.37	82.3		-	-	*			
PCB-27	1.68e+05	1.19 y	24:20	1.68	10.4		-	-	*			
PCB-24	1.77e+05	1.17 y	24:21	1.74	10.6		-	-	*			
PCB-16	6.49e+05	1.11 y	24:48	1.49	45.5		-	-	*			
PCB-32	1.19e+06	1.16 y	24:52	1.50	82.1		-	-	*			
13C-PCB-19	1.91e+07	1.12 y	22:04	0.35	2010					101	2.65e+06	2.35e+06
13C-PCB-9	5.40e+07	1.63 y	19:53	-	14.5							
PCB-34	7.80e+04	0.97 y	25:38	1.40	2.93	J	-	-	*			
PCB-23	*	* n	NotFnd	1.50	*		581	505	0.591			
PCB-29	6.73e+04	1.17 y	25:57	1.31	2.69	J	-	-	*			
PCB-26	1.80e+06	1.11 y	26:09	1.25	75.8		-	-	*			
PCB-25	1.22e+06	1.13 y	26:18	1.60	40.1		-	-	*			
PCB-31	8.23e+06	1.12 y	26:38	1.21	357		-	-	*			
PCB-28	1.05e+07	1.11 y	26:45	1.69	327		-	-	*			
PCB-20	5.23e+06	1.10 y	27:20	1.36	202		-	-	*		Co-elute PCB 21/33	
PCB-21	5.23e+06	1.10 y	27:20	1.36	202		-	-	*		Co-elute PCB 20/33	
PCB-33	5.23e+06	1.10 y	27:20	1.36	202		-	-	*		Co-elute PCB 20/21	
PCB-22	3.19e+06	1.12 y	27:44	1.41	119		-	-	*			
PCB-36	*	* n	NotFnd	1.20	*		581	505	0.741			
PCB-39	*	* n	NotFnd	1.05	*		581	505	0.843			
PCB-38	*	* n	NotFnd	1.39	*		581	505	0.638			
PCB-35	2.48e+05	1.11 y	30:02	1.12	11.6		-	-	*			
PCB-37	3.12e+06	1.07 y	30:31	1.40	117		-	-	*			
13C-PCB-37	3.80e+07	1.04 y	30:30	1.54	1820					91.3	3.19e+06	2.93e+06

PCB-54	*	*	n	NotFnd	1.13	*		420	400	0.563			
PCB-50	*	*	n	NotFnd	0.72	*		420	400	0.886			
PCB-53	8.41e+05	0.80	y	27:21	0.76	79.8		-	-	*			
PCB-51	2.38e+05	0.74	y	27:40	0.76	22.7		-	-	*			
PCB-45	5.07e+05	0.77	y	28:05	0.63	57.9		-	-	*			
PCB-46	2.21e+05	0.79	y	28:32	0.65	24.8		-	-	*			
PCB-52	1.99e+07	0.77	y	29:00	0.92	1570		-	-	*	Co-elute PCB 69		
PCB-69	1.99e+07	0.77	y	29:00	0.92	1570		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	0.87	*		420	400	0.731			
PCB-43	6.52e+06	0.76	y	29:18	0.72	656		-	-	*	Co-elute PCB 49		
PCB-49	6.52e+06	0.76	y	29:18	0.72	656		-	-	*	Co-elute PCB 43		
PCB-47	1.73e+06	0.66	y	29:30	0.84	150		-	-	*			
PCB-48	1.39e+06	0.87	y	29:36	0.96	105		-	-	*	Co-elute PCB 75		
PCB-75	1.39e+06	0.87	y	29:36	0.96	105		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.01	*		420	400	0.629			
PCB-62	*	*	n	NotFnd	0.97	*		420	400	0.658			
PCB-44	7.87e+06	0.74	y	30:17	0.66	859		-	-	*			
PCB-42	2.04e+06	0.74	y	30:32	0.85	175		-	-	*	Co-elute PCB 59		
PCB-59	2.04e+06	0.74	y	30:32	0.85	175		-	-	*	Co-elute PCB 42		
PCB-72	5.37e+06	0.75	y	31:10	0.92	425		-	-	*	Co-elute PCB 41/71/64		
PCB-41	5.37e+06	0.75	y	31:10	0.92	425		-	-	*	Co-elute PCB 72/71/64		
PCB-71	5.37e+06	0.75	y	31:10	0.92	425		-	-	*	Co-elute PCB 72/41/64		
PCB-64	5.37e+06	0.75	y	31:10	0.92	425		-	-	*	Co-elute PCB 72/41/71		
PCB-68	2.56e+04	0.70	y	31:28	1.03	1.80	J	-	-	*			
PCB-40	5.19e+05	0.81	y	31:38	0.59	63.8		-	-	*			
PCB-57	5.14e+04	0.81	y	31:57	0.97	3.85	J	-	-	*			
PCB-67	2.68e+05	0.80	y	32:11	0.98	19.8		-	-	*			
PCB-58	2.31e+04	0.80	y	32:17	0.90	1.87	J	-	-	*			
PCB-63	3.91e+05	0.80	y	32:26	1.02	27.8		-	-	*			
PCB-74	5.73e+06	0.79	y	32:41	1.13	368		-	-	*			
PCB-61	1.80e+07	0.77	y	32:52	1.07	1220		-	-	*	Co-elute PCB 70		
PCB-70	1.80e+07	0.77	y	32:52	1.07	1220		-	-	*	Co-elute PCB 61		
PCB-76	1.13e+07	0.78	y	33:05	1.00	822		-	-	*	Co-elute PCB 66		
PCB-66	1.13e+07	0.78	y	33:05	1.00	822		-	-	*	Co-elute PCB 76		
PCB-80	6.39e+04	0.86	y	33:18	1.10	4.21		-	-	*			
PCB-55	3.75e+05	0.79	y	33:30	1.07	25.5		-	-	*			
13C-PCB-54	2.75e+07	0.80	y	25:38	1.28	1580					79.3	2.85e+06	3.57e+06
PCB-104	*	*	n	NotFnd	1.27	*		352	384	0.794			
PCB-96	1.38e+05	1.57	y	31:26	1.13	12.4		-	-	*			
PCB-103	1.93e+05	1.72	y	31:56	0.97	20.3		-	-	*			
PCB-100	8.71e+04	1.46	y	32:13	0.98	9.06		-	-	*			
PCB-94	7.85e+04	1.78	y	32:37	0.87	9.18		-	-	*			
PCB-98	*	*	n	NotFnd	1.02	*		352	384	0.992	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.02	*		352	384	0.992	Co-elute PCB 98		
PCB-95	1.84e+07	1.61	y	33:08	0.88	2130		-	-	*			
PCB-93	*	*	n	NotFnd	0.81	*		352	384	1.24			
PCB-88	2.55e+06	1.63	y	33:30	0.91	286		-	-	*	Co-elute PCB 91		
PCB-91	2.55e+06	1.63	y	33:30	0.91	286		-	-	*	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.12	*		352	384	0.902			
13C-PCB-104	1.96e+07	1.62	y	30:06	0.76	1900					95.3	2.28e+06	1.38e+06
13C-PCB-28	4.78e+07	1.03	y	26:43	1.88	1880					94.0	5.61e+06	5.17e+06
13C-PCB-52	2.71e+07	0.78	y	28:59	-	20.0							

PCB-56	8.68e+06	0.82	y	34:02	1.26	361		-	-	*		Co-elute PCB 60	
PCB-60	8.68e+06	0.82	y	34:02	1.26	361		-	-	*		Co-elute PCB 56	
PCB-79	6.66e+05	0.83	y	35:02	1.19	29.5		-	-	*			
PCB-78	*	*	n	NotFnd	1.13	*		473	551	0.614			
PCB-81	1.25e+06	0.80	y	36:13	1.25	53.3		-	-	*			
13C-PCB-81	3.76e+07	0.81	y	36:12	1.79	1880					94.4	3.27e+06	4.11e+06
PCB-77	2.38e+06	0.83	y	36:47	1.17	106		-	-	*			
13C-PCB-77	3.84e+07	0.82	y	36:46	1.72	2000					100	3.30e+06	4.08e+06
PCB-155	*	*	n	NotFnd	1.21	*		332	452	0.880			
PCB-150	7.42e+04	1.11	y	35:26	1.07	8.07		-	-	*			
PCB-152	3.54e+04	1.17	y	35:54	1.04	3.98	J	-	-	*			
PCB-145	*	*	n	NotFnd	1.09	*		332	452	0.984			
PCB-136	5.81e+06	1.30	y	36:37	0.97	696		-	-	*			
PCB-148	*	*	n	NotFnd	0.86	*		332	452	1.24			
PCB-154	3.63e+05	1.40	y	37:11	1.02	41.7		-	-	*			
13C-PCB-155	1.71e+07	1.29	y	34:14	0.83	1840					92.2	2.02e+06	1.63e+06
13C-PCB-111	2.64e+07	1.61	y	36:21	1.23	1920					96.4	3.47e+06	2.15e+06
13C-PCB-101	2.23e+07	1.60	y	34:42	-	17.0							
PCB-84	1.17e+07	1.63	y	34:22	0.58	1120		-	-	*		Co-elute PCB 92	
PCB-92	1.17e+07	1.63	y	34:22	0.58	1120		-	-	*		Co-elute PCB 84	
PCB-89	2.38e+05	1.42	y	34:32	0.56	23.6		-	-	*			
PCB-90	3.75e+07	1.59	y	34:43	0.66	3130		-	-	*		Co-elute PCB 101	
PCB-101	3.75e+07	1.59	y	34:43	0.66	3130		-	-	*		Co-elute PCB 90	
PCB-113	*	*	n	NotFnd	0.69	*		557	274	0.811			
PCB-99	1.32e+07	1.57	y	35:02	0.75	973		-	-	*			
PCB-119	7.23e+05	1.70	y	35:28	0.79	50.6		-	-	*			
PCB-83	1.43e+06	1.61	y	35:37	0.67	117		-	-	*		Co-elute PCB 112	
PCB-112	1.43e+06	1.61	y	35:37	0.67	117		-	-	*		Co-elute PCB 83	
PCB-109	*	*	n	NotFnd	0.80	*		557	274	0.698			
PCB-97	8.75e+06	1.55	y	35:57	0.72	665		-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*		557	274	0.841			
PCB-125	1.46e+07	1.58	y	36:13	0.73	1100		-	-	*		Co-elute PCB 87/117	
PCB-87	1.46e+07	1.58	y	36:13	0.73	1100		-	-	*		Co-elute PCB 125/117	
PCB-117	1.46e+07	1.58	y	36:13	0.73	1100		-	-	*		Co-elute PCB 125/87	
PCB-111	8.46e+05	1.52	y	36:22	0.91	51.3		-	-	*		Co-elute PCB 115	
PCB-115	8.46e+05	1.52	y	36:22	0.91	51.3		-	-	*		Co-elute PCB 111	
PCB-85	4.74e+06	1.61	y	36:27	0.69	375		-	-	*		Co-elute PCB 116	
PCB-116	4.74e+06	1.61	y	36:27	0.69	375		-	-	*		Co-elute PCB 85	
PCB-120	1.51e+05	1.78	y	36:38	0.86	9.65		-	-	*			
PCB-110	4.39e+07	1.61	y	36:50	0.85	2840		-	-	*			
PCB-82	2.81e+06	1.53	y	37:25	0.51	303		-	-	*			
PCB-124	2.60e+06	1.74	y	38:06	1.24	115		-	-	*			
PCB-108	3.46e+06	1.52	y	38:14	1.24	154		-	-	*		Co-elute PCB 107	
PCB-107	3.46e+06	1.52	y	38:14	1.24	154		-	-	*		Co-elute PCB 108	
PCB-123	8.44e+05	1.63	y	38:26	1.50	32.2		-	-	*			
13C-PCB-123	3.49e+07	1.62	y	38:23	1.55	1780					89.2	4.62e+06	2.89e+06
PCB-118	5.06e+07	1.64	y	38:34	1.11	2420		-	-	*		Co-elute PCB 106	
PCB-106	5.06e+07	1.64	y	38:34	1.11	2420		-	-	*		Co-elute PCB 118	
13C-PCB-118	3.74e+07	1.63	y	38:32	1.75	1700					85.1	4.69e+06	2.87e+06
PCB-114	1.37e+06	1.46	y	39:12	1.30	57.0		-	-	*			
13C-PCB-114	3.67e+07	1.65	y	39:10	1.58	1840					92.2	4.79e+06	2.87e+06
PCB-122	6.98e+05	1.62	y	39:19	1.17	32.8		-	-	*			
PCB-105	1.96e+07	1.61	y	40:00	1.24	871		-	-	*			
13C-PCB-105	3.62e+07	1.63	y	39:58	1.49	1930					96.7	4.41e+06	2.73e+06

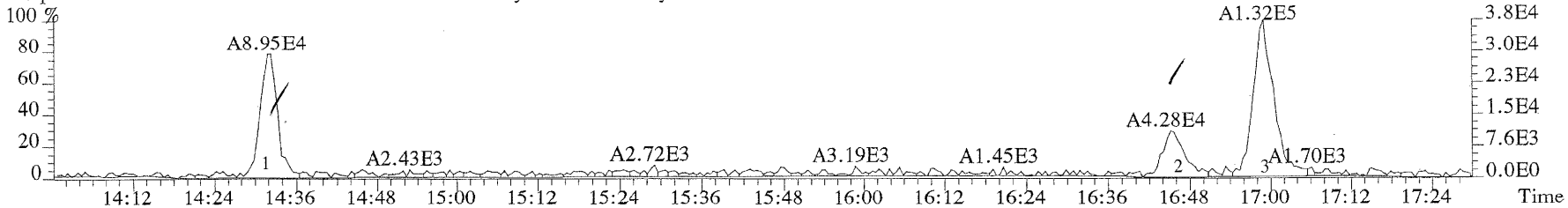
PCB-127	*	*	n	NotFnd	1.09	*	659	535	0.733				
PCB-126	3.42e+05	1.49	y	42:06	1.28	15.0	-	-	*				
13C-PCB-126	3.55e+07	1.59	y	42:06	1.40	2010				101	4.20e+06	2.69e+06	
PCB-151	1.22e+07	1.29	y	37:48	0.78	1070	-	-	*				
PCB-135	5.65e+06	1.25	y	38:01	0.91	422	-	-	*				
PCB-144	2.80e+06	1.23	y	38:08	0.91	210	-	-	*				
PCB-147	6.58e+05	1.26	y	38:14	0.99	45.4	-	-	*				
PCB-139	4.47e+07	1.26	y	38:29	0.98	3120	-	-	*		Co-elute PCB 149		
PCB-149	4.47e+07	1.26	y	38:29	0.98	3120	-	-	*		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.99	*	346	293	0.526				
PCB-143	2.37e+06	1.24	y	39:05	0.91	176	-	-	*		Co-elute PCB 134		
PCB-134	2.37e+06	1.24	y	39:05	0.91	176	-	-	*		Co-elute PCB 143		
PCB-131	1.18e+06	1.27	y	39:22	0.91	87.5	-	-	*		Co-elute PCB 133		
PCB-133	1.18e+06	1.27	y	39:22	0.91	87.5	-	-	*		Co-elute PCB 131		
PCB-142	*	*	n	NotFnd	0.83	*	346	293	0.623				
PCB-165	7.23e+06	1.27	y	39:45	1.09	453	-	-	*		Co-elute PCB 146		
PCB-146	7.23e+06	1.27	y	39:45	1.09	453	-	-	*		Co-elute PCB 165		
PCB-161	1.53e+07	1.24	y	40:00	1.00	1040	-	-	*		Co-elute PCB 132		
PCB-132	1.53e+07	1.24	y	40:00	1.00	1040	-	-	*		Co-elute PCB 161		
PCB-153	5.39e+07	1.27	y	40:08	1.09	3360	-	-	*				
PCB-168	*	*	n	NotFnd	1.19	*	346	293	0.438				
PCB-141	1.11e+07	1.26	y	40:49	0.92	824	-	-	*				
PCB-137	2.11e+06	1.26	y	41:10	0.82	176	-	-	*				
PCB-130	2.49e+06	1.32	y	41:15	0.89	191	-	-	*				
PCB-138	5.86e+07	1.26	y	41:37	1.20	3330	-	-	*		Co-elute PCB 163/164		
PCB-163	5.86e+07	1.26	y	41:37	1.20	3330	-	-	*		Co-elute PCB 138/164		
PCB-164	5.86e+07	1.26	y	41:37	1.20	3330	-	-	*		Co-elute PCB 138/163		
PCB-158	7.07e+06	1.25	y	41:50	1.21	396	-	-	*		Co-elute PCB 160		
PCB-160	7.07e+06	1.25	y	41:50	1.21	396	-	-	*		Co-elute PCB 158		
PCB-129	1.83e+06	1.28	y	42:05	0.78	159	-	-	*				
PCB-166	1.94e+05	1.17	y	42:33	1.14	11.6	-	-	*				
PCB-159	7.71e+05	1.19	y	42:53	1.20	43.8	-	-	*				
PCB-128	7.54e+06	1.27	y	43:06	1.02	505	-	-	*		Co-elute PCB 162		
PCB-162	7.54e+06	1.27	y	43:06	1.02	505	-	-	*		Co-elute PCB 128		
PCB-167	2.38e+06	1.26	y	43:29	1.08	154	-	-	*				
13C-PCB-167	2.84e+07	1.28	y	43:27	1.16	1940				97.0	3.06e+06	2.52e+06	
PCB-156	6.05e+06	1.27	y	44:43	1.13	366	-	-	*				
13C-PCB-156	2.93e+07	1.30	y	44:41	1.10	2110				106	3.57e+06	2.71e+06	
PCB-157	1.12e+06	1.23	y	44:58	1.21	63.4	-	-	*				
13C-PCB-157	2.92e+07	1.28	y	44:56	1.13	2060				103	3.24e+06	2.51e+06	
PCB-169	*	*	n	NotFnd	1.13	*	346	293	0.400				
13C-PCB-169	3.04e+07	1.30	y	46:50	1.06	2260				113	4.01e+06	3.05e+06	

FAL ID: 11719-008-0001-SA Filename: 31JUL18Z Sam:6 Acquired: 31-JUL-18 15:05:27 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SC-ENR-CB-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.010

PCB-188	*	*	n	NotFnd	1.18	*	324	321	0.581				
13C-PCB-188	2.04e+07	1.11	y	39:43	0.83	1940				97.2	2.46e+06	2.24e+06	
PCB-184	*	*	n	NotFnd	1.27	*	324	321	0.461				
PCB-179	7.50e+06	1.05	y	40:54	1.16	587	-	-	*				
PCB-176	2.30e+06	1.07	y	41:20	1.13	185	-	-	*				
PCB-186	*	*	n	NotFnd	1.20	*	324	321	0.491				
PCB-178	2.71e+06	1.07	y	42:23	0.82	302	-	-	*				
PCB-175	5.06e+05	1.15	y	42:43	0.85	54.2	-	-	*				
PCB-187	1.66e+07	1.05	y	42:51	0.97	1560	-	-	*		Co-elute PCB 182		
PCB-182	1.66e+07	1.05	y	42:51	0.97	1560	-	-	*		Co-elute PCB 187		
PCB-183	8.28e+06	1.06	y	43:11	0.92	817	-	-	*				
PCB-185	1.65e+06	1.08	y	43:48	0.87	172	-	-	*				
PCB-174	1.30e+07	1.06	y	44:08	0.88	1330	-	-	*				
PCB-181	*	*	n	NotFnd	0.86	*	324	321	0.680				
PCB-177	7.16e+06	1.08	y	44:23	0.78	837	-	-	*				
PCB-171	3.60e+06	1.11	y	44:41	0.84	391	-	-	*				
PCB-173	2.40e+05	1.17	y	45:04	0.75	29.3	-	-	*				
PCB-172	2.18e+06	1.12	y	45:29	0.79	252	-	-	*				
PCB-192	*	*	n	NotFnd	1.11	*	324	321	0.529				
PCB-180	2.99e+07	1.06	y	45:50	1.07	2540	-	-	*				
PCB-193	2.05e+06	1.12	y	46:00	1.12	166	-	-	*				
PCB-191	7.46e+05	1.02	y	46:13	1.06	64.1	-	-	*				
PCB-170	1.20e+07	1.05	y	47:08	0.78	1390	-	-	*				
PCB-190	3.48e+06	1.09	y	47:16	1.05	302	-	-	*				
PCB-189	6.35e+05	1.01	y	48:28	1.20	45.1	-	-	*				
13C-PCB-189	2.34e+07	1.08	y	48:28	0.72	2560				128	3.34e+06	3.07e+06	
PCB-202	9.55e+05	0.93	y	44:51	1.07	139	-	-	*				
PCB-201	7.96e+05	0.99	y	45:17	0.97	127	-	-	*				
PCB-204	*	*	n	NotFnd	1.00	*	296	297	1.05				
PCB-197	2.40e+05	0.95	y	45:42	1.07	34.8	-	-	*				
PCB-200	7.62e+05	0.96	y	46:27	1.00	118	-	-	*				
PCB-198	2.85e+05	0.82	y	47:37	0.77	57.3	-	-	*				
PCB-199	4.61e+06	0.96	y	47:42	0.74	973	-	-	*				
PCB-203	5.59e+06	0.94	y	47:59	0.85	1020	-	-	*		Co-elute PCB 196		
PCB-196	5.59e+06	0.94	y	47:59	0.85	1020	-	-	*		Co-elute PCB 203		
13C-PCB-202	1.29e+07	0.93	y	44:49	0.48	2130				106	1.35e+06	1.47e+06	
13C-PCB-178	1.67e+07	1.09	y	42:21	0.61	2170				109	1.99e+06	1.79e+06	
13C-PCB-138	2.52e+07	1.30	y	41:35	-	18.1							
PCB-195	3.15e+06	0.91	y	49:04	0.90	313	-	-	*				
PCB-194	5.60e+06	0.92	y	49:52	0.92	546	-	-	*				
PCB-205	5.05e+05	0.91	y	50:07	1.19	38.1	-	-	*				
13C-PCB-205	2.23e+07	0.90	y	50:07	1.25	2130				107	2.94e+06	3.22e+06	
PCB-208	4.63e+05	1.32	y	49:11	0.99	42.0	-	-	*				
13C-PCB-208	2.22e+07	0.79	y	49:09	1.27	2090				105	3.28e+06	4.15e+06	
PCB-207	3.06e+05	1.37	y	49:27	1.01	29.8	-	-	*				
PCB-206	1.84e+06	1.27	y	51:19	0.96	206	-	-	*				
13C-PCB-206	1.85e+07	0.80	y	51:19	0.93	2370				119	2.50e+06	3.10e+06	
PCB-209	4.78e+05	1.17	y	52:30	1.13	41.5	-	-	*				
13C-PCB-209	2.04e+07	1.19	y	52:28	1.04	2350				118	3.24e+06	2.70e+06	
13C-PCB-194	1.67e+07	0.89	y	49:52	-	12.4							

Analyst: _____ Date: 8/30/18

File:31JUL18Z #1-783 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-783 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
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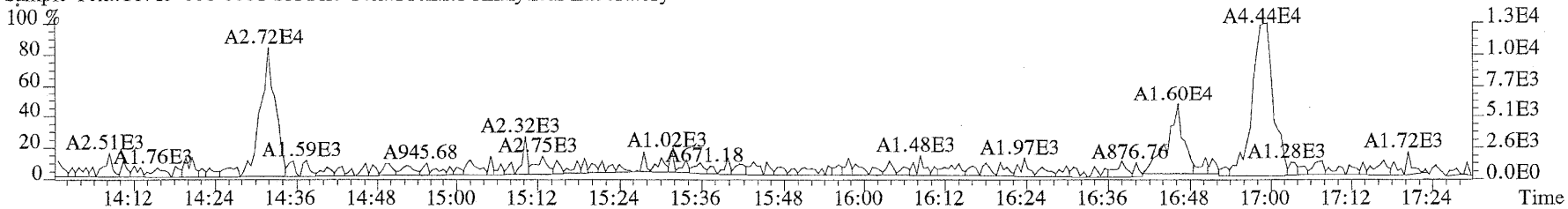
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-783 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
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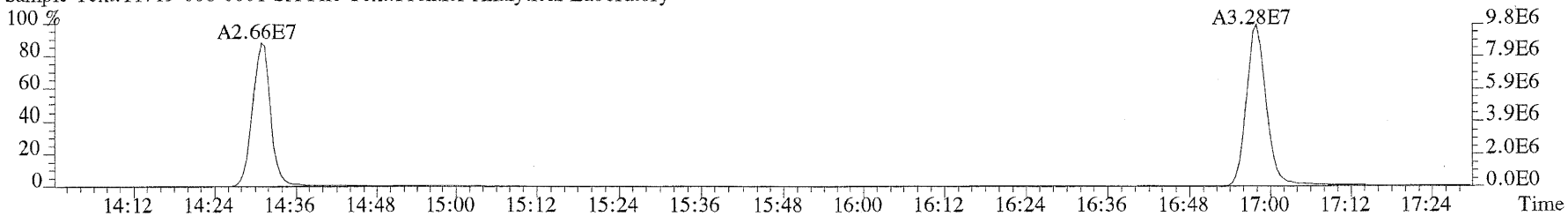
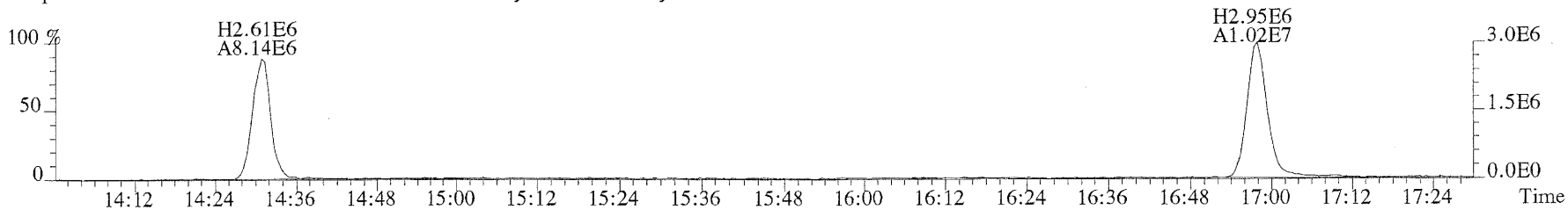
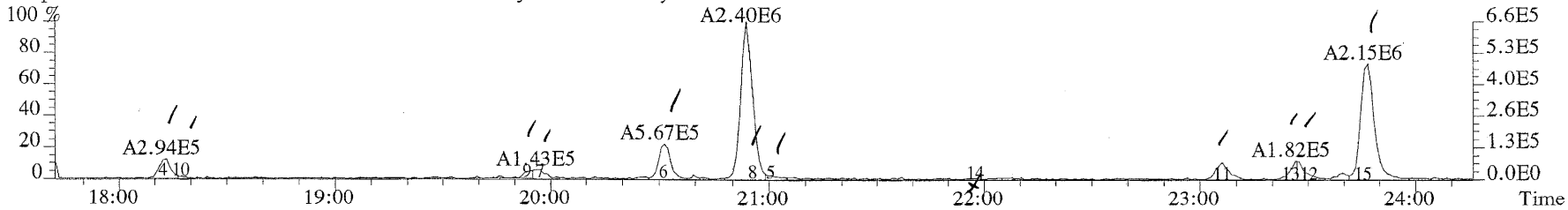
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



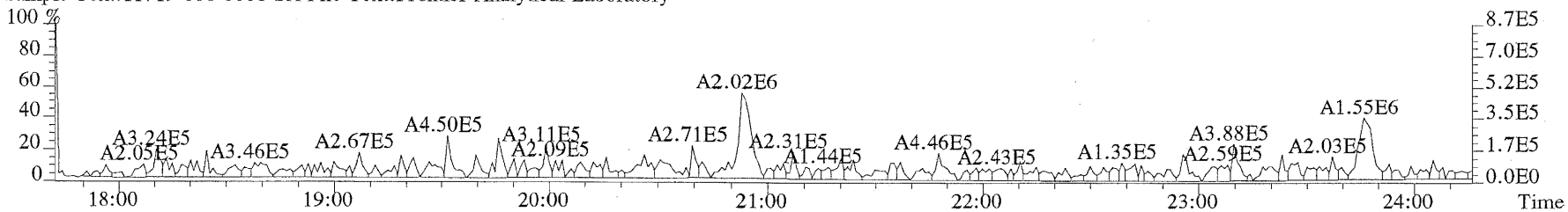
File:31JUL18Z #1-783 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



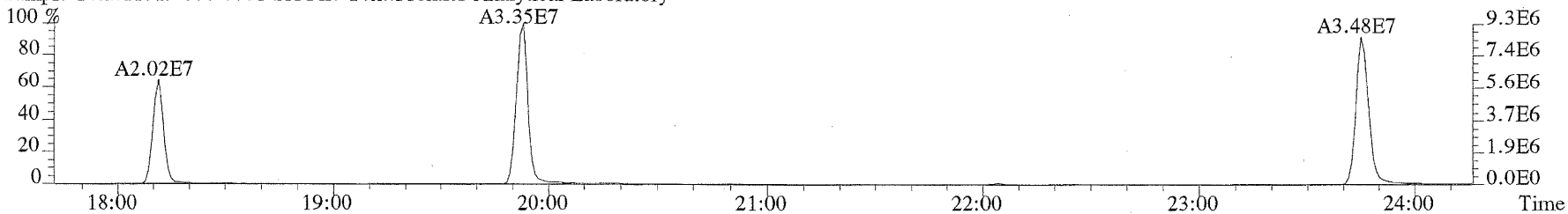
File:31JUL18Z #1-520 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



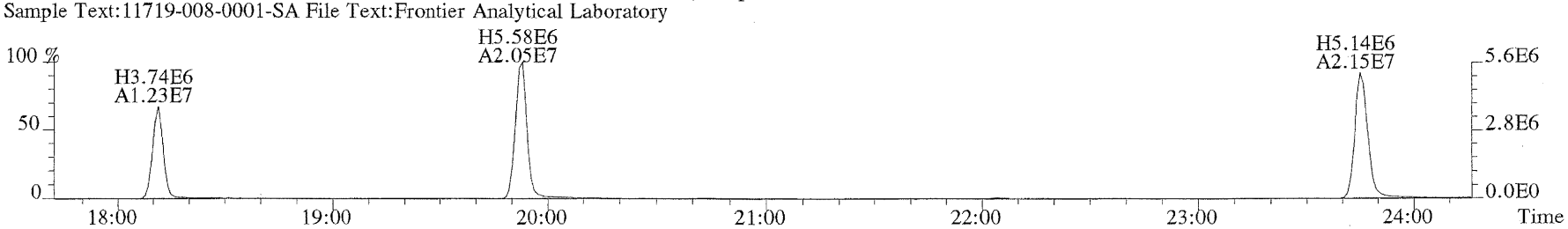
File:31JUL18Z #1-520 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



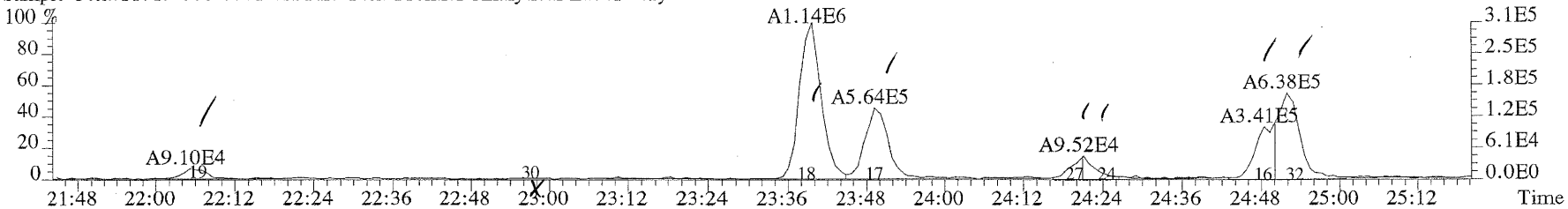
File:31JUL18Z #1-520 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



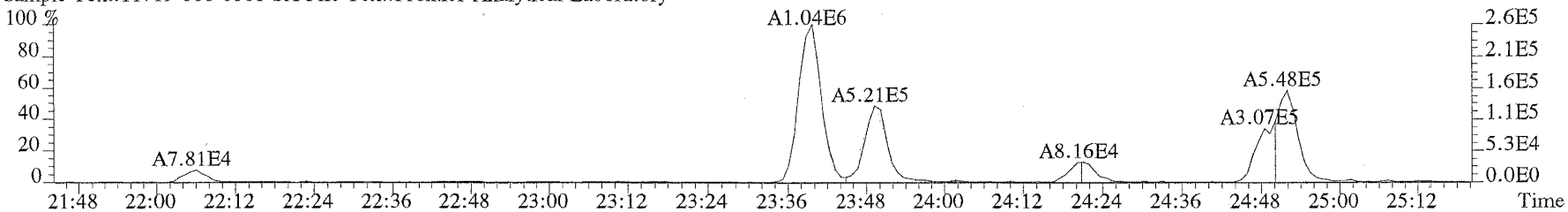
File:31JUL18Z #1-520 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



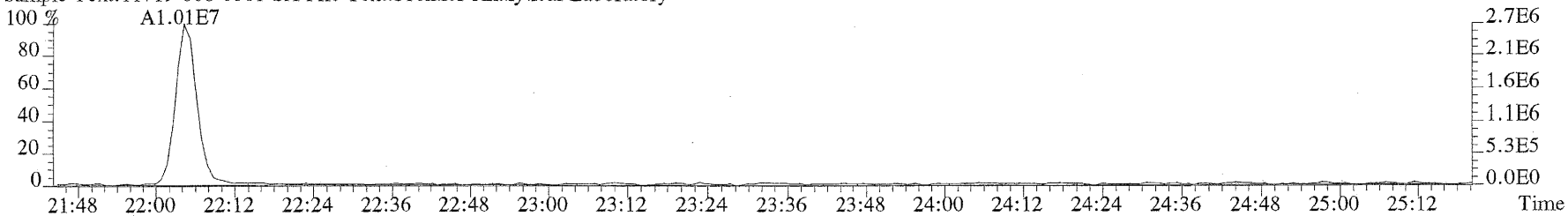
File:31JUL18Z #1-520 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



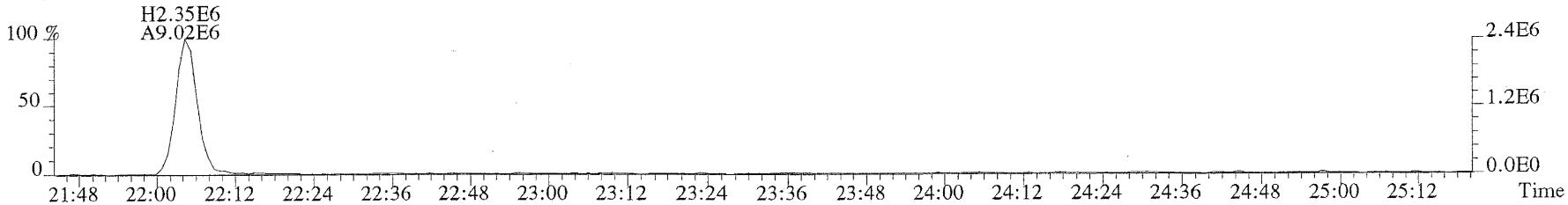
File:31JUL18Z #1-520 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



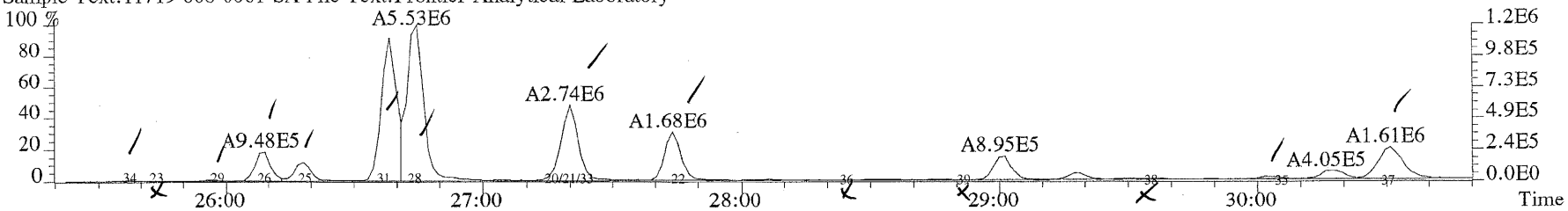
File:31JUL18Z #1-520 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



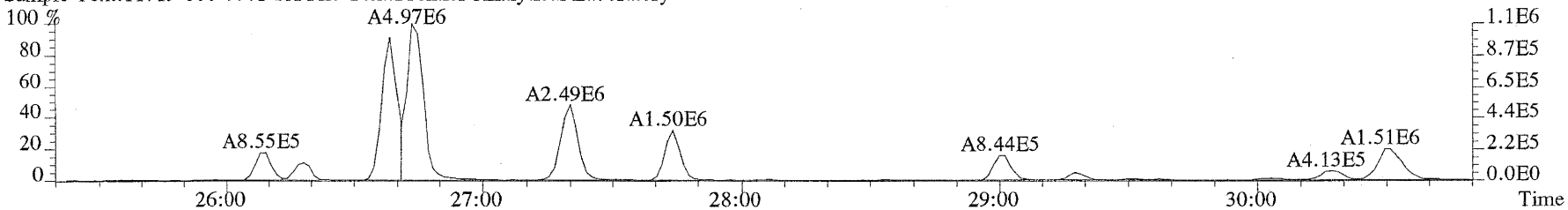
File:31JUL18Z #1-520 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



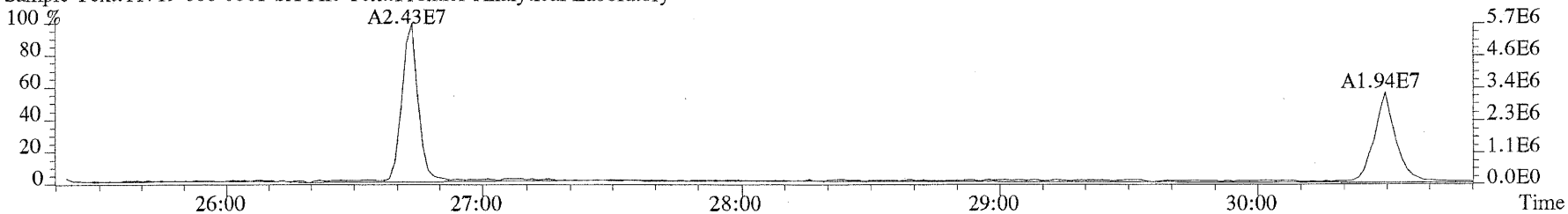
File:31JUL18Z #1-401 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 15:05:27 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:11719-008-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 15:05:27 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:11719-008-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
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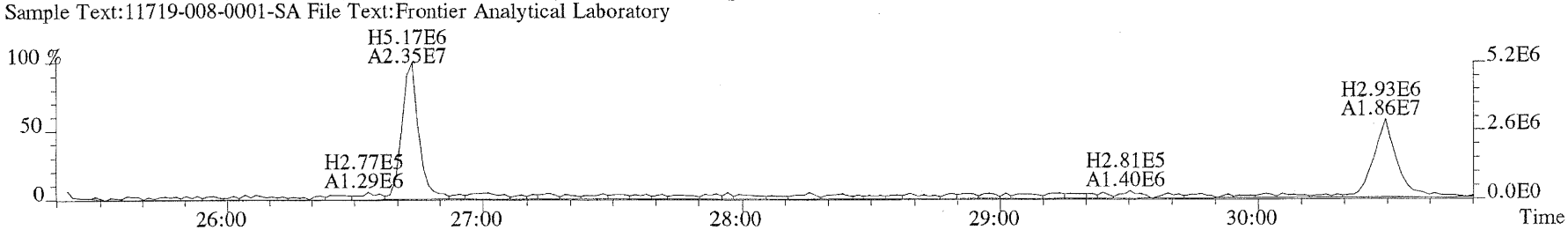
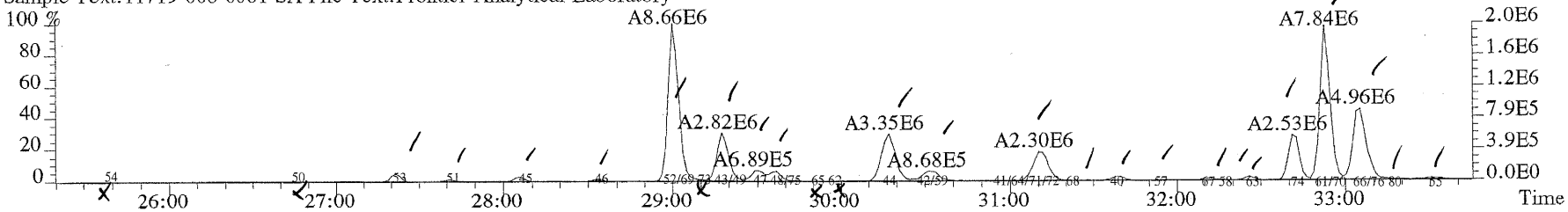
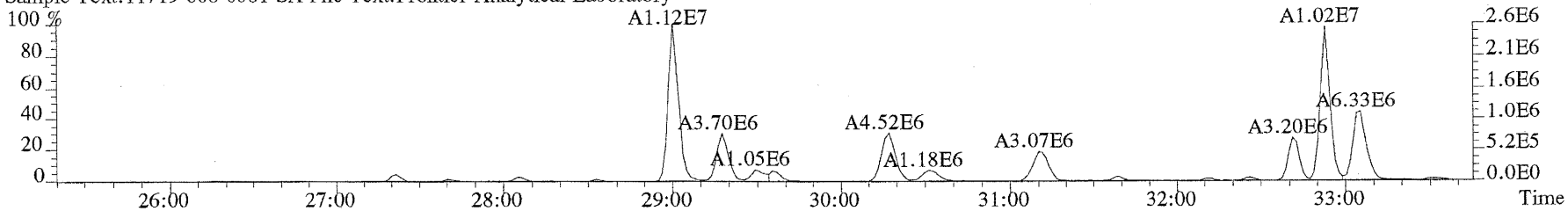
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



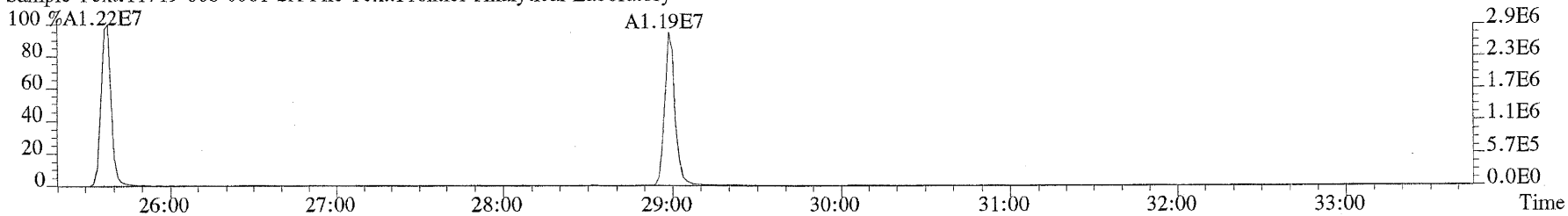
File:31JUL18Z #1-401 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



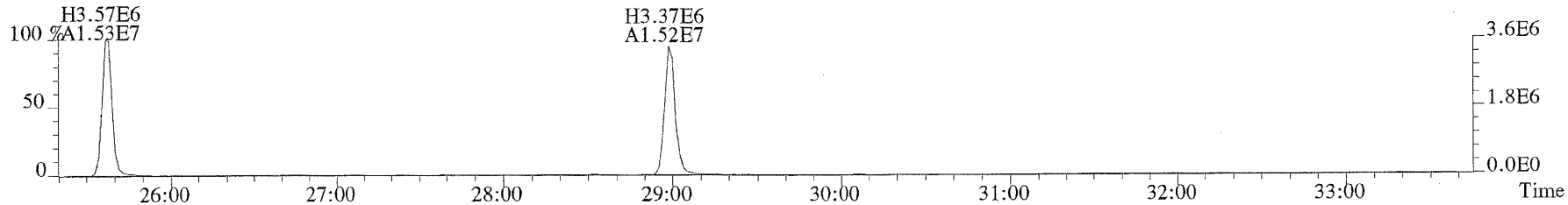
File:31JUL18Z #1-401 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



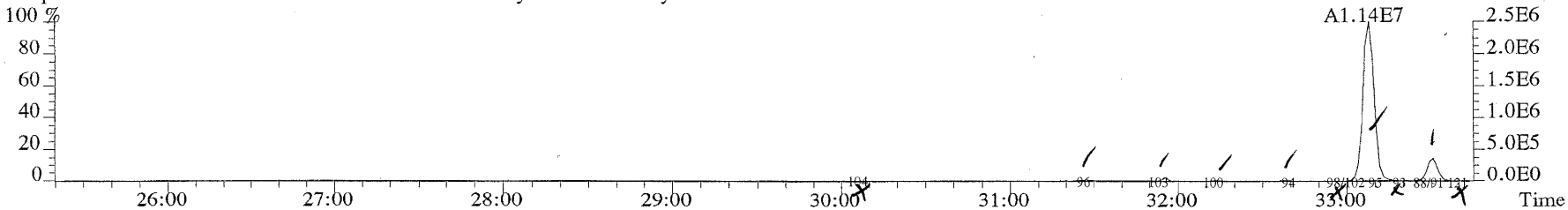
File:31JUL18Z #1-401 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



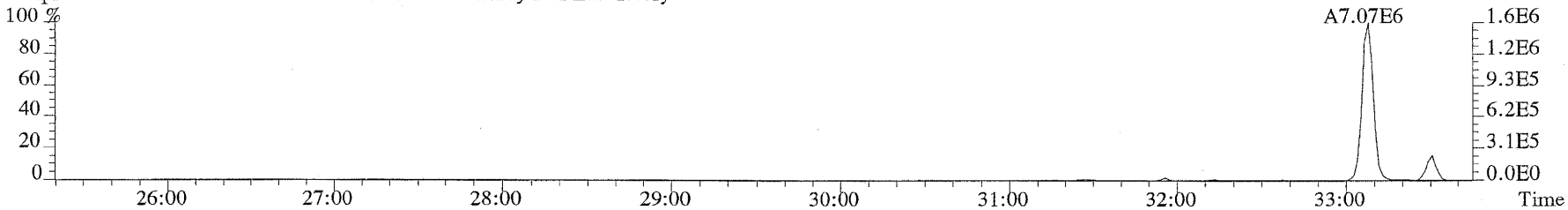
File:31JUL18Z #1-401 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



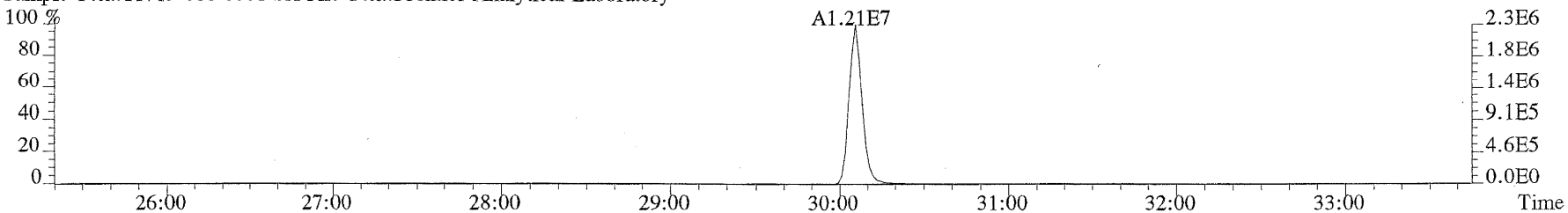
File:31JUL18Z #1-401 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



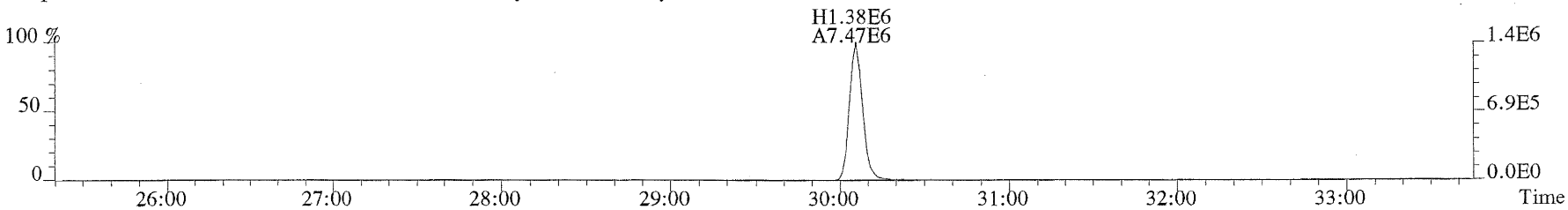
File:31JUL18Z #1-401 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



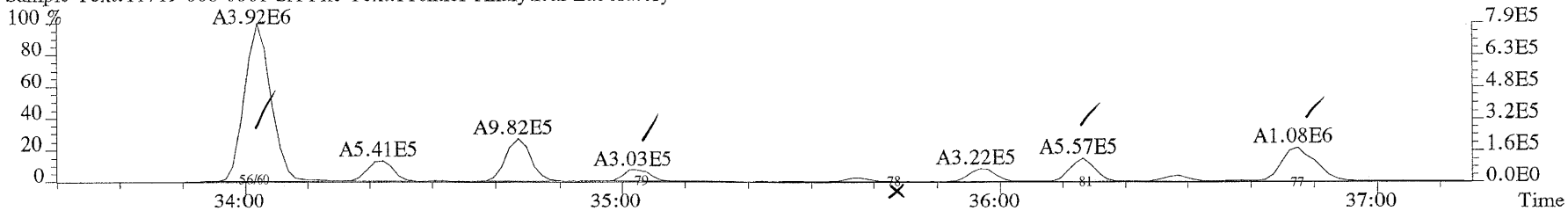
File:31JUL18Z #1-401 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



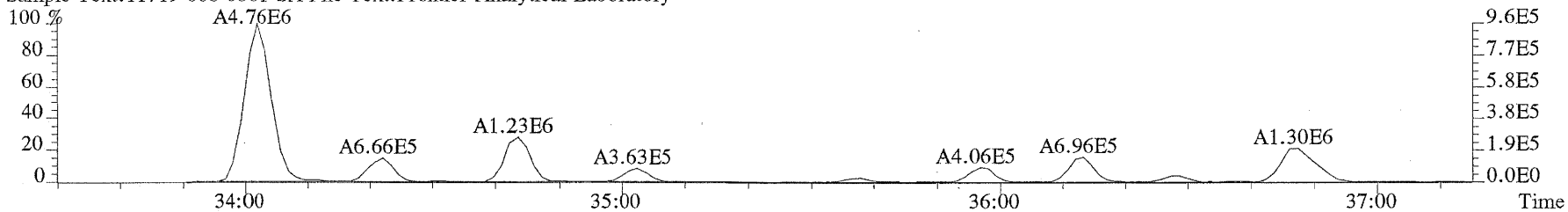
File:31JUL18Z #1-401 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



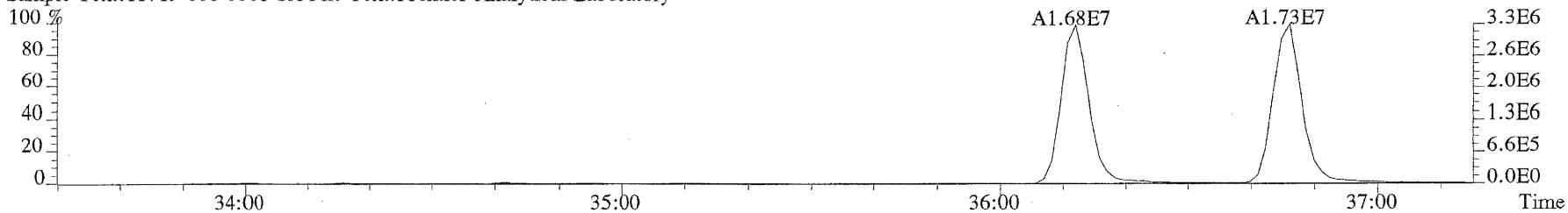
File:31JUL18Z #1-183 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



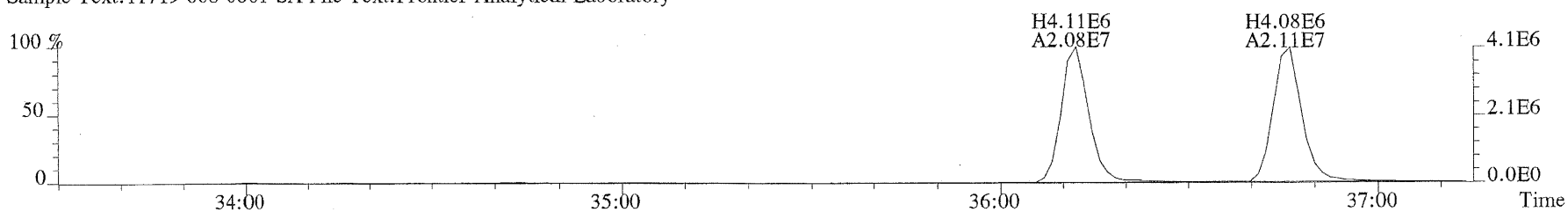
File:31JUL18Z #1-183 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



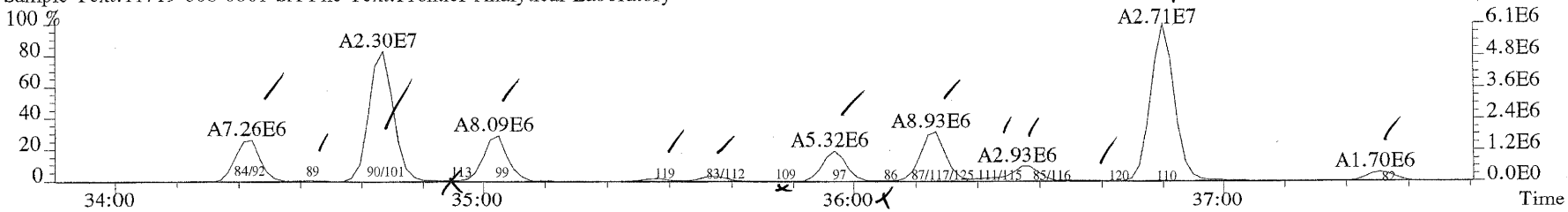
File:31JUL18Z #1-183 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



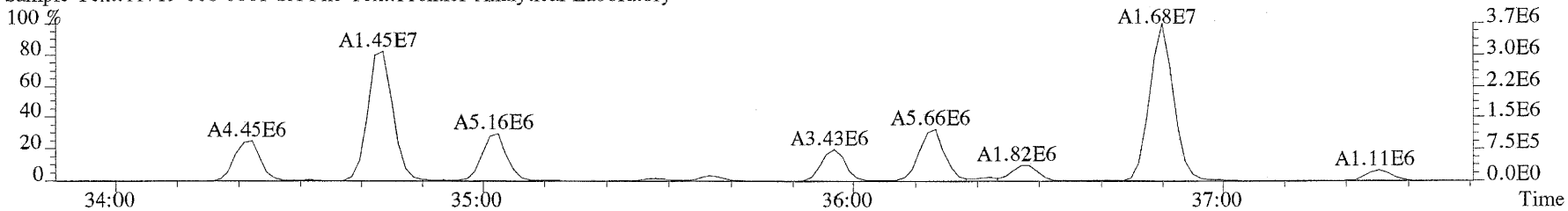
File:31JUL18Z #1-183 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



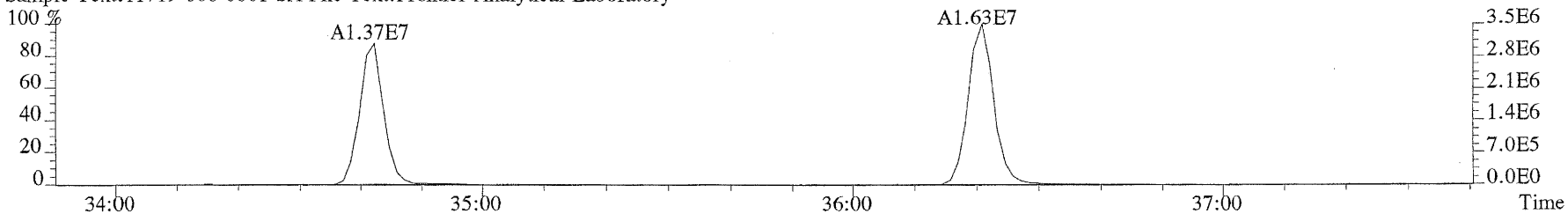
File:31JUL18Z #1-183 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



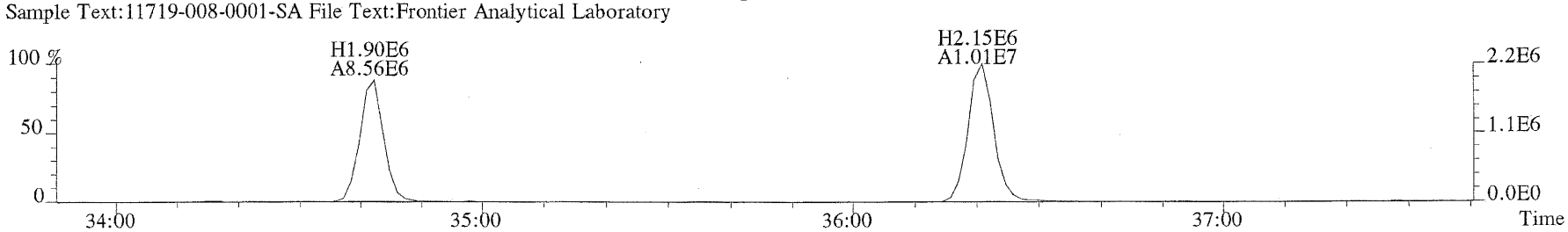
File:31JUL18Z #1-183 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



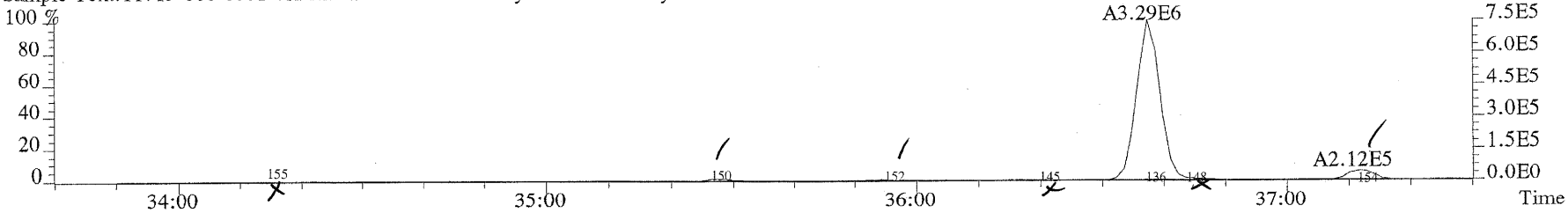
File:31JUL18Z #1-183 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



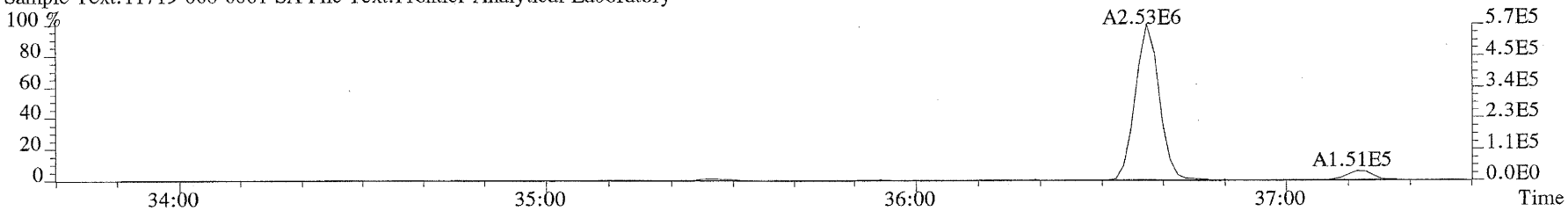
File:31JUL18Z #1-183 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



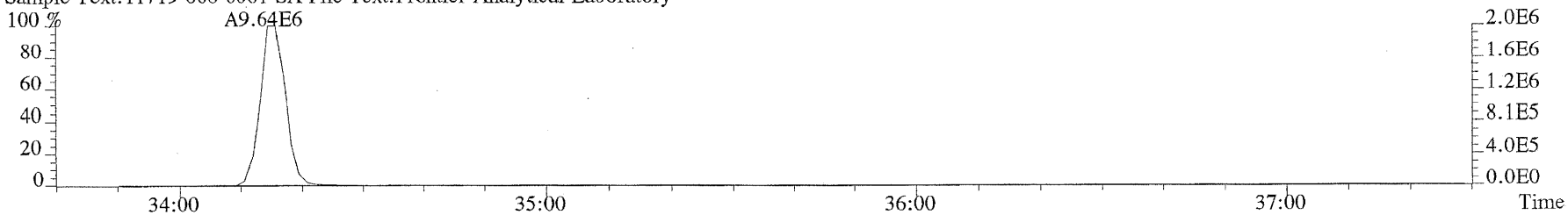
File:31JUL18Z #1-183 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



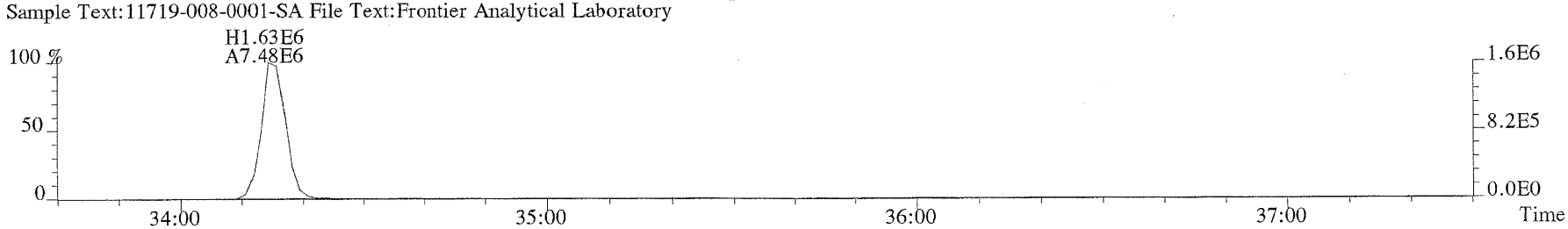
File:31JUL18Z #1-183 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



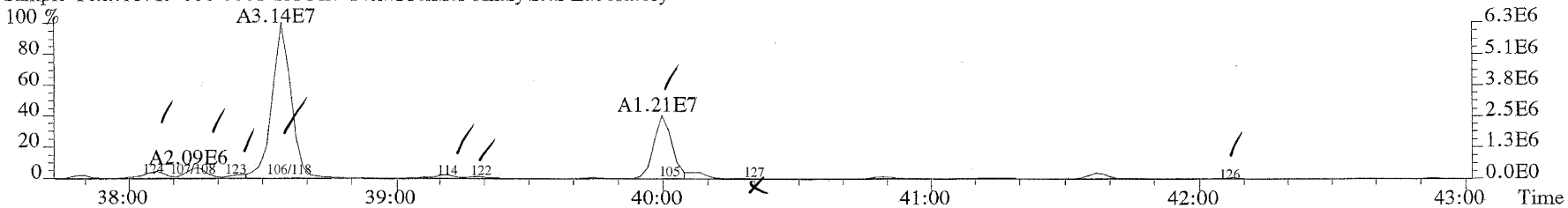
File:31JUL18Z #1-183 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



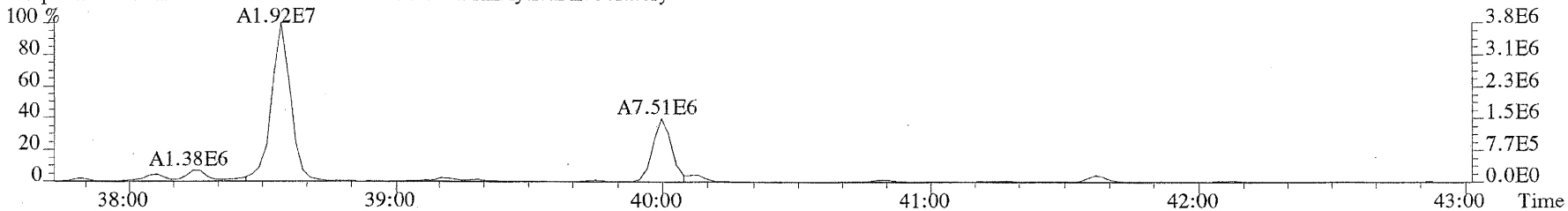
File:31JUL18Z #1-183 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



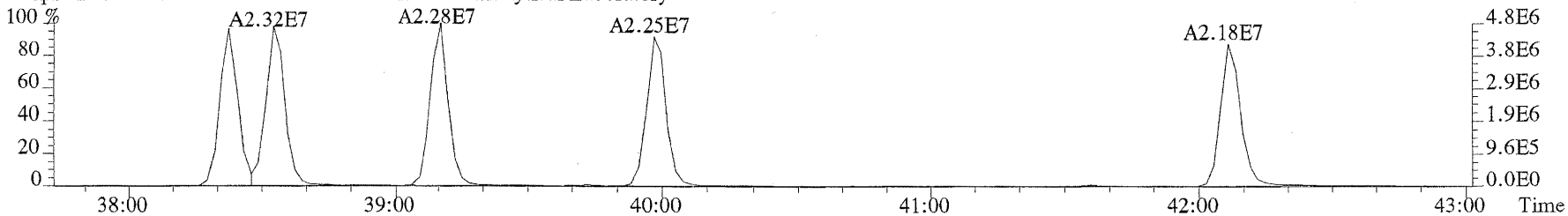
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



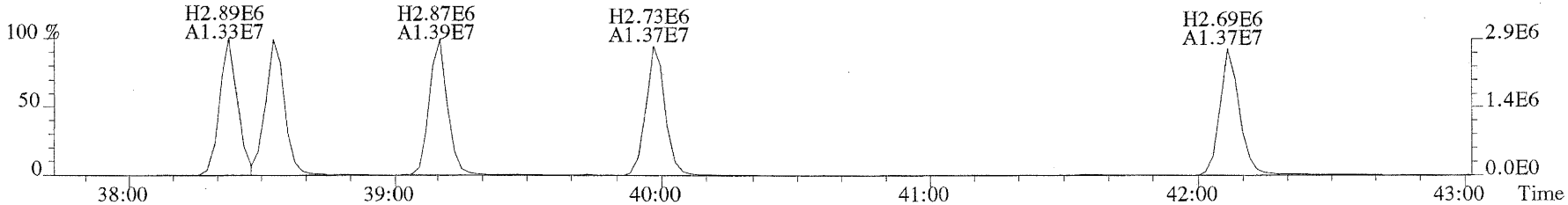
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



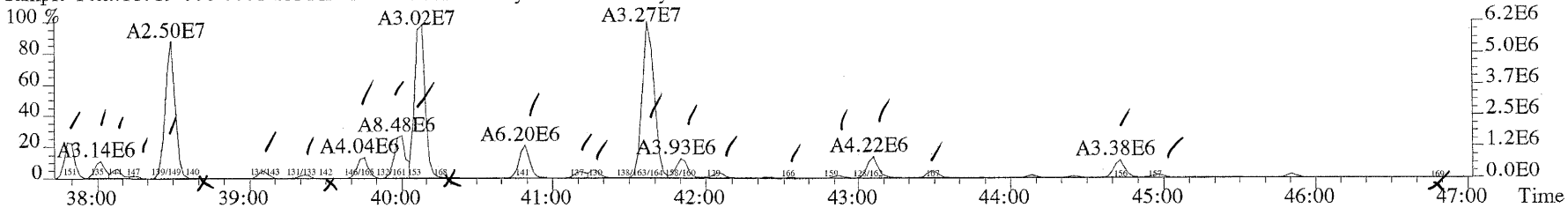
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



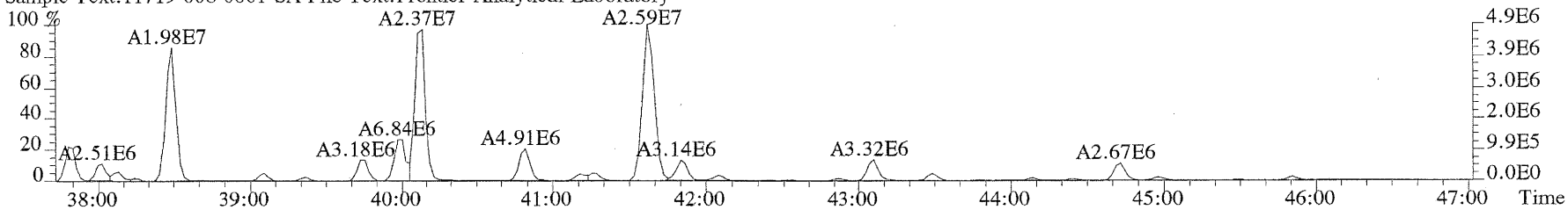
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



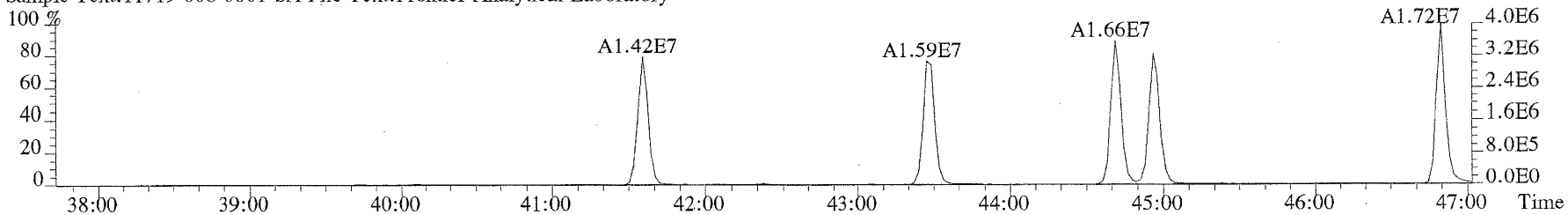
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



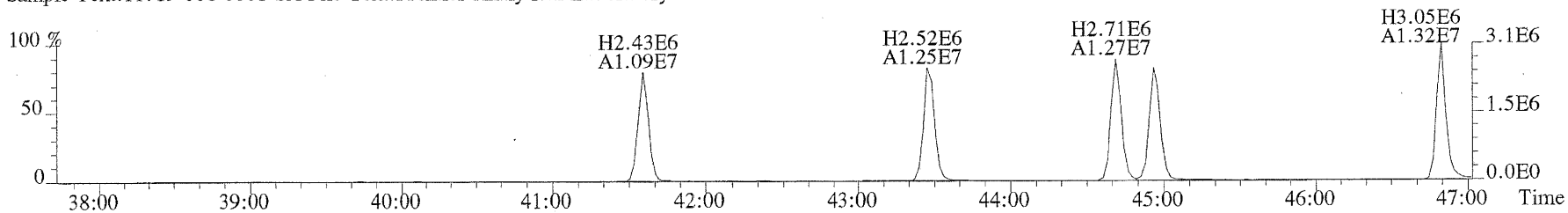
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



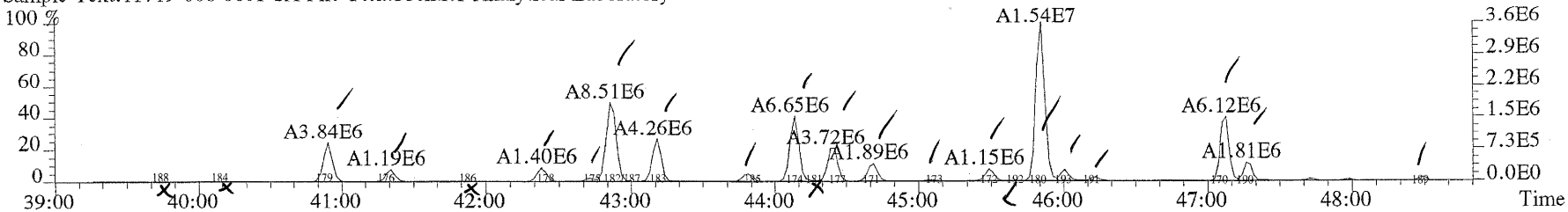
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



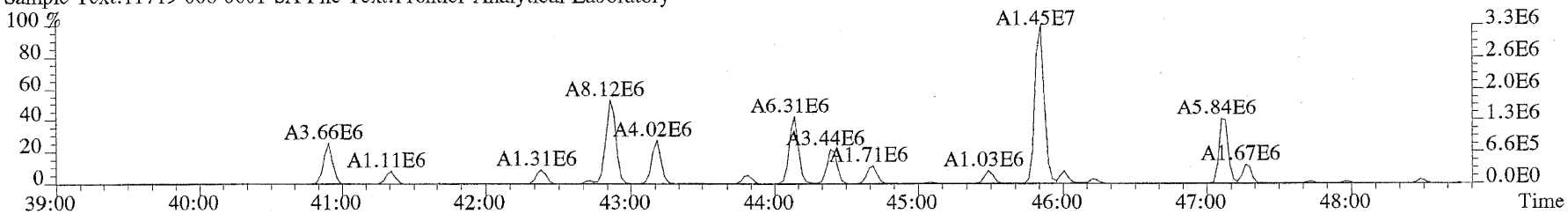
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



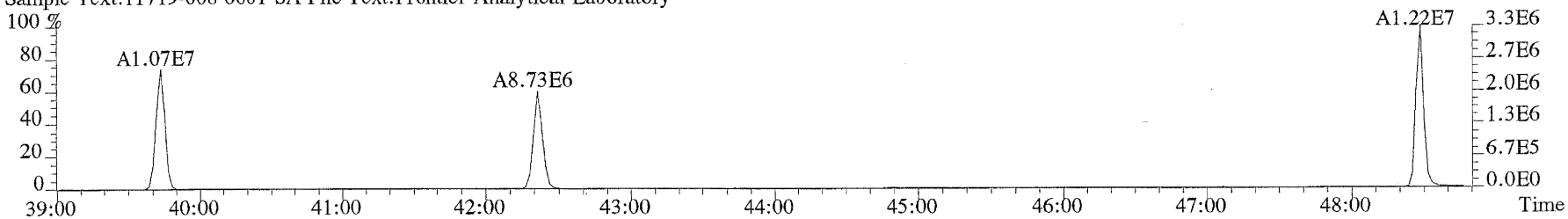
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



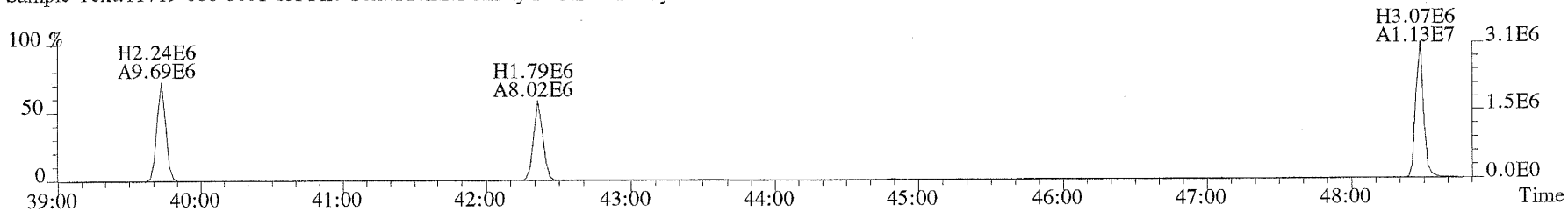
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



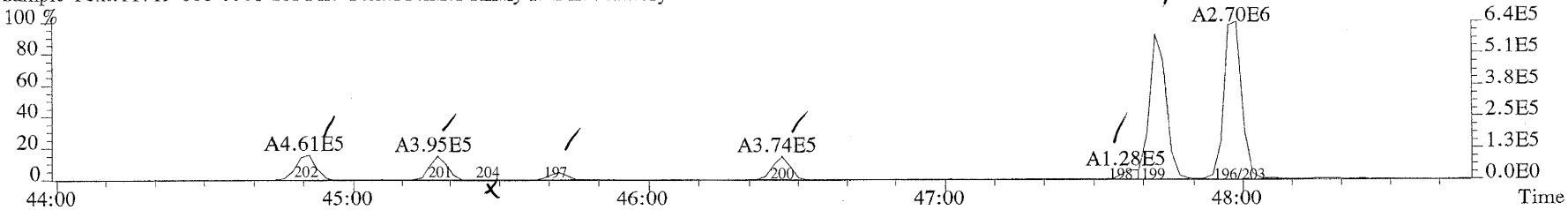
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



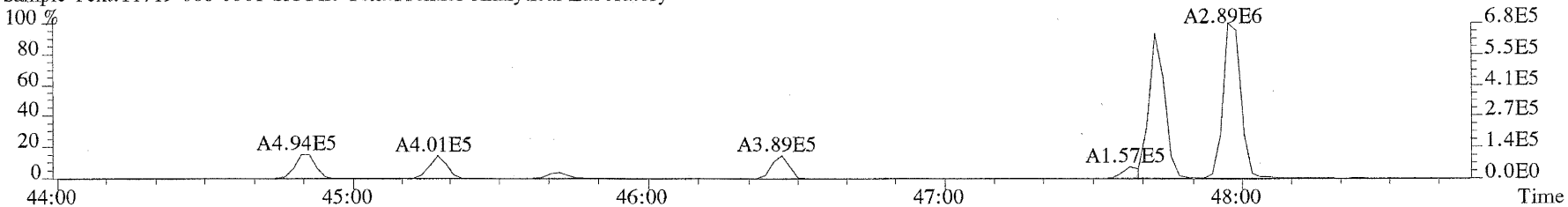
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



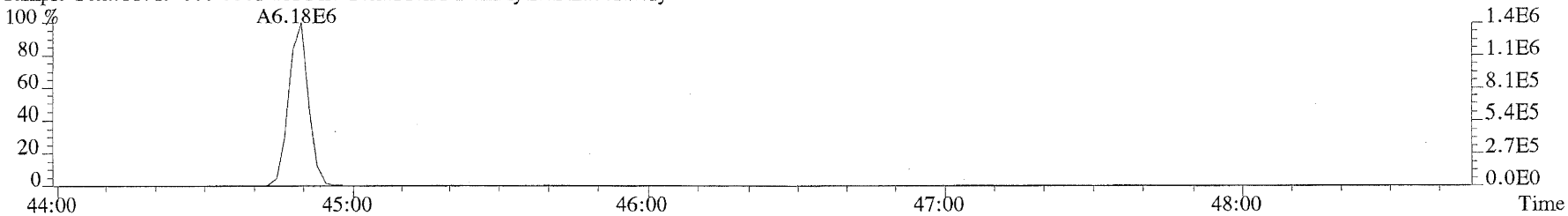
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



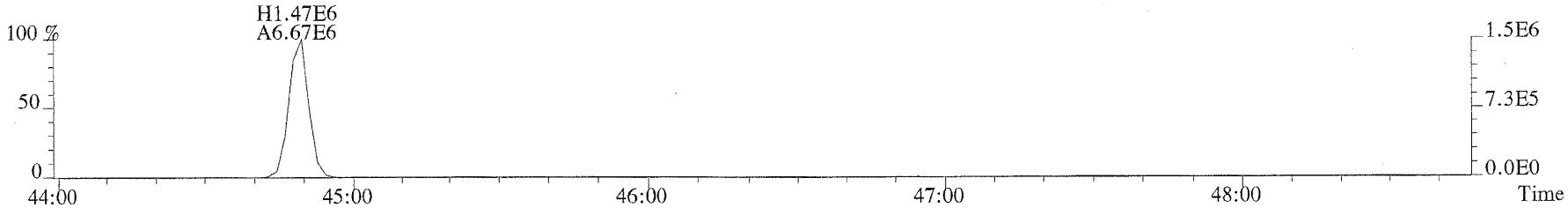
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



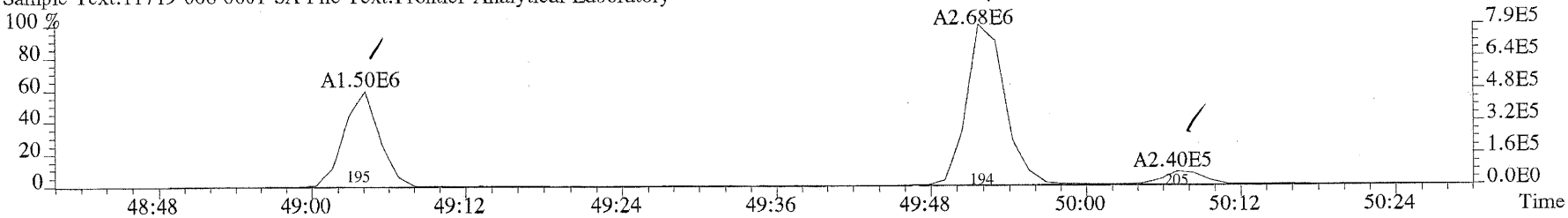
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



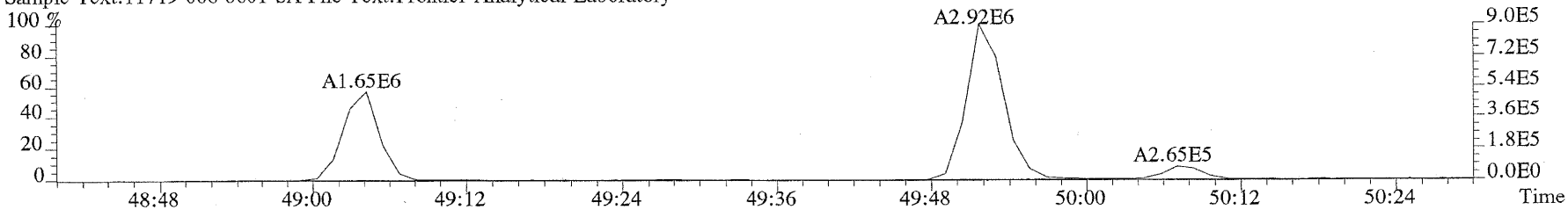
File:31JUL18Z #1-404 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



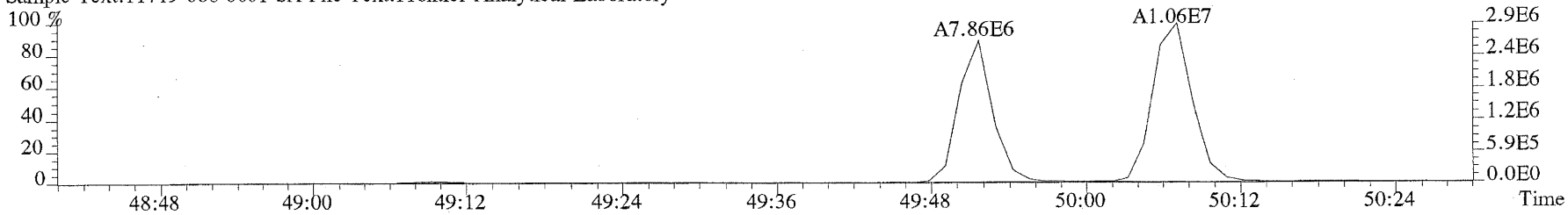
File:31JUL18Z #1-314 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



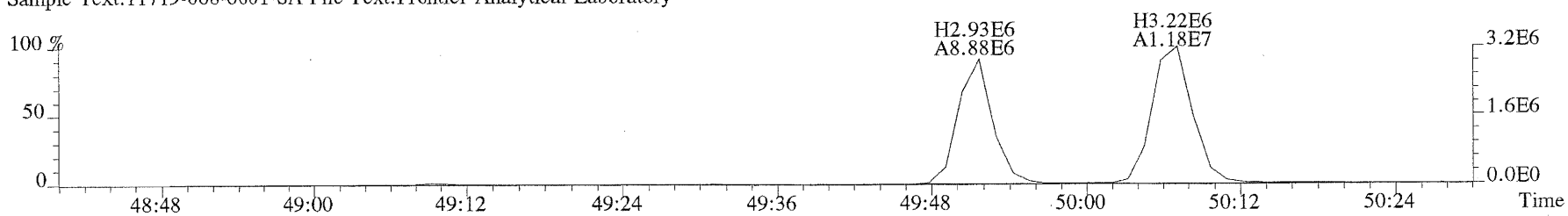
File:31JUL18Z #1-314 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



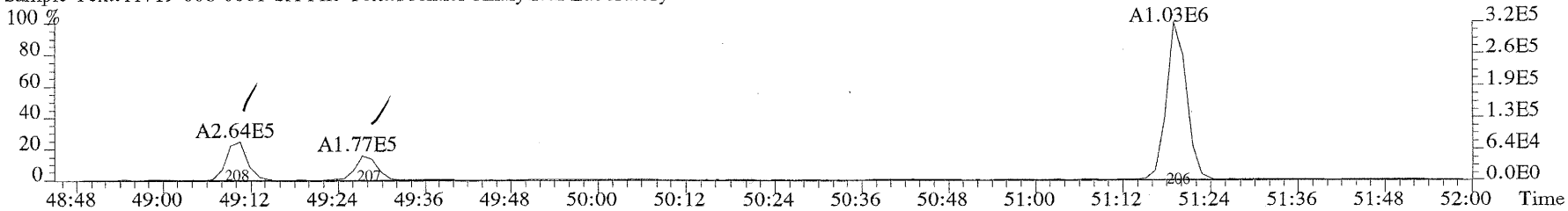
File:31JUL18Z #1-314 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



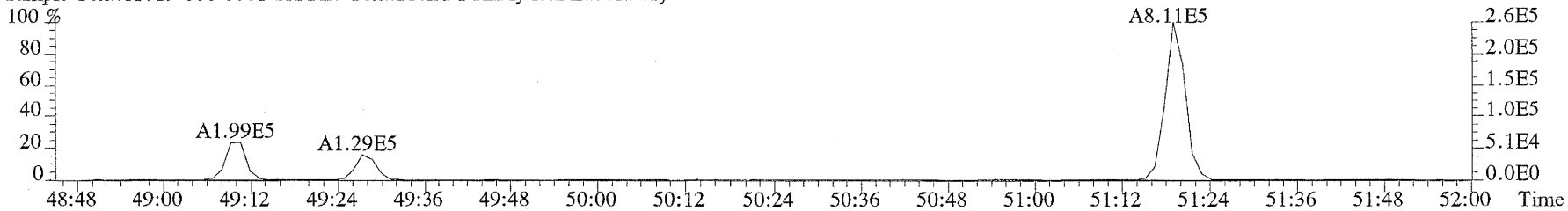
File:31JUL18Z #1-314 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



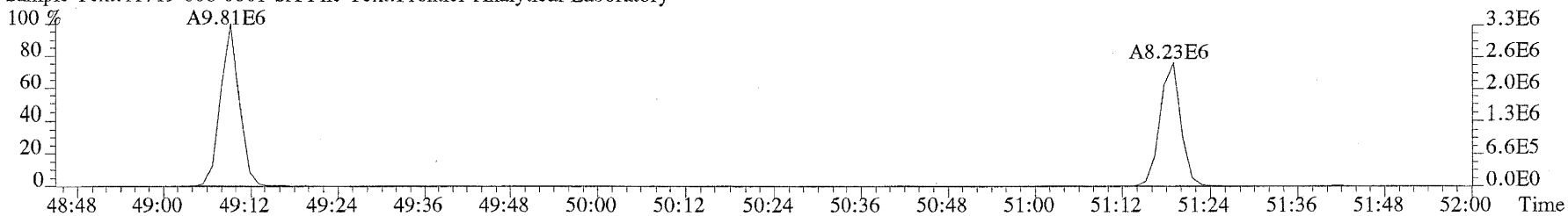
File:31JUL18Z #1-314 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



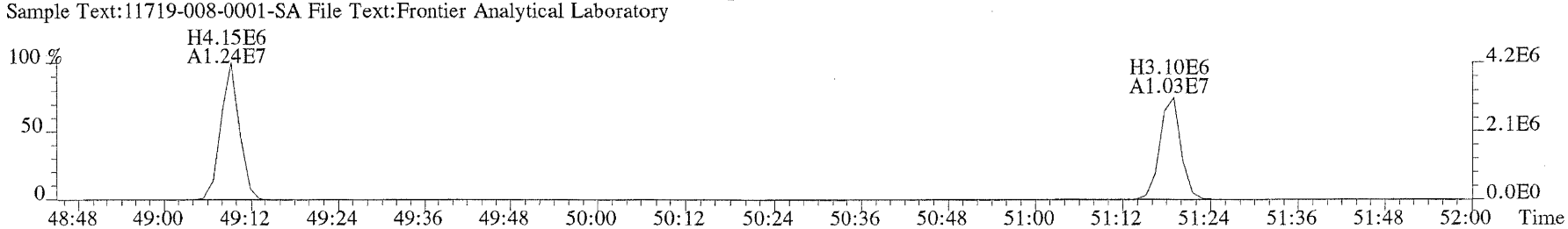
File:31JUL18Z #1-314 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



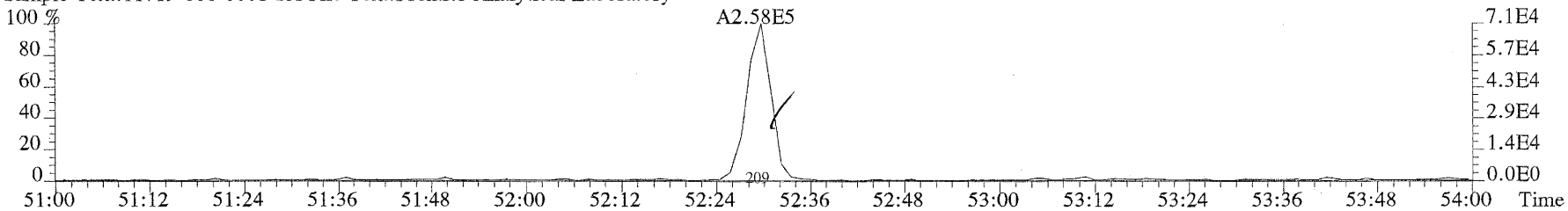
File:31JUL18Z #1-314 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



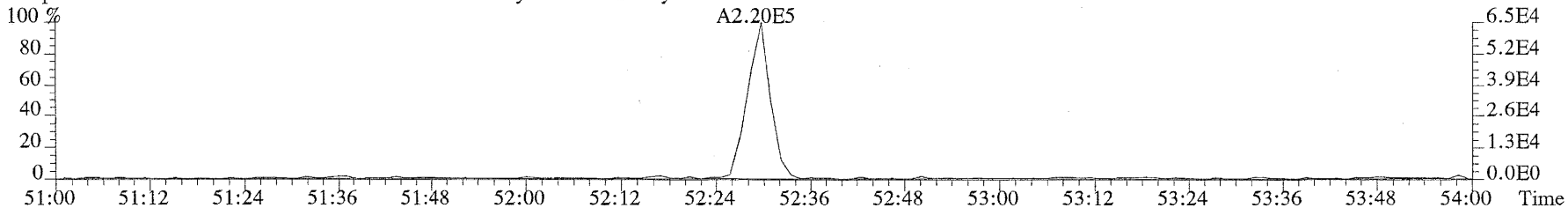
File:31JUL18Z #1-314 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



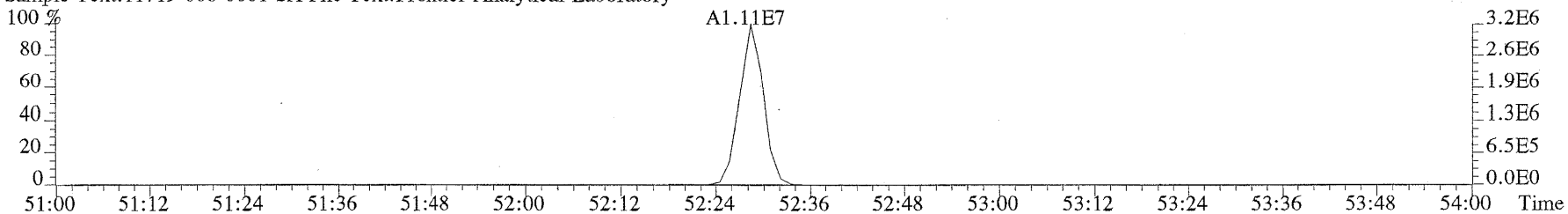
File:31JUL18Z #1-314 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



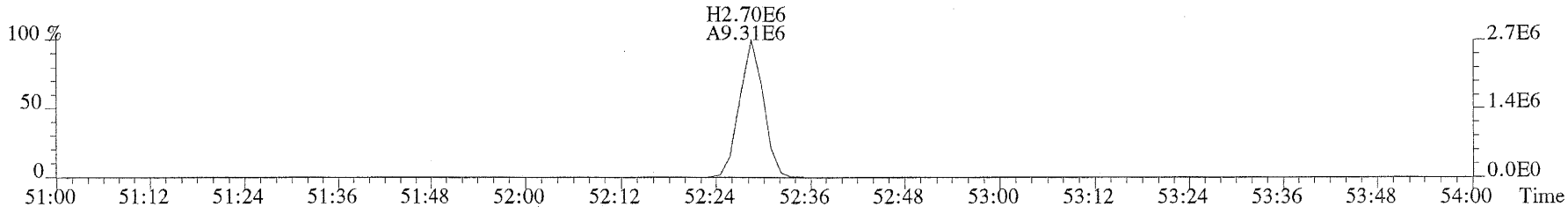
File:31JUL18Z #1-314 Acq:31-JUL-2018 15:05:27 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-008-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 15:05:27 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:11719-008-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 15:05:27 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:11719-008-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-009-0001-SA Filename: 31JUL18Z Sam:7 Acquired: 31-JUL-18 16:04:08 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SC-ENR-CC-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	1.47e+05	2.92 y	14:31	1.28	5.94		-	-	*			
13C-PCB-1	3.88e+07	3.22 y	14:30	0.83	1820					91.0	9.75e+06	2.97e+06
PCB-2	5.35e+04	3.16 y	16:45	1.15	2.42	J	-	-	*			
PCB-3	1.31e+05	3.08 y	16:59	1.27	5.44		-	-	*			
13C-PCB-3	3.79e+07	3.38 y	16:57	0.83	1770					88.4	8.24e+06	2.46e+06
PCB-4	4.26e+05	1.41 y	18:12	1.44	19.4		-	-	*			
PCB-10	5.34e+04	1.38 y	18:17	1.35	1.91	J	-	-	*			
13C-PCB-4	3.06e+07	1.63 y	18:11	0.68	1740					86.8	5.58e+06	3.40e+06
PCB-9	1.64e+05	1.51 y	19:53	1.44	5.50		-	-	*			
PCB-7	1.74e+05	1.64 y	19:56	1.55	5.41		-	-	*			
PCB-6	8.60e+05	1.54 y	20:31	1.44	28.9		-	-	*			
PCB-8	3.22e+06	1.55 y	20:54	1.45	108		-	-	*			
PCB-5	9.27e+04	1.37 y	20:59	1.46	3.06	J	-	-	*			
PCB-14	*	* n	NotFnd	1.36	*		620	1820	0.830			
PCB-11	4.12e+05	1.49 y	23:06	1.31	15.2		-	-	*			
PCB-13	2.80e+05	1.40 y	23:26	1.38	9.81		-	-	*			
PCB-12	1.96e+05	1.50 y	23:27	1.44	6.56		-	-	*			
PCB-15	2.56e+06	1.41 y	23:46	1.38	71.0		-	-	*			
13C-PCB-15	5.22e+07	1.64 y	23:44	1.01	2000					99.9	7.74e+06	4.63e+06
PCB-19	1.57e+05	1.17 y	22:05	1.31	13.3		-	-	*			
PCB-30	*	* n	NotFnd	1.68	*		870	764	1.04			
PCB-18	1.60e+06	1.13 y	23:39	1.25	142		-	-	*			
PCB-17	8.10e+05	1.04 y	23:49	1.37	65.3		-	-	*			
PCB-27	1.36e+05	1.16 y	24:20	1.68	8.96		-	-	*			
PCB-24	1.32e+05	1.17 y	24:21	1.74	8.41		-	-	*			
PCB-16	6.84e+05	1.08 y	24:50	1.49	50.9		-	-	*			
PCB-32	6.90e+05	1.10 y	24:51	1.50	50.7		-	-	*			
13C-PCB-19	1.81e+07	1.11 y	22:04	0.35	1990					99.5	2.41e+06	2.24e+06
13C-PCB-9	5.16e+07	1.67 y	19:52	-	13.9							
PCB-34	6.37e+04	1.09 y	25:39	1.40	2.25	J	-	-	*			
PCB-23	*	* n	NotFnd	1.50	*		983	395	0.769			
PCB-29	6.67e+04	1.13 y	25:57	1.31	2.50	J	-	-	*			
PCB-26	1.44e+06	1.11 y	26:08	1.25	56.7		-	-	*			
PCB-25	9.01e+05	1.16 y	26:17	1.60	27.7		-	-	*			
PCB-31	5.73e+06	1.07 y	26:37	1.21	233		-	-	*			
PCB-28	8.79e+06	1.10 y	26:43	1.69	256		-	-	*			
PCB-20	3.68e+06	1.15 y	27:19	1.36	133		-	-	*		Co-elute PCB 21/33	
PCB-21	3.68e+06	1.15 y	27:19	1.36	133		-	-	*		Co-elute PCB 20/33	
PCB-33	3.68e+06	1.15 y	27:19	1.36	133		-	-	*		Co-elute PCB 20/21	
PCB-22	2.48e+06	1.12 y	27:43	1.41	86.6		-	-	*			
PCB-36	*	* n	NotFnd	1.20	*		983	395	0.963			
PCB-39	*	* n	NotFnd	1.05	*		983	395	1.10			
PCB-38	9.86e+04	1.08 y	29:30	1.39	3.50	J	-	-	*			
PCB-35	1.63e+05	1.08 y	30:01	1.12	7.17		-	-	*			
PCB-37	2.42e+06	1.11 y	30:30	1.40	85.4		-	-	*			
13C-PCB-37	4.06e+07	0.96 y	30:29	1.54	2270					113	3.04e+06	2.94e+06

PCB-54	*	*	n	NotFnd	1.13	*		456	544	0.702			
PCB-50	*	*	n	NotFnd	0.72	*		456	544	1.10			
PCB-53	4.46e+05	0.80	y	27:20	0.76	47.9		-	-	*			
PCB-51	1.74e+05	0.69	y	27:40	0.76	18.7		-	-	*			
PCB-45	3.14e+05	0.74	y	28:06	0.63	40.6		-	-	*			
PCB-46	1.34e+05	0.87	y	28:32	0.65	16.9		-	-	*			
PCB-52	5.93e+06	0.76	y	28:59	0.92	529		-	-	*	Co-elute PCB 69		
PCB-69	5.93e+06	0.76	y	28:59	0.92	529		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	0.87	*		456	544	0.911			
PCB-43	3.22e+06	0.76	y	29:16	0.72	366		-	-	*	Co-elute PCB 49		
PCB-49	3.22e+06	0.76	y	29:16	0.72	366		-	-	*	Co-elute PCB 43		
PCB-47	1.16e+06	0.80	y	29:29	0.84	114		-	-	*			
PCB-48	9.59e+05	0.77	y	29:35	0.96	82.2		-	-	*	Co-elute PCB 75		
PCB-75	9.59e+05	0.77	y	29:35	0.96	82.2		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.01	*		456	544	0.785			
PCB-62	*	*	n	NotFnd	0.97	*		456	544	0.820			
PCB-44	3.06e+06	0.76	y	30:16	0.66	378		-	-	*			
PCB-42	1.35e+06	0.75	y	30:31	0.85	130		-	-	*	Co-elute PCB 59		
PCB-59	1.35e+06	0.75	y	30:31	0.85	130		-	-	*	Co-elute PCB 42		
PCB-72	3.67e+06	0.76	y	31:10	0.92	329		-	-	*	Co-elute PCB 41/71/64		
PCB-41	3.67e+06	0.76	y	31:10	0.92	329		-	-	*	Co-elute PCB 72/71/64		
PCB-71	3.67e+06	0.76	y	31:10	0.92	329		-	-	*	Co-elute PCB 72/41/64		
PCB-64	3.67e+06	0.76	y	31:10	0.92	329		-	-	*	Co-elute PCB 72/41/71		
PCB-68	4.89e+04	0.83	y	31:28	1.03	3.89	J	-	-	*			
PCB-40	4.09e+05	0.73	y	31:37	0.59	56.8		-	-	*			
PCB-57	4.16e+04	0.87	y	31:51	0.97	3.52	J	-	-	*			
PCB-67	1.95e+05	0.73	y	32:08	0.98	16.2		-	-	*			
PCB-58	1.84e+04	0.78	y	32:13	0.90	1.68	J	-	-	*			
PCB-63	2.10e+05	0.73	y	32:22	1.02	16.9		-	-	*			
PCB-74	2.61e+06	0.80	y	32:39	1.13	189		-	-	*			
PCB-61	6.29e+06	0.77	y	32:51	1.07	481		-	-	*	Co-elute PCB 70		
PCB-70	6.29e+06	0.77	y	32:51	1.07	481		-	-	*	Co-elute PCB 61		
PCB-76	5.72e+06	0.77	y	33:03	1.00	470		-	-	*	Co-elute PCB 66		
PCB-66	5.72e+06	0.77	y	33:03	1.00	470		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.10	*		456	544	0.722			
PCB-55	1.71e+05	0.86	y	33:29	1.07	13.1		-	-	*			
13C-PCB-54	2.44e+07	0.80	y	25:36	1.28	1640					81.8	2.80e+06	3.50e+06
PCB-104	*	*	n	NotFnd	1.27	*		420	321	0.949			
PCB-96	4.77e+04	1.53	y	31:25	1.13	5.06		-	-	*			
PCB-103	1.50e+05	1.46	y	31:51	0.97	18.7		-	-	*			
PCB-100	5.84e+04	1.78	y	32:10	0.98	7.18		-	-	*			
PCB-94	2.33e+04	1.42	y	32:36	0.87	3.22	J	-	-	*			
PCB-98	*	*	n	NotFnd	1.02	*		420	321	1.19	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.02	*		420	321	1.19	Co-elute PCB 98		
PCB-95	4.57e+06	1.60	y	33:05	0.88	624		-	-	*			
PCB-93	*	*	n	NotFnd	0.81	*		420	321	1.49			
PCB-88	8.05e+05	1.62	y	33:28	0.91	107		-	-	*	Co-elute PCB 91		
PCB-91	8.05e+05	1.62	y	33:28	0.91	107		-	-	*	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.12	*		420	321	1.08			
13C-PCB-104	1.66e+07	1.62	y	30:04	0.76	1880					93.9	1.90e+06	1.17e+06
13C-PCB-28	4.60e+07	1.09	y	26:42	1.88	2110					105	5.46e+06	5.02e+06
13C-PCB-52	2.33e+07	0.78	y	28:57	-	17.2							

PCB-56	5.06e+06	0.82	y	34:01	1.26	240	-	-	*		Co-elute PCB 60
PCB-60	5.06e+06	0.82	y	34:01	1.26	240	-	-	*		Co-elute PCB 56
PCB-79	2.42e+05	0.78	y	35:01	1.19	12.2	-	-	*		
PCB-78	*	*	n	NotFnd	1.13	*	457	655	0.773		
PCB-81	3.64e+05	0.84	y	36:12	1.25	17.9	-	-	*		
13C-PCB-81	3.25e+07	0.81	y	36:11	1.79	1960				97.8	2.88e+06 3.62e+06
PCB-77	9.01e+05	0.82	y	36:46	1.17	44.9	-	-	*		
13C-PCB-77	3.43e+07	0.83	y	36:45	1.72	2140				107	2.82e+06 3.45e+06
PCB-155	*	*	n	NotFnd	1.21	*	244	164	0.512		
PCB-150	5.97e+04	1.30	y	35:25	1.07	7.60	-	-	*		
PCB-152	*	*	n	NotFnd	1.04	*	244	164	0.599		
PCB-145	*	*	n	NotFnd	1.09	*	244	164	0.572		
PCB-136	1.47e+06	1.22	y	36:36	0.97	206	-	-	*		
PCB-148	*	*	n	NotFnd	0.86	*	244	164	0.723		
PCB-154	2.89e+05	1.30	y	37:10	1.02	38.9	-	-	*		
13C-PCB-155	1.47e+07	1.32	y	34:13	0.83	1890				94.4	1.87e+06 1.42e+06
13C-PCB-111	2.25e+07	1.60	y	36:20	1.23	1960				98.1	2.93e+06 1.79e+06
13C-PCB-101	1.86e+07	1.61	y	34:40	-	14.2					
PCB-84	3.24e+06	1.63	y	34:20	0.58	340	-	-	*		Co-elute PCB 92
PCB-92	3.24e+06	1.63	y	34:20	0.58	340	-	-	*		Co-elute PCB 84
PCB-89	8.39e+04	1.51	y	34:31	0.56	9.12	-	-	*		
PCB-90	1.01e+07	1.57	y	34:41	0.66	926	-	-	*		Co-elute PCB 101
PCB-101	1.01e+07	1.57	y	34:41	0.66	926	-	-	*		Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.69	*	441	402	0.893		
PCB-99	4.50e+06	1.58	y	35:00	0.75	363	-	-	*		
PCB-119	3.26e+05	1.47	y	35:27	0.79	25.1	-	-	*		
PCB-83	3.95e+05	1.46	y	35:35	0.67	35.7	-	-	*		Co-elute PCB 112
PCB-112	3.95e+05	1.46	y	35:35	0.67	35.7	-	-	*		Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.80	*	441	402	0.768		
PCB-97	2.43e+06	1.58	y	35:56	0.72	203	-	-	*		
PCB-86	*	*	n	NotFnd	0.66	*	441	402	0.925		
PCB-125	3.67e+06	1.59	y	36:11	0.73	304	-	-	*		Co-elute PCB 87/117
PCB-87	3.67e+06	1.59	y	36:11	0.73	304	-	-	*		Co-elute PCB 125/117
PCB-117	3.67e+06	1.59	y	36:11	0.73	304	-	-	*		Co-elute PCB 125/87
PCB-111	2.02e+05	1.42	y	36:21	0.91	13.5	-	-	*		Co-elute PCB 115
PCB-115	2.02e+05	1.42	y	36:21	0.91	13.5	-	-	*		Co-elute PCB 111
PCB-85	1.41e+06	1.62	y	36:26	0.69	123	-	-	*		Co-elute PCB 116
PCB-116	1.41e+06	1.62	y	36:26	0.69	123	-	-	*		Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.86	*	441	402	0.713		
PCB-110	1.15e+07	1.57	y	36:49	0.85	819	-	-	*		
PCB-82	7.60e+05	1.49	y	37:24	0.51	90.0	-	-	*		
PCB-124	8.55e+05	1.67	y	38:05	1.24	41.7	-	-	*		
PCB-108	1.26e+06	1.60	y	38:15	1.24	61.4	-	-	*		Co-elute PCB 107
PCB-107	1.26e+06	1.60	y	38:15	1.24	61.4	-	-	*		Co-elute PCB 108
PCB-123	2.46e+05	1.54	y	38:23	1.50	10.8	-	-	*		
13C-PCB-123	3.05e+07	1.61	y	38:21	1.55	1800				90.1	4.20e+06 2.59e+06
PCB-118	1.66e+07	1.62	y	38:33	1.11	879	-	-	*		Co-elute PCB 106
PCB-106	1.66e+07	1.62	y	38:33	1.11	879	-	-	*		Co-elute PCB 118
13C-PCB-118	3.40e+07	1.64	y	38:31	1.75	1790				89.4	4.08e+06 2.52e+06
PCB-114	4.73e+05	1.53	y	39:10	1.30	20.7	-	-	*		
13C-PCB-114	3.51e+07	1.63	y	39:09	1.58	2040				102	4.72e+06 2.93e+06
PCB-122	2.71e+05	1.63	y	39:17	1.17	14.0	-	-	*		
PCB-105	6.54e+06	1.66	y	39:58	1.24	319	-	-	*		
13C-PCB-105	3.30e+07	1.62	y	39:58	1.49	2040				102	4.10e+06 2.48e+06

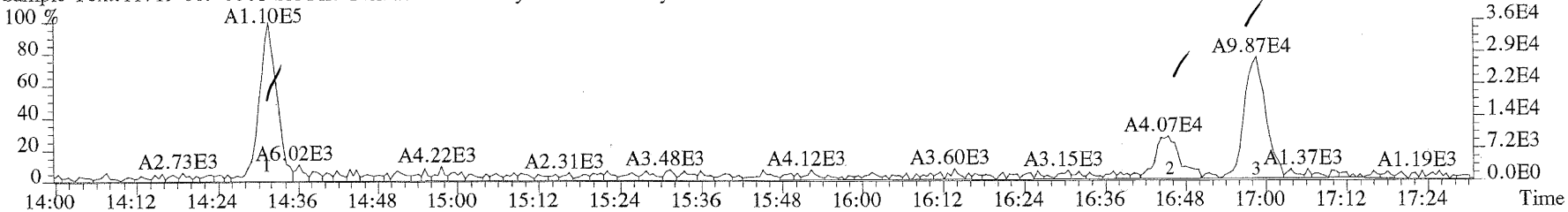
PCB-127	*	*	n	NotFnd	1.09	*		540	370	0.606			
PCB-126	1.16e+05	1.67	y	42:07	1.28	5.61		-	-	*			
13C-PCB-126	3.23e+07	1.58	y	42:07	1.40	2120					106	3.70e+06	2.25e+06
PCB-151	3.00e+06	1.30	y	37:48	0.78	304		-	-	*			
PCB-135	1.71e+06	1.21	y	38:00	0.91	148		-	-	*			
PCB-144	7.10e+05	1.30	y	38:06	0.91	61.7		-	-	*			
PCB-147	3.13e+05	1.11	y	38:15	0.99	25.0		-	-	*			
PCB-139	1.21e+07	1.29	y	38:28	0.98	979		-	-	*		Co-elute PCB 149	
PCB-149	1.21e+07	1.29	y	38:28	0.98	979		-	-	*		Co-elute PCB 139	
PCB-140	1.66e+05	1.27	y	38:39	0.99	13.2		-	-	*			
PCB-143	6.96e+05	1.19	y	39:04	0.91	60.0		-	-	*		Co-elute PCB 134	
PCB-134	6.96e+05	1.19	y	39:04	0.91	60.0		-	-	*		Co-elute PCB 143	
PCB-131	4.25e+05	1.20	y	39:20	0.91	36.7		-	-	*		Co-elute PCB 133	
PCB-133	4.25e+05	1.20	y	39:20	0.91	36.7		-	-	*		Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.83	*		554	400	1.14			
PCB-165	2.84e+06	1.31	y	39:43	1.09	206		-	-	*		Co-elute PCB 146	
PCB-146	2.84e+06	1.31	y	39:43	1.09	206		-	-	*		Co-elute PCB 165	
PCB-161	4.25e+06	1.25	y	39:58	1.00	334		-	-	*		Co-elute PCB 132	
PCB-132	4.25e+06	1.25	y	39:58	1.00	334		-	-	*		Co-elute PCB 161	
PCB-153	1.81e+07	1.27	y	40:06	1.09	1310		-	-	*			
PCB-168	*	*	n	NotFnd	1.19	*		554	400	0.802			
PCB-141	2.37e+06	1.20	y	40:48	0.92	203		-	-	*			
PCB-137	5.46e+05	1.25	y	41:09	0.82	52.7		-	-	*			
PCB-130	8.97e+05	1.31	y	41:16	0.89	79.6		-	-	*			
PCB-138	1.84e+07	1.27	y	41:35	1.20	1210		-	-	*		Co-elute PCB 163/164	
PCB-163	1.84e+07	1.27	y	41:35	1.20	1210		-	-	*		Co-elute PCB 138/164	
PCB-164	1.84e+07	1.27	y	41:35	1.20	1210		-	-	*		Co-elute PCB 138/163	
PCB-158	2.11e+06	1.33	y	41:50	1.21	137		-	-	*		Co-elute PCB 160	
PCB-160	2.11e+06	1.33	y	41:50	1.21	137		-	-	*		Co-elute PCB 158	
PCB-129	5.09e+05	1.30	y	42:03	0.78	51.3		-	-	*			
PCB-166	5.49e+04	1.34	y	42:31	1.14	3.80	J	-	-	*			
PCB-159	2.31e+05	1.35	y	42:51	1.20	15.2		-	-	*			
PCB-128	2.46e+06	1.26	y	43:04	1.02	191		-	-	*		Co-elute PCB 162	
PCB-162	2.46e+06	1.26	y	43:04	1.02	191		-	-	*		Co-elute PCB 128	
PCB-167	9.06e+05	1.30	y	43:29	1.08	68.5		-	-	*			
13C-PCB-167	2.44e+07	1.29	y	43:27	1.16	1930					96.5	2.88e+06	2.20e+06
PCB-156	1.83e+06	1.31	y	44:41	1.13	132		-	-	*			
13C-PCB-156	2.46e+07	1.29	y	44:40	1.10	2050					103	2.60e+06	2.00e+06
PCB-157	3.96e+05	1.07	y	44:56	1.21	26.1		-	-	*			
13C-PCB-157	2.51e+07	1.31	y	44:56	1.13	2050					103	2.64e+06	2.09e+06
PCB-169	*	*	n	NotFnd	1.13	*		554	400	0.735			
13C-PCB-169	2.72e+07	1.26	y	46:48	1.06	2350					118	3.22e+06	2.53e+06

FAL ID: 11719-009-0001-SA Filename: 31JUL18Z Sam:7 Acquired: 31-JUL-18 16:04:08 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SC-ENR-CC-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.000

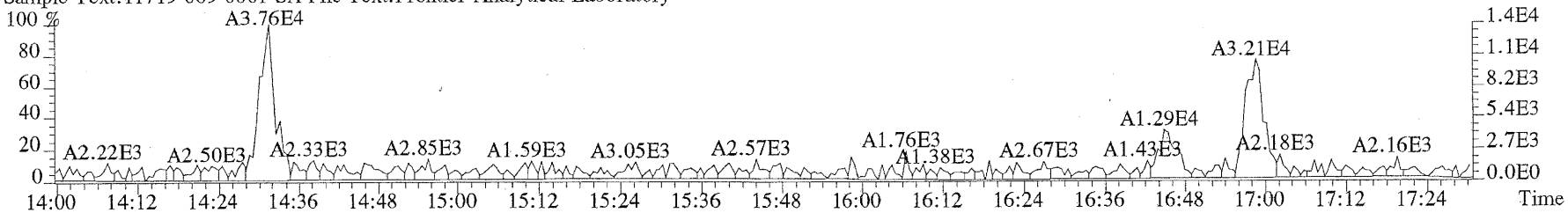
PCB-188	2.33e+04	1.13	y	39:43	1.18	2.34	J	-	-	*			
13C-PCB-188	1.69e+07	1.10	y	39:42	0.83	1860					93.0	1.99e+06	1.82e+06
PCB-184	*	*	n	NotFnd	1.27	*		532	464	0.924			
PCB-179	1.79e+06	1.06	y	40:53	1.16	168		-	-	*			
PCB-176	5.54e+05	1.09	y	41:19	1.13	53.4		-	-	*			
PCB-186	*	*	n	NotFnd	1.20	*		532	464	0.985			
PCB-178	7.06e+05	1.05	y	42:21	0.82	94.8		-	-	*			
PCB-175	1.39e+05	1.09	y	42:41	0.85	17.9		-	-	*			
PCB-187	4.59e+06	1.06	y	42:51	0.97	517		-	-	*		Co-elute PCB 182	
PCB-182	4.59e+06	1.06	y	42:51	0.97	517		-	-	*		Co-elute PCB 187	
PCB-183	2.30e+06	1.07	y	43:09	0.92	273		-	-	*			
PCB-185	3.37e+05	1.16	y	43:47	0.87	42.3		-	-	*			
PCB-174	2.92e+06	1.09	y	44:07	0.88	361		-	-	*			
PCB-181	*	*	n	NotFnd	0.86	*		532	464	1.36			
PCB-177	2.00e+06	1.09	y	44:23	0.78	281		-	-	*			
PCB-171	9.35e+05	1.04	y	44:40	0.84	122		-	-	*			
PCB-173	6.50e+04	1.15	y	45:04	0.75	9.53		-	-	*			
PCB-172	5.16e+05	1.05	y	45:27	0.79	71.7		-	-	*			
PCB-192	*	*	n	NotFnd	1.11	*		532	464	1.06			
PCB-180	7.14e+06	1.06	y	45:49	1.07	727		-	-	*			
PCB-193	6.47e+05	1.06	y	45:59	1.12	63.0		-	-	*			
PCB-191	2.14e+05	1.04	y	46:12	1.06	22.1		-	-	*			
PCB-170	3.22e+06	1.07	y	47:06	0.78	451		-	-	*			
PCB-190	9.75e+05	1.05	y	47:16	1.05	102		-	-	*			
PCB-189	1.77e+05	1.06	y	48:29	1.20	15.0		-	-	*			
13C-PCB-189	1.97e+07	1.09	y	48:27	0.72	2490					125	2.42e+06	2.25e+06
PCB-202	2.73e+05	0.88	y	44:50	1.07	49.3		-	-	*			
PCB-201	2.02e+05	0.79	y	45:18	0.97	40.0		-	-	*			
PCB-204	*	*	n	NotFnd	1.00	*		280	268	1.23			
PCB-197	6.13e+04	0.80	y	45:41	1.07	11.0		-	-	*			
PCB-200	1.85e+05	0.89	y	46:27	1.00	35.6		-	-	*			
PCB-198	5.13e+04	0.91	y	47:36	0.77	12.8		-	-	*			
PCB-199	1.23e+06	0.92	y	47:42	0.74	322		-	-	*			
PCB-203	1.54e+06	0.93	y	47:57	0.85	350		-	-	*		Co-elute PCB 196	
PCB-196	1.54e+06	0.93	y	47:57	0.85	350		-	-	*		Co-elute PCB 203	
13C-PCB-202	1.04e+07	0.92	y	44:48	0.48	1990					99.5	1.06e+06	1.17e+06
13C-PCB-178	1.33e+07	1.10	y	42:20	0.61	2000					99.9	1.51e+06	1.40e+06
13C-PCB-138	2.18e+07	1.30	y	41:34	-	15.7							
PCB-195	1.07e+06	0.90	y	49:03	0.90	85.0		-	-	*			
PCB-194	2.23e+06	0.91	y	49:52	0.92	174		-	-	*			
PCB-205	1.69e+05	0.86	y	50:07	1.19	10.2		-	-	*			
13C-PCB-205	2.80e+07	0.91	y	50:06	1.25	2140					107	3.62e+06	4.08e+06
PCB-208	3.35e+05	1.36	y	49:09	0.99	25.7		-	-	*			
13C-PCB-208	2.64e+07	0.82	y	49:08	1.27	1980					99.1	3.64e+06	4.42e+06
PCB-207	1.60e+05	1.41	y	49:27	1.01	13.9		-	-	*			
PCB-206	9.07e+05	1.34	y	51:18	0.96	97.5		-	-	*			
13C-PCB-206	1.93e+07	0.81	y	51:17	0.93	1970					98.4	2.36e+06	3.06e+06
PCB-209	4.56e+05	1.13	y	52:30	1.13	37.6		-	-	*			
13C-PCB-209	2.15e+07	1.20	y	52:28	1.04	1980					98.9	3.82e+06	3.19e+06
13C-PCB-194	2.10e+07	0.91	y	49:51	-	15.6							

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

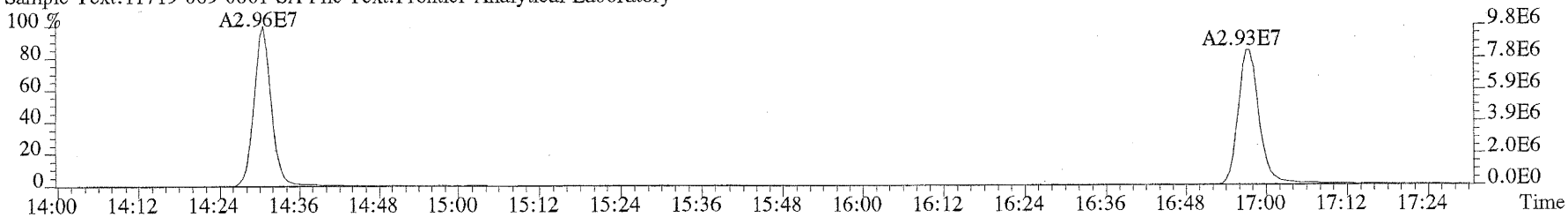
File:31JUL18Z #1-784 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:7 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



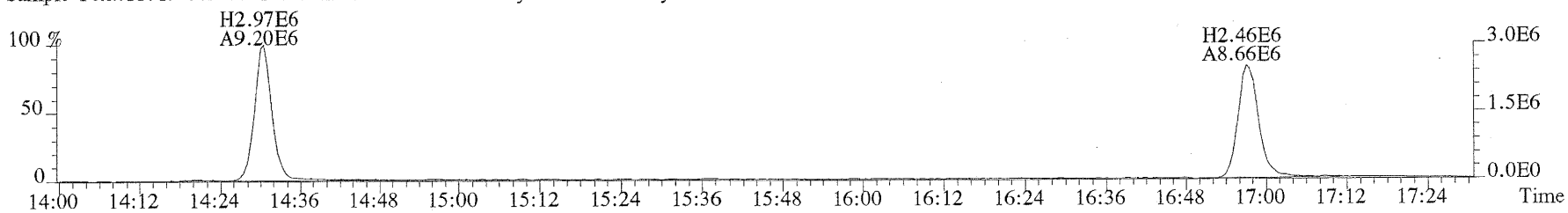
File:31JUL18Z #1-784 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:7 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



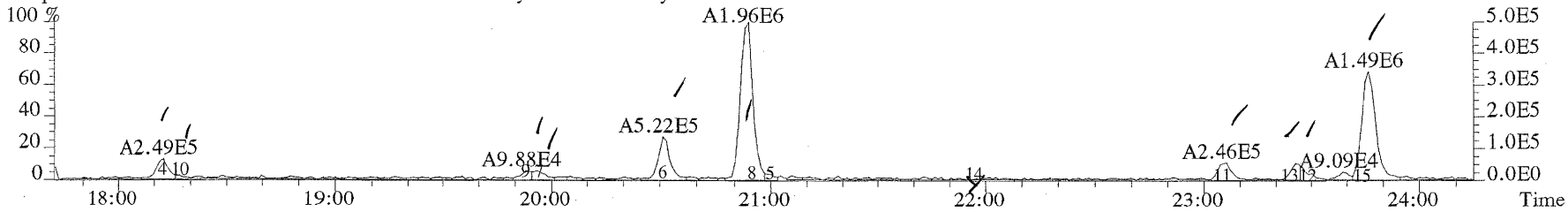
File:31JUL18Z #1-784 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:7 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



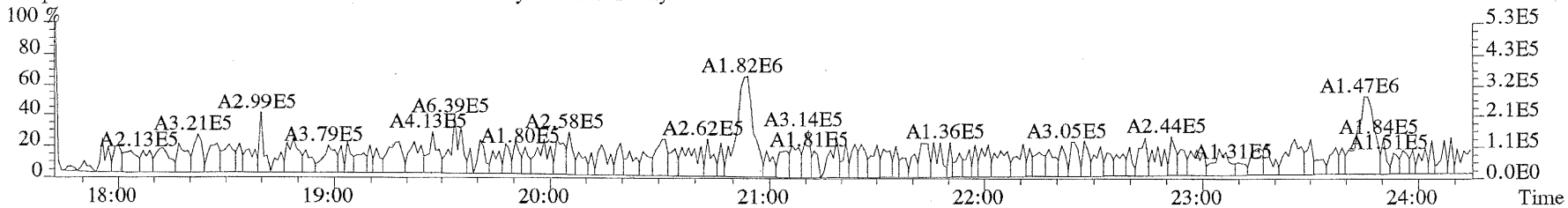
File:31JUL18Z #1-784 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:7 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



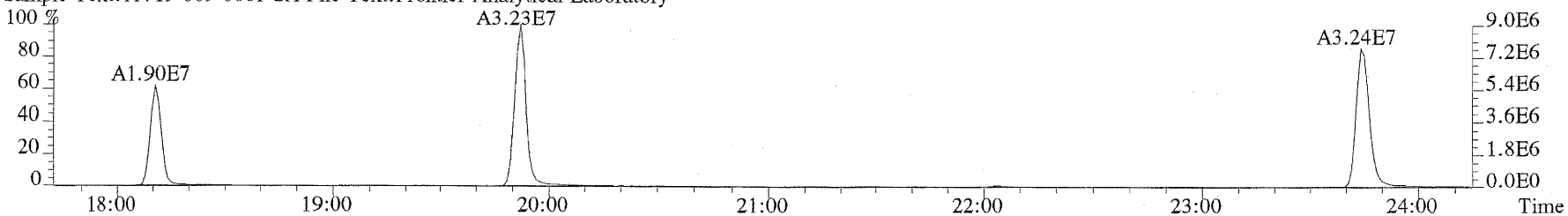
File:31JUL18Z #1-520 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



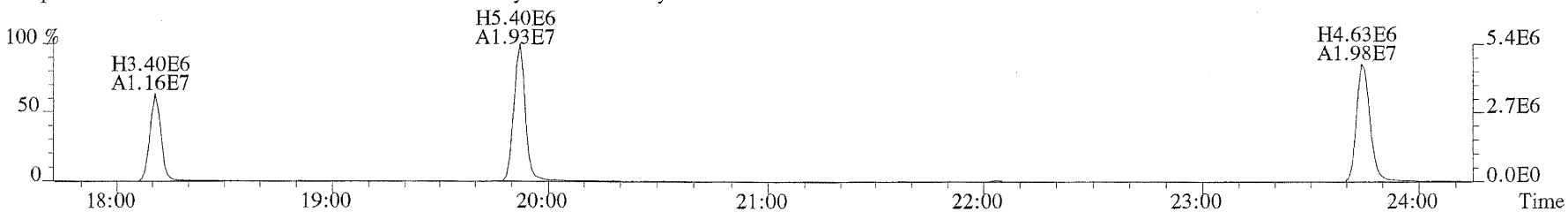
File:31JUL18Z #1-520 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



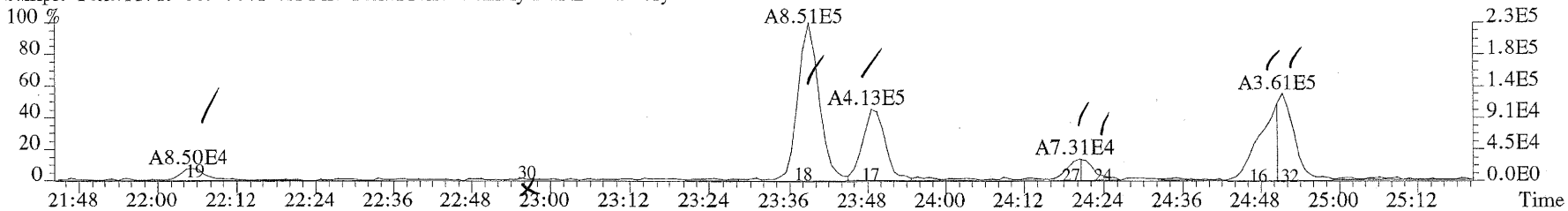
File:31JUL18Z #1-520 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



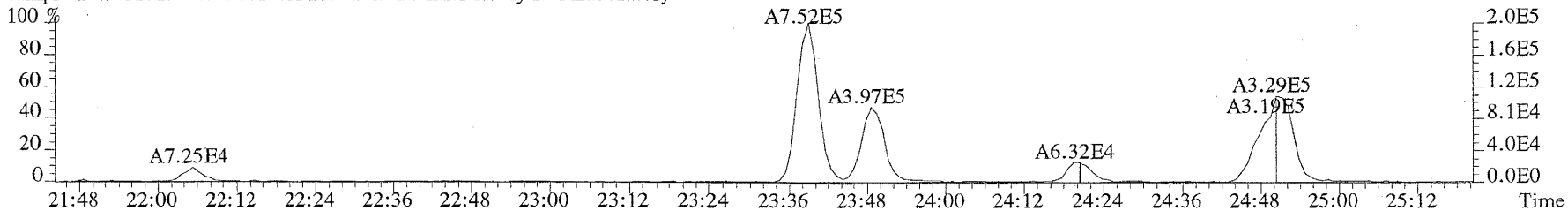
File:31JUL18Z #1-520 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



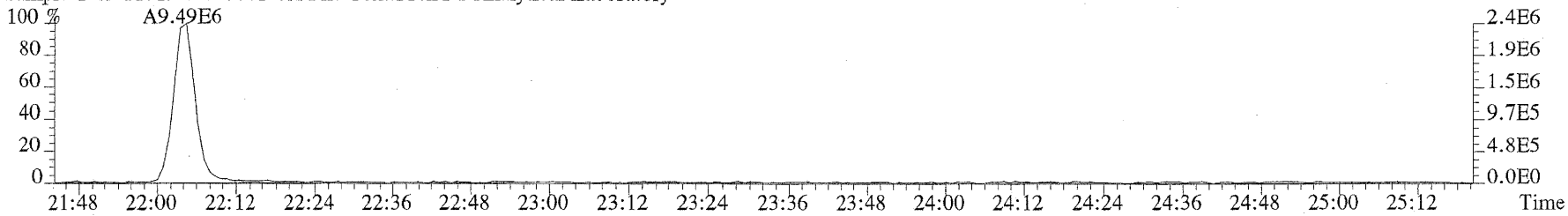
File:31JUL18Z #1-520 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



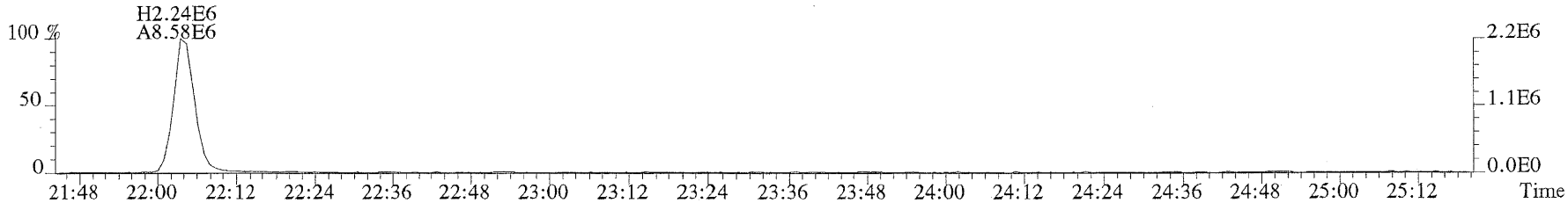
File:31JUL18Z #1-520 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



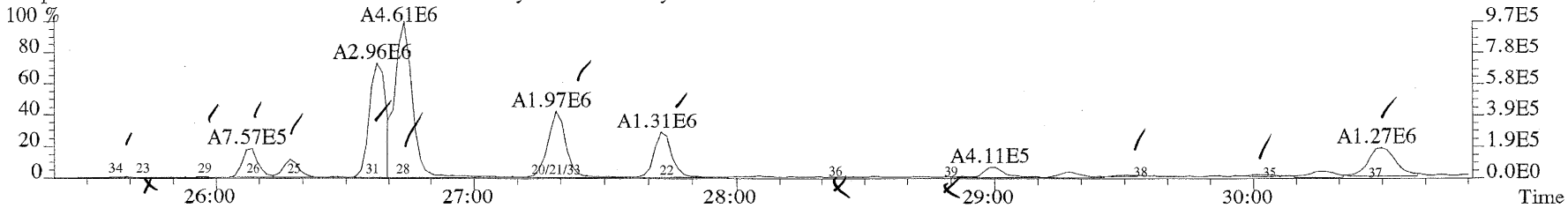
File:31JUL18Z #1-520 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



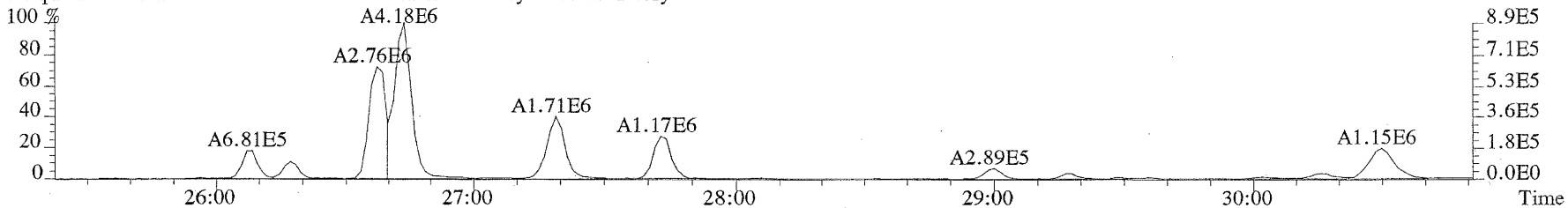
File:31JUL18Z #1-520 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



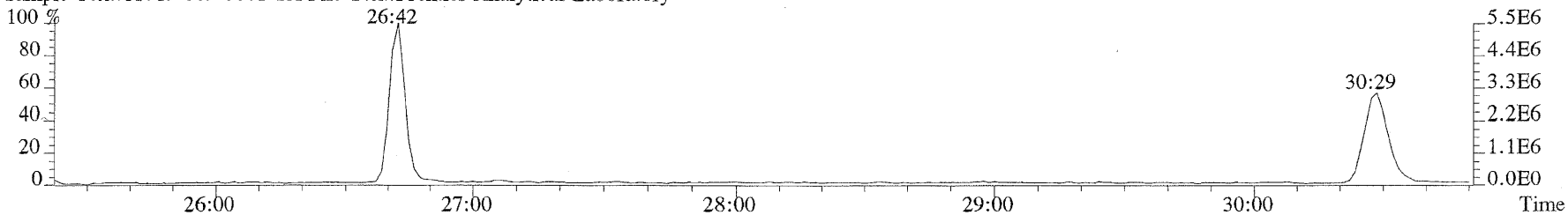
File:31JUL18Z #1-401 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



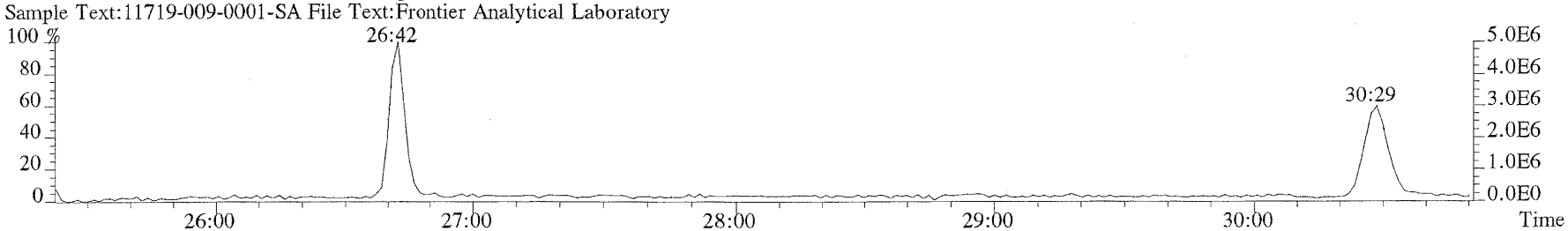
File:31JUL18Z #1-401 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



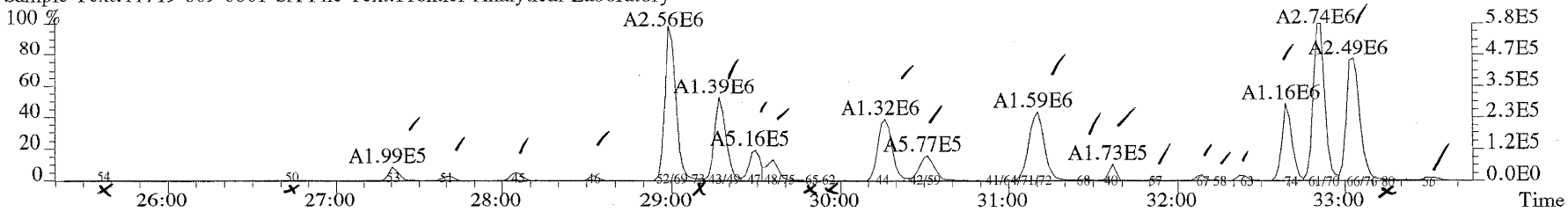
File:31JUL18Z #1-401 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



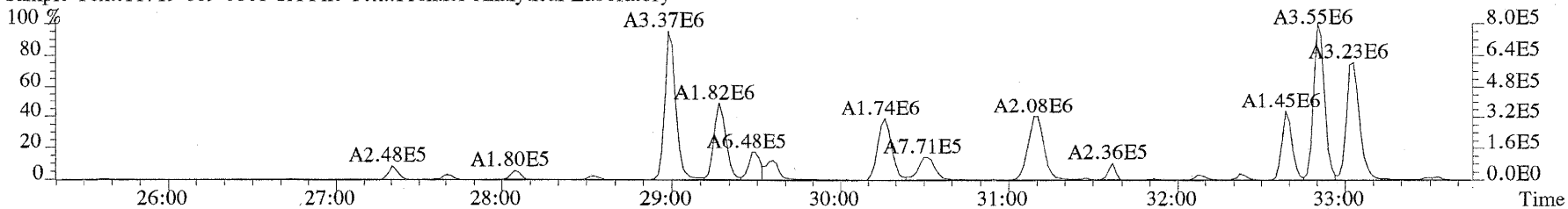
File:31JUL18Z #1-401 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



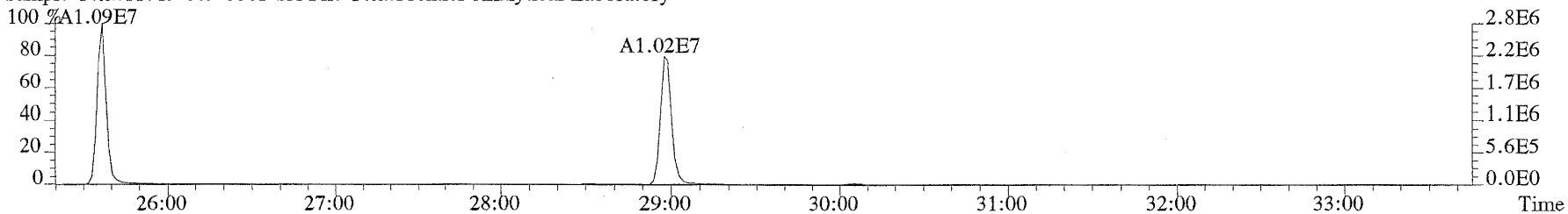
File:31JUL18Z #1-401 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



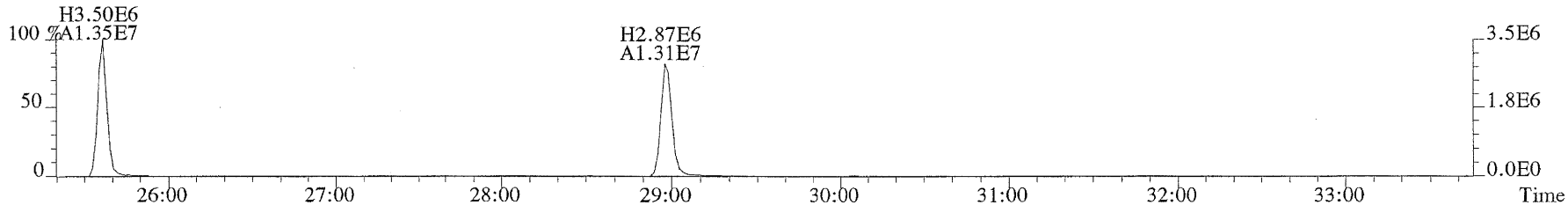
File:31JUL18Z #1-401 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



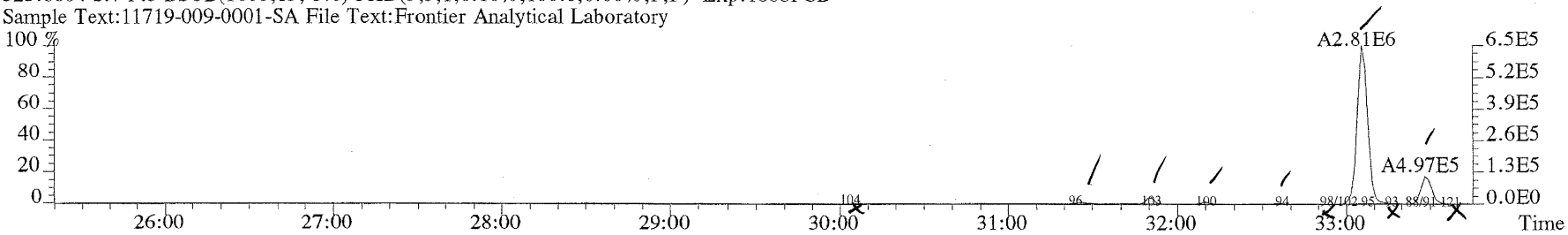
File:31JUL18Z #1-401 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



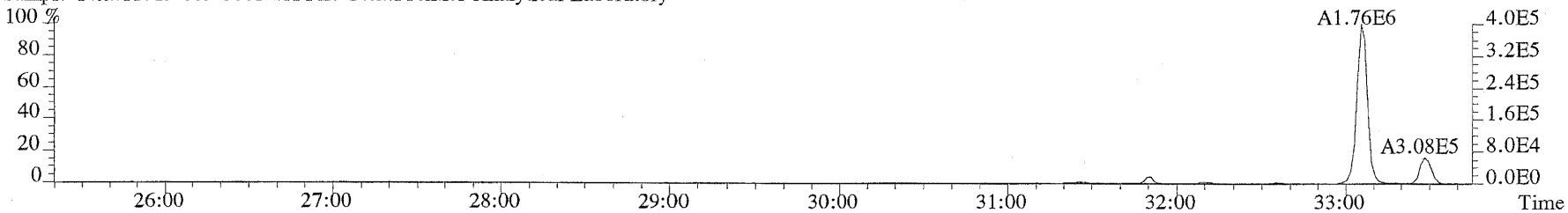
File:31JUL18Z #1-401 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



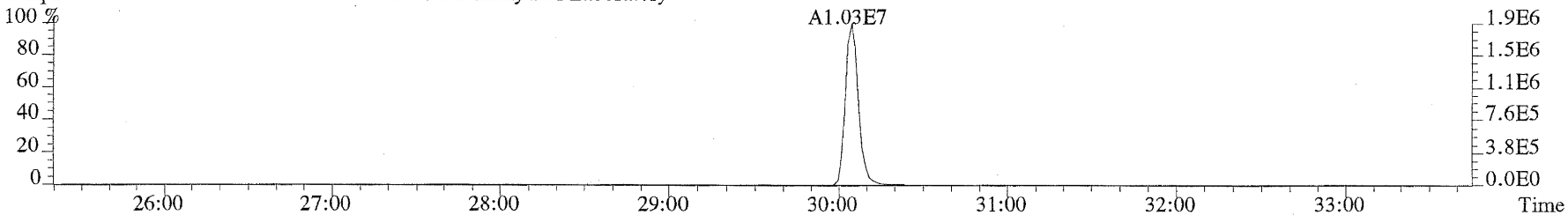
File:31JUL18Z #1-401 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



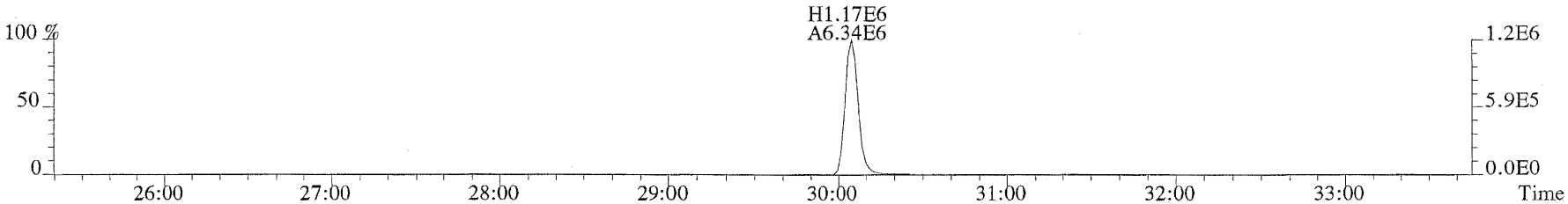
File:31JUL18Z #1-401 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



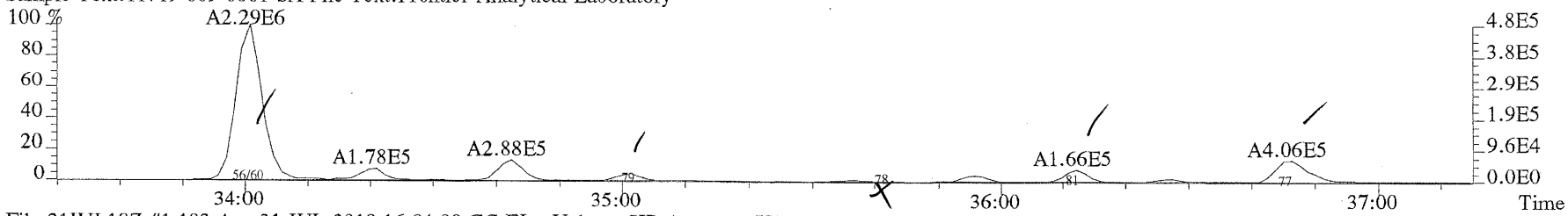
File:31JUL18Z #1-401 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



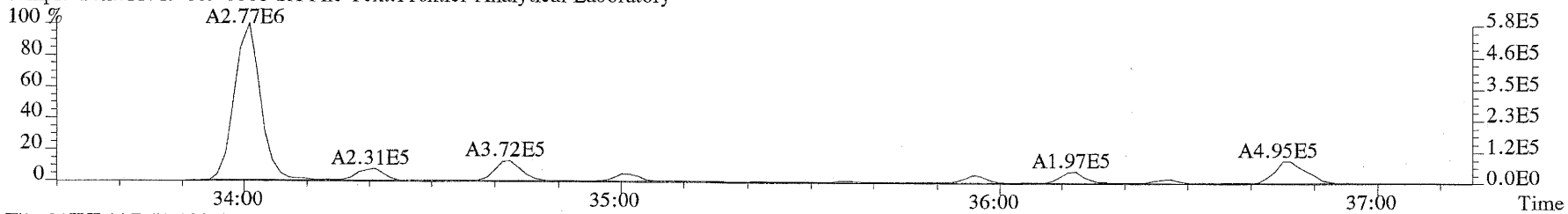
File:31JUL18Z #1-401 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



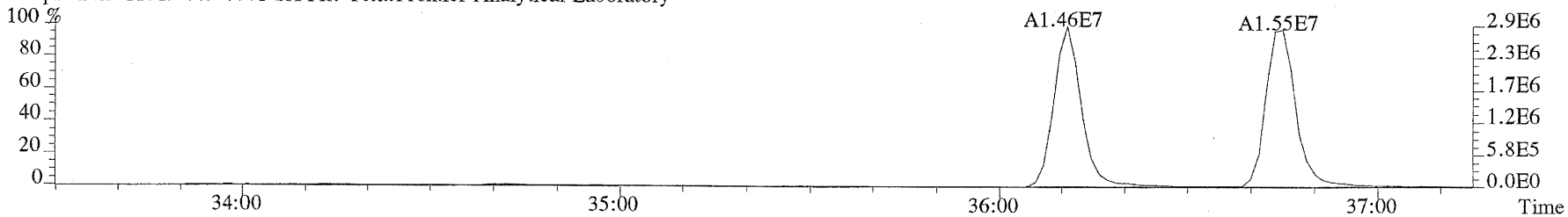
File:31JUL18Z #1-183 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



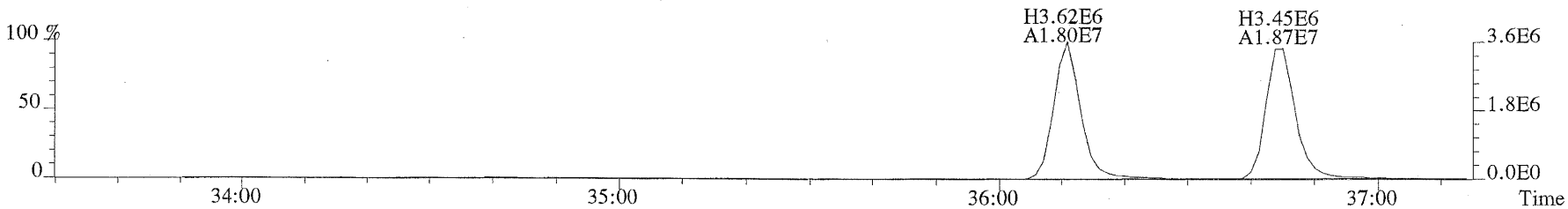
File:31JUL18Z #1-183 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



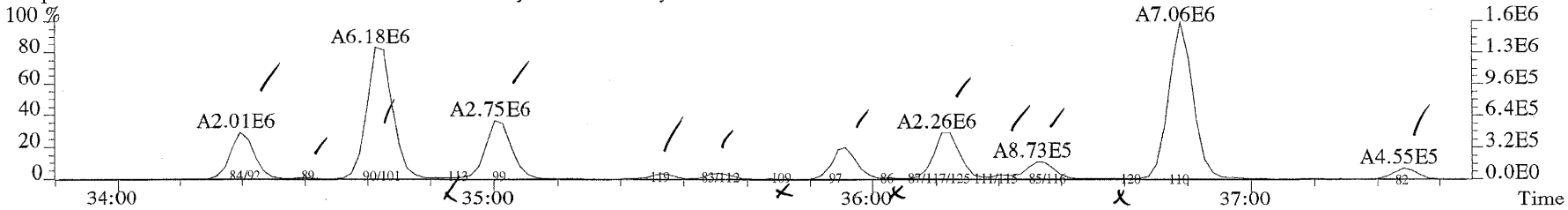
File:31JUL18Z #1-183 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



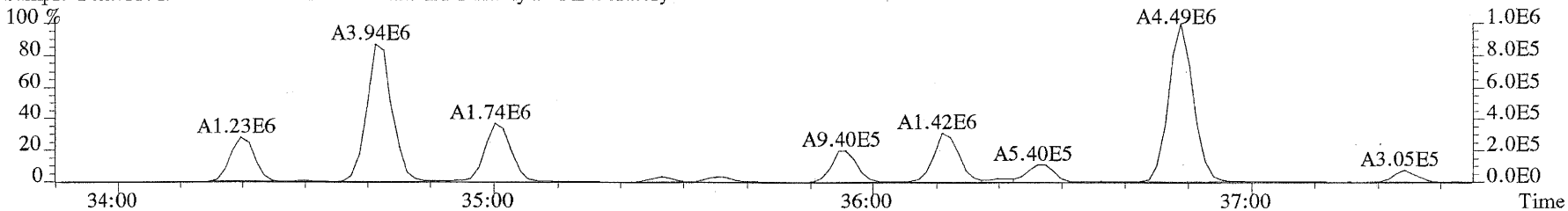
File:31JUL18Z #1-183 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



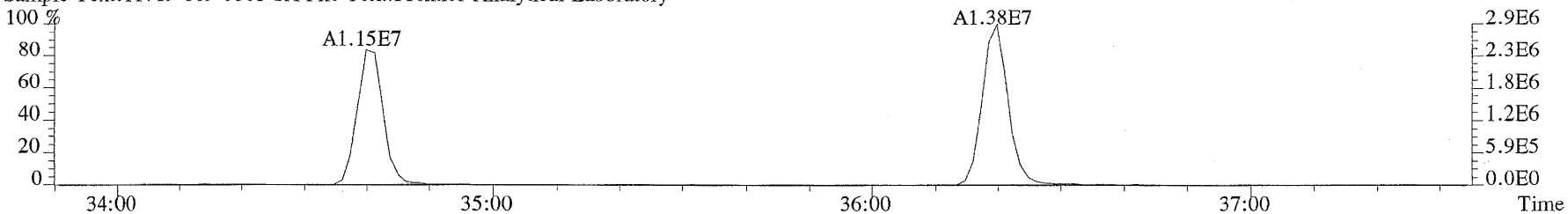
File:31JUL18Z #1-183 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-183 Acq:31-JUL-2018 16:04:08 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:11719-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-183 Acq:31-JUL-2018 16:04:08 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:11719-009-0001-SA File Text:Frontier Analytical Laboratory



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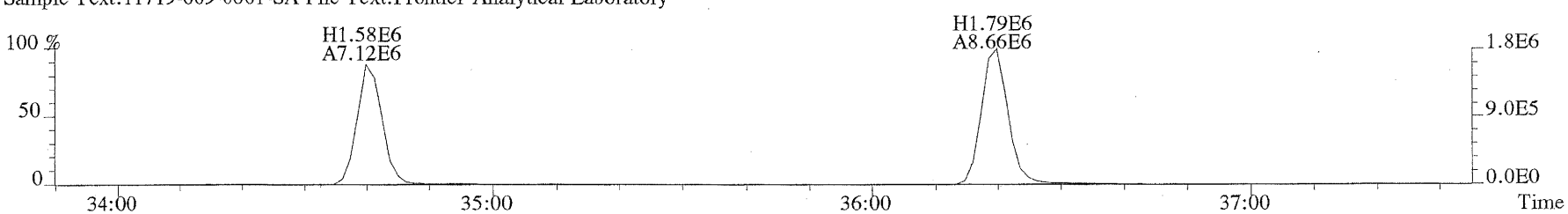
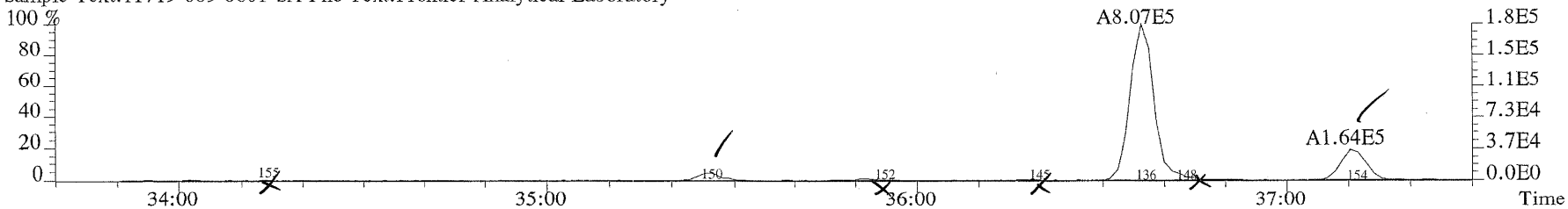
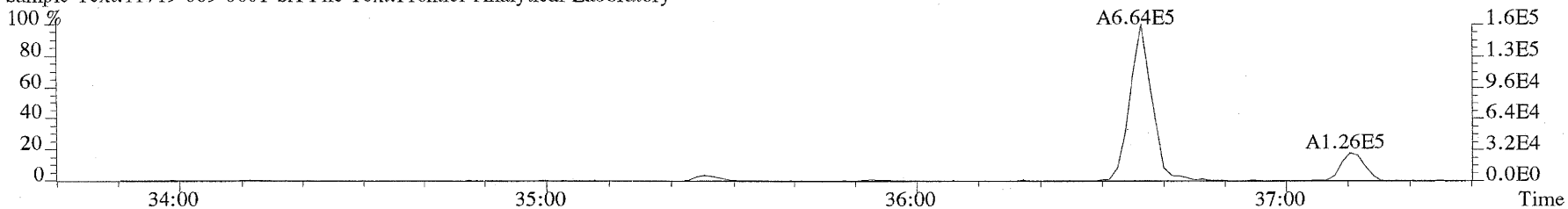
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



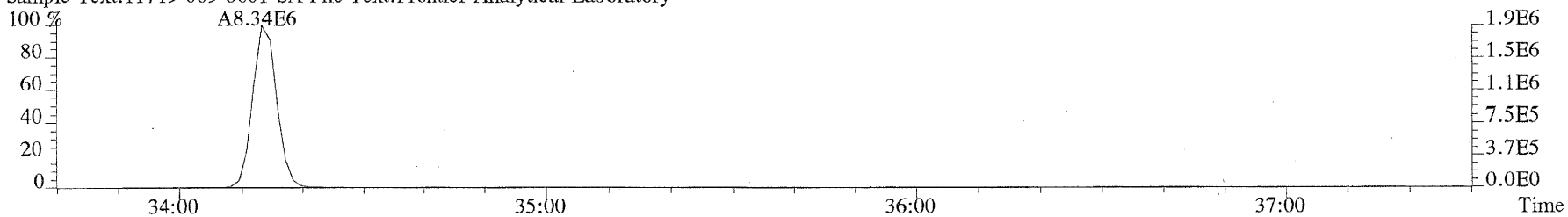
File:31JUL18Z #1-183 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



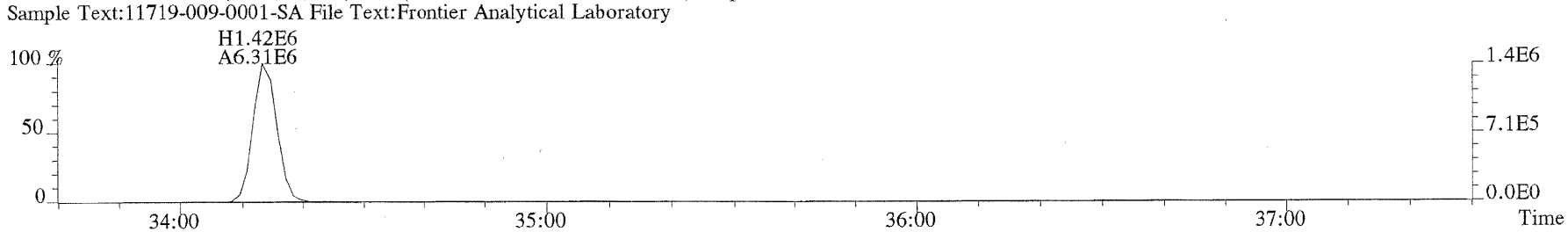
File:31JUL18Z #1-183 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



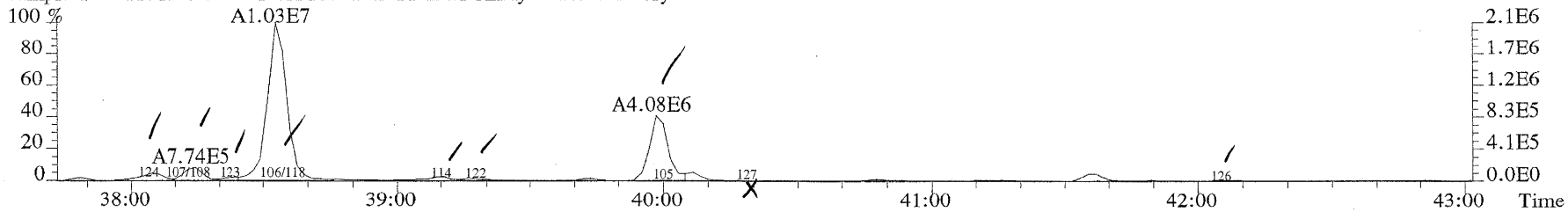
File:31JUL18Z #1-183 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



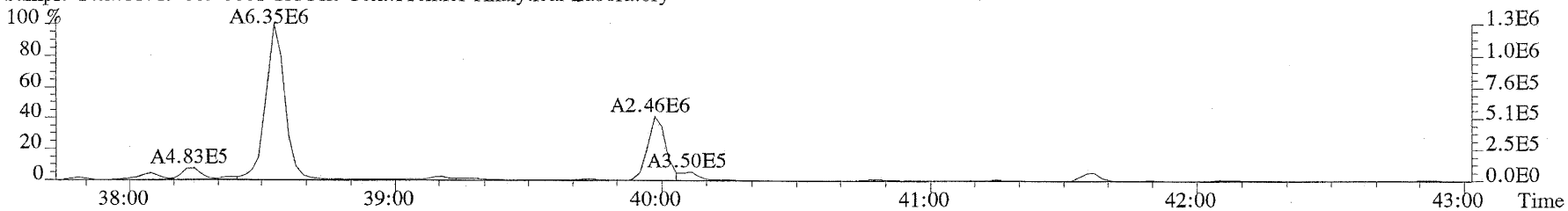
File:31JUL18Z #1-183 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



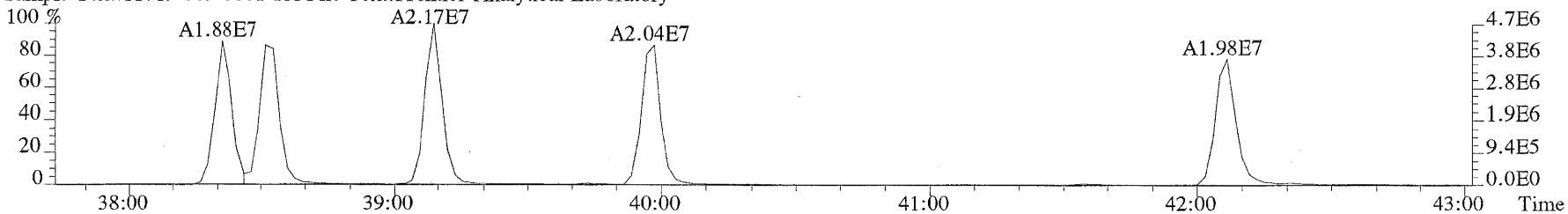
File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



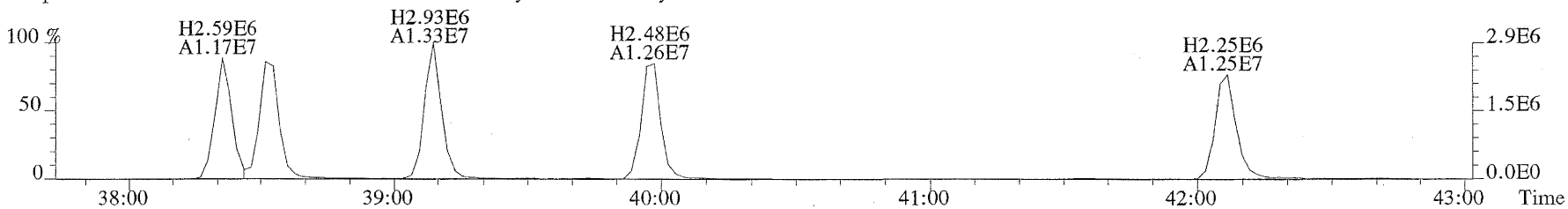
File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



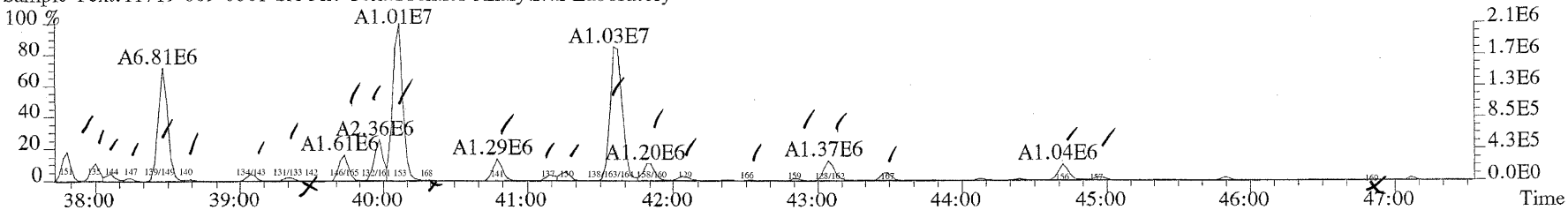
File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



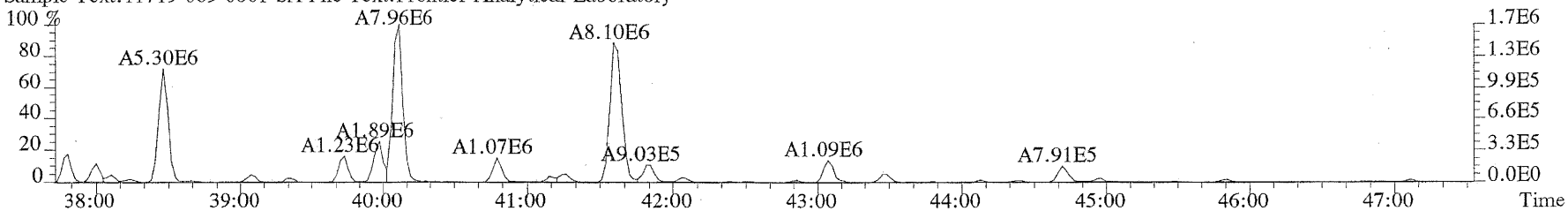
File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



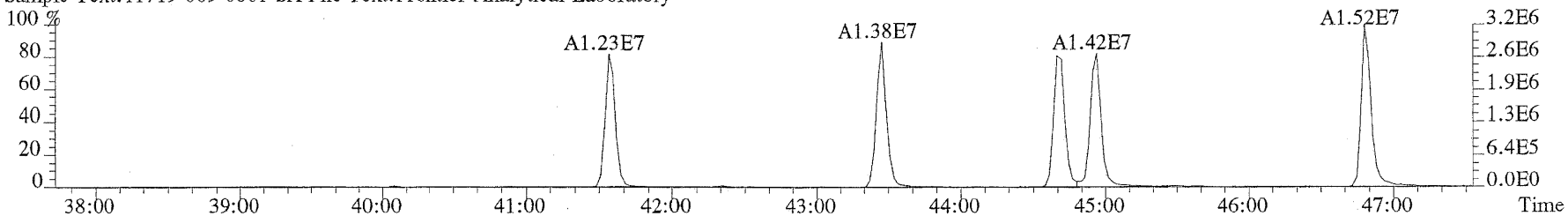
File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



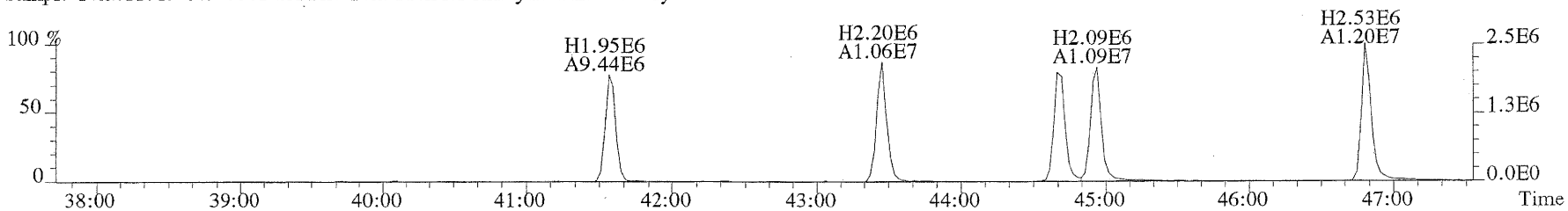
File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



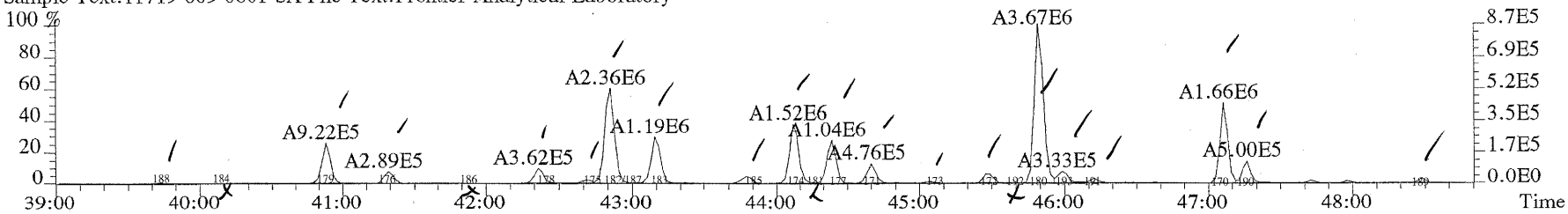
File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



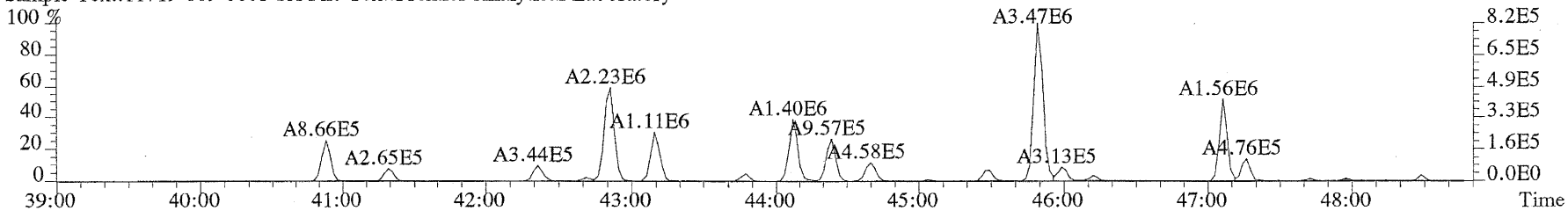
File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



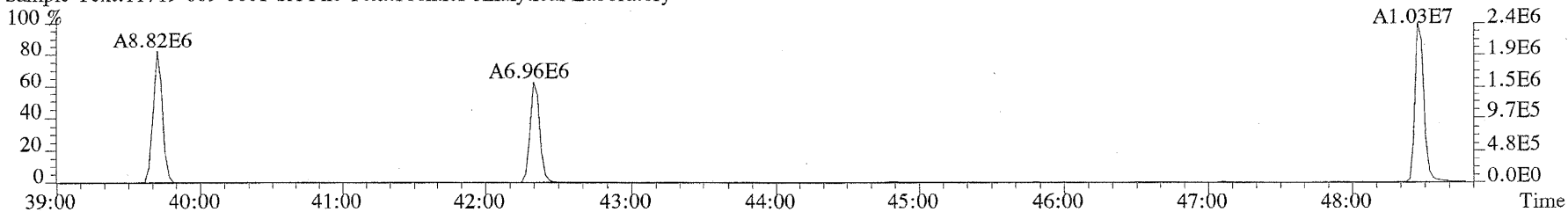
File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



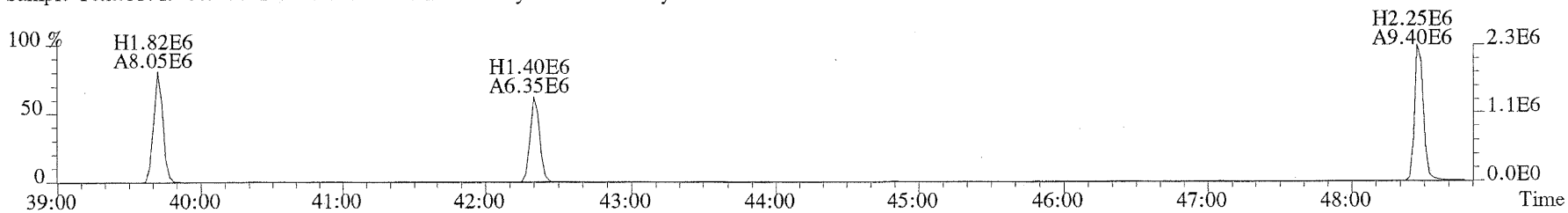
File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



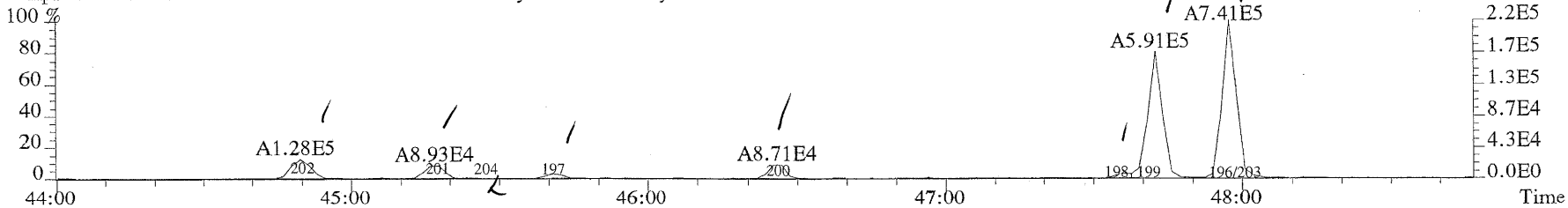
File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 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:11719-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
427.7635 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:11719-009-0001-SA File Text:Frontier Analytical Laboratory



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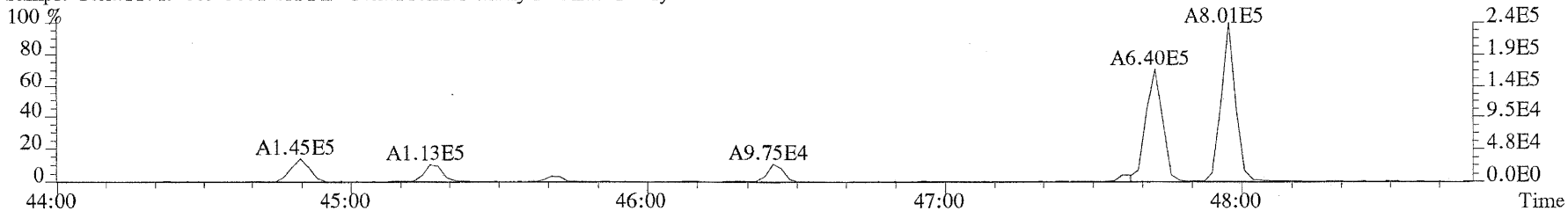
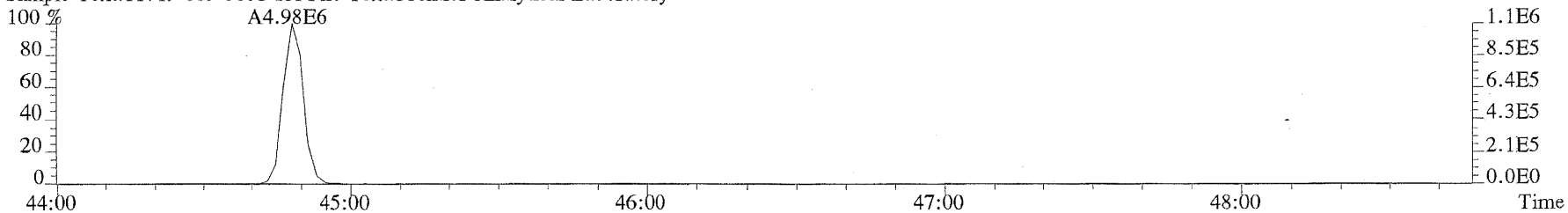
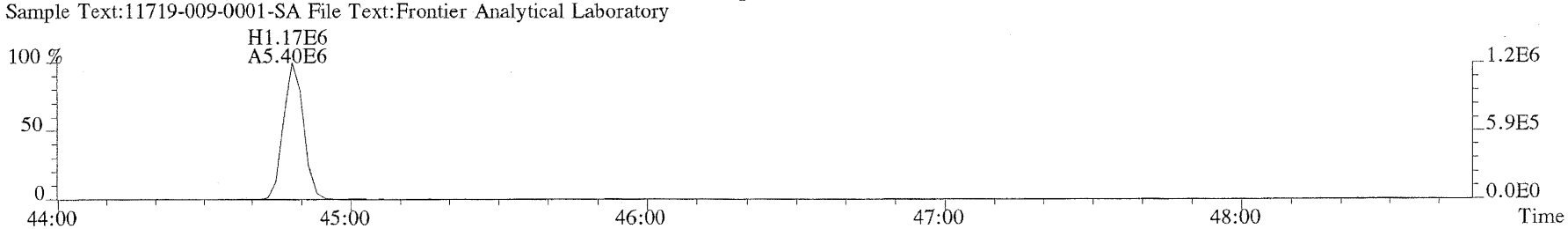
429.7606 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



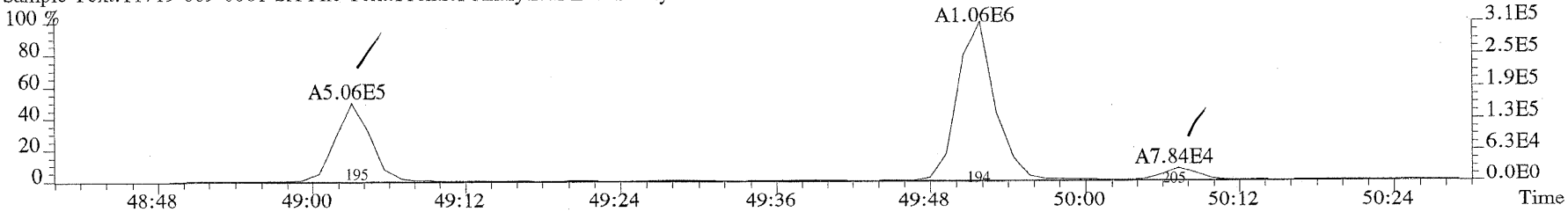
File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
441.8008 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:11719-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
427.7635 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:11719-009-0001-SA File Text:Frontier Analytical Laboratory



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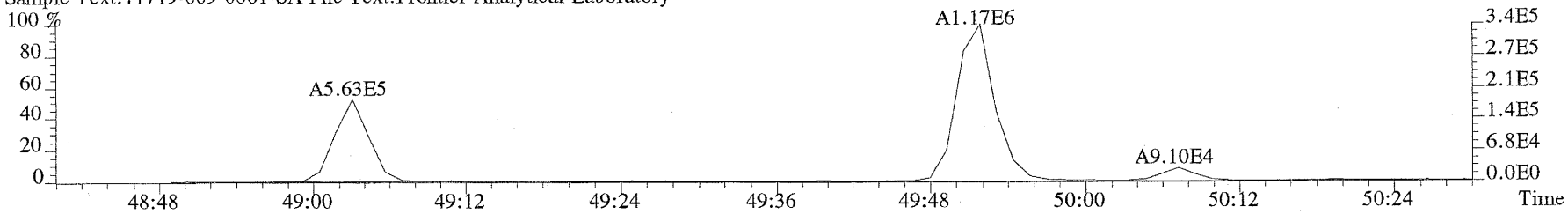
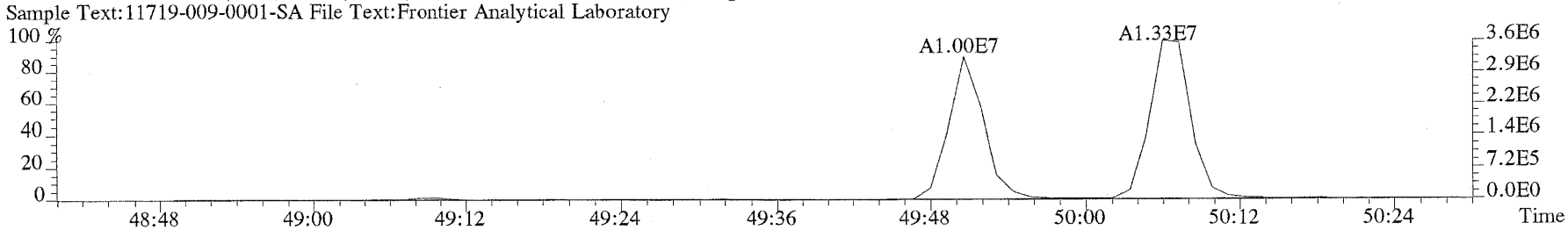
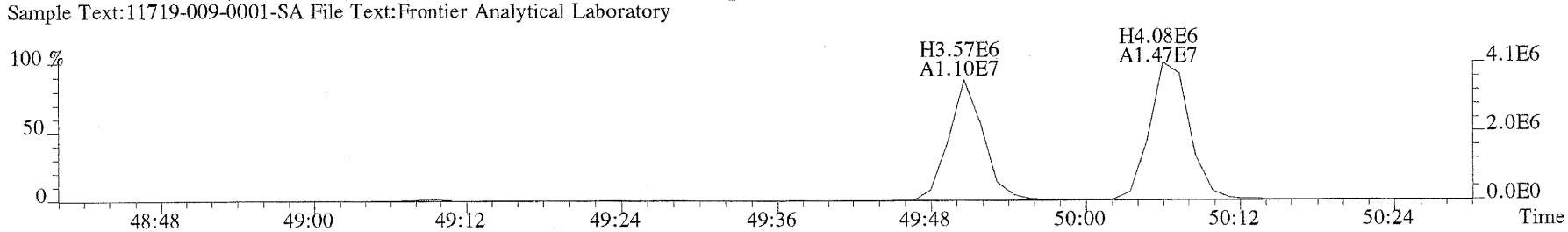
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



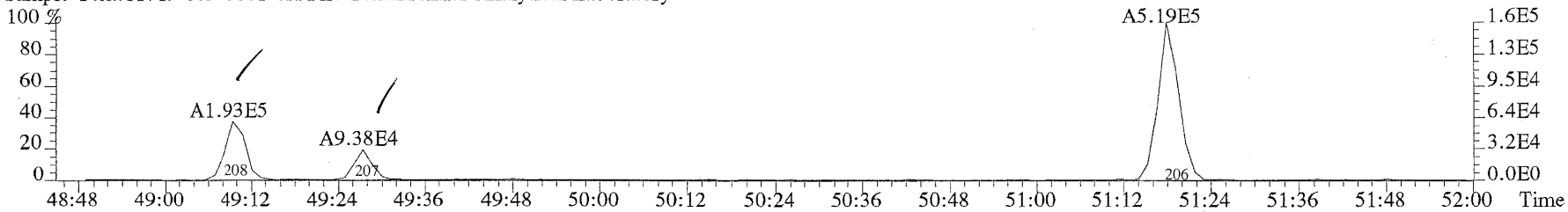
File:31JUL18Z #1-314 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



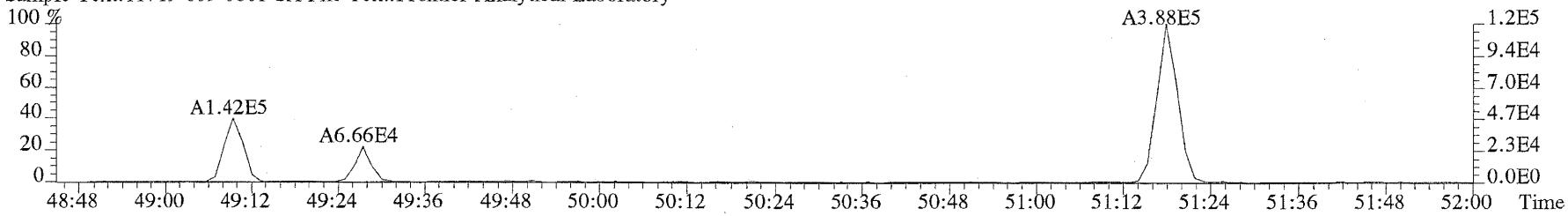
File:31JUL18Z #1-314 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



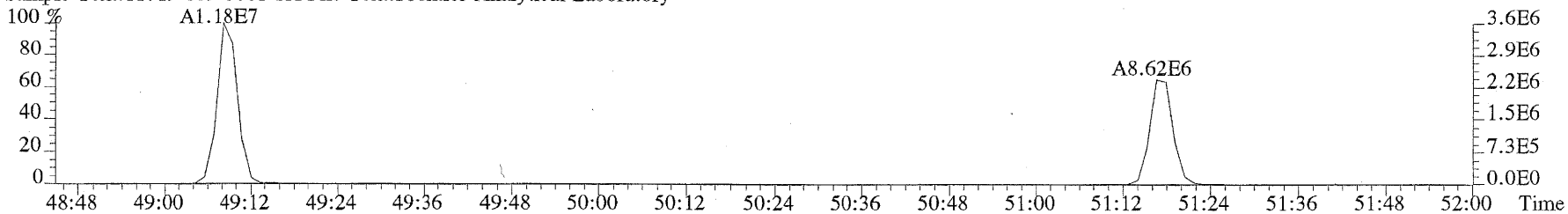
File:31JUL18Z #1-314 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



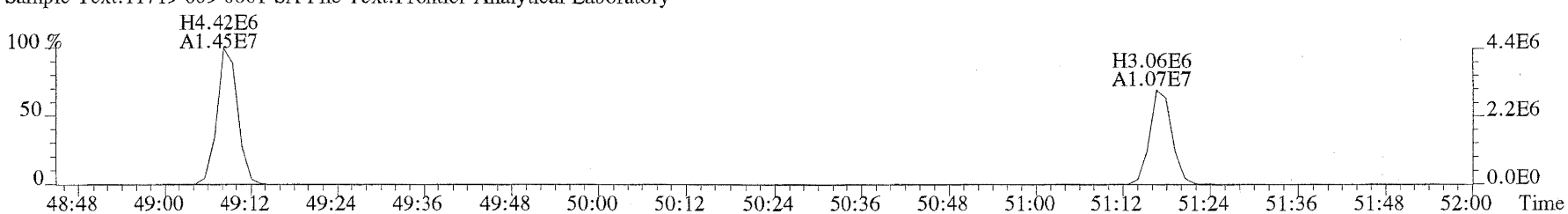
File:31JUL18Z #1-314 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



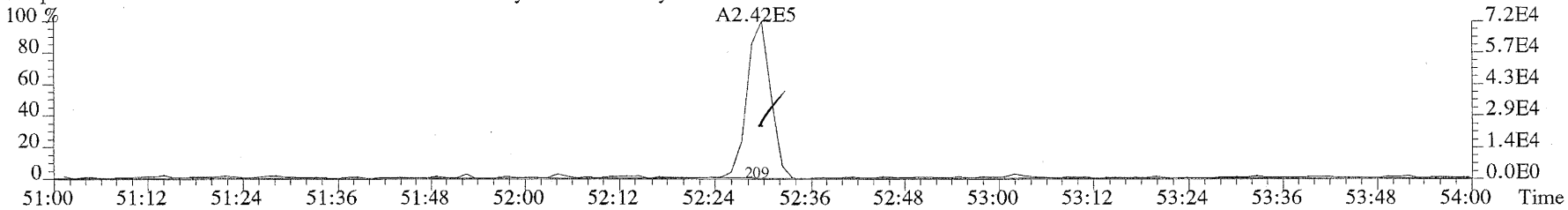
File:31JUL18Z #1-314 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



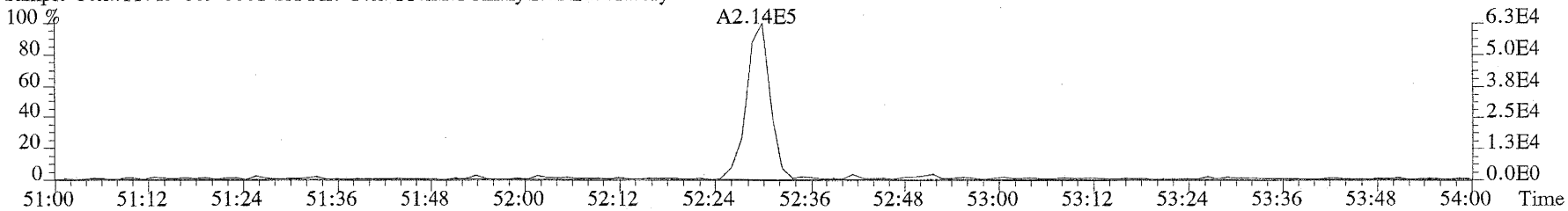
File:31JUL18Z #1-314 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



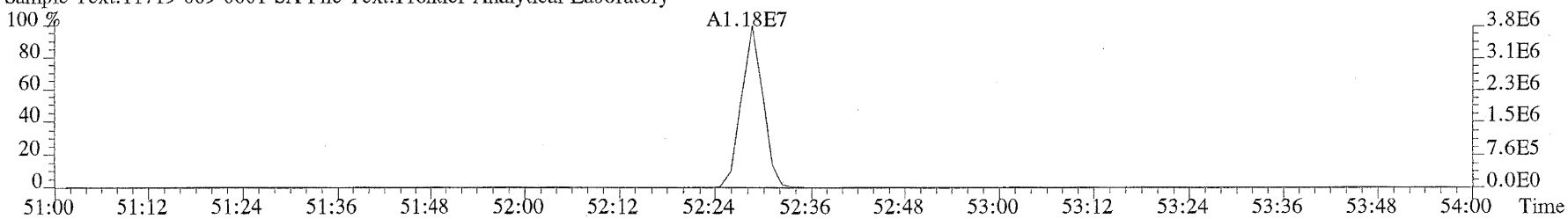
File:31JUL18Z #1-314 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



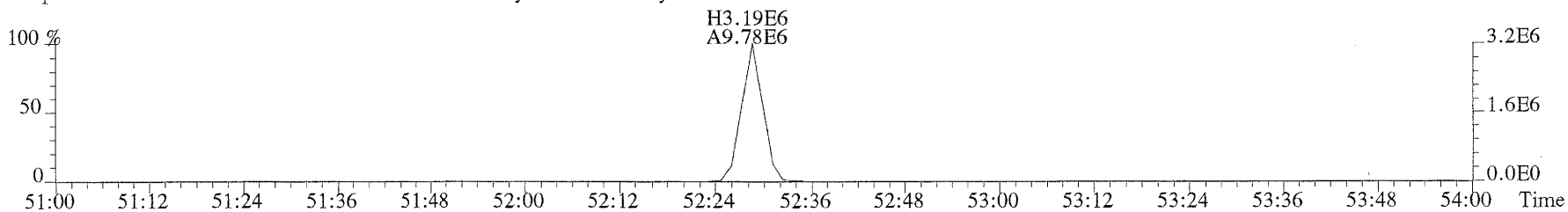
File:31JUL18Z #1-314 Acq:31-JUL-2018 16:04:08 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 16:04:08 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:11719-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 16:04:08 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:11719-009-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-010-0001-SA Filename: 31JUL18Z Sam:8 Acquired: 31-JUL-18 17:02:49 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SC-ENR+AC-CA-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	2.12e+06	3.16 y	14:31	1.28	82.3		-	-	*			
13C-PCB-1	4.02e+07	3.23 y	14:30	0.83	1870					93.4	1.00e+07	3.06e+06
PCB-2	2.68e+05	3.18 y	16:45	1.15	12.0		-	-	*			
PCB-3	1.13e+06	3.23 y	16:58	1.27	48.4		-	-	*			
13C-PCB-3	3.69e+07	3.37 y	16:57	0.83	1700					85.1	7.87e+06	2.36e+06
PCB-4	7.79e+05	1.33 y	18:11	1.44	33.9		-	-	*			
PCB-10	1.23e+05	1.41 y	18:16	1.35	4.39		-	-	*			
13C-PCB-4	3.19e+07	1.64 y	18:10	0.68	1790					89.4	5.87e+06	3.61e+06
PCB-9	3.65e+05	1.51 y	19:54	1.44	12.1		-	-	*			
PCB-7	4.01e+05	1.46 y	19:56	1.55	12.4		-	-	*			
PCB-6	1.23e+06	1.53 y	20:31	1.44	41.0		-	-	*			
PCB-8	4.33e+06	1.39 y	20:53	1.45	144		-	-	*			
PCB-5	2.08e+05	1.56 y	20:58	1.46	6.82		-	-	*			
PCB-14	*	* n	NotFnd	1.36	*		630	1750	0.783			
PCB-11	4.39e+05	1.48 y	23:05	1.31	16.1		-	-	*			
PCB-13	4.07e+05	1.45 y	23:25	1.38	14.1		-	-	*			
PCB-12	3.25e+05	1.45 y	23:27	1.44	10.8		-	-	*			
PCB-15	2.39e+06	1.45 y	23:45	1.38	67.4		-	-	*			
13C-PCB-15	5.15e+07	1.63 y	23:44	1.01	1950					97.6	7.80e+06	4.81e+06
PCB-19	1.38e+05	1.17 y	22:04	1.31	12.4		-	-	*			
PCB-30	*	* n	NotFnd	1.68	*		680	740	0.966			
PCB-18	1.52e+06	1.16 y	23:38	1.25	143		-	-	*			
PCB-17	7.80e+05	1.14 y	23:48	1.37	66.8		-	-	*			
PCB-27	1.24e+05	1.16 y	24:19	1.68	8.65		-	-	*			
PCB-24	1.27e+05	1.04 y	24:20	1.74	8.58		-	-	*			
PCB-16	4.88e+05	1.10 y	24:48	1.49	38.7		-	-	*			
PCB-32	6.84e+05	1.13 y	24:51	1.50	53.5		-	-	*			
13C-PCB-19	1.70e+07	1.12 y	22:03	0.35	1850					92.4	2.29e+06	2.08e+06
13C-PCB-9	5.21e+07	1.69 y	19:52	-	14.0							
PCB-34	6.01e+04	1.11 y	25:35	1.40	2.13	J	-	-	*			
PCB-23	*	* n	NotFnd	1.50	*		634	553	0.654			
PCB-29	4.76e+04	1.18 y	25:54	1.31	1.79	J	-	-	*			
PCB-26	1.13e+06	1.07 y	26:08	1.25	44.6		-	-	*			
PCB-25	7.28e+05	1.10 y	26:17	1.60	22.5		-	-	*			
PCB-31	4.91e+06	1.11 y	26:37	1.21	201		-	-	*			
PCB-28	6.85e+06	1.09 y	26:43	1.69	201		-	-	*			
PCB-20	2.94e+06	1.11 y	27:19	1.36	107		-	-	*		Co-elute PCB 21/33	
PCB-21	2.94e+06	1.11 y	27:19	1.36	107		-	-	*		Co-elute PCB 20/33	
PCB-33	2.94e+06	1.11 y	27:19	1.36	107		-	-	*		Co-elute PCB 20/21	
PCB-22	1.94e+06	1.15 y	27:43	1.41	68.2		-	-	*			
PCB-36	*	* n	NotFnd	1.20	*		634	553	0.819			
PCB-39	*	* n	NotFnd	1.05	*		634	553	0.932			
PCB-38	*	* n	NotFnd	1.39	*		634	553	0.706			
PCB-35	1.10e+05	1.13 y	30:00	1.12	4.84		-	-	*			
PCB-37	1.68e+06	1.14 y	30:28	1.40	59.8		-	-	*			
13C-PCB-37	4.04e+07	1.01 y	30:28	1.54	2320					116	3.18e+06	2.89e+06

PCB-54	*	*	n	NotFnd	1.13	*		424	556	0.755			
PCB-50	*	*	n	NotFnd	0.72	*		424	556	1.19			
PCB-53	3.87e+05	0.77	y	27:20	0.76	42.2		-	-	*			
PCB-51	1.55e+05	0.77	y	27:39	0.76	17.0		-	-	*			
PCB-45	2.82e+05	0.77	y	28:04	0.63	37.1		-	-	*			
PCB-46	1.10e+05	0.80	y	28:31	0.65	14.1		-	-	*			
PCB-52	4.03e+06	0.78	y	28:59	0.92	366		-	-	*	Co-elute PCB 69		
PCB-69	4.03e+06	0.78	y	28:59	0.92	366		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	0.87	*		424	556	0.981			
PCB-43	2.38e+06	0.77	y	29:16	0.72	275		-	-	*	Co-elute PCB 49		
PCB-49	2.38e+06	0.77	y	29:16	0.72	275		-	-	*	Co-elute PCB 43		
PCB-47	9.46e+05	0.74	y	29:28	0.84	94.2		-	-	*			
PCB-48	6.75e+05	0.76	y	29:34	0.96	58.8		-	-	*	Co-elute PCB 75		
PCB-75	6.75e+05	0.76	y	29:34	0.96	58.8		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.01	*		424	556	0.844			
PCB-62	*	*	n	NotFnd	0.97	*		424	556	0.882			
PCB-44	2.08e+06	0.75	y	30:14	0.66	261		-	-	*			
PCB-42	1.09e+06	0.76	y	30:31	0.85	107		-	-	*	Co-elute PCB 59		
PCB-59	1.09e+06	0.76	y	30:31	0.85	107		-	-	*	Co-elute PCB 42		
PCB-72	2.91e+06	0.77	y	31:04	0.92	265		-	-	*	Co-elute PCB 41/71/64		
PCB-41	2.91e+06	0.77	y	31:04	0.92	265		-	-	*	Co-elute PCB 72/71/64		
PCB-71	2.91e+06	0.77	y	31:04	0.92	265		-	-	*	Co-elute PCB 72/41/64		
PCB-64	2.91e+06	0.77	y	31:04	0.92	265		-	-	*	Co-elute PCB 72/41/71		
PCB-68	5.58e+04	0.68	y	31:16	1.03	4.52		-	-	*			
PCB-40	4.13e+05	0.80	y	31:26	0.59	58.3		-	-	*			
PCB-57	2.93e+04	0.72	y	31:48	0.97	2.53	J	-	-	*			
PCB-67	1.46e+05	0.87	y	32:06	0.98	12.4		-	-	*			
PCB-58	2.13e+04	0.82	y	32:11	0.90	1.98	J	-	-	*			
PCB-63	1.66e+05	0.76	y	32:21	1.02	13.5		-	-	*			
PCB-74	1.88e+06	0.76	y	32:37	1.13	139		-	-	*			
PCB-61	4.53e+06	0.79	y	32:49	1.07	352		-	-	*	Co-elute PCB 70		
PCB-70	4.53e+06	0.79	y	32:49	1.07	352		-	-	*	Co-elute PCB 61		
PCB-76	4.33e+06	0.79	y	33:01	1.00	362		-	-	*	Co-elute PCB 66		
PCB-66	4.33e+06	0.79	y	33:01	1.00	362		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.10	*		424	556	0.777			
PCB-55	1.34e+05	0.86	y	33:28	1.07	10.4		-	-	*			
13C-PCB-54	2.40e+07	0.79	y	25:36	1.28	1660					82.8	2.55e+06	3.18e+06
PCB-104	*	*	n	NotFnd	1.27	*		260	264	0.775			
PCB-96	4.03e+04	1.67	y	31:18	1.13	4.77		-	-	*			
PCB-103	7.88e+04	1.63	y	31:47	0.97	10.9		-	-	*			
PCB-100	4.12e+04	1.46	y	32:08	0.98	5.65		-	-	*			
PCB-94	2.14e+04	1.44	y	32:33	0.87	3.30	J	-	-	*			
PCB-98	*	*	n	NotFnd	1.02	*		260	264	0.969	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.02	*		260	264	0.969	Co-elute PCB 98		
PCB-95	3.07e+06	1.63	y	33:04	0.88	467		-	-	*			
PCB-93	*	*	n	NotFnd	0.81	*		260	264	1.21			
PCB-88	6.14e+05	1.56	y	33:27	0.91	90.7		-	-	*	Co-elute PCB 91		
PCB-91	6.14e+05	1.56	y	33:27	0.91	90.7		-	-	*	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.12	*		260	264	0.880			
13C-PCB-104	1.49e+07	1.57	y	30:04	0.76	1730					86.7	1.61e+06	1.04e+06
13C-PCB-28	4.65e+07	1.07	y	26:42	1.88	2190					110	5.32e+06	4.76e+06
13C-PCB-52	2.26e+07	0.78	y	28:57	-	16.7							

PCB-56	4.04e+06	0.84	y	33:59	1.26	190		-	-	*		Co-elute PCB 60	
PCB-60	4.04e+06	0.84	y	33:59	1.26	190		-	-	*		Co-elute PCB 56	
PCB-79	1.58e+05	0.76	y	35:00	1.19	7.93		-	-	*			
PCB-78	*	*	n	NotFnd	1.13	*		580	760	0.914			
PCB-81	2.59e+05	0.77	y	36:11	1.25	12.5		-	-	*			
13C-PCB-81	3.32e+07	0.82	y	36:09	1.79	2090					104	2.88e+06	3.55e+06
PCB-77	5.59e+05	0.87	y	36:46	1.17	28.0		-	-	*			
13C-PCB-77	3.42e+07	0.82	y	36:43	1.72	2230					112	2.96e+06	3.60e+06
PCB-155	*	*	n	NotFnd	1.21	*		300	236	0.657			
PCB-150	2.33e+04	1.34	y	35:25	1.07	2.99	J	-	-	*			
PCB-152	*	*	n	NotFnd	1.04	*		300	236	0.768			
PCB-145	*	*	n	NotFnd	1.09	*		300	236	0.734			
PCB-136	1.04e+06	1.25	y	36:35	0.97	147		-	-	*			
PCB-148	*	*	n	NotFnd	0.86	*		300	236	0.928			
PCB-154	1.64e+05	1.37	y	37:10	1.02	22.2		-	-	*			
13C-PCB-155	1.46e+07	1.33	y	34:12	0.83	1970					98.3	1.92e+06	1.44e+06
13C-PCB-111	2.32e+07	1.58	y	36:18	1.23	2120					106	3.09e+06	1.93e+06
13C-PCB-101	1.78e+07	1.64	y	34:40	-	13.6							
PCB-84	2.17e+06	1.53	y	34:18	0.58	218		-	-	*		Co-elute PCB 92	
PCB-92	2.17e+06	1.53	y	34:18	0.58	218		-	-	*		Co-elute PCB 84	
PCB-89	7.34e+04	1.37	y	34:28	0.56	7.66		-	-	*			
PCB-90	6.49e+06	1.63	y	34:41	0.66	569		-	-	*		Co-elute PCB 101	
PCB-101	6.49e+06	1.63	y	34:41	0.66	569		-	-	*		Co-elute PCB 90	
PCB-113	*	*	n	NotFnd	0.69	*		640	530	1.28			
PCB-99	3.20e+06	1.65	y	34:59	0.75	248		-	-	*			
PCB-119	2.53e+05	1.36	y	35:25	0.79	18.6		-	-	*			
PCB-83	2.96e+05	1.51	y	35:34	0.67	25.7		-	-	*		Co-elute PCB 112	
PCB-112	2.96e+05	1.51	y	35:34	0.67	25.7		-	-	*		Co-elute PCB 83	
PCB-109	*	*	n	NotFnd	0.80	*		640	530	1.10			
PCB-97	1.65e+06	1.57	y	35:54	0.72	132		-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*		640	530	1.33			
PCB-125	2.50e+06	1.60	y	36:11	0.73	198		-	-	*		Co-elute PCB 87/117	
PCB-87	2.50e+06	1.60	y	36:11	0.73	198		-	-	*		Co-elute PCB 125/117	
PCB-117	2.50e+06	1.60	y	36:11	0.73	198		-	-	*		Co-elute PCB 125/87	
PCB-111	1.37e+05	1.60	y	36:19	0.91	8.78		-	-	*		Co-elute PCB 115	
PCB-115	1.37e+05	1.60	y	36:19	0.91	8.78		-	-	*		Co-elute PCB 111	
PCB-85	1.06e+06	1.50	y	36:26	0.69	88.4		-	-	*		Co-elute PCB 116	
PCB-116	1.06e+06	1.50	y	36:26	0.69	88.4		-	-	*		Co-elute PCB 85	
PCB-120	4.57e+04	1.53	y	36:36	0.86	3.09	J	-	-	*			
PCB-110	7.88e+06	1.59	y	36:47	0.85	536		-	-	*			
PCB-82	5.44e+05	1.39	y	37:24	0.51	61.8		-	-	*			
PCB-124	4.65e+05	1.65	y	38:04	1.24	21.7		-	-	*			
PCB-108	7.52e+05	1.63	y	38:13	1.24	35.2		-	-	*		Co-elute PCB 107	
PCB-107	7.52e+05	1.63	y	38:13	1.24	35.2		-	-	*		Co-elute PCB 108	
PCB-123	1.53e+05	1.72	y	38:23	1.50	6.41		-	-	*			
13C-PCB-123	3.17e+07	1.63	y	38:21	1.55	1790					89.3	4.15e+06	2.48e+06
PCB-118	1.03e+07	1.62	y	38:32	1.11	519		-	-	*		Co-elute PCB 106	
PCB-106	1.03e+07	1.62	y	38:32	1.11	519		-	-	*		Co-elute PCB 118	
13C-PCB-118	3.56e+07	1.63	y	38:31	1.75	1780					89.2	4.22e+06	2.57e+06
PCB-114	3.50e+05	1.57	y	39:09	1.30	15.1		-	-	*			
13C-PCB-114	3.56e+07	1.65	y	39:09	1.58	1970					98.5	4.25e+06	2.46e+06
PCB-122	1.57e+05	1.62	y	39:17	1.17	7.77		-	-	*			
PCB-105	4.22e+06	1.59	y	39:58	1.24	193		-	-	*			
13C-PCB-105	3.52e+07	1.62	y	39:56	1.49	2070					104	4.06e+06	2.52e+06

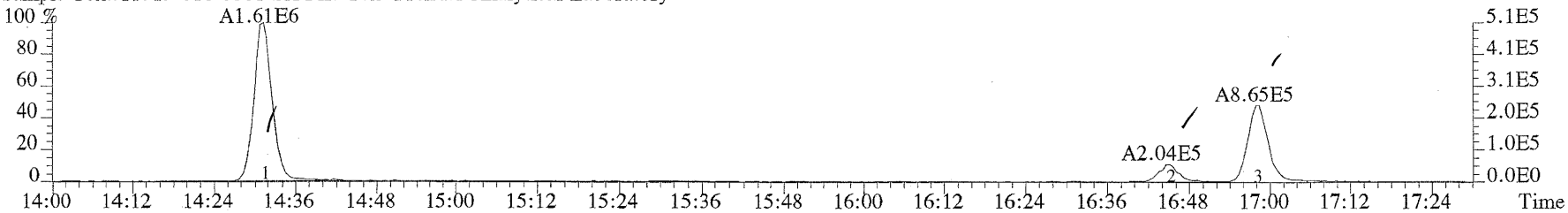
PCB-127	*	*	n	NotFnd	1.09	*		951	699	1.14			
PCB-126	7.37e+04	1.51	y	42:03	1.28	3.40	J	-	-	*			
13C-PCB-126	3.39e+07	1.65	y	42:05	1.40	2120					106	3.36e+06	2.10e+06
PCB-151	1.95e+06	1.35	y	37:46	0.78	192		-	-	*			
PCB-135	1.07e+06	1.25	y	37:58	0.91	90.1		-	-	*			
PCB-144	4.50e+05	1.38	y	38:06	0.91	38.0		-	-	*			
PCB-147	1.75e+05	1.30	y	38:13	0.99	13.6		-	-	*			
PCB-139	7.99e+06	1.29	y	38:27	0.98	627		-	-	*		Co-elute PCB 149	
PCB-149	7.99e+06	1.29	y	38:27	0.98	627		-	-	*		Co-elute PCB 139	
PCB-140	*	*	n	NotFnd	0.99	*		630	604	1.24			
PCB-143	3.85e+05	1.22	y	39:04	0.91	32.3		-	-	*		Co-elute PCB 134	
PCB-134	3.85e+05	1.22	y	39:04	0.91	32.3		-	-	*		Co-elute PCB 143	
PCB-131	2.35e+05	1.42	y	39:20	0.91	19.7		-	-	*		Co-elute PCB 133	
PCB-133	2.35e+05	1.42	y	39:20	0.91	19.7		-	-	*		Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.83	*		630	604	1.47			
PCB-165	1.74e+06	1.29	y	39:43	1.09	123		-	-	*		Co-elute PCB 146	
PCB-146	1.74e+06	1.29	y	39:43	1.09	123		-	-	*		Co-elute PCB 165	
PCB-161	2.71e+06	1.26	y	39:58	1.00	207		-	-	*		Co-elute PCB 132	
PCB-132	2.71e+06	1.26	y	39:58	1.00	207		-	-	*		Co-elute PCB 161	
PCB-153	1.25e+07	1.29	y	40:05	1.09	874		-	-	*			
PCB-168	*	*	n	NotFnd	1.19	*		630	604	1.03			
PCB-141	1.91e+06	1.26	y	40:47	0.92	159		-	-	*			
PCB-137	4.15e+05	1.13	y	41:09	0.82	38.9		-	-	*			
PCB-130	5.54e+05	1.28	y	41:14	0.89	47.8		-	-	*			
PCB-138	1.24e+07	1.26	y	41:35	1.20	791		-	-	*		Co-elute PCB 163/164	
PCB-163	1.24e+07	1.26	y	41:35	1.20	791		-	-	*		Co-elute PCB 138/164	
PCB-164	1.24e+07	1.26	y	41:35	1.20	791		-	-	*		Co-elute PCB 138/163	
PCB-158	1.52e+06	1.18	y	41:48	1.21	96.1		-	-	*		Co-elute PCB 160	
PCB-160	1.52e+06	1.18	y	41:48	1.21	96.1		-	-	*		Co-elute PCB 158	
PCB-129	4.05e+05	1.27	y	42:03	0.78	39.6		-	-	*			
PCB-166	5.93e+04	1.15	y	42:31	1.14	3.99	J	-	-	*			
PCB-159	1.71e+05	1.28	y	42:51	1.20	11.0		-	-	*			
PCB-128	1.66e+06	1.30	y	43:04	1.02	125		-	-	*		Co-elute PCB 162	
PCB-162	1.66e+06	1.30	y	43:04	1.02	125		-	-	*		Co-elute PCB 128	
PCB-167	4.84e+05	1.22	y	43:27	1.08	34.9		-	-	*			
13C-PCB-167	2.56e+07	1.30	y	43:27	1.16	1930					96.3	2.69e+06	2.07e+06
PCB-156	1.17e+06	1.26	y	44:41	1.13	81.9		-	-	*			
13C-PCB-156	2.54e+07	1.31	y	44:39	1.10	2020					101	2.82e+06	2.14e+06
PCB-157	2.64e+05	1.25	y	44:56	1.21	16.2		-	-	*			
13C-PCB-157	2.70e+07	1.29	y	44:54	1.13	2100					105	2.85e+06	2.14e+06
PCB-169	*	*	n	NotFnd	1.13	*		630	604	0.993			
13C-PCB-169	2.64e+07	1.30	y	46:48	1.06	2170					109	3.09e+06	2.40e+06

FAL ID: 11719-010-0001-SA Filename: 31JUL18Z Sam:8 Acquired: 31-JUL-18 17:02:49 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SC-ENR+AC-CA-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.000

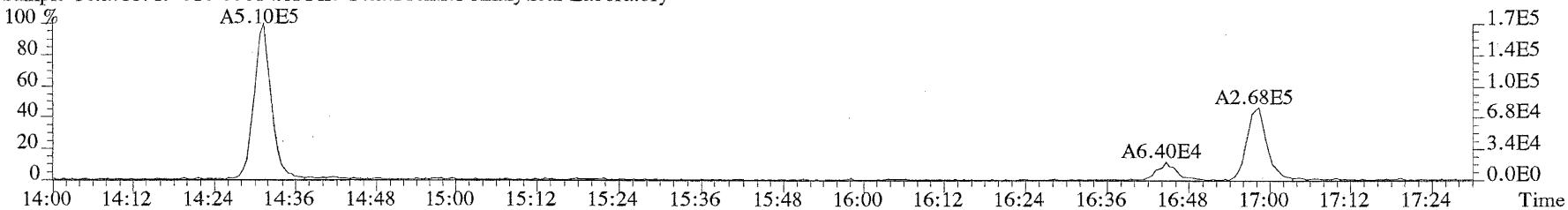
PCB-188	*	*	n	NotFnd	1.18	*	600	356	0.937			
13C-PCB-188	1.83e+07	1.12	y	39:42	0.83	1920				96.1	2.28e+06	2.04e+06
PCB-184	*	*	n	NotFnd	1.27	*	600	356	0.797			
PCB-179	1.32e+06	1.13	y	40:52	1.16	123	-	-	*			
PCB-176	4.23e+05	1.15	y	41:19	1.13	40.4	-	-	*			
PCB-186	*	*	n	NotFnd	1.20	*	600	356	0.849			
PCB-178	4.36e+05	1.11	y	42:21	0.82	57.9	-	-	*			
PCB-175	1.05e+05	1.09	y	42:41	0.85	13.4	-	-	*			
PCB-187	3.20e+06	1.05	y	42:49	0.97	356	-	-	*		Co-elute PCB 182	
PCB-182	3.20e+06	1.05	y	42:49	0.97	356	-	-	*		Co-elute PCB 187	
PCB-183	1.61e+06	1.07	y	43:09	0.92	189	-	-	*			
PCB-185	2.48e+05	0.99	y	43:47	0.87	30.7	-	-	*			
PCB-174	2.24e+06	1.08	y	44:07	0.88	274	-	-	*			
PCB-181	*	*	n	NotFnd	0.86	*	600	356	1.17			
PCB-177	1.34e+06	1.09	y	44:21	0.78	186	-	-	*			
PCB-171	6.77e+05	1.11	y	44:39	0.84	87.6	-	-	*			
PCB-173	3.89e+04	0.93	y	45:03	0.75	5.63	-	-	*			
PCB-172	3.89e+05	1.00	y	45:27	0.79	53.4	-	-	*			
PCB-192	*	*	n	NotFnd	1.11	*	600	356	0.914			
PCB-180	5.54e+06	1.05	y	45:49	1.07	558	-	-	*			
PCB-193	3.95e+05	1.16	y	45:58	1.12	38.1	-	-	*			
PCB-191	1.38e+05	1.04	y	46:12	1.06	14.1	-	-	*			
PCB-170	2.29e+06	1.10	y	47:06	0.78	316	-	-	*			
PCB-190	7.26e+05	1.05	y	47:16	1.05	75.0	-	-	*			
PCB-189	1.18e+05	1.01	y	48:28	1.20	10.5	-	-	*			
13C-PCB-189	1.86e+07	1.05	y	48:27	0.72	2250				113	2.65e+06	2.50e+06
PCB-202	2.08e+05	0.96	y	44:49	1.07	36.7	-	-	*			
PCB-201	1.45e+05	0.94	y	45:16	0.97	28.0	-	-	*			
PCB-204	*	*	n	NotFnd	1.00	*	192	184	0.728			
PCB-197	4.85e+04	0.95	y	45:40	1.07	8.53	-	-	*			
PCB-200	1.27e+05	1.00	y	46:25	1.00	23.8	-	-	*			
PCB-198	4.94e+04	0.86	y	47:37	0.77	12.0	-	-	*			
PCB-199	8.75e+05	0.94	y	47:42	0.74	224	-	-	*			
PCB-203	1.10e+06	0.93	y	47:57	0.85	245	-	-	*		Co-elute PCB 196	
PCB-196	1.10e+06	0.93	y	47:57	0.85	245	-	-	*		Co-elute PCB 203	
13C-PCB-202	1.06e+07	0.94	y	44:48	0.48	1940				96.9	1.23e+06	1.36e+06
13C-PCB-178	1.29e+07	1.08	y	42:20	0.61	1840				92.2	1.44e+06	1.32e+06
13C-PCB-138	2.29e+07	1.31	y	41:33	-	16.5						
PCB-195	9.35e+05	0.92	y	49:03	0.90	66.2	-	-	*			
PCB-194	2.29e+06	0.89	y	49:52	0.92	159	-	-	*			
PCB-205	1.47e+05	0.78	y	50:07	1.19	7.88	-	-	*			
13C-PCB-205	3.15e+07	0.92	y	50:06	1.25	1930				96.4	4.80e+06	5.16e+06
PCB-208	2.28e+05	1.35	y	49:09	0.99	18.3	-	-	*			
13C-PCB-208	2.50e+07	0.82	y	49:08	1.27	1510				75.5	3.27e+06	4.15e+06
PCB-207	1.21e+05	1.30	y	49:27	1.01	10.7	-	-	*			
PCB-206	7.39e+05	1.41	y	51:18	0.96	77.7	-	-	*			
13C-PCB-206	1.97e+07	0.80	y	51:18	0.93	1610				80.6	2.59e+06	3.23e+06
PCB-209	3.16e+05	1.21	y	52:28	1.13	25.5	-	-	*			
13C-PCB-209	2.20e+07	1.19	y	52:27	1.04	1620				81.1	3.54e+06	2.99e+06
13C-PCB-194	2.62e+07	0.90	y	49:50	-	19.4						

Analyst: _____ Date: 8/30/18

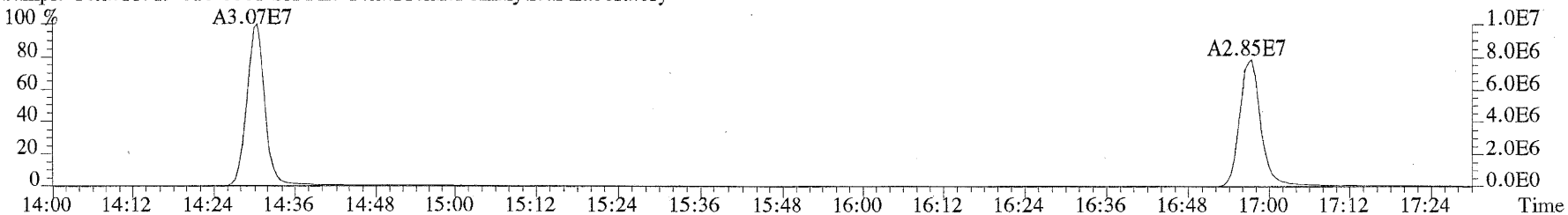
File:31JUL18Z #1-783 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



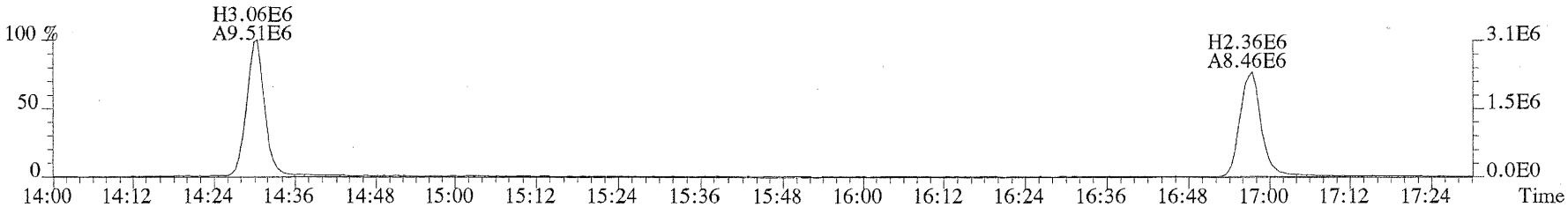
File:31JUL18Z #1-783 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



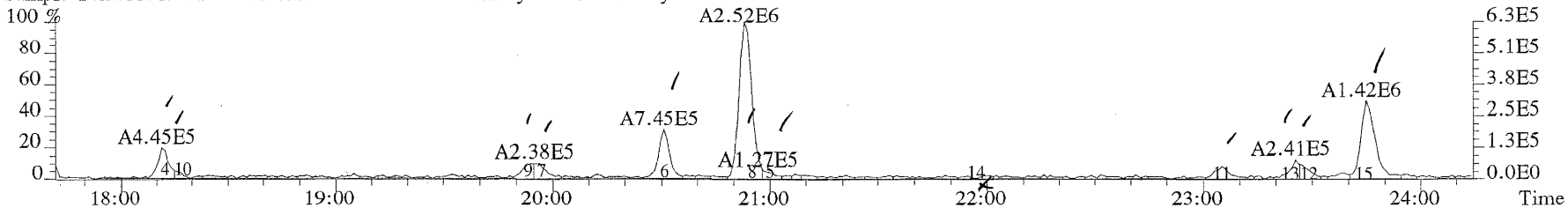
File:31JUL18Z #1-783 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



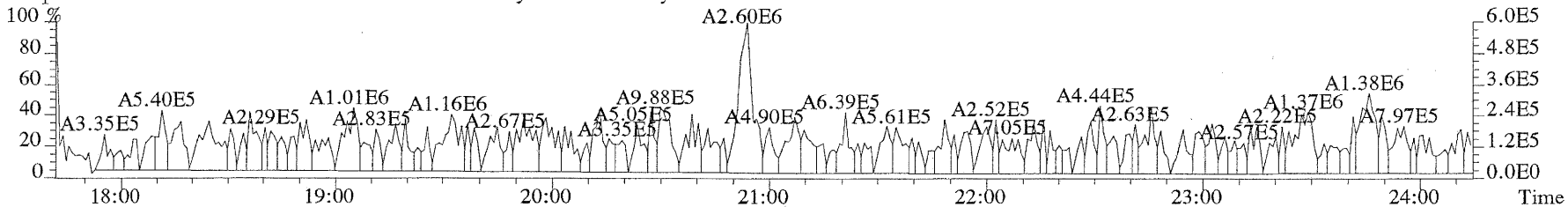
File:31JUL18Z #1-783 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



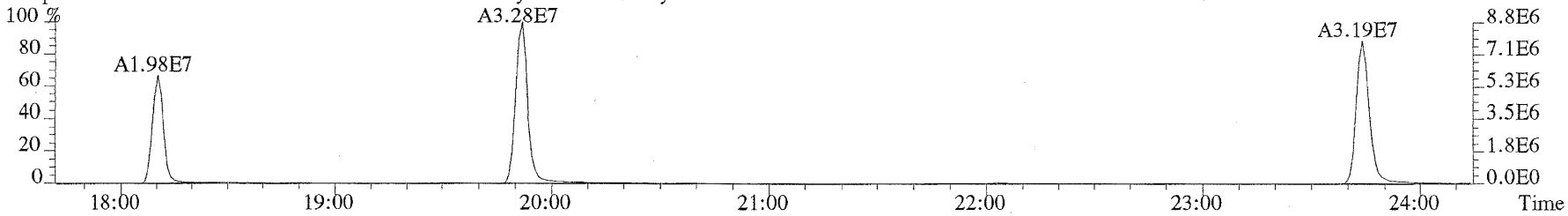
File:31JUL18Z #1-520 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



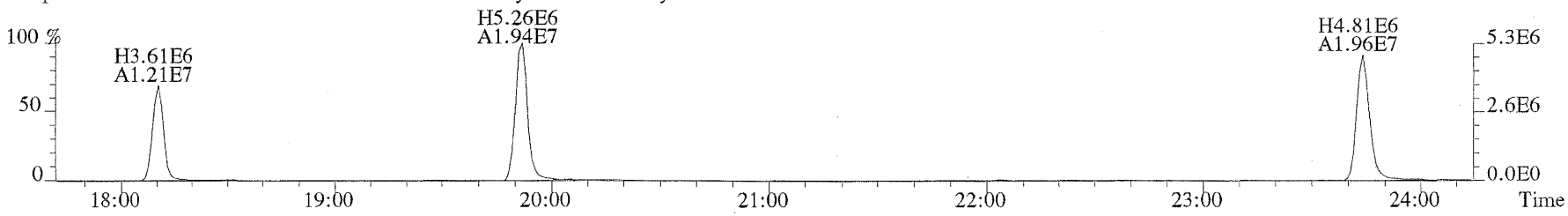
File:31JUL18Z #1-520 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



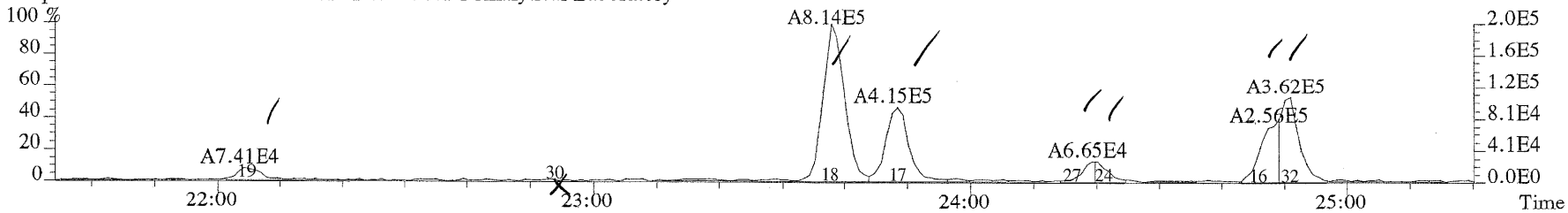
File:31JUL18Z #1-520 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



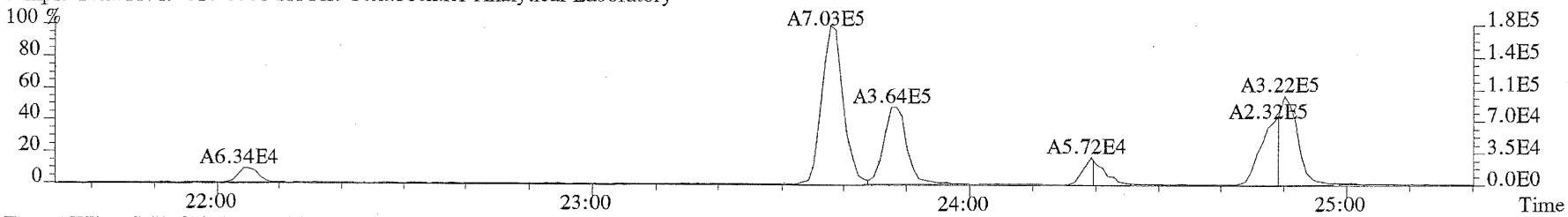
File:31JUL18Z #1-520 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



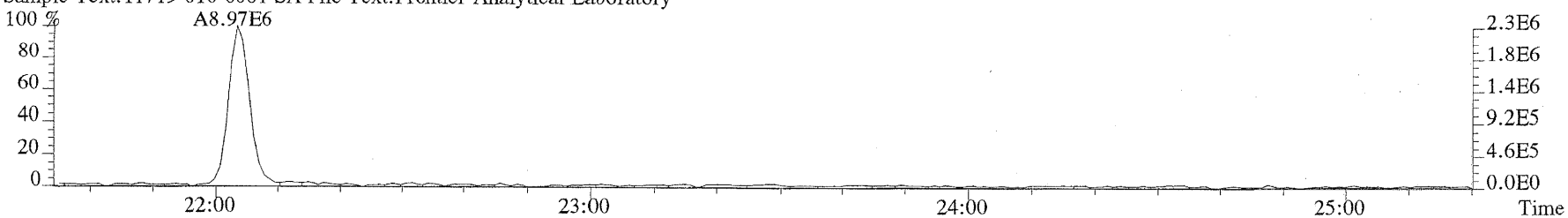
File:31JUL18Z #1-520 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



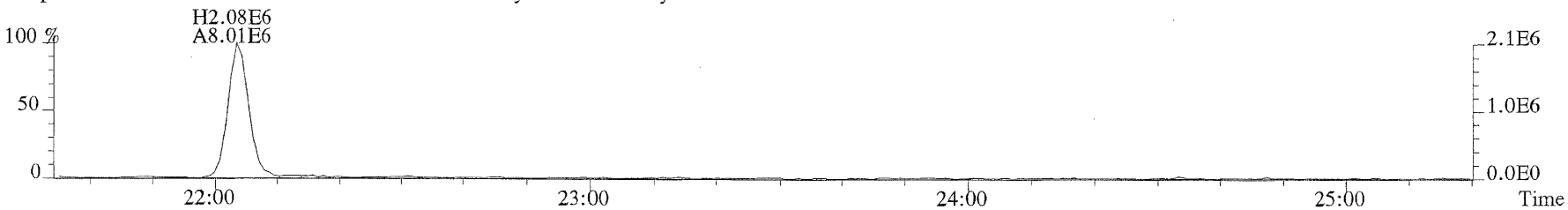
File:31JUL18Z #1-520 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



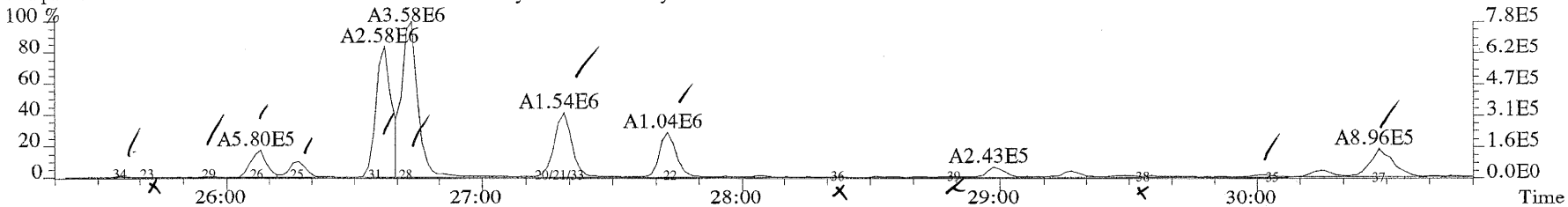
File:31JUL18Z #1-520 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



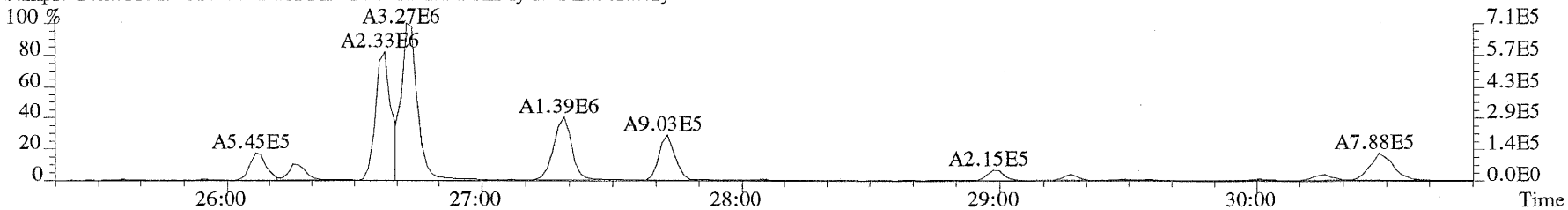
File:31JUL18Z #1-520 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



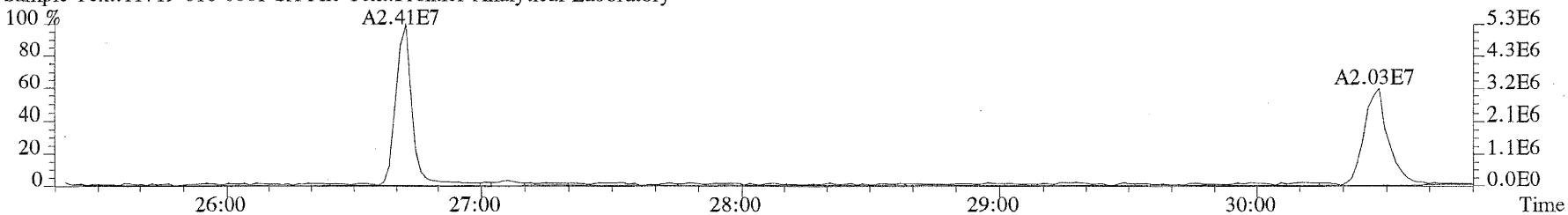
File:31JUL18Z #1-401 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



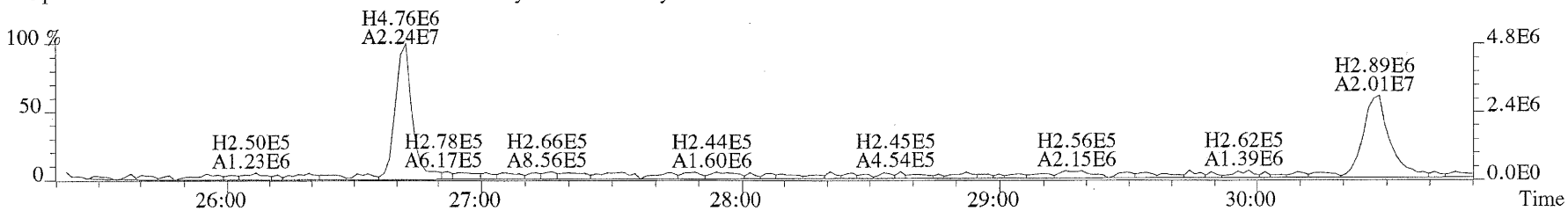
File:31JUL18Z #1-401 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



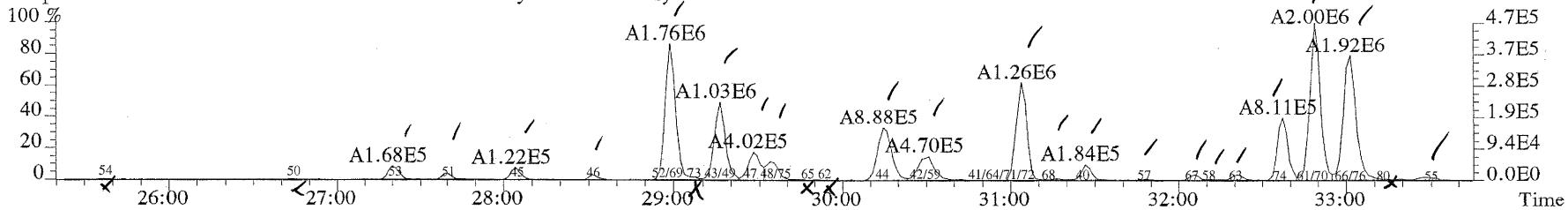
File:31JUL18Z #1-401 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



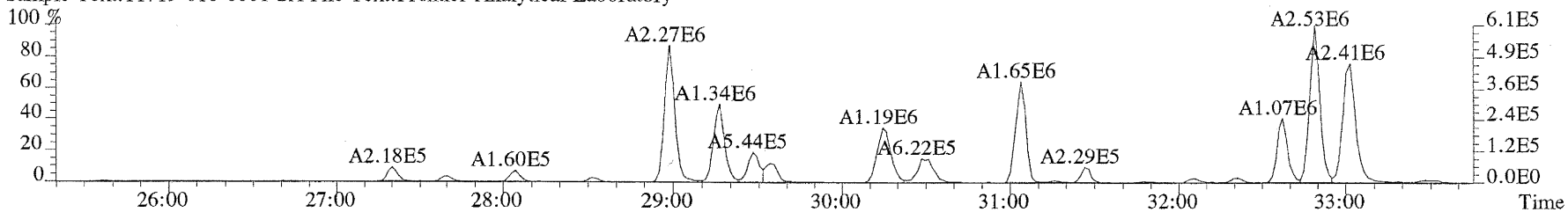
File:31JUL18Z #1-401 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



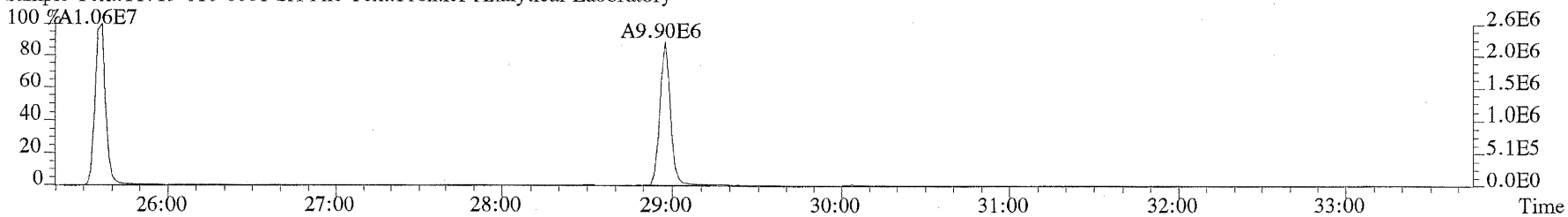
File:31JUL18Z #1-401 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



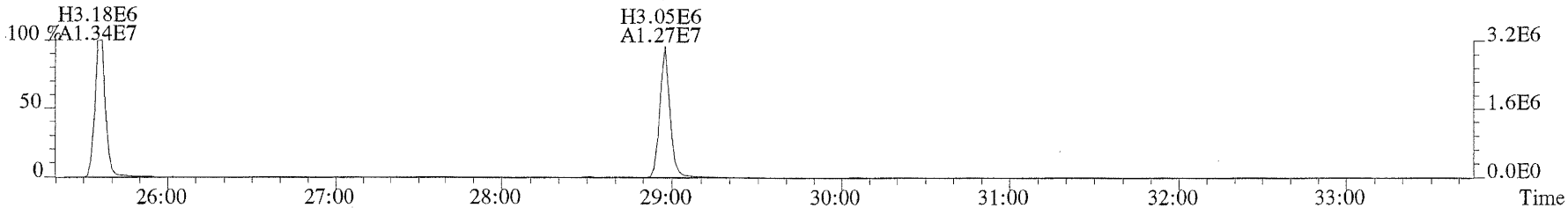
File:31JUL18Z #1-401 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



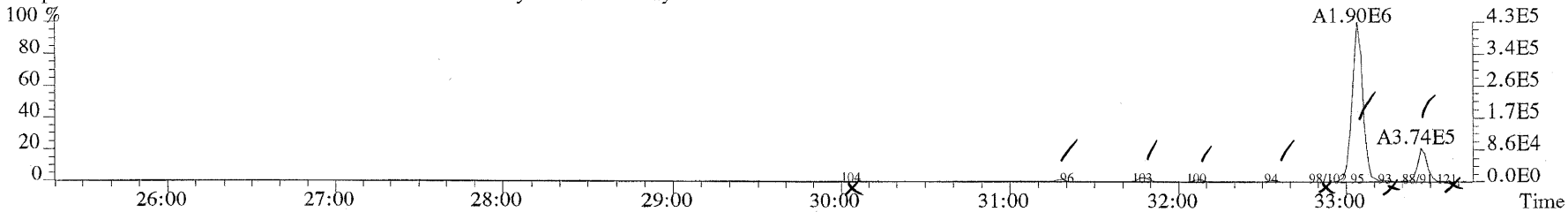
File:31JUL18Z #1-401 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 17:02:49 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:11719-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 17:02:49 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:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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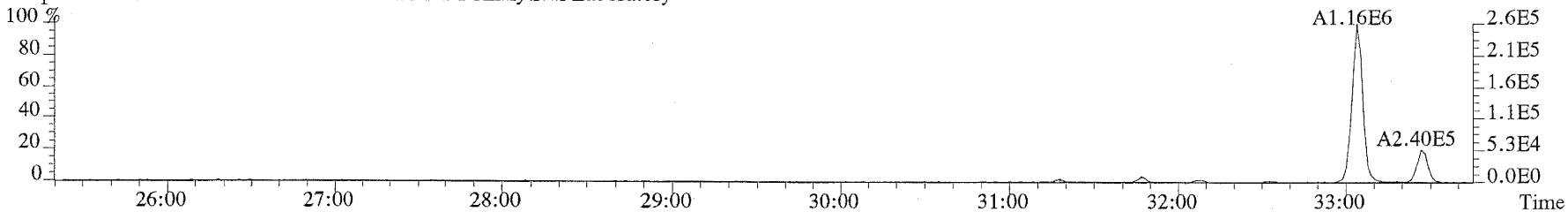
327.8775 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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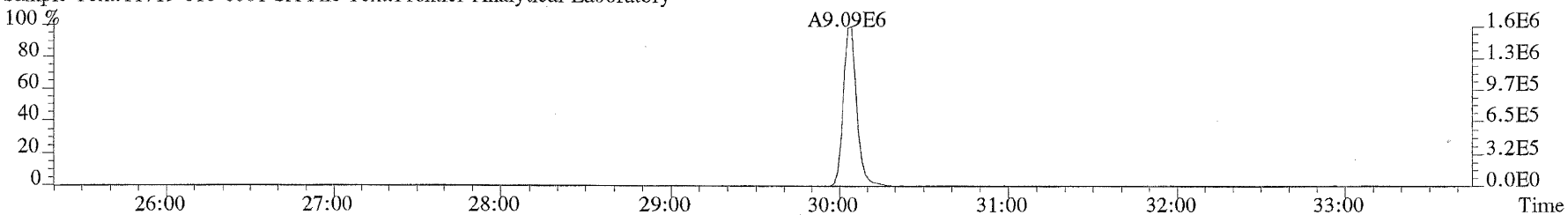
337.9207 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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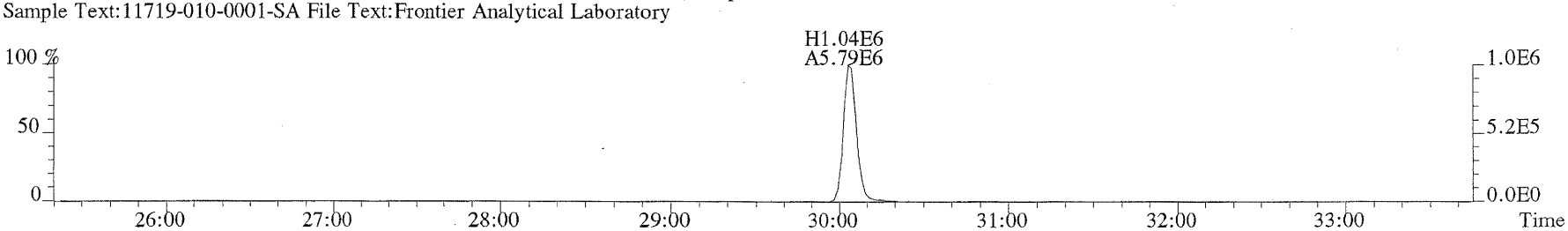
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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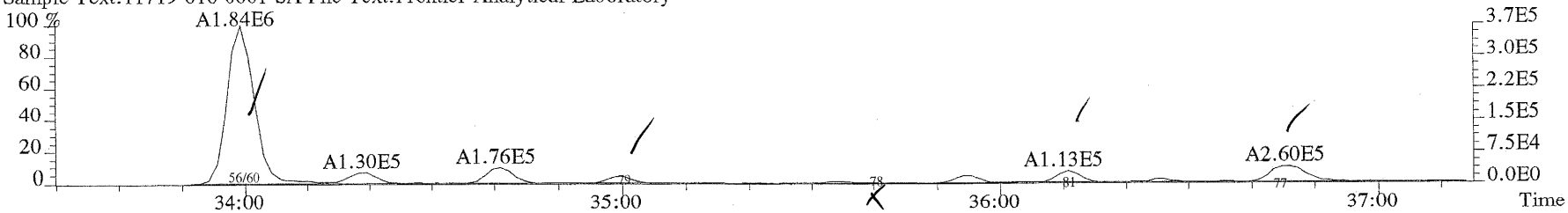
289.9224 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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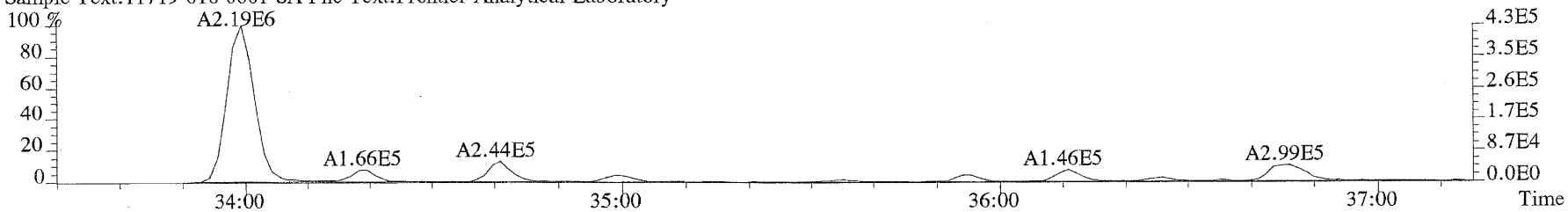
291.9194 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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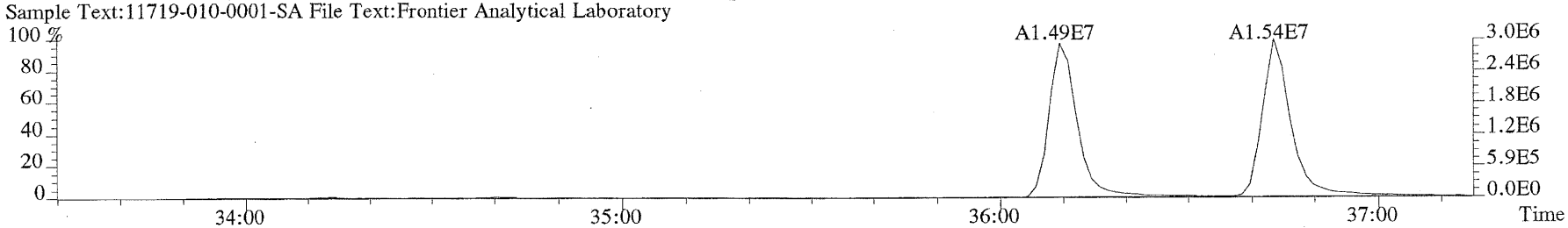
301.9626 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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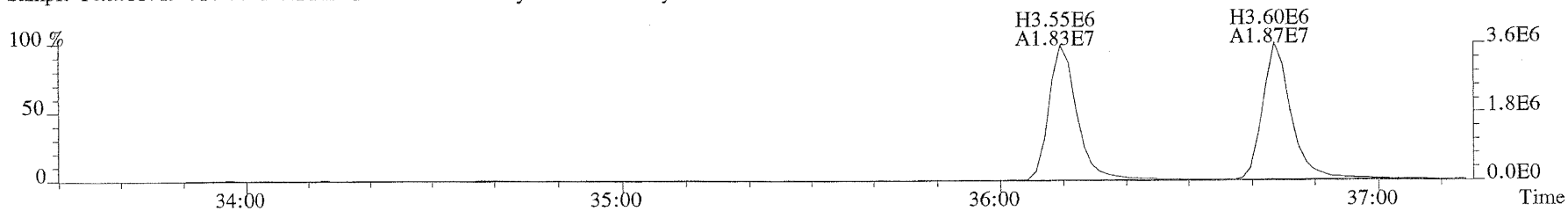
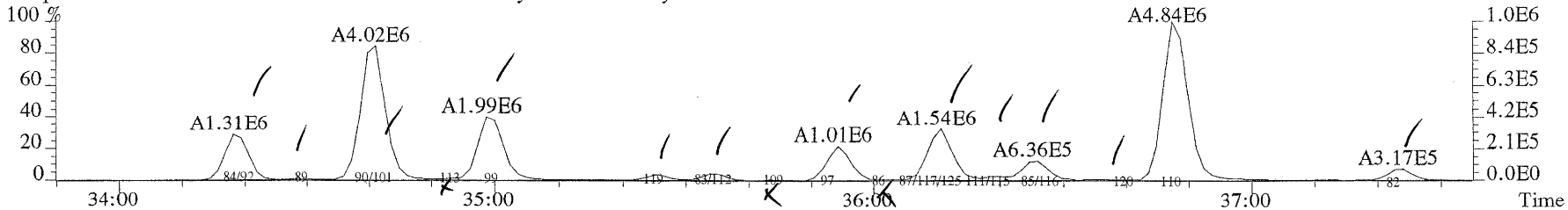
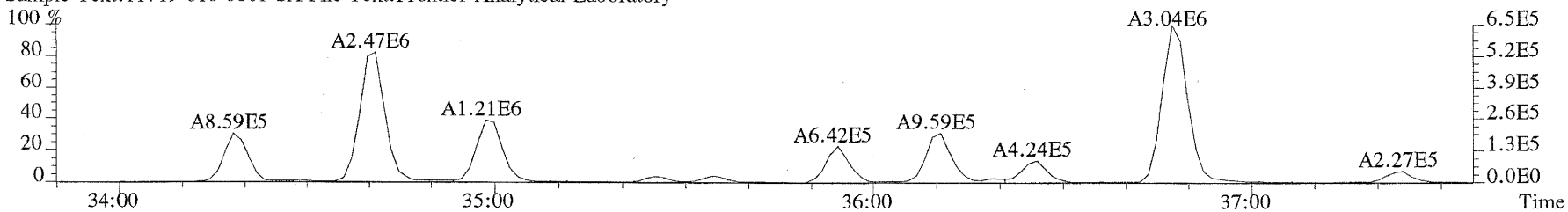
303.9597 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



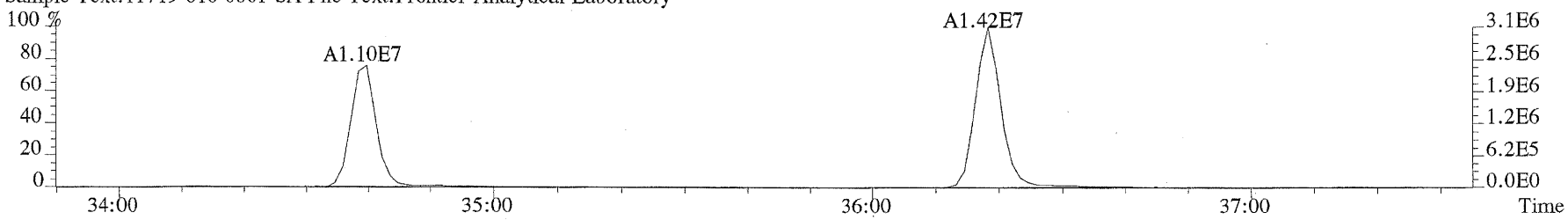
File:31JUL18Z #1-183 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-183 Acq:31-JUL-2018 17:02:49 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:11719-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-183 Acq:31-JUL-2018 17:02:49 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:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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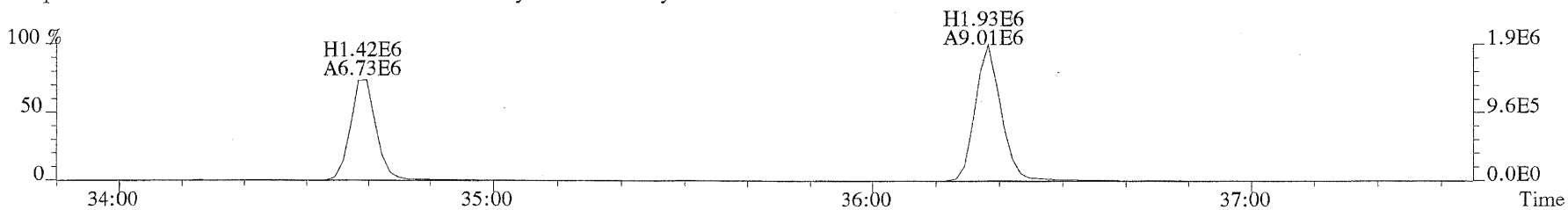
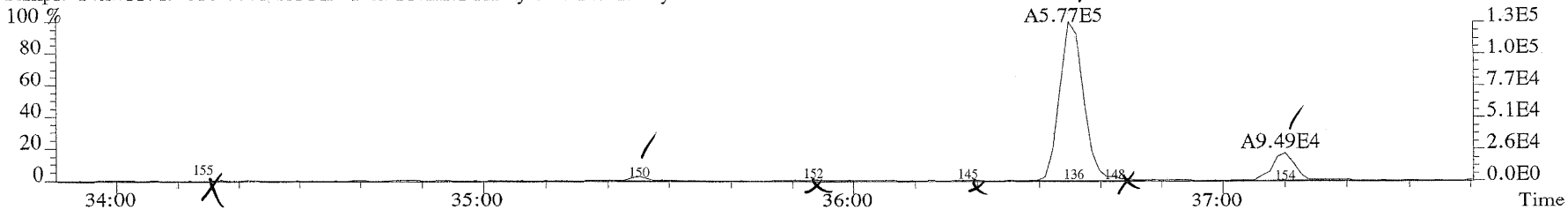
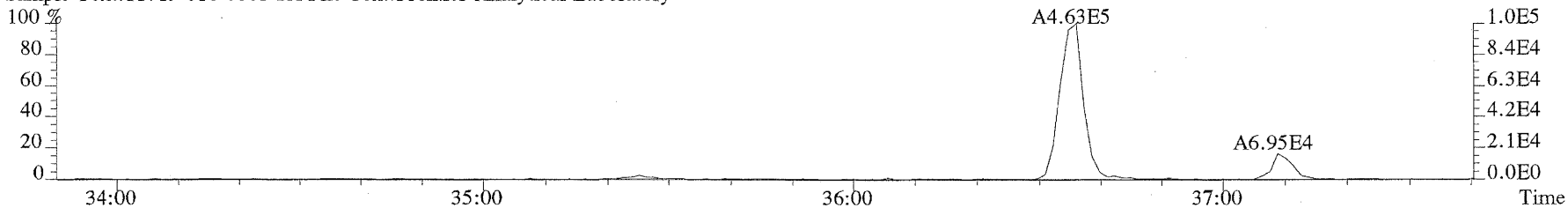
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



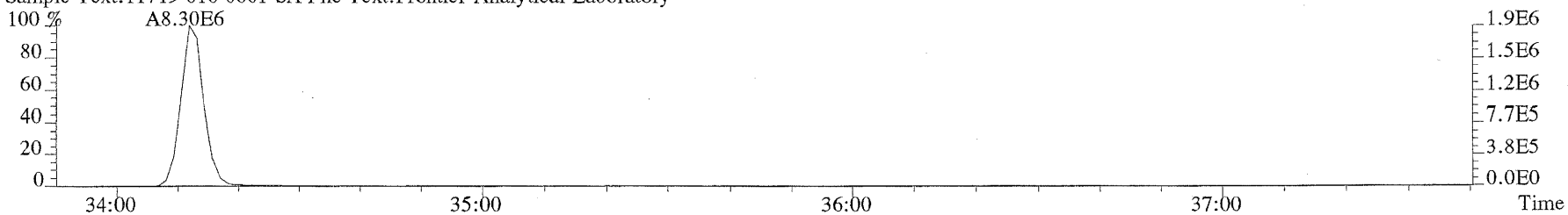
File:31JUL18Z #1-183 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



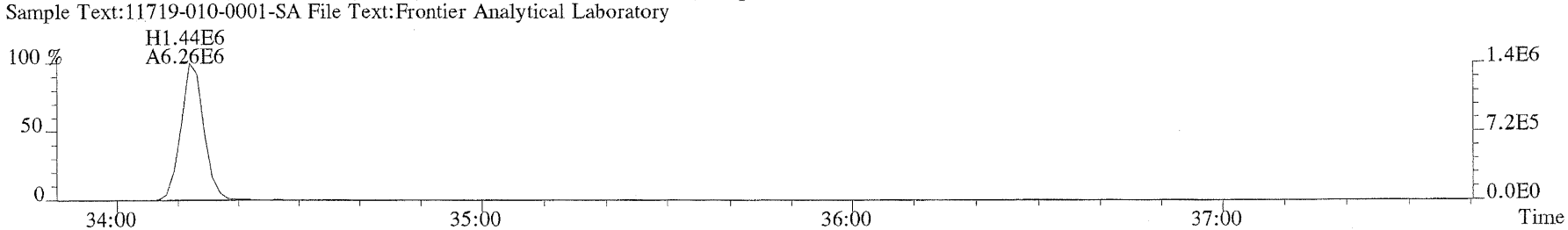
File:31JUL18Z #1-183 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



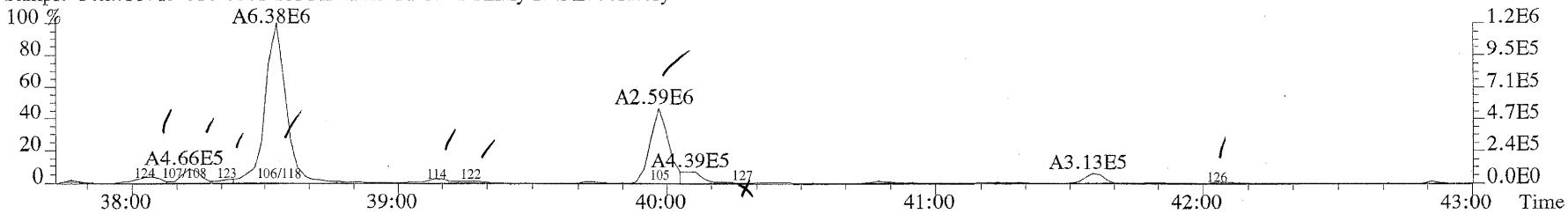
File:31JUL18Z #1-183 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



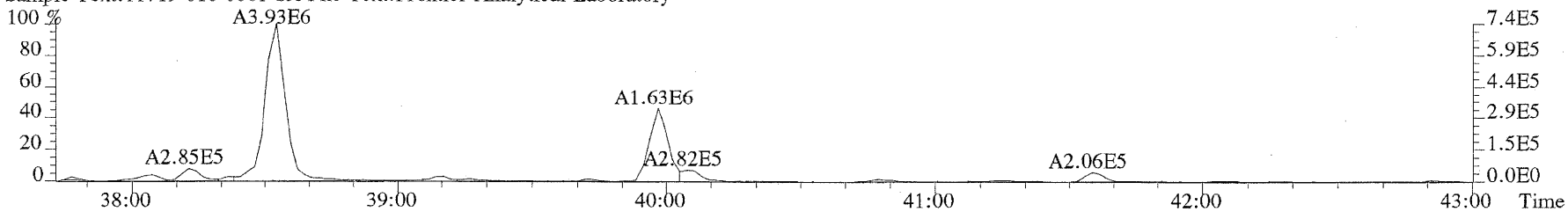
File:31JUL18Z #1-183 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 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:11719-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 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:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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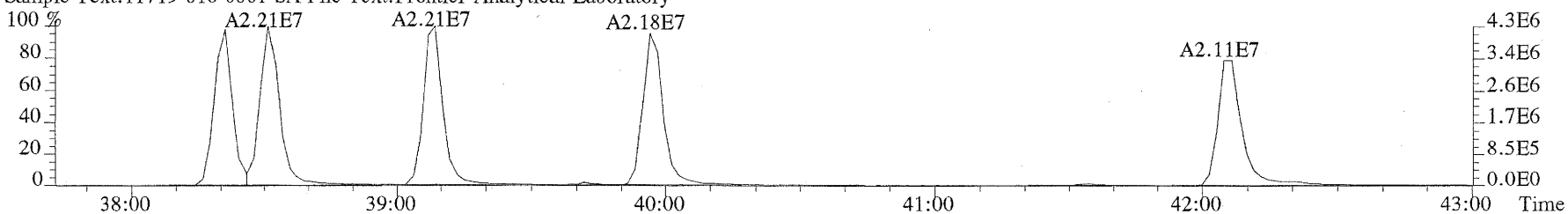
337.9207 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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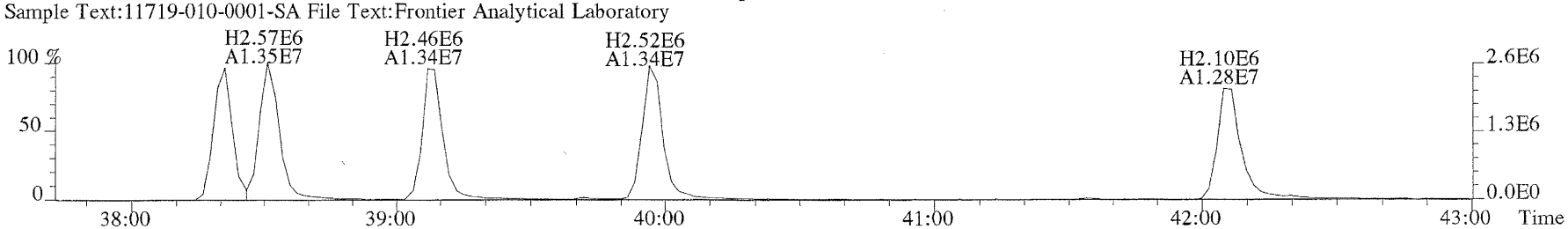
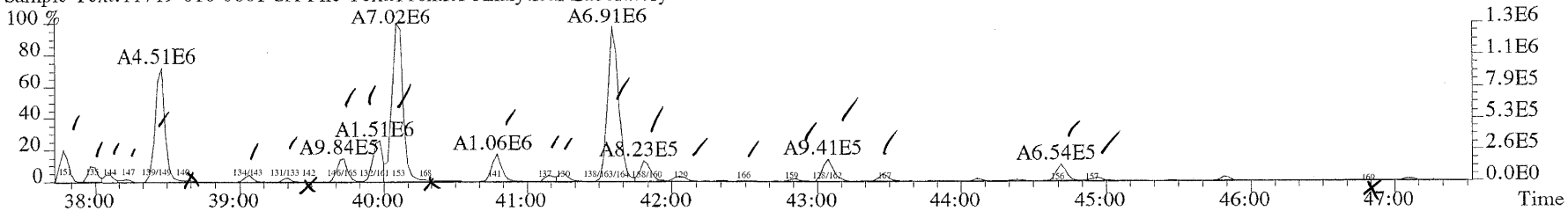
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
359.8415 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:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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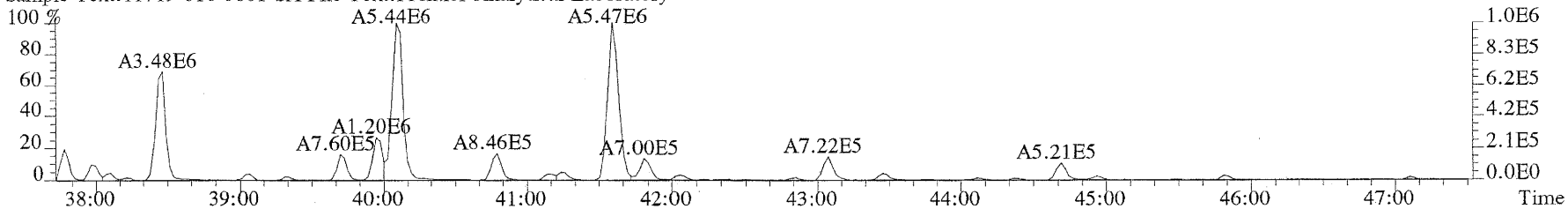
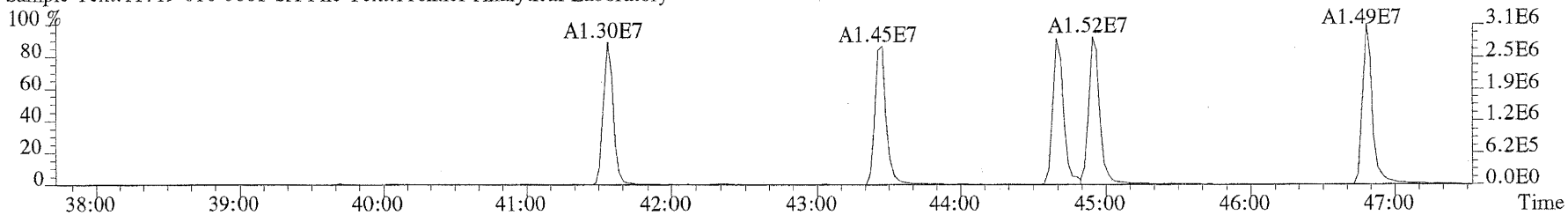
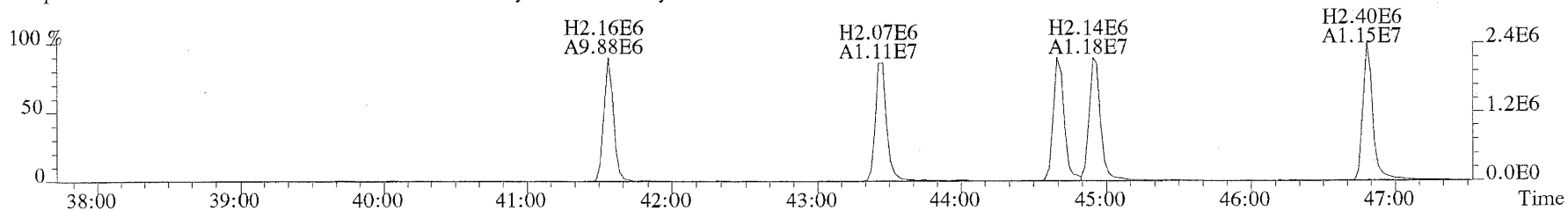
361.8385 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



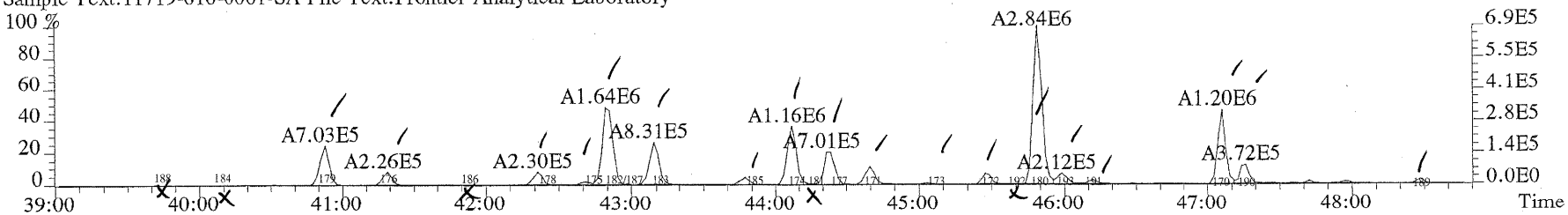
File:31JUL18Z #1-404 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



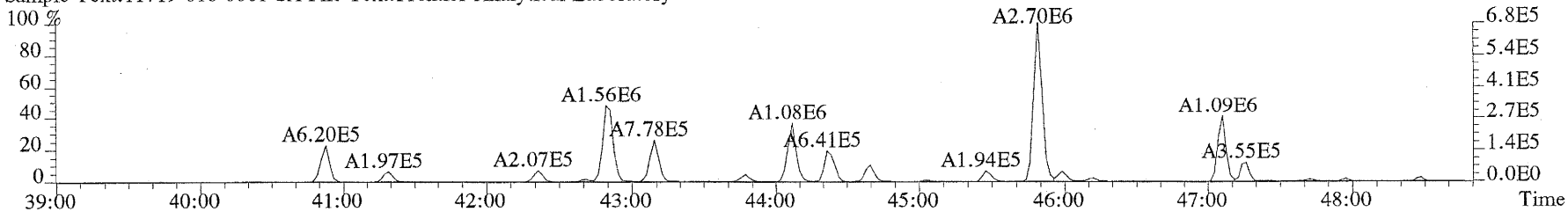
File:31JUL18Z #1-404 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 17:02:49 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:11719-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 17:02:49 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:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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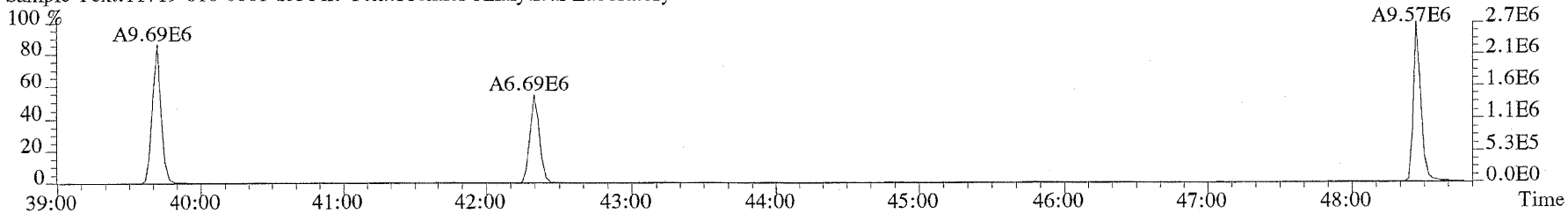
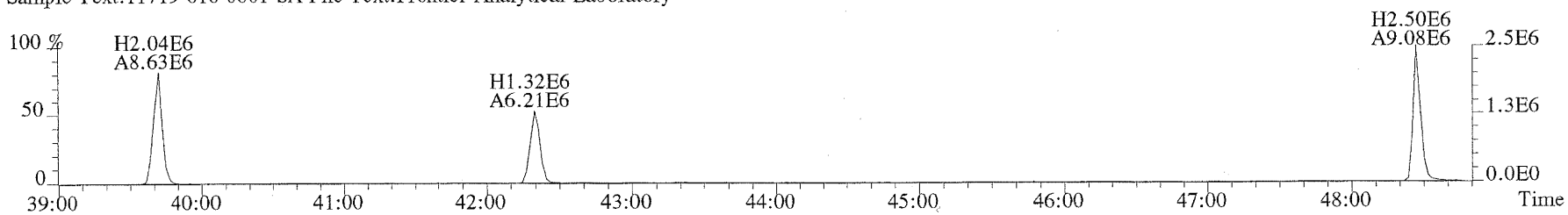
405.8428 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 17:02:49 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:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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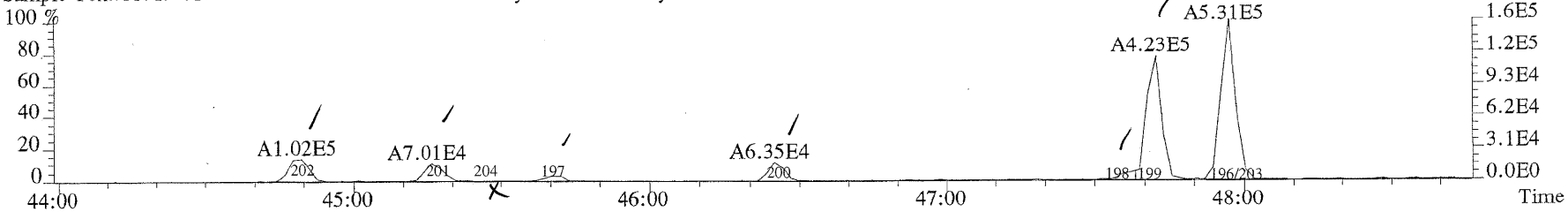
427.7635 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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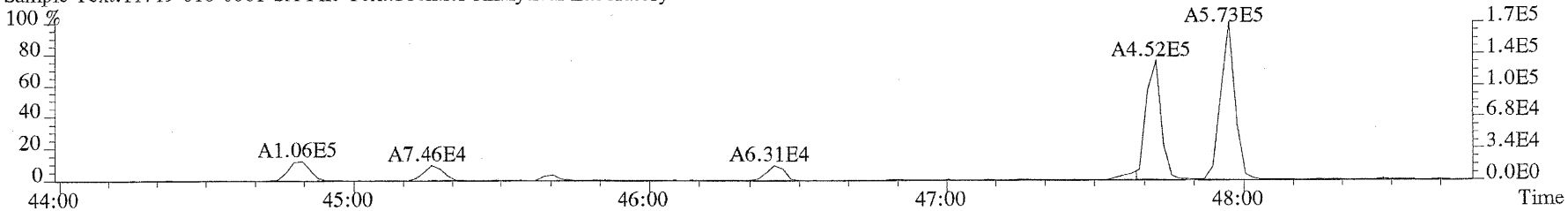
429.7606 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



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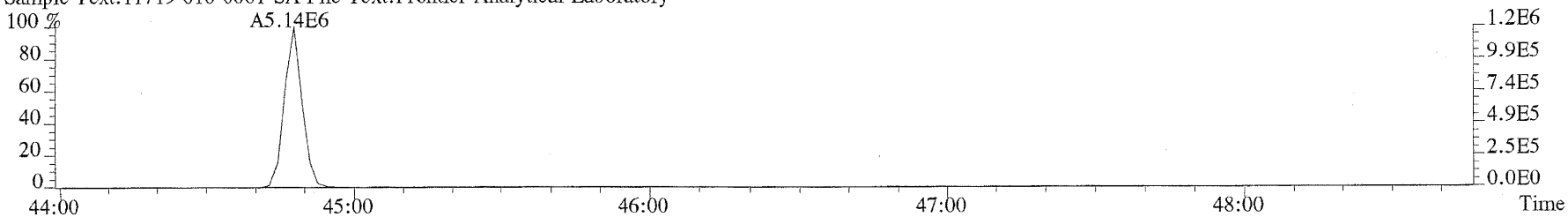
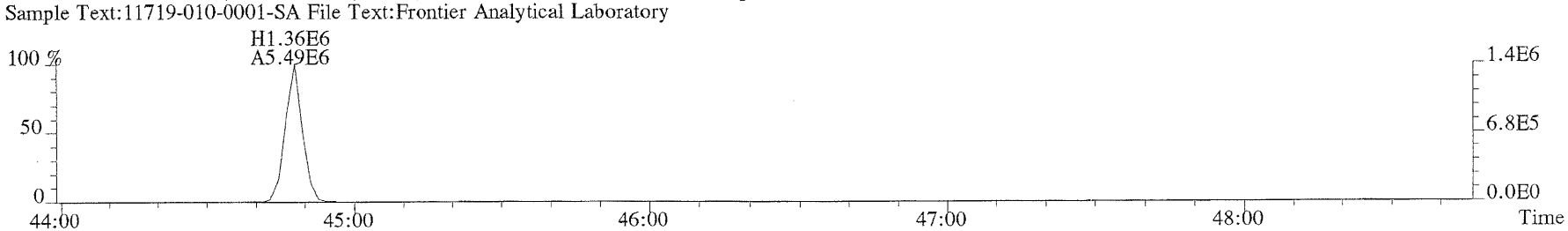
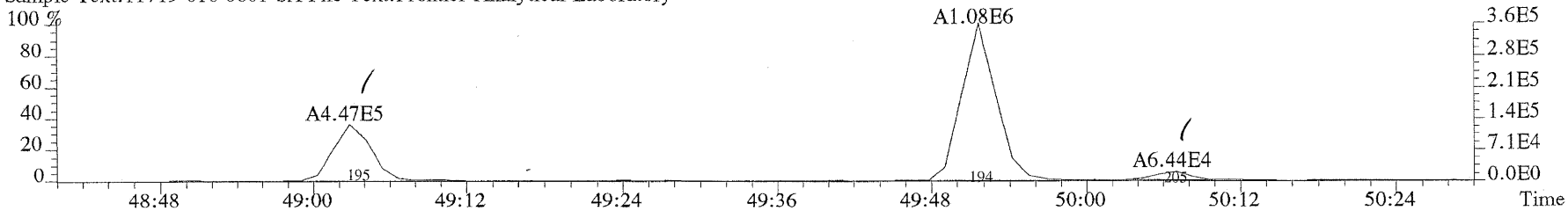


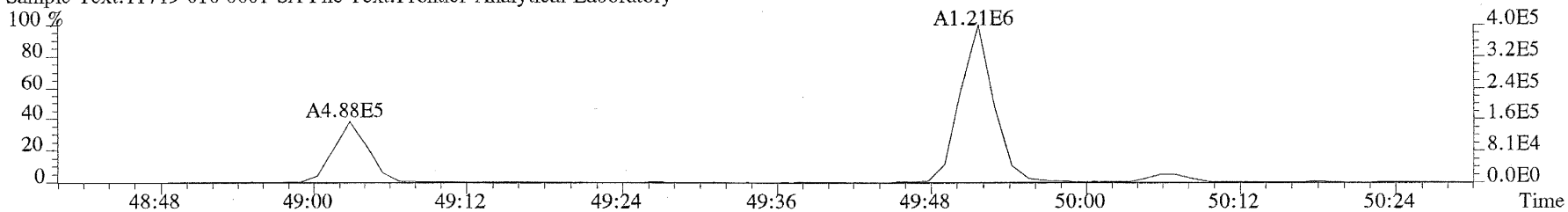
File:31JUL18Z #1-404 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



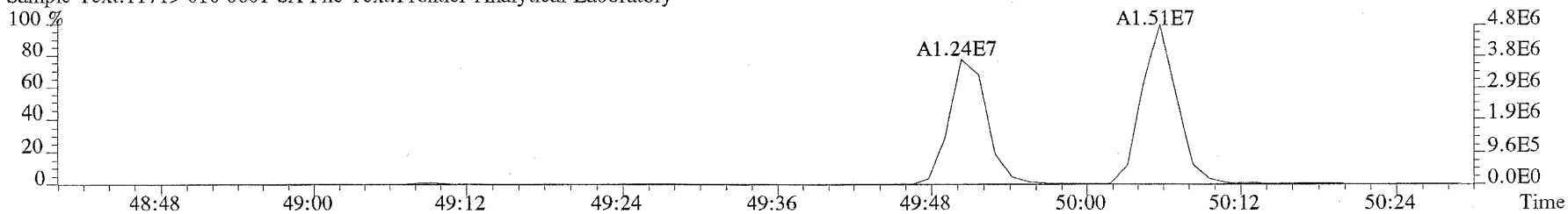
File:31JUL18Z #1-314 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



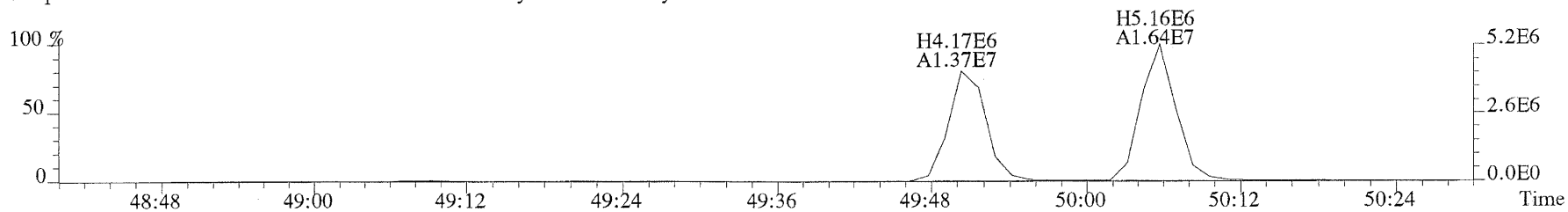
File:31JUL18Z #1-314 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



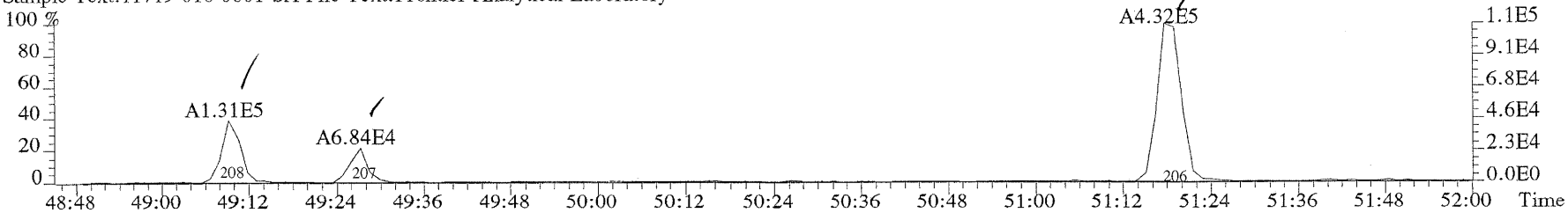
File:31JUL18Z #1-314 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



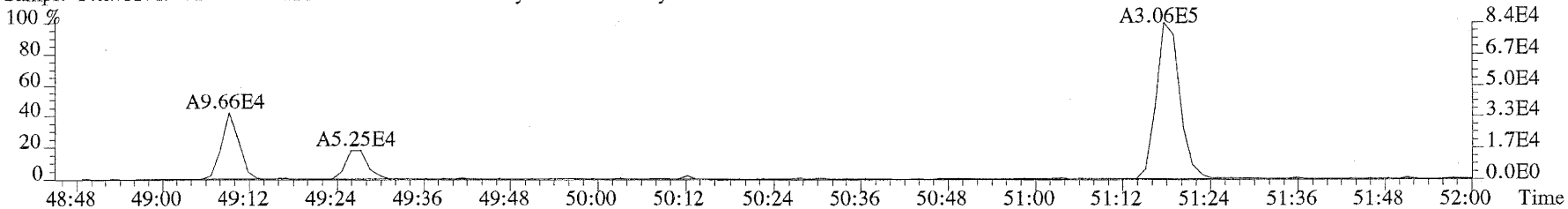
File:31JUL18Z #1-314 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



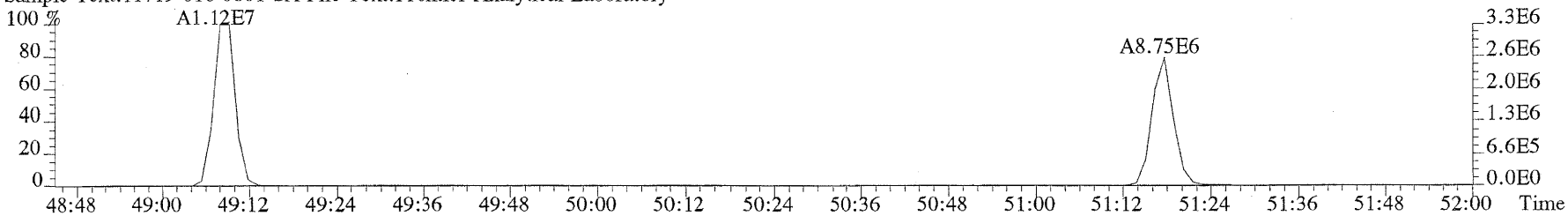
File:31JUL18Z #1-314 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



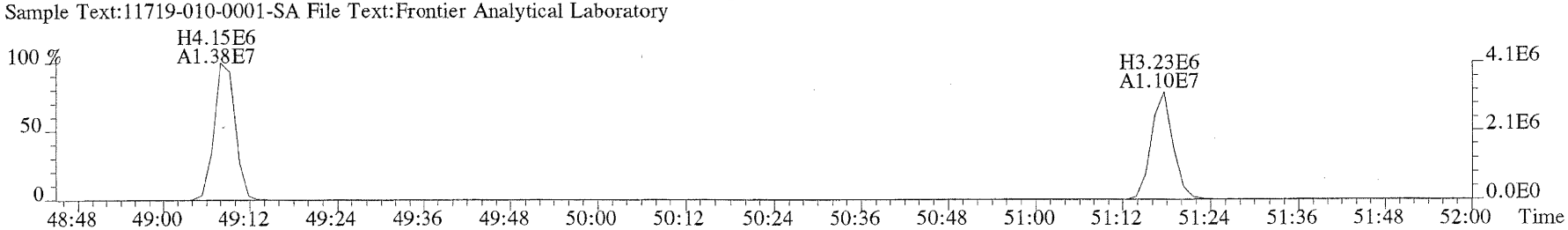
File:31JUL18Z #1-314 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



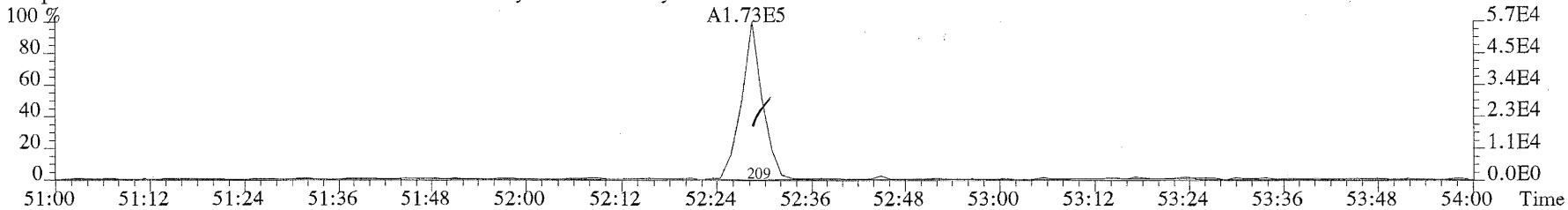
File:31JUL18Z #1-314 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



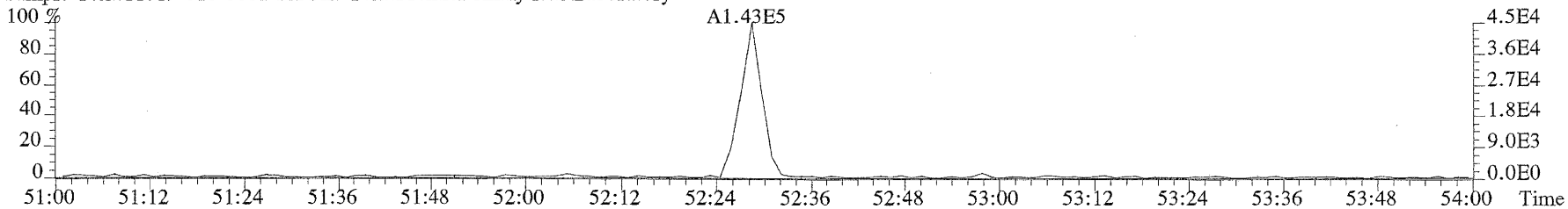
File:31JUL18Z #1-314 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



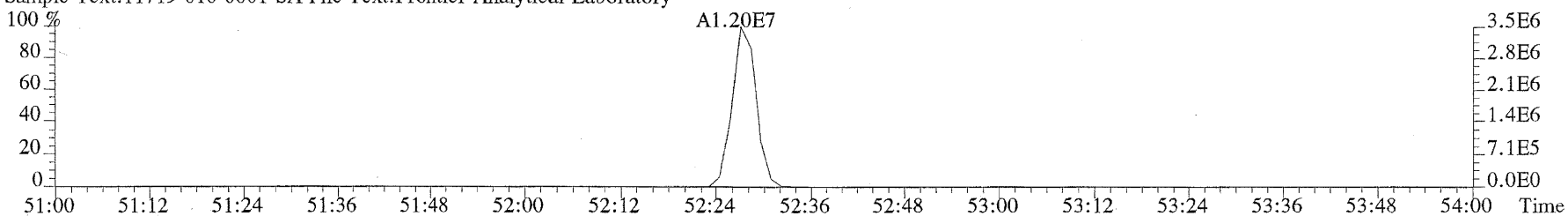
File:31JUL18Z #1-314 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



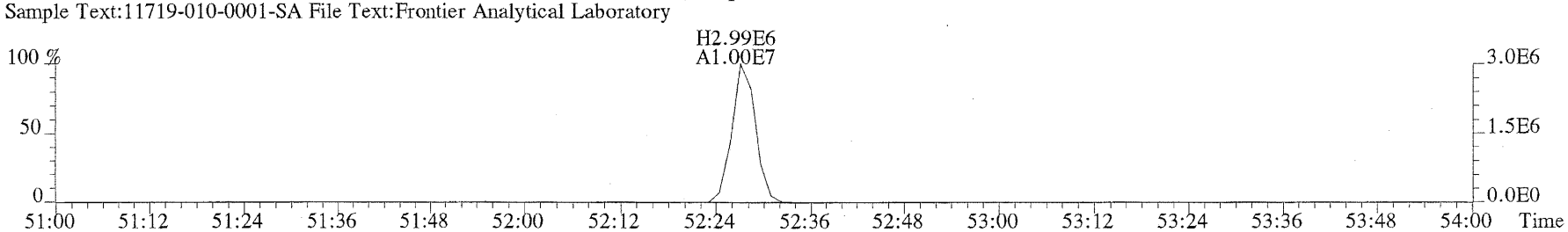
File:31JUL18Z #1-314 Acq:31-JUL-2018 17:02:49 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 17:02:49 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:11719-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 17:02:49 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:11719-010-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-011-0001-SA Filename: 31JUL18Z Sam:9 Acquired: 31-JUL-18 18:01:29 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SC-ENR+AC-CB-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	2.89e+05	3.23 y	14:32	1.28	8.66		-	-	*			
13C-PCB-1	5.22e+07	3.28 y	14:31	0.83	1710					85.7	1.36e+07	4.25e+06
PCB-2	7.79e+04	2.94 y	16:45	1.15	2.66	J	-	-	*			
PCB-3	2.31e+05	2.94 y	16:58	1.27	7.35		-	-	*			
13C-PCB-3	4.96e+07	3.30 y	16:57	0.83	1620					80.8	1.21e+07	3.59e+06
PCB-4	8.06e+05	1.46 y	18:11	1.44	27.1		-	-	*			
PCB-10	1.67e+05	1.50 y	18:14	1.35	4.45		-	-	*			
13C-PCB-4	4.13e+07	1.67 y	18:11	0.68	1640					82.0	7.77e+06	4.65e+06
PCB-9	3.62e+05	1.48 y	19:53	1.44	9.00		-	-	*			
PCB-7	3.82e+05	1.48 y	19:55	1.55	8.81		-	-	*			
PCB-6	1.92e+06	1.47 y	20:30	1.44	48.0		-	-	*			
PCB-8	6.11e+06	1.46 y	20:53	1.45	152		-	-	*			
PCB-5	2.90e+05	1.55 y	20:58	1.46	7.10		-	-	*			
PCB-14	*	* n	NotFnd	1.36	*		730	1830	0.643			
PCB-11	7.17e+05	1.55 y	23:04	1.31	19.7		-	-	*			
PCB-13	5.85e+05	1.65 y	23:26	1.38	15.2		-	-	*			
PCB-12	2.95e+05	1.40 y	23:27	1.44	7.35		-	-	*			
PCB-15	3.92e+06	1.62 y	23:45	1.38	81.0		-	-	*			
13C-PCB-15	7.01e+07	1.64 y	23:44	1.01	1880					94.0	1.02e+07	6.23e+06
PCB-19	2.55e+05	1.14 y	22:05	1.31	16.4		-	-	*			
PCB-30	*	* n	NotFnd	1.68	*		520	640	0.545			
PCB-18	3.12e+06	1.06 y	23:38	1.25	210		-	-	*			
PCB-17	1.51e+06	1.12 y	23:49	1.37	92.3		-	-	*			
PCB-27	2.76e+05	1.08 y	24:19	1.68	13.8		-	-	*			
PCB-24	2.04e+05	1.09 y	24:20	1.74	9.84		-	-	*			
PCB-16	1.09e+06	1.04 y	24:49	1.49	61.6		-	-	*			
PCB-32	1.41e+06	1.09 y	24:50	1.50	78.8		-	-	*			
13C-PCB-19	2.37e+07	1.09 y	22:04	0.35	1830					91.5	3.30e+06	3.03e+06
13C-PCB-9	7.36e+07	1.65 y	19:51	-	19.8							
PCB-34	1.01e+05	1.06 y	25:35	1.40	2.59	J	-	-	*			
PCB-23	*	* n	NotFnd	1.50	*		830	722	0.692			
PCB-29	9.97e+04	1.12 y	25:55	1.31	2.73	J	-	-	*			
PCB-26	2.66e+06	1.09 y	26:07	1.25	76.5		-	-	*			
PCB-25	1.76e+06	1.14 y	26:17	1.60	39.5		-	-	*			
PCB-31	9.89e+06	1.09 y	26:37	1.21	294		-	-	*			
PCB-28	1.38e+07	1.15 y	26:44	1.69	294		-	-	*			
PCB-20	6.61e+06	1.10 y	27:19	1.36	175		-	-	*		Co-elute PCB 21/33	
PCB-21	6.61e+06	1.10 y	27:19	1.36	175		-	-	*		Co-elute PCB 20/33	
PCB-33	6.61e+06	1.10 y	27:19	1.36	175		-	-	*		Co-elute PCB 20/21	
PCB-22	4.25e+06	1.09 y	27:43	1.41	109		-	-	*			
PCB-36	*	* n	NotFnd	1.20	*		830	722	0.867			
PCB-39	*	* n	NotFnd	1.05	*		830	722	0.987			
PCB-38	*	* n	NotFnd	1.39	*		380	722	0.531			
PCB-35	2.18e+05	1.00 y	30:01	1.12	6.99		-	-	*			
PCB-37	3.72e+06	1.14 y	30:31	1.40	95.9		-	-	*			
13C-PCB-37	5.56e+07	1.02 y	30:29	1.54	2160					108	3.86e+06	3.62e+06

PCB-54	*	*	n	NotFnd	1.13	*		712	980	0.937			
PCB-50	*	*	n	NotFnd	0.72	*		712	980	1.47			
PCB-53	8.02e+05	0.76	y	27:20	0.76	64.3		-	-	*			
PCB-51	2.94e+05	0.75	y	27:39	0.76	23.6		-	-	*			
PCB-45	5.84e+05	0.79	y	28:04	0.63	56.4		-	-	*			
PCB-46	2.43e+05	0.84	y	28:32	0.65	23.0		-	-	*			
PCB-52	8.45e+06	0.77	y	28:59	0.92	563		-	-	*	Co-elute PCB 69		
PCB-69	8.45e+06	0.77	y	28:59	0.92	563		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	0.87	*		712	980	1.22			
PCB-43	5.26e+06	0.77	y	29:17	0.72	447		-	-	*	Co-elute PCB 49		
PCB-49	5.26e+06	0.77	y	29:17	0.72	447		-	-	*	Co-elute PCB 43		
PCB-47	2.07e+06	0.76	y	29:29	0.84	151		-	-	*			
PCB-48	1.48e+06	0.79	y	29:35	0.96	94.8		-	-	*	Co-elute PCB 75		
PCB-75	1.48e+06	0.79	y	29:35	0.96	94.8		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.01	*		712	980	1.05			
PCB-62	*	*	n	NotFnd	0.97	*		712	980	1.09			
PCB-44	4.69e+06	0.76	y	30:17	0.66	432		-	-	*			
PCB-42	2.32e+06	0.78	y	30:31	0.85	167		-	-	*	Co-elute PCB 59		
PCB-59	2.32e+06	0.78	y	30:31	0.85	167		-	-	*	Co-elute PCB 42		
PCB-72	6.29e+06	0.76	y	31:09	0.92	421		-	-	*	Co-elute PCB 41/71/64		
PCB-41	6.29e+06	0.76	y	31:09	0.92	421		-	-	*	Co-elute PCB 72/71/64		
PCB-71	6.29e+06	0.76	y	31:09	0.92	421		-	-	*	Co-elute PCB 72/41/64		
PCB-64	6.29e+06	0.76	y	31:09	0.92	421		-	-	*	Co-elute PCB 72/41/71		
PCB-68	7.15e+04	0.75	y	31:25	1.03	4.25		-	-	*			
PCB-40	7.46e+05	0.77	y	31:36	0.59	77.3		-	-	*			
PCB-57	6.99e+04	0.88	y	31:49	0.97	4.43		-	-	*			
PCB-67	3.01e+05	0.85	y	32:07	0.98	18.7		-	-	*			
PCB-58	3.97e+04	0.86	y	32:13	0.90	2.71	J	-	-	*			
PCB-63	3.11e+05	0.76	y	32:22	1.02	18.7		-	-	*			
PCB-74	4.17e+06	0.76	y	32:39	1.13	226		-	-	*			
PCB-61	9.83e+06	0.80	y	32:50	1.07	562		-	-	*	Co-elute PCB 70		
PCB-70	9.83e+06	0.80	y	32:50	1.07	562		-	-	*	Co-elute PCB 61		
PCB-76	8.56e+06	0.78	y	33:02	1.00	526		-	-	*	Co-elute PCB 66		
PCB-66	8.56e+06	0.78	y	33:02	1.00	526		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.10	*		712	980	0.964			
PCB-55	2.83e+05	0.81	y	33:32	1.07	16.2		-	-	*			
13C-PCB-54	3.27e+07	0.81	y	25:35	1.28	1520					76.2	3.58e+06	4.40e+06
PCB-104	*	*	n	NotFnd	1.27	*		284	328	0.643			
PCB-96	9.29e+04	1.65	y	31:25	1.13	7.33		-	-	*			
PCB-103	1.82e+05	1.54	y	31:48	0.97	16.8		-	-	*			
PCB-100	7.74e+04	1.50	y	32:10	0.98	7.08		-	-	*			
PCB-94	3.46e+04	1.44	y	32:35	0.87	3.56	J	-	-	*			
PCB-98	*	*	n	NotFnd	1.02	*		284	328	0.805	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.02	*		284	328	0.805	Co-elute PCB 98		
PCB-95	6.06e+06	1.58	y	33:05	0.88	616		-	-	*			
PCB-93	*	*	n	NotFnd	0.81	*		284	328	1.01			
PCB-88	1.16e+06	1.65	y	33:28	0.91	114		-	-	*	Co-elute PCB 91		
PCB-91	1.16e+06	1.65	y	33:28	0.91	114		-	-	*	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.12	*		284	328	0.731			
13C-PCB-104	2.23e+07	1.61	y	30:05	0.76	1760					87.9	2.35e+06	1.41e+06
13C-PCB-28	5.86e+07	0.98	y	26:41	1.88	1870					93.4	6.23e+06	5.85e+06
13C-PCB-52	3.35e+07	0.79	y	28:58	-	24.7							

PCB-56	8.23e+06	0.81	y	33:59	1.26	284	-	-	*			Co-elute PCB 60
PCB-60	8.23e+06	0.81	y	33:59	1.26	284	-	-	*			Co-elute PCB 56
PCB-79	3.38e+05	0.82	y	35:00	1.19	12.4	-	-	*			
PCB-78	*	*	n	NotFnd	1.13	*	500	640	0.579			
PCB-81	5.00e+05	0.79	y	36:12	1.25	17.6	-	-	*			
13C-PCB-81	4.55e+07	0.80	y	36:10	1.79	2010				100	3.90e+06	4.90e+06
PCB-77	1.28e+06	0.81	y	36:46	1.17	47.0	-	-	*			
13C-PCB-77	4.64e+07	0.80	y	36:44	1.72	2130				106	3.89e+06	4.78e+06
PCB-155	*	*	n	NotFnd	1.21	*	232	164	0.404			
PCB-150	5.16e+04	1.37	y	35:25	1.07	5.25	-	-	*			
PCB-152	*	*	n	NotFnd	1.04	*	232	164	0.473			
PCB-145	*	*	n	NotFnd	1.09	*	232	164	0.452			
PCB-136	1.98e+06	1.32	y	36:36	0.97	222	-	-	*			
PCB-148	*	*	n	NotFnd	0.86	*	232	164	0.571			
PCB-154	2.69e+05	1.31	y	37:10	1.02	28.9	-	-	*			
13C-PCB-155	1.83e+07	1.33	y	34:13	0.83	1730				86.5	2.31e+06	1.73e+06
13C-PCB-111	3.04e+07	1.60	y	36:18	1.23	1940				97.1	3.65e+06	2.27e+06
13C-PCB-101	2.54e+07	1.65	y	34:40	-	19.4						
PCB-84	4.32e+06	1.58	y	34:20	0.58	327	-	-	*			Co-elute PCB 92
PCB-92	4.32e+06	1.58	y	34:20	0.58	327	-	-	*			Co-elute PCB 84
PCB-89	1.29e+05	1.47	y	34:30	0.56	10.2	-	-	*			
PCB-90	1.32e+07	1.60	y	34:41	0.66	874	-	-	*			Co-elute PCB 101
PCB-101	1.32e+07	1.60	y	34:41	0.66	874	-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.69	*	830	770	1.26			
PCB-99	6.12e+06	1.58	y	35:00	0.75	357	-	-	*			
PCB-119	4.55e+05	1.54	y	35:27	0.79	25.3	-	-	*			
PCB-83	5.62e+05	1.58	y	35:36	0.67	36.7	-	-	*			Co-elute PCB 112
PCB-112	5.62e+05	1.58	y	35:36	0.67	36.7	-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.80	*	830	770	1.08			
PCB-97	3.38e+06	1.56	y	35:56	0.72	204	-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*	830	770	1.30			
PCB-125	5.08e+06	1.59	y	36:11	0.73	304	-	-	*			Co-elute PCB 87/117
PCB-87	5.08e+06	1.59	y	36:11	0.73	304	-	-	*			Co-elute PCB 125/117
PCB-117	5.08e+06	1.59	y	36:11	0.73	304	-	-	*			Co-elute PCB 125/87
PCB-111	3.45e+05	1.53	y	36:20	0.91	16.6	-	-	*			Co-elute PCB 115
PCB-115	3.45e+05	1.53	y	36:20	0.91	16.6	-	-	*			Co-elute PCB 111
PCB-85	2.05e+06	1.58	y	36:26	0.69	129	-	-	*			Co-elute PCB 116
PCB-116	2.05e+06	1.58	y	36:26	0.69	129	-	-	*			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.86	*	830	770	1.01			
PCB-110	1.62e+07	1.59	y	36:49	0.85	830	-	-	*			
PCB-82	1.08e+06	1.57	y	37:24	0.51	92.1	-	-	*			
PCB-124	1.04e+06	1.60	y	38:05	1.24	36.7	-	-	*			
PCB-108	1.71e+06	1.59	y	38:15	1.24	60.4	-	-	*			Co-elute PCB 107
PCB-107	1.71e+06	1.59	y	38:15	1.24	60.4	-	-	*			Co-elute PCB 108
PCB-123	3.74e+05	1.56	y	38:23	1.50	10.9	-	-	*			
13C-PCB-123	4.55e+07	1.63	y	38:21	1.55	1950				97.3	6.07e+06	3.69e+06
PCB-118	2.26e+07	1.61	y	38:33	1.11	859	-	-	*			Co-elute PCB 106
PCB-106	2.26e+07	1.61	y	38:33	1.11	859	-	-	*			Co-elute PCB 118
13C-PCB-118	4.72e+07	1.65	y	38:31	1.75	1800				89.8	5.96e+06	3.63e+06
PCB-114	6.31e+05	1.48	y	39:09	1.30	21.0	-	-	*			
13C-PCB-114	4.61e+07	1.64	y	39:09	1.58	1940				96.9	5.74e+06	3.49e+06
PCB-122	3.18e+05	1.48	y	39:17	1.17	11.9	-	-	*			
PCB-105	9.41e+06	1.60	y	39:58	1.24	340	-	-	*			
13C-PCB-105	4.46e+07	1.65	y	39:57	1.49	1990				99.7	5.34e+06	3.25e+06

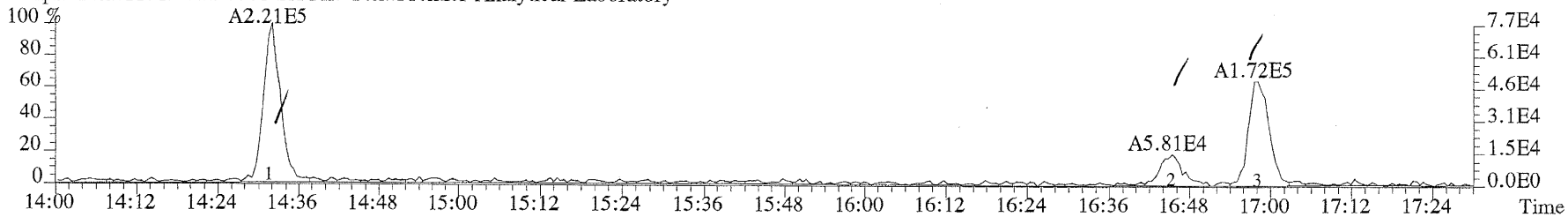
PCB-127	*	*	n	NotFnd	1.09	*	960	930	0.936				
PCB-126	1.48e+05	1.59	y	42:05	1.28	5.26	-	-	*				
13C-PCB-126	4.41e+07	1.66	y	42:05	1.40	2090				105	4.58e+06	2.81e+06	
PCB-151	3.96e+06	1.27	y	37:47	0.78	303	-	-	*				
PCB-135	2.14e+06	1.30	y	38:00	0.91	140	-	-	*				
PCB-144	9.20e+05	1.31	y	38:06	0.91	60.3	-	-	*				
PCB-147	3.68e+05	1.29	y	38:13	0.99	22.3	-	-	*				
PCB-139	1.64e+07	1.26	y	38:28	0.98	1000	-	-	*				Co-elute PCB 149
PCB-149	1.64e+07	1.26	y	38:28	0.98	1000	-	-	*				Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.99	*	710	660	1.08				
PCB-143	8.73e+05	1.27	y	39:04	0.91	56.9	-	-	*				Co-elute PCB 134
PCB-134	8.73e+05	1.27	y	39:04	0.91	56.9	-	-	*				Co-elute PCB 143
PCB-131	5.07e+05	1.32	y	39:20	0.91	33.0	-	-	*				Co-elute PCB 133
PCB-133	5.07e+05	1.32	y	39:20	0.91	33.0	-	-	*				Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.83	*	710	660	1.28				
PCB-165	3.26e+06	1.23	y	39:43	1.09	179	-	-	*				Co-elute PCB 146
PCB-146	3.26e+06	1.23	y	39:43	1.09	179	-	-	*				Co-elute PCB 165
PCB-161	5.35e+06	1.32	y	39:58	1.00	318	-	-	*				Co-elute PCB 132
PCB-132	5.35e+06	1.32	y	39:58	1.00	318	-	-	*				Co-elute PCB 161
PCB-153	2.34e+07	1.27	y	40:05	1.09	1280	-	-	*				
PCB-168	*	*	n	NotFnd	1.19	*	710	660	0.903				
PCB-141	3.65e+06	1.26	y	40:48	0.92	237	-	-	*				
PCB-137	9.22e+05	1.24	y	41:09	0.82	67.2	-	-	*				
PCB-130	1.12e+06	1.30	y	41:16	0.89	75.3	-	-	*				
PCB-138	2.54e+07	1.28	y	41:35	1.20	1260	-	-	*				Co-elute PCB 163/164
PCB-163	2.54e+07	1.28	y	41:35	1.20	1260	-	-	*				Co-elute PCB 138/164
PCB-164	2.54e+07	1.28	y	41:35	1.20	1260	-	-	*				Co-elute PCB 138/163
PCB-158	3.18e+06	1.26	y	41:49	1.21	156	-	-	*				Co-elute PCB 160
PCB-160	3.18e+06	1.26	y	41:49	1.21	156	-	-	*				Co-elute PCB 158
PCB-129	8.07e+05	1.22	y	42:03	0.78	61.4	-	-	*				
PCB-166	1.27e+05	1.13	y	42:30	1.14	6.65	-	-	*				
PCB-159	3.17e+05	1.14	y	42:51	1.20	15.8	-	-	*				
PCB-128	3.67e+06	1.23	y	43:04	1.02	215	-	-	*				Co-elute PCB 162
PCB-162	3.67e+06	1.23	y	43:04	1.02	215	-	-	*				Co-elute PCB 128
PCB-167	1.19e+06	1.21	y	43:27	1.08	66.2	-	-	*				
13C-PCB-167	3.31e+07	1.29	y	43:27	1.16	1900				94.8	3.41e+06	2.63e+06	
PCB-156	3.01e+06	1.24	y	44:41	1.13	167	-	-	*				
13C-PCB-156	3.20e+07	1.28	y	44:40	1.10	1930				96.6	3.42e+06	2.69e+06	
PCB-157	7.11e+05	1.25	y	44:56	1.21	34.6	-	-	*				
13C-PCB-157	3.41e+07	1.30	y	44:56	1.13	2020				101	3.45e+06	2.65e+06	
PCB-169	*	*	n	NotFnd	1.13	*	710	660	0.810				
13C-PCB-169	3.49e+07	1.31	y	46:48	1.06	2190				109	4.23e+06	3.25e+06	

FAL ID: 11719-011-0001-SA Filename: 31JUL18Z Sam:9 Acquired: 31-JUL-18 18:01:29 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SC-ENR+AC-CB-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.000

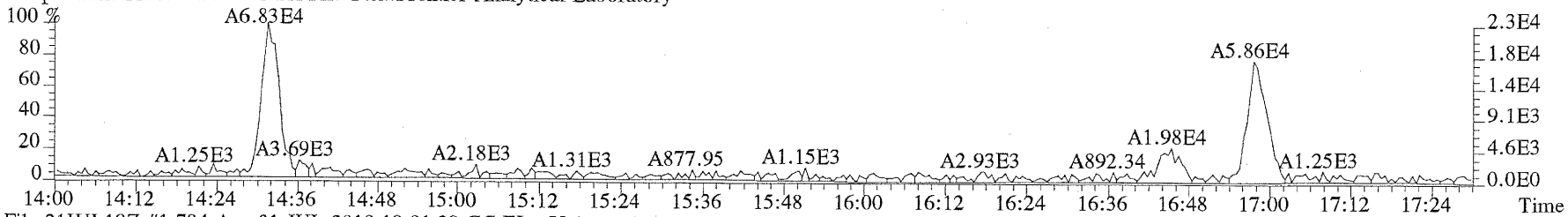
PCB-188	*	*	n	NotFnd	1.18	*	876	440	1.16			
13C-PCB-188	2.16e+07	1.08	y	39:42	0.83	1730				86.3	2.50e+06	2.32e+06
PCB-184	*	*	n	NotFnd	1.27	*	876	440	0.893			
PCB-179	2.76e+06	1.04	y	40:53	1.16	202	-	-	*			
PCB-176	8.84e+05	1.14	y	41:19	1.13	66.2	-	-	*			
PCB-186	*	*	n	NotFnd	1.20	*	876	440	0.951			
PCB-178	9.52e+05	1.06	y	42:21	0.82	99.1	-	-	*			
PCB-175	2.45e+05	1.02	y	42:41	0.85	24.5	-	-	*			
PCB-187	6.75e+06	1.07	y	42:51	0.97	590	-	-	*		Co-elute PCB 182	
PCB-182	6.75e+06	1.07	y	42:51	0.97	590	-	-	*		Co-elute PCB 187	
PCB-183	3.44e+06	1.12	y	43:09	0.92	317	-	-	*			
PCB-185	6.51e+05	1.09	y	43:47	0.87	63.4	-	-	*			
PCB-174	4.95e+06	1.08	y	44:07	0.88	476	-	-	*			
PCB-181	*	*	n	NotFnd	0.86	*	876	440	1.32			
PCB-177	2.87e+06	1.12	y	44:23	0.78	313	-	-	*			
PCB-171	1.45e+06	1.08	y	44:40	0.84	147	-	-	*			
PCB-173	8.69e+04	1.09	y	45:04	0.75	9.90	-	-	*			
PCB-172	8.26e+05	1.14	y	45:27	0.79	89.1	-	-	*			
PCB-192	*	*	n	NotFnd	1.11	*	876	440	1.02			
PCB-180	1.32e+07	1.07	y	45:49	1.07	1040	-	-	*			
PCB-193	9.88e+05	1.11	y	45:59	1.12	74.7	-	-	*			
PCB-191	3.21e+05	1.17	y	46:12	1.06	25.7	-	-	*			
PCB-170	5.38e+06	1.09	y	47:06	0.78	584	-	-	*			
PCB-190	1.76e+06	1.07	y	47:16	1.05	142	-	-	*			
PCB-189	2.98e+05	1.10	y	48:29	1.20	19.5	-	-	*			
13C-PCB-189	2.54e+07	1.08	y	48:27	0.72	2330				117	3.60e+06	3.38e+06
PCB-202	6.44e+05	0.95	y	44:50	1.07	88.9	-	-	*			
PCB-201	4.85e+05	0.89	y	45:16	0.97	73.3	-	-	*			
PCB-204	*	*	n	NotFnd	1.00	*	184	248	0.721			
PCB-197	1.44e+05	0.89	y	45:41	1.07	19.8	-	-	*			
PCB-200	5.31e+05	0.84	y	46:25	1.00	78.2	-	-	*			
PCB-198	1.40e+05	0.80	y	47:38	0.77	26.8	-	-	*			
PCB-199	3.60e+06	0.93	y	47:42	0.74	721	-	-	*			
PCB-203	4.45e+06	0.90	y	47:57	0.85	772	-	-	*		Co-elute PCB 196	
PCB-196	4.45e+06	0.90	y	47:57	0.85	772	-	-	*		Co-elute PCB 203	
13C-PCB-202	1.36e+07	0.93	y	44:48	0.48	1890				94.3	1.46e+06	1.54e+06
13C-PCB-178	1.70e+07	1.10	y	42:20	0.61	1840				92.1	1.88e+06	1.72e+06
13C-PCB-138	3.01e+07	1.29	y	41:34	-	21.7						
PCB-195	3.30e+06	0.95	y	49:03	0.90	188	-	-	*			
PCB-194	8.80e+06	0.92	y	49:52	0.92	492	-	-	*			
PCB-205	6.54e+05	1.02	y	50:07	1.19	28.3	-	-	*			
13C-PCB-205	3.90e+07	0.90	y	50:06	1.25	1910				95.4	5.64e+06	6.38e+06
PCB-208	1.07e+06	1.34	y	49:10	0.99	64.3	-	-	*			
13C-PCB-208	3.37e+07	0.80	y	49:09	1.27	1620				81.0	4.54e+06	5.63e+06
PCB-207	6.40e+05	1.43	y	49:27	1.01	42.6	-	-	*			
PCB-206	4.55e+06	1.28	y	51:19	0.96	364	-	-	*			
13C-PCB-206	2.59e+07	0.79	y	51:18	0.93	1690				84.6	3.29e+06	4.16e+06
PCB-209	7.32e+05	1.23	y	52:28	1.13	44.4	-	-	*			
13C-PCB-209	2.93e+07	1.20	y	52:28	1.04	1720				86.1	4.60e+06	3.76e+06
13C-PCB-194	3.28e+07	0.91	y	49:52	-	24.4						

Analyst: _____ Date: 8/20/18

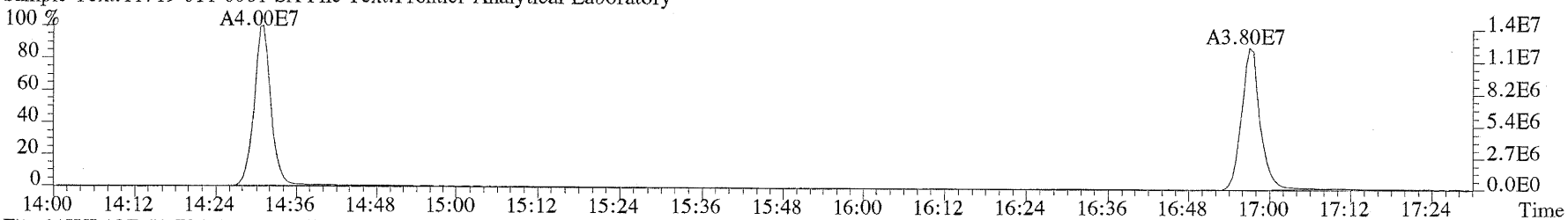
File:31JUL18Z #1-784 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



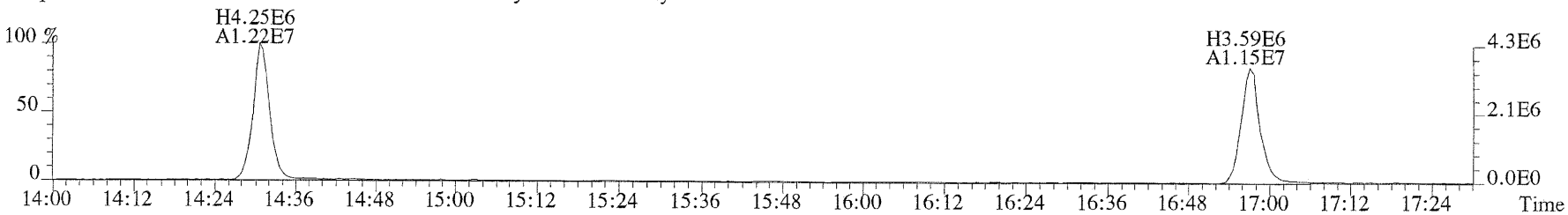
File:31JUL18Z #1-784 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



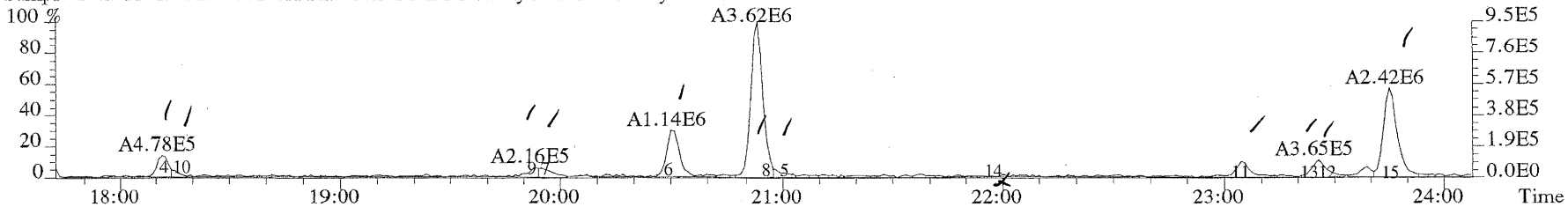
File:31JUL18Z #1-784 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



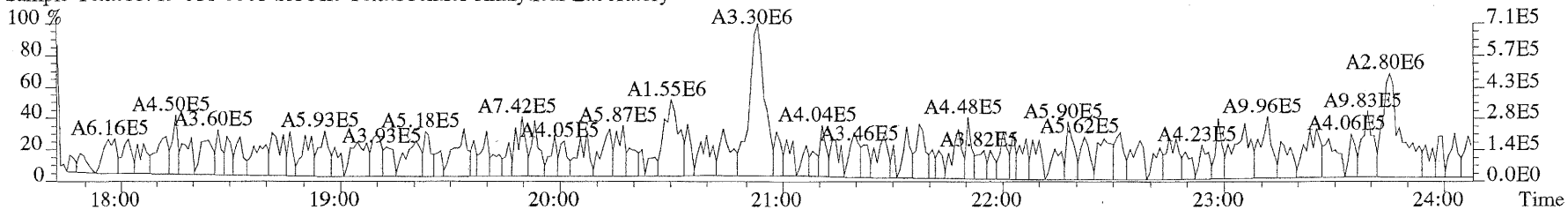
File:31JUL18Z #1-784 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



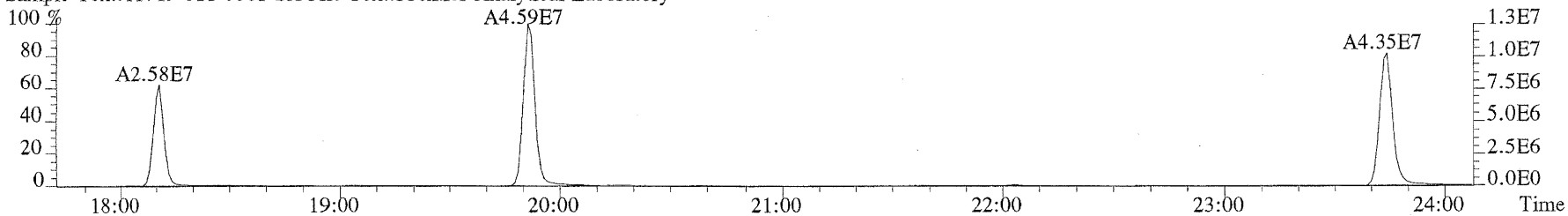
File:31JUL18Z #1-520 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



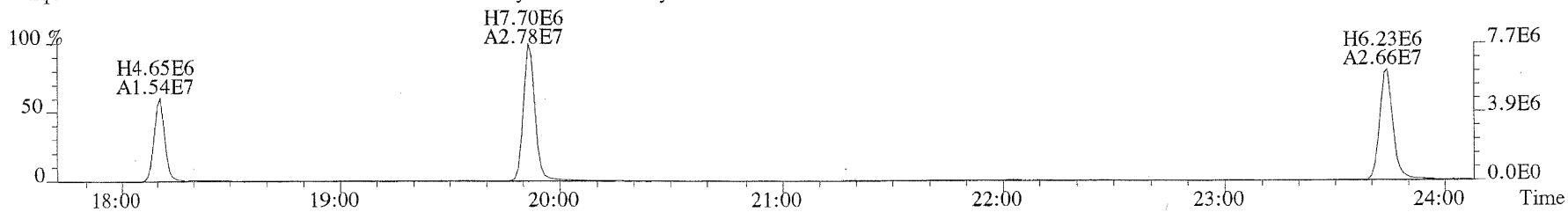
File:31JUL18Z #1-520 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



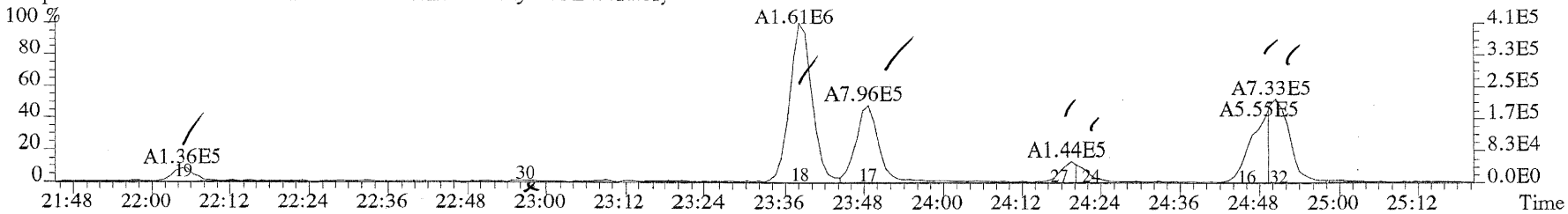
File:31JUL18Z #1-520 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



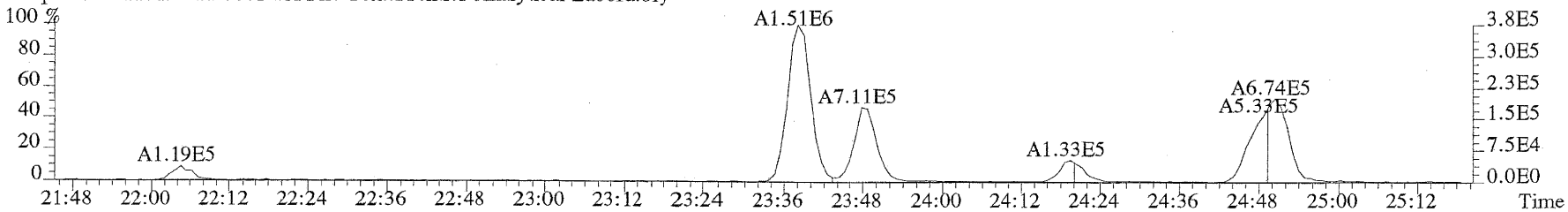
File:31JUL18Z #1-520 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



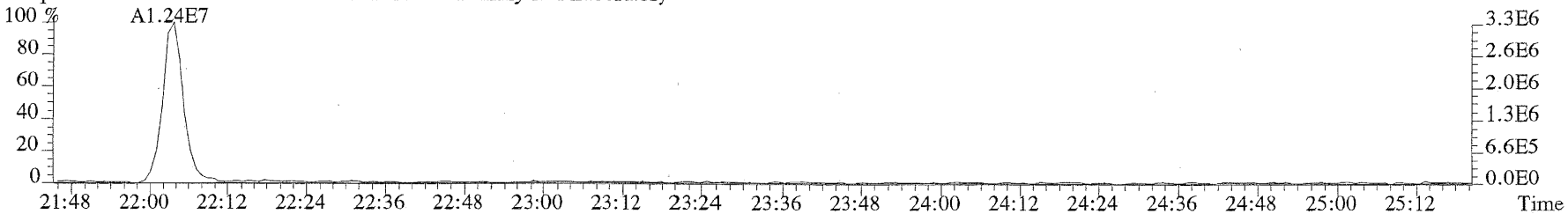
File:31JUL18Z #1-520 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



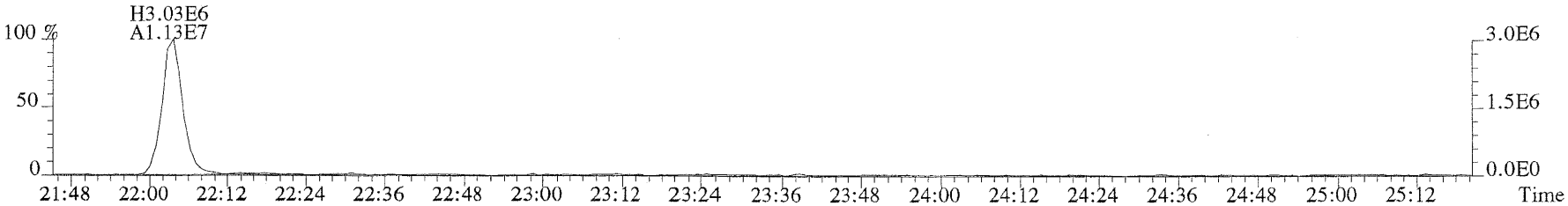
File:31JUL18Z #1-520 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



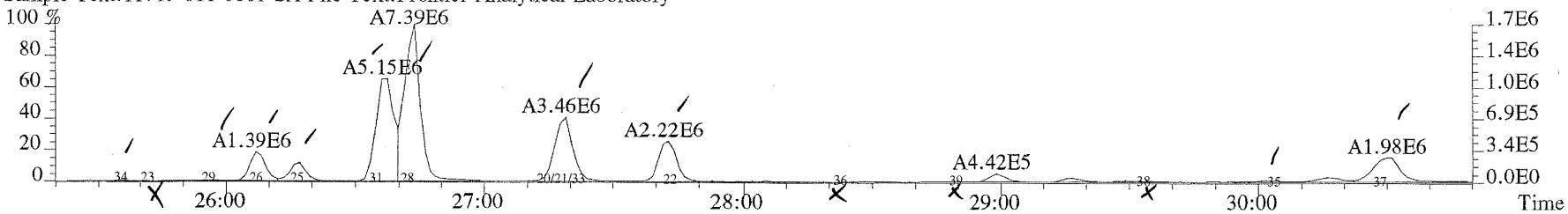
File:31JUL18Z #1-520 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



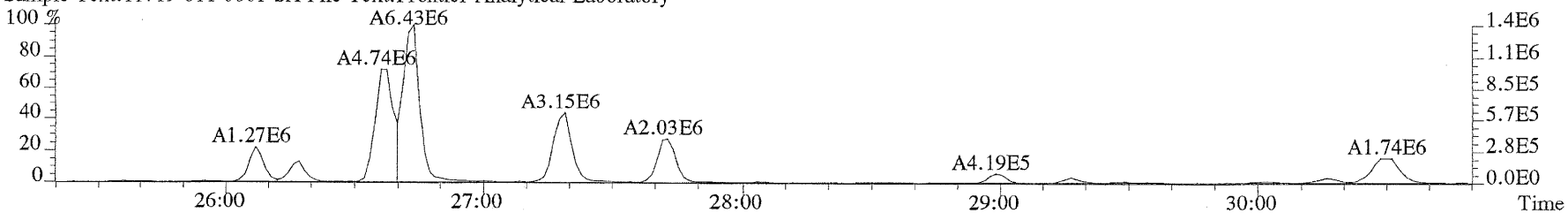
File:31JUL18Z #1-520 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



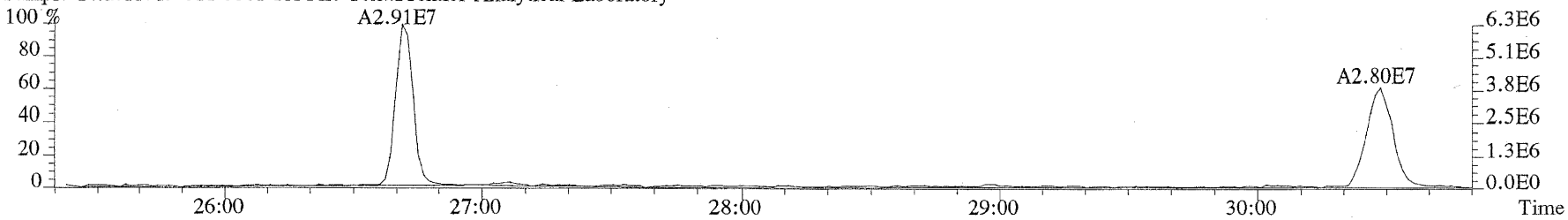
File:31JUL18Z #1-401 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 18:01:29 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:11719-011-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 18:01:29 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:11719-011-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
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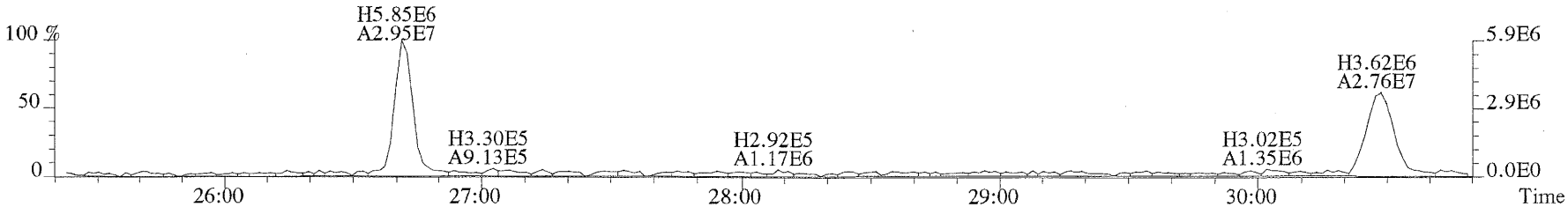
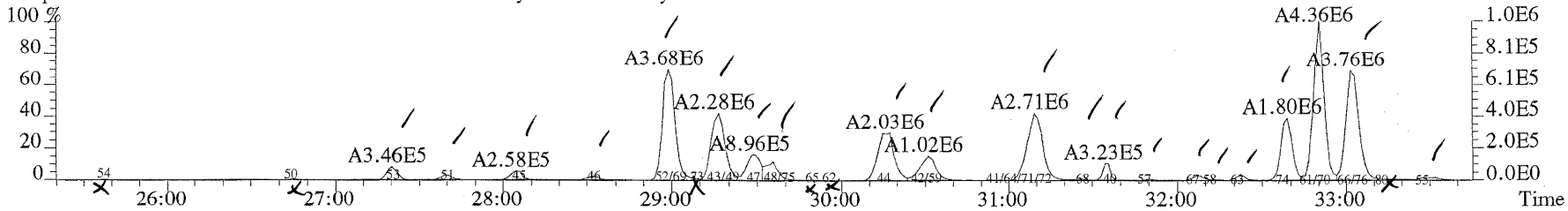
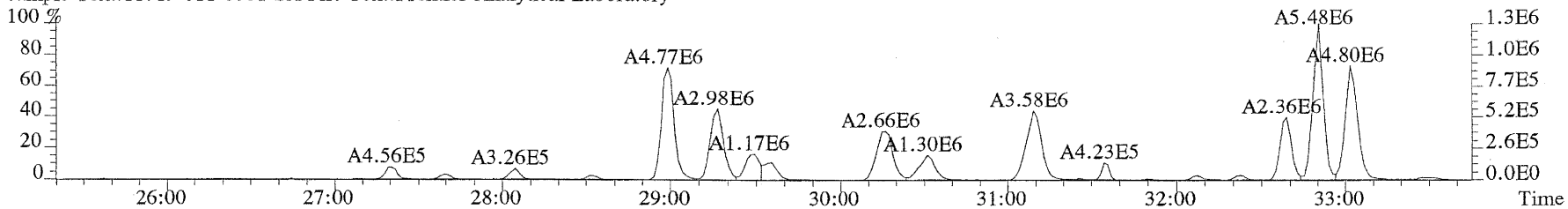
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



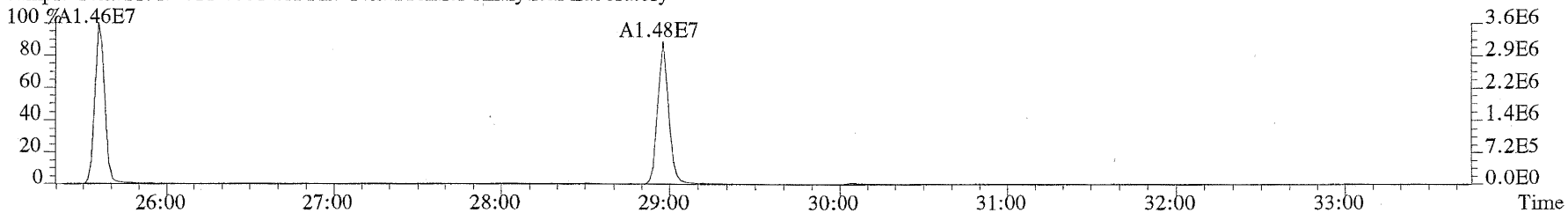
File:31JUL18Z #1-401 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



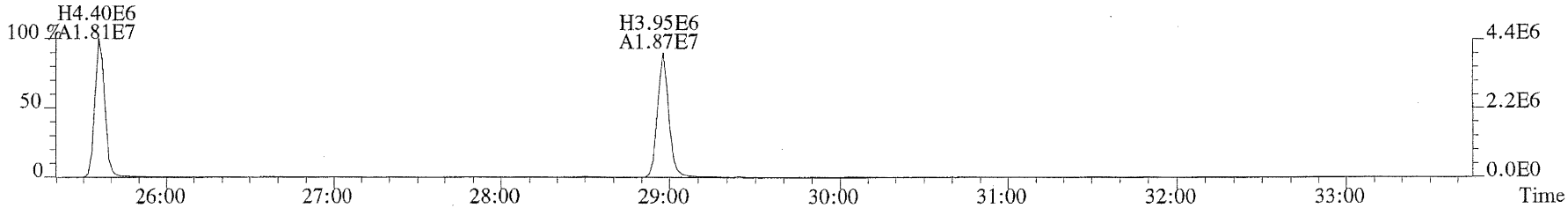
File:31JUL18Z #1-401 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



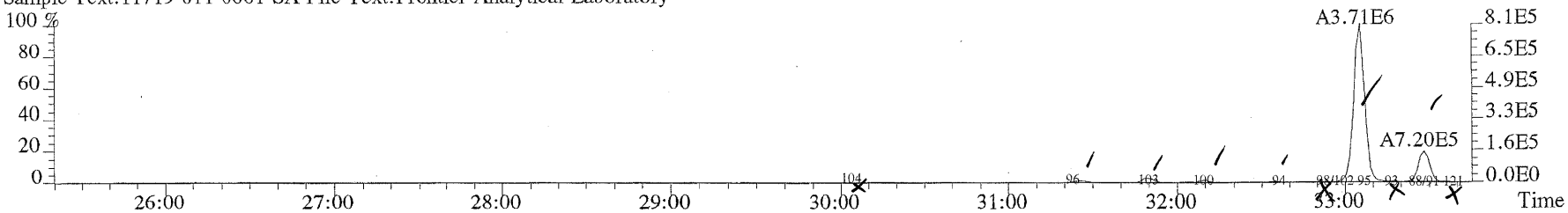
File:31JUL18Z #1-401 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



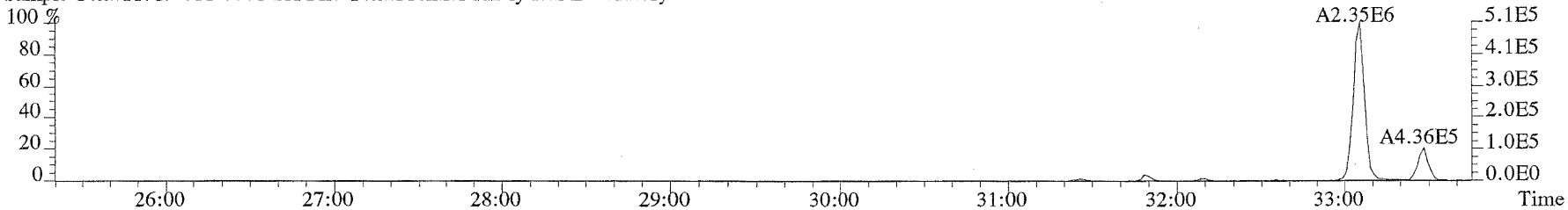
File:31JUL18Z #1-401 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



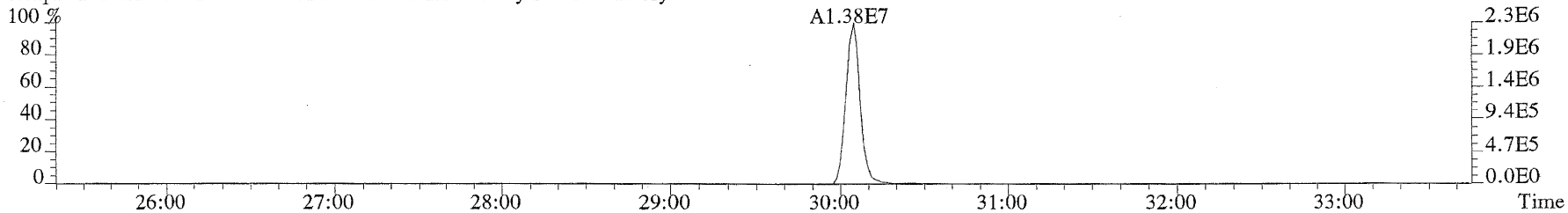
File:31JUL18Z #1-401 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



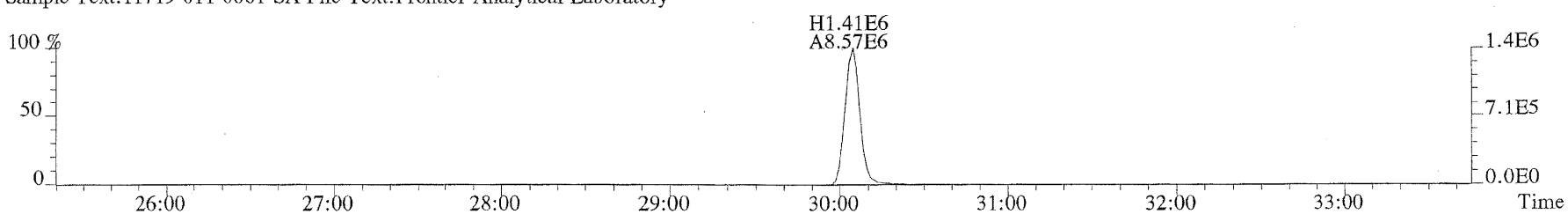
File:31JUL18Z #1-401 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



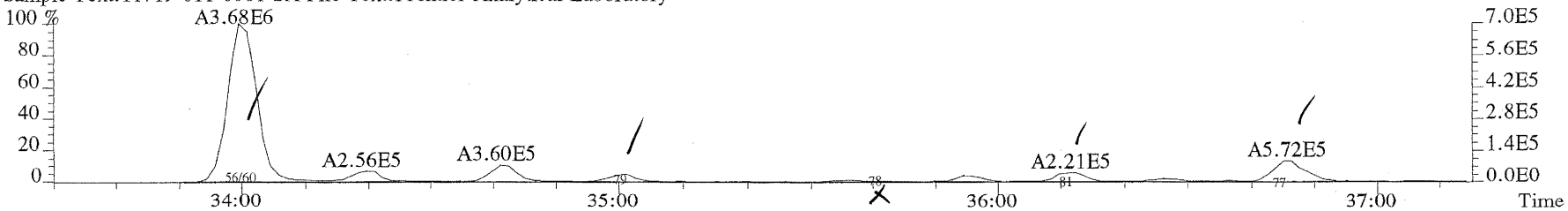
File:31JUL18Z #1-401 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



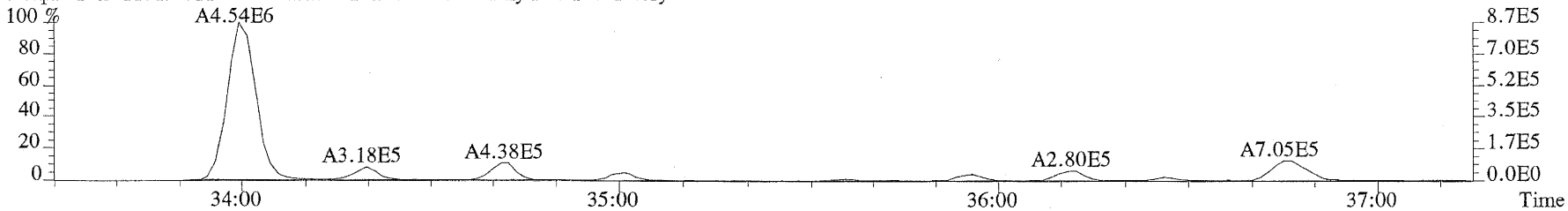
File:31JUL18Z #1-401 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



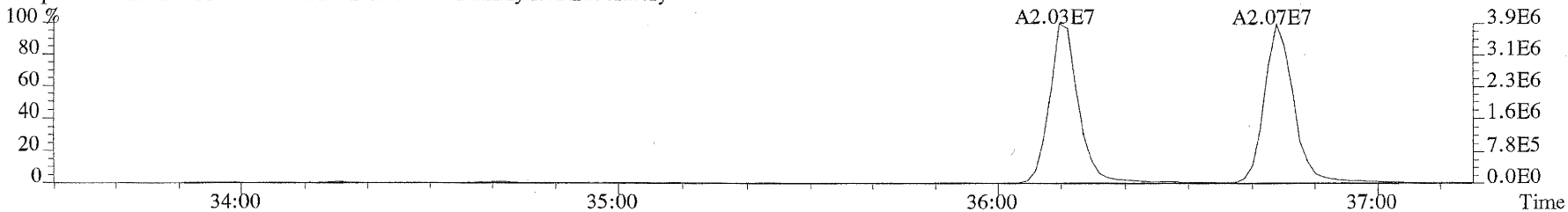
File:31JUL18Z #1-183 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



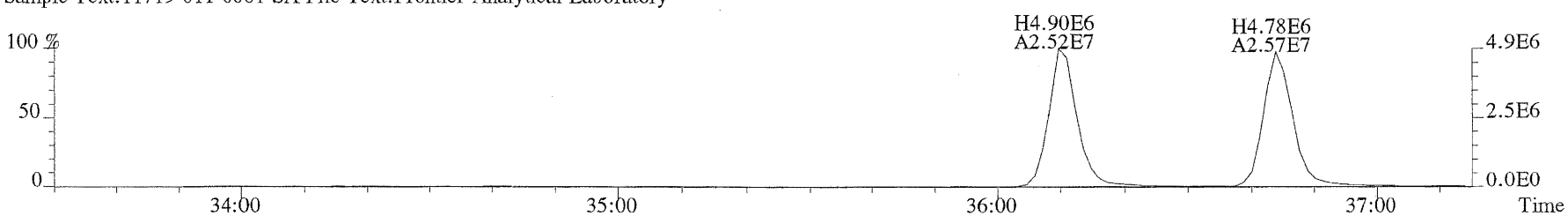
File:31JUL18Z #1-183 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



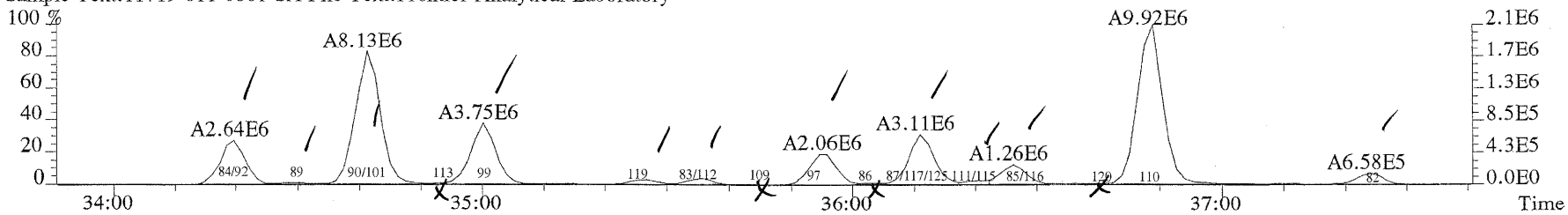
File:31JUL18Z #1-183 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



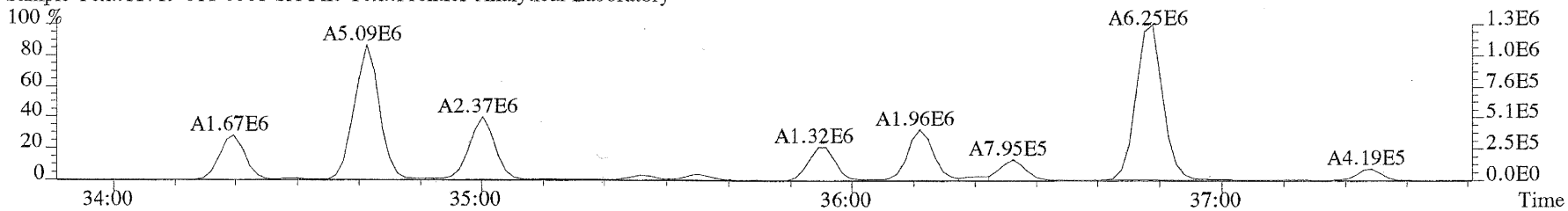
File:31JUL18Z #1-183 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



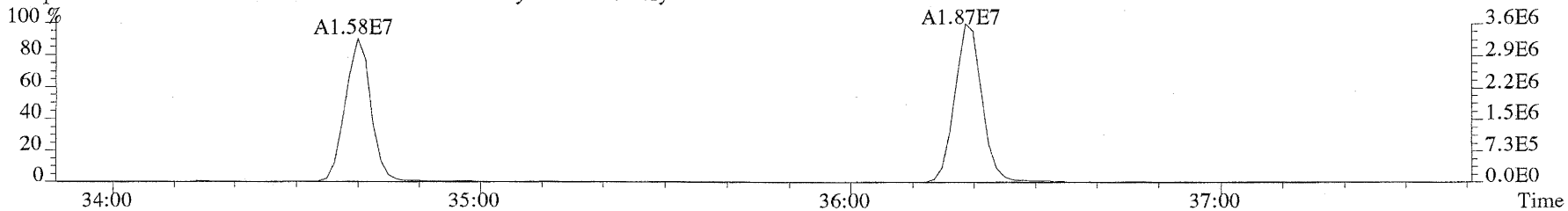
File:31JUL18Z #1-183 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



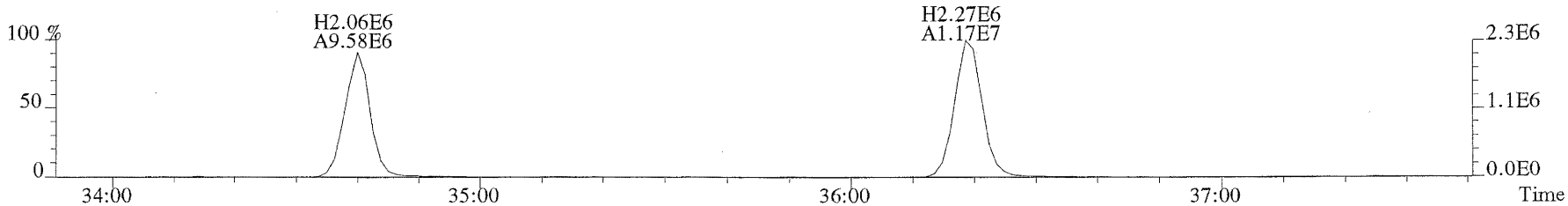
File:31JUL18Z #1-183 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



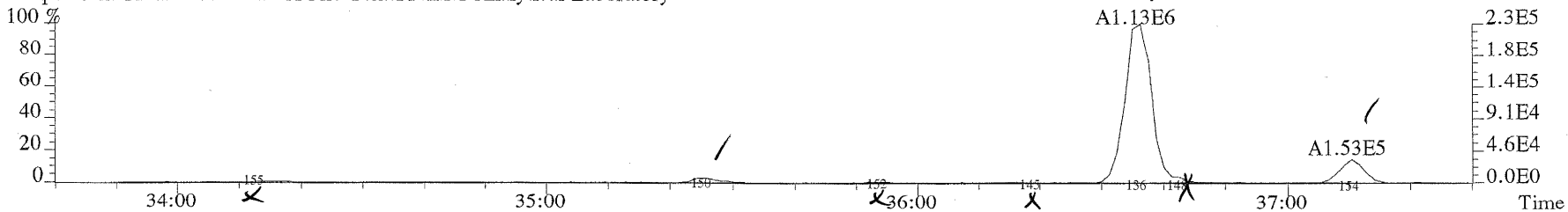
File:31JUL18Z #1-183 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



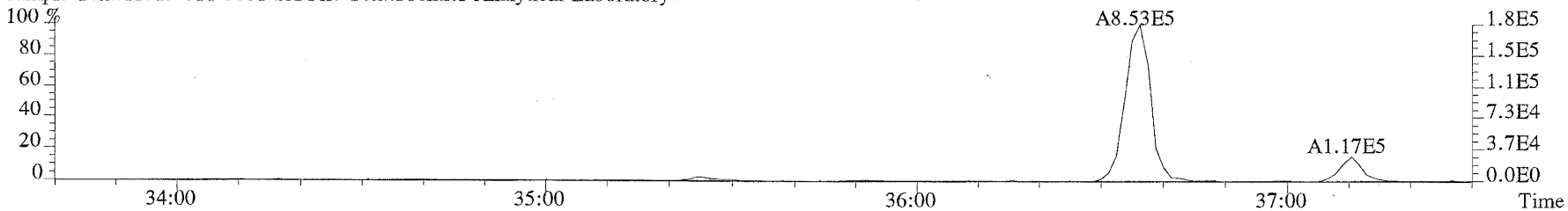
File:31JUL18Z #1-183 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



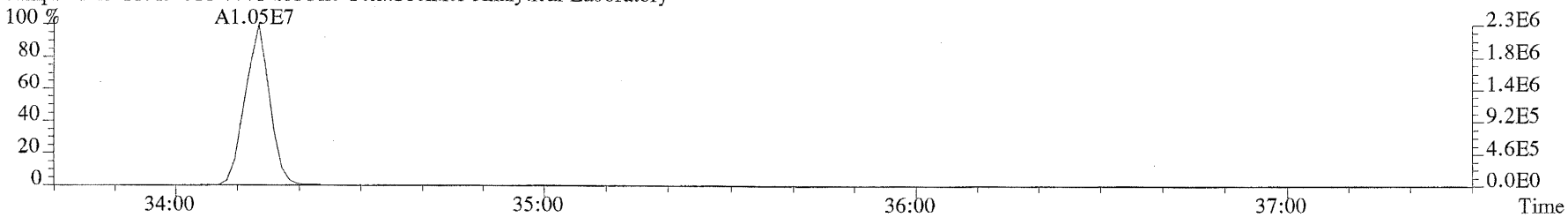
File:31JUL18Z #1-183 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



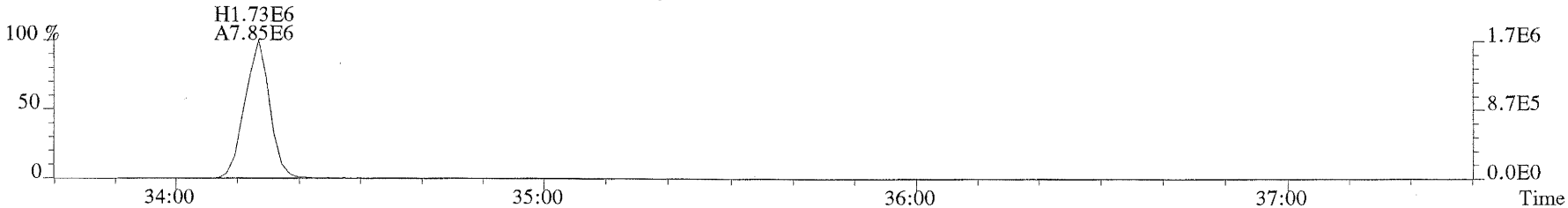
File:31JUL18Z #1-183 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



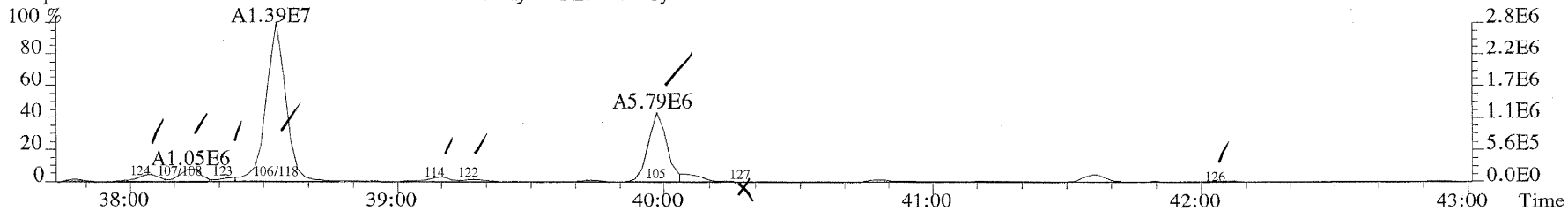
File:31JUL18Z #1-183 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



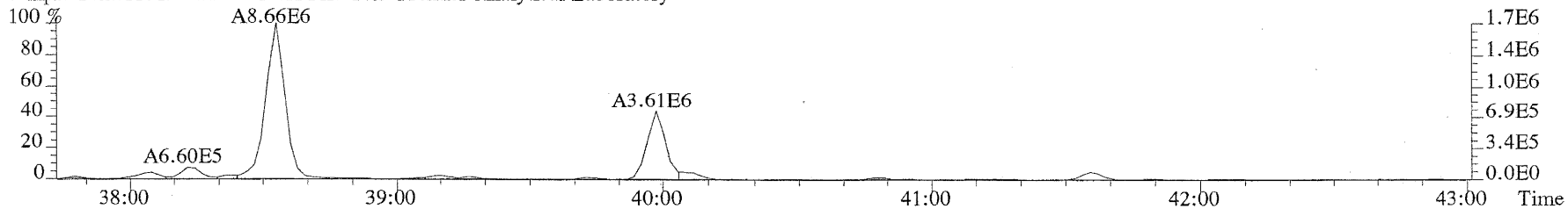
File:31JUL18Z #1-183 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



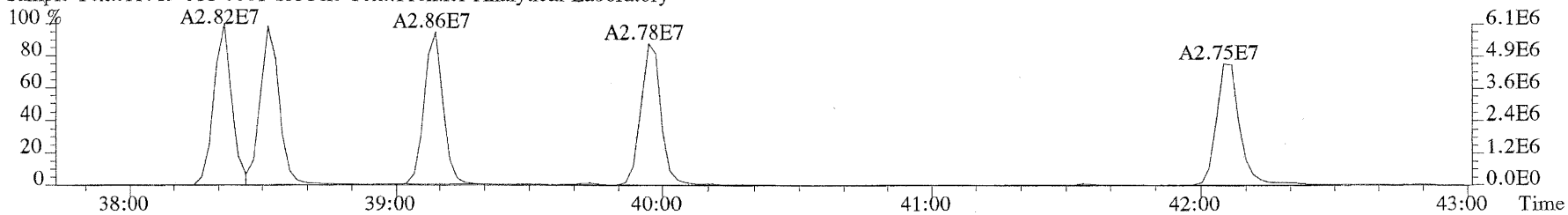
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



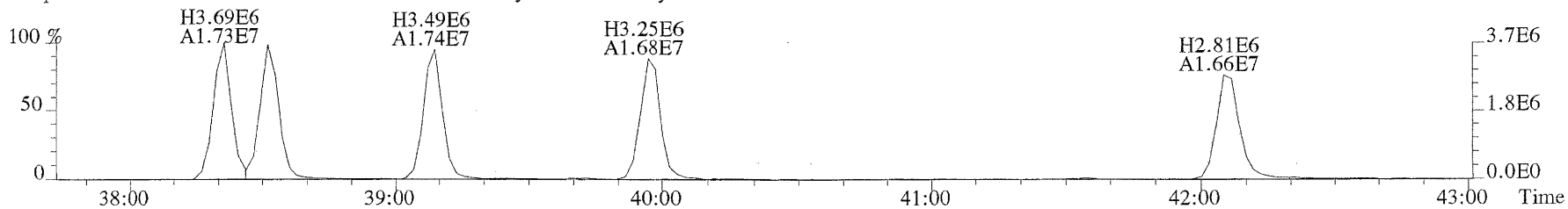
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



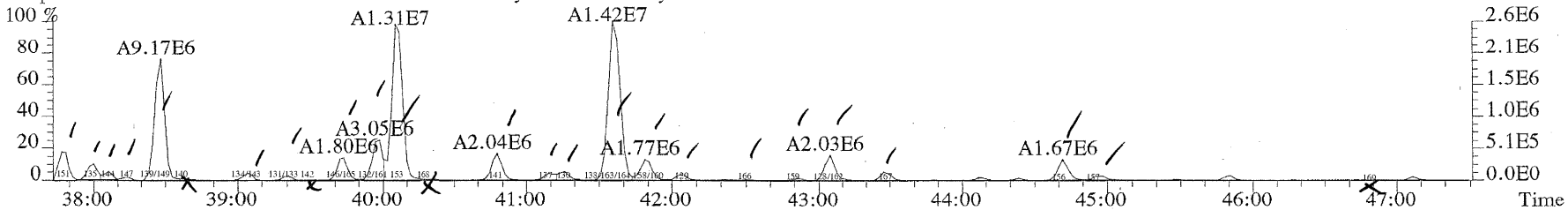
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



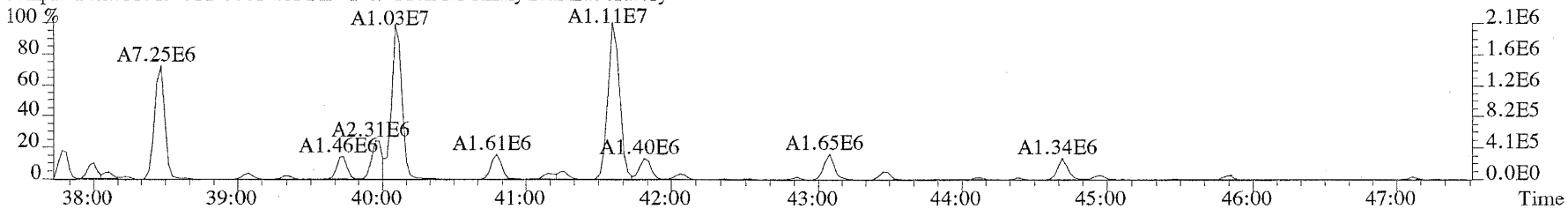
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



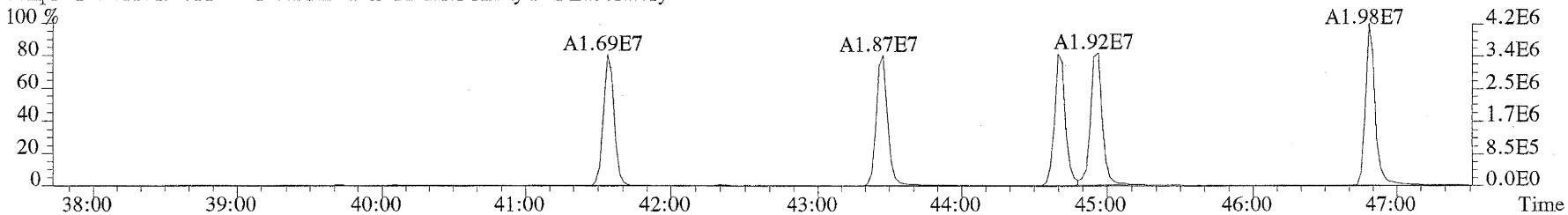
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



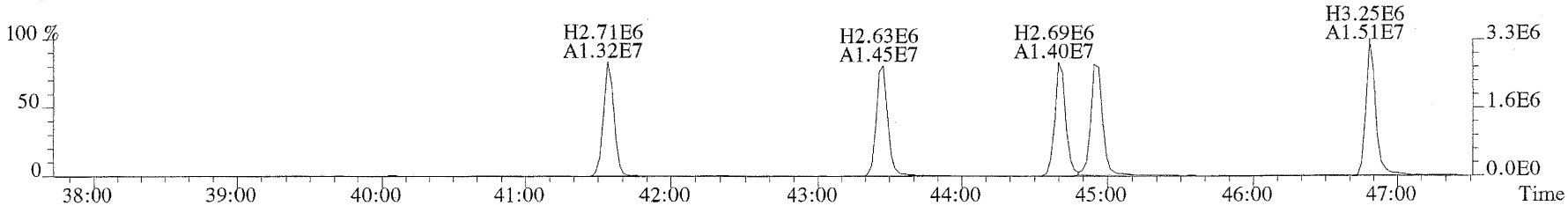
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



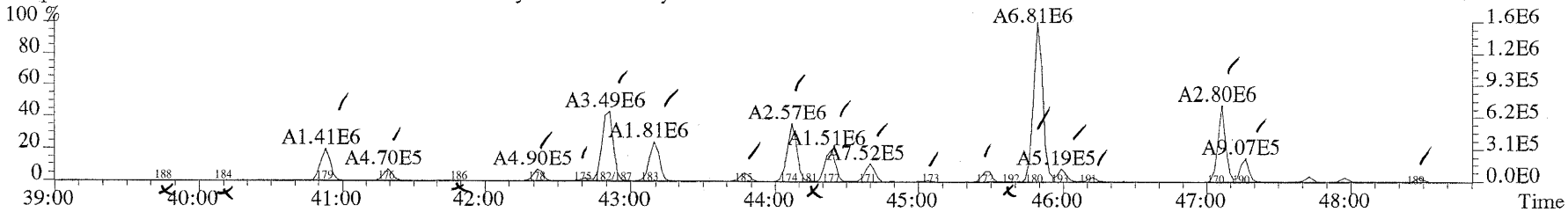
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



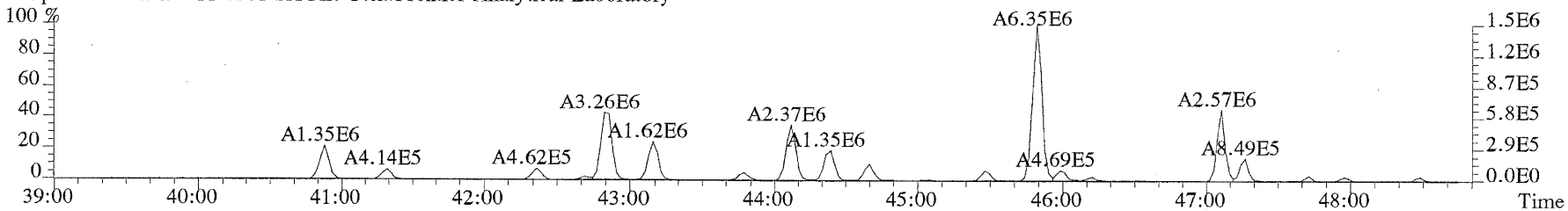
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



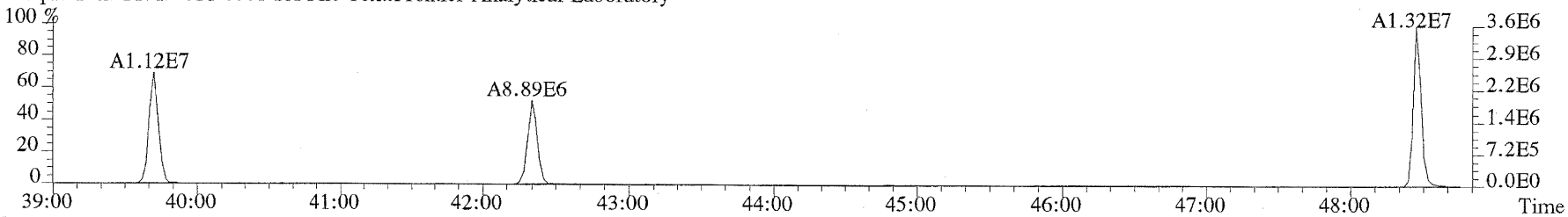
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



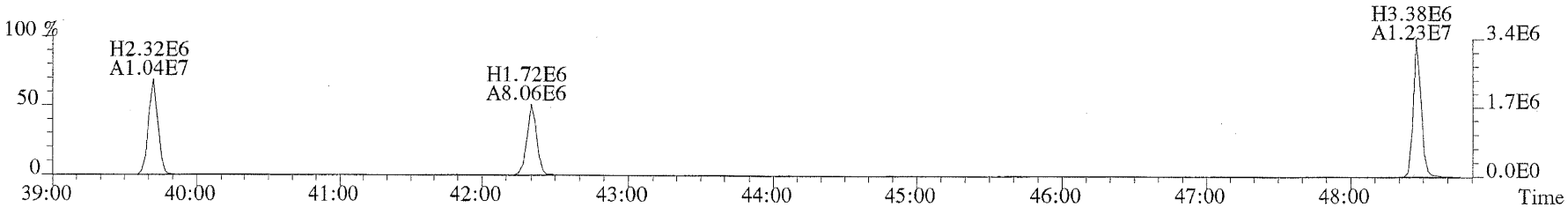
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



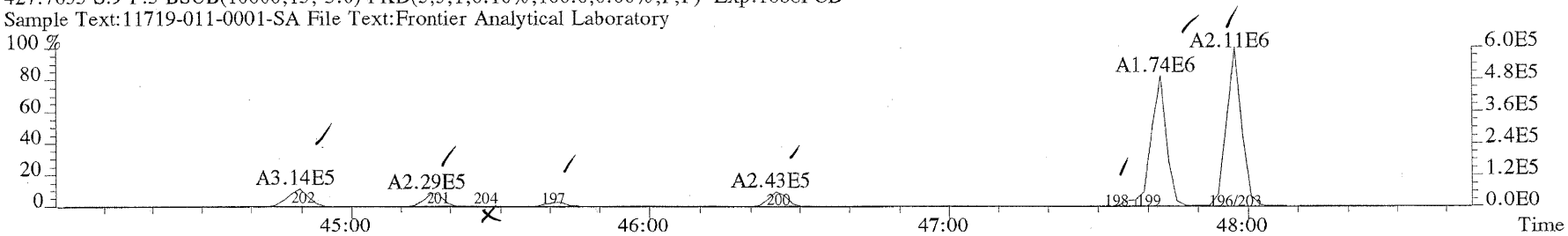
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



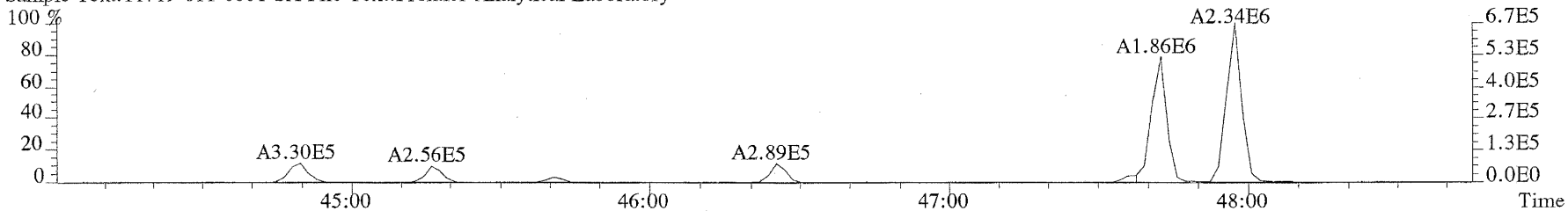
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



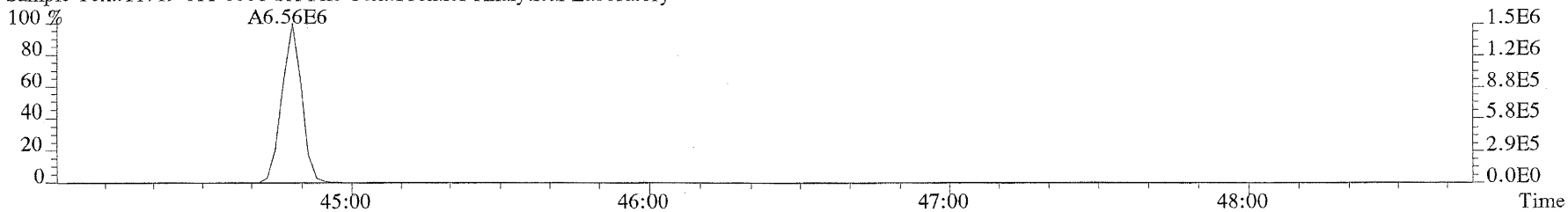
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



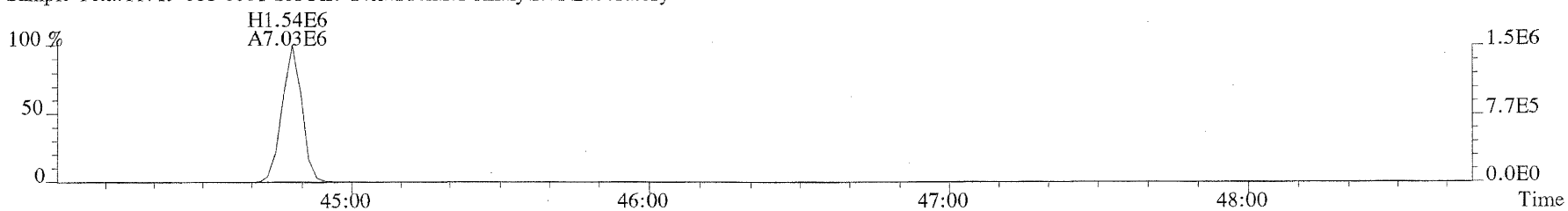
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



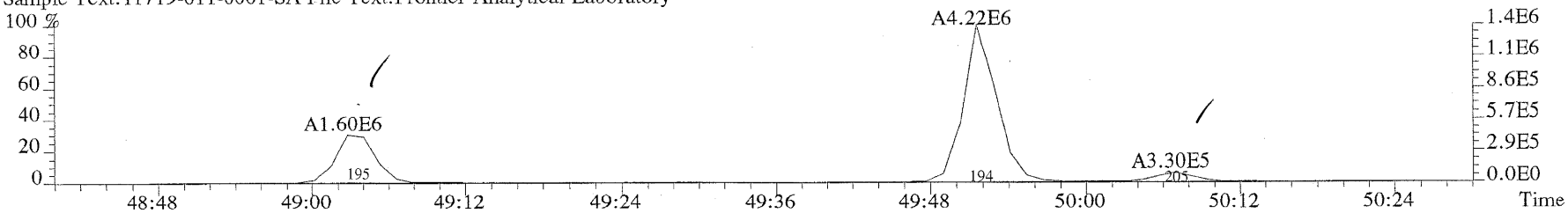
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



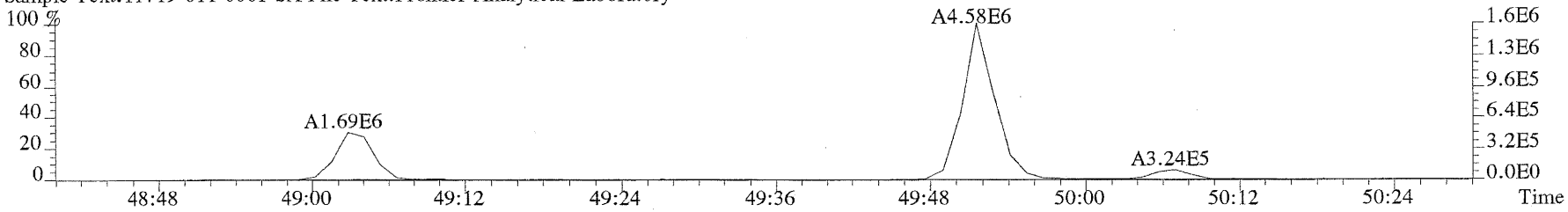
File:31JUL18Z #1-403 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



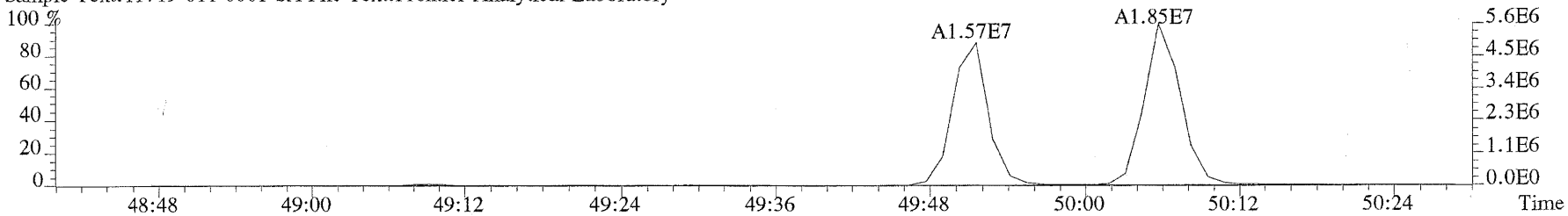
File:31JUL18Z #1-315 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



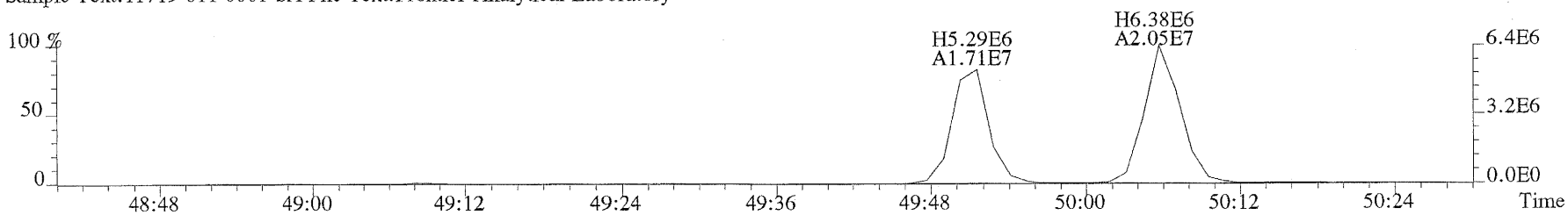
File:31JUL18Z #1-315 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



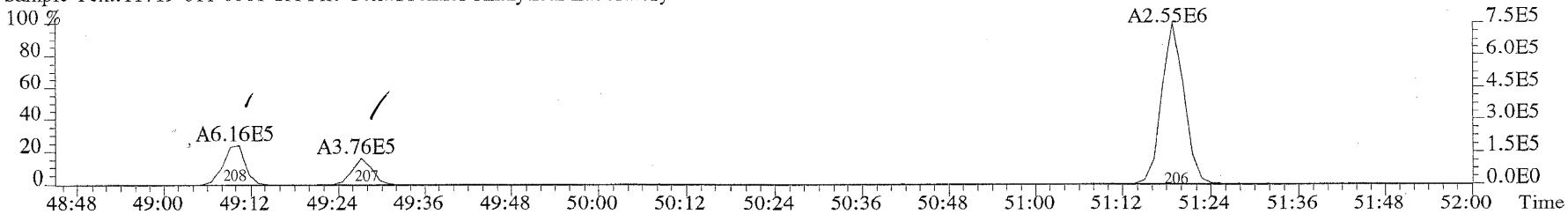
File:31JUL18Z #1-315 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



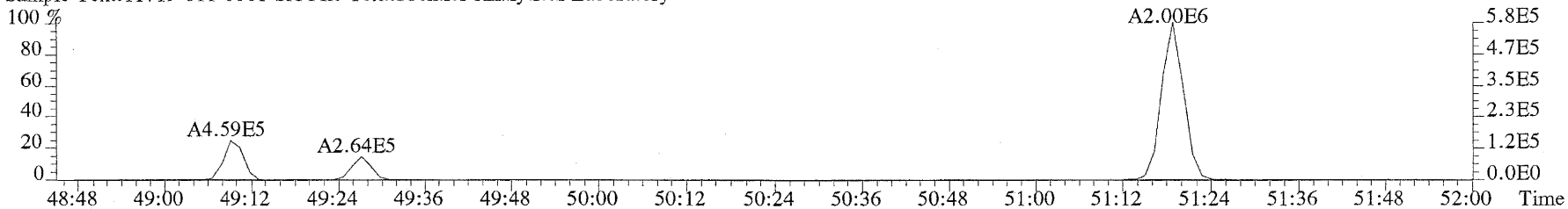
File:31JUL18Z #1-315 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



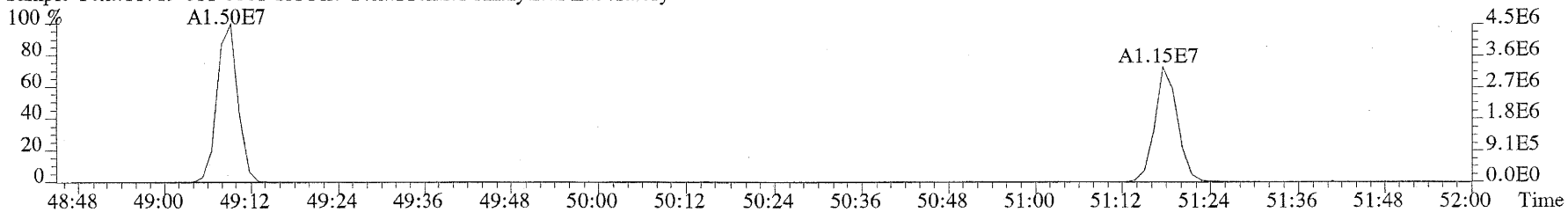
File:31JUL18Z #1-315 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



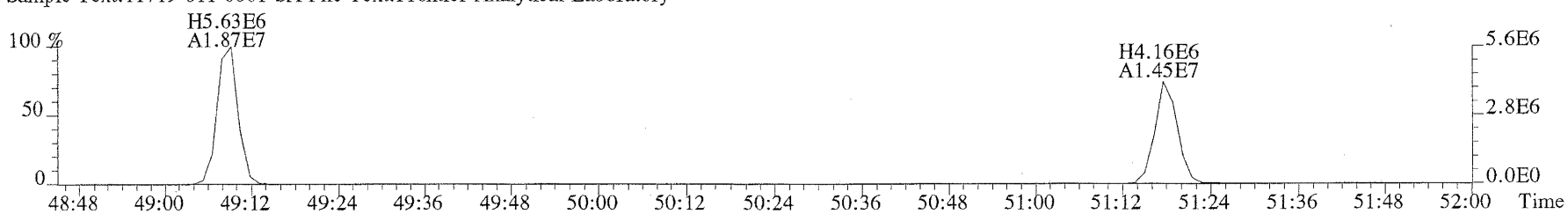
File:31JUL18Z #1-315 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



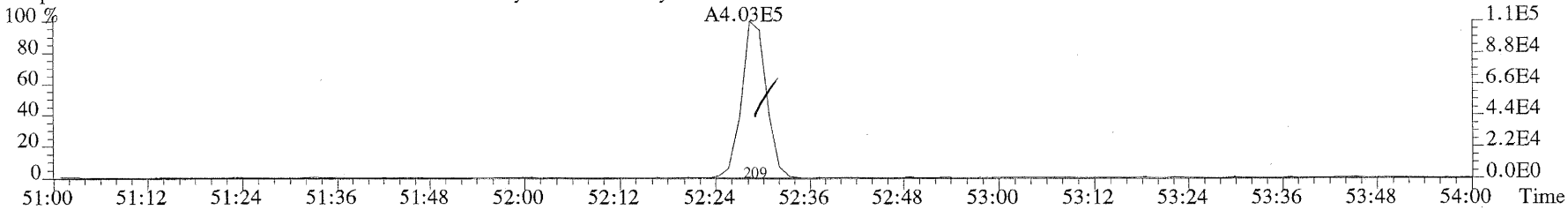
File:31JUL18Z #1-315 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



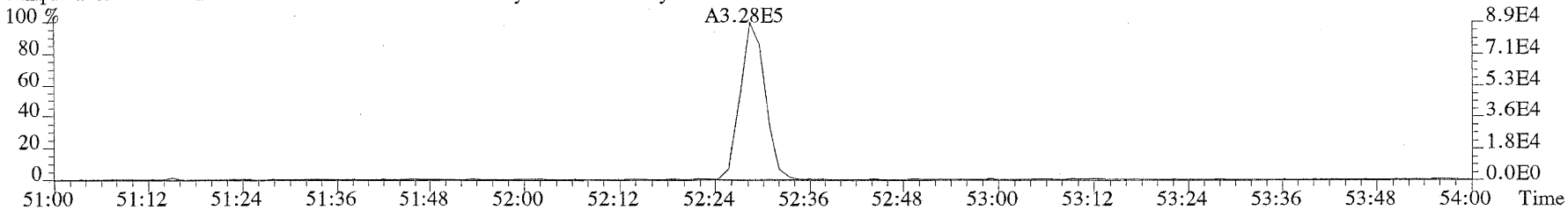
File:31JUL18Z #1-315 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



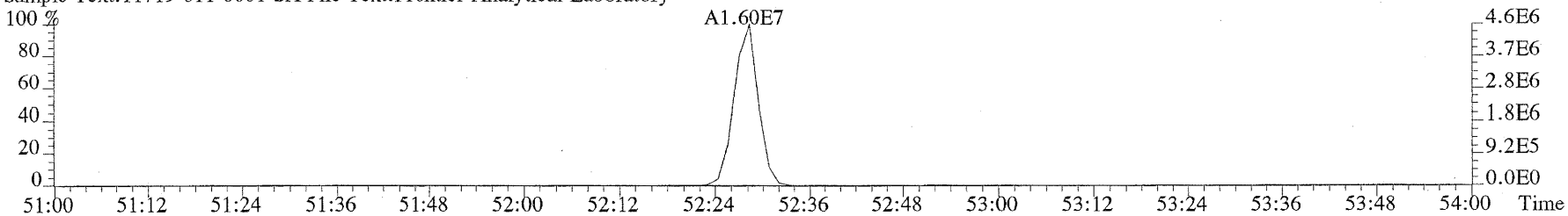
File:31JUL18Z #1-315 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



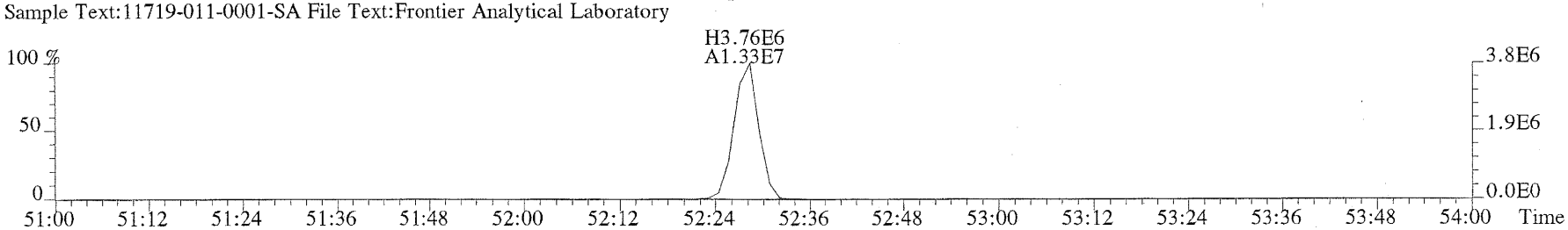
File:31JUL18Z #1-315 Acq:31-JUL-2018 18:01:29 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-011-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-315 Acq:31-JUL-2018 18:01:29 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:11719-011-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-315 Acq:31-JUL-2018 18:01:29 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:11719-011-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-012-0001-SA Filename: 31JUL18Z Sam:10 Acquired: 31-JUL-18 19:00:15 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SC-ENR+AC-CC-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: 387 Amount: 5.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	7.78e+04	3.04 y	14:30	1.28	4.44		-	-	*			
13C-PCB-1	2.74e+07	3.28 y	14:29	0.83	1750					87.5	5.94e+06	1.77e+06
PCB-2	*	* n	NotFnd	1.15	*		800	650	0.891			
PCB-3	7.67e+04	3.00 y	16:59	1.27	4.64		-	-	*			
13C-PCB-3	2.61e+07	3.34 y	16:57	0.83	1660					82.8	5.11e+06	1.48e+06
PCB-4	2.83e+05	1.62 y	18:11	1.44	18.0		-	-	*			
PCB-10	*	* n	NotFnd	1.35	*		840	1840	1.62			
13C-PCB-4	2.18e+07	1.60 y	18:11	0.68	1690					84.3	3.30e+06	2.08e+06
PCB-9	*	* n	NotFnd	1.44	*		840	1840	1.52			
PCB-7	*	* n	NotFnd	1.55	*		840	1840	1.41			
PCB-6	6.41e+05	1.62 y	20:32	1.44	30.9		-	-	*			
PCB-8	1.91e+06	1.61 y	20:55	1.45	91.8		-	-	*			
PCB-5	*	* n	NotFnd	1.46	*		840	1840	1.49			
PCB-14	*	* n	NotFnd	1.36	*		840	1840	1.61			
PCB-11	4.06e+05	1.55 y	23:07	1.31	21.5		-	-	*			
PCB-13	1.43e+05	1.38 y	23:26	1.38	7.19		-	-	*			
PCB-12	2.63e+05	1.35 y	23:27	1.44	12.7		-	-	*			
PCB-15	2.00e+06	1.46 y	23:48	1.38	81.2		-	-	*			
13C-PCB-15	3.58e+07	1.64 y	23:46	1.01	1870					93.3	4.18e+06	2.52e+06
PCB-19	9.40e+04	1.15 y	22:06	1.31	10.3		-	-	*			
PCB-30	*	* n	NotFnd	1.68	*		600	546	1.20			
PCB-18	9.73e+05	1.14 y	23:40	1.25	111		-	-	*			
PCB-17	5.08e+05	1.07 y	23:49	1.37	52.9		-	-	*			
PCB-27	7.45e+04	1.16 y	24:20	1.68	6.34		-	-	*			
PCB-24	8.01e+04	1.09 y	24:22	1.74	6.58		-	-	*			
PCB-16	3.44e+05	1.18 y	24:50	1.49	33.1		-	-	*			
PCB-32	4.52e+05	1.16 y	24:52	1.50	43.0		-	-	*			
13C-PCB-19	1.40e+07	1.14 y	22:05	0.35	2090					105	1.50e+06	1.33e+06
13C-PCB-9	3.79e+07	1.64 y	19:53	-	10.2							
PCB-34	*	* n	NotFnd	1.40	*		697	510	0.752			
PCB-23	*	* n	NotFnd	1.50	*		697	510	0.701			
PCB-29	*	* n	NotFnd	1.31	*		697	510	0.799			
PCB-26	9.38e+05	1.16 y	26:09	1.25	44.8		-	-	*			
PCB-25	5.95e+05	1.13 y	26:20	1.60	22.1		-	-	*			
PCB-31	4.15e+06	1.07 y	26:40	1.21	204		-	-	*			
PCB-28	4.73e+06	1.13 y	26:45	1.69	167		-	-	*			
PCB-20	2.43e+06	1.11 y	27:20	1.36	106		-	-	*		Co-elute PCB 21/33	
PCB-21	2.43e+06	1.11 y	27:20	1.36	106		-	-	*		Co-elute PCB 20/33	
PCB-33	2.43e+06	1.11 y	27:20	1.36	106		-	-	*		Co-elute PCB 20/21	
PCB-22	1.54e+06	1.14 y	27:45	1.41	65.2		-	-	*			
PCB-36	*	* n	NotFnd	1.20	*		697	510	0.878			
PCB-39	*	* n	NotFnd	1.05	*		697	510	0.999			
PCB-38	*	* n	NotFnd	1.39	*		697	510	0.757			
PCB-35	7.59e+04	0.96 y	30:05	1.12	4.04		-	-	*			
PCB-37	1.20e+06	1.19 y	30:31	1.40	51.5		-	-	*			
13C-PCB-37	3.35e+07	1.01 y	30:30	1.54	2360					118	3.00e+06	2.75e+06

PCB-54	*	*	n	NotFnd	1.13	*		387	423	0.929			
PCB-50	*	*	n	NotFnd	0.72	*		387	423	1.46			
PCB-53	2.62e+05	0.74	y	27:23	0.76	36.4		-	-	*			
PCB-51	1.03e+05	0.75	y	27:43	0.76	14.4		-	-	*			
PCB-45	1.92e+05	0.83	y	28:07	0.63	32.2		-	-	*			
PCB-46	8.68e+04	0.66	y	28:35	0.65	14.2		-	-	*			
PCB-52	2.75e+06	0.77	y	29:01	0.92	318		-	-	*	Co-elute PCB 69		
PCB-69	2.75e+06	0.77	y	29:01	0.92	318		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	0.87	*		387	423	1.21			
PCB-43	1.77e+06	0.78	y	29:19	0.72	260		-	-	*	Co-elute PCB 49		
PCB-49	1.77e+06	0.78	y	29:19	0.72	260		-	-	*	Co-elute PCB 43		
PCB-47	7.26e+05	0.75	y	29:33	0.84	92.2		-	-	*			
PCB-48	4.09e+05	0.83	y	29:38	0.96	45.4		-	-	*	Co-elute PCB 75		
PCB-75	4.09e+05	0.83	y	29:38	0.96	45.4		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.01	*		387	423	1.04			
PCB-62	*	*	n	NotFnd	0.97	*		387	423	1.09			
PCB-44	1.56e+06	0.82	y	30:18	0.66	249		-	-	*			
PCB-42	7.66e+05	0.77	y	30:32	0.85	95.8		-	-	*	Co-elute PCB 59		
PCB-59	7.66e+05	0.77	y	30:32	0.85	95.8		-	-	*	Co-elute PCB 42		
PCB-72	1.94e+06	0.77	y	31:04	0.92	225		-	-	*	Co-elute PCB 41/71/64		
PCB-41	1.94e+06	0.77	y	31:04	0.92	225		-	-	*	Co-elute PCB 72/71/64		
PCB-71	1.94e+06	0.77	y	31:04	0.92	225		-	-	*	Co-elute PCB 72/41/64		
PCB-64	1.94e+06	0.77	y	31:04	0.92	225		-	-	*	Co-elute PCB 72/41/71		
PCB-68	3.66e+04	0.74	y	31:18	1.03	3.78	J	-	-	*			
PCB-40	2.51e+05	0.83	y	31:29	0.59	45.1		-	-	*			
PCB-57	2.24e+04	0.88	y	31:51	0.97	2.46	J	-	-	*			
PCB-67	1.17e+05	0.77	y	32:08	0.98	12.6		-	-	*			
PCB-58	1.87e+04	0.87	y	32:13	0.90	2.22	J	-	-	*			
PCB-63	1.32e+05	0.79	y	32:25	1.02	13.8		-	-	*			
PCB-74	1.46e+06	0.79	y	32:40	1.13	137		-	-	*			
PCB-61	3.42e+06	0.79	y	32:51	1.07	339		-	-	*	Co-elute PCB 70		
PCB-70	3.42e+06	0.79	y	32:51	1.07	339		-	-	*	Co-elute PCB 61		
PCB-76	3.24e+06	0.77	y	33:05	1.00	345		-	-	*	Co-elute PCB 66		
PCB-66	3.24e+06	0.77	y	33:05	1.00	345		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.10	*		387	423	0.956			
PCB-55	9.79e+04	0.82	y	33:37	1.07	9.74		-	-	*			
13C-PCB-54	1.88e+07	0.80	y	25:38	1.28	1590					79.4	1.73e+06	2.11e+06
PCB-104	*	*	n	NotFnd	1.27	*		356	244	1.26			
PCB-96	2.61e+04	1.66	y	31:18	1.13	3.86	J	-	-	*			
PCB-103	5.74e+04	1.52	y	31:49	0.97	9.93		-	-	*			
PCB-100	3.20e+04	1.34	y	32:12	0.98	5.48		-	-	*			
PCB-94	*	*	n	NotFnd	0.87	*		356	244	1.83			
PCB-98	*	*	n	NotFnd	1.02	*		356	244	1.57	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.02	*		356	244	1.57	Co-elute PCB 98		
PCB-95	2.43e+06	1.66	y	33:08	0.88	462		-	-	*			
PCB-93	*	*	n	NotFnd	0.81	*		356	244	1.97			
PCB-88	4.46e+05	1.61	y	33:32	0.91	82.2		-	-	*	Co-elute PCB 91		
PCB-91	4.46e+05	1.61	y	33:32	0.91	82.2		-	-	*	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.12	*		356	244	1.43			
13C-PCB-104	1.19e+07	1.61	y	30:07	0.76	1700					84.9	1.16e+06	7.19e+05
13C-PCB-28	4.05e+07	1.00	y	26:45	1.88	2340					117	3.52e+06	3.33e+06
13C-PCB-52	1.85e+07	0.80	y	29:01	-	13.7							

PCB-56	1.81e+06	0.83	y	34:02	1.26	153		-	-	*			Co-elute PCB 60
PCB-60	1.81e+06	0.83	y	34:02	1.26	153		-	-	*			Co-elute PCB 56
PCB-79	1.04e+05	0.84	y	35:04	1.19	9.28		-	-	*			
PCB-78	*	*	n	NotFnd	1.13	*		470	560	1.49			
PCB-81	1.06e+05	0.86	y	36:17	1.25	8.80		-	-	*			
13C-PCB-81	1.93e+07	0.80	y	36:16	1.79	1240					62.0	1.24e+06	1.54e+06
PCB-77	2.54e+05	0.83	y	36:51	1.17	23.8		-	-	*			
13C-PCB-77	1.83e+07	0.81	y	36:50	1.72	1220					60.9	1.56e+06	1.88e+06
PCB-155	*	*	n	NotFnd	1.21	*		268	308	0.752			
PCB-150	2.65e+04	1.09	y	35:30	1.07	3.31	J	-	-	*			
PCB-152	*	*	n	NotFnd	1.04	*		268	308	0.879			
PCB-145	*	*	n	NotFnd	1.09	*		268	308	0.841			
PCB-136	8.70e+05	1.21	y	36:40	0.97	120		-	-	*			
PCB-148	*	*	n	NotFnd	0.86	*		268	308	1.06			
PCB-154	1.13e+05	1.23	y	37:14	1.02	14.8		-	-	*			
13C-PCB-155	1.49e+07	1.30	y	34:18	0.83	2060					103	1.78e+06	1.37e+06
13C-PCB-111	1.97e+07	1.57	y	36:25	1.23	1830					91.7	2.27e+06	1.42e+06
13C-PCB-101	1.74e+07	1.60	y	34:44	-	13.3							
PCB-84	1.64e+06	1.62	y	34:23	0.58	238		-	-	*			Co-elute PCB 92
PCB-92	1.64e+06	1.62	y	34:23	0.58	238		-	-	*			Co-elute PCB 84
PCB-89	3.26e+04	1.53	y	34:35	0.56	4.90		-	-	*			
PCB-90	4.90e+06	1.55	y	34:45	0.66	620		-	-	*			Co-elute PCB 101
PCB-101	4.90e+06	1.55	y	34:45	0.66	620		-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.69	*		430	390	1.44			
PCB-99	2.32e+06	1.56	y	35:04	0.75	259		-	-	*			
PCB-119	1.73e+05	1.66	y	35:29	0.79	18.4		-	-	*			
PCB-83	2.06e+05	1.69	y	35:38	0.67	25.8		-	-	*			Co-elute PCB 112
PCB-112	2.06e+05	1.69	y	35:38	0.67	25.8		-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.80	*		430	390	1.24			
PCB-97	1.23e+06	1.60	y	36:00	0.72	142		-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*		430	390	1.50			
PCB-125	1.51e+06	1.54	y	36:16	0.73	173		-	-	*			Co-elute PCB 87/117
PCB-87	1.51e+06	1.54	y	36:16	0.73	173		-	-	*			Co-elute PCB 125/117
PCB-117	1.51e+06	1.54	y	36:16	0.73	173		-	-	*			Co-elute PCB 125/87
PCB-111	9.39e+04	1.54	y	36:25	0.91	8.64		-	-	*			Co-elute PCB 115
PCB-115	9.39e+04	1.54	y	36:25	0.91	8.64		-	-	*			Co-elute PCB 111
PCB-85	7.95e+05	1.59	y	36:31	0.69	95.6		-	-	*			Co-elute PCB 116
PCB-116	7.95e+05	1.59	y	36:31	0.69	95.6		-	-	*			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.86	*		430	390	1.15			
PCB-110	5.50e+06	1.54	y	36:54	0.85	540		-	-	*			
PCB-82	4.06e+05	1.50	y	37:28	0.51	66.3		-	-	*			
PCB-124	2.53e+05	1.46	y	38:10	1.24	17.1		-	-	*			
PCB-108	5.04e+05	1.64	y	38:18	1.24	34.0		-	-	*			Co-elute PCB 107
PCB-107	5.04e+05	1.64	y	38:18	1.24	34.0		-	-	*			Co-elute PCB 108
PCB-123	1.33e+05	1.60	y	38:28	1.50	7.19		-	-	*			
13C-PCB-123	2.47e+07	1.59	y	38:26	1.55	1680					84.1	2.72e+06	1.67e+06
PCB-118	5.98e+06	1.54	y	38:38	1.11	441		-	-	*			Co-elute PCB 106
PCB-106	5.98e+06	1.54	y	38:38	1.11	441		-	-	*			Co-elute PCB 118
13C-PCB-118	2.43e+07	1.62	y	38:36	1.75	1470					73.6	2.51e+06	1.56e+06
PCB-114	1.51e+05	1.76	y	39:15	1.30	9.51		-	-	*			
13C-PCB-114	2.43e+07	1.60	y	39:14	1.58	1630					81.3	2.60e+06	1.62e+06
PCB-122	8.00e+04	1.51	y	39:20	1.17	5.70		-	-	*			
PCB-105	2.38e+06	1.55	y	40:03	1.24	170		-	-	*			
13C-PCB-105	2.25e+07	1.60	y	40:03	1.49	1600					80.2	2.44e+06	1.48e+06

PCB-127	*	*	n	NotFnd	1.09	*	774	650	1.58			
PCB-126	4.43e+04	1.54	y	42:12	1.28	3.25	-	-	*			
13C-PCB-126	2.13e+07	1.61	y	42:12	1.40	1600				80.2	2.32e+06	1.46e+06
PCB-151	1.61e+06	1.30	y	37:52	0.78	195	-	-	*			
PCB-135	6.80e+05	1.19	y	38:03	0.91	70.2	-	-	*			
PCB-144	2.83e+05	1.28	y	38:10	0.91	29.3	-	-	*			
PCB-147	1.11e+05	1.14	y	38:18	0.99	10.6	-	-	*			
PCB-139	5.97e+06	1.27	y	38:31	0.98	576	-	-	*	Co-elute PCB 149		
PCB-149	5.97e+06	1.27	y	38:31	0.98	576	-	-	*	Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.99	*	520	424	1.17			
PCB-143	3.13e+05	1.38	y	39:09	0.91	32.3	-	-	*	Co-elute PCB 134		
PCB-134	3.13e+05	1.38	y	39:09	0.91	32.3	-	-	*	Co-elute PCB 143		
PCB-131	1.85e+05	1.10	y	39:25	0.91	19.1	-	-	*	Co-elute PCB 133		
PCB-133	1.85e+05	1.10	y	39:25	0.91	19.1	-	-	*	Co-elute PCB 131		
PCB-142	*	*	n	NotFnd	0.83	*	520	424	1.39			
PCB-165	1.13e+06	1.28	y	39:48	1.09	97.8	-	-	*	Co-elute PCB 146		
PCB-146	1.13e+06	1.28	y	39:48	1.09	97.8	-	-	*	Co-elute PCB 165		
PCB-161	1.83e+06	1.22	y	40:02	1.00	172	-	-	*	Co-elute PCB 132		
PCB-132	1.83e+06	1.22	y	40:02	1.00	172	-	-	*	Co-elute PCB 161		
PCB-153	8.13e+06	1.26	y	40:11	1.09	701	-	-	*			
PCB-168	*	*	n	NotFnd	1.19	*	520	424	0.977			
PCB-141	1.27e+06	1.29	y	40:53	0.92	130	-	-	*			
PCB-137	3.09e+05	1.20	y	41:16	0.82	35.5	-	-	*			
PCB-130	3.49e+05	1.31	y	41:21	0.89	37.0	-	-	*			
PCB-138	8.28e+06	1.27	y	41:42	1.20	650	-	-	*	Co-elute PCB 163/164		
PCB-163	8.28e+06	1.27	y	41:42	1.20	650	-	-	*	Co-elute PCB 138/164		
PCB-164	8.28e+06	1.27	y	41:42	1.20	650	-	-	*	Co-elute PCB 138/163		
PCB-158	8.83e+05	1.23	y	41:55	1.21	68.5	-	-	*	Co-elute PCB 160		
PCB-160	8.83e+05	1.23	y	41:55	1.21	68.5	-	-	*	Co-elute PCB 158		
PCB-129	2.34e+05	1.40	y	42:08	0.78	28.1	-	-	*			
PCB-166	*	*	n	NotFnd	1.14	*	520	424	1.02			
PCB-159	1.06e+05	1.18	y	42:56	1.20	8.30	-	-	*			
PCB-128	1.10e+06	1.32	y	43:11	1.02	102	-	-	*	Co-elute PCB 162		
PCB-162	1.10e+06	1.32	y	43:11	1.02	102	-	-	*	Co-elute PCB 128		
PCB-167	3.29e+05	1.32	y	43:34	1.08	28.2	-	-	*			
13C-PCB-167	2.16e+07	1.28	y	43:32	1.16	1960				98.1	2.35e+06	1.83e+06
PCB-156	8.54e+05	1.26	y	44:46	1.13	70.3	-	-	*			
13C-PCB-156	2.15e+07	1.26	y	44:45	1.10	2070				103	2.16e+06	1.75e+06
PCB-157	1.70e+05	1.27	y	45:01	1.21	12.8	-	-	*			
13C-PCB-157	2.20e+07	1.29	y	45:01	1.13	2070				103	2.27e+06	1.74e+06
PCB-169	*	*	n	NotFnd	1.13	*	520	424	0.988			
13C-PCB-169	1.98e+07	1.28	y	46:51	1.06	1970				98.6	2.37e+06	1.85e+06

PCB-188	*	*	n	NotFnd	1.18	*	424	388	1.15				
13C-PCB-188	1.67e+07	1.08	y	39:47	0.83	2110				106	1.59e+06	1.41e+06
PCB-184	*	*	n	NotFnd	1.27	*	424	388	0.901				
PCB-179	1.23e+06	1.08	y	40:58	1.16	127	-	-	*				
PCB-176	3.92e+05	1.07	y	41:24	1.13	41.3	-	-	*				
PCB-186	*	*	n	NotFnd	1.20	*	424	388	0.960				
PCB-178	4.69e+05	1.09	y	42:26	0.82	68.7	-	-	*				
PCB-175	8.29e+04	0.94	y	42:48	0.85	11.7	-	-	*				
PCB-187	3.02e+06	1.07	y	42:56	0.97	371	-	-	*		Co-elute PCB 182		
PCB-182	3.02e+06	1.07	y	42:56	0.97	371	-	-	*		Co-elute PCB 187		
PCB-183	1.52e+06	1.07	y	43:16	0.92	197	-	-	*				
PCB-185	2.74e+05	1.08	y	43:52	0.87	37.5	-	-	*				
PCB-174	2.15e+06	1.10	y	44:12	0.88	291	-	-	*				
PCB-181	*	*	n	NotFnd	0.86	*	424	388	1.33				
PCB-177	1.18e+06	1.02	y	44:28	0.78	181	-	-	*				
PCB-171	5.51e+05	1.11	y	44:45	0.84	78.9	-	-	*				
PCB-173	3.66e+04	1.02	y	45:08	0.75	5.86	-	-	*				
PCB-172	3.31e+05	1.03	y	45:32	0.79	50.2	-	-	*				
PCB-192	*	*	n	NotFnd	1.11	*	424	388	1.03				
PCB-180	5.04e+06	1.06	y	45:52	1.07	561	-	-	*				
PCB-193	3.21e+05	1.02	y	46:02	1.12	34.1	-	-	*				
PCB-191	1.16e+05	1.09	y	46:15	1.06	13.0	-	-	*				
PCB-170	1.80e+06	1.05	y	47:10	0.78	274	-	-	*				
PCB-190	5.48e+05	1.05	y	47:19	1.05	62.6	-	-	*				
PCB-189	9.75e+04	0.97	y	48:30	1.20	9.69	-	-	*				
13C-PCB-189	1.68e+07	1.07	y	48:30	0.72	2450				122	2.22e+06	2.09e+06
PCB-202	3.57e+05	0.96	y	44:53	1.07	61.4	-	-	*				
PCB-201	2.35e+05	0.87	y	45:21	0.97	44.2	-	-	*				
PCB-204	*	*	n	NotFnd	1.00	*	232	268	1.17				
PCB-197	6.87e+04	0.78	y	45:46	1.07	11.8	-	-	*				
PCB-200	2.17e+05	0.86	y	46:28	1.00	39.9	-	-	*				
PCB-198	7.85e+04	0.98	y	47:39	0.77	18.7	-	-	*				
PCB-199	1.39e+06	0.97	y	47:44	0.74	346	-	-	*				
PCB-203	1.66e+06	0.88	y	48:01	0.85	360	-	-	*		Co-elute PCB 196		
PCB-196	1.66e+06	0.88	y	48:01	0.85	360	-	-	*		Co-elute PCB 203		
13C-PCB-202	1.09e+07	0.93	y	44:53	0.48	2400				120	1.04e+06	1.11e+06
13C-PCB-178	1.43e+07	1.07	y	42:25	0.61	2470				123	1.44e+06	1.34e+06
13C-PCB-138	1.89e+07	1.26	y	41:40	-	13.6						
PCB-195	6.10e+05	0.92	y	49:05	0.90	95.8	-	-	*				
PCB-194	1.24e+06	0.91	y	49:54	0.92	192	-	-	*				
PCB-205	9.68e+04	0.91	y	50:09	1.19	11.5	-	-	*				
13C-PCB-205	1.42e+07	0.92	y	50:08	1.25	2200				110	1.78e+06	1.94e+06
PCB-208	3.36e+05	1.18	y	49:12	0.99	41.6	-	-	*				
13C-PCB-208	1.63e+07	0.82	y	49:10	1.27	2490				125	2.25e+06	2.75e+06
PCB-207	1.63e+05	1.28	y	49:30	1.01	25.7	-	-	*				
PCB-206	7.66e+05	1.29	y	51:20	0.96	180	-	-	*				
13C-PCB-206	8.84e+06	0.82	y	51:19	0.93	1840				91.8	1.05e+06	1.31e+06
PCB-209	2.13e+05	1.16	y	52:32	1.13	31.6	-	-	*				
13C-PCB-209	1.20e+07	1.18	y	52:31	1.04	2250				112	1.69e+06	1.42e+06
13C-PCB-194	1.03e+07	0.92	y	49:53	-	7.66						

Analyst: _____ Date: 8/20/18

File:31JUL18Z #1-784 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
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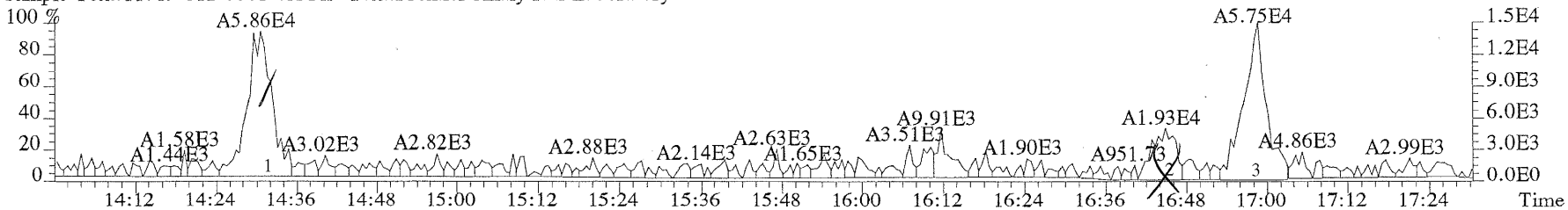
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



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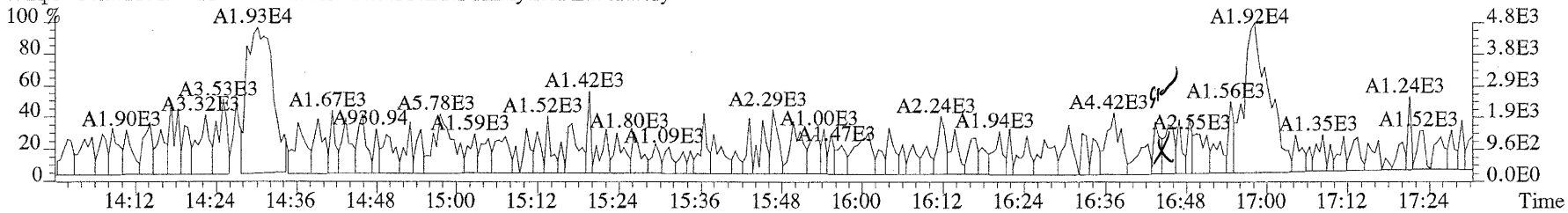
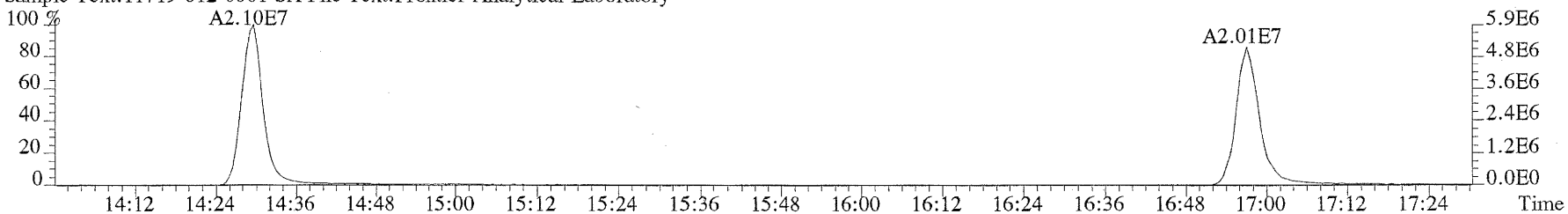
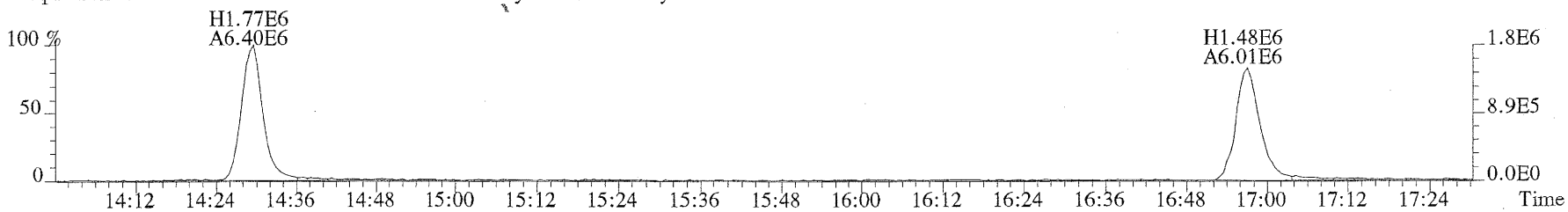
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



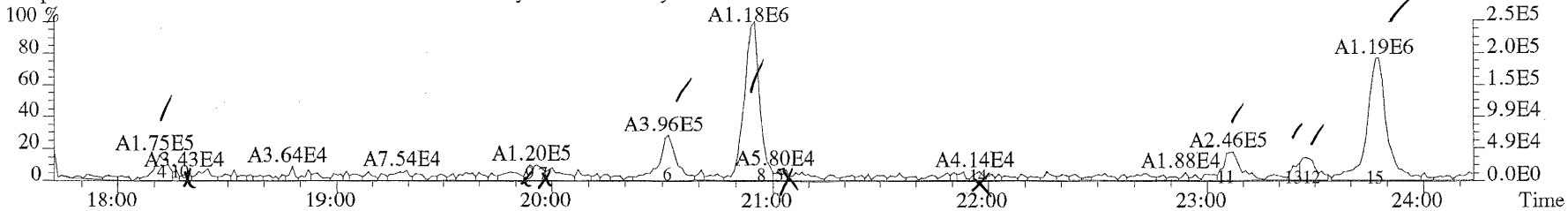
File:31JUL18Z #1-784 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:10 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



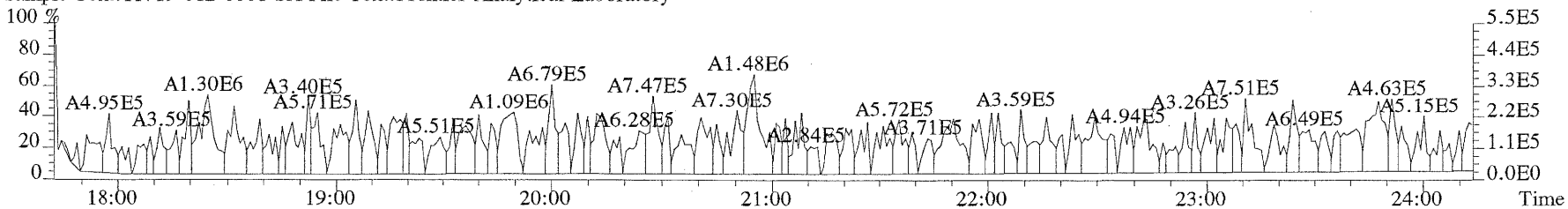
File:31JUL18Z #1-784 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



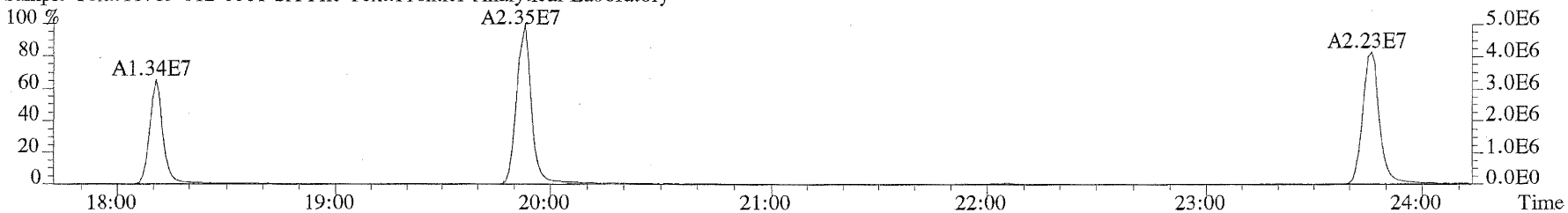
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



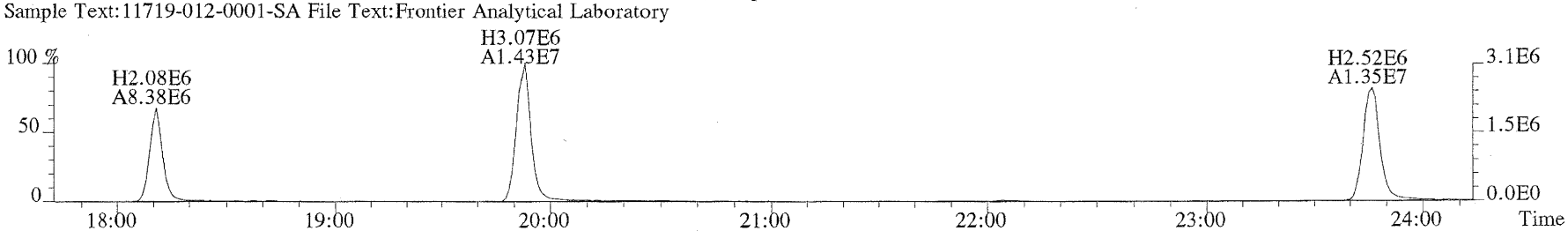
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



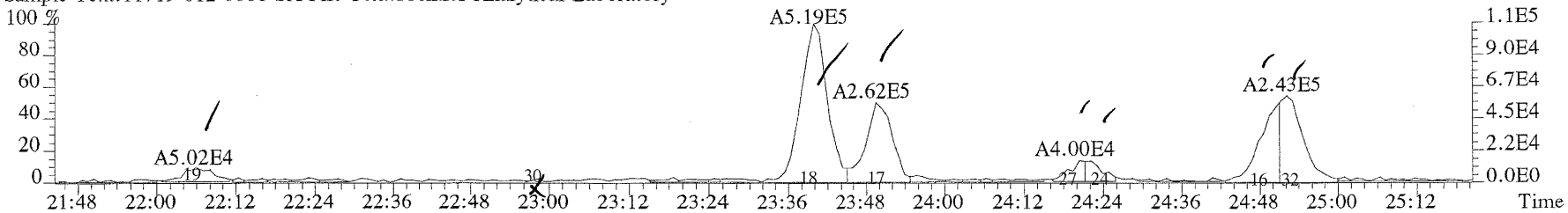
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



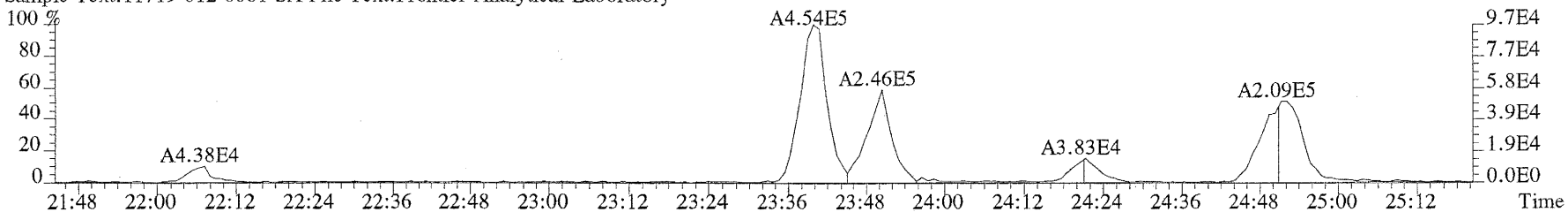
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



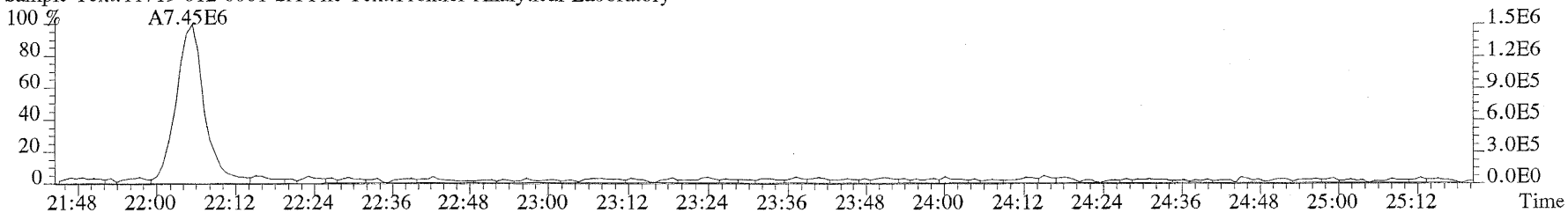
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



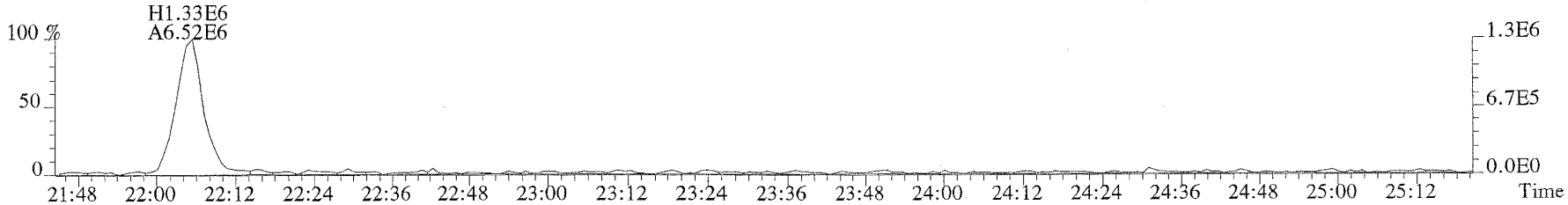
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



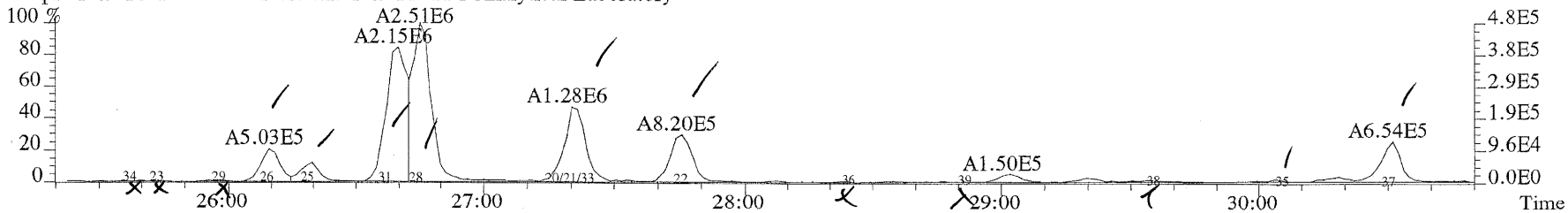
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



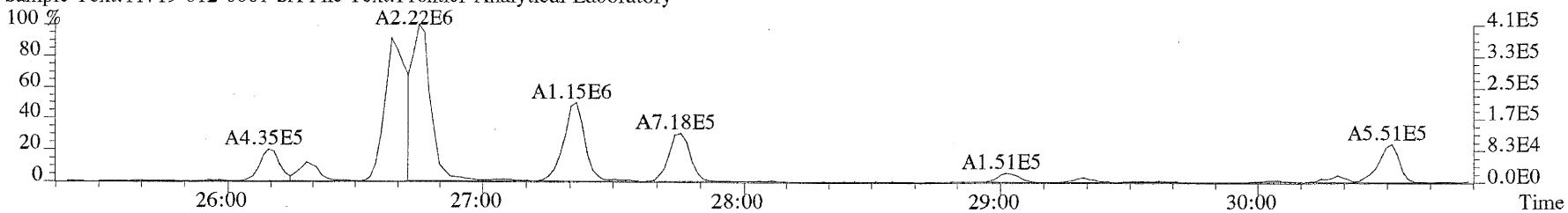
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



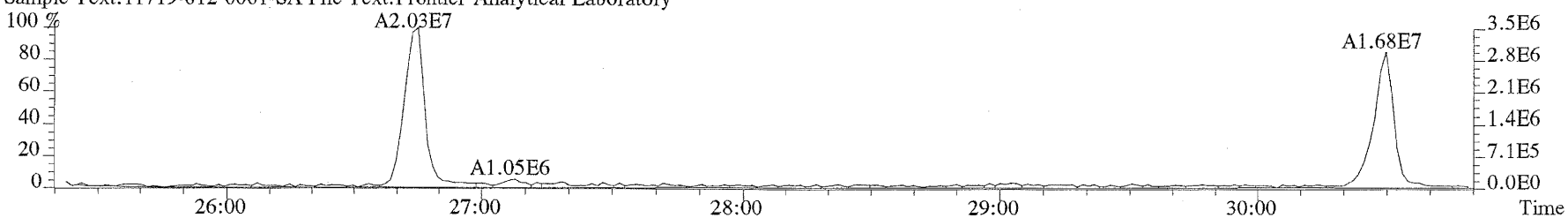
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



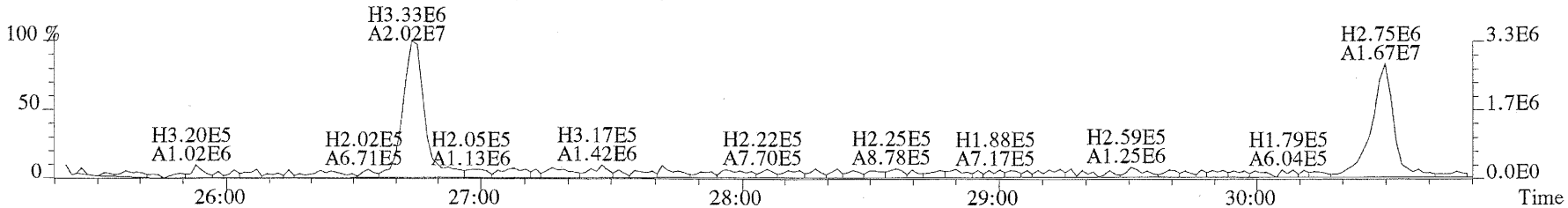
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



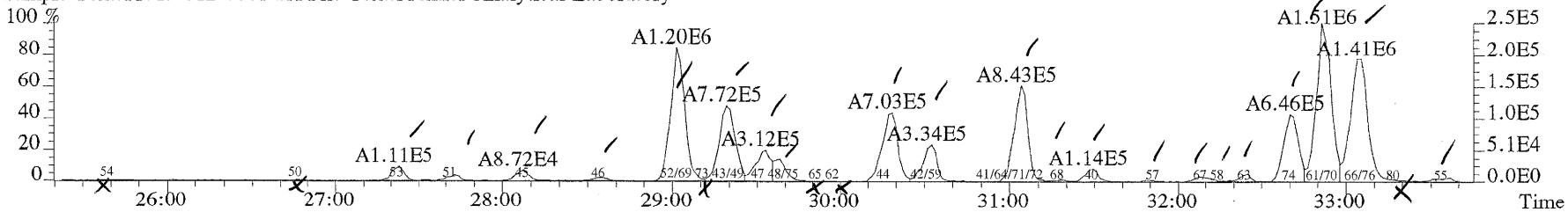
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



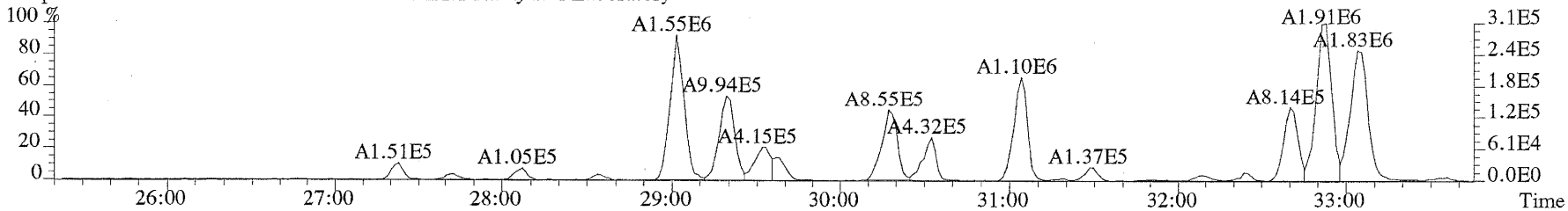
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



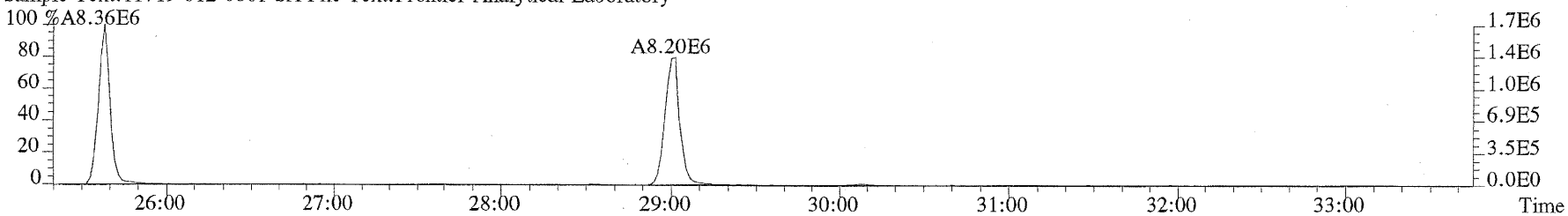
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



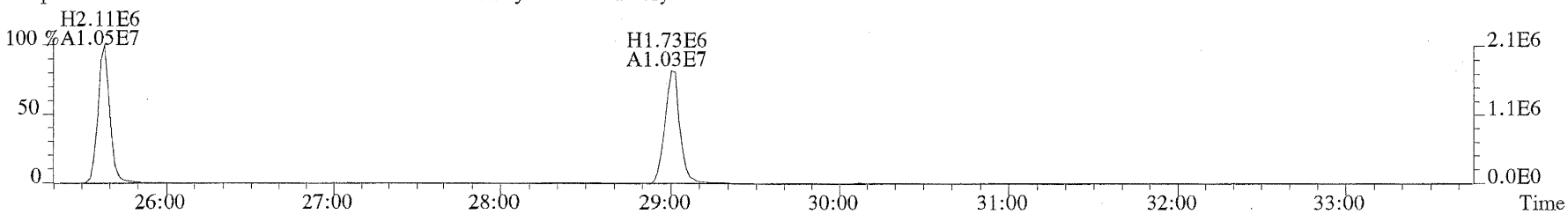
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



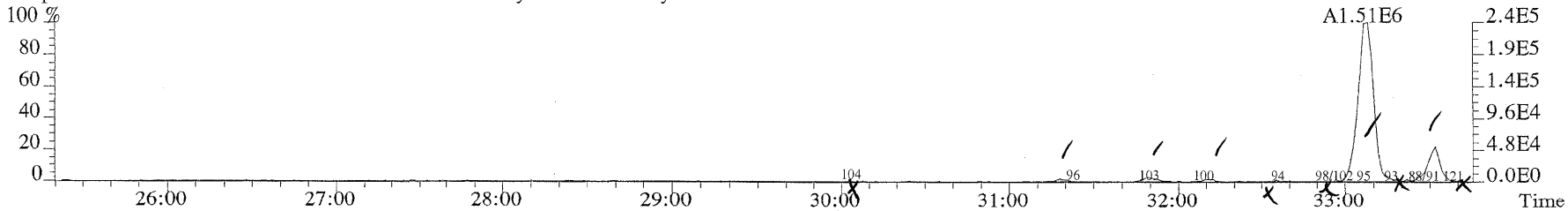
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



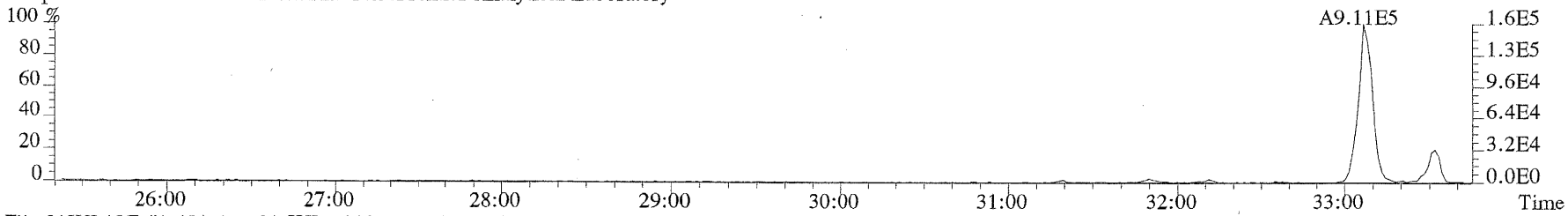
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



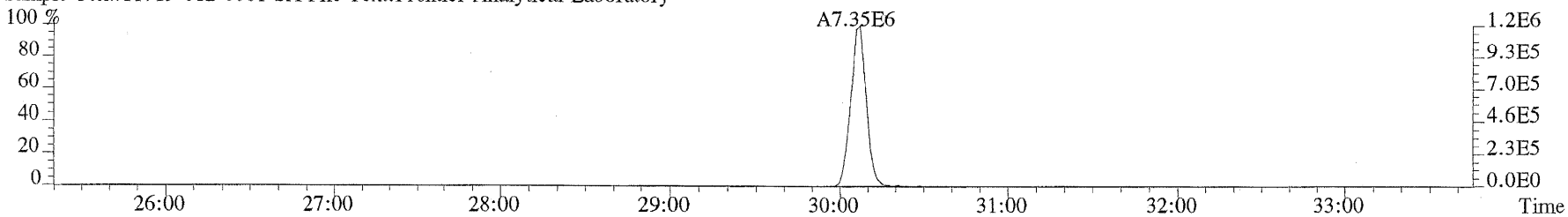
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



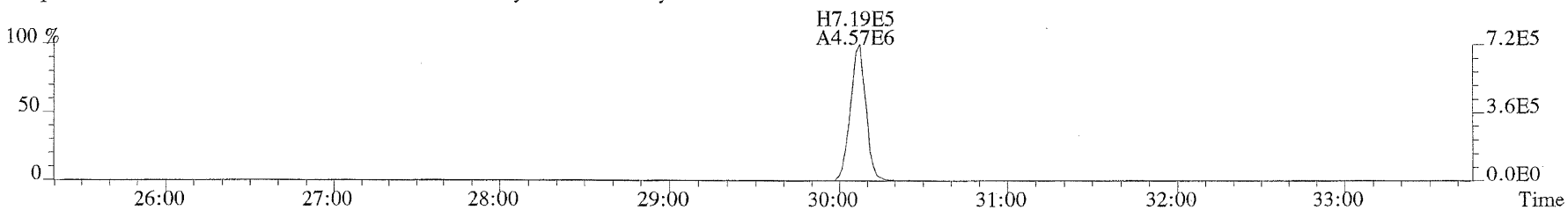
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



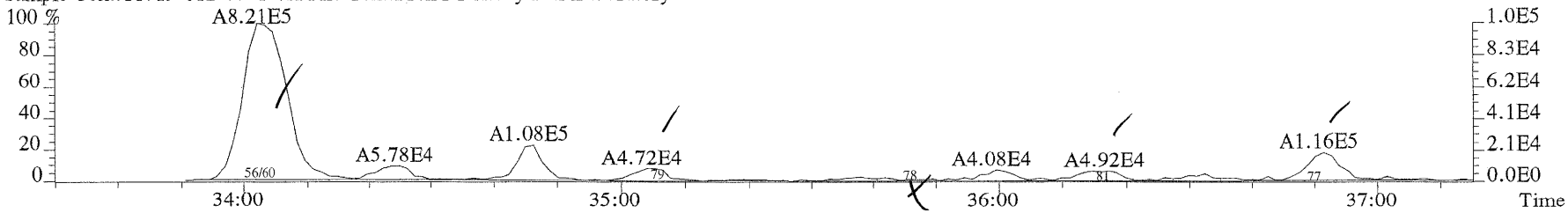
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



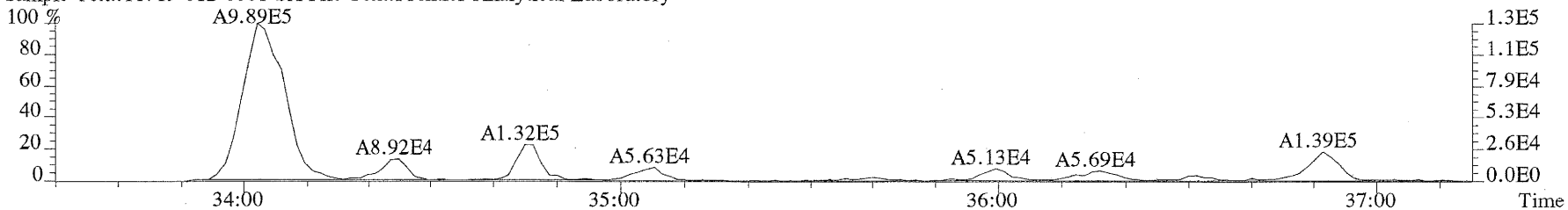
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



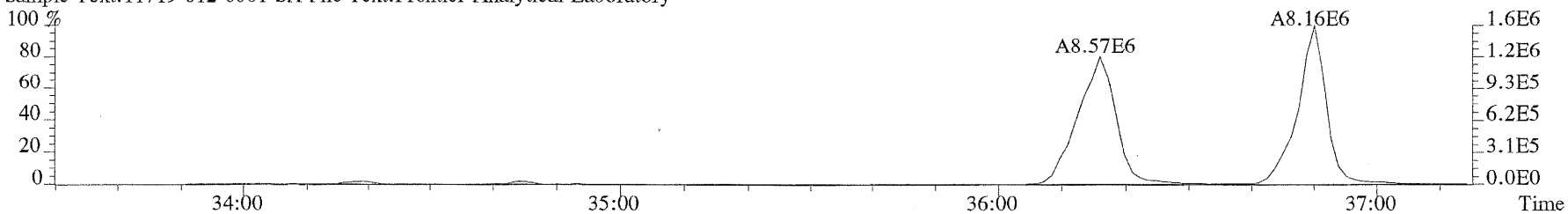
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



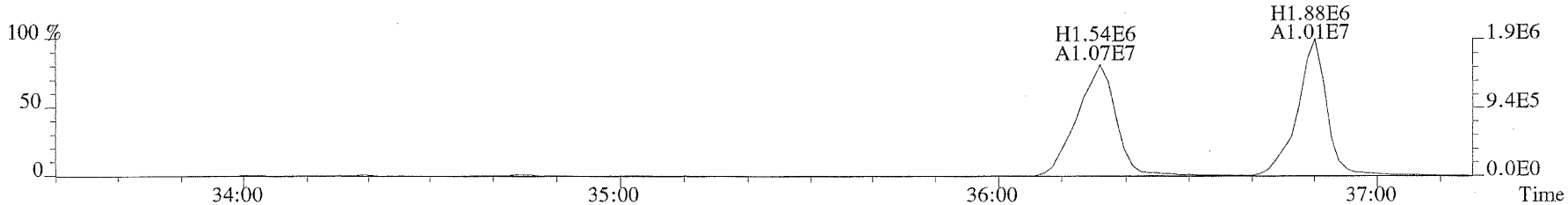
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



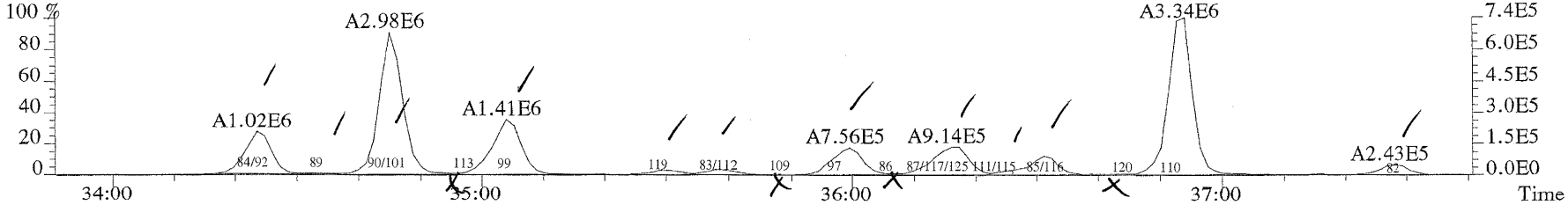
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



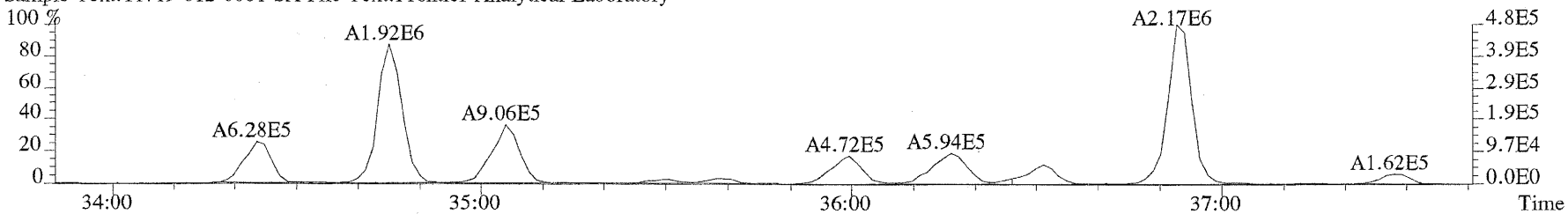
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



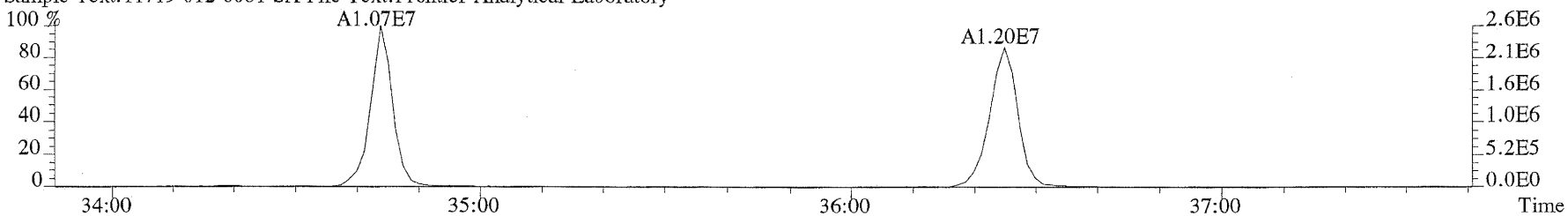
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



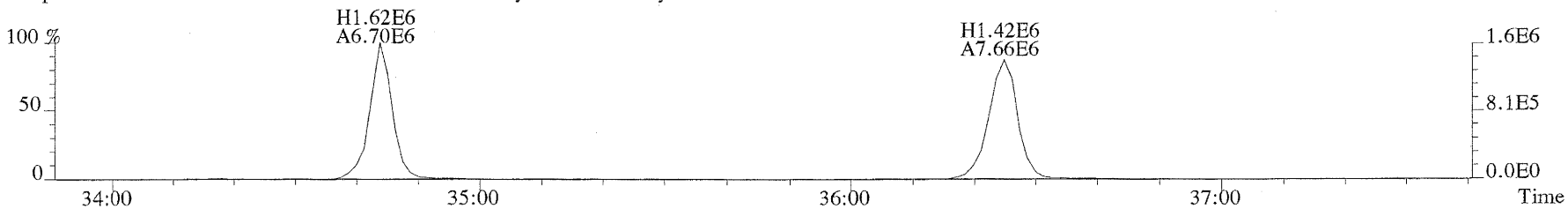
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



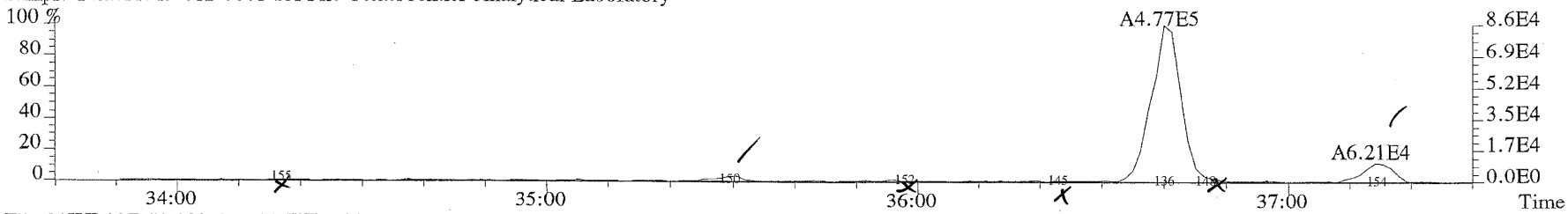
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



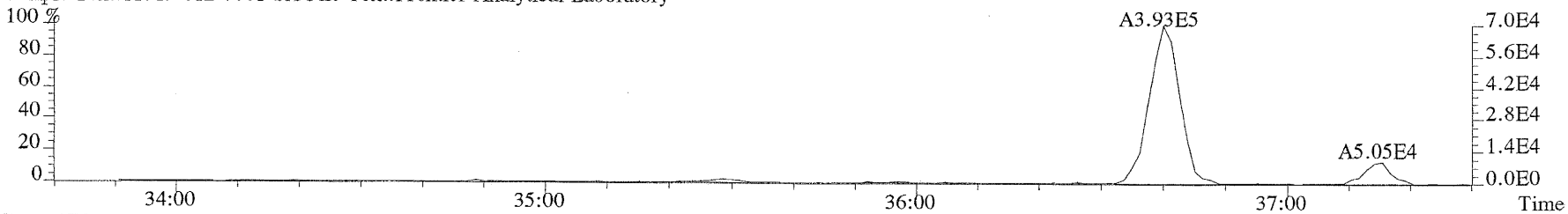
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



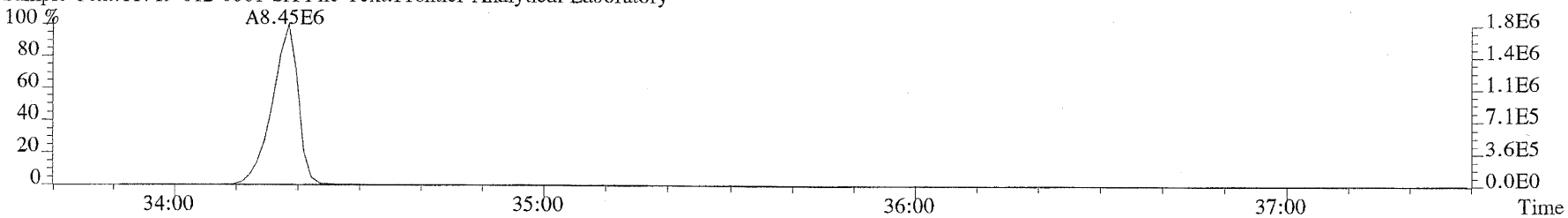
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



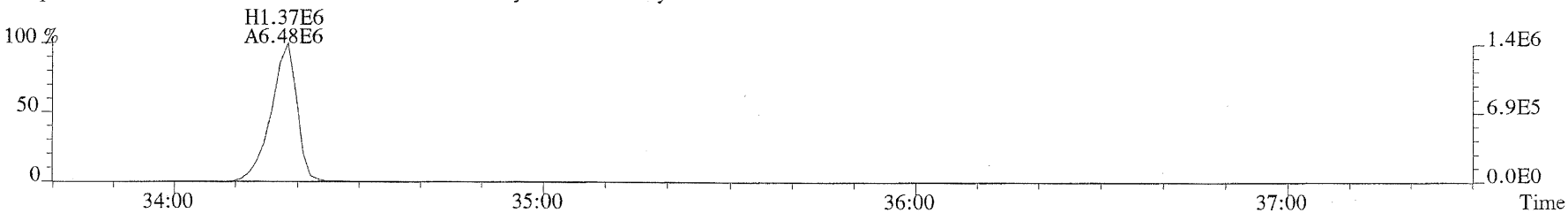
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



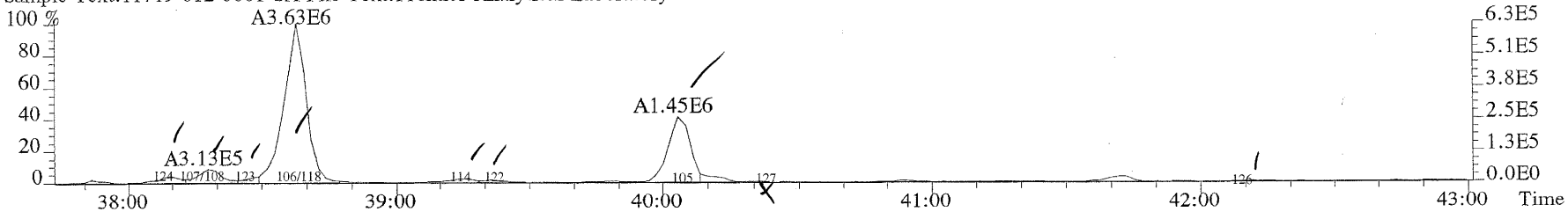
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



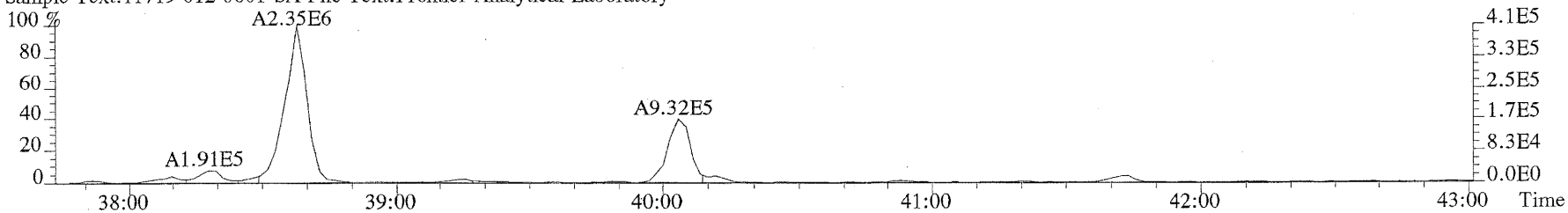
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



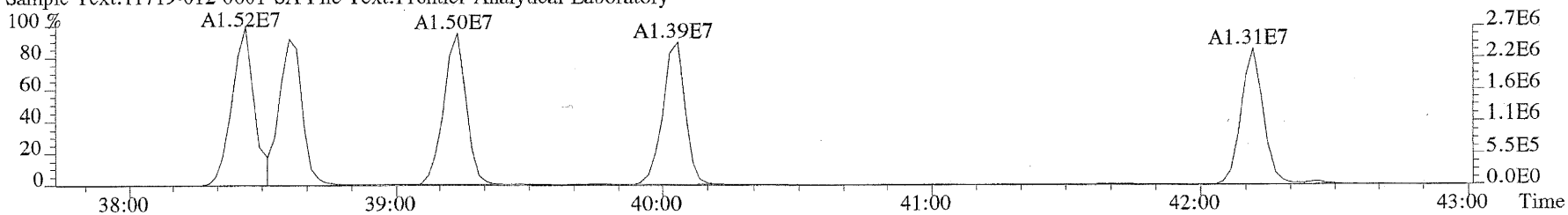
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



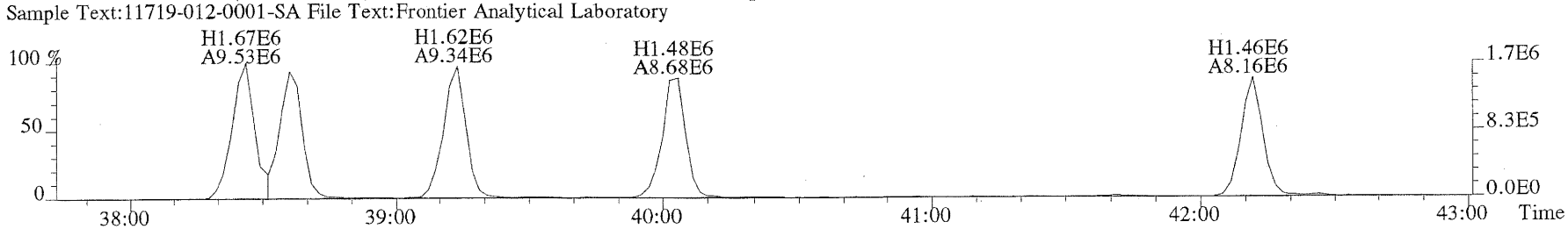
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



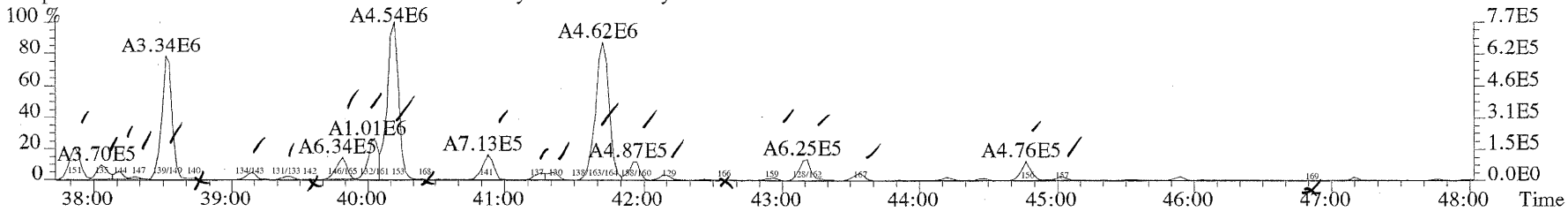
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



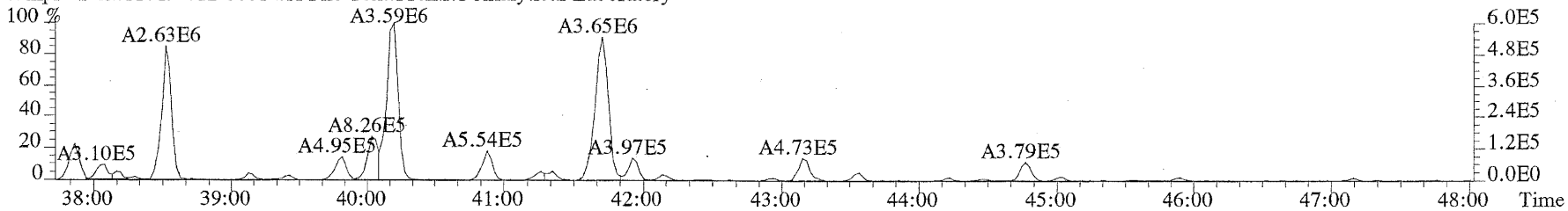
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



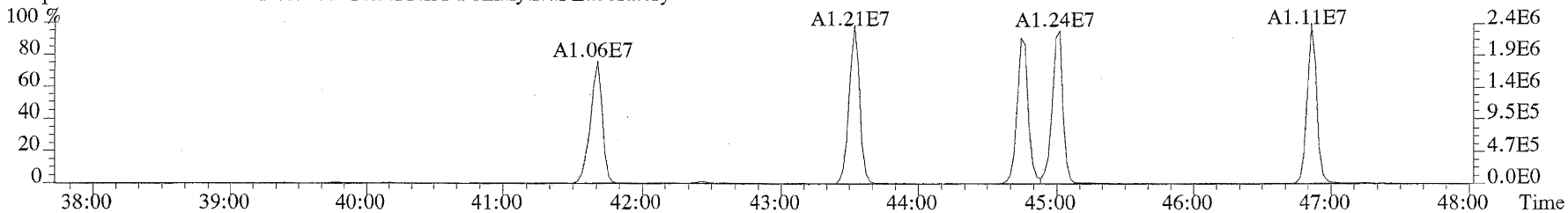
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



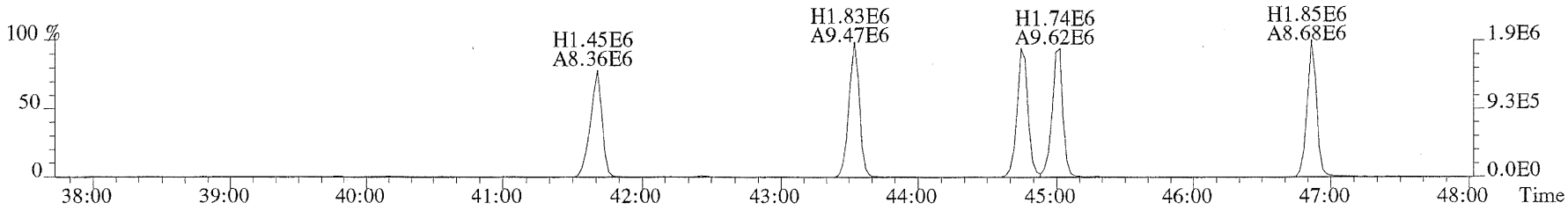
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



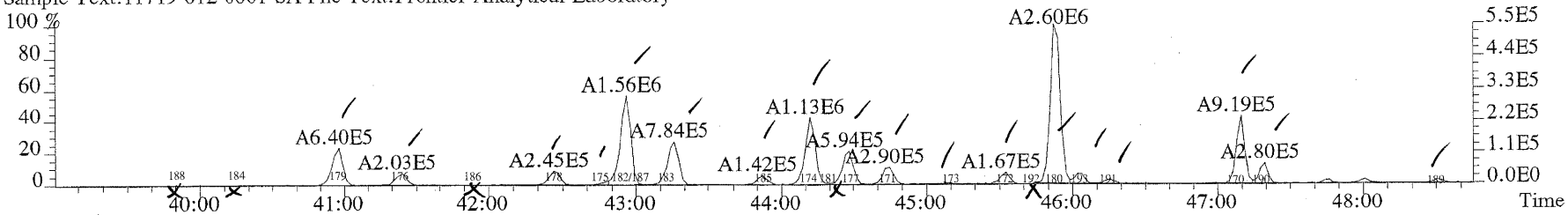
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



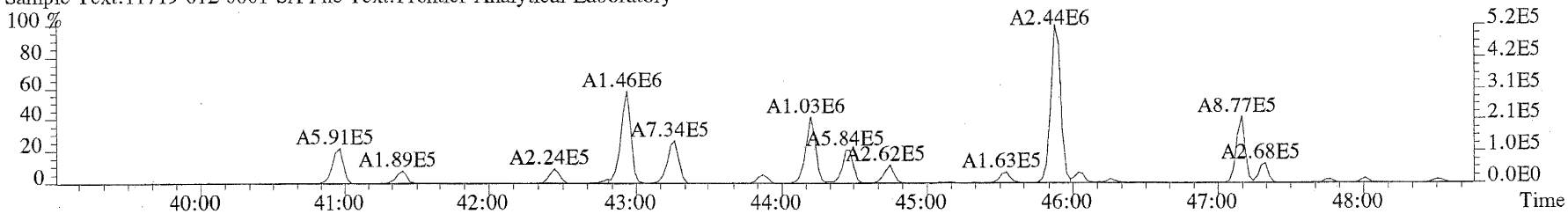
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



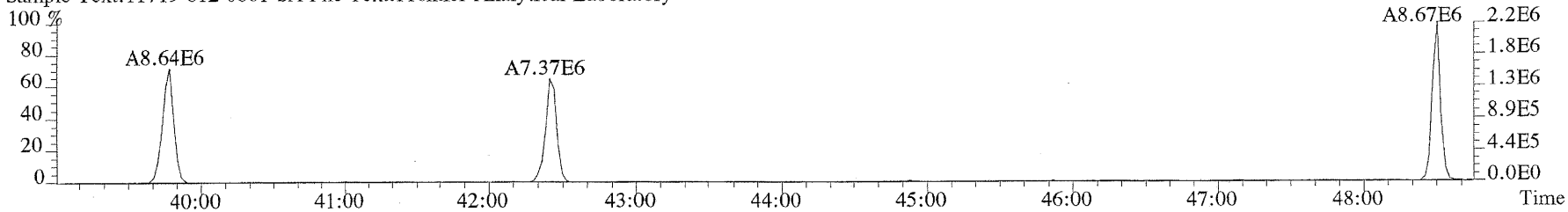
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



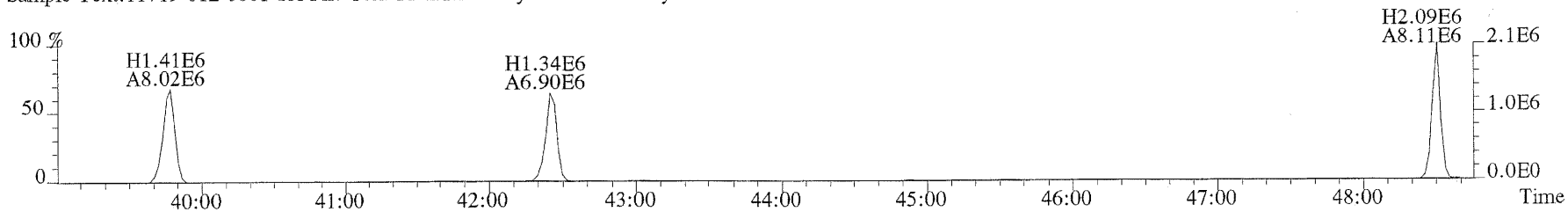
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



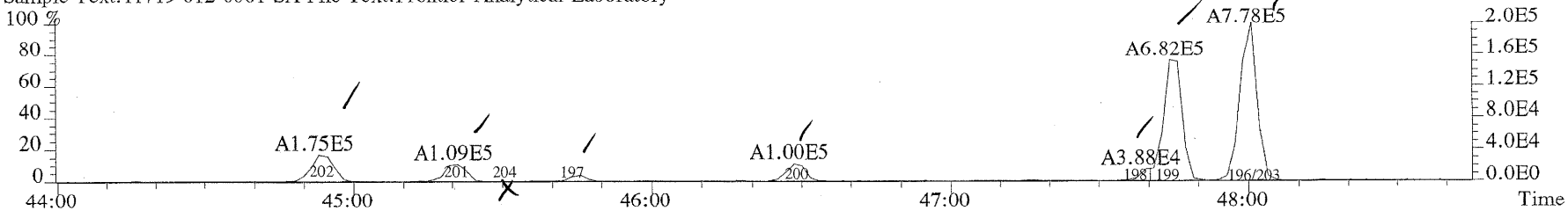
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



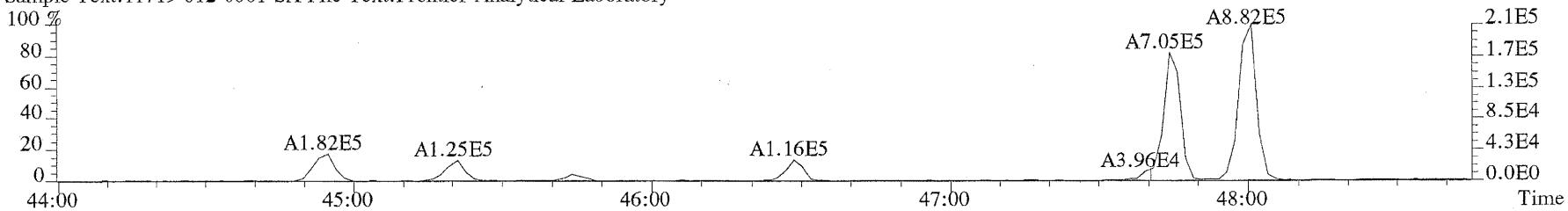
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



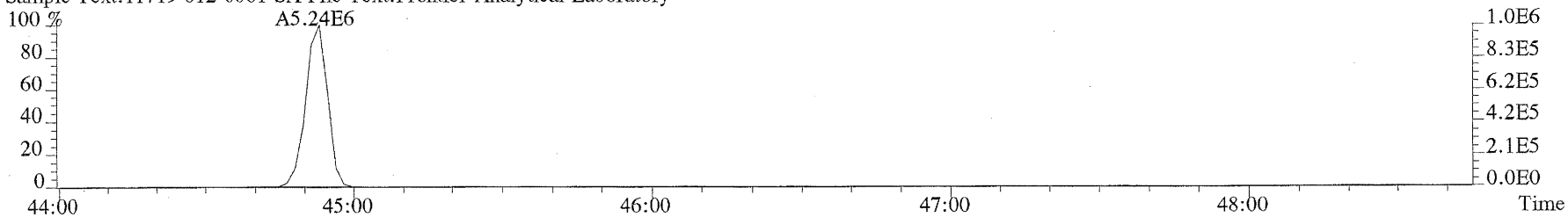
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



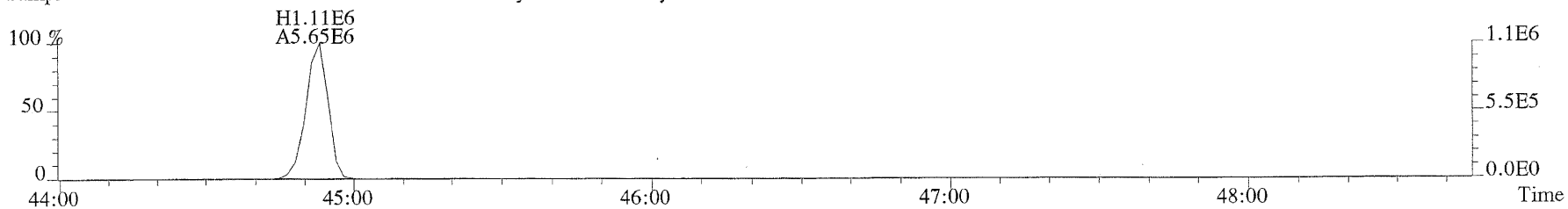
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



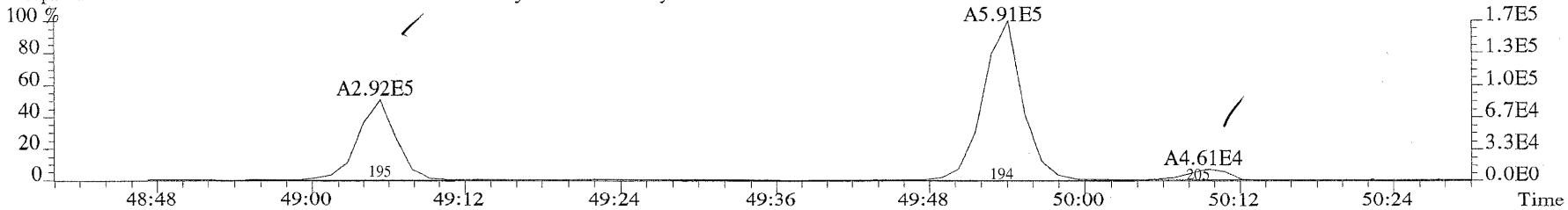
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



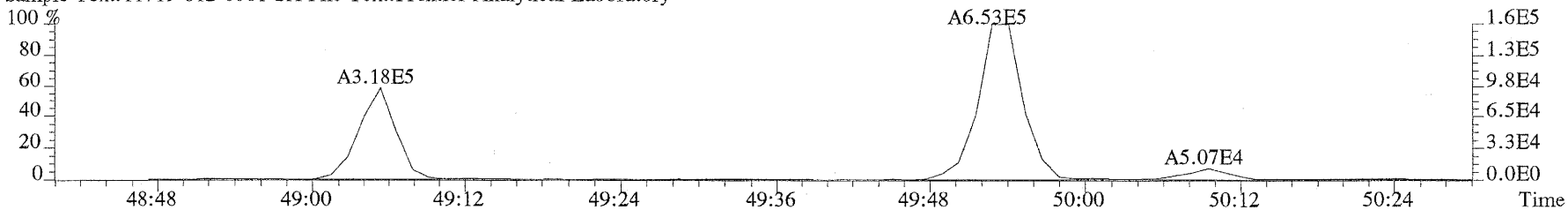
File:31JUL18Z #1-403 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



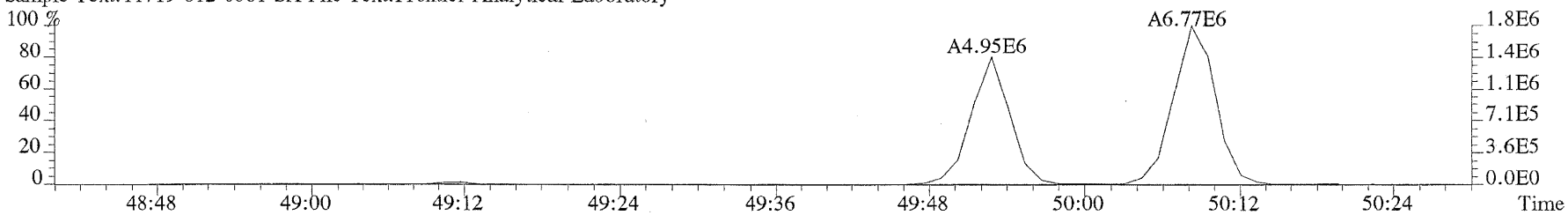
File:31JUL18Z #1-315 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



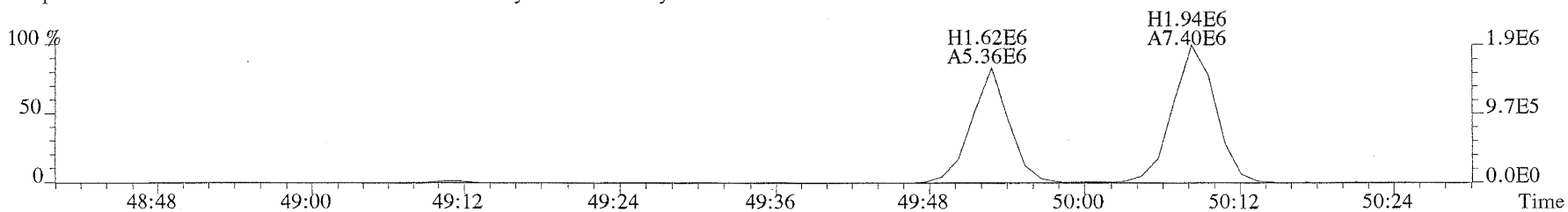
File:31JUL18Z #1-315 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



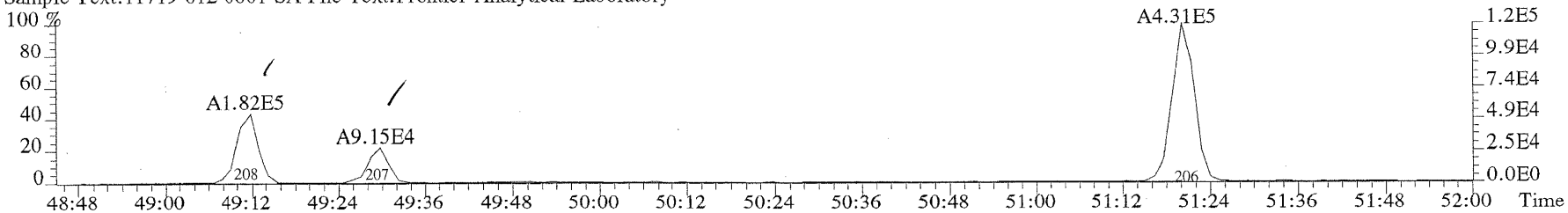
File:31JUL18Z #1-315 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



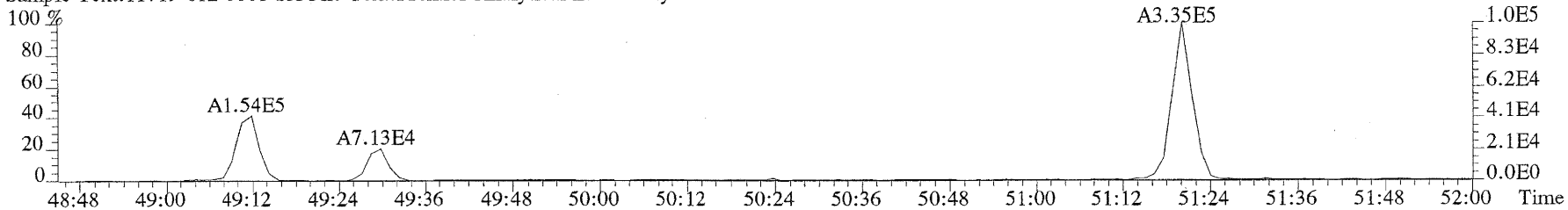
File:31JUL18Z #1-315 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



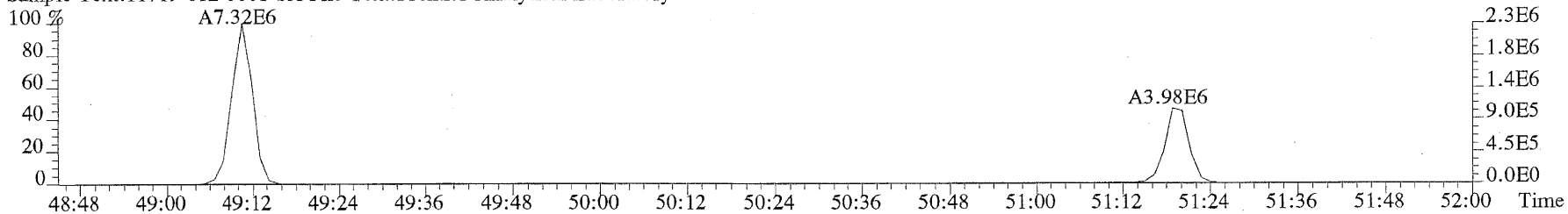
File:31JUL18Z #1-315 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



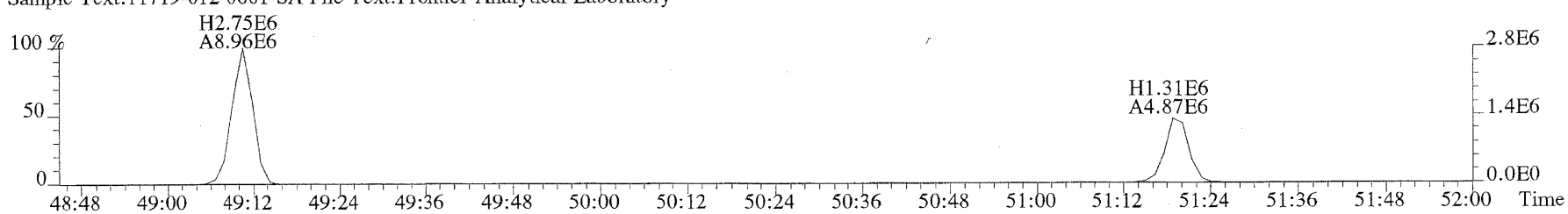
File:31JUL18Z #1-315 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



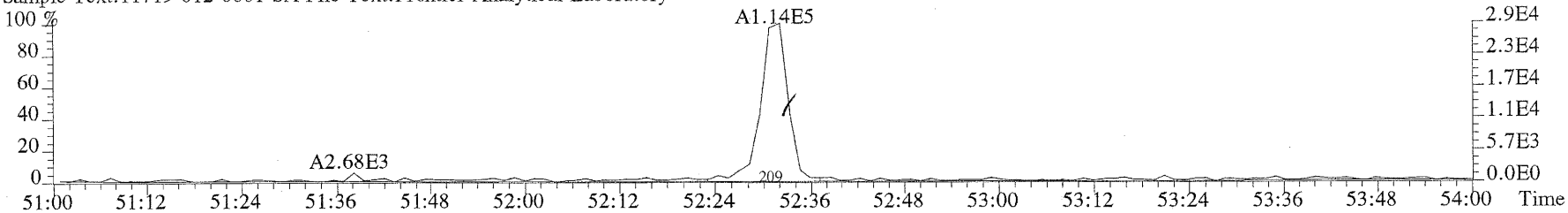
File:31JUL18Z #1-315 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



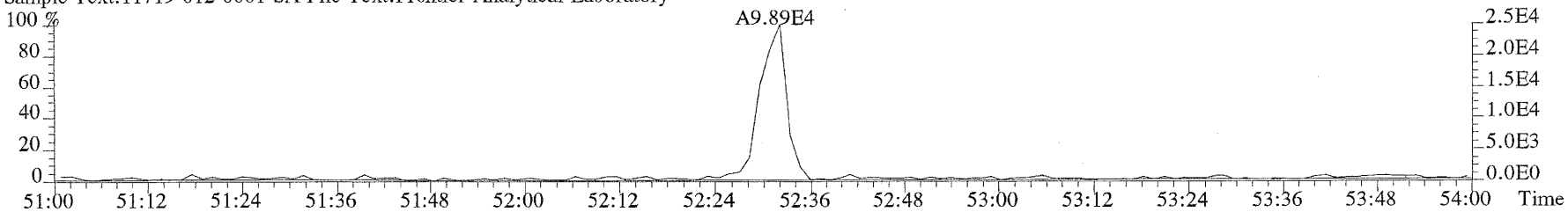
File:31JUL18Z #1-315 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



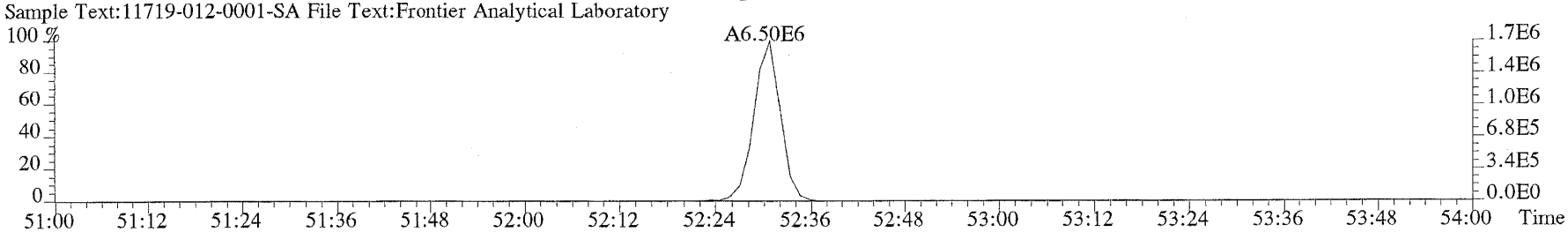
File:31JUL18Z #1-315 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



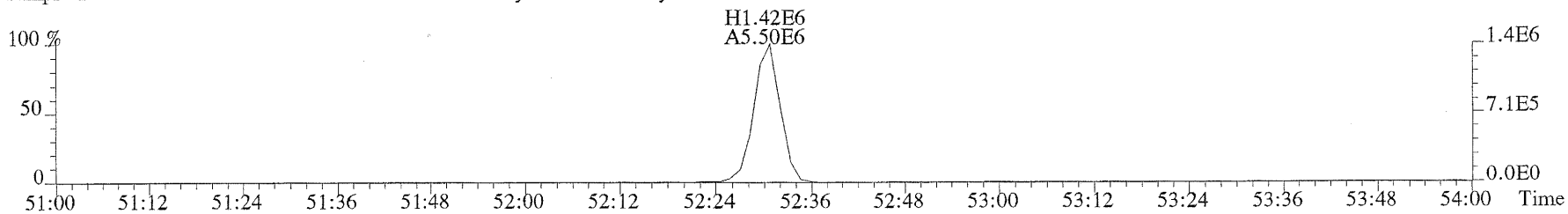
File:31JUL18Z #1-315 Acq:31-JUL-2018 19:00:15 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-012-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-315 Acq:31-JUL-2018 19:00:15 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:11719-012-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-315 Acq:31-JUL-2018 19:00:15 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:11719-012-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-013-0001-SA Filename: 31JUL18Z Sam:11 Acquired: 31-JUL-18 19:59:02 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SU-ENR-CA-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 4.990

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	1.19e+06	3.13 y	14:31	1.28	47.1		-	-	*			
13C-PCB-1	3.96e+07	3.25 y	14:30	0.83	1810					90.1	9.92e+06	3.02e+06
PCB-2	9.88e+04	3.49 y	16:45	1.15	4.46		-	-	*			
PCB-3	3.55e+05	3.26 y	16:58	1.27	14.9		-	-	*			
13C-PCB-3	3.76e+07	3.35 y	16:57	0.83	1700					84.8	8.24e+06	2.43e+06
PCB-4	3.55e+06	1.44 y	18:12	1.44	164		-	-	*			
PCB-10	2.57e+05	1.39 y	18:17	1.35	9.18		-	-	*			
13C-PCB-4	3.01e+07	1.62 y	18:10	0.68	1660					82.7	5.38e+06	3.40e+06
PCB-9	7.00e+05	1.44 y	19:54	1.44	23.4		-	-	*			
PCB-7	8.82e+05	1.37 y	19:55	1.55	27.4		-	-	*			
PCB-6	3.70e+06	1.34 y	20:31	1.44	124		-	-	*			
PCB-8	1.42e+07	1.52 y	20:54	1.45	473		-	-	*			
PCB-5	4.68e+05	1.66 y	20:59	1.46	15.4		-	-	*			
PCB-14	*	* n	NotFnd	1.36	*		755	2330	1.05			
PCB-11	3.98e+05	1.46 y	23:05	1.31	14.7		-	-	*			
PCB-13	6.02e+05	1.45 y	23:26	1.38	21.0		-	-	*			
PCB-12	6.78e+05	1.76 y	23:27	1.44	22.7		-	-	*			
PCB-15	8.47e+06	1.49 y	23:46	1.38	232		-	-	*			
13C-PCB-15	5.30e+07	1.65 y	23:45	1.01	1970					98.3	7.85e+06	4.75e+06
PCB-19	8.14e+05	1.15 y	22:05	1.31	72.7		-	-	*			
PCB-30	*	* n	NotFnd	1.68	*		630	556	0.813			
PCB-18	9.86e+06	1.08 y	23:39	1.25	921		-	-	*			
PCB-17	4.94e+06	1.08 y	23:49	1.37	420		-	-	*			
PCB-27	6.88e+05	1.04 y	24:20	1.68	47.8		-	-	*			
PCB-24	5.02e+05	1.16 y	24:21	1.74	33.6		-	-	*			
PCB-16	3.43e+06	1.05 y	24:49	1.49	270		-	-	*			
PCB-32	3.89e+06	1.17 y	24:51	1.50	302		-	-	*			
13C-PCB-19	1.72e+07	1.11 y	22:04	0.35	1830					91.5	2.26e+06	2.08e+06
13C-PCB-9	5.32e+07	1.65 y	19:52	-	14.3							
PCB-34	2.60e+05	1.17 y	25:36	1.40	8.19		-	-	*			
PCB-23	4.60e+04	1.07 y	25:43	1.50	1.35	J	-	-	*			
PCB-29	2.22e+05	1.05 y	25:55	1.31	7.46		-	-	*			
PCB-26	5.63e+06	1.10 y	26:08	1.25	199		-	-	*			
PCB-25	3.29e+06	1.11 y	26:17	1.60	90.6		-	-	*			
PCB-31	2.62e+07	1.10 y	26:37	1.21	954		-	-	*			
PCB-28	3.03e+07	1.12 y	26:43	1.69	790		-	-	*			
PCB-20	1.67e+07	1.12 y	27:19	1.36	541		-	-	*		Co-elute PCB 21/33	
PCB-21	1.67e+07	1.12 y	27:19	1.36	541		-	-	*		Co-elute PCB 20/33	
PCB-33	1.67e+07	1.12 y	27:19	1.36	541		-	-	*		Co-elute PCB 20/21	
PCB-22	9.59e+06	1.13 y	27:43	1.41	301		-	-	*			
PCB-36	*	* n	NotFnd	1.20	*		550	482	0.629			
PCB-39	*	* n	NotFnd	1.05	*		550	482	0.716			
PCB-38	3.49e+05	1.16 y	29:29	1.39	11.1		-	-	*			
PCB-35	5.86e+05	1.13 y	30:02	1.12	23.0		-	-	*			
PCB-37	9.17e+06	1.08 y	30:30	1.40	290		-	-	*			
13C-PCB-37	4.54e+07	1.07 y	30:28	1.54	2240					112	3.59e+06	3.28e+06

FAL ID: 11719-013-0001-SA Filename: 31JUL18Z Sam:11 Acquired: 31-JUL-18 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SU-ENR-CA-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 4.990

PCB-54	4.38e+04	0.87	y	25:39	1.13	3.19	J	-	-	*			
PCB-50	4.91e+04	0.79	y	26:45	0.72	5.63		-	-	*			
PCB-53	2.03e+06	0.79	y	27:20	0.76	219		-	-	*			
PCB-51	6.37e+05	0.75	y	27:40	0.76	69.0		-	-	*			
PCB-45	1.61e+06	0.76	y	28:06	0.63	209		-	-	*			
PCB-46	6.63e+05	0.77	y	28:32	0.65	84.4		-	-	*			
PCB-52	3.85e+07	0.77	y	29:00	0.92	3450		-	-	*	Co-elute PCB 69		
PCB-69	3.85e+07	0.77	y	29:00	0.92	3450		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	0.87	*		390	430	0.768			
PCB-43	1.67e+07	0.77	y	29:16	0.72	1910		-	-	*	Co-elute PCB 49		
PCB-49	1.67e+07	0.77	y	29:16	0.72	1910		-	-	*	Co-elute PCB 43		
PCB-47	4.87e+06	0.87	y	29:29	0.84	479		-	-	*			
PCB-48	4.27e+06	0.69	y	29:35	0.96	368		-	-	*	Co-elute PCB 75		
PCB-75	4.27e+06	0.69	y	29:35	0.96	368		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.01	*		390	430	0.662			
PCB-62	*	*	n	NotFnd	0.97	*		390	430	0.692			
PCB-44	1.76e+07	0.77	y	30:16	0.66	2190		-	-	*			
PCB-42	6.55e+06	0.78	y	30:31	0.85	635		-	-	*	Co-elute PCB 59		
PCB-59	6.55e+06	0.78	y	30:31	0.85	635		-	-	*	Co-elute PCB 42		
PCB-72	1.82e+07	0.77	y	31:09	0.92	1640		-	-	*	Co-elute PCB 41/71/64		
PCB-41	1.82e+07	0.77	y	31:09	0.92	1640		-	-	*	Co-elute PCB 72/71/64		
PCB-71	1.82e+07	0.77	y	31:09	0.92	1640		-	-	*	Co-elute PCB 72/41/64		
PCB-64	1.82e+07	0.77	y	31:09	0.92	1640		-	-	*	Co-elute PCB 72/41/71		
PCB-68	1.89e+05	0.77	y	31:25	1.03	15.1		-	-	*			
PCB-40	2.01e+06	0.75	y	31:34	0.59	280		-	-	*			
PCB-57	1.73e+05	0.83	y	31:51	0.97	14.7		-	-	*			
PCB-67	6.85e+05	0.83	y	32:07	0.98	57.3		-	-	*			
PCB-58	9.23e+04	0.79	y	32:12	0.90	8.49		-	-	*			
PCB-63	9.84e+05	0.82	y	32:23	1.02	79.5		-	-	*			
PCB-74	1.22e+07	0.77	y	32:39	1.13	889		-	-	*			
PCB-61	3.57e+07	0.78	y	32:50	1.07	2740		-	-	*	Co-elute PCB 70		
PCB-70	3.57e+07	0.78	y	32:50	1.07	2740		-	-	*	Co-elute PCB 61		
PCB-76	2.35e+07	0.77	y	33:03	1.00	1940		-	-	*	Co-elute PCB 66		
PCB-66	2.35e+07	0.77	y	33:03	1.00	1940		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.10	*		390	430	0.609			
PCB-55	7.21e+05	0.77	y	33:29	1.07	55.6		-	-	*			
13C-PCB-54	2.43e+07	0.82	y	25:36	1.28	1440					71.9	2.76e+06	3.38e+06
PCB-104	*	*	n	NotFnd	1.27	*		400	288	0.781			
PCB-96	3.22e+05	1.58	y	31:25	1.13	32.7		-	-	*			
PCB-103	2.83e+05	1.63	y	31:49	0.97	33.7		-	-	*			
PCB-100	1.11e+05	1.74	y	32:10	0.98	13.1		-	-	*			
PCB-94	1.19e+05	1.58	y	32:35	0.87	15.7		-	-	*			
PCB-98	*	*	n	NotFnd	1.02	*		400	288	0.977	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.02	*		400	288	0.977	Co-elute PCB 98		
PCB-95	2.59e+07	1.60	y	33:05	0.88	3400		-	-	*			
PCB-93	*	*	n	NotFnd	0.81	*		400	288	1.22			
PCB-88	4.07e+06	1.53	y	33:28	0.91	517		-	-	*	Co-elute PCB 91		
PCB-91	4.07e+06	1.53	y	33:28	0.91	517		-	-	*	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.12	*		400	288	0.888			
13C-PCB-104	1.74e+07	1.61	y	30:04	0.76	1740					86.6	2.14e+06	1.33e+06
13C-PCB-28	4.59e+07	1.06	y	26:42	1.88	1860					92.6	5.78e+06	5.37e+06
13C-PCB-52	2.64e+07	0.78	y	28:59	-	19.6							

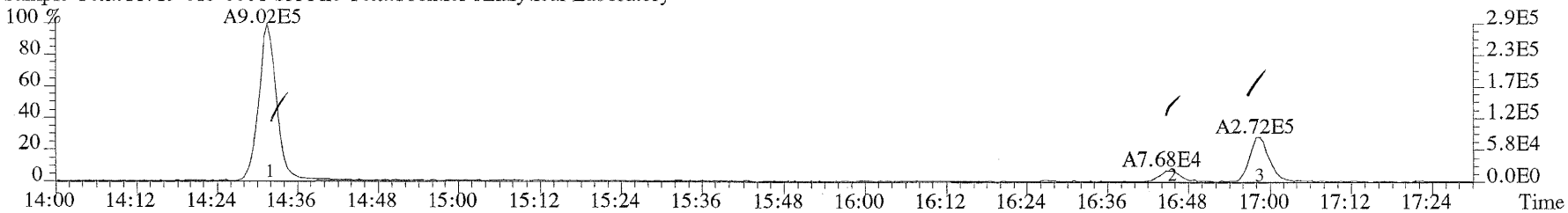
PCB-56	2.07e+07	0.81	y	34:01	1.26	890		-	-	*		Co-elute PCB 60	
PCB-60	2.07e+07	0.81	y	34:01	1.26	890		-	-	*		Co-elute PCB 56	
PCB-79	1.08e+06	0.81	y	35:01	1.19	49.3		-	-	*			
PCB-78	*	*	n	NotFnd	1.13	*		595	757	0.801			
PCB-81	2.12e+06	0.78	y	36:12	1.25	93.7		-	-	*			
13C-PCB-81	3.63e+07	0.82	y	36:11	1.79	1890					94.4	3.50e+06	4.24e+06
PCB-77	3.63e+06	0.82	y	36:46	1.17	166		-	-	*			
13C-PCB-77	3.76e+07	0.82	y	36:45	1.72	2040					102	3.29e+06	3.98e+06
PCB-155	*	*	n	NotFnd	1.21	*		448	284	0.819			
PCB-150	6.30e+04	1.16	y	35:27	1.07	7.39		-	-	*			
PCB-152	4.68e+04	1.25	y	35:53	1.04	5.66		-	-	*			
PCB-145	1.99e+04	1.26	y	36:18	1.09	2.30	J	-	-	*			
PCB-136	5.07e+06	1.30	y	36:36	0.97	654		-	-	*			
PCB-148	*	*	n	NotFnd	0.86	*		448	284	1.16			
PCB-154	4.29e+05	1.37	y	37:11	1.02	53.0		-	-	*			
13C-PCB-155	1.59e+07	1.32	y	34:13	0.83	1780					88.9	2.09e+06	1.60e+06
13C-PCB-111	2.52e+07	1.61	y	36:20	1.23	1910					95.2	3.35e+06	2.10e+06
13C-PCB-101	2.15e+07	1.61	y	34:40	-	16.5							
PCB-84	1.95e+07	1.60	y	34:20	0.58	1830		-	-	*		Co-elute PCB 92	
PCB-92	1.95e+07	1.60	y	34:20	0.58	1830		-	-	*		Co-elute PCB 84	
PCB-89	4.96e+05	1.53	y	34:31	0.56	48.5		-	-	*			
PCB-90	5.32e+07	1.60	y	34:42	0.66	4370		-	-	*		Co-elute PCB 101	
PCB-101	5.32e+07	1.60	y	34:42	0.66	4370		-	-	*		Co-elute PCB 90	
PCB-113	*	*	n	NotFnd	0.69	*		930	710	1.54			
PCB-99	2.16e+07	1.60	y	35:00	0.75	1560		-	-	*			
PCB-119	1.12e+06	1.61	y	35:27	0.79	77.6		-	-	*			
PCB-83	2.33e+06	1.57	y	35:35	0.67	189		-	-	*		Co-elute PCB 112	
PCB-112	2.33e+06	1.57	y	35:35	0.67	189		-	-	*		Co-elute PCB 83	
PCB-109	*	*	n	NotFnd	0.80	*		930	710	1.33			
PCB-97	1.44e+07	1.57	y	35:56	0.72	1080		-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*		930	710	1.60			
PCB-125	2.28e+07	1.54	y	36:12	0.73	1690		-	-	*		Co-elute PCB 87/117	
PCB-87	2.28e+07	1.54	y	36:12	0.73	1690		-	-	*		Co-elute PCB 125/117	
PCB-117	2.28e+07	1.54	y	36:12	0.73	1690		-	-	*		Co-elute PCB 125/87	
PCB-111	1.35e+06	1.53	y	36:21	0.91	80.7		-	-	*		Co-elute PCB 115	
PCB-115	1.35e+06	1.53	y	36:21	0.91	80.7		-	-	*		Co-elute PCB 111	
PCB-85	7.67e+06	1.55	y	36:27	0.69	599		-	-	*		Co-elute PCB 116	
PCB-116	7.67e+06	1.55	y	36:27	0.69	599		-	-	*		Co-elute PCB 85	
PCB-120	1.12e+05	1.60	y	36:36	0.86	7.08		-	-	*			
PCB-110	6.69e+07	1.59	y	36:49	0.85	4260		-	-	*			
PCB-82	4.90e+06	1.58	y	37:24	0.51	521		-	-	*			
PCB-124	4.18e+06	1.57	y	38:05	1.24	183		-	-	*			
PCB-108	6.20e+06	1.61	y	38:14	1.24	272		-	-	*		Co-elute PCB 107	
PCB-107	6.20e+06	1.61	y	38:14	1.24	272		-	-	*		Co-elute PCB 108	
PCB-123	1.16e+06	1.59	y	38:23	1.50	43.6		-	-	*			
13C-PCB-123	3.55e+07	1.66	y	38:21	1.55	1790					89.5	4.90e+06	2.99e+06
PCB-118	8.96e+07	1.62	y	38:33	1.11	4190		-	-	*		Co-elute PCB 106	
PCB-106	8.96e+07	1.62	y	38:33	1.11	4190		-	-	*		Co-elute PCB 118	
13C-PCB-118	3.85e+07	1.59	y	38:33	1.75	1730					86.3	4.75e+06	2.89e+06
PCB-114	2.30e+06	1.57	y	39:10	1.30	94.6		-	-	*			
13C-PCB-114	3.73e+07	1.64	y	39:09	1.58	1860					92.6	4.86e+06	3.00e+06
PCB-122	1.18e+06	1.67	y	39:17	1.17	54.8		-	-	*			
PCB-105	3.67e+07	1.61	y	39:58	1.24	1620		-	-	*			
13C-PCB-105	3.66e+07	1.62	y	39:58	1.49	1940					96.7	4.77e+06	2.96e+06

PCB-127	*	*	n	NotFnd	1.09	*	910	730	0.971				
PCB-126	4.06e+05	1.54	y	42:05	1.28	18.0	-	-	*				
13C-PCB-126	3.53e+07	1.62	y	42:07	1.40	1980				98.8	4.12e+06	2.53e+06	
PCB-151	8.03e+06	1.30	y	37:48	0.78	755	-	-	*				
PCB-135	5.43e+06	1.27	y	38:00	0.91	436	-	-	*				
PCB-144	2.65e+06	1.27	y	38:06	0.91	214	-	-	*				
PCB-147	1.17e+06	1.29	y	38:14	0.99	87.2	-	-	*				
PCB-139	3.71e+07	1.26	y	38:28	0.98	2790	-	-	*				Co-elute PCB 149
PCB-149	3.71e+07	1.26	y	38:28	0.98	2790	-	-	*				Co-elute PCB 139
PCB-140	4.35e+05	1.29	y	38:39	0.99	32.2	-	-	*				
PCB-143	2.87e+06	1.31	y	39:04	0.91	230	-	-	*				Co-elute PCB 134
PCB-134	2.87e+06	1.31	y	39:04	0.91	230	-	-	*				Co-elute PCB 143
PCB-131	1.64e+06	1.23	y	39:20	0.91	131	-	-	*				Co-elute PCB 133
PCB-133	1.64e+06	1.23	y	39:20	0.91	131	-	-	*				Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.83	*	507	458	1.07				
PCB-165	7.14e+06	1.27	y	39:43	1.09	481	-	-	*				Co-elute PCB 146
PCB-146	7.14e+06	1.27	y	39:43	1.09	481	-	-	*				Co-elute PCB 165
PCB-161	1.73e+07	1.26	y	39:58	1.00	1270	-	-	*				Co-elute PCB 132
PCB-132	1.73e+07	1.26	y	39:58	1.00	1270	-	-	*				Co-elute PCB 161
PCB-153	4.80e+07	1.27	y	40:06	1.09	3220	-	-	*				
PCB-168	*	*	n	NotFnd	1.19	*	507	458	0.751				
PCB-141	9.10e+06	1.26	y	40:48	0.92	725	-	-	*				
PCB-137	2.96e+06	1.27	y	41:11	0.82	265	-	-	*				
PCB-130	3.61e+06	1.30	y	41:16	0.89	297	-	-	*				
PCB-138	6.31e+07	1.28	y	41:37	1.20	3850	-	-	*				Co-elute PCB 163/164
PCB-163	6.31e+07	1.28	y	41:37	1.20	3850	-	-	*				Co-elute PCB 138/164
PCB-164	6.31e+07	1.28	y	41:37	1.20	3850	-	-	*				Co-elute PCB 138/163
PCB-158	8.72e+06	1.28	y	41:50	1.21	525	-	-	*				Co-elute PCB 160
PCB-160	8.72e+06	1.28	y	41:50	1.21	525	-	-	*				Co-elute PCB 158
PCB-129	2.91e+06	1.23	y	42:05	0.78	272	-	-	*				
PCB-166	3.79e+05	1.23	y	42:31	1.14	24.4	-	-	*				
PCB-159	3.43e+05	1.22	y	42:51	1.20	21.0	-	-	*				
PCB-128	1.02e+07	1.25	y	43:04	1.02	734	-	-	*				Co-elute PCB 162
PCB-162	1.02e+07	1.25	y	43:04	1.02	734	-	-	*				Co-elute PCB 128
PCB-167	3.03e+06	1.25	y	43:29	1.08	211	-	-	*				
13C-PCB-167	2.66e+07	1.31	y	43:27	1.16	1800				89.7	3.06e+06	2.32e+06	
PCB-156	8.07e+06	1.28	y	44:41	1.13	547	-	-	*				
13C-PCB-156	2.62e+07	1.27	y	44:41	1.10	1870				93.4	2.86e+06	2.19e+06	
PCB-157	1.88e+06	1.33	y	44:58	1.21	113	-	-	*				
13C-PCB-157	2.77e+07	1.30	y	44:56	1.13	1940				96.6	3.08e+06	2.29e+06	
PCB-169	*	*	n	NotFnd	1.13	*	507	458	0.716				
13C-PCB-169	2.89e+07	1.27	y	46:48	1.06	2140				107	3.31e+06	2.65e+06	

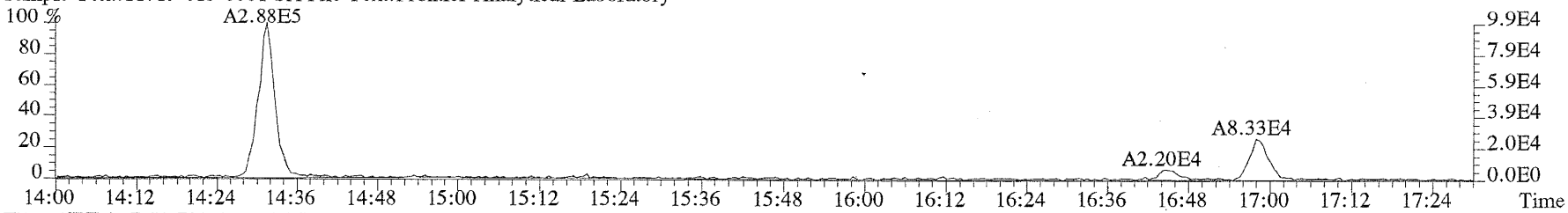
PCB-188	*	*	n	NotFnd	1.18	*	564	540	1.11			
13C-PCB-188	1.87e+07	1.09	y	39:42	0.83	1760				87.9	2.19e+06	2.02e+06
PCB-184	*	*	n	NotFnd	1.27	*	564	540	0.906			
PCB-179	2.99e+06	1.06	y	40:52	1.16	252	-	-	*			
PCB-176	1.02e+06	1.07	y	41:19	1.13	88.5	-	-	*			
PCB-186	*	*	n	NotFnd	1.20	*	564	540	0.965			
PCB-178	1.09e+06	1.04	y	42:21	0.82	131	-	-	*			
PCB-175	2.31e+05	1.01	y	42:41	0.85	26.8	-	-	*			
PCB-187	6.51e+06	1.09	y	42:51	0.97	657	-	-	*		Co-elute PCB 182	
PCB-182	6.51e+06	1.09	y	42:51	0.97	657	-	-	*		Co-elute PCB 187	
PCB-183	3.54e+06	1.05	y	43:09	0.92	377	-	-	*			
PCB-185	5.64e+05	1.02	y	43:47	0.87	63.4	-	-	*			
PCB-174	5.37e+06	1.04	y	44:07	0.88	596	-	-	*			
PCB-181	*	*	n	NotFnd	0.86	*	564	540	1.34			
PCB-177	3.33e+06	1.08	y	44:23	0.78	420	-	-	*			
PCB-171	1.84e+06	1.01	y	44:40	0.84	216	-	-	*			
PCB-173	1.77e+05	1.12	y	45:04	0.75	23.3	-	-	*			
PCB-172	9.73e+05	1.06	y	45:29	0.79	121	-	-	*			
PCB-192	*	*	n	NotFnd	1.11	*	564	540	1.04			
PCB-180	1.18e+07	1.07	y	45:49	1.07	1080	-	-	*			
PCB-193	9.38e+05	1.17	y	45:59	1.12	81.9	-	-	*			
PCB-191	4.27e+05	1.03	y	46:12	1.06	39.5	-	-	*			
PCB-170	5.98e+06	1.11	y	47:06	0.78	749	-	-	*			
PCB-190	1.75e+06	1.07	y	47:16	1.05	163	-	-	*			
PCB-189	3.91e+05	1.07	y	48:28	1.20	29.5	-	-	*			
13C-PCB-189	2.21e+07	1.09	y	48:27	0.72	2400				120	2.82e+06	2.61e+06
PCB-202	3.11e+05	0.90	y	44:49	1.07	51.9	-	-	*			
PCB-201	2.32e+05	0.87	y	45:16	0.97	42.5	-	-	*			
PCB-204	*	*	n	NotFnd	1.00	*	296	332	1.21			
PCB-197	9.07e+04	0.80	y	45:41	1.07	15.1	-	-	*			
PCB-200	2.26e+05	0.92	y	46:27	1.00	40.3	-	-	*			
PCB-198	9.43e+04	0.97	y	47:37	0.77	21.8	-	-	*			
PCB-199	1.44e+06	0.94	y	47:42	0.74	350	-	-	*			
PCB-203	1.73e+06	0.92	y	47:57	0.85	364	-	-	*		Co-elute PCB 196	
PCB-196	1.73e+06	0.92	y	47:57	0.85	364	-	-	*		Co-elute PCB 203	
13C-PCB-202	1.12e+07	0.91	y	44:48	0.48	1840				91.9	1.20e+06	1.40e+06
13C-PCB-178	1.50e+07	1.10	y	42:20	0.61	1920				95.9	1.66e+06	1.51e+06
13C-PCB-138	2.55e+07	1.30	y	41:35	-	18.4						
PCB-195	1.31e+06	0.89	y	49:03	0.90	95.6	-	-	*			
PCB-194	2.84e+06	0.92	y	49:52	0.92	204	-	-	*			
PCB-205	2.29e+05	0.86	y	50:07	1.19	12.7	-	-	*			
13C-PCB-205	3.05e+07	0.90	y	50:06	1.25	2020				101	4.07e+06	4.61e+06
PCB-208	3.65e+05	1.37	y	49:09	0.99	27.5	-	-	*			
13C-PCB-208	2.68e+07	0.81	y	49:08	1.27	1750				87.2	3.56e+06	4.51e+06
PCB-207	1.84e+05	1.43	y	49:27	1.01	15.9	-	-	*			
PCB-206	9.55e+05	1.32	y	51:18	0.96	103	-	-	*			
13C-PCB-206	1.93e+07	0.80	y	51:18	0.93	1710				85.2	2.40e+06	2.98e+06
PCB-209	4.96e+05	1.25	y	52:30	1.13	40.6	-	-	*			
13C-PCB-209	2.18e+07	1.21	y	52:28	1.04	1740				86.7	3.40e+06	2.84e+06
13C-PCB-194	2.42e+07	0.91	y	49:50	-	18.0						

Analyst: _____ Date: 8/20/18

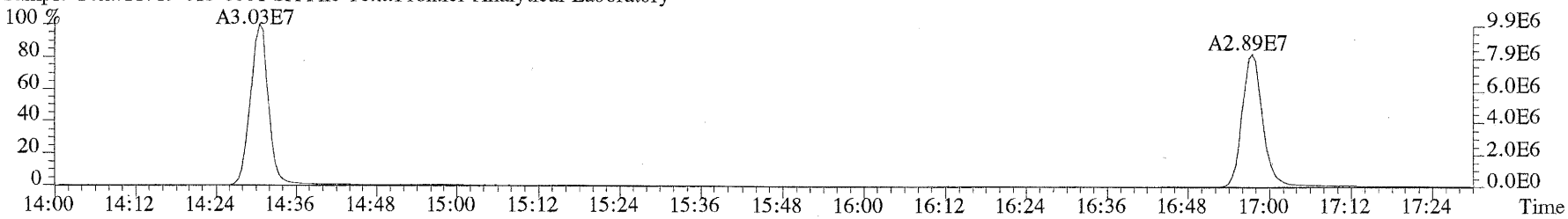
File:31JUL18Z #1-783 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



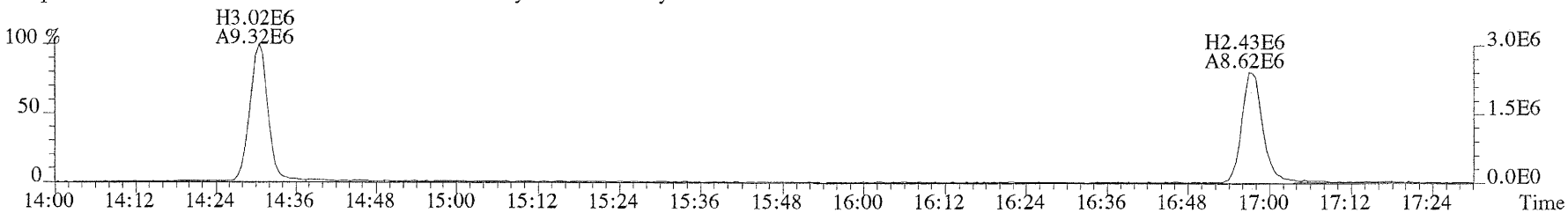
File:31JUL18Z #1-783 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



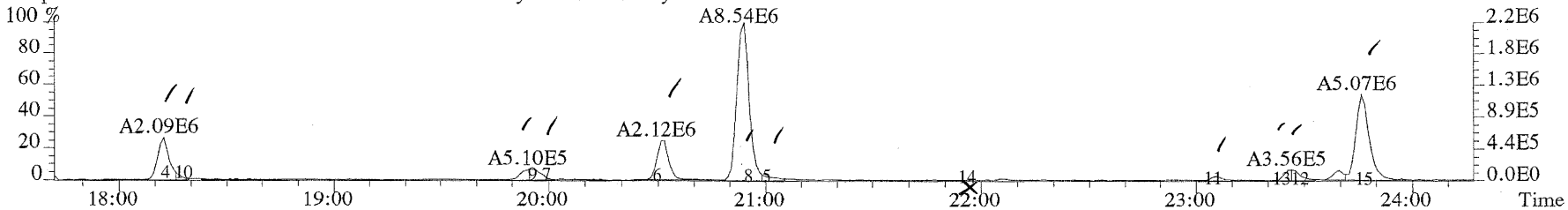
File:31JUL18Z #1-783 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



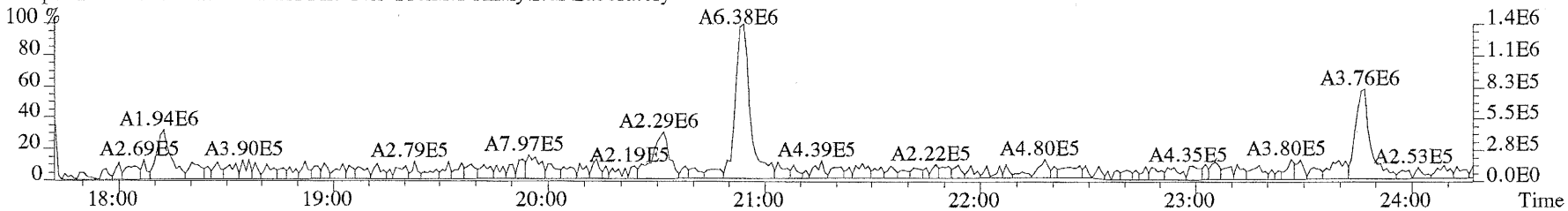
File:31JUL18Z #1-783 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



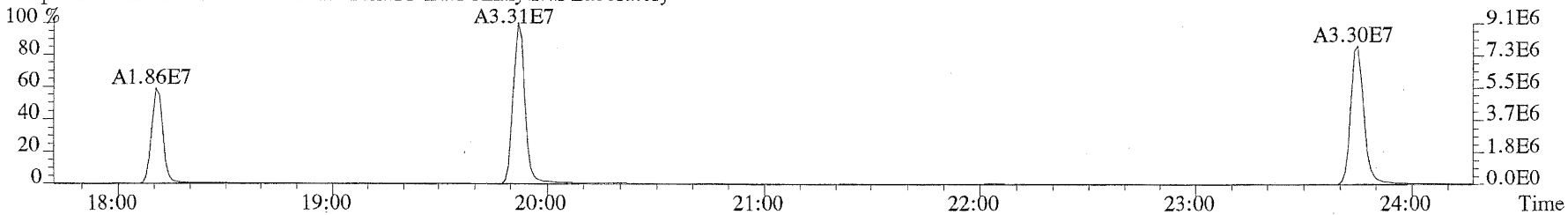
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



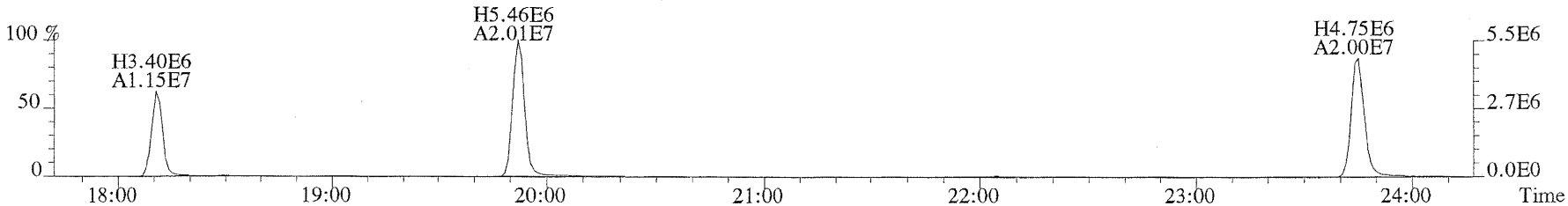
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



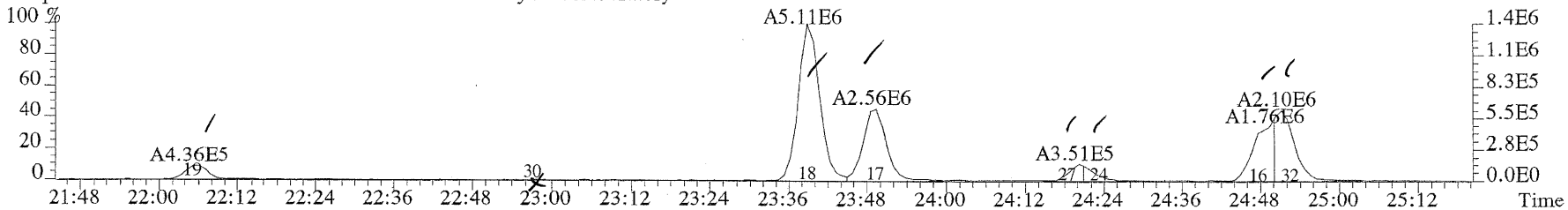
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



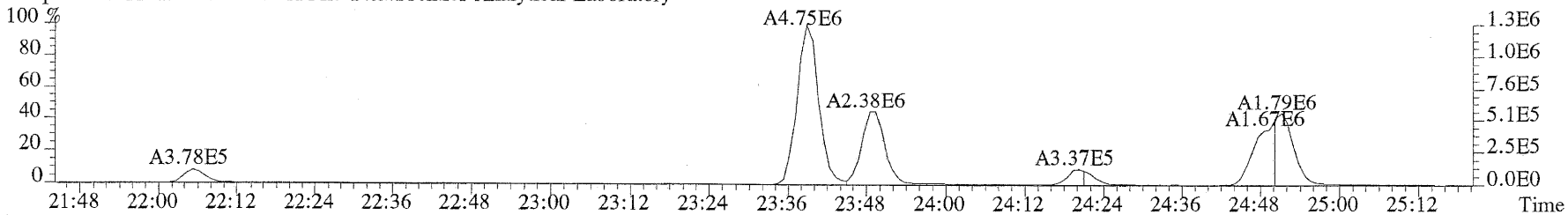
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



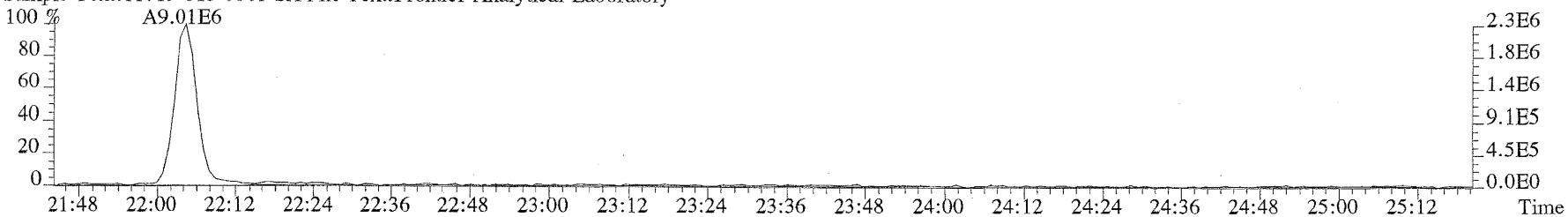
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



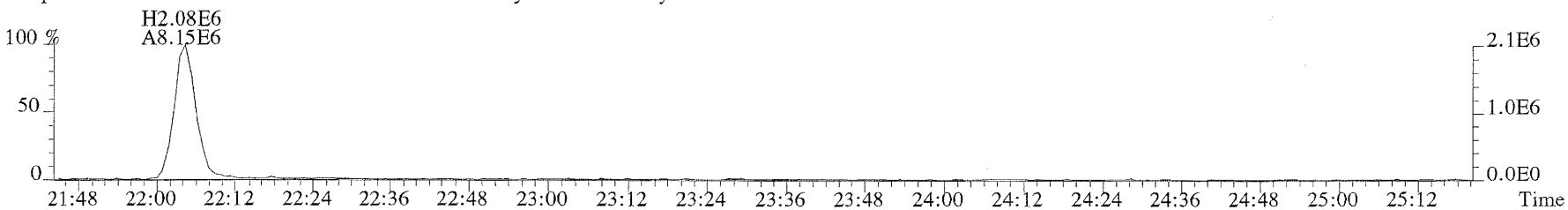
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



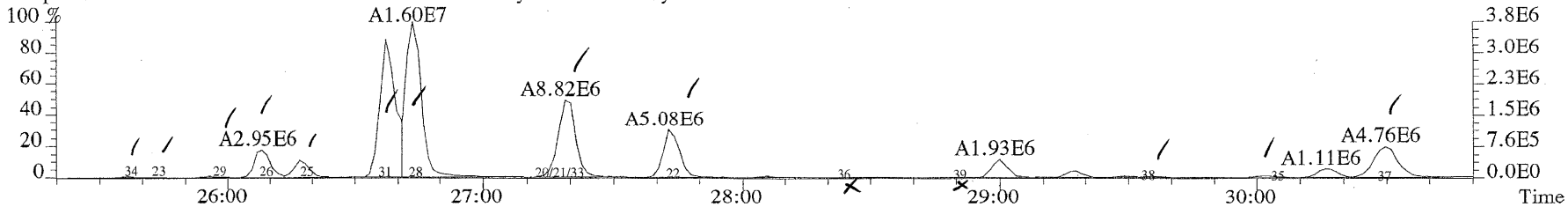
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



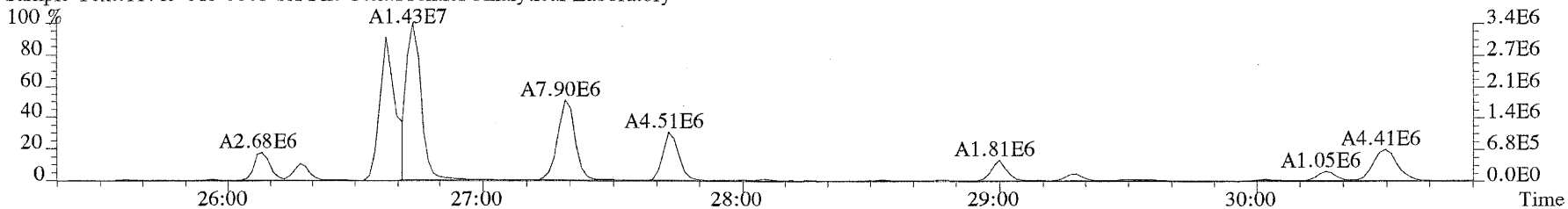
File:31JUL18Z #1-520 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



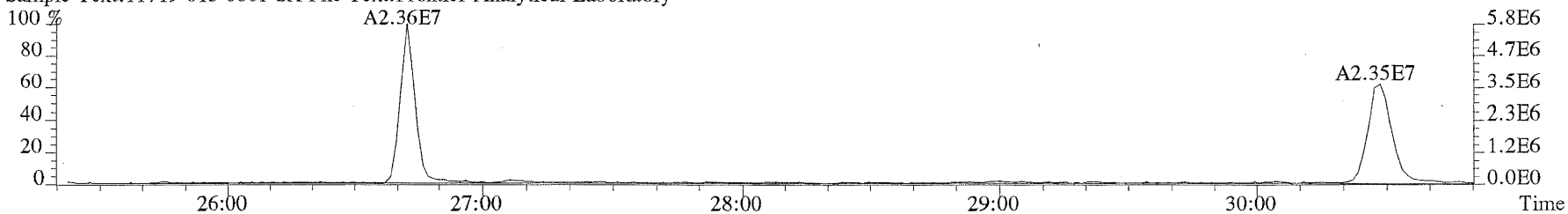
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



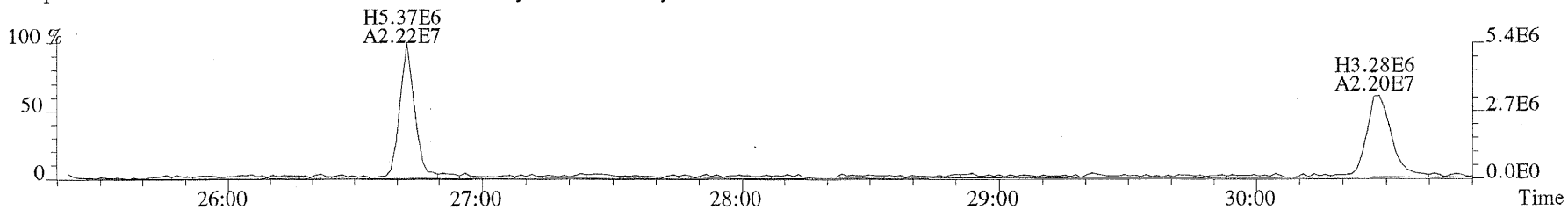
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



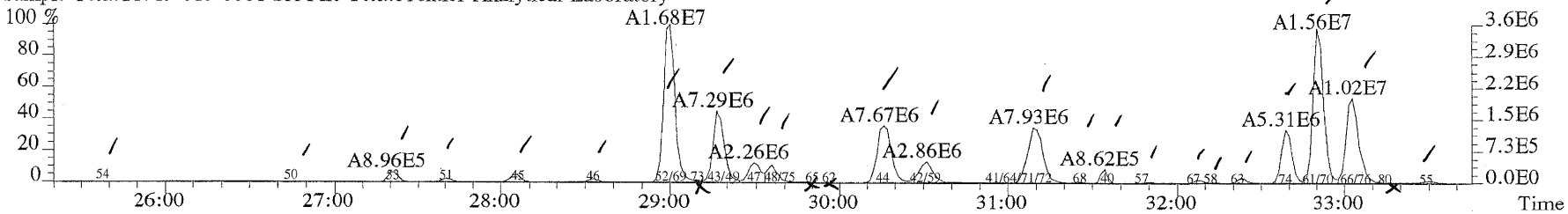
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



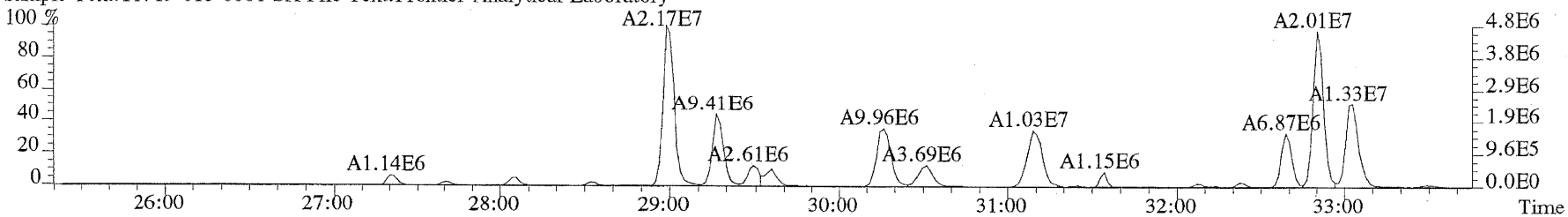
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



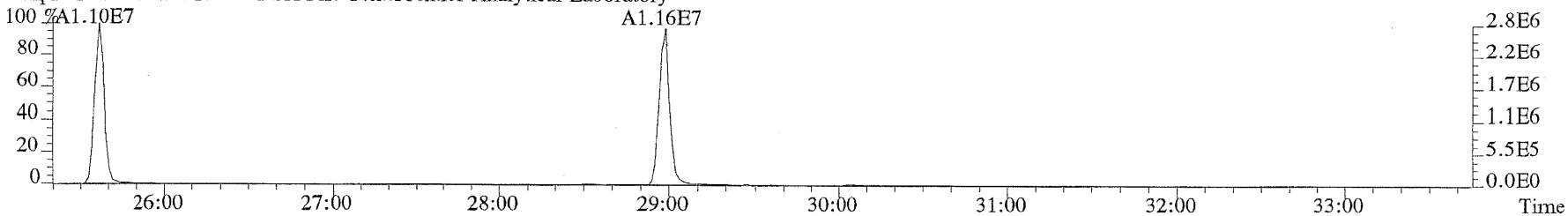
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



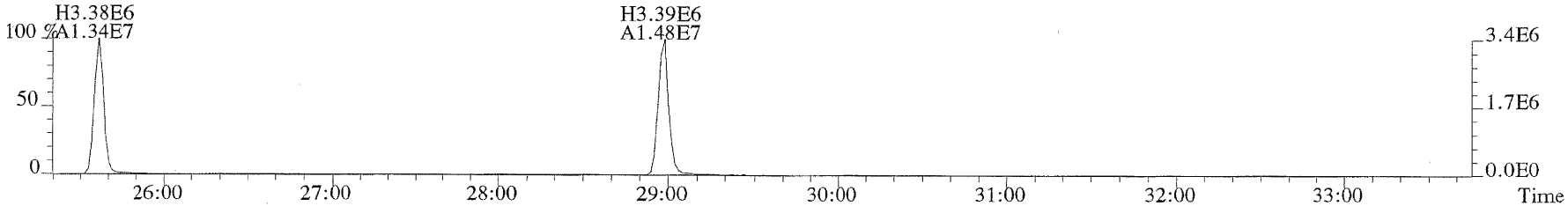
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



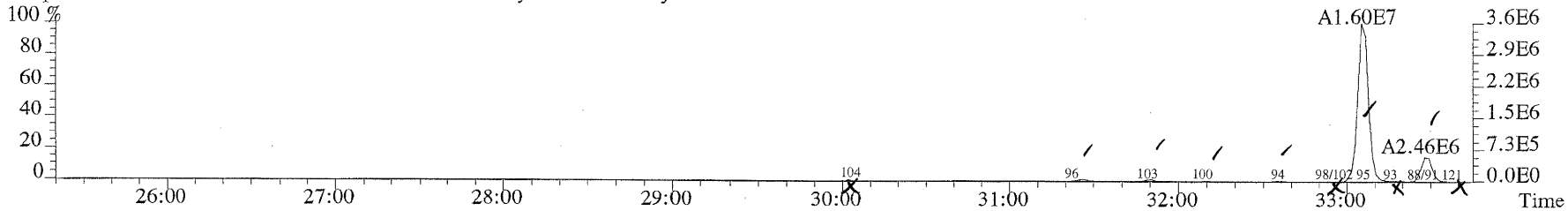
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



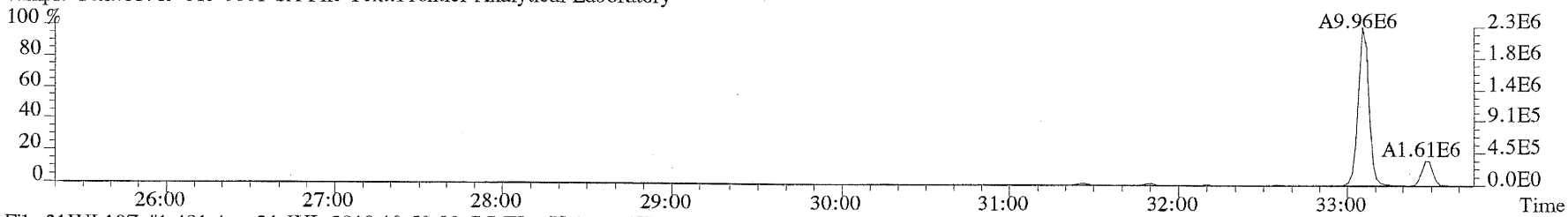
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



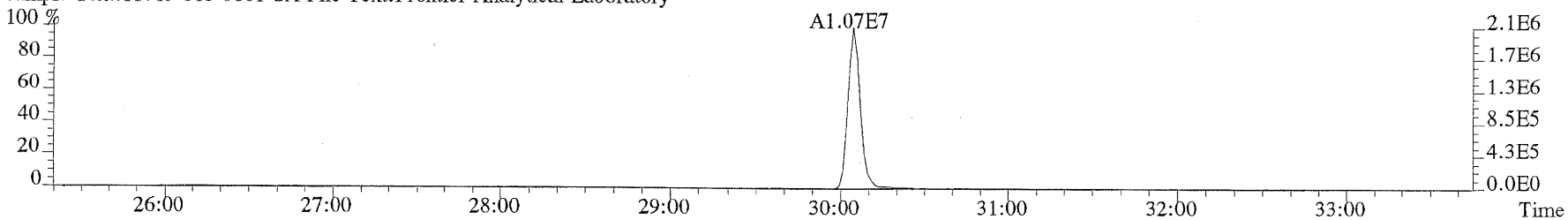
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



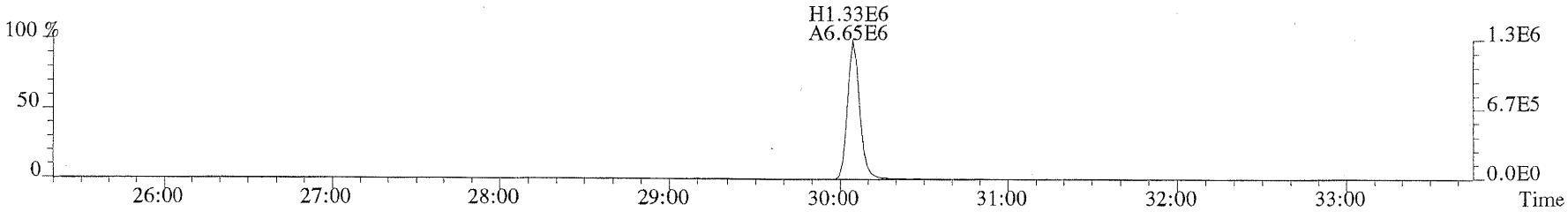
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



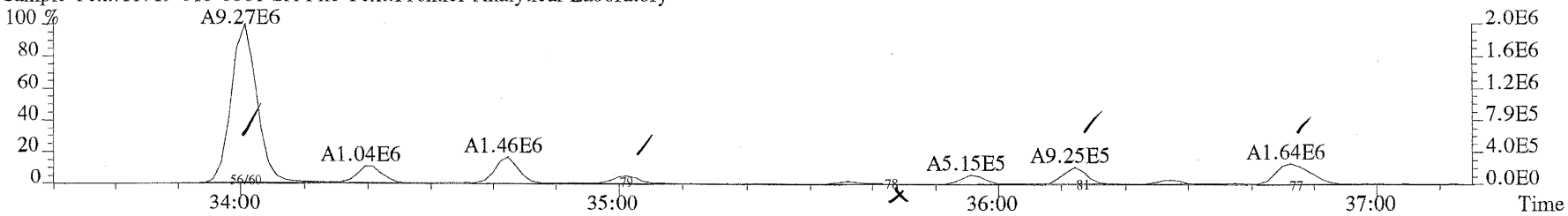
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



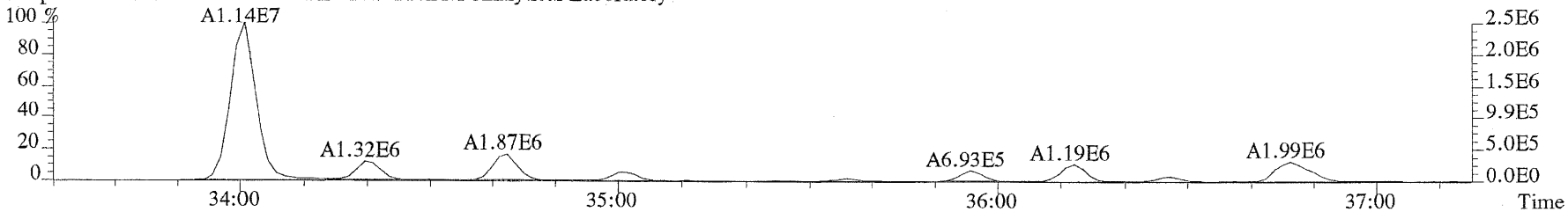
File:31JUL18Z #1-401 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



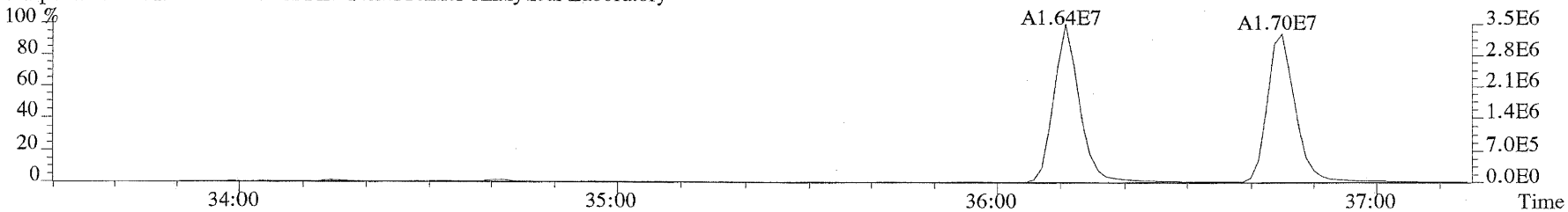
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



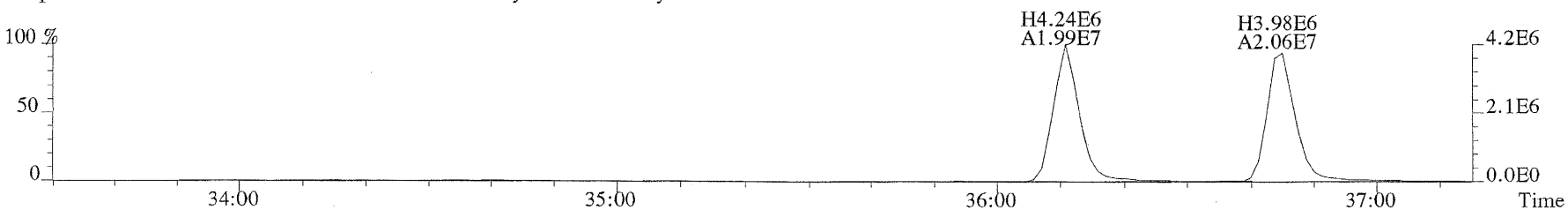
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



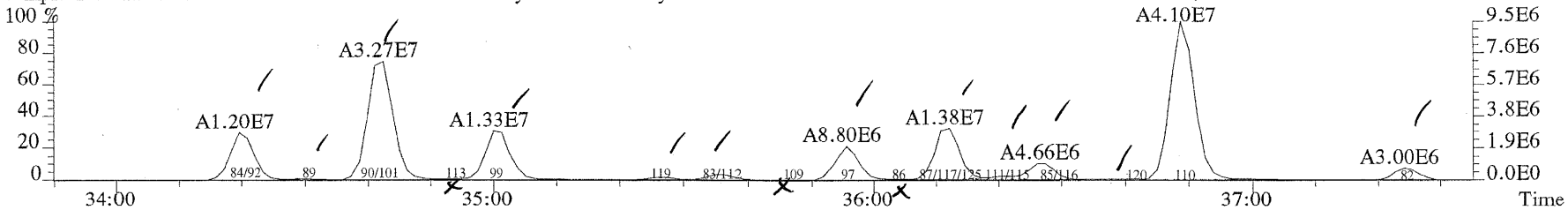
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



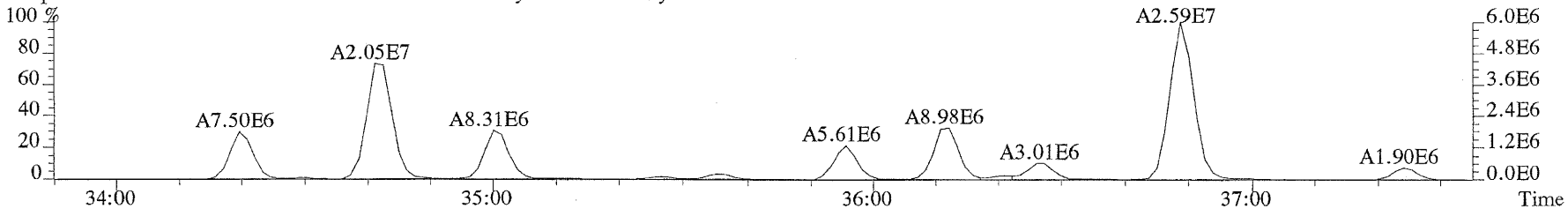
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



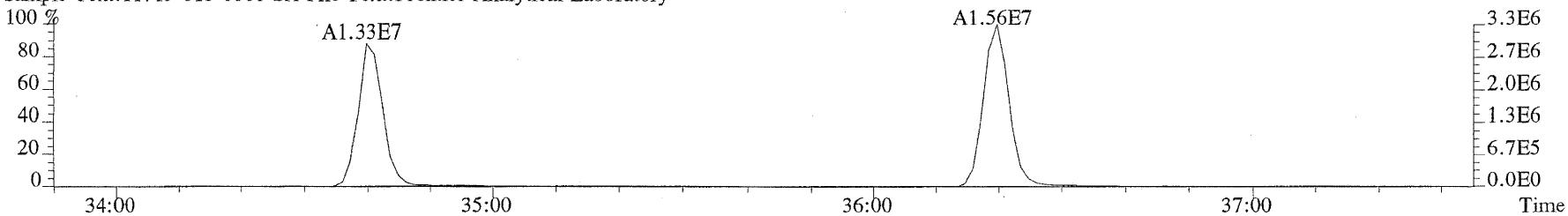
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



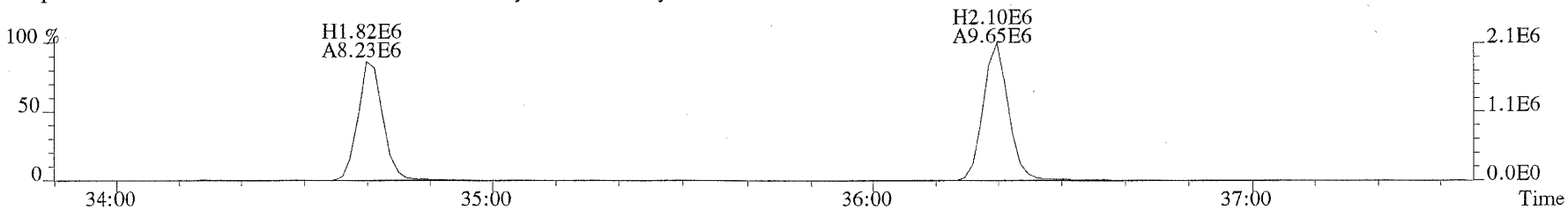
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



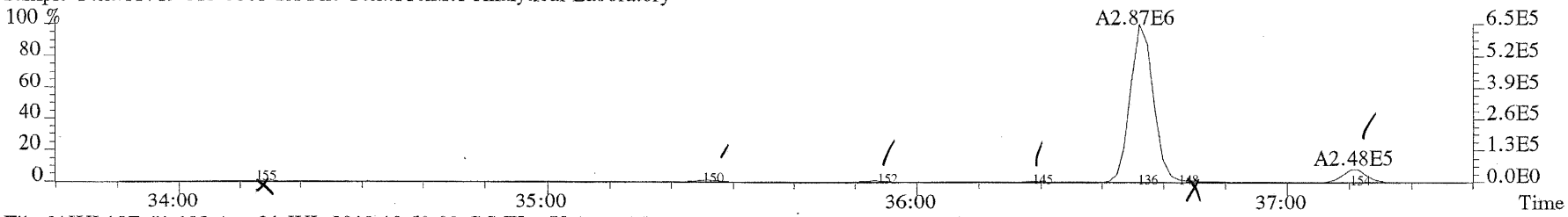
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



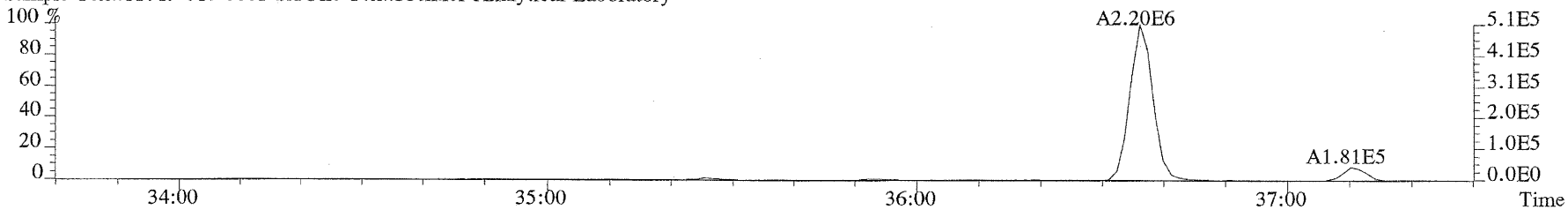
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



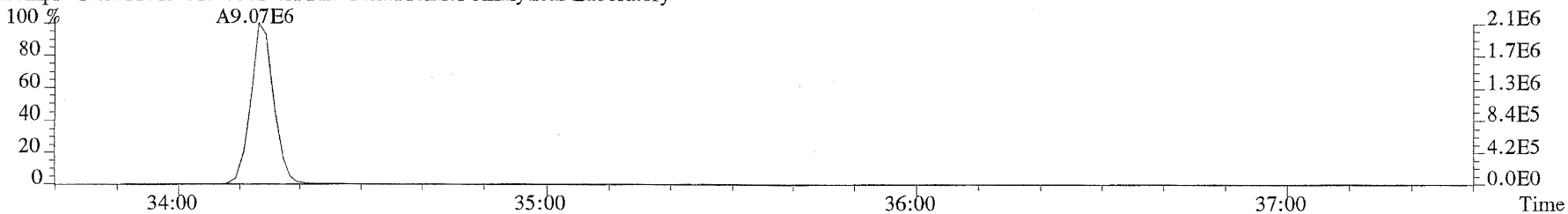
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



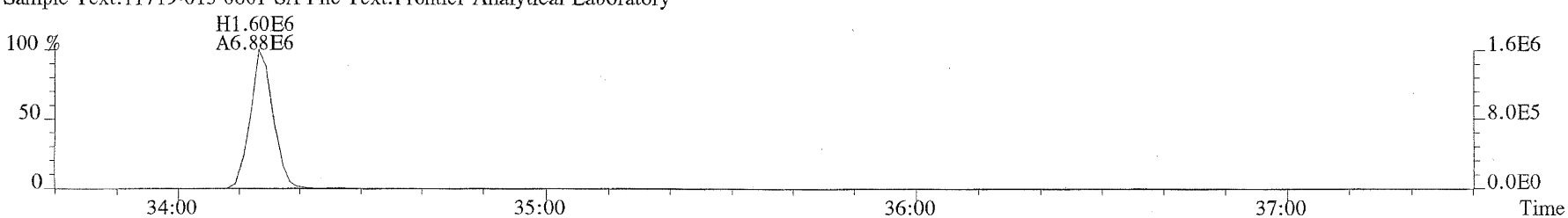
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



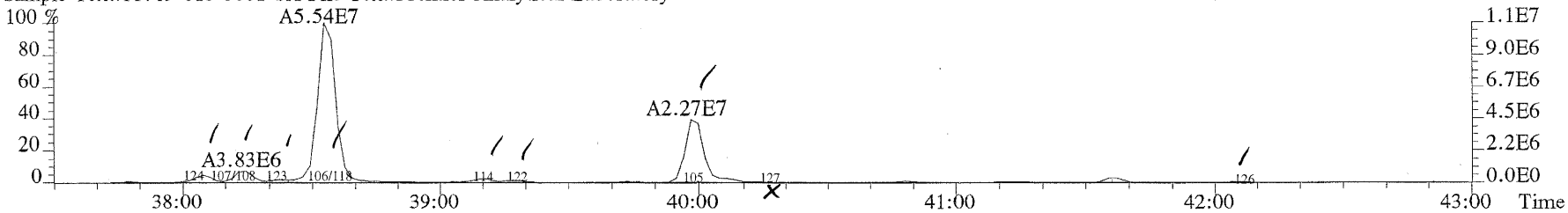
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



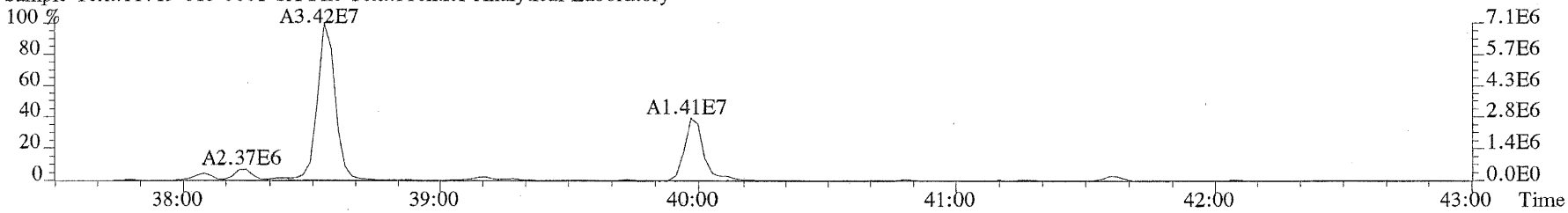
File:31JUL18Z #1-183 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



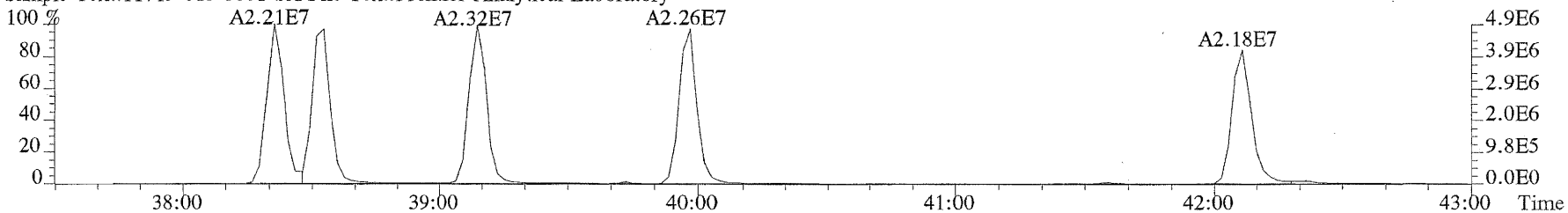
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



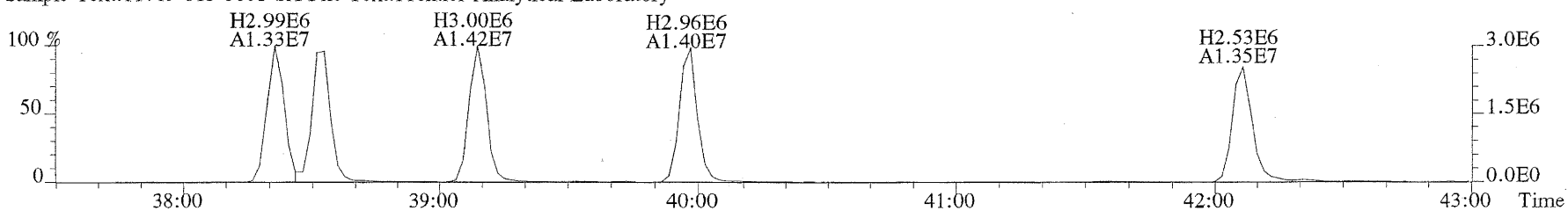
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



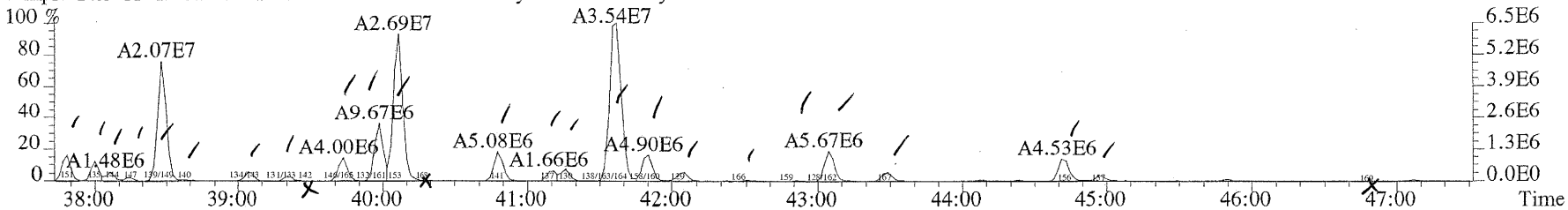
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



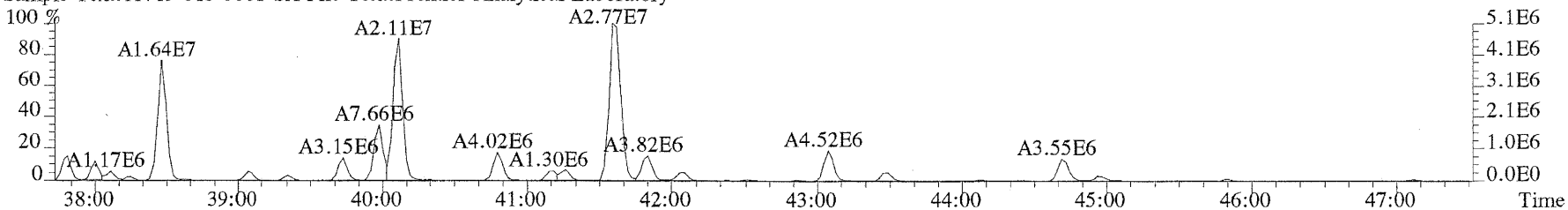
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



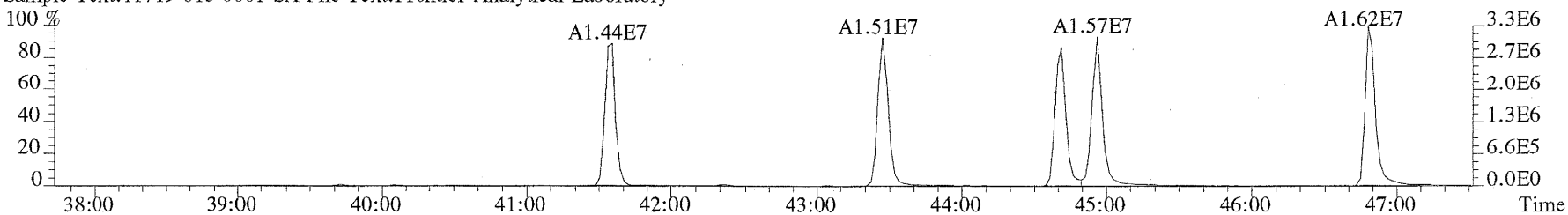
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



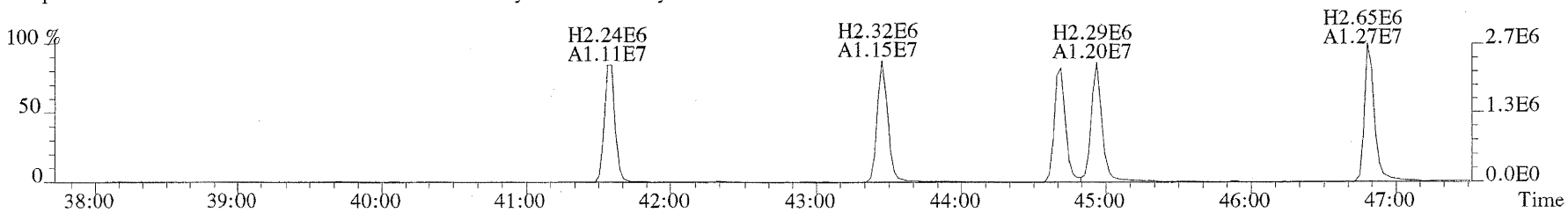
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



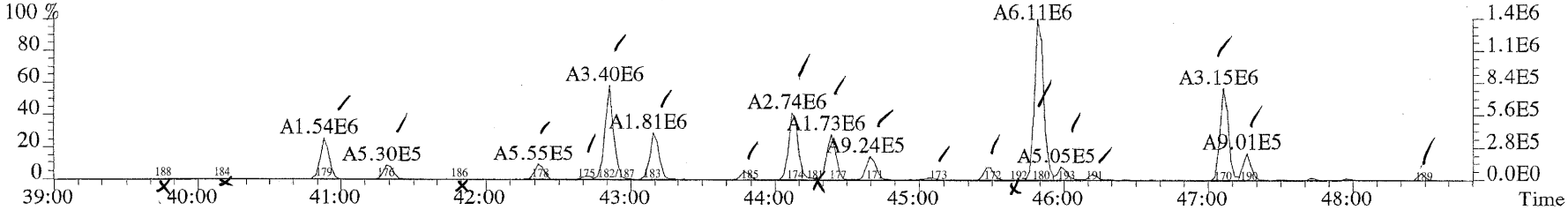
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



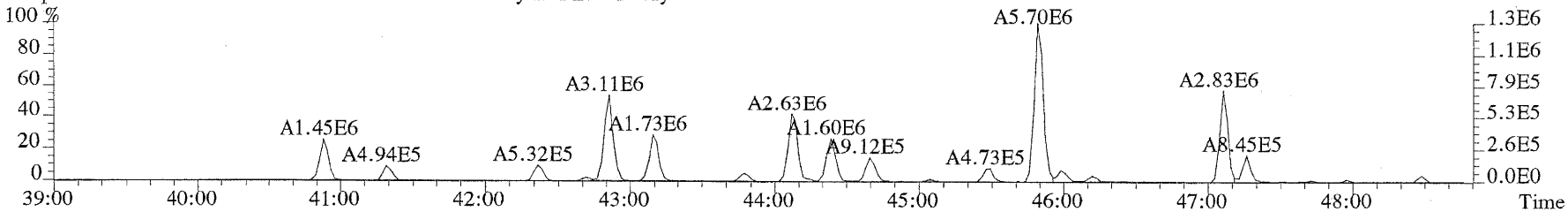
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



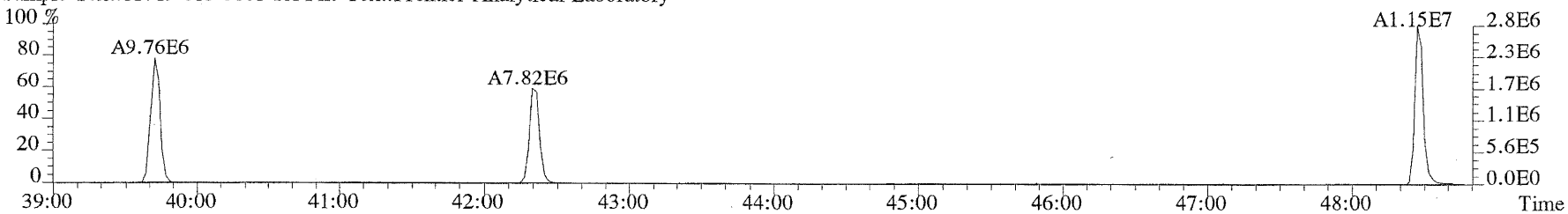
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



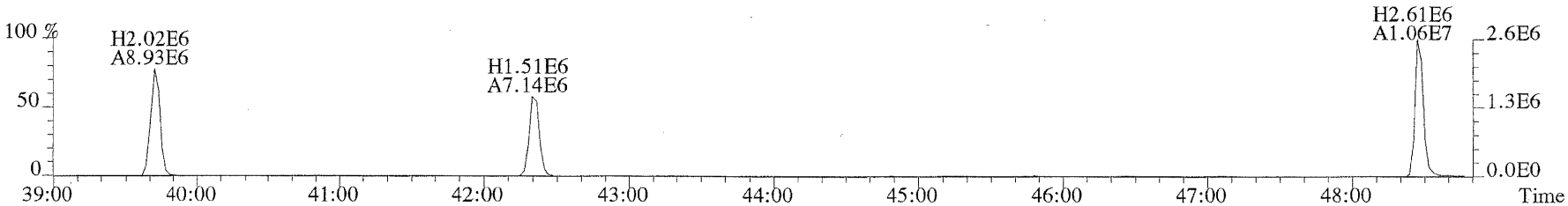
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



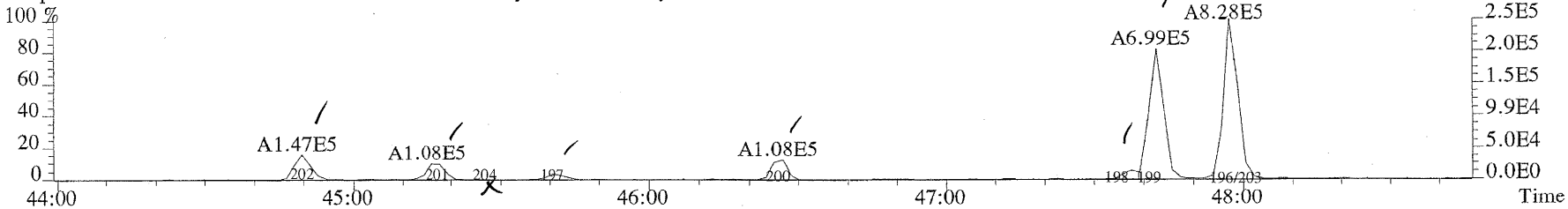
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



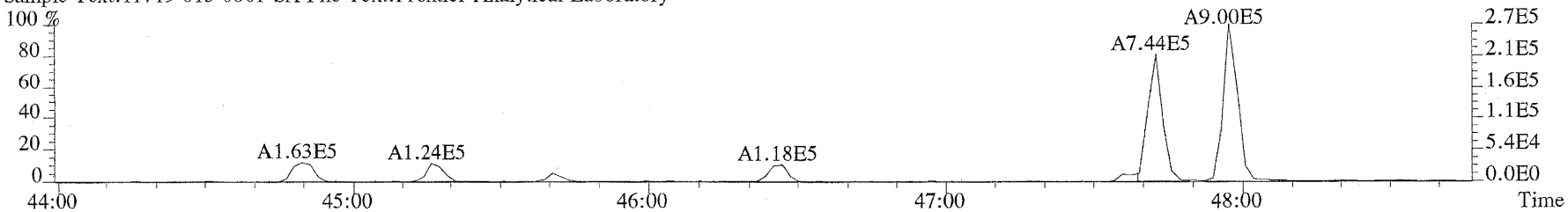
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



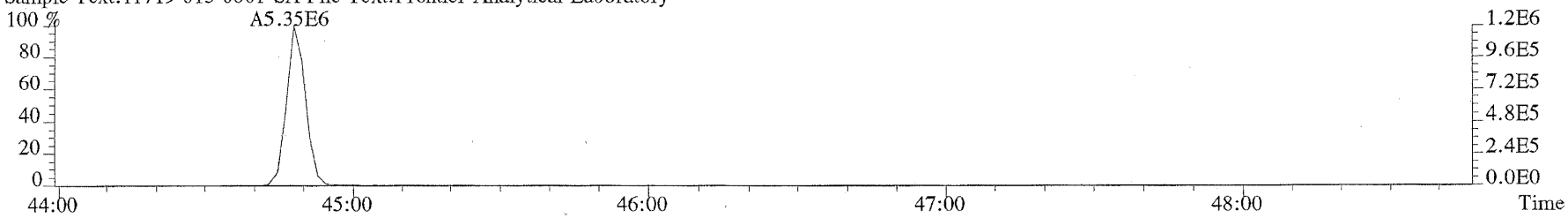
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



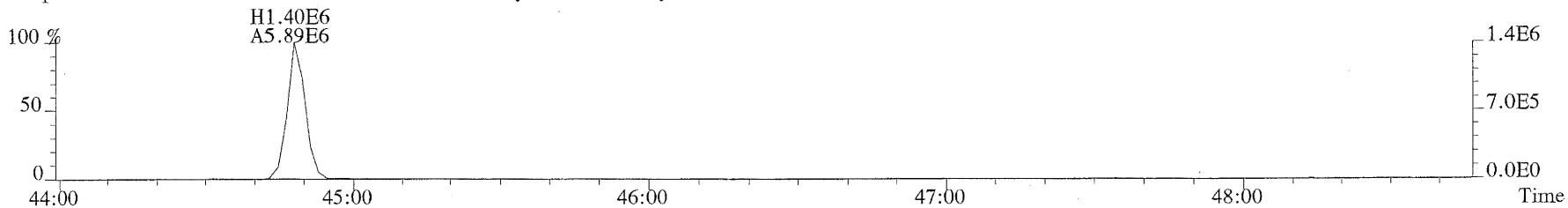
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



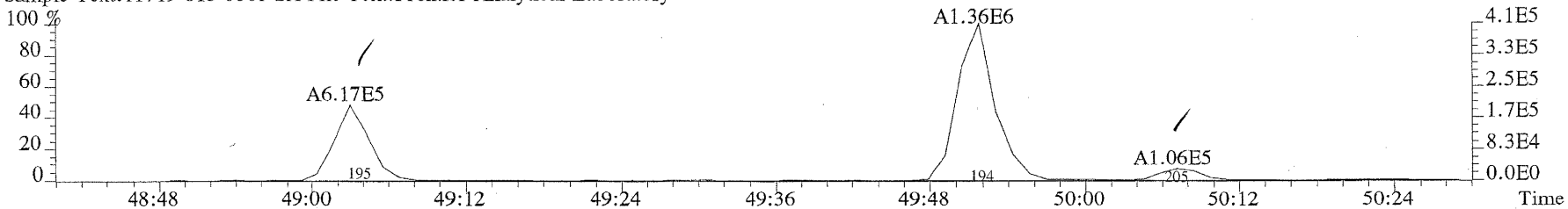
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



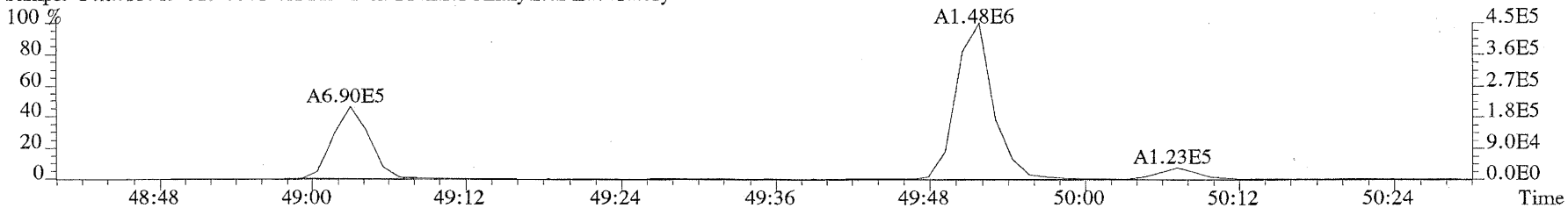
File:31JUL18Z #1-404 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



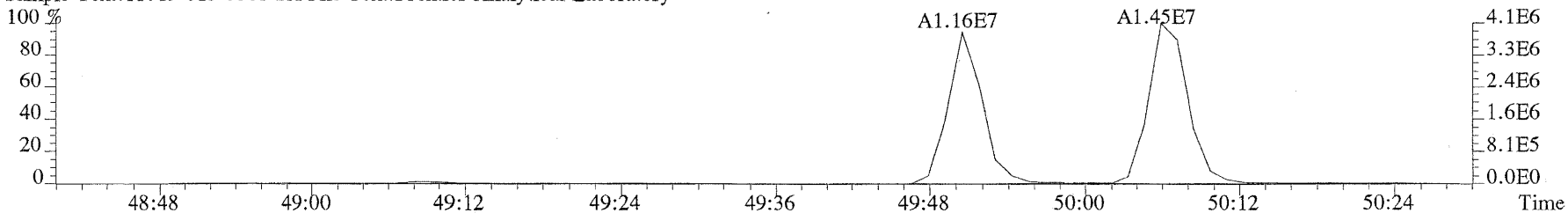
File:31JUL18Z #1-314 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



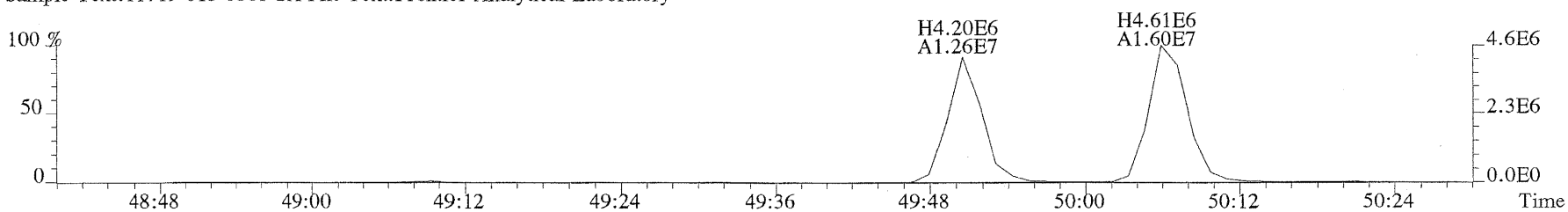
File:31JUL18Z #1-314 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



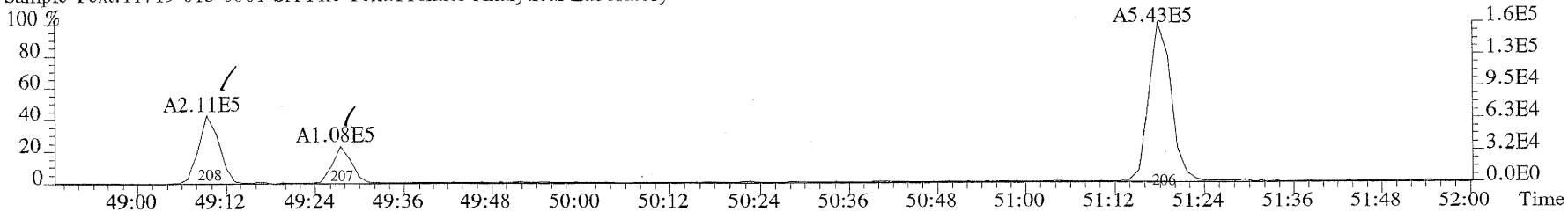
File:31JUL18Z #1-314 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



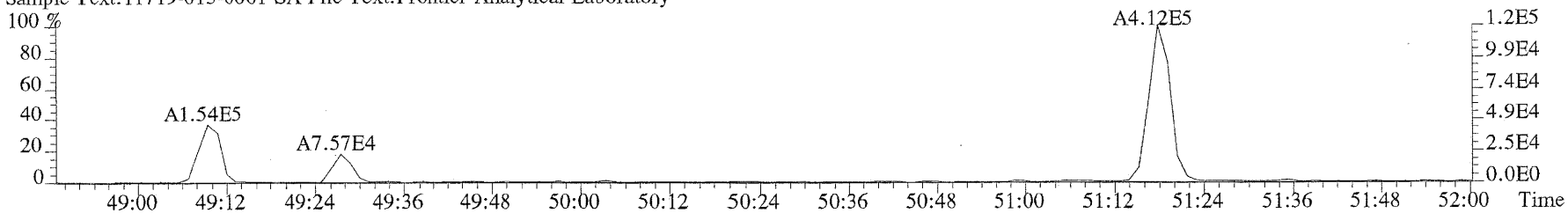
File:31JUL18Z #1-314 Acq:31-JUL-2018 19:59:02 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 19:59:02 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:11719-013-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 19:59:02 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:11719-013-0001-SA File Text:Frontier Analytical Laboratory



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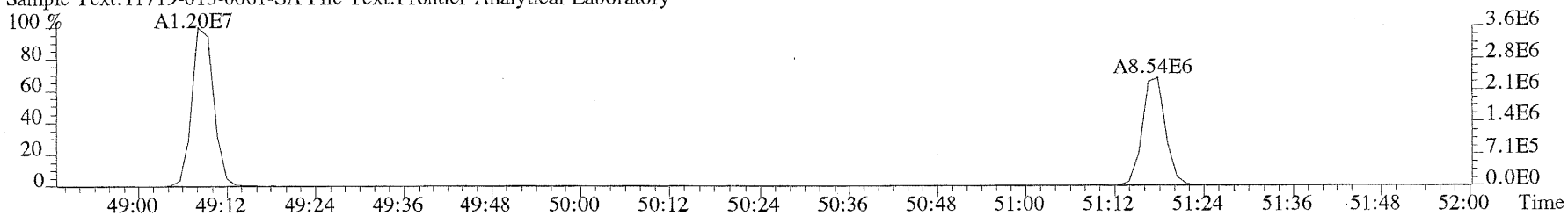
473.7648 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



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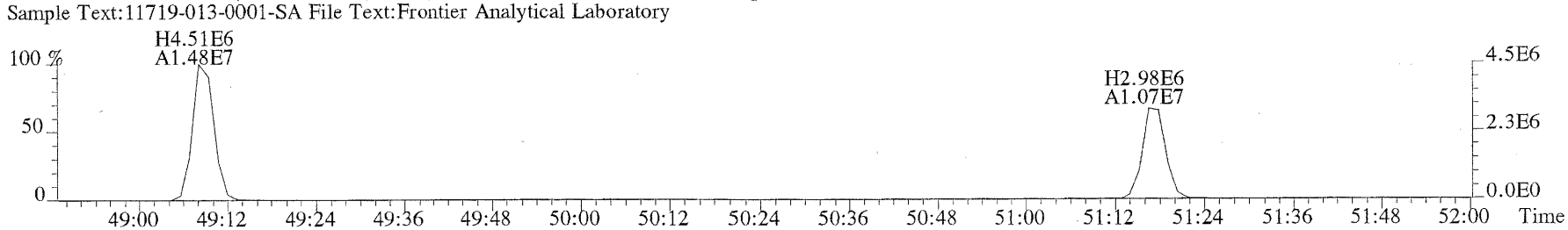
475.7619 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



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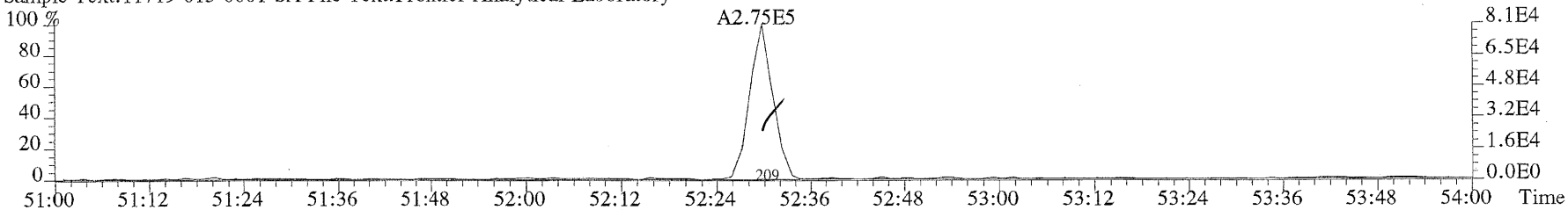
497.6826 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



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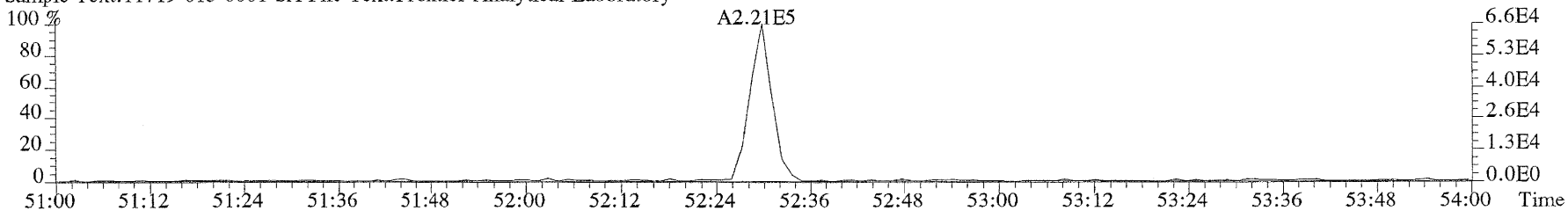
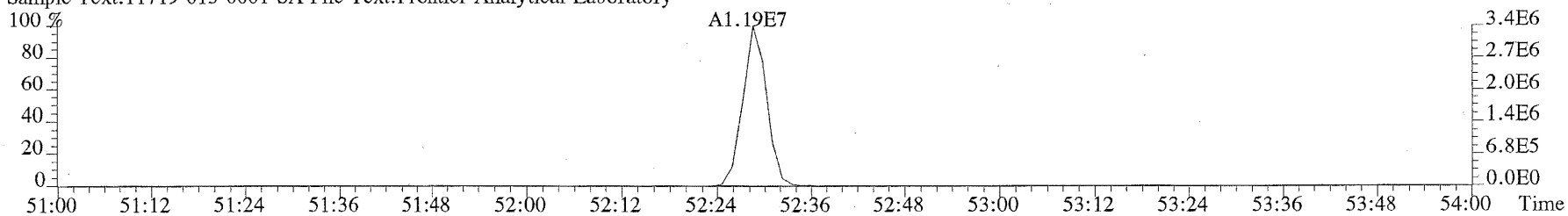
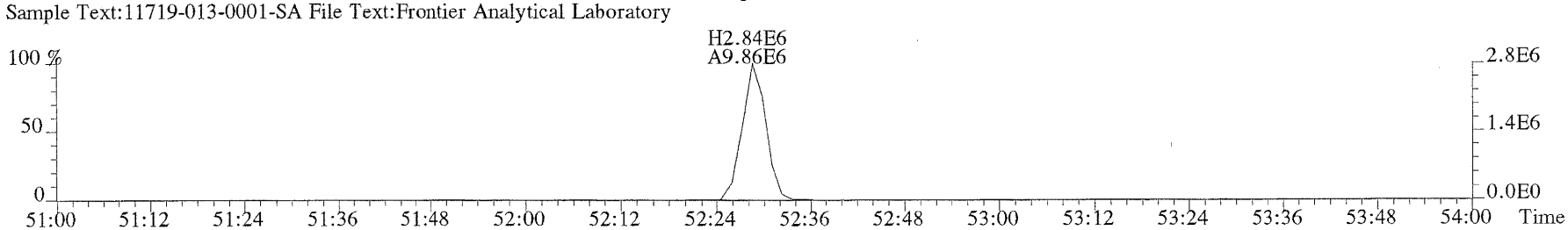
499.6797 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-013-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 19:59:02 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:11719-013-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 19:59:02 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:11719-013-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-014-0001-SA Filename: 31JUL18Z Sam:12 Acquired: 31-JUL-18 20:57:23 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SU-ENR-CB-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.020

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	3.40e+05	3.13 y	14:32	1.28	11.4		-	-	*			
13C-PCB-1	4.66e+07	3.24 y	14:30	0.83	1860					93.5	1.22e+07	3.72e+06
PCB-2	5.49e+04	2.70 y	16:44	1.15	2.11	J	-	-	*			
PCB-3	1.97e+05	2.77 y	16:58	1.27	7.12		-	-	*			
13C-PCB-3	4.35e+07	3.38 y	16:57	0.83	1730					86.6	9.94e+06	3.04e+06
PCB-4	1.83e+06	1.33 y	18:12	1.44	72.4		-	-	*			
PCB-10	1.34e+05	1.64 y	18:16	1.35	4.29		-	-	*			
13C-PCB-4	3.50e+07	1.63 y	18:11	0.68	1690					85.0	6.49e+06	4.01e+06
PCB-9	5.00e+05	1.62 y	19:54	1.44	14.9		-	-	*			
PCB-7	4.03e+05	1.39 y	19:56	1.55	11.2		-	-	*			
PCB-6	2.49e+06	1.51 y	20:31	1.44	74.5		-	-	*			
PCB-8	8.77e+06	1.49 y	20:53	1.45	261		-	-	*			
PCB-5	3.93e+05	1.41 y	20:59	1.46	11.6		-	-	*			
PCB-14	*	* n	NotFnd	1.36	*		873	2300	0.969			
PCB-11	3.00e+05	1.43 y	23:04	1.31	9.89		-	-	*			
PCB-13	4.42e+05	1.56 y	23:25	1.38	13.8		-	-	*			
PCB-12	4.61e+05	1.37 y	23:26	1.44	13.8		-	-	*			
PCB-15	4.85e+06	1.51 y	23:45	1.38	122		-	-	*			
13C-PCB-15	5.75e+07	1.65 y	23:44	1.01	1880					94.3	8.30e+06	4.92e+06
PCB-19	4.16e+05	1.10 y	22:04	1.31	34.0		-	-	*			
PCB-30	*	* n	NotFnd	1.68	*		590	604	0.713			
PCB-18	5.26e+06	1.10 y	23:39	1.25	450		-	-	*			
PCB-17	2.62e+06	1.12 y	23:49	1.37	204		-	-	*			
PCB-27	3.19e+05	1.10 y	24:19	1.68	20.2		-	-	*			
PCB-24	3.56e+05	1.10 y	24:20	1.74	21.8		-	-	*			
PCB-16	1.74e+06	1.08 y	24:49	1.49	125		-	-	*			
PCB-32	2.29e+06	1.12 y	24:50	1.50	163		-	-	*			
13C-PCB-19	1.86e+07	1.12 y	22:04	0.35	1750					87.8	2.59e+06	2.36e+06
13C-PCB-9	6.02e+07	1.66 y	19:52	-	16.1							
PCB-34	1.53e+05	1.16 y	25:35	1.40	4.85		-	-	*			
PCB-23	*	* n	NotFnd	1.50	*		750	725	0.784			
PCB-29	1.41e+05	1.19 y	25:55	1.31	4.74		-	-	*			
PCB-26	3.34e+06	1.10 y	26:07	1.25	118		-	-	*			
PCB-25	2.03e+06	1.10 y	26:17	1.60	56.2		-	-	*			
PCB-31	1.49e+07	1.11 y	26:37	1.21	544		-	-	*			
PCB-28	1.89e+07	1.12 y	26:42	1.69	496		-	-	*			
PCB-20	9.45e+06	1.10 y	27:19	1.36	308		-	-	*		Co-elute PCB 21/33	
PCB-21	9.45e+06	1.10 y	27:19	1.36	308		-	-	*		Co-elute PCB 20/33	
PCB-33	9.45e+06	1.10 y	27:19	1.36	308		-	-	*		Co-elute PCB 20/21	
PCB-22	5.82e+06	1.07 y	27:43	1.41	183		-	-	*			
PCB-36	*	* n	NotFnd	1.20	*		750	725	0.982			
PCB-39	*	* n	NotFnd	1.05	*		750	725	1.12			
PCB-38	2.25e+05	1.13 y	29:28	1.39	7.19		-	-	*			
PCB-35	3.06e+05	1.07 y	30:02	1.12	12.1		-	-	*			
PCB-37	5.55e+06	1.08 y	30:29	1.40	176		-	-	*			
13C-PCB-37	4.49e+07	1.07 y	30:27	1.54	2270					114	3.28e+06	2.97e+06

PCB-54	3.32e+04	0.74	y	25:38	1.13	2.17	J	-	-	*			
PCB-50	3.02e+04	0.70	y	26:45	0.72	3.10	J	-	-	*			
PCB-53	1.21e+06	0.77	y	27:20	0.76	117		-	-	*			
PCB-51	3.45e+05	0.75	y	27:40	0.76	33.5		-	-	*			
PCB-45	9.06e+05	0.78	y	28:04	0.63	105		-	-	*			
PCB-46	3.71e+05	0.76	y	28:32	0.65	42.4		-	-	*			
PCB-52	2.37e+07	0.78	y	28:59	0.92	1900		-	-	*	Co-elute PCB 69		
PCB-69	2.37e+07	0.78	y	28:59	0.92	1900		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	0.87	*		500	496	0.902			
PCB-43	9.40e+06	0.76	y	29:16	0.72	963		-	-	*	Co-elute PCB 49		
PCB-49	9.40e+06	0.76	y	29:16	0.72	963		-	-	*	Co-elute PCB 43		
PCB-47	2.92e+06	0.73	y	29:28	0.84	258		-	-	*			
PCB-48	2.26e+06	0.82	y	29:34	0.96	175		-	-	*	Co-elute PCB 75		
PCB-75	2.26e+06	0.82	y	29:34	0.96	175		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.01	*		500	496	0.776			
PCB-62	*	*	n	NotFnd	0.97	*		500	496	0.811			
PCB-44	1.13e+07	0.77	y	30:15	0.66	1260		-	-	*			
PCB-42	3.50e+06	0.79	y	30:31	0.85	304		-	-	*	Co-elute PCB 59		
PCB-59	3.50e+06	0.79	y	30:31	0.85	304		-	-	*	Co-elute PCB 42		
PCB-72	1.02e+07	0.77	y	31:04	0.92	823		-	-	*	Co-elute PCB 41/71/64		
PCB-41	1.02e+07	0.77	y	31:04	0.92	823		-	-	*	Co-elute PCB 72/71/64		
PCB-71	1.02e+07	0.77	y	31:04	0.92	823		-	-	*	Co-elute PCB 72/41/64		
PCB-64	1.02e+07	0.77	y	31:04	0.92	823		-	-	*	Co-elute PCB 72/41/71		
PCB-68	1.41e+05	0.79	y	31:17	1.03	10.1		-	-	*			
PCB-40	1.38e+06	0.75	y	31:27	0.59	173		-	-	*			
PCB-57	8.62e+04	0.76	y	31:47	0.97	6.58		-	-	*			
PCB-67	3.86e+05	0.80	y	32:05	0.98	29.0		-	-	*			
PCB-58	3.88e+04	0.72	y	32:12	0.90	3.20	J	-	-	*			
PCB-63	5.48e+05	0.79	y	32:21	1.02	39.7		-	-	*			
PCB-74	7.36e+06	0.78	y	32:37	1.13	482		-	-	*			
PCB-61	2.20e+07	0.76	y	32:49	1.07	1510		-	-	*	Co-elute PCB 70		
PCB-70	2.20e+07	0.76	y	32:49	1.07	1510		-	-	*	Co-elute PCB 61		
PCB-76	1.46e+07	0.76	y	33:01	1.00	1080		-	-	*	Co-elute PCB 66		
PCB-66	1.46e+07	0.76	y	33:01	1.00	1080		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.10	*		500	496	0.714			
PCB-55	4.86e+05	0.73	y	33:28	1.07	33.6		-	-	*			
13C-PCB-54	2.70e+07	0.81	y	25:35	1.28	1630					81.9	2.76e+06	3.57e+06
PCB-104	*	*	n	NotFnd	1.27	*		396	276	0.929			
PCB-96	2.11e+05	1.72	y	31:18	1.13	22.3		-	-	*			
PCB-103	1.55e+05	1.65	y	31:47	0.97	19.2		-	-	*			
PCB-100	7.06e+04	1.54	y	32:07	0.98	8.67		-	-	*			
PCB-94	8.57e+04	1.74	y	32:32	0.87	11.8		-	-	*			
PCB-98	*	*	n	NotFnd	1.02	*		396	276	1.16	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.02	*		396	276	1.16	Co-elute PCB 98		
PCB-95	1.62e+07	1.63	y	33:04	0.88	2210		-	-	*			
PCB-93	*	*	n	NotFnd	0.81	*		396	276	1.45			
PCB-88	2.66e+06	1.65	y	33:27	0.91	352		-	-	*	Co-elute PCB 91		
PCB-91	2.66e+06	1.65	y	33:27	0.91	352		-	-	*	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.12	*		396	276	1.06			
13C-PCB-104	1.66e+07	1.62	y	30:03	0.76	1690					84.9	1.76e+06	1.08e+06
13C-PCB-28	4.89e+07	1.06	y	26:42	1.88	2020					101	5.33e+06	4.85e+06
13C-PCB-52	2.57e+07	0.77	y	28:58	-	18.9							

PCB-56	1.26e+07	0.83	y	33:59	1.26	533		-	-	*			Co-elute PCB 60
PCB-60	1.26e+07	0.83	y	33:59	1.26	533		-	-	*			Co-elute PCB 56
PCB-79	7.99e+05	0.80	y	35:00	1.19	35.8		-	-	*			
PCB-78	*	*	n	NotFnd	1.13	*		447	527	0.620			
PCB-81	1.43e+06	0.82	y	36:11	1.25	61.1		-	-	*			
13C-PCB-81	3.72e+07	0.79	y	36:10	1.79	1890					94.8	3.08e+06	4.01e+06
PCB-77	2.03e+06	0.85	y	36:46	1.17	91.7		-	-	*			
13C-PCB-77	3.77e+07	0.78	y	36:44	1.72	1980					99.6	3.01e+06	3.78e+06
PCB-155	*	*	n	NotFnd	1.21	*		380	272	0.744			
PCB-150	3.92e+04	1.40	y	35:24	1.07	4.60		-	-	*			
PCB-152	3.56e+04	1.39	y	35:52	1.04	4.32		-	-	*			
PCB-145	1.28e+04	1.24	y	36:17	1.09	1.48	J	-	-	*			
PCB-136	2.97e+06	1.30	y	36:35	0.97	384		-	-	*			
PCB-148	*	*	n	NotFnd	0.86	*		380	272	1.05			
PCB-154	2.42e+05	1.40	y	37:10	1.02	30.0		-	-	*			
13C-PCB-155	1.58e+07	1.33	y	34:12	0.83	1720					86.4	2.01e+06	1.58e+06
13C-PCB-111	2.50e+07	1.60	y	36:18	1.23	1840					92.5	3.14e+06	1.92e+06
13C-PCB-101	2.20e+07	1.60	y	34:39	-	16.7							
PCB-84	1.20e+07	1.59	y	34:18	0.58	1160		-	-	*			Co-elute PCB 92
PCB-92	1.20e+07	1.59	y	34:18	0.58	1160		-	-	*			Co-elute PCB 84
PCB-89	3.34e+05	1.66	y	34:28	0.56	33.4		-	-	*			
PCB-90	3.28e+07	1.60	y	34:40	0.66	2770		-	-	*			Co-elute PCB 101
PCB-101	3.28e+07	1.60	y	34:40	0.66	2770		-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.69	*		850	770	1.72			
PCB-99	1.41e+07	1.59	y	34:59	0.75	1050		-	-	*			
PCB-119	6.38e+05	1.55	y	35:25	0.79	45.1		-	-	*			
PCB-83	1.46e+06	1.50	y	35:34	0.67	121		-	-	*			Co-elute PCB 112
PCB-112	1.46e+06	1.50	y	35:34	0.67	121		-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.80	*		850	770	1.48			
PCB-97	9.08e+06	1.54	y	35:54	0.72	697		-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*		850	770	1.78			
PCB-125	1.43e+07	1.57	y	36:11	0.73	1090		-	-	*			Co-elute PCB 87/117
PCB-87	1.43e+07	1.57	y	36:11	0.73	1090		-	-	*			Co-elute PCB 125/117
PCB-117	1.43e+07	1.57	y	36:11	0.73	1090		-	-	*			Co-elute PCB 125/87
PCB-111	9.63e+05	1.58	y	36:20	0.91	59.0		-	-	*			Co-elute PCB 115
PCB-115	9.63e+05	1.58	y	36:20	0.91	59.0		-	-	*			Co-elute PCB 111
PCB-85	5.19e+06	1.57	y	36:26	0.69	415		-	-	*			Co-elute PCB 116
PCB-116	5.19e+06	1.57	y	36:26	0.69	415		-	-	*			Co-elute PCB 85
PCB-120	8.50e+04	1.63	y	36:36	0.86	5.50		-	-	*			
PCB-110	4.19e+07	1.57	y	36:48	0.85	2730		-	-	*			
PCB-82	3.14e+06	1.52	y	37:23	0.51	342		-	-	*			
PCB-124	2.51e+06	1.61	y	38:03	1.24	113		-	-	*			
PCB-108	3.76e+06	1.59	y	38:13	1.24	169		-	-	*			Co-elute PCB 107
PCB-107	3.76e+06	1.59	y	38:13	1.24	169		-	-	*			Co-elute PCB 108
PCB-123	1.02e+06	1.64	y	38:21	1.50	39.4		-	-	*			
13C-PCB-123	3.44e+07	1.62	y	38:21	1.55	1790					90.0	4.33e+06	2.65e+06
PCB-118	5.41e+07	1.62	y	38:33	1.11	2530		-	-	*			Co-elute PCB 106
PCB-106	5.41e+07	1.62	y	38:33	1.11	2530		-	-	*			Co-elute PCB 118
13C-PCB-118	3.83e+07	1.65	y	38:31	1.75	1770					89.0	4.60e+06	2.79e+06
PCB-114	1.93e+06	1.68	y	39:09	1.30	81.8		-	-	*			
13C-PCB-114	3.61e+07	1.60	y	39:09	1.58	1850					92.8	4.06e+06	2.44e+06
PCB-122	7.88e+05	1.51	y	39:15	1.17	37.4		-	-	*			
PCB-105	2.30e+07	1.61	y	39:58	1.24	1070		-	-	*			
13C-PCB-105	3.46e+07	1.59	y	39:57	1.49	1880					94.6	4.07e+06	2.52e+06

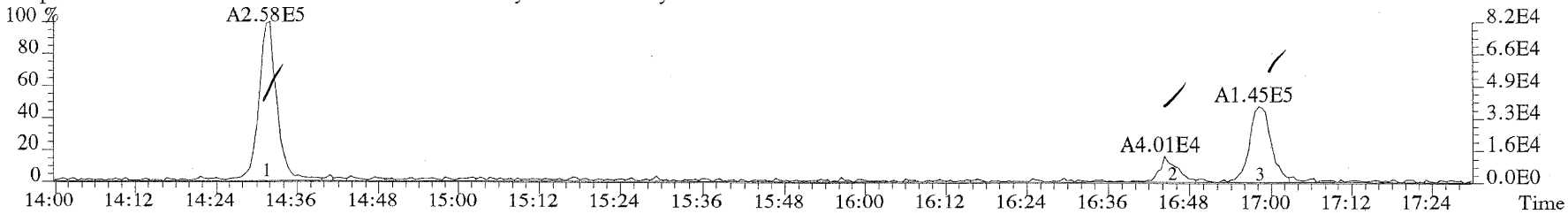
PCB-127	*	*	n	NotFnd	1.09	*	850	610	0.976				
PCB-126	2.29e+05	1.46	y	42:05	1.28	10.2	-	-	*				
13C-PCB-126	3.49e+07	1.55	y	42:05	1.40	2020				101	3.52e+06	2.12e+06	
PCB-151	4.08e+06	1.26	y	37:47	0.78	380	-	-	*				
PCB-135	3.06e+06	1.30	y	38:00	0.91	244	-	-	*				
PCB-144	1.15e+06	1.20	y	38:05	0.91	91.7	-	-	*				
PCB-147	6.52e+05	1.28	y	38:13	0.99	48.1	-	-	*				
PCB-139	2.06e+07	1.29	y	38:26	0.98	1530	-	-	*				Co-elute PCB 149
PCB-149	2.06e+07	1.29	y	38:26	0.98	1530	-	-	*				Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.99	*	483	466	0.931				
PCB-143	1.74e+06	1.23	y	39:04	0.91	138	-	-	*				Co-elute PCB 134
PCB-134	1.74e+06	1.23	y	39:04	0.91	138	-	-	*				Co-elute PCB 143
PCB-131	8.80e+05	1.28	y	39:20	0.91	69.8	-	-	*				Co-elute PCB 133
PCB-133	8.80e+05	1.28	y	39:20	0.91	69.8	-	-	*				Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.83	*	483	466	1.10				
PCB-165	4.07e+06	1.26	y	39:42	1.09	272	-	-	*				Co-elute PCB 146
PCB-146	4.07e+06	1.26	y	39:42	1.09	272	-	-	*				Co-elute PCB 165
PCB-161	9.73e+06	1.41	y	39:57	1.00	705	-	-	*				Co-elute PCB 132
PCB-132	9.73e+06	1.41	y	39:57	1.00	705	-	-	*				Co-elute PCB 161
PCB-153	2.62e+07	1.19	y	40:05	1.09	1740	-	-	*				
PCB-168	*	*	n	NotFnd	1.19	*	483	466	0.775				
PCB-141	5.13e+06	1.25	y	40:48	0.92	405	-	-	*				
PCB-137	1.99e+06	1.24	y	41:09	0.82	177	-	-	*				
PCB-130	1.86e+06	1.22	y	41:14	0.89	152	-	-	*				
PCB-138	3.54e+07	1.29	y	41:35	1.20	2150	-	-	*				Co-elute PCB 163/164
PCB-163	3.54e+07	1.29	y	41:35	1.20	2150	-	-	*				Co-elute PCB 138/164
PCB-164	3.54e+07	1.29	y	41:35	1.20	2150	-	-	*				Co-elute PCB 138/163
PCB-158	5.24e+06	1.27	y	41:49	1.21	313	-	-	*				Co-elute PCB 160
PCB-160	5.24e+06	1.27	y	41:49	1.21	313	-	-	*				Co-elute PCB 158
PCB-129	1.83e+06	1.31	y	42:03	0.78	169	-	-	*				
PCB-166	2.19e+05	1.31	y	42:31	1.14	14.0	-	-	*				
PCB-159	2.06e+05	1.34	y	42:51	1.20	12.5	-	-	*				
PCB-128	6.16e+06	1.27	y	43:04	1.02	440	-	-	*				Co-elute PCB 162
PCB-162	6.16e+06	1.27	y	43:04	1.02	440	-	-	*				Co-elute PCB 128
PCB-167	1.67e+06	1.25	y	43:27	1.08	117	-	-	*				
13C-PCB-167	2.63e+07	1.30	y	43:27	1.16	1830				91.9	2.71e+06	2.07e+06	
PCB-156	4.97e+06	1.28	y	44:41	1.13	339	-	-	*				
13C-PCB-156	2.59e+07	1.28	y	44:40	1.10	1900				95.6	2.86e+06	2.19e+06	
PCB-157	1.24e+06	1.20	y	44:56	1.21	74.7	-	-	*				
13C-PCB-157	2.75e+07	1.31	y	44:55	1.13	1970				99.1	2.70e+06	2.07e+06	
PCB-169	*	*	n	NotFnd	1.13	*	483	466	0.686				
13C-PCB-169	3.00e+07	1.29	y	46:48	1.06	2280				115	3.44e+06	2.65e+06	

FAL ID: 11719-014-0001-SA Filename: 31JUL18Z Sam:12 Acquired: 31-JUL-18 20:57:23 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SU-ENR-CB-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.020

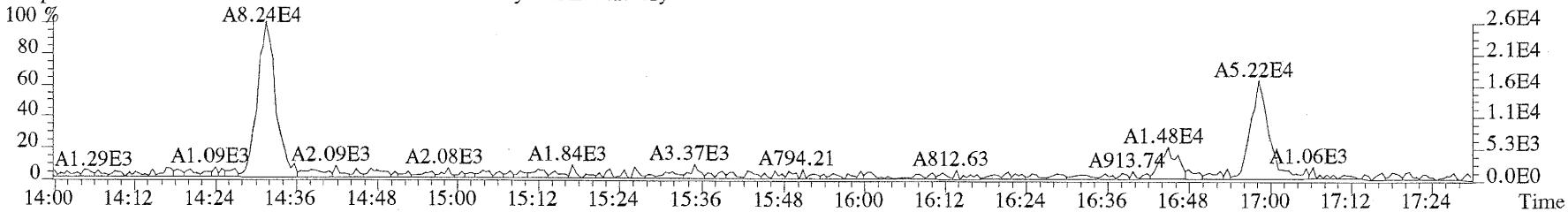
PCB-188	*	*	n	NotFnd	1.18	*	492	456	1.04			
13C-PCB-188	1.82e+07	1.07	y	39:42	0.83	1760				88.4	2.01e+06	1.85e+06
PCB-184	*	*	n	NotFnd	1.27	*	492	456	0.837			
PCB-179	1.67e+06	1.09	y	40:53	1.16	152	-	-	*			
PCB-176	5.28e+05	1.10	y	41:19	1.13	49.3	-	-	*			
PCB-186	*	*	n	NotFnd	1.20	*	492	456	0.892			
PCB-178	5.73e+05	1.11	y	42:21	0.82	74.4	-	-	*			
PCB-175	1.62e+05	1.12	y	42:41	0.85	20.2	-	-	*			
PCB-187	3.69e+06	1.09	y	42:49	0.97	402	-	-	*		Co-elute PCB 182	
PCB-182	3.69e+06	1.09	y	42:49	0.97	402	-	-	*		Co-elute PCB 187	
PCB-183	2.07e+06	1.02	y	43:09	0.92	238	-	-	*			
PCB-185	3.56e+05	1.16	y	43:47	0.87	43.2	-	-	*			
PCB-174	3.11e+06	1.06	y	44:07	0.88	373	-	-	*			
PCB-181	*	*	n	NotFnd	0.86	*	492	456	1.23			
PCB-177	1.83e+06	1.14	y	44:23	0.78	249	-	-	*			
PCB-171	1.00e+06	1.06	y	44:40	0.84	127	-	-	*			
PCB-173	9.01e+04	1.15	y	45:04	0.75	12.8	-	-	*			
PCB-172	5.30e+05	1.03	y	45:27	0.79	71.3	-	-	*			
PCB-192	*	*	n	NotFnd	1.11	*	492	456	0.960			
PCB-180	7.35e+06	1.06	y	45:49	1.07	725	-	-	*			
PCB-193	5.59e+05	0.99	y	45:59	1.12	52.7	-	-	*			
PCB-191	1.98e+05	1.05	y	46:12	1.06	19.8	-	-	*			
PCB-170	3.57e+06	1.08	y	47:06	0.78	483	-	-	*			
PCB-190	1.05e+06	1.04	y	47:16	1.05	106	-	-	*			
PCB-189	2.00e+05	0.91	y	48:29	1.20	17.0	-	-	*			
13C-PCB-189	1.94e+07	1.06	y	48:27	0.72	2170				109	2.63e+06	2.50e+06
PCB-202	2.19e+05	0.99	y	44:50	1.07	38.5	-	-	*			
PCB-201	1.60e+05	0.94	y	45:16	0.97	30.8	-	-	*			
PCB-204	*	*	n	NotFnd	1.00	*	216	272	1.03			
PCB-197	4.59e+04	0.88	y	45:41	1.07	8.04	-	-	*			
PCB-200	1.41e+05	0.82	y	46:25	1.00	26.5	-	-	*			
PCB-198	5.92e+04	0.88	y	47:37	0.77	14.4	-	-	*			
PCB-199	8.43e+05	0.90	y	47:42	0.74	215	-	-	*			
PCB-203	1.13e+06	0.89	y	47:57	0.85	250	-	-	*		Co-elute PCB 196	
PCB-196	1.13e+06	0.89	y	47:57	0.85	250	-	-	*		Co-elute PCB 203	
13C-PCB-202	1.06e+07	0.97	y	44:48	0.48	1790				89.8	1.15e+06	1.20e+06
13C-PCB-178	1.48e+07	1.10	y	42:20	0.61	1960				98.3	1.77e+06	1.62e+06
13C-PCB-138	2.46e+07	1.30	y	41:34	-	17.7						
PCB-195	9.02e+05	0.97	y	49:03	0.90	62.3	-	-	*			
PCB-194	2.27e+06	0.93	y	49:52	0.92	153	-	-	*			
PCB-205	1.48e+05	0.92	y	50:07	1.19	7.72	-	-	*			
13C-PCB-205	3.21e+07	0.92	y	50:06	1.25	1790				89.9	4.95e+06	5.42e+06
PCB-208	2.32e+05	1.37	y	49:09	0.99	17.0	-	-	*			
13C-PCB-208	2.73e+07	0.81	y	49:08	1.27	1500				75.2	3.54e+06	4.41e+06
PCB-207	1.21e+05	1.39	y	49:27	1.01	9.81	-	-	*			
PCB-206	7.17e+05	1.33	y	51:18	0.96	69.1	-	-	*			
13C-PCB-206	2.14e+07	0.80	y	51:18	0.93	1600				80.1	2.66e+06	3.27e+06
PCB-209	3.24e+05	1.15	y	52:28	1.13	25.0	-	-	*			
13C-PCB-209	2.30e+07	1.21	y	52:28	1.04	1540				77.4	3.66e+06	3.06e+06
13C-PCB-194	2.86e+07	0.91	y	49:51	-	21.2						

Analyst: _____ Date: 8/30/18

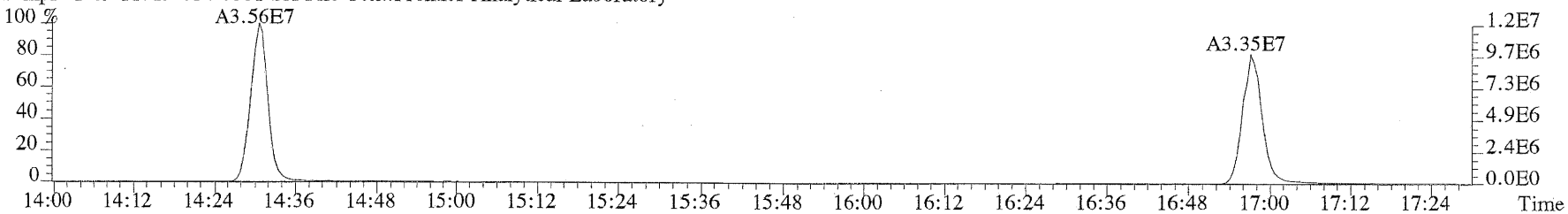
File:31JUL18Z #1-784 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



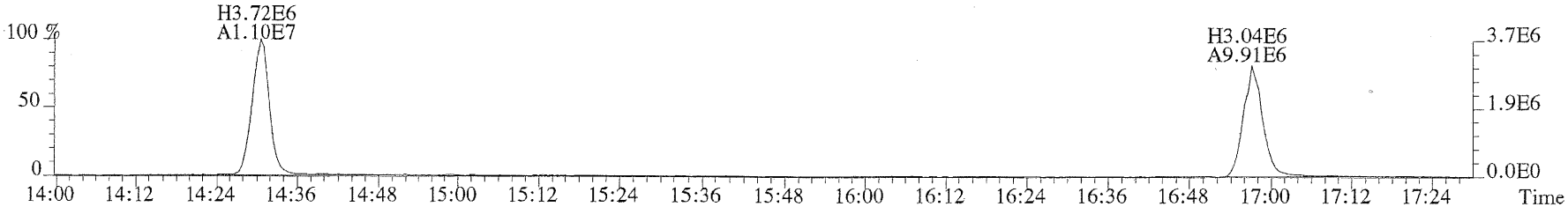
File:31JUL18Z #1-784 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



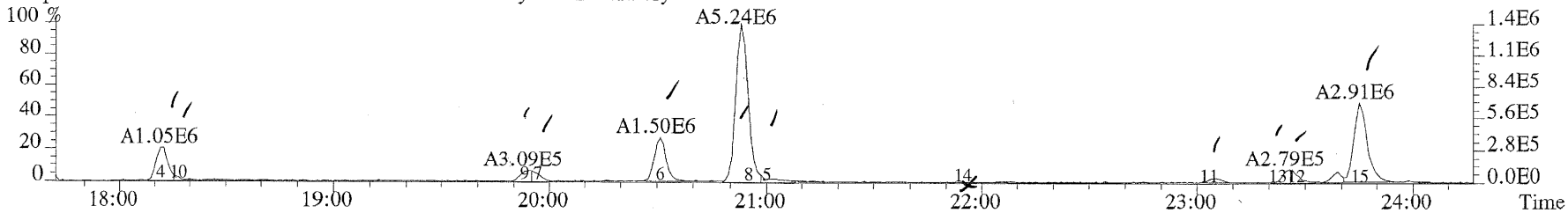
File:31JUL18Z #1-784 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



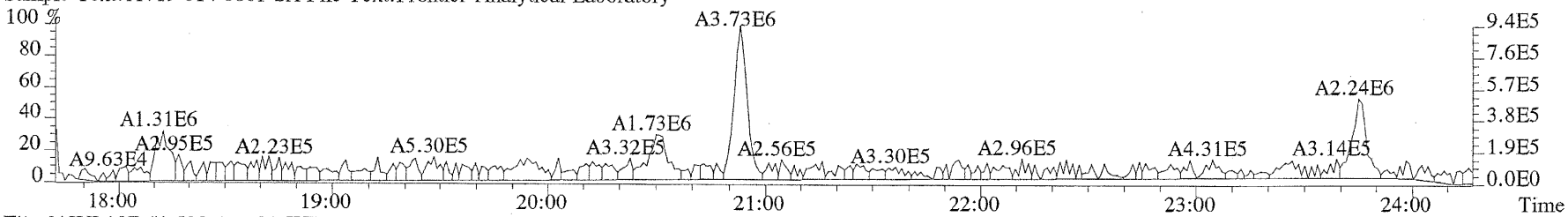
File:31JUL18Z #1-784 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:12 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



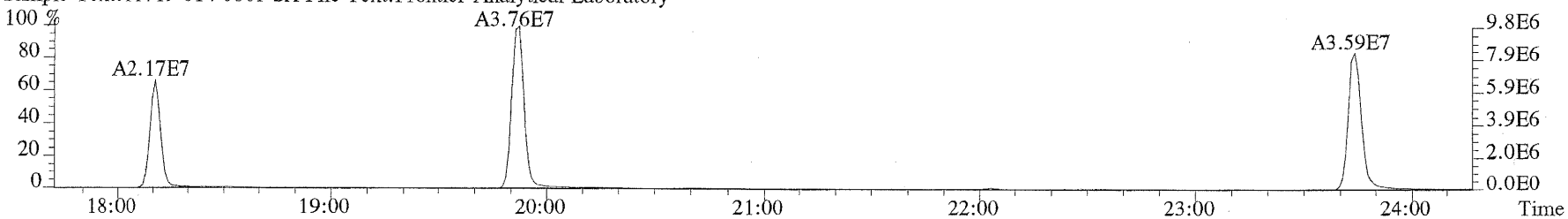
File:31JUL18Z #1-520 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



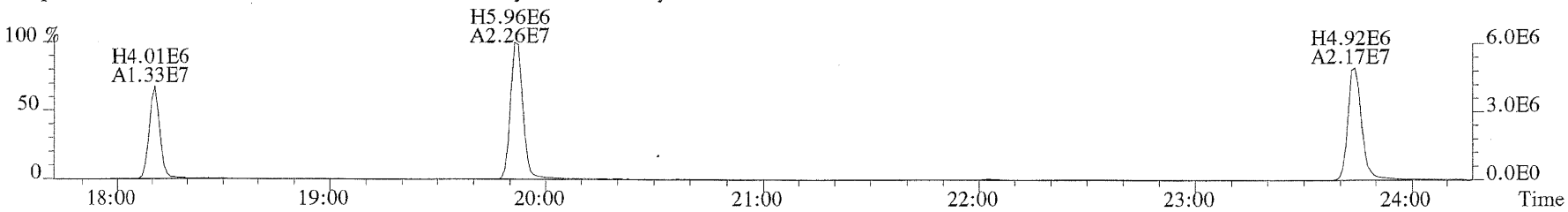
File:31JUL18Z #1-520 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



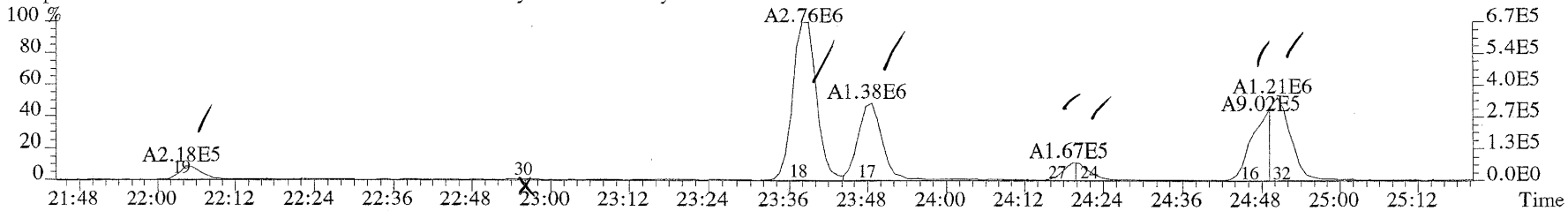
File:31JUL18Z #1-520 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



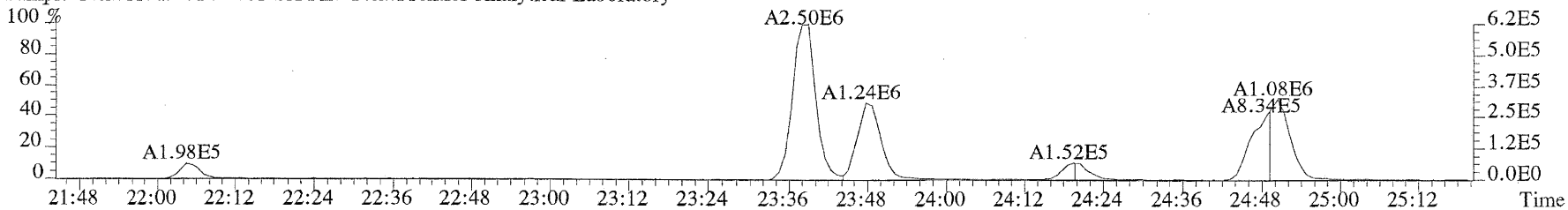
File:31JUL18Z #1-520 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



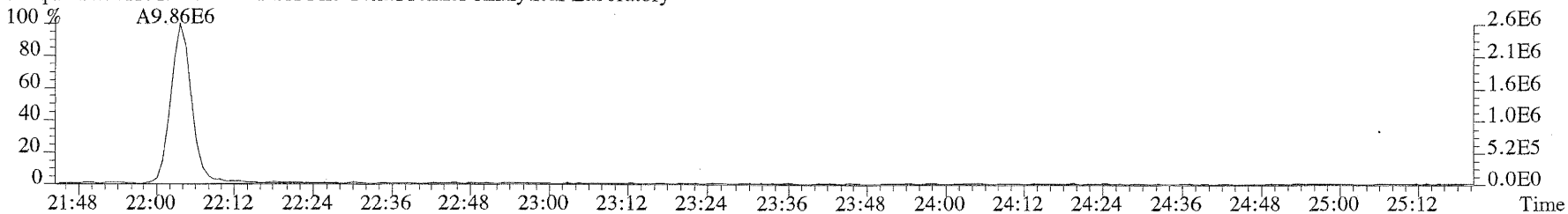
File:31JUL18Z #1-520 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



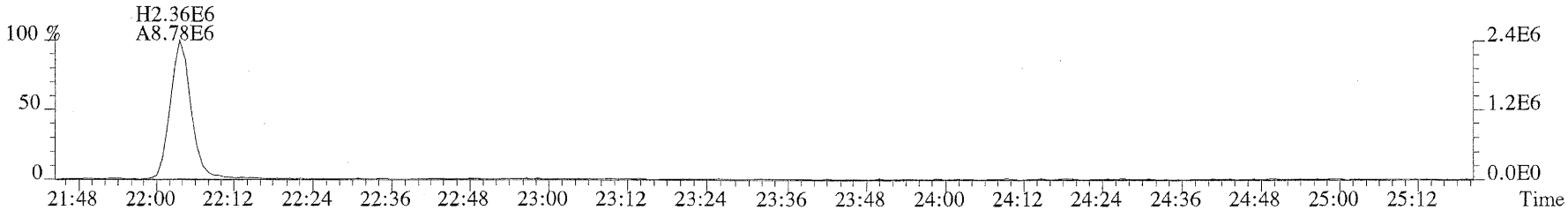
File:31JUL18Z #1-520 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



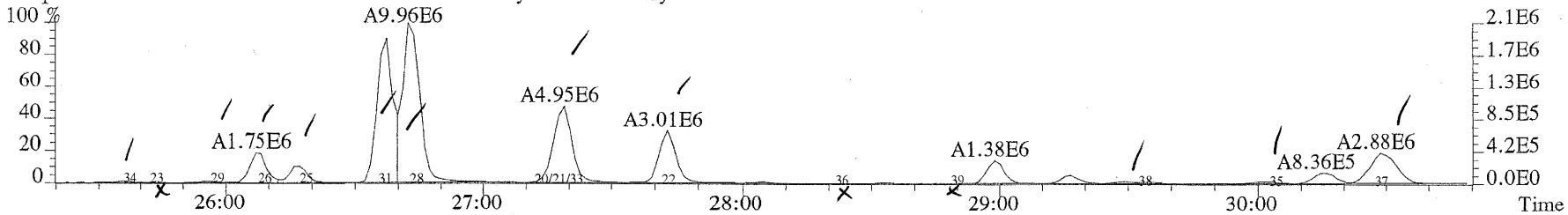
File:31JUL18Z #1-520 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



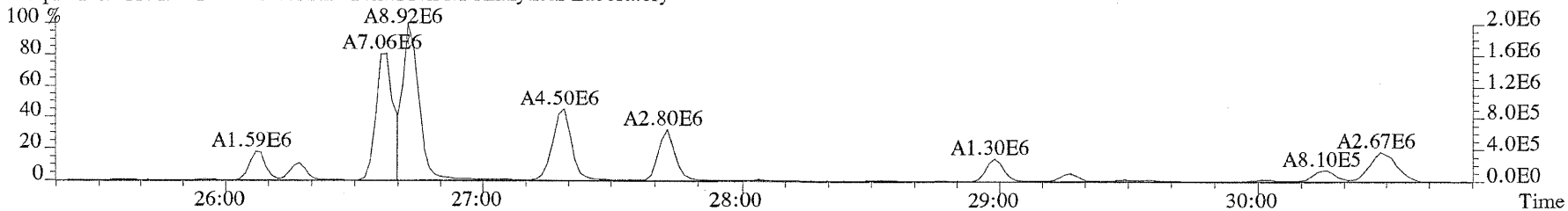
File:31JUL18Z #1-520 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:12 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 20:57:23 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:11719-014-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-401 Acq:31-JUL-2018 20:57:23 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:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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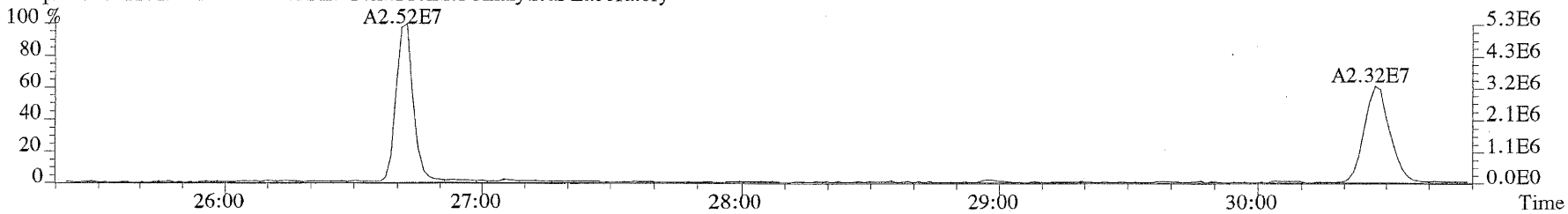
268.0016 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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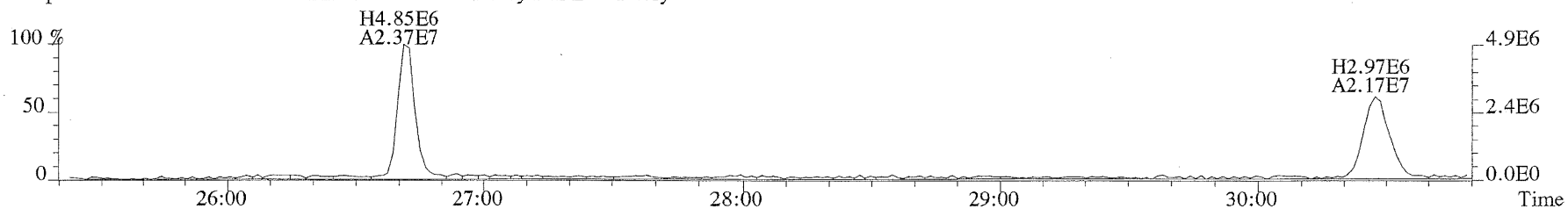
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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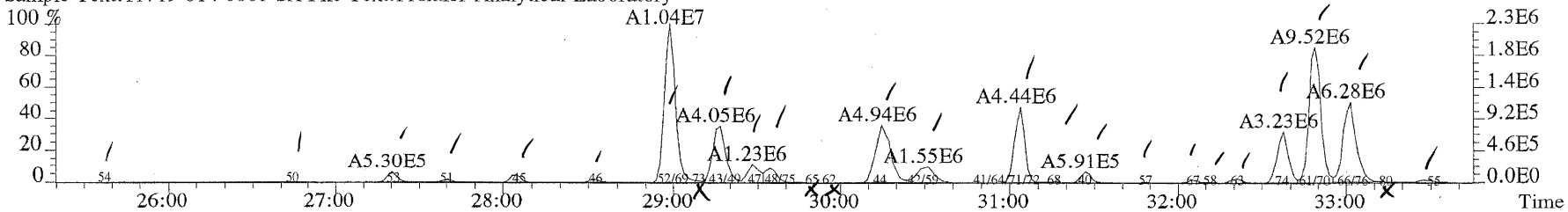
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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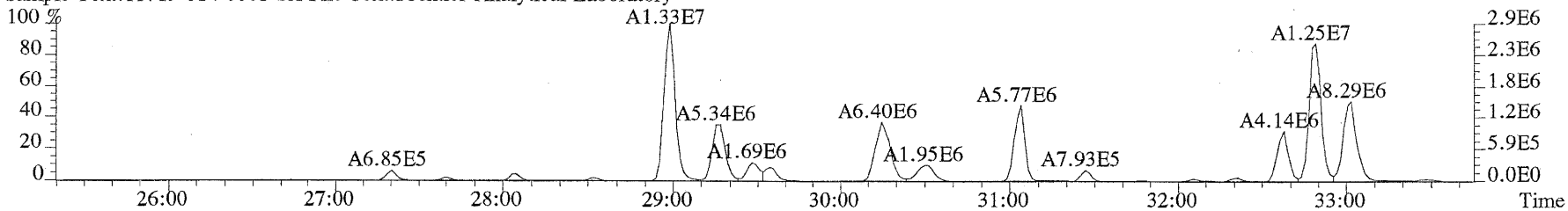
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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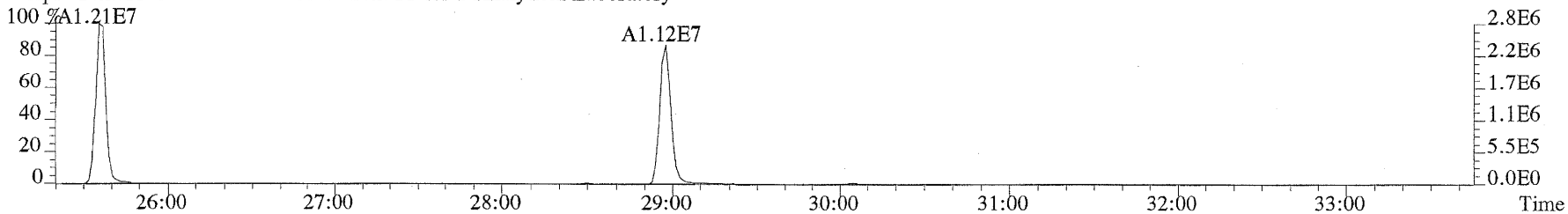
301.9626 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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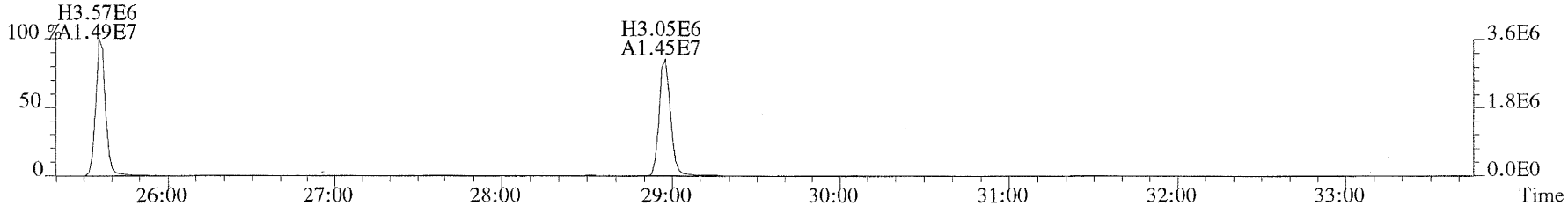
303.9597 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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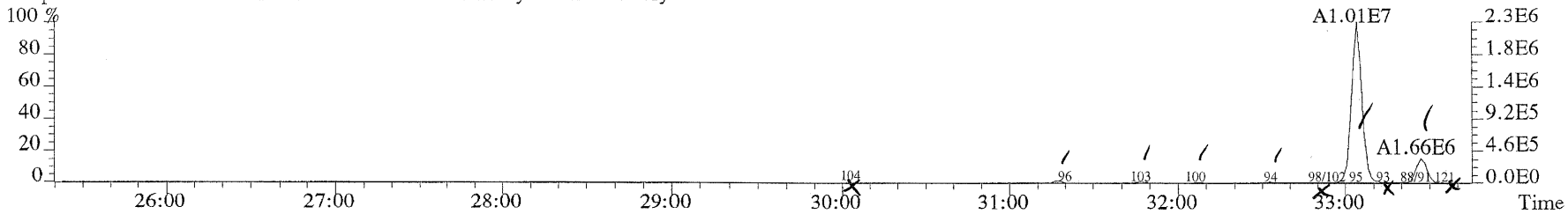
325.8804 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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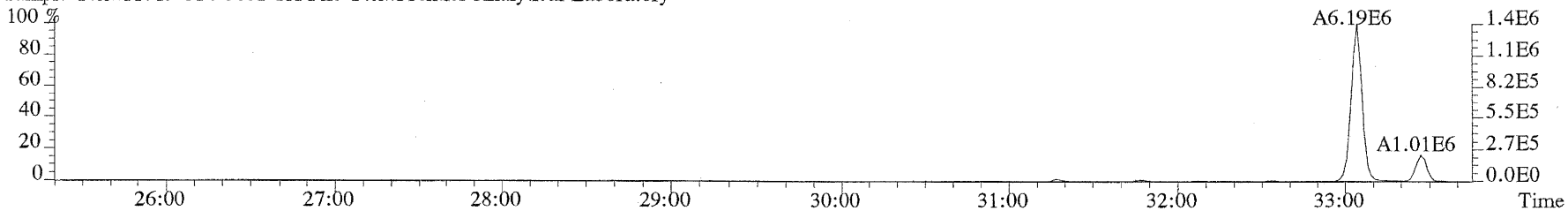
327.8775 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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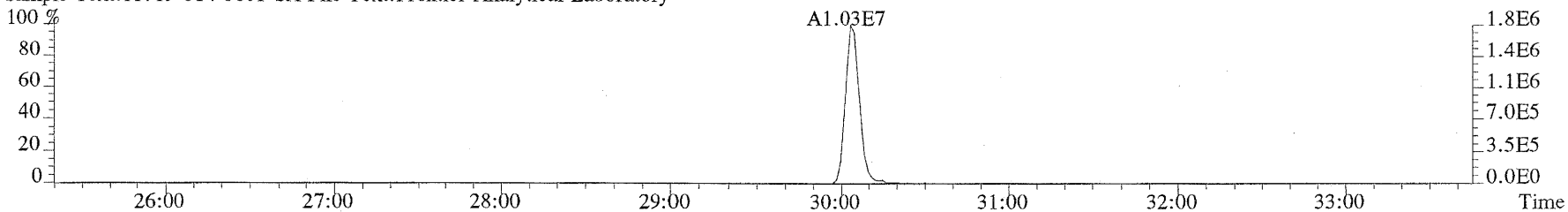
337.9207 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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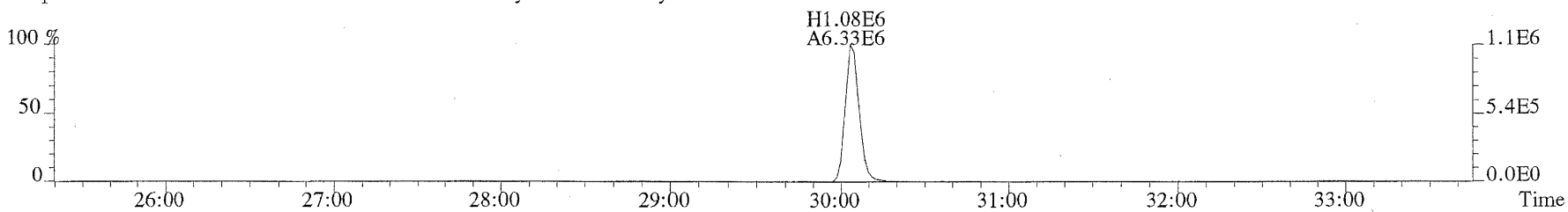
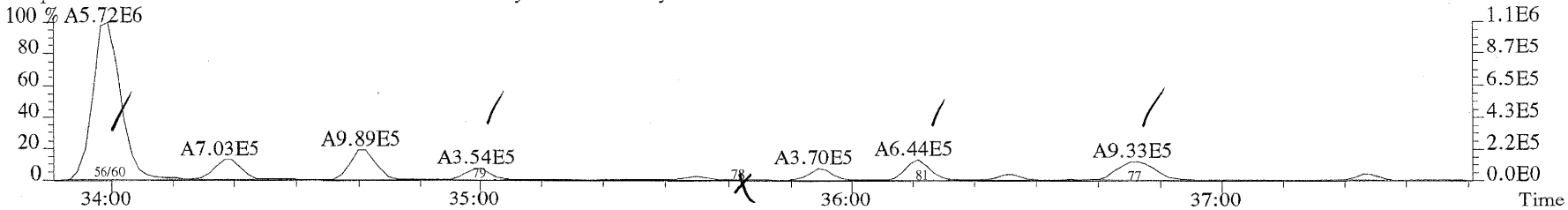
339.9178 S:12 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-183 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
289.9224 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:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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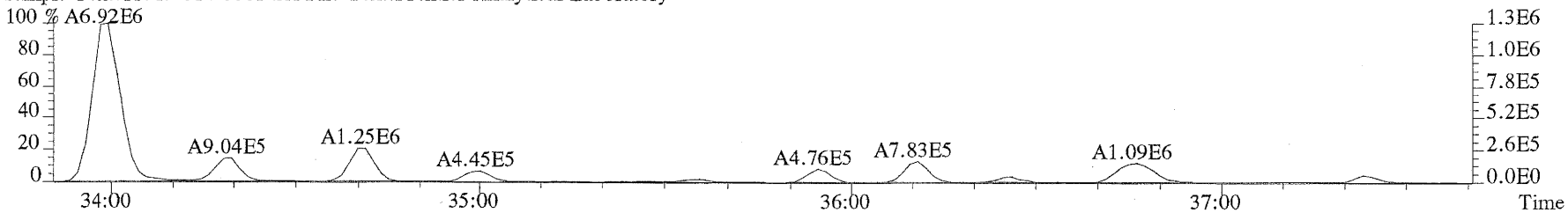
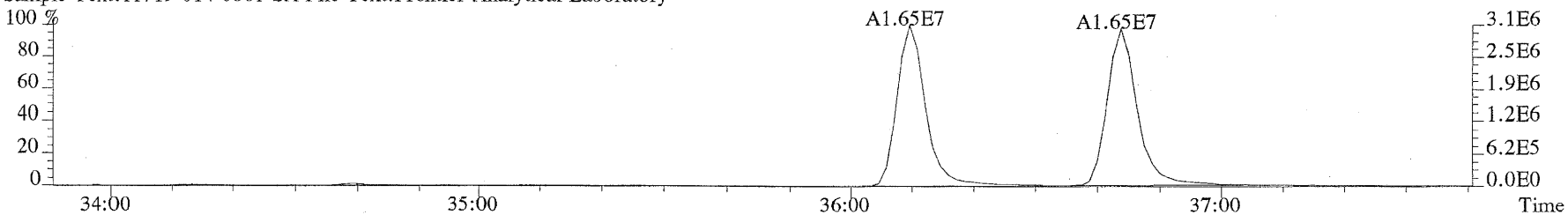
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-183 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
301.9626 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:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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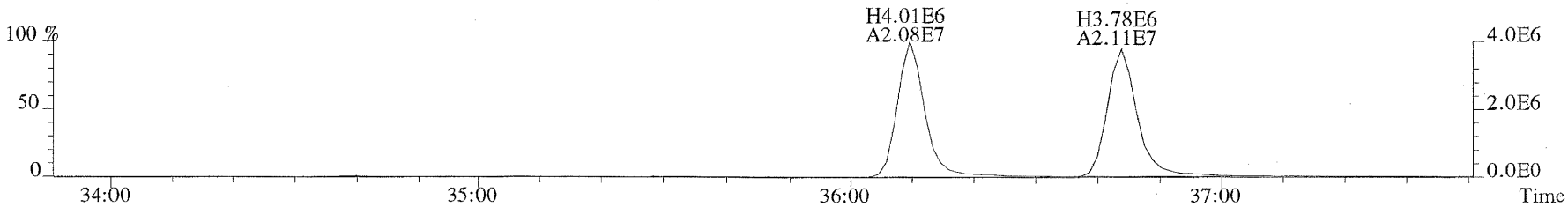
303.9597 S:12 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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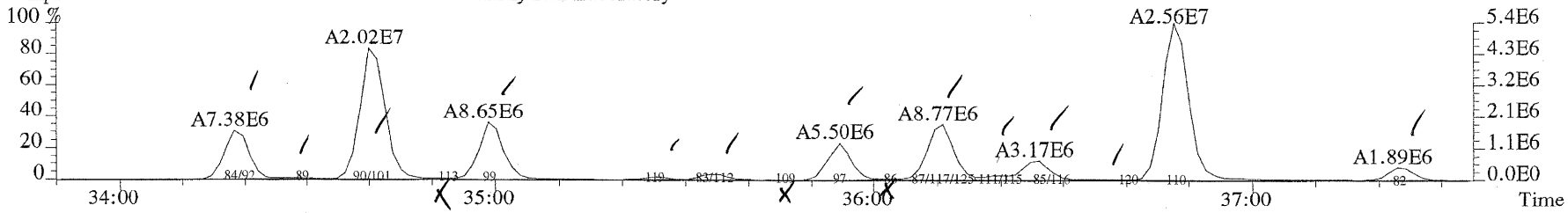
325.8804 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-183 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:12 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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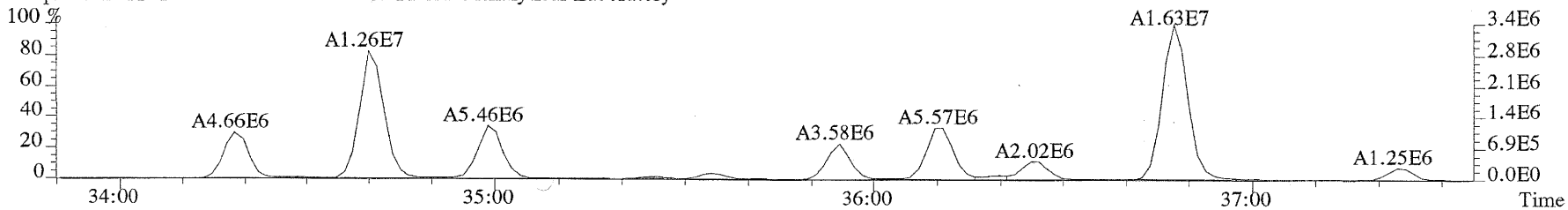

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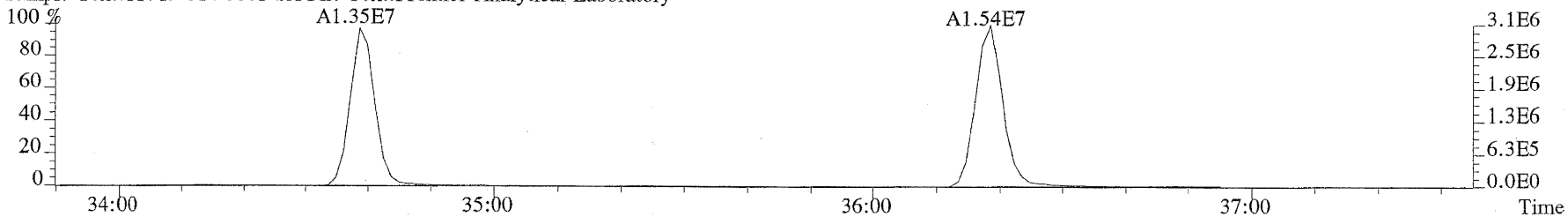
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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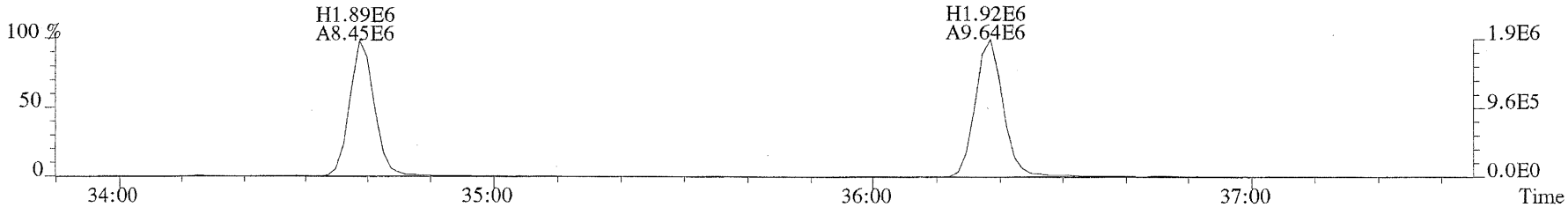
339.9178 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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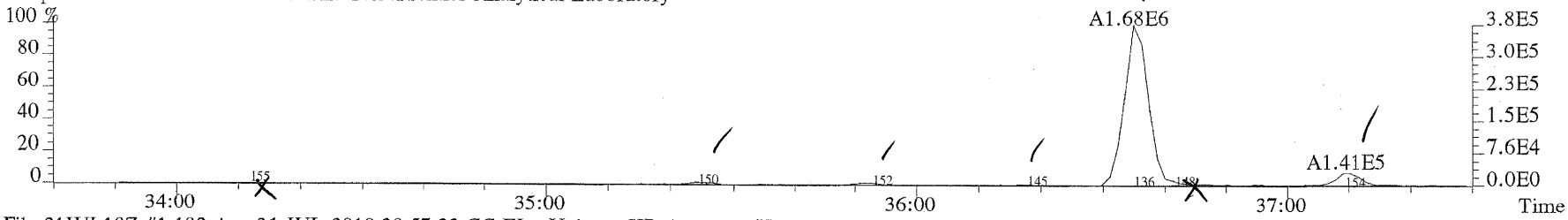
359.8415 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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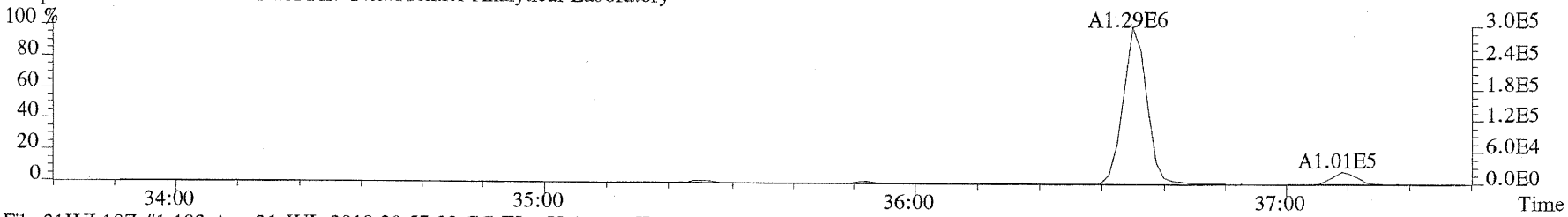
361.8385 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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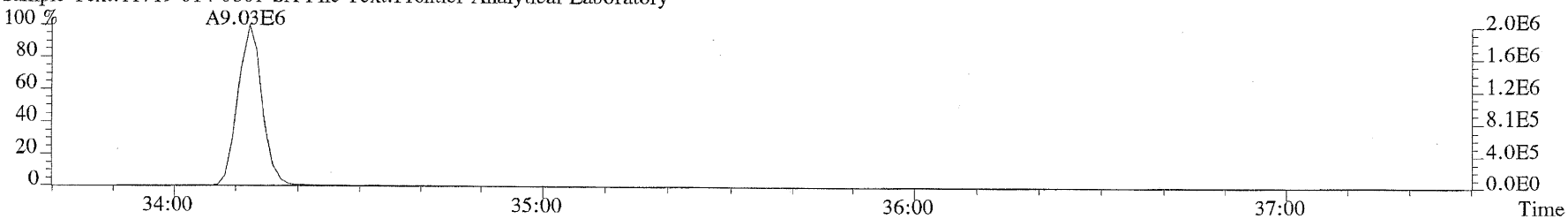
371.8817 S:12 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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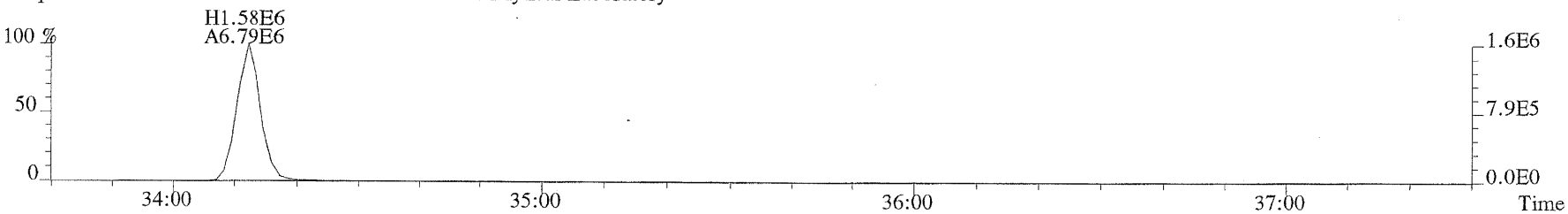
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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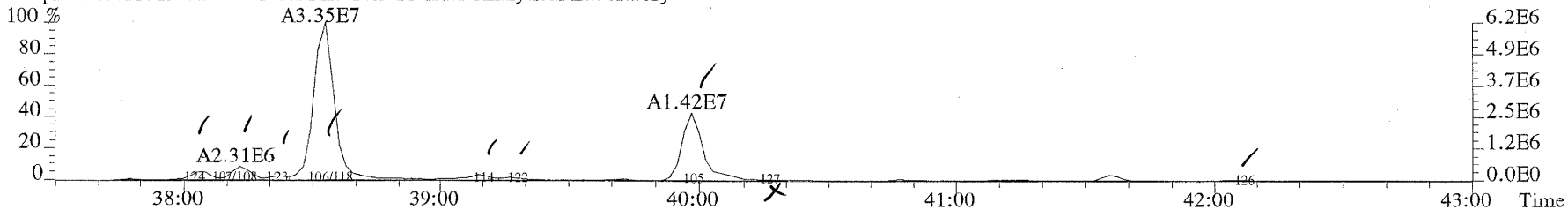
325.8804 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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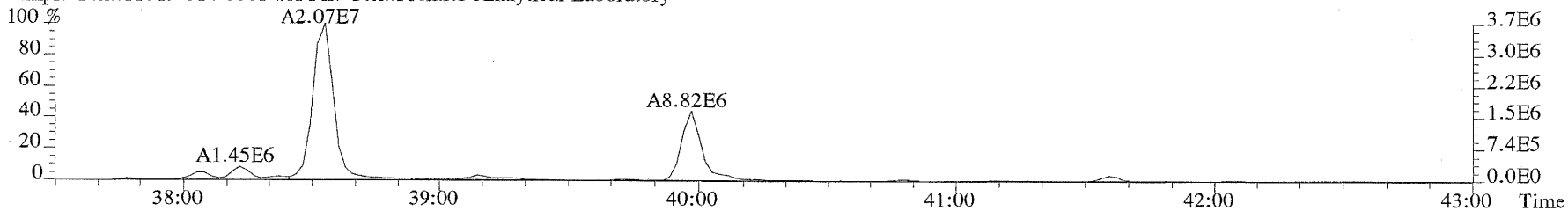
327.8775 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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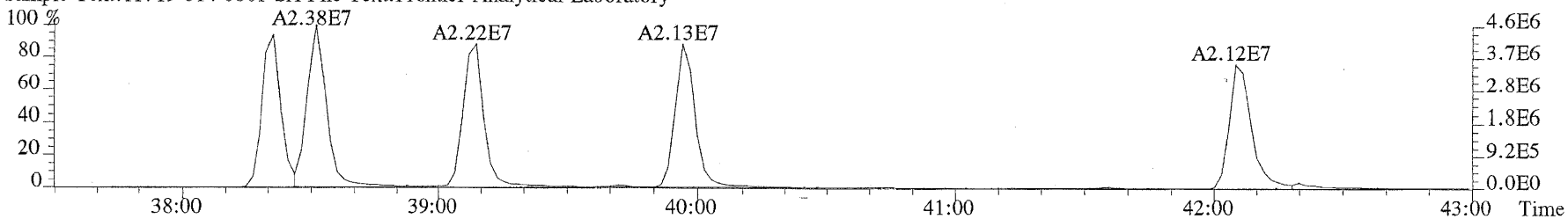
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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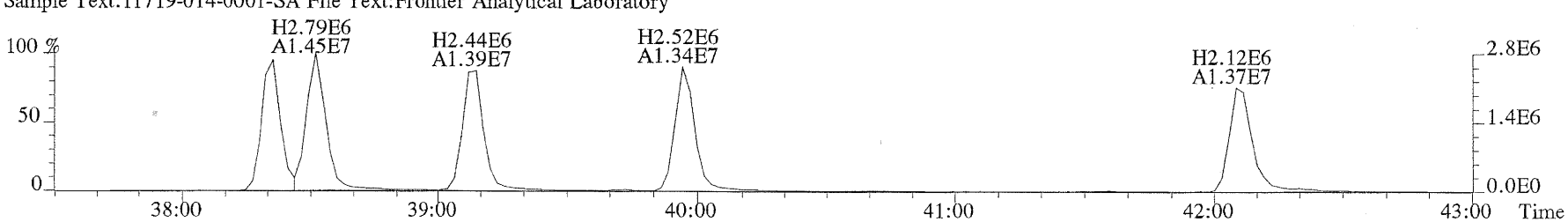
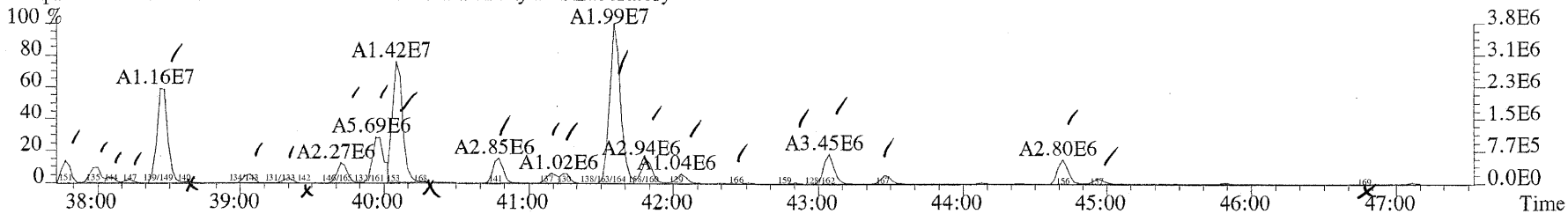
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-404 Acq:31-JUL-2018 20:57:23 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:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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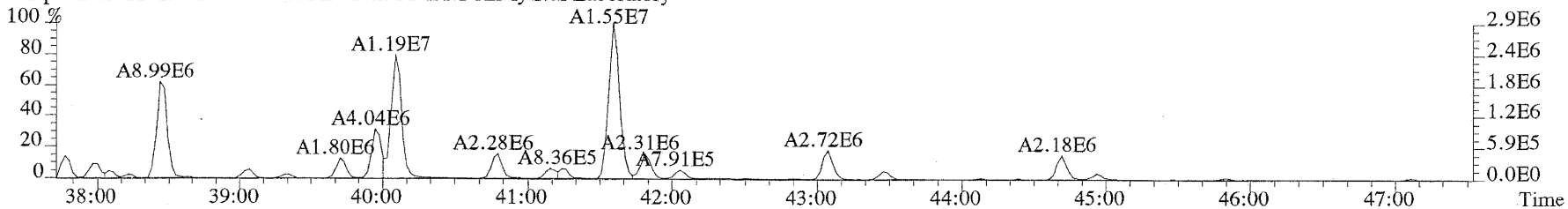
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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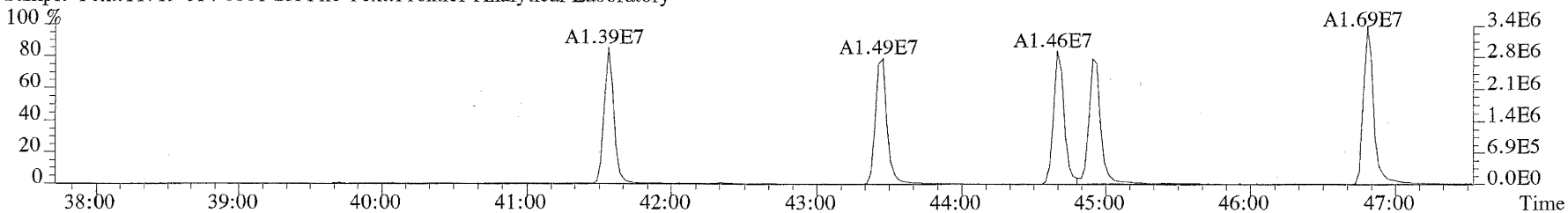
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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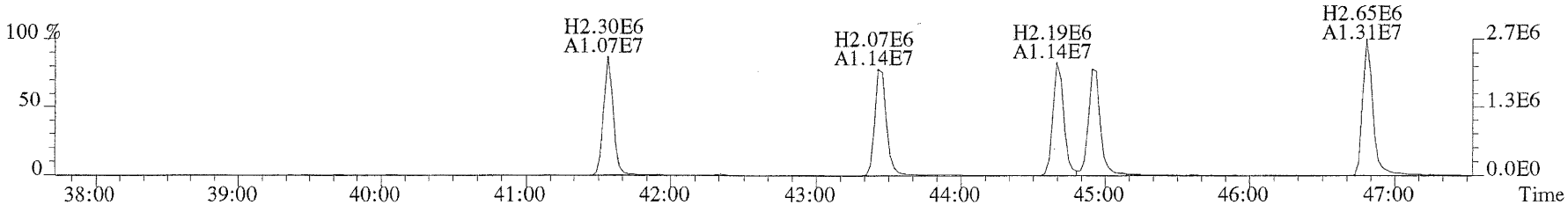
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



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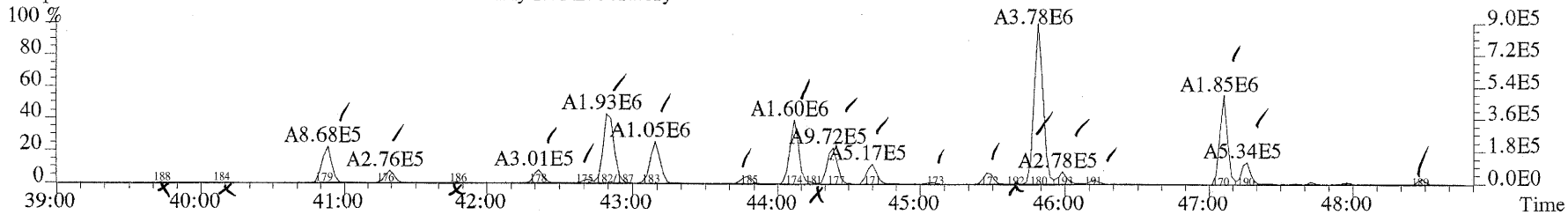
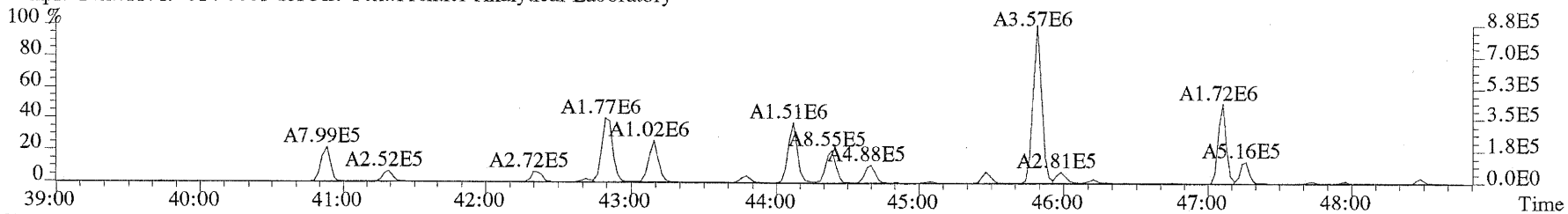
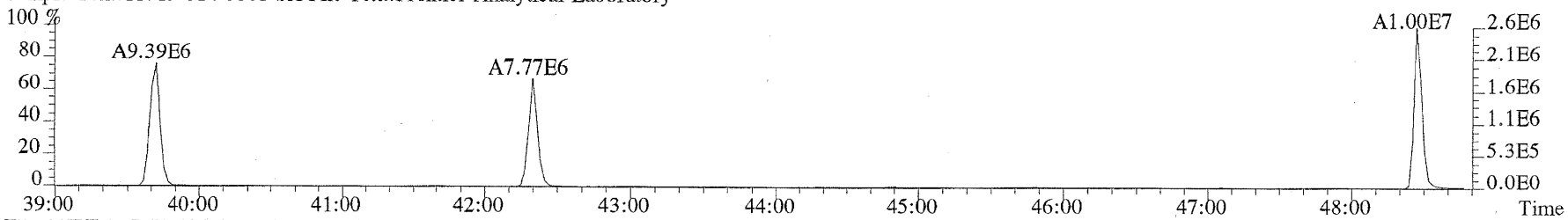
393.8025 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



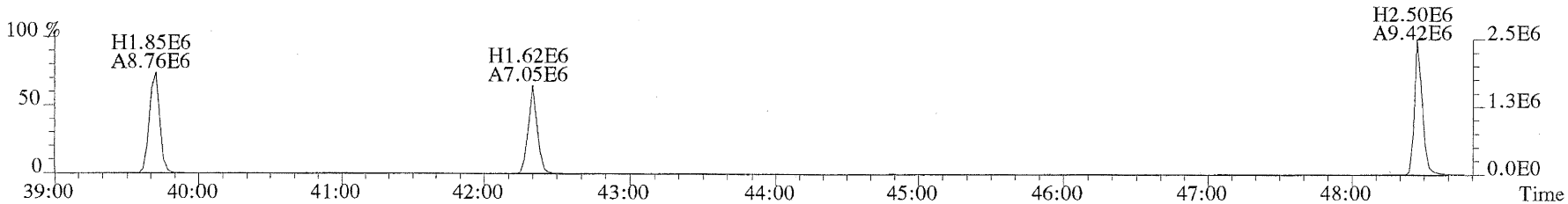
File:31JUL18Z #1-404 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



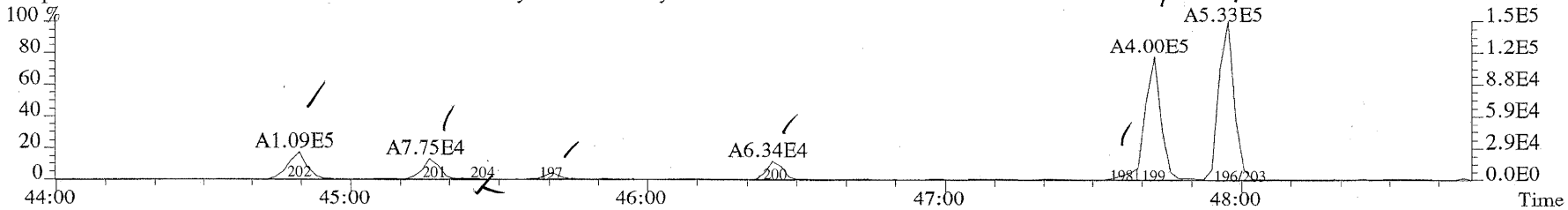
File:31JUL18Z #1-404 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



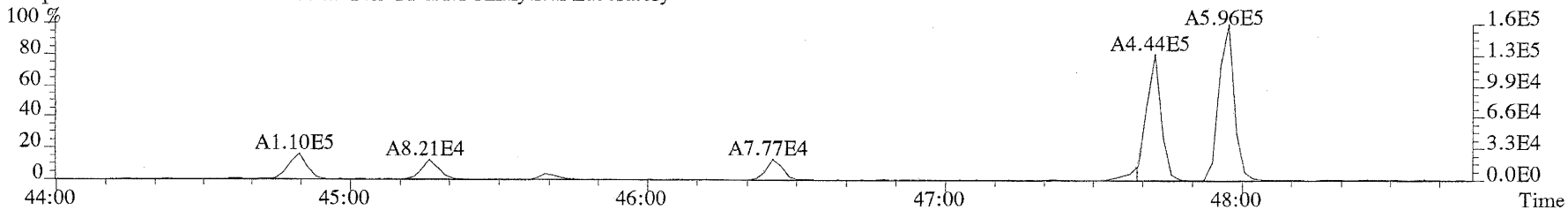
File:31JUL18Z #1-404 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:12 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



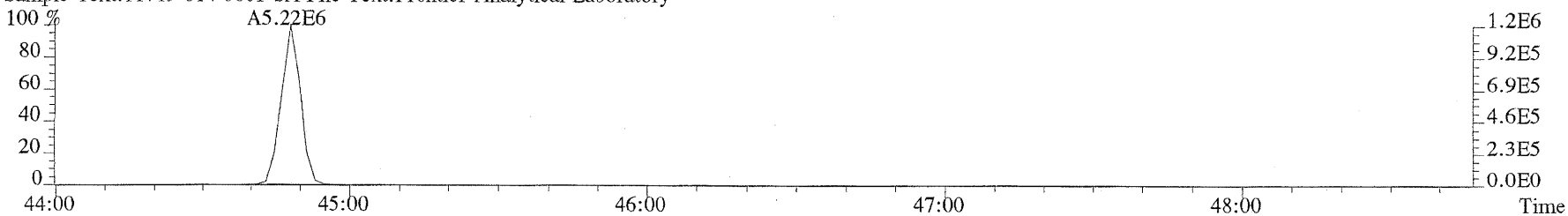
File:31JUL18Z #1-404 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



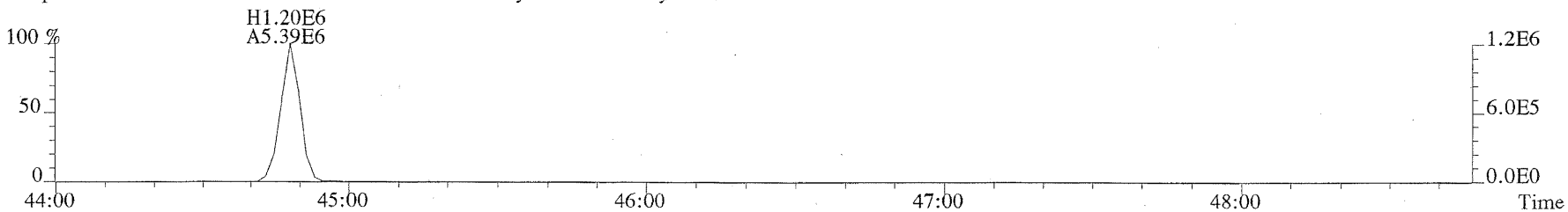
File:31JUL18Z #1-404 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



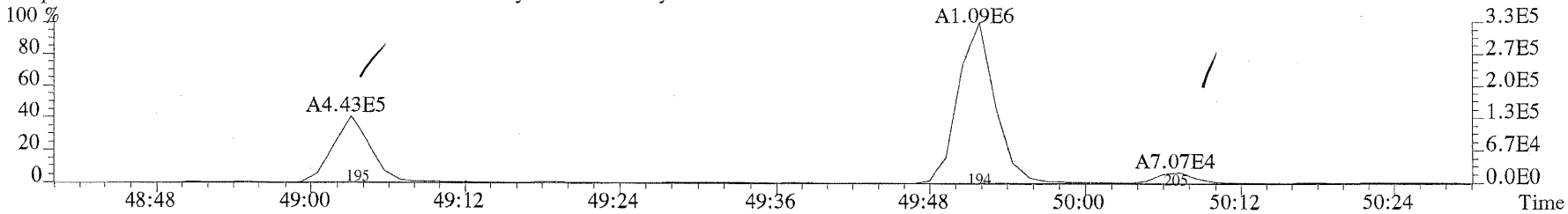
File:31JUL18Z #1-404 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



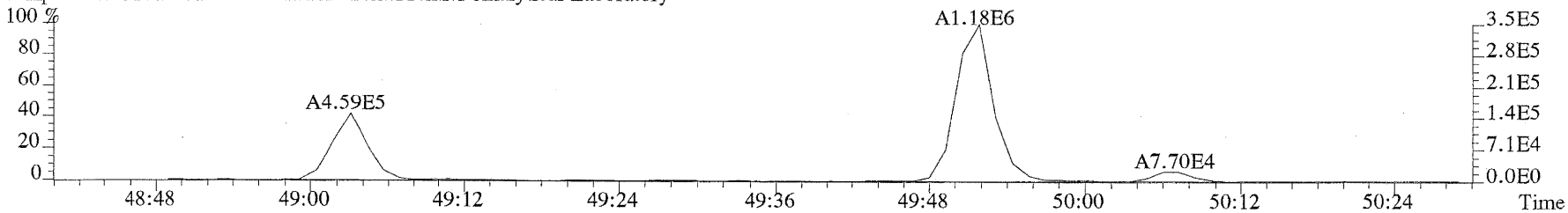
File:31JUL18Z #1-404 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



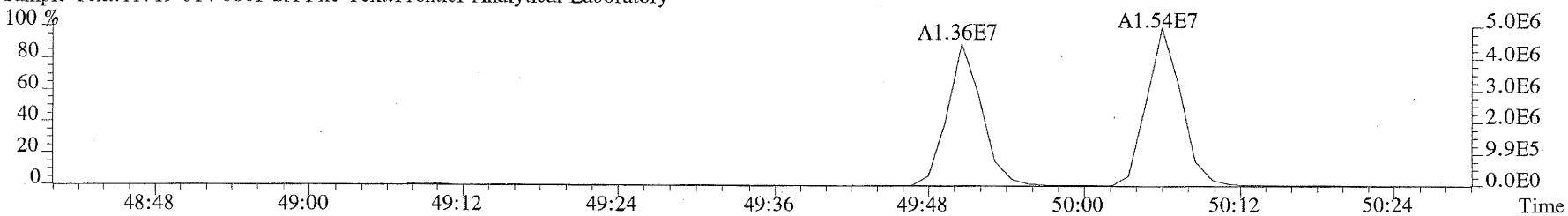
File:31JUL18Z #1-314 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



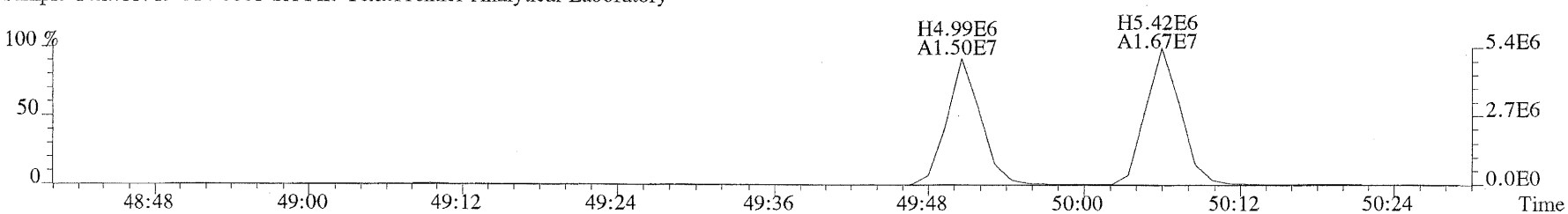
File:31JUL18Z #1-314 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



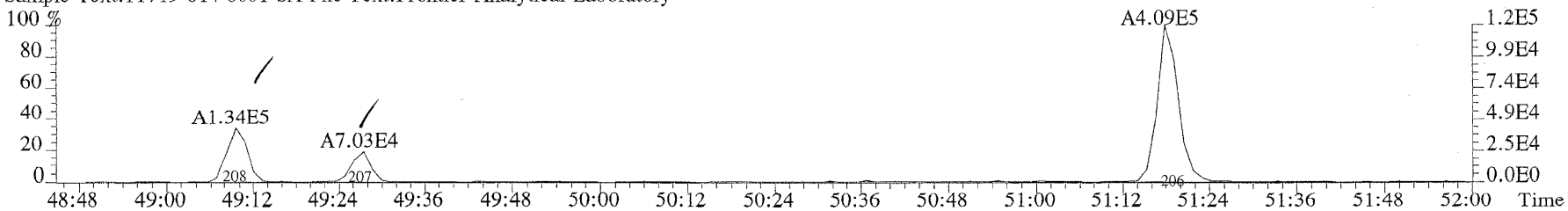
File:31JUL18Z #1-314 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



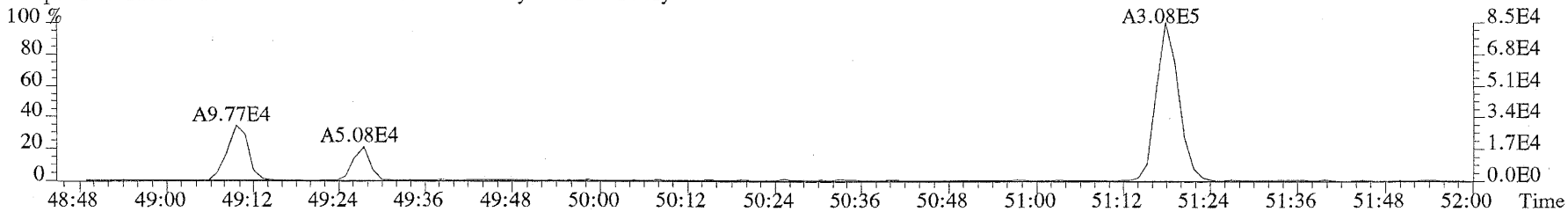
File:31JUL18Z #1-314 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



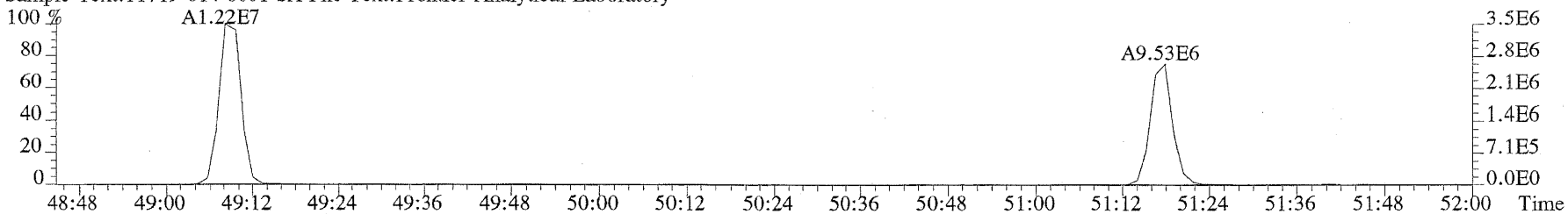
File:31JUL18Z #1-314 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



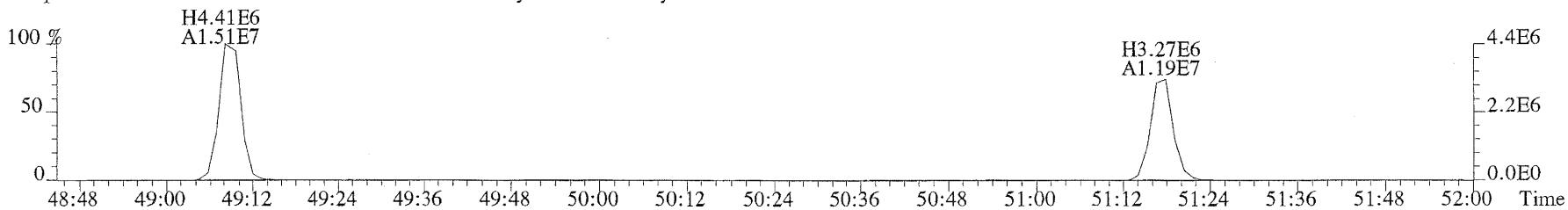
File:31JUL18Z #1-314 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



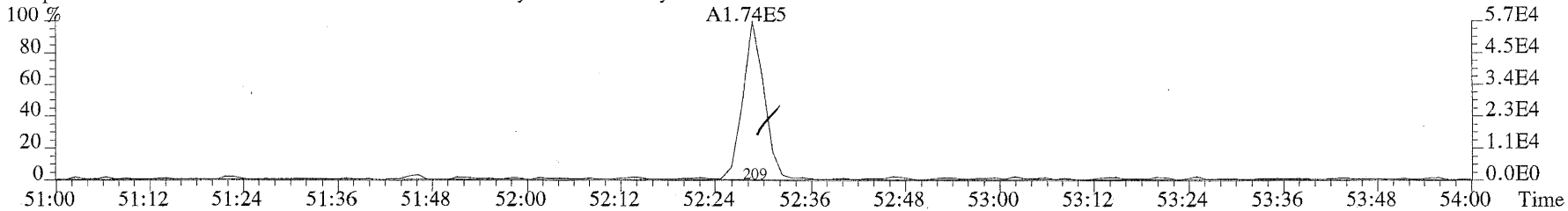
File:31JUL18Z #1-314 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



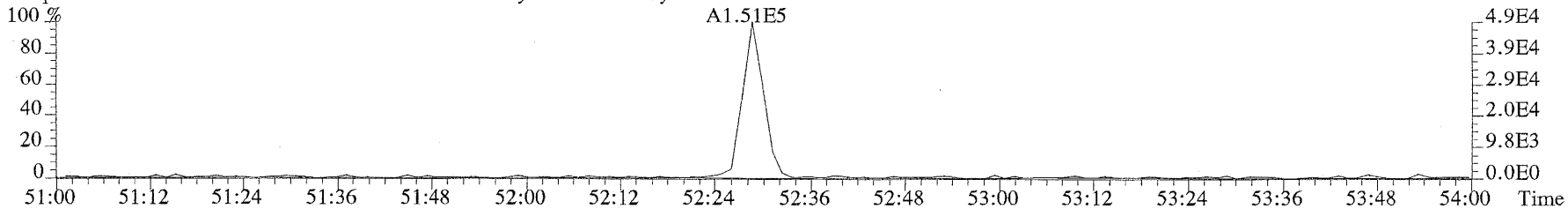
File:31JUL18Z #1-314 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



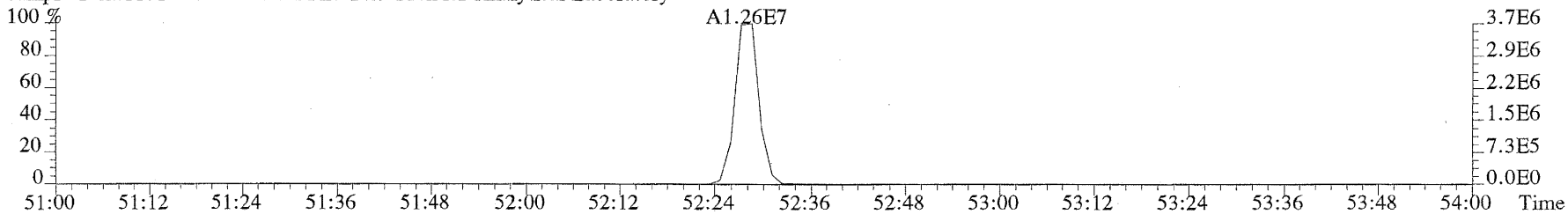
File:31JUL18Z #1-314 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



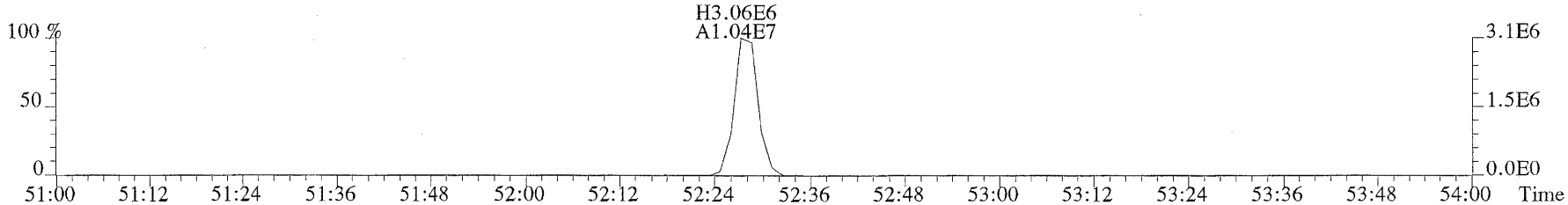
File:31JUL18Z #1-314 Acq:31-JUL-2018 20:57:23 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:12 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-014-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 20:57:23 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:11719-014-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 20:57:23 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:11719-014-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-015-0001-SA Filename: 31JUL18Z Sam:13 Acquired: 31-JUL-18 21:55:44 ICal: DAILY209FAL4-7-31-18
Client ID: LDW-Y1-SU-ENR-CC-CORE ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 5.030

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	8.49e+05	3.24 y	14:32	1.28	24.4		-	-	*			
13C-PCB-1	5.41e+07	3.31 y	14:31	0.83	1840					92.6	1.41e+07	4.17e+06
PCB-2	8.82e+04	3.05 y	16:45	1.15	2.86	J	-	-	*			
PCB-3	8.31e+05	3.10 y	16:58	1.27	24.8		-	-	*			
13C-PCB-3	5.25e+07	3.36 y	16:57	0.83	1770					89.1	1.22e+07	3.62e+06
PCB-4	2.07e+06	1.37 y	18:11	1.44	69.7		-	-	*			
PCB-10	1.94e+05	1.47 y	18:15	1.35	5.19		-	-	*			
13C-PCB-4	4.10e+07	1.64 y	18:11	0.68	1680					84.8	7.71e+06	4.61e+06
PCB-9	5.56e+05	1.55 y	19:53	1.44	13.9		-	-	*			
PCB-7	7.34e+05	1.65 y	19:55	1.55	17.0		-	-	*			
PCB-6	3.10e+06	1.38 y	20:31	1.44	77.8		-	-	*			
PCB-8	1.13e+07	1.43 y	20:53	1.45	283		-	-	*			
PCB-5	4.84e+05	1.58 y	20:58	1.46	11.9		-	-	*			
PCB-14	*	* n	NotFnd	1.36	*		804	2730	0.893			
PCB-11	3.14e+05	1.65 y	23:05	1.31	8.67		-	-	*			
PCB-13	6.12e+05	1.59 y	23:25	1.38	16.0		-	-	*			
PCB-12	5.79e+05	1.59 y	23:27	1.44	14.5		-	-	*			
PCB-15	6.12e+06	1.41 y	23:45	1.38	127		-	-	*			
13C-PCB-15	6.93e+07	1.62 y	23:44	1.01	1920					96.6	1.01e+07	6.16e+06
PCB-19	4.59e+05	1.16 y	22:05	1.31	31.8		-	-	*			
PCB-30	*	* n	NotFnd	1.68	*		650	680	0.692			
PCB-18	5.89e+06	1.09 y	23:38	1.25	427		-	-	*			
PCB-17	2.94e+06	1.10 y	23:48	1.37	194		-	-	*			
PCB-27	3.38e+05	1.08 y	24:19	1.68	18.2		-	-	*			
PCB-24	3.58e+05	1.19 y	24:20	1.74	18.7		-	-	*			
PCB-16	2.00e+06	1.07 y	24:49	1.49	122		-	-	*			
PCB-32	2.51e+06	1.10 y	24:50	1.50	152		-	-	*			
13C-PCB-19	2.19e+07	1.10 y	22:04	0.35	1750					87.9	2.98e+06	2.71e+06
13C-PCB-9	7.07e+07	1.68 y	19:51	-	18.9							
PCB-34	1.78e+05	1.04 y	25:35	1.40	4.50		-	-	*			
PCB-23	*	* n	NotFnd	1.50	*		710	772	0.667			
PCB-29	1.33e+05	1.13 y	25:55	1.31	3.57	J	-	-	*			
PCB-26	3.62e+06	1.09 y	26:07	1.25	102		-	-	*			
PCB-25	2.19e+06	1.13 y	26:17	1.60	48.1		-	-	*			
PCB-31	1.53e+07	1.12 y	26:37	1.21	447		-	-	*			
PCB-28	1.85e+07	1.15 y	26:42	1.69	385		-	-	*			
PCB-20	9.49e+06	1.12 y	27:18	1.36	246		-	-	*		Co-elute PCB 21/33	
PCB-21	9.49e+06	1.12 y	27:18	1.36	246		-	-	*		Co-elute PCB 20/33	
PCB-33	9.49e+06	1.12 y	27:18	1.36	246		-	-	*		Co-elute PCB 20/21	
PCB-22	5.79e+06	1.12 y	27:43	1.41	145		-	-	*			
PCB-36	*	* n	NotFnd	1.20	*		710	772	0.836			
PCB-39	*	* n	NotFnd	1.05	*		710	772	0.951			
PCB-38	2.31e+05	1.19 y	29:29	1.39	5.86		-	-	*			
PCB-35	3.30e+05	1.10 y	30:02	1.12	10.4		-	-	*			
PCB-37	5.42e+06	1.10 y	30:30	1.40	137		-	-	*			
13C-PCB-37	5.64e+07	1.08 y	30:29	1.54	2310					116	3.84e+06	3.52e+06

PCB-54	2.54e+04	0.68	y	25:37	1.13	1.38	J	-	-	*				
PCB-50	3.28e+04	0.85	y	26:42	0.72	2.81	J	-	-	*				
PCB-53	1.03e+06	0.73	y	27:20	0.76	82.9		-	-	*				
PCB-51	3.41e+05	0.81	y	27:39	0.76	27.6		-	-	*				
PCB-45	8.93e+05	0.79	y	28:04	0.63	86.9		-	-	*				
PCB-46	3.50e+05	0.75	y	28:32	0.65	33.4		-	-	*				
PCB-52	1.24e+07	0.76	y	28:59	0.92	834		-	-	*		Co-elute PCB 69		
PCB-69	1.24e+07	0.76	y	28:59	0.92	834		-	-	*		Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	0.87	*		620	716	1.03				
PCB-43	8.96e+06	0.78	y	29:16	0.72	767		-	-	*		Co-elute PCB 49		
PCB-49	8.96e+06	0.78	y	29:16	0.72	767		-	-	*		Co-elute PCB 43		
PCB-47	3.06e+06	0.83	y	29:28	0.84	225		-	-	*				
PCB-48	2.19e+06	0.70	y	29:35	0.96	141		-	-	*		Co-elute PCB 75		
PCB-75	2.19e+06	0.70	y	29:35	0.96	141		-	-	*		Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.01	*		620	716	0.889				
PCB-62	*	*	n	NotFnd	0.97	*		620	716	0.930				
PCB-44	6.99e+06	0.76	y	30:16	0.66	649		-	-	*				
PCB-42	3.45e+06	0.72	y	30:31	0.85	250		-	-	*		Co-elute PCB 59		
PCB-59	3.45e+06	0.72	y	30:31	0.85	250		-	-	*		Co-elute PCB 42		
PCB-72	8.59e+06	0.77	y	31:10	0.92	578		-	-	*		Co-elute PCB 41/71/64		
PCB-41	8.59e+06	0.77	y	31:10	0.92	578		-	-	*		Co-elute PCB 72/71/64		
PCB-71	8.59e+06	0.77	y	31:10	0.92	578		-	-	*		Co-elute PCB 72/41/64		
PCB-64	8.59e+06	0.77	y	31:10	0.92	578		-	-	*		Co-elute PCB 72/41/71		
PCB-68	2.10e+05	0.77	y	31:22	1.03	12.6		-	-	*				
PCB-40	1.07e+06	0.76	y	31:30	0.59	112		-	-	*				
PCB-57	9.64e+04	0.87	y	31:49	0.97	6.15		-	-	*				
PCB-67	3.65e+05	0.82	y	32:06	0.98	22.8		-	-	*				
PCB-58	9.52e+04	0.83	y	32:12	0.90	6.55		-	-	*				
PCB-63	4.97e+05	0.78	y	32:22	1.02	30.1		-	-	*				
PCB-74	5.85e+06	0.78	y	32:39	1.13	320		-	-	*				
PCB-61	1.27e+07	0.77	y	32:50	1.07	729		-	-	*		Co-elute PCB 70		
PCB-70	1.27e+07	0.77	y	32:50	1.07	729		-	-	*		Co-elute PCB 61		
PCB-76	1.22e+07	0.76	y	33:02	1.00	755		-	-	*		Co-elute PCB 66		
PCB-66	1.22e+07	0.76	y	33:02	1.00	755		-	-	*		Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.10	*		620	716	0.818				
PCB-55	3.15e+05	0.77	y	33:28	1.07	18.2		-	-	*				
13C-PCB-54	3.22e+07	0.80	y	25:35	1.28	1580					79.7	3.29e+06	4.09e+06	
PCB-104	*	*	n	NotFnd	1.27	*		324	256	0.698				
PCB-96	1.14e+05	1.54	y	31:24	1.13	9.38		-	-	*				
PCB-103	2.13e+05	1.46	y	31:48	0.97	20.6		-	-	*				
PCB-100	6.90e+04	1.49	y	32:08	0.98	6.59		-	-	*				
PCB-94	5.49e+04	1.48	y	32:34	0.87	5.89		-	-	*				
PCB-98	*	*	n	NotFnd	1.02	*		324	256	0.873		Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	1.02	*		324	256	0.873		Co-elute PCB 98		
PCB-95	8.34e+06	1.62	y	33:05	0.88	885		-	-	*				
PCB-93	*	*	n	NotFnd	0.81	*		324	256	1.09				
PCB-88	1.46e+06	1.57	y	33:28	0.91	150		-	-	*		Co-elute PCB 91		
PCB-91	1.46e+06	1.57	y	33:28	0.91	150		-	-	*		Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.12	*		324	256	0.793				
13C-PCB-104	2.13e+07	1.62	y	30:05	0.76	1760					88.7	2.01e+06	1.24e+06	
13C-PCB-28	5.86e+07	1.05	y	26:42	1.88	1970					99.0	6.26e+06	5.60e+06	
13C-PCB-52	3.16e+07	0.78	y	28:58	-	23.2								

PCB-56	9.70e+06	0.83	y	33:59	1.26	344	-	-	*			Co-elute PCB 60
PCB-60	9.70e+06	0.83	y	33:59	1.26	344	-	-	*			Co-elute PCB 56
PCB-79	5.16e+05	0.79	y	35:00	1.19	19.5	-	-	*			
PCB-78	*	*	n	NotFnd	1.13	*	640	670	0.695			
PCB-81	6.12e+05	0.78	y	36:11	1.25	22.2	-	-	*			
13C-PCB-81	4.38e+07	0.80	y	36:11	1.79	1900				95.4	3.52e+06	4.45e+06
PCB-77	1.66e+06	0.82	y	36:45	1.17	62.8	-	-	*			
13C-PCB-77	4.50e+07	0.80	y	36:44	1.72	2020				102	3.95e+06	4.70e+06
PCB-155	*	*	n	NotFnd	1.21	*	248	244	0.544			
PCB-150	4.34e+04	1.11	y	35:24	1.07	4.36	-	-	*			
PCB-152	*	*	n	NotFnd	1.04	*	248	244	0.636			
PCB-145	*	*	n	NotFnd	1.09	*	248	244	0.608			
PCB-136	2.07e+06	1.34	y	36:36	0.97	229	-	-	*			
PCB-148	*	*	n	NotFnd	0.86	*	248	244	0.768			
PCB-154	2.68e+05	1.38	y	37:10	1.02	28.4	-	-	*			
13C-PCB-155	1.85e+07	1.34	y	34:13	0.83	1710				86.2	2.10e+06	1.60e+06
13C-PCB-111	3.00e+07	1.62	y	36:18	1.23	1890				95.0	3.76e+06	2.26e+06
13C-PCB-101	2.57e+07	1.63	y	34:40	-	19.5						
PCB-84	6.52e+06	1.58	y	34:20	0.58	522	-	-	*			Co-elute PCB 92
PCB-92	6.52e+06	1.58	y	34:20	0.58	522	-	-	*			Co-elute PCB 84
PCB-89	1.76e+05	1.78	y	34:28	0.56	14.6	-	-	*			
PCB-90	1.84e+07	1.57	y	34:41	0.66	1290	-	-	*			Co-elute PCB 101
PCB-101	1.84e+07	1.57	y	34:41	0.66	1290	-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.69	*	624	478	0.951			
PCB-99	9.01e+06	1.58	y	35:00	0.75	556	-	-	*			
PCB-119	7.98e+05	1.54	y	35:27	0.79	46.9	-	-	*			
PCB-83	8.73e+05	1.53	y	35:35	0.67	60.3	-	-	*			Co-elute PCB 112
PCB-112	8.73e+05	1.53	y	35:35	0.67	60.3	-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.80	*	624	478	0.818			
PCB-97	4.73e+06	1.55	y	35:54	0.72	302	-	-	*			
PCB-86	*	*	n	NotFnd	0.66	*	624	478	0.985			
PCB-125	6.08e+06	1.56	y	36:11	0.73	385	-	-	*			Co-elute PCB 87/117
PCB-87	6.08e+06	1.56	y	36:11	0.73	385	-	-	*			Co-elute PCB 125/117
PCB-117	6.08e+06	1.56	y	36:11	0.73	385	-	-	*			Co-elute PCB 125/87
PCB-111	3.99e+05	1.44	y	36:21	0.91	20.3	-	-	*			Co-elute PCB 115
PCB-115	3.99e+05	1.44	y	36:21	0.91	20.3	-	-	*			Co-elute PCB 111
PCB-85	2.47e+06	1.63	y	36:26	0.69	164	-	-	*			Co-elute PCB 116
PCB-116	2.47e+06	1.63	y	36:26	0.69	164	-	-	*			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.86	*	624	478	0.760			
PCB-110	2.22e+07	1.59	y	36:49	0.85	1210	-	-	*			
PCB-82	1.39e+06	1.61	y	37:24	0.51	126	-	-	*			
PCB-124	1.09e+06	1.54	y	38:05	1.24	40.6	-	-	*			
PCB-108	2.55e+06	1.56	y	38:13	1.24	95.3	-	-	*			Co-elute PCB 107
PCB-107	2.55e+06	1.56	y	38:13	1.24	95.3	-	-	*			Co-elute PCB 108
PCB-123	4.27e+05	1.52	y	38:23	1.50	13.5	-	-	*			
13C-PCB-123	4.20e+07	1.62	y	38:21	1.55	1930				97.0	5.30e+06	3.25e+06
PCB-118	2.90e+07	1.62	y	38:33	1.11	1170	-	-	*			Co-elute PCB 106
PCB-106	2.90e+07	1.62	y	38:33	1.11	1170	-	-	*			Co-elute PCB 118
13C-PCB-118	4.41e+07	1.63	y	38:31	1.75	1800				90.7	5.39e+06	3.32e+06
PCB-114	7.33e+05	1.58	y	39:09	1.30	25.6	-	-	*			
13C-PCB-114	4.37e+07	1.62	y	39:09	1.58	1970				99.2	5.33e+06	3.21e+06
PCB-122	3.49e+05	1.54	y	39:17	1.17	13.8	-	-	*			
PCB-105	9.77e+06	1.61	y	39:58	1.24	368	-	-	*			
13C-PCB-105	4.25e+07	1.65	y	39:57	1.49	2040				103	4.87e+06	3.01e+06

PCB-127	*	*	n	NotFnd	1.09	*	880	678	0.846				
PCB-126	1.24e+05	1.53	y	42:05	1.28	4.64	-	-	*				
13C-PCB-126	4.15e+07	1.65	y	42:07	1.40	2120				106	4.16e+06	2.47e+06	
PCB-151	3.69e+06	1.30	y	37:47	0.78	305	-	-	*				
PCB-135	2.24e+06	1.29	y	38:00	0.91	159	-	-	*				
PCB-144	8.30e+05	1.32	y	38:06	0.91	58.8	-	-	*				
PCB-147	3.73e+05	1.20	y	38:15	0.99	24.4	-	-	*				
PCB-139	1.57e+07	1.28	y	38:28	0.98	1040	-	-	*				Co-elute PCB 149
PCB-149	1.57e+07	1.28	y	38:28	0.98	1040	-	-	*				Co-elute PCB 139
PCB-140	2.08e+05	1.38	y	38:39	0.99	13.6	-	-	*				
PCB-143	1.00e+06	1.28	y	39:04	0.91	70.5	-	-	*				Co-elute PCB 134
PCB-134	1.00e+06	1.28	y	39:04	0.91	70.5	-	-	*				Co-elute PCB 143
PCB-131	5.74e+05	1.22	y	39:20	0.91	40.5	-	-	*				Co-elute PCB 133
PCB-133	5.74e+05	1.22	y	39:20	0.91	40.5	-	-	*				Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.83	*	756	684	1.48				
PCB-165	3.49e+06	1.25	y	39:43	1.09	207	-	-	*				Co-elute PCB 146
PCB-146	3.49e+06	1.25	y	39:43	1.09	207	-	-	*				Co-elute PCB 165
PCB-161	6.30e+06	1.39	y	39:58	1.00	405	-	-	*				Co-elute PCB 132
PCB-132	6.30e+06	1.39	y	39:58	1.00	405	-	-	*				Co-elute PCB 161
PCB-153	2.02e+07	1.24	y	40:06	1.09	1200	-	-	*				
PCB-168	*	*	n	NotFnd	1.19	*	756	684	1.04				
PCB-141	3.17e+06	1.23	y	40:48	0.92	222	-	-	*				
PCB-137	8.82e+05	1.20	y	41:09	0.82	69.5	-	-	*				
PCB-130	1.11e+06	1.25	y	41:16	0.89	80.8	-	-	*				
PCB-138	2.19e+07	1.27	y	41:35	1.20	1180	-	-	*				Co-elute PCB 163/164
PCB-163	2.19e+07	1.27	y	41:35	1.20	1180	-	-	*				Co-elute PCB 138/164
PCB-164	2.19e+07	1.27	y	41:35	1.20	1180	-	-	*				Co-elute PCB 138/163
PCB-158	2.90e+06	1.25	y	41:49	1.21	154	-	-	*				Co-elute PCB 160
PCB-160	2.90e+06	1.25	y	41:49	1.21	154	-	-	*				Co-elute PCB 158
PCB-129	8.13e+05	1.20	y	42:03	0.78	66.9	-	-	*				
PCB-166	1.11e+05	1.15	y	42:30	1.14	6.29	-	-	*				
PCB-159	2.08e+05	1.30	y	42:51	1.20	11.2	-	-	*				
PCB-128	3.19e+06	1.28	y	43:04	1.02	202	-	-	*				Co-elute PCB 162
PCB-162	3.19e+06	1.28	y	43:04	1.02	202	-	-	*				Co-elute PCB 128
PCB-167	9.37e+05	1.33	y	43:29	1.08	56.7	-	-	*				
13C-PCB-167	3.03e+07	1.29	y	43:27	1.16	1860				93.7	3.11e+06	2.36e+06	
PCB-156	2.35e+06	1.23	y	44:41	1.13	141	-	-	*				
13C-PCB-156	2.93e+07	1.32	y	44:40	1.10	1900				95.6	3.04e+06	2.39e+06	
PCB-157	5.48e+05	1.26	y	44:56	1.21	28.5	-	-	*				
13C-PCB-157	3.17e+07	1.29	y	44:56	1.13	2010				101	3.12e+06	2.37e+06	
PCB-169	*	*	n	NotFnd	1.13	*	756	684	0.902				
13C-PCB-169	3.20e+07	1.30	y	46:48	1.06	2150				108	3.93e+06	3.09e+06	

PCB-188	*	*	n	NotFnd	1.18	*	436	412	0.787				
13C-PCB-188	2.07e+07	1.07	y	39:42	0.83	1770				89.0	2.33e+06	2.20e+06	
PCB-184	*	*	n	NotFnd	1.27	*	436	412	0.633				
PCB-179	1.92e+06	1.04	y	40:53	1.16	152	-	-	*				
PCB-176	6.22e+05	1.11	y	41:19	1.13	50.4	-	-	*				
PCB-186	*	*	n	NotFnd	1.20	*	436	412	0.674				
PCB-178	7.09e+05	1.10	y	42:21	0.82	79.9	-	-	*				
PCB-175	1.65e+05	1.08	y	42:41	0.85	17.8	-	-	*				
PCB-187	4.68e+06	1.08	y	42:51	0.97	443	-	-	*		Co-elute PCB 182		
PCB-182	4.68e+06	1.08	y	42:51	0.97	443	-	-	*		Co-elute PCB 187		
PCB-183	2.24e+06	1.04	y	43:09	0.92	223	-	-	*				
PCB-185	3.96e+05	1.10	y	43:47	0.87	41.7	-	-	*				
PCB-174	3.31e+06	1.07	y	44:07	0.88	344	-	-	*				
PCB-181	*	*	n	NotFnd	0.86	*	436	412	0.933				
PCB-177	2.00e+06	1.10	y	44:23	0.78	235	-	-	*				
PCB-171	9.46e+05	1.03	y	44:40	0.84	104	-	-	*				
PCB-173	8.25e+04	1.07	y	45:03	0.75	10.2	-	-	*				
PCB-172	5.55e+05	0.94	y	45:27	0.79	64.7	-	-	*				
PCB-192	*	*	n	NotFnd	1.11	*	436	412	0.726				
PCB-180	7.58e+06	1.08	y	45:49	1.07	648	-	-	*				
PCB-193	6.02e+05	1.14	y	45:59	1.12	49.2	-	-	*				
PCB-191	2.04e+05	1.10	y	46:12	1.06	17.7	-	-	*				
PCB-170	3.25e+06	1.10	y	47:06	0.78	381	-	-	*				
PCB-190	9.39e+05	1.08	y	47:16	1.05	82.3	-	-	*				
PCB-189	1.78e+05	1.05	y	48:29	1.20	13.0	-	-	*				
13C-PCB-189	2.26e+07	1.10	y	48:27	0.72	2230				112	3.15e+06	2.92e+06	
PCB-202	2.63e+05	0.86	y	44:50	1.07	39.7	-	-	*				
PCB-201	1.93e+05	1.00	y	45:18	0.97	32.0	-	-	*				
PCB-204	*	*	n	NotFnd	1.00	*	224	324	1.01				
PCB-197	5.84e+04	0.86	y	45:42	1.07	8.80	-	-	*				
PCB-200	1.80e+05	0.99	y	46:25	1.00	29.1	-	-	*				
PCB-198	5.54e+04	0.97	y	47:36	0.77	11.6	-	-	*				
PCB-199	1.12e+06	0.98	y	47:42	0.74	244	-	-	*				
PCB-203	1.34e+06	0.93	y	47:57	0.85	254	-	-	*		Co-elute PCB 196		
PCB-196	1.34e+06	0.93	y	47:57	0.85	254	-	-	*		Co-elute PCB 203		
13C-PCB-202	1.23e+07	0.93	y	44:48	0.48	1840				92.4	1.30e+06	1.39e+06	
13C-PCB-178	1.67e+07	1.11	y	42:20	0.61	1950				98.2	1.82e+06	1.65e+06	
13C-PCB-138	2.78e+07	1.29	y	41:34	-	19.9							
PCB-195	1.13e+06	0.93	y	49:03	0.90	67.7	-	-	*				
PCB-194	3.00e+06	0.91	y	49:52	0.92	176	-	-	*				
PCB-205	2.07e+05	0.97	y	50:07	1.19	9.40	-	-	*				
13C-PCB-205	3.70e+07	0.91	y	50:06	1.25	1850				93.0	5.45e+06	5.97e+06	
PCB-208	2.97e+05	1.35	y	49:09	0.99	19.1	-	-	*				
13C-PCB-208	3.12e+07	0.80	y	49:08	1.27	1530				77.1	4.35e+06	5.49e+06	
PCB-207	1.46e+05	1.48	y	49:27	1.01	10.3	-	-	*				
PCB-206	9.64e+05	1.36	y	51:18	0.96	79.8	-	-	*				
13C-PCB-206	2.49e+07	0.80	y	51:18	0.93	1660				83.5	3.63e+06	4.45e+06	
PCB-209	5.45e+05	1.25	y	52:28	1.13	36.6	-	-	*				
13C-PCB-209	2.63e+07	1.21	y	52:28	1.04	1580				79.5	3.86e+06	3.24e+06	
13C-PCB-194	3.19e+07	0.91	y	49:51	-	23.6							

Analyst: _____ Date: 8/20/18

File:31JUL18Z #1-784 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
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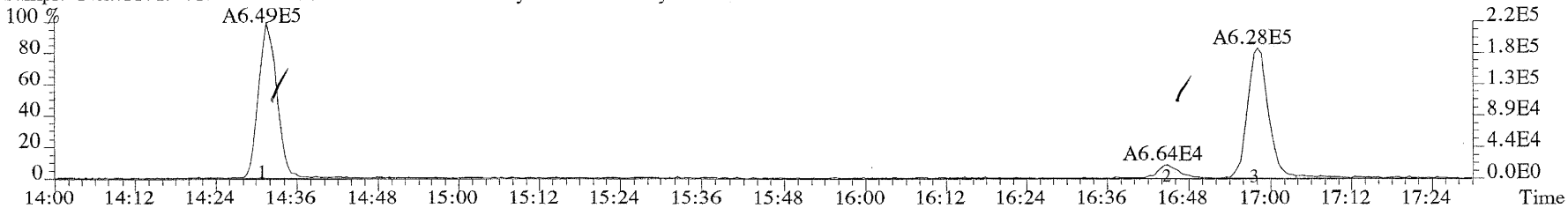
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



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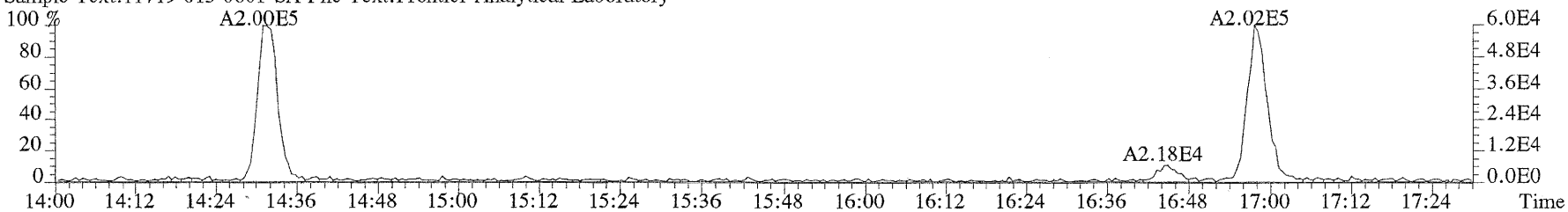

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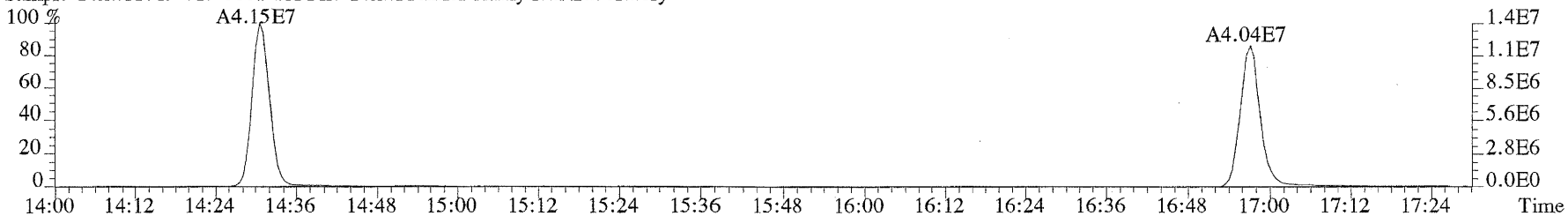

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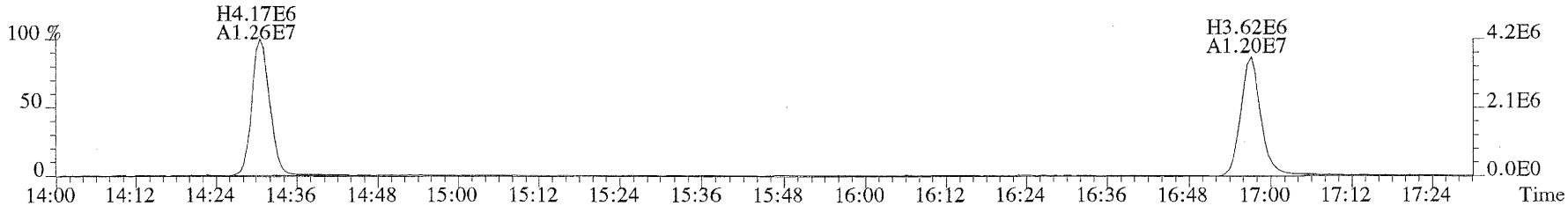

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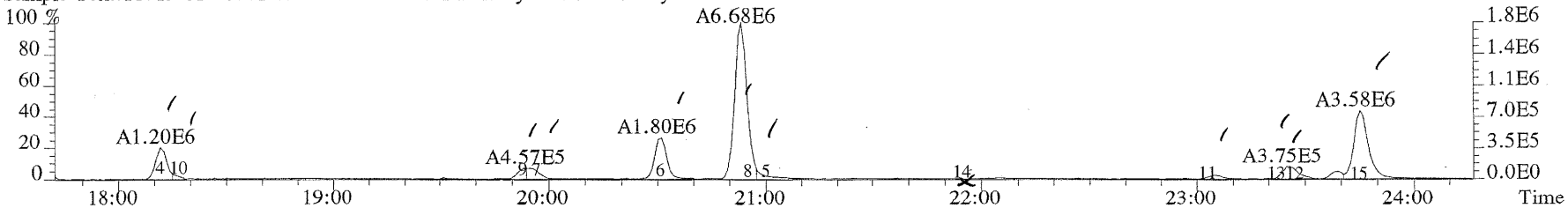
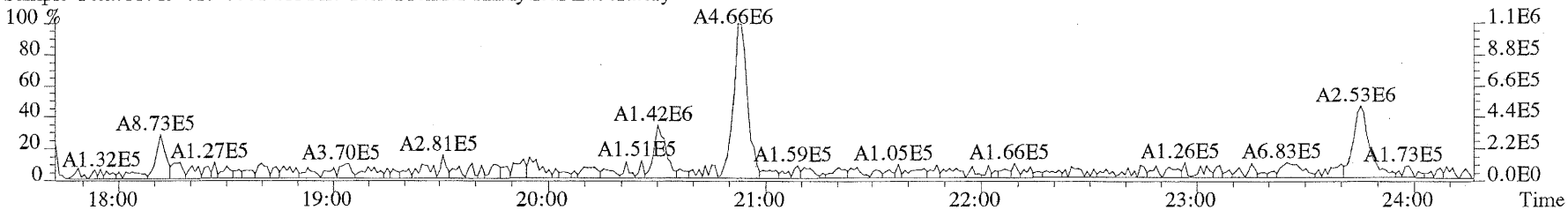
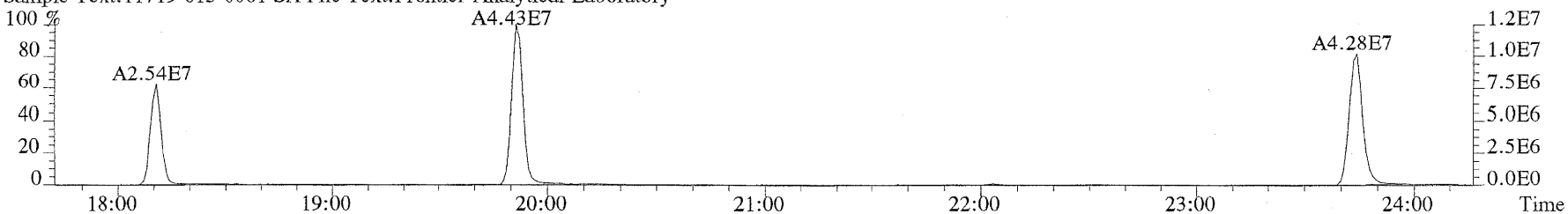
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



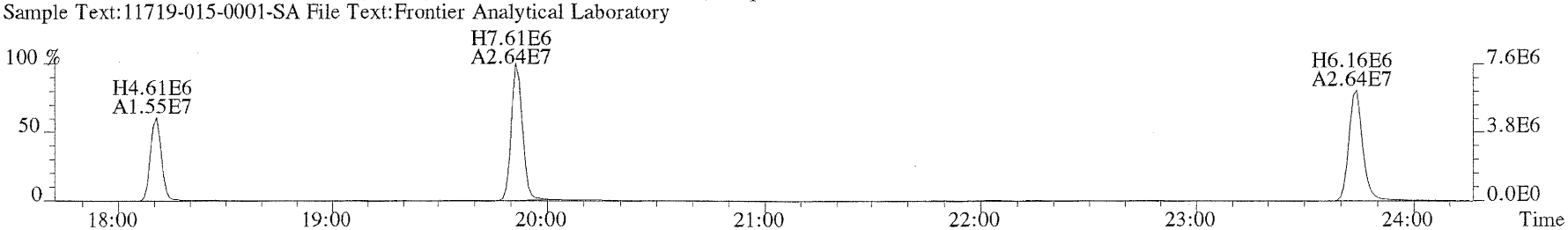
File:31JUL18Z #1-520 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



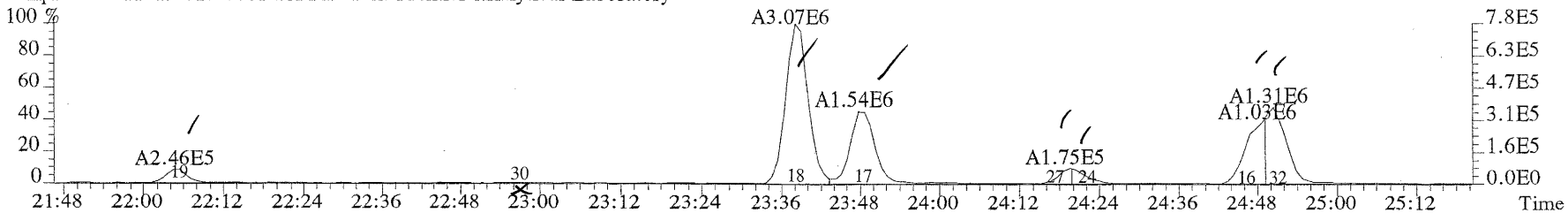
File:31JUL18Z #1-520 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



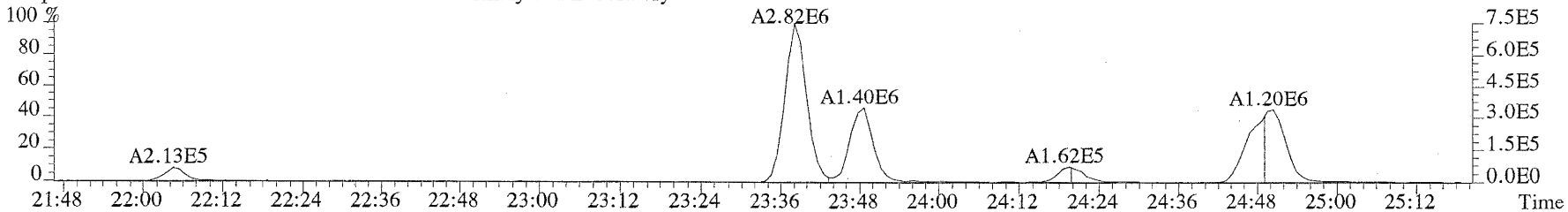
File:31JUL18Z #1-520 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



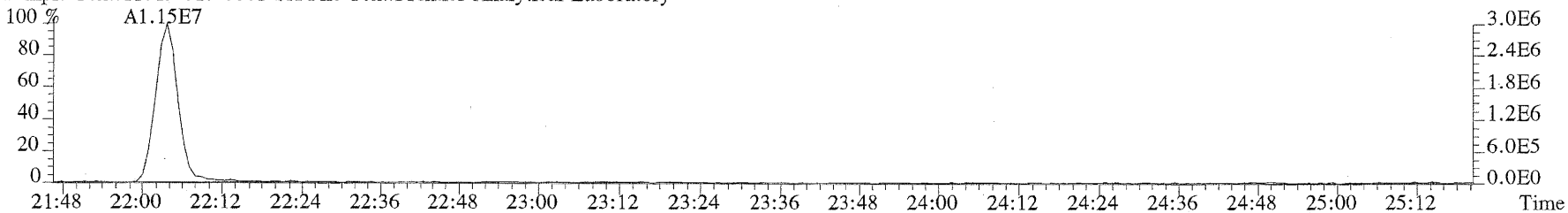
File:31JUL18Z #1-520 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



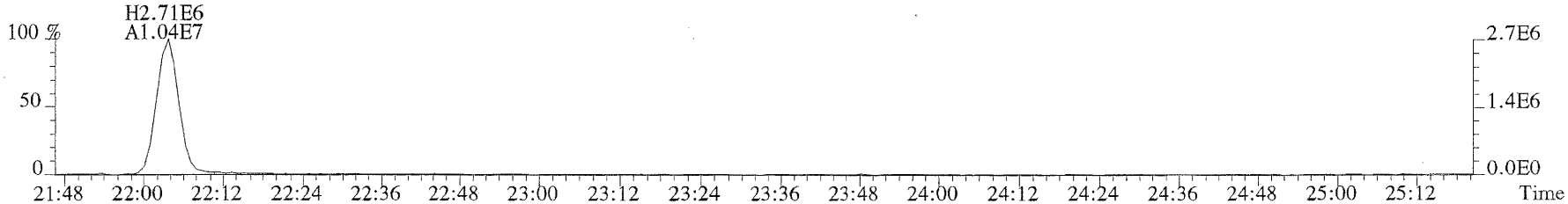
File:31JUL18Z #1-520 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



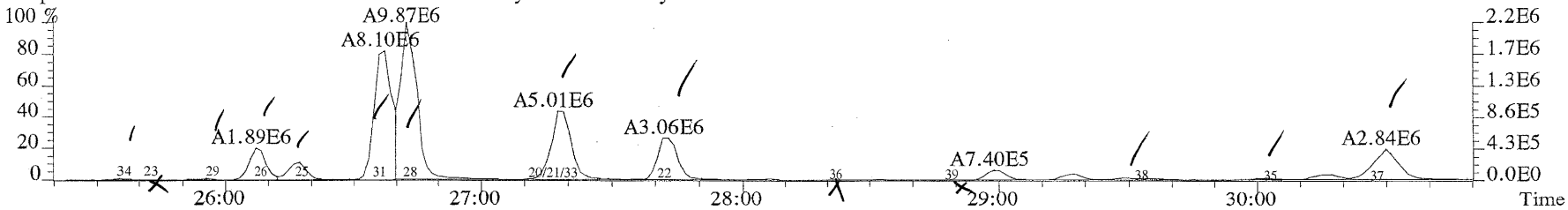
File:31JUL18Z #1-520 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



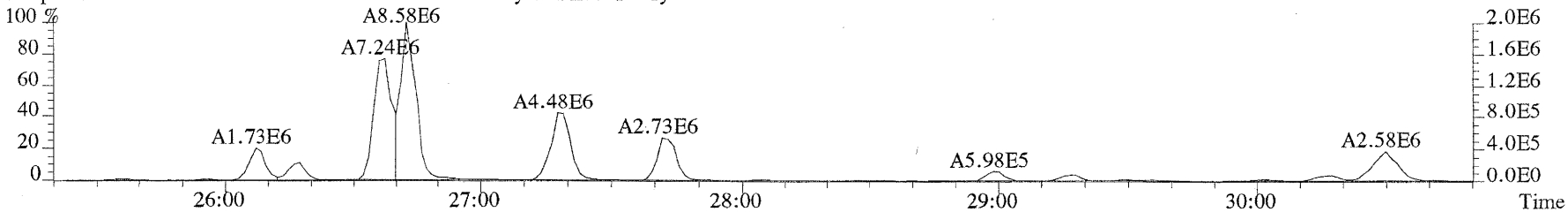
File:31JUL18Z #1-520 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



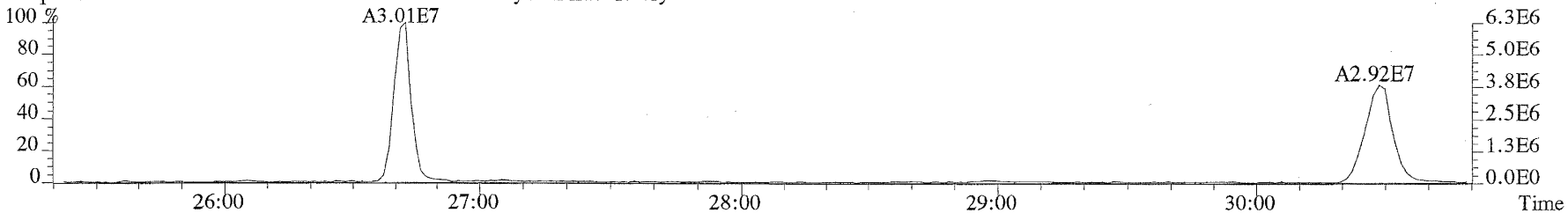
File:31JUL18Z #1-401 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



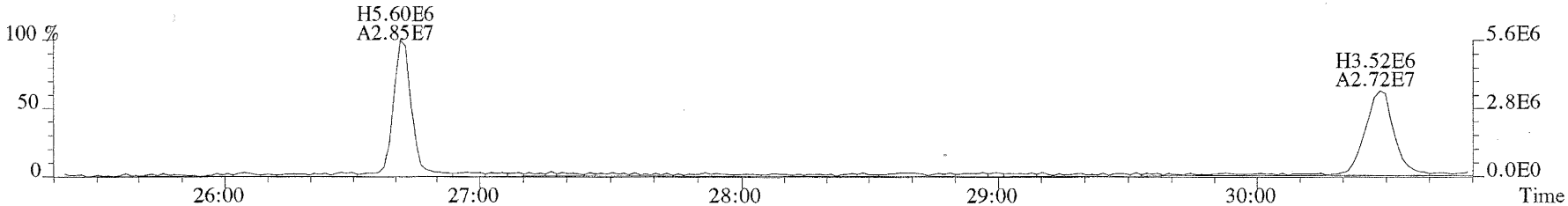
File:31JUL18Z #1-401 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



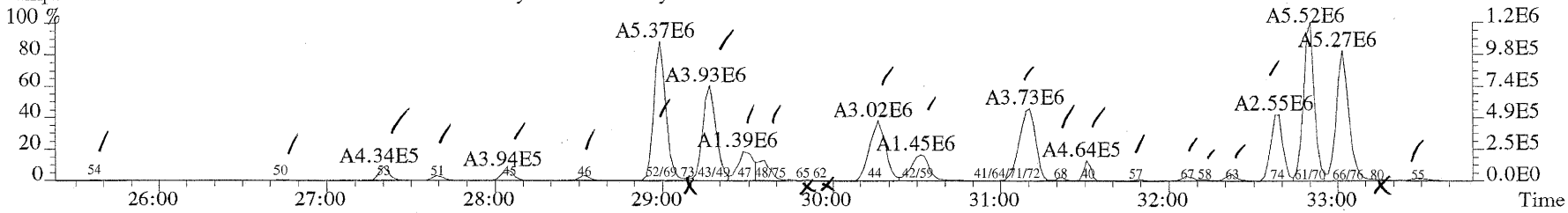
File:31JUL18Z #1-401 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



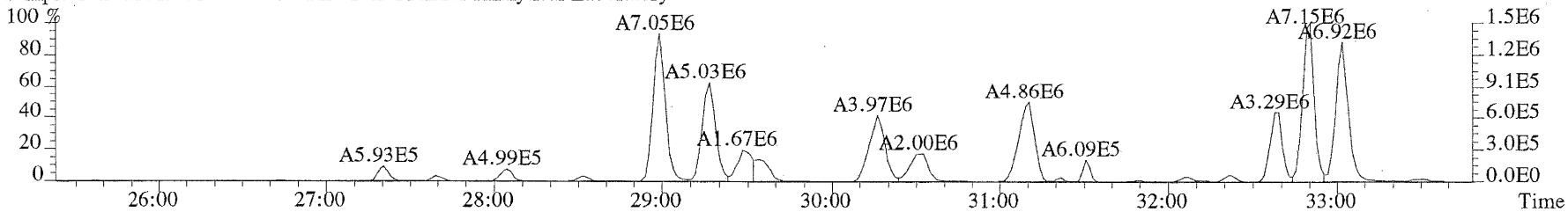
File:31JUL18Z #1-401 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



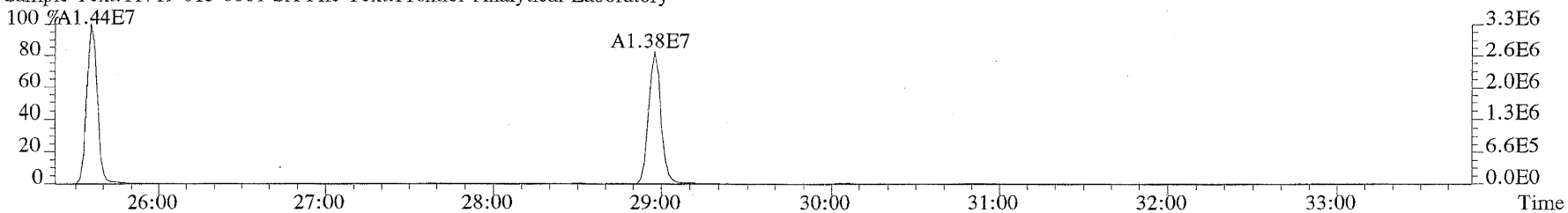
File:31JUL18Z #1-401 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



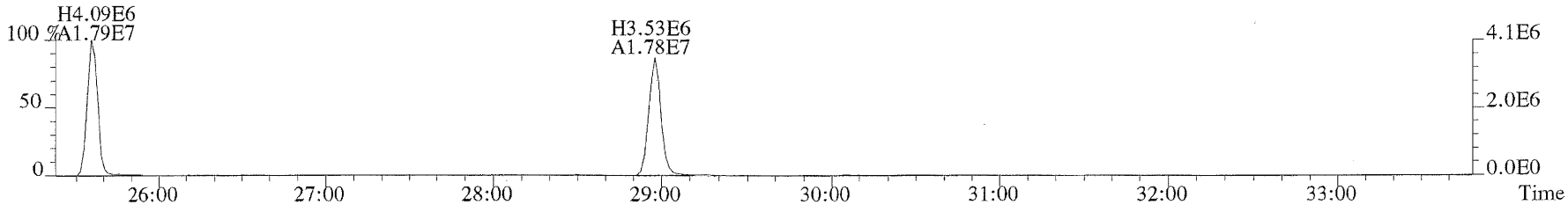
File:31JUL18Z #1-401 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



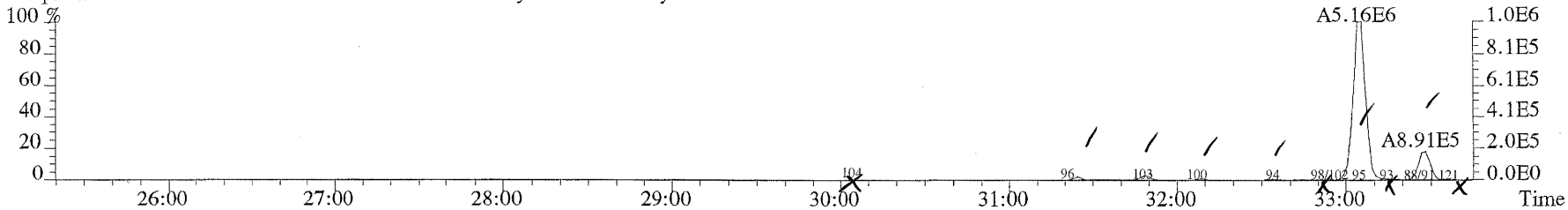
File:31JUL18Z #1-401 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



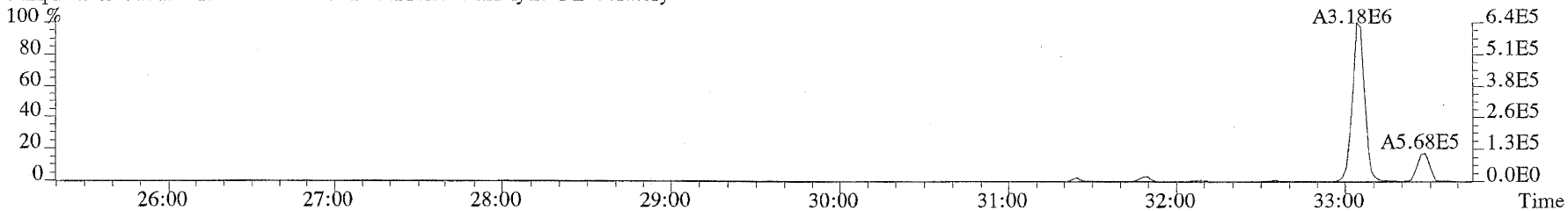
File:31JUL18Z #1-401 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



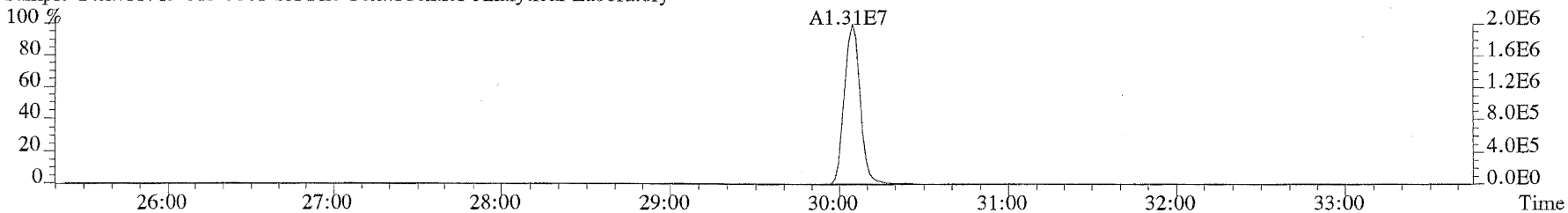
File:31JUL18Z #1-401 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



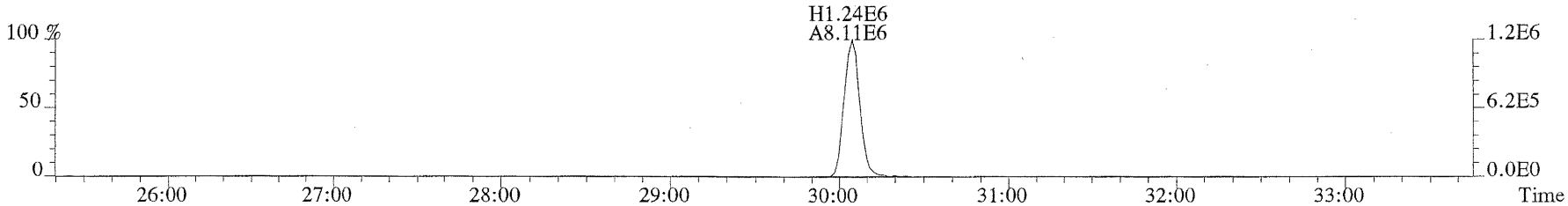
File:31JUL18Z #1-401 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



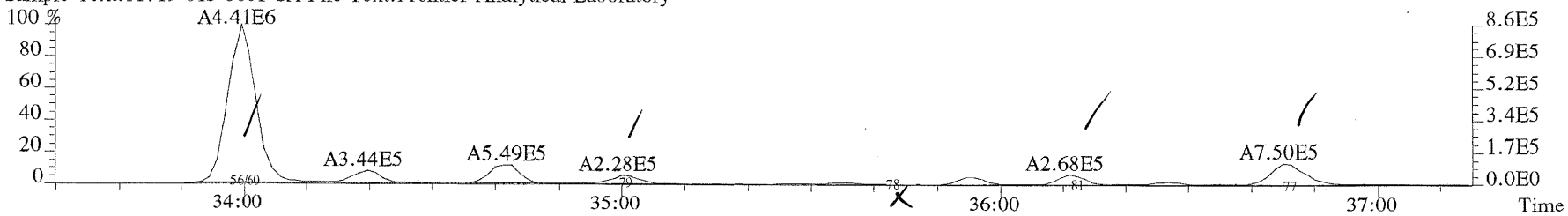
File:31JUL18Z #1-401 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



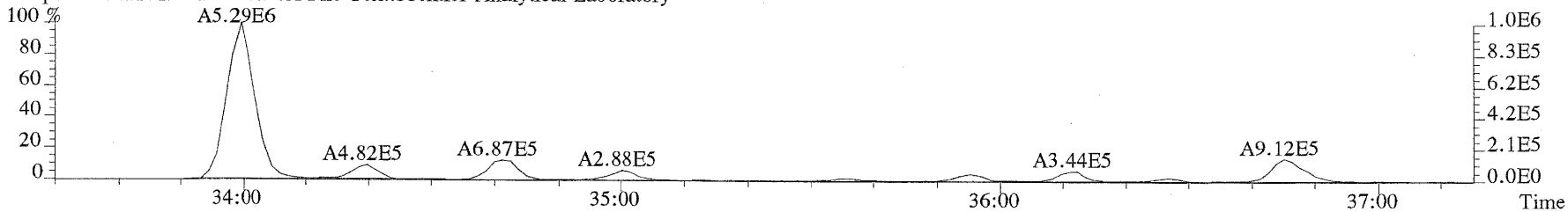
File:31JUL18Z #1-401 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



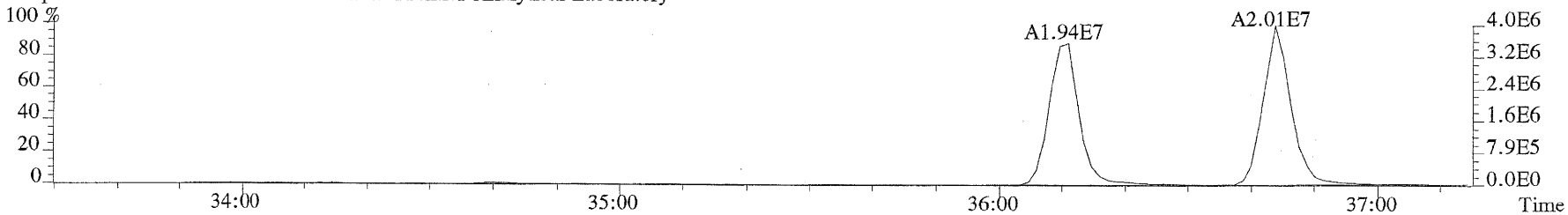
File:31JUL18Z #1-183 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



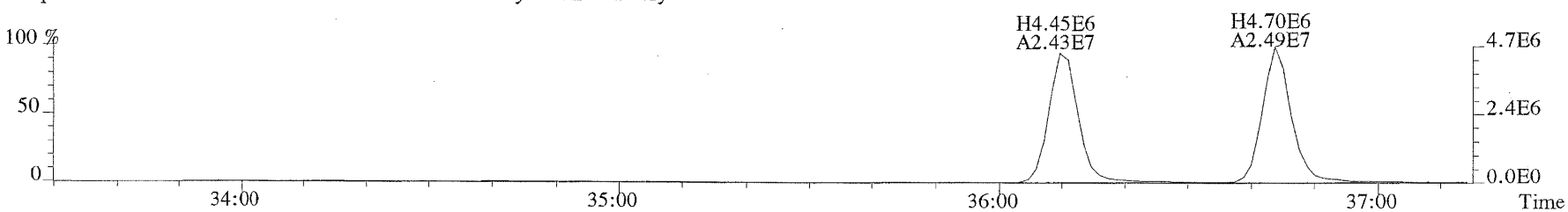
File:31JUL18Z #1-183 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



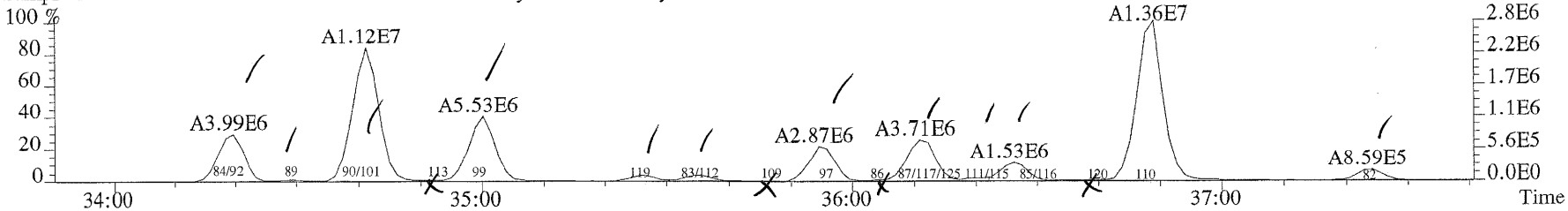
File:31JUL18Z #1-183 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



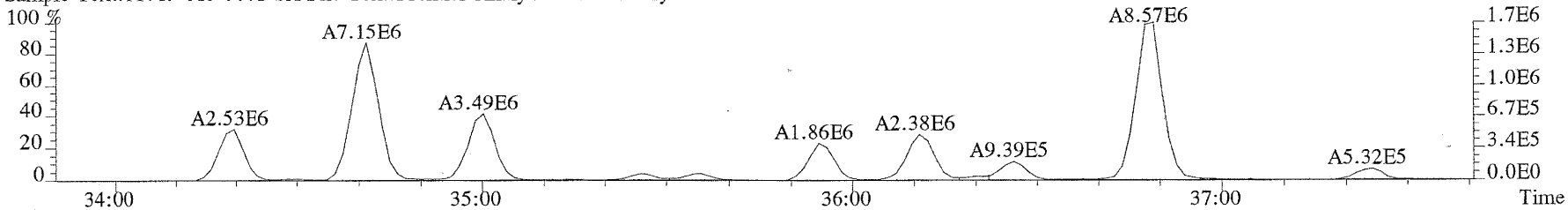
File:31JUL18Z #1-183 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



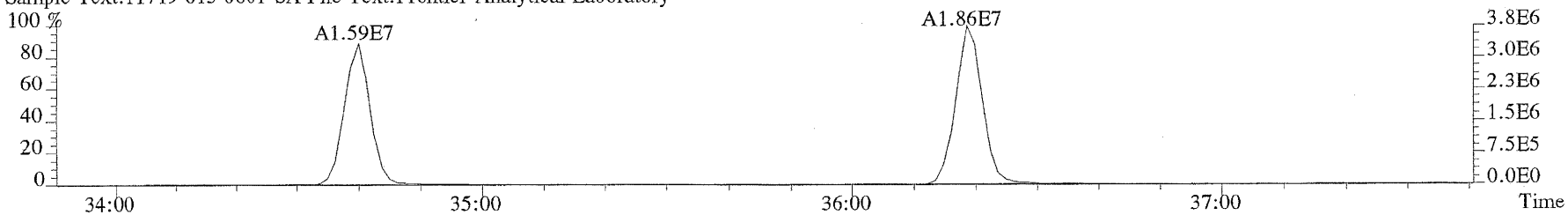
File:31JUL18Z #1-183 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



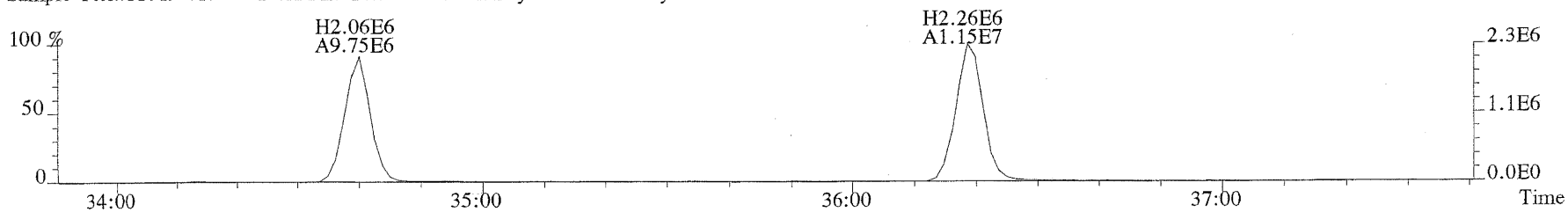
File:31JUL18Z #1-183 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



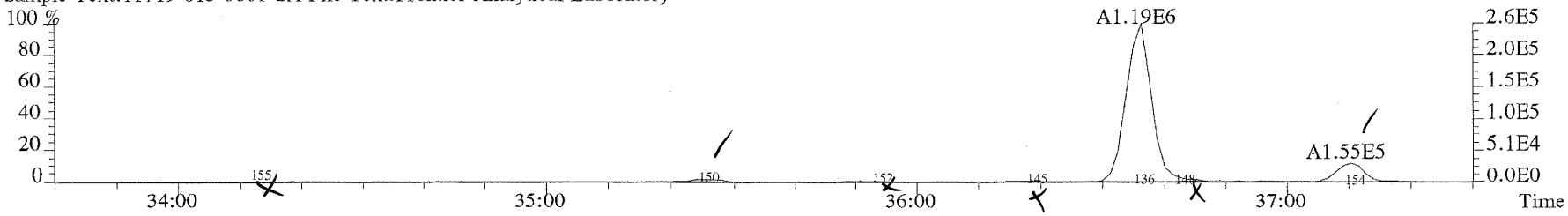
File:31JUL18Z #1-183 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



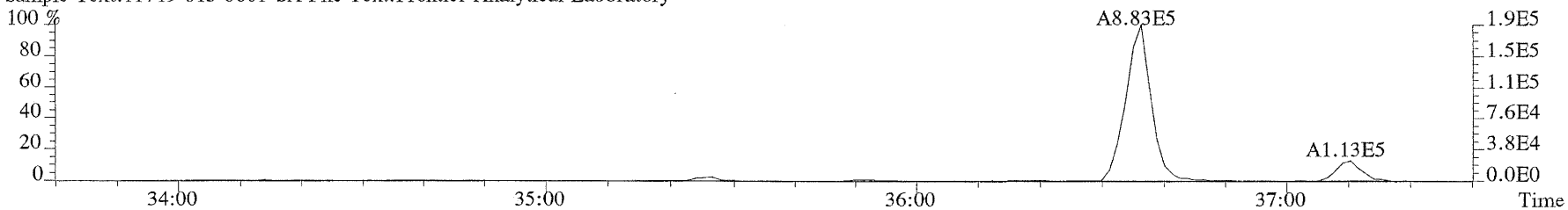
File:31JUL18Z #1-183 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



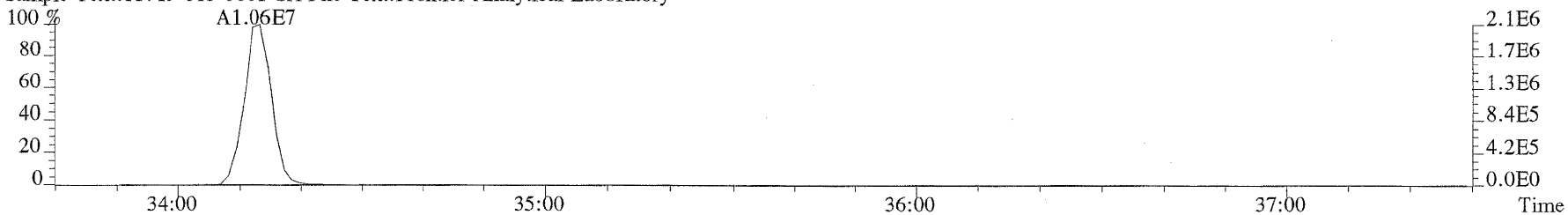
File:31JUL18Z #1-183 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



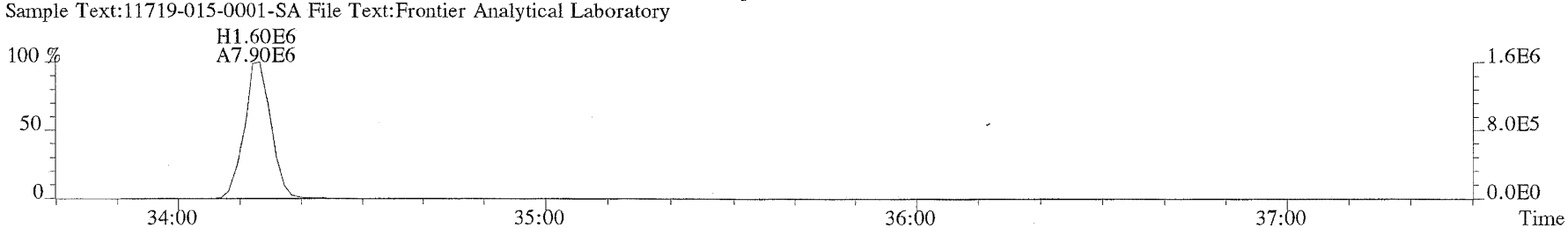
File:31JUL18Z #1-183 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



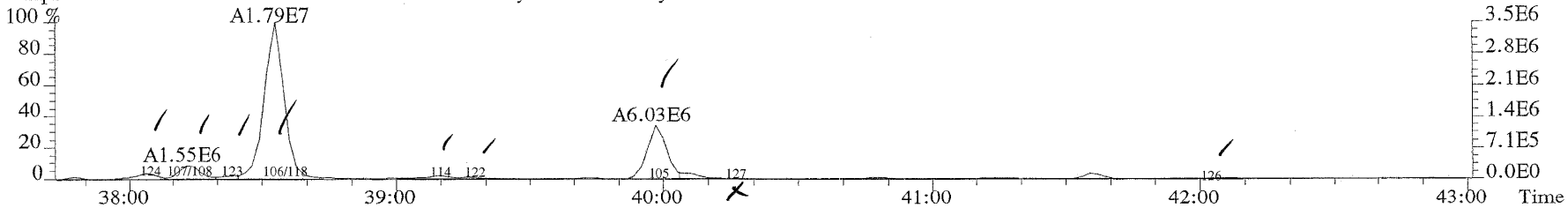
File:31JUL18Z #1-183 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



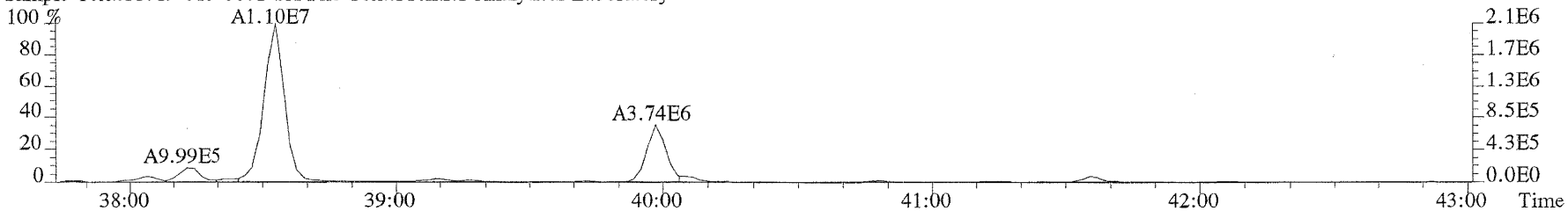
File:31JUL18Z #1-183 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



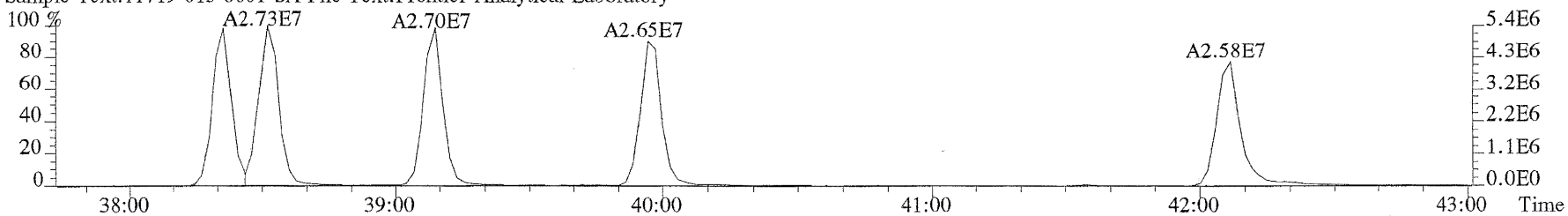
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



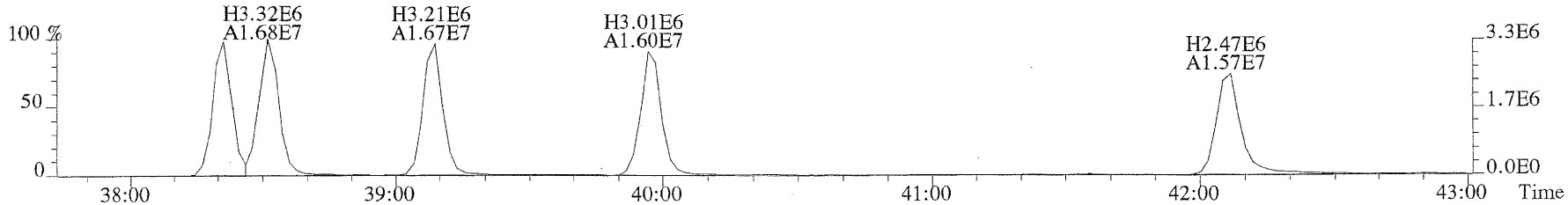
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



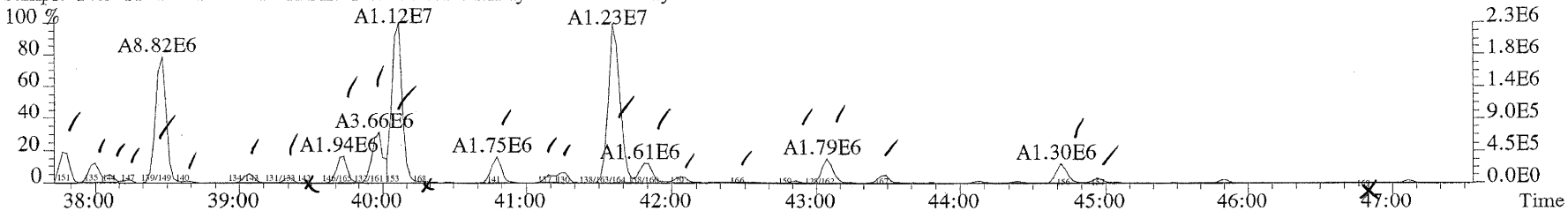
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



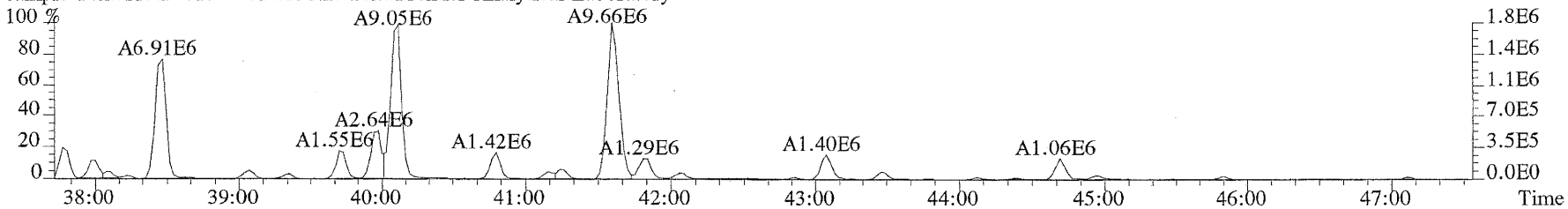
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



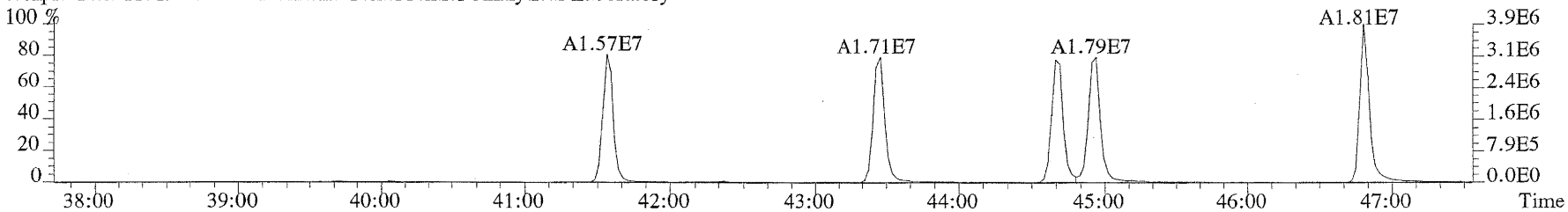
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



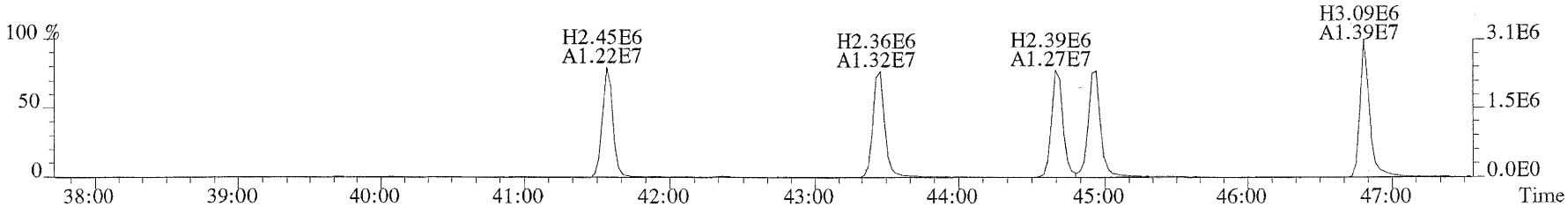
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



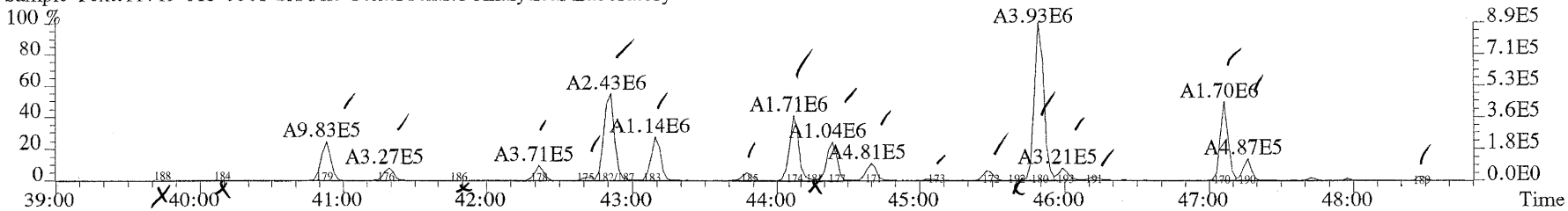
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



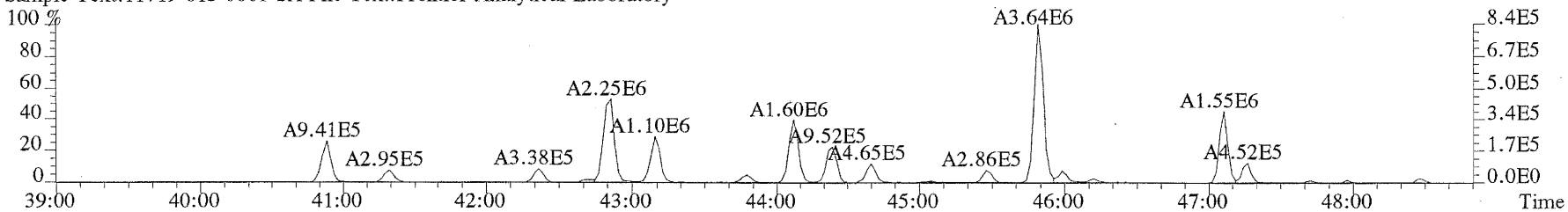
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



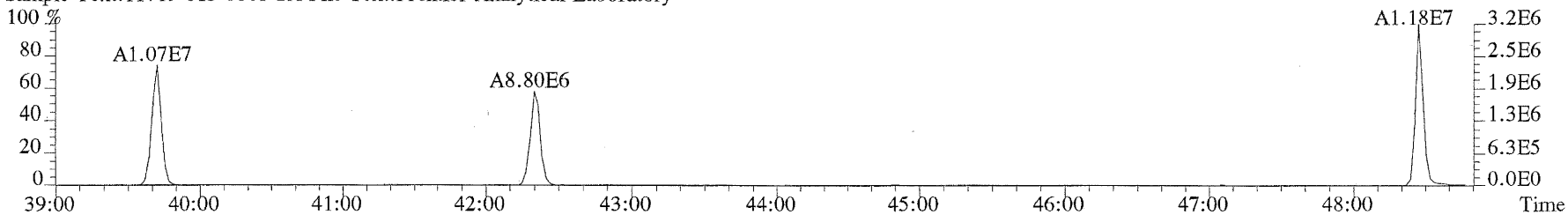
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



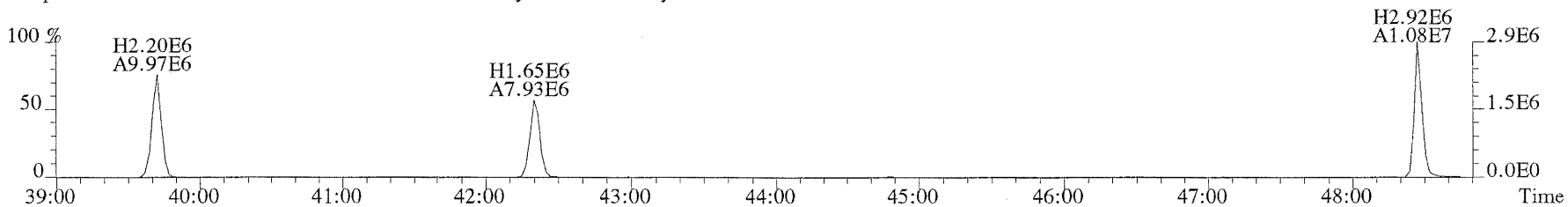
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



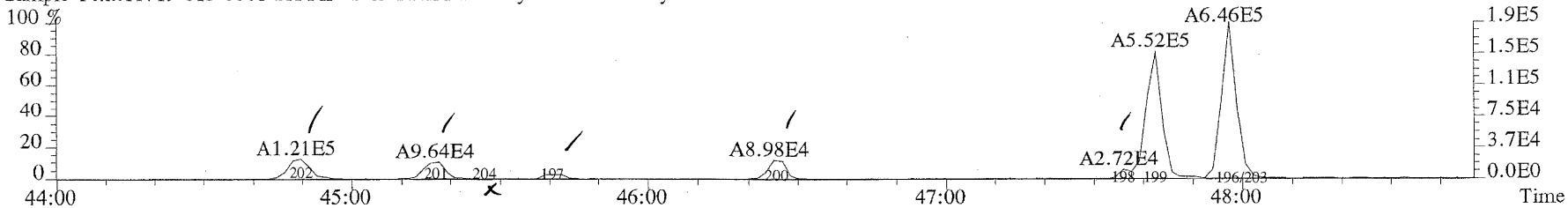
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



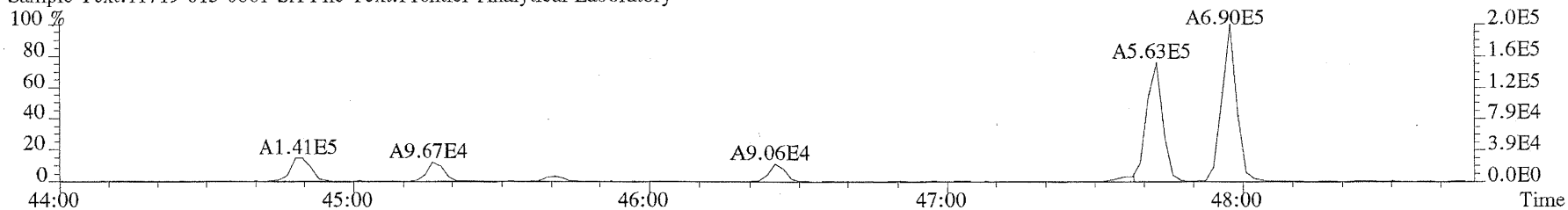
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



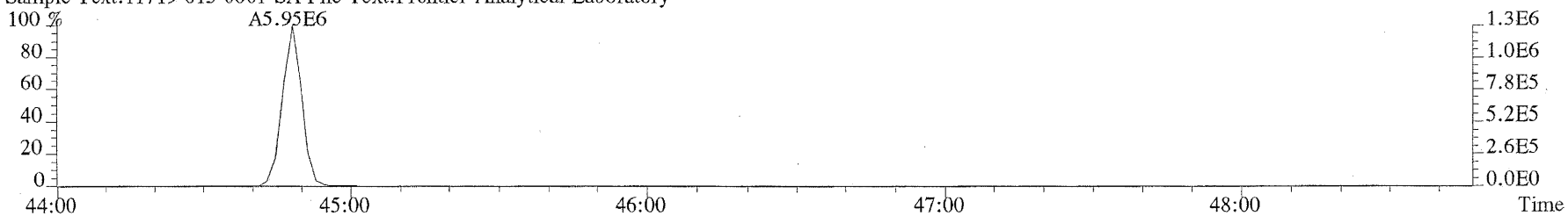
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



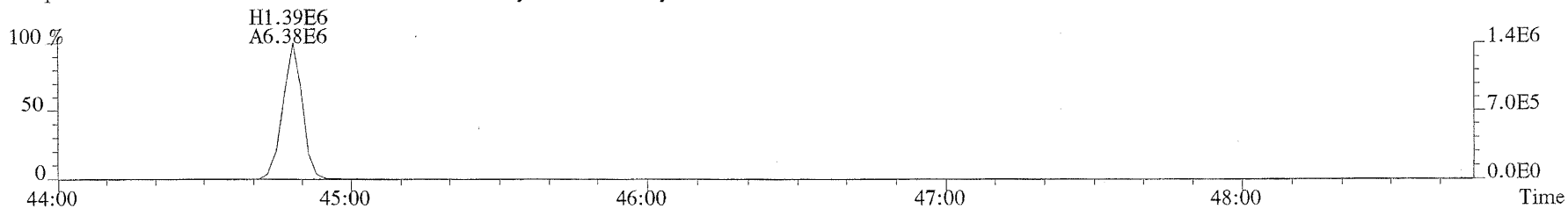
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



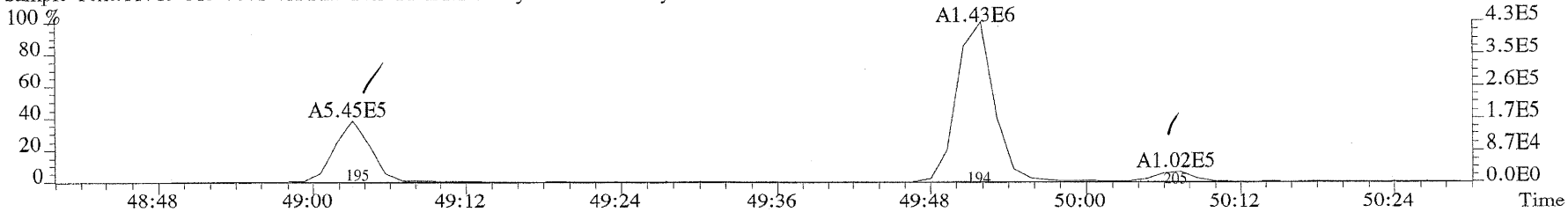
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



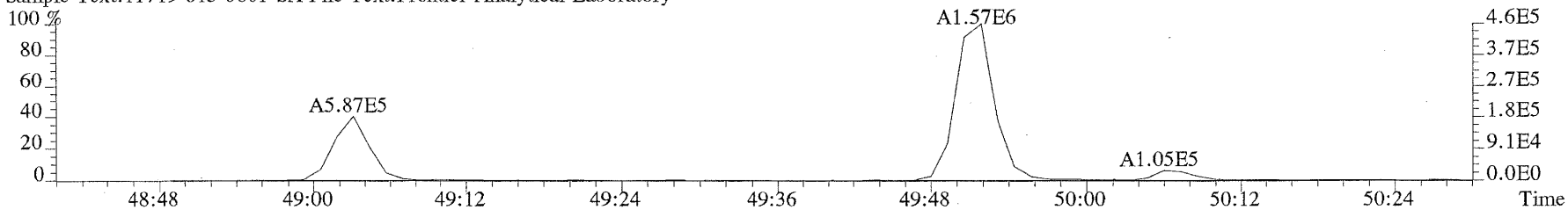
File:31JUL18Z #1-404 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



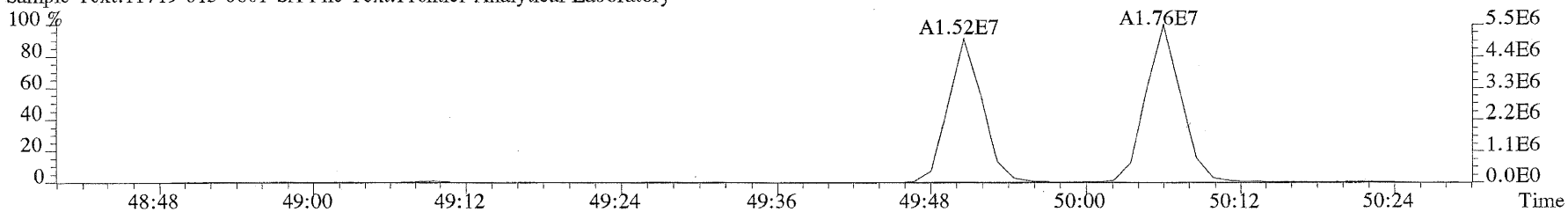
File:31JUL18Z #1-314 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



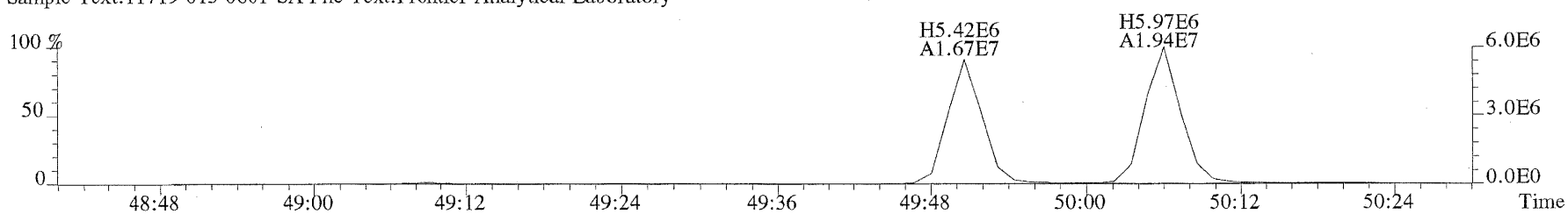
File:31JUL18Z #1-314 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



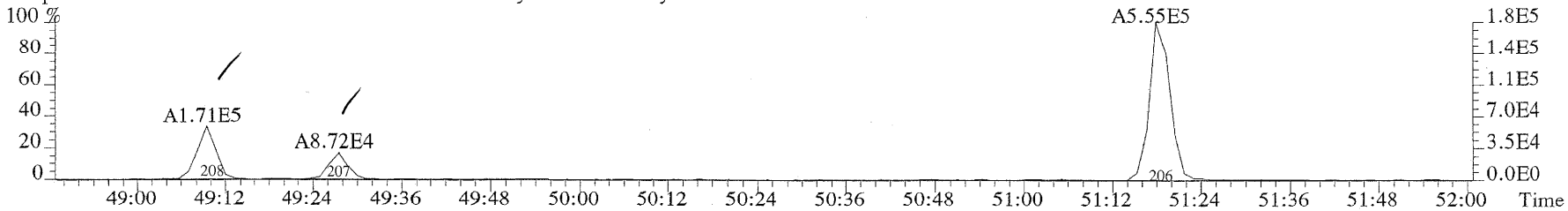
File:31JUL18Z #1-314 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



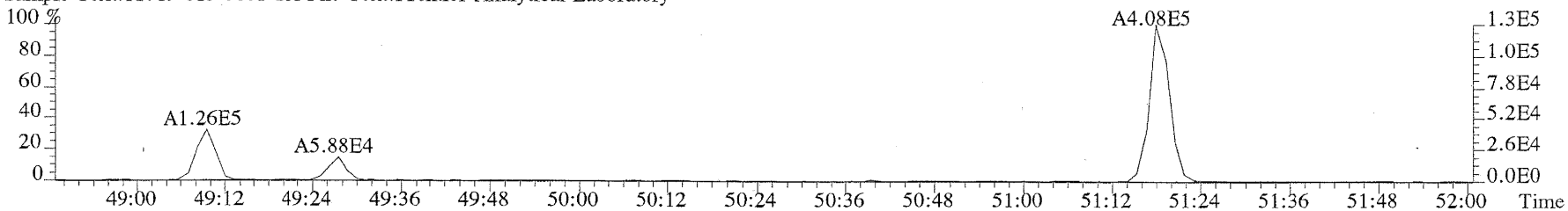
File:31JUL18Z #1-314 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



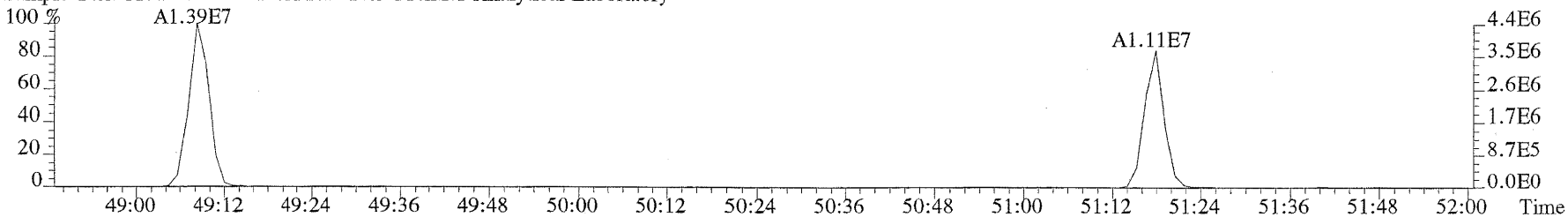
File:31JUL18Z #1-314 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



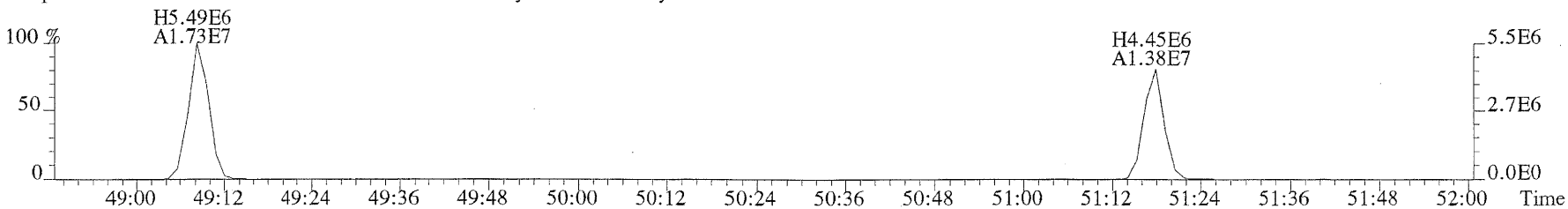
File:31JUL18Z #1-314 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



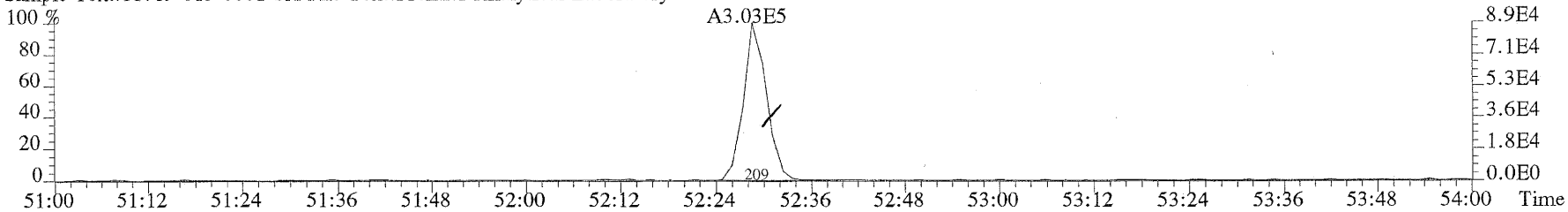
File:31JUL18Z #1-314 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



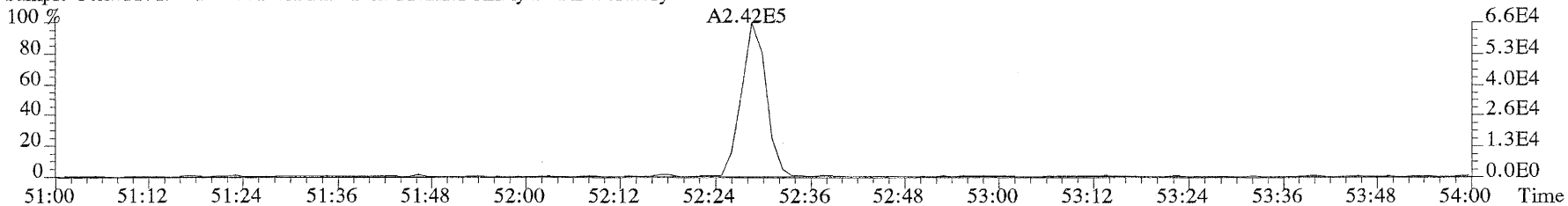
File:31JUL18Z #1-314 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



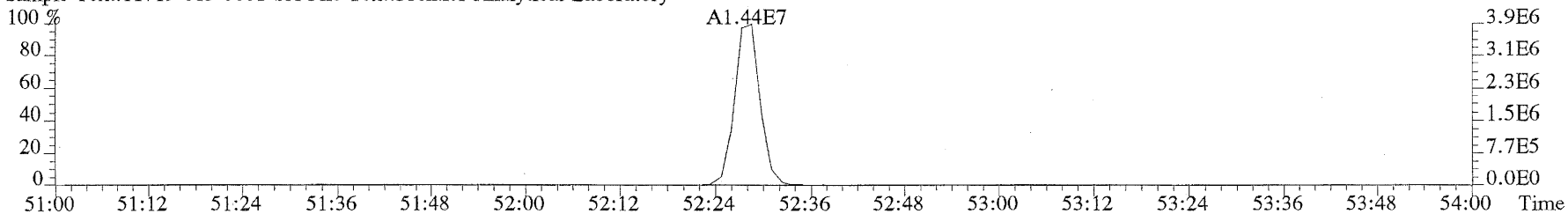
File:31JUL18Z #1-314 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



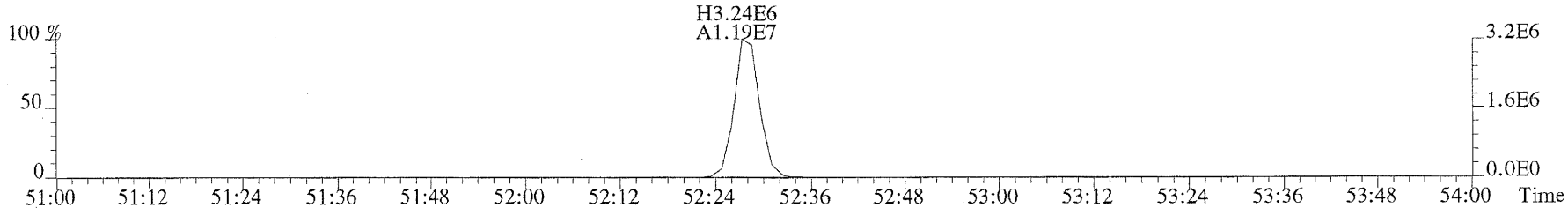
File:31JUL18Z #1-314 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-314 Acq:31-JUL-2018 21:55:44 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-015-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-016-0001-SA Filename: 01AUG18Z Sam:6 Acquired: 1-AUG-18 14:45:18 ICal: DAILY209FAL4-8-1-18
Client ID: LDW-Y1-SU-ENR+AC-CA-CORE ConCal: ST080118Z1 EndCal: ST080118Z2
Results: 11719-16 GC Column: DB1MS Amount: 5.060

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	6.07e+05	3.07 y	14:32	1.14	31.4		-	-	*			
13C-PCB-1	3.35e+07	3.09 y	14:31	1.01	1680					85.2	7.67e+06	2.41e+06
PCB-2	1.18e+05	3.37 y	16:46	1.03	6.73		-	-	*			
PCB-3	5.06e+05	3.28 y	17:00	1.13	26.4		-	-	*			
13C-PCB-3	3.36e+07	3.23 y	16:59	1.02	1670					84.4	6.84e+06	2.06e+06
PCB-4	1.45e+06	1.58 y	18:14	1.33	97.1		-	-	*			
PCB-10	1.26e+05	1.58 y	18:18	1.25	6.33		-	-	*			
13C-PCB-4	2.22e+07	1.63 y	18:12	0.66	1700					85.9	3.70e+06	2.33e+06
PCB-9	4.14e+05	1.47 y	19:56	1.37	19.0		-	-	*			
PCB-7	2.92e+05	1.40 y	19:57	1.37	13.4		-	-	*			
PCB-6	2.52e+06	1.47 y	20:33	1.33	119		-	-	*			
PCB-8	7.60e+06	1.49 y	20:56	1.38	348		-	-	*			
PCB-5	1.26e+05	1.58 y	18:18	1.38	5.74		-	-	*			
PCB-14	*	* n	NotFnd	1.29	*		569	1500	1.01			
PCB-11	2.64e+05	1.57 y	23:08	1.23	13.5		-	-	*			
PCB-13	4.01e+05	1.45 y	23:27	1.31	19.3		-	-	*			
PCB-12	4.45e+05	1.46 y	23:29	1.32	21.2		-	-	*			
PCB-15	4.71e+06	1.42 y	23:49	1.24	185		-	-	*			
13C-PCB-15	4.07e+07	1.64 y	23:47	1.05	1970					99.7	5.77e+06	3.52e+06
PCB-19	4.57e+05	1.18 y	22:08	1.14	46.5		-	-	*			
PCB-30	*	* n	NotFnd	1.57	*		660	602	0.985			
PCB-18	6.52e+06	1.06 y	23:41	1.10	692		-	-	*			
PCB-17	3.24e+06	1.06 y	23:51	1.20	314		-	-	*			
PCB-27	3.80e+05	1.09 y	24:22	1.57	28.2		-	-	*			
PCB-24	4.33e+05	1.17 y	24:23	1.55	32.5		-	-	*			
PCB-16	2.14e+06	1.04 y	24:51	1.29	193		-	-	*			
PCB-32	2.81e+06	1.10 y	24:53	1.40	233		-	-	*			
13C-PCB-19	1.70e+07	1.09 y	22:06	0.47	1830					92.8	2.10e+06	1.94e+06
13C-PCB-9	3.90e+07	1.62 y	19:54	-	8.47							
PCB-34	1.79e+05	1.09 y	25:39	1.05	9.68		-	-	*			
PCB-23	*	* n	NotFnd	1.24	*		840	790	1.25			
PCB-29	1.67e+05	1.14 y	25:58	1.21	7.85		-	-	*			
PCB-26	4.21e+06	1.06 y	26:11	1.18	204		-	-	*			
PCB-25	2.40e+06	1.04 y	26:19	1.51	90.6		-	-	*			
PCB-31	1.65e+07	1.03 y	26:40	1.23	762		-	-	*			
PCB-28	2.20e+07	1.04 y	26:46	1.43	877		-	-	*			
PCB-20	1.08e+07	1.05 y	27:21	1.25	491		-	-	*		Co-elute PCB 21/33	
PCB-21	1.08e+07	1.05 y	27:21	1.25	491		-	-	*		Co-elute PCB 20/33	
PCB-33	1.08e+07	1.05 y	27:21	1.25	491		-	-	*		Co-elute PCB 20/21	
PCB-22	6.87e+06	1.08 y	27:45	1.29	303		-	-	*			
PCB-36	*	* n	NotFnd	1.15	*		840	790	1.35			
PCB-39	*	* n	NotFnd	1.20	*		840	790	1.30			
PCB-38	8.91e+04	0.98 y	29:32	1.18	4.28		-	-	*			
PCB-35	3.28e+05	1.00 y	30:04	1.10	17.0		-	-	*			
PCB-37	5.41e+06	1.02 y	30:32	1.28	240		-	-	*			
13C-PCB-37	3.47e+07	1.09 y	30:30	1.72	1710					86.6	2.74e+06	2.43e+06

PCB-54	3.17e+04	0.73	y	25:40	1.10	2.48	J	-	-	*			
PCB-50	3.44e+04	0.87	y	26:46	0.85	3.49	J	-	-	*			
PCB-53	1.34e+06	0.80	y	27:23	0.88	131		-	-	*			
PCB-51	4.62e+05	0.73	y	27:43	0.92	43.4		-	-	*			
PCB-45	1.18e+06	0.83	y	28:07	0.76	133		-	-	*			
PCB-46	4.82e+05	0.80	y	28:35	0.74	55.9		-	-	*			
PCB-52	1.63e+07	0.80	y	29:01	1.05	1340		-	-	*	Co-elute PCB 69		
PCB-69	1.63e+07	0.80	y	29:01	1.05	1340		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.21	*		550	503	0.753			
PCB-43	1.03e+07	0.80	y	29:19	0.85	1040		-	-	*	Co-elute PCB 49		
PCB-49	1.03e+07	0.80	y	29:19	0.85	1040		-	-	*	Co-elute PCB 43		
PCB-47	3.19e+06	0.80	y	29:32	1.14	241		-	-	*			
PCB-48	2.95e+06	0.84	y	29:38	1.03	246		-	-	*	Co-elute PCB 75		
PCB-75	2.95e+06	0.84	y	29:38	1.03	246		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.09	*		550	503	0.840			
PCB-62	*	*	n	NotFnd	1.19	*		550	503	0.765			
PCB-44	8.65e+06	0.81	y	30:18	0.81	924		-	-	*			
PCB-42	3.92e+06	0.79	y	30:34	1.05	321		-	-	*	Co-elute PCB 59		
PCB-59	3.92e+06	0.79	y	30:34	1.05	321		-	-	*	Co-elute PCB 42		
PCB-72	9.02e+06	0.81	y	31:13	1.13	690		-	-	*	Co-elute PCB 41/71/64		
PCB-41	9.02e+06	0.81	y	31:13	1.13	690		-	-	*	Co-elute PCB 72/71/64		
PCB-71	9.02e+06	0.81	y	31:13	1.13	690		-	-	*	Co-elute PCB 72/41/64		
PCB-64	9.02e+06	0.81	y	31:13	1.13	690		-	-	*	Co-elute PCB 72/41/71		
PCB-68	1.34e+05	0.88	y	31:30	1.24	9.27		-	-	*			
PCB-40	1.03e+06	0.84	y	31:41	0.71	125		-	-	*			
PCB-57	1.03e+05	0.80	y	31:54	1.11	7.99		-	-	*			
PCB-67	5.36e+05	0.82	y	32:10	1.10	42.1		-	-	*			
PCB-58	7.29e+04	0.77	y	32:16	1.13	5.54		-	-	*			
PCB-63	6.07e+05	0.79	y	32:26	1.17	44.7		-	-	*			
PCB-74	7.21e+06	0.83	y	32:41	1.19	523		-	-	*			
PCB-61	1.69e+07	0.81	y	32:53	1.22	1190		-	-	*	Co-elute PCB 70		
PCB-70	1.69e+07	0.81	y	32:53	1.22	1190		-	-	*	Co-elute PCB 61		
PCB-76	1.49e+07	0.81	y	33:05	1.17	1090		-	-	*	Co-elute PCB 66		
PCB-66	1.49e+07	0.81	y	33:05	1.17	1090		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.31	*		550	503	0.696			
PCB-55	3.05e+05	0.80	y	33:36	1.16	22.6		-	-	*			
13C-PCB-54	2.30e+07	0.83	y	25:39	1.13	1720					87.0	2.57e+06	3.13e+06
PCB-104	*	*	n	NotFnd	1.22	*		324	284	0.744			
PCB-96	1.32e+05	1.53	y	31:28	1.08	14.4		-	-	*			
PCB-103	2.79e+05	1.74	y	31:53	0.92	35.7		-	-	*			
PCB-100	9.20e+04	1.36	y	32:12	0.95	11.4		-	-	*			
PCB-94	6.18e+04	1.70	y	32:37	0.79	9.23		-	-	*			
PCB-98	*	*	n	NotFnd	0.97	*		324	284	0.933	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.97	*		324	284	0.933	Co-elute PCB 98		
PCB-95	1.15e+07	1.61	y	33:08	0.89	1530		-	-	*			
PCB-93	*	*	n	NotFnd	0.78	*		324	284	1.16			
PCB-88	1.91e+06	1.67	y	33:32	0.84	268		-	-	*	Co-elute PCB 91		
PCB-91	1.91e+06	1.67	y	33:32	0.84	268		-	-	*	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.19	*		324	284	0.762			
13C-PCB-104	1.68e+07	1.59	y	30:07	0.71	2010					102	2.02e+06	1.28e+06
13C-PCB-28	4.04e+07	1.09	y	26:45	1.98	1730					87.7	4.42e+06	4.11e+06
13C-PCB-52	2.33e+07	0.80	y	29:00	-	9.97							

PCB-56	9.75e+06	0.77	y	34:03	1.08	644		-	-	*		Co-elute PCB 60
PCB-60	9.75e+06	0.77	y	34:03	1.08	644		-	-	*		Co-elute PCB 56
PCB-79	2.84e+05	0.70	y	35:04	1.14	17.6		-	-	*		
PCB-78	*	*	n	NotFnd	1.15	*		580	640	1.05		
PCB-81	4.39e+05	0.75	y	36:13	1.20	27.0		-	-	*		
13C-PCB-81	2.68e+07	0.81	y	36:12	1.61	1840					93.1	2.15e+06 2.72e+06
PCB-77	1.75e+06	0.80	y	36:47	1.17	103		-	-	*		
13C-PCB-77	2.89e+07	0.82	y	36:46	1.65	1940					97.9	2.29e+06 2.88e+06
PCB-155	*	*	n	NotFnd	1.13	*		280	188	0.595		
PCB-150	5.37e+04	1.35	y	35:29	1.02	6.75		-	-	*		
PCB-152	2.41e+04	1.29	y	35:57	0.98	3.15	J	-	-	*		
PCB-145	*	*	n	NotFnd	0.99	*		280	188	0.675		
PCB-136	3.00e+06	1.29	y	36:39	0.95	406		-	-	*		
PCB-148	*	*	n	NotFnd	0.76	*		280	188	0.882		
PCB-154	3.82e+05	1.35	y	37:13	0.90	54.5		-	-	*		
13C-PCB-155	1.54e+07	1.25	y	34:16	0.97	1750					88.6	1.90e+06 1.54e+06
13C-PCB-111	2.17e+07	1.58	y	36:21	1.24	1940					98.3	2.59e+06 1.66e+06
13C-PCB-101	1.79e+07	1.58	y	34:42	-	9.41						
PCB-84	7.87e+06	1.57	y	34:22	0.60	1070		-	-	*		Co-elute PCB 92
PCB-92	7.87e+06	1.57	y	34:22	0.60	1070		-	-	*		Co-elute PCB 84
PCB-89	2.27e+05	1.54	y	34:33	0.59	31.1		-	-	*		
PCB-90	2.12e+07	1.59	y	34:44	0.68	2510		-	-	*		Co-elute PCB 101
PCB-101	2.12e+07	1.59	y	34:44	0.68	2510		-	-	*		Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.79	*		654	456	1.45		
PCB-99	1.01e+07	1.64	y	35:03	0.75	1090		-	-	*		
PCB-119	7.77e+05	1.62	y	35:29	0.84	75.0		-	-	*		
PCB-83	1.04e+06	1.57	y	35:38	0.69	122		-	-	*		Co-elute PCB 112
PCB-112	1.04e+06	1.57	y	35:38	0.69	122		-	-	*		Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.90	*		654	456	1.28		
PCB-97	5.80e+06	1.62	y	35:58	0.74	637		-	-	*		
PCB-86	*	*	n	NotFnd	0.65	*		654	456	1.76		
PCB-125	7.93e+06	1.56	y	36:13	0.76	846		-	-	*		Co-elute PCB 87/117
PCB-87	7.93e+06	1.56	y	36:13	0.76	846		-	-	*		Co-elute PCB 125/117
PCB-117	7.93e+06	1.56	y	36:13	0.76	846		-	-	*		Co-elute PCB 125/87
PCB-111	4.85e+05	1.55	y	36:22	1.02	38.4		-	-	*		Co-elute PCB 115
PCB-115	4.85e+05	1.55	y	36:22	1.02	38.4		-	-	*		Co-elute PCB 111
PCB-85	3.28e+06	1.57	y	36:29	0.71	372		-	-	*		Co-elute PCB 116
PCB-116	3.28e+06	1.57	y	36:29	0.71	372		-	-	*		Co-elute PCB 85
PCB-120	5.27e+04	1.41	y	36:39	0.86	4.96		-	-	*		
PCB-110	2.64e+07	1.59	y	36:51	1.00	2140		-	-	*		
PCB-82	1.80e+06	1.53	y	37:27	0.50	289		-	-	*		
PCB-124	1.15e+06	1.47	y	38:06	1.04	89.1		-	-	*		
PCB-108	2.12e+06	1.64	y	38:16	1.05	165		-	-	*		Co-elute PCB 107
PCB-107	2.12e+06	1.64	y	38:16	1.05	165		-	-	*		Co-elute PCB 108
PCB-123	4.91e+05	1.43	y	38:24	1.45	28.3		-	-	*		
13C-PCB-123	2.37e+07	1.58	y	38:24	1.31	1900					96.3	2.76e+06 1.76e+06
PCB-118	2.77e+07	1.53	y	38:36	1.05	1990		-	-	*		Co-elute PCB 106
PCB-106	2.77e+07	1.53	y	38:36	1.05	1990		-	-	*		Co-elute PCB 118
13C-PCB-118	2.61e+07	1.59	y	38:34	1.57	1750					88.6	3.26e+06 2.07e+06
PCB-114	6.61e+05	1.43	y	39:12	1.13	50.9		-	-	*		
13C-PCB-114	2.26e+07	1.57	y	39:10	1.46	1640					82.9	2.47e+06 1.56e+06
PCB-122	3.23e+05	1.60	y	39:19	1.12	23.4		-	-	*		
PCB-105	1.13e+07	1.50	y	40:01	1.12	799		-	-	*		
13C-PCB-105	2.51e+07	1.63	y	40:00	1.43	1850					93.5	3.27e+06 2.02e+06

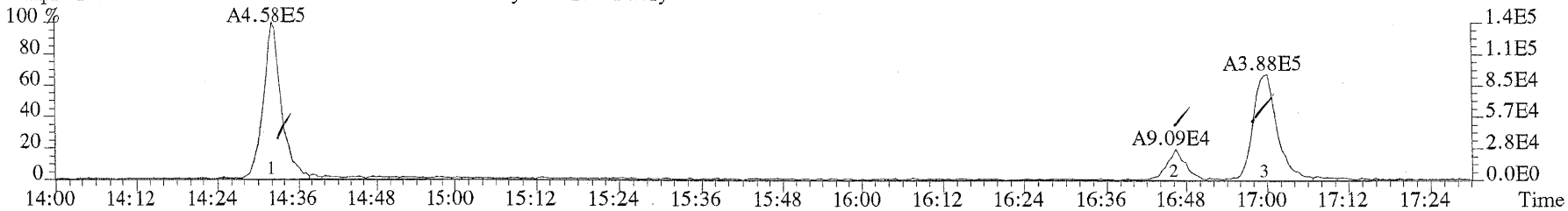
PCB-127	*	*	n	NotFnd	1.06	*	710	676	1.35			
PCB-126	1.23e+05	1.38	y	42:07	1.15	8.86	-	-	*			
13C-PCB-126	2.38e+07	1.59	y	42:08	1.37	1830				92.7	2.54e+06	1.56e+06
PCB-151	4.67e+06	1.26	y	37:50	0.66	664	-	-	*			
PCB-135	2.85e+06	1.26	y	38:01	0.76	354	-	-	*			
PCB-144	1.05e+06	1.31	y	38:08	0.75	132	-	-	*			
PCB-147	4.43e+05	1.41	y	38:16	0.85	49.1	-	-	*			
PCB-139	1.88e+07	1.24	y	38:29	0.86	2070	-	-	*	Co-elute PCB 149		
PCB-149	1.88e+07	1.24	y	38:29	0.86	2070	-	-	*	Co-elute PCB 139		
PCB-140	1.95e+05	1.29	y	38:41	0.86	21.4	-	-	*			
PCB-143	1.11e+06	1.15	y	39:07	0.81	129	-	-	*	Co-elute PCB 134		
PCB-134	1.11e+06	1.15	y	39:07	0.81	129	-	-	*	Co-elute PCB 143		
PCB-131	6.85e+05	1.33	y	39:22	0.81	80.3	-	-	*	Co-elute PCB 133		
PCB-133	6.85e+05	1.33	y	39:22	0.81	80.3	-	-	*	Co-elute PCB 131		
PCB-142	*	*	n	NotFnd	0.74	*	456	390	1.43			
PCB-165	4.14e+06	1.24	y	39:45	0.98	398	-	-	*	Co-elute PCB 146		
PCB-146	4.14e+06	1.24	y	39:45	0.98	398	-	-	*	Co-elute PCB 165		
PCB-161	6.80e+06	1.25	y	40:00	0.89	724	-	-	*	Co-elute PCB 132		
PCB-132	6.80e+06	1.25	y	40:00	0.89	724	-	-	*	Co-elute PCB 161		
PCB-153	2.46e+07	1.25	y	40:08	0.98	2370	-	-	*			
PCB-168	*	*	n	NotFnd	1.12	*	456	390	0.940			
PCB-141	4.03e+06	1.25	y	40:49	0.86	442	-	-	*			
PCB-137	9.18e+05	1.27	y	41:12	0.77	113	-	-	*			
PCB-130	1.55e+06	1.24	y	41:17	0.86	170	-	-	*			
PCB-138	2.68e+07	1.25	y	41:39	1.09	2320	-	-	*	Co-elute PCB 163/164		
PCB-163	2.68e+07	1.25	y	41:39	1.09	2320	-	-	*	Co-elute PCB 138/164		
PCB-164	2.68e+07	1.25	y	41:39	1.09	2320	-	-	*	Co-elute PCB 138/163		
PCB-158	3.14e+06	1.27	y	41:52	1.13	263	-	-	*	Co-elute PCB 160		
PCB-160	3.14e+06	1.27	y	41:52	1.13	263	-	-	*	Co-elute PCB 158		
PCB-129	9.15e+05	1.19	y	42:07	0.73	119	-	-	*			
PCB-166	1.24e+05	1.28	y	42:33	1.05	11.1	-	-	*			
PCB-159	2.99e+05	1.15	y	42:53	1.11	25.4	-	-	*			
PCB-128	3.92e+06	1.24	y	43:06	0.95	388	-	-	*	Co-elute PCB 162		
PCB-162	3.92e+06	1.24	y	43:06	0.95	388	-	-	*	Co-elute PCB 128		
PCB-167	1.18e+06	1.25	y	43:31	1.05	109	-	-	*			
13C-PCB-167	2.04e+07	1.28	y	43:29	1.17	1840				93.2	2.13e+06	1.67e+06
PCB-156	3.02e+06	1.22	y	44:43	1.06	273	-	-	*			
13C-PCB-156	2.06e+07	1.29	y	44:43	1.12	1940				98.2	2.21e+06	1.71e+06
PCB-157	6.61e+05	1.24	y	44:59	1.13	53.9	-	-	*			
13C-PCB-157	2.14e+07	1.29	y	44:58	1.21	1870				94.7	2.30e+06	1.83e+06
PCB-169	*	*	n	NotFnd	1.04	*	456	390	1.01			
13C-PCB-169	2.13e+07	1.26	y	46:50	1.13	1990				101	2.19e+06	1.78e+06

FAL ID: 11719-016-0001-SA Filename: 01AUG18Z Sam:6 Acquired: 1-AUG-18 14:45:18 ICal: DAILY209FAL4-8-1-18
Client ID: LDW-Y1-SU-ENR+AC-CA-CORE ConCal: ST080118Z1 EndCal: ST080118Z2
Results: 11719-16 GC Column: DB1MS Amount: 5.060

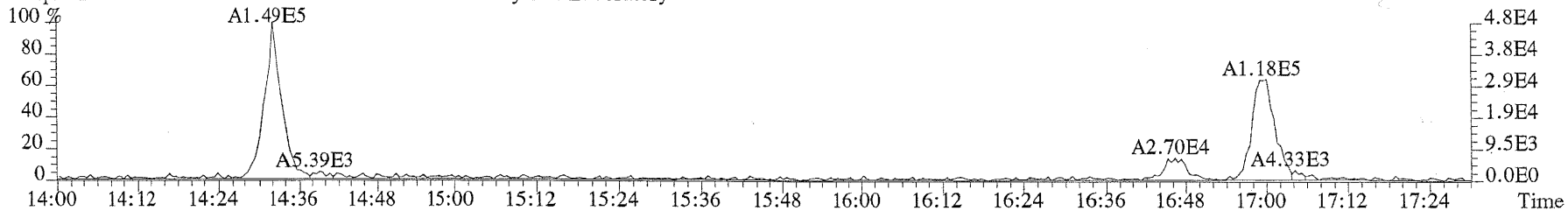
PCB-188	*	*	n	NotFnd	1.14	*	321	292	0.738				
13C-PCB-188	1.70e+07	1.10	y	39:45	0.95	1890				95.6	1.87e+06	1.74e+06	
PCB-184	*	*	n	NotFnd	1.18	*	321	292	0.721				
PCB-179	3.01e+06	1.02	y	40:56	1.09	327	-	-	*				
PCB-176	9.45e+05	1.05	y	41:22	1.07	105	-	-	*				
PCB-186	*	*	n	NotFnd	1.08	*	321	292	0.789				
PCB-178	1.03e+06	1.05	y	42:23	0.78	156	-	-	*				
PCB-175	2.06e+05	0.99	y	42:44	0.81	30.2	-	-	*				
PCB-187	6.81e+06	1.06	y	42:53	0.93	873	-	-	*		Co-elute PCB 182		
PCB-182	6.81e+06	1.06	y	42:53	0.93	873	-	-	*		Co-elute PCB 187		
PCB-183	3.31e+06	1.07	y	43:11	0.90	437	-	-	*				
PCB-185	5.51e+05	1.06	y	43:49	0.85	77.4	-	-	*				
PCB-174	5.01e+06	1.05	y	44:10	0.88	676	-	-	*				
PCB-181	*	*	n	NotFnd	0.83	*	321	292	1.02				
PCB-177	2.89e+06	1.03	y	44:25	0.73	469	-	-	*				
PCB-171	1.37e+06	1.08	y	44:41	0.81	200	-	-	*				
PCB-173	1.03e+05	1.06	y	45:06	0.75	16.4	-	-	*				
PCB-172	8.28e+05	1.02	y	45:31	0.75	132	-	-	*				
PCB-192	*	*	n	NotFnd	1.02	*	321	292	0.830				
PCB-180	1.11e+07	1.05	y	45:50	1.06	1240	-	-	*				
PCB-193	8.72e+05	1.10	y	46:00	1.07	96.6	-	-	*				
PCB-191	2.69e+05	1.01	y	46:13	1.03	31.1	-	-	*				
PCB-170	4.48e+06	1.03	y	47:08	0.73	729	-	-	*				
PCB-190	1.44e+06	1.11	y	47:18	1.00	171	-	-	*				
PCB-189	2.32e+05	1.11	y	48:30	1.10	25.5	-	-	*				
13C-PCB-189	1.63e+07	1.10	y	48:28	0.88	1940				98.4	1.82e+06	1.68e+06	
PCB-202	5.00e+05	0.94	y	44:51	0.97	88.2	-	-	*				
PCB-201	3.71e+05	0.84	y	45:19	0.92	69.1	-	-	*				
PCB-204	*	*	n	NotFnd	0.97	*	148	280	0.925				
PCB-197	1.15e+05	0.99	y	45:42	1.02	19.3	-	-	*				
PCB-200	3.47e+05	0.94	y	46:28	0.94	63.3	-	-	*				
PCB-198	1.00e+05	0.90	y	47:39	0.65	26.5	-	-	*				
PCB-199	2.03e+06	0.92	y	47:44	0.77	449	-	-	*				
PCB-203	2.41e+06	0.89	y	47:59	0.79	524	-	-	*		Co-elute PCB 196		
PCB-196	2.41e+06	0.89	y	47:59	0.79	524	-	-	*		Co-elute PCB 203		
13C-PCB-202	1.16e+07	0.92	y	44:50	0.69	1760				89.1	1.12e+06	1.24e+06	
13C-PCB-178	1.31e+07	1.12	y	42:23	0.73	1910				96.5	1.49e+06	1.33e+06	
13C-PCB-138	1.87e+07	1.28	y	41:37	-	9.23							
PCB-195	1.36e+06	0.93	y	49:04	0.75	173	-	-	*				
PCB-194	3.50e+06	0.89	y	49:53	0.82	407	-	-	*				
PCB-205	2.45e+05	0.88	y	50:08	1.11	21.0	-	-	*				
13C-PCB-205	2.07e+07	0.93	y	50:07	1.30	1810				91.4	2.74e+06	3.03e+06	
PCB-208	3.96e+05	1.41	y	49:12	0.99	51.0	-	-	*				
13C-PCB-208	1.55e+07	0.81	y	49:11	1.11	1590				80.4	2.09e+06	2.55e+06	
PCB-207	1.89e+05	1.39	y	49:29	1.00	26.1	-	-	*				
PCB-206	1.13e+06	1.33	y	51:20	1.02	167	-	-	*				
13C-PCB-206	1.32e+07	0.80	y	51:19	0.87	1710				86.7	1.58e+06	2.02e+06	
PCB-209	1.12e+06	1.19	y	52:31	1.09	130	-	-	*				
13C-PCB-209	1.56e+07	1.21	y	52:30	1.03	1720				87.2	2.60e+06	2.14e+06	
13C-PCB-194	1.74e+07	0.94	y	49:52	-	8.62							

Analyst: _____ Date: 8/20/18

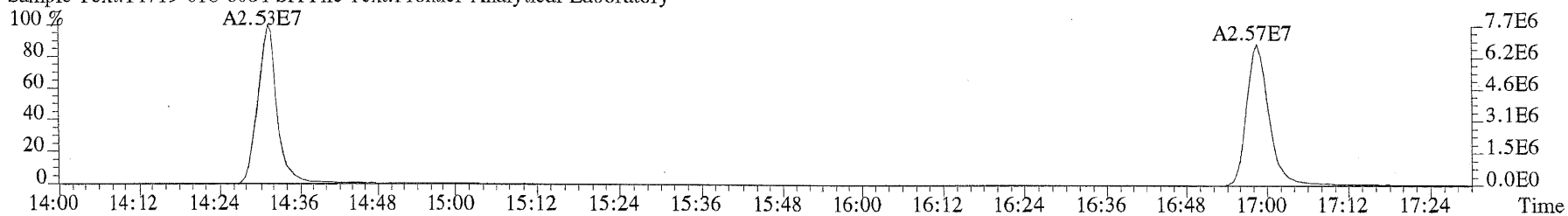
File:01AUG18Z #1-784 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



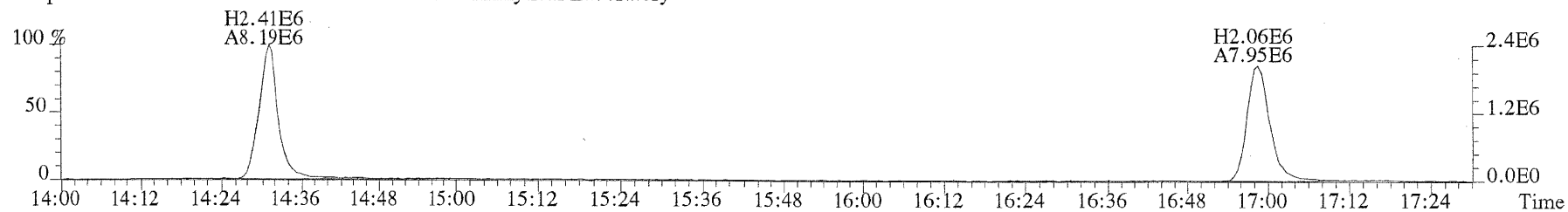
File:01AUG18Z #1-784 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



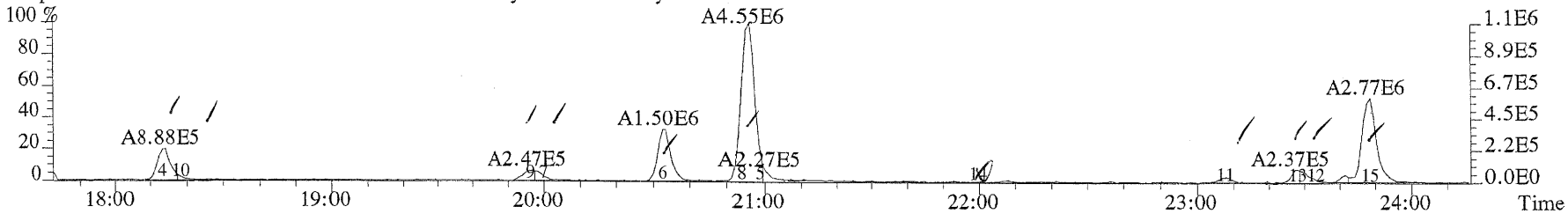
File:01AUG18Z #1-784 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



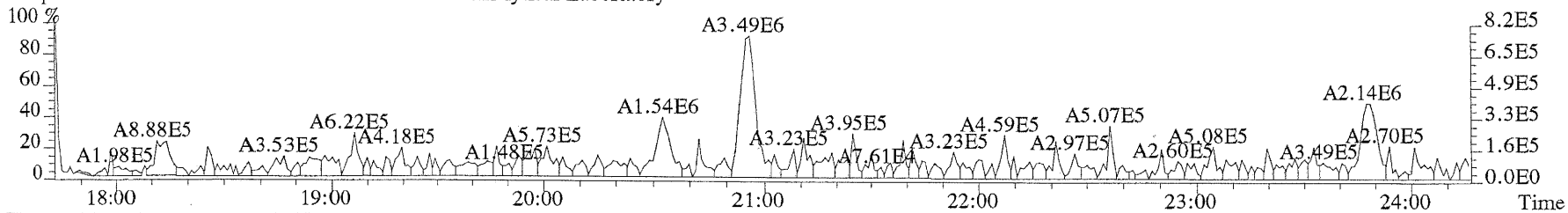
File:01AUG18Z #1-784 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



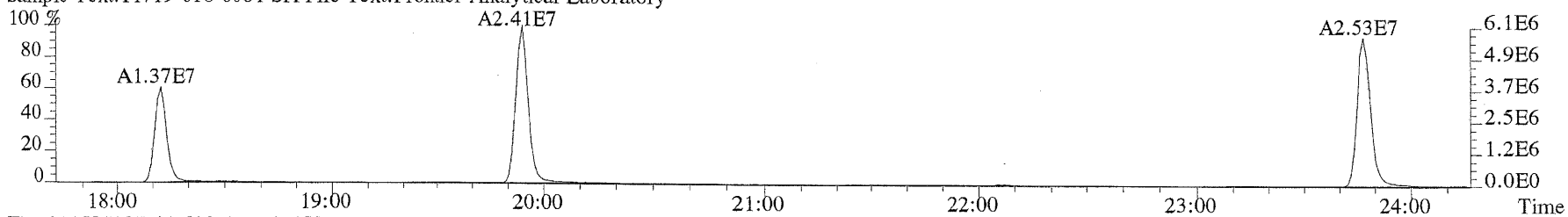
File:01AUG18Z #1-520 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



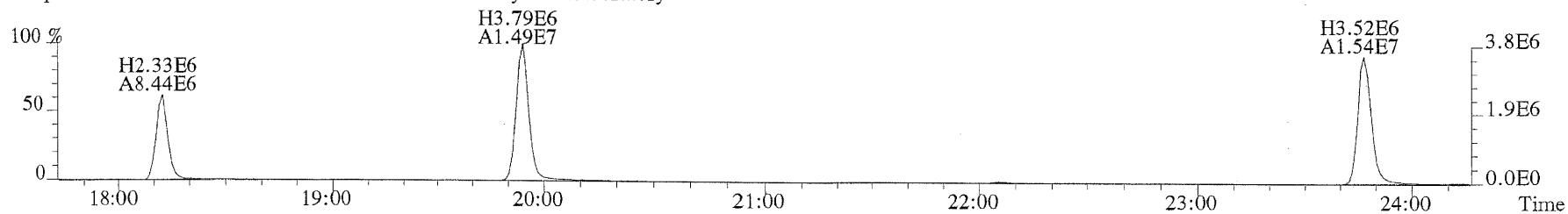
File:01AUG18Z #1-520 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



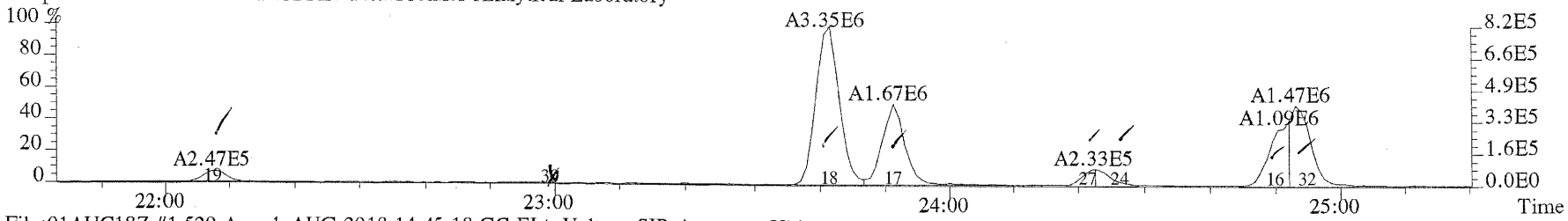
File:01AUG18Z #1-520 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



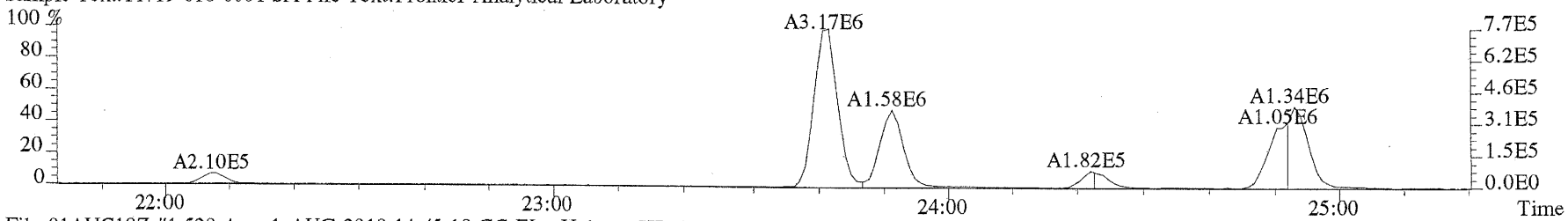
File:01AUG18Z #1-520 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



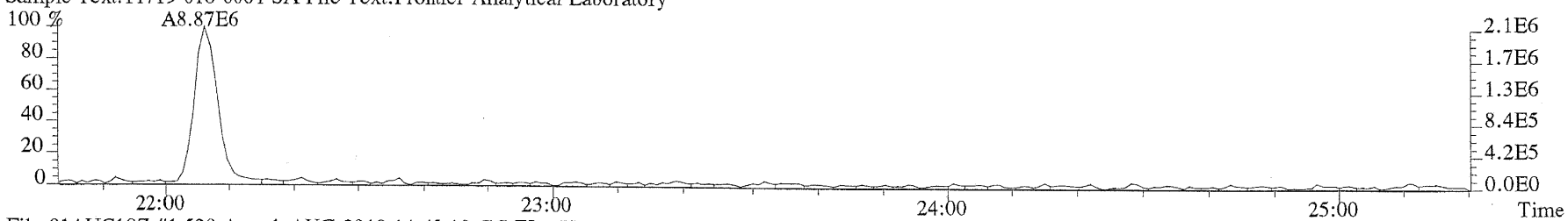
File:01AUG18Z #1-520 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



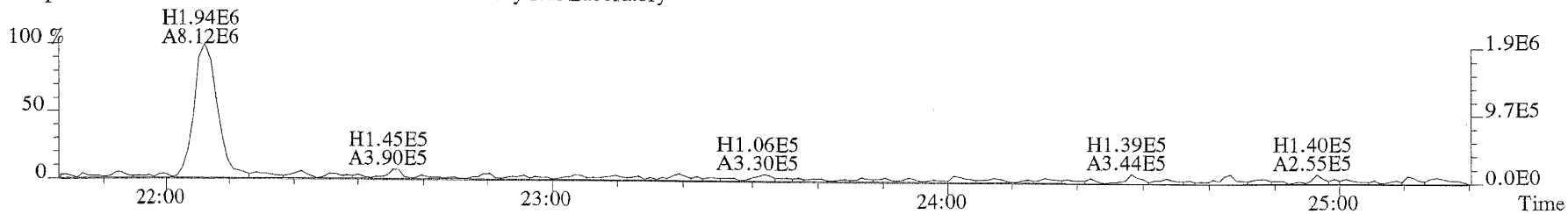
File:01AUG18Z #1-520 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



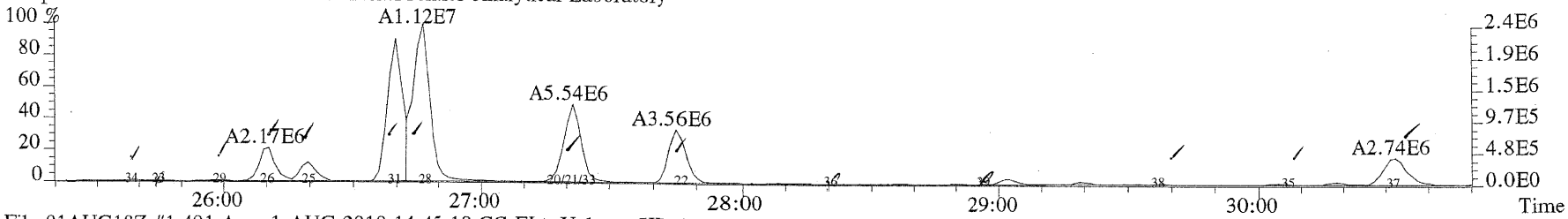
File:01AUG18Z #1-520 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



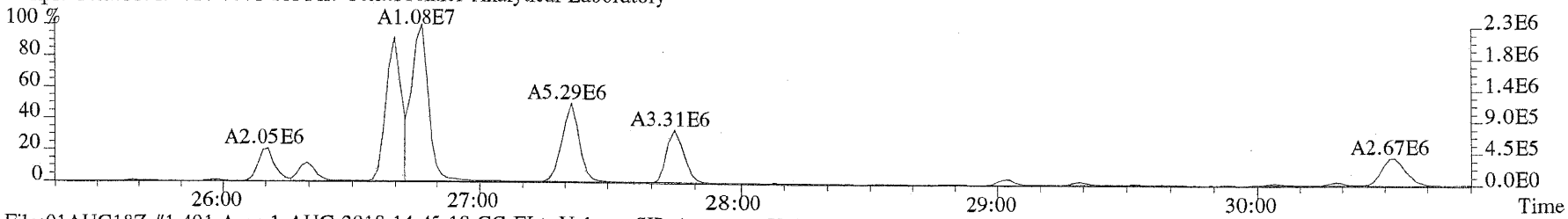
File:01AUG18Z #1-520 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



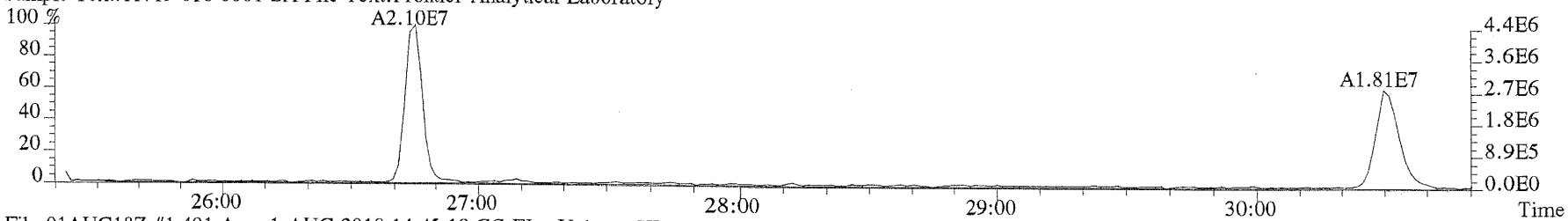
File:01AUG18Z #1-401 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



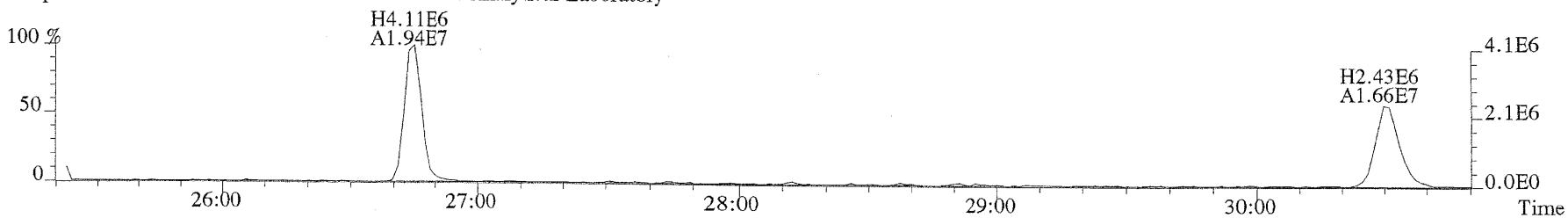
File:01AUG18Z #1-401 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



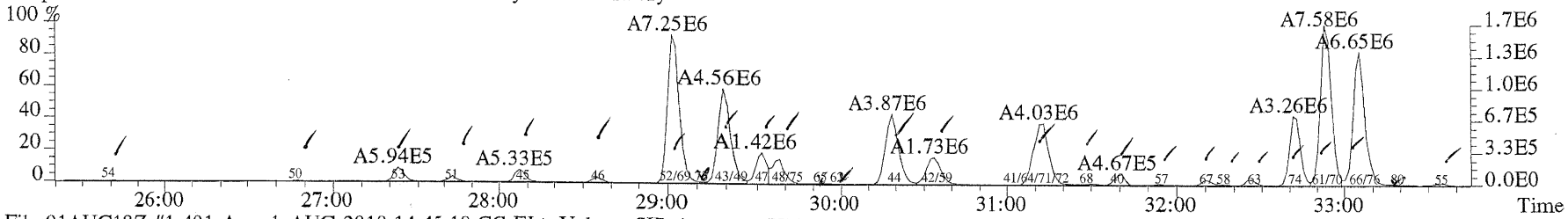
File:01AUG18Z #1-401 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



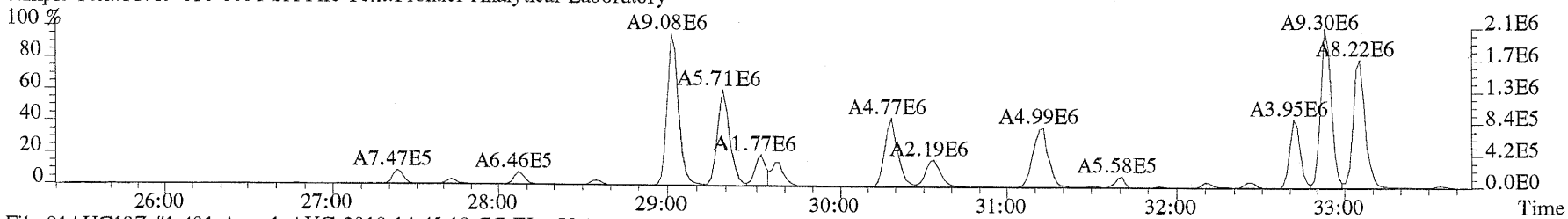
File:01AUG18Z #1-401 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



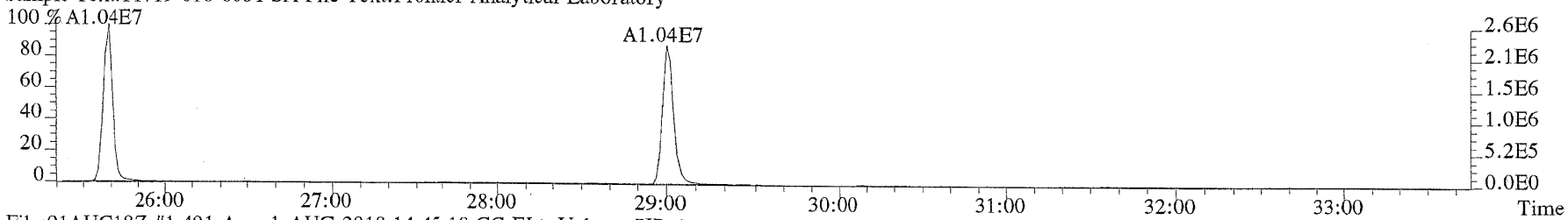
File:01AUG18Z #1-401 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



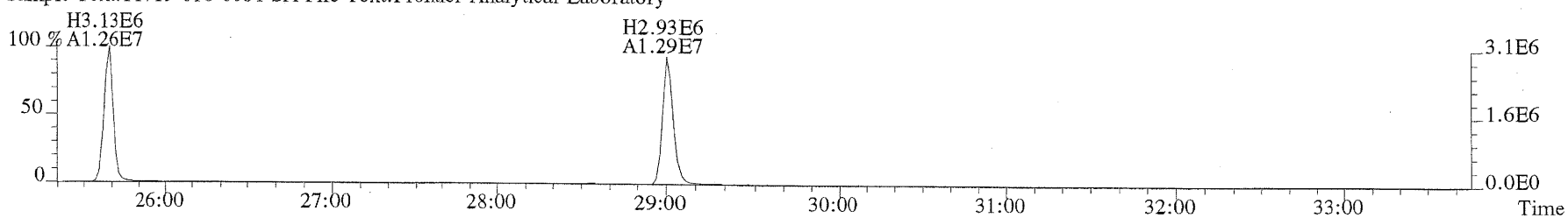
File:01AUG18Z #1-401 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



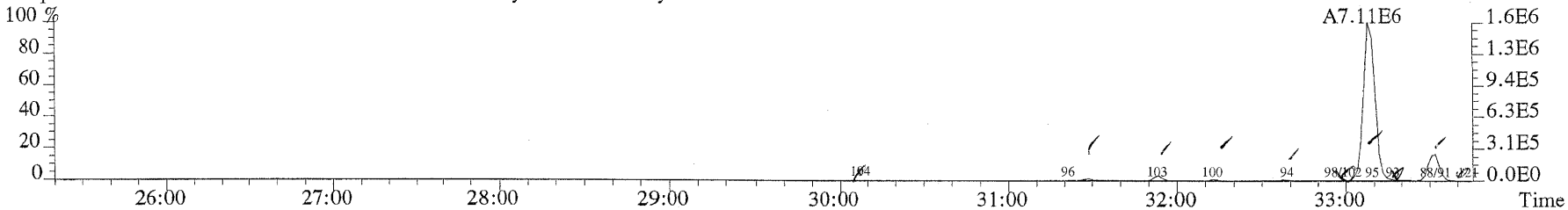
File:01AUG18Z #1-401 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



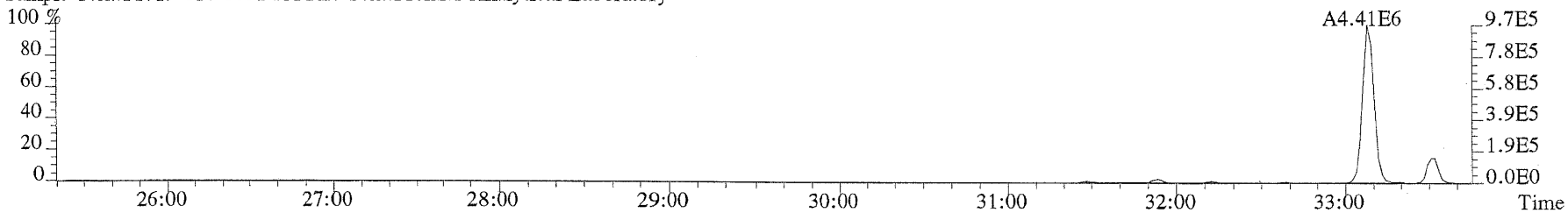
File:01AUG18Z #1-401 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



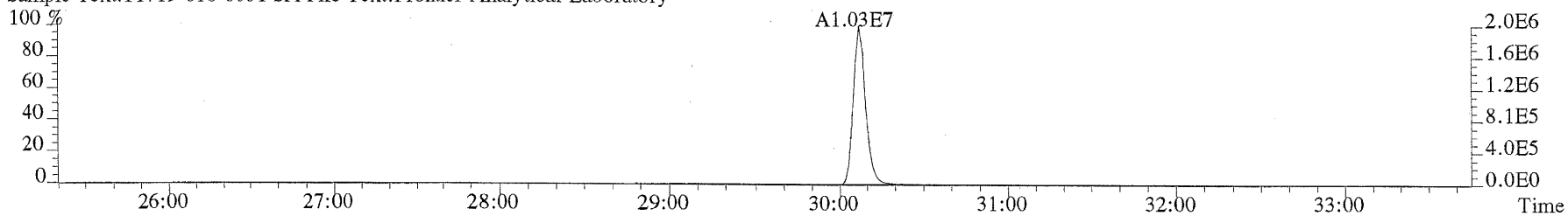
File:01AUG18Z #1-401 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



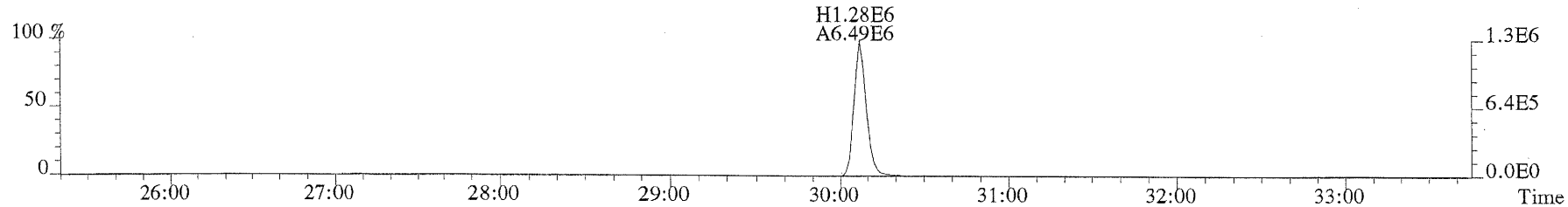
File:01AUG18Z #1-401 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



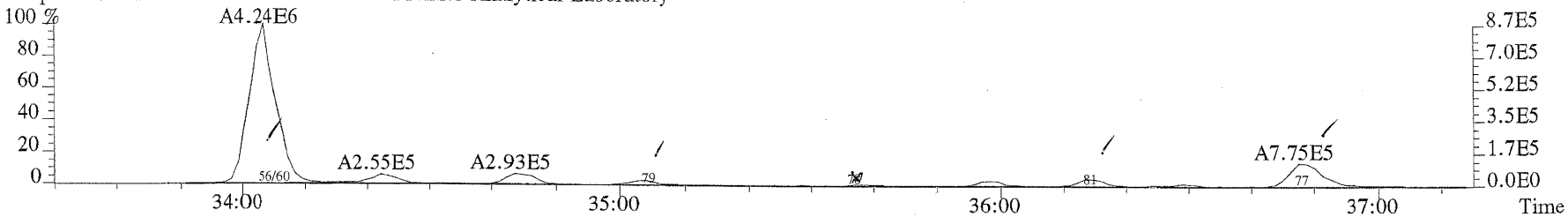
File:01AUG18Z #1-401 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



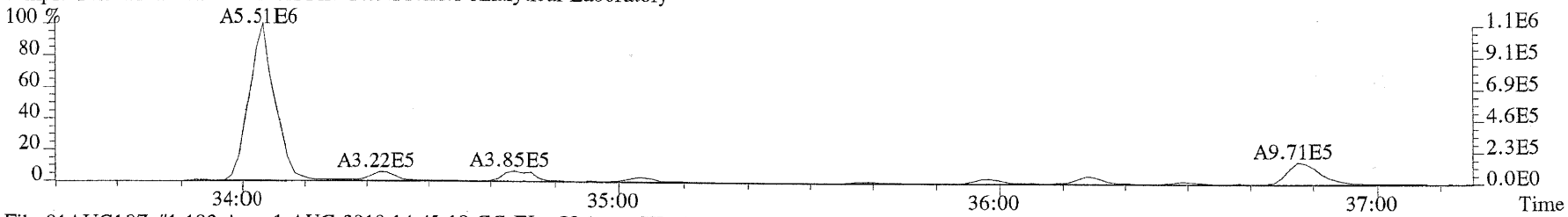
File:01AUG18Z #1-401 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



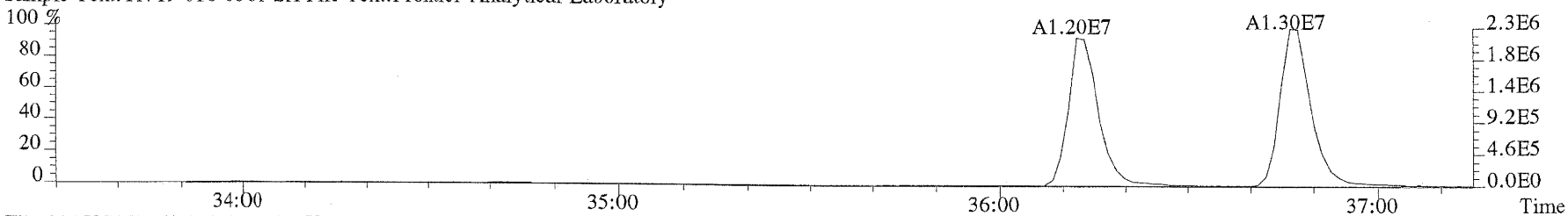
File:01AUG18Z #1-183 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



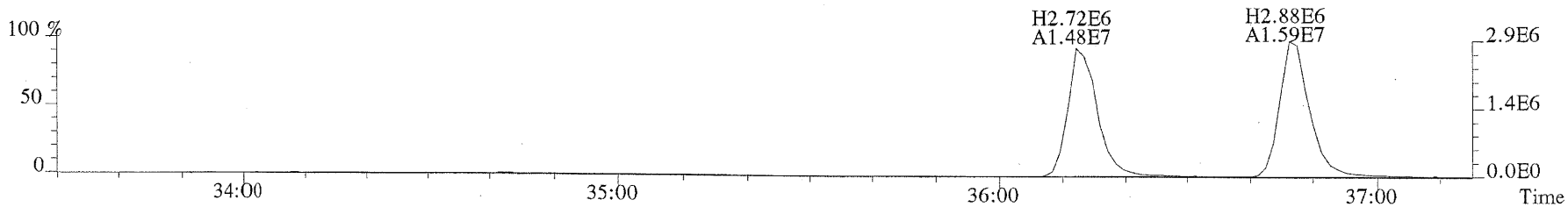
File:01AUG18Z #1-183 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



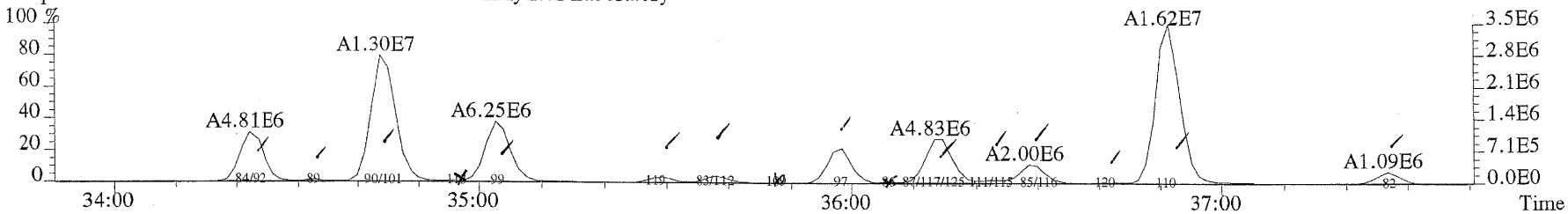
File:01AUG18Z #1-183 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



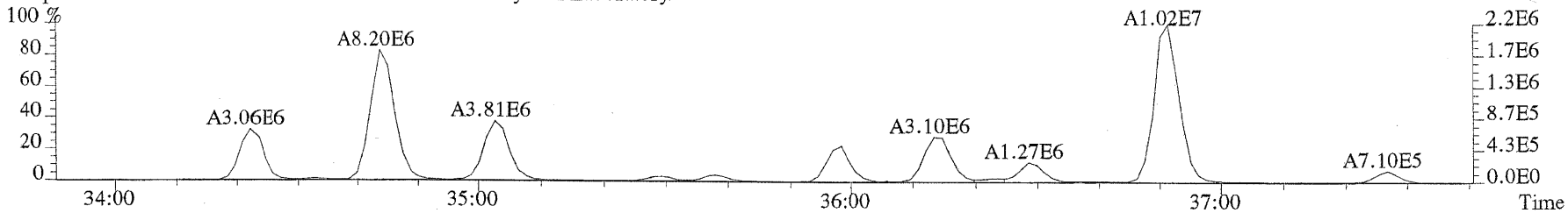
File:01AUG18Z #1-183 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



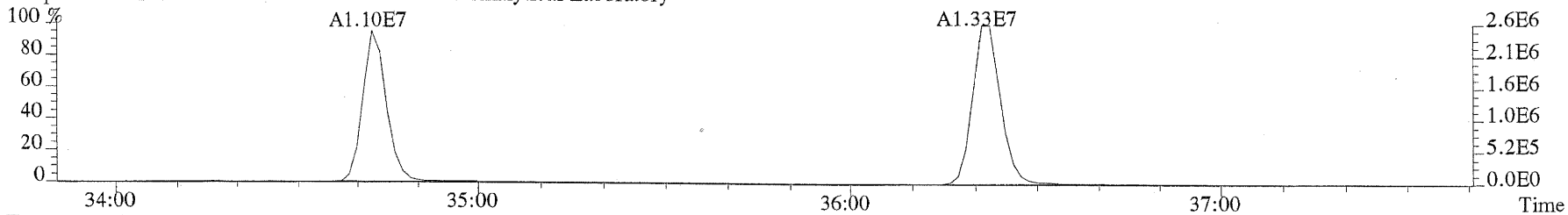
File:01AUG18Z #1-183 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



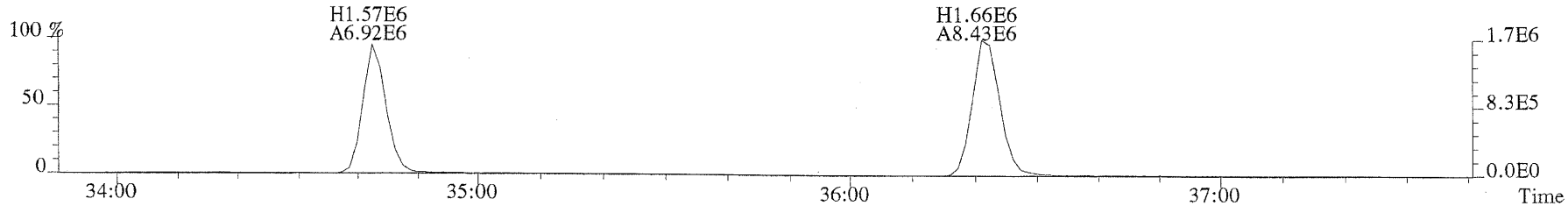
File:01AUG18Z #1-183 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



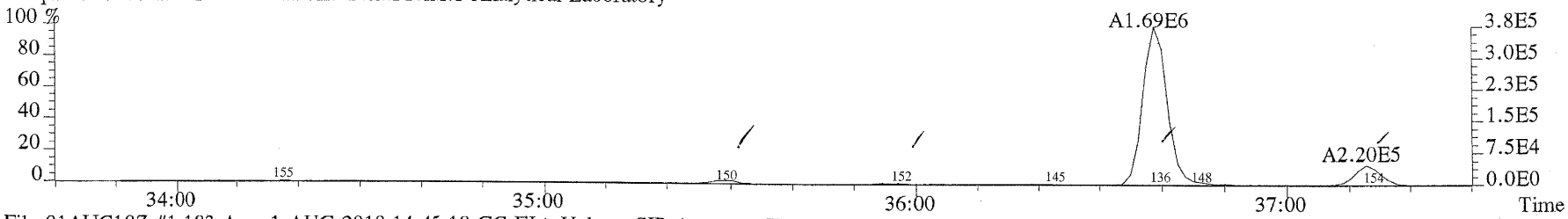
File:01AUG18Z #1-183 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



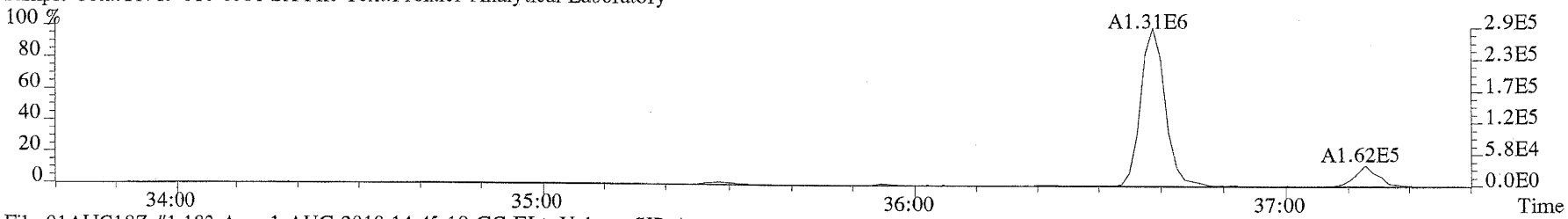
File:01AUG18Z #1-183 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



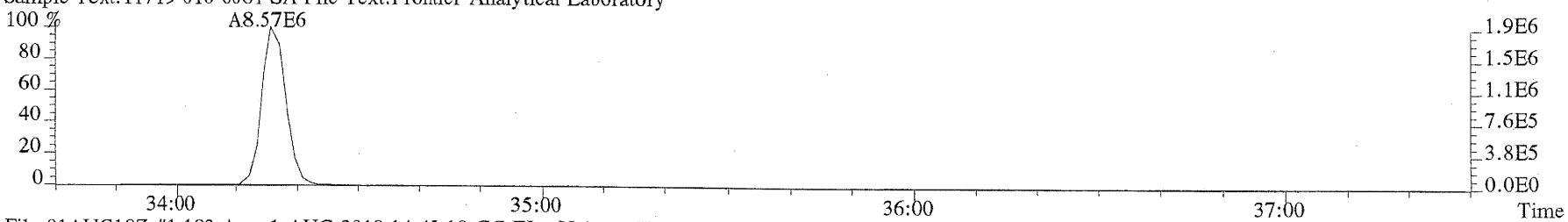
File:01AUG18Z #1-183 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



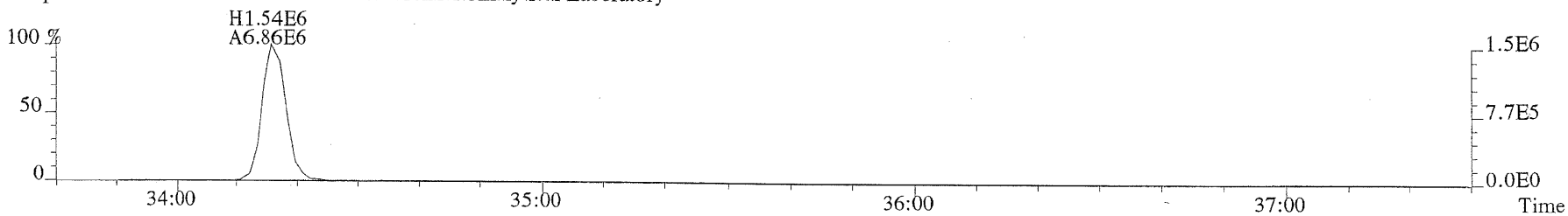
File:01AUG18Z #1-183 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



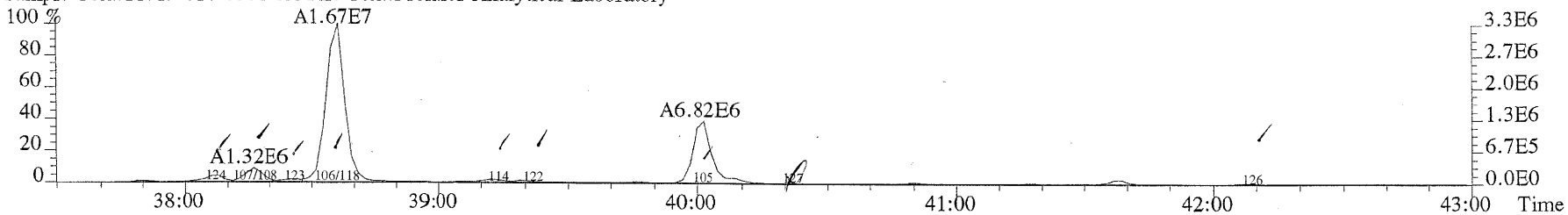
File:01AUG18Z #1-183 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



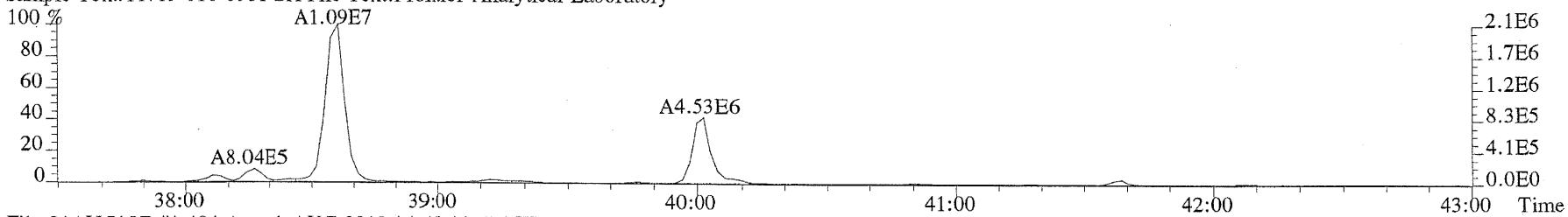
File:01AUG18Z #1-183 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



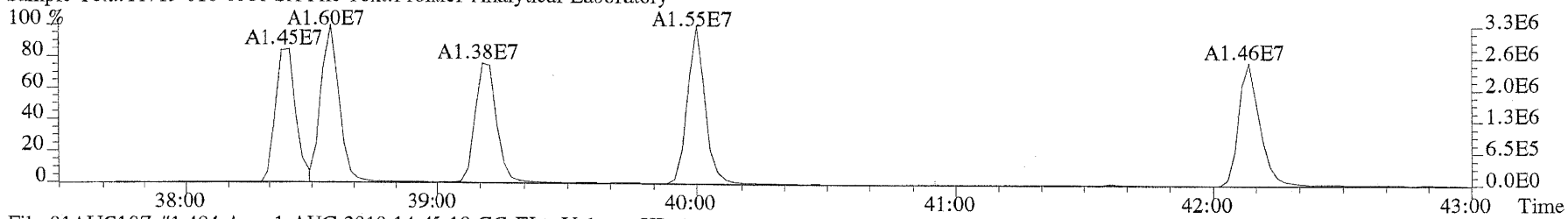
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



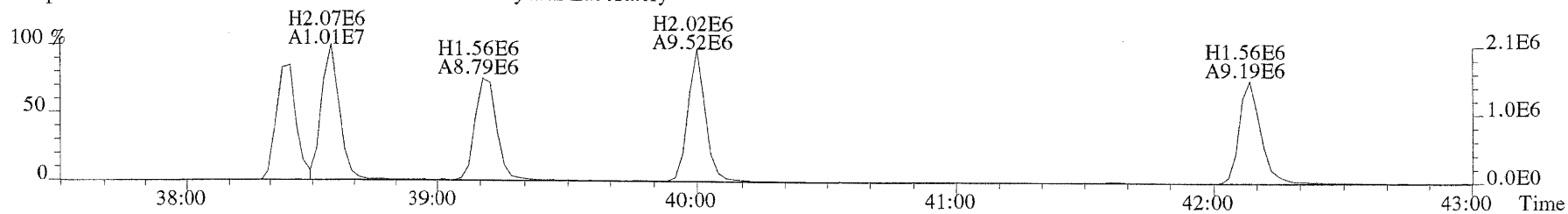
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



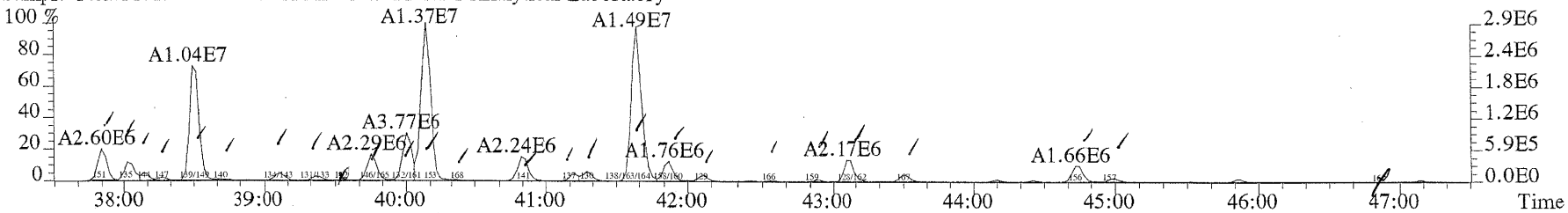
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



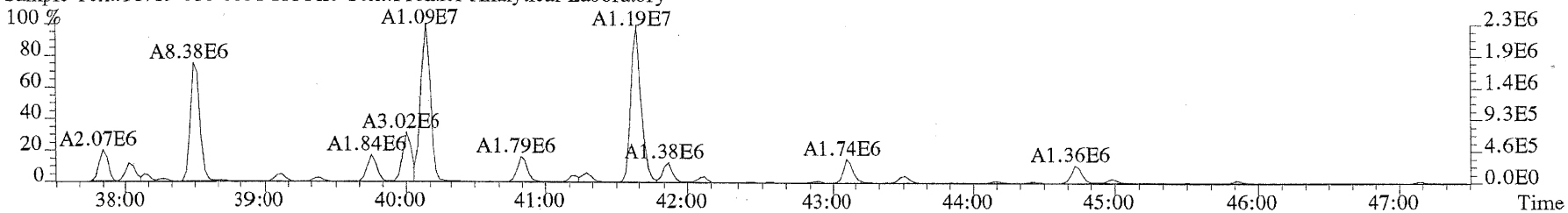
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



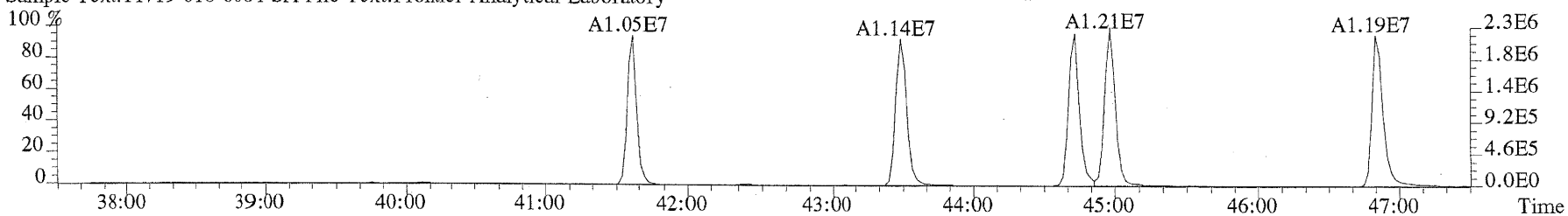
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



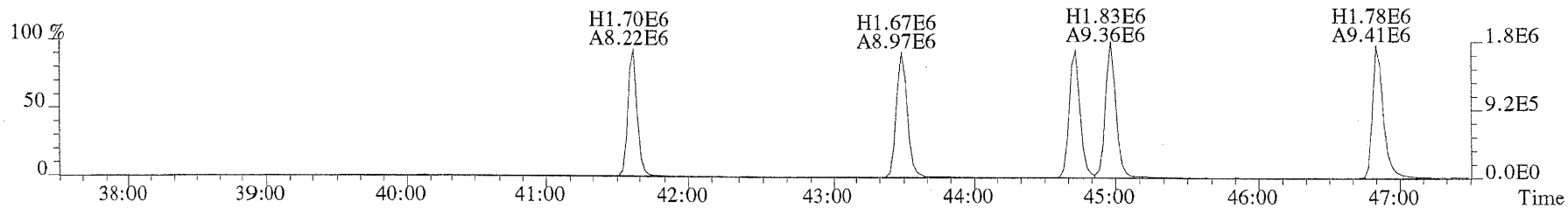
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



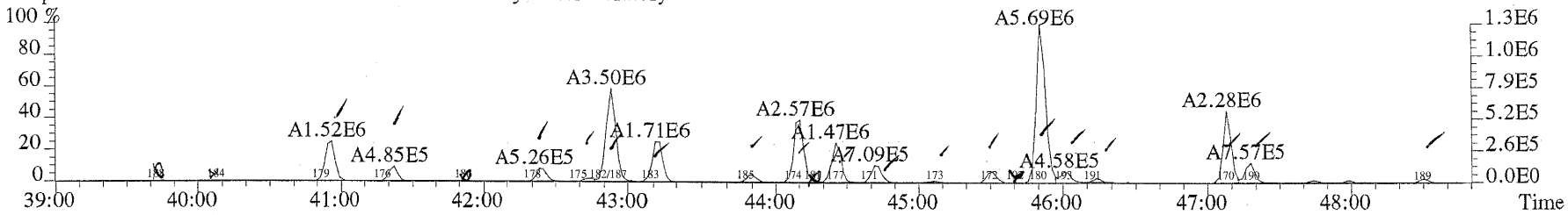
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



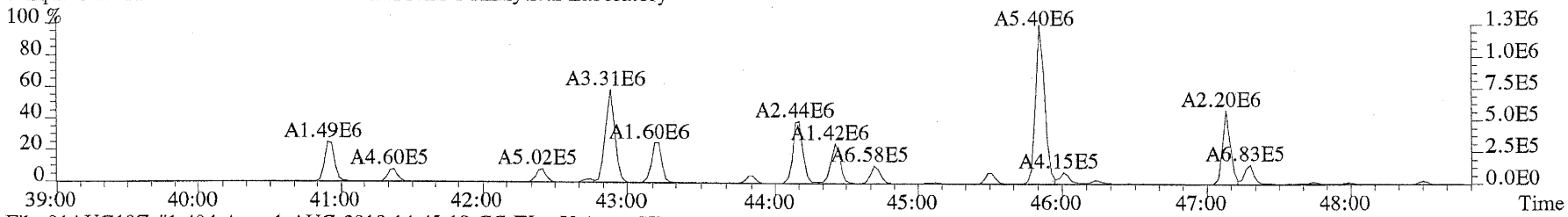
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



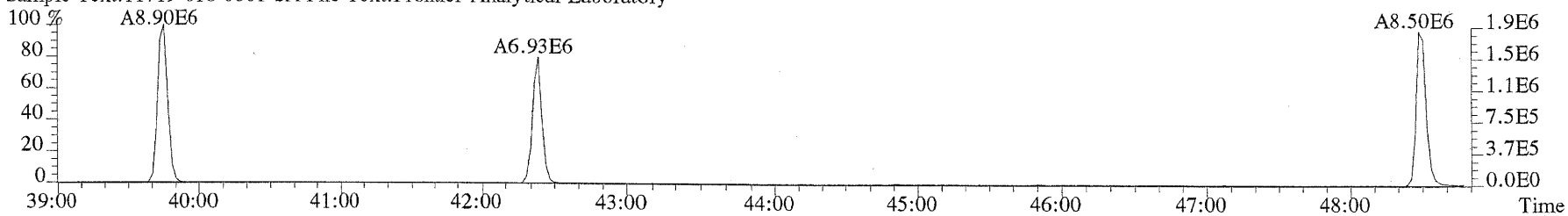
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



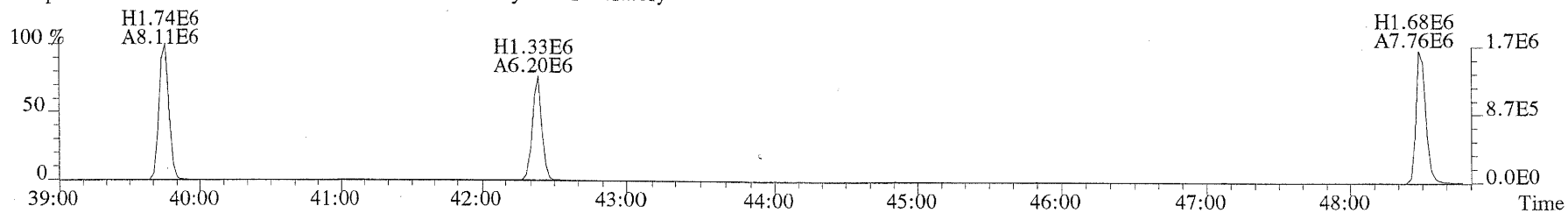
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



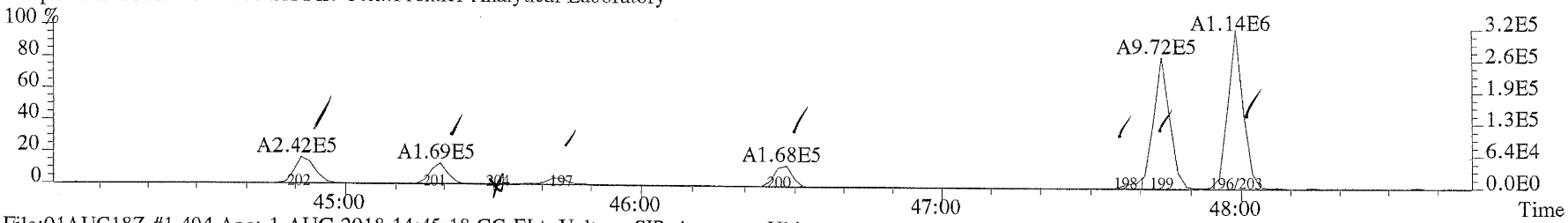
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



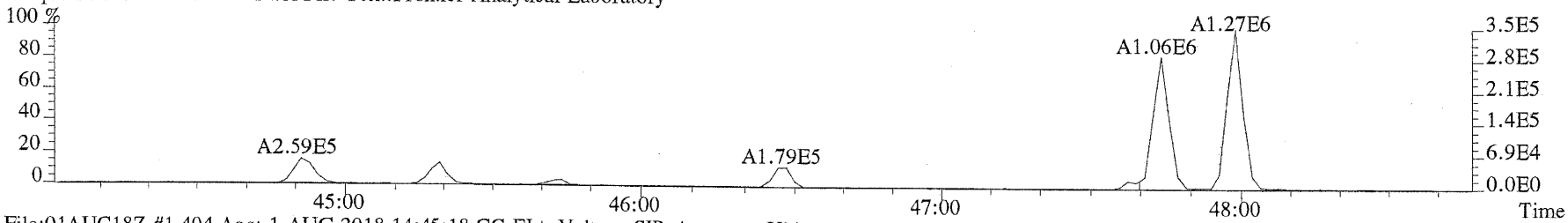
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



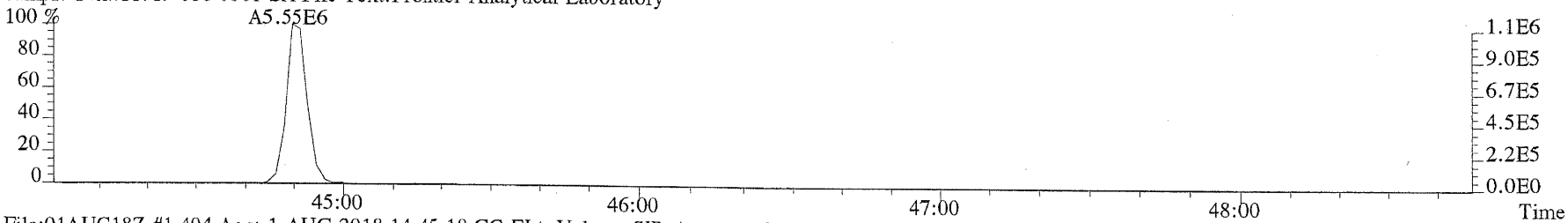
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



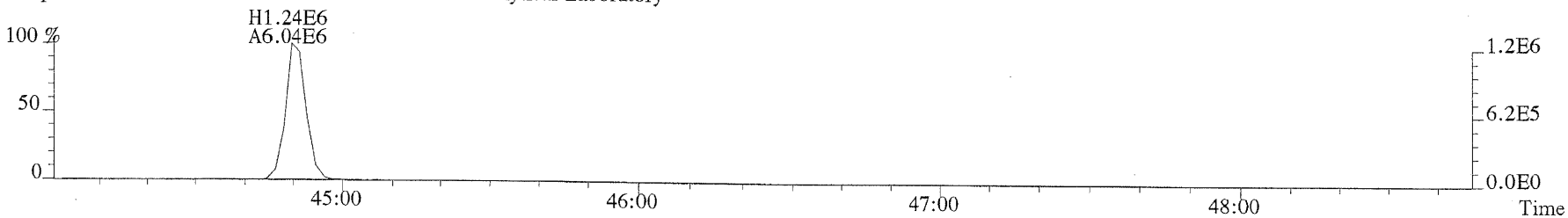
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



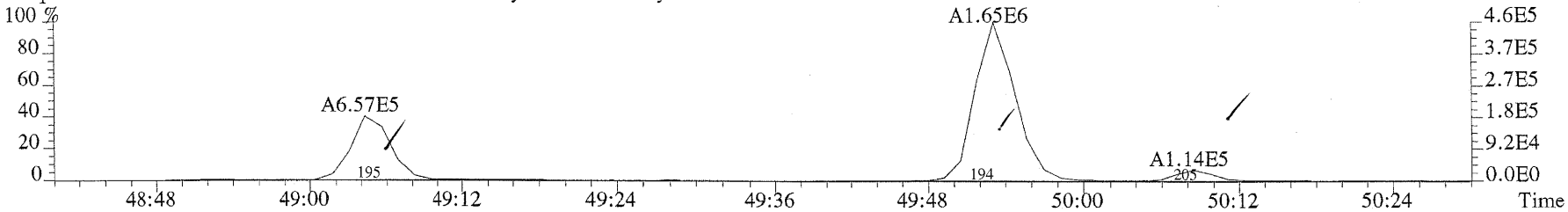
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



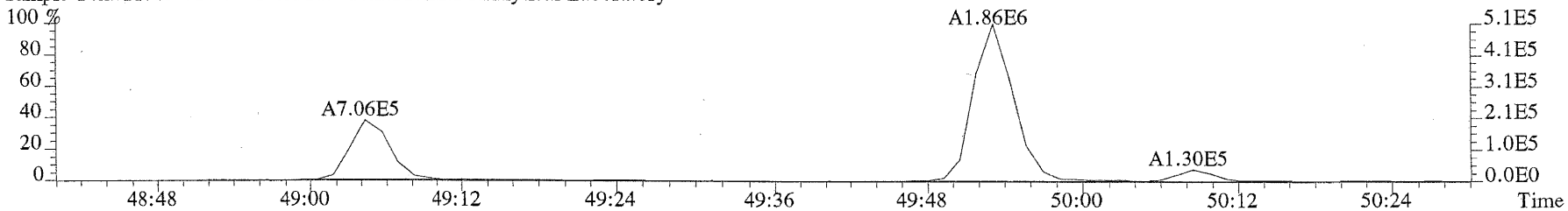
File:01AUG18Z #1-404 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



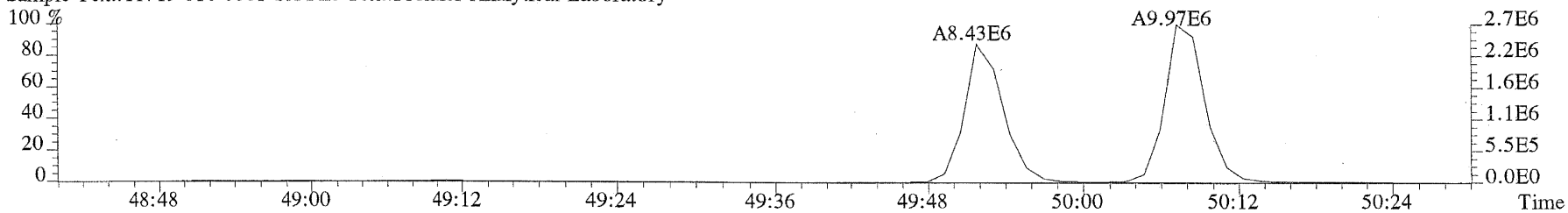
File:01AUG18Z #1-314 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



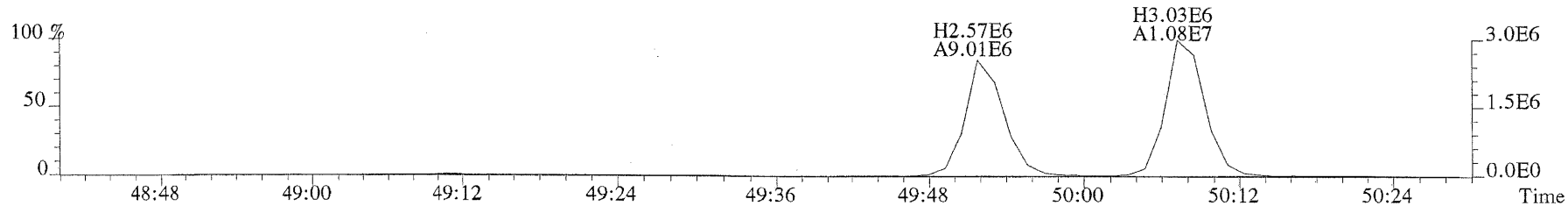
File:01AUG18Z #1-314 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



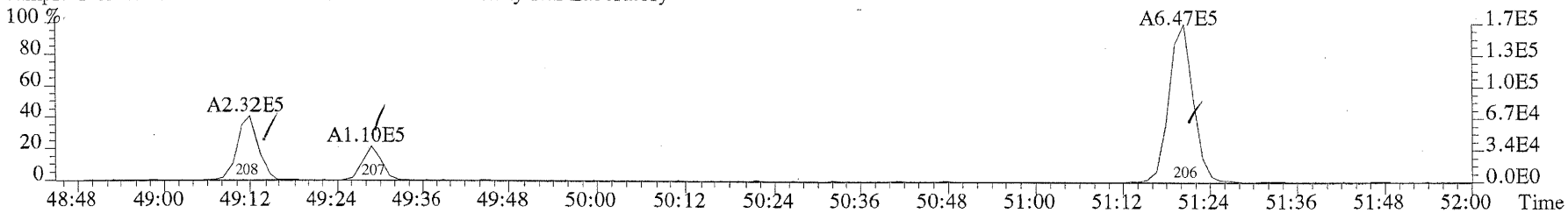
File:01AUG18Z #1-314 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



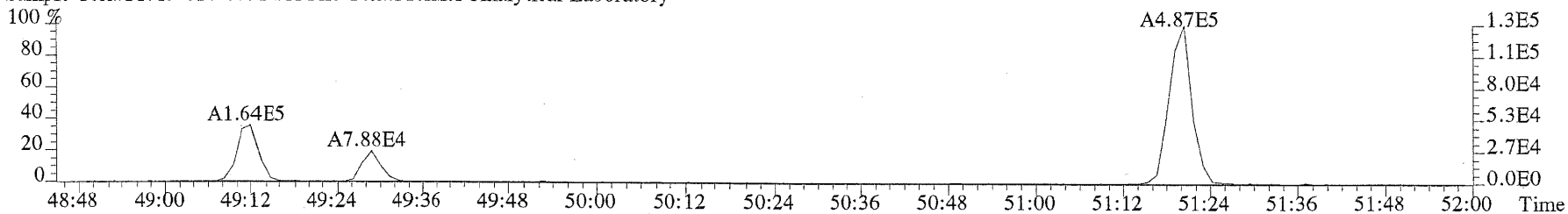
File:01AUG18Z #1-314 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



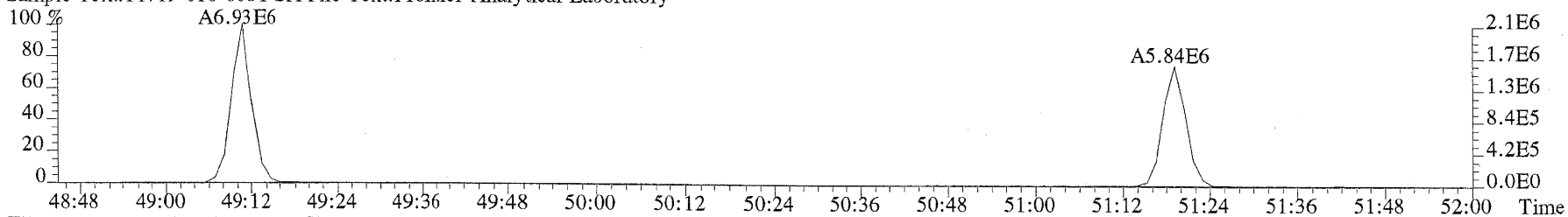
File:01AUG18Z #1-314 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



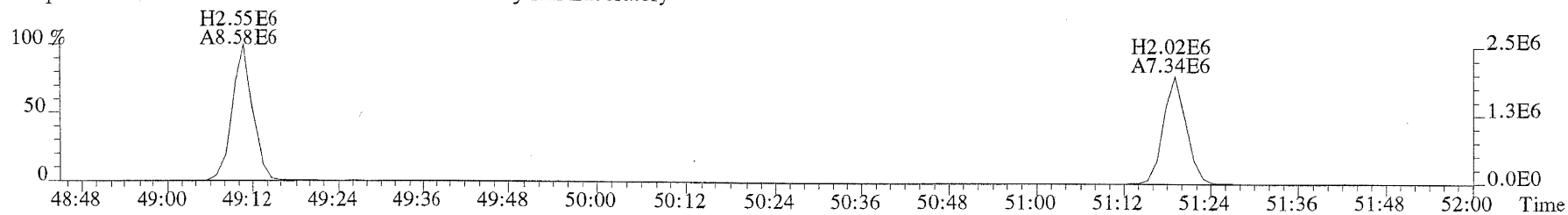
File:01AUG18Z #1-314 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



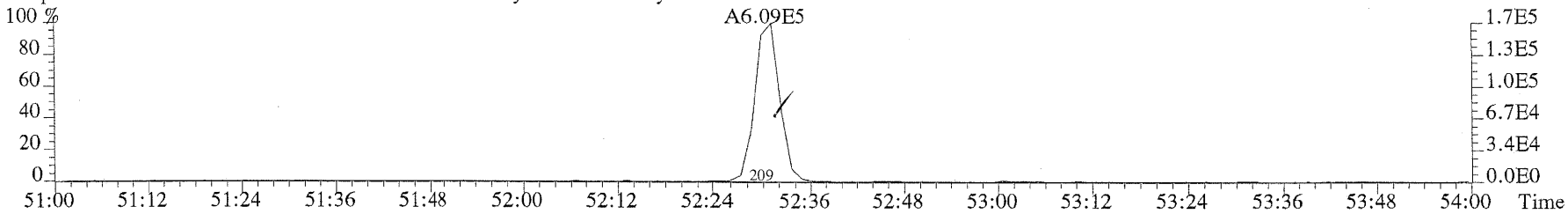
File:01AUG18Z #1-314 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



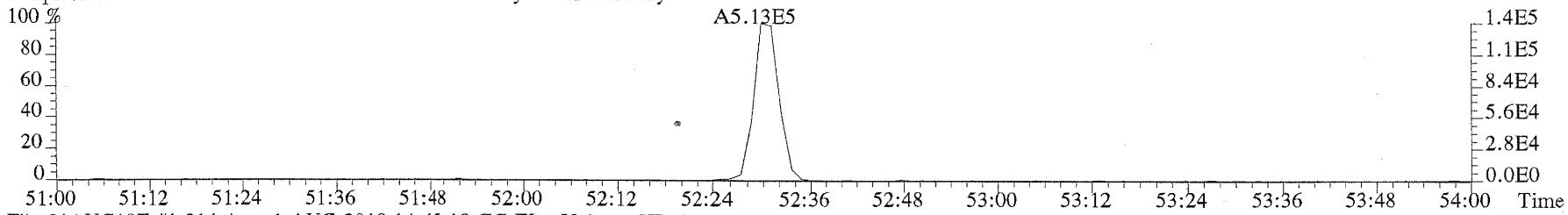
File:01AUG18Z #1-314 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



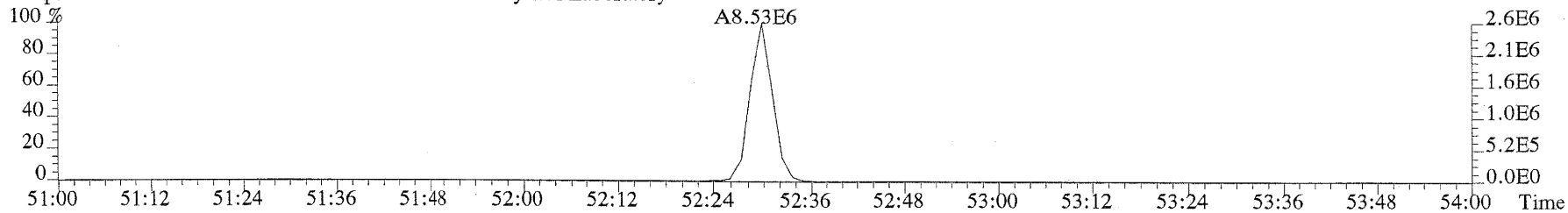
File:01AUG18Z #1-314 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



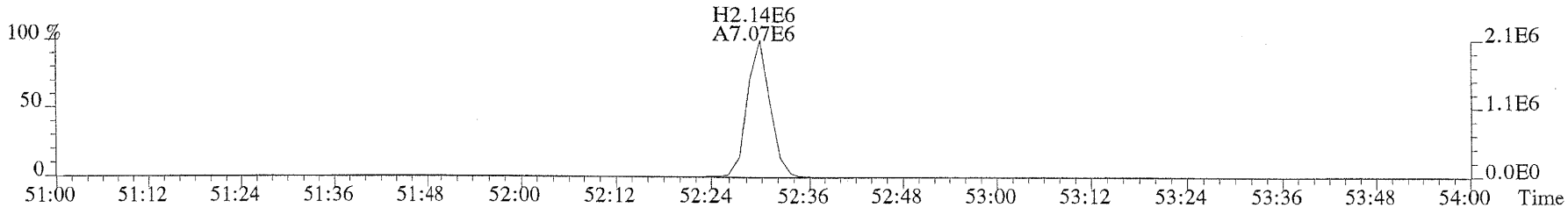
File:01AUG18Z #1-314 Acq: 1-AUG-2018 14:45:18 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-016-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-314 Acq: 1-AUG-2018 14:45:18 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:11719-016-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-314 Acq: 1-AUG-2018 14:45:18 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:11719-016-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-017-0001-SA Filename: 01AUG18Z Sam:7 Acquired: 1-AUG-18 15:43:44 ICal: DAILY209FAL4-8-1-18
Client ID: LDW-Y1-SU-ENR+AC-CB-CORE ConCal: ST080118Z1 EndCal: ST080118Z2
Results: 11719-16 GC Column: DB1MS Amount: 4.990

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	3.00e+05	2.93 y	14:33	1.14	11.3		-	-	*			
13C-PCB-1	4.67e+07	3.25 y	14:32	1.01	1670					83.5	1.16e+07	3.53e+06
PCB-2	6.17e+04	3.36 y	16:46	1.03	2.54	J	-	-	*			
PCB-3	2.04e+05	3.09 y	16:59	1.13	7.63		-	-	*			
13C-PCB-3	4.75e+07	3.19 y	16:59	1.02	1680					83.8	1.06e+07	3.23e+06
PCB-4	1.14e+06	1.46 y	18:14	1.33	54.9		-	-	*			
PCB-10	1.34e+05	1.42 y	18:17	1.25	5.15		-	-	*			
13C-PCB-4	3.11e+07	1.60 y	18:12	0.66	1700					84.7	5.67e+06	3.52e+06
PCB-9	3.05e+05	1.53 y	19:55	1.37	10.7		-	-	*			
PCB-7	4.44e+05	1.50 y	19:57	1.37	15.5		-	-	*			
PCB-6	2.09e+06	1.50 y	20:33	1.33	75.5		-	-	*			
PCB-8	7.61e+06	1.45 y	20:55	1.38	266		-	-	*			
PCB-5	1.34e+05	1.42 y	18:17	1.38	4.67		-	-	*			
PCB-14	*	* n	NotFnd	1.29	*		804	1450	0.810			
PCB-11	3.59e+05	1.52 y	23:07	1.23	14.0		-	-	*			
PCB-13	6.83e+05	1.59 y	23:27	1.31	25.1		-	-	*			
PCB-12	2.42e+05	1.63 y	23:30	1.32	8.81		-	-	*			
PCB-15	5.19e+06	1.40 y	23:48	1.24	161		-	-	*			
13C-PCB-15	5.23e+07	1.62 y	23:46	1.05	1800					90.0	7.42e+06	4.61e+06
PCB-19	4.39e+05	1.11 y	22:07	1.14	33.0		-	-	*			
PCB-30	*	* n	NotFnd	1.57	*		4110	1150	3.01			
PCB-18	5.82e+06	1.05 y	23:41	1.10	457		-	-	*			
PCB-17	3.06e+06	1.09 y	23:51	1.20	219		-	-	*			
PCB-27	3.90e+05	1.14 y	24:22	1.57	21.4		-	-	*			
PCB-24	3.72e+05	1.11 y	24:23	1.55	20.6		-	-	*			
PCB-16	1.96e+06	0.98 y	24:51	1.29	130		-	-	*			
PCB-32	2.53e+06	1.12 y	24:53	1.40	155		-	-	*			
13C-PCB-19	2.33e+07	1.04 y	22:05	0.47	1790					89.5	2.86e+06	2.74e+06
13C-PCB-9	5.55e+07	1.64 y	19:54	-	12.2							
PCB-34	1.54e+05	1.08 y	25:38	1.05	6.90		-	-	*			
PCB-23	*	* n	NotFnd	1.24	*		840	696	1.01			
PCB-29	1.77e+05	1.16 y	25:58	1.21	6.88		-	-	*			
PCB-26	3.92e+06	1.05 y	26:09	1.18	157		-	-	*			
PCB-25	2.44e+06	1.11 y	26:19	1.51	76.5		-	-	*			
PCB-31	1.81e+07	1.04 y	26:40	1.23	696		-	-	*			
PCB-28	2.17e+07	1.07 y	26:45	1.43	718		-	-	*			
PCB-20	1.12e+07	1.08 y	27:21	1.25	420		-	-	*		Co-elute PCB 21/33	
PCB-21	1.12e+07	1.08 y	27:21	1.25	420		-	-	*		Co-elute PCB 20/33	
PCB-33	1.12e+07	1.08 y	27:21	1.25	420		-	-	*		Co-elute PCB 20/21	
PCB-22	6.88e+06	1.05 y	27:45	1.29	252		-	-	*			
PCB-36	*	* n	NotFnd	1.15	*		840	696	1.09			
PCB-39	*	* n	NotFnd	1.20	*		840	696	1.04			
PCB-38	*	* n	NotFnd	1.18	*		840	696	1.06			
PCB-35	3.56e+05	1.10 y	30:04	1.10	15.3		-	-	*			
PCB-37	5.38e+06	1.05 y	30:31	1.28	198		-	-	*			
13C-PCB-37	4.25e+07	1.07 y	30:30	1.72	1560					77.9	3.18e+06	2.98e+06

PCB-54	2.61e+04	0.85	y	25:40	1.10	1.71	J	-	-	*			
PCB-50	3.82e+04	0.69	y	26:46	0.85	3.24	J	-	-	*			
PCB-53	1.21e+06	0.81	y	27:23	0.88	99.4		-	-	*			
PCB-51	4.29e+05	0.85	y	27:42	0.92	33.8		-	-	*			
PCB-45	1.09e+06	0.83	y	28:07	0.76	103		-	-	*			
PCB-46	4.11e+05	0.87	y	28:35	0.74	40.0		-	-	*			
PCB-52	1.37e+07	0.80	y	29:01	1.05	942		-	-	*	Co-elute PCB 69		
PCB-69	1.37e+07	0.80	y	29:01	1.05	942		-	-	*	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.21	*		580	732	0.831			
PCB-43	8.56e+06	0.80	y	29:19	0.85	726		-	-	*	Co-elute PCB 49		
PCB-49	8.56e+06	0.80	y	29:19	0.85	726		-	-	*	Co-elute PCB 43		
PCB-47	3.01e+06	0.78	y	29:30	1.14	190		-	-	*			
PCB-48	2.53e+06	0.78	y	29:37	1.03	177		-	-	*	Co-elute PCB 75		
PCB-75	2.53e+06	0.78	y	29:37	1.03	177		-	-	*	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.09	*		580	732	0.927			
PCB-62	*	*	n	NotFnd	1.19	*		580	732	0.844			
PCB-44	7.63e+06	0.81	y	30:17	0.81	684		-	-	*			
PCB-42	3.31e+06	0.82	y	30:32	1.05	227		-	-	*	Co-elute PCB 59		
PCB-59	3.31e+06	0.82	y	30:32	1.05	227		-	-	*	Co-elute PCB 42		
PCB-72	8.01e+06	0.81	y	31:11	1.13	513		-	-	*	Co-elute PCB 41/71/64		
PCB-41	8.01e+06	0.81	y	31:11	1.13	513		-	-	*	Co-elute PCB 72/71/64		
PCB-71	8.01e+06	0.81	y	31:11	1.13	513		-	-	*	Co-elute PCB 72/41/64		
PCB-64	8.01e+06	0.81	y	31:11	1.13	513		-	-	*	Co-elute PCB 72/41/71		
PCB-68	1.05e+05	0.84	y	31:28	1.24	6.13		-	-	*			
PCB-40	9.88e+05	0.84	y	31:39	0.71	101		-	-	*			
PCB-57	9.09e+04	0.88	y	31:54	1.11	5.93		-	-	*			
PCB-67	4.47e+05	0.78	y	32:11	1.10	29.4		-	-	*			
PCB-58	5.55e+04	0.85	y	32:16	1.13	3.53	J	-	-	*			
PCB-63	5.59e+05	0.83	y	32:26	1.17	34.5		-	-	*			
PCB-74	6.65e+06	0.81	y	32:41	1.19	405		-	-	*			
PCB-61	1.57e+07	0.81	y	32:53	1.22	928		-	-	*	Co-elute PCB 70		
PCB-70	1.57e+07	0.81	y	32:53	1.22	928		-	-	*	Co-elute PCB 61		
PCB-76	1.32e+07	0.82	y	33:05	1.17	812		-	-	*	Co-elute PCB 66		
PCB-66	1.32e+07	0.82	y	33:05	1.17	812		-	-	*	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.31	*		580	732	0.768			
PCB-55	3.09e+05	0.82	y	33:34	1.16	19.2		-	-	*			
13C-PCB-54	2.78e+07	0.81	y	25:38	1.13	1550					77.4	2.91e+06	3.61e+06
PCB-104	*	*	n	NotFnd	1.22	*		296	306	0.646			
PCB-96	1.12e+05	1.38	y	31:28	1.08	9.45		-	-	*			
PCB-103	1.62e+05	1.63	y	31:54	0.92	16.1		-	-	*			
PCB-100	6.87e+04	1.56	y	32:13	0.95	6.63		-	-	*			
PCB-94	5.29e+04	1.50	y	32:37	0.79	6.16		-	-	*			
PCB-98	*	*	n	NotFnd	0.97	*		296	306	0.810	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.97	*		296	306	0.810	Co-elute PCB 98		
PCB-95	8.87e+06	1.59	y	33:08	0.89	917		-	-	*			
PCB-93	*	*	n	NotFnd	0.78	*		296	306	1.01			
PCB-88	1.59e+06	1.53	y	33:30	0.84	174		-	-	*	Co-elute PCB 91		
PCB-91	1.59e+06	1.53	y	33:30	0.84	174		-	-	*	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.19	*		296	306	0.662			
13C-PCB-104	2.19e+07	1.60	y	30:06	0.71	1950					97.2	2.36e+06	1.47e+06
13C-PCB-28	5.74e+07	1.08	y	26:43	1.98	1830					91.5	6.56e+06	6.22e+06
13C-PCB-52	3.17e+07	0.80	y	29:00	-	13.7							

PCB-56	9.69e+06	0.80	y	34:03	1.08	501		-	-	*			Co-elute PCB 60
PCB-60	9.69e+06	0.80	y	34:03	1.08	501		-	-	*			Co-elute PCB 56
PCB-79	2.55e+05	0.74	y	35:03	1.14	12.4		-	-	*			
PCB-78	*	*	n	NotFnd	1.15	*		580	770	0.894			
PCB-81	3.99e+05	0.76	y	36:13	1.20	19.0		-	-	*			
13C-PCB-81	3.50e+07	0.81	y	36:13	1.61	1770					88.2	2.86e+06	3.54e+06
PCB-77	1.68e+06	0.79	y	36:47	1.17	78.0		-	-	*			
13C-PCB-77	3.70e+07	0.82	y	36:46	1.65	1820					90.9	3.09e+06	3.73e+06
PCB-155	*	*	n	NotFnd	1.13	*		332	204	0.545			
PCB-150	4.05e+04	1.10	y	35:30	1.02	4.08		-	-	*			
PCB-152	2.39e+04	1.17	y	35:56	0.98	2.50	J	-	-	*			
PCB-145	*	*	n	NotFnd	0.99	*		332	204	0.619			
PCB-136	2.12e+06	1.28	y	36:39	0.95	230		-	-	*			
PCB-148	*	*	n	NotFnd	0.76	*		332	204	0.809			
PCB-154	2.18e+05	1.20	y	37:13	0.90	25.0		-	-	*			
13C-PCB-155	1.95e+07	1.26	y	34:16	0.97	1620					80.8	2.41e+06	1.95e+06
13C-PCB-111	2.93e+07	1.59	y	36:21	1.24	1920					95.8	3.60e+06	2.26e+06
13C-PCB-101	2.47e+07	1.60	y	34:42	-	13.2							
PCB-84	5.98e+06	1.59	y	34:22	0.60	622		-	-	*			Co-elute PCB 92
PCB-92	5.98e+06	1.59	y	34:22	0.60	622		-	-	*			Co-elute PCB 84
PCB-89	1.90e+05	1.60	y	34:32	0.59	20.0		-	-	*			
PCB-90	1.70e+07	1.57	y	34:44	0.68	1540		-	-	*			Co-elute PCB 101
PCB-101	1.70e+07	1.57	y	34:44	0.68	1540		-	-	*			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.79	*		430	316	0.748			
PCB-99	7.70e+06	1.56	y	35:03	0.75	636		-	-	*			
PCB-119	4.81e+05	1.53	y	35:29	0.84	35.6		-	-	*			
PCB-83	7.92e+05	1.46	y	35:38	0.69	70.9		-	-	*			Co-elute PCB 112
PCB-112	7.92e+05	1.46	y	35:38	0.69	70.9		-	-	*			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.90	*		430	316	0.659			
PCB-97	4.64e+06	1.56	y	35:58	0.74	390		-	-	*			
PCB-86	*	*	n	NotFnd	0.65	*		430	316	0.909			
PCB-125	6.80e+06	1.55	y	36:13	0.76	555		-	-	*			Co-elute PCB 87/117
PCB-87	6.80e+06	1.55	y	36:13	0.76	555		-	-	*			Co-elute PCB 125/117
PCB-117	6.80e+06	1.55	y	36:13	0.76	555		-	-	*			Co-elute PCB 125/87
PCB-111	4.87e+05	1.65	y	36:23	1.02	29.6		-	-	*			Co-elute PCB 115
PCB-115	4.87e+05	1.65	y	36:23	1.02	29.6		-	-	*			Co-elute PCB 111
PCB-85	2.74e+06	1.58	y	36:28	0.71	238		-	-	*			Co-elute PCB 116
PCB-116	2.74e+06	1.58	y	36:28	0.71	238		-	-	*			Co-elute PCB 85
PCB-120	3.99e+04	1.43	y	36:39	0.86	2.88	J	-	-	*			
PCB-110	2.11e+07	1.56	y	36:51	1.00	1310		-	-	*			
PCB-82	1.55e+06	1.57	y	37:27	0.50	191		-	-	*			
PCB-124	1.00e+06	1.48	y	38:06	1.04	59.7		-	-	*			
PCB-108	1.72e+06	1.55	y	38:16	1.05	102		-	-	*			Co-elute PCB 107
PCB-107	1.72e+06	1.55	y	38:16	1.05	102		-	-	*			Co-elute PCB 108
PCB-123	3.39e+05	1.53	y	38:24	1.45	15.3		-	-	*			
13C-PCB-123	3.06e+07	1.59	y	38:23	1.31	1770					88.5	3.61e+06	2.31e+06
PCB-118	2.16e+07	1.52	y	38:34	1.05	1280		-	-	*			Co-elute PCB 106
PCB-106	2.16e+07	1.52	y	38:34	1.05	1280		-	-	*			Co-elute PCB 118
13C-PCB-118	3.21e+07	1.59	y	38:34	1.57	1550					77.4	3.82e+06	2.42e+06
PCB-114	6.32e+05	1.75	y	39:12	1.13	33.6		-	-	*			
13C-PCB-114	3.33e+07	1.60	y	39:10	1.46	1740					86.6	4.01e+06	2.51e+06
PCB-122	2.93e+05	1.49	y	39:19	1.12	16.2		-	-	*			
PCB-105	1.03e+07	1.51	y	40:01	1.12	553		-	-	*			
13C-PCB-105	3.32e+07	1.65	y	40:00	1.43	1760					88.1	4.09e+06	2.42e+06

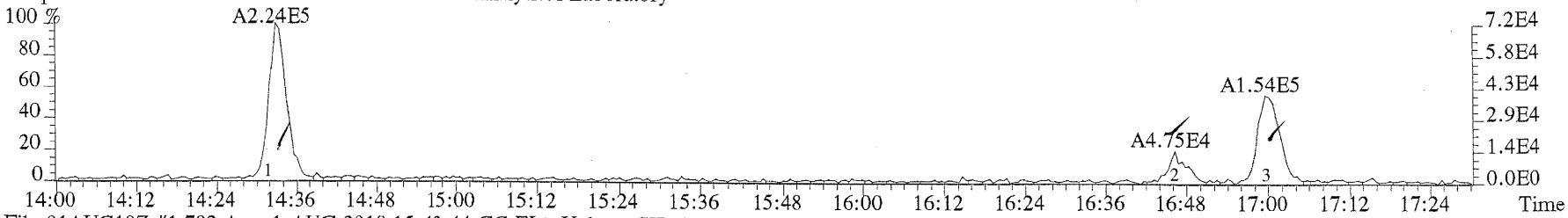
PCB-127	*	*	n	NotFnd	1.06	*	850	760	1.21				
PCB-126	1.36e+05	1.50	y	42:08	1.15	7.21	-	-	*				
13C-PCB-126	3.27e+07	1.63	y	42:08	1.37	1820				90.6	3.56e+06	2.23e+06	
PCB-151	3.29e+06	1.24	y	37:50	0.66	360	-	-	*				
PCB-135	2.07e+06	1.21	y	38:01	0.76	198	-	-	*				
PCB-144	7.13e+05	1.28	y	38:08	0.75	69.5	-	-	*				
PCB-147	3.33e+05	1.32	y	38:16	0.85	28.4	-	-	*				
PCB-139	1.38e+07	1.26	y	38:29	0.86	1170	-	-	*				Co-elute PCB 149
PCB-149	1.38e+07	1.26	y	38:29	0.86	1170	-	-	*				Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.86	*	640	520	1.29				
PCB-143	9.08e+05	1.22	y	39:05	0.81	81.6	-	-	*				Co-elute PCB 134
PCB-134	9.08e+05	1.22	y	39:05	0.81	81.6	-	-	*				Co-elute PCB 143
PCB-131	5.21e+05	1.26	y	39:22	0.81	47.1	-	-	*				Co-elute PCB 133
PCB-133	5.21e+05	1.26	y	39:22	0.81	47.1	-	-	*				Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.74	*	640	520	1.51				
PCB-165	2.78e+06	1.28	y	39:45	0.98	206	-	-	*				Co-elute PCB 146
PCB-146	2.78e+06	1.28	y	39:45	0.98	206	-	-	*				Co-elute PCB 165
PCB-161	5.37e+06	1.24	y	40:00	0.89	441	-	-	*				Co-elute PCB 132
PCB-132	5.37e+06	1.24	y	40:00	0.89	441	-	-	*				Co-elute PCB 161
PCB-153	1.86e+07	1.26	y	40:08	0.98	1380	-	-	*				
PCB-168	*	*	n	NotFnd	1.12	*	640	520	0.992				
PCB-141	3.26e+06	1.22	y	40:49	0.86	276	-	-	*				
PCB-137	7.90e+05	1.27	y	41:12	0.77	74.6	-	-	*				
PCB-130	1.12e+06	1.31	y	41:17	0.86	94.3	-	-	*				
PCB-138	2.14e+07	1.25	y	41:39	1.09	1430	-	-	*				Co-elute PCB 163/164
PCB-163	2.14e+07	1.25	y	41:39	1.09	1430	-	-	*				Co-elute PCB 138/164
PCB-164	2.14e+07	1.25	y	41:39	1.09	1430	-	-	*				Co-elute PCB 138/163
PCB-158	2.72e+06	1.25	y	41:52	1.13	176	-	-	*				Co-elute PCB 160
PCB-160	2.72e+06	1.25	y	41:52	1.13	176	-	-	*				Co-elute PCB 158
PCB-129	7.86e+05	1.20	y	42:07	0.73	78.6	-	-	*				
PCB-166	8.85e+04	1.35	y	42:33	1.05	6.16	-	-	*				
PCB-159	2.19e+05	1.20	y	42:53	1.11	14.3	-	-	*				
PCB-128	3.33e+06	1.24	y	43:06	0.95	254	-	-	*				Co-elute PCB 162
PCB-162	3.33e+06	1.24	y	43:06	0.95	254	-	-	*				Co-elute PCB 128
PCB-167	9.56e+05	1.25	y	43:31	1.05	67.3	-	-	*				
13C-PCB-167	2.71e+07	1.27	y	43:29	1.17	1770				88.1	2.96e+06	2.28e+06	
PCB-156	2.55e+06	1.26	y	44:43	1.06	179	-	-	*				
13C-PCB-156	2.70e+07	1.29	y	44:43	1.12	1830				91.4	2.89e+06	2.19e+06	
PCB-157	5.52e+05	1.28	y	44:58	1.13	35.2	-	-	*				
13C-PCB-157	2.78e+07	1.28	y	44:58	1.21	1750				87.4	2.95e+06	2.30e+06	
PCB-169	*	*	n	NotFnd	1.04	*	640	520	1.05				
13C-PCB-169	2.83e+07	1.28	y	46:50	1.13	1910				95.1	2.94e+06	2.35e+06	

FAL ID: 11719-017-0001-SA Filename: 01AUG18Z Sam:7 Acquired: 1-AUG-18 15:43:44 ICal: DAILY209FAL4-8-1-18
Client ID: LDW-Y1-SU-ENR+AC-CB-CORE ConCal: ST080118Z1 EndCal: ST080118Z2
Results: 11719-16 GC Column: DB1MS Amount: 4.990

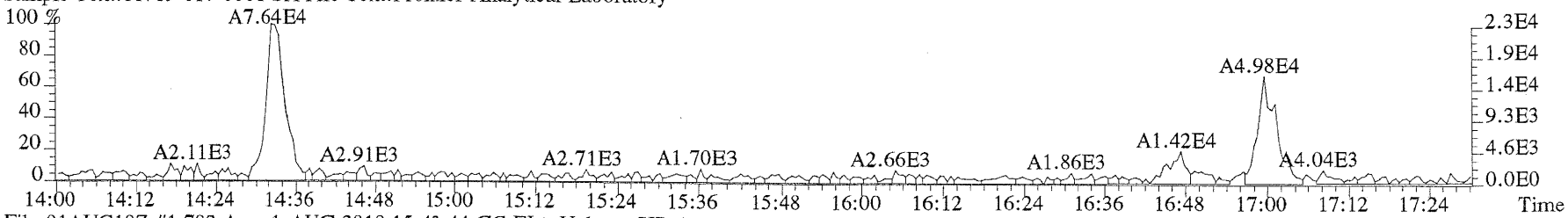
PCB-188	*	*	n	NotFnd	1.14	*	428	336	0.763				
13C-PCB-188	2.14e+07	1.09	y	39:43	0.95	1710				85.5	2.28e+06	2.13e+06	
PCB-184	*	*	n	NotFnd	1.18	*	428	336	0.677				
PCB-179	2.08e+06	1.07	y	40:54	1.09	176	-	-	*				
PCB-176	6.03e+05	1.04	y	41:20	1.07	52.2	-	-	*				
PCB-186	*	*	n	NotFnd	1.08	*	428	336	0.740				
PCB-178	7.34e+05	1.10	y	42:23	0.78	86.9	-	-	*				
PCB-175	1.41e+05	1.03	y	42:44	0.81	16.2	-	-	*				
PCB-187	4.78e+06	1.05	y	42:53	0.93	477	-	-	*		Co-elute PCB 182		
PCB-182	4.78e+06	1.05	y	42:53	0.93	477	-	-	*		Co-elute PCB 187		
PCB-183	2.32e+06	1.08	y	43:11	0.90	239	-	-	*				
PCB-185	4.34e+05	1.04	y	43:49	0.85	47.6	-	-	*				
PCB-174	3.46e+06	1.05	y	44:08	0.88	363	-	-	*				
PCB-181	*	*	n	NotFnd	0.83	*	428	336	0.960				
PCB-177	2.06e+06	1.04	y	44:25	0.73	260	-	-	*				
PCB-171	1.04e+06	1.03	y	44:41	0.81	118	-	-	*				
PCB-173	7.03e+04	1.08	y	45:06	0.75	8.72	-	-	*				
PCB-172	5.77e+05	0.93	y	45:31	0.75	71.6	-	-	*				
PCB-192	*	*	n	NotFnd	1.02	*	428	336	0.779				
PCB-180	8.13e+06	1.05	y	45:50	1.06	708	-	-	*				
PCB-193	5.59e+05	1.03	y	46:00	1.07	48.2	-	-	*				
PCB-191	2.04e+05	1.12	y	46:13	1.03	18.3	-	-	*				
PCB-170	3.43e+06	1.05	y	47:08	0.73	435	-	-	*				
PCB-190	1.07e+06	1.02	y	47:18	1.00	99.4	-	-	*				
PCB-189	1.88e+05	1.14	y	48:30	1.10	15.6	-	-	*				
13C-PCB-189	2.19e+07	1.08	y	48:28	0.88	1890				94.3	2.69e+06	2.54e+06	
PCB-202	3.33e+05	0.87	y	44:51	0.97	47.0	-	-	*				
PCB-201	2.35e+05	0.92	y	45:18	0.92	35.0	-	-	*				
PCB-204	*	*	n	NotFnd	0.97	*	168	288	0.763				
PCB-197	7.04e+04	0.94	y	45:44	1.02	9.41	-	-	*				
PCB-200	2.37e+05	0.87	y	46:27	0.94	34.7	-	-	*				
PCB-198	6.63e+04	0.99	y	47:37	0.65	14.0	-	-	*				
PCB-199	1.39e+06	0.88	y	47:44	0.77	248	-	-	*				
PCB-203	1.69e+06	0.90	y	47:59	0.79	294	-	-	*		Co-elute PCB 196		
PCB-196	1.69e+06	0.90	y	47:59	0.79	294	-	-	*		Co-elute PCB 203		
13C-PCB-202	1.47e+07	0.94	y	44:50	0.69	1610				80.2	1.47e+06	1.63e+06	
13C-PCB-178	1.85e+07	1.08	y	42:21	0.73	1940				96.9	1.96e+06	1.81e+06	
13C-PCB-138	2.64e+07	1.29	y	41:37	-	13.2							
PCB-195	9.44e+05	0.91	y	49:04	0.75	87.3	-	-	*				
PCB-194	2.38e+06	0.91	y	49:53	0.82	202	-	-	*				
PCB-205	1.70e+05	0.85	y	50:08	1.11	10.6	-	-	*				
13C-PCB-205	2.89e+07	0.91	y	50:07	1.30	1800				89.8	4.08e+06	4.51e+06	
PCB-208	2.38e+05	1.26	y	49:11	0.99	19.8	-	-	*				
13C-PCB-208	2.44e+07	0.81	y	49:11	1.11	1790				89.2	3.23e+06	3.94e+06	
PCB-207	1.28e+05	1.42	y	49:29	1.00	12.1	-	-	*				
PCB-206	7.42e+05	1.29	y	51:19	1.02	81.0	-	-	*				
13C-PCB-206	1.80e+07	0.80	y	51:19	0.87	1680				83.6	2.21e+06	2.75e+06	
PCB-209	3.13e+05	1.21	y	52:30	1.09	27.4	-	-	*				
13C-PCB-209	2.10e+07	1.20	y	52:30	1.03	1660				82.6	3.43e+06	2.78e+06	
13C-PCB-194	2.47e+07	0.94	y	49:52	-	12.4							

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

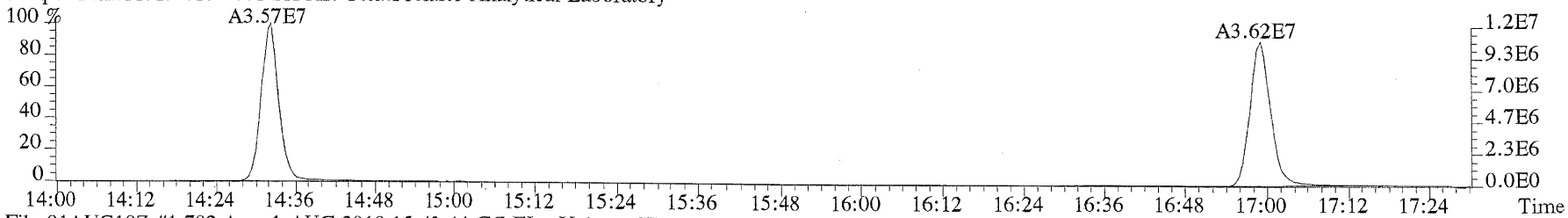
File:01AUG18Z #1-783 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:7 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



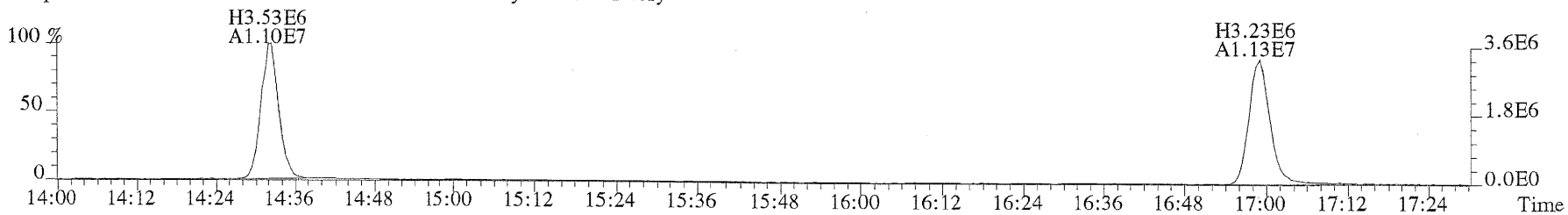
File:01AUG18Z #1-783 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:7 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



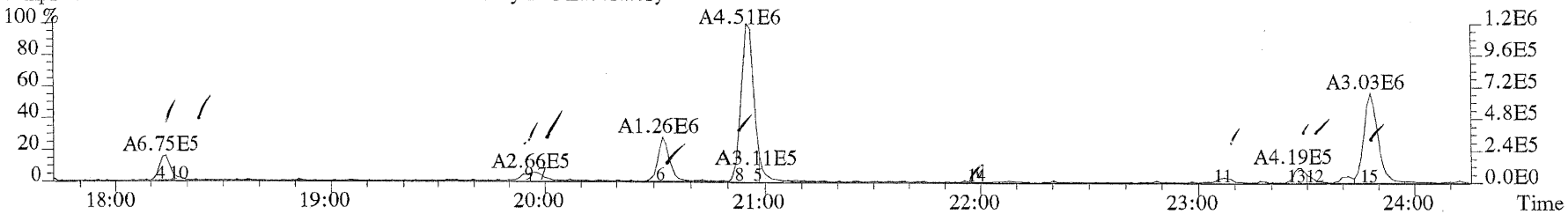
File:01AUG18Z #1-783 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:7 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



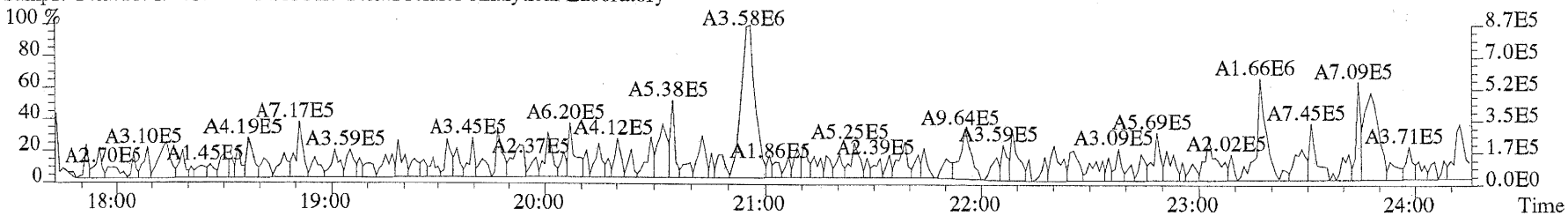
File:01AUG18Z #1-783 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:7 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



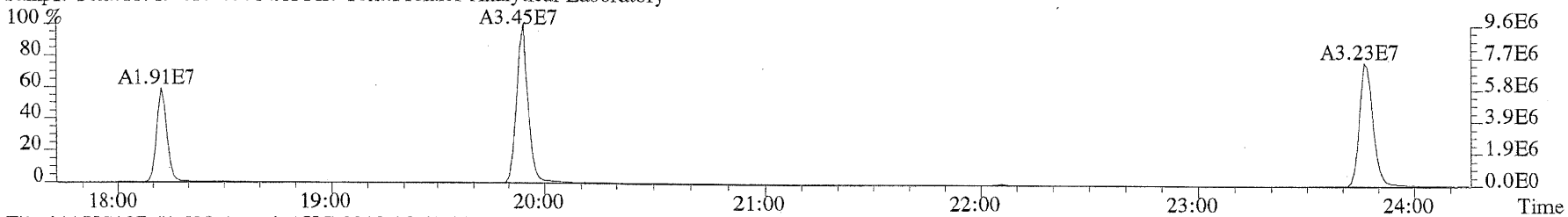
File:01AUG18Z #1-520 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



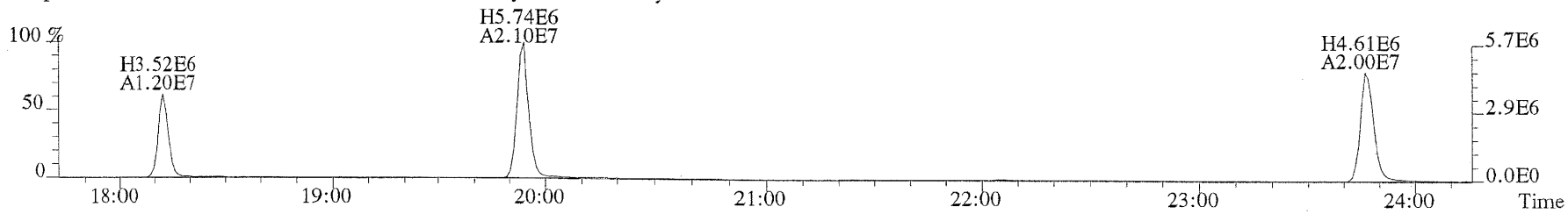
File:01AUG18Z #1-520 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



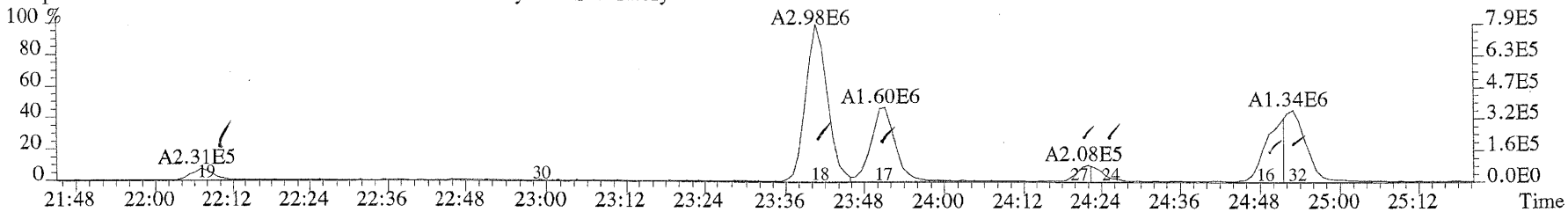
File:01AUG18Z #1-520 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



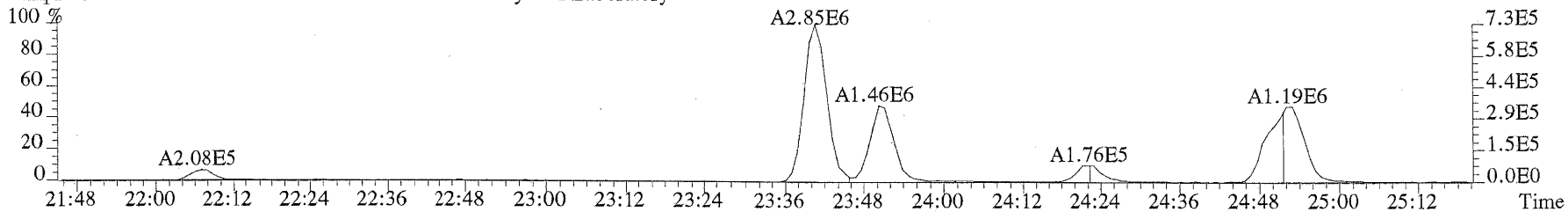
File:01AUG18Z #1-520 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



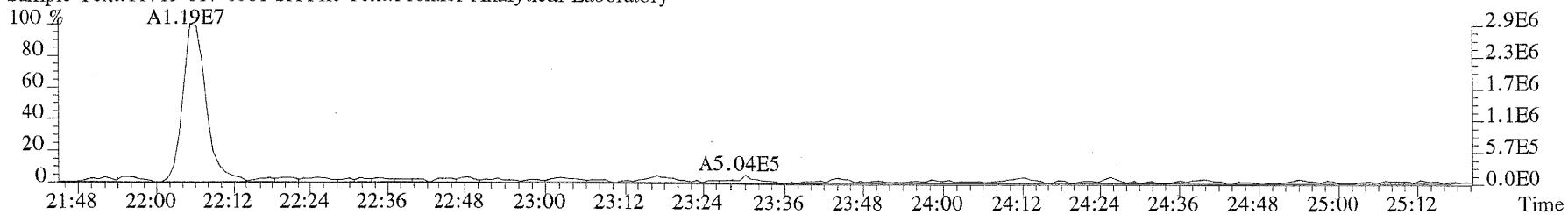
File:01AUG18Z #1-520 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



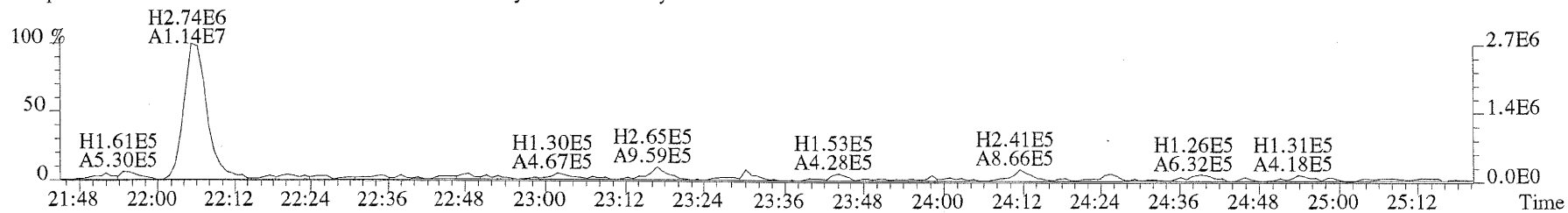
File:01AUG18Z #1-520 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



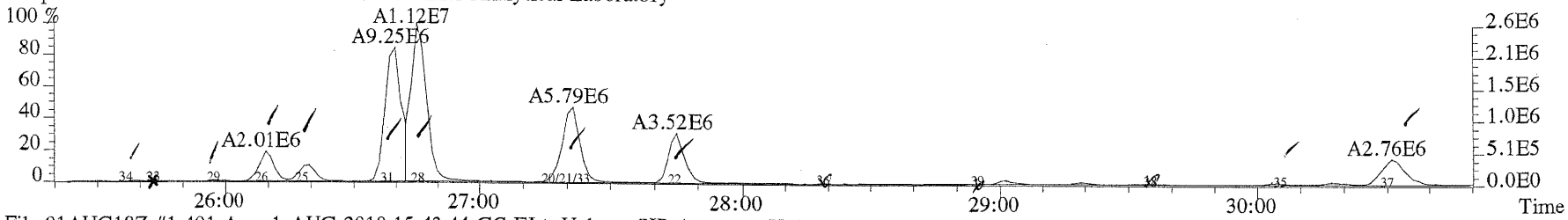
File:01AUG18Z #1-520 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



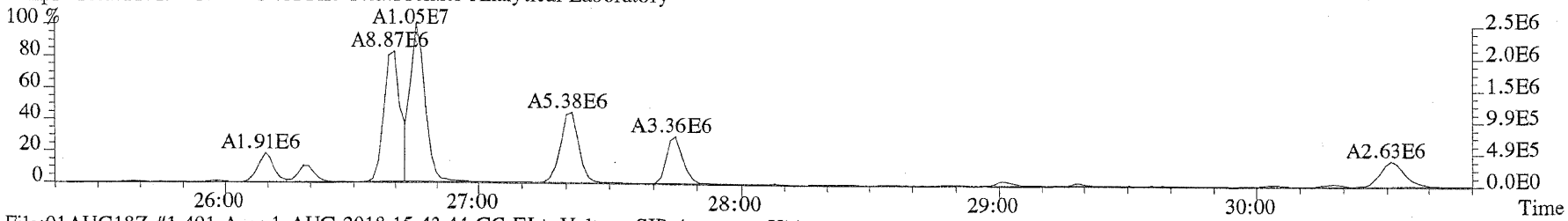
File:01AUG18Z #1-520 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



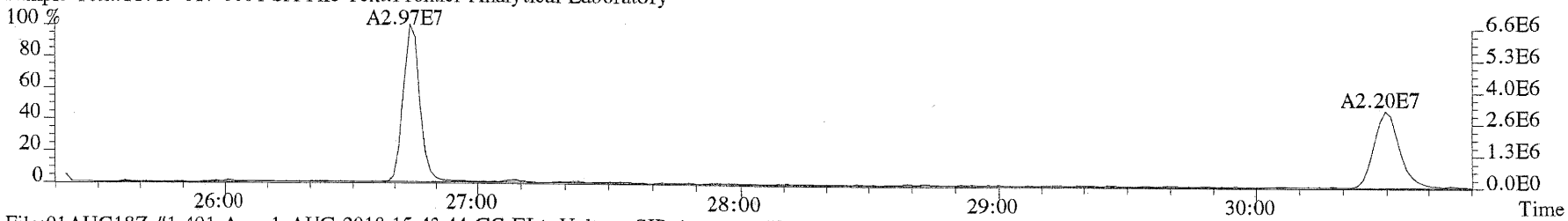
File:01AUG18Z #1-401 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



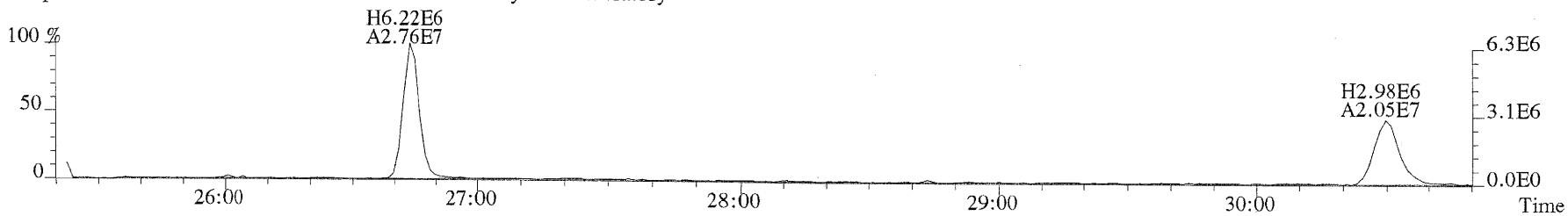
File:01AUG18Z #1-401 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



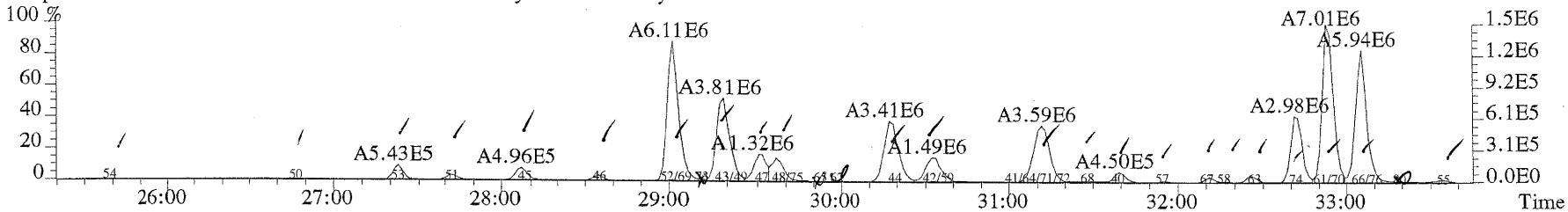
File:01AUG18Z #1-401 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



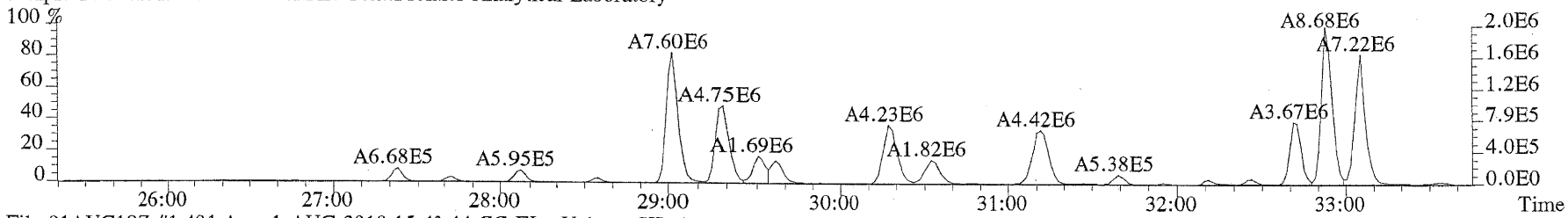
File:01AUG18Z #1-401 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



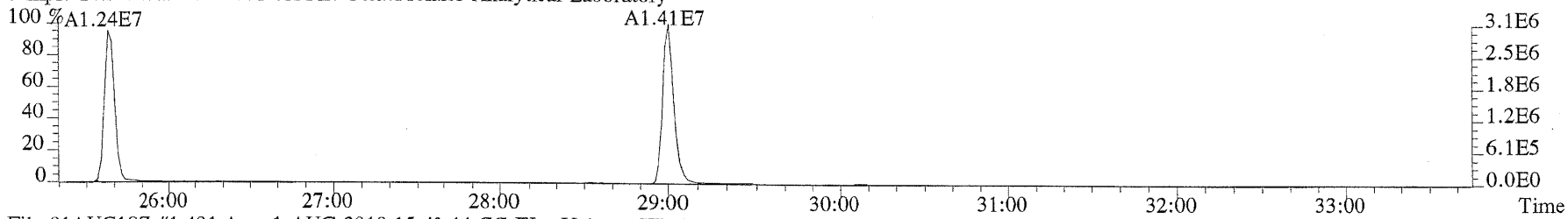
File:01AUG18Z #1-401 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



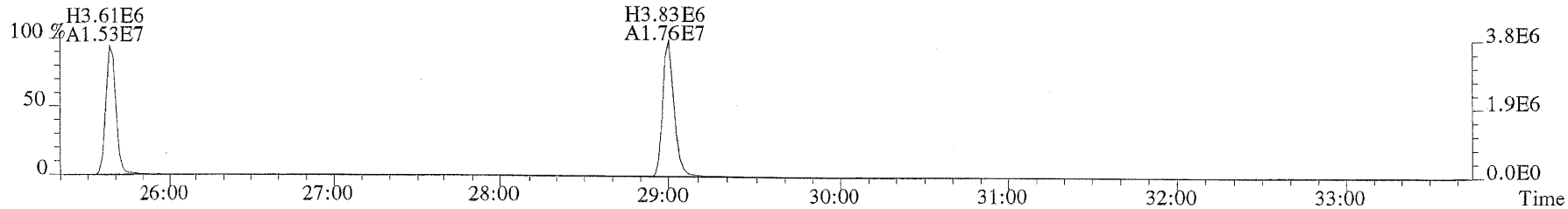
File:01AUG18Z #1-401 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



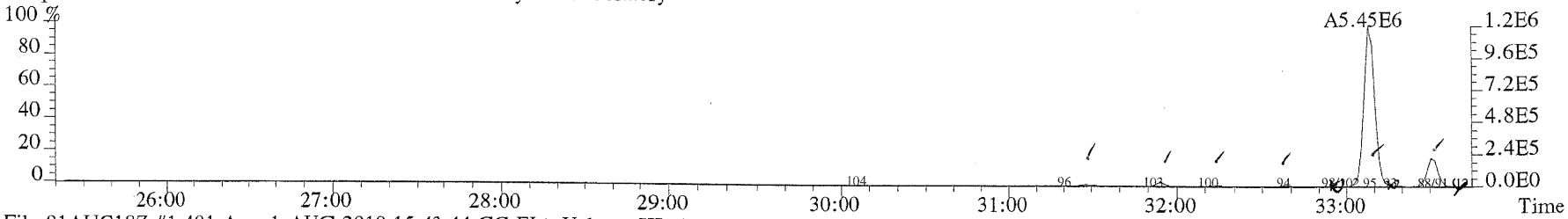
File:01AUG18Z #1-401 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



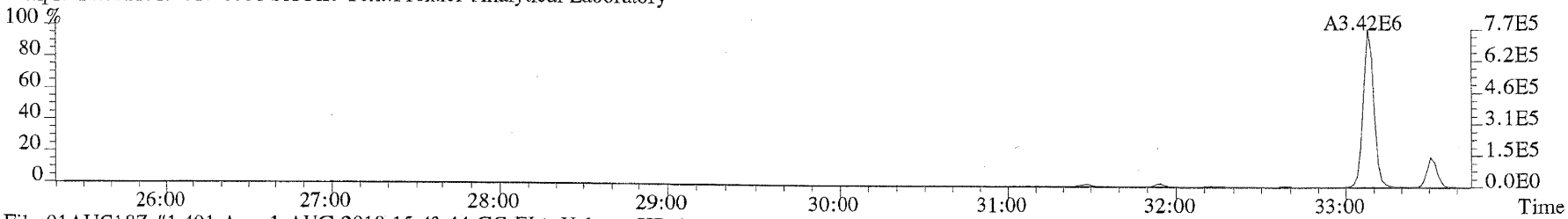
File:01AUG18Z #1-401 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



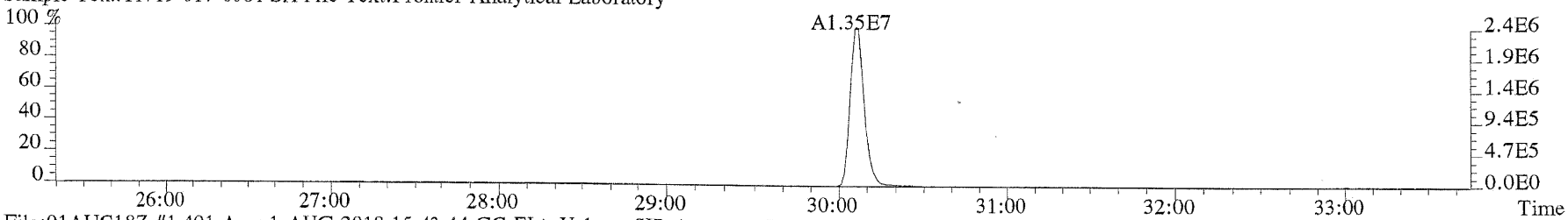
File:01AUG18Z #1-401 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



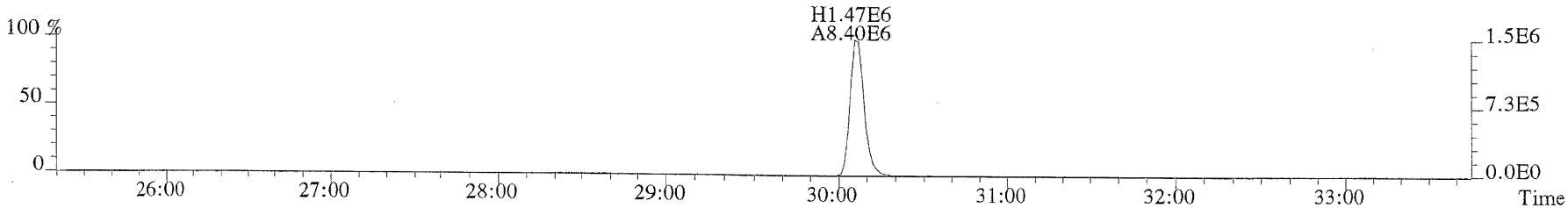
File:01AUG18Z #1-401 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



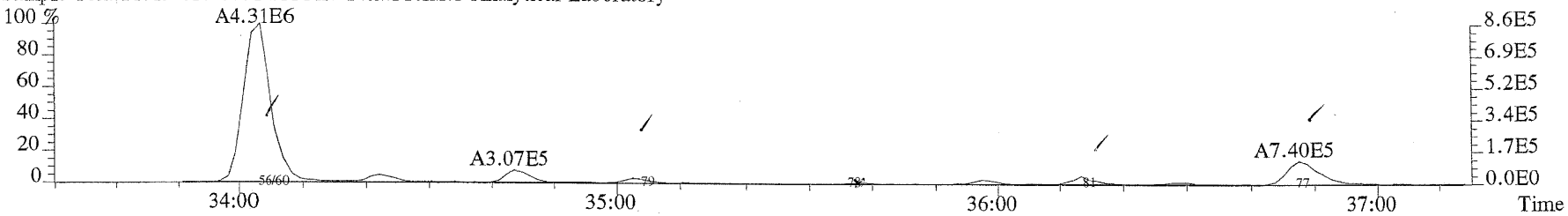
File:01AUG18Z #1-401 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



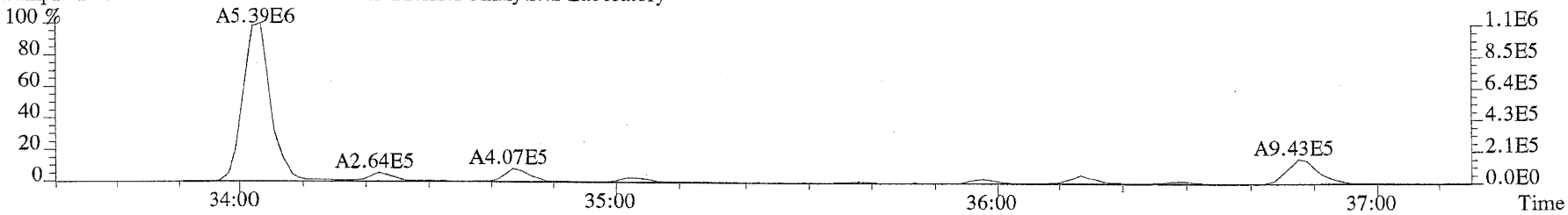
File:01AUG18Z #1-401 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



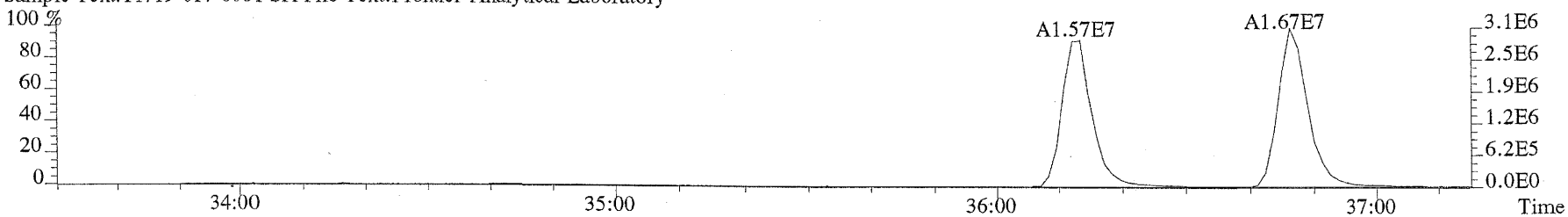
File:01AUG18Z #1-183 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



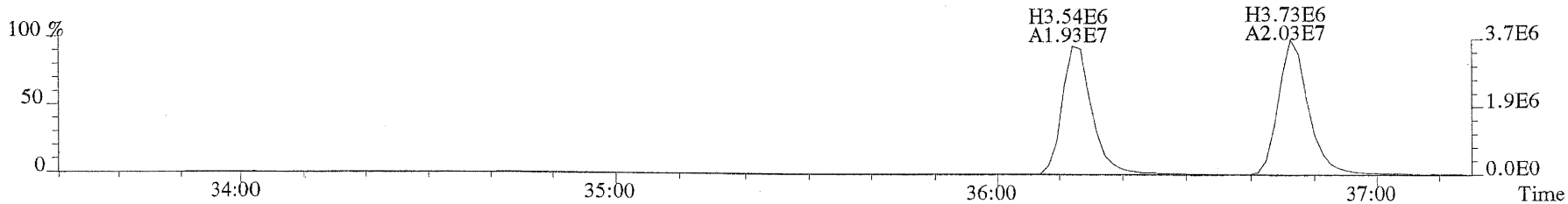
File:01AUG18Z #1-183 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



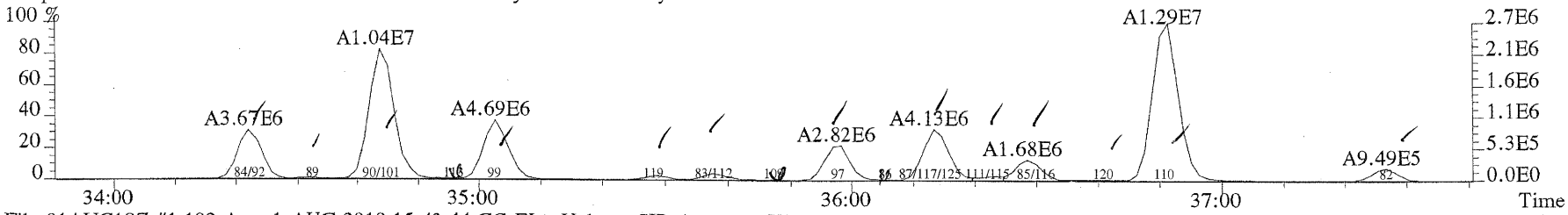
File:01AUG18Z #1-183 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



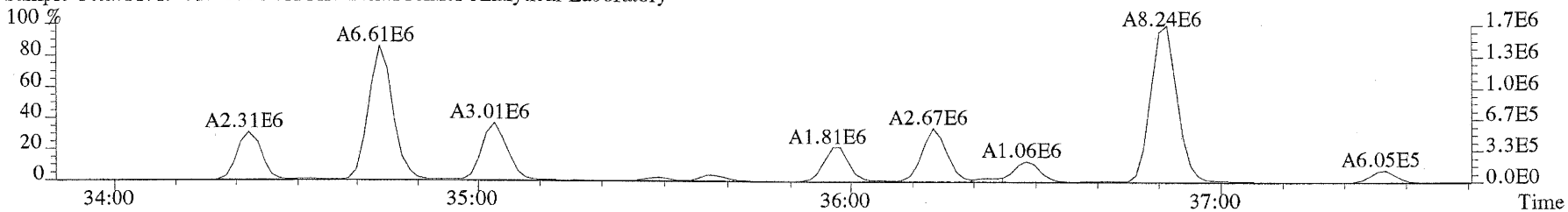
File:01AUG18Z #1-183 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



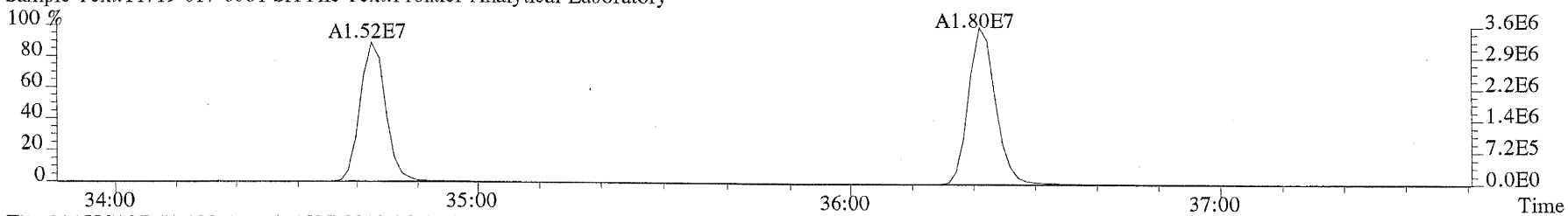
File:01AUG18Z #1-183 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



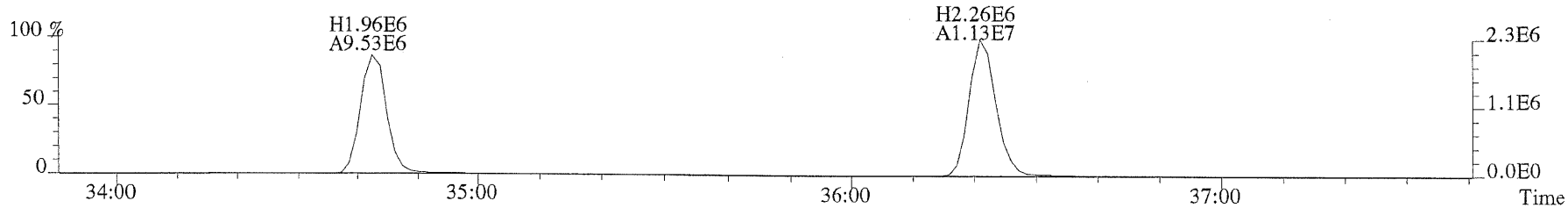
File:01AUG18Z #1-183 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



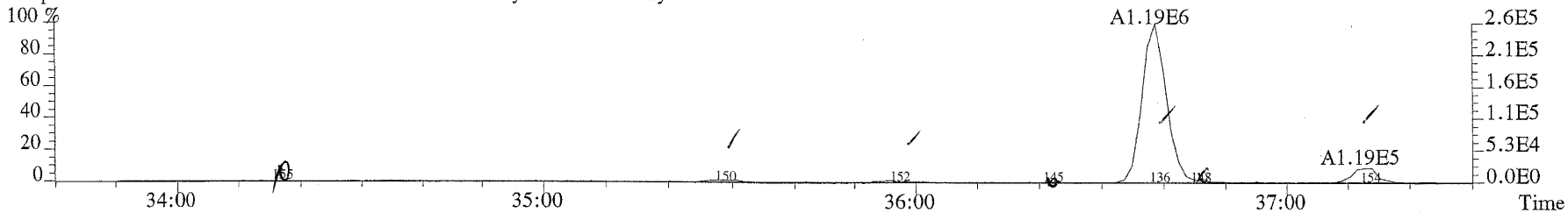
File:01AUG18Z #1-183 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-183 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory

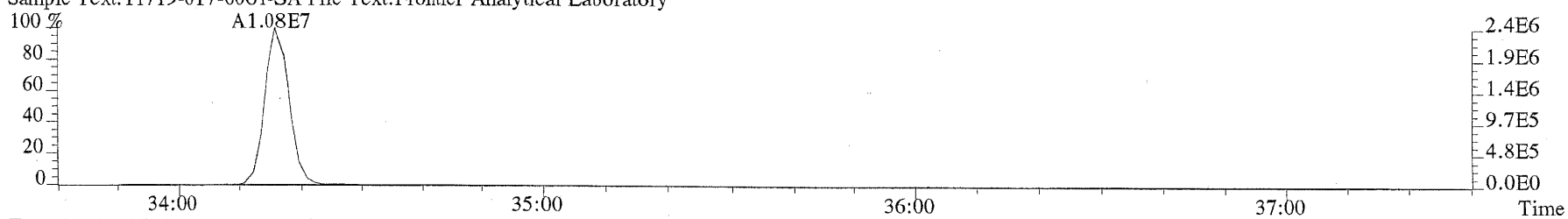


File:01AUG18Z #1-183 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory

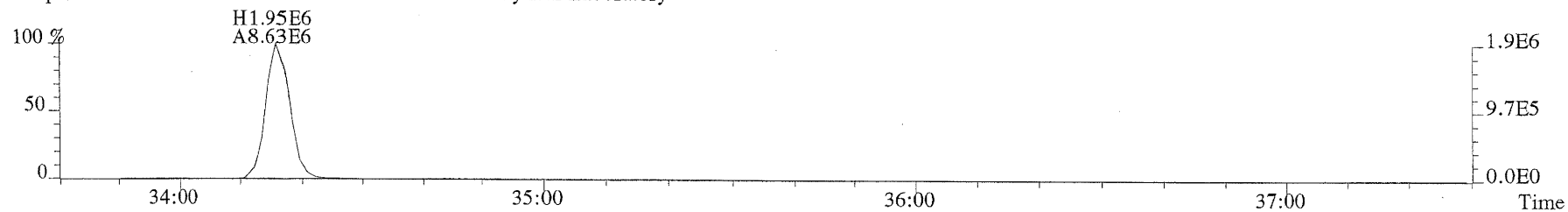


File:01AUG18Z #1-183 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory

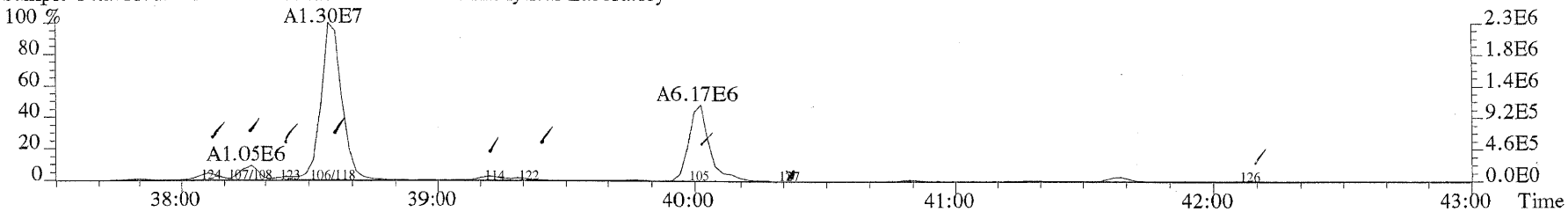
File:01AUG18Z #1-183 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



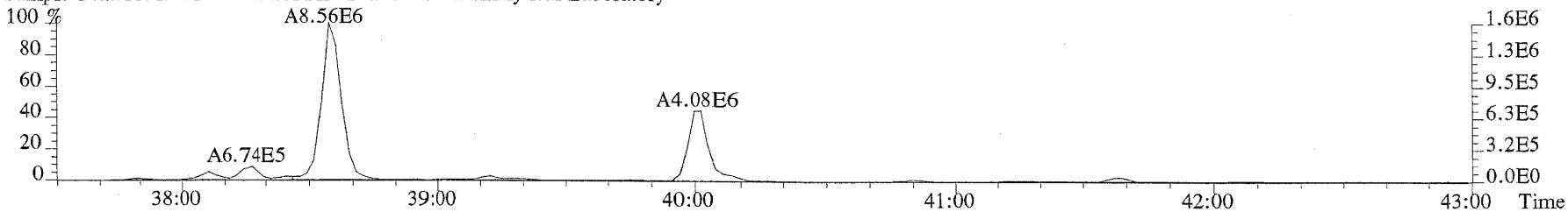
File:01AUG18Z #1-183 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



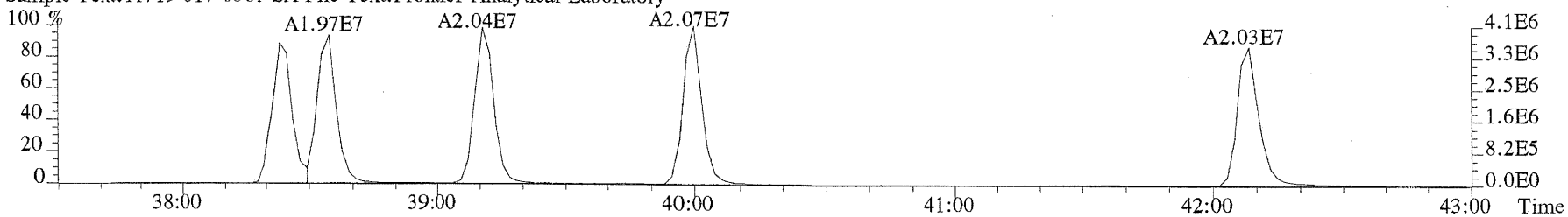
File:01AUG18Z #1-404 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



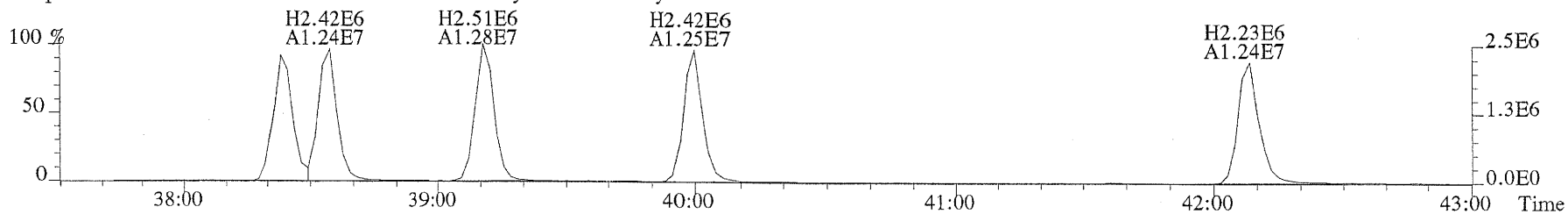
File:01AUG18Z #1-404 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



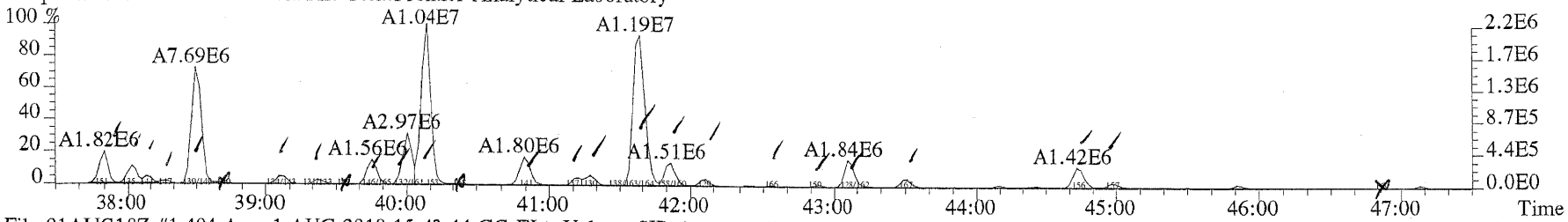
File:01AUG18Z #1-404 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



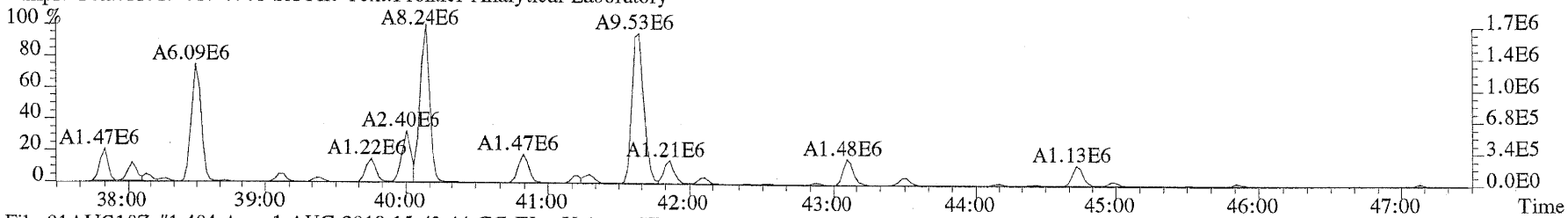
File:01AUG18Z #1-404 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



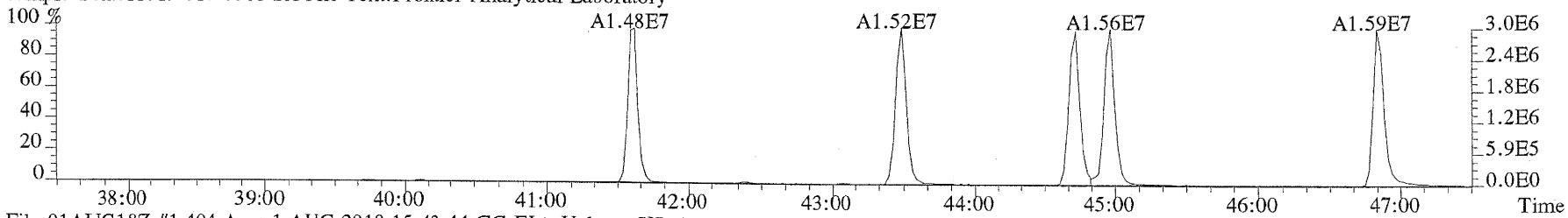
File:01AUG18Z #1-404 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



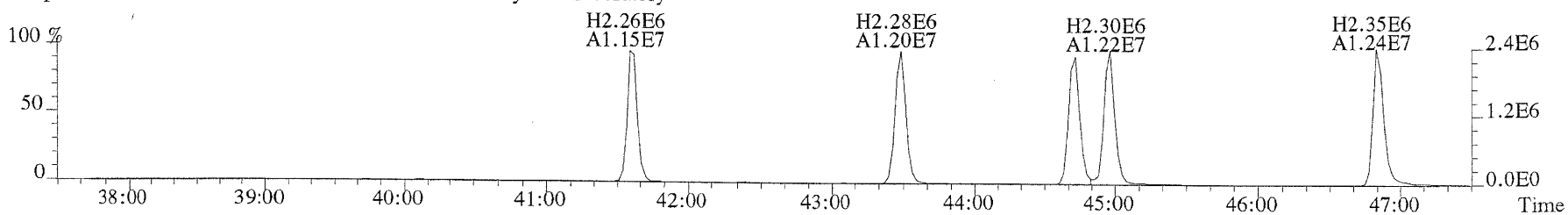
File:01AUG18Z #1-404 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-404 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 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:11719-017-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-404 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 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:11719-017-0001-SA File Text:Frontier Analytical Laboratory



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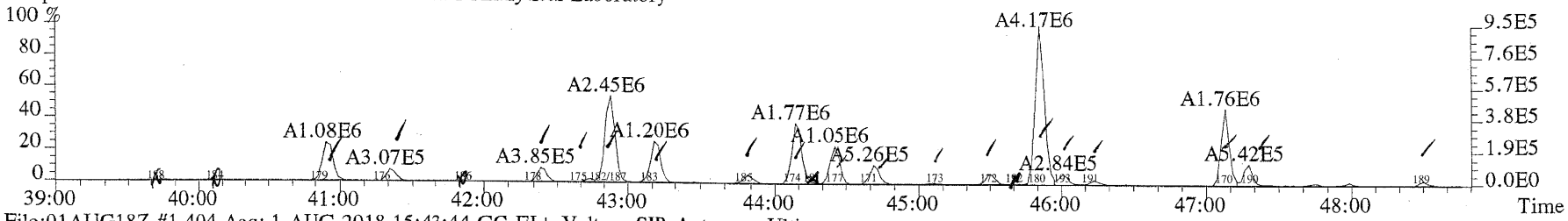
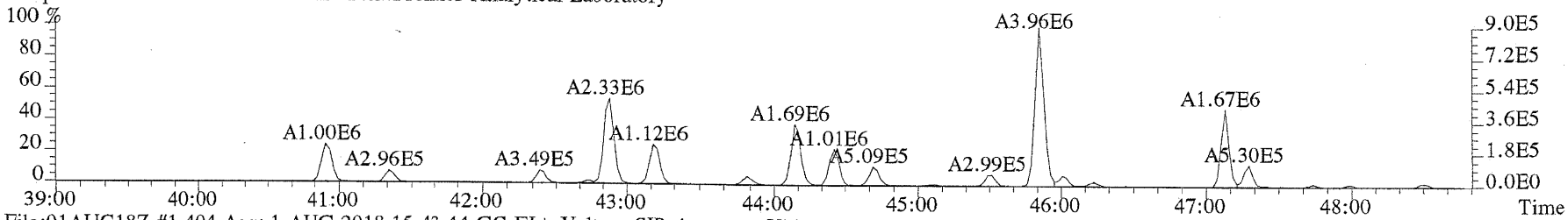
393.8025 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-404 Acq: 1-AUG-2018 15:43:44 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:11719-017-0001-SA File Text:Frontier Analytical Laboratory



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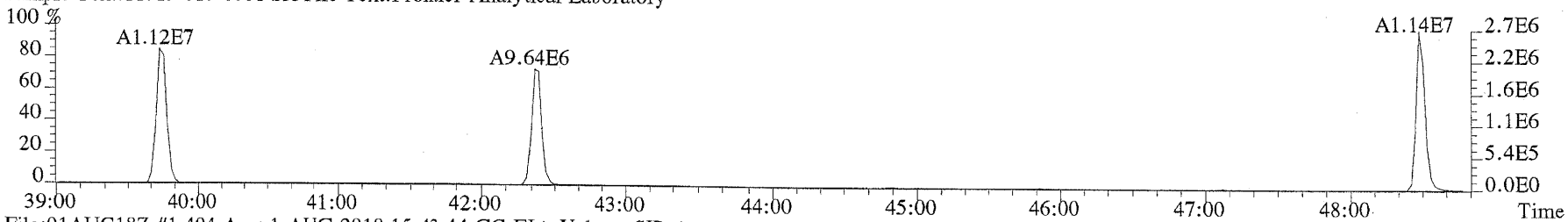
405.8428 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



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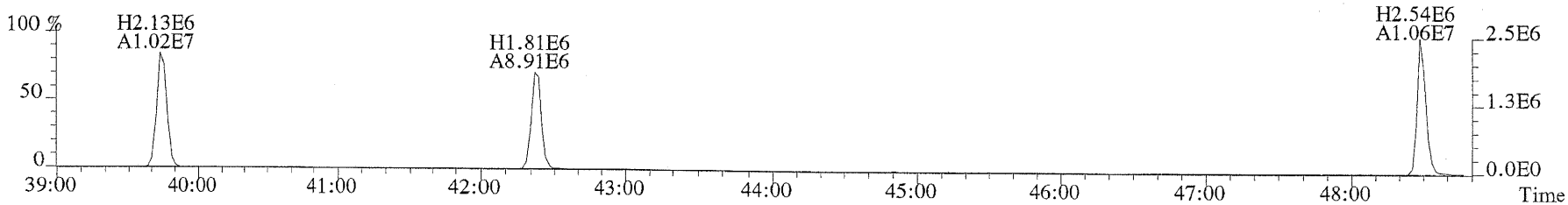
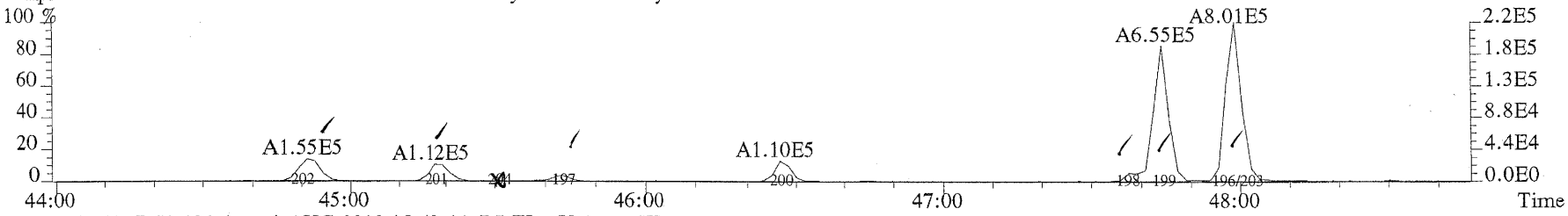
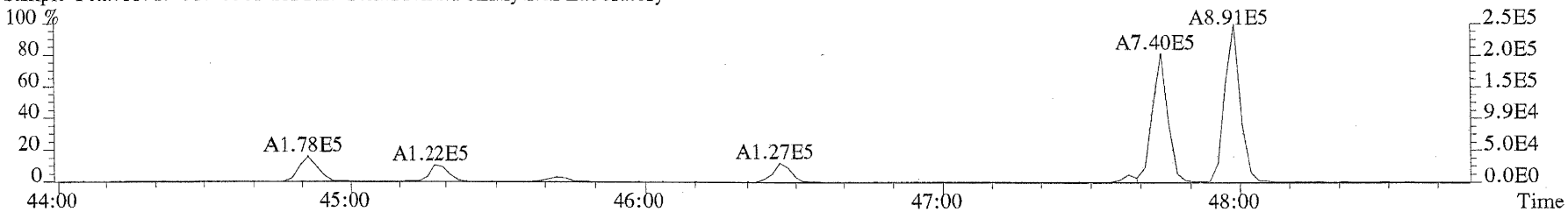
407.8398 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



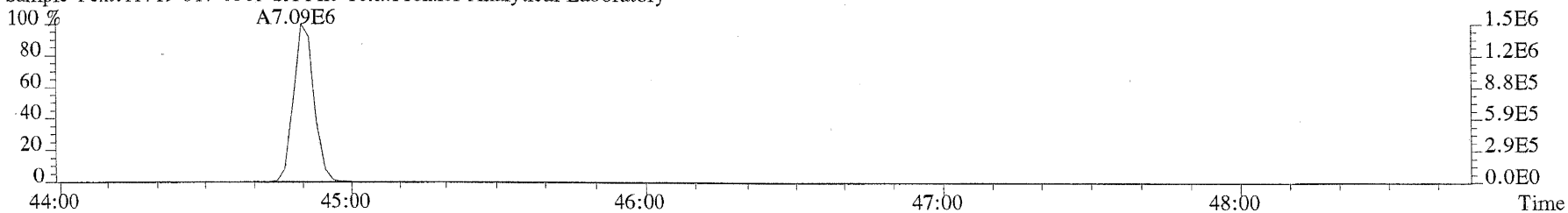
File:01AUG18Z #1-404 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



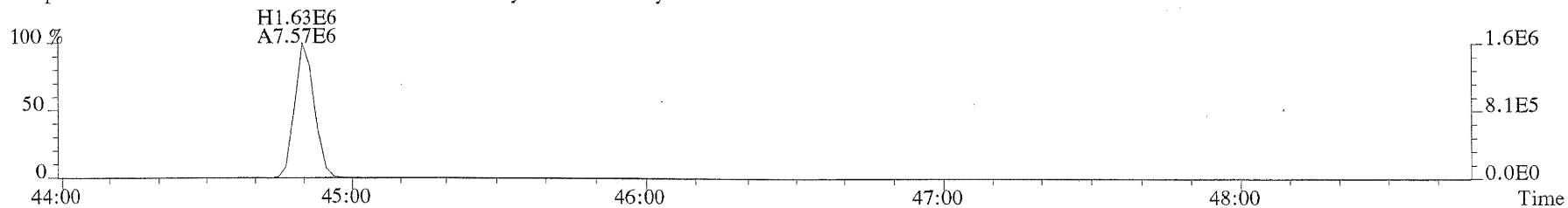
File:01AUG18Z #1-404 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



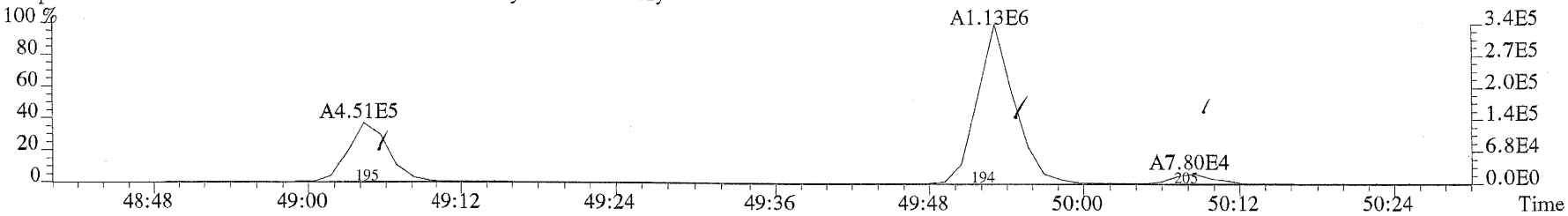
File:01AUG18Z #1-404 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



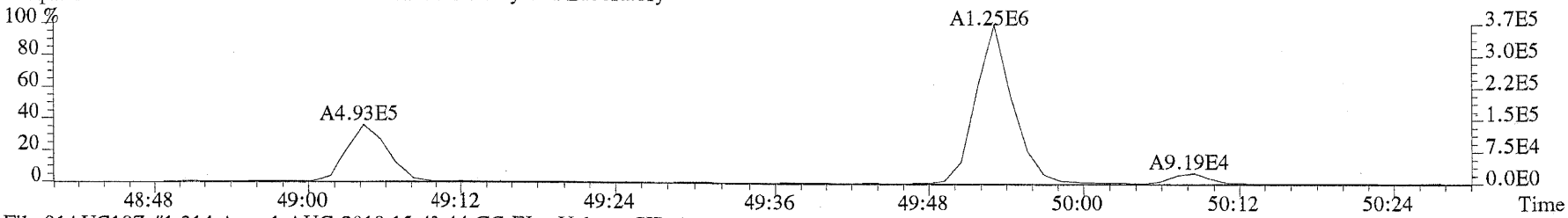
File:01AUG18Z #1-404 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



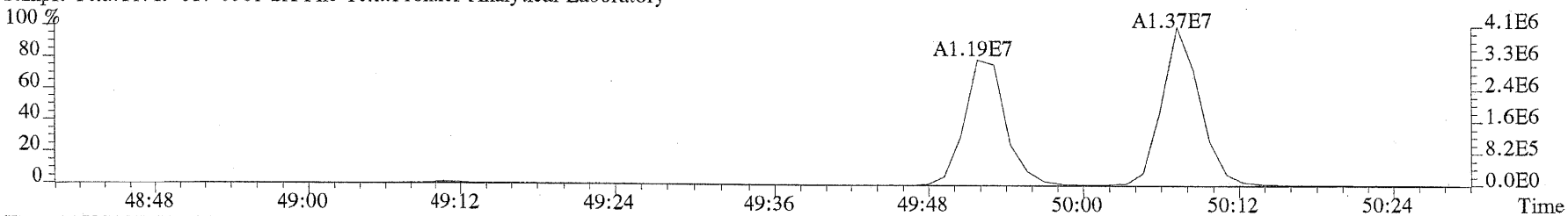
File:01AUG18Z #1-314 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



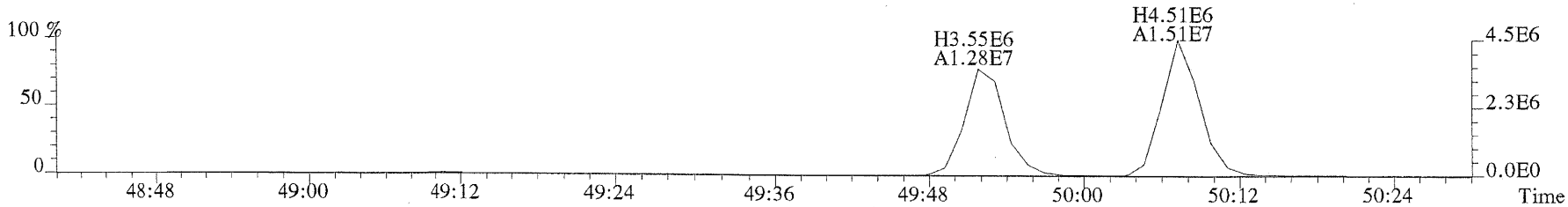
File:01AUG18Z #1-314 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



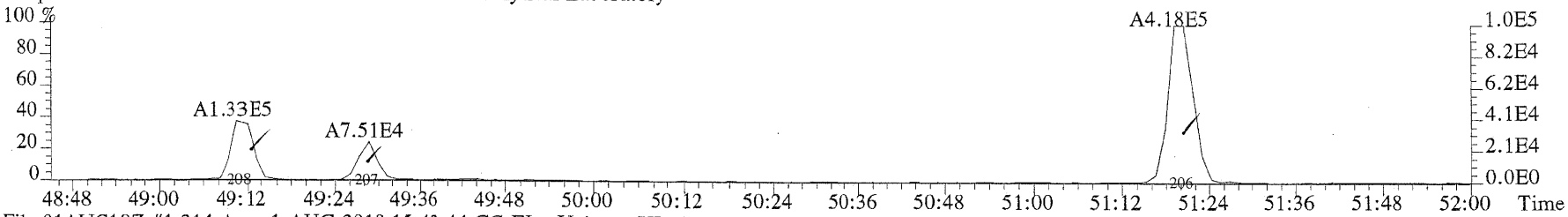
File:01AUG18Z #1-314 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



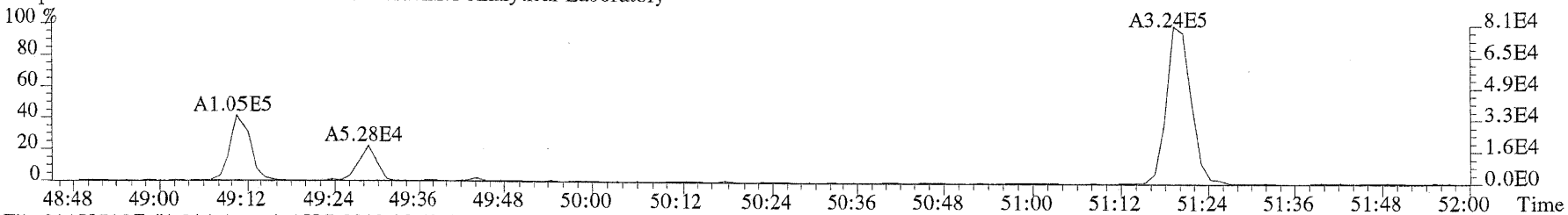
File:01AUG18Z #1-314 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



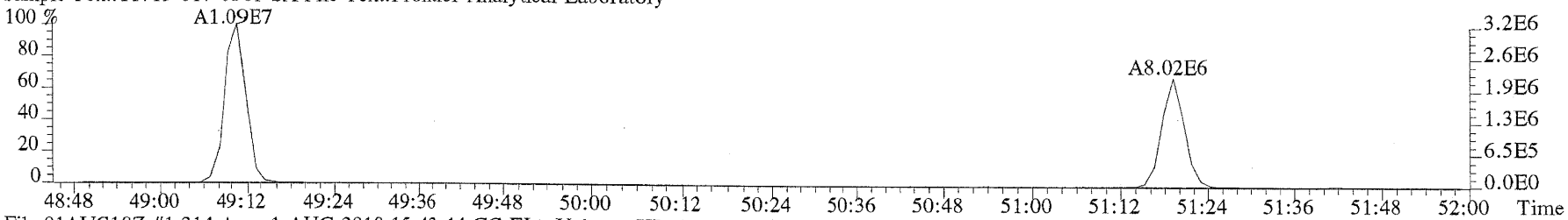
File:01AUG18Z #1-314 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



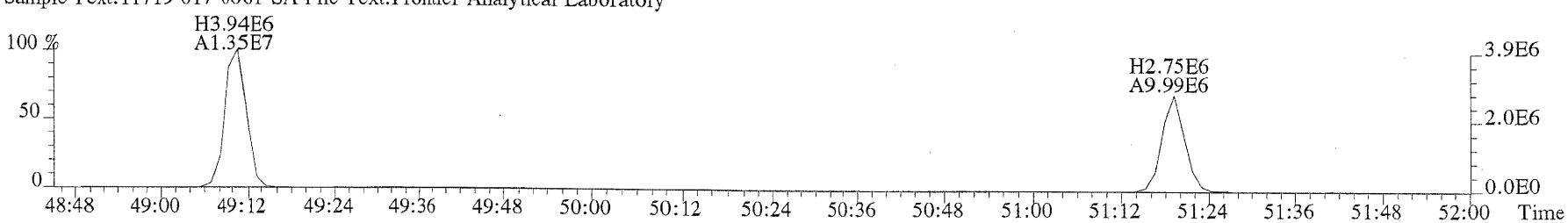
File:01AUG18Z #1-314 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



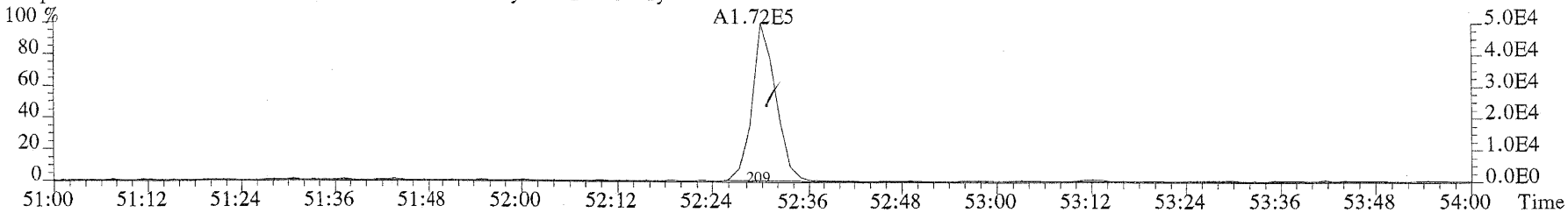
File:01AUG18Z #1-314 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



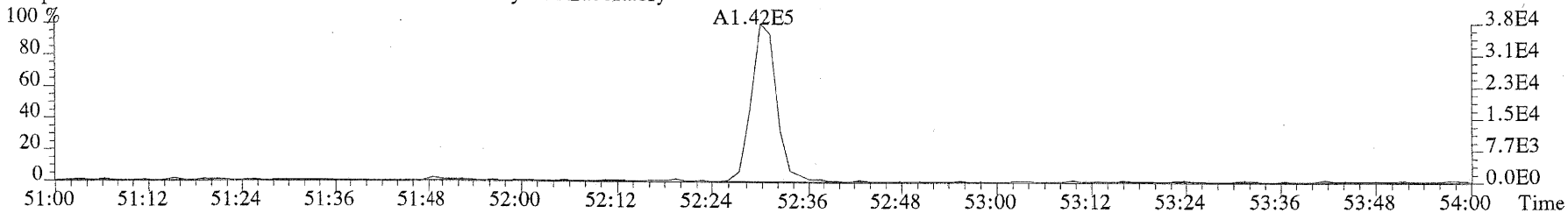
File:01AUG18Z #1-314 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



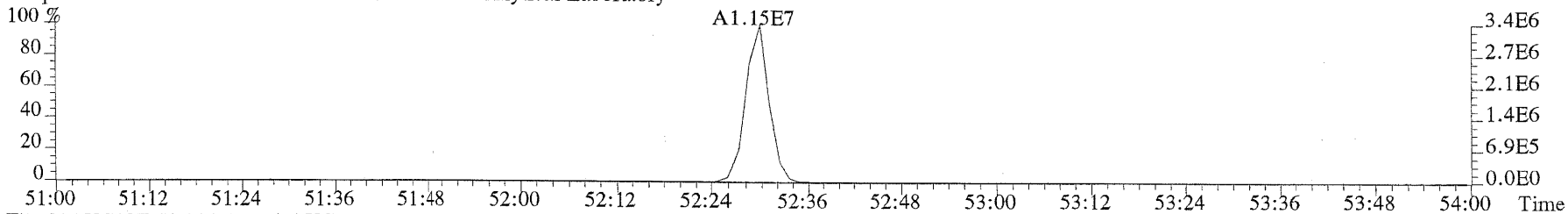
File:01AUG18Z #1-314 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



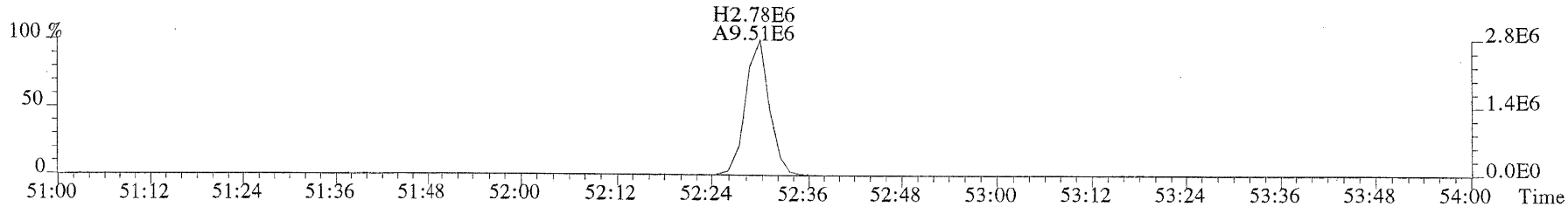
File:01AUG18Z #1-314 Acq: 1-AUG-2018 15:43:44 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-017-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-314 Acq: 1-AUG-2018 15:43:44 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:11719-017-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-314 Acq: 1-AUG-2018 15:43:44 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:11719-017-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 11719-018-0001-SA Filename: 01AUG18Z Sam:8 Acquired: 1-AUG-18 16:42:30 ICal: DAILY209FAL4-8-1-18
Client ID: LDW-Y1-SU-ENR+AC-CC-CORE ConCal: ST080118Z1 EndCal: ST080118Z2
Results: 11719-16 GC Column: DB1MS Amount: 5.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	5.24e+05	2.93 y	14:32	1.14	28.0		-	-	*			
13C-PCB-1	3.28e+07	3.09 y	14:31	1.01	1760					88.2	7.63e+06	2.42e+06
PCB-2	6.68e+04	3.13 y	16:46	1.03	3.95	J	-	-	*			
PCB-3	4.03e+05	3.06 y	16:59	1.13	21.8		-	-	*			
13C-PCB-3	3.29e+07	3.20 y	16:58	1.02	1750					87.3	6.73e+06	2.04e+06
PCB-4	9.81e+05	1.56 y	18:13	1.33	67.5		-	-	*			
PCB-10	1.08e+05	1.44 y	18:17	1.25	5.89		-	-	*			
13C-PCB-4	2.19e+07	1.61 y	18:12	0.66	1790					89.5	3.64e+06	2.25e+06
PCB-9	4.52e+05	1.51 y	19:56	1.37	22.4		-	-	*			
PCB-7	2.60e+05	1.59 y	19:58	1.37	12.9		-	-	*			
PCB-6	1.40e+06	1.50 y	20:33	1.33	71.7		-	-	*			
PCB-8	4.96e+06	1.52 y	20:55	1.38	245		-	-	*			
PCB-5	1.08e+05	1.44 y	18:17	1.38	5.34		-	-	*			
PCB-14	*	* n	NotFnd	1.29	*		544	1540	1.11			
PCB-11	2.51e+05	1.48 y	23:08	1.23	13.8		-	-	*			
PCB-13	1.93e+05	1.51 y	23:26	1.31	10.0		-	-	*			
PCB-12	4.80e+05	1.49 y	23:28	1.32	24.7		-	-	*			
PCB-15	2.94e+06	1.55 y	23:48	1.24	128		-	-	*			
13C-PCB-15	3.70e+07	1.65 y	23:47	1.05	1920					96.0	5.25e+06	3.18e+06
PCB-19	3.34e+05	1.18 y	22:07	1.14	33.0		-	-	*			
PCB-30	*	* n	NotFnd	1.57	*		680	640	1.00			
PCB-18	4.23e+06	1.06 y	23:40	1.10	435		-	-	*			
PCB-17	2.19e+06	1.10 y	23:51	1.20	206		-	-	*			
PCB-27	3.27e+05	1.16 y	24:22	1.57	23.5		-	-	*			
PCB-24	2.31e+05	1.11 y	24:24	1.55	16.8		-	-	*			
PCB-16	1.35e+06	1.08 y	24:51	1.29	118		-	-	*			
PCB-32	1.89e+06	1.06 y	24:53	1.40	152		-	-	*			
13C-PCB-19	1.77e+07	1.03 y	22:06	0.47	2050					102	2.16e+06	2.06e+06
13C-PCB-9	3.69e+07	1.63 y	19:54	-	8.11							
PCB-34	1.07e+05	1.08 y	25:40	1.05	7.64		-	-	*			
PCB-23	*	* n	NotFnd	1.24	*		630	681	1.26			
PCB-29	1.06e+05	1.11 y	25:58	1.21	6.54		-	-	*			
PCB-26	2.72e+06	1.03 y	26:09	1.18	174		-	-	*			
PCB-25	1.66e+06	1.10 y	26:19	1.51	82.9		-	-	*			
PCB-31	1.12e+07	0.98 y	26:40	1.23	686		-	-	*			
PCB-28	1.42e+07	1.02 y	26:46	1.43	750		-	-	*			
PCB-20	7.06e+06	1.05 y	27:21	1.25	423		-	-	*		Co-elute PCB 21/33	
PCB-21	7.06e+06	1.05 y	27:21	1.25	423		-	-	*		Co-elute PCB 20/33	
PCB-33	7.06e+06	1.05 y	27:21	1.25	423		-	-	*		Co-elute PCB 20/21	
PCB-22	4.35e+06	1.06 y	27:45	1.29	254		-	-	*			
PCB-36	*	* n	NotFnd	1.15	*		630	681	1.36			
PCB-39	*	* n	NotFnd	1.20	*		630	681	1.31			
PCB-38	*	* n	NotFnd	1.18	*		630	681	1.32			
PCB-35	2.64e+05	1.02 y	30:03	1.10	18.1		-	-	*			
PCB-37	2.89e+06	1.10 y	30:32	1.28	169		-	-	*			
13C-PCB-37	2.66e+07	1.03 y	30:30	1.72	1540					76.9	2.13e+06	2.05e+06

PCB-54	2.01e+04	0.82	y	25:39	1.10	1.83	J	-	-	*	
PCB-50	3.35e+04	0.84	y	26:47	0.85	3.94	J	-	-	*	
PCB-53	9.34e+05	0.81	y	27:23	0.88	106		-	-	*	
PCB-51	3.23e+05	0.86	y	27:43	0.92	35.3		-	-	*	
PCB-45	7.50e+05	0.78	y	28:07	0.76	98.1		-	-	*	
PCB-46	3.00e+05	0.77	y	28:35	0.74	40.3		-	-	*	
PCB-52	1.20e+07	0.81	y	29:01	1.05	1140		-	-	*	Co-elute PCB 69
PCB-69	1.20e+07	0.81	y	29:01	1.05	1140		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.21	*		588	650	1.07	
PCB-43	7.65e+06	0.80	y	29:19	0.85	898		-	-	*	Co-elute PCB 49
PCB-49	7.65e+06	0.80	y	29:19	0.85	898		-	-	*	Co-elute PCB 43
PCB-47	2.33e+06	0.76	y	29:32	1.14	203		-	-	*	
PCB-48	1.95e+06	0.81	y	29:37	1.03	189		-	-	*	Co-elute PCB 75
PCB-75	1.95e+06	0.81	y	29:37	1.03	189		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.09	*		588	650	1.19	
PCB-62	*	*	n	NotFnd	1.19	*		588	650	1.08	
PCB-44	5.74e+06	0.81	y	30:18	0.81	712		-	-	*	
PCB-42	2.38e+06	0.78	y	30:32	1.05	226		-	-	*	Co-elute PCB 59
PCB-59	2.38e+06	0.78	y	30:32	1.05	226		-	-	*	Co-elute PCB 42
PCB-72	5.47e+06	0.78	y	31:11	1.13	486		-	-	*	Co-elute PCB 41/71/64
PCB-41	5.47e+06	0.78	y	31:11	1.13	486		-	-	*	Co-elute PCB 72/71/64
PCB-71	5.47e+06	0.78	y	31:11	1.13	486		-	-	*	Co-elute PCB 72/41/64
PCB-64	5.47e+06	0.78	y	31:11	1.13	486		-	-	*	Co-elute PCB 72/41/71
PCB-68	1.39e+05	0.73	y	31:29	1.24	11.2		-	-	*	
PCB-40	6.76e+05	0.75	y	31:39	0.71	95.6		-	-	*	
PCB-57	7.72e+04	0.85	y	31:56	1.11	6.97		-	-	*	
PCB-67	3.92e+05	0.88	y	32:12	1.10	35.7		-	-	*	
PCB-58	6.14e+04	0.87	y	32:17	1.13	5.41		-	-	*	
PCB-63	4.67e+05	0.78	y	32:27	1.17	39.9		-	-	*	
PCB-74	5.21e+06	0.80	y	32:42	1.19	439		-	-	*	
PCB-61	1.28e+07	0.80	y	32:54	1.22	1050		-	-	*	Co-elute PCB 70
PCB-70	1.28e+07	0.80	y	32:54	1.22	1050		-	-	*	Co-elute PCB 61
PCB-76	1.04e+07	0.82	y	33:05	1.17	886		-	-	*	Co-elute PCB 66
PCB-66	1.04e+07	0.82	y	33:05	1.17	886		-	-	*	Co-elute PCB 76
PCB-80	7.24e+04	0.77	y	33:18	1.31	5.51		-	-	*	
PCB-55	2.23e+05	0.74	y	33:34	1.16	19.2		-	-	*	
13C-PCB-54	2.00e+07	0.81	y	25:39	1.13	1760					88.0
PCB-104	*	*	n	NotFnd	1.22	*		276	260	0.752	
PCB-96	7.74e+04	1.44	y	31:29	1.08	9.45		-	-	*	
PCB-103	2.77e+05	1.56	y	31:56	0.92	39.9		-	-	*	
PCB-100	8.03e+04	1.69	y	32:15	0.95	11.2		-	-	*	
PCB-94	4.74e+04	1.40	y	32:39	0.79	7.94		-	-	*	
PCB-98	*	*	n	NotFnd	0.97	*		276	260	0.943	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.97	*		276	260	0.943	Co-elute PCB 98
PCB-95	8.59e+06	1.62	y	33:09	0.89	1280		-	-	*	
PCB-93	*	*	n	NotFnd	0.78	*		276	260	1.18	
PCB-88	1.46e+06	1.61	y	33:32	0.84	231		-	-	*	Co-elute PCB 91
PCB-91	1.46e+06	1.61	y	33:32	0.84	231		-	-	*	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	1.19	*		276	260	0.770	
13C-PCB-104	1.52e+07	1.58	y	30:07	0.71	2120					106
13C-PCB-28	3.63e+07	1.11	y	26:45	1.98	1830					91.4
13C-PCB-52	2.01e+07	0.80	y	28:60	-	8.71					

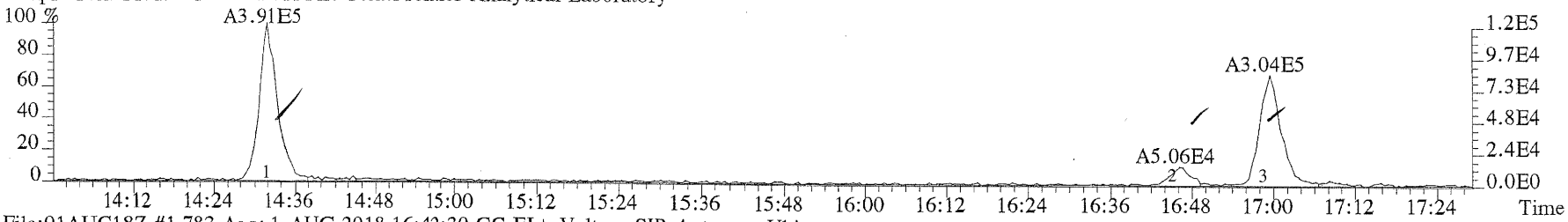
PCB-56	7.03e+06	0.78	y	34:03	1.08	528	-	-	*	Co-elute PCB 60
PCB-60	7.03e+06	0.78	y	34:03	1.08	528	-	-	*	Co-elute PCB 56
PCB-79	2.66e+05	0.70	y	35:02	1.14	18.8	-	-	*	
PCB-78	*	*	n	NotFnd	1.15	*	680	750	1.40	
PCB-81	2.88e+05	0.84	y	36:15	1.20	20.3	-	-	*	
13C-PCB-81	2.36e+07	0.82	y	36:13	1.61	1910				95.4
PCB-77	1.13e+06	0.77	y	36:49	1.17	75.0	-	-	*	
13C-PCB-77	2.58e+07	0.82	y	36:46	1.65	2030				102
PCB-155	*	*	n	NotFnd	1.13	*	196	392	0.830	
PCB-150	5.55e+04	1.33	y	35:28	1.02	7.78	-	-	*	
PCB-152	*	*	n	NotFnd	0.98	*	196	392	0.953	
PCB-145	*	*	n	NotFnd	0.99	*	196	392	0.942	
PCB-136	2.32e+06	1.25	y	36:39	0.95	350	-	-	*	
PCB-148	*	*	n	NotFnd	0.76	*	196	392	1.23	
PCB-154	4.32e+05	1.38	y	37:13	0.90	68.7	-	-	*	
13C-PCB-155	1.40e+07	1.28	y	34:16	0.97	1870				93.3
13C-PCB-111	1.81e+07	1.62	y	36:22	1.24	1910				95.3
13C-PCB-101	1.54e+07	1.63	y	34:42	-	8.20				
PCB-84	5.85e+06	1.53	y	34:22	0.60	816	-	-	*	Co-elute PCB 92
PCB-92	5.85e+06	1.53	y	34:22	0.60	816	-	-	*	Co-elute PCB 84
PCB-89	1.73e+05	1.61	y	34:32	0.59	24.4	-	-	*	
PCB-90	1.62e+07	1.59	y	34:44	0.68	1970	-	-	*	Co-elute PCB 101
PCB-101	1.62e+07	1.59	y	34:44	0.68	1970	-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.79	*	650	460	1.50	
PCB-99	7.82e+06	1.54	y	35:02	0.75	866	-	-	*	
PCB-119	6.80e+05	1.60	y	35:29	0.84	67.4	-	-	*	
PCB-83	7.23e+05	1.54	y	35:38	0.69	86.8	-	-	*	Co-elute PCB 112
PCB-112	7.23e+05	1.54	y	35:38	0.69	86.8	-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.90	*	650	460	1.32	
PCB-97	4.05e+06	1.60	y	35:58	0.74	457	-	-	*	
PCB-86	*	*	n	NotFnd	0.65	*	650	460	1.82	
PCB-125	5.50e+06	1.61	y	36:15	0.76	602	-	-	*	Co-elute PCB 87/117
PCB-87	5.50e+06	1.61	y	36:15	0.76	602	-	-	*	Co-elute PCB 125/117
PCB-117	5.50e+06	1.61	y	36:15	0.76	602	-	-	*	Co-elute PCB 125/87
PCB-111	2.64e+05	1.57	y	36:22	1.02	21.4	-	-	*	Co-elute PCB 115
PCB-115	2.64e+05	1.57	y	36:22	1.02	21.4	-	-	*	Co-elute PCB 111
PCB-85	2.39e+06	1.62	y	36:28	0.71	278	-	-	*	Co-elute PCB 116
PCB-116	2.39e+06	1.62	y	36:28	0.71	278	-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	0.86	*	650	460	1.38	
PCB-110	1.91e+07	1.60	y	36:51	1.00	1590	-	-	*	
PCB-82	1.36e+06	1.54	y	37:27	0.50	225	-	-	*	
PCB-124	8.32e+05	1.57	y	38:06	1.04	66.3	-	-	*	
PCB-108	1.78e+06	1.55	y	38:16	1.05	142	-	-	*	Co-elute PCB 107
PCB-107	1.78e+06	1.55	y	38:16	1.05	142	-	-	*	Co-elute PCB 108
PCB-123	4.07e+05	1.48	y	38:24	1.45	23.7	-	-	*	
13C-PCB-123	2.37e+07	1.59	y	38:23	1.31	2170				108
PCB-118	2.09e+07	1.51	y	38:36	1.05	1580	-	-	*	Co-elute PCB 106
PCB-106	2.09e+07	1.51	y	38:36	1.05	1580	-	-	*	Co-elute PCB 118
13C-PCB-118	2.51e+07	1.63	y	38:34	1.57	1920				95.9
PCB-114	4.77e+05	1.50	y	39:12	1.13	35.7	-	-	*	
13C-PCB-114	2.36e+07	1.56	y	39:10	1.46	1940				97.0
PCB-122	2.96e+05	1.46	y	39:19	1.12	22.0	-	-	*	
PCB-105	8.09e+06	1.55	y	40:01	1.12	609	-	-	*	
13C-PCB-105	2.37e+07	1.63	y	39:60	1.43	1990				99.4

PCB-127	*	*	n	NotFnd	1.06	*	802	560	1.38		
PCB-126	9.81e+04	1.59	y	42:07	1.15	7.27	-	-	*		
13C-PCB-126	2.34e+07	1.64	y	42:08	1.37	2050				102	
PCB-151	4.06e+06	1.22	y	37:50	0.66	634	-	-	*		
PCB-135	2.33e+06	1.29	y	38:01	0.76	317	-	-	*		
PCB-144	8.09e+05	1.39	y	38:08	0.75	112	-	-	*		
PCB-147	3.69e+05	1.39	y	38:16	0.85	44.9	-	-	*		
PCB-139	1.58e+07	1.28	y	38:29	0.86	1910	-	-	*	Co-elute PCB 149	
PCB-149	1.58e+07	1.28	y	38:29	0.86	1910	-	-	*	Co-elute PCB 139	
PCB-140	2.50e+05	1.35	y	38:41	0.86	30.1	-	-	*		
PCB-143	8.94e+05	1.22	y	39:07	0.81	114	-	-	*	Co-elute PCB 134	
PCB-134	8.94e+05	1.22	y	39:07	0.81	114	-	-	*	Co-elute PCB 143	
PCB-131	5.84e+05	1.22	y	39:22	0.81	75.1	-	-	*	Co-elute PCB 133	
PCB-133	5.84e+05	1.22	y	39:22	0.81	75.1	-	-	*	Co-elute PCB 131	
PCB-142	*	*	n	NotFnd	0.74	*	510	390	1.66		
PCB-165	3.85e+06	1.26	y	39:45	0.98	406	-	-	*	Co-elute PCB 146	
PCB-146	3.85e+06	1.26	y	39:45	0.98	406	-	-	*	Co-elute PCB 165	
PCB-161	5.36e+06	1.22	y	40:00	0.89	627	-	-	*	Co-elute PCB 132	
PCB-132	5.36e+06	1.22	y	40:00	0.89	627	-	-	*	Co-elute PCB 161	
PCB-153	2.05e+07	1.28	y	40:08	0.98	2160	-	-	*		
PCB-168	*	*	n	NotFnd	1.12	*	510	390	1.09		
PCB-141	2.93e+06	1.29	y	40:49	0.86	353	-	-	*		
PCB-137	6.73e+05	1.18	y	41:12	0.77	90.4	-	-	*		
PCB-130	1.28e+06	1.23	y	41:17	0.86	154	-	-	*		
PCB-138	2.07e+07	1.25	y	41:39	1.09	1970	-	-	*	Co-elute PCB 163/164	
PCB-163	2.07e+07	1.25	y	41:39	1.09	1970	-	-	*	Co-elute PCB 138/164	
PCB-164	2.07e+07	1.25	y	41:39	1.09	1970	-	-	*	Co-elute PCB 138/163	
PCB-158	2.39e+06	1.28	y	41:52	1.13	220	-	-	*	Co-elute PCB 160	
PCB-160	2.39e+06	1.28	y	41:52	1.13	220	-	-	*	Co-elute PCB 158	
PCB-129	6.40e+05	1.19	y	42:07	0.73	91.1	-	-	*		
PCB-166	7.79e+04	1.11	y	42:35	1.05	7.71	-	-	*		
PCB-159	2.90e+05	1.17	y	42:53	1.11	27.0	-	-	*		
PCB-128	2.88e+06	1.25	y	43:06	0.95	313	-	-	*	Co-elute PCB 162	
PCB-162	2.88e+06	1.25	y	43:06	0.95	313	-	-	*	Co-elute PCB 128	
PCB-167	7.89e+05	1.31	y	43:30	1.05	77.6	-	-	*		
13C-PCB-167	1.94e+07	1.28	y	43:29	1.17	1990				99.4	
PCB-156	2.05e+06	1.27	y	44:43	1.06	205	-	-	*		
13C-PCB-156	1.88e+07	1.27	y	44:43	1.12	2020				101	
PCB-157	4.63e+05	1.29	y	44:59	1.13	41.4	-	-	*		
13C-PCB-157	1.98e+07	1.27	y	44:58	1.21	1960				98.2	
PCB-169	*	*	n	NotFnd	1.04	*	510	390	1.18		
13C-PCB-169	1.93e+07	1.28	y	46:50	1.13	2050				102	

PCB-188	2.86e+04	1.12	y	39:45	1.14	3.26	J	-	-	*	
13C-PCB-188	1.54e+07	1.05	y	39:45	0.95	1950					97.3
PCB-184	*	*	n	NotFnd	1.18	*		272	216	0.588	
PCB-179	2.56e+06	1.08	y	40:54	1.09	306		-	-	*	
PCB-176	8.40e+05	1.09	y	41:22	1.07	103		-	-	*	
PCB-186	*	*	n	NotFnd	1.08	*		272	216	0.643	
PCB-178	9.28e+05	1.11	y	42:23	0.78	155		-	-	*	
PCB-175	1.82e+05	0.93	y	42:43	0.81	29.4		-	-	*	
PCB-187	6.23e+06	1.05	y	42:53	0.93	878		-	-	*	Co-elute PCB 182
PCB-182	6.23e+06	1.05	y	42:53	0.93	878		-	-	*	Co-elute PCB 187
PCB-183	2.80e+06	1.09	y	43:11	0.90	407		-	-	*	
PCB-185	4.38e+05	1.09	y	43:49	0.85	67.7		-	-	*	
PCB-174	4.07e+06	1.08	y	44:08	0.88	603		-	-	*	
PCB-181	*	*	n	NotFnd	0.83	*		272	216	0.834	
PCB-177	2.48e+06	1.05	y	44:25	0.73	441		-	-	*	
PCB-171	1.15e+06	1.11	y	44:41	0.81	185		-	-	*	
PCB-173	7.66e+04	1.14	y	45:06	0.75	13.4		-	-	*	
PCB-172	6.85e+05	1.09	y	45:31	0.75	120		-	-	*	
PCB-192	*	*	n	NotFnd	1.02	*		272	216	0.677	
PCB-180	9.52e+06	1.05	y	45:50	1.06	1170		-	-	*	
PCB-193	7.64e+05	1.05	y	46:00	1.07	93.0		-	-	*	
PCB-191	2.57e+05	1.16	y	46:13	1.03	32.7		-	-	*	
PCB-170	3.65e+06	1.06	y	47:08	0.73	652		-	-	*	
PCB-190	1.12e+06	1.08	y	47:18	1.00	147		-	-	*	
PCB-189	2.01e+05	1.04	y	48:30	1.10	23.9		-	-	*	
13C-PCB-189	1.52e+07	1.08	y	48:28	0.88	2070					104
PCB-202	4.37e+05	0.89	y	44:51	0.97	85.7		-	-	*	
PCB-201	3.11e+05	0.93	y	45:19	0.92	64.4		-	-	*	
PCB-204	*	*	n	NotFnd	0.97	*		180	208	0.894	
PCB-197	1.00e+05	0.98	y	45:42	1.02	18.6		-	-	*	
PCB-200	2.85e+05	0.87	y	46:27	0.94	57.8		-	-	*	
PCB-198	6.86e+04	0.83	y	47:37	0.65	20.1		-	-	*	
PCB-199	1.77e+06	0.91	y	47:44	0.77	435		-	-	*	
PCB-203	2.10e+06	0.90	y	47:59	0.79	506		-	-	*	Co-elute PCB 196
PCB-196	2.10e+06	0.90	y	47:59	0.79	506		-	-	*	Co-elute PCB 203
13C-PCB-202	1.05e+07	0.89	y	44:49	0.69	1820					91.2
13C-PCB-178	1.15e+07	1.10	y	42:23	0.73	1900					94.8
13C-PCB-138	1.67e+07	1.28	y	41:37	-	8.31					
PCB-195	1.19e+06	0.88	y	49:04	0.75	158		-	-	*	
PCB-194	3.11e+06	0.89	y	49:53	0.82	379		-	-	*	
PCB-205	2.25e+05	0.79	y	50:07	1.11	20.3		-	-	*	
13C-PCB-205	2.00e+07	0.91	y	50:07	1.30	1900					95.0
PCB-208	4.07e+05	1.37	y	49:11	0.99	49.9		-	-	*	
13C-PCB-208	1.65e+07	0.80	y	49:11	1.11	1840					92.0
PCB-207	1.87e+05	1.29	y	49:29	1.00	25.6		-	-	*	
PCB-206	1.14e+06	1.34	y	51:20	1.02	173		-	-	*	
13C-PCB-206	1.29e+07	0.83	y	51:19	0.87	1820					91.2
PCB-209	8.64e+05	1.23	y	52:30	1.09	108		-	-	*	
13C-PCB-209	1.47e+07	1.21	y	52:30	1.03	1760					88.2
13C-PCB-194	1.62e+07	0.93	y	49:53	-	8.10					

Analyst: _____ Date: 8/3/18

File:01AUG18Z #1-783 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:8 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



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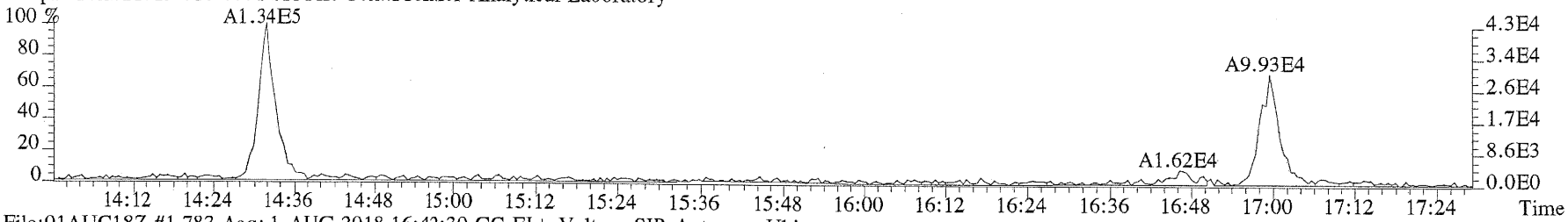

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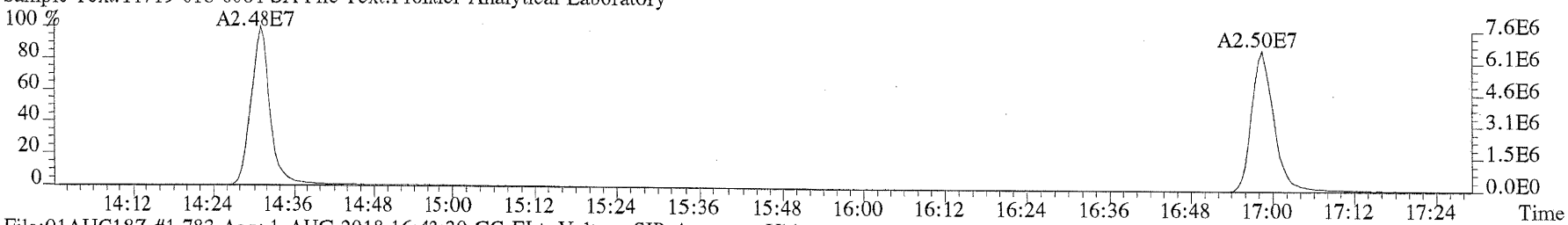

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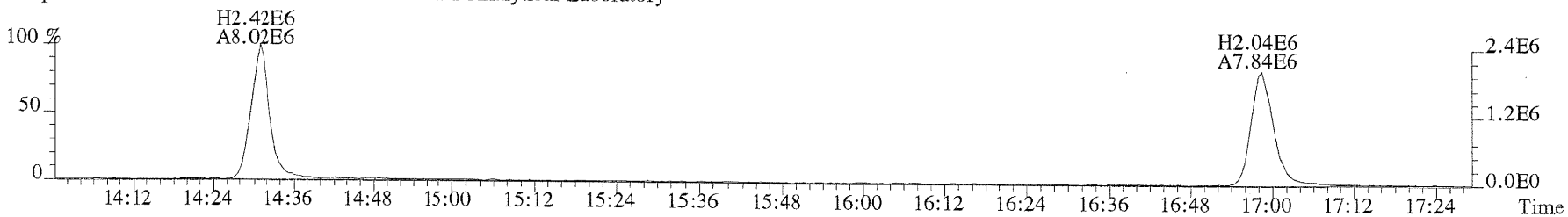

File:01AUG18Z #1-520 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
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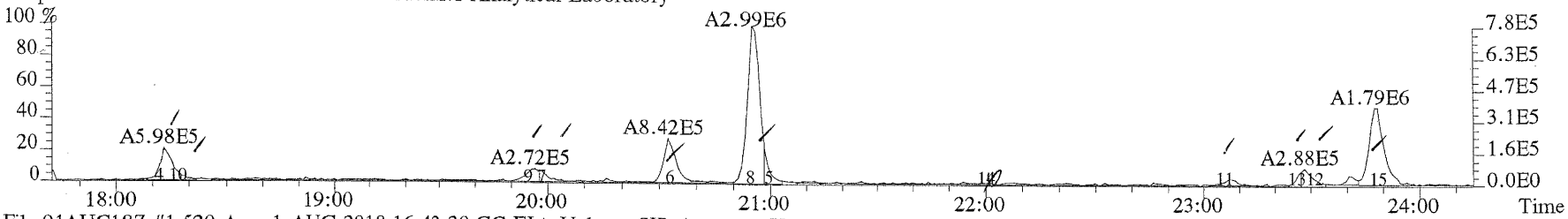

File:01AUG18Z #1-520 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
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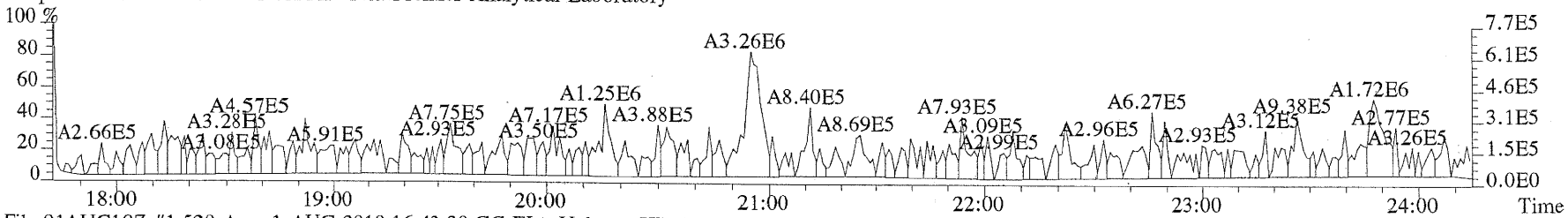
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-520 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
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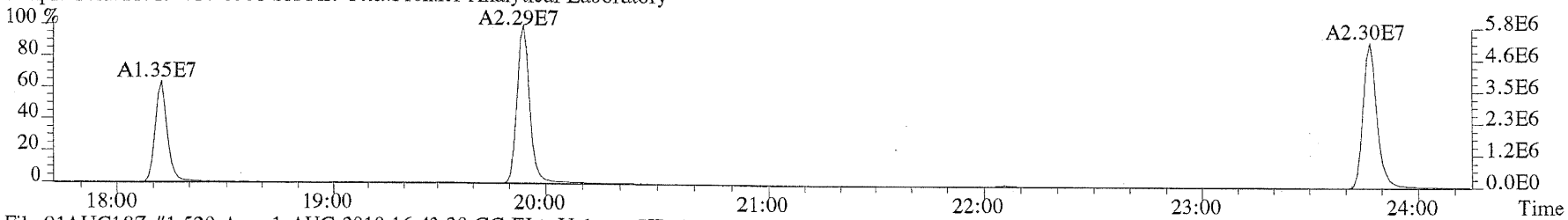
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-520 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
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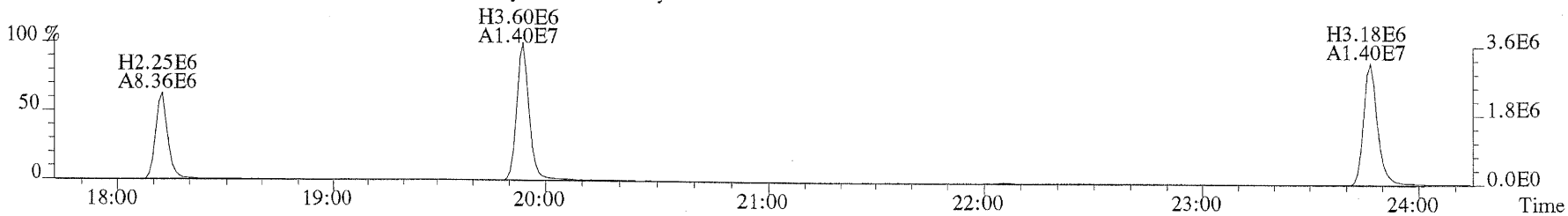
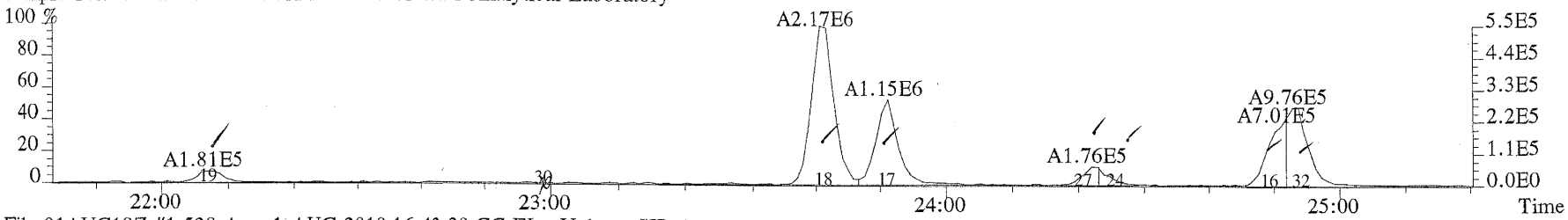
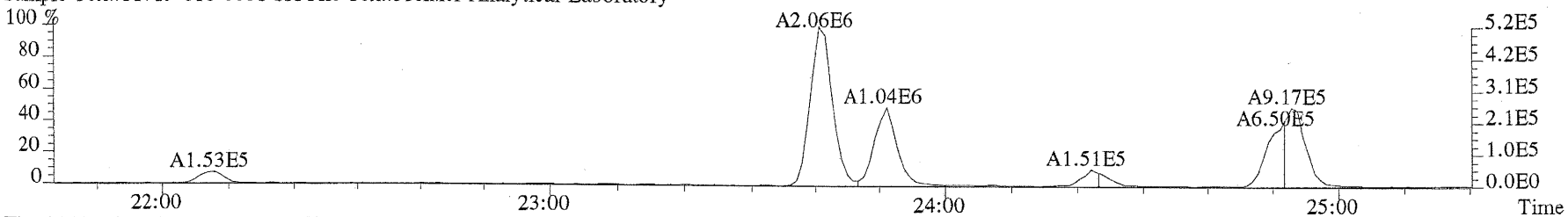
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



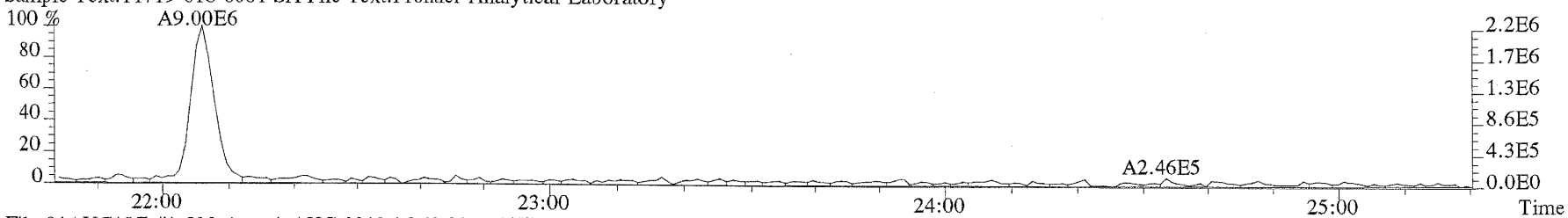
File:01AUG18Z #1-520 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



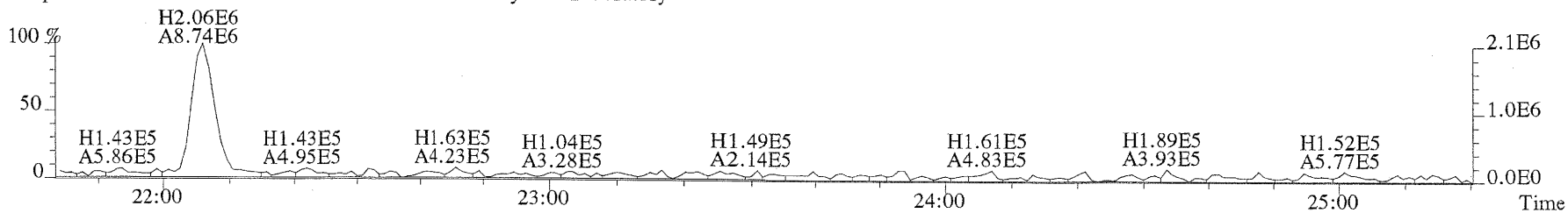
File:01AUG18Z #1-520 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



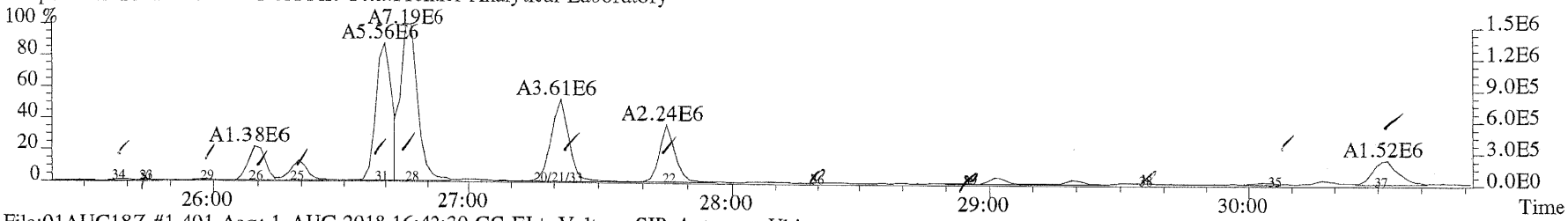
File:01AUG18Z #1-520 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



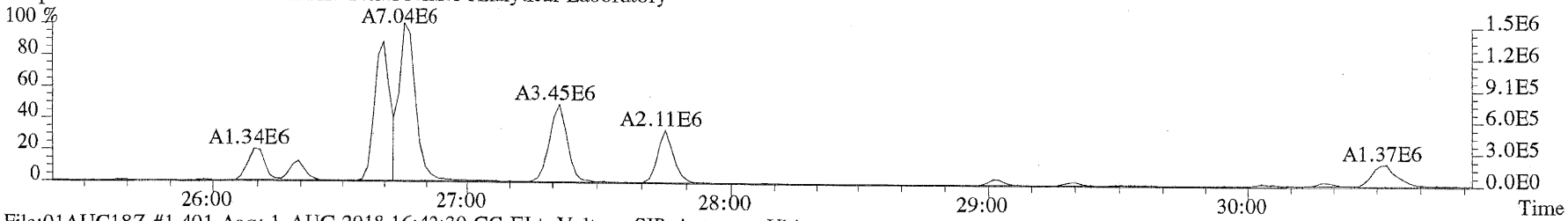
File:01AUG18Z #1-520 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



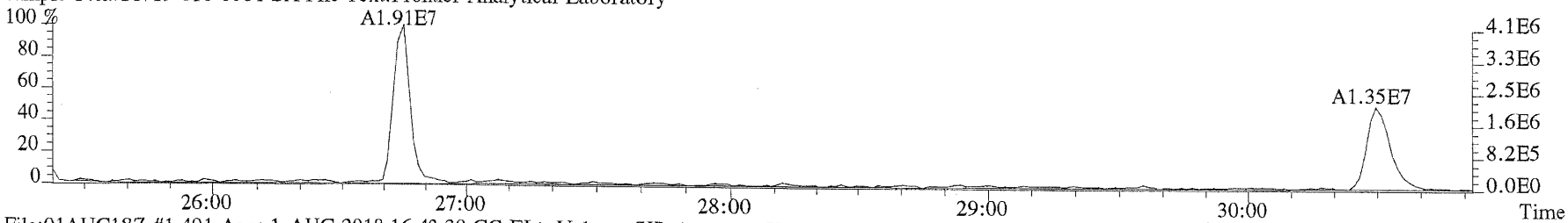
File:01AUG18Z #1-401 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



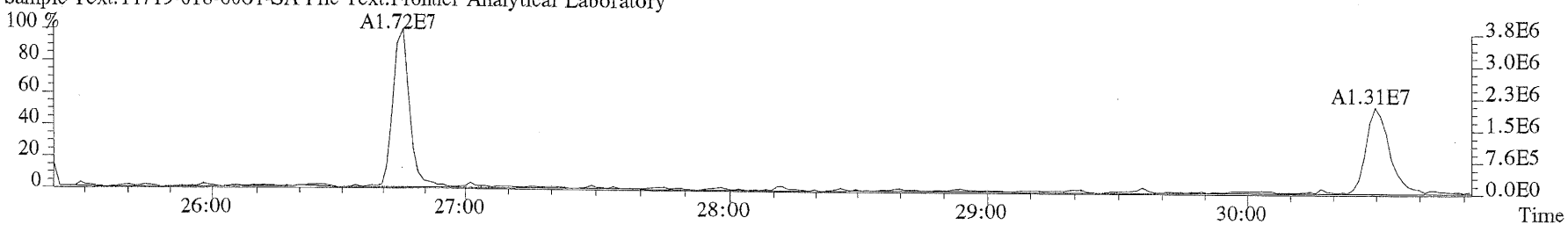
File:01AUG18Z #1-401 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



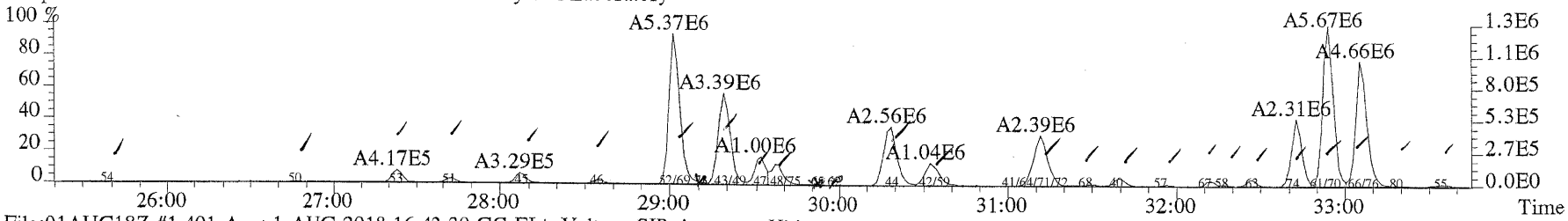
File:01AUG18Z #1-401 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



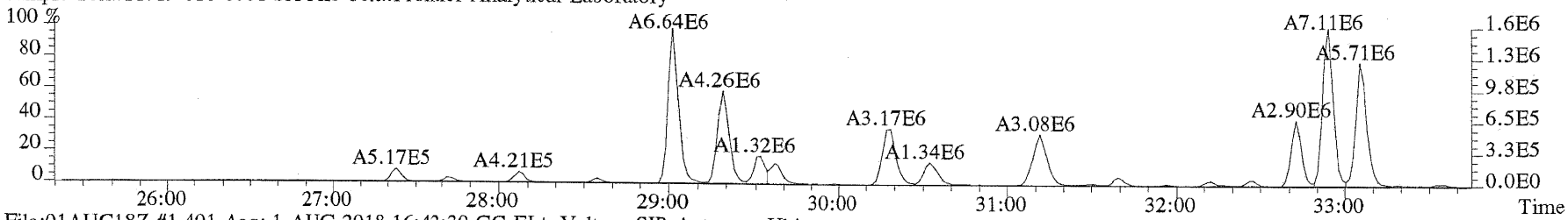
File:01AUG18Z #1-401 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



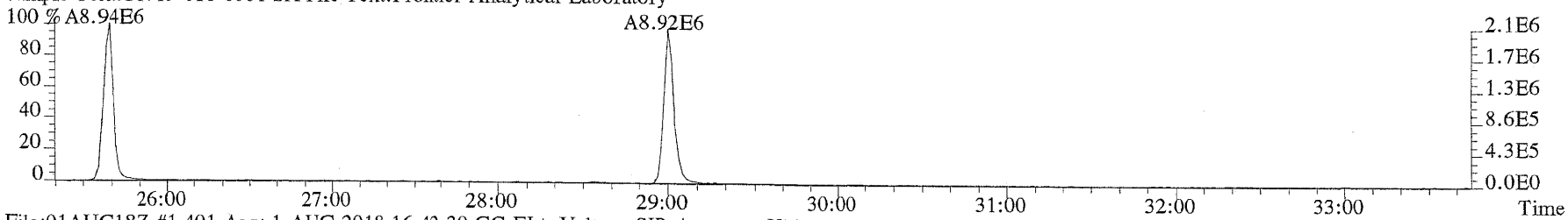
File:01AUG18Z #1-401 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



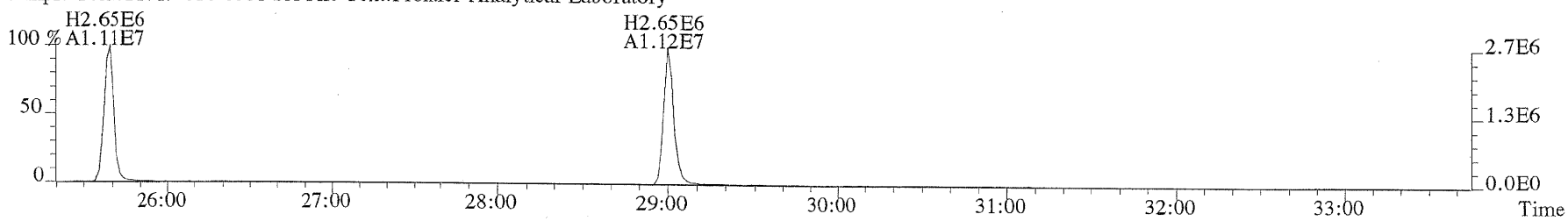
File:01AUG18Z #1-401 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



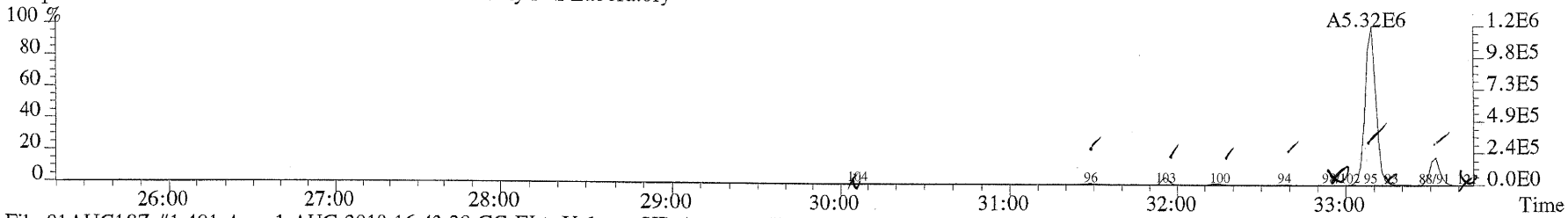
File:01AUG18Z #1-401 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



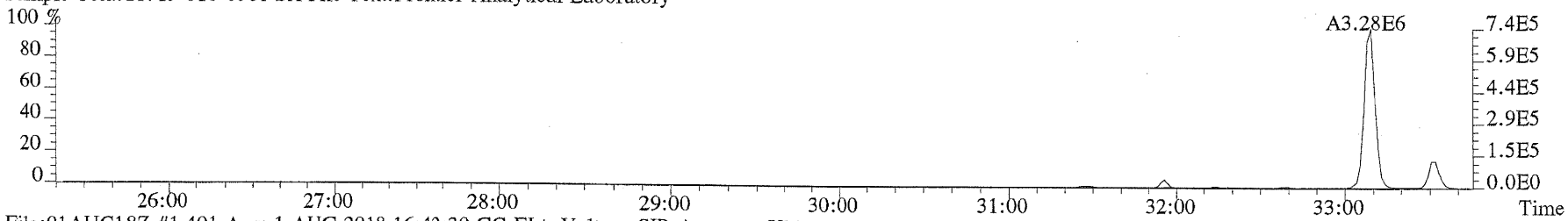
File:01AUG18Z #1-401 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



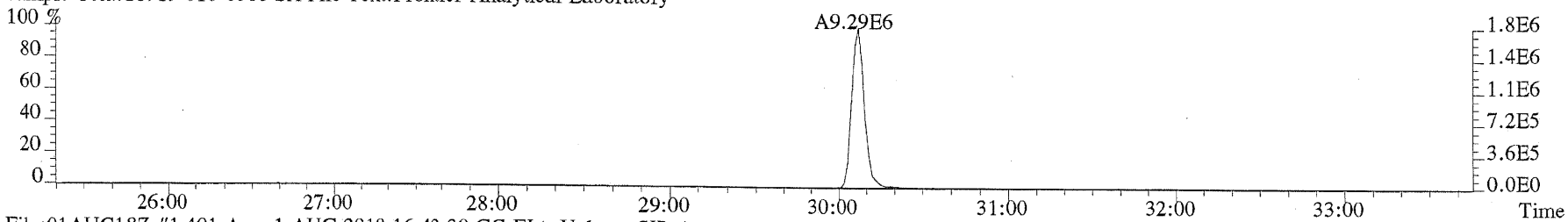
File:01AUG18Z #1-401 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



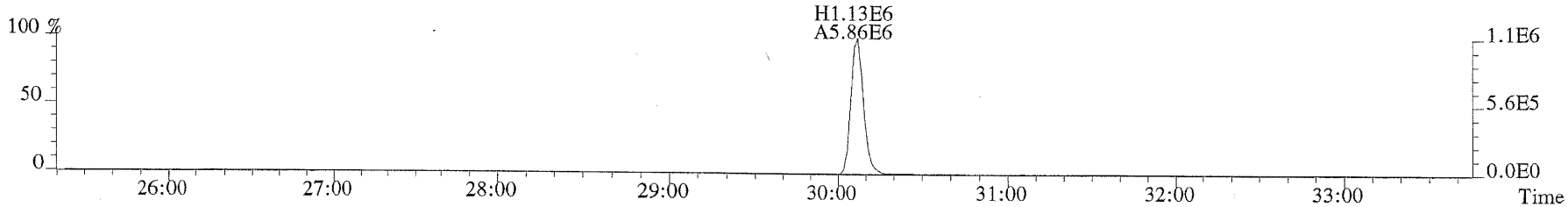
File:01AUG18Z #1-401 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



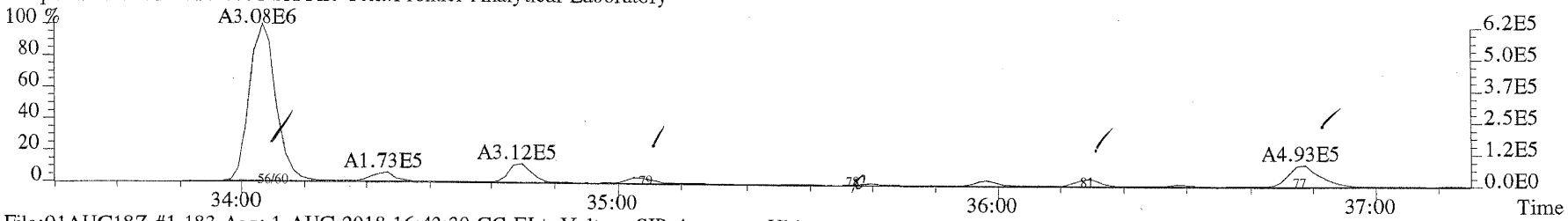
File:01AUG18Z #1-401 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



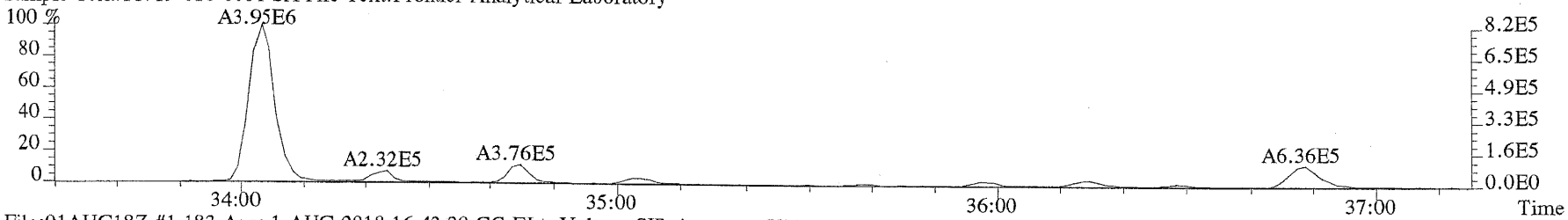
File:01AUG18Z #1-401 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



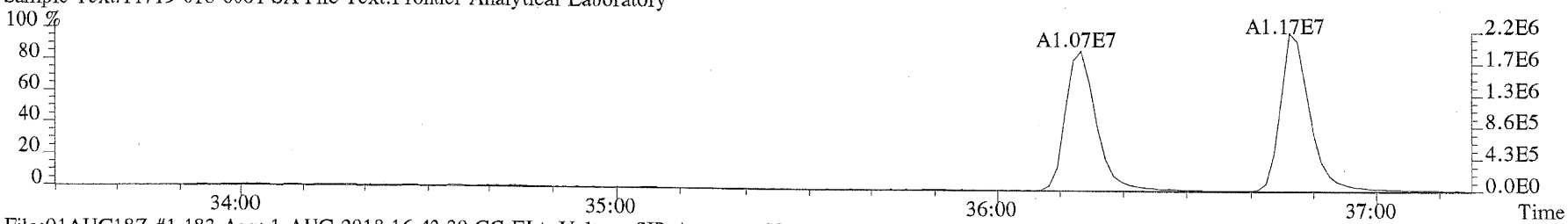
File:01AUG18Z #1-183 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



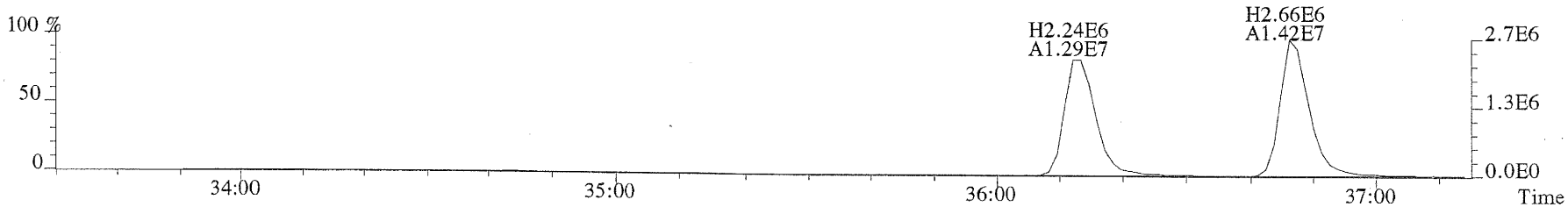
File:01AUG18Z #1-183 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



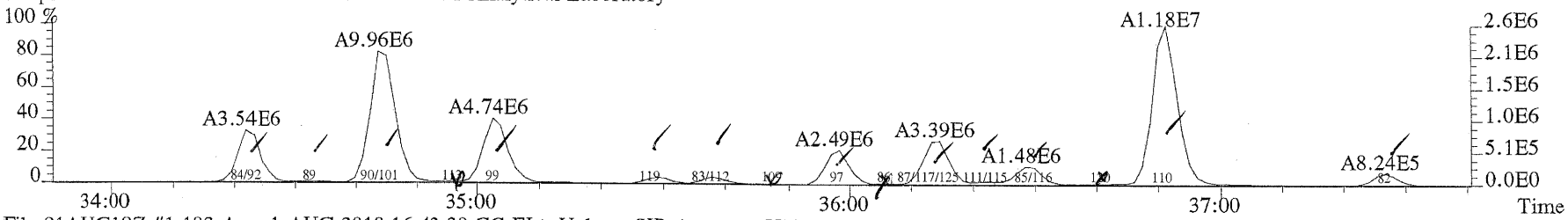
File:01AUG18Z #1-183 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



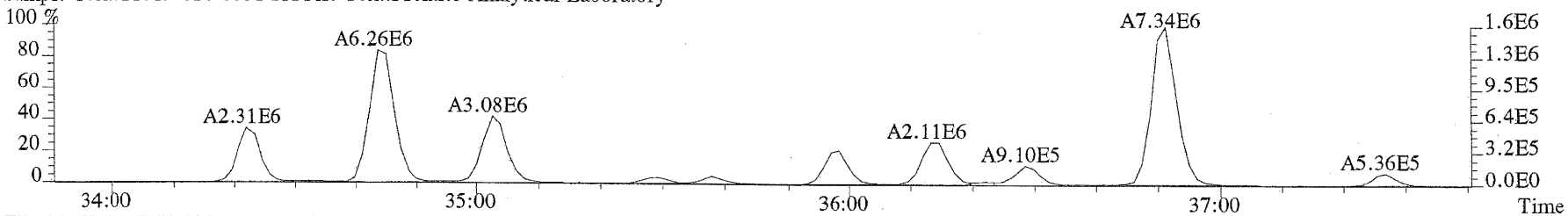
File:01AUG18Z #1-183 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



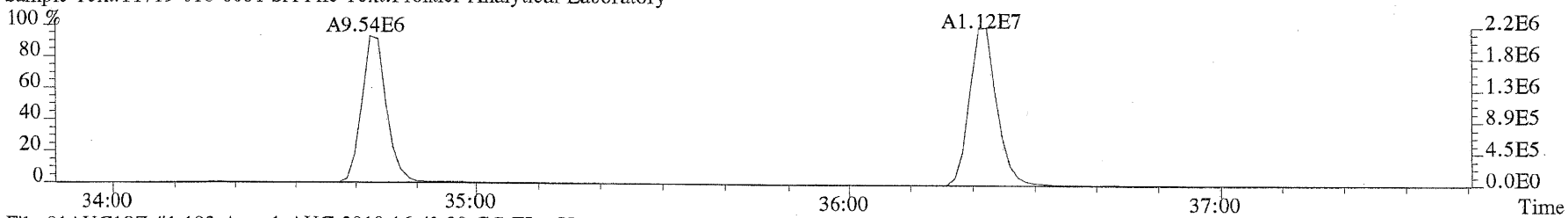
File:01AUG18Z #1-183 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



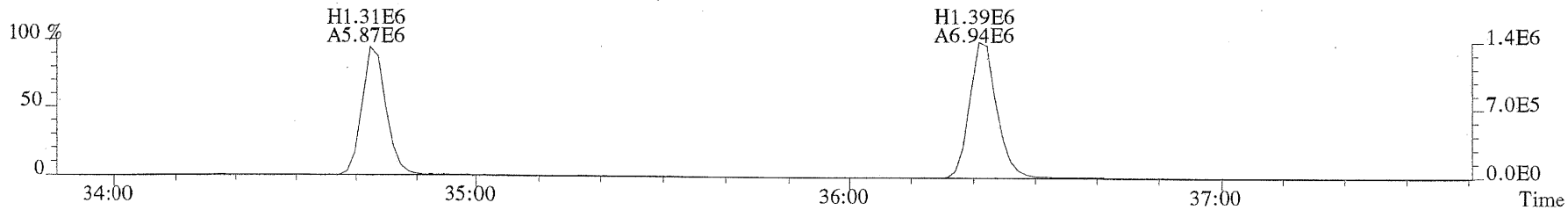
File:01AUG18Z #1-183 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



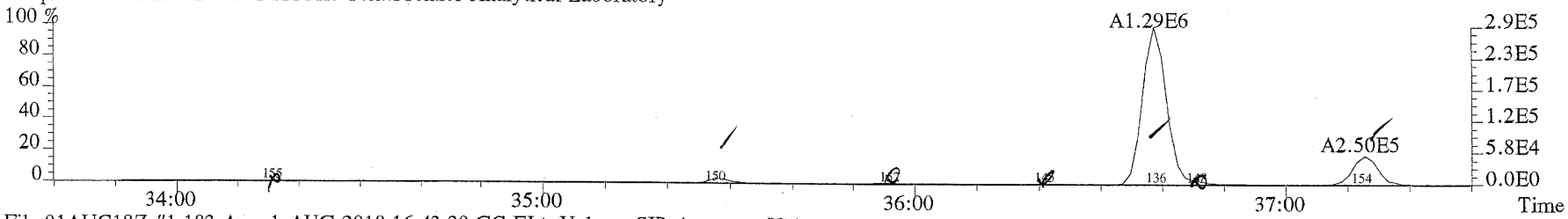
File:01AUG18Z #1-183 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



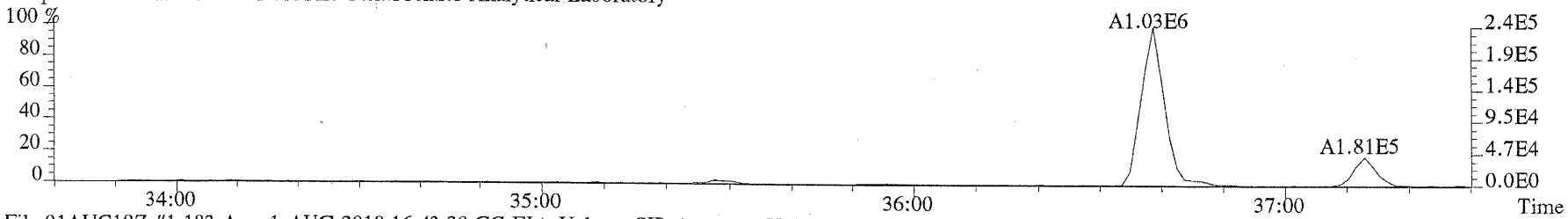
File:01AUG18Z #1-183 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



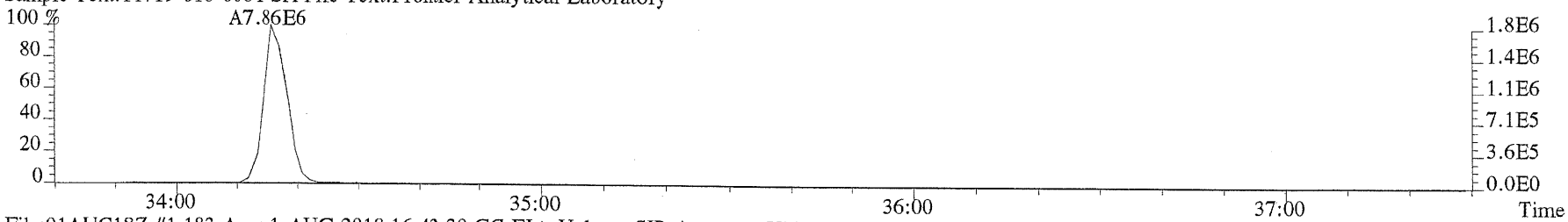
File:01AUG18Z #1-183 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



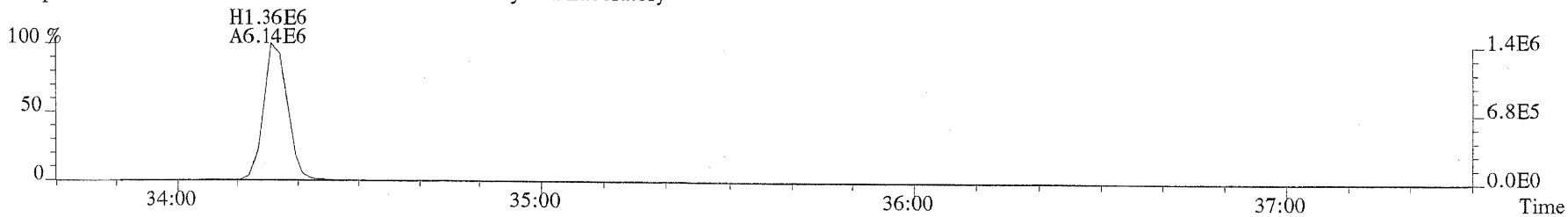
File:01AUG18Z #1-183 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



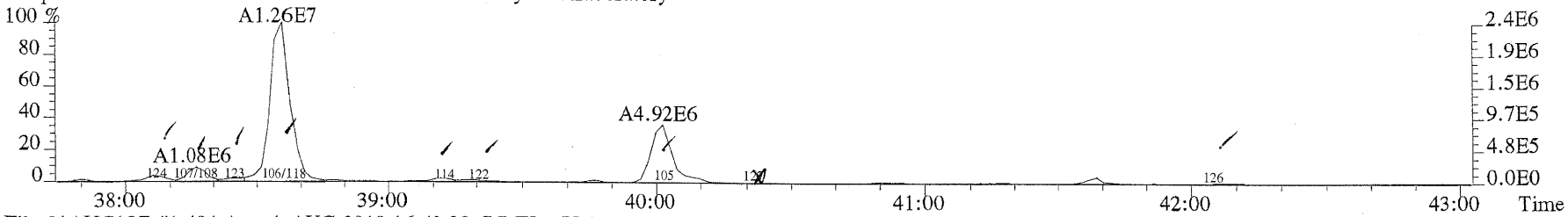
File:01AUG18Z #1-183 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



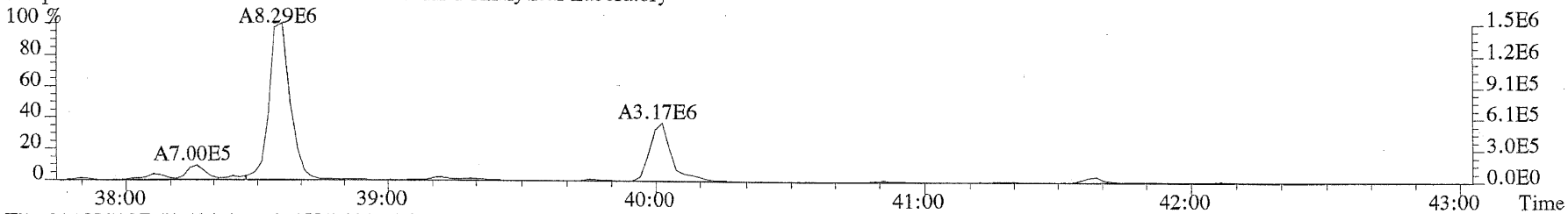
File:01AUG18Z #1-183 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



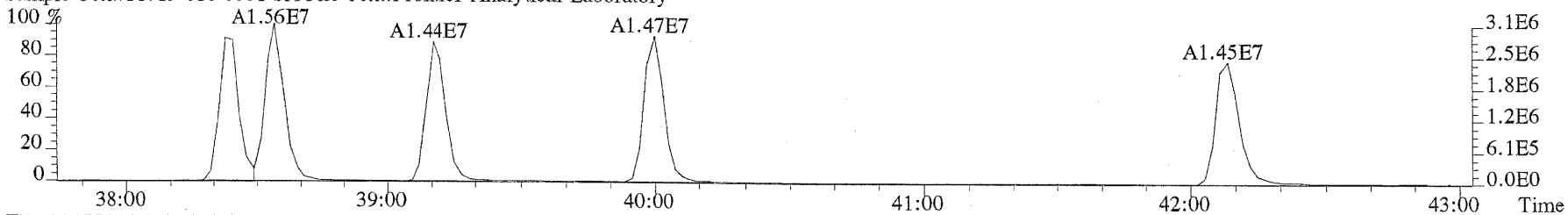
File:01AUG18Z #1-404 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



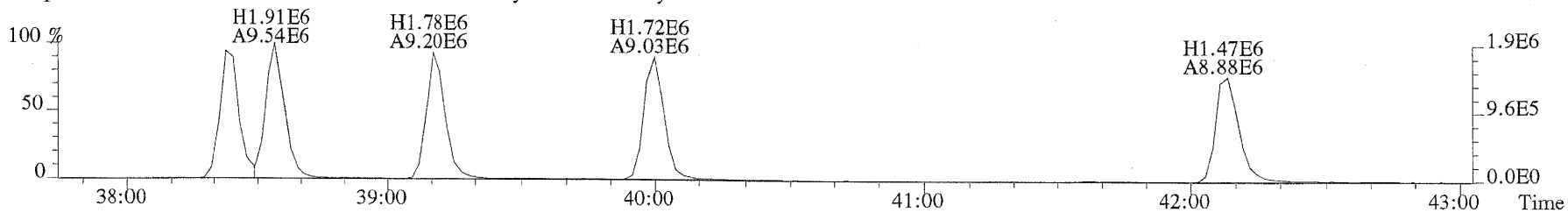
File:01AUG18Z #1-404 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



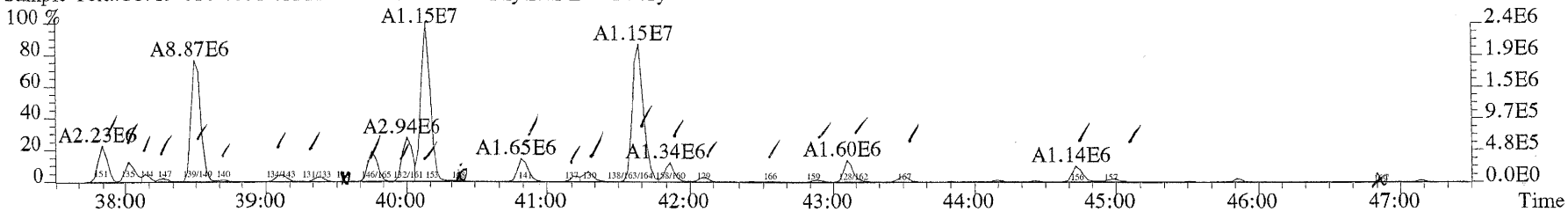
File:01AUG18Z #1-404 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



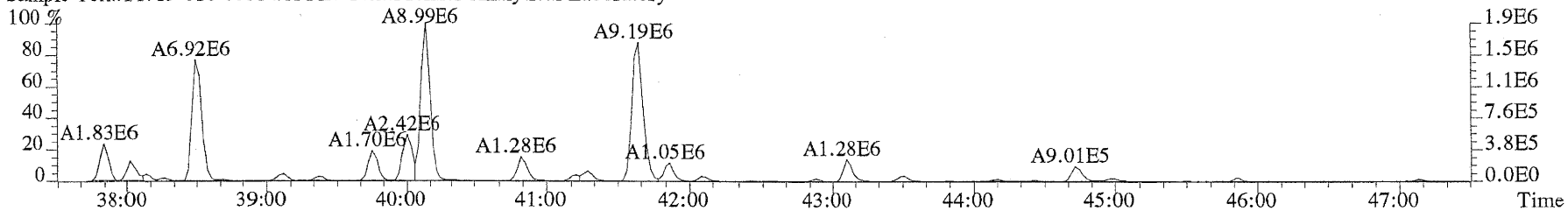
File:01AUG18Z #1-404 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-404 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
359.8415 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:11719-018-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-404 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
361.8385 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:11719-018-0001-SA File Text:Frontier Analytical Laboratory



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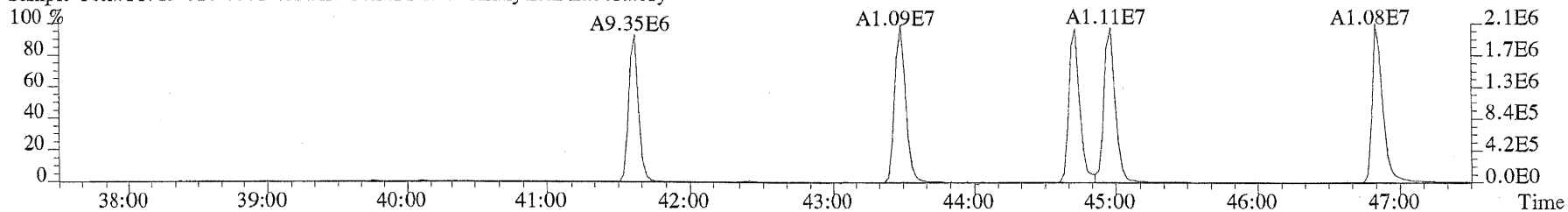
371.8817 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



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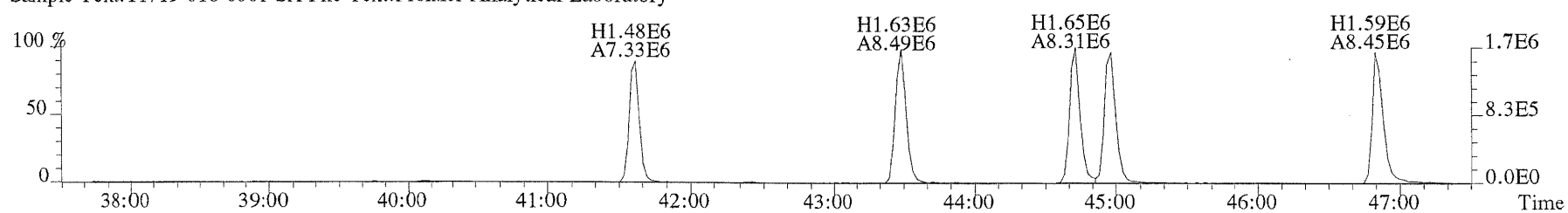
373.8788 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



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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
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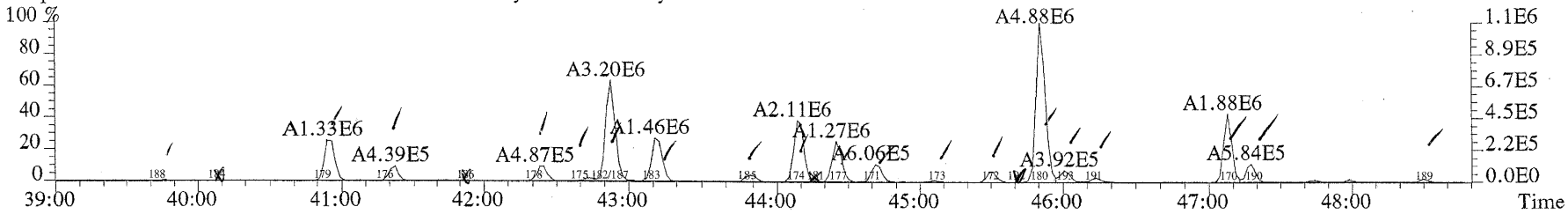

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395.7995 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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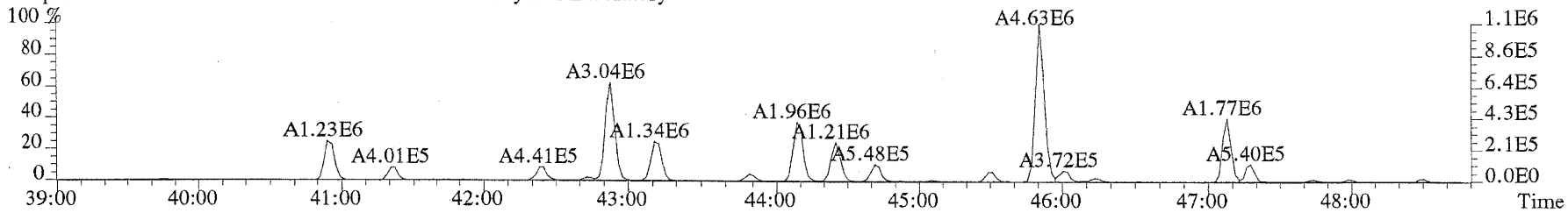

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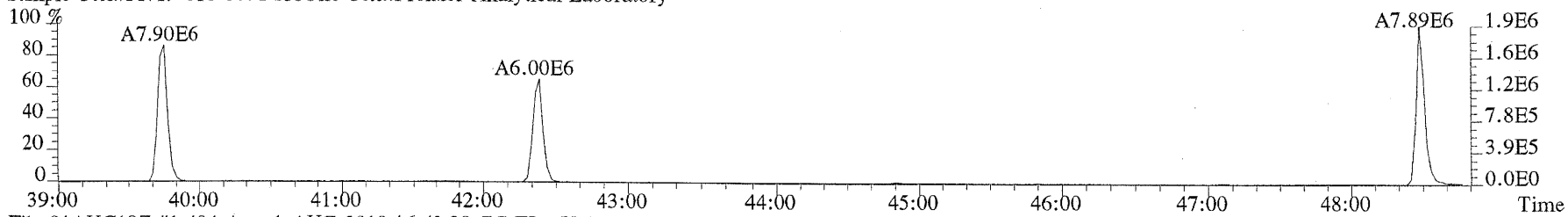
405.8428 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



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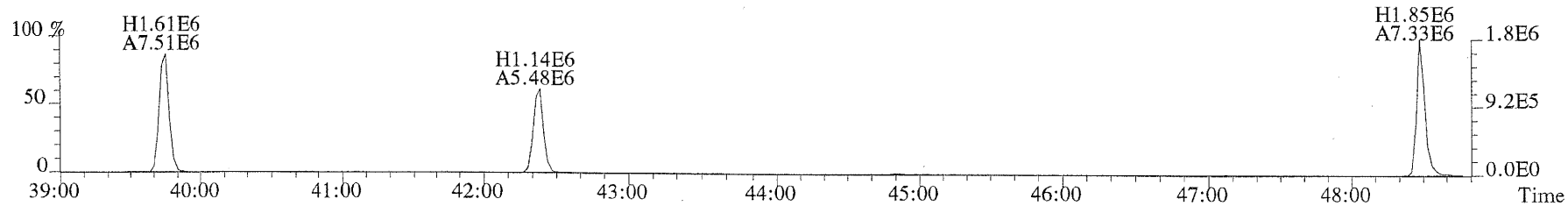
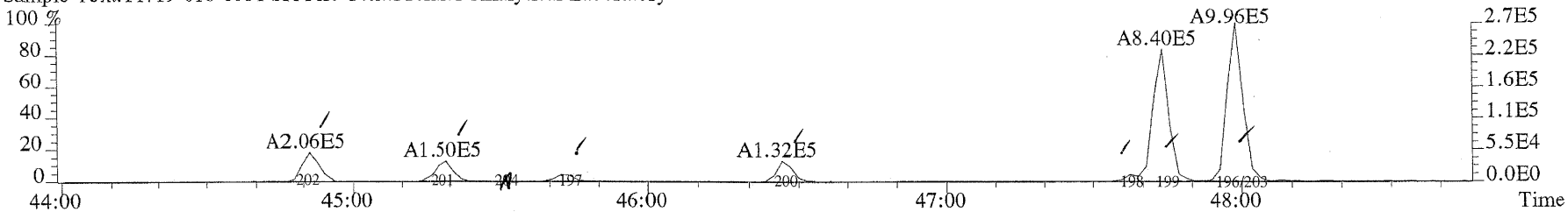
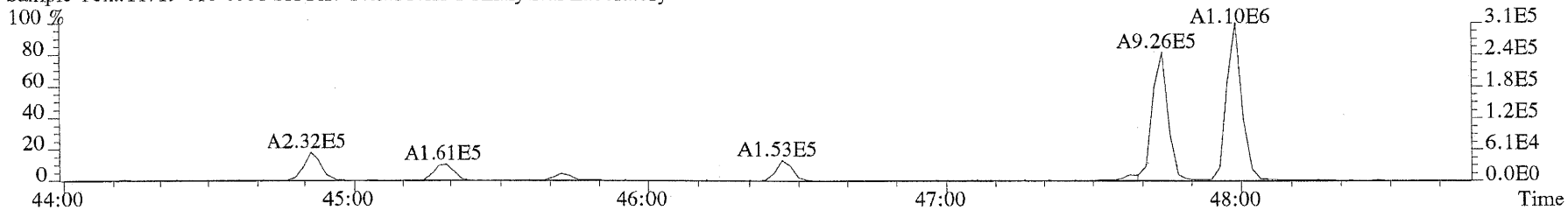
407.8398 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



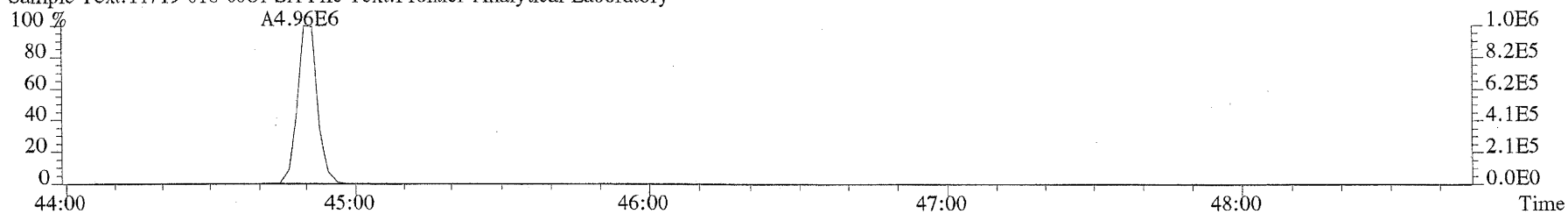
File:01AUG18Z #1-404 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



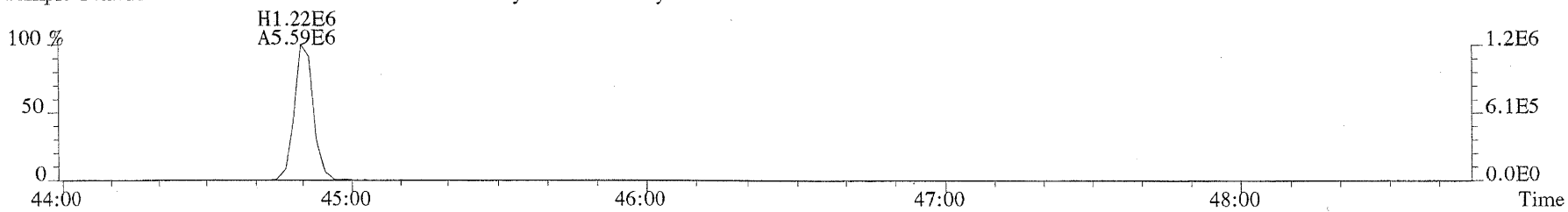
File:01AUG18Z #1-404 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



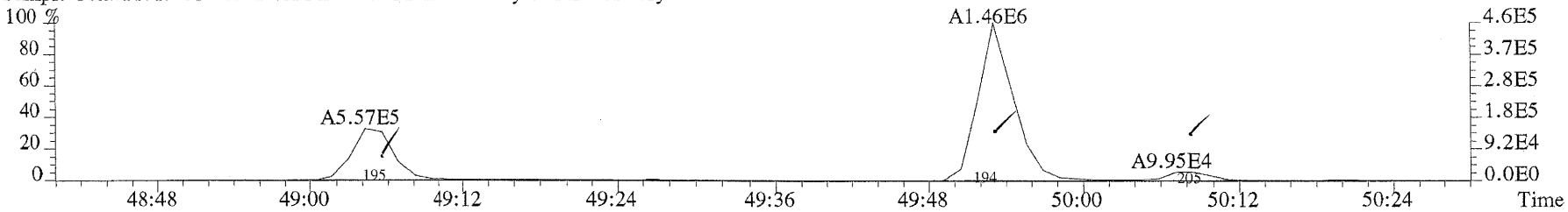
File:01AUG18Z #1-404 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-404 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
441.8008 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:11719-018-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-314 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
427.7635 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:11719-018-0001-SA File Text:Frontier Analytical Laboratory



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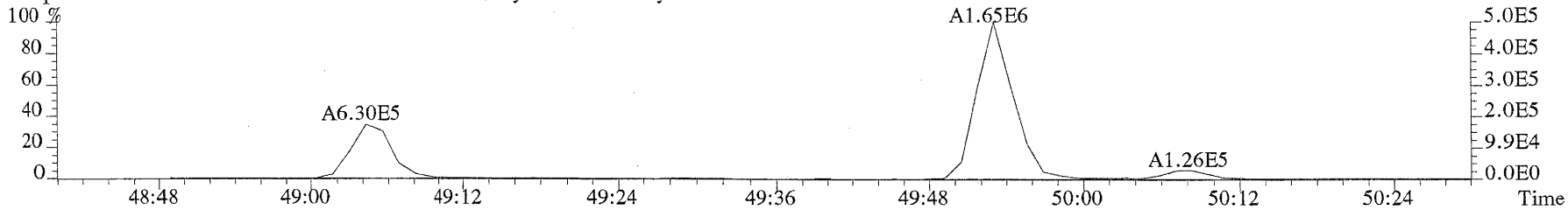
429.7606 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-314 Acq: 1-AUG-2018 16:42:30 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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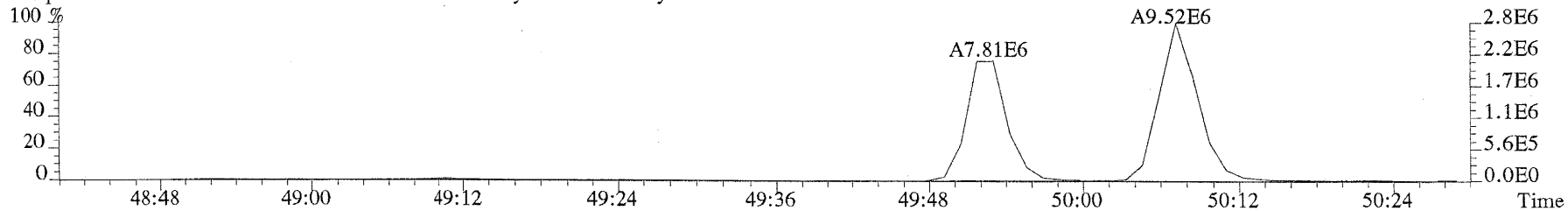

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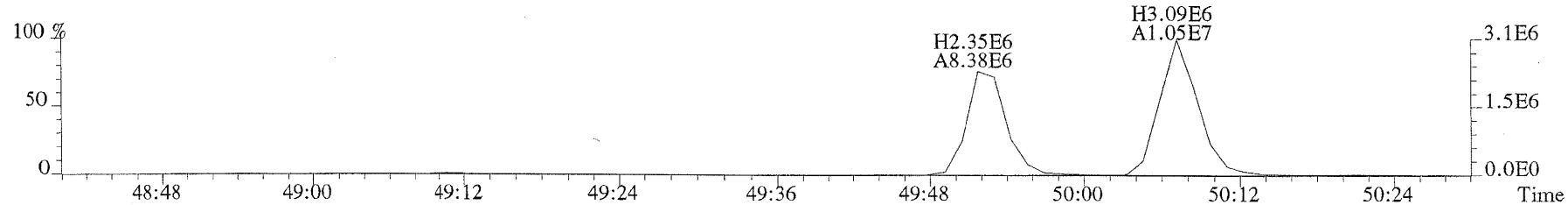

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463.7216 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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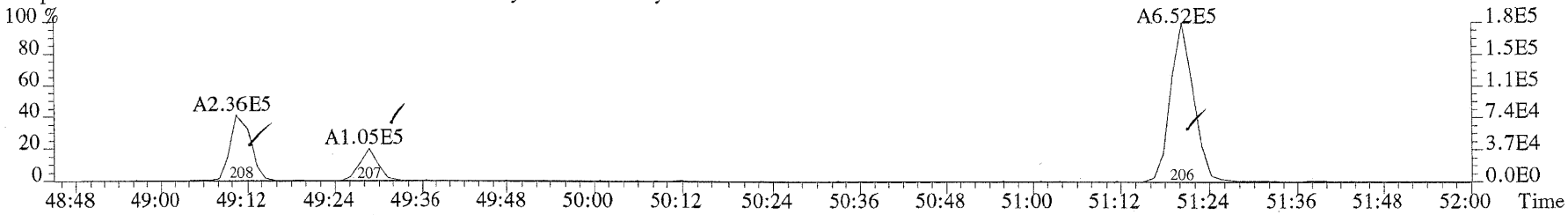

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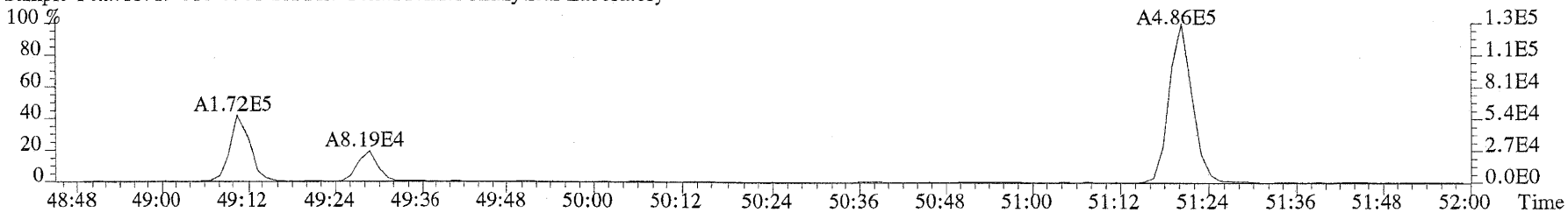

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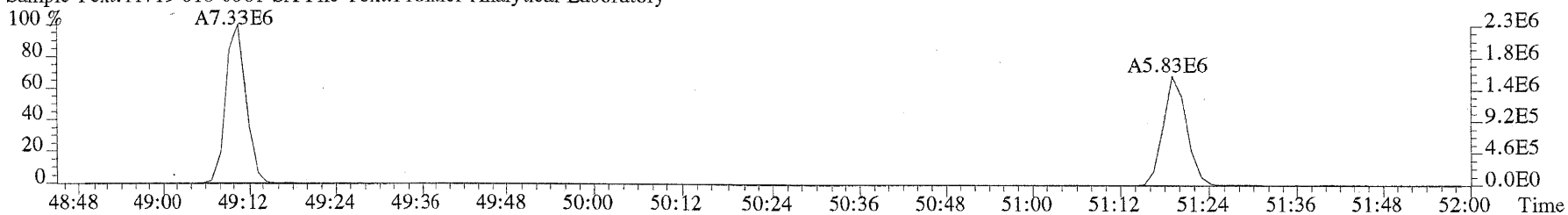
473.7648 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



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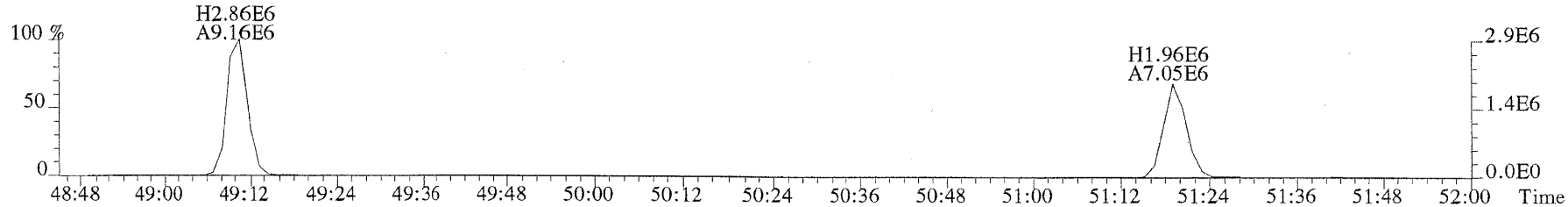
475.7619 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



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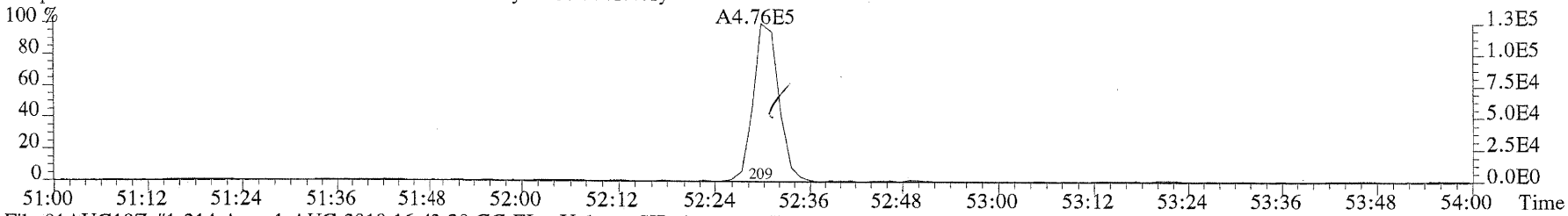
497.6826 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



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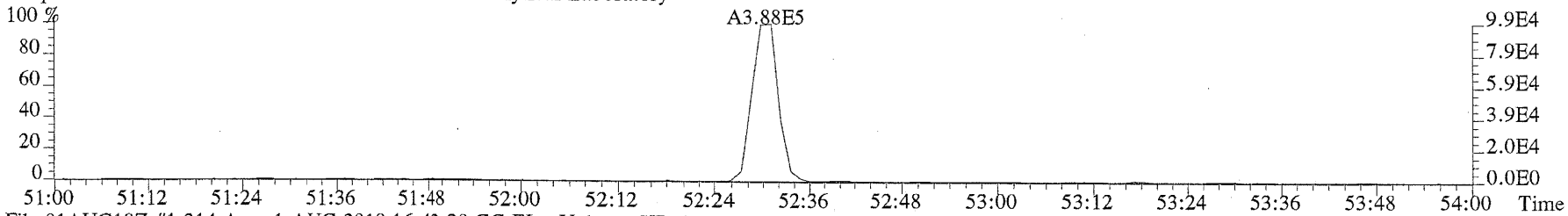
499.6797 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



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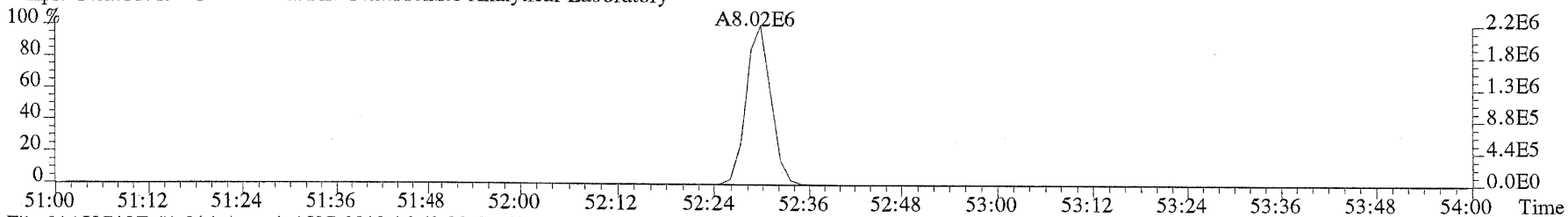
509.7229 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



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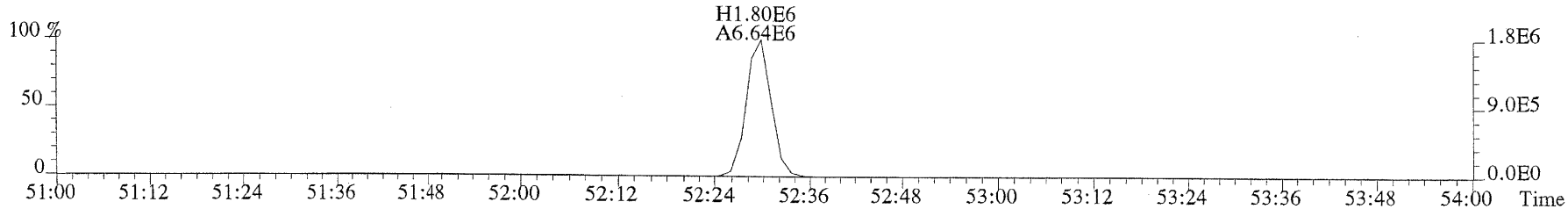
Sample Text:11719-018-0001-SA File Text:Frontier Analytical Laboratory



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: _____ 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: [signature] 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

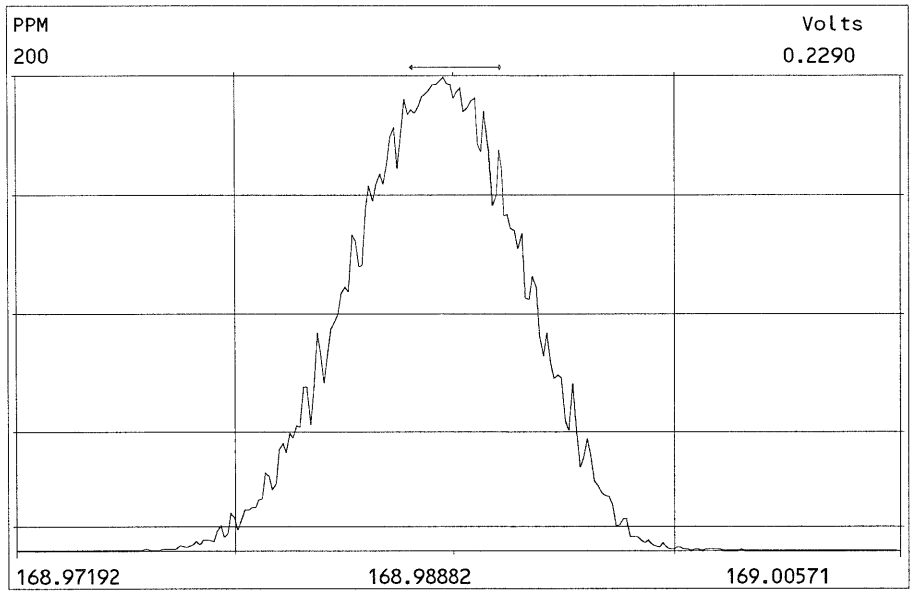
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
04APR18Z	1	ST040418Z0	1668 CS0 R170821A	4-APR-18 16:40:39	NA	NA	BS
04APR18Z	2	ST040418Z1	1668 CS1 R170213A	4-APR-18 17:38:59	NA	NA	BS
04APR18Z	3	ST040418Z2	1668 CS2 R170213B	4-APR-18 18:37:21	NA	NA	BS
04APR18Z	4	ST040418Z3	1668 CS3 R170805A	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

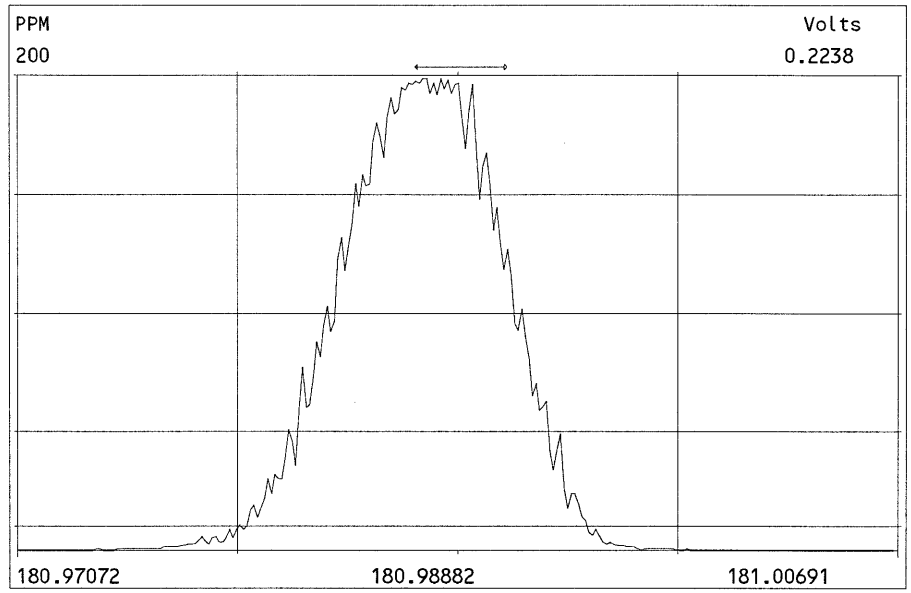
4/5/18

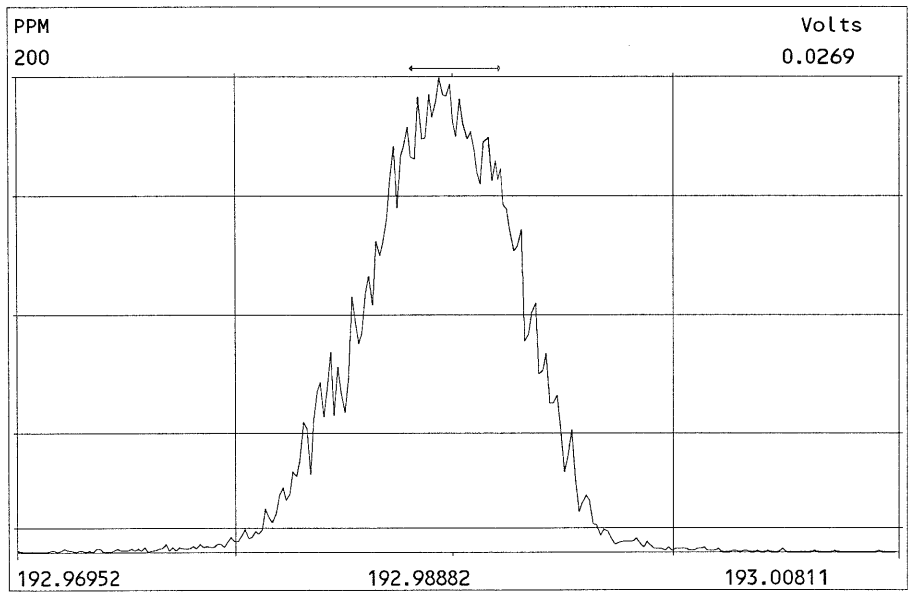
Data Backed Up:_____

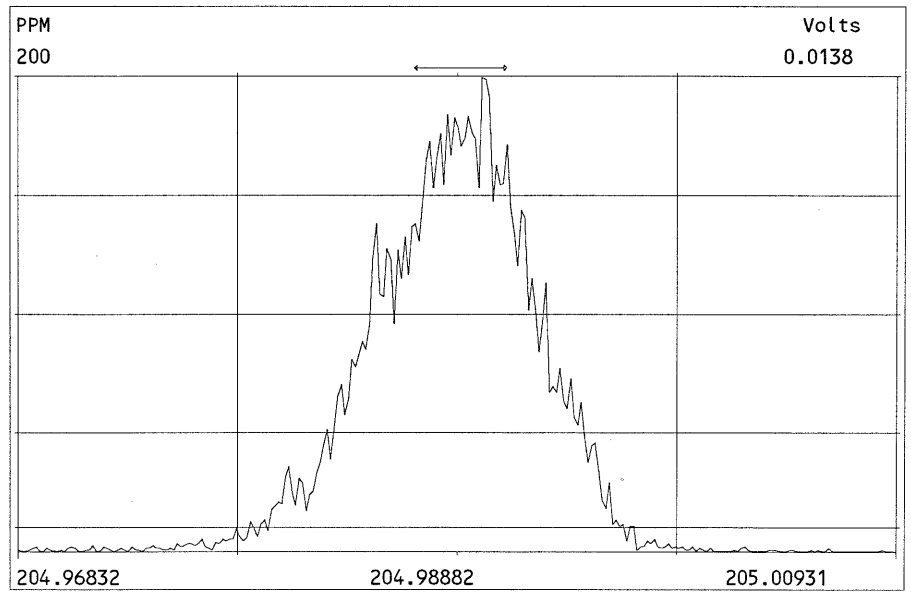
Date:_____

Peak Locate Examination: 4-APR-2018:16:38 File:04APR18Z
Experiment:1668PCB Function:1 Reference:PFK

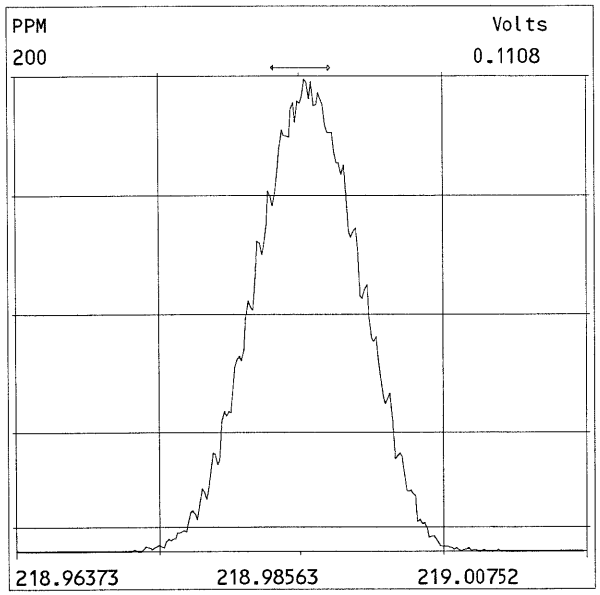


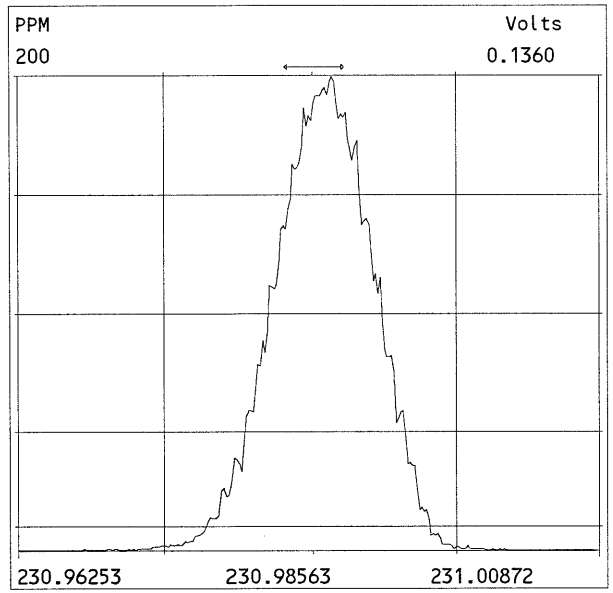


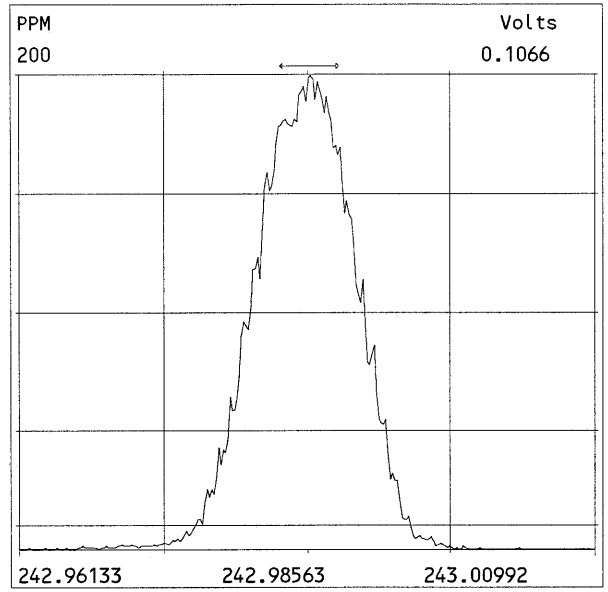


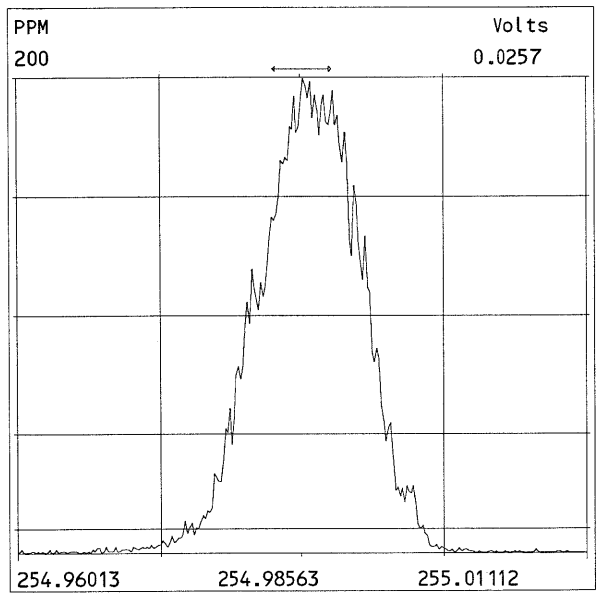


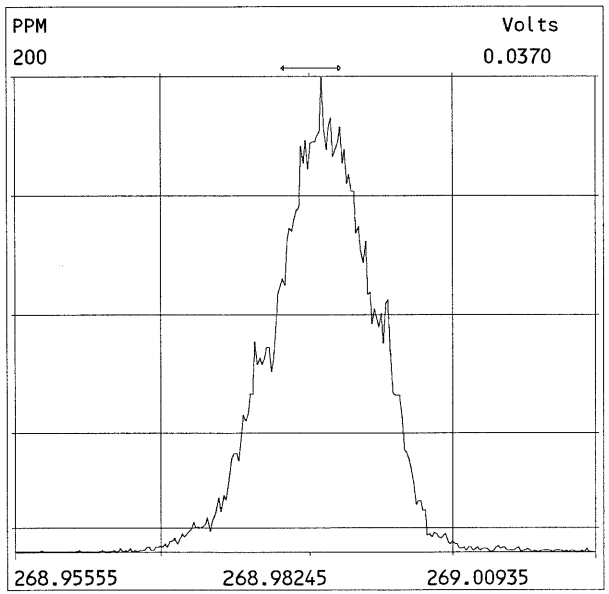
Peak Locate Examination: 4-APR-2018:16:38 File:04APR18Z
Experiment:1668PCB Function:2 Reference:PFK

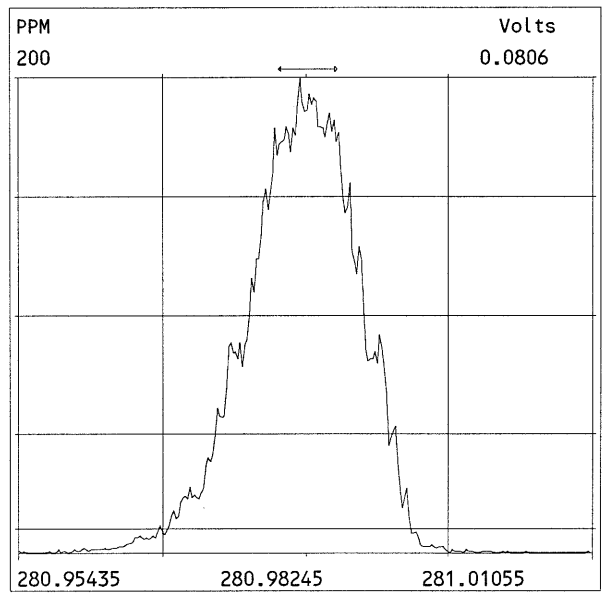




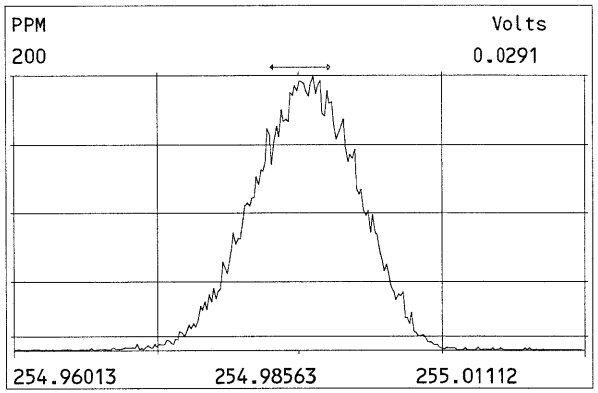


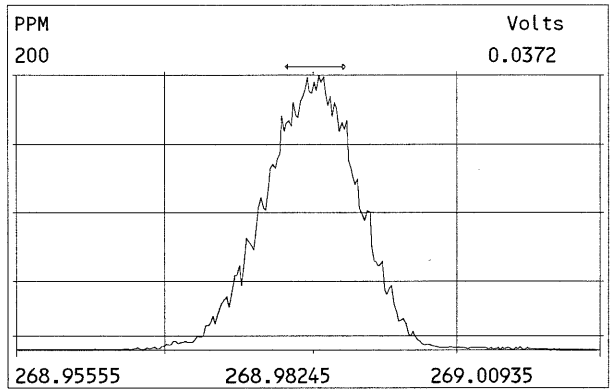


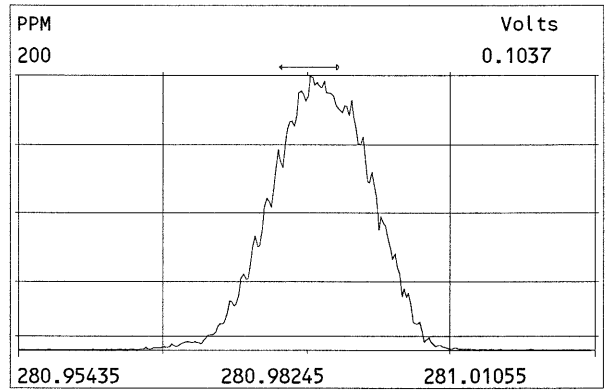


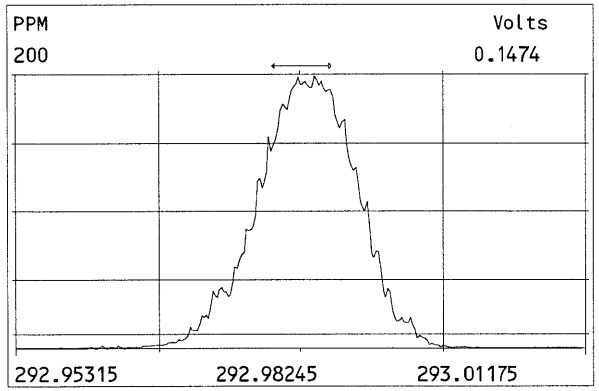


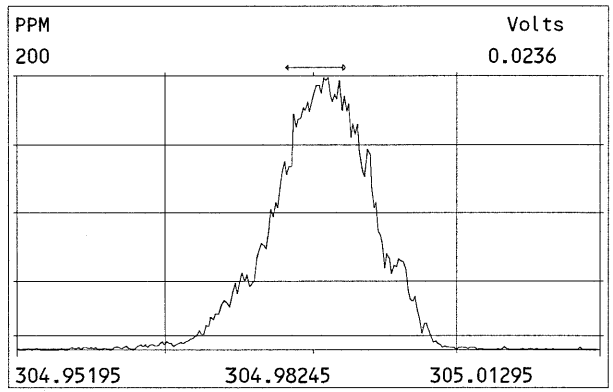
Peak Locate Examination: 4-APR-2018:16:38 File:04APR18Z
Experiment:1668PCB Function:3 Reference:PFK

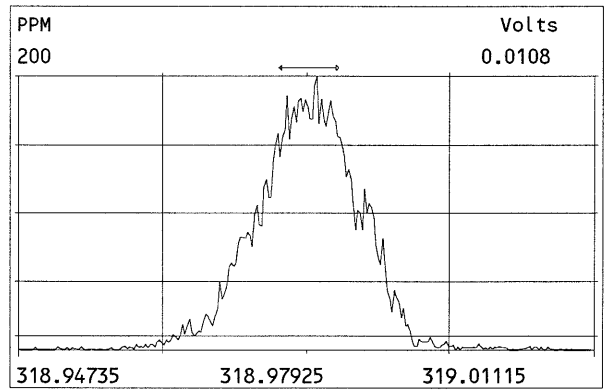


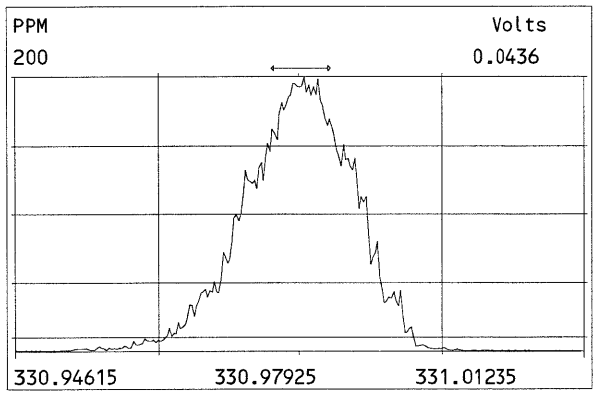


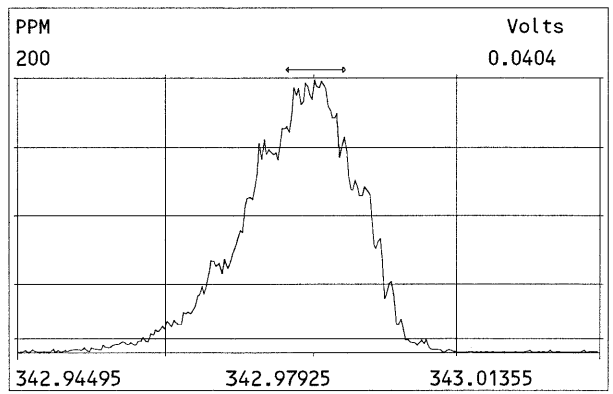




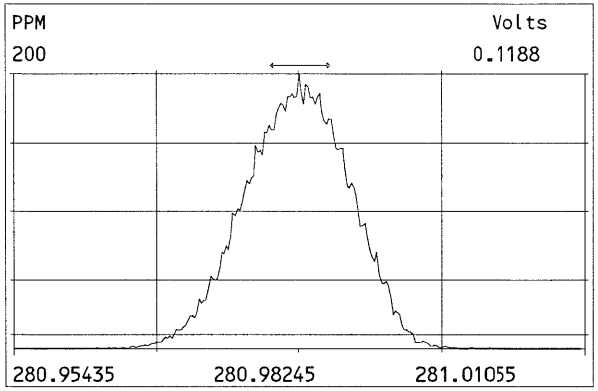


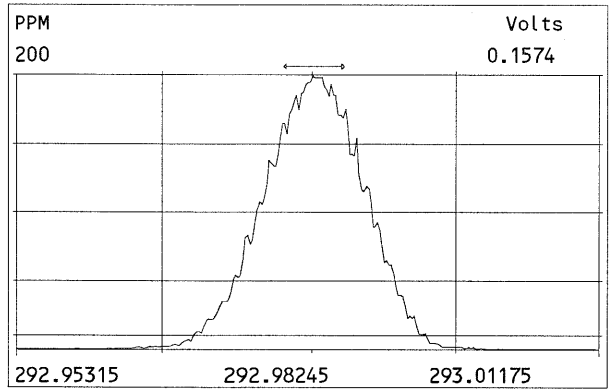


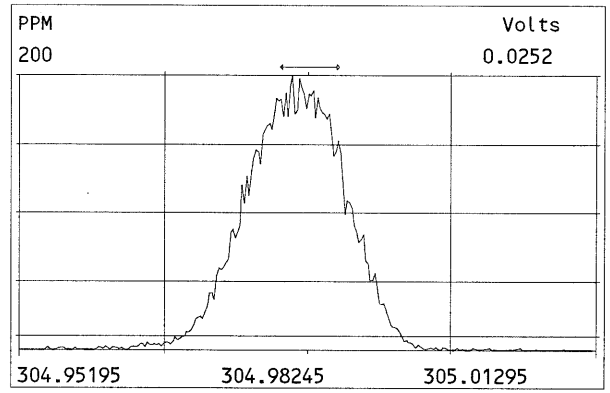


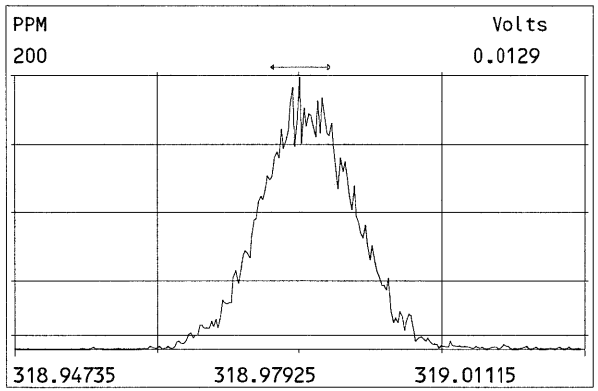


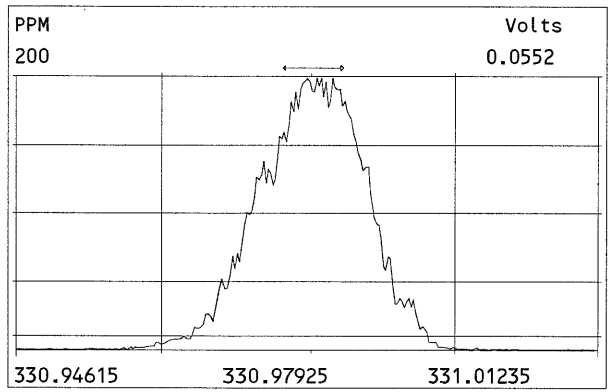
Peak Locate Examination: 4-APR-2018:16:39 File:04APR18Z
Experiment:1668PCB Function:4 Reference:PFK

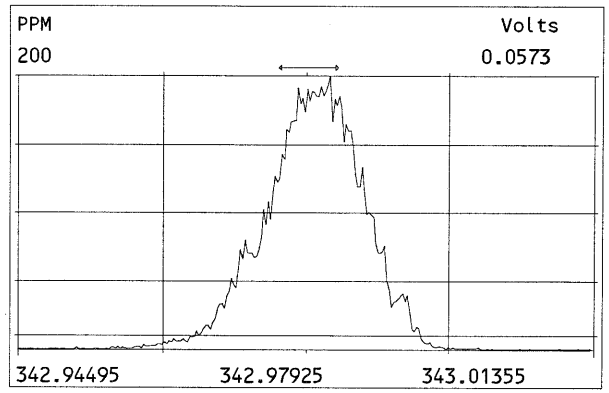


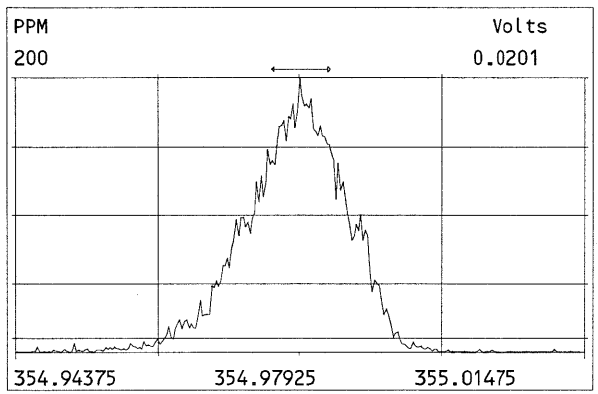


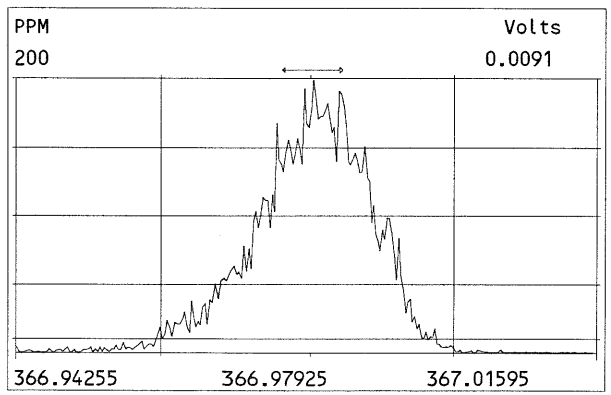


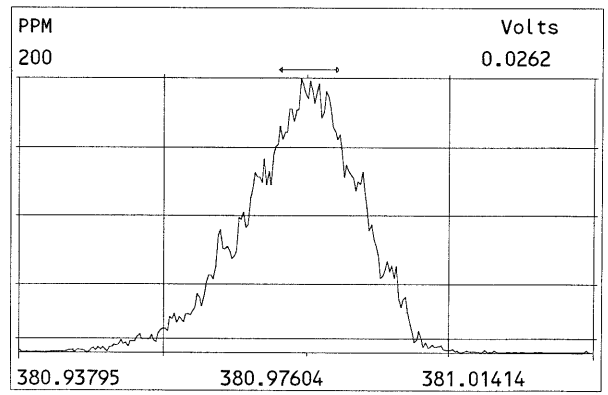




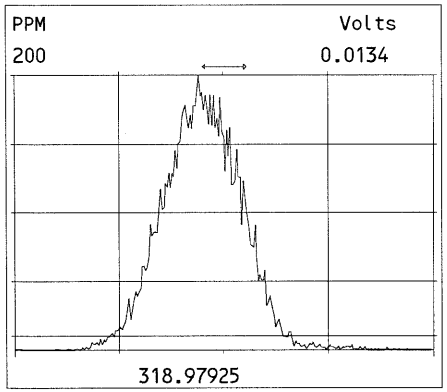


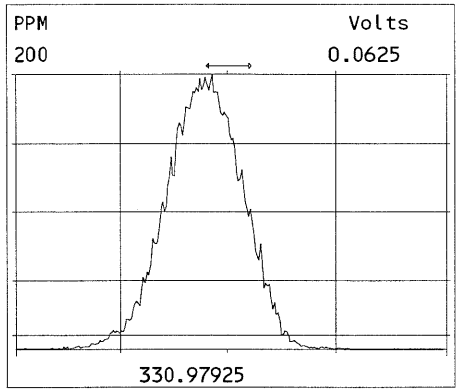


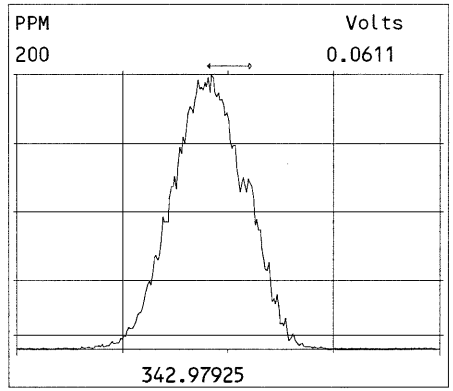


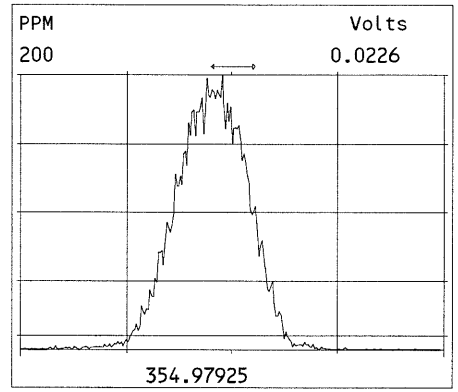


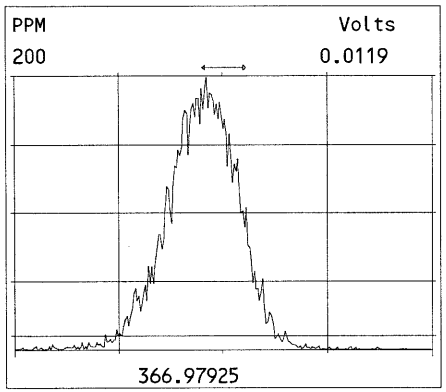
Peak Locate Examination: 4-APR-2018:16:39 File:04APR18Z
Experiment:1668PCB Function:5 Reference:PFK

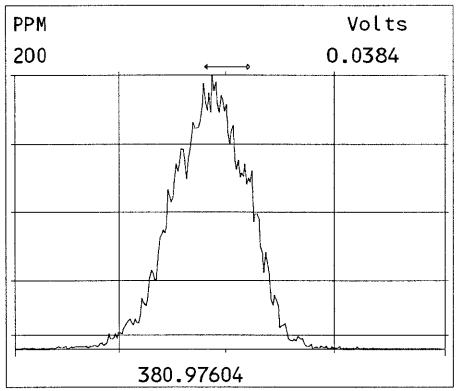


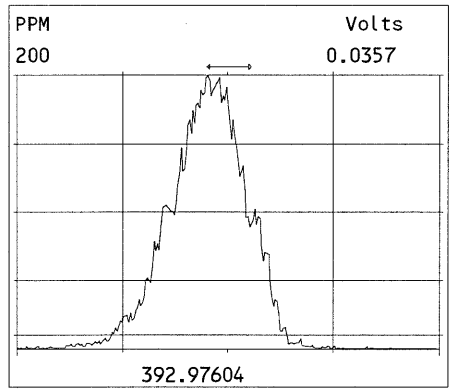


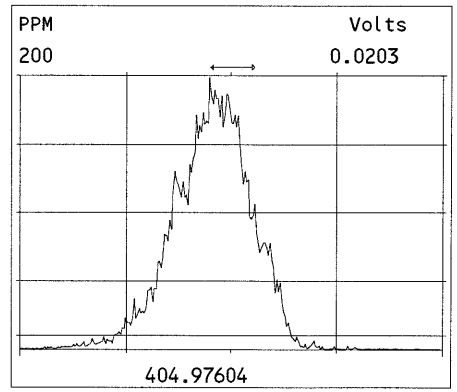


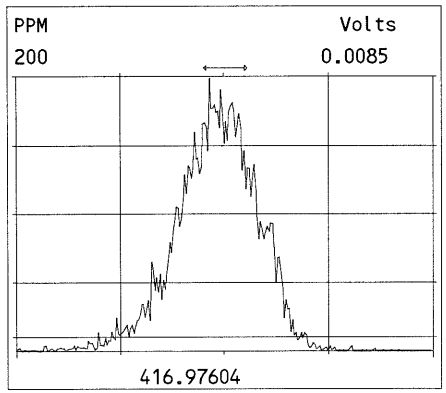


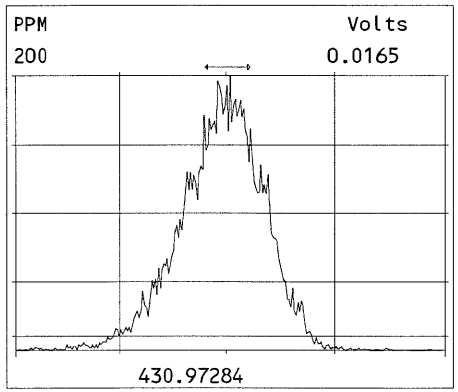


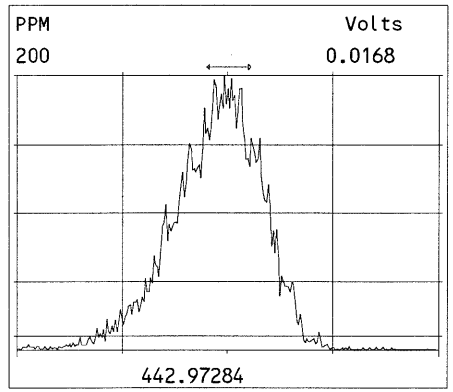




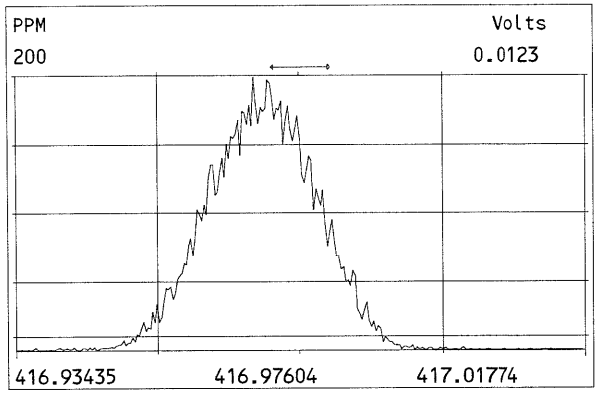


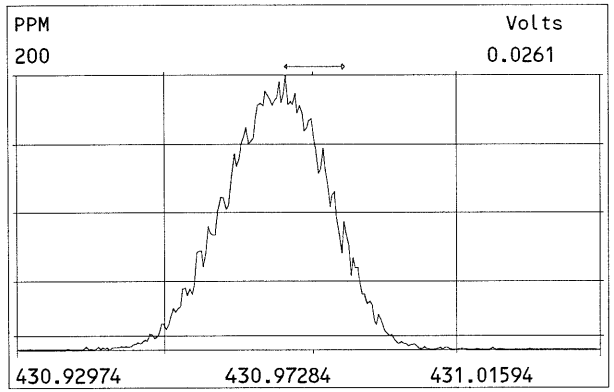


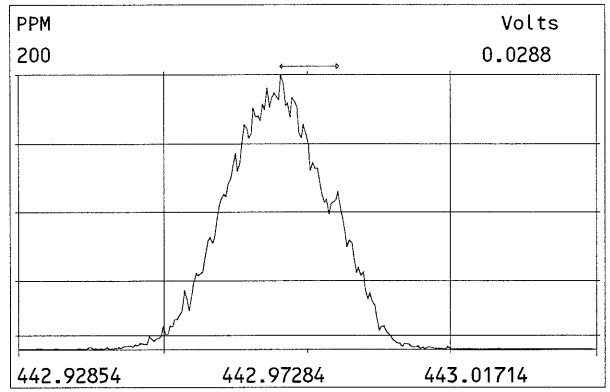


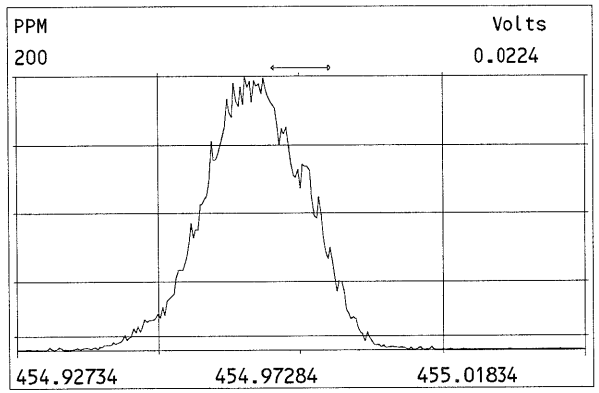


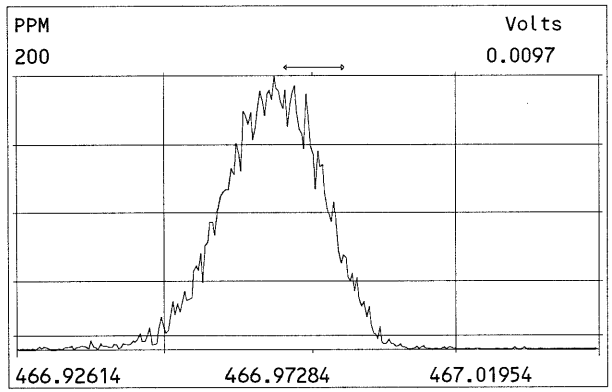
Peak Locate Examination: 4-APR-2018:16:40 File:04APR18Z
Experiment:1668PCB Function:6 Reference:PFK

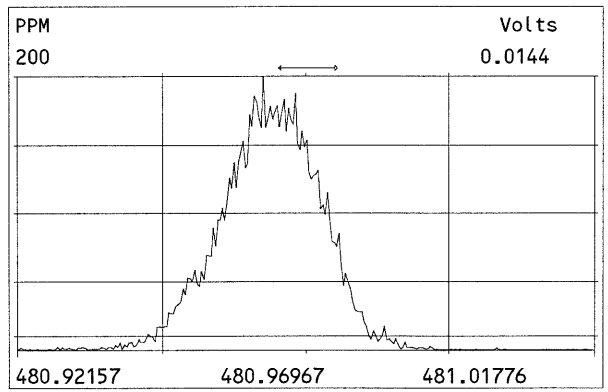


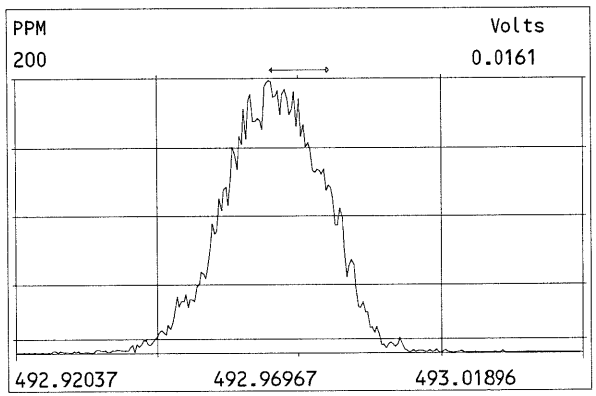


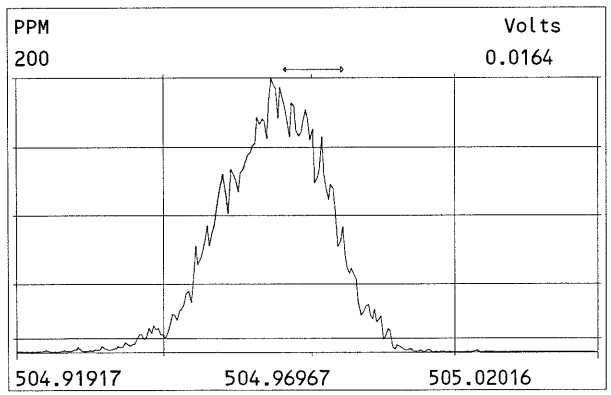


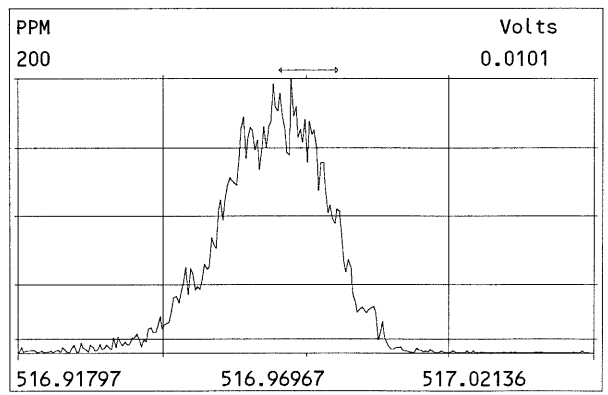




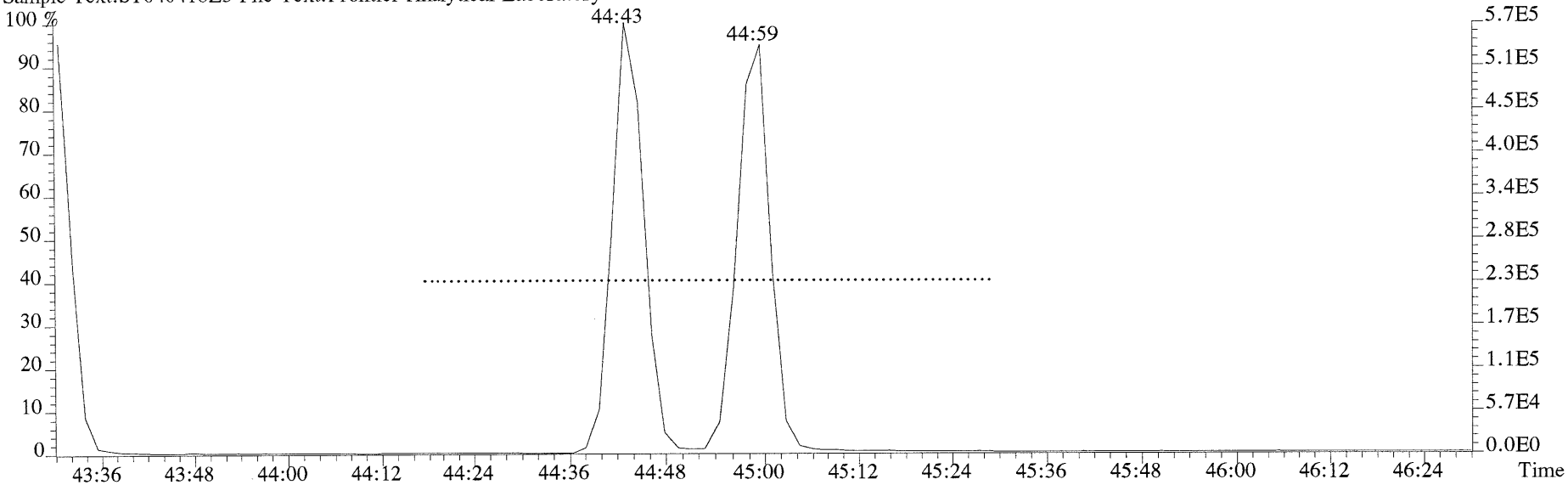








File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



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
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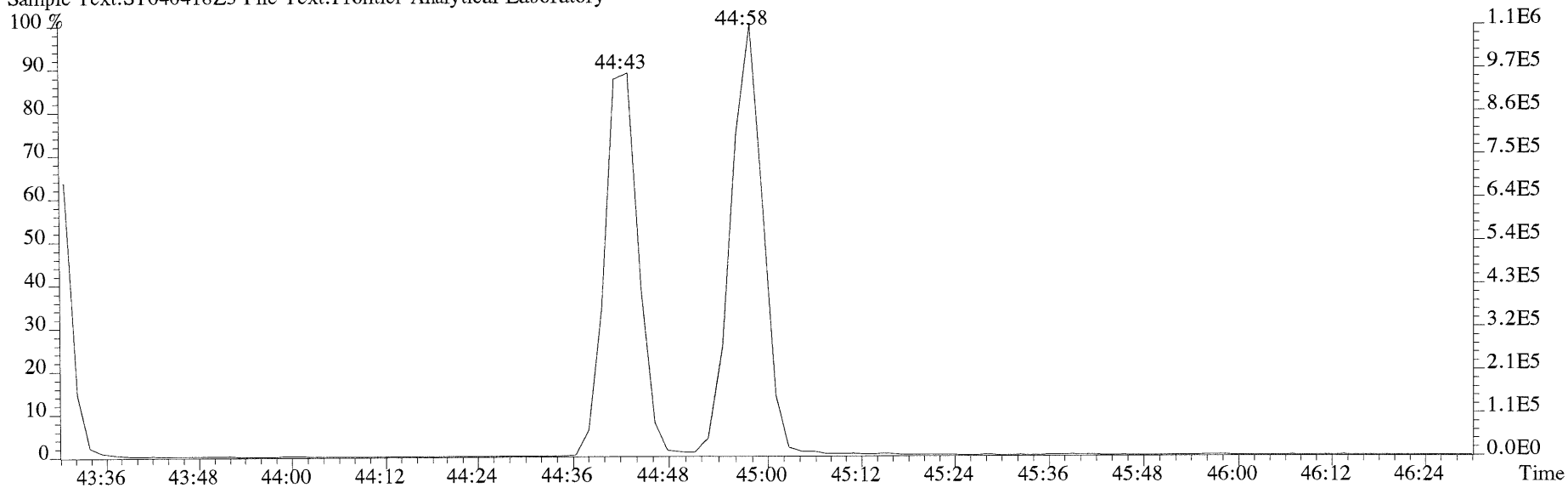
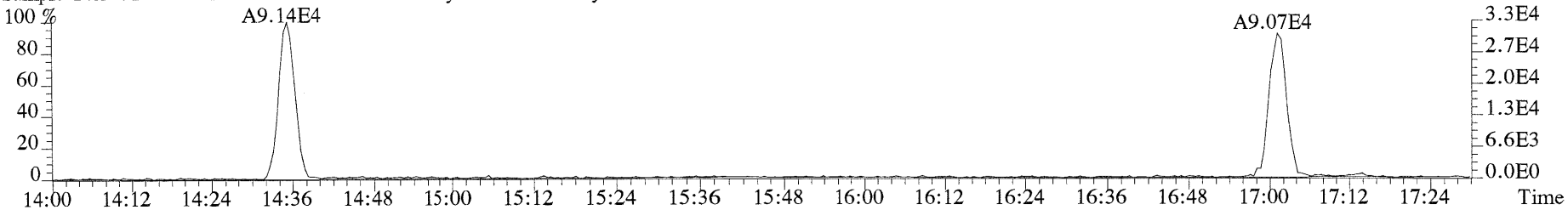
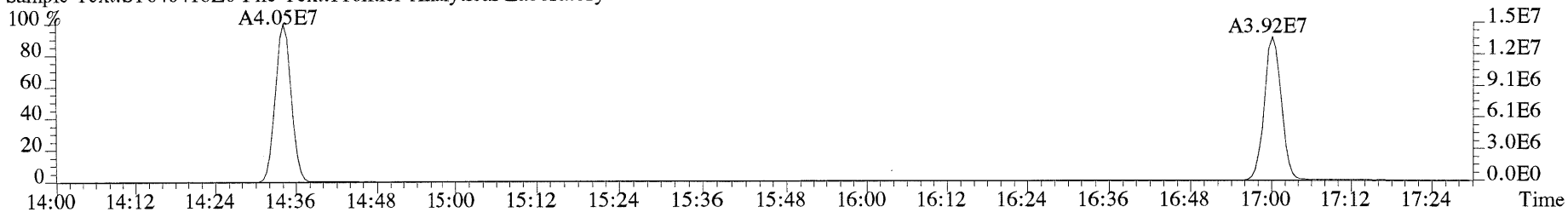


File:04APR18Z #1-784 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory

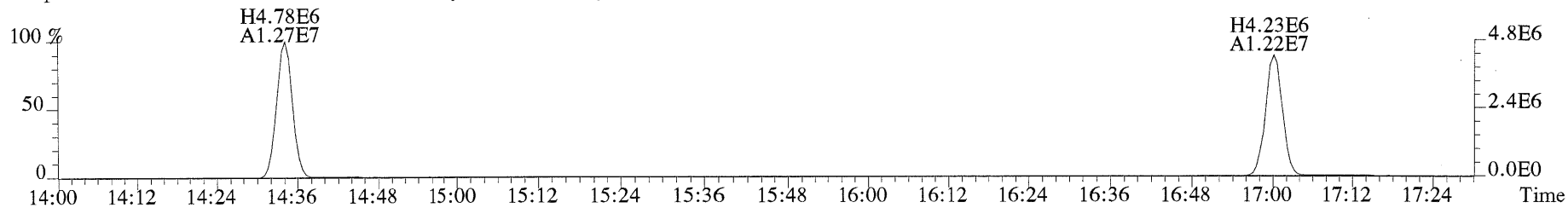


File:04APR18Z #1-784 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory

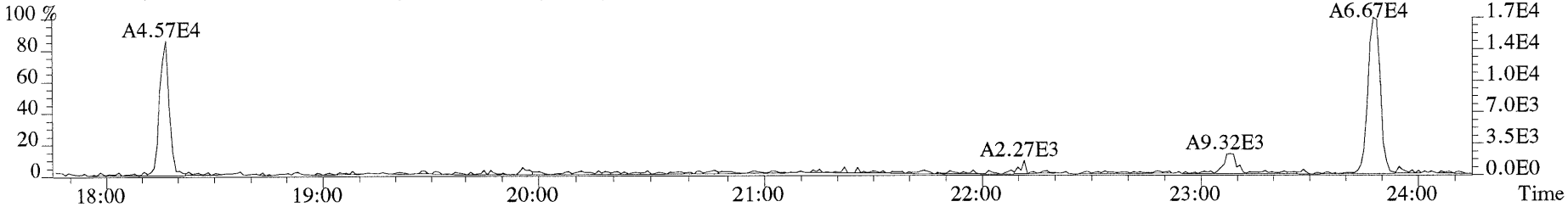
File:04APR18Z #1-784 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



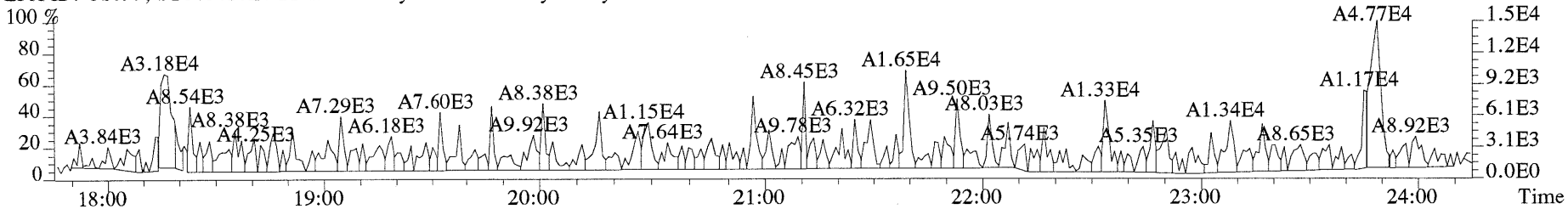
File:04APR18Z #1-784 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



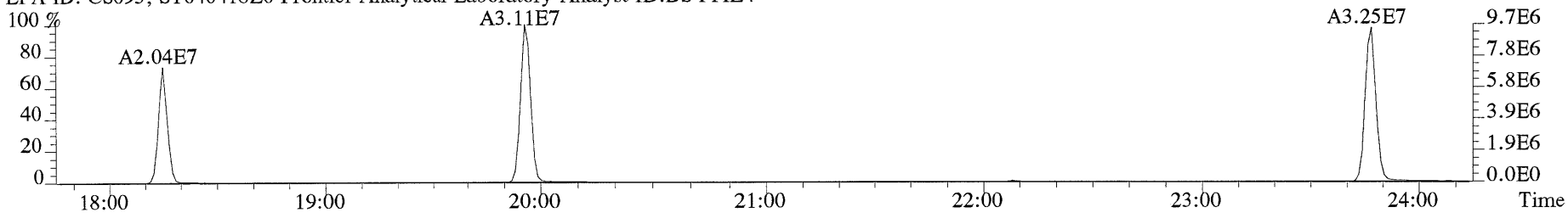
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID: CS095; ST040418Z0 Frontier Analytical Laboratory Analyst ID:BS FAL4



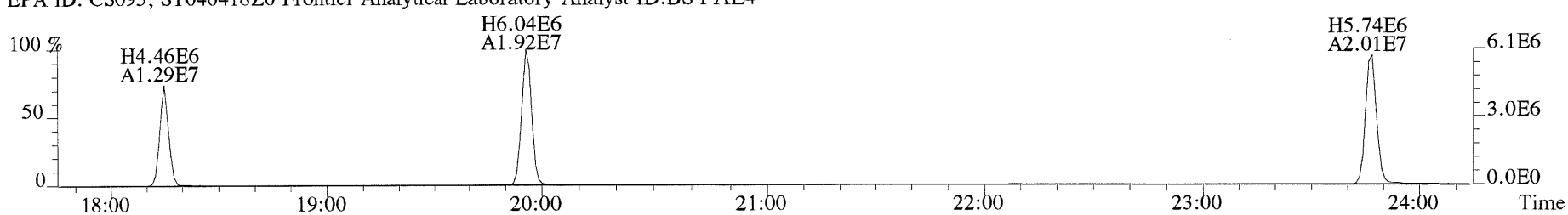
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID: CS095; ST040418Z0 Frontier Analytical Laboratory Analyst ID:BS FAL4



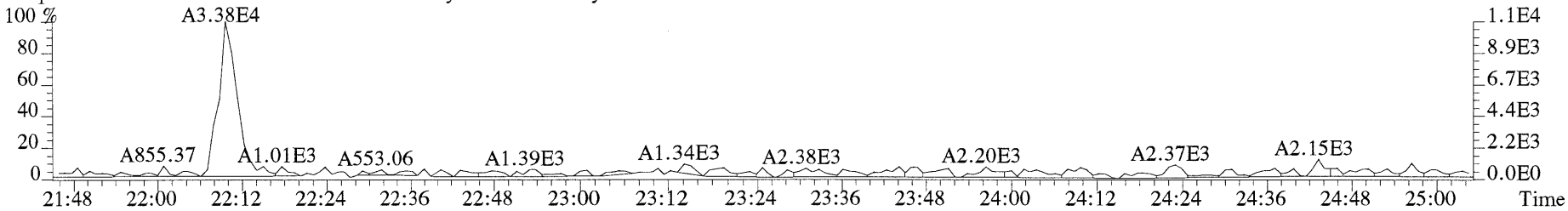
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID: CS095; ST040418Z0 Frontier Analytical Laboratory Analyst ID:BS FAL4



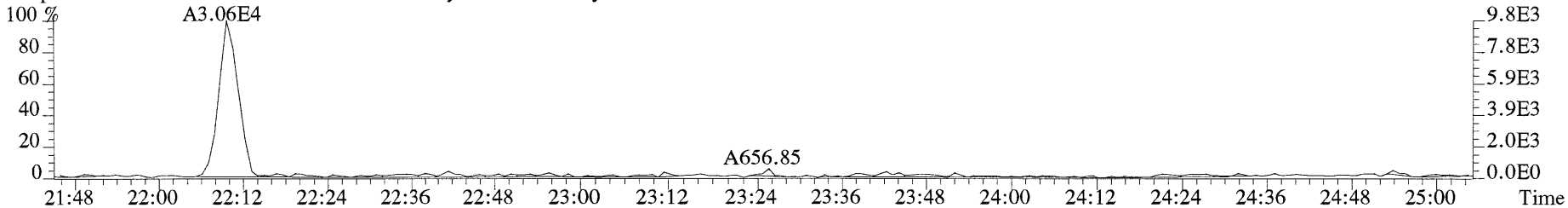
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID: CS095; ST040418Z0 Frontier Analytical Laboratory Analyst ID:BS FAL4



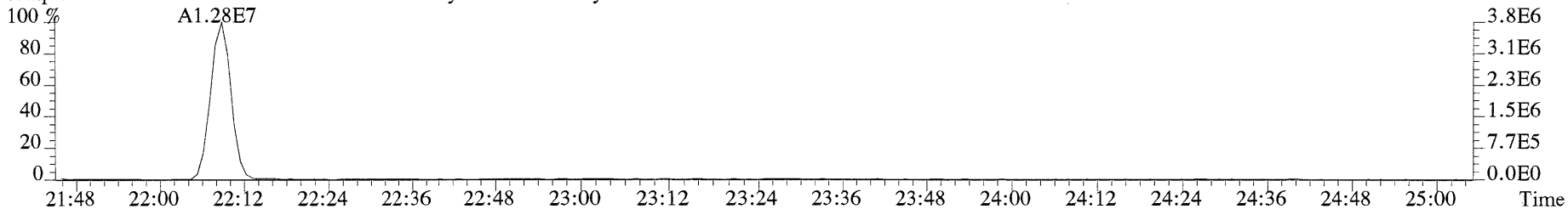
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



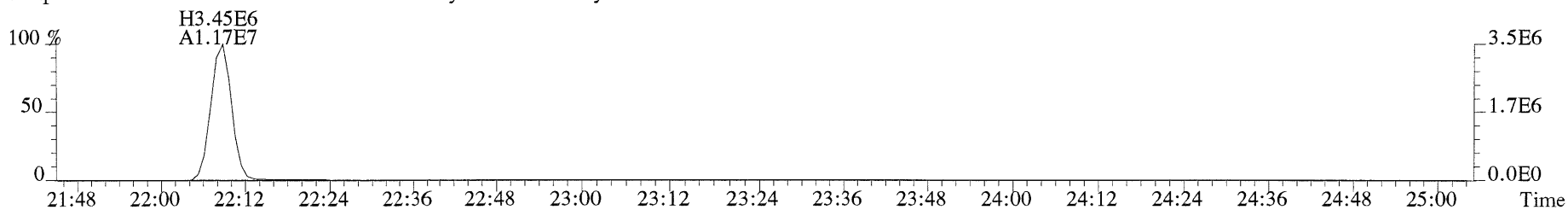
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



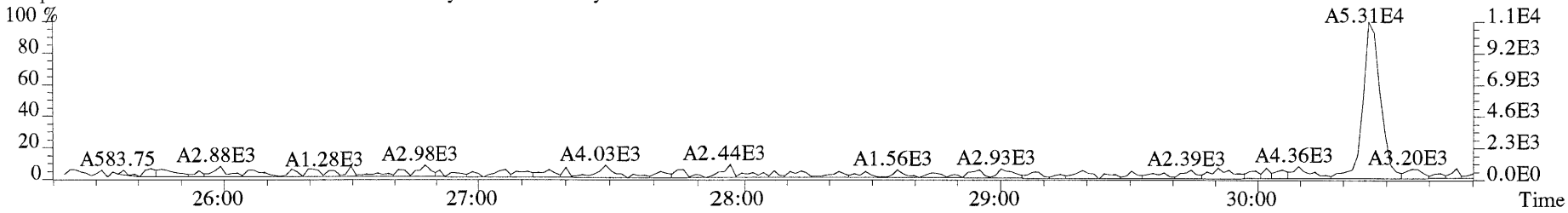
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



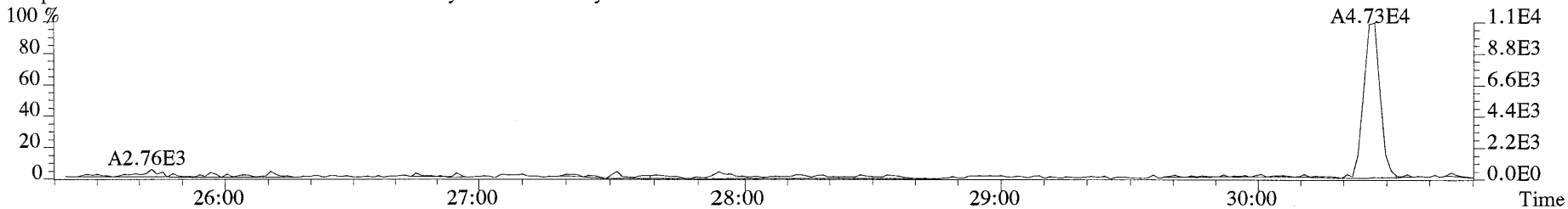
File:04APR18Z #1-520 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



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
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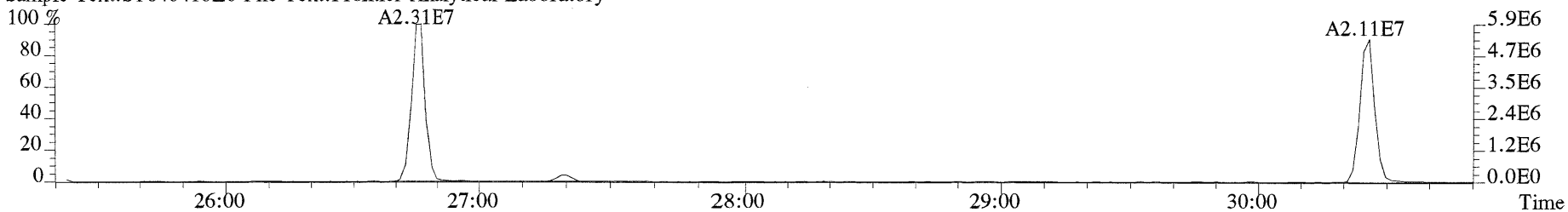
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



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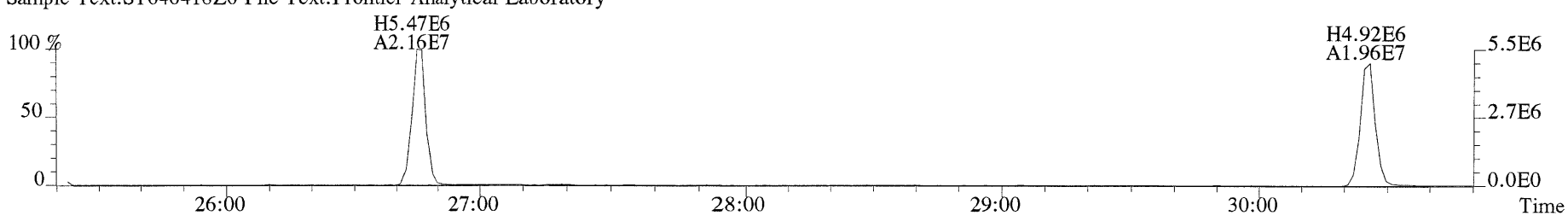
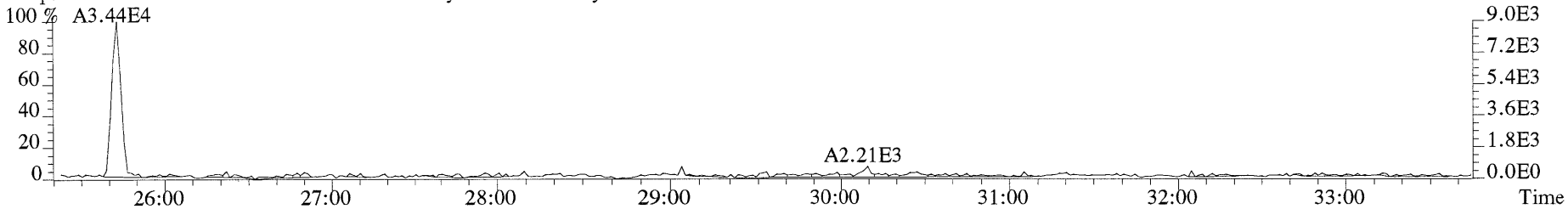
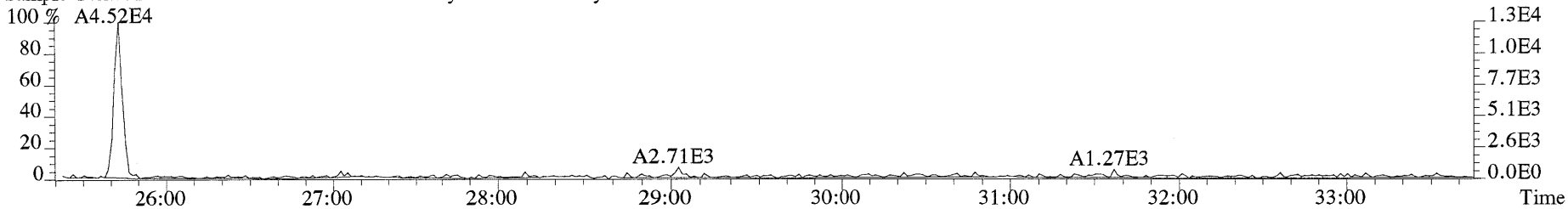


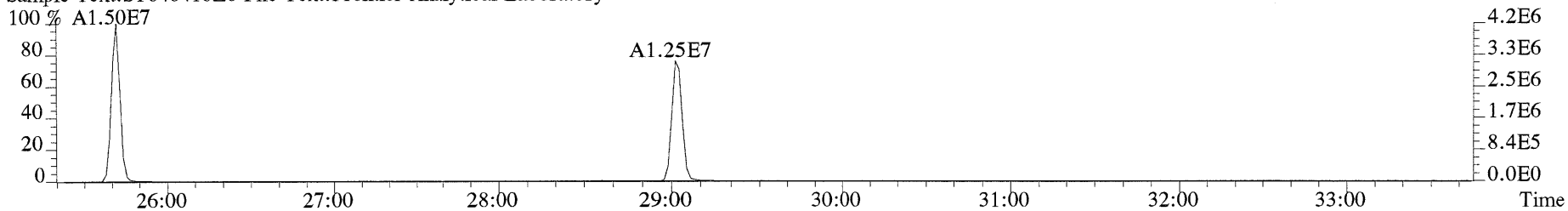
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



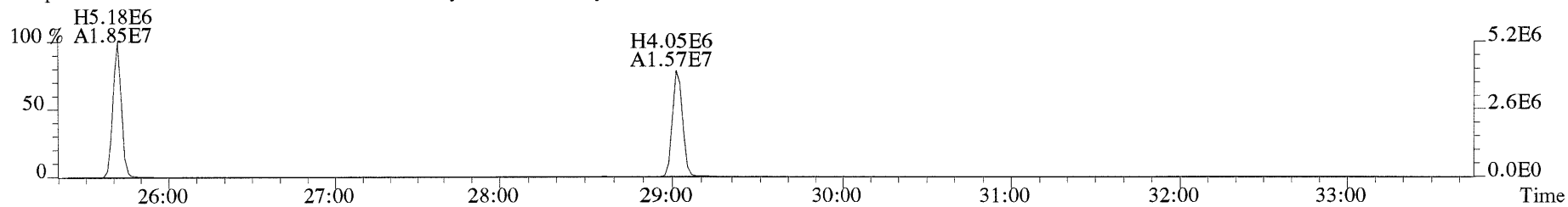
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



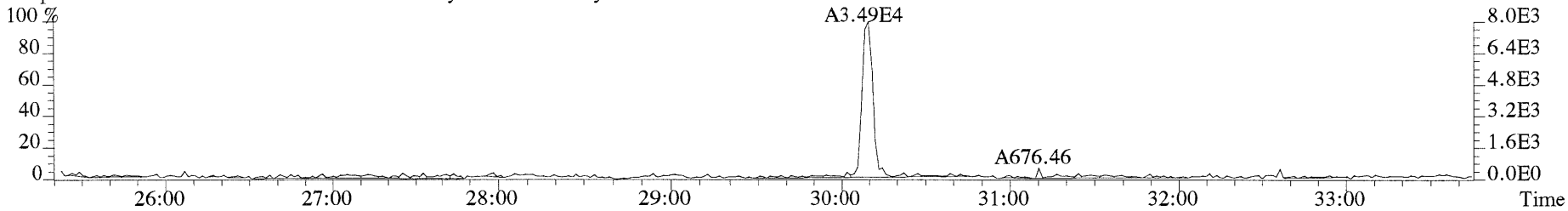
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



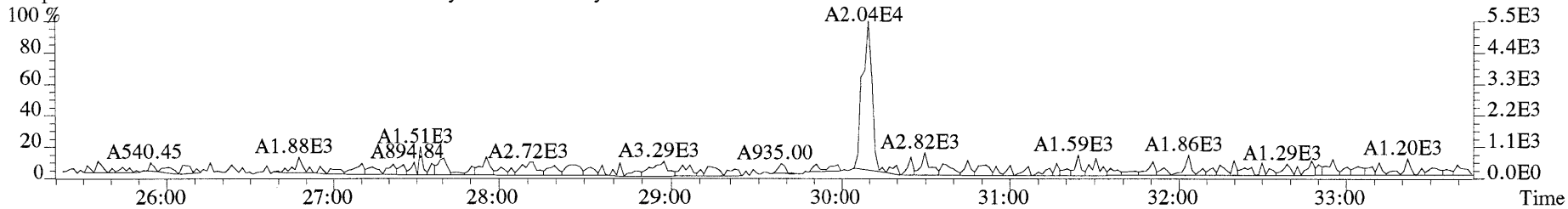
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



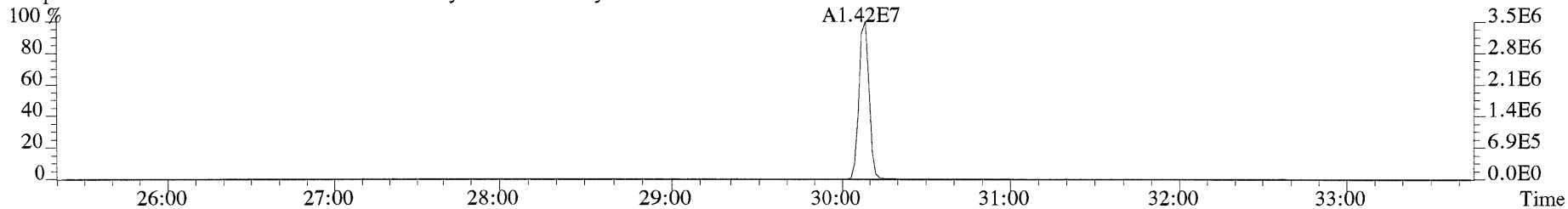
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



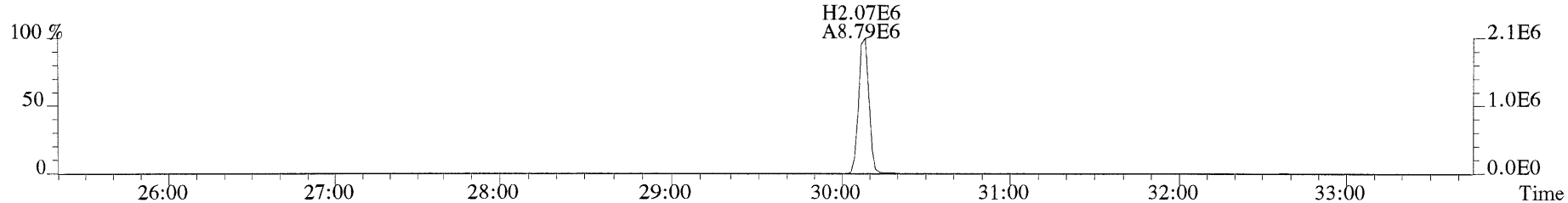
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



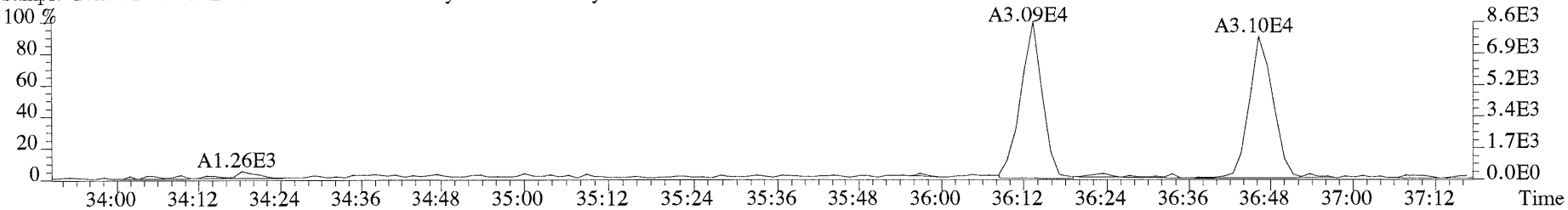
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



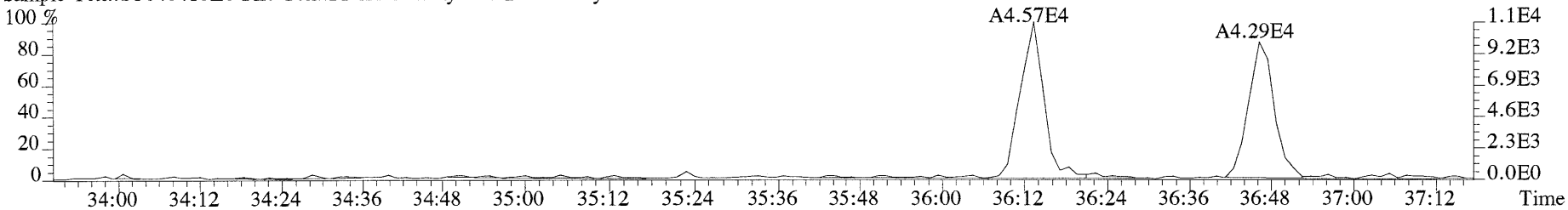
File:04APR18Z #1-401 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



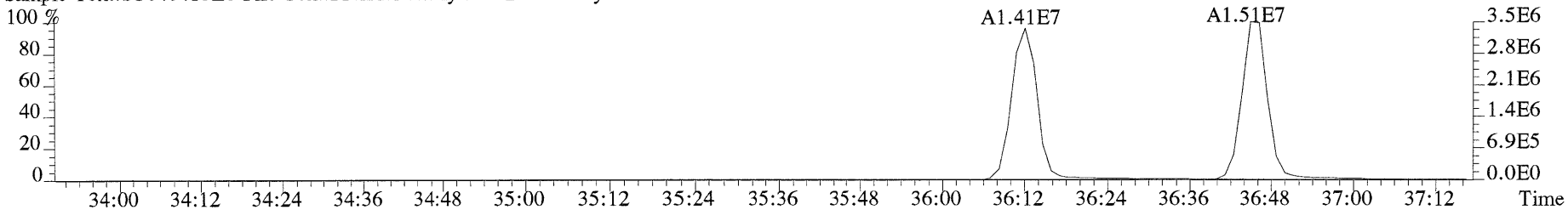
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



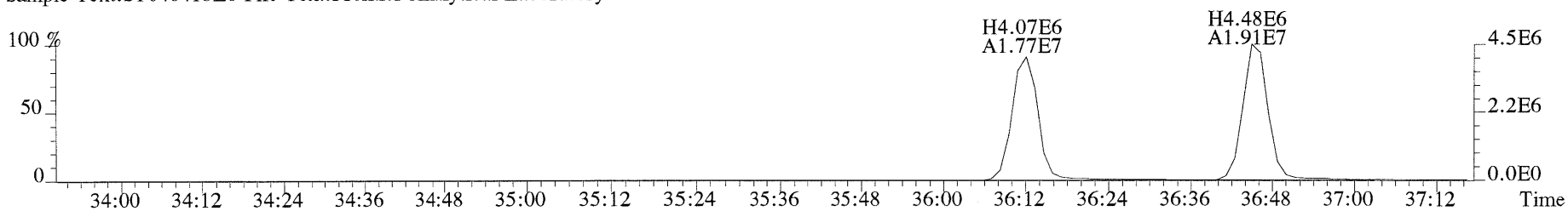
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



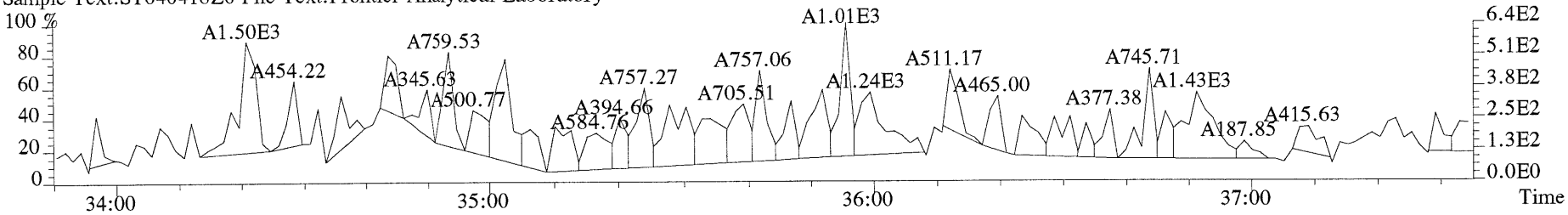
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



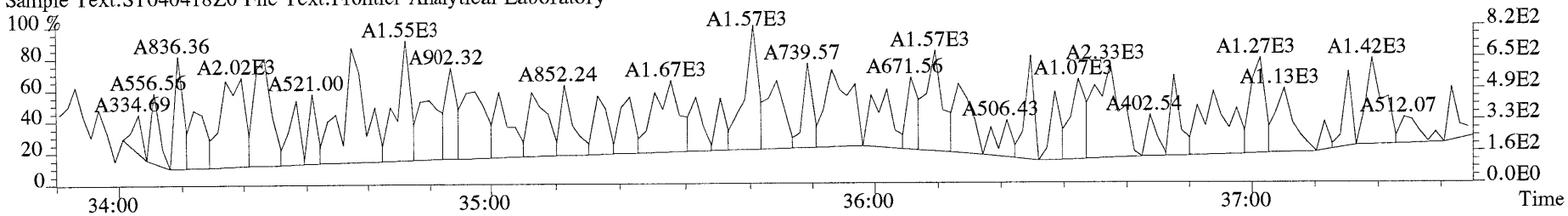
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



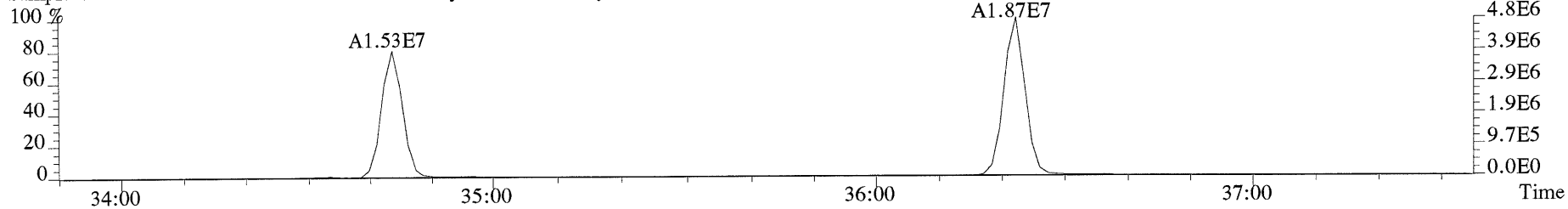
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



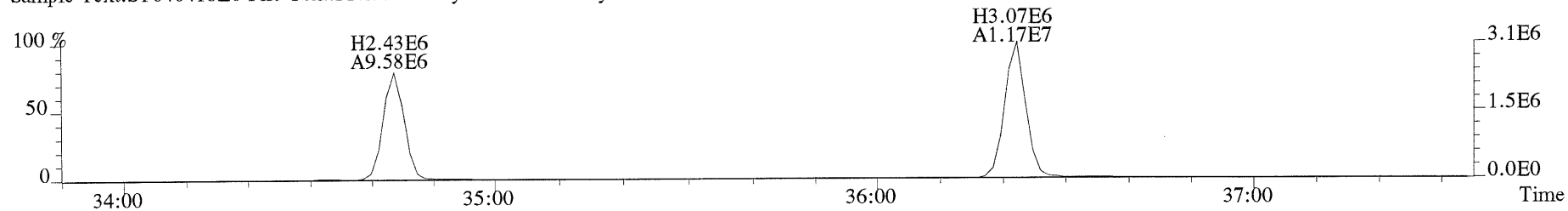
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



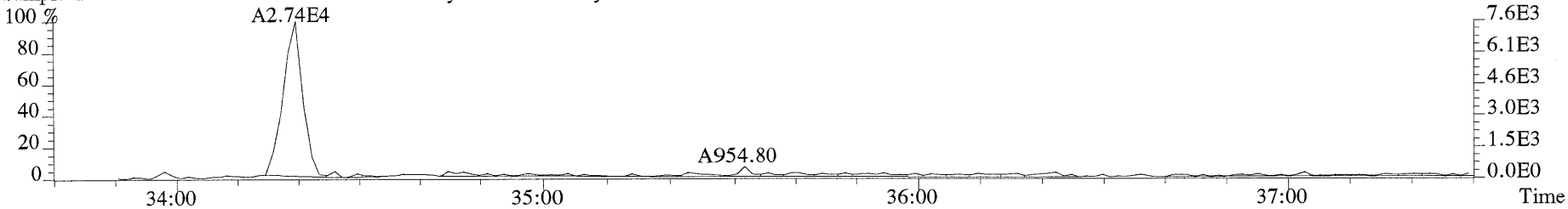
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



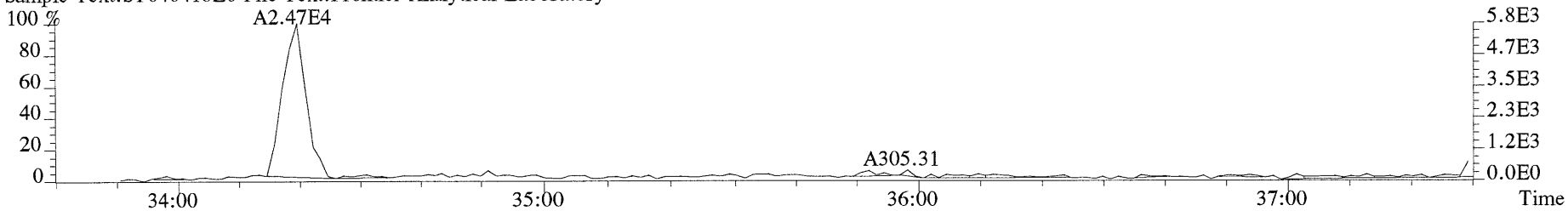
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



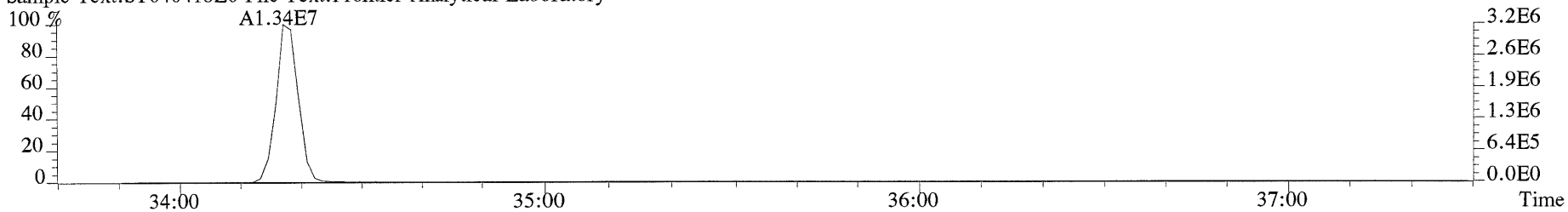
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



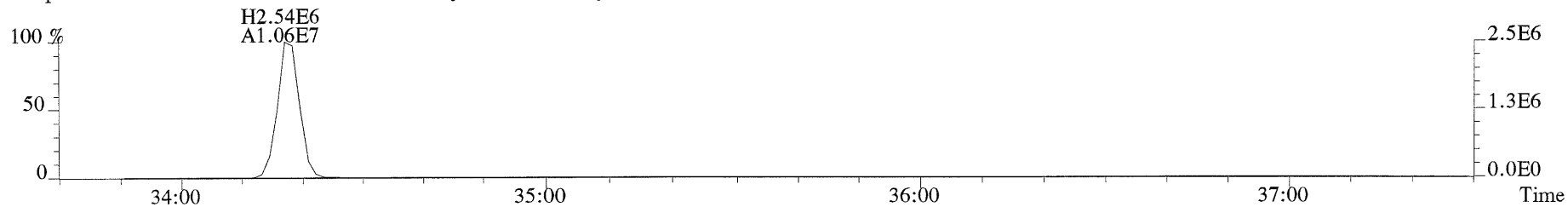
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



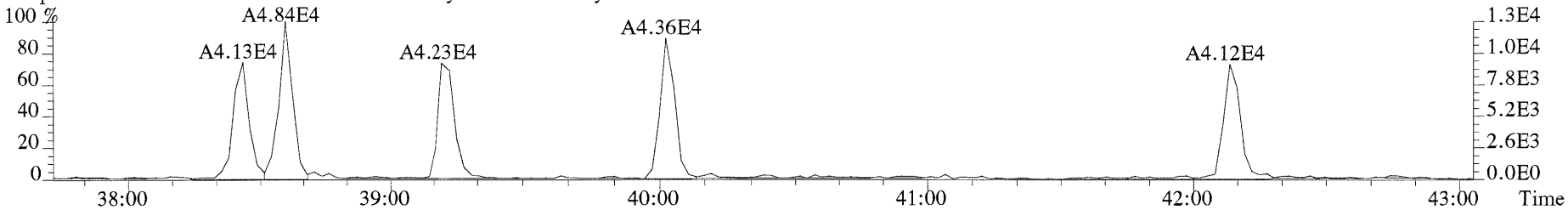
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



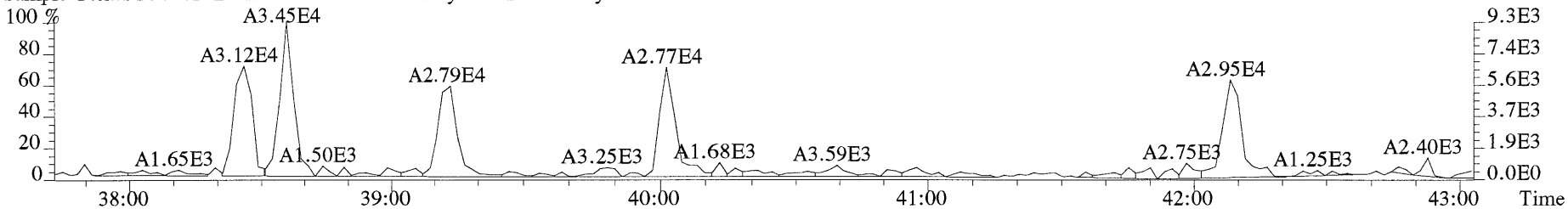
File:04APR18Z #1-183 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



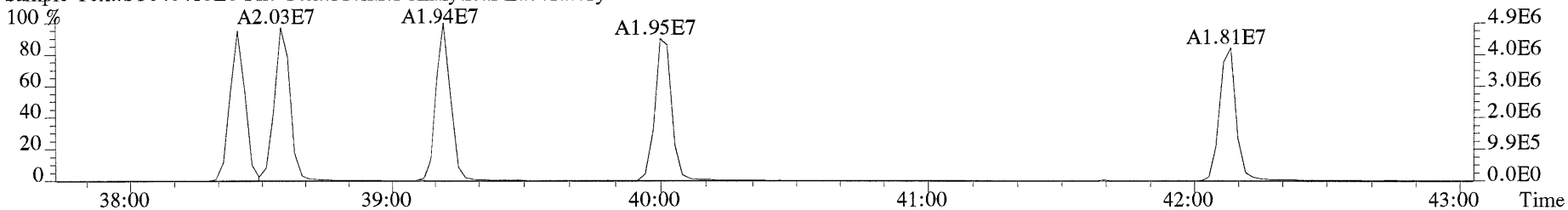
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



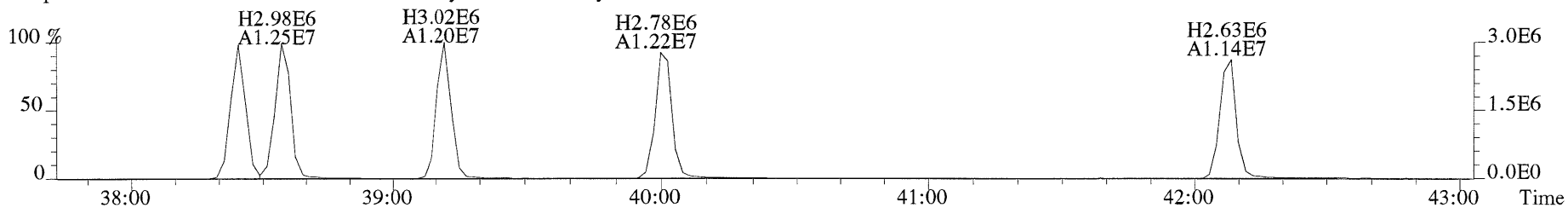
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



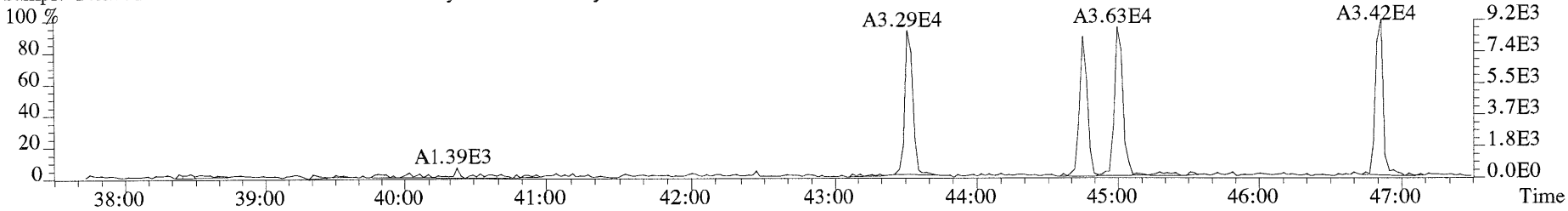
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



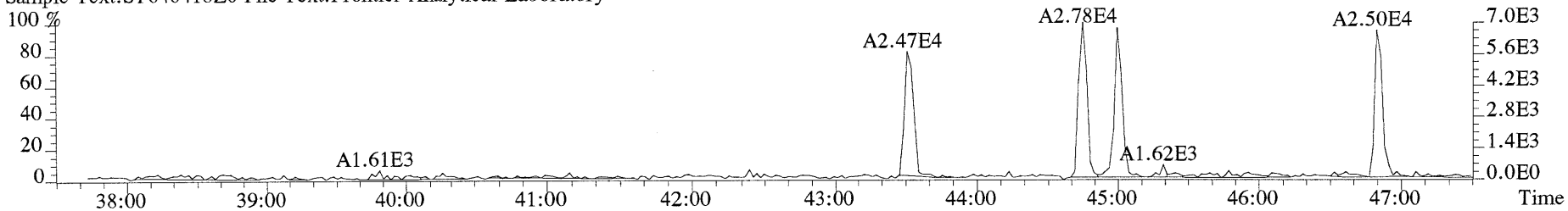
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



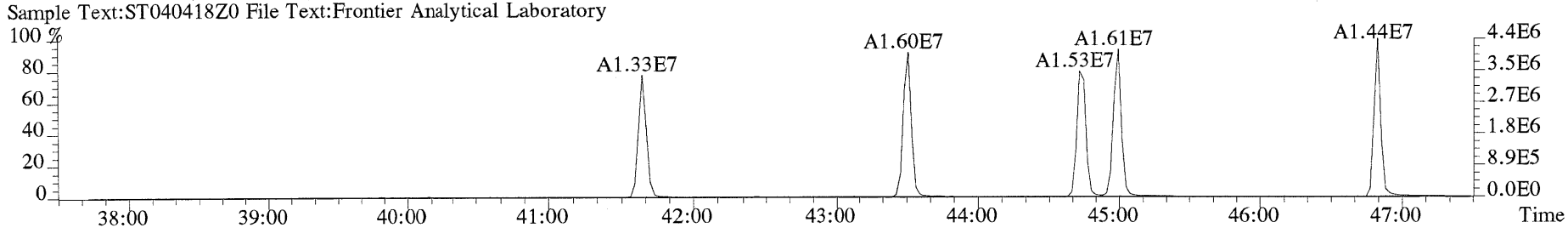
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



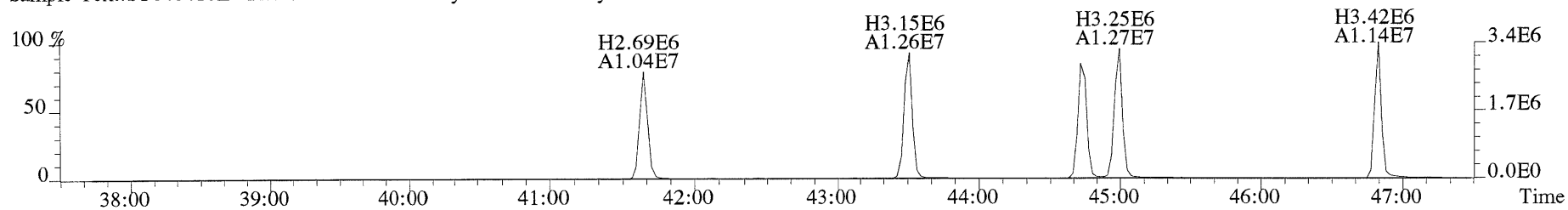
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



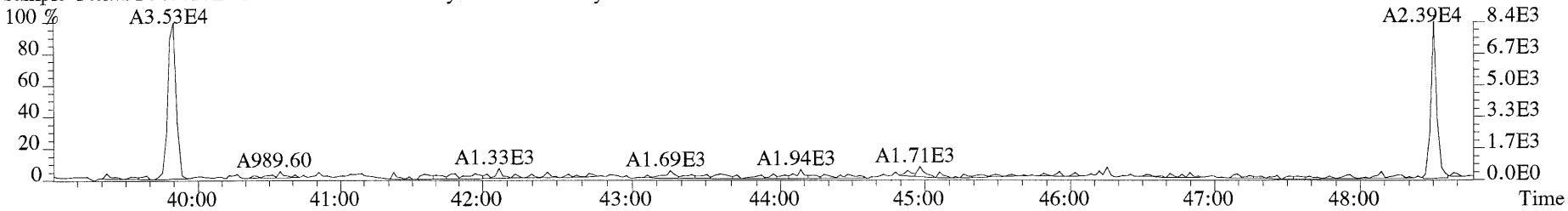
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



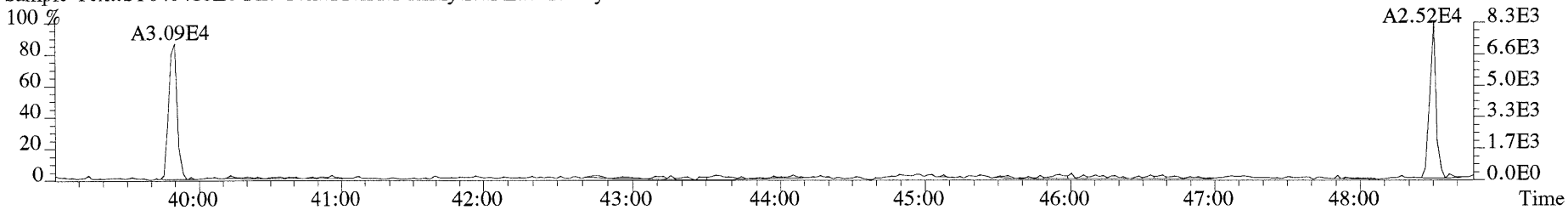
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



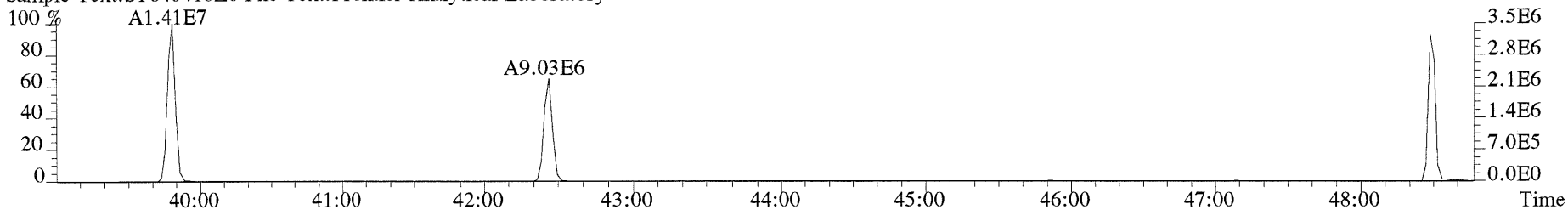
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



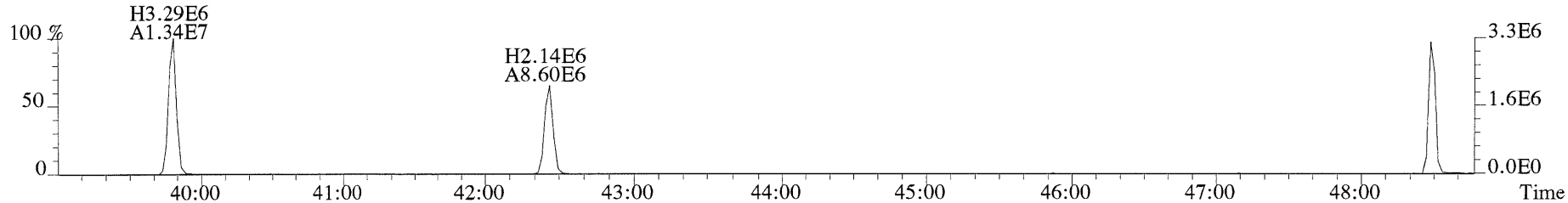
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



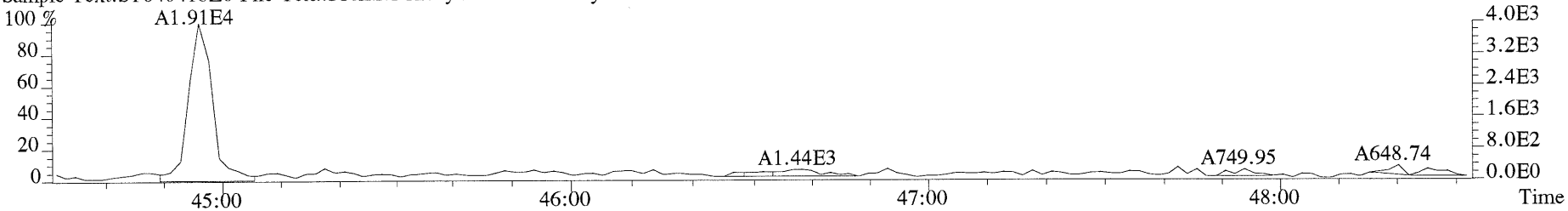
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



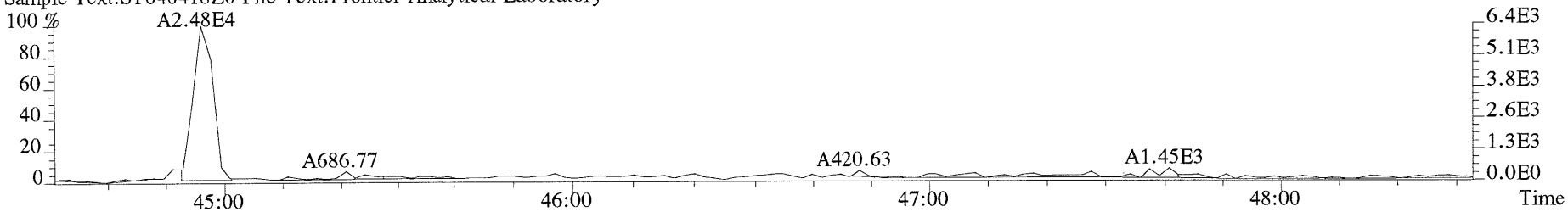
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



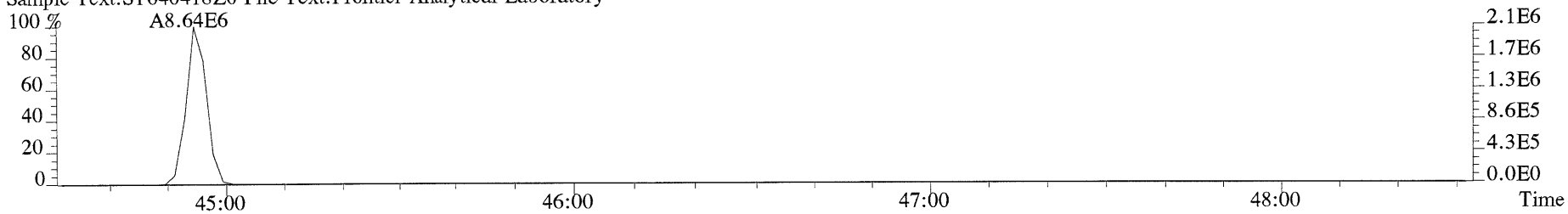
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



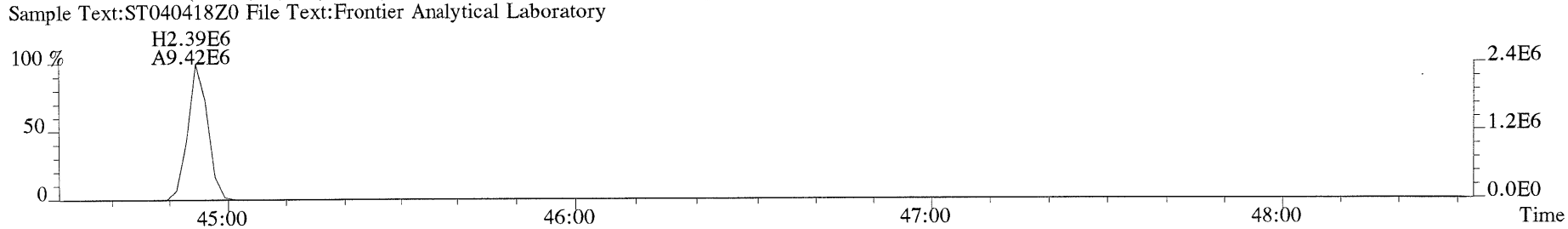
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



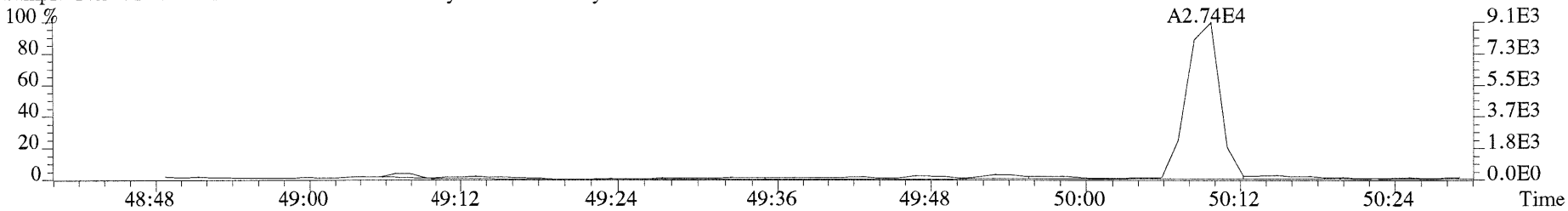
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



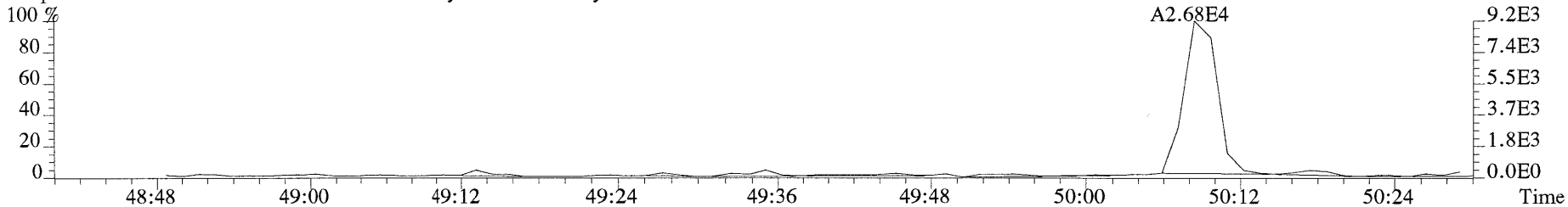
File:04APR18Z #1-404 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



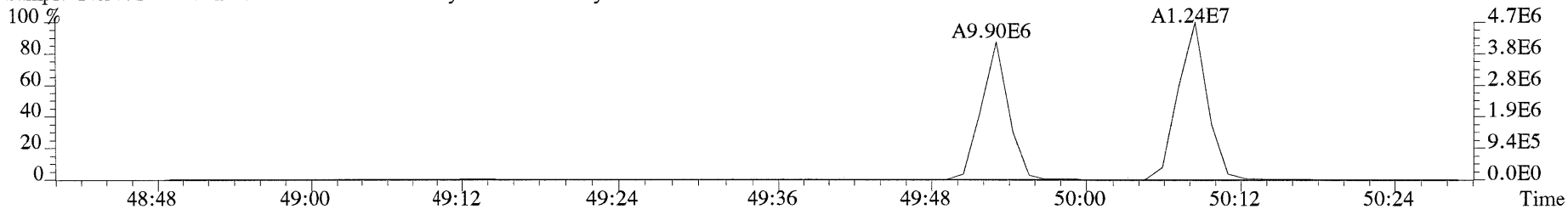
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



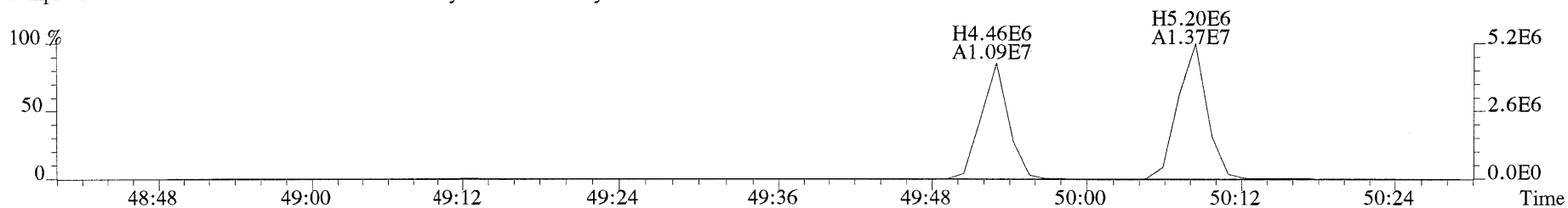
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



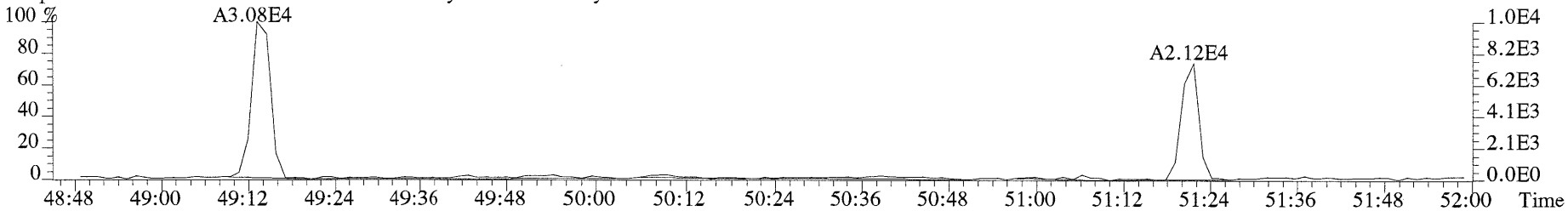
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



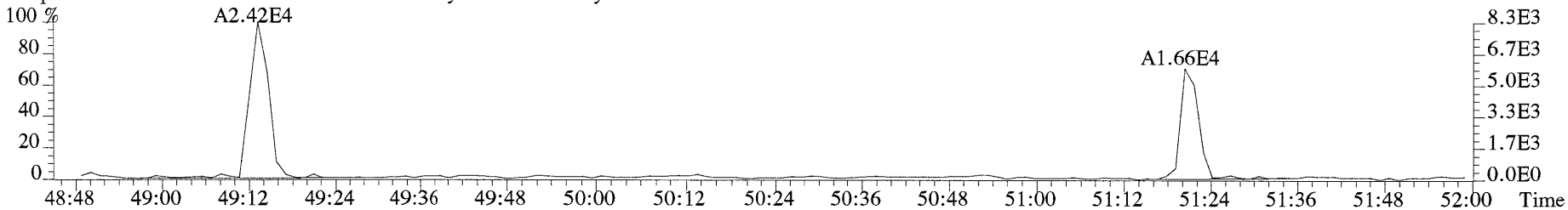
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



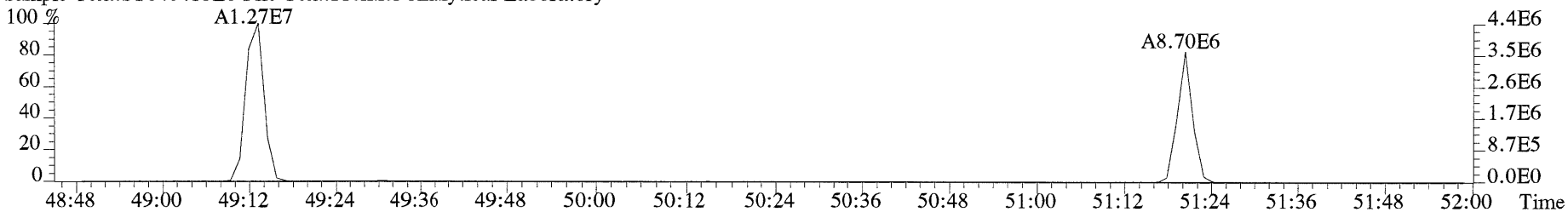
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



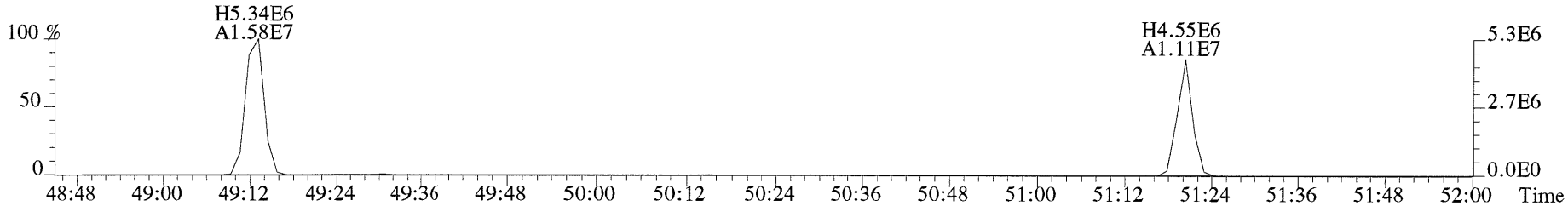
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



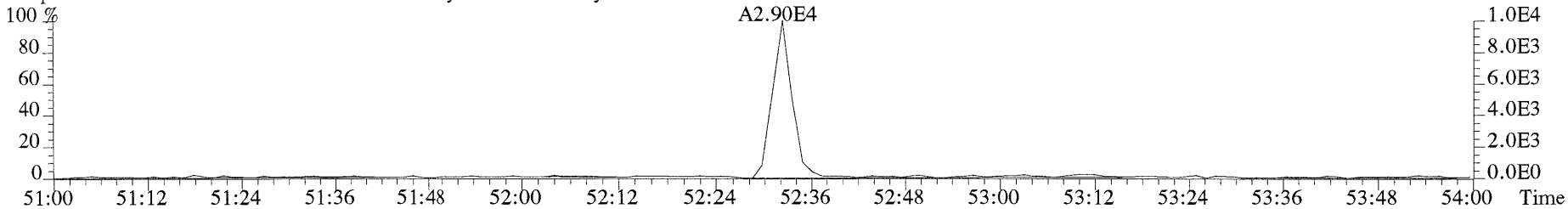
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



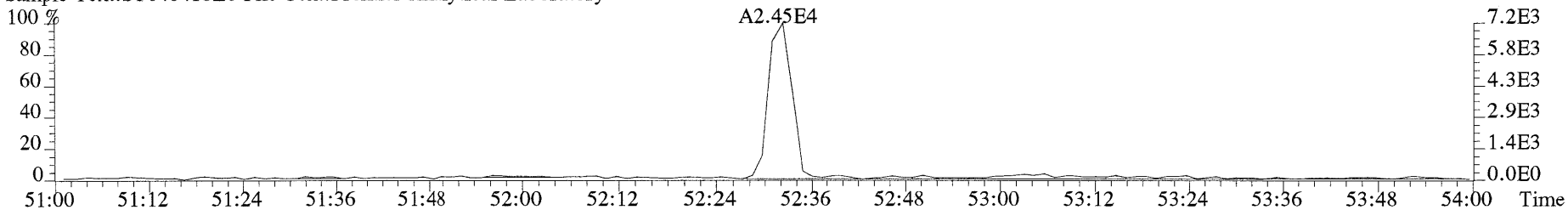
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



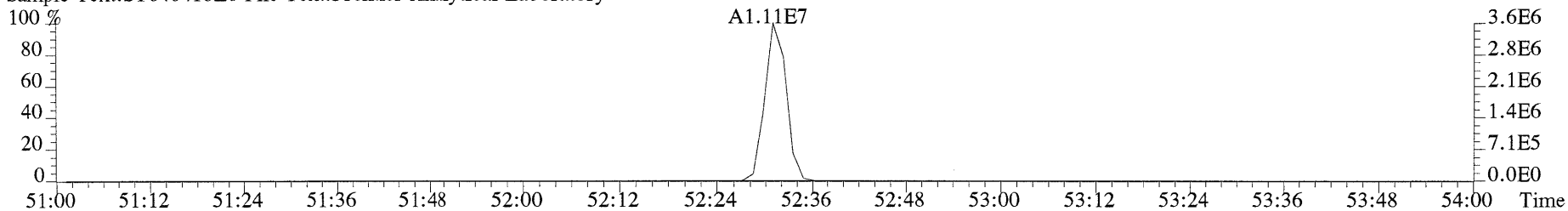
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



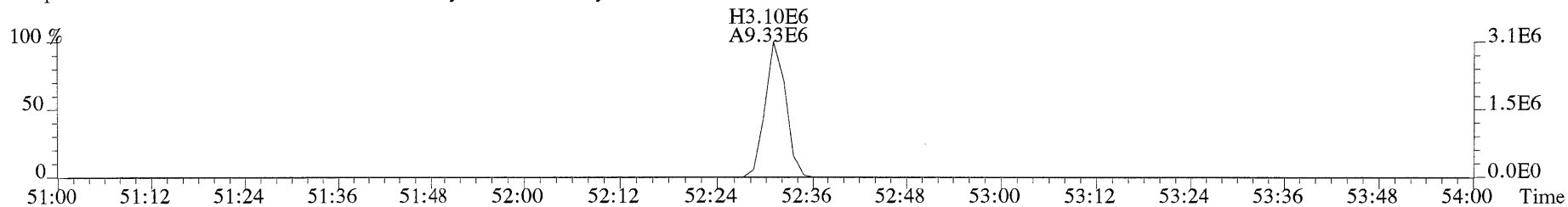
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



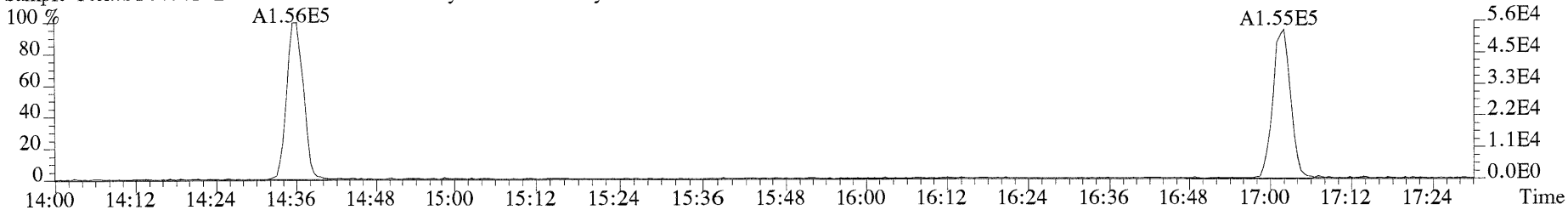
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



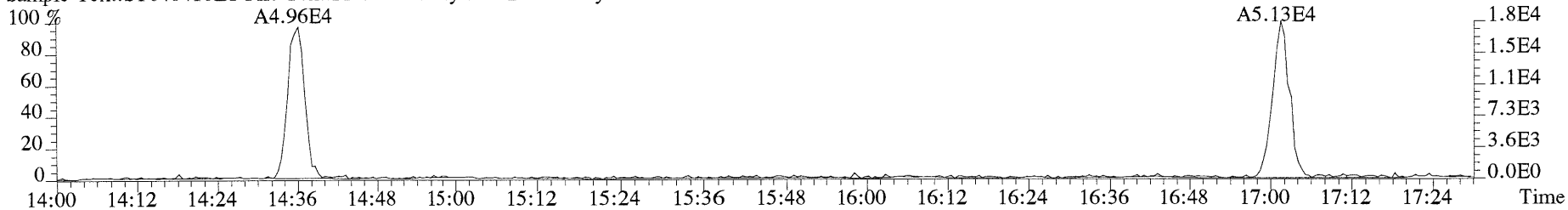
File:04APR18Z #1-314 Acq: 4-APR-2018 16:40:39 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z0 File Text:Frontier Analytical Laboratory



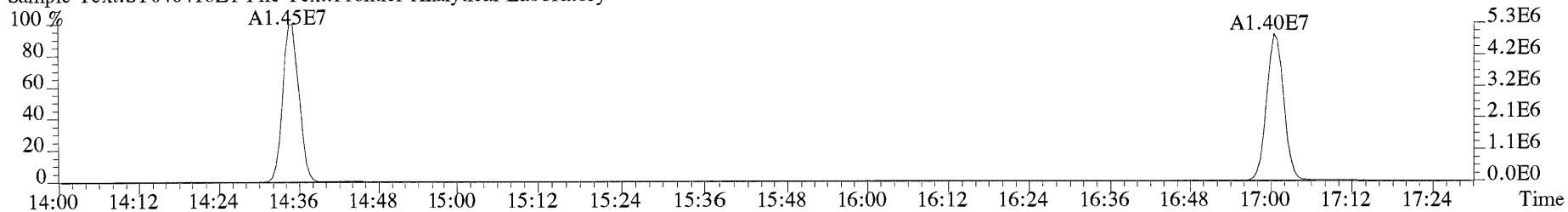
File:04APR18Z #1-784 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



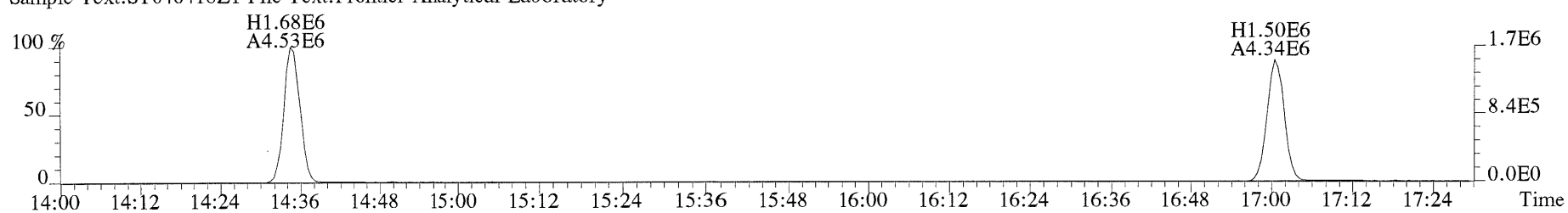
File:04APR18Z #1-784 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



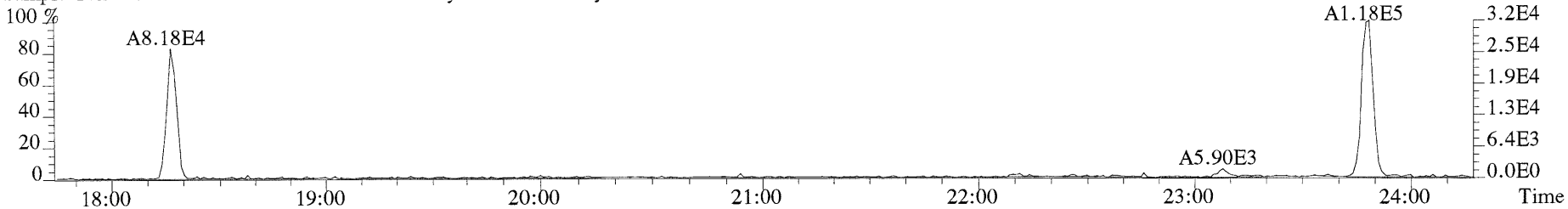
File:04APR18Z #1-784 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



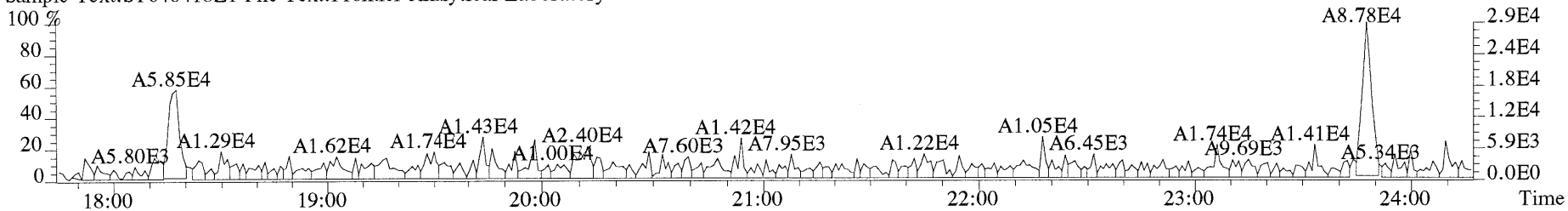
File:04APR18Z #1-784 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



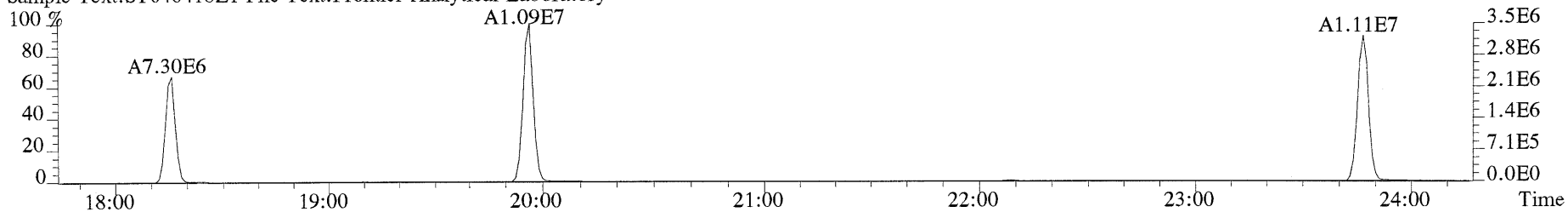
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



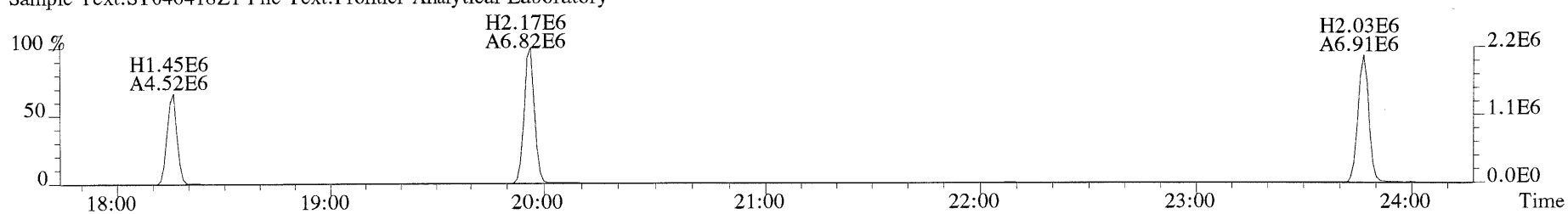
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



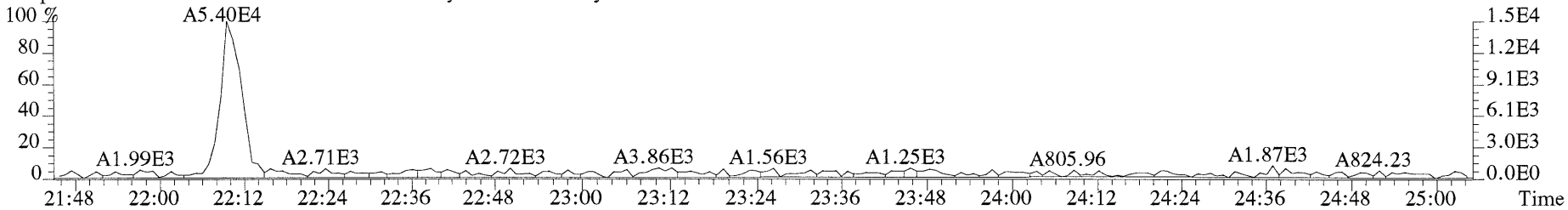
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



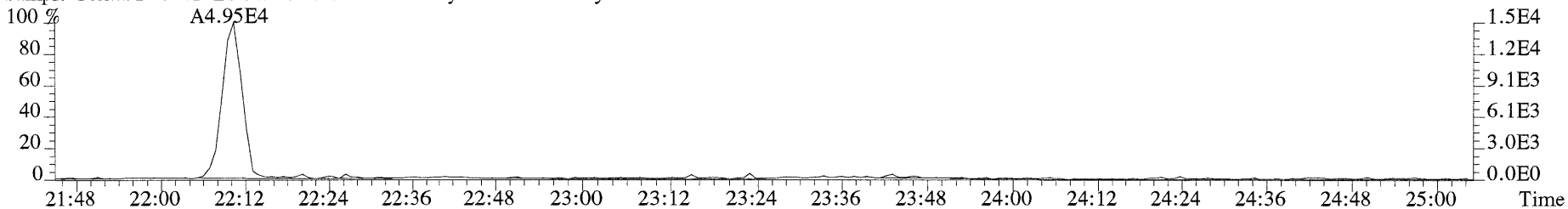
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



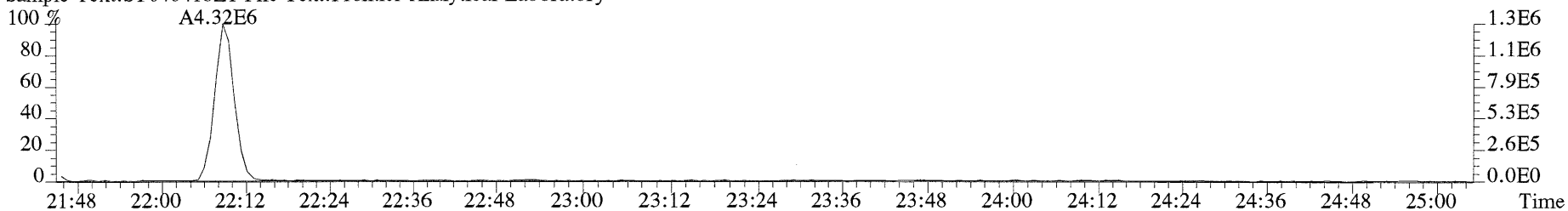
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



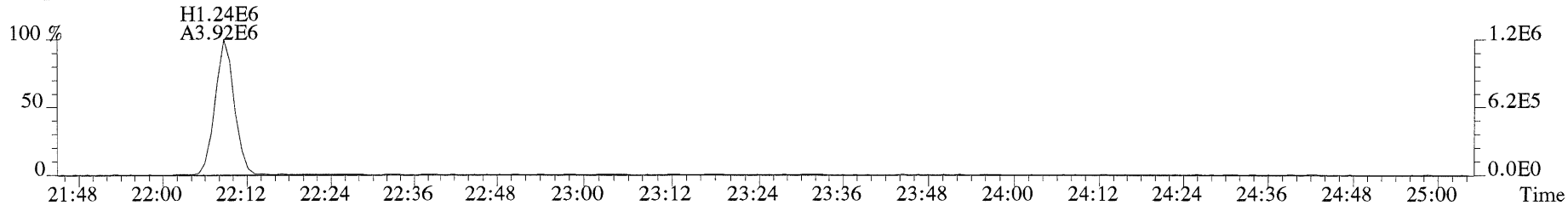
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



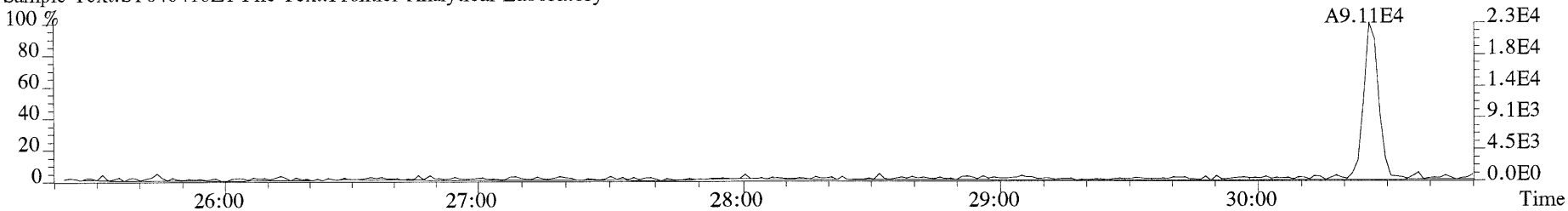
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



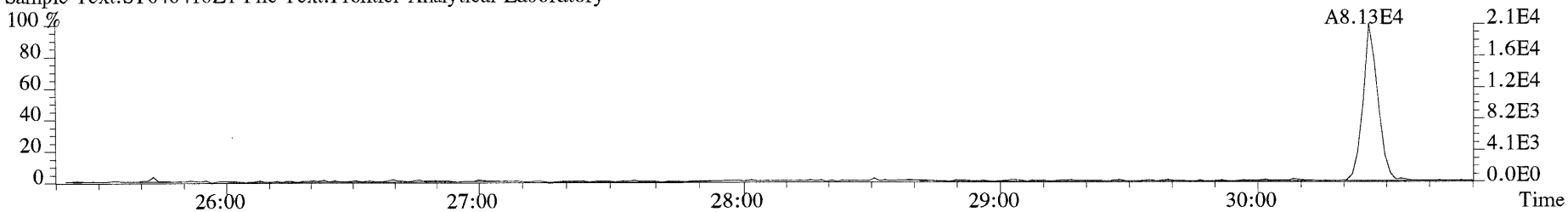
File:04APR18Z #1-520 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



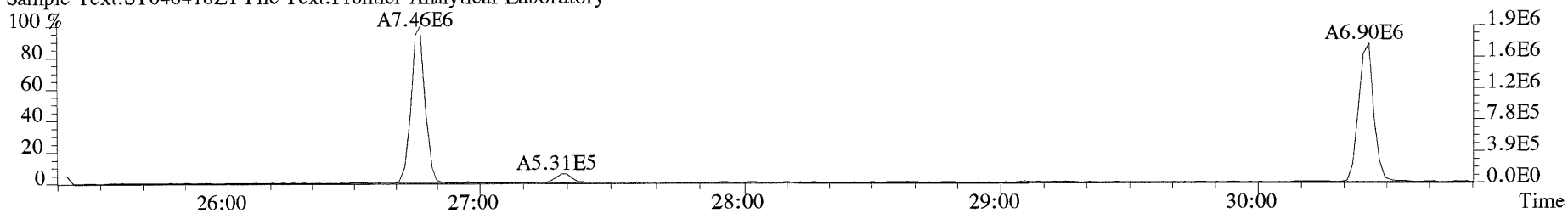
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



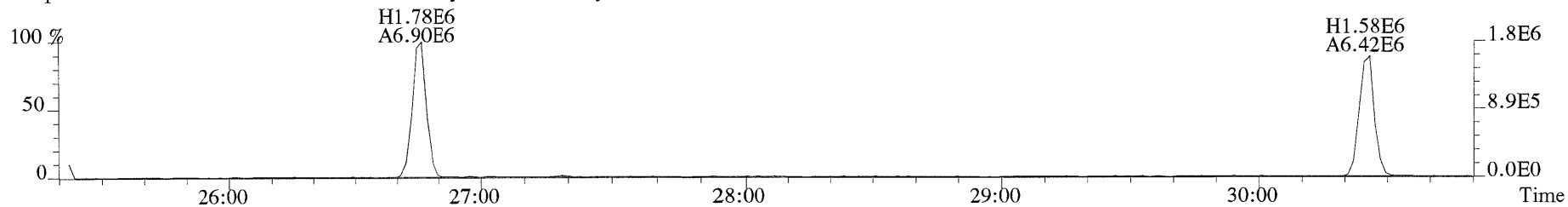
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



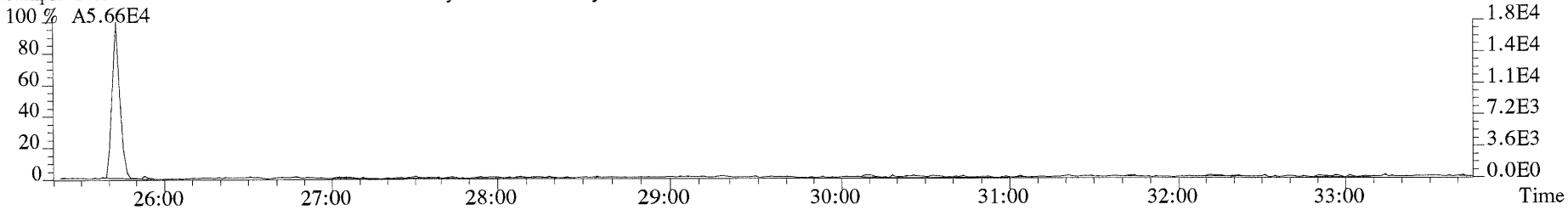
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



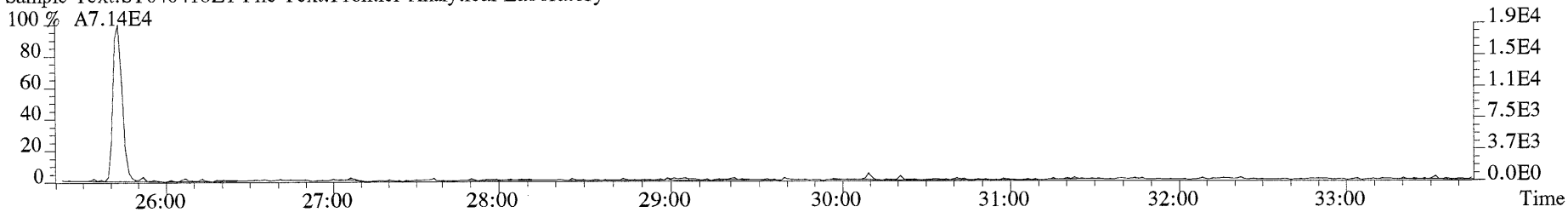
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



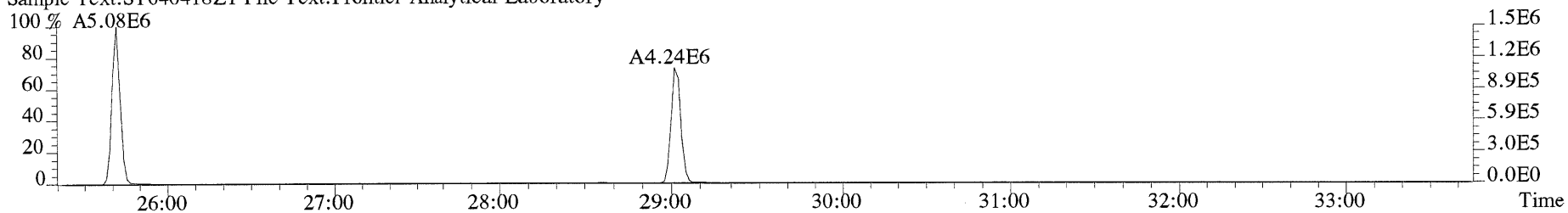
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



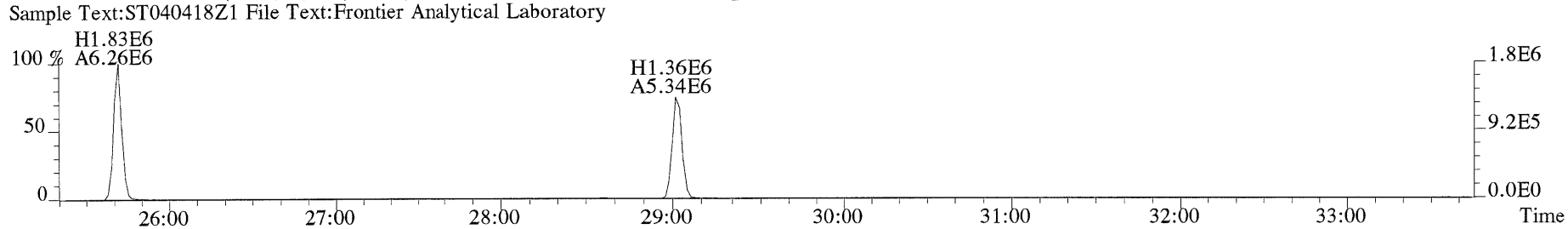
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



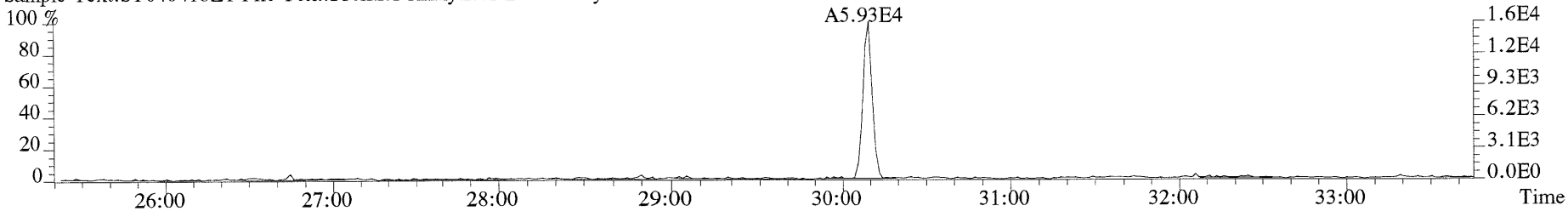
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



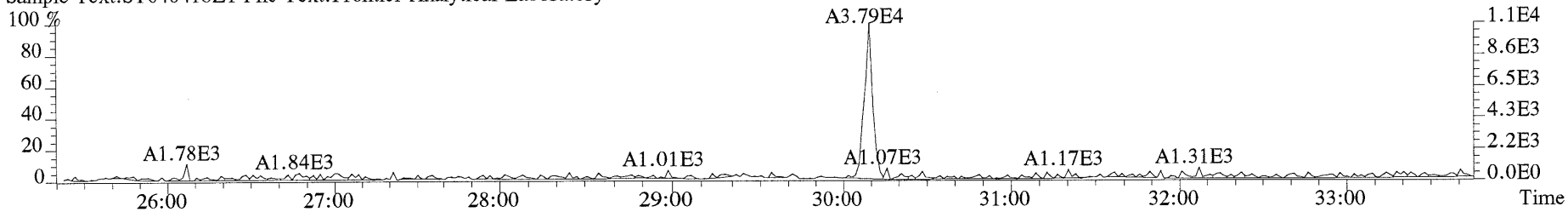
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



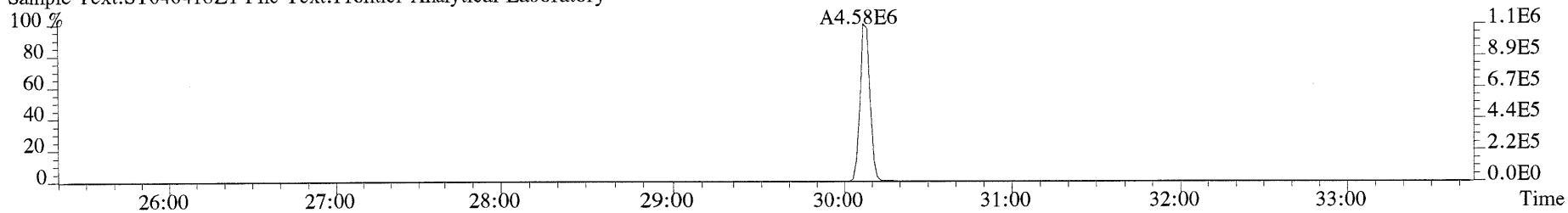
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



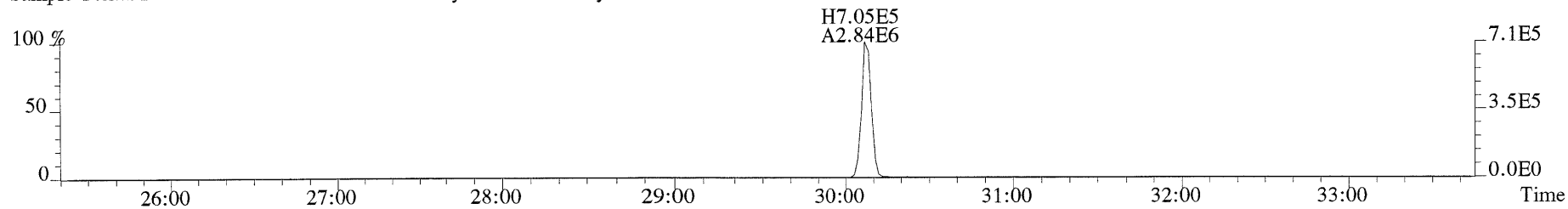
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



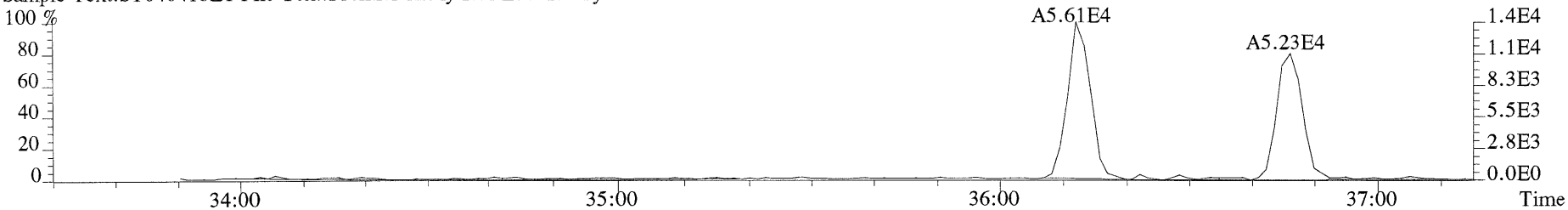
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



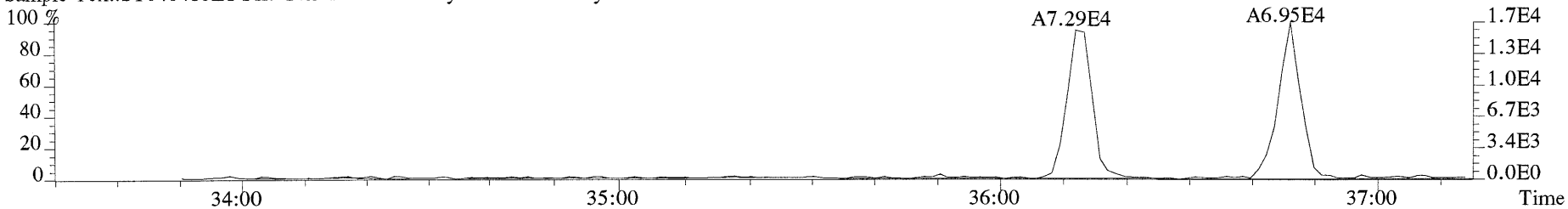
File:04APR18Z #1-401 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



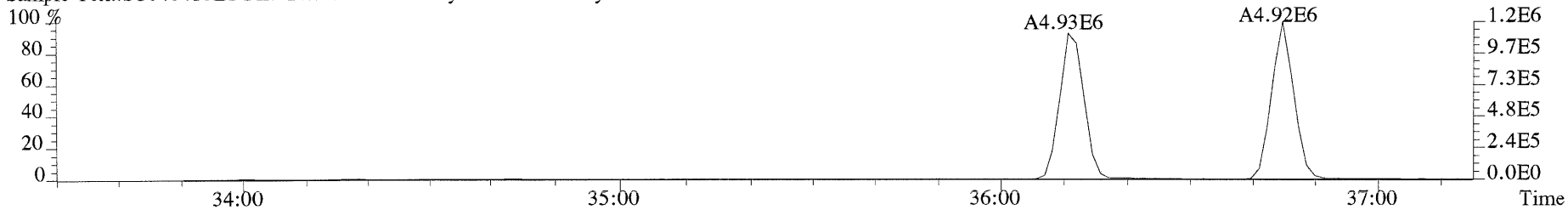
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



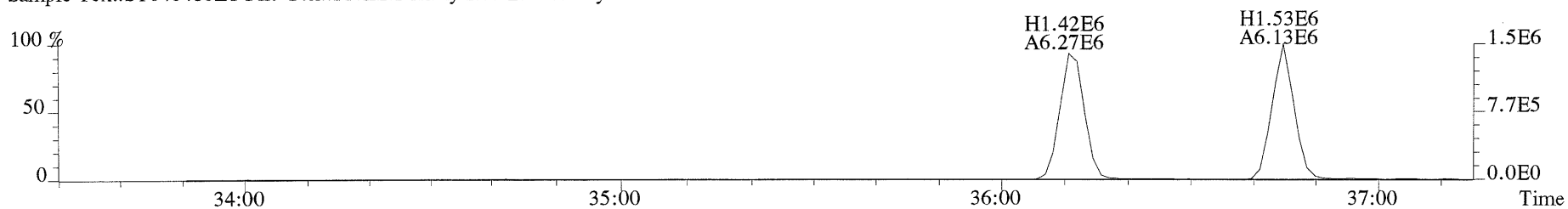
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



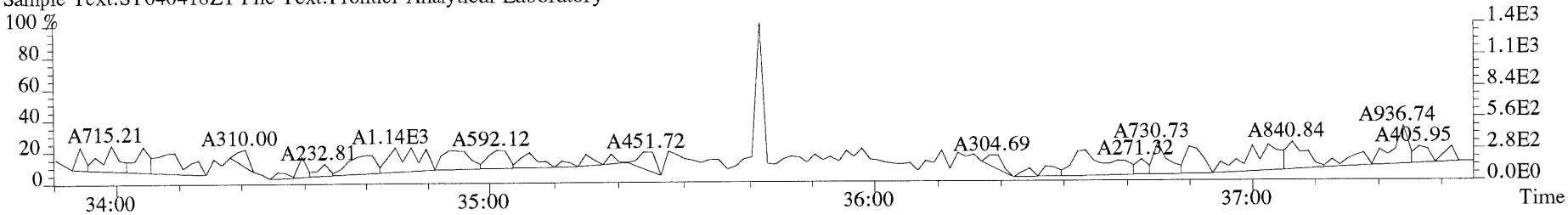
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



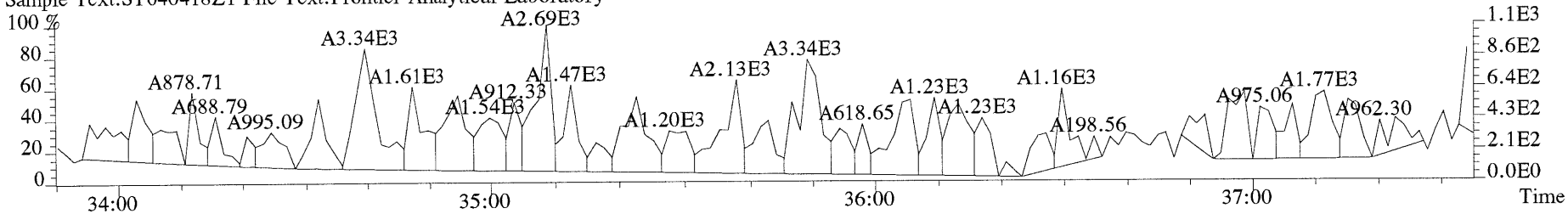
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



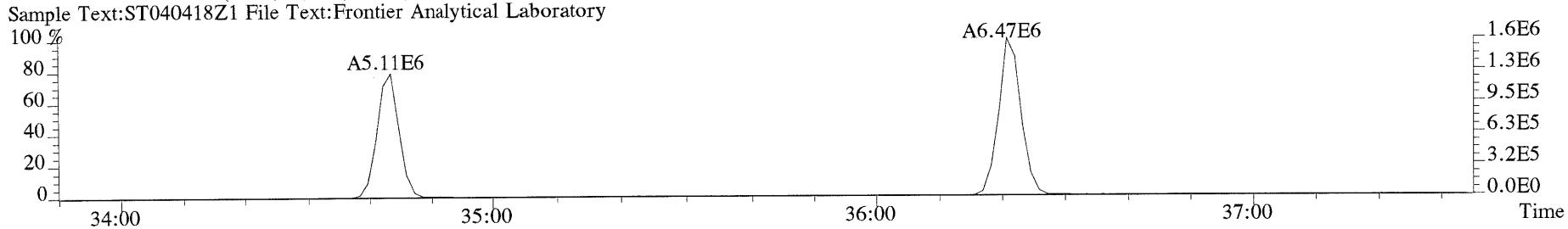
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



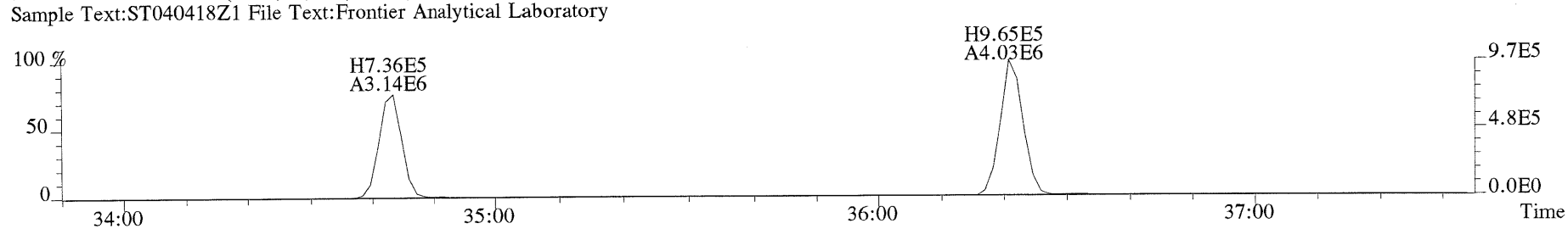
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



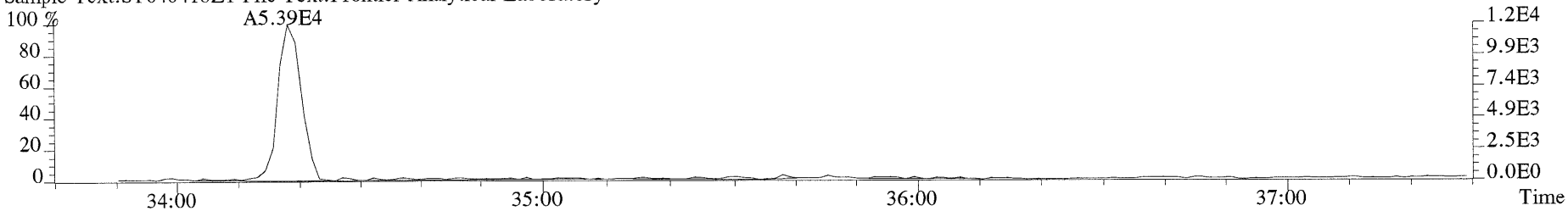
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



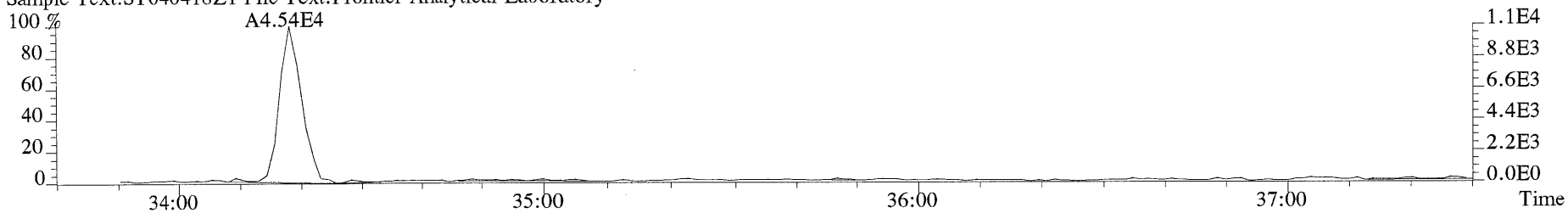
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



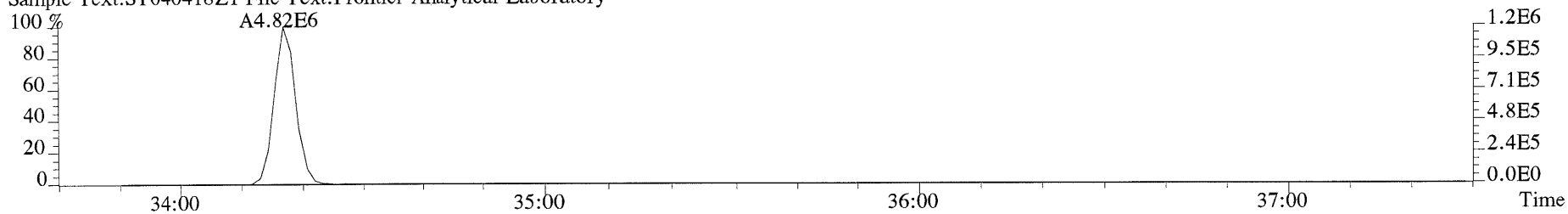
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



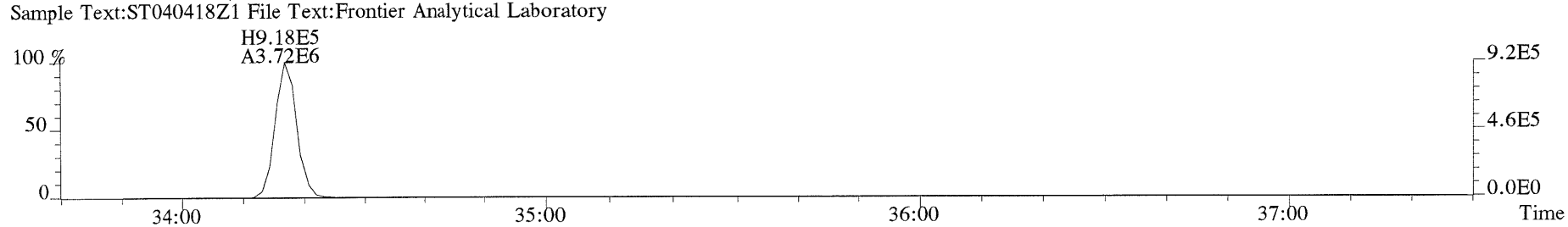
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



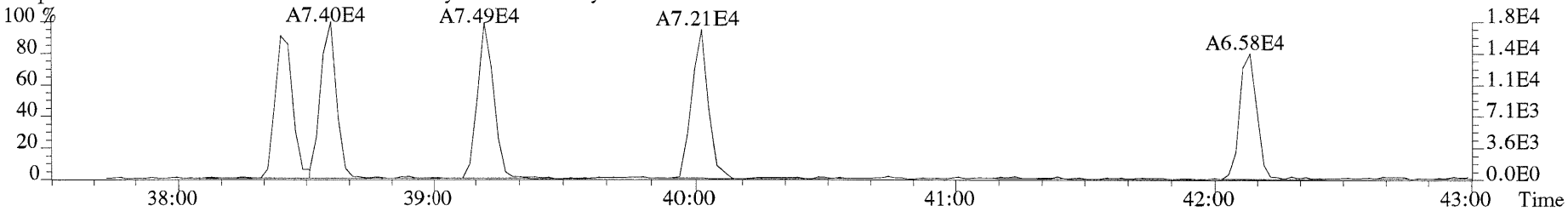
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



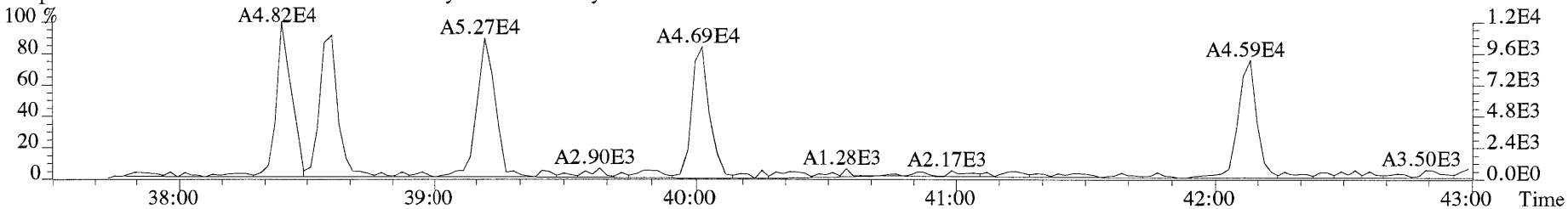
File:04APR18Z #1-183 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



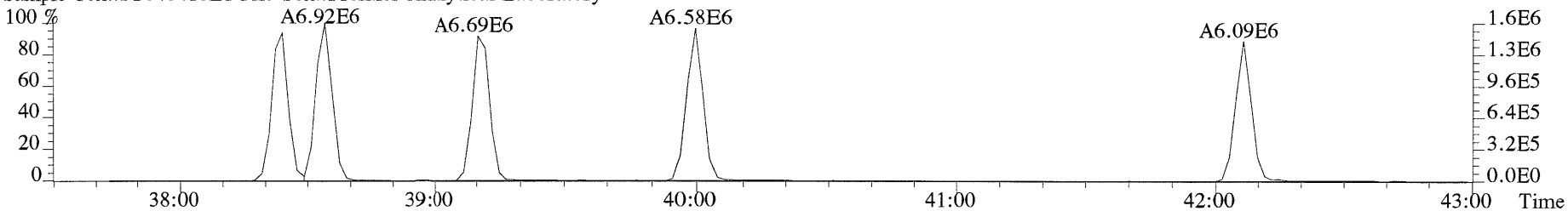
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



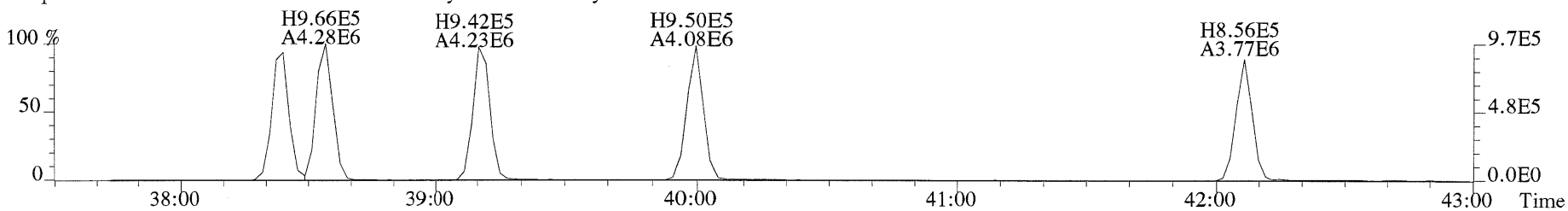
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



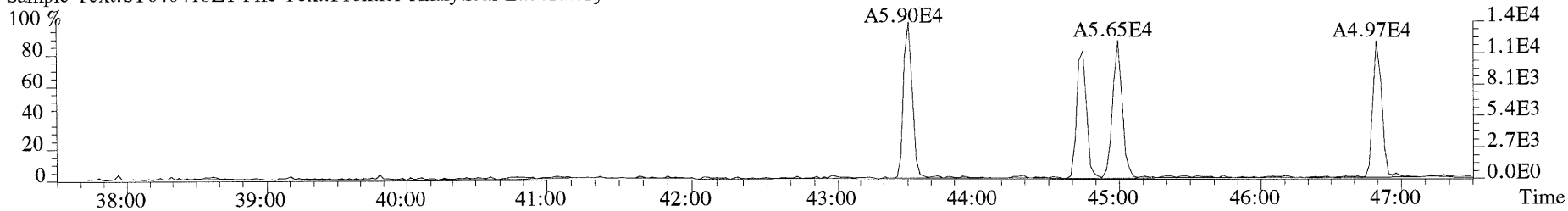
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



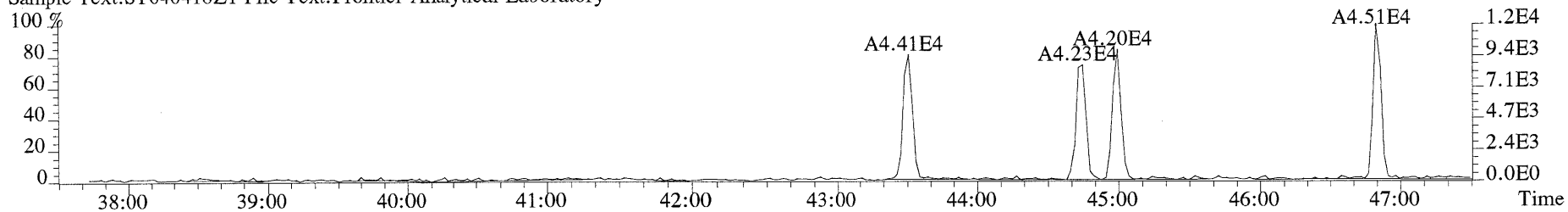
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



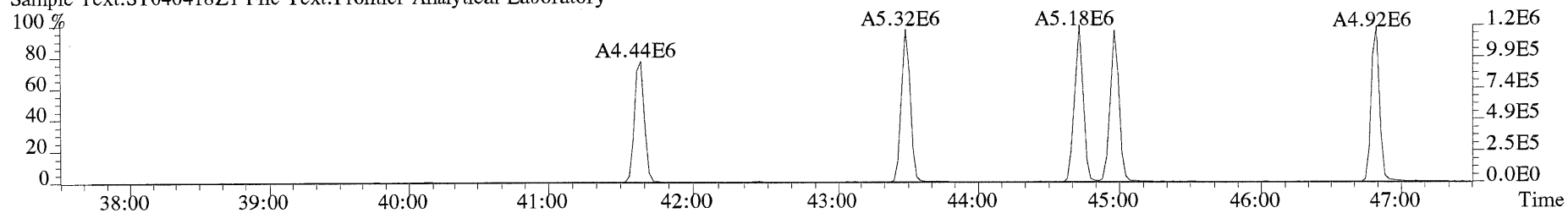
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



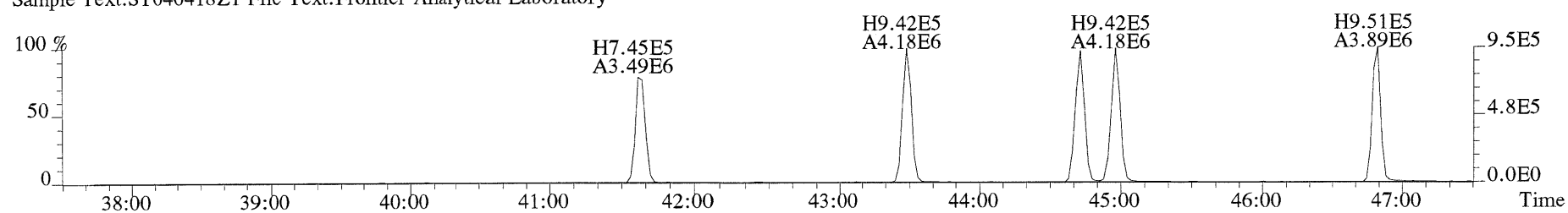
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



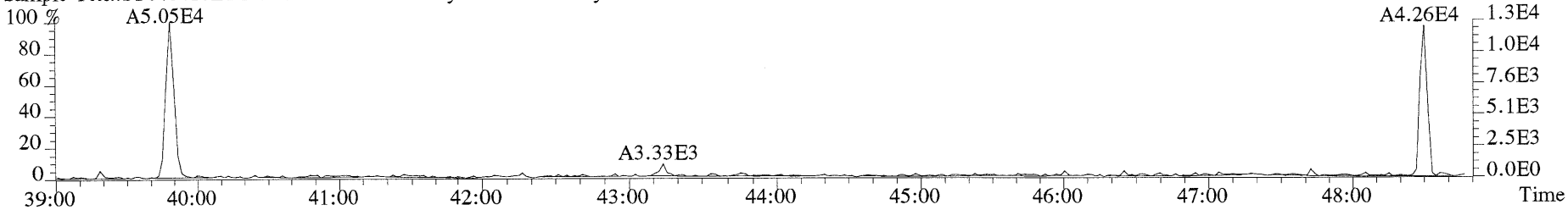
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



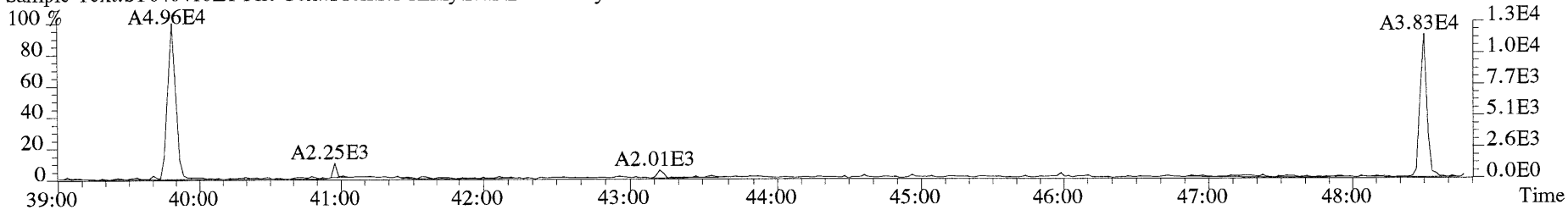
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



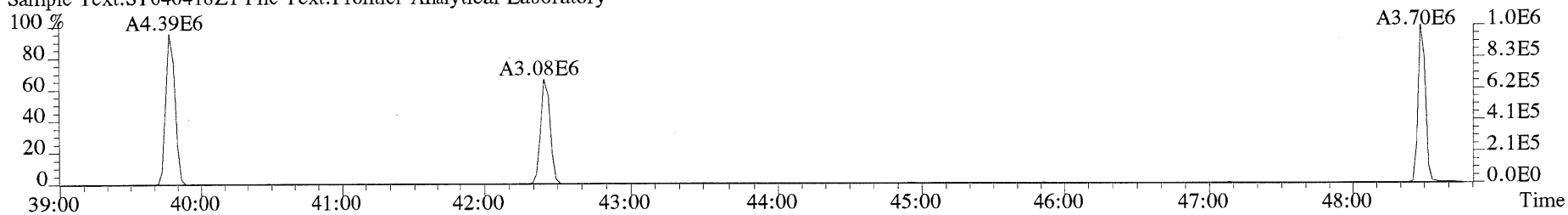
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



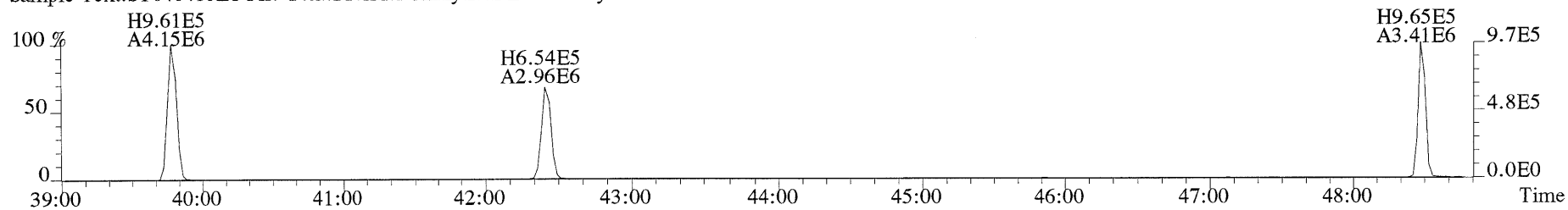
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



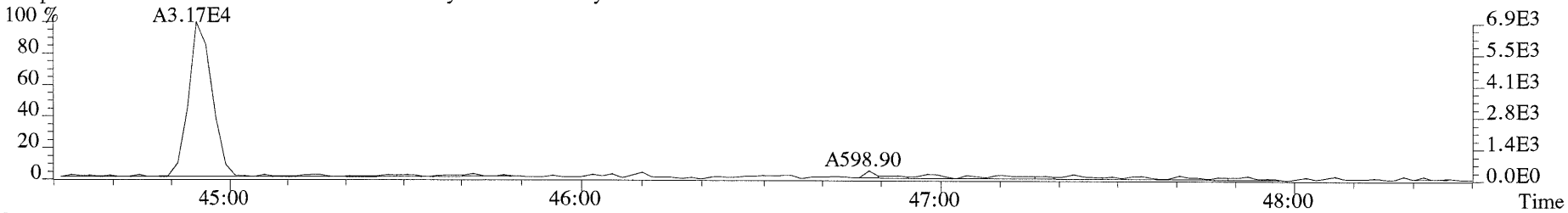
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



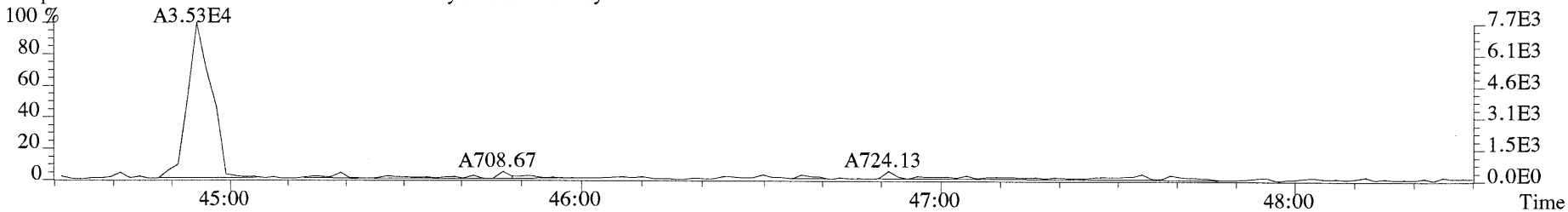
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



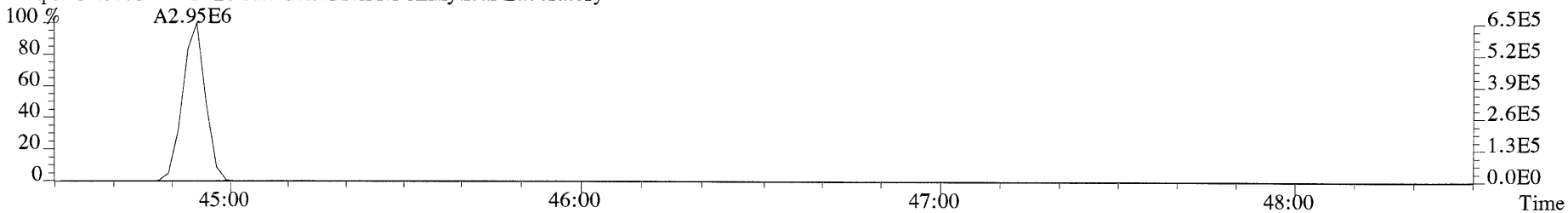
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



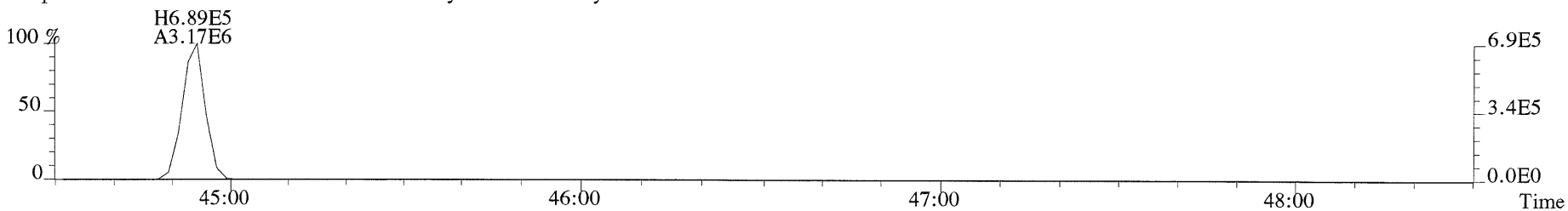
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



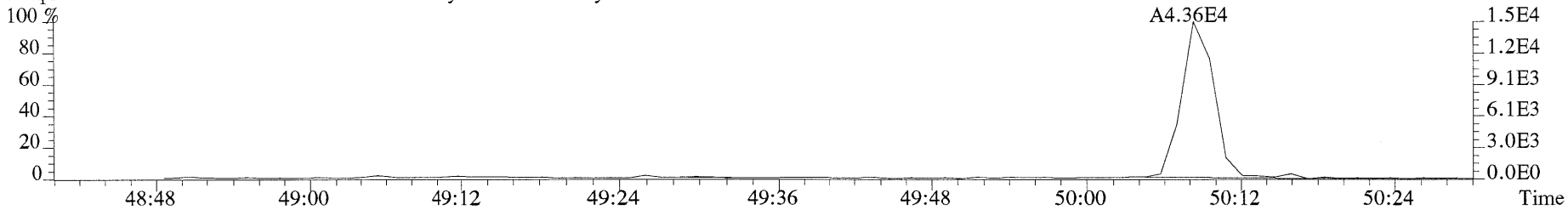
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



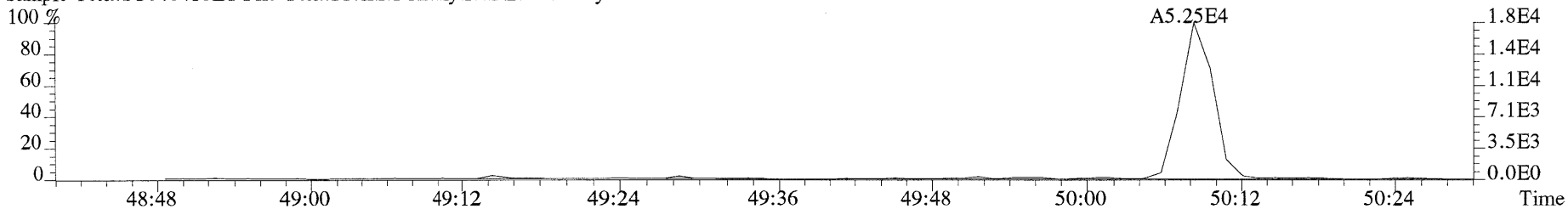
File:04APR18Z #1-404 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



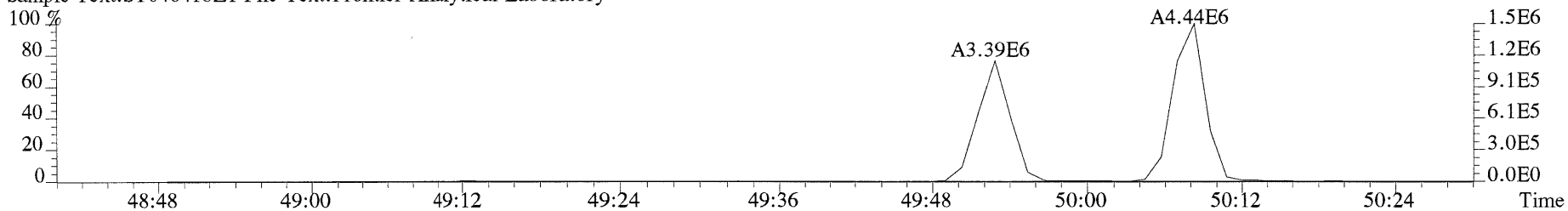
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



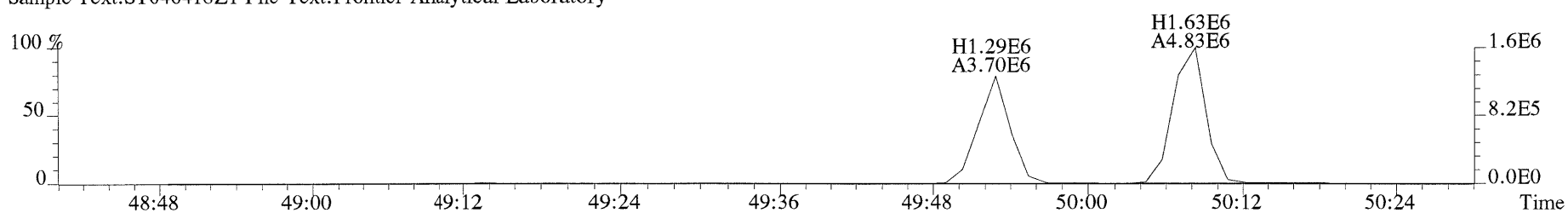
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



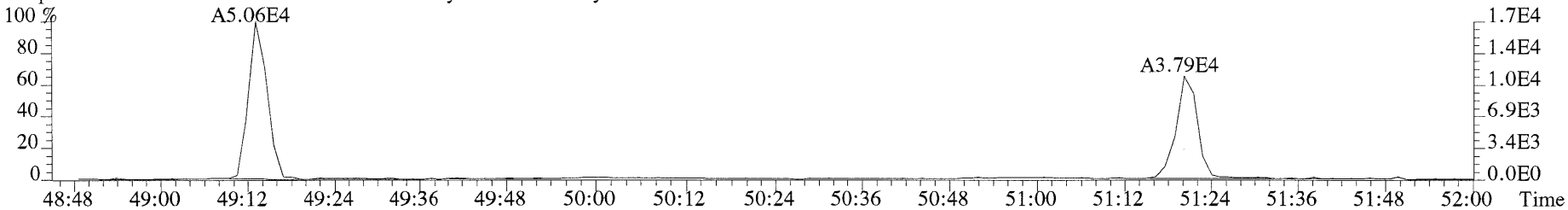
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



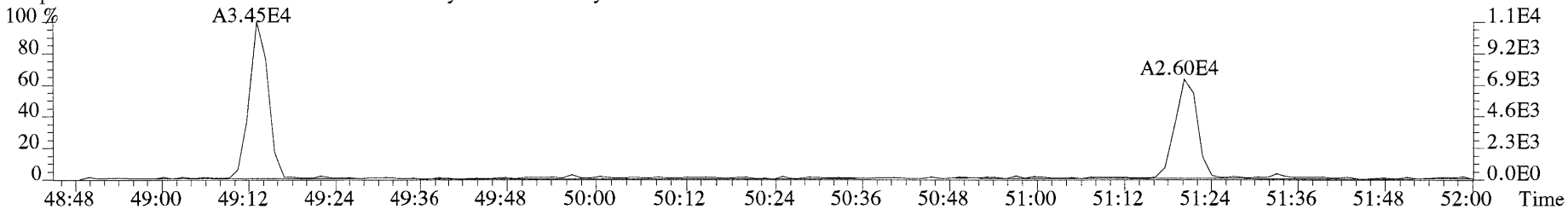
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



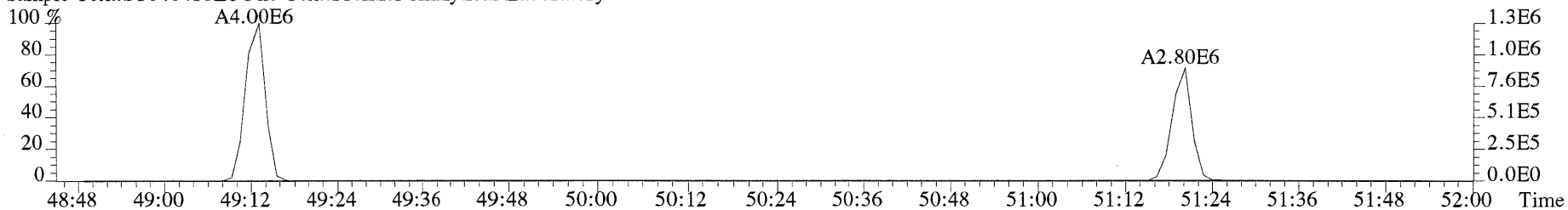
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



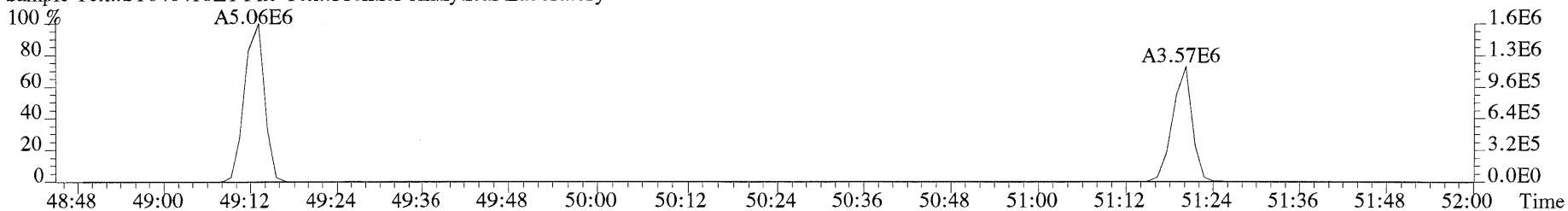
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



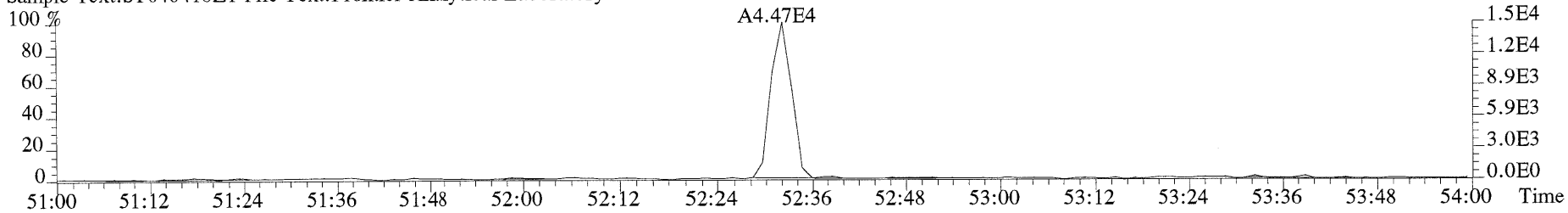
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



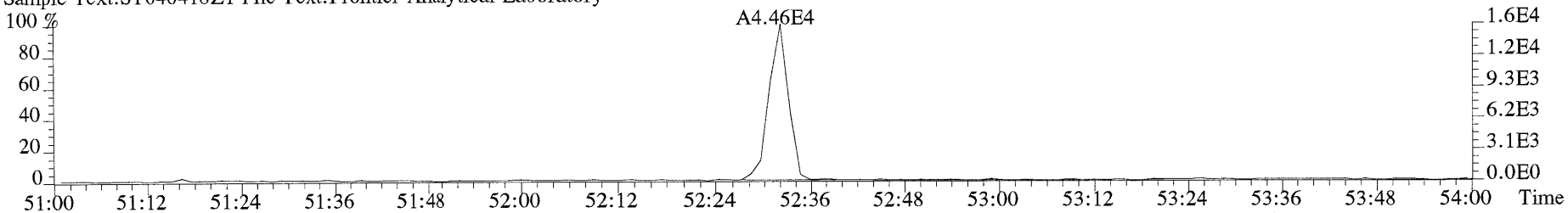
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



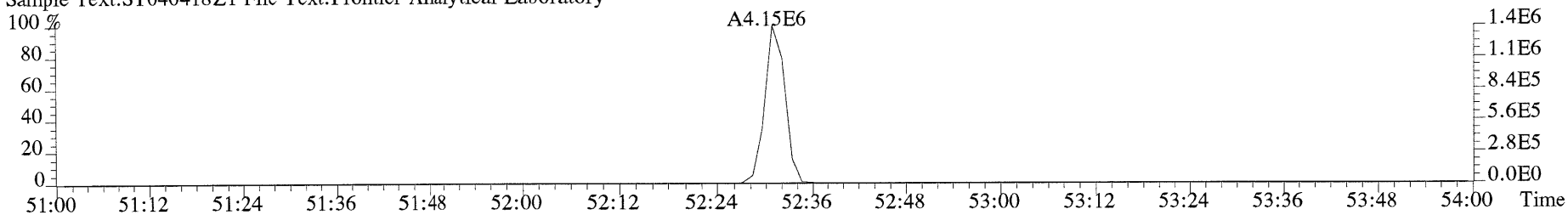
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



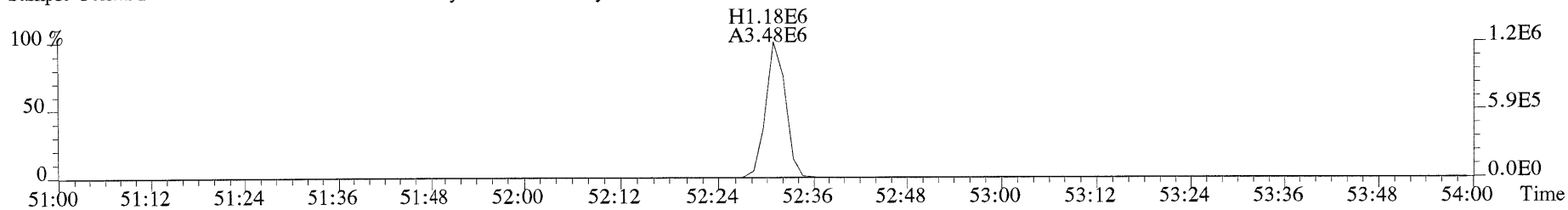
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



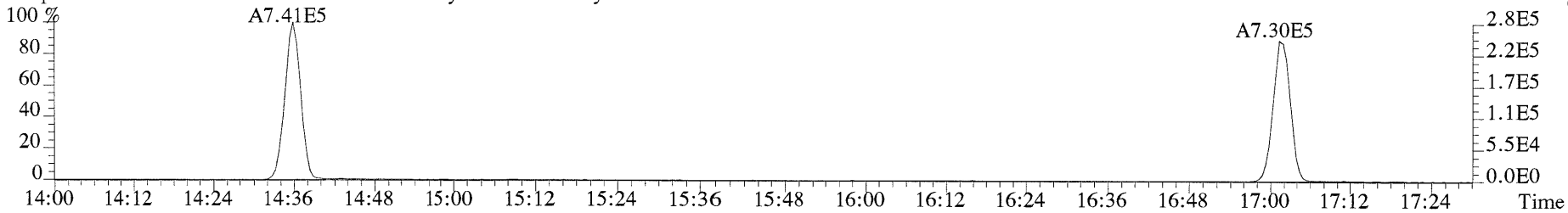
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



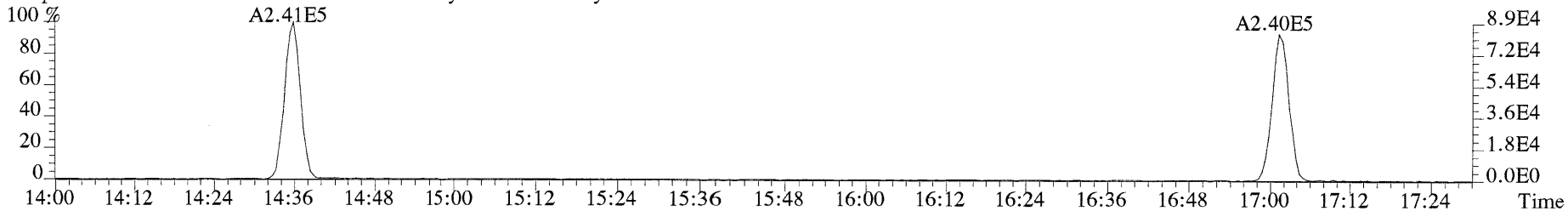
File:04APR18Z #1-314 Acq: 4-APR-2018 17:38:59 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z1 File Text:Frontier Analytical Laboratory



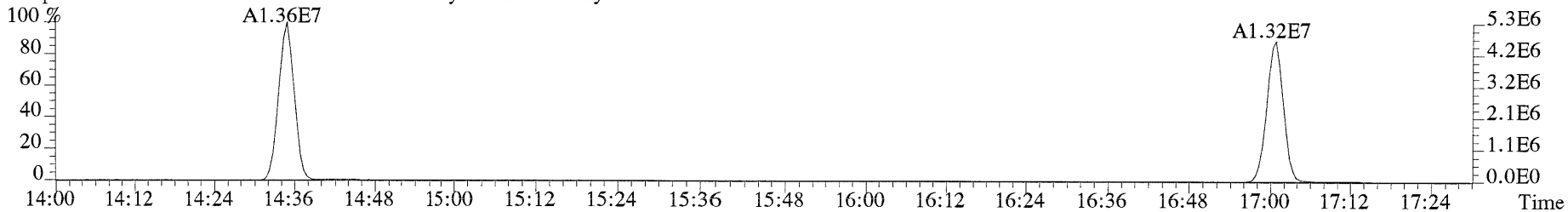
File:04APR18Z #1-783 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



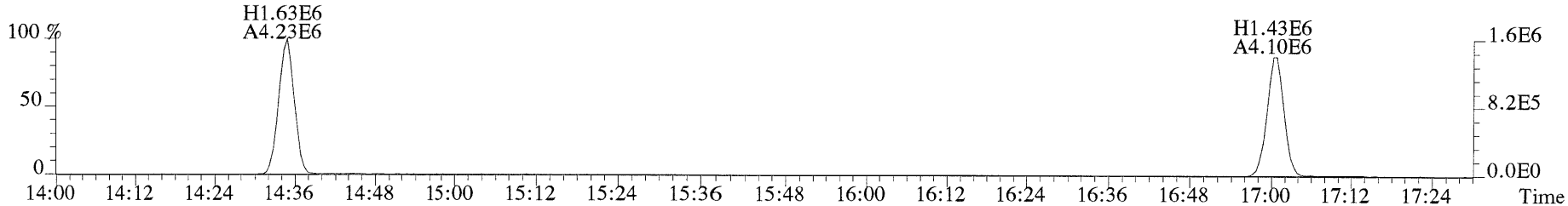
File:04APR18Z #1-783 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



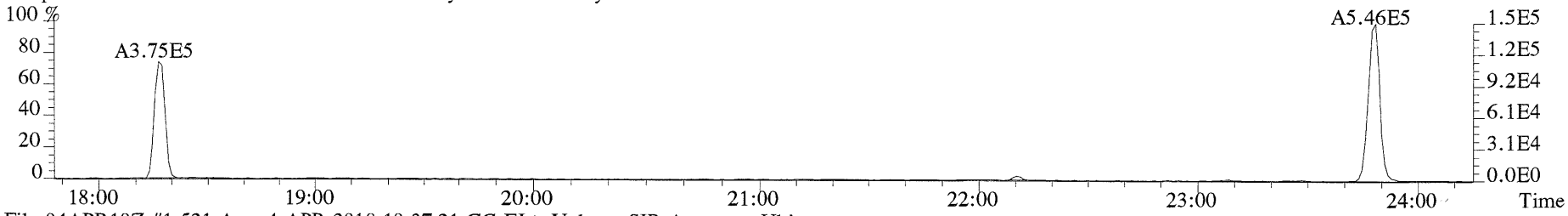
File:04APR18Z #1-783 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



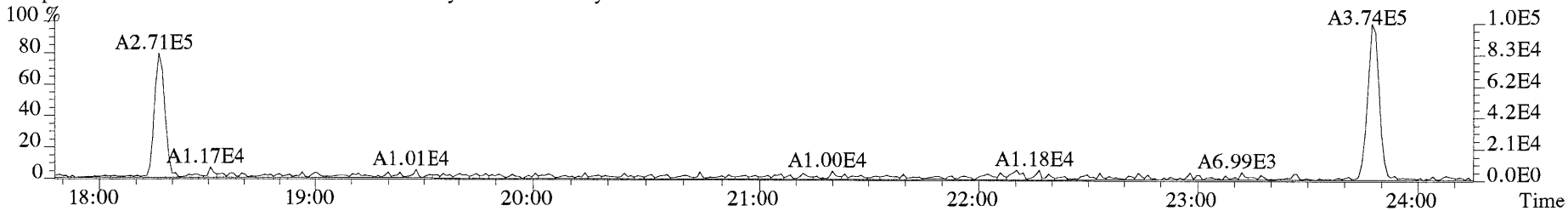
File:04APR18Z #1-783 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



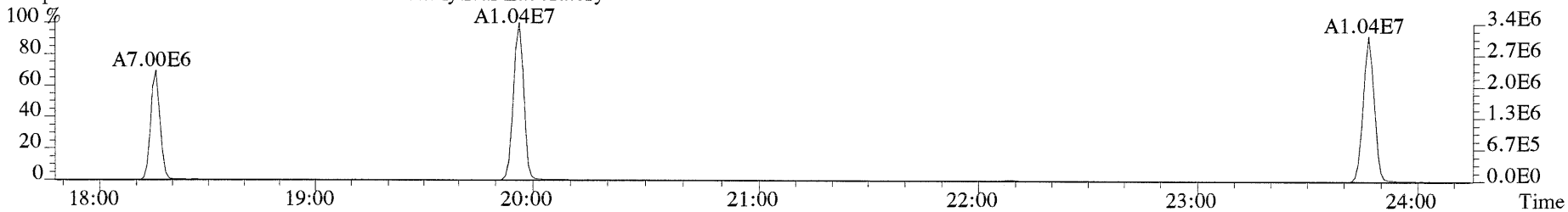
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



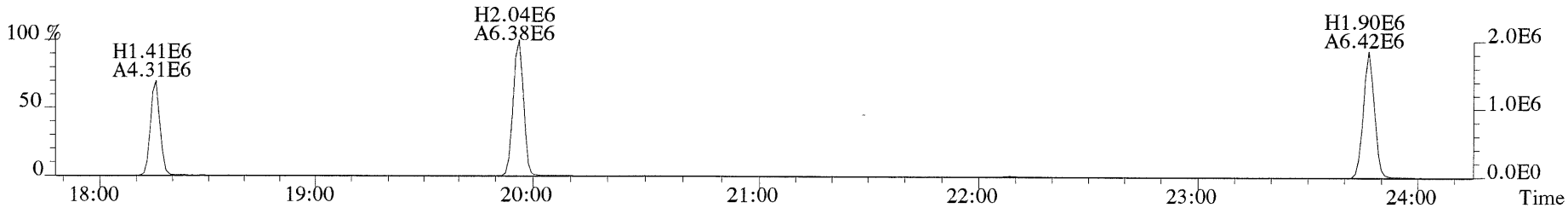
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



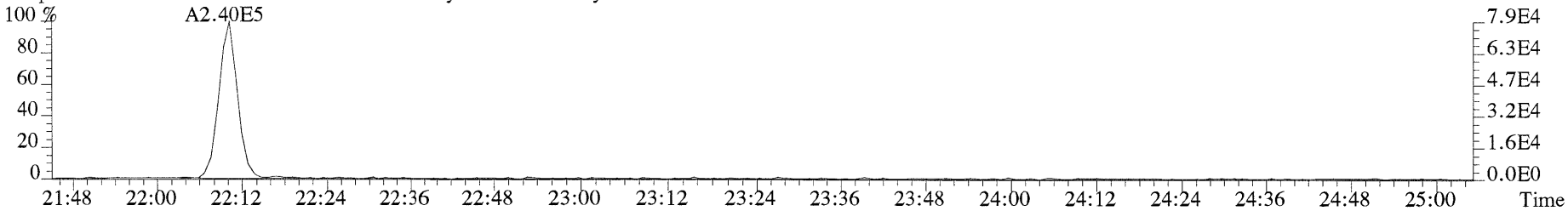
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



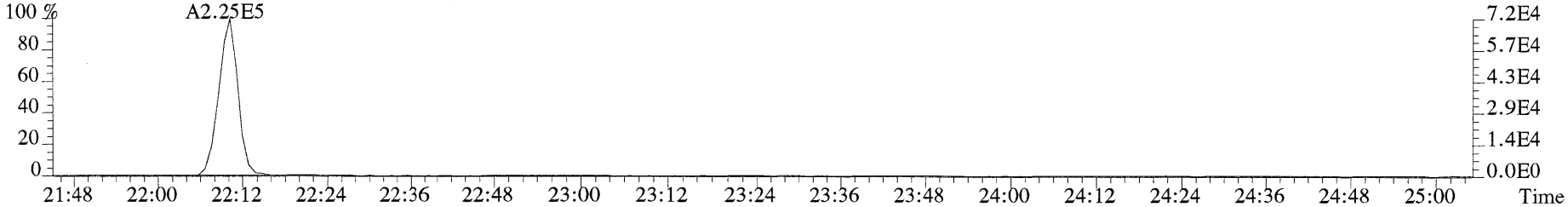
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



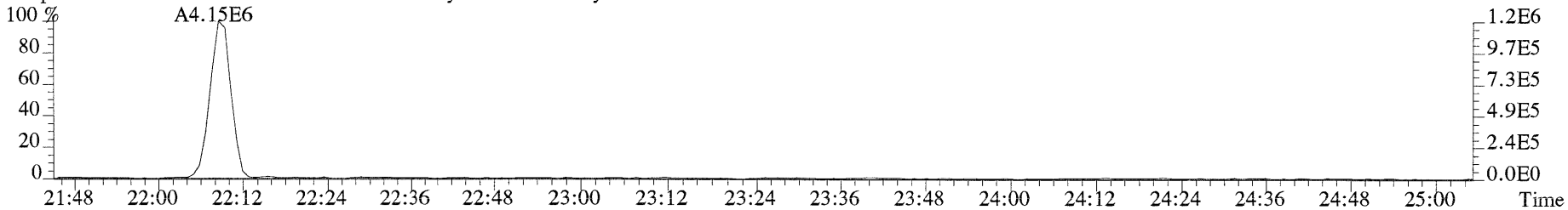
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



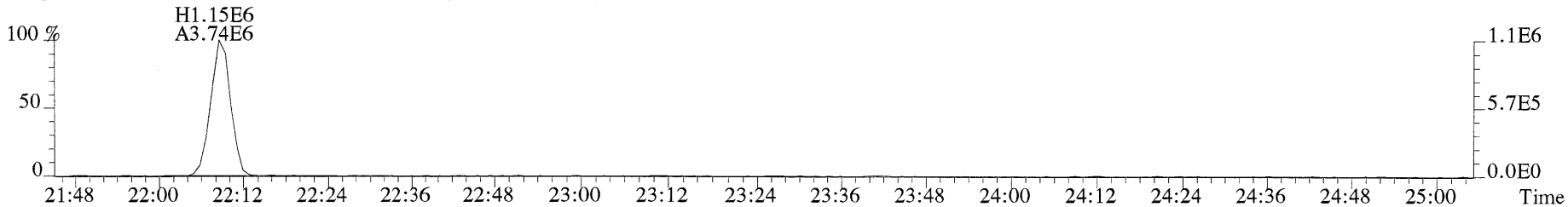
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



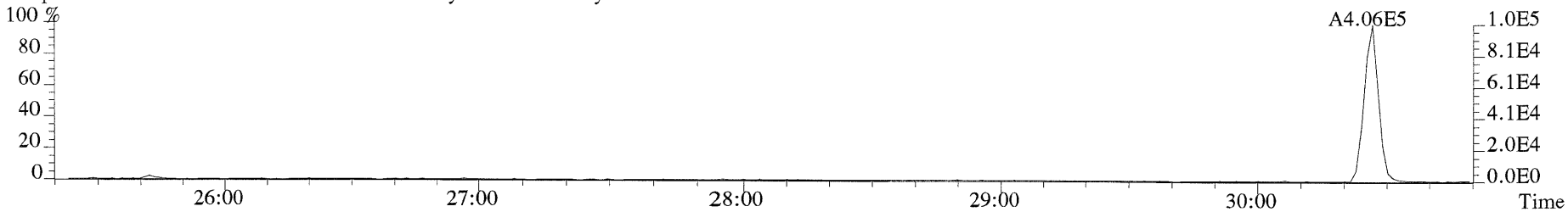
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



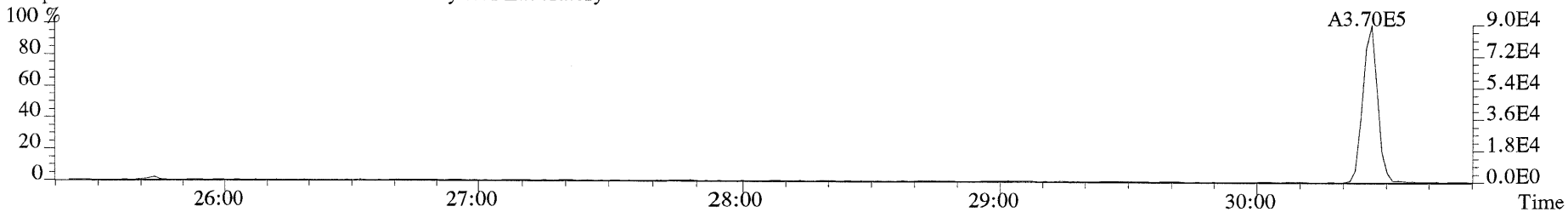
File:04APR18Z #1-521 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



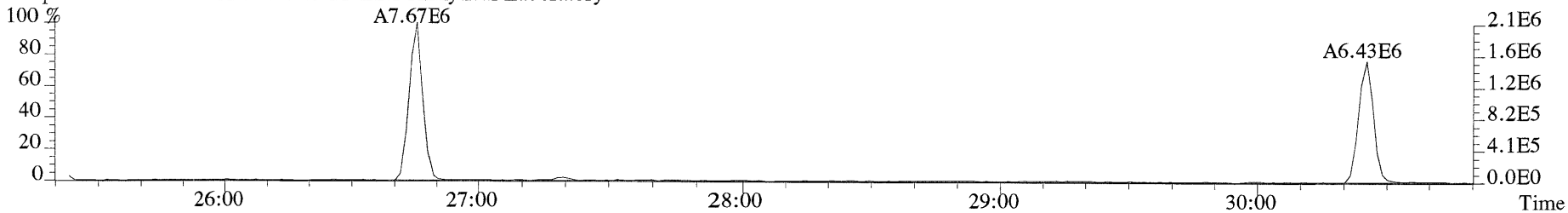
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



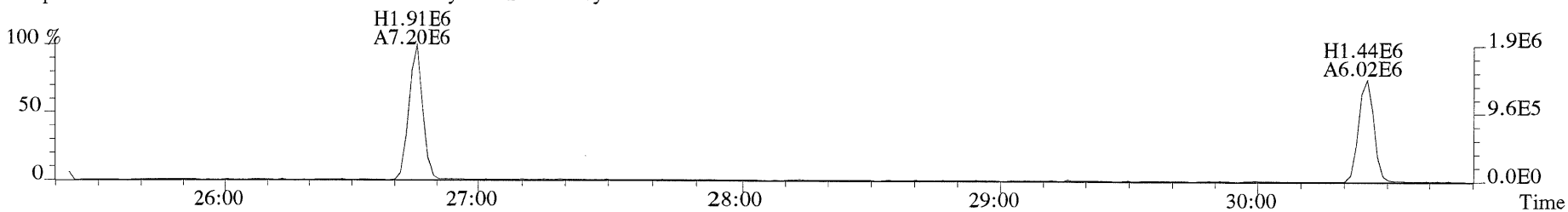
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



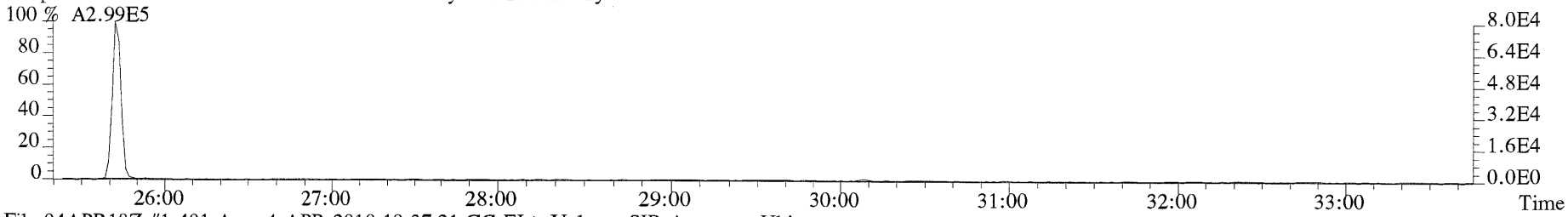
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



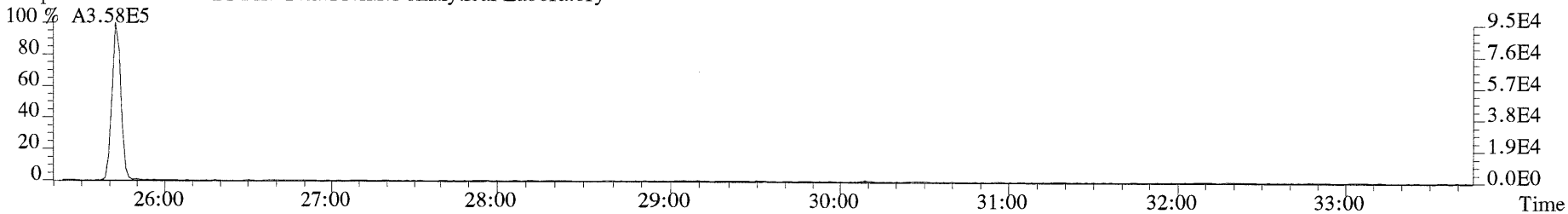
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



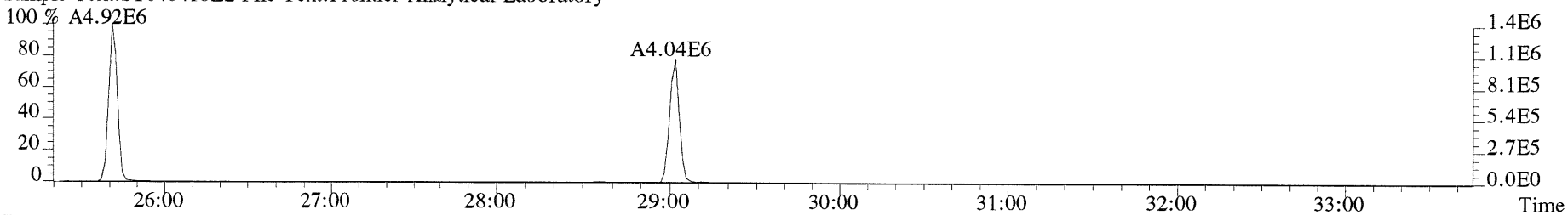
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



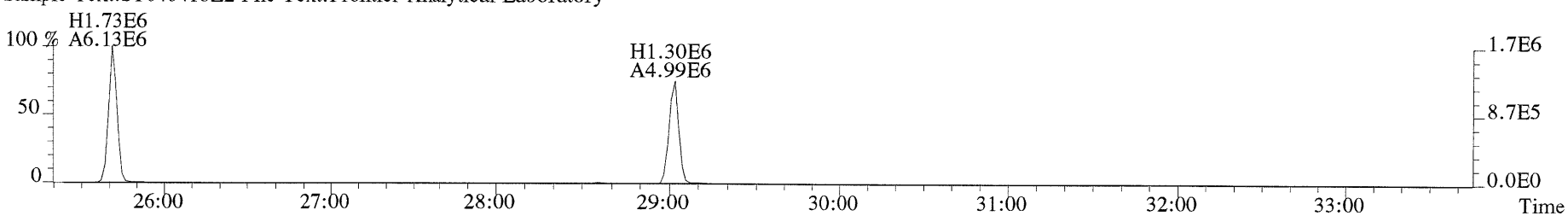
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



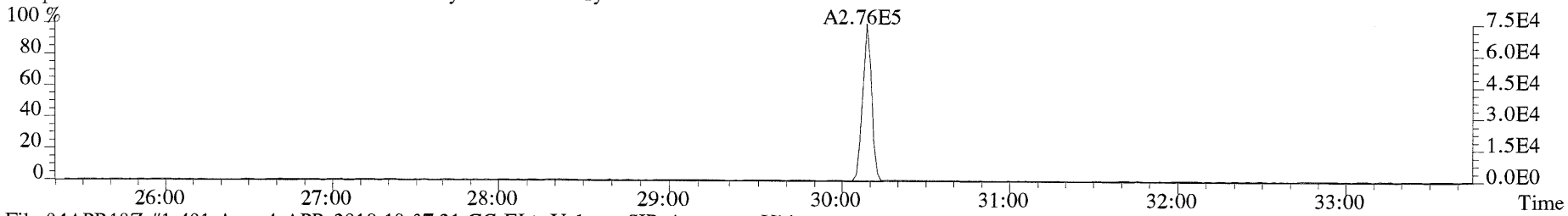
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



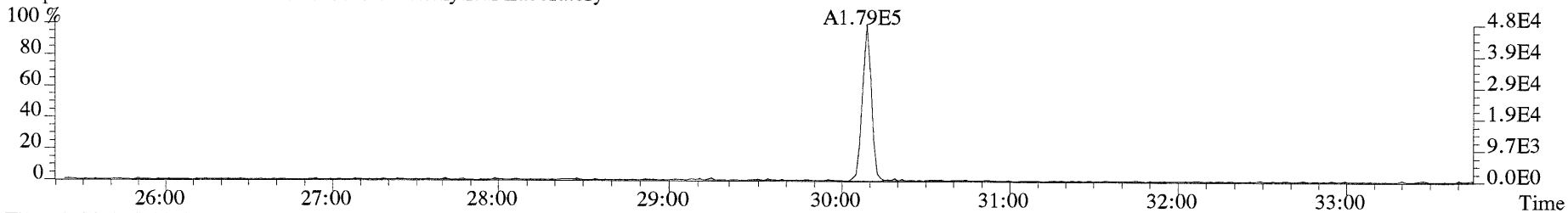
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



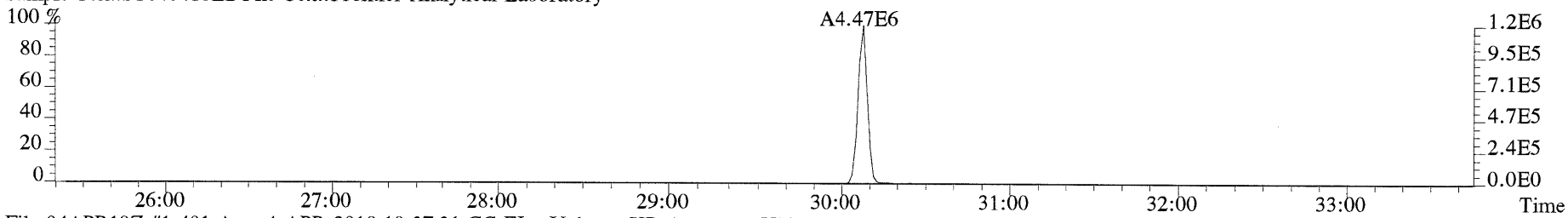
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



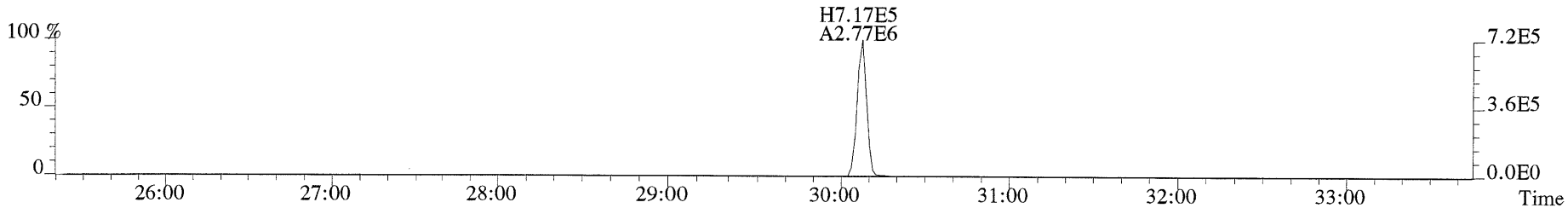
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



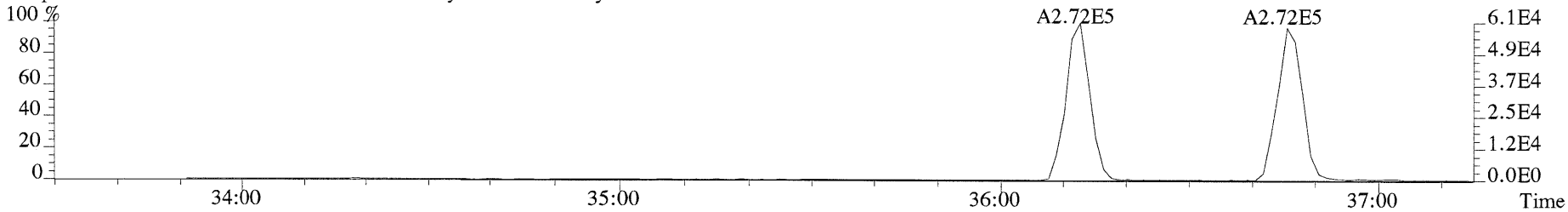
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



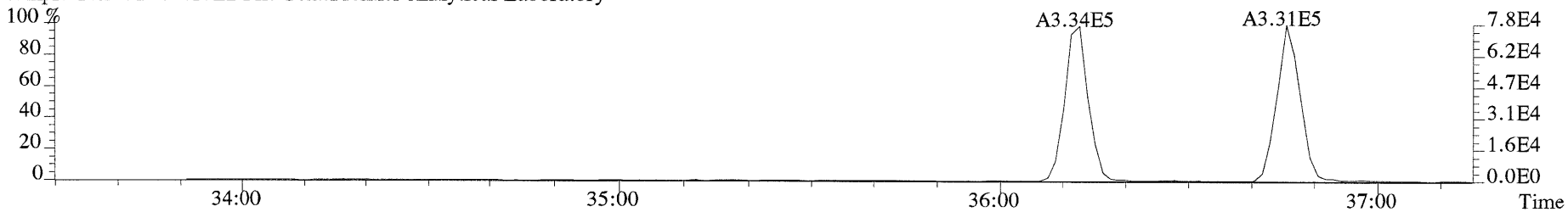
File:04APR18Z #1-401 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



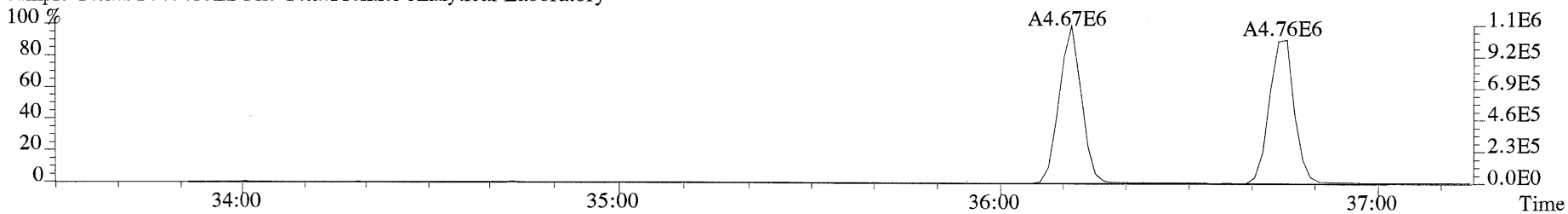
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



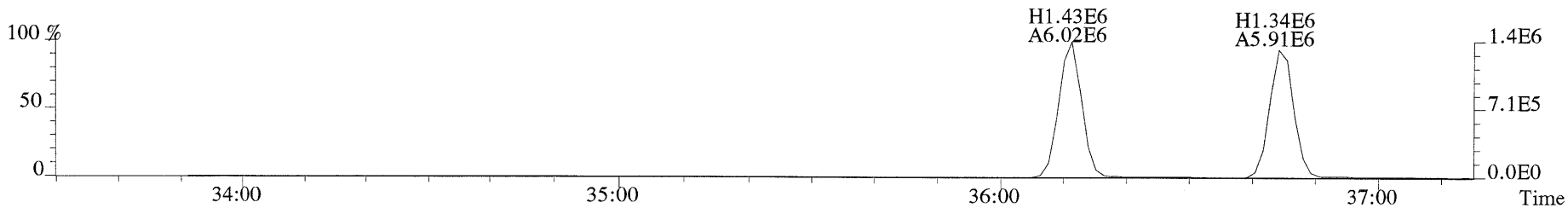
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



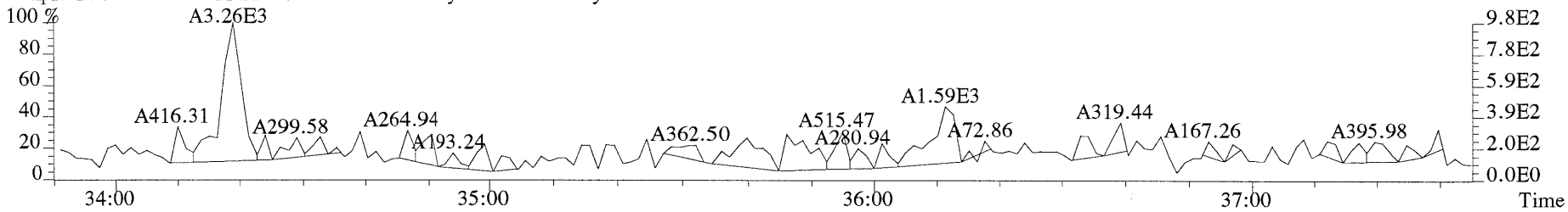
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



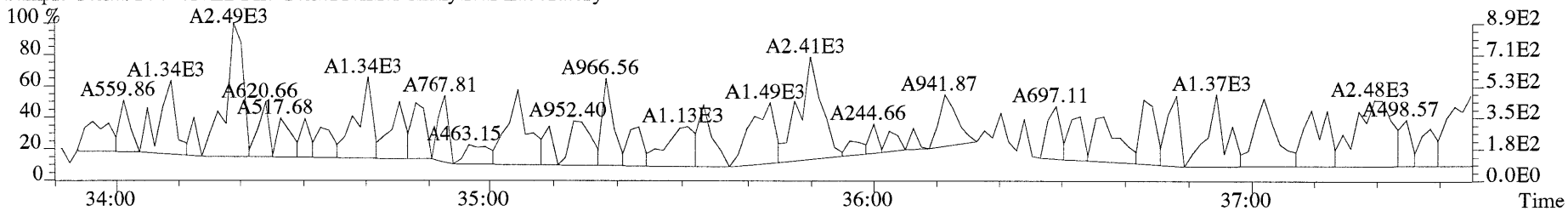
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



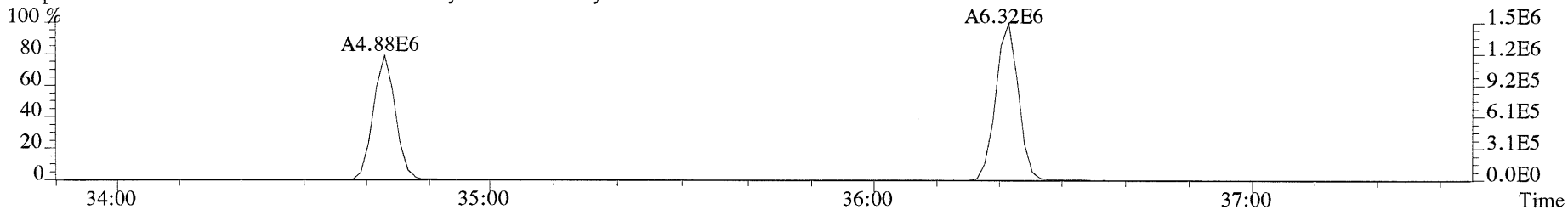
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



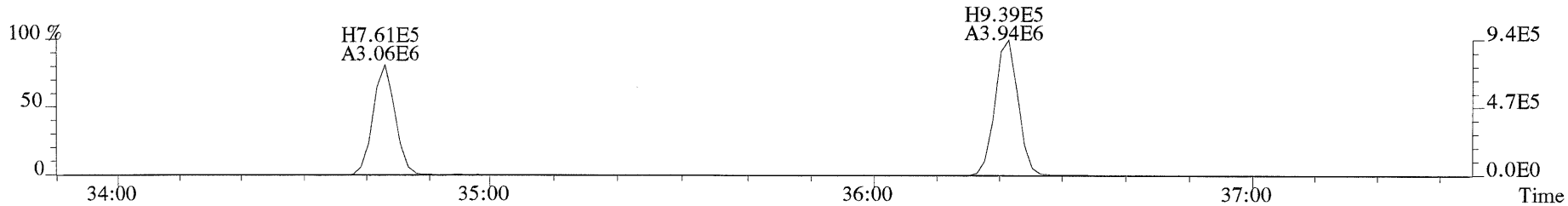
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



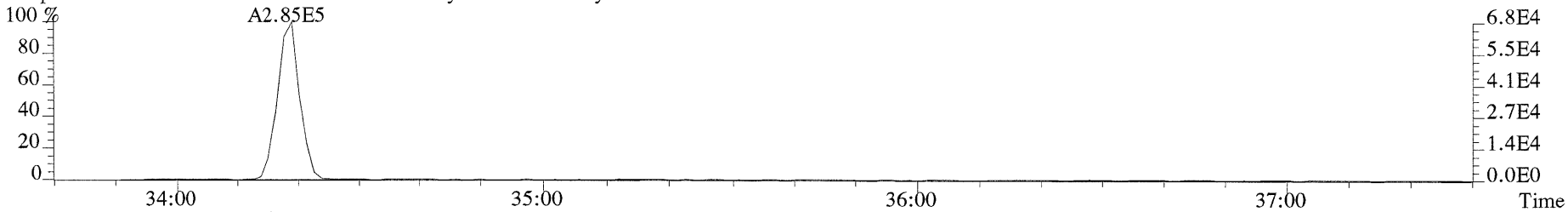
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



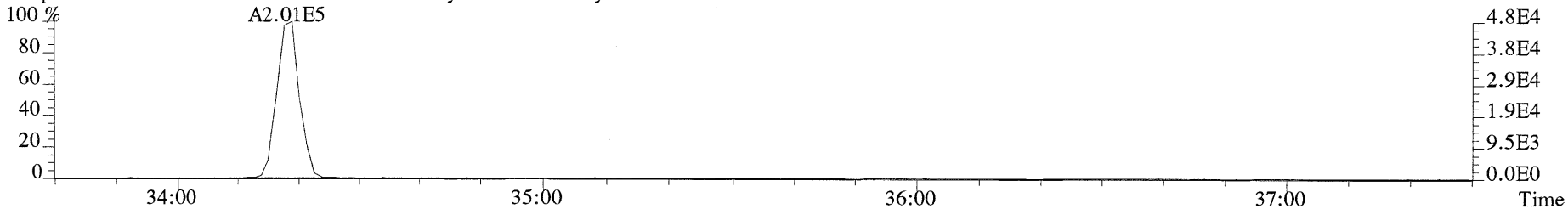
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



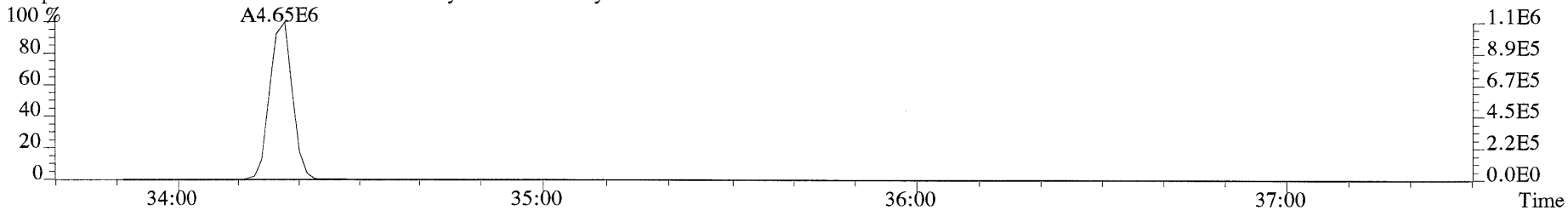
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



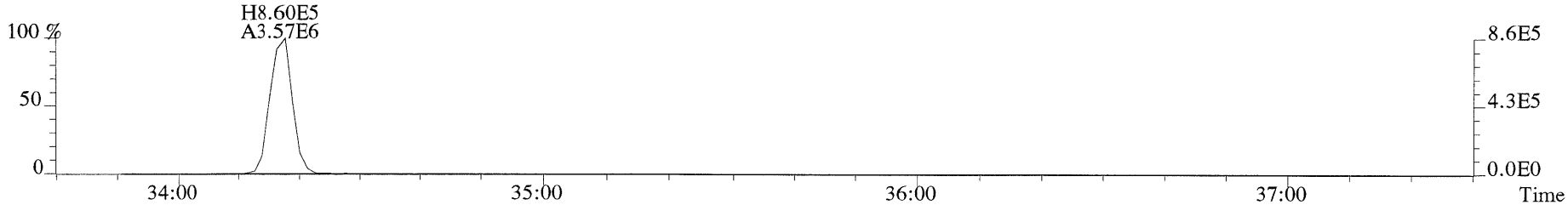
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



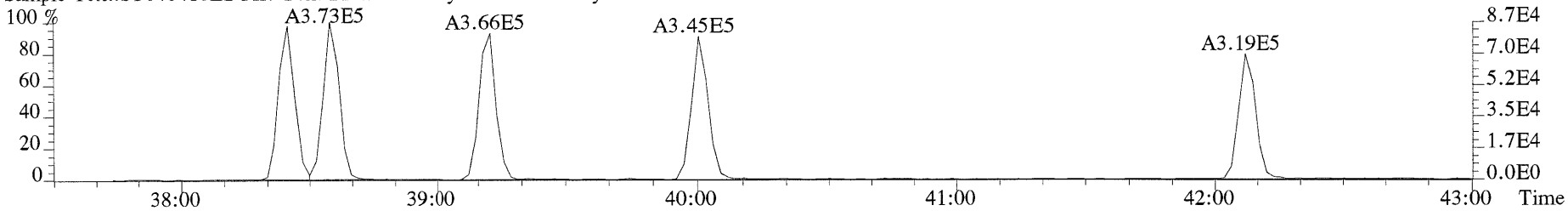
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



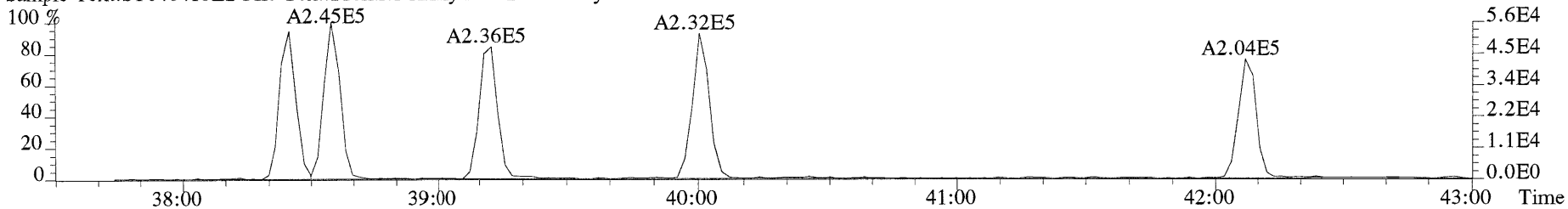
File:04APR18Z #1-183 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



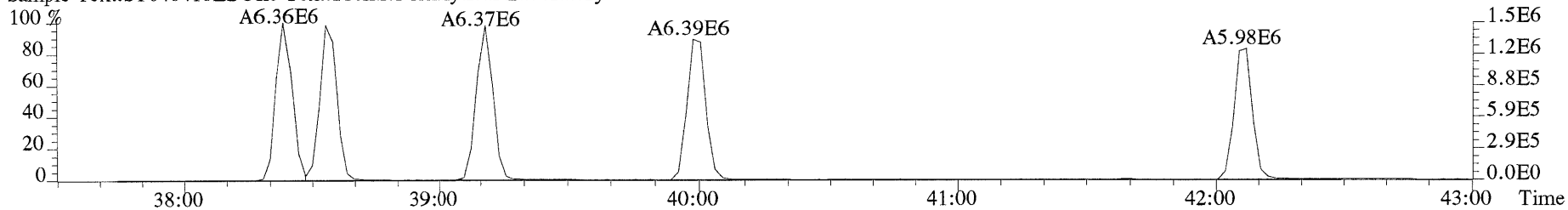
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



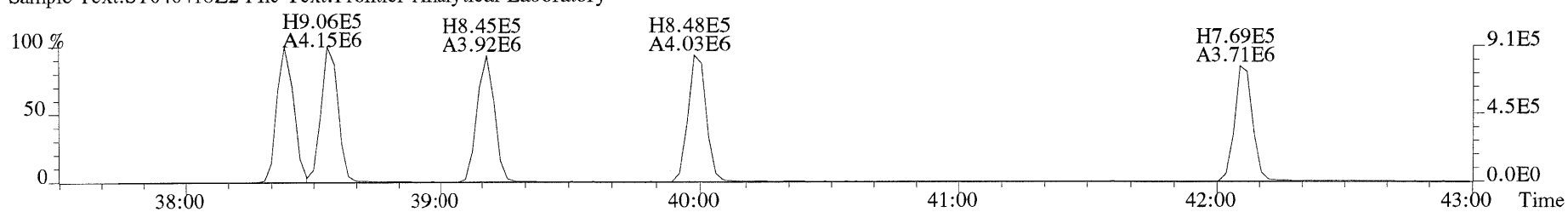
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



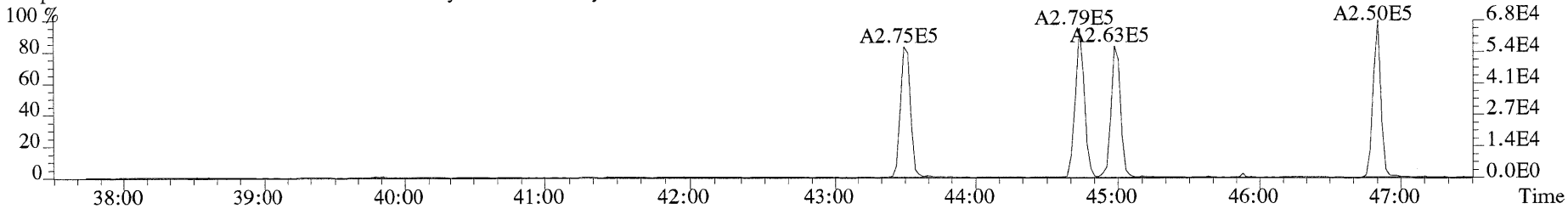
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



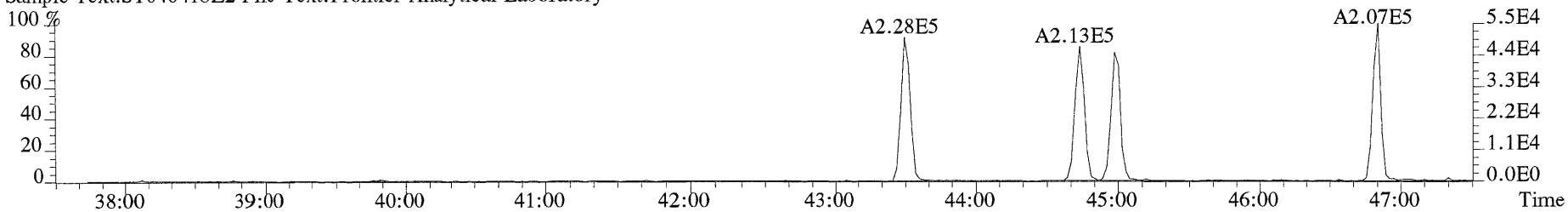
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



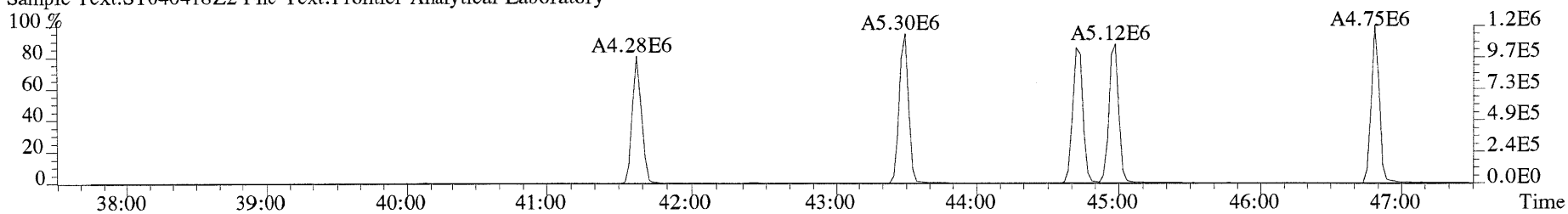
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



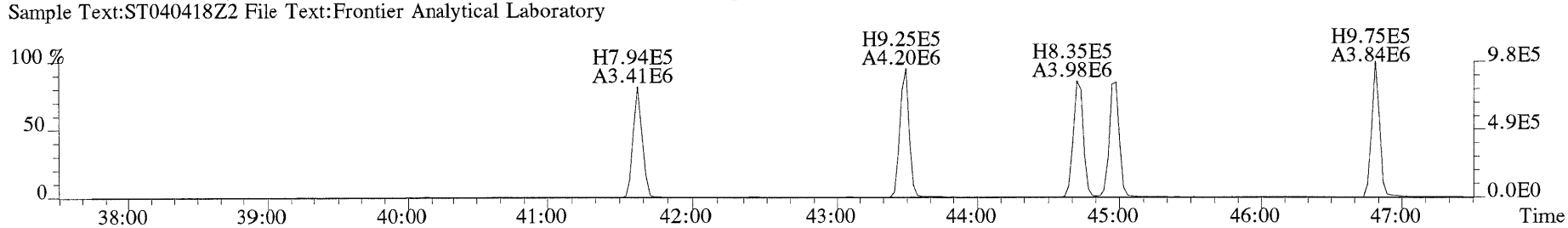
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



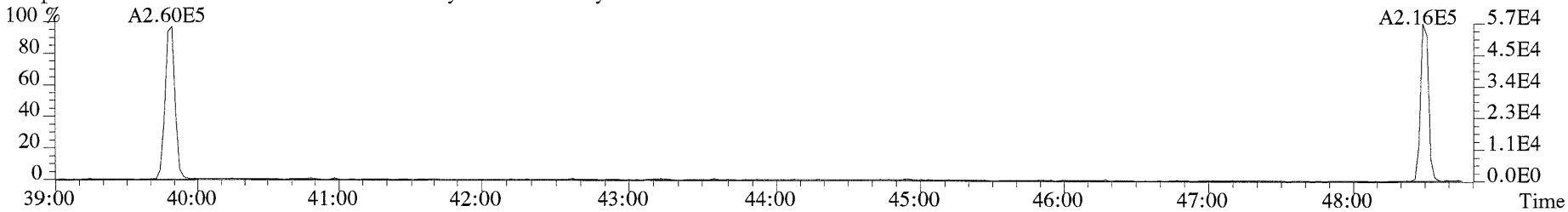
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



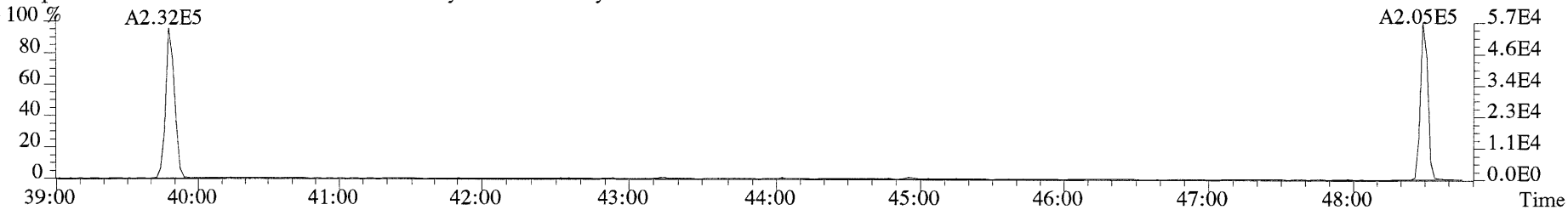
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



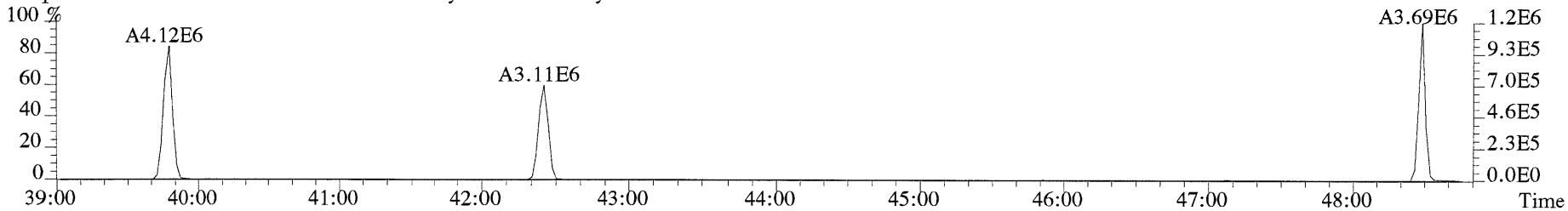
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



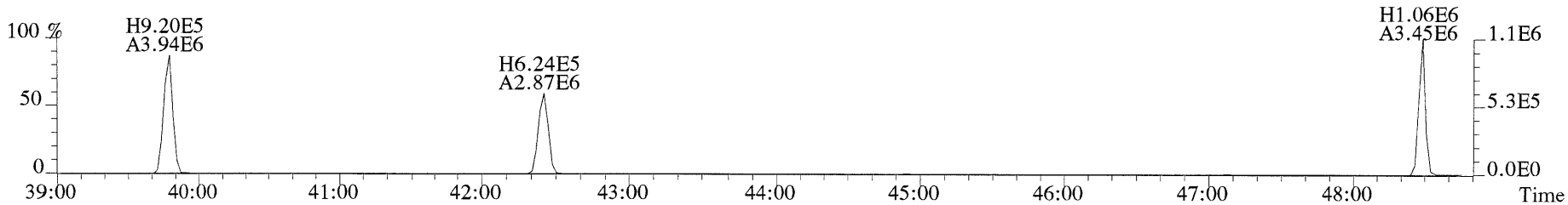
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



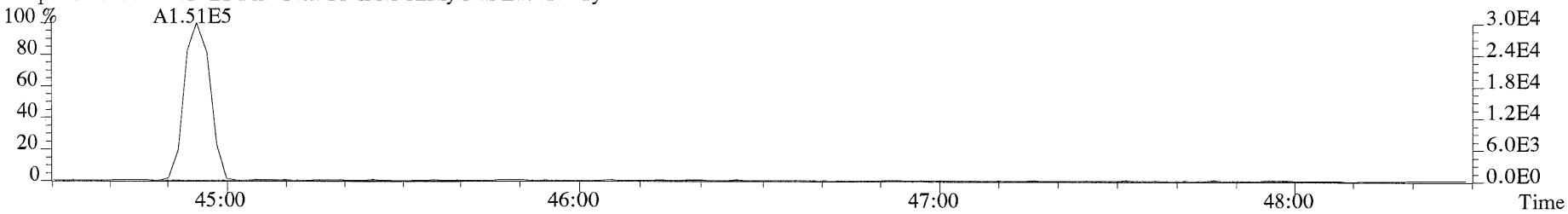
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



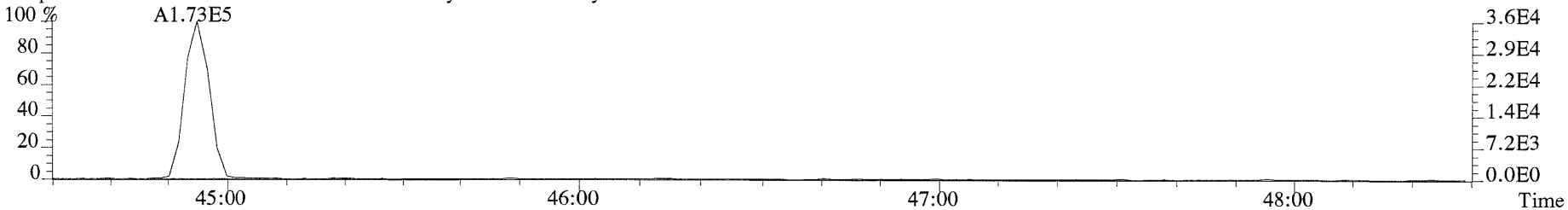
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



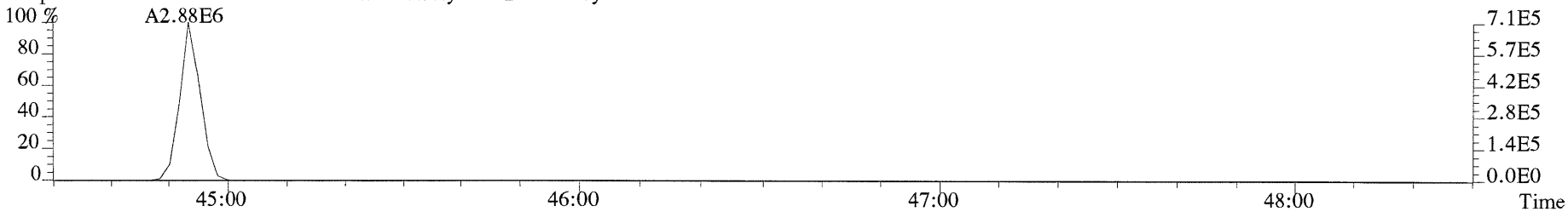
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



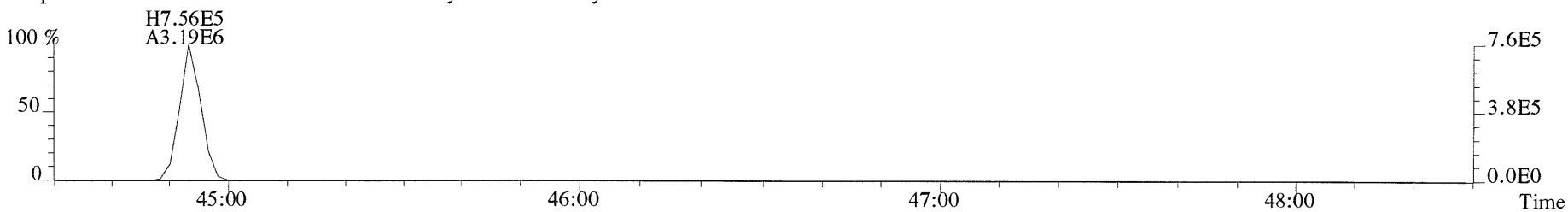
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



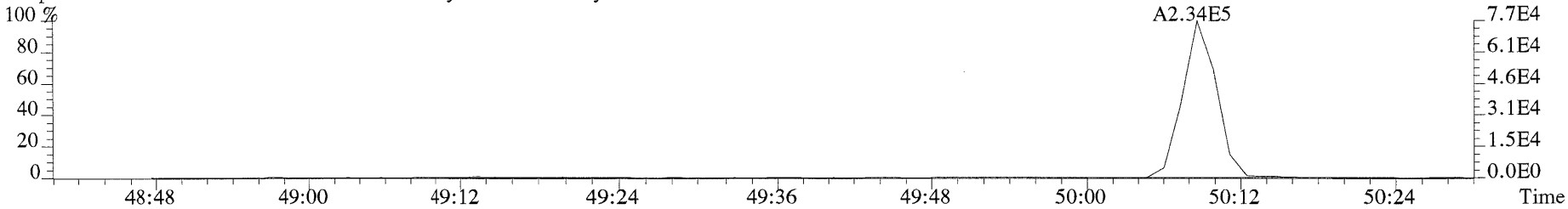
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



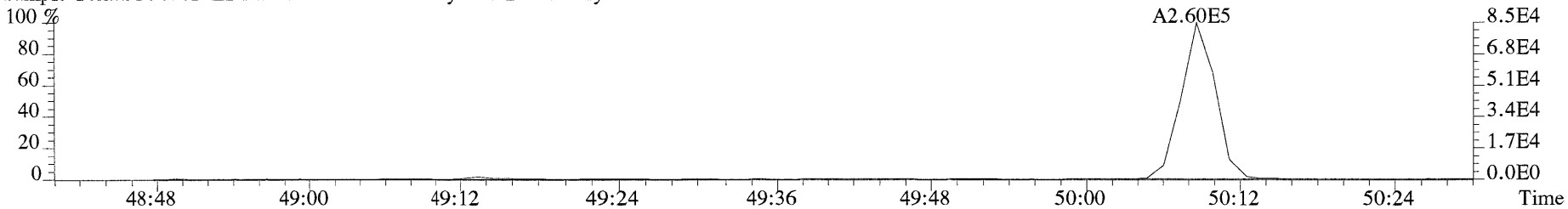
File:04APR18Z #1-403 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



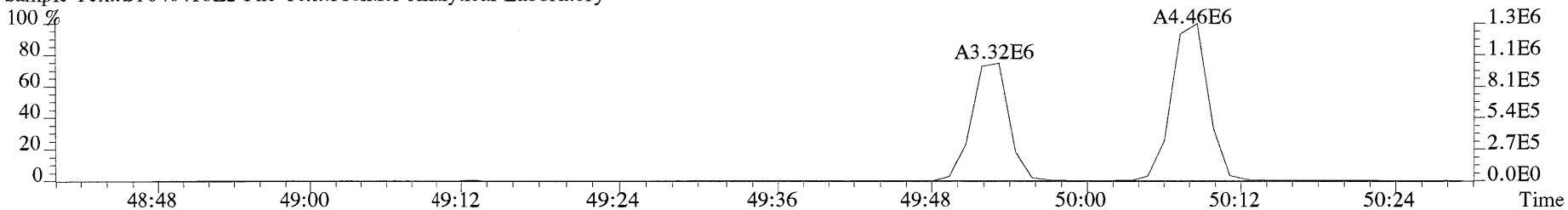
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



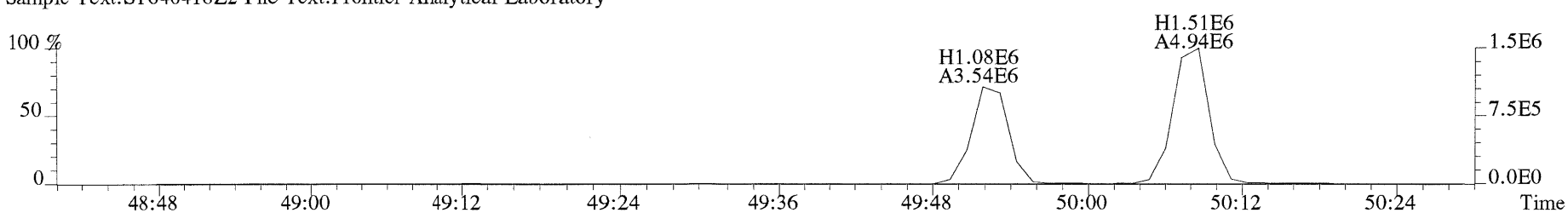
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



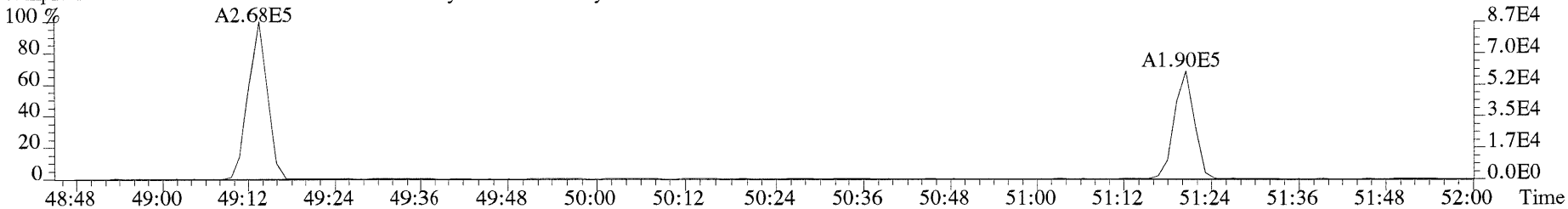
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



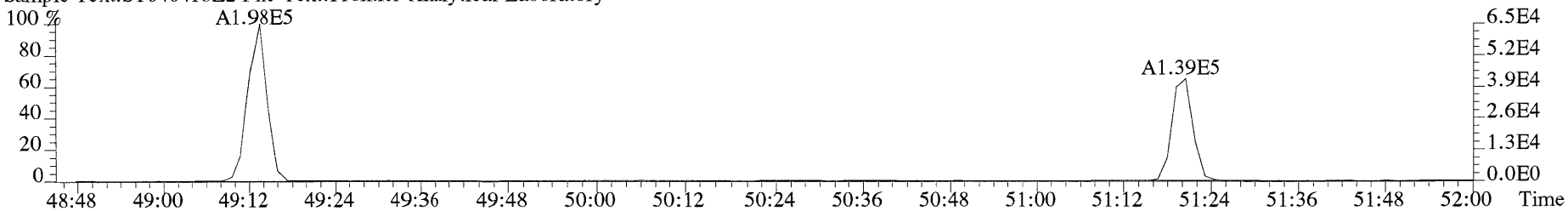
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



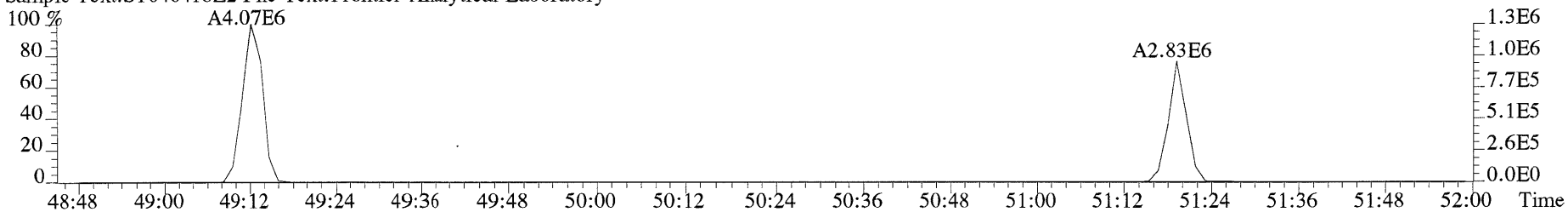
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



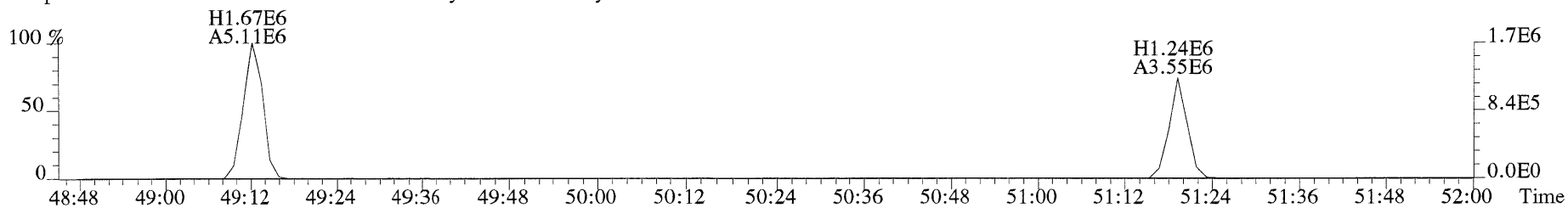
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



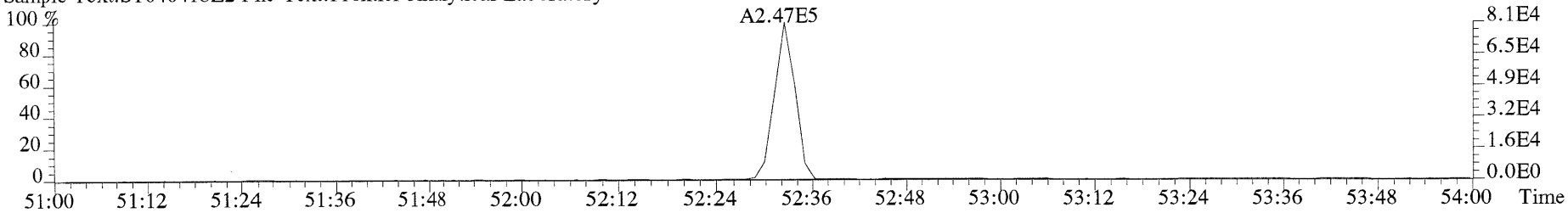
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



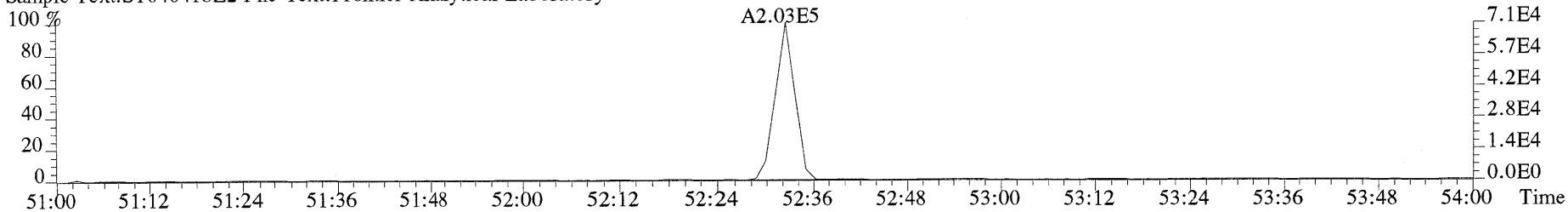
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



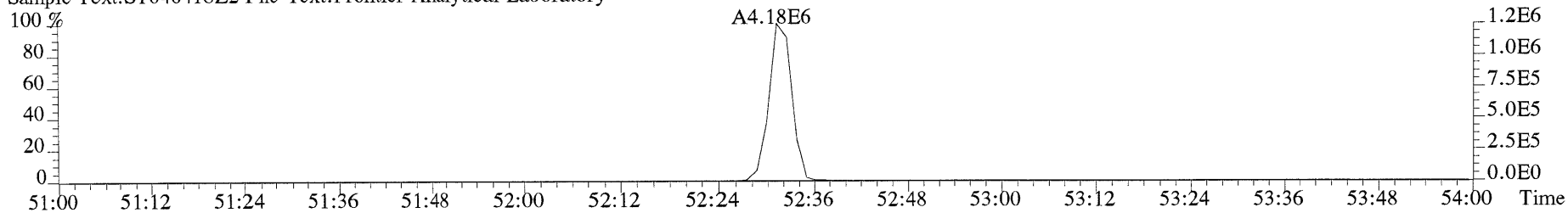
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



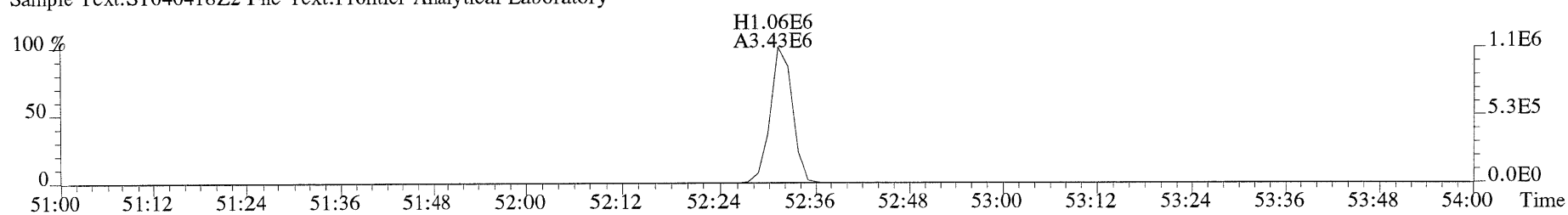
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



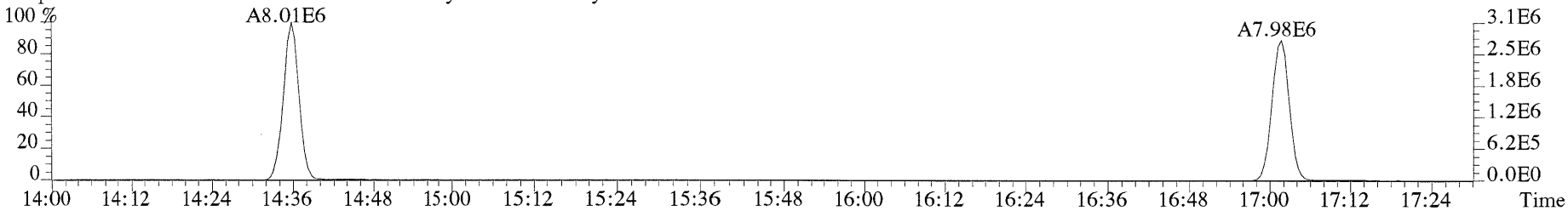
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



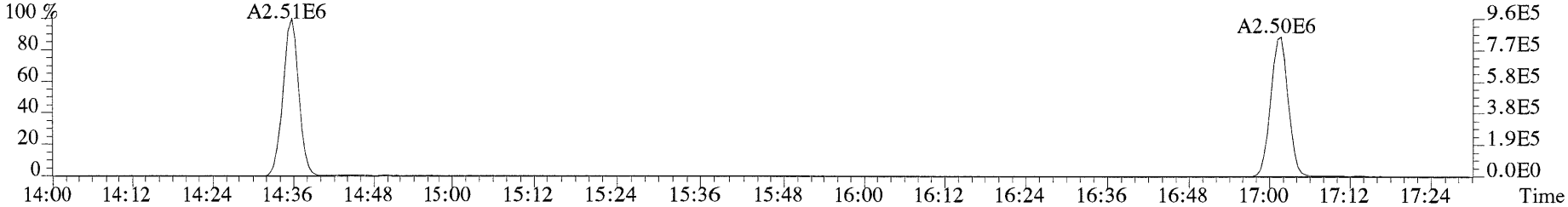
File:04APR18Z #1-315 Acq: 4-APR-2018 18:37:21 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z2 File Text:Frontier Analytical Laboratory



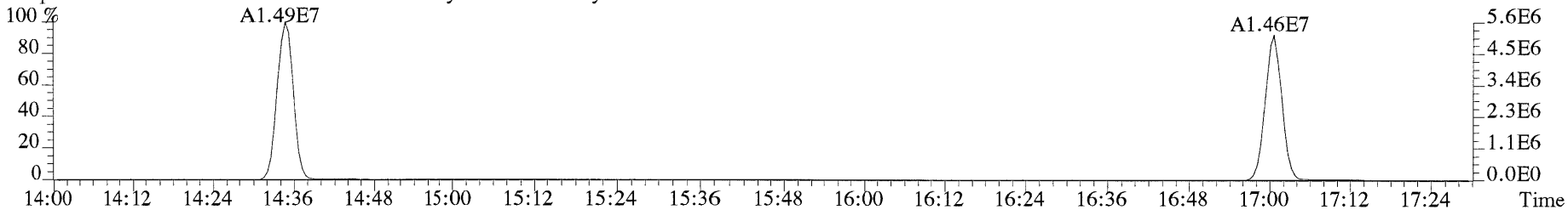
File:04APR18Z #1-784 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



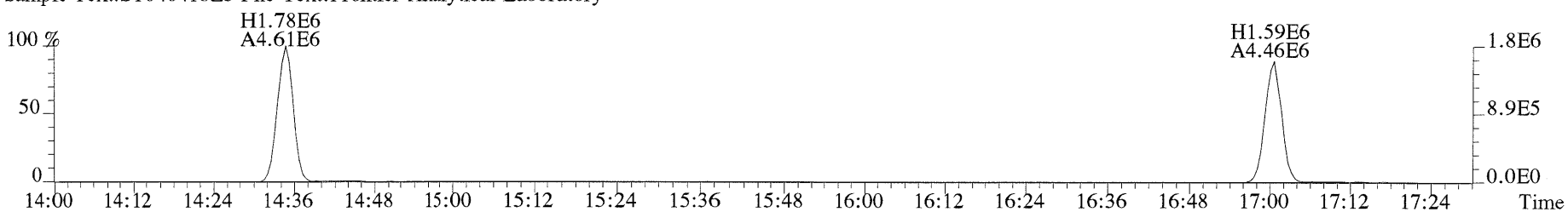
File:04APR18Z #1-784 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



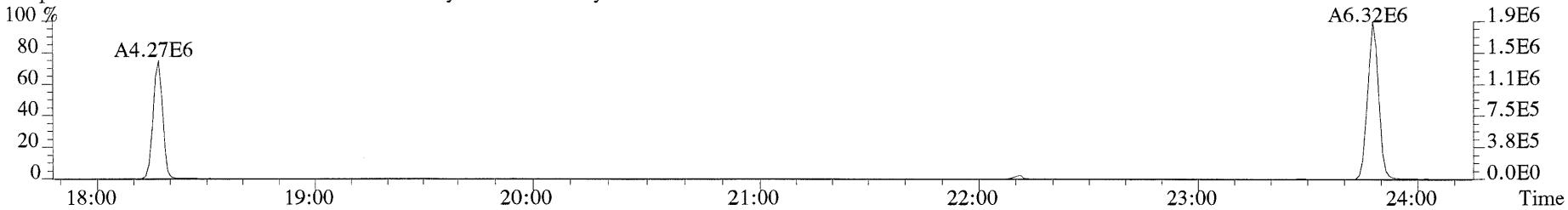
File:04APR18Z #1-784 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



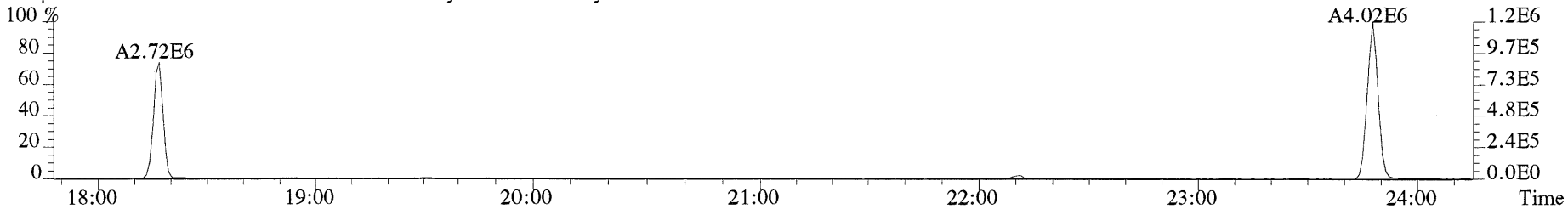
File:04APR18Z #1-784 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



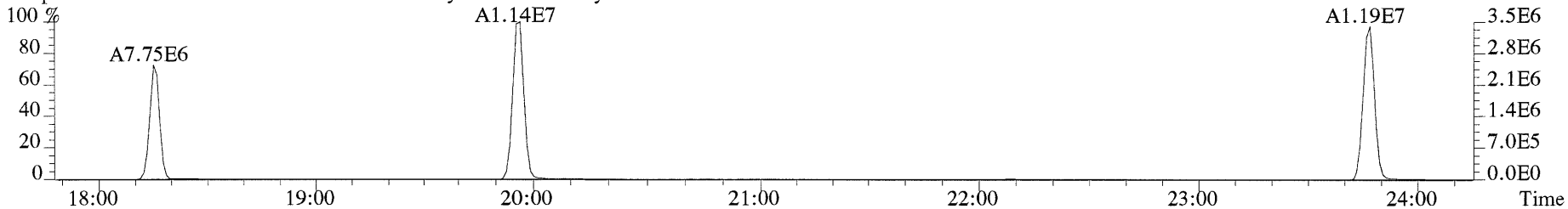
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



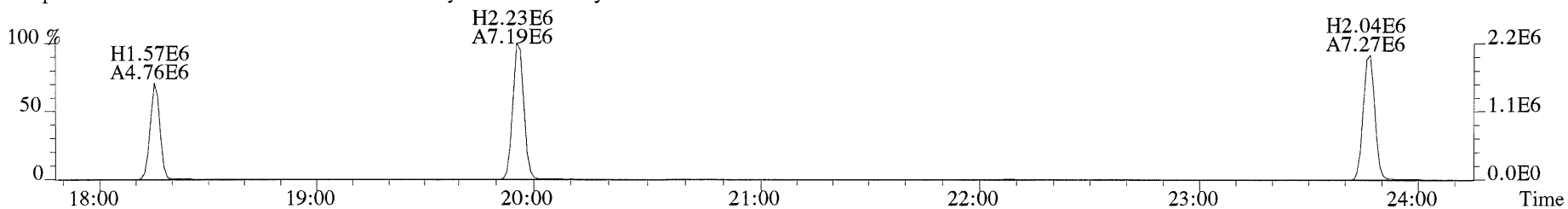
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



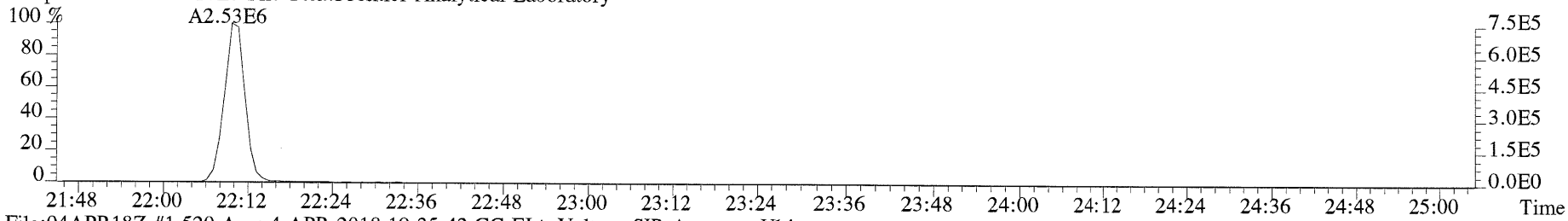
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



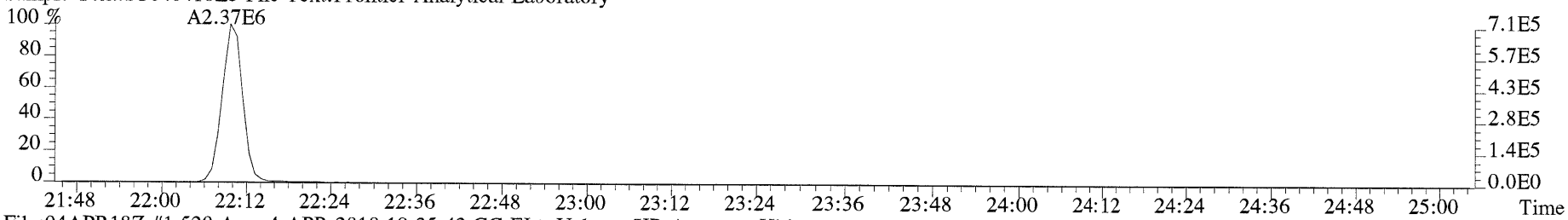
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



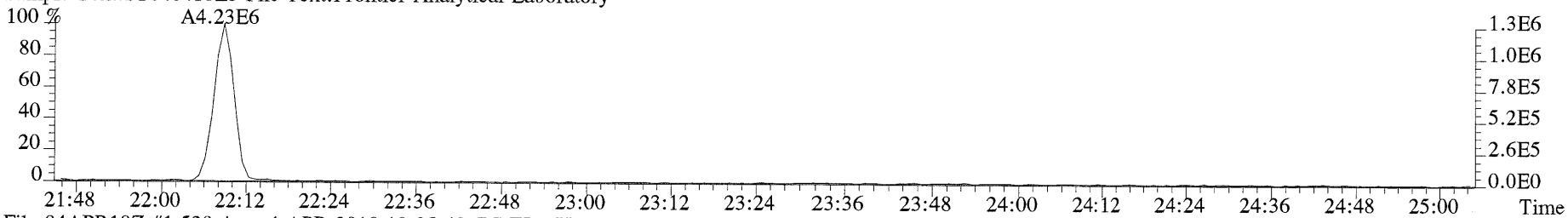
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



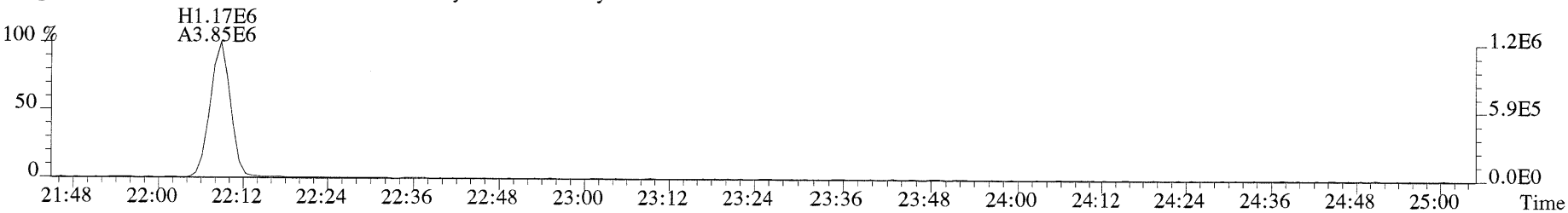
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



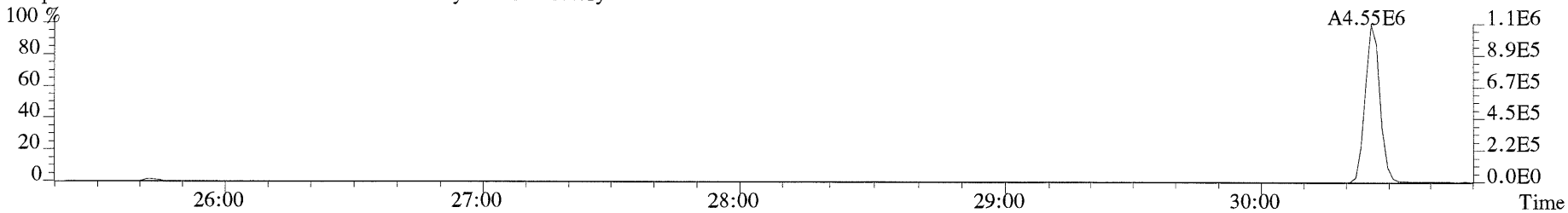
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



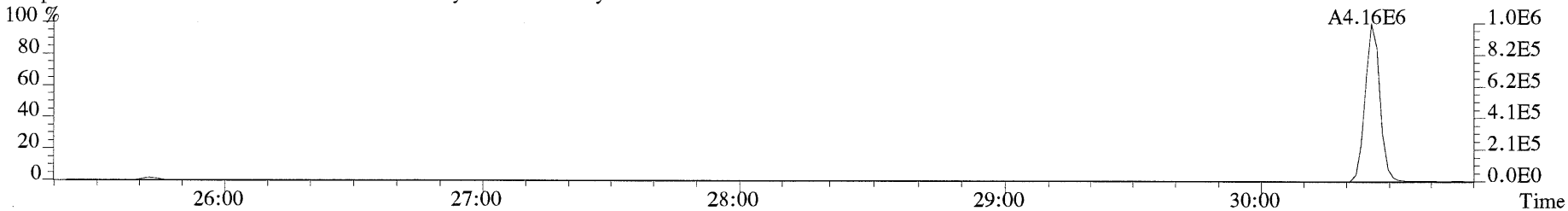
File:04APR18Z #1-520 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



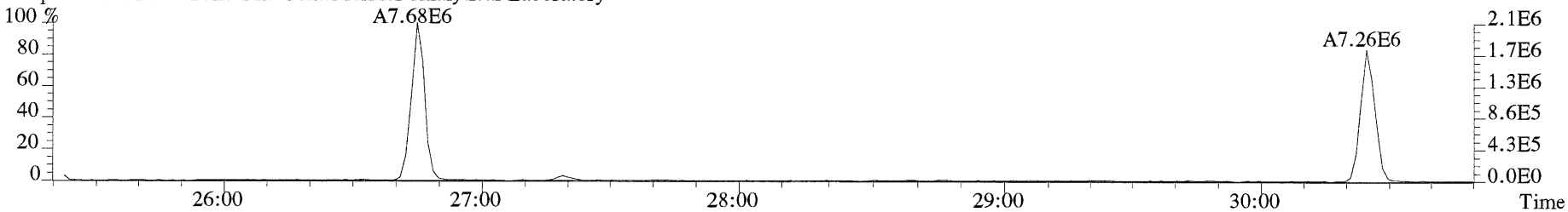
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



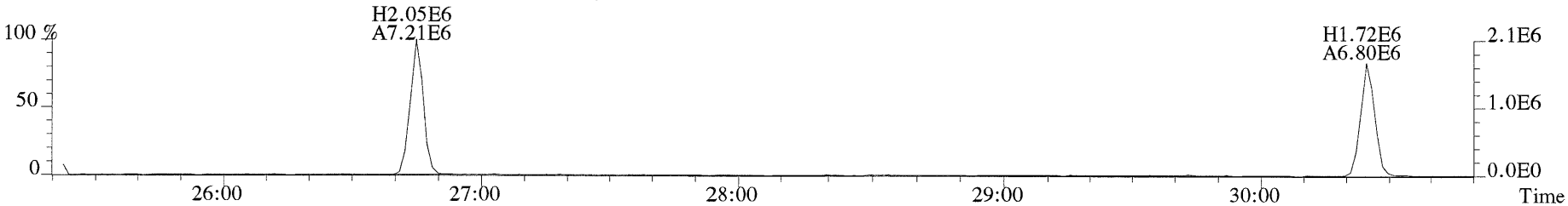
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



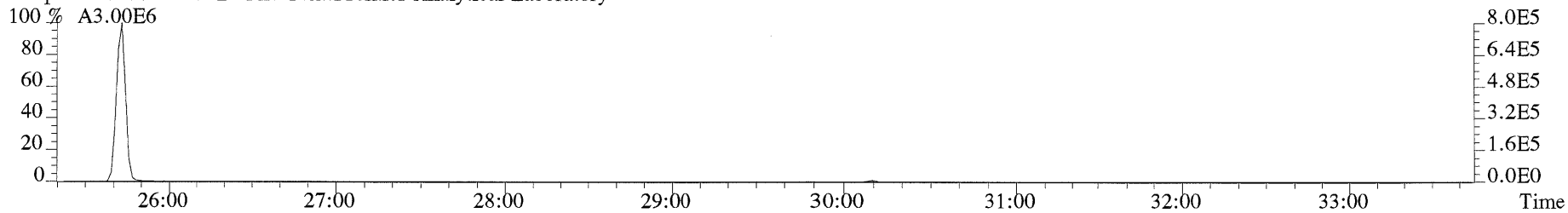
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



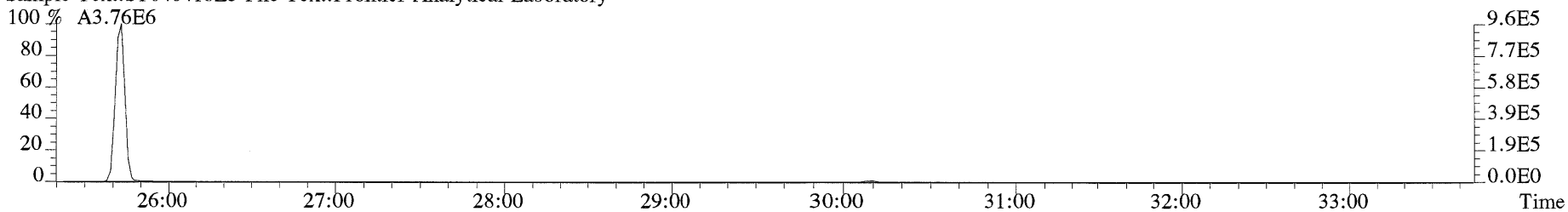
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



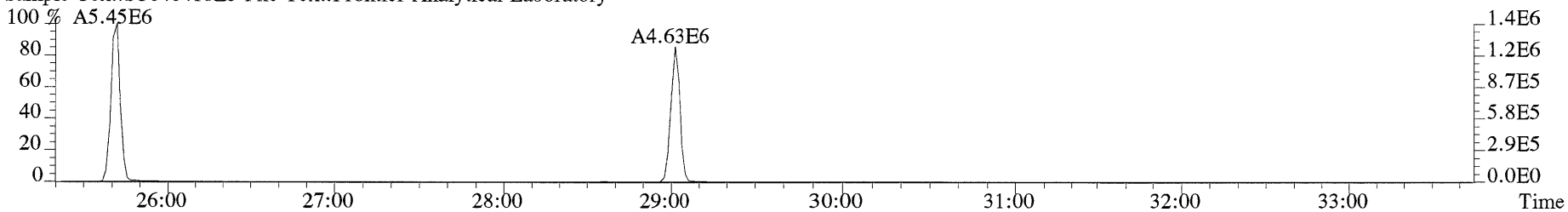
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



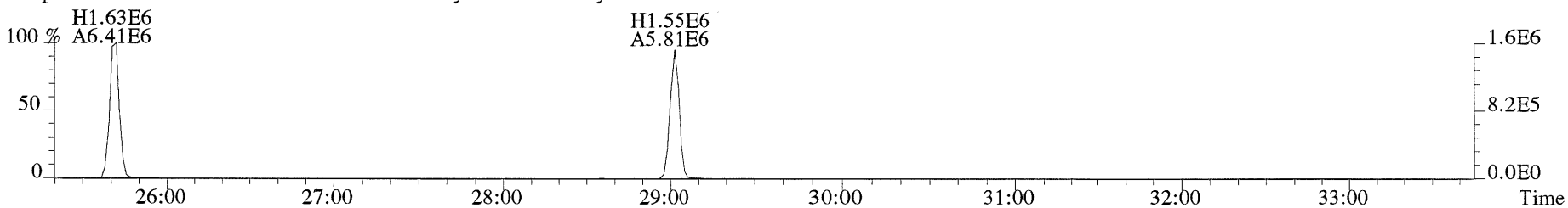
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



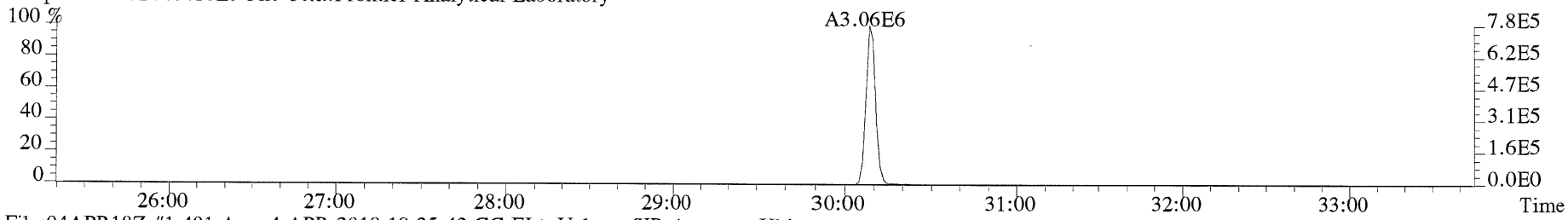
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



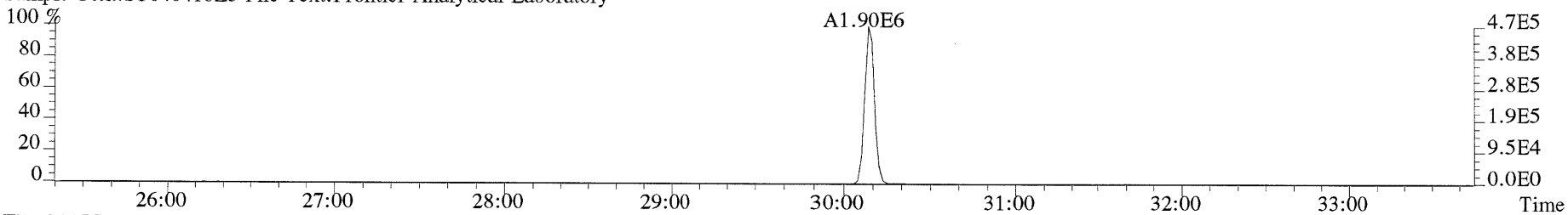
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



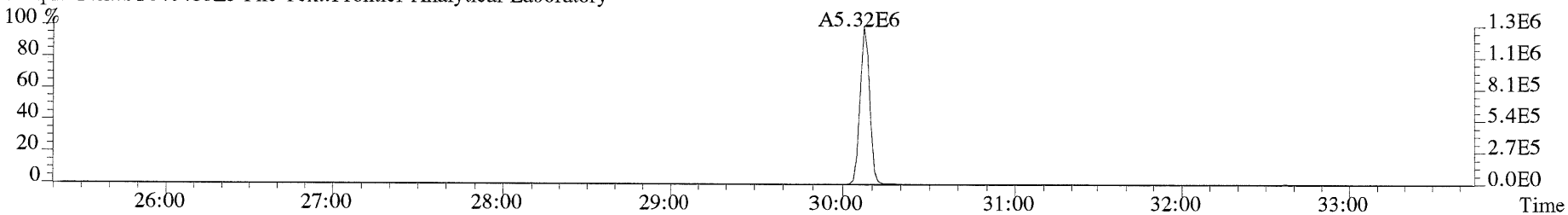
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



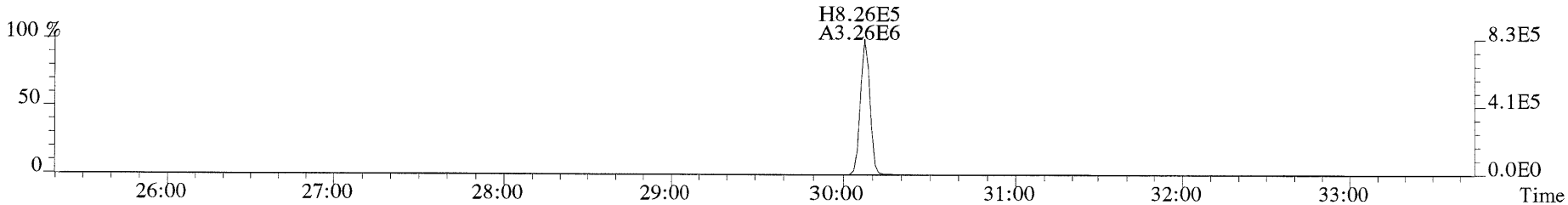
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



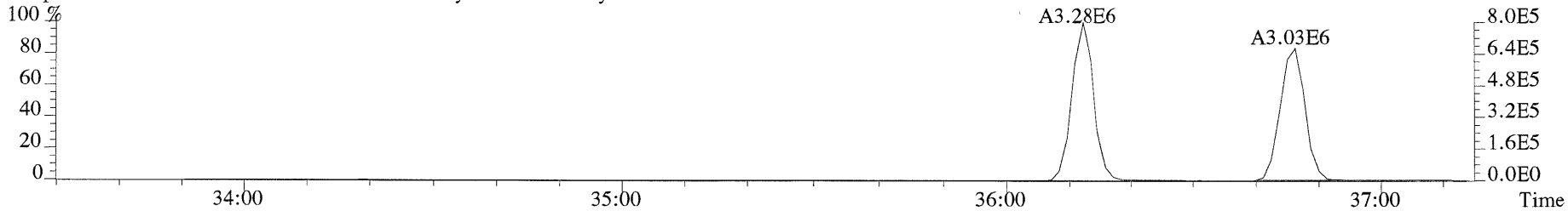
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



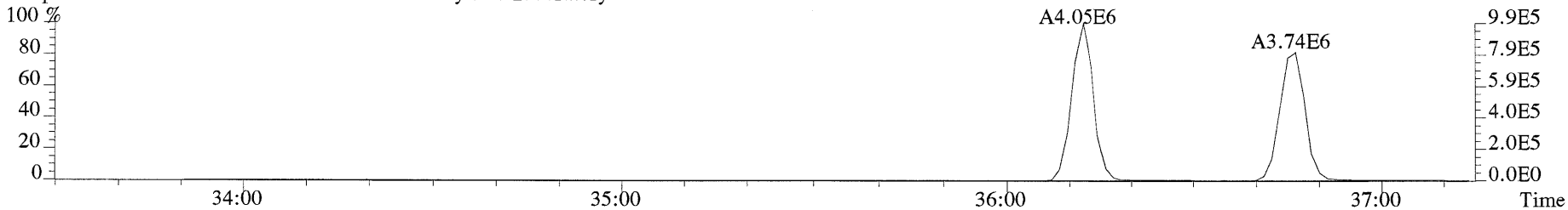
File:04APR18Z #1-401 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



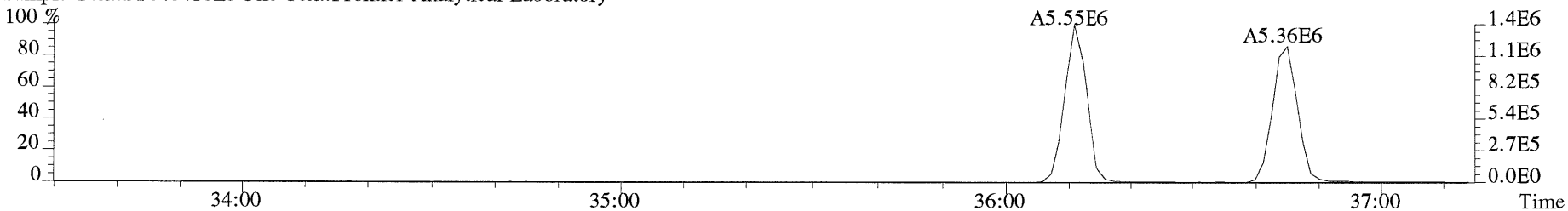
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



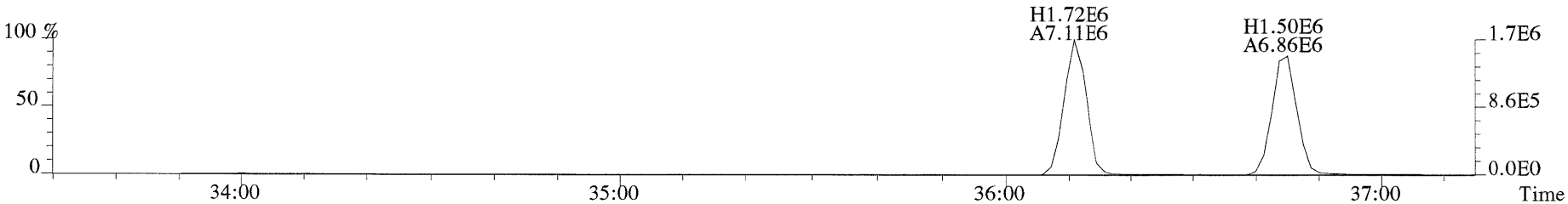
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



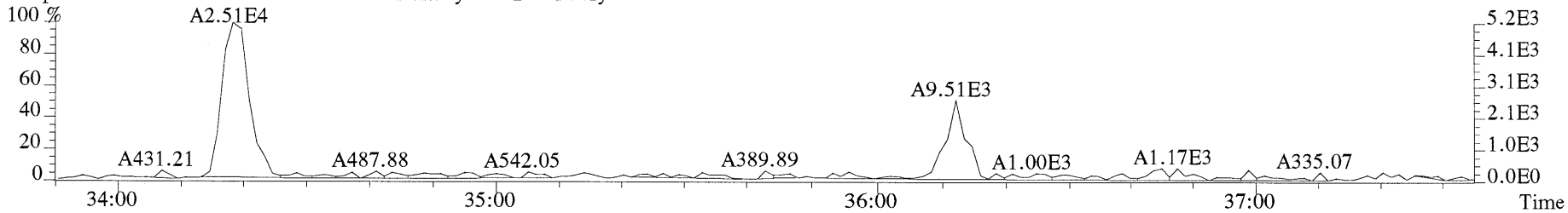
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



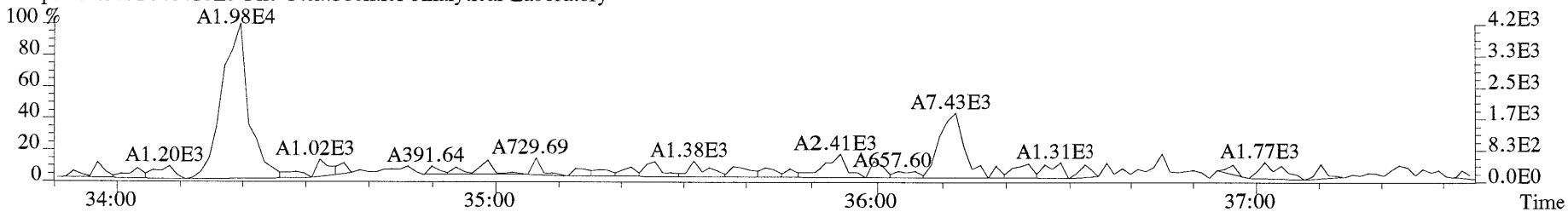
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



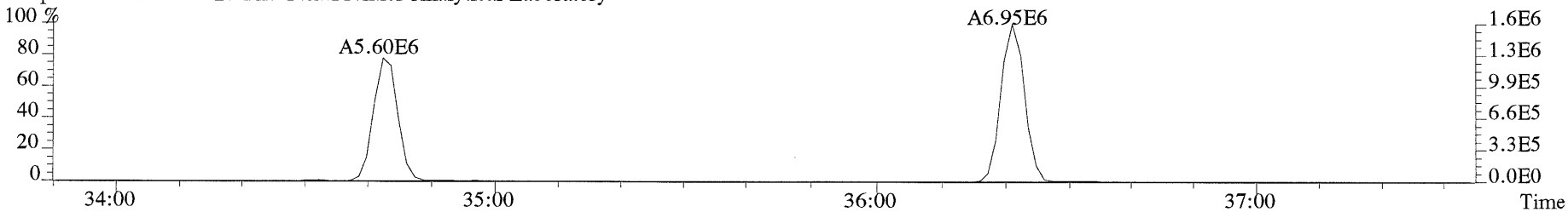
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



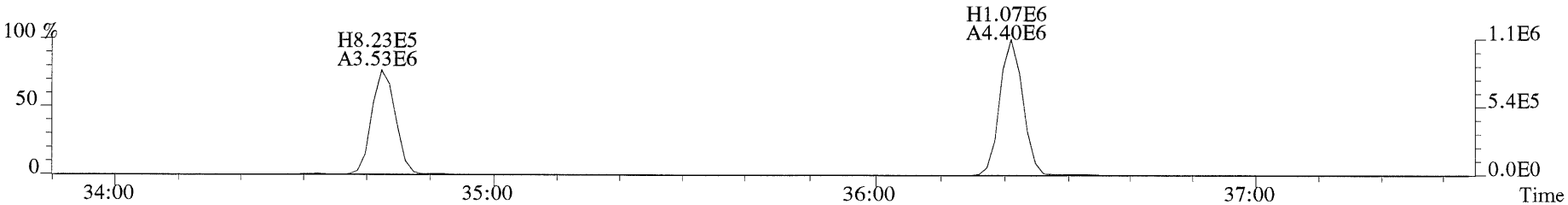
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



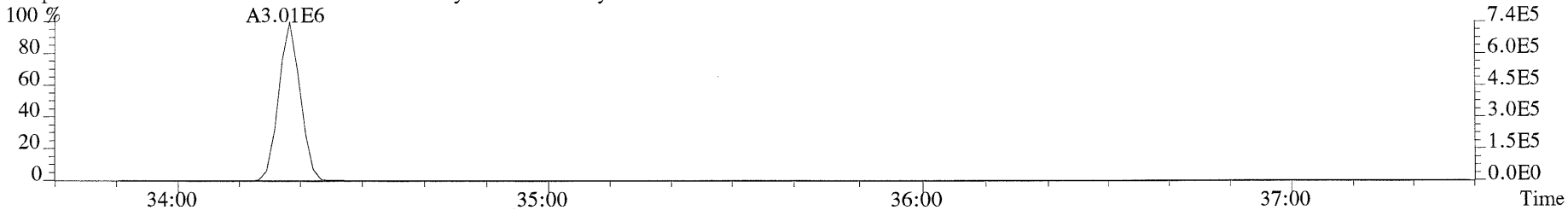
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



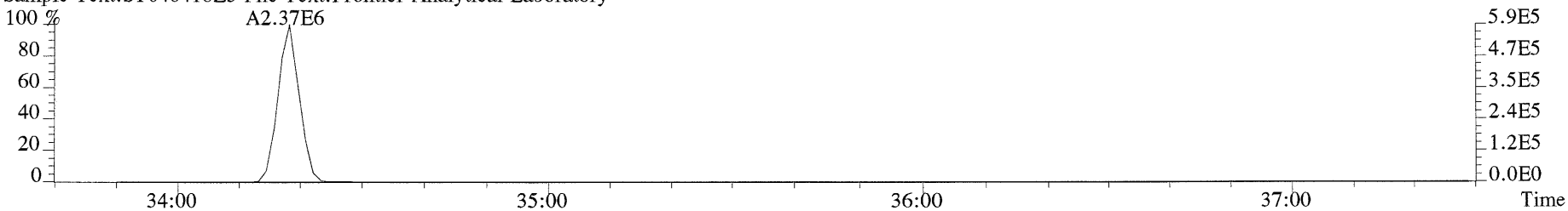
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



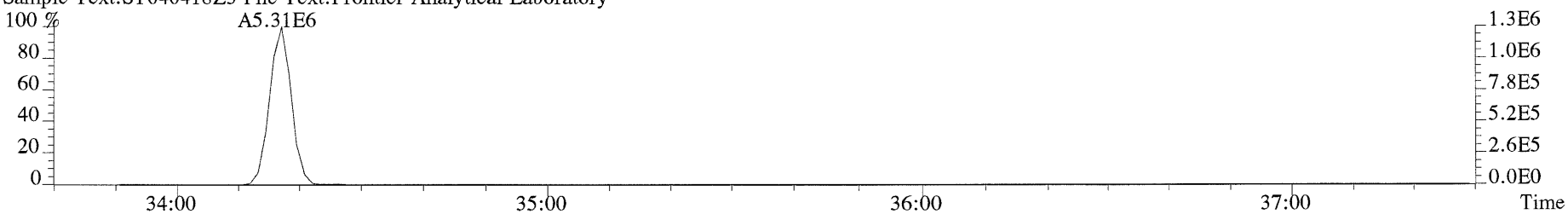
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



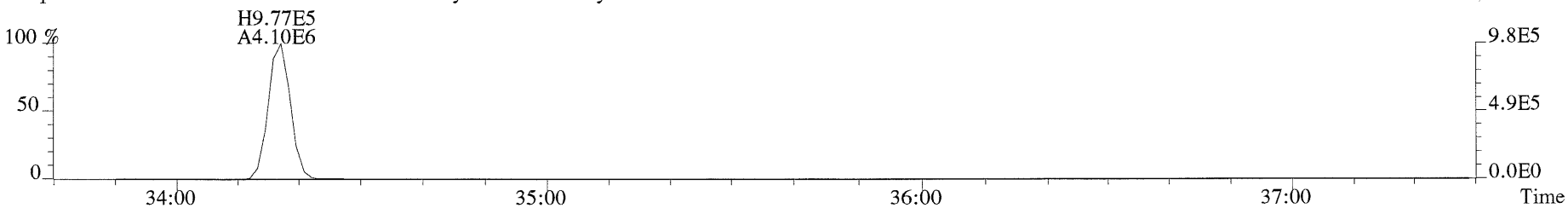
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



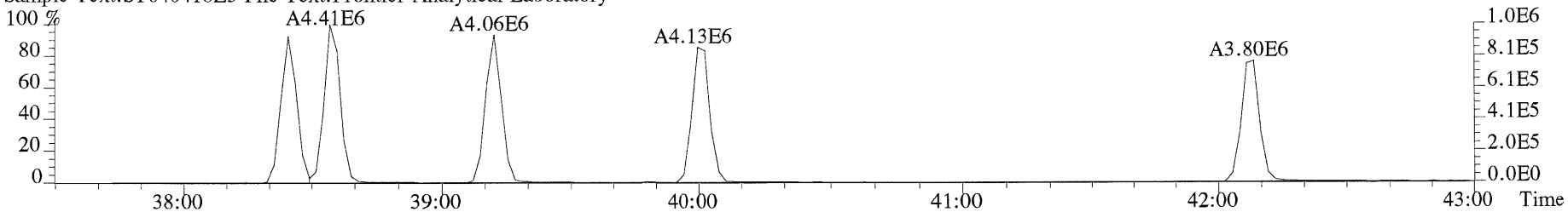
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



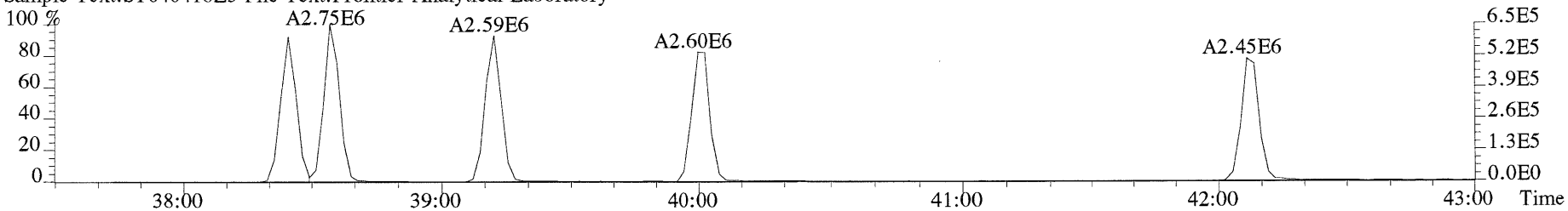
File:04APR18Z #1-183 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



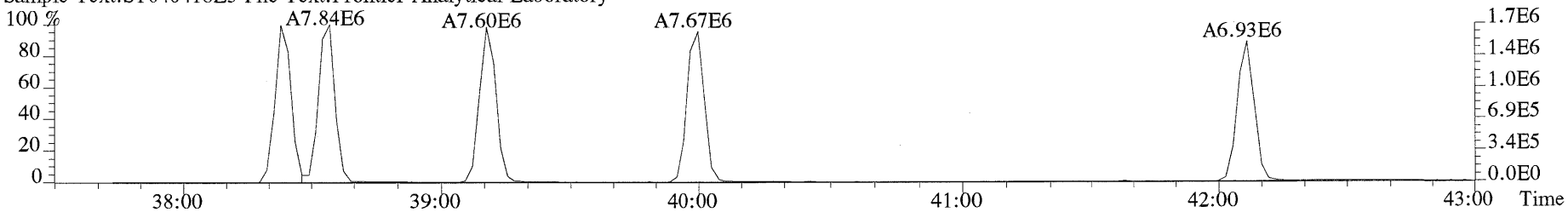
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



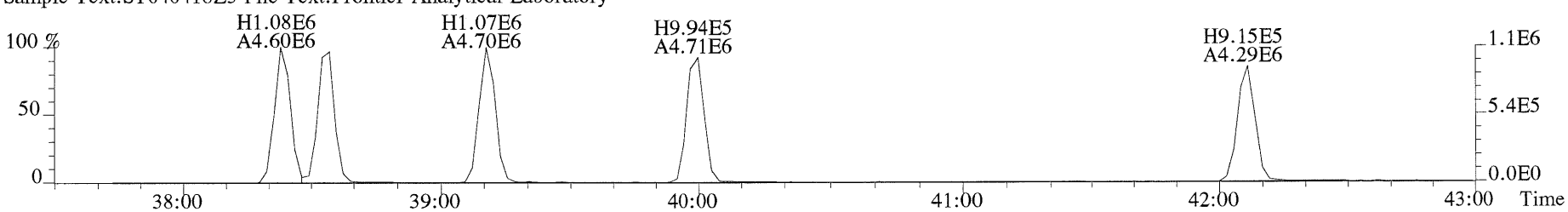
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



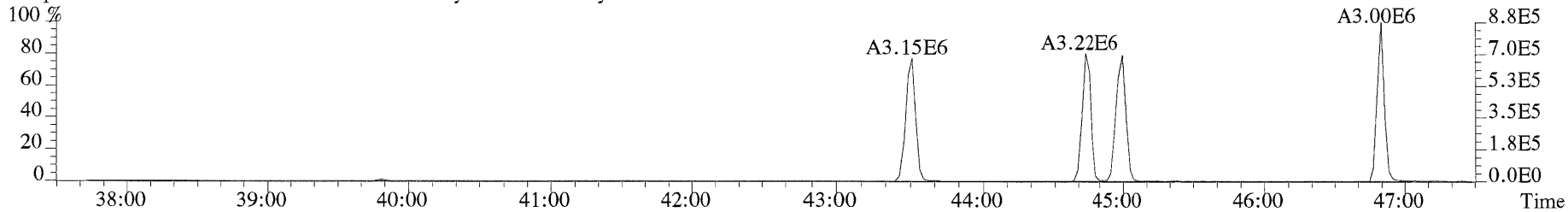
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



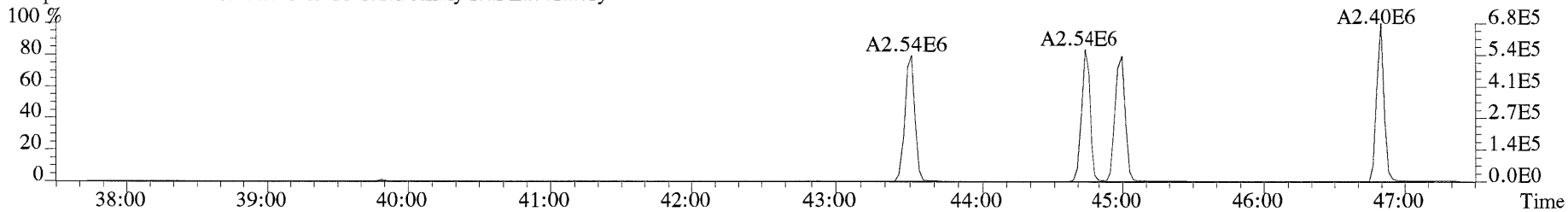
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



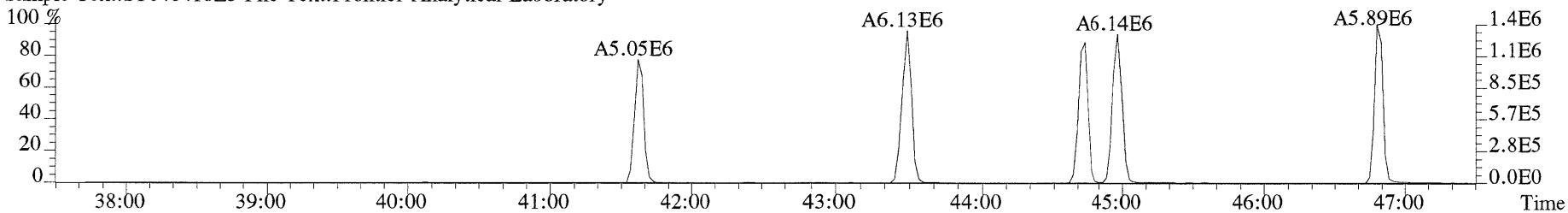
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



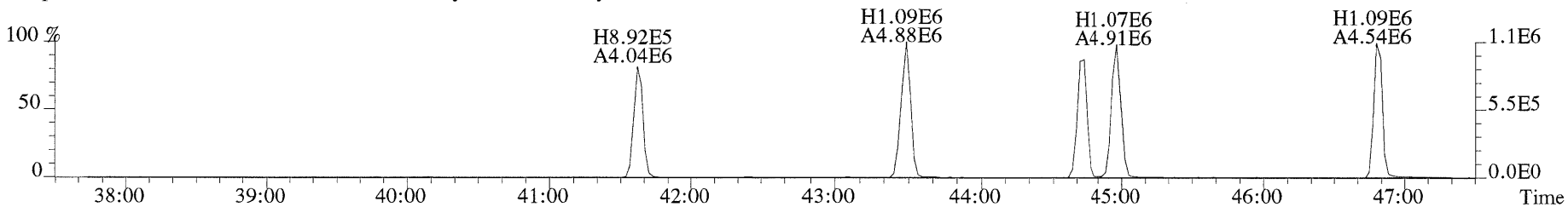
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



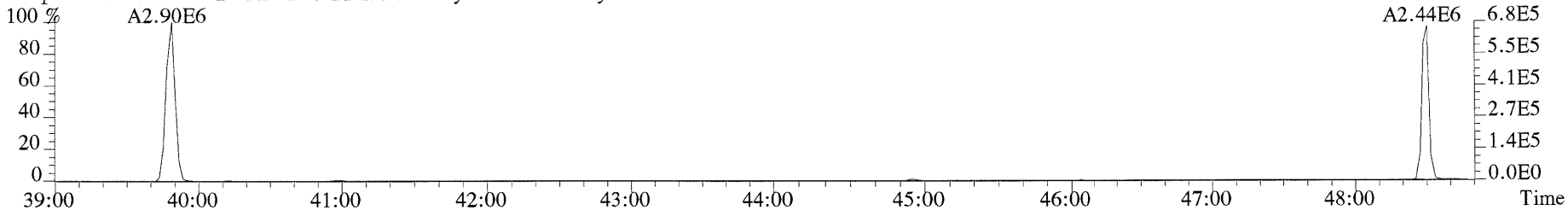
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



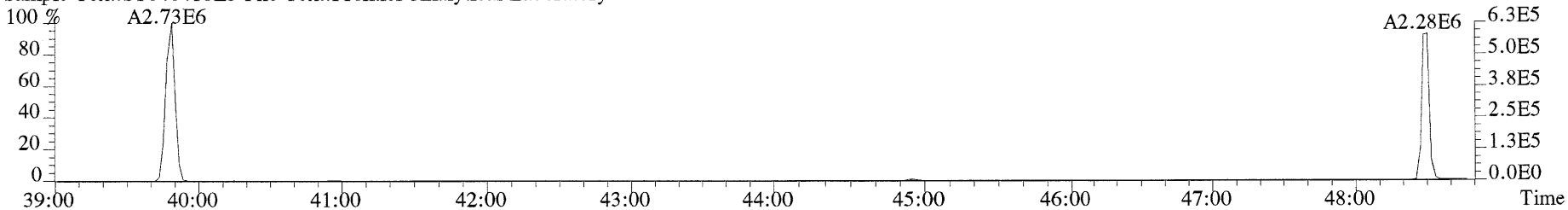
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



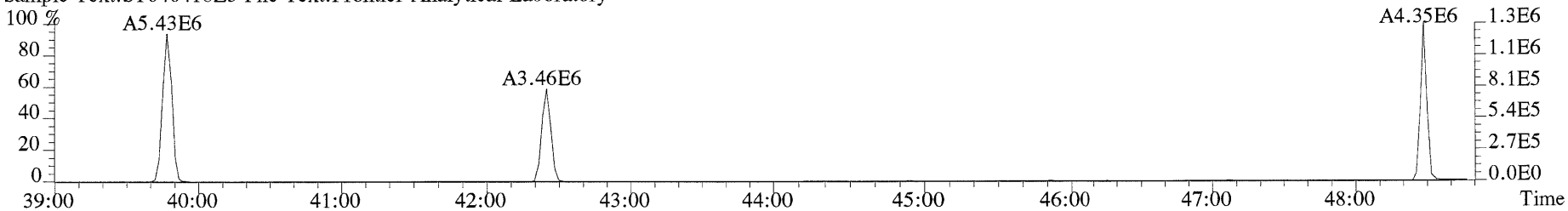
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



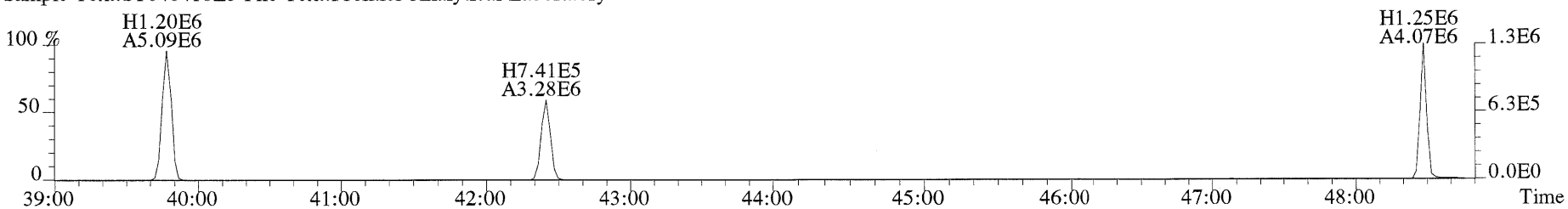
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



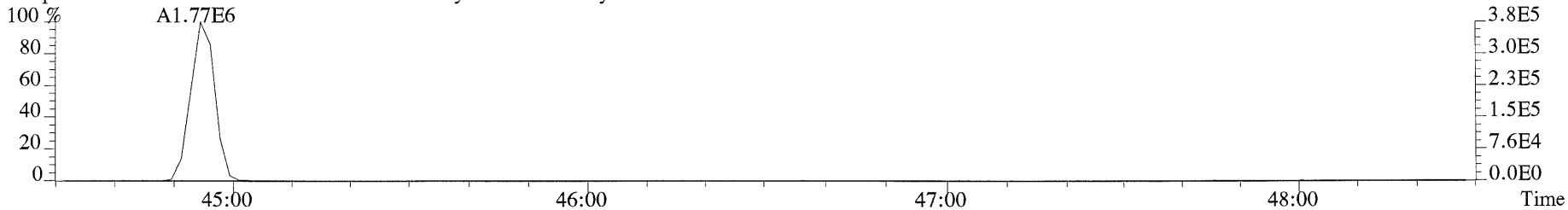
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



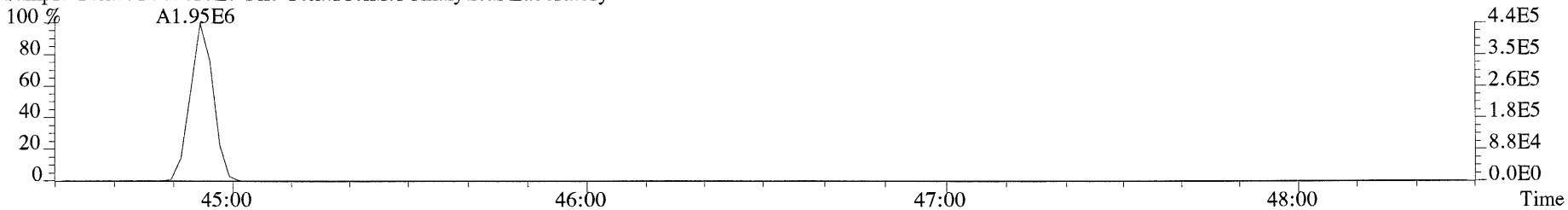
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



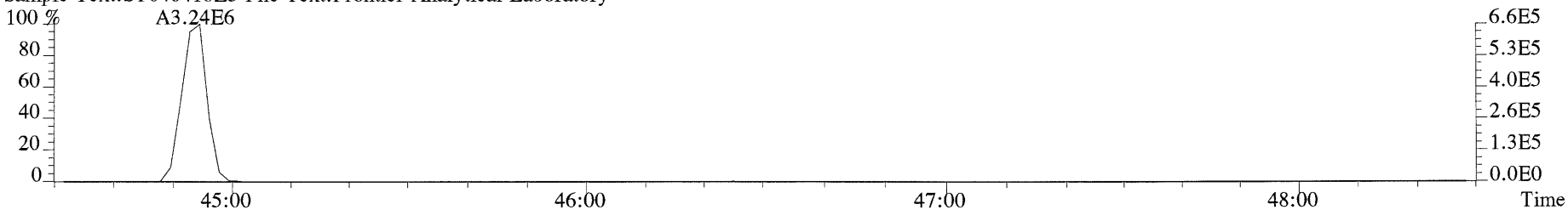
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



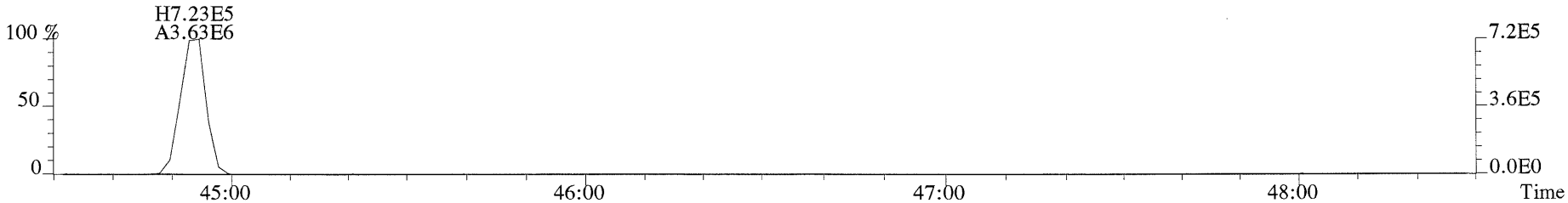
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



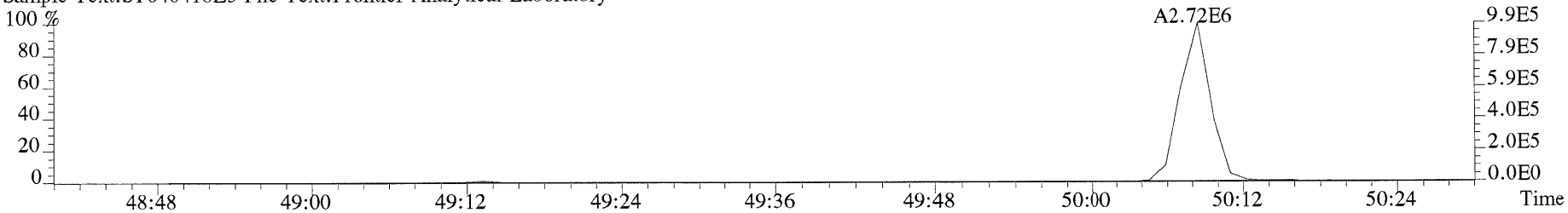
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



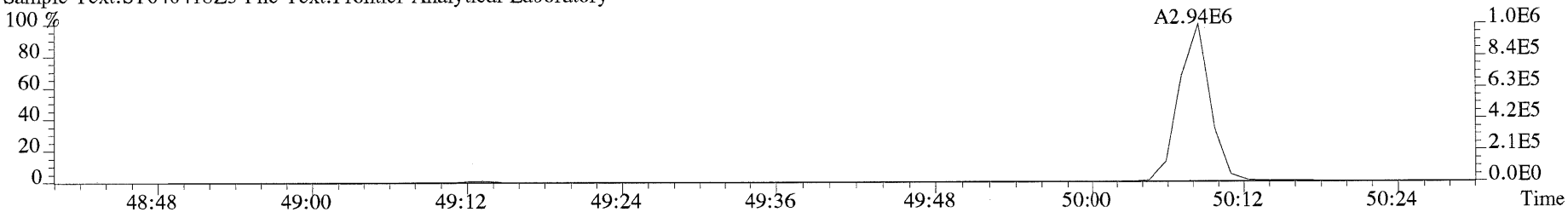
File:04APR18Z #1-404 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



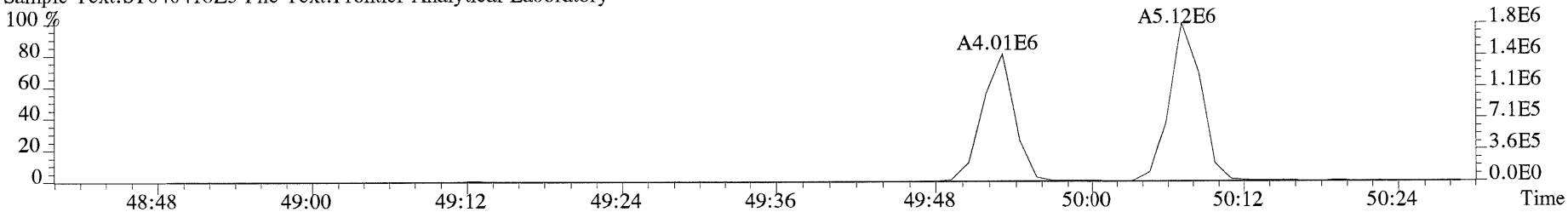
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



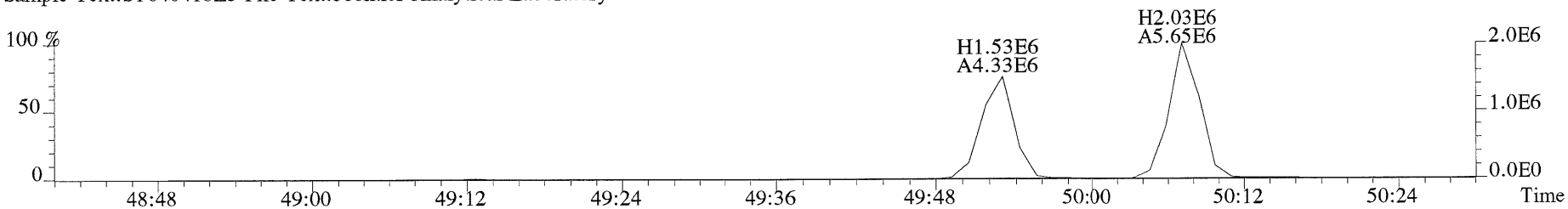
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



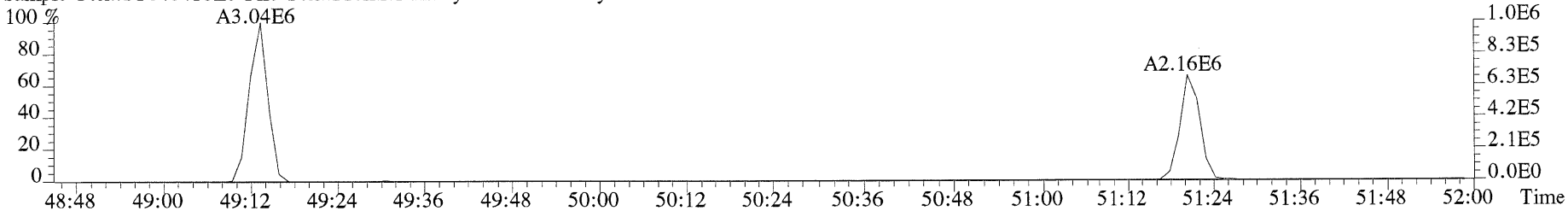
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



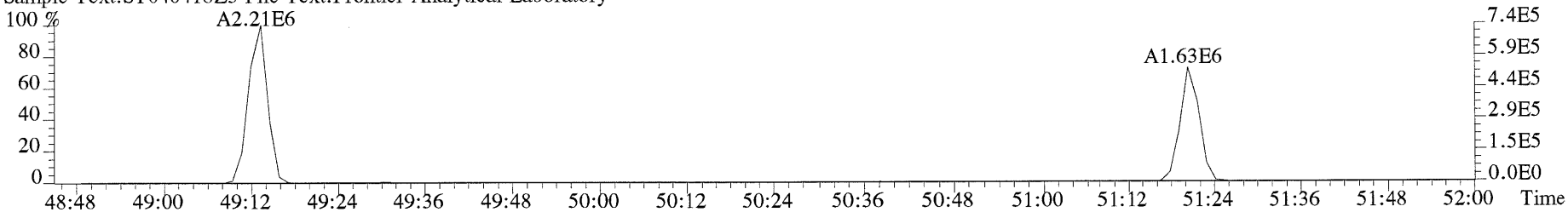
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



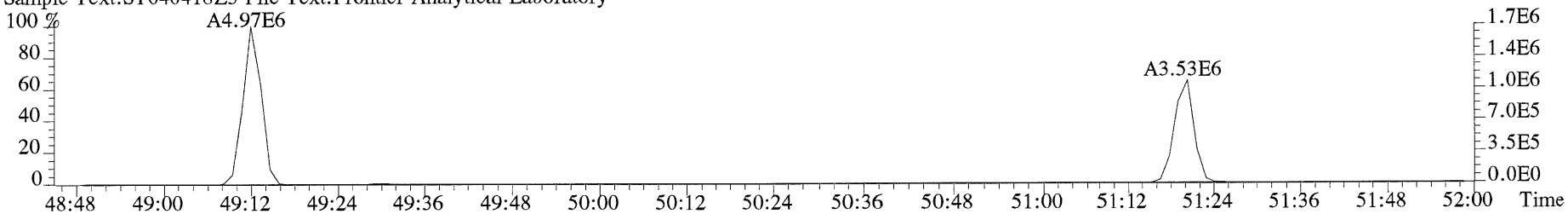
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



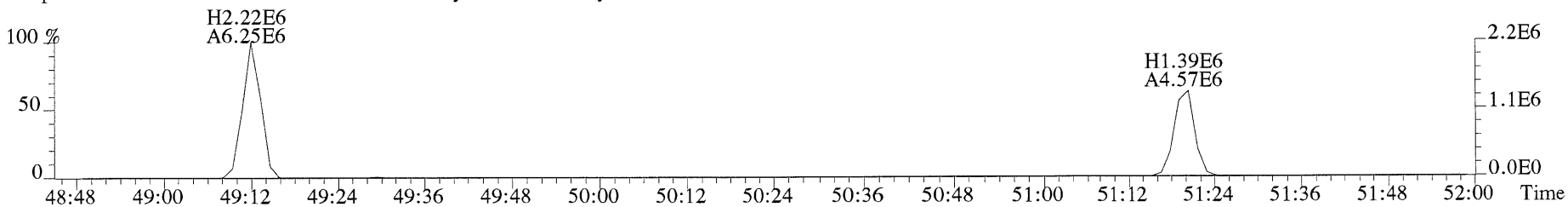
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



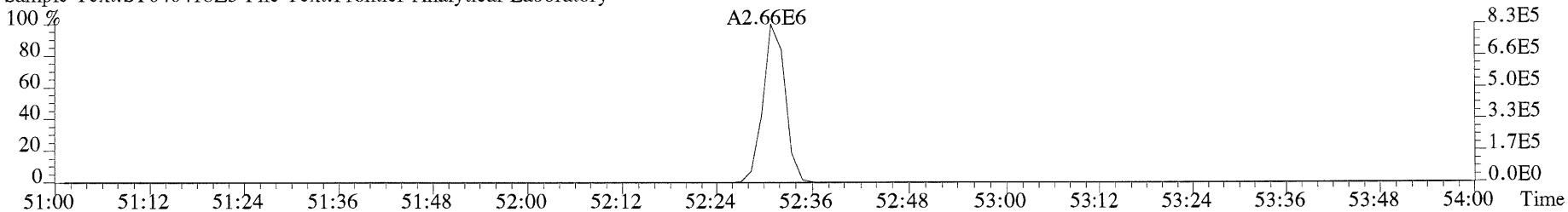
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



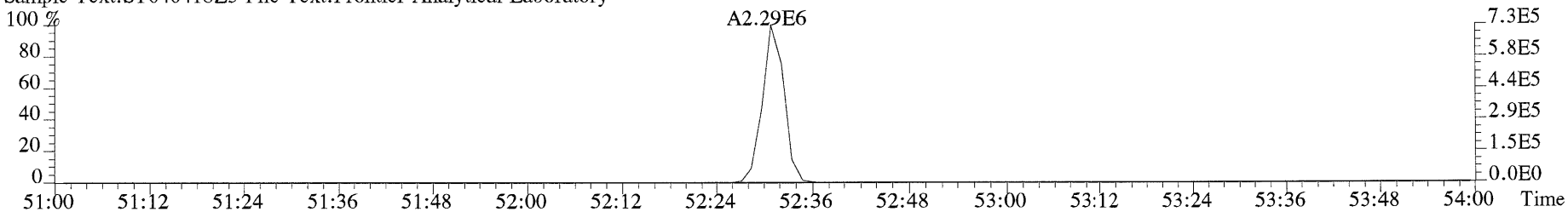
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



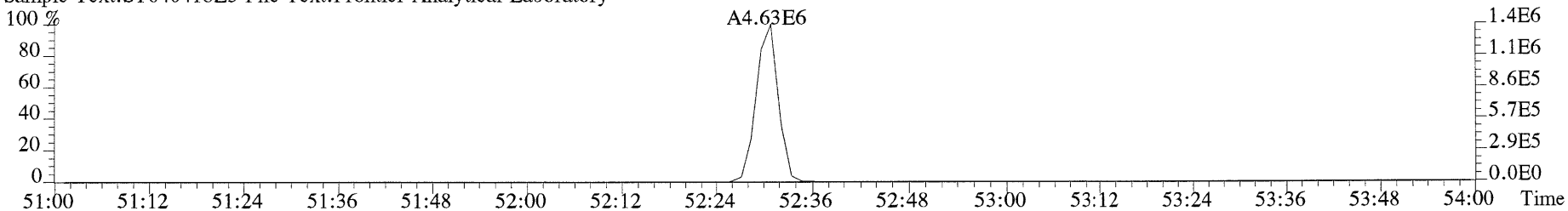
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



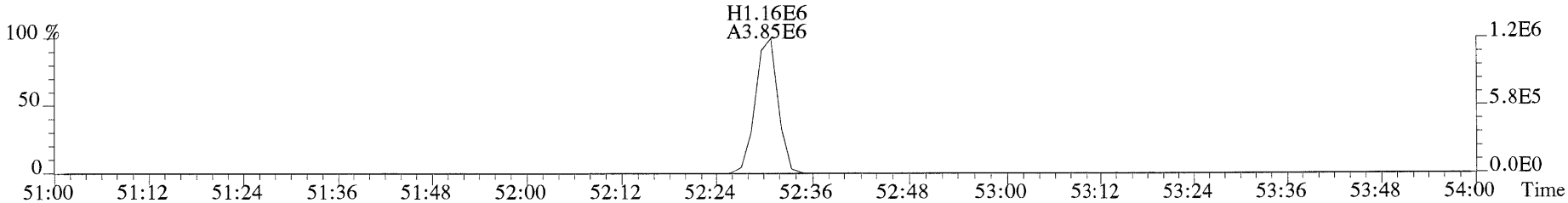
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



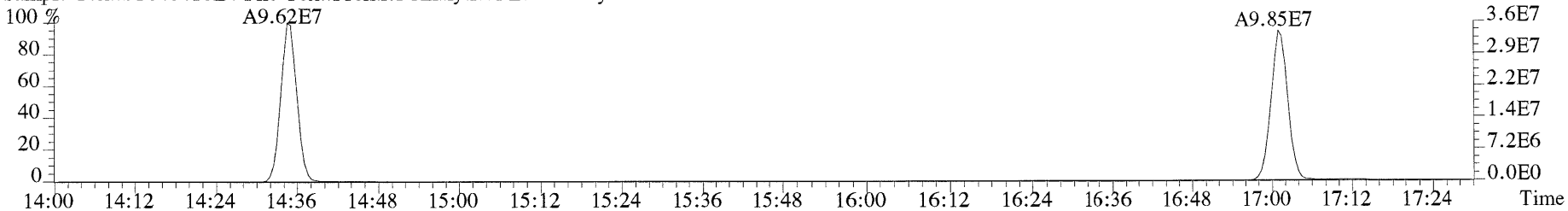
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



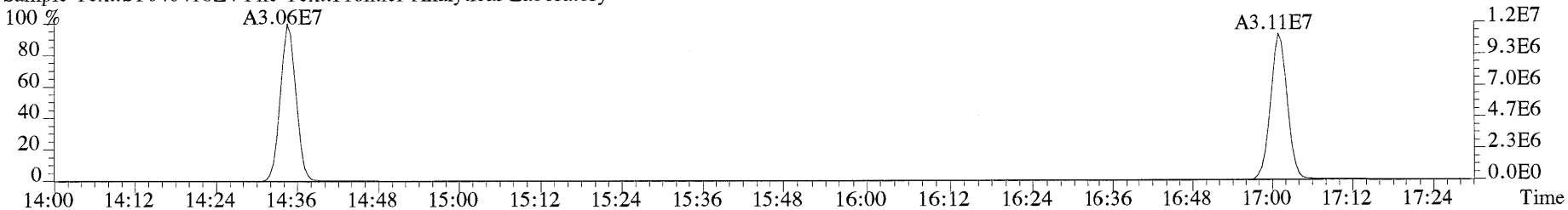
File:04APR18Z #1-314 Acq: 4-APR-2018 19:35:42 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z3 File Text:Frontier Analytical Laboratory



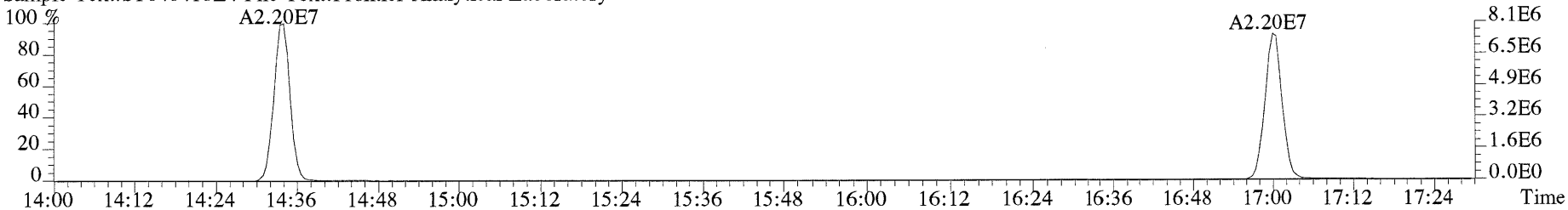
File:04APR18Z #1-784 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



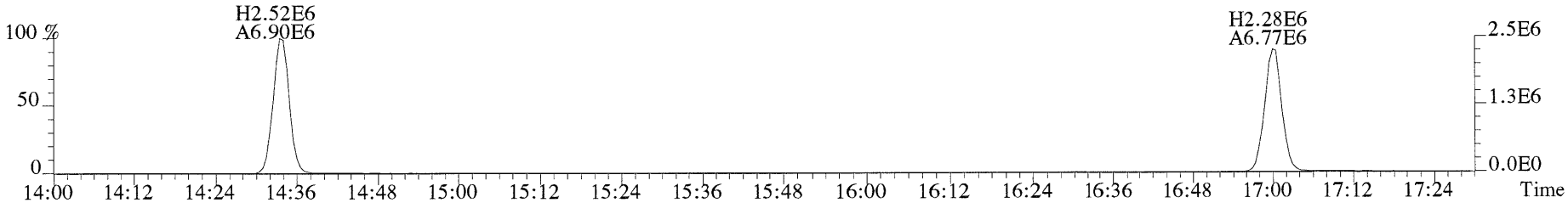
File:04APR18Z #1-784 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



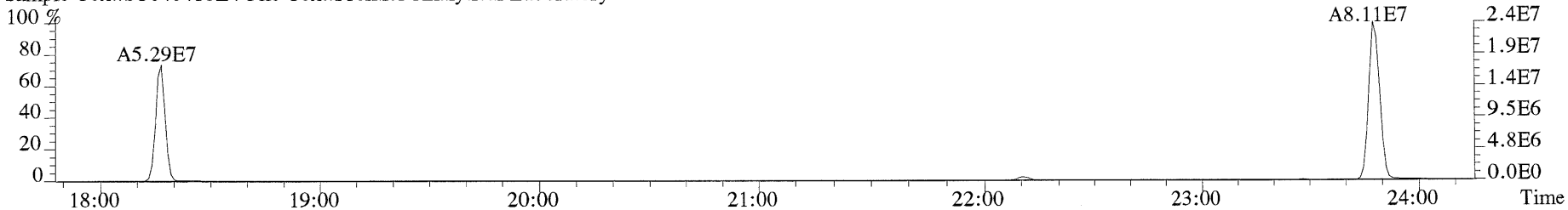
File:04APR18Z #1-784 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



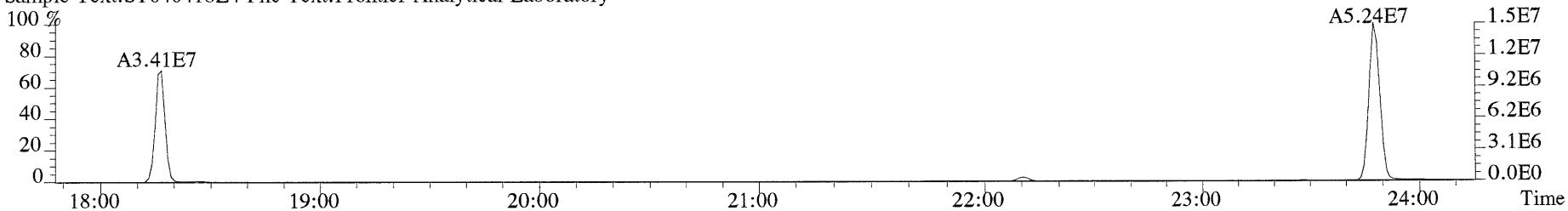
File:04APR18Z #1-784 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



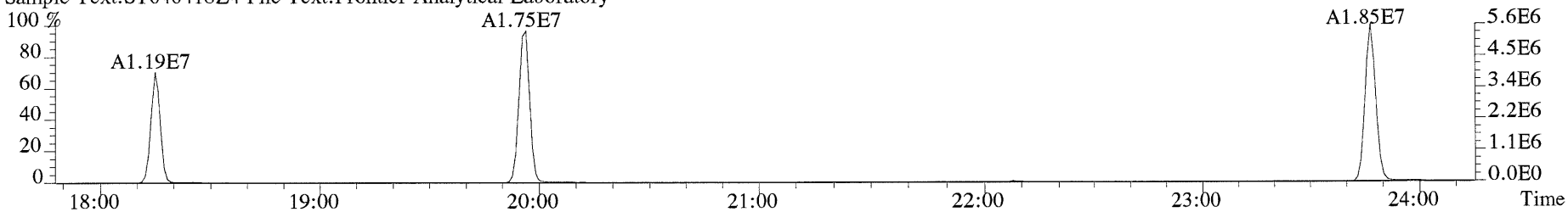
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



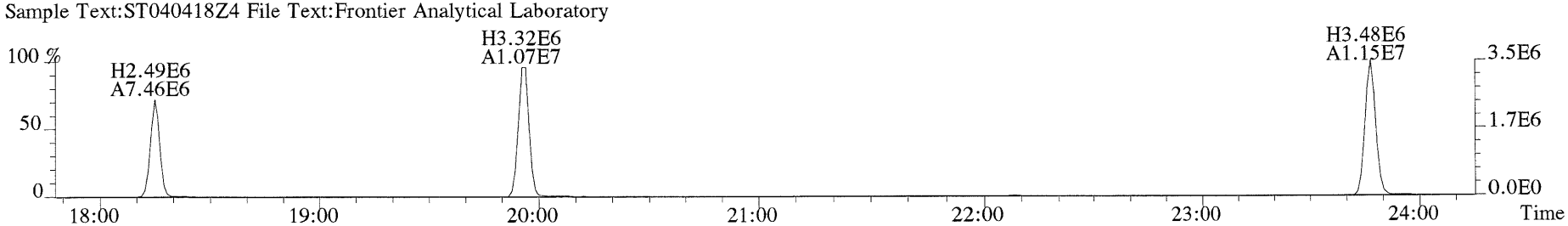
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



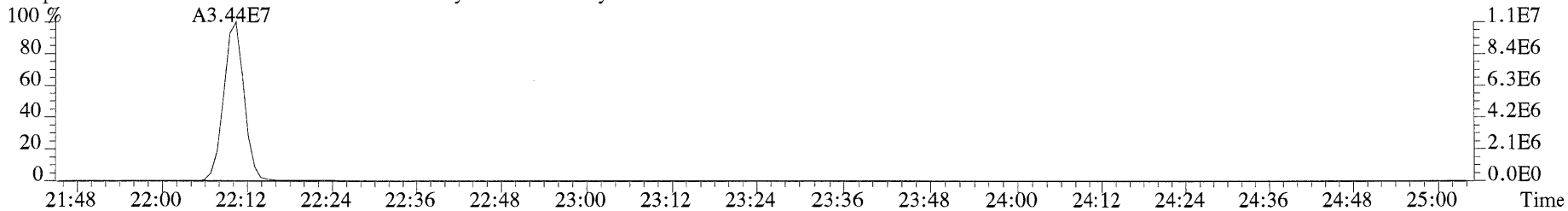
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



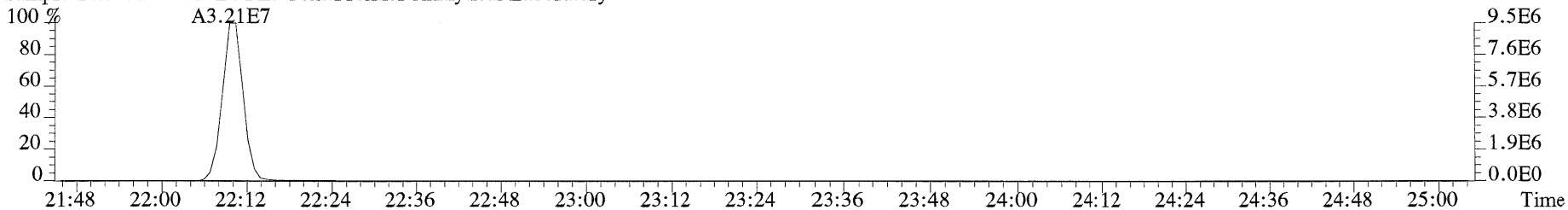
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



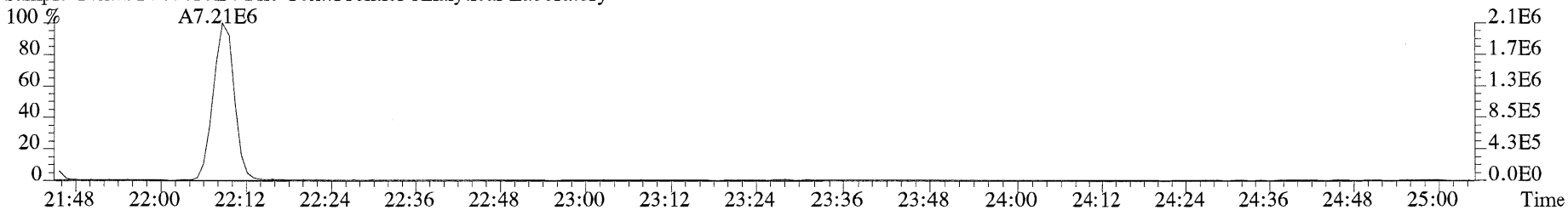
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



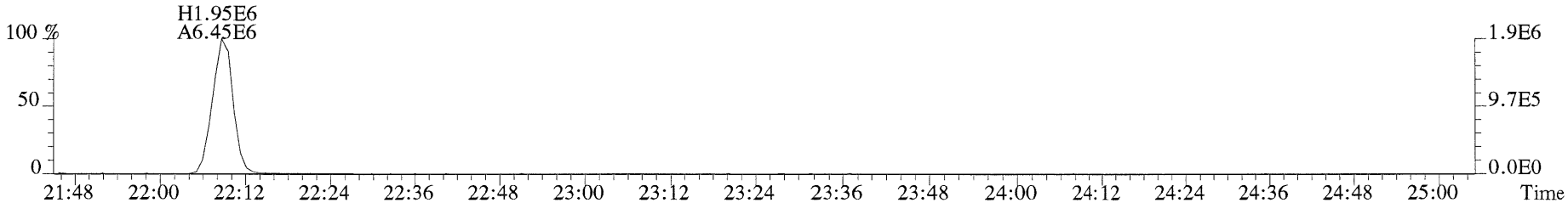
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



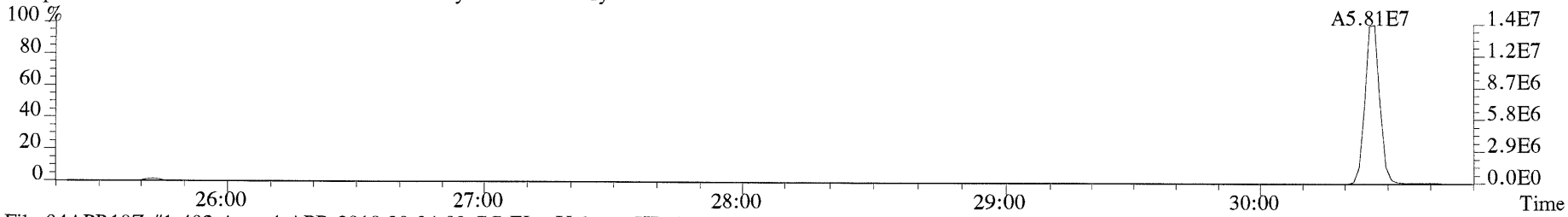
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



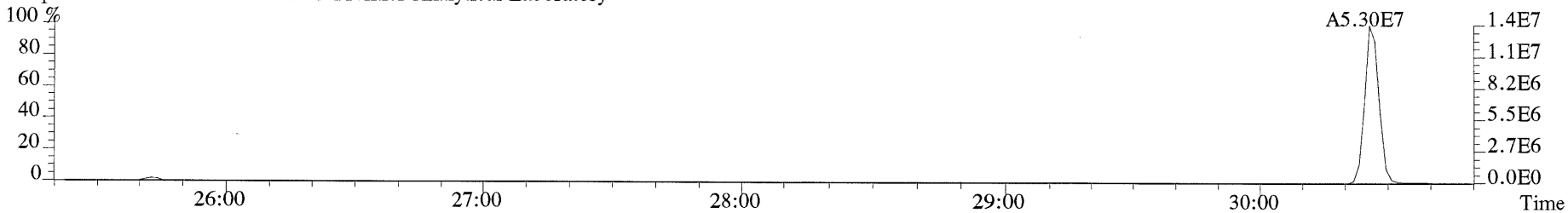
File:04APR18Z #1-520 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



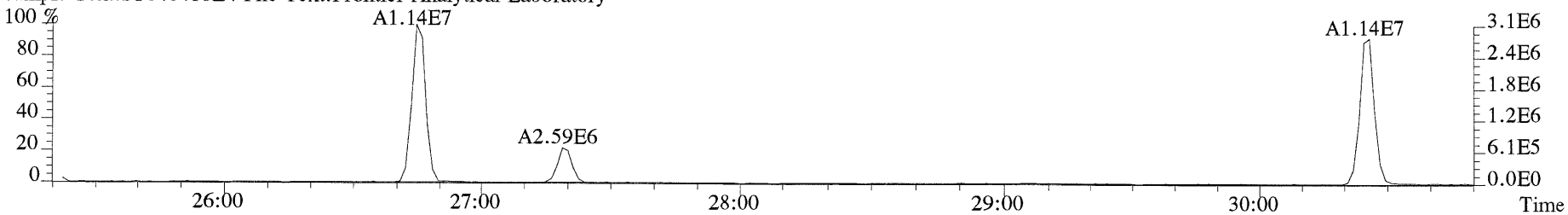
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



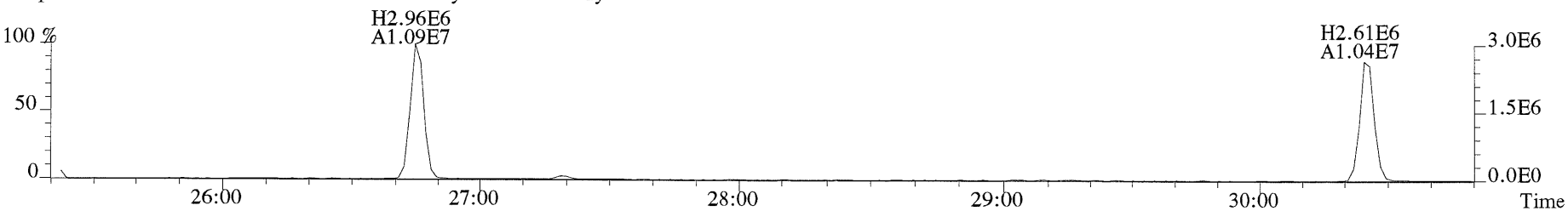
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



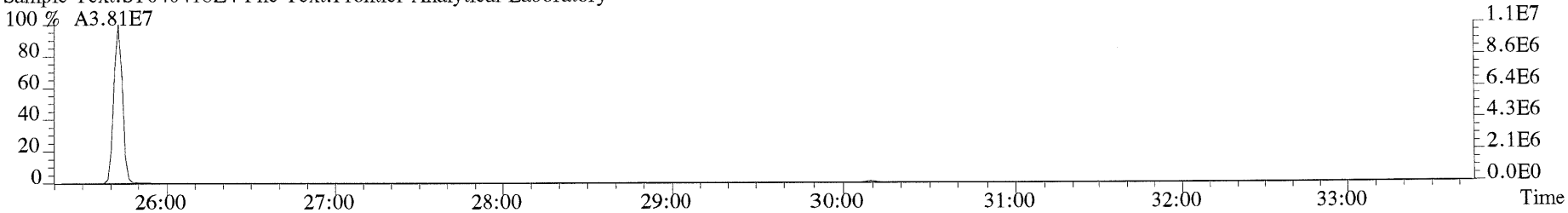
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



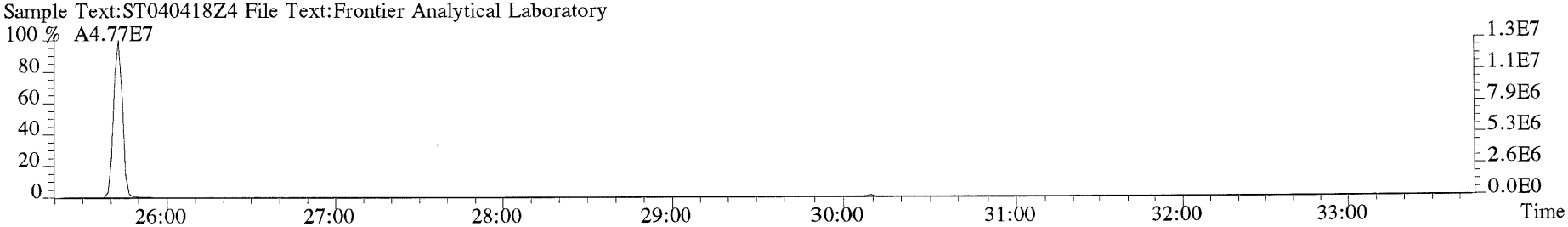
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



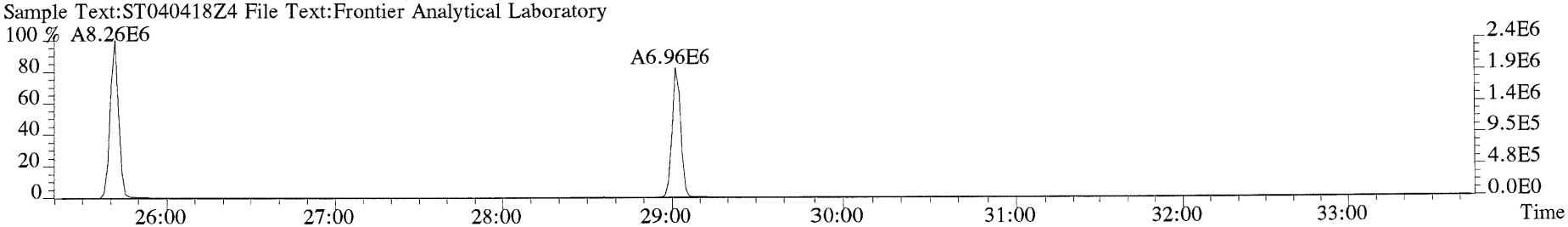
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



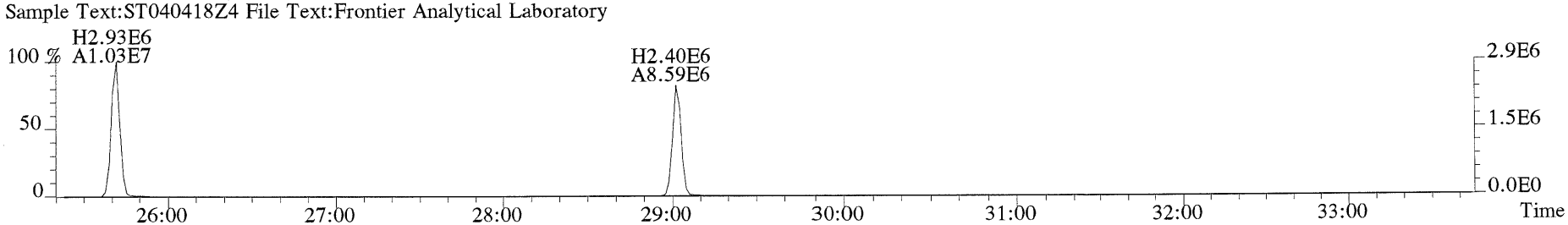
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



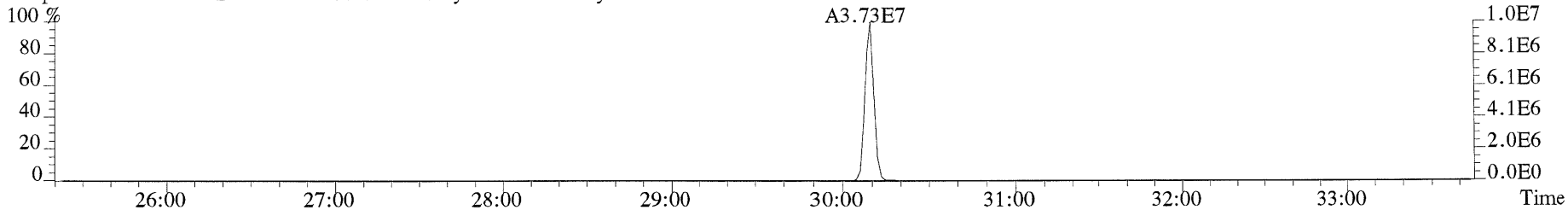
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



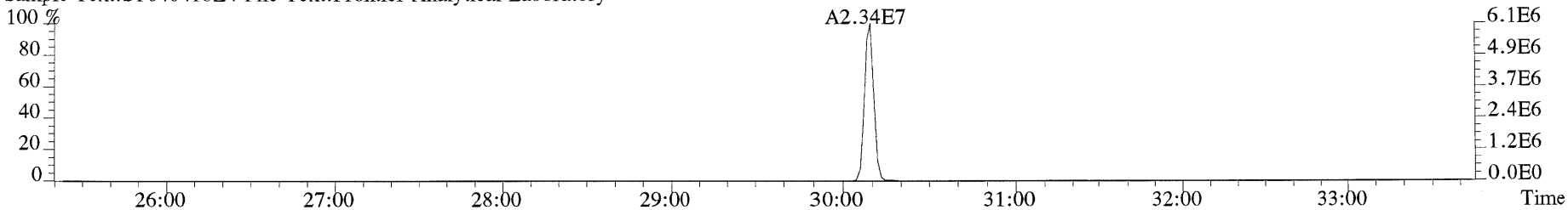
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



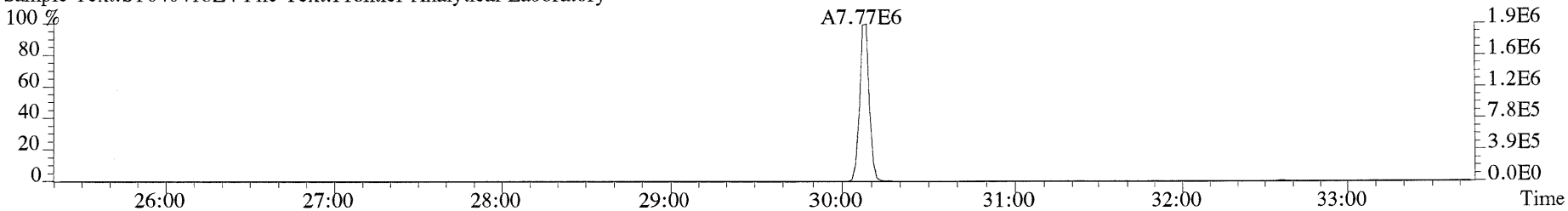
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



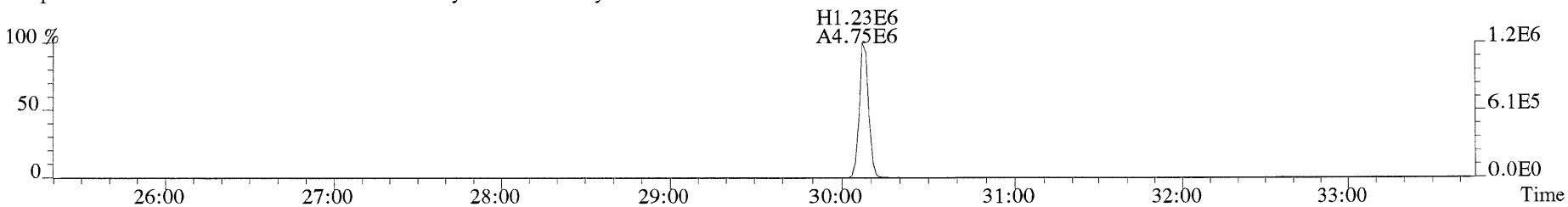
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



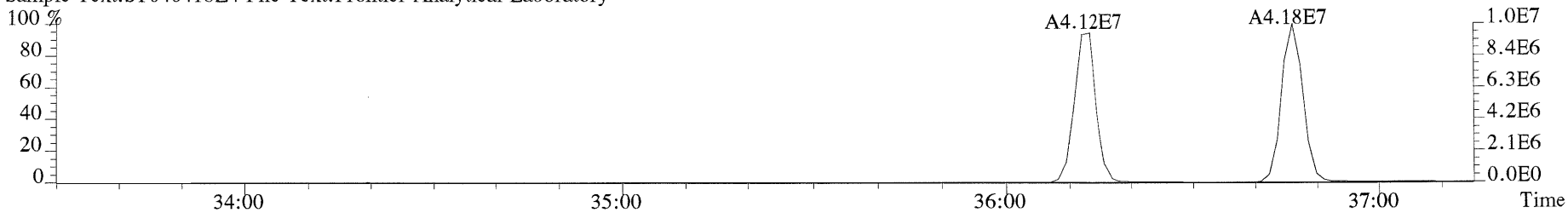
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



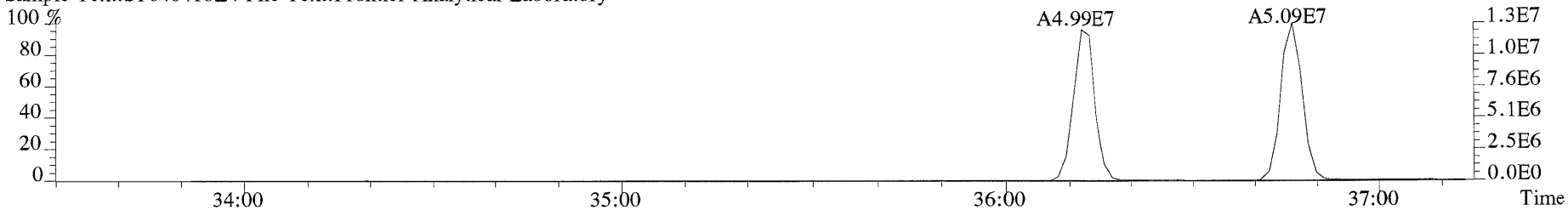
File:04APR18Z #1-402 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



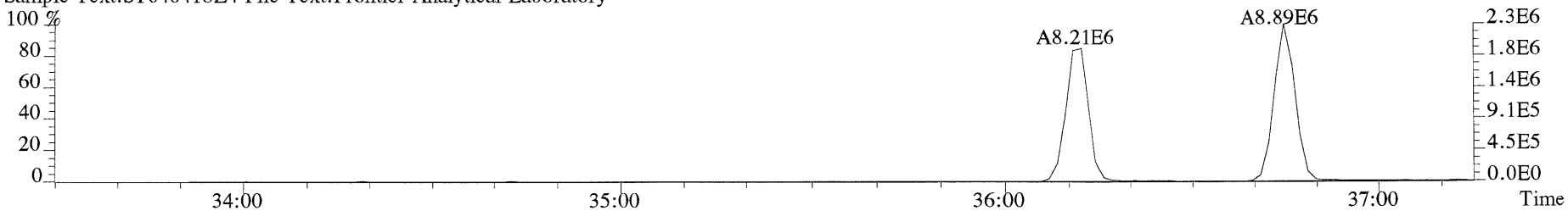
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



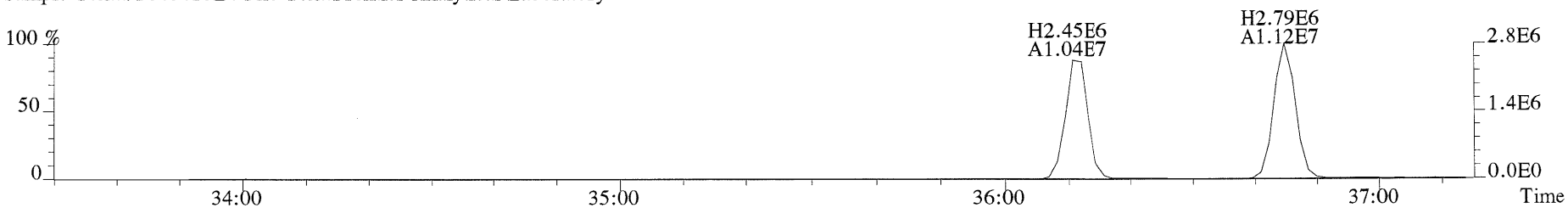
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



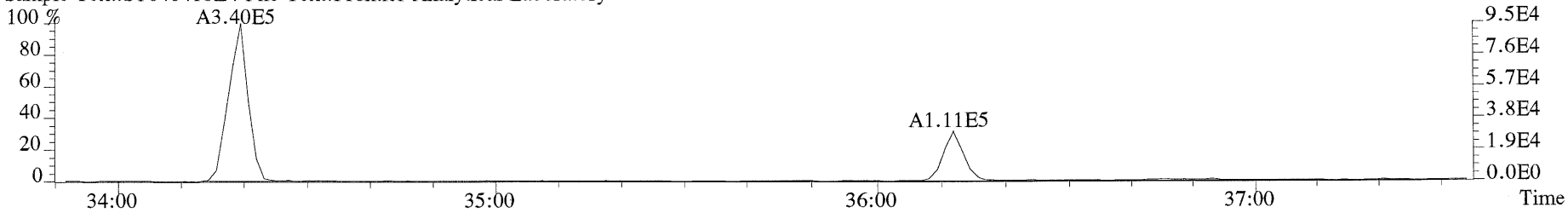
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



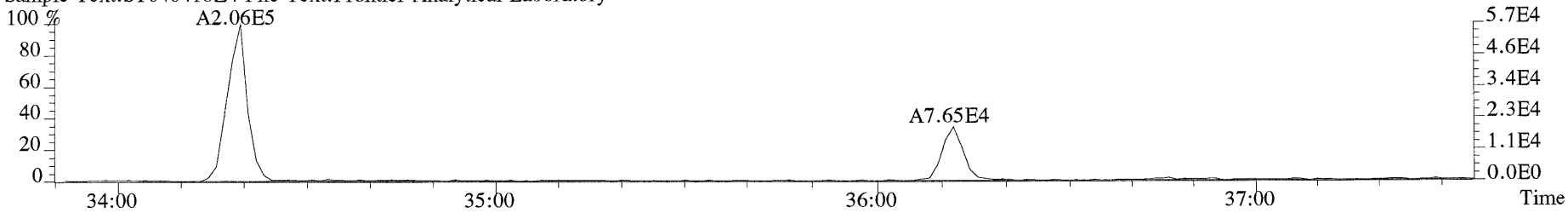
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



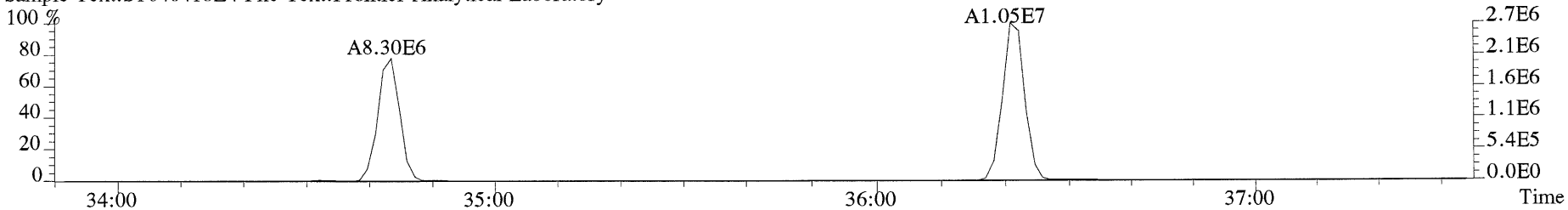
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



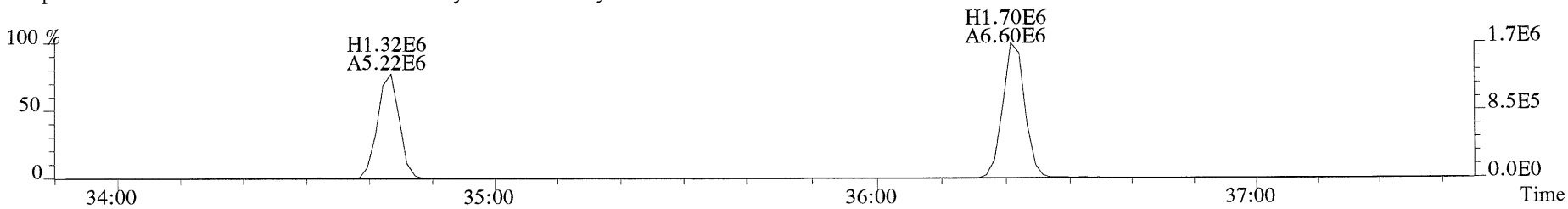
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



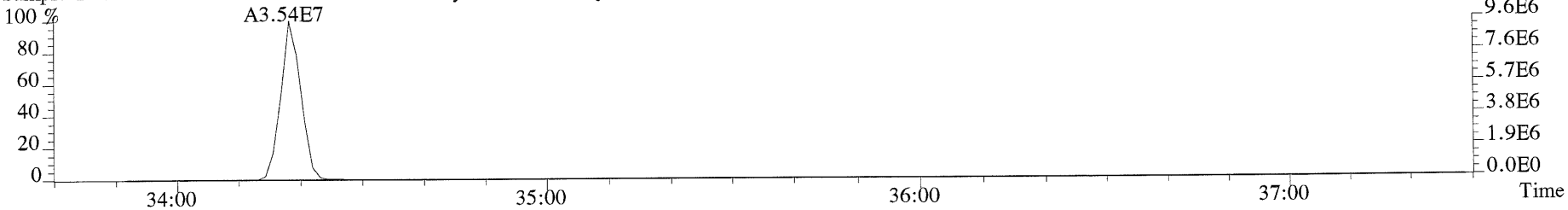
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



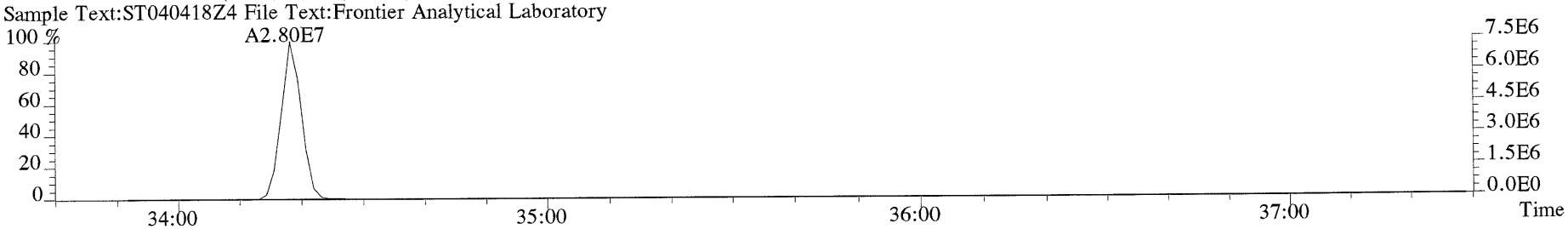
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



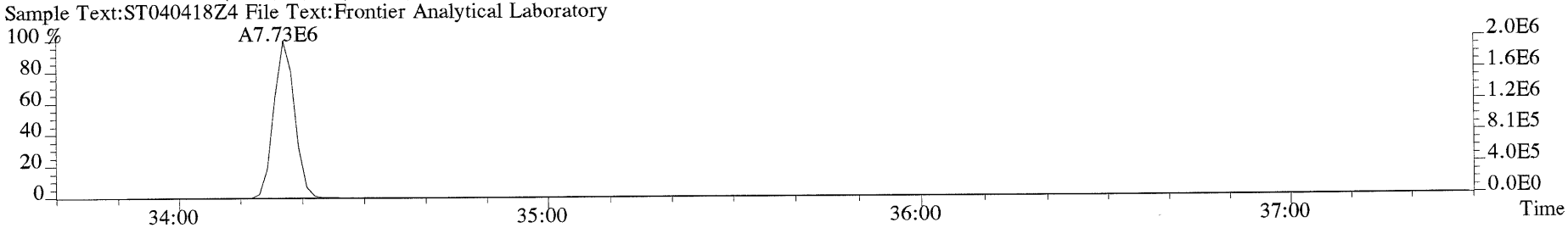
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



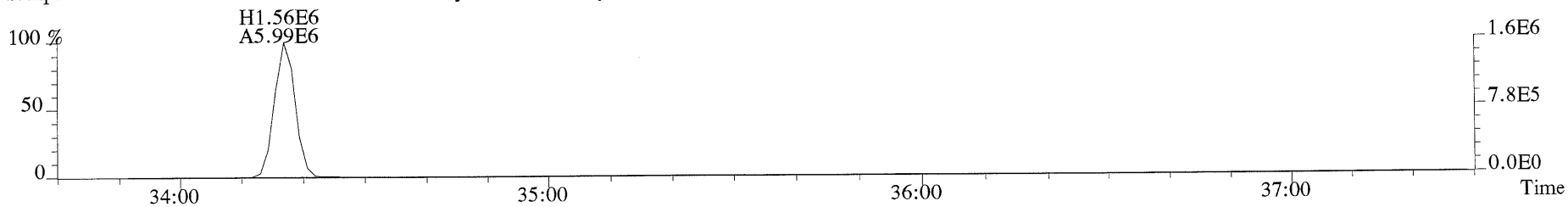
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



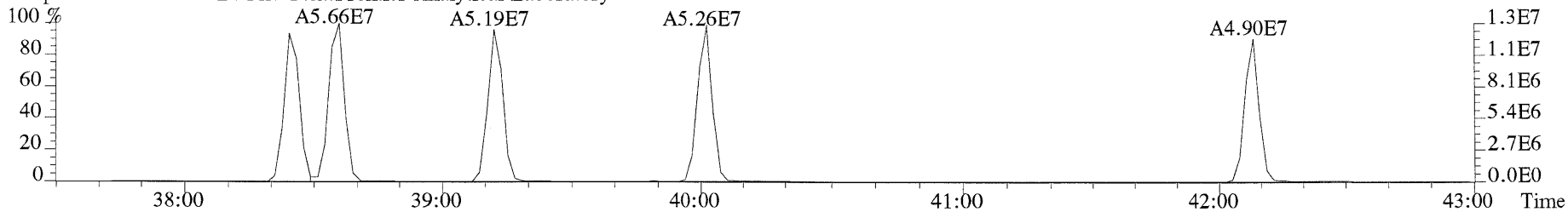
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



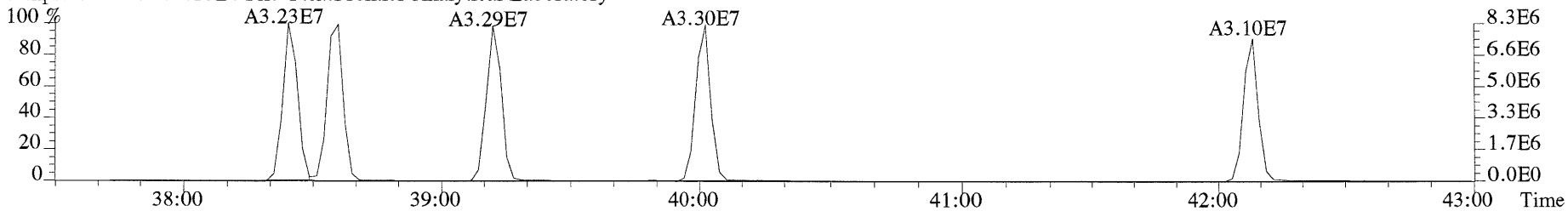
File:04APR18Z #1-182 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



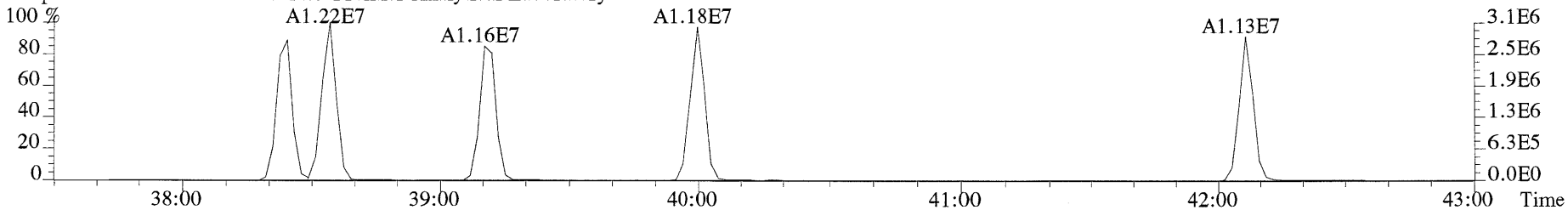
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



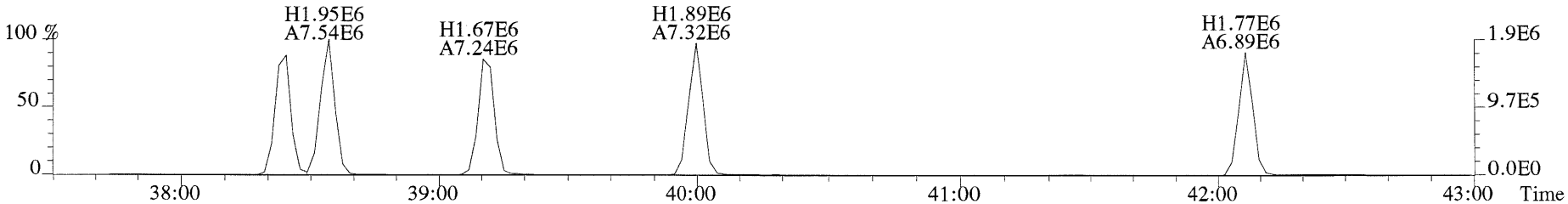
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



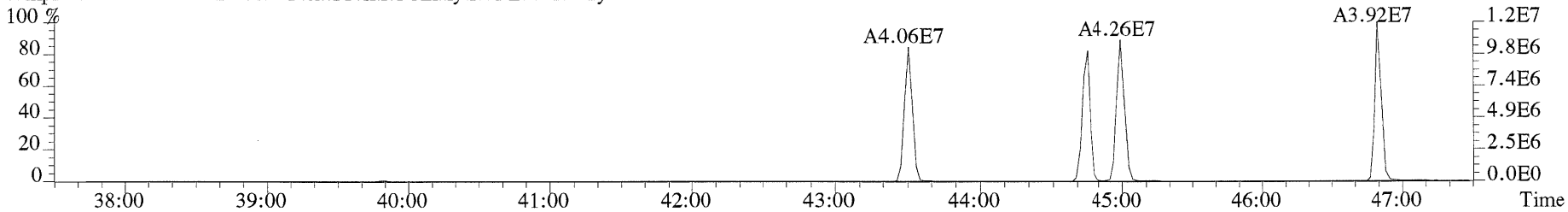
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



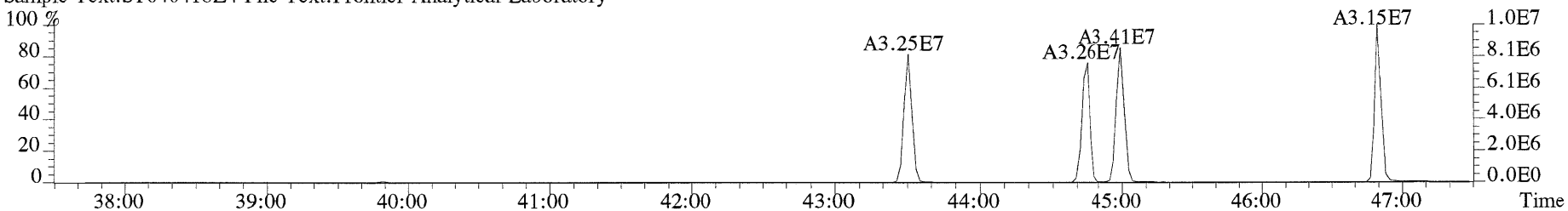
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



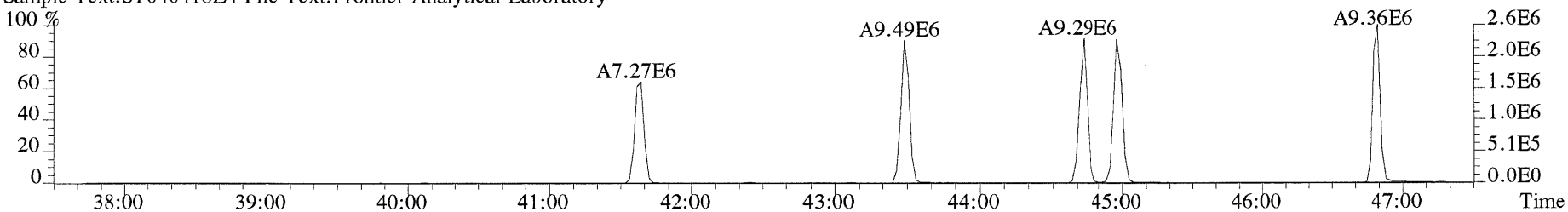
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



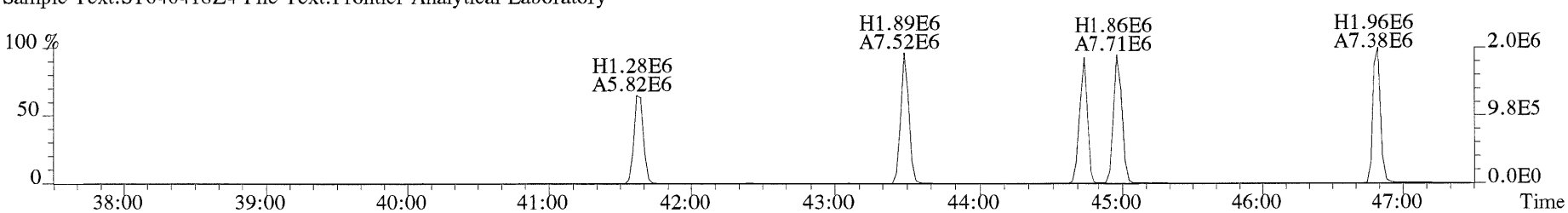
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



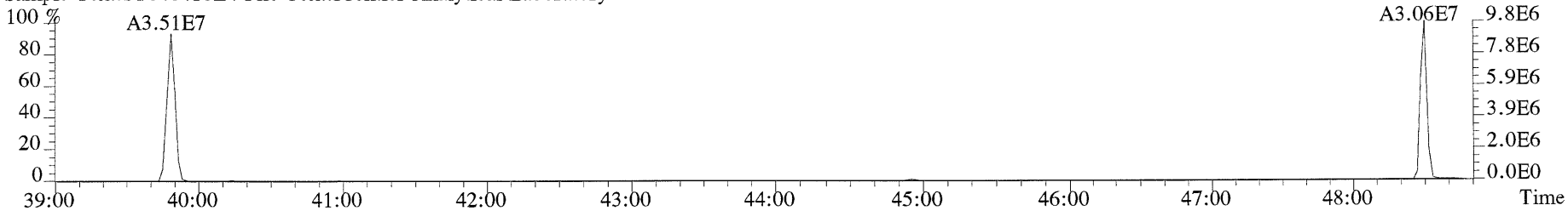
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



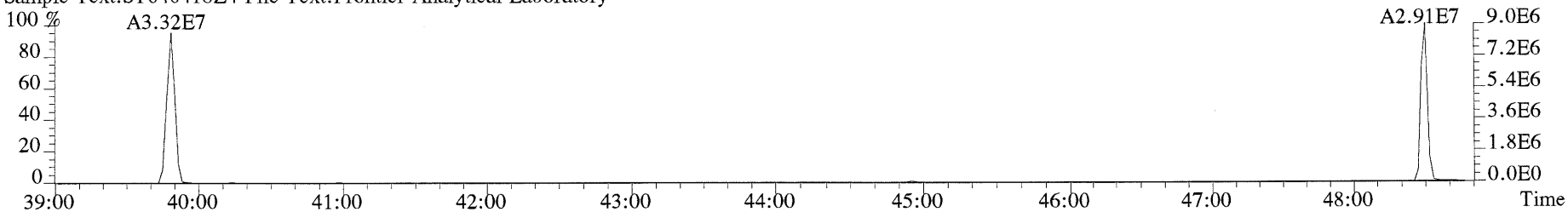
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



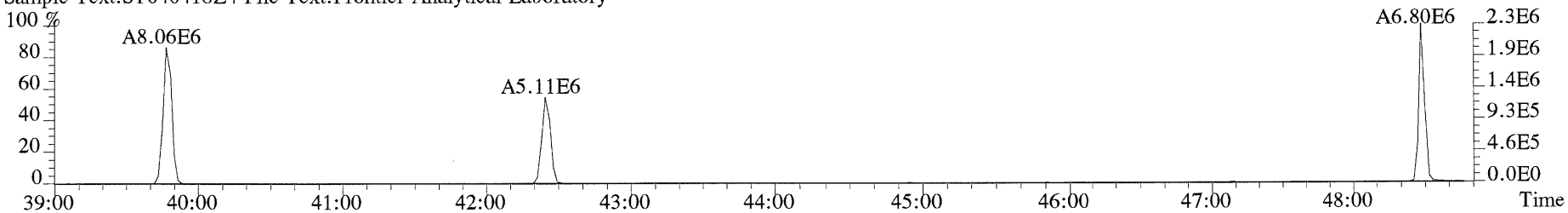
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



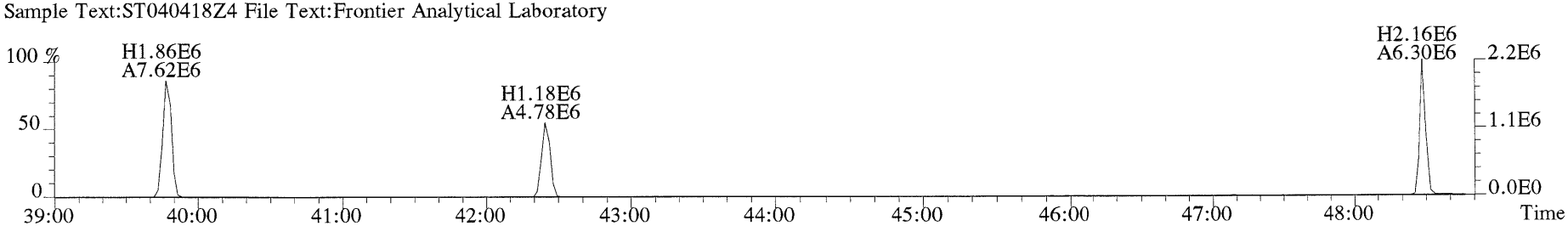
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



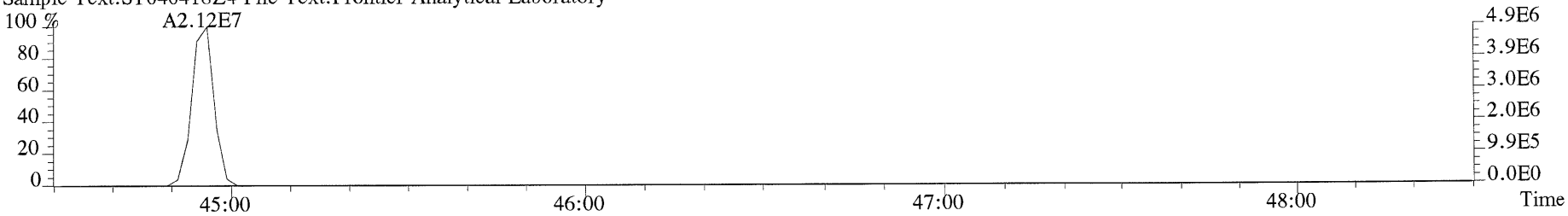
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



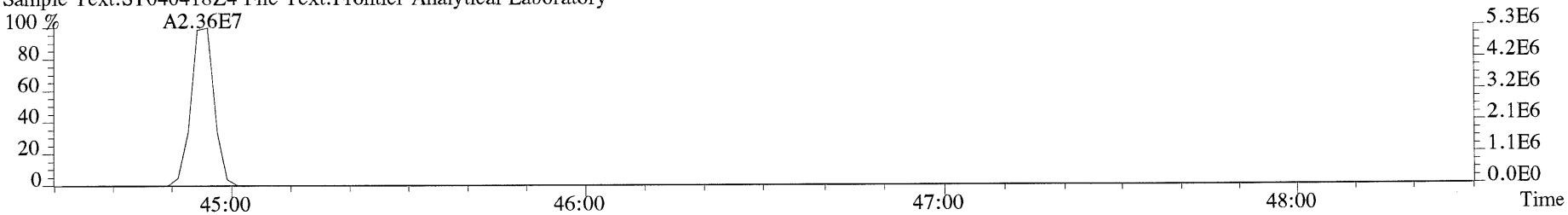
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



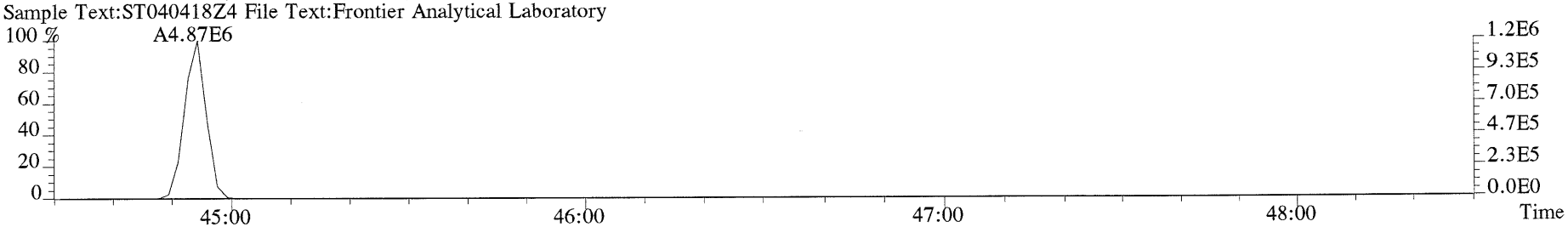
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



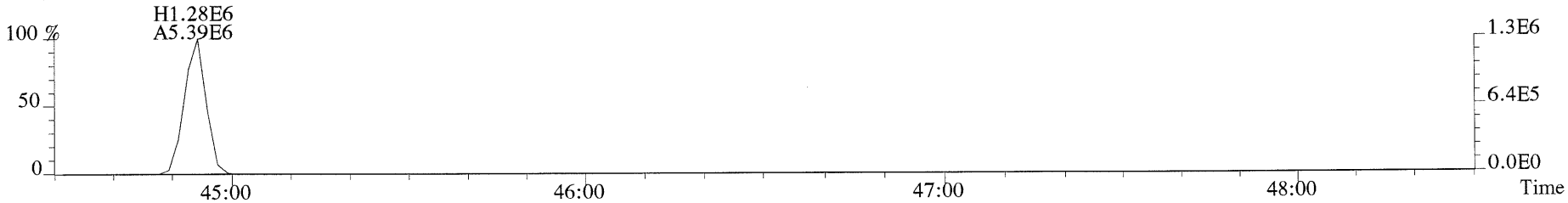
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



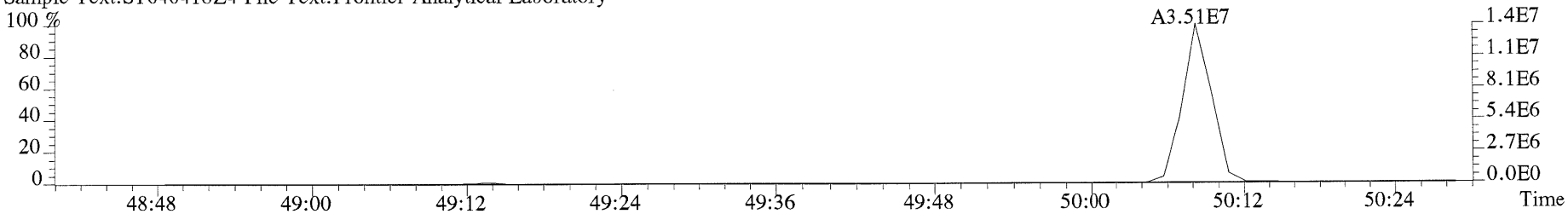
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



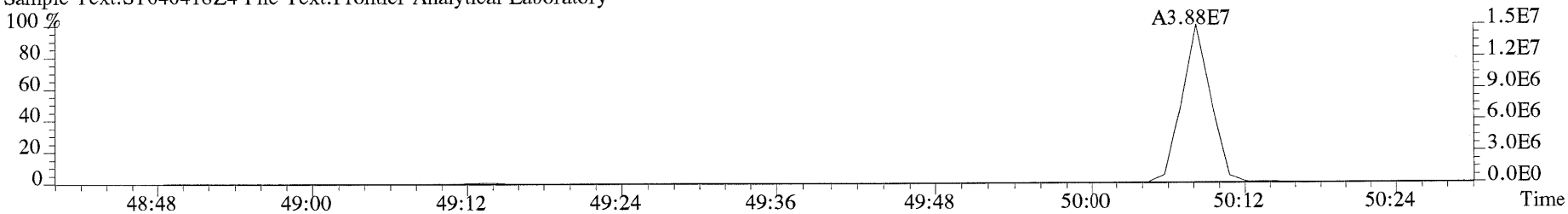
File:04APR18Z #1-404 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



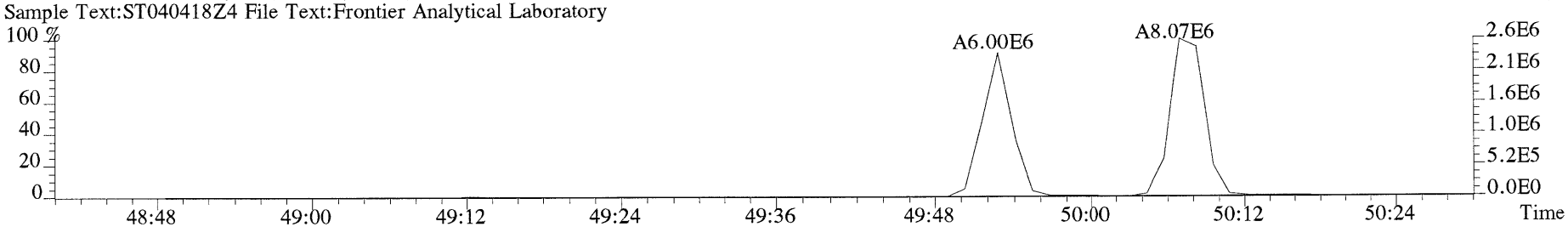
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



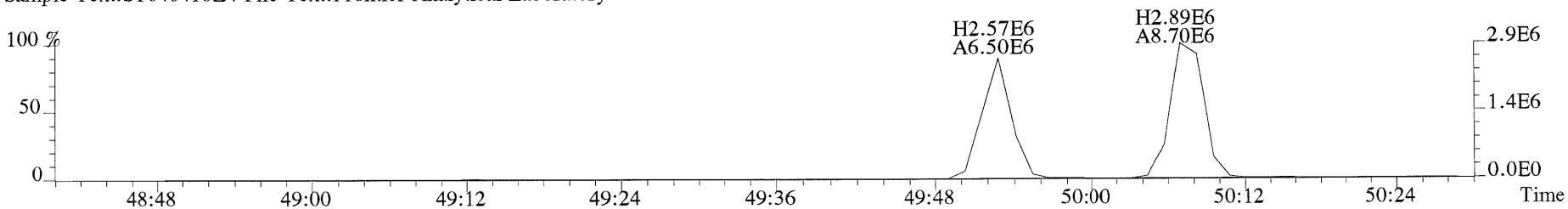
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



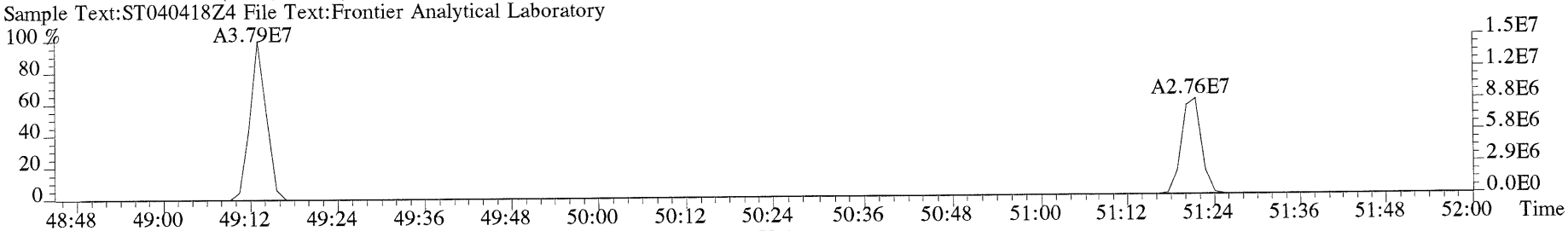
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



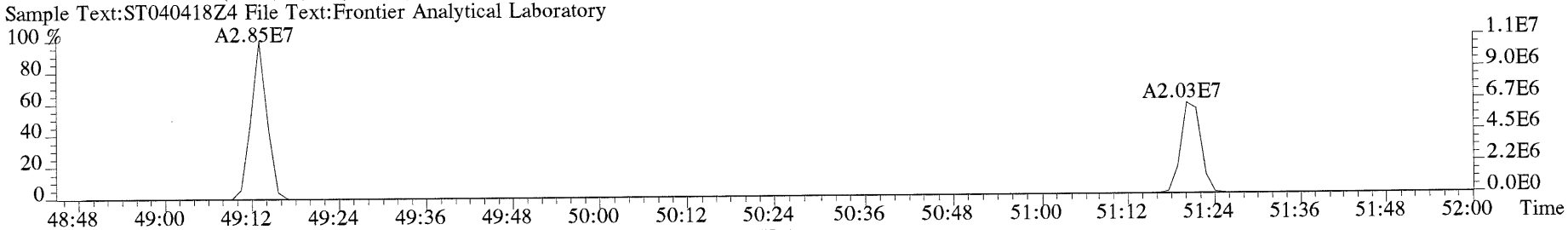
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



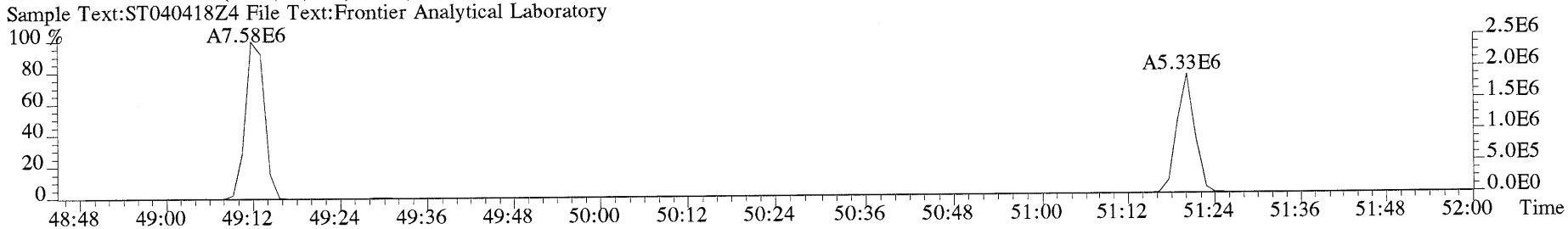
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



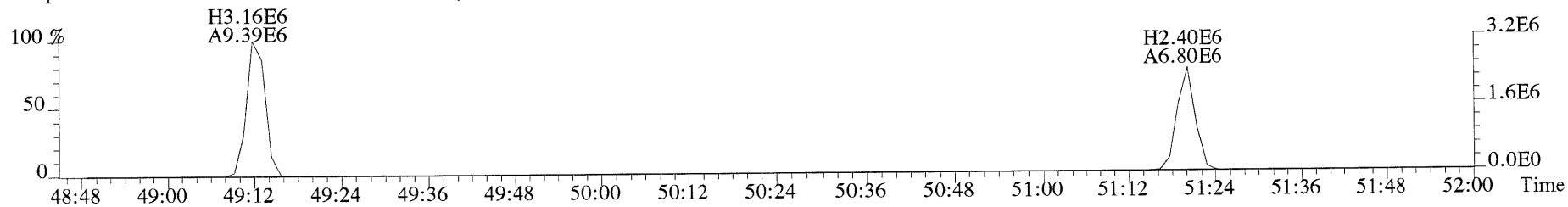
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



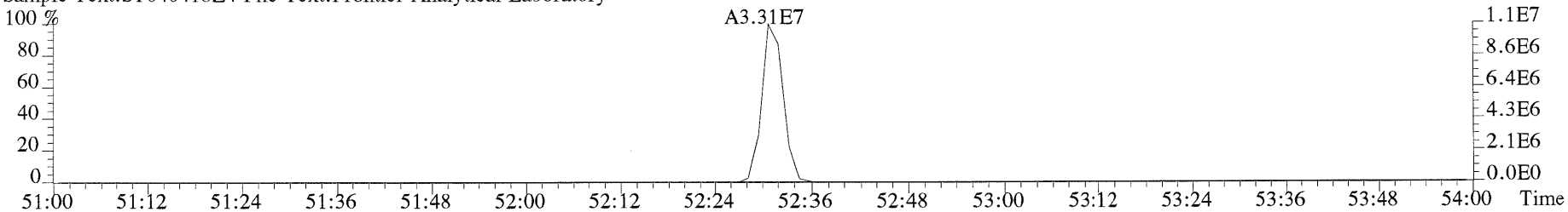
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



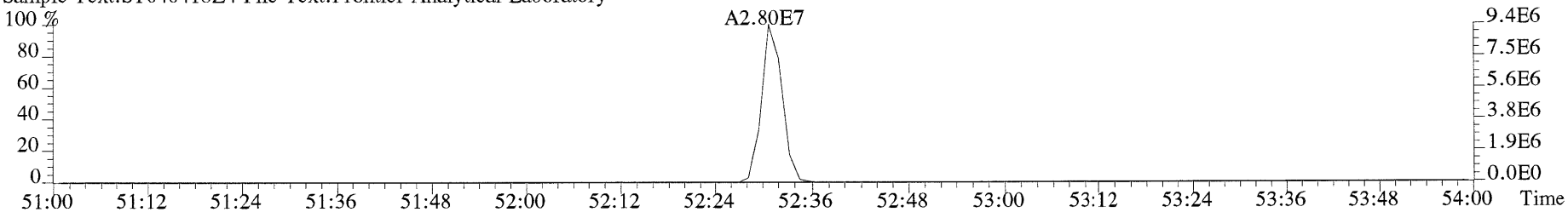
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



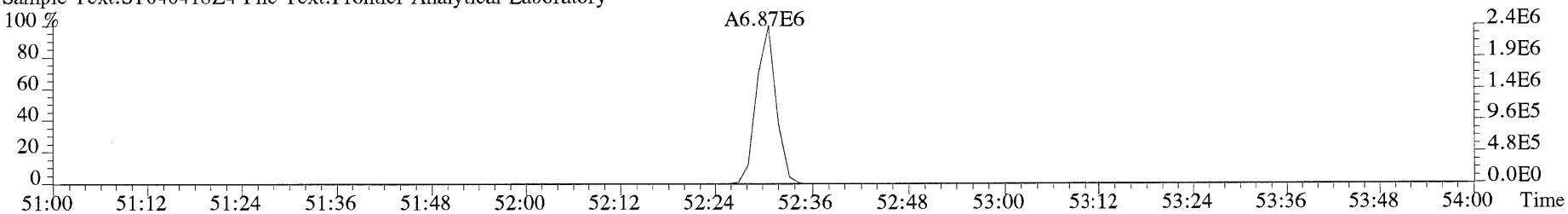
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



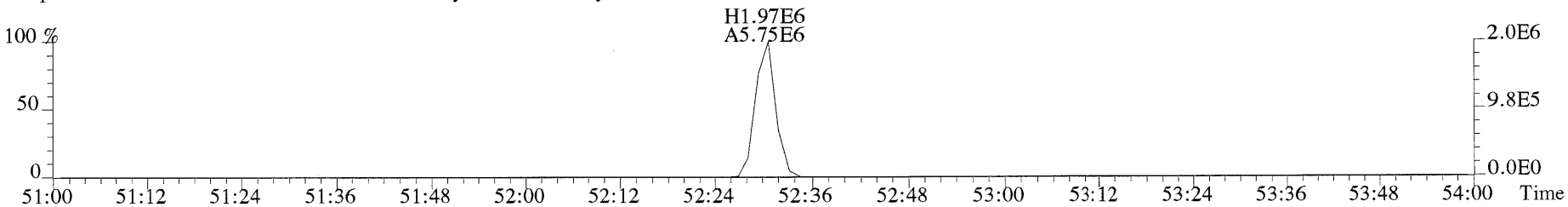
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



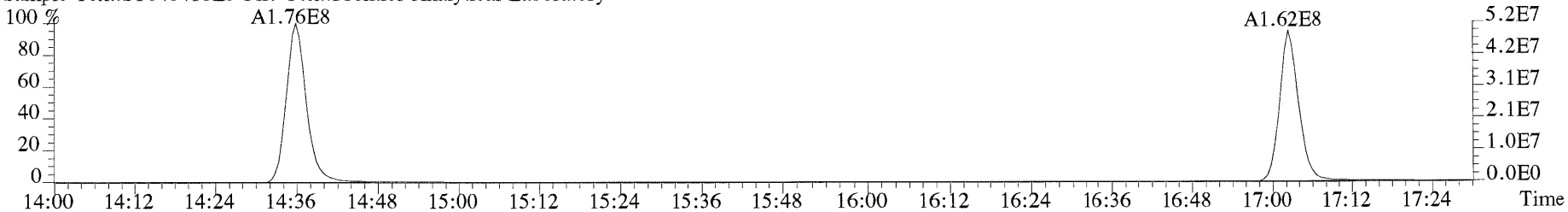
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



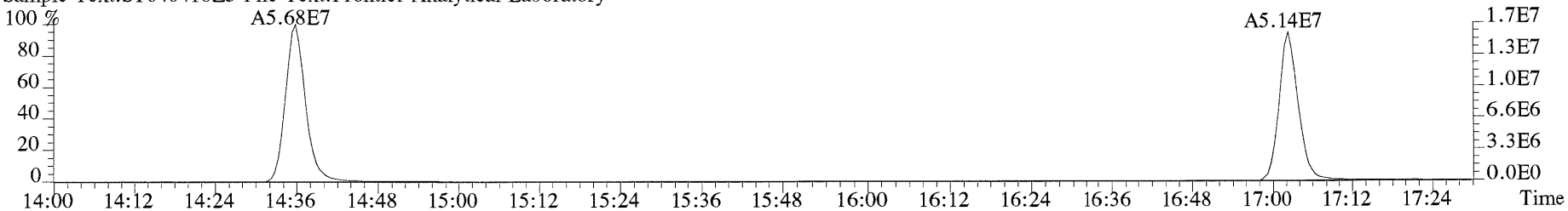
File:04APR18Z #1-314 Acq: 4-APR-2018 20:34:03 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z4 File Text:Frontier Analytical Laboratory



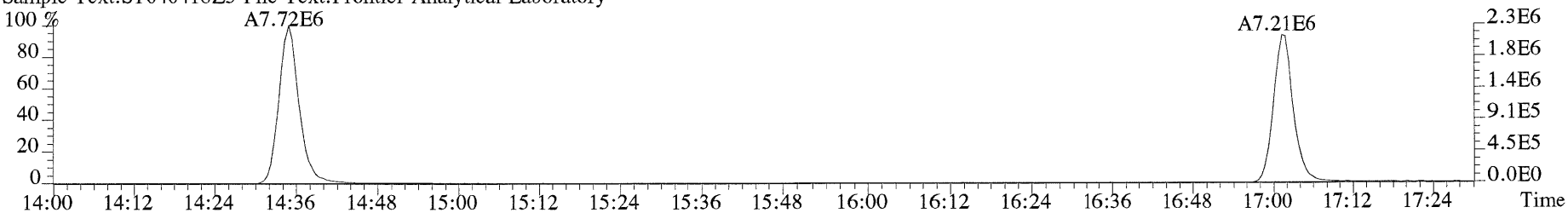
File:04APR18Z #1-783 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



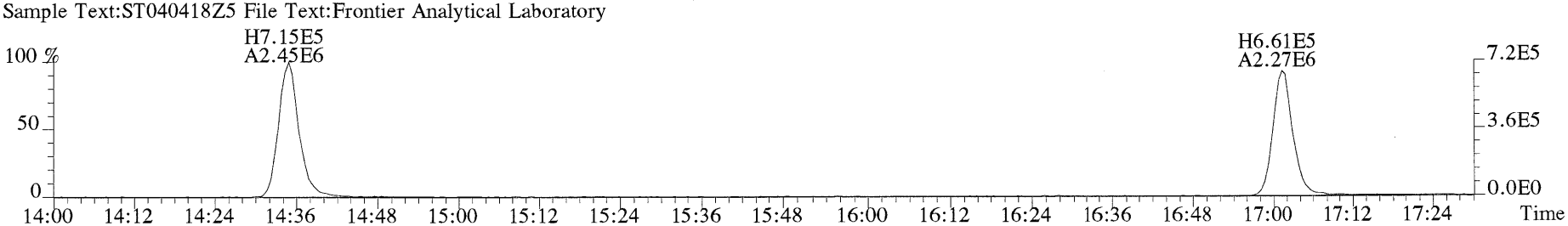
File:04APR18Z #1-783 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



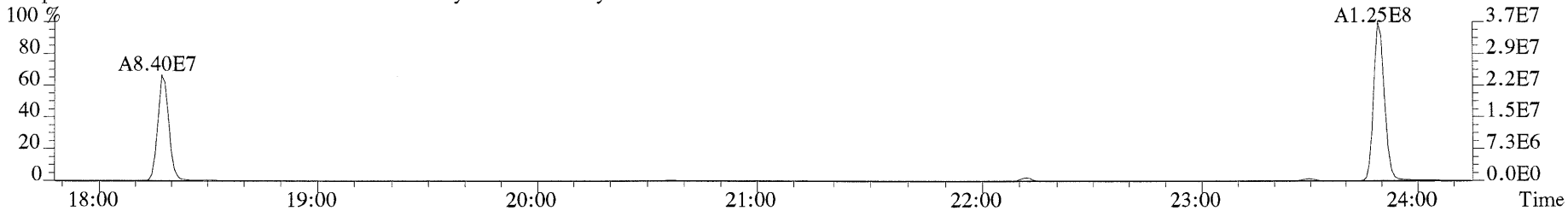
File:04APR18Z #1-783 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



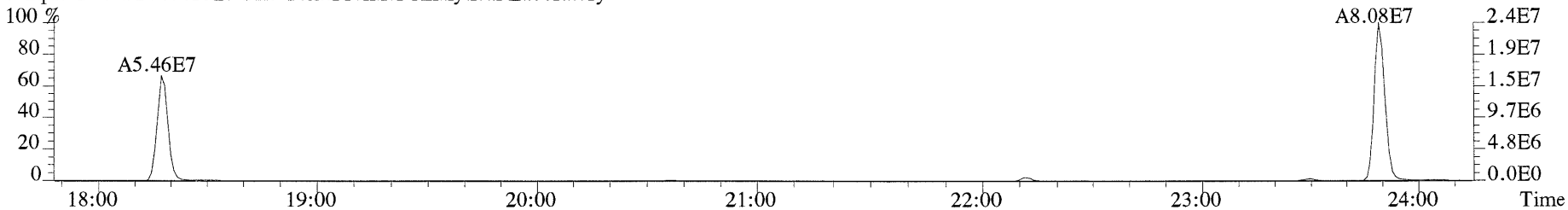
File:04APR18Z #1-783 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



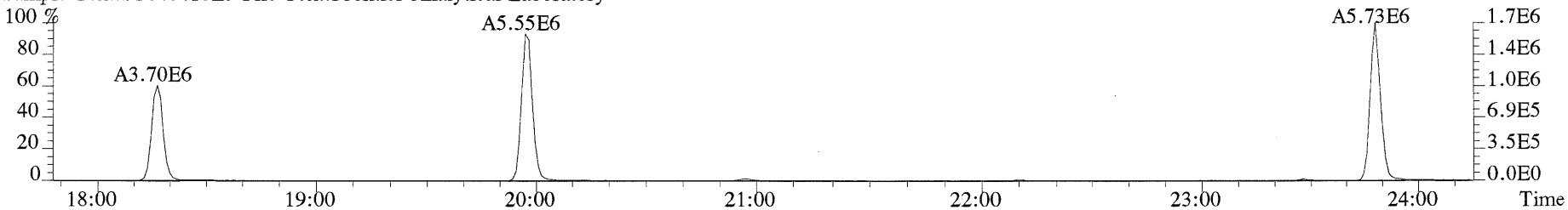
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



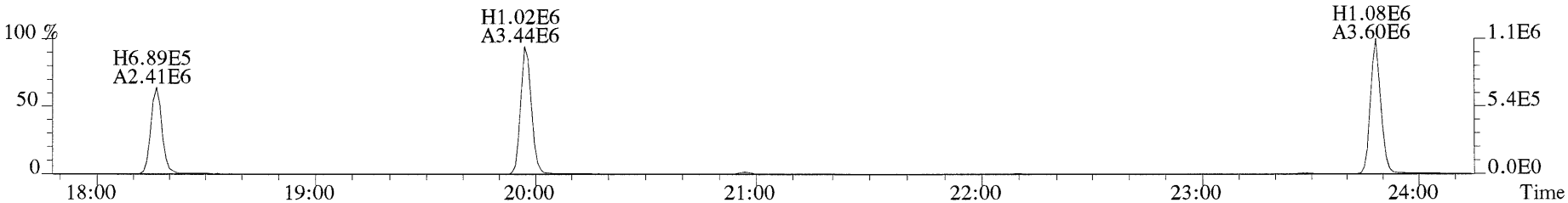
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



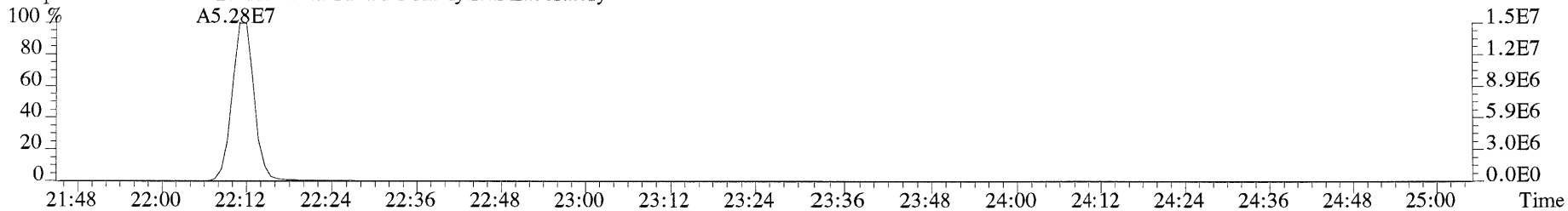
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



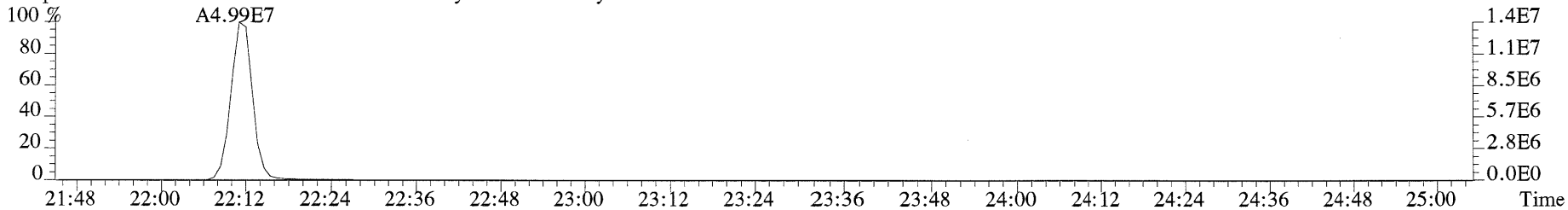
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



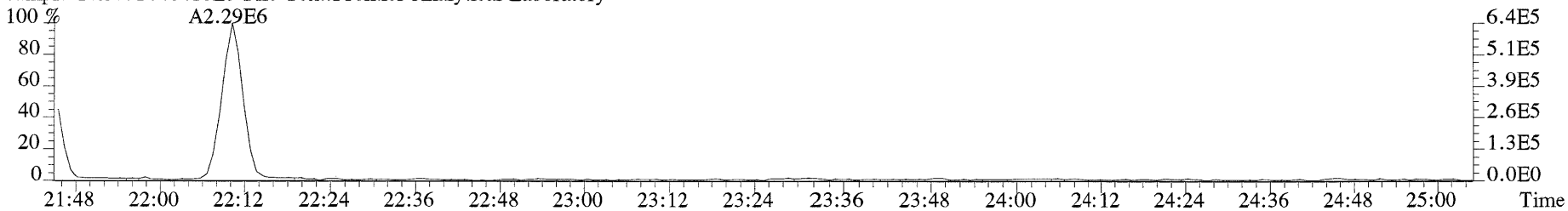
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



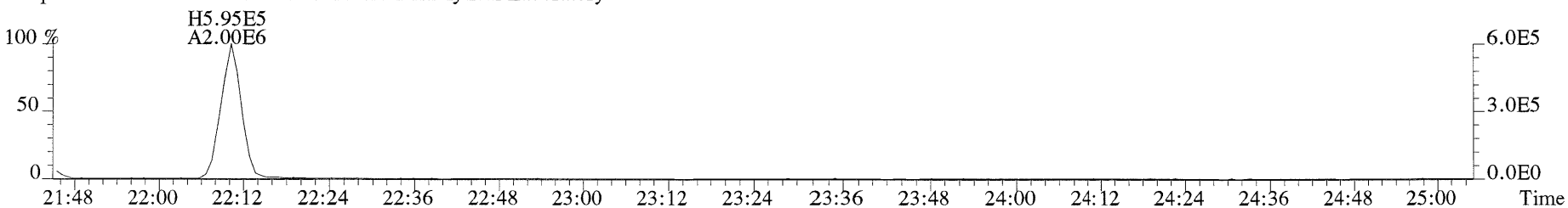
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



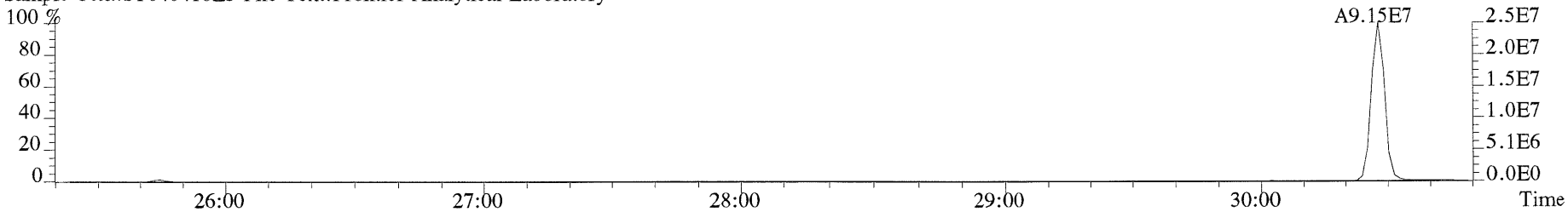
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



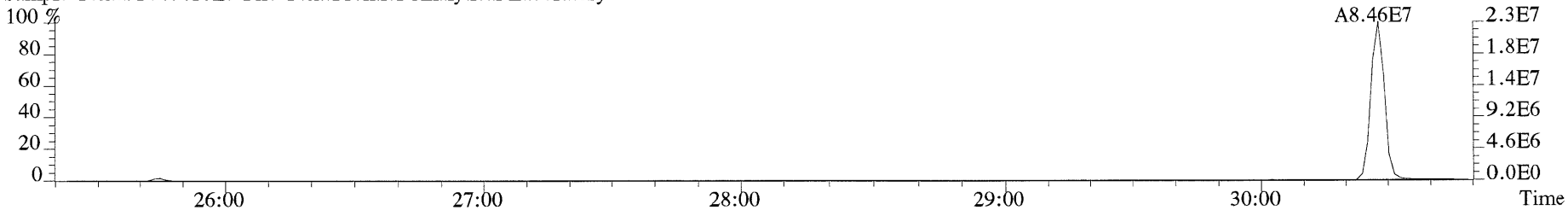
File:04APR18Z #1-521 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



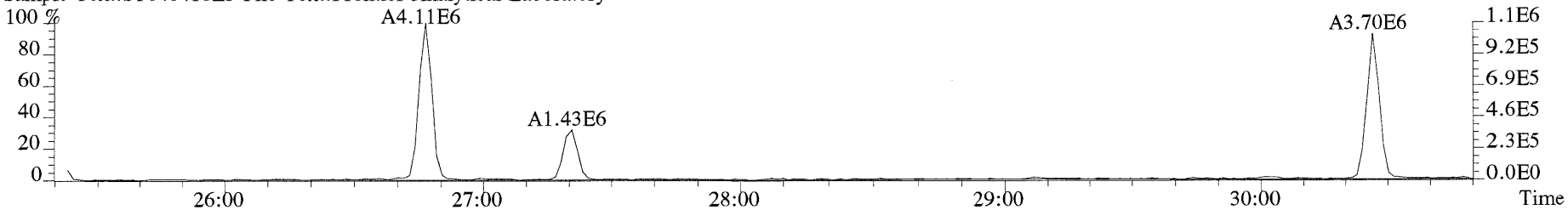
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



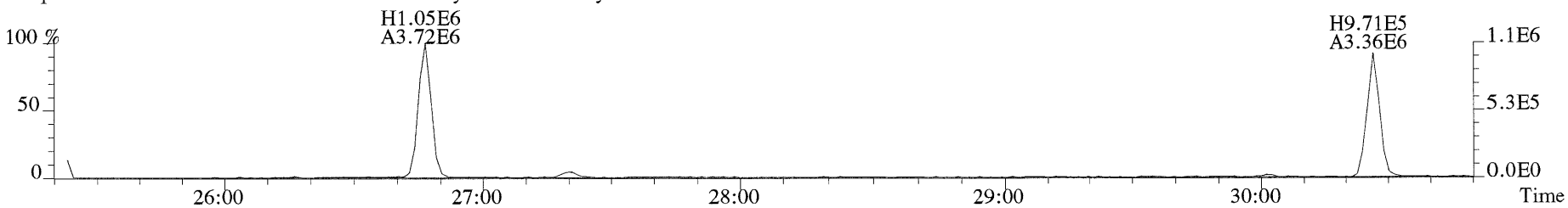
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



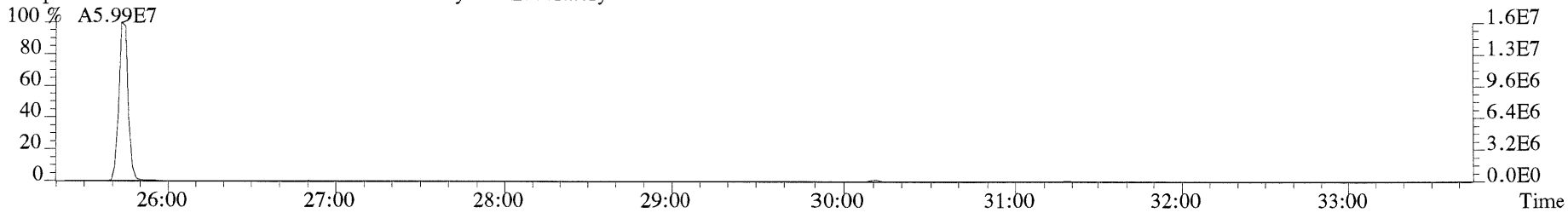
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



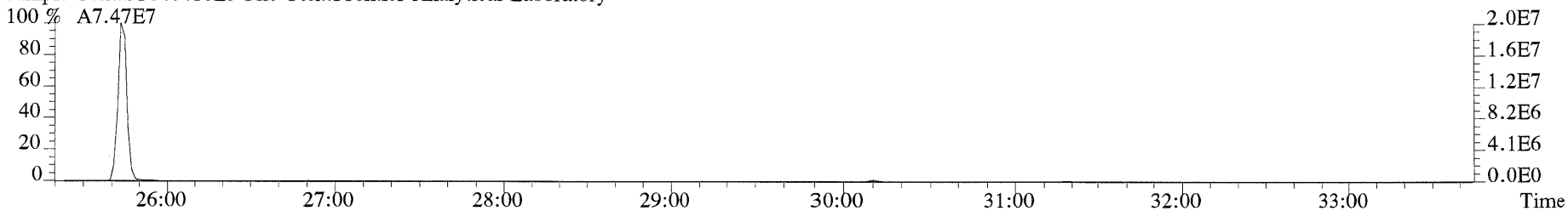
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



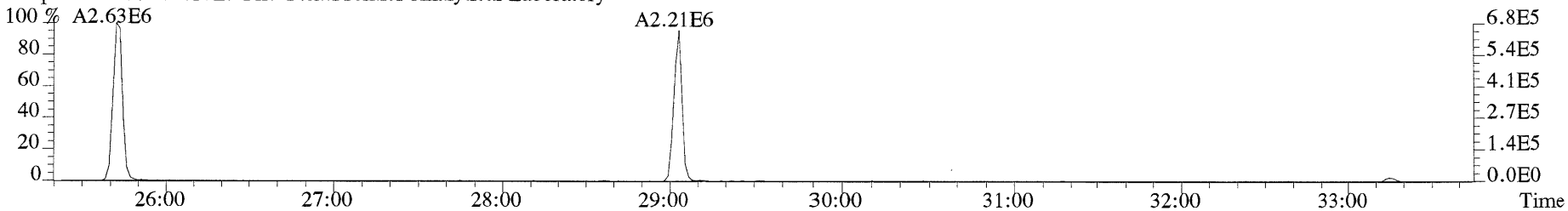
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



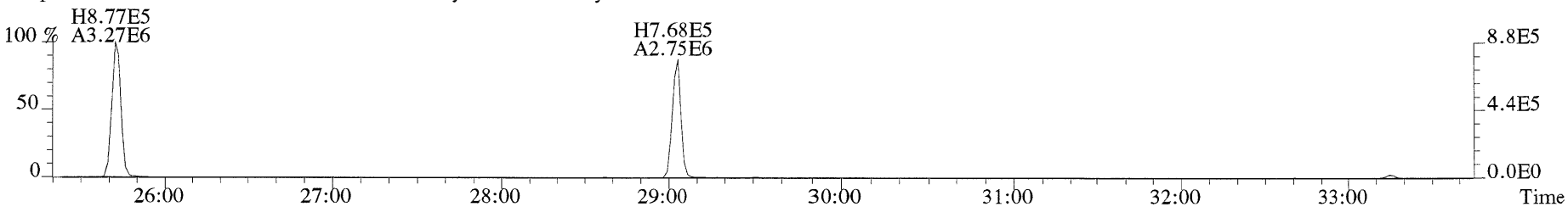
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



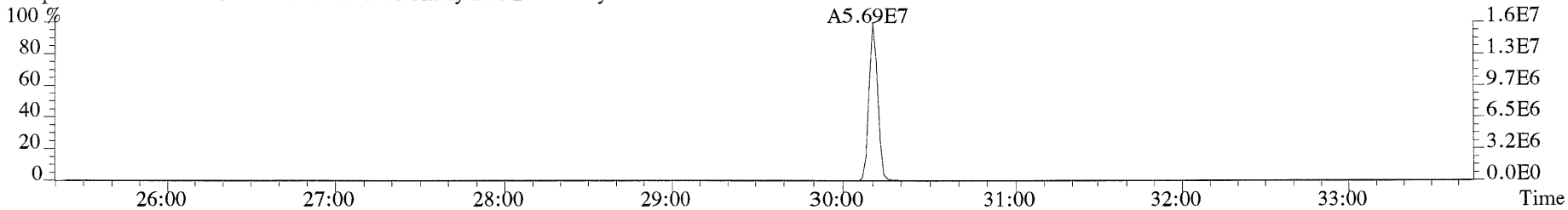
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



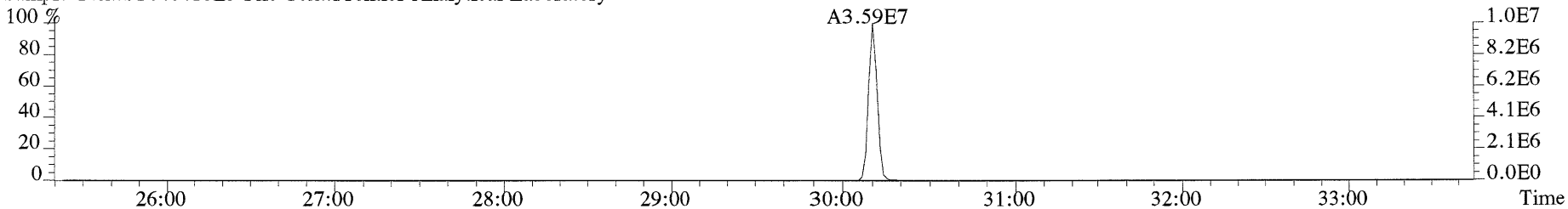
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



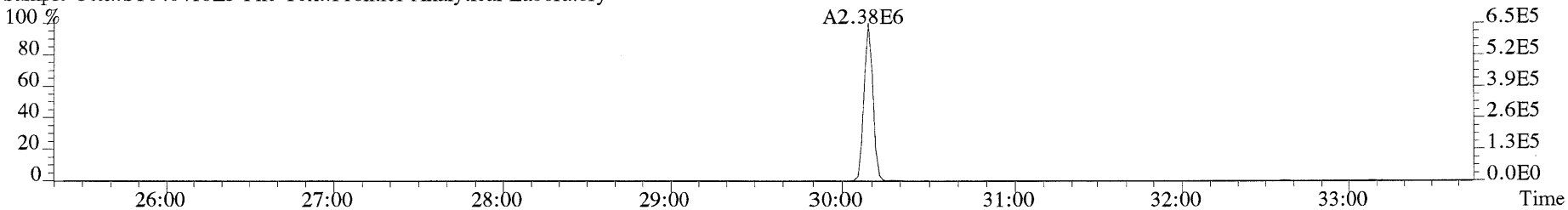
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



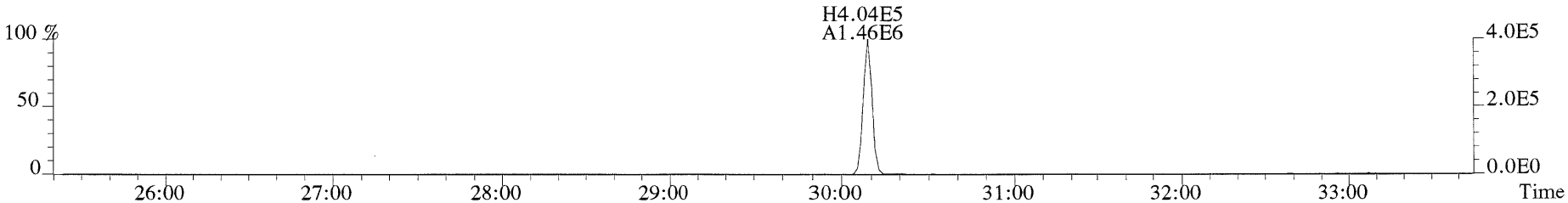
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



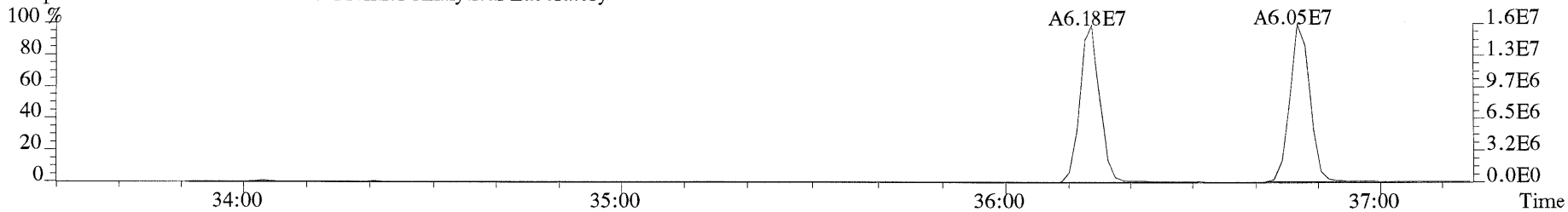
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



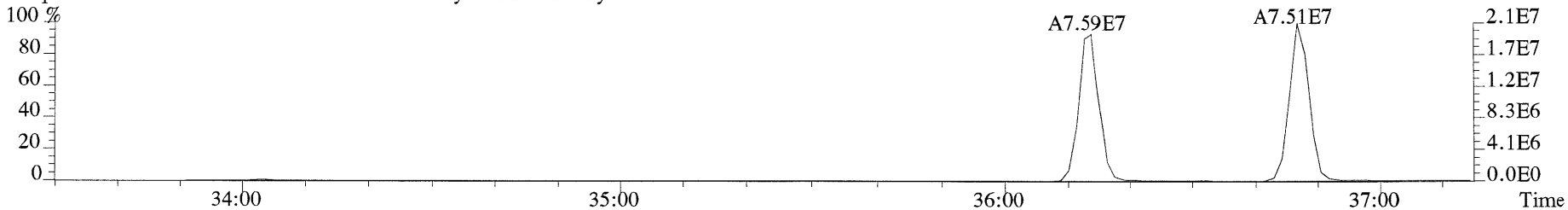
File:04APR18Z #1-401 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



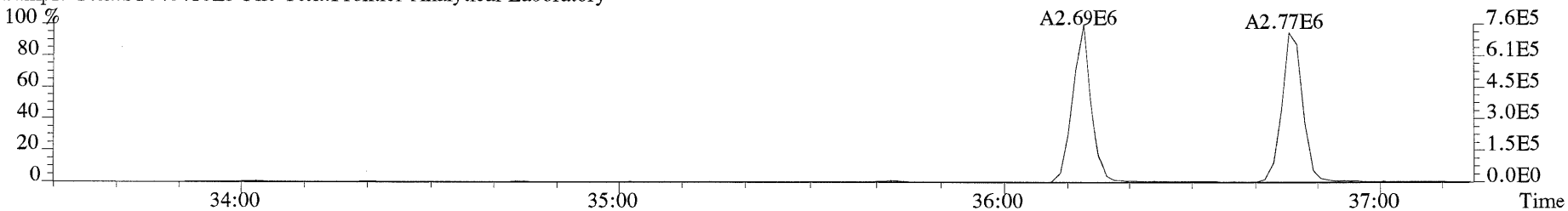
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



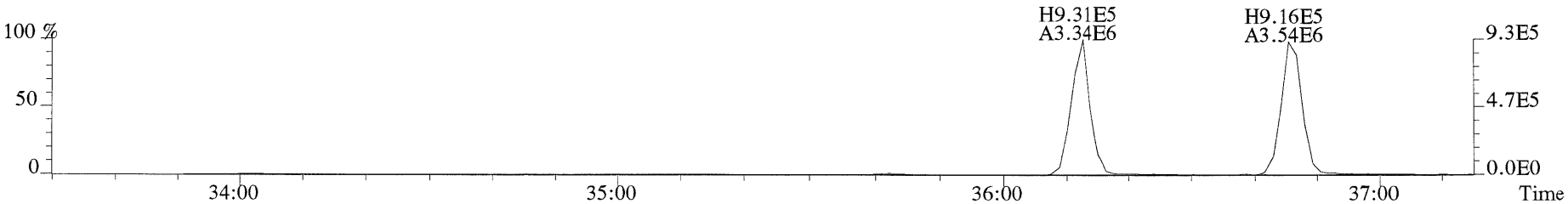
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



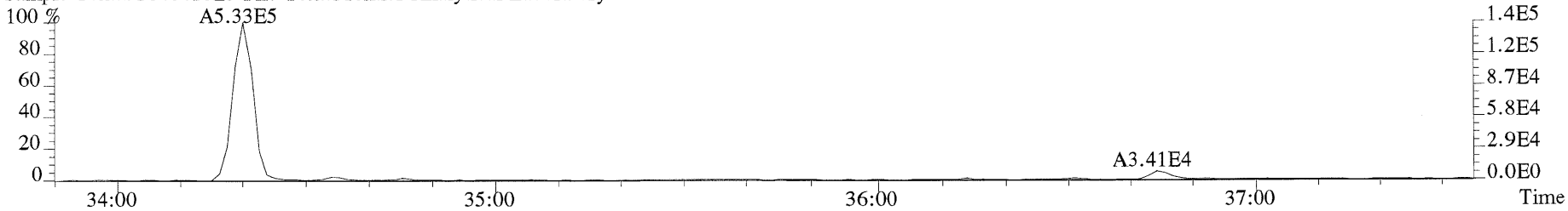
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



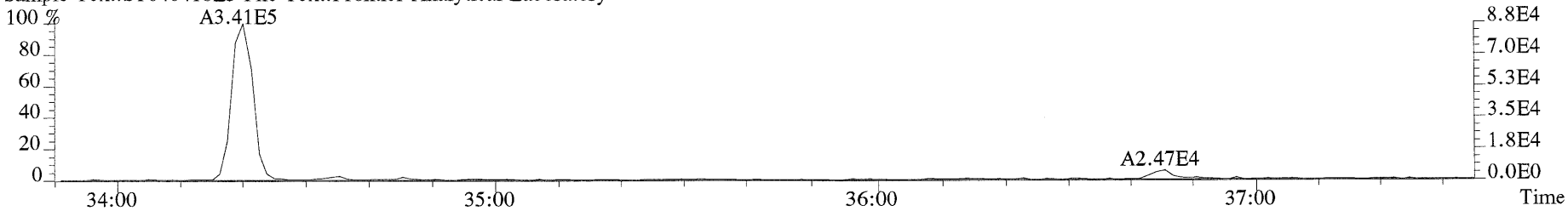
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



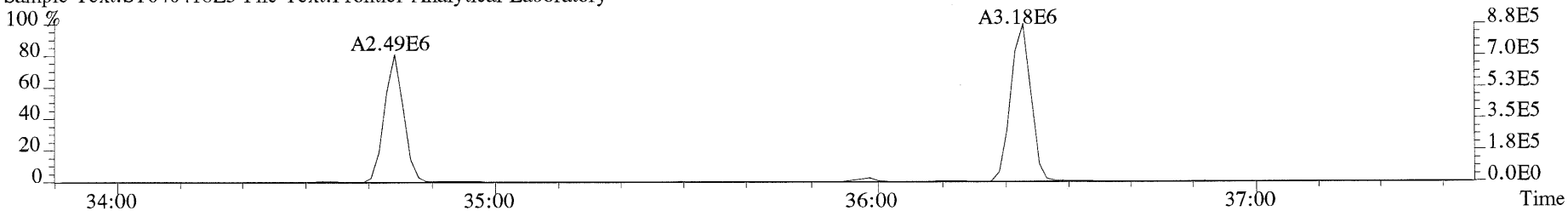
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



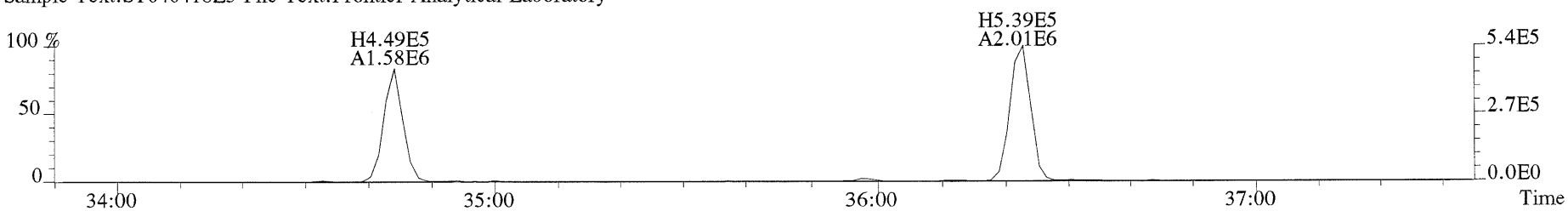
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



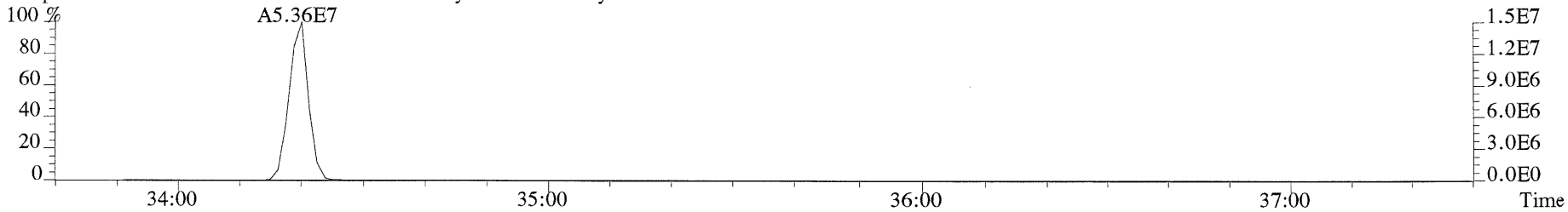
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



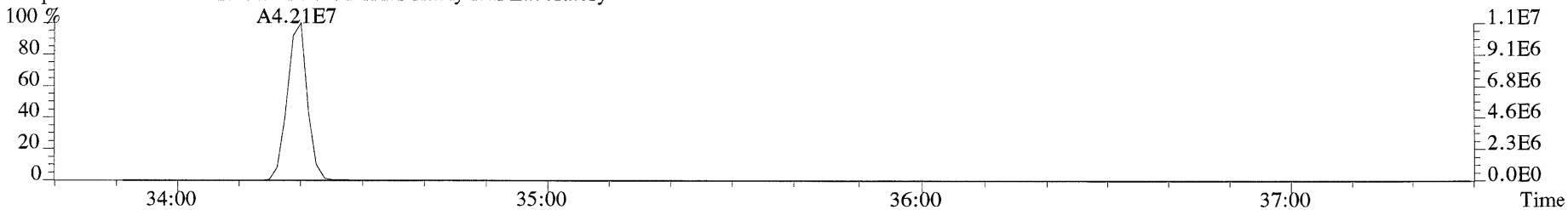
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



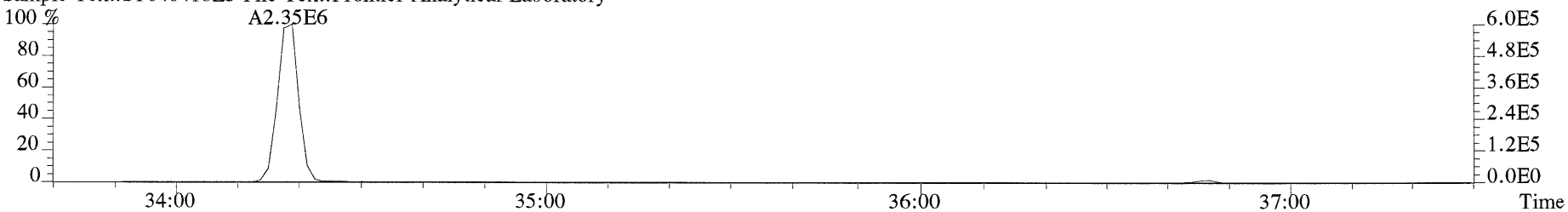
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



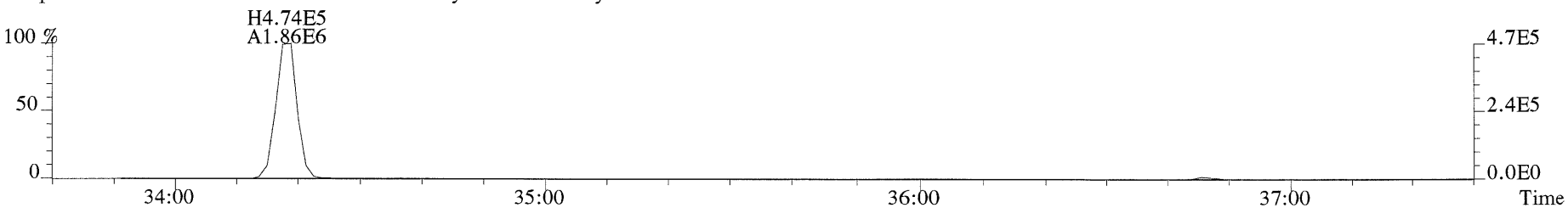
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



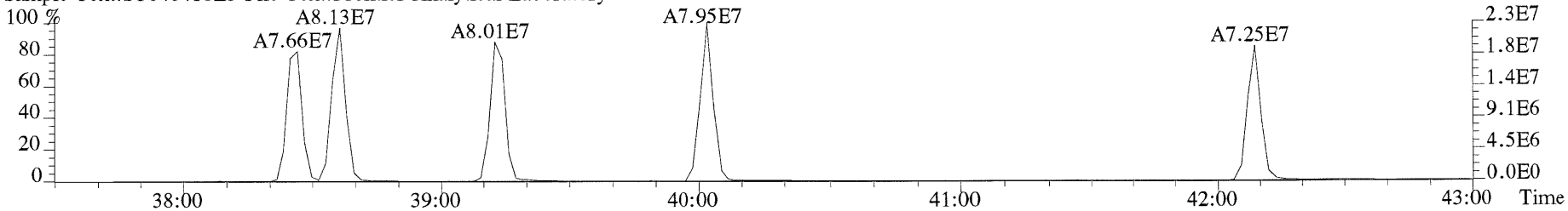
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



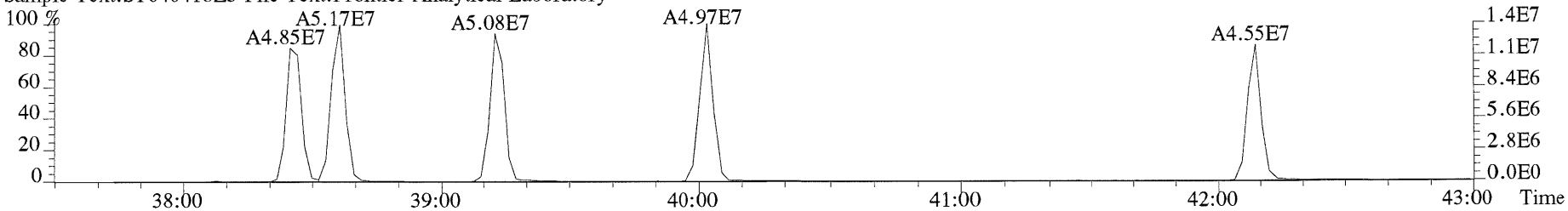
File:04APR18Z #1-183 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



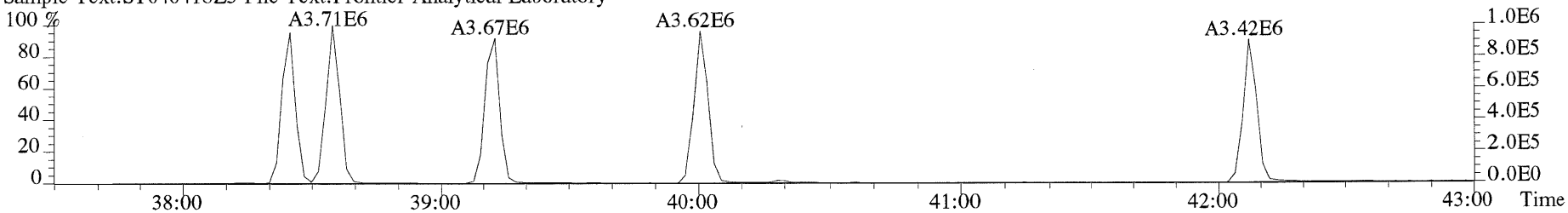
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



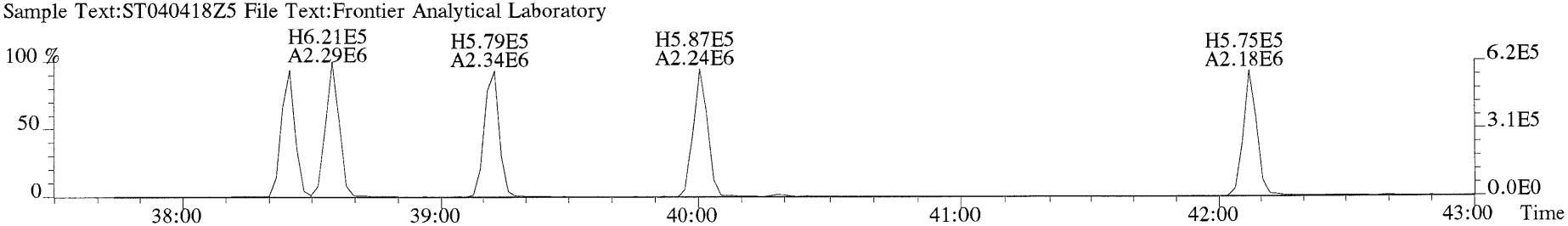
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



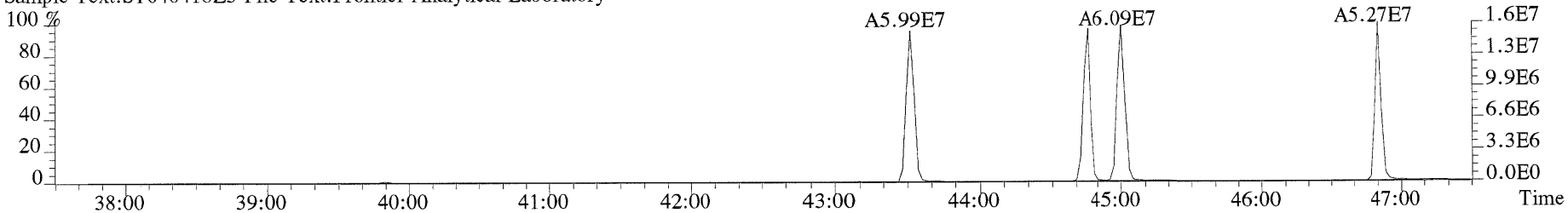
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



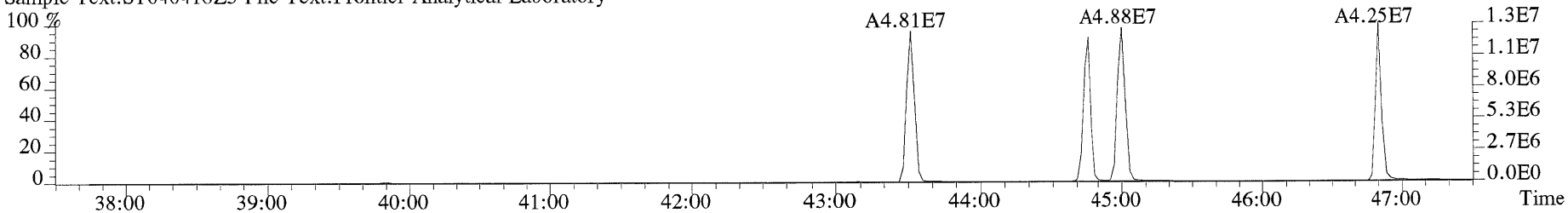
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



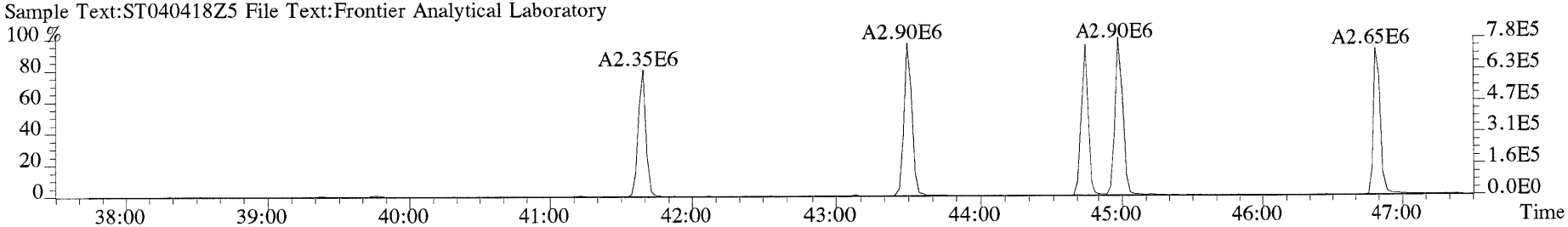
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



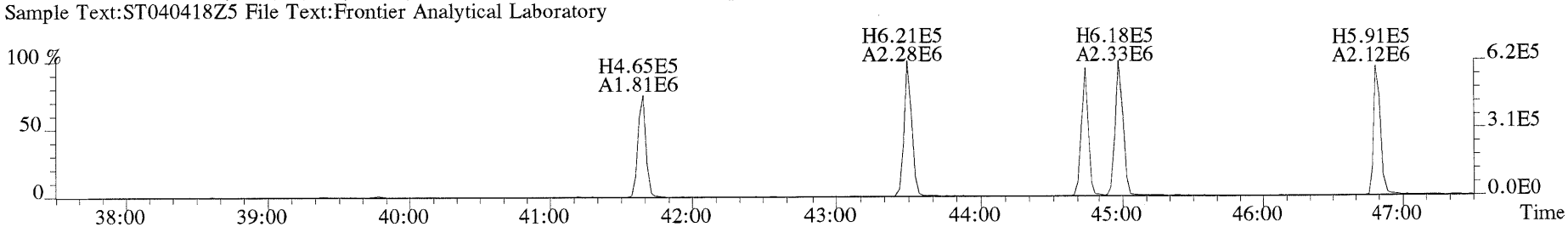
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



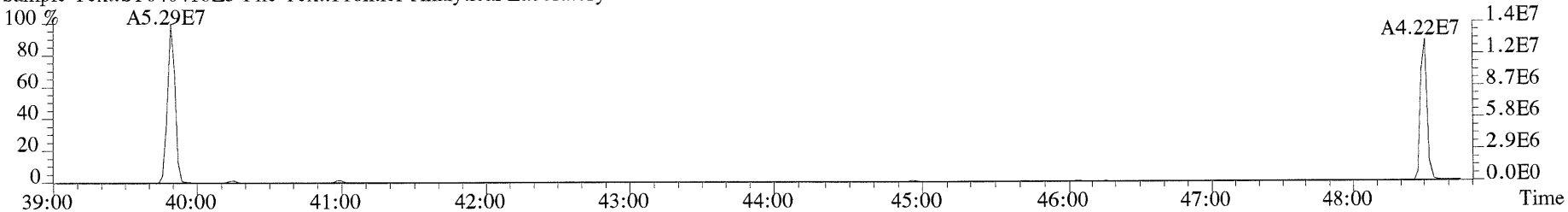
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



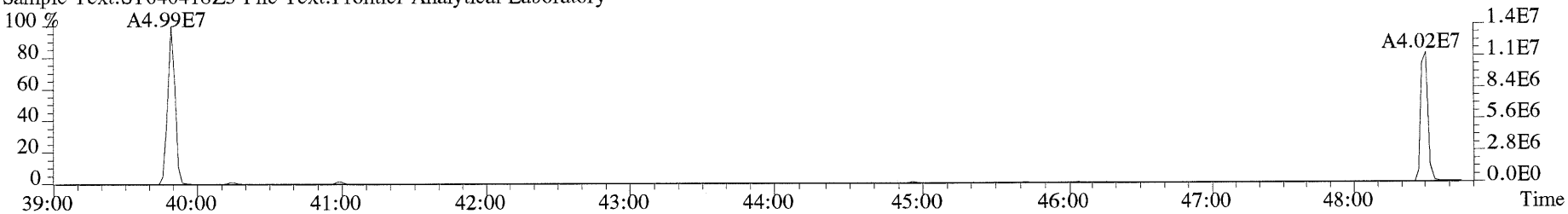
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



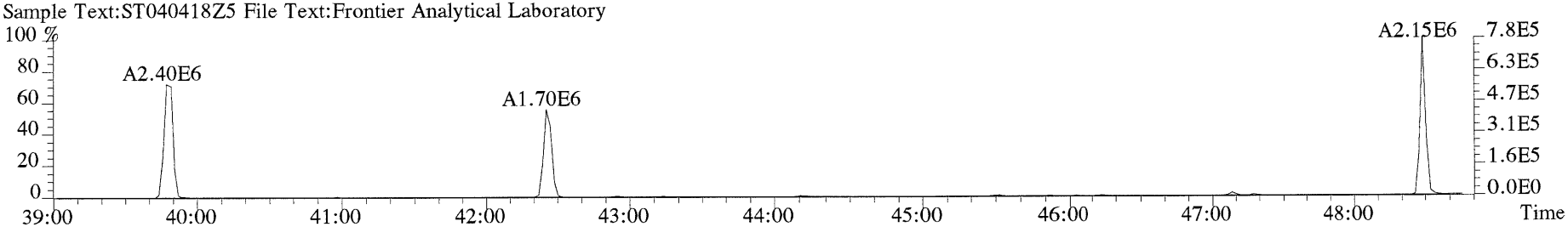
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



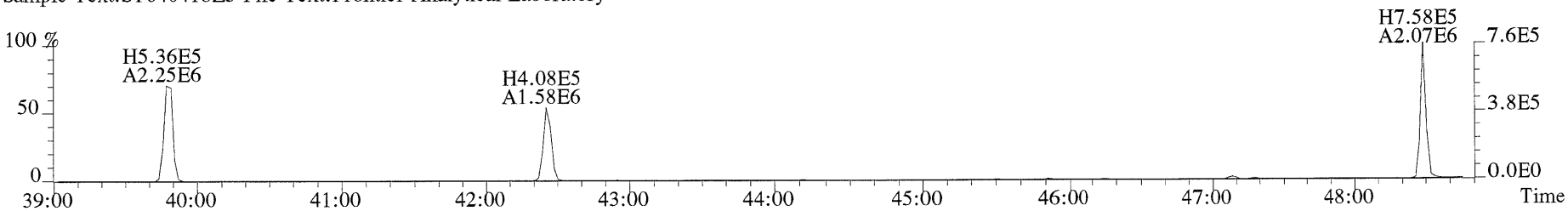
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



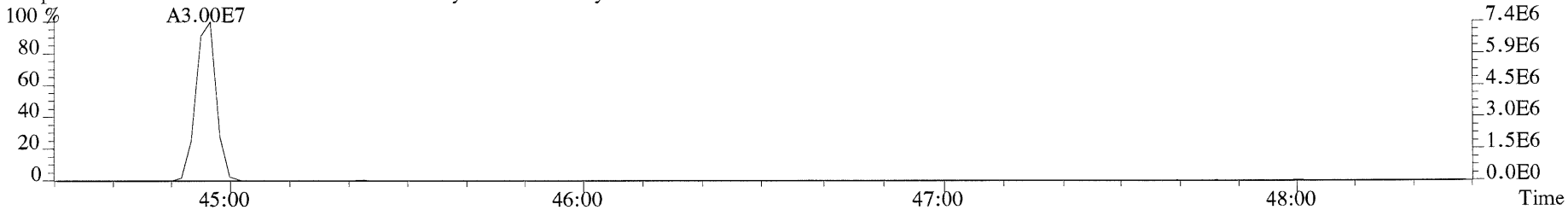
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



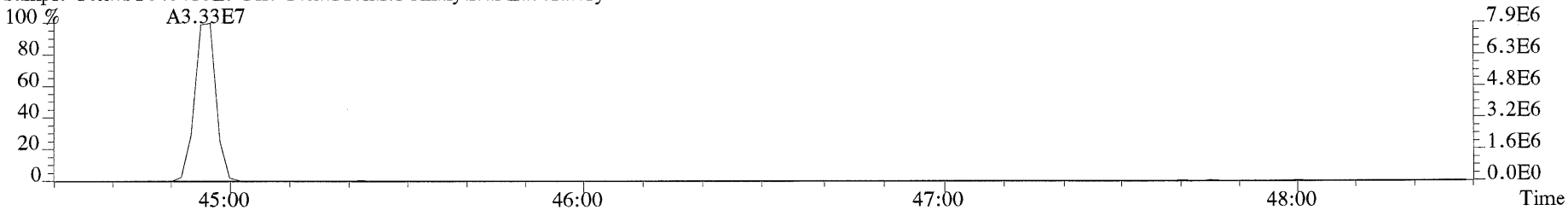
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



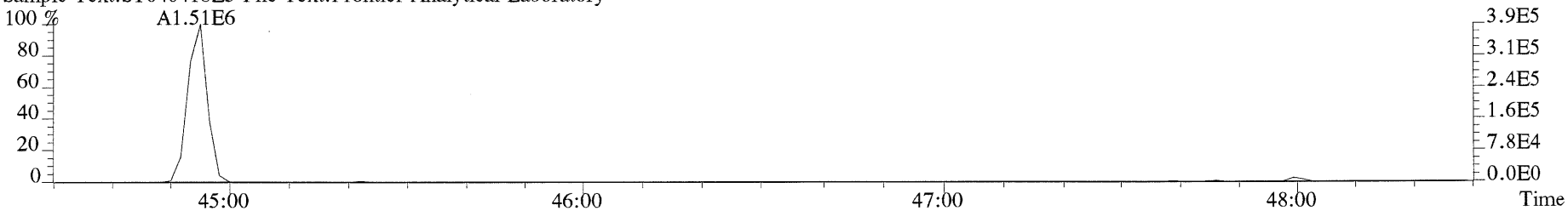
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



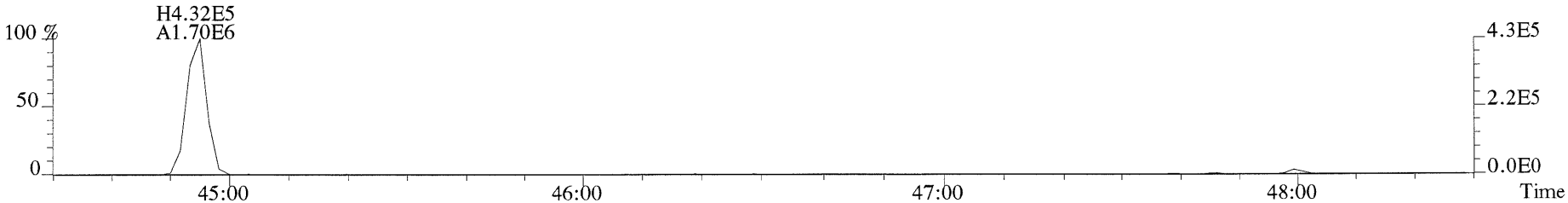
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



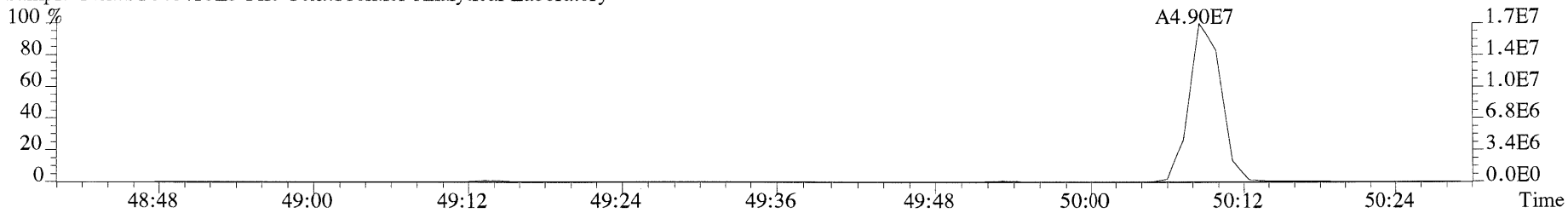
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



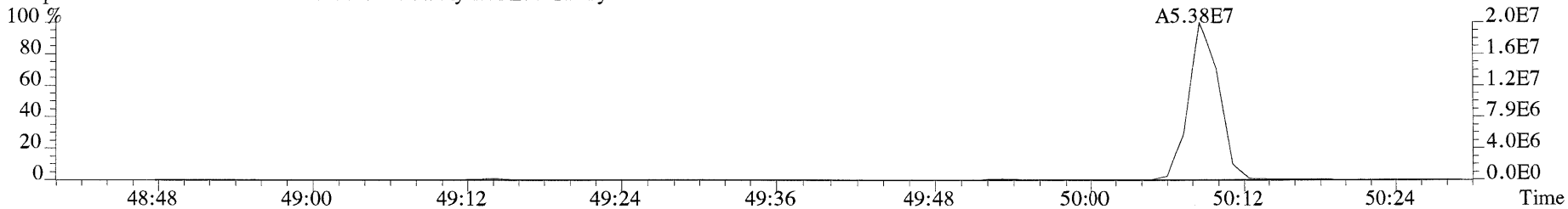
File:04APR18Z #1-403 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



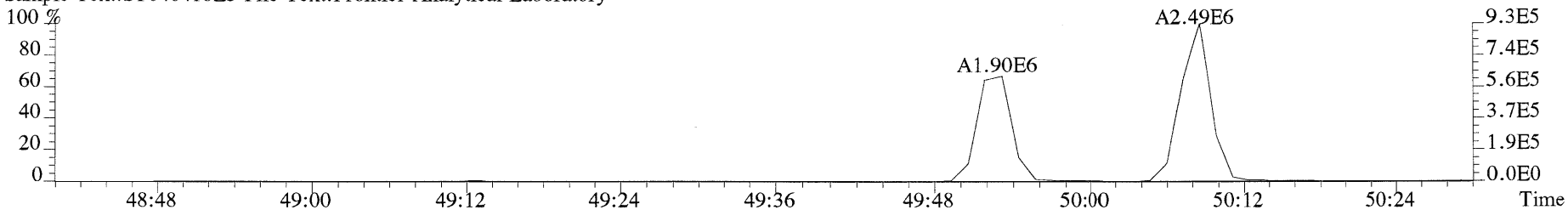
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



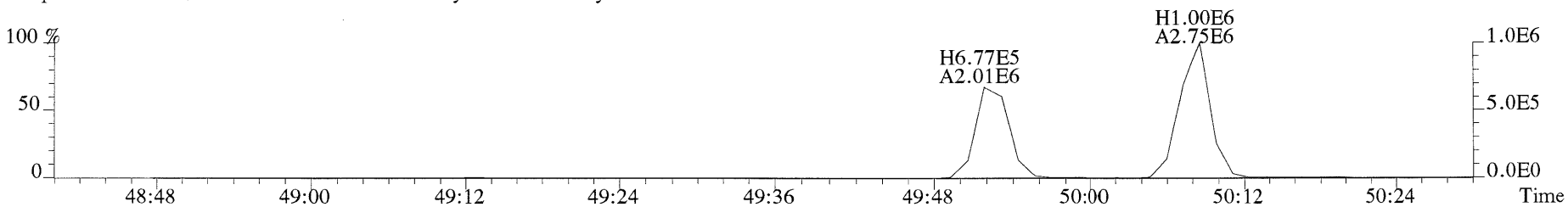
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



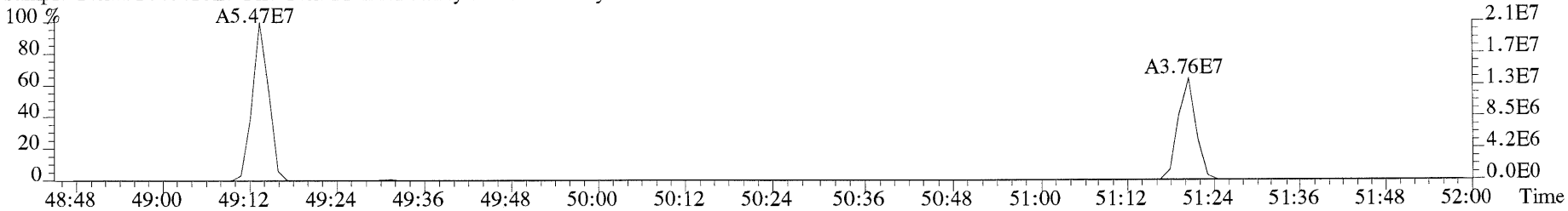
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



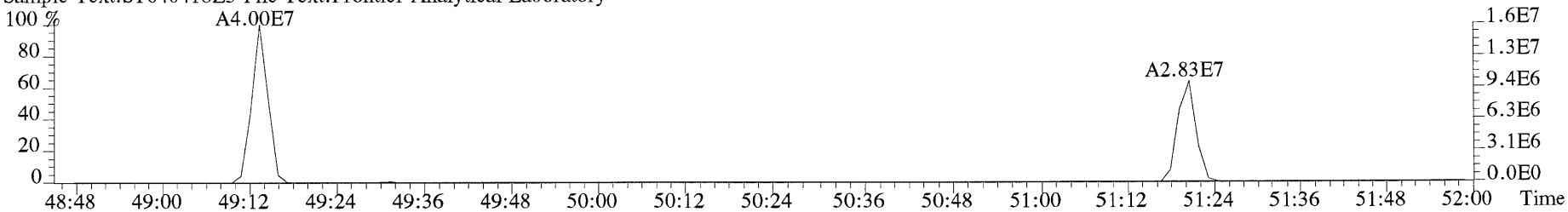
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



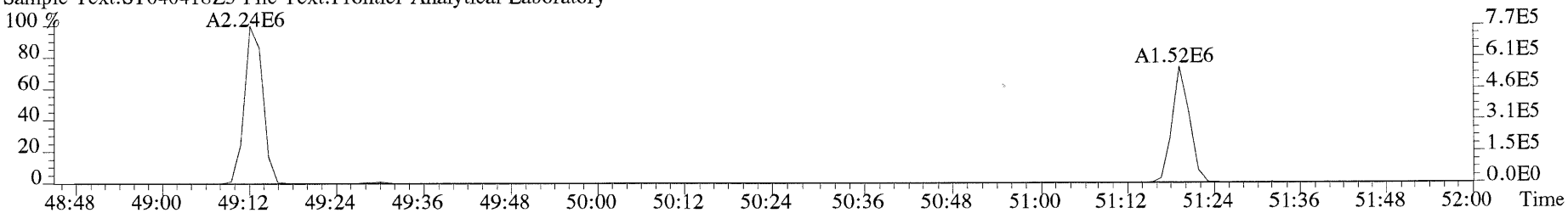
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



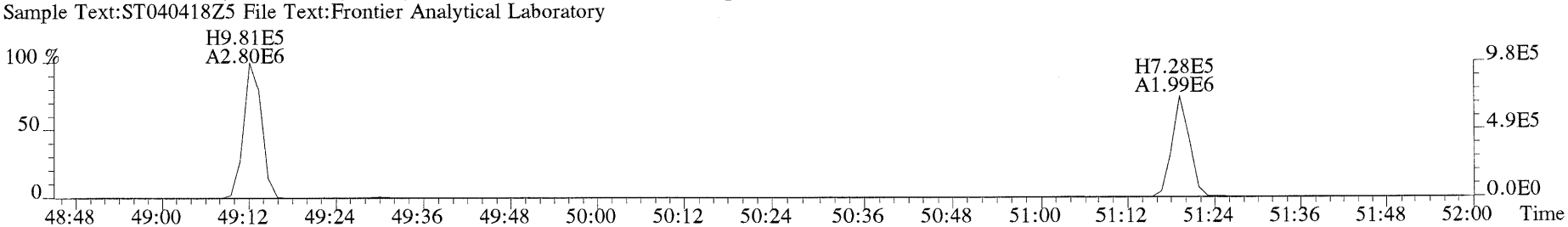
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



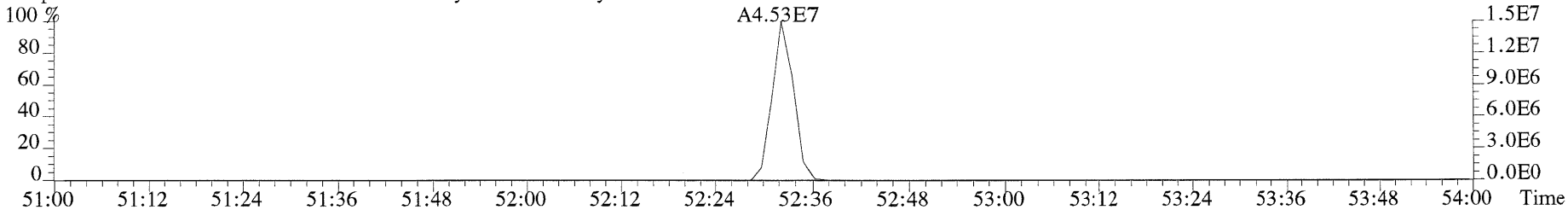
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



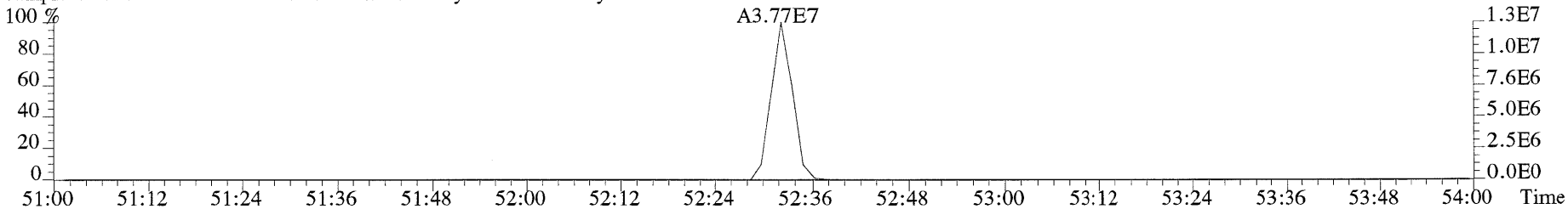
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



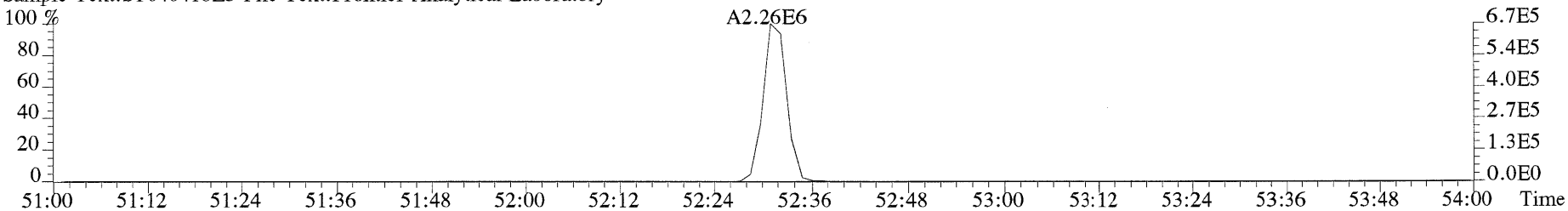
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



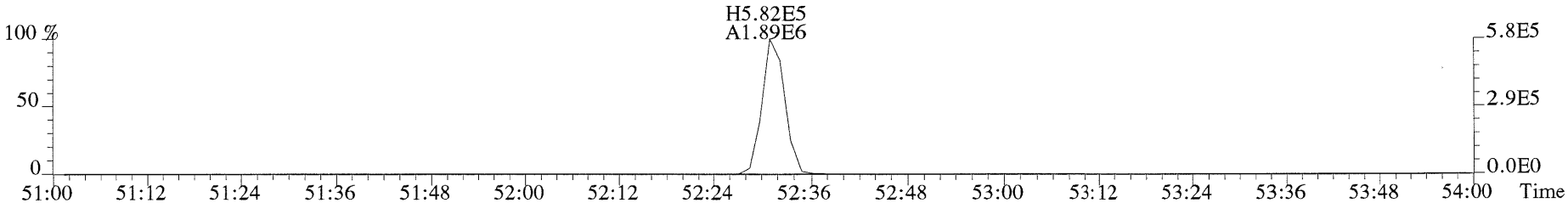
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory



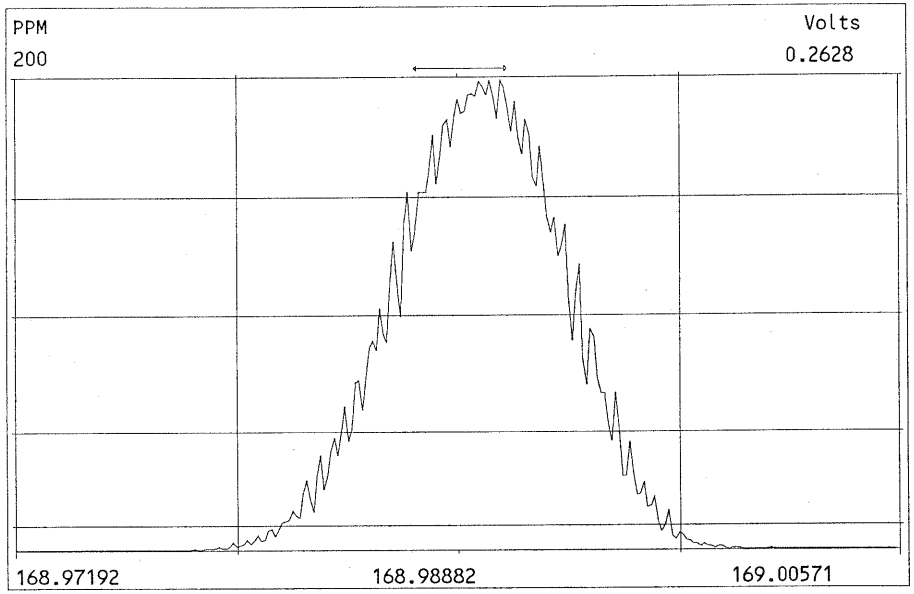
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory

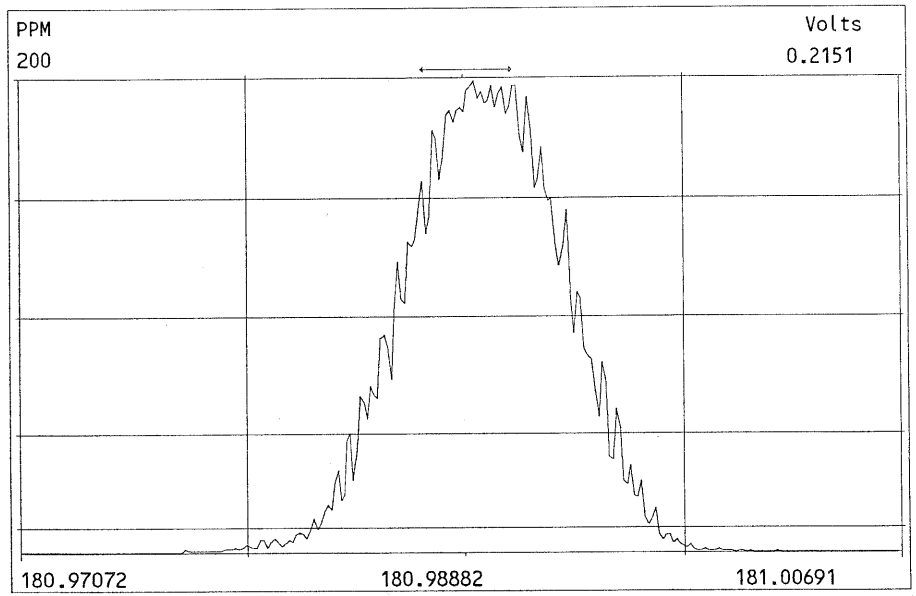


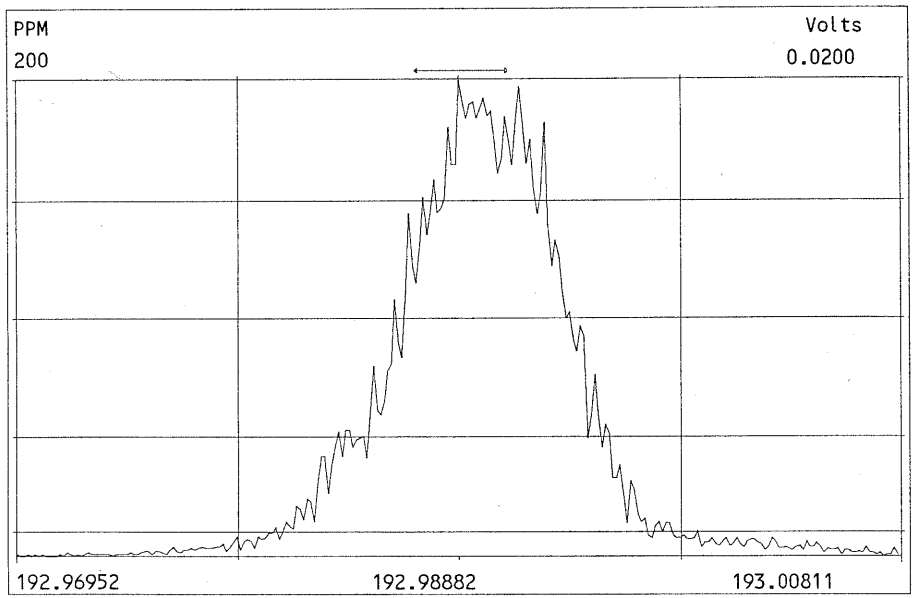
File:04APR18Z #1-315 Acq: 4-APR-2018 21:32:25 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040418Z5 File Text:Frontier Analytical Laboratory

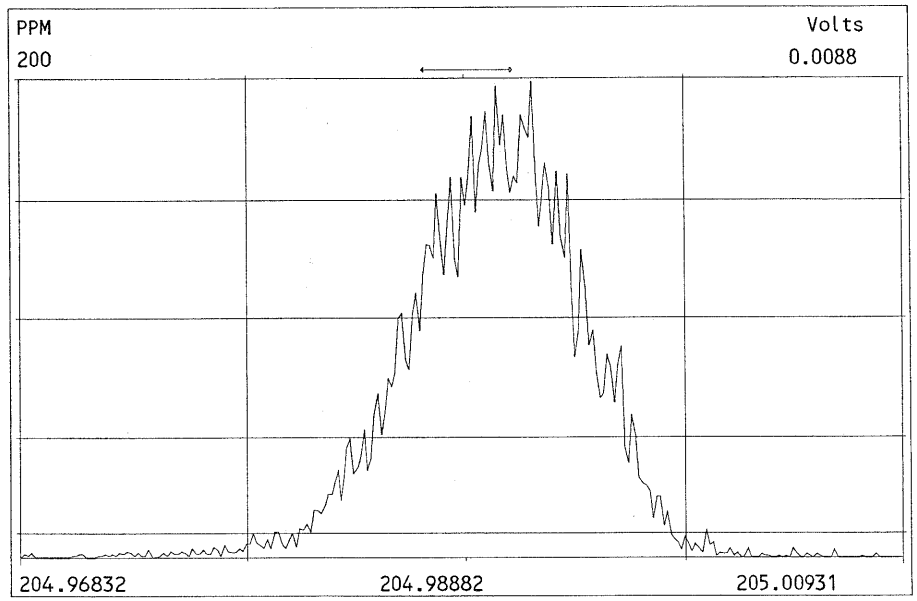


Peak Locate Examination: 5-APR-2018:08:20 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

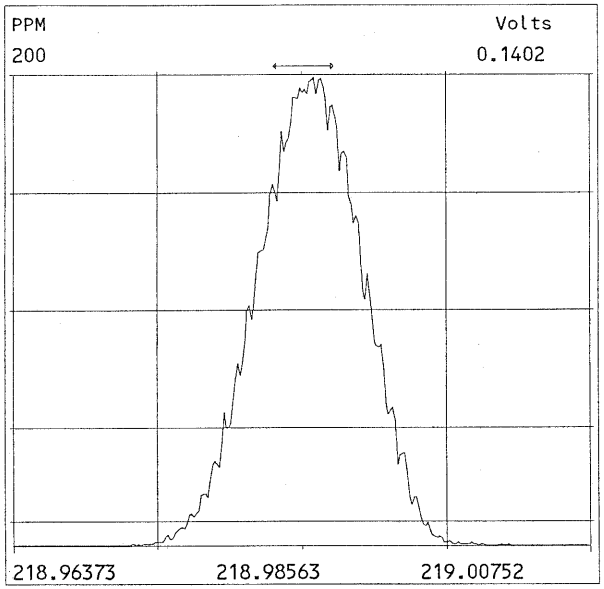


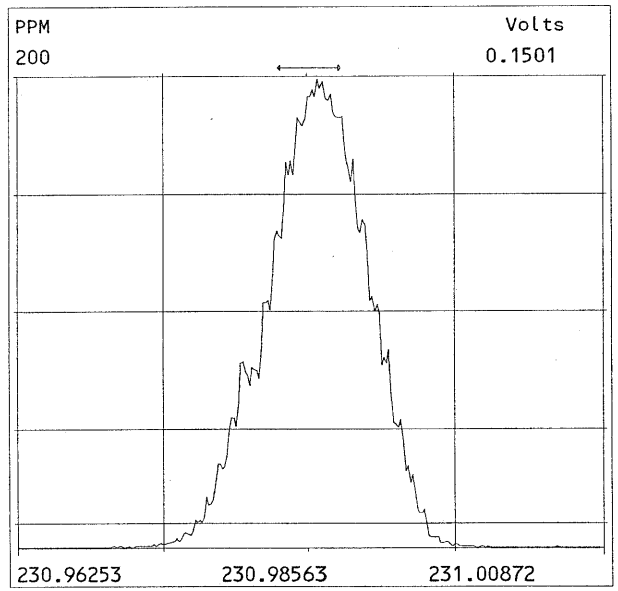


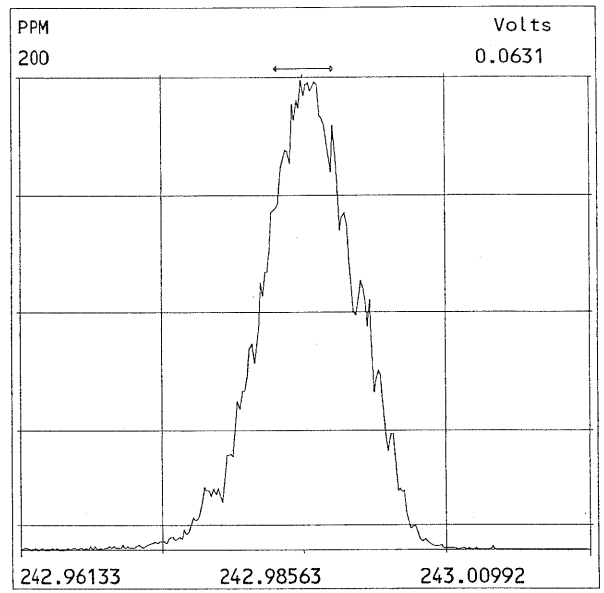


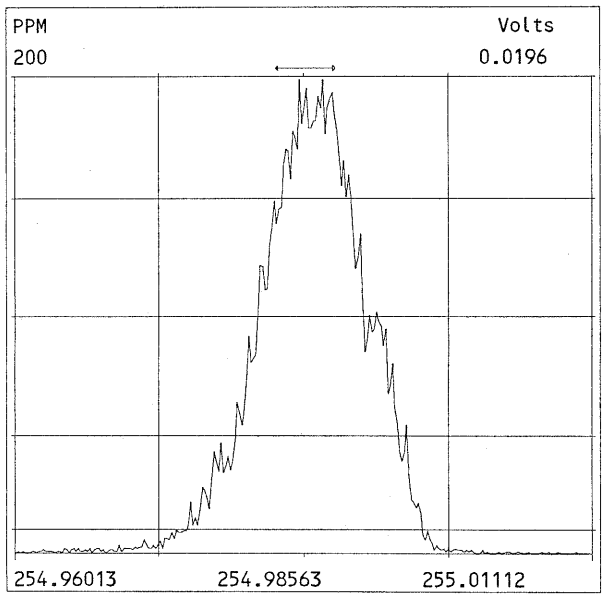


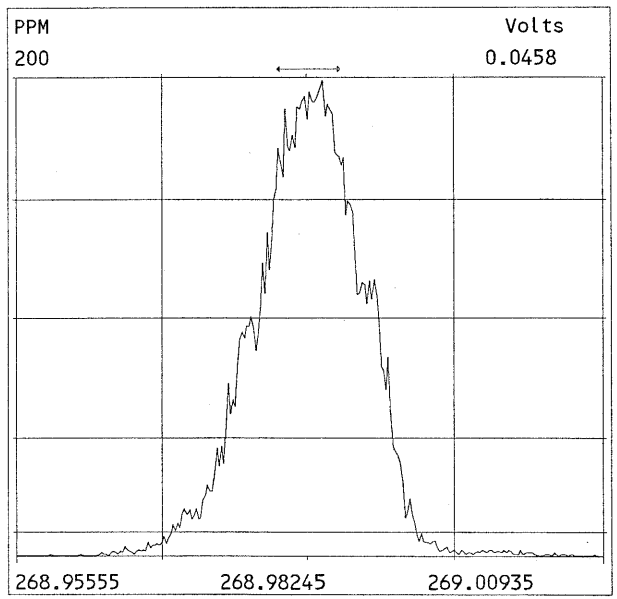
Peak Locate Examination: 5-APR-2018:08:21 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

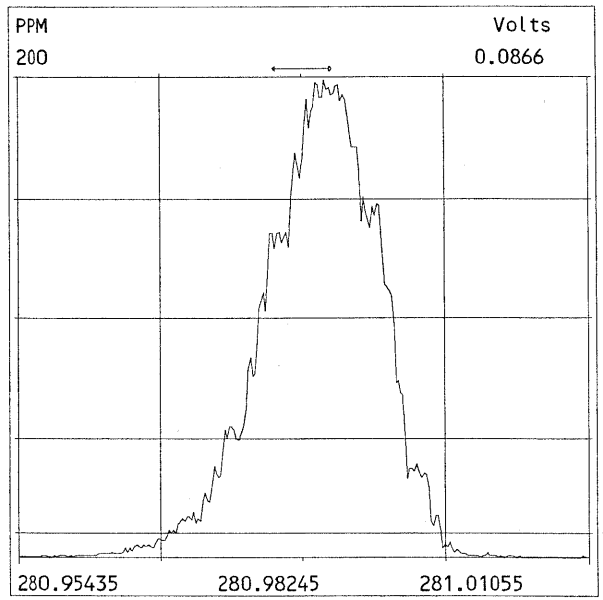




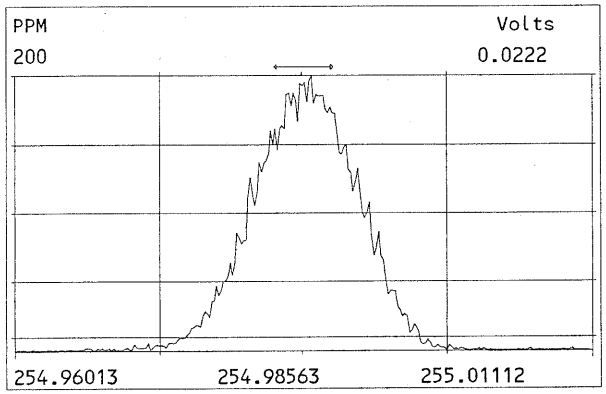


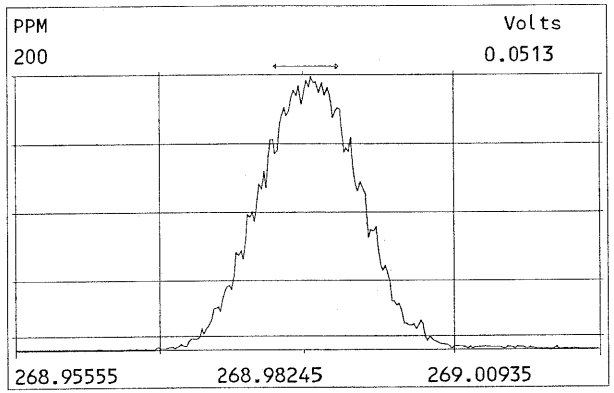


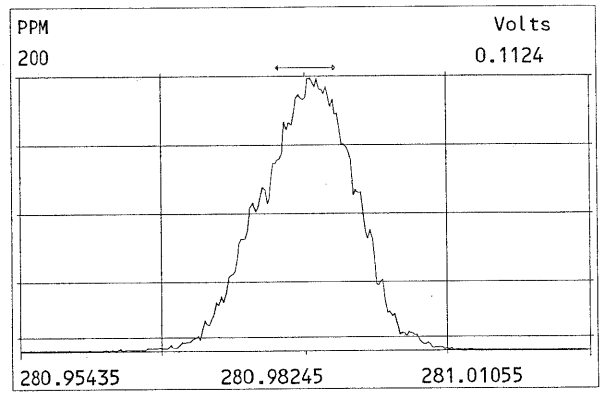


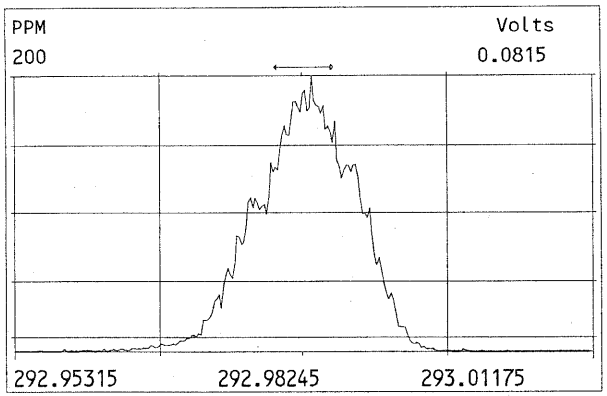


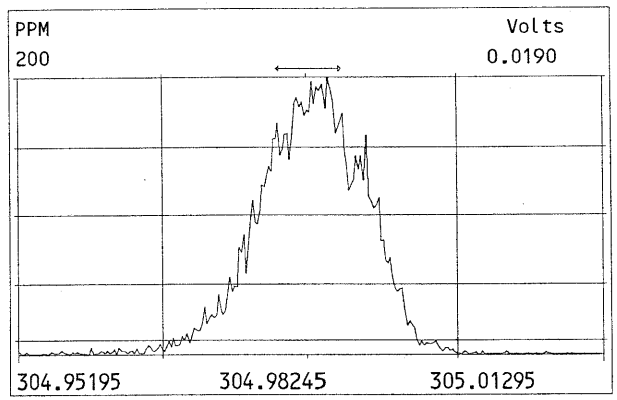
Peak Locate Examination: 5-APR-2018:08:21 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

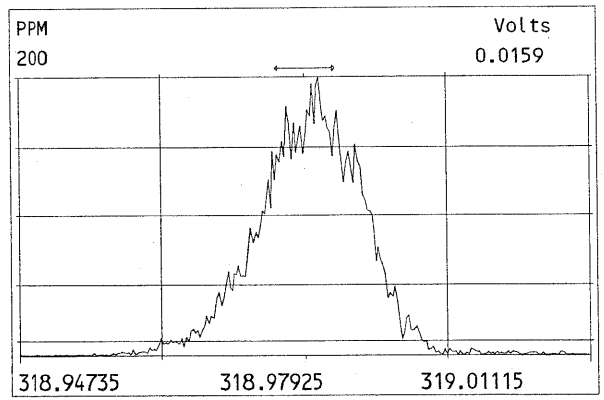


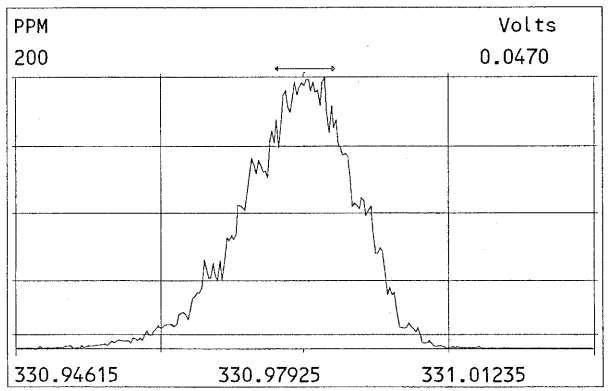


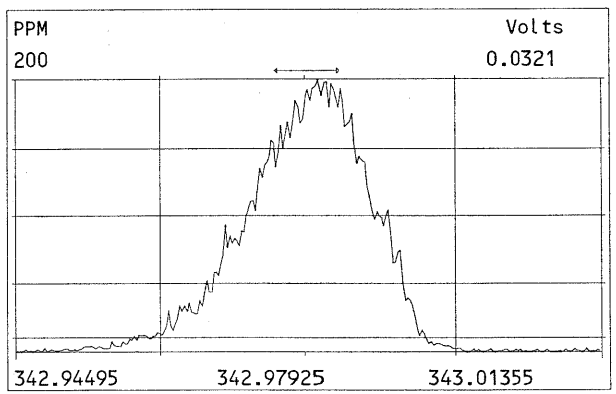




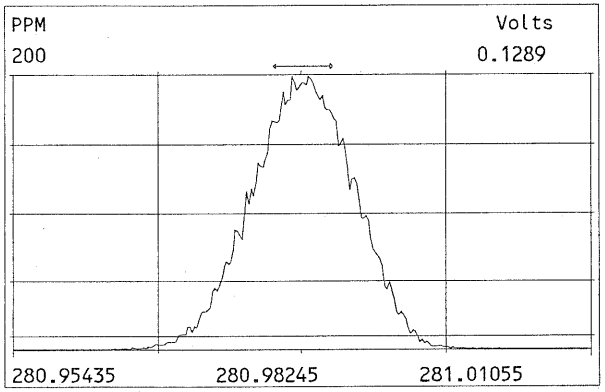


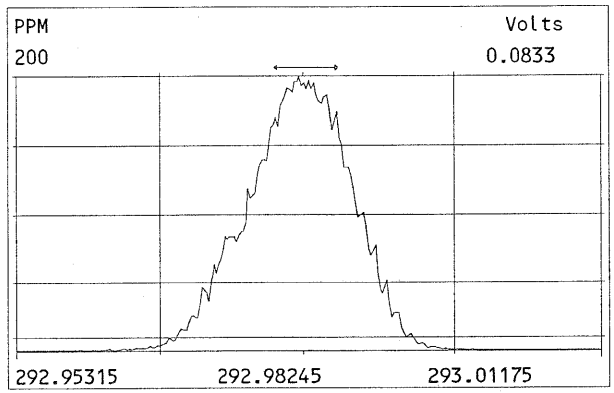


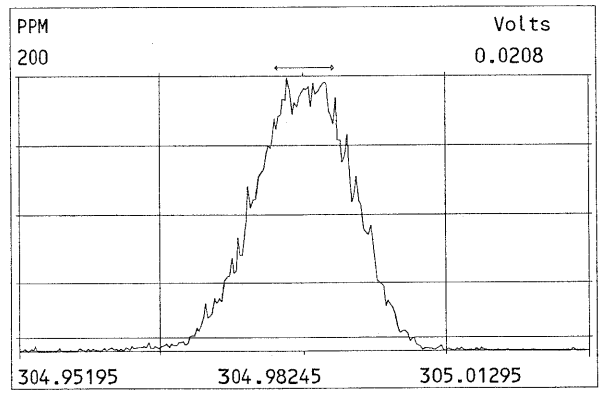


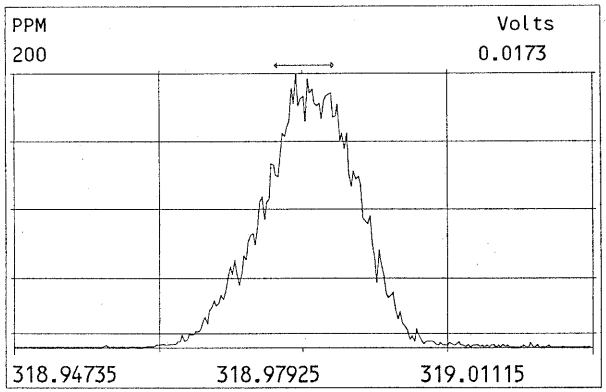


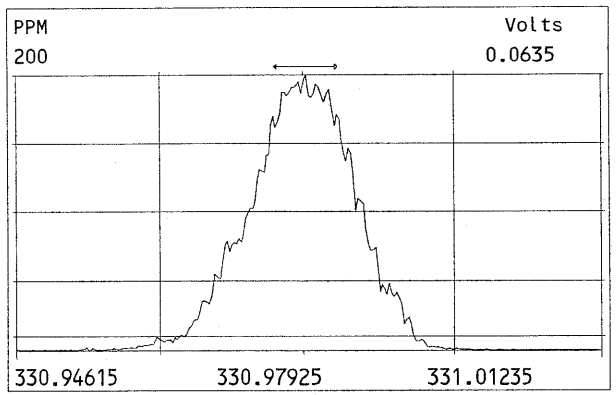
Peak Locate Examination: 5-APR-2018:08:22 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

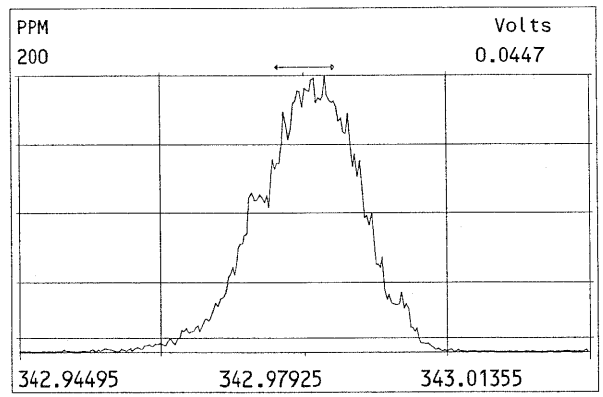


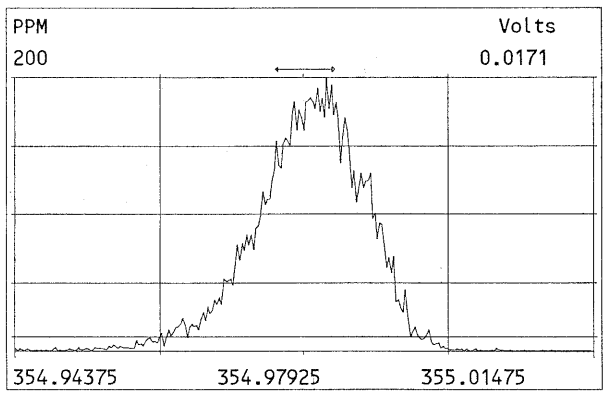


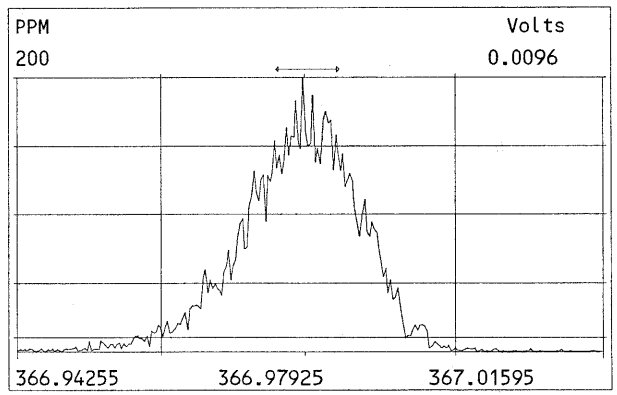


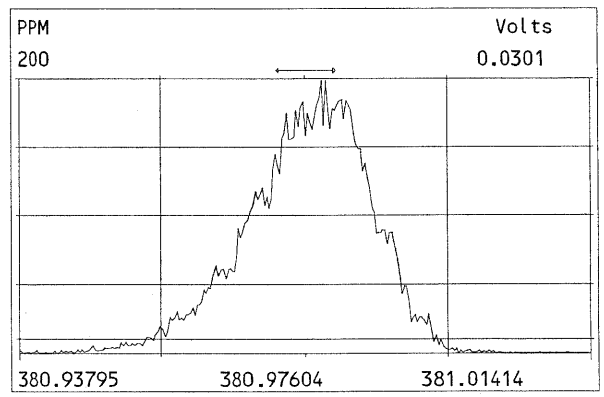




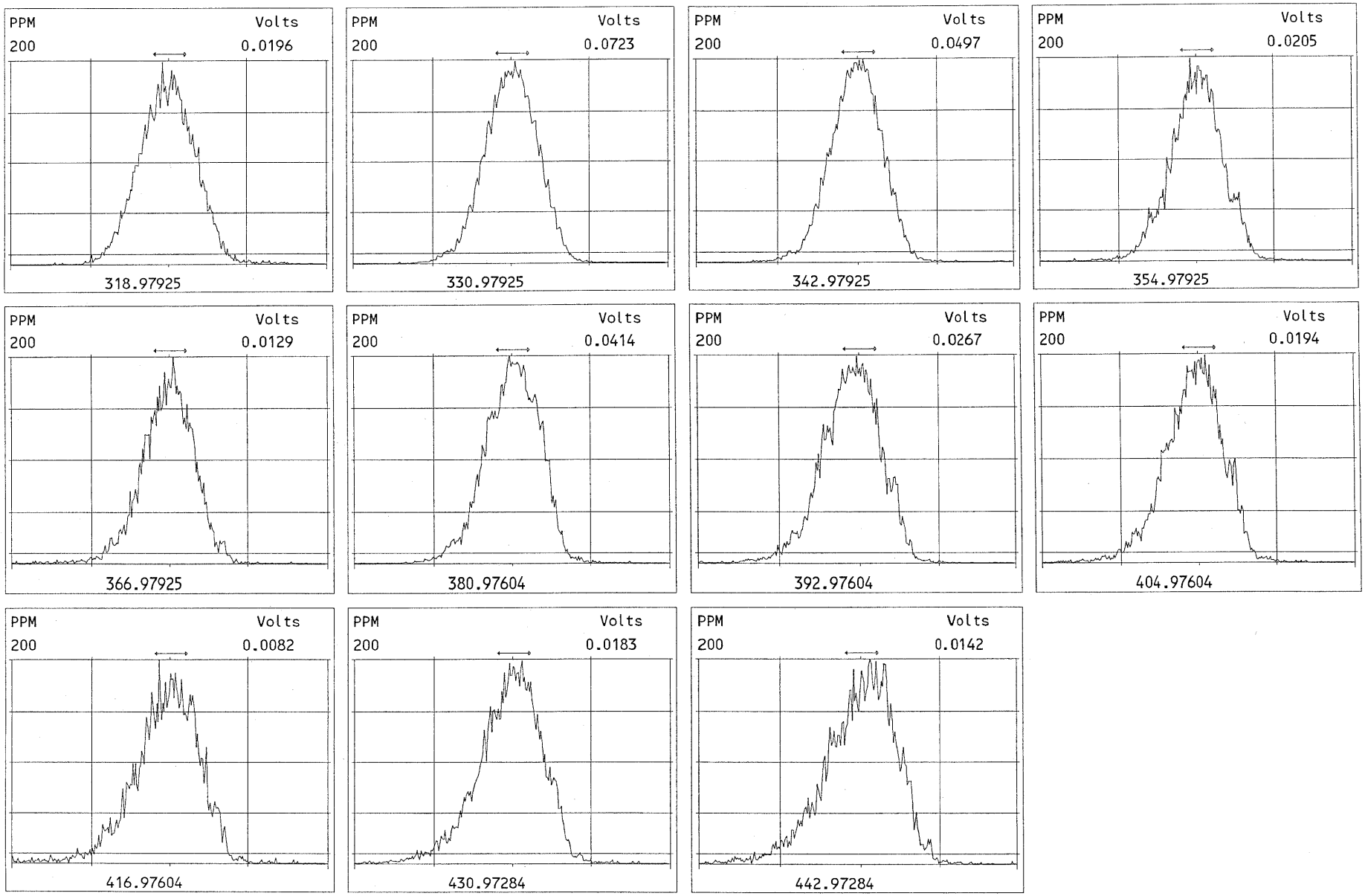




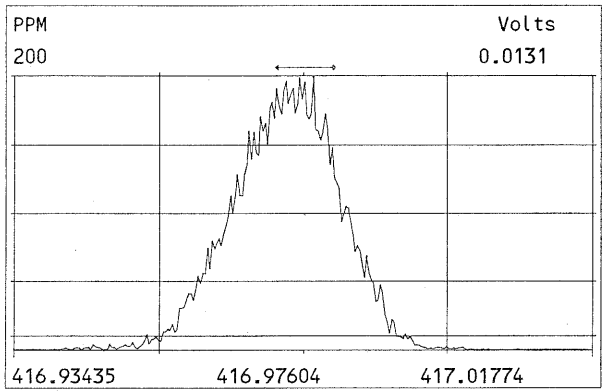


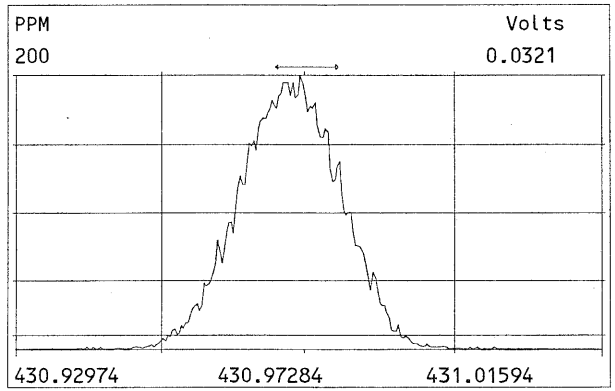


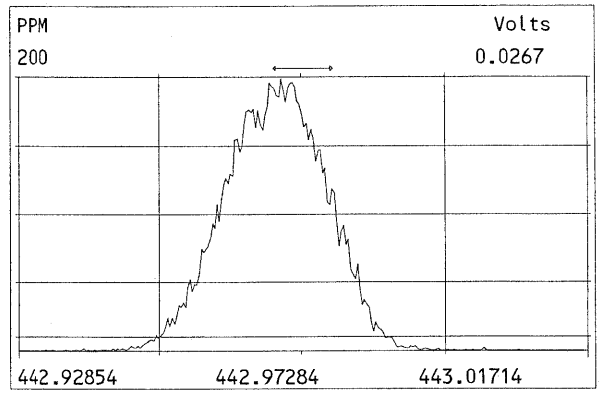
Peak Locate Examination: 5-APR-2018:08:22 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

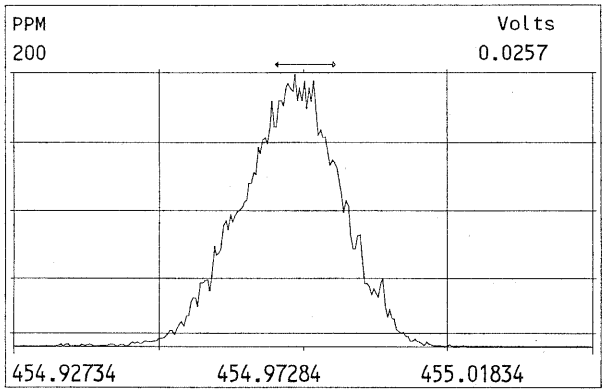


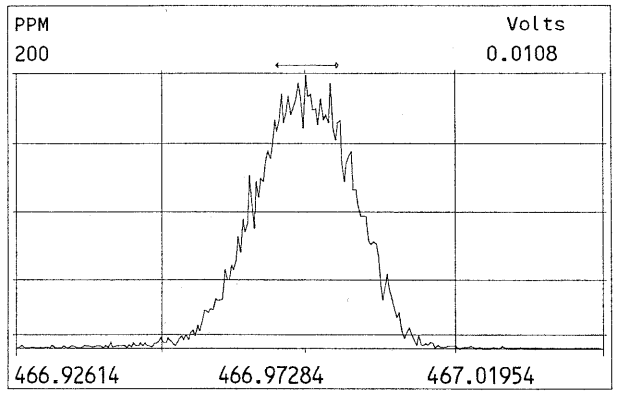
Peak Locate Examination: 5-APR-2018:08:23 File:04APR18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

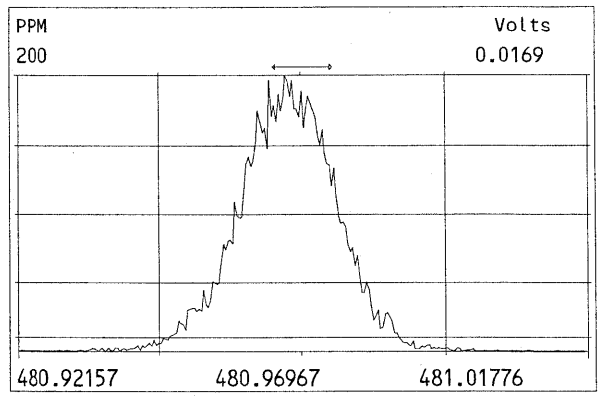


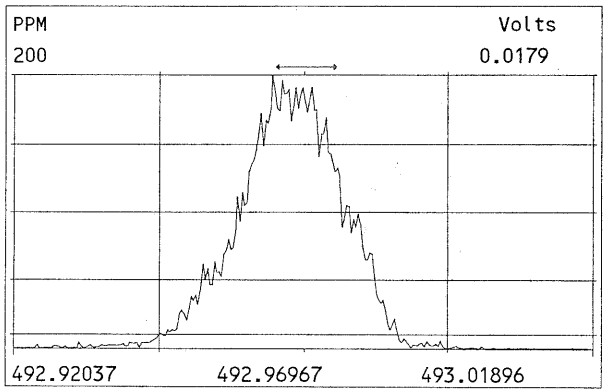


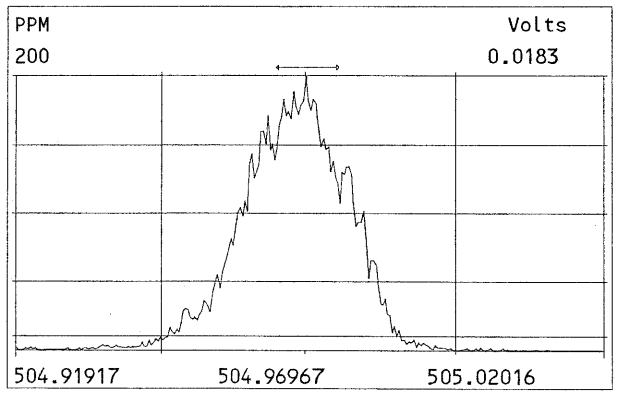


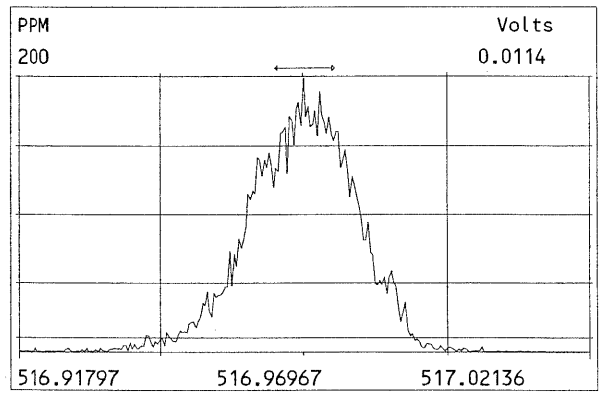












Frontier Analytical Laboratory

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: 30JUL18Z Sam:1 Analysis Date: 30-JUL-18 10:19:43

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.21	2.66-3.60	y	53.8	37.5 - 62.5
PCB-3	M/M+2	3.17	2.66-3.60	y	52.0	37.5 - 62.5
PCB-4	M/M+2	1.58	1.33-1.79	y	55.0	37.5 - 62.5
PCB-15	M/M+2	1.58	1.33-1.79	y	56.5	37.5 - 62.5
PCB-19	M/M+2	1.05	0.88-1.20	y	49.5	37.5 - 62.5
PCB-37	M/M+2	1.08	0.88-1.20	y	52.3	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	51.9	37.5 - 62.5
PCB-77	M/M+2	0.81	0.65-0.89	y	56.7	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	57.5	37.5 - 62.5
PCB-104	M+2/M+4	1.63	1.32-1.78	y	51.5	37.5 - 62.5
PCB-105	M+2/M+4	1.63	1.32-1.78	y	52.5	37.5 - 62.5
PCB-114	M+2/M+4	1.60	1.32-1.78	y	52.7	37.5 - 62.5
PCB-118	M+2/M+4	1.61	1.32-1.78	y	52.1	37.5 - 62.5
PCB-123	M+2/M+4	1.63	1.32-1.78	y	53.6	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	53.3	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	54.3	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	52.6	37.5 - 62.5
PCB-157	M+2/M+4	1.30	1.05-1.43	y	52.0	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	53.9	37.5 - 62.5
PCB-169	M+2/M+4	1.31	1.05-1.43	y	51.6	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	48.6	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	53.5	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	51.5	37.5 - 62.5
PCB-205	M+2/M+4	0.92	0.76-1.02	y	56.3	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	50.7	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	52.0	37.5 - 62.5
PCB-209	M+4/M+6	1.21	0.99-1.33	y	51.1	37.5 - 62.5

Analyst: b Date: 7/30/18

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: 30JUL18Z Sam:1 Analysis Date: 30-JUL-18 10:19:43

	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	3.16	2.66-3.60	y	83.3	50.0 - 145
13C-PCB-3	M/M+2	3.22	2.66-3.60	y	84.4	50.0 - 145
13C-PCB-4	M/M+2	1.63	1.33-1.79	y	100	50.0 - 145
13C-PCB-15	M/M+2	1.68	1.33-1.79	y	90.4	50.0 - 145
13C-PCB-19	M/M+2	1.10	0.88-1.20	y	91.9	50.0 - 145
13C-PCB-37	M/M+2	1.14	0.88-1.20	y	119	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	104	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	105	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	102	50.0 - 145
13C-PCB-104	M+2/M+4	1.62	1.32-1.78	y	87.3	50.0 - 145
13C-PCB-105	M+2/M+4	1.66	1.32-1.78	y	100	50.0 - 145
13C-PCB-114	M+2/M+4	1.66	1.32-1.78	y	102	50.0 - 145
13C-PCB-118	M+2/M+4	1.63	1.32-1.78	y	111	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	96.5	50.0 - 145
13C-PCB-126	M+2/M+4	1.65	1.32-1.78	y	98.3	50.0 - 145
13C-PCB-155	M+2/M+4	1.31	1.05-1.43	y	84.6	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	88.7	50.0 - 145
13C-PCB-157	M+2/M+4	1.31	1.05-1.43	y	91.2	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	91.0	50.0 - 145
13C-PCB-169	M+2/M+4	1.32	1.05-1.43	y	90.6	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	89.4	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	82.5	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	77.5	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	99.2	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	104	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	89.7	50.0 - 145
13C-PCB-209	M+4/M+6	1.18	0.99-1.33	y	93.0	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.08	0.88-1.20	y	121	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	95.9	75.0 - 125
13C-PCB-178	M+2/M+4	1.09	0.89-1.21	y	89.4	75.0 - 125

Analyst: [signature] Date: 7/30/18

FAL ID: ST073018Z1 Filename: 30JUL18Z Sam:1 Acquired: 30-JUL-18 10:19:43 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 27JUL18Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.29e+07	3.21 y	14:32	1.11	53.8		2.50	-	-	*	-
13C-PCB-1	7.21e+07	3.16 y	14:31	1.07	83.3		2.50				83.3
PCB-3	4.15e+07	3.17 y	16:58	1.13	52.0		2.50	-	-	*	-
13C-PCB-3	7.07e+07	3.22 y	16:57	1.03	84.4		2.50				84.4
PCB-4	3.45e+07	1.58 y	18:12	1.14	55.0		2.50	-	-	*	-
13C-PCB-4	5.49e+07	1.63 y	18:11	0.67	100		2.50				100
PCB-15	4.72e+07	1.58 y	23:45	1.10	56.5		2.50	-	-	*	-
13C-PCB-15	7.58e+07	1.68 y	23:45	1.03	90.4		2.50				90.4
PCB-19	2.13e+07	1.05 y	22:06	1.23	49.5		2.50	-	-	*	-
13C-PCB-19	3.51e+07	1.10 y	22:04	0.47	91.9		2.50				91.9
13C-PCB-9	8.11e+07	1.65 y	19:52	-	346		2.50				
PCB-37	4.12e+07	1.08 y	30:25	1.26	52.3		2.50	-	-	*	-
13C-PCB-37	6.28e+07	1.14 y	30:24	1.40	119		2.50				119
PCB-54	2.80e+07	0.80 y	25:38	1.16	51.9		2.50	-	-	*	-
13C-PCB-54	4.66e+07	0.82 y	25:37	1.19	104		2.50				104
PCB-104	1.66e+07	1.63 y	30:05	1.22	51.5		2.50	-	-	*	-
13C-PCB-104	2.64e+07	1.62 y	30:04	0.80	87.3		2.50				87.3
13C-PCB-28	7.03e+07	1.08 y	26:43	1.53	121		2.50				121
13C-PCB-52	3.79e+07	0.81 y	28:58	-	292		2.50				
PCB-81	3.04e+07	0.81 y	36:11	1.17	57.5		2.50	-	-	*	-
13C-PCB-81	4.52e+07	0.80 y	36:10	1.37	102		2.50				102
PCB-77	3.00e+07	0.81 y	36:45	1.11	56.7		2.50	-	-	*	-
13C-PCB-77	4.77e+07	0.80 y	36:44	1.41	105		2.50				105
PCB-155	1.73e+07	1.28 y	34:15	1.14	54.3		2.50	-	-	*	-
13C-PCB-155	2.79e+07	1.31 y	34:14	1.02	84.6		2.50				84.6
13C-PCB-111	3.91e+07	1.62 y	36:19	1.26	95.9		2.50				95.9
13C-PCB-101	3.23e+07	1.59 y	34:40	-	286		2.50				
PCB-123	2.61e+07	1.63 y	38:23	1.12	53.6		2.50	-	-	*	-
13C-PCB-123	4.33e+07	1.61 y	38:22	1.36	96.5		2.50				96.5
PCB-118	3.16e+07	1.61 y	38:33	1.16	52.1		2.50	-	-	*	-
13C-PCB-118	5.24e+07	1.63 y	38:31	1.42	111		2.50				111
PCB-114	2.77e+07	1.60 y	39:11	1.13	52.7		2.50	-	-	*	-
13C-PCB-114	4.67e+07	1.66 y	39:09	1.38	102		2.50				102
PCB-105	2.66e+07	1.63 y	39:59	1.11	52.5		2.50	-	-	*	-
13C-PCB-105	4.56e+07	1.66 y	39:59	1.38	100		2.50				100
PCB-126	2.48e+07	1.58 y	42:07	1.11	53.3		2.50	-	-	*	-
13C-PCB-126	4.17e+07	1.65 y	42:07	1.29	98.3		2.50				98.3
PCB-167	2.09e+07	1.26 y	43:29	1.05	53.9		2.50	-	-	*	-
13C-PCB-167	3.70e+07	1.27 y	43:28	1.23	91.0		2.50				91.0
PCB-156	1.97e+07	1.25 y	44:42	1.08	52.6		2.50	-	-	*	-
13C-PCB-156	3.49e+07	1.29 y	44:42	1.19	88.7		2.50				88.7
PCB-157	2.05e+07	1.30 y	44:58	1.06	52.0		2.50	-	-	*	-
13C-PCB-157	3.73e+07	1.31 y	44:57	1.24	91.2		2.50				91.2
PCB-169	1.89e+07	1.31 y	46:50	1.06	51.6		2.50	-	-	*	-
13C-PCB-169	3.44e+07	1.32 y	46:49	1.15	90.6		2.50				90.6
PCB-188	1.85e+07	1.08 y	39:44	1.14	48.6		2.50	-	-	*	-
13C-PCB-188	3.33e+07	1.09 y	39:42	1.13	89.4		2.50				89.4
PCB-189	1.54e+07	1.07 y	48:29	1.12	53.5		2.50	-	-	*	-
13C-PCB-189	2.57e+07	1.08 y	48:27	0.94	82.5		2.50				82.5
PCB-202	1.11e+07	0.92 y	44:52	1.09	51.5		2.50	-	-	*	-
13C-PCB-202	1.98e+07	0.92 y	44:50	0.77	77.5		2.50				77.5
13C-PCB-178	2.25e+07	1.09 y	42:22	0.76	89.4		2.50				89.4
13C-PCB-138	3.30e+07	1.28 y	41:36	-	302		2.50				

FAL ID: ST073018Z1 Filename: 30JUL18Z Sam:1 Acquired: 30-JUL-18 10:19:43 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 27JUL18Z GC Column: DB1MS Amount: 1.000

PCB-205	2.66e+07	0.92	y	50:07	1.04	56.3	2.50	-	-	*	-
13C-PCB-205	4.54e+07	0.91	y	50:07	1.32	99.2	2.50				99.2
PCB-208	2.07e+07	1.36	y	49:11	0.96	52.0	2.50	-	-	*	-
13C-PCB-208	4.14e+07	0.81	y	49:09	1.33	89.7	2.50				89.7
PCB-206	1.67e+07	1.35	y	51:18	0.97	50.7	2.50	-	-	*	-
13C-PCB-206	3.38e+07	0.81	y	51:18	0.94	104	2.50				104
PCB-209	2.02e+07	1.21	y	52:30	1.17	51.1	2.50	-	-	*	-
13C-PCB-209	3.36e+07	1.18	y	52:30	1.04	93.0	2.50				93.0
13C-PCB-194	3.47e+07	0.92	y	49:51	-	350	2.50				

Analyst: [signature] Date: 7/30/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:30JUL18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

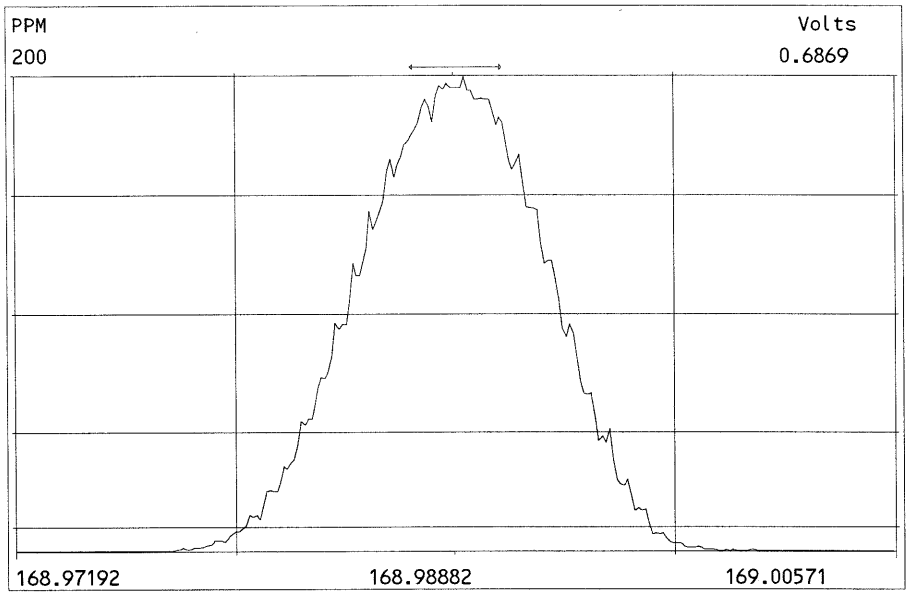
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
30JUL18Z	1	ST073018Z1	1668 CS3 170805A	30-JUL-18 10:19:43	ST073018Z1	ST073018Z2	BS
30JUL18Z	2	SS073018Z1	Daily 209 180725A	30-JUL-18 11:18:03	ST073018Z1	ST073018Z2	BS
30JUL18Z	3	04590-001-0001-OPR	OPR	30-JUL-18 12:16:25	ST073018Z1	ST073018Z2	BS
30JUL18Z	4	04590-001-0001-MB	Method Blank	30-JUL-18 13:14:46	ST073018Z1	ST073018Z2	BS
30JUL18Z	5	11719-001-0001-SA	LDW-Y1-IN-ENR-CA-CORE	30-JUL-18 14:13:33	ST073018Z1	ST073018Z2	BS
30JUL18Z	6	11719-002-0001-SA	LDW-Y1-IN-ENR-CB-CORE	30-JUL-18 15:12:19	ST073018Z1	ST073018Z2	BS
30JUL18Z	7	11719-003-0001-SA	LDW-Y1-IN-ENR-CC-CORE	30-JUL-18 16:11:06	ST073018Z1	ST073018Z2	BS
30JUL18Z	8	11719-004-0001-SA	LDW-Y1-IN-ENR+AC-CA-CORE	30-JUL-18 17:09:53	ST073018Z1	ST073018Z2	BS
30JUL18Z	9	11719-005-0001-SA	LDW-Y1-IN-ENR+AC-CB-CORE	30-JUL-18 18:08:40	ST073018Z1	ST073018Z2	BS
30JUL18Z	10	11719-006-0001-SA	LDW-Y1-IN-ENR+AC-CC-CORE	30-JUL-18 19:07:26	ST073018Z1	ST073018Z2	BS
30JUL18Z	11	11740-001-0001-SA	Tampax Active Sample 1 81362	30-JUL-18 20:05:51	ST073018Z1	ST073018Z2	BS
30JUL18Z	12	11740-002-0001-SA	Tampax Active Sample 2 81172	30-JUL-18 21:04:37	ST073018Z1	ST073018Z2	BS
30JUL18Z	13	11740-003-0001-SA	Tampax Active Sample 1 81362	30-JUL-18 22:02:58	ST073018Z1	ST073018Z2	BS
30JUL18Z	14	11740-004-0001-SA	Tampax Active Sample 2 81172	30-JUL-18 23:01:22	ST073018Z1	ST073018Z2	BS
30JUL18Z	15	SB073018Z1	Solvent Blank	30-JUL-18 23:59:44	ST073018Z1	ST073018Z2	BS
30JUL18Z	16	ST073018Z2	1668 CS3 170805A	31-JUL-18 00:58:33	ST073018Z1	ST073018Z2	BS

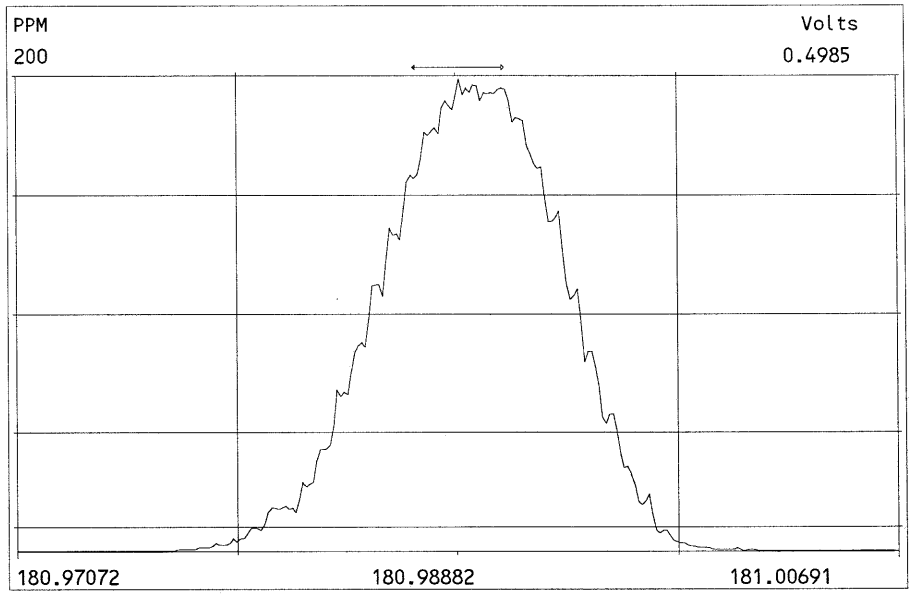
b 7/31/18

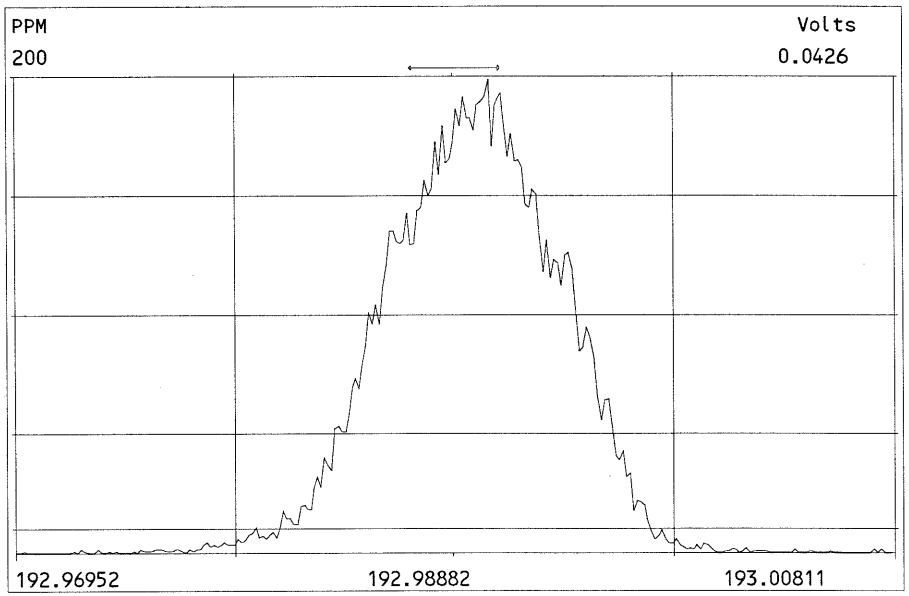
Data Backed Up:_____

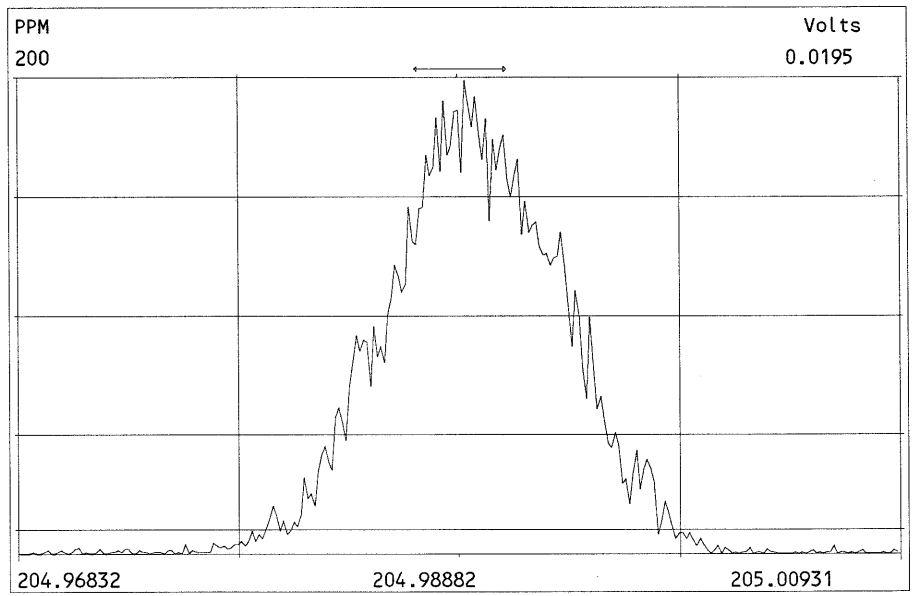
Date:_____

Peak Locate Examination:30-JUL-2018:10:17 File:30JUL18Z
Experiment:1668PCB Function:1 Reference:PFK

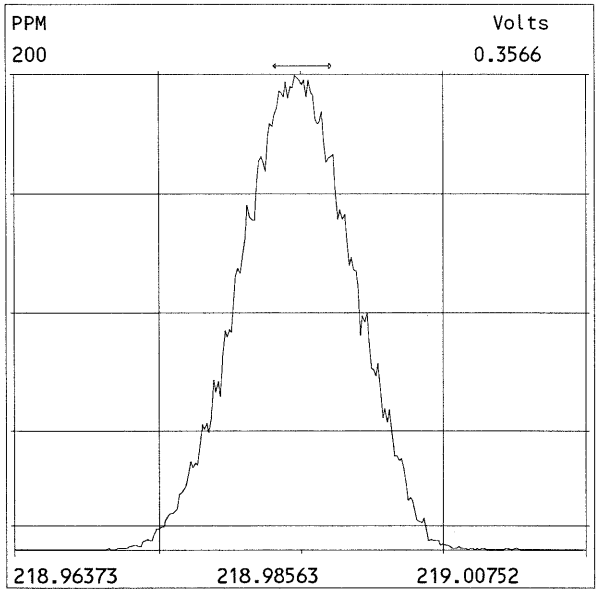


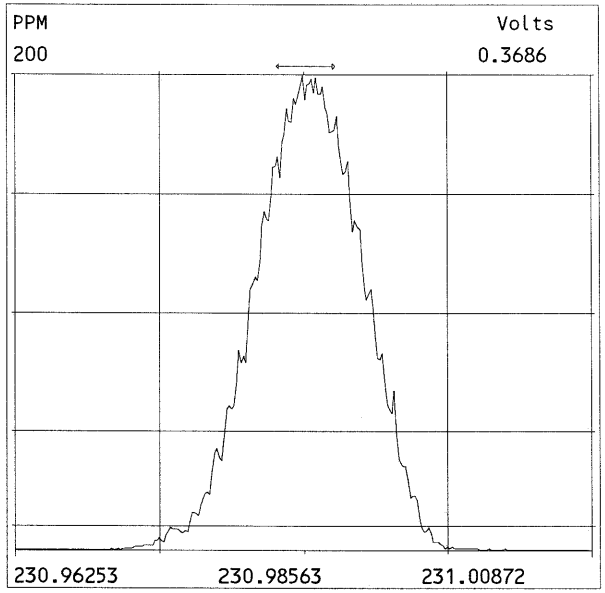


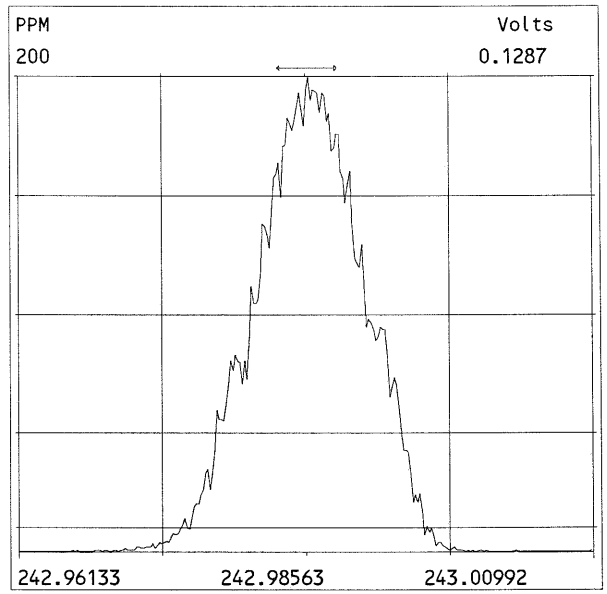


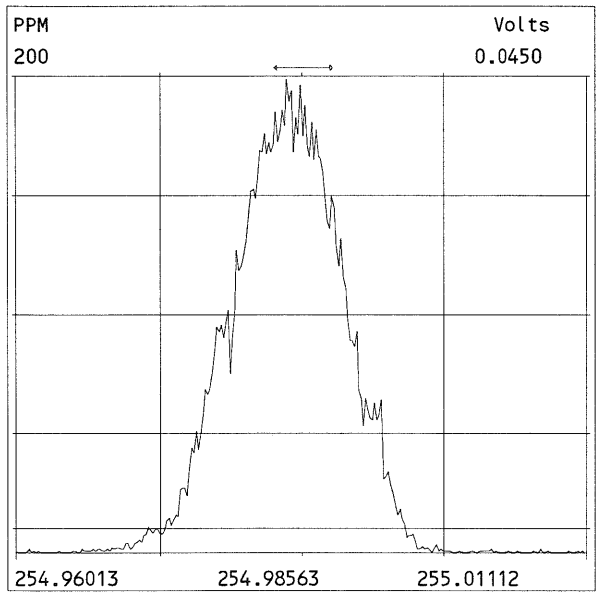


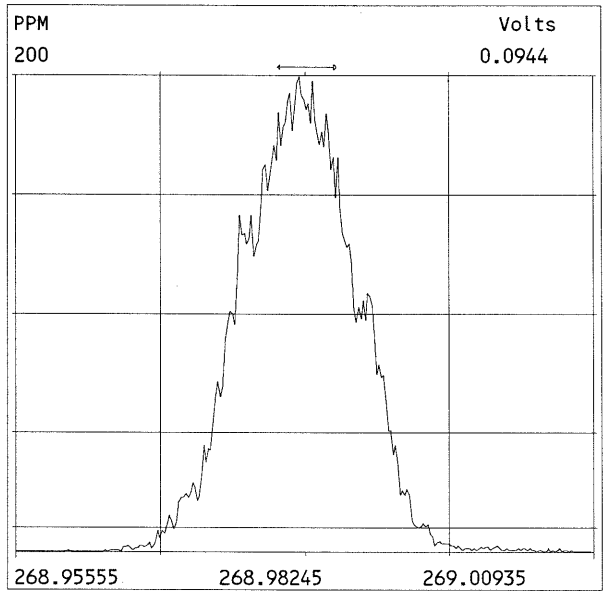
Peak Locate Examination:30-JUL-2018:10:17 File:30JUL18Z
Experiment:1668PCB Function:2 Reference:PFK

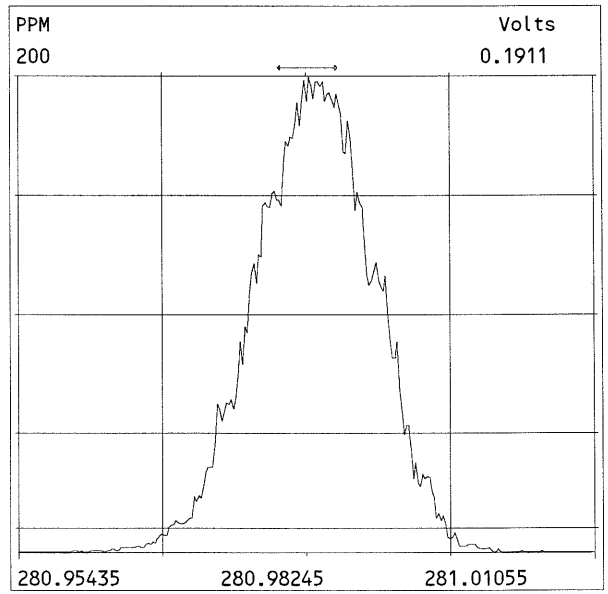




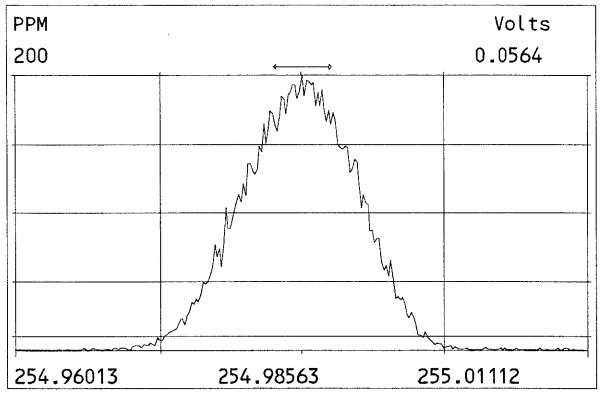


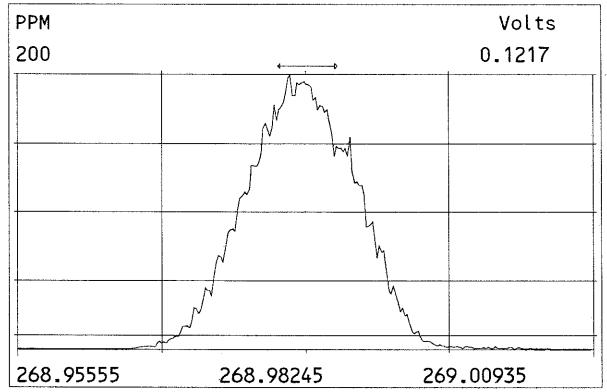


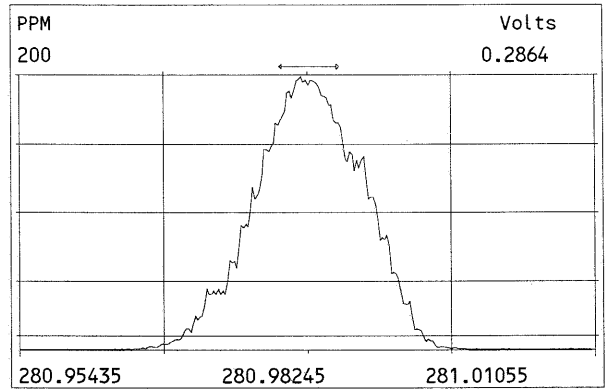


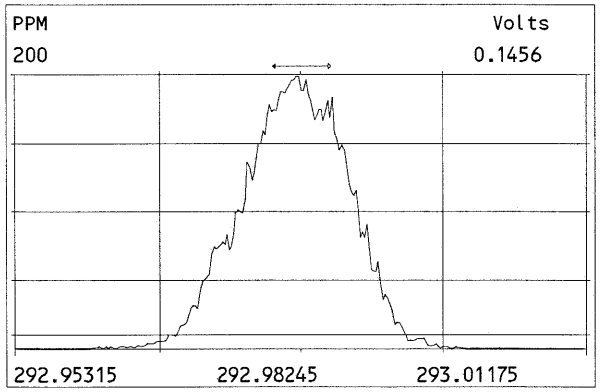


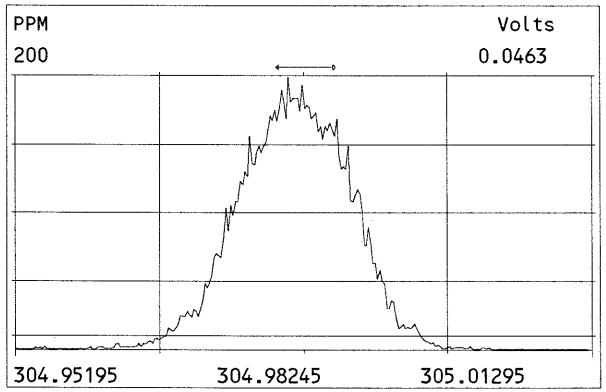
Peak Locate Examination:30-JUL-2018:10:18 File:30JUL18Z
Experiment:1668PCB Function:3 Reference:PFK

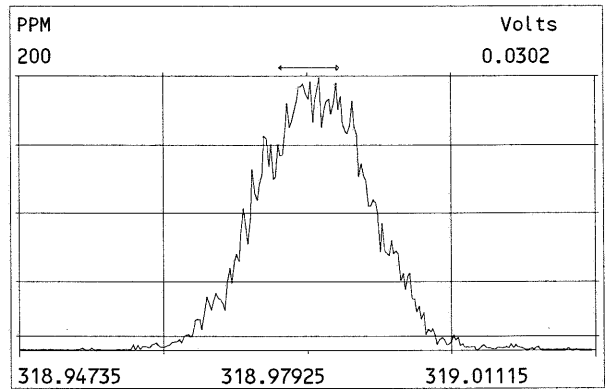


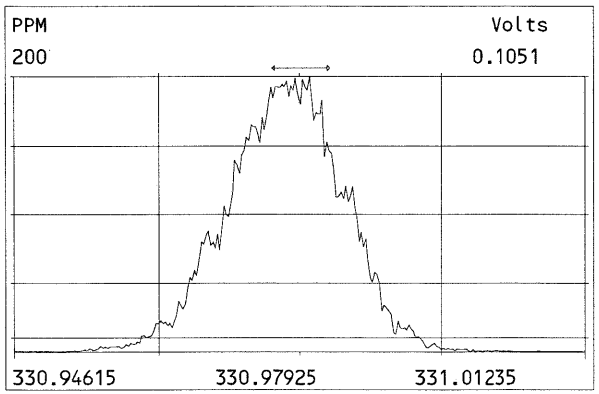


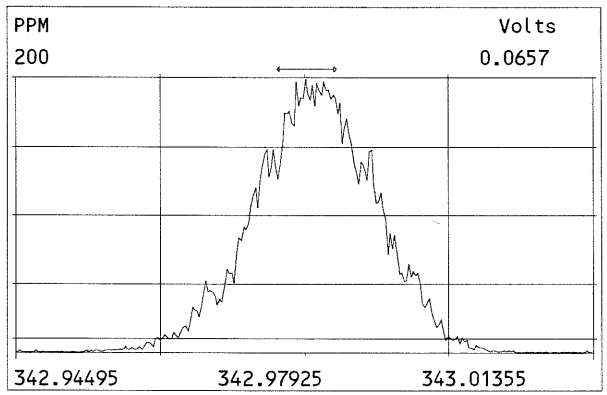




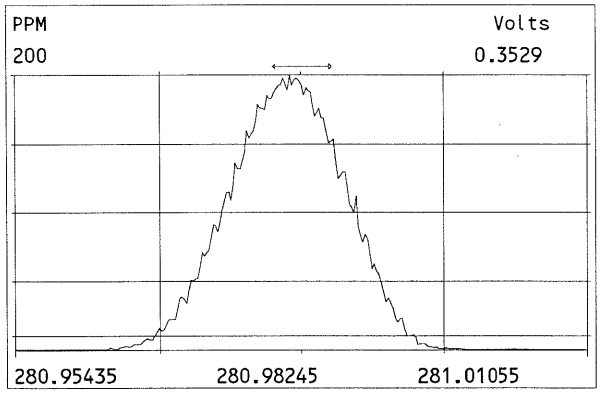


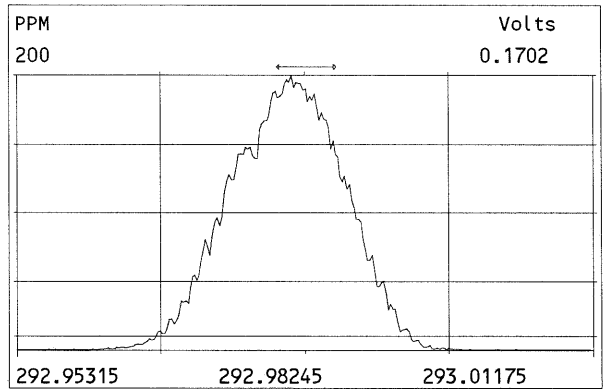


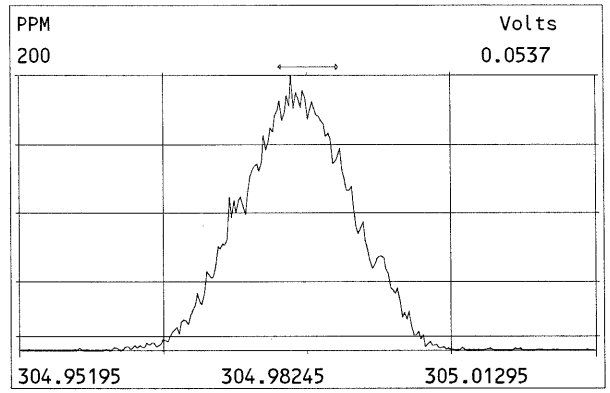


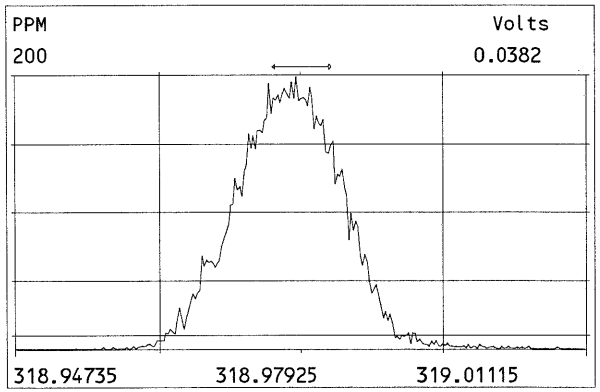


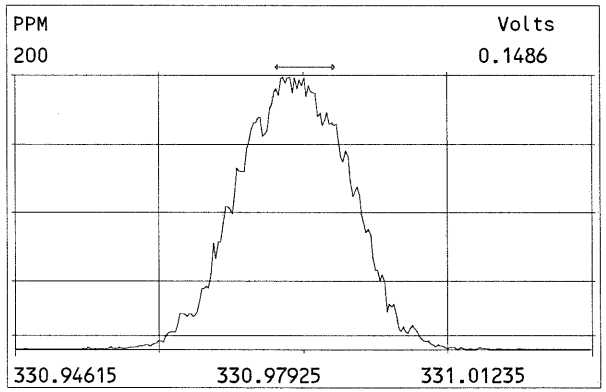
Peak Locate Examination:30-JUL-2018:10:18 File:30JUL18Z
Experiment:1668PCB Function:4 Reference:PFK

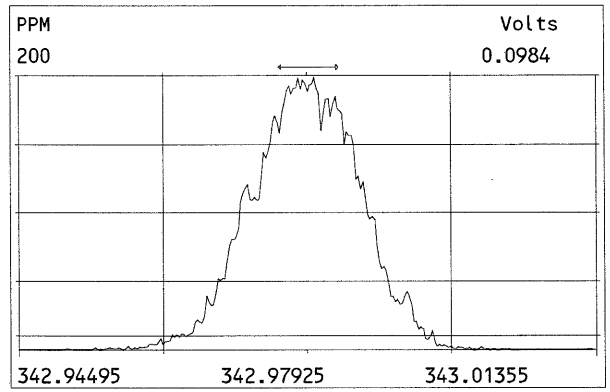


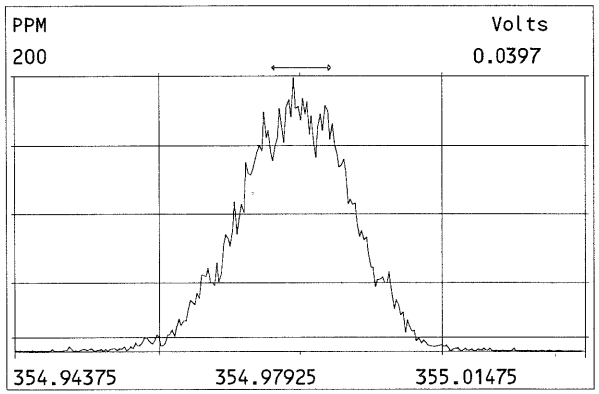


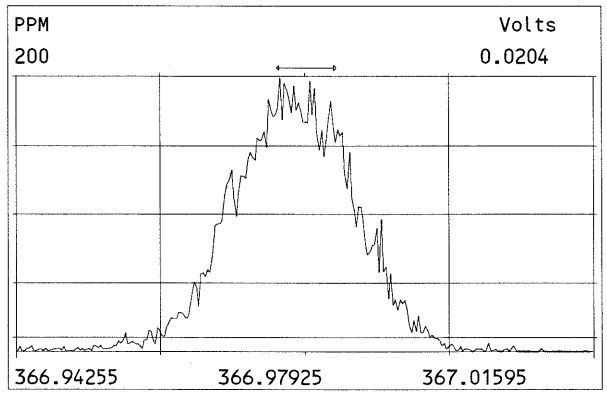


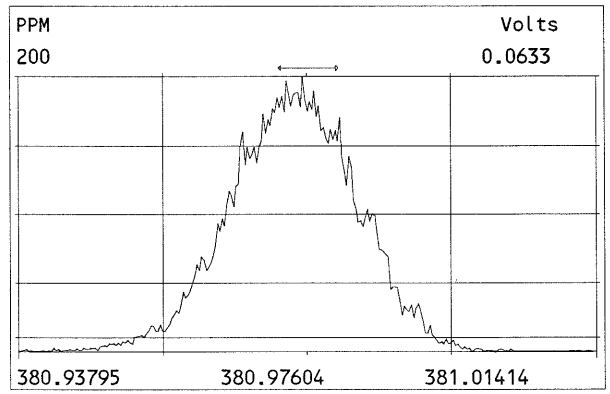




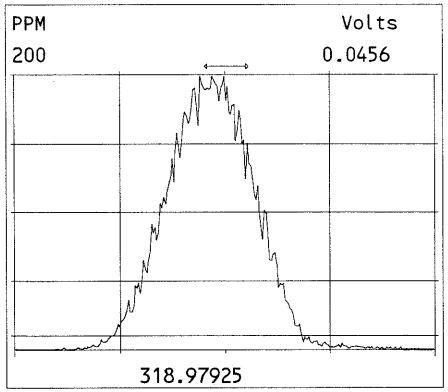


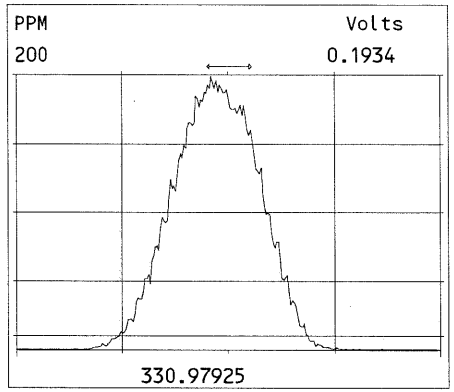


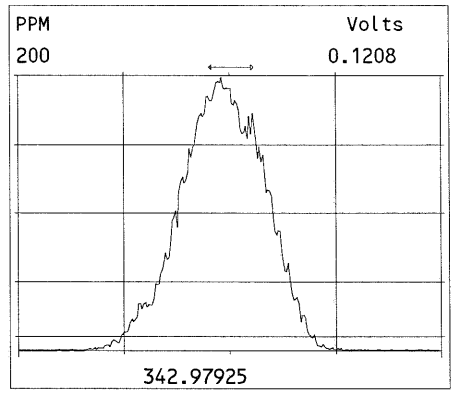


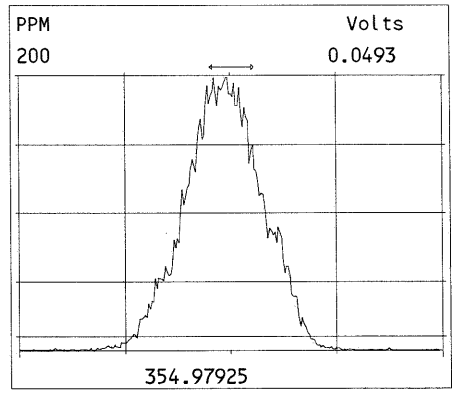


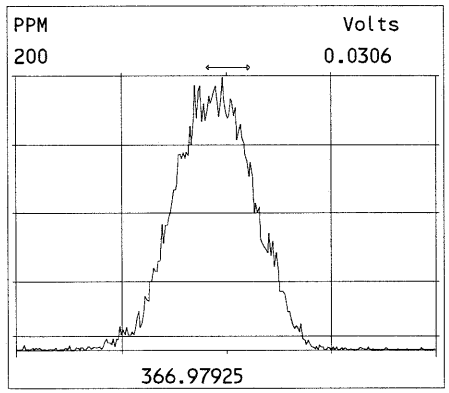
Peak Locate Examination:30-JUL-2018:10:18 File:30JUL18Z
Experiment:1668PCB Function:5 Reference:PFK

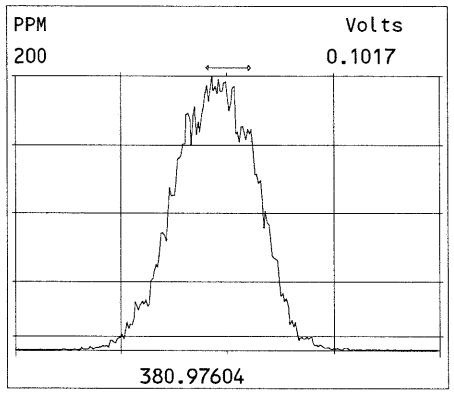


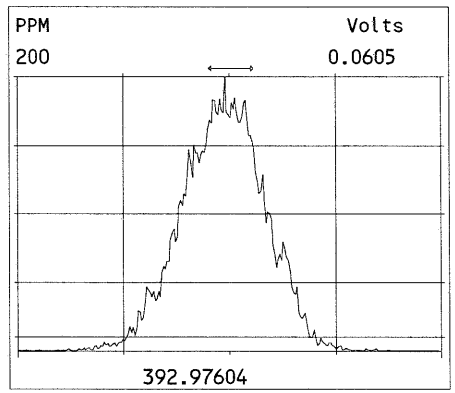


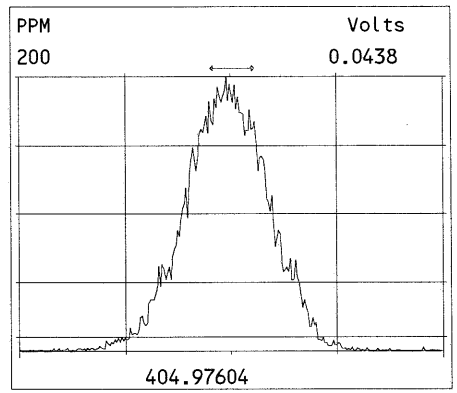


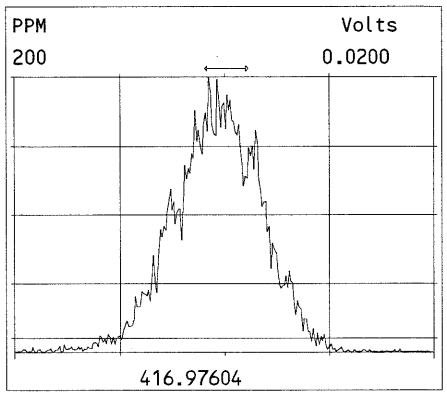


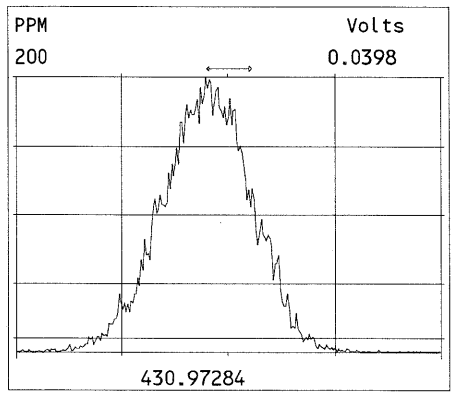


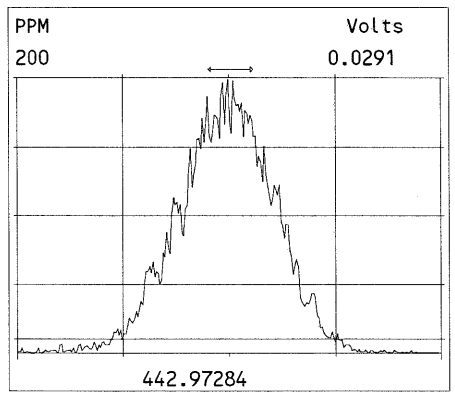




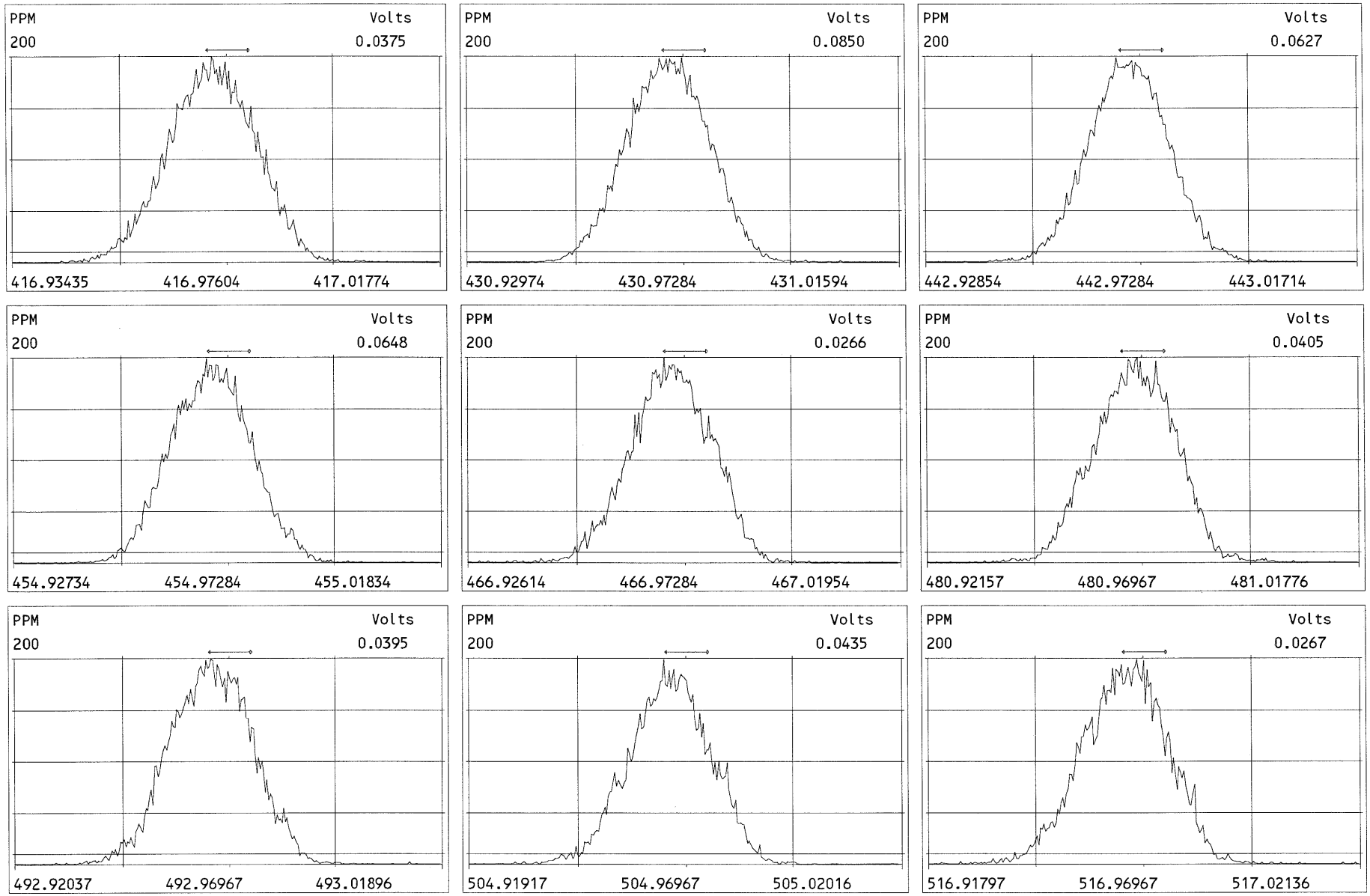




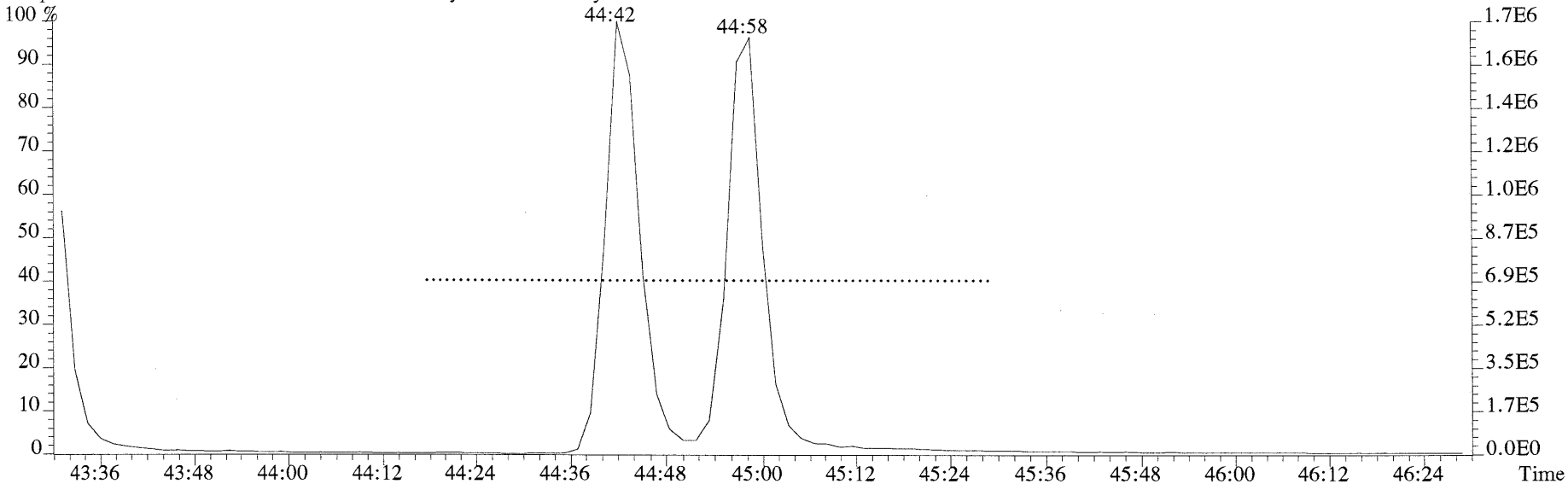




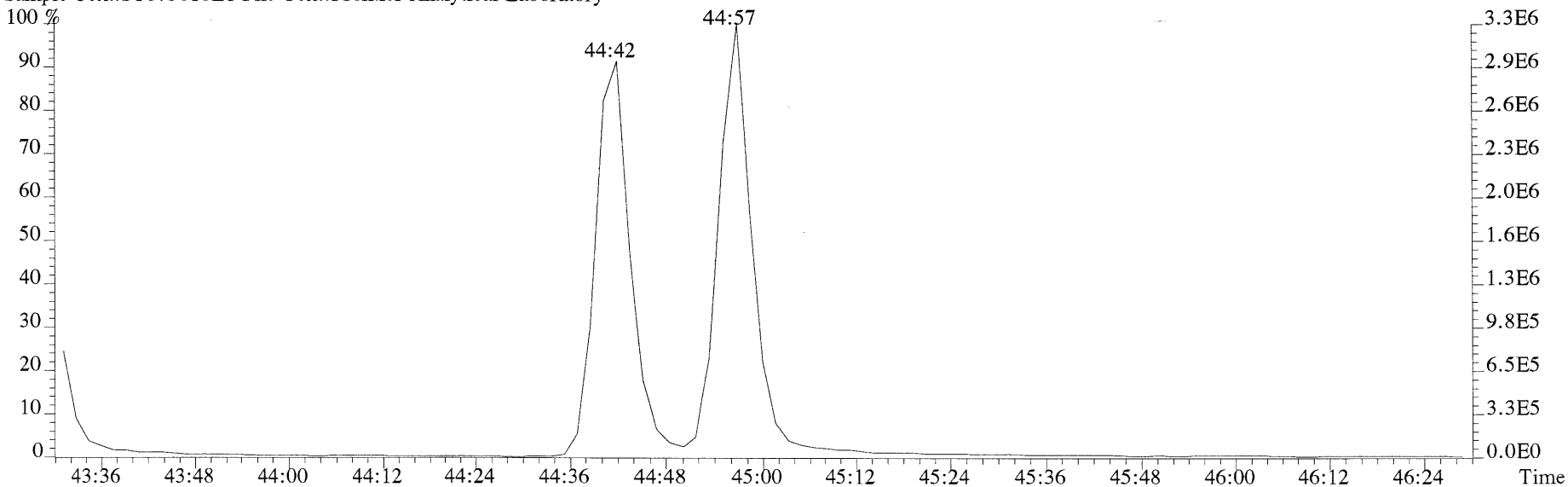
Peak Locate Examination:30-JUL-2018:10:19 File:30JUL18Z
Experiment:1668PCB Function:6 Reference:PFK



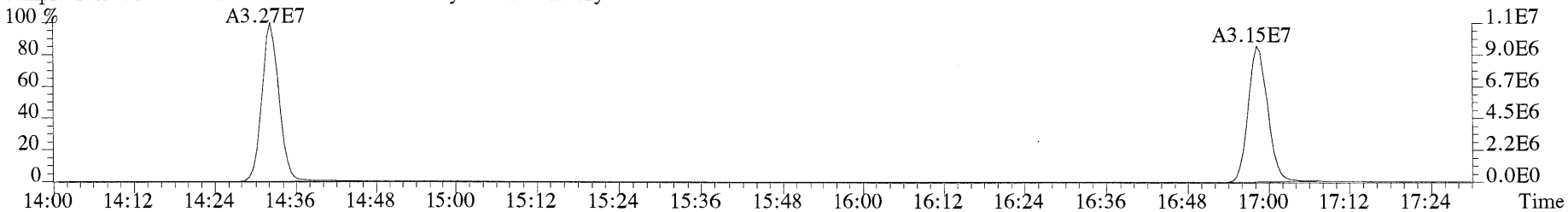
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



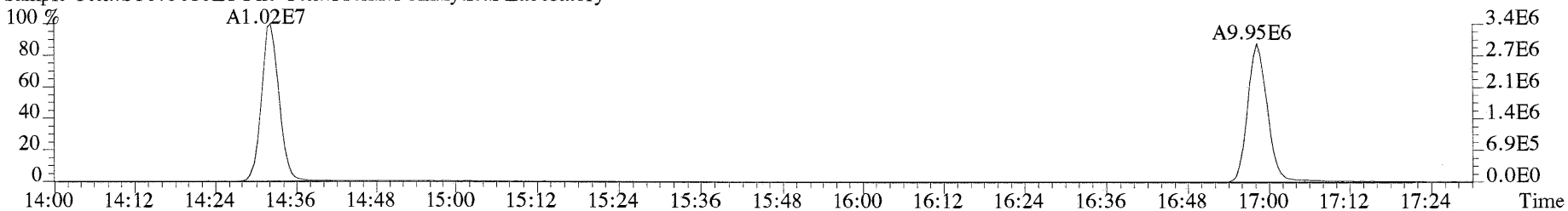
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



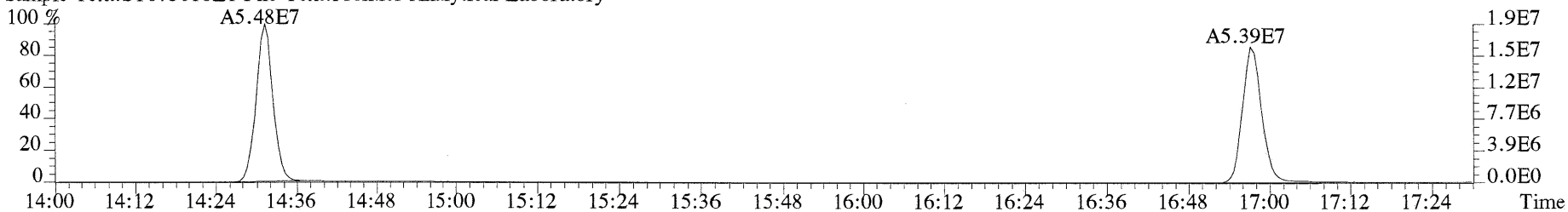
File:30JUL18Z #1-783 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-783 Acq:30-JUL-2018 10:19:43 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:ST073018Z1 File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-783 Acq:30-JUL-2018 10:19:43 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:ST073018Z1 File Text:Frontier Analytical Laboratory



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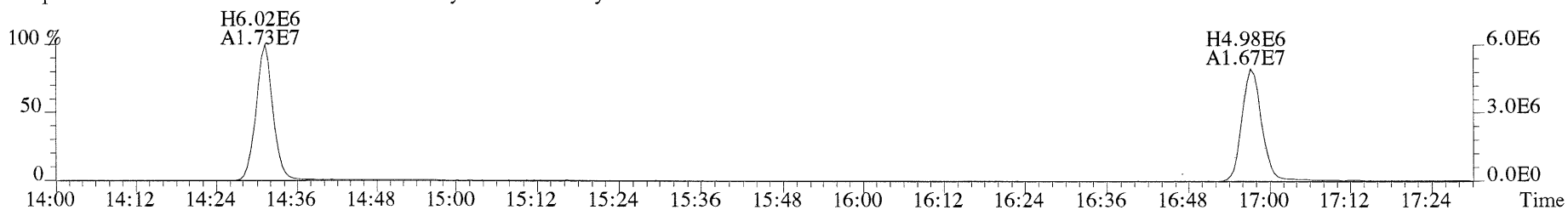
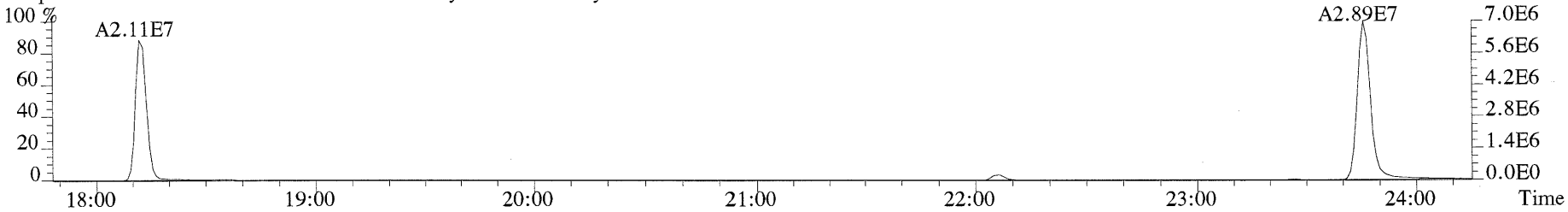
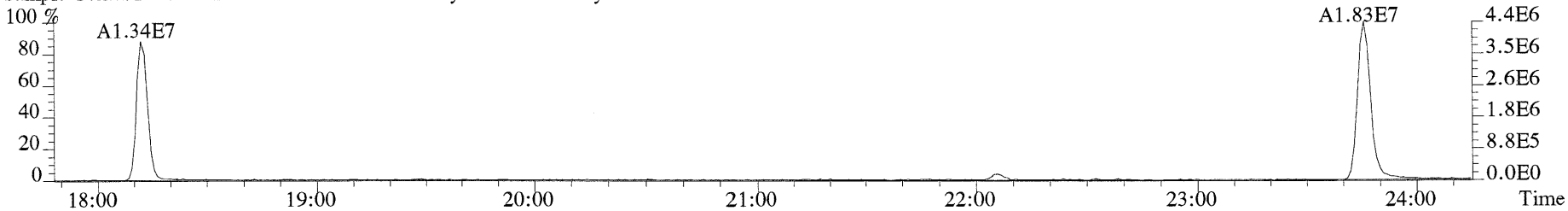
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



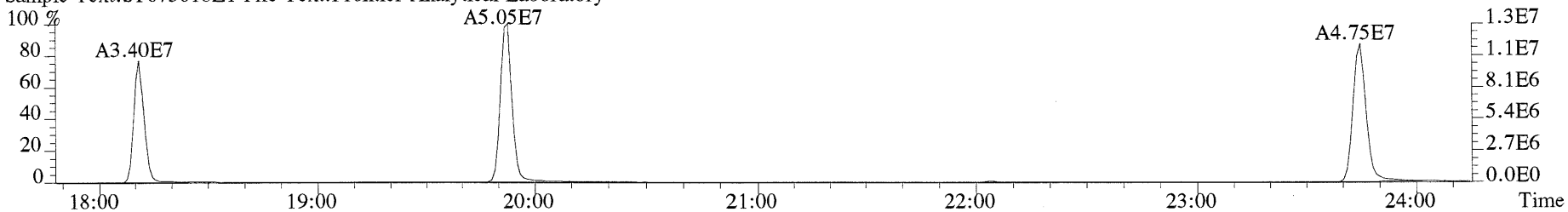
File:30JUL18Z #1-521 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



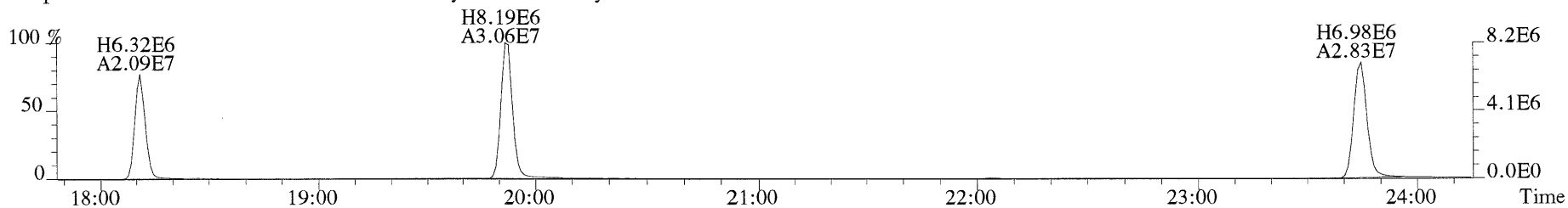
File:30JUL18Z #1-521 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



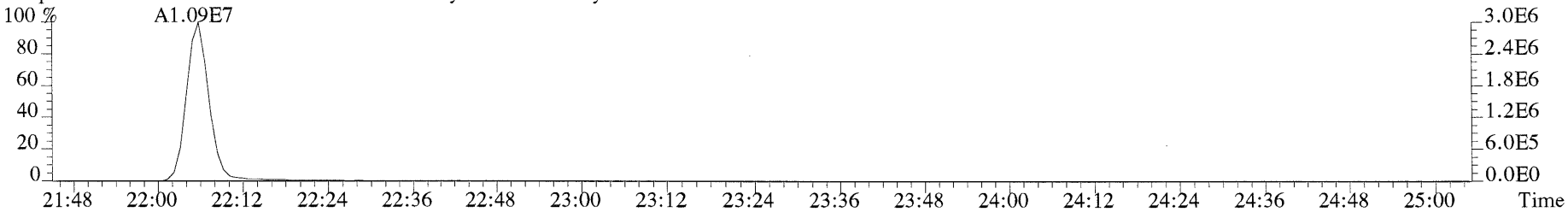
File:30JUL18Z #1-521 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



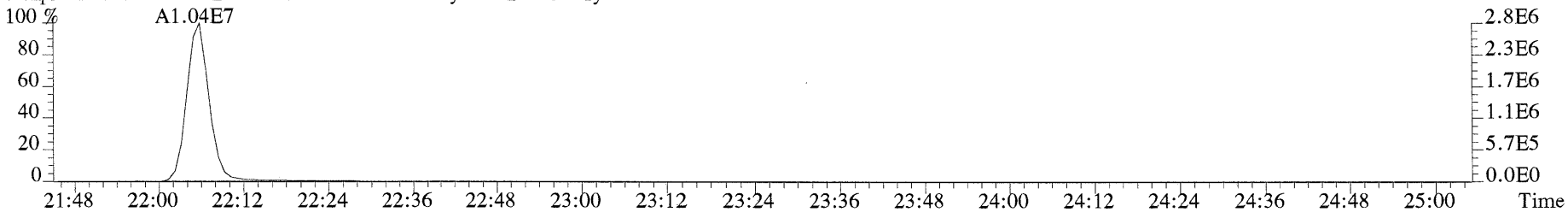
File:30JUL18Z #1-521 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



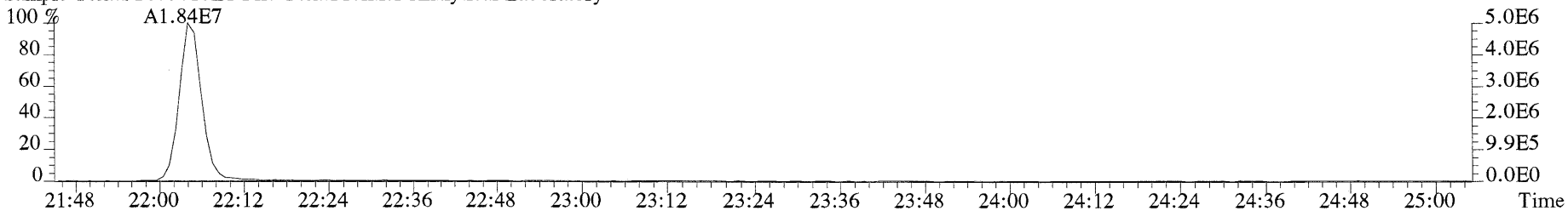
File:30JUL18Z #1-521 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



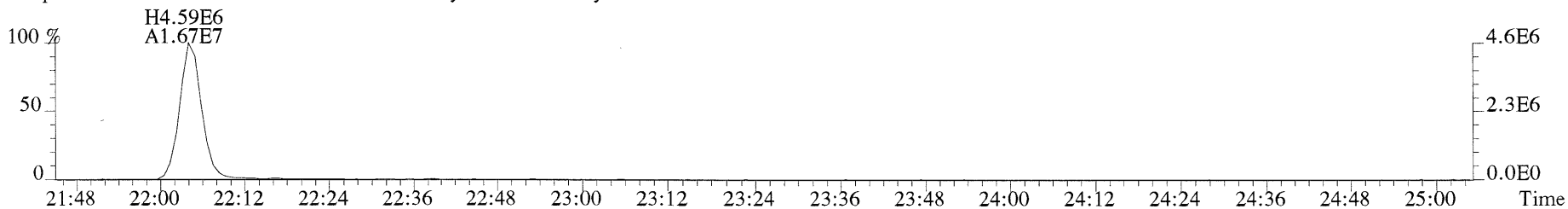
File:30JUL18Z #1-521 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



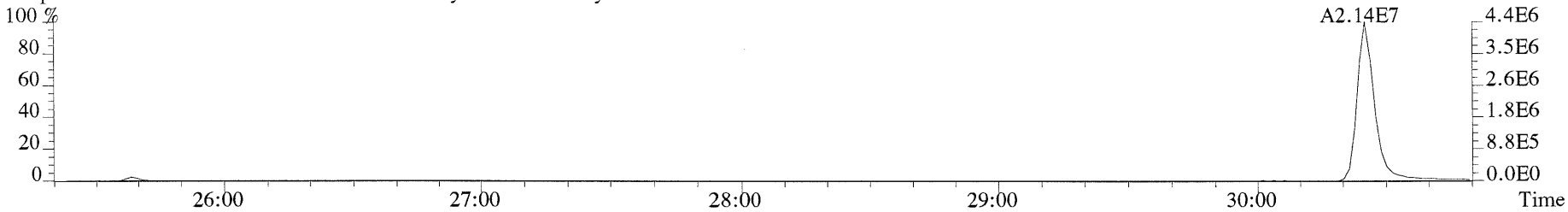
File:30JUL18Z #1-521 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



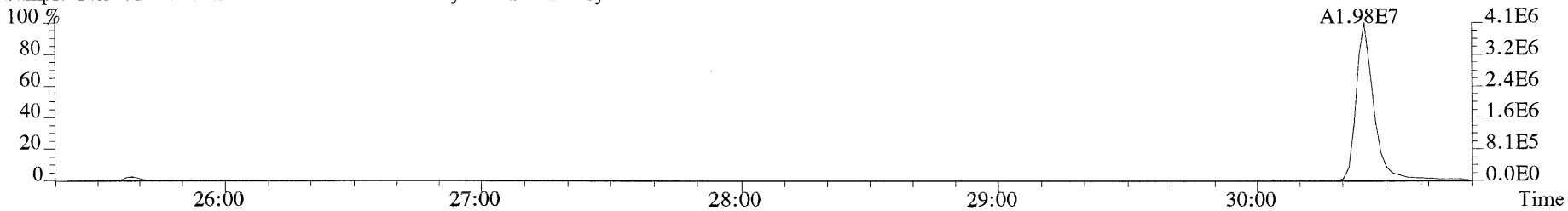
File:30JUL18Z #1-521 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



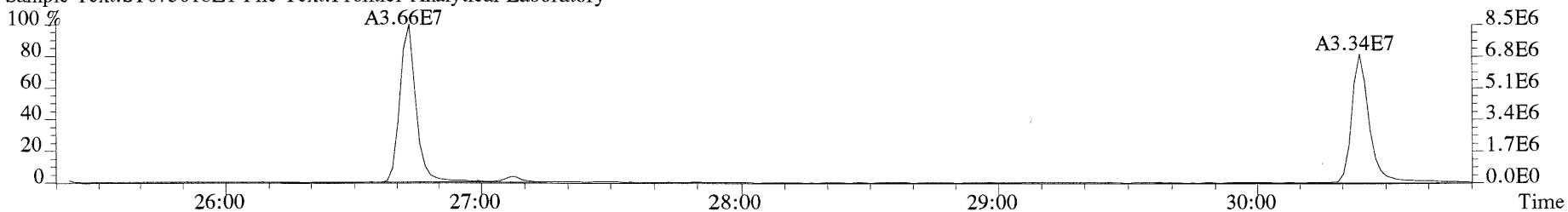
File:30JUL18Z #1-401 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



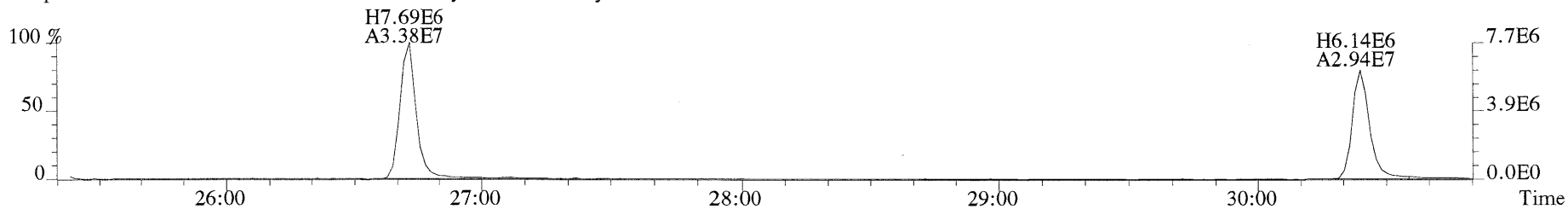
File:30JUL18Z #1-401 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



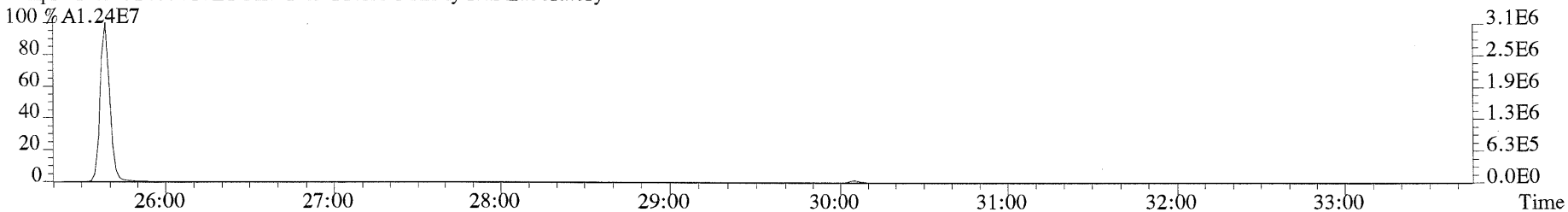
File:30JUL18Z #1-401 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



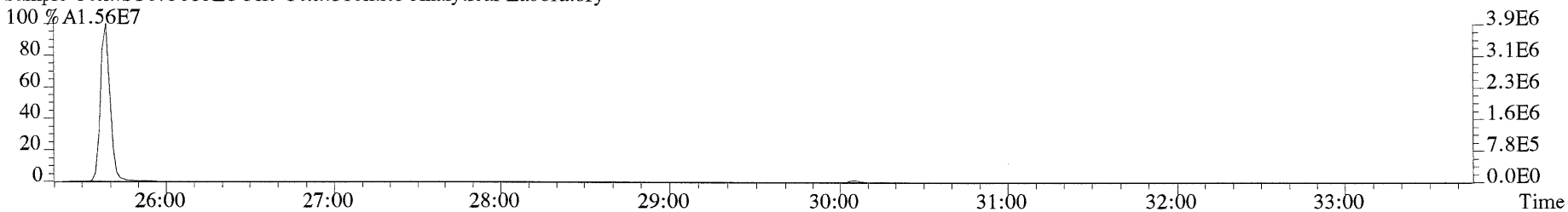
File:30JUL18Z #1-401 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



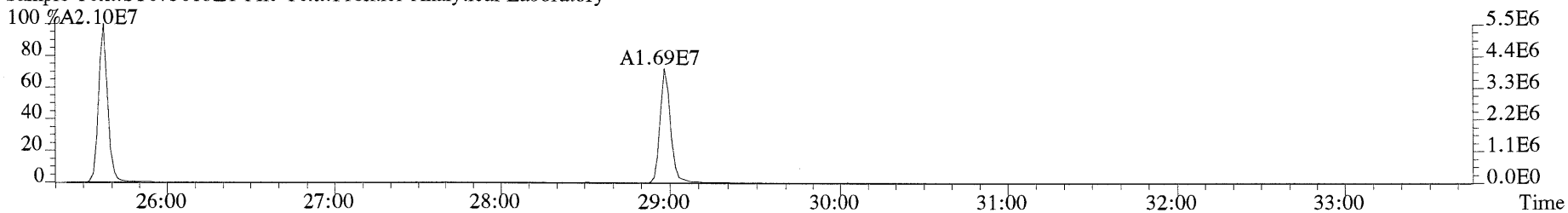
File:30JUL18Z #1-401 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



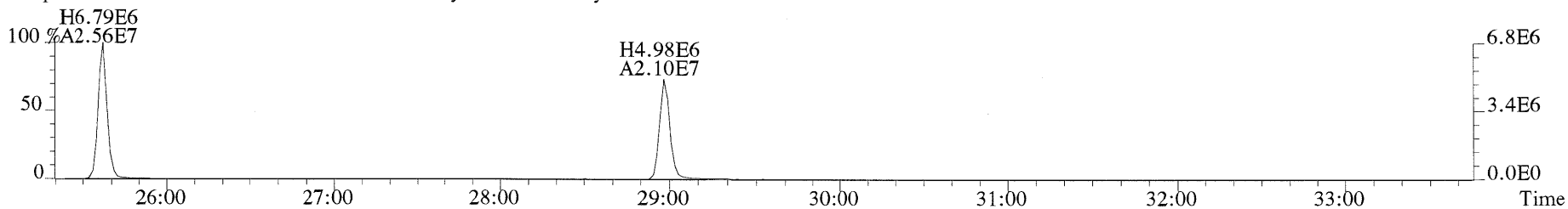
File:30JUL18Z #1-401 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



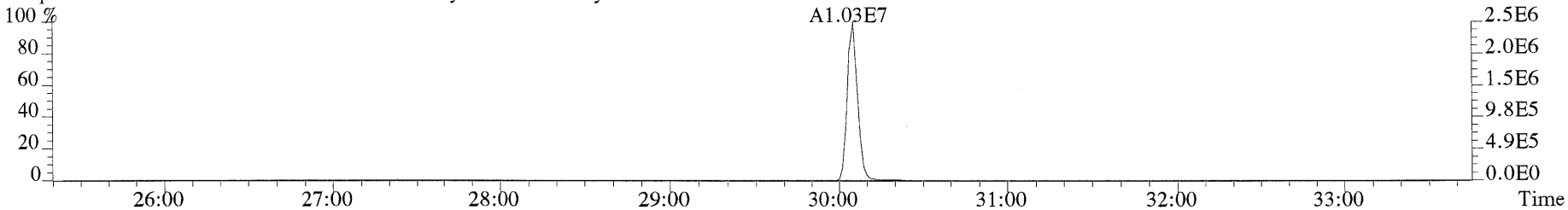
File:30JUL18Z #1-401 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



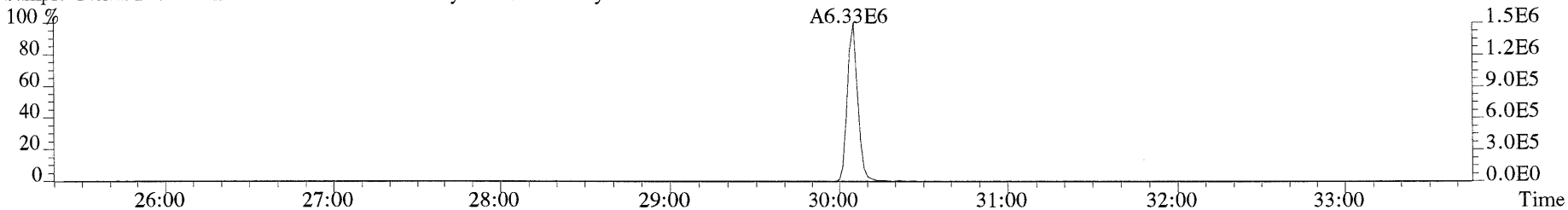
File:30JUL18Z #1-401 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



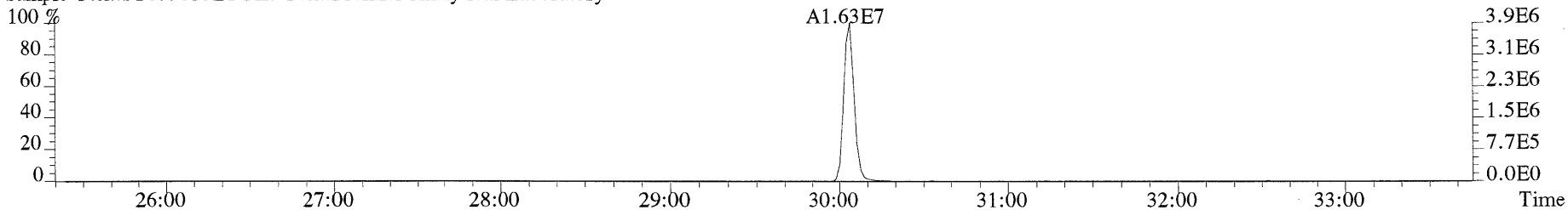
File:30JUL18Z #1-401 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



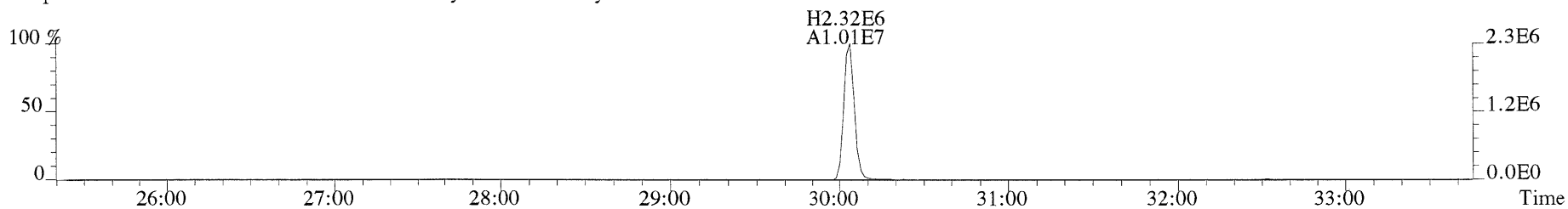
File:30JUL18Z #1-401 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



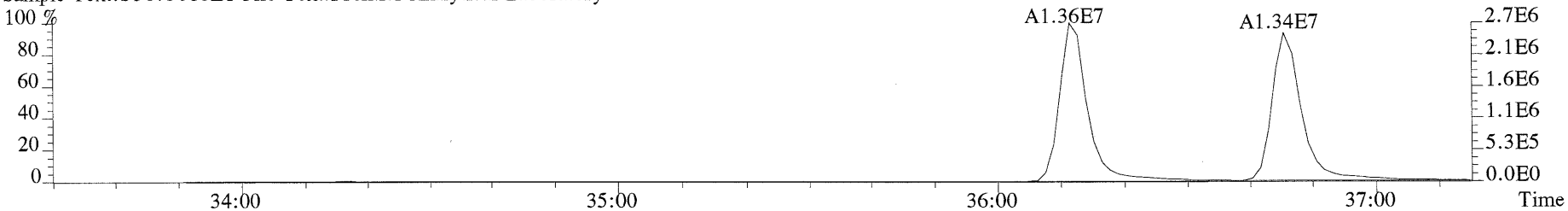
File:30JUL18Z #1-401 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



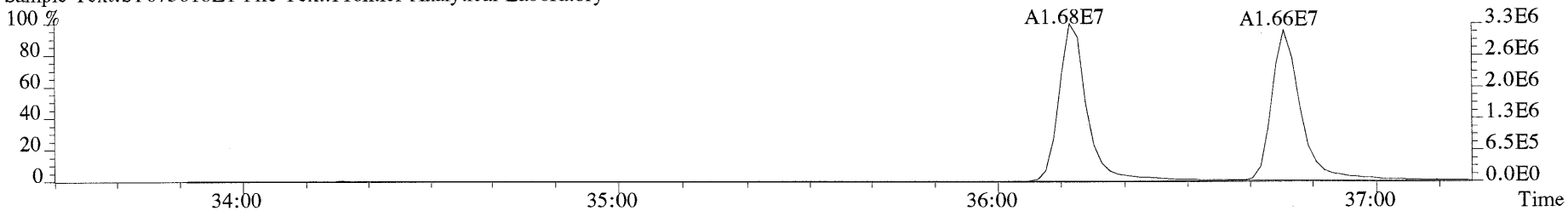
File:30JUL18Z #1-401 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



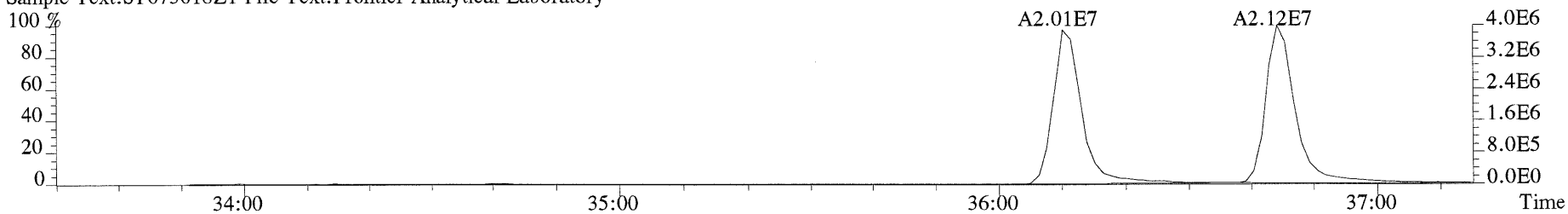
File:30JUL18Z #1-183 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



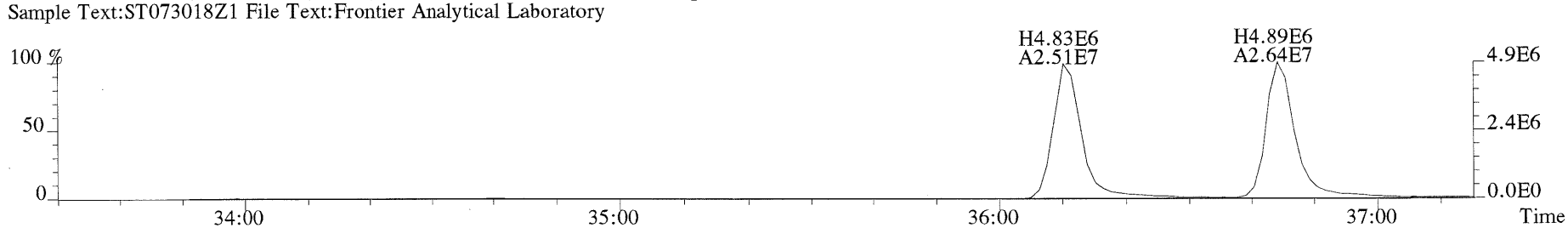
File:30JUL18Z #1-183 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



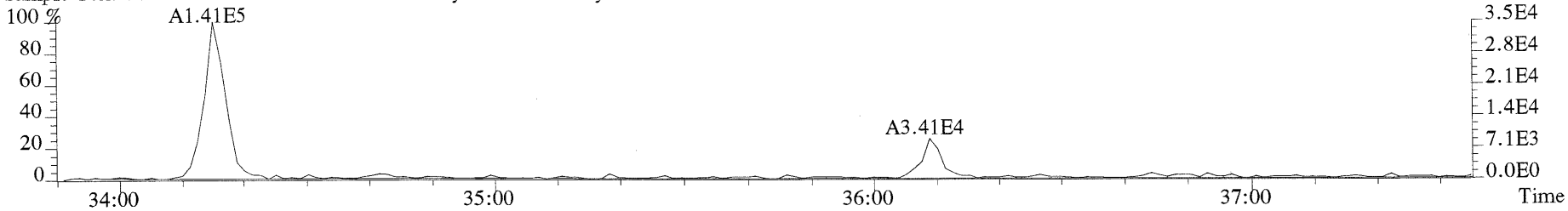
File:30JUL18Z #1-183 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



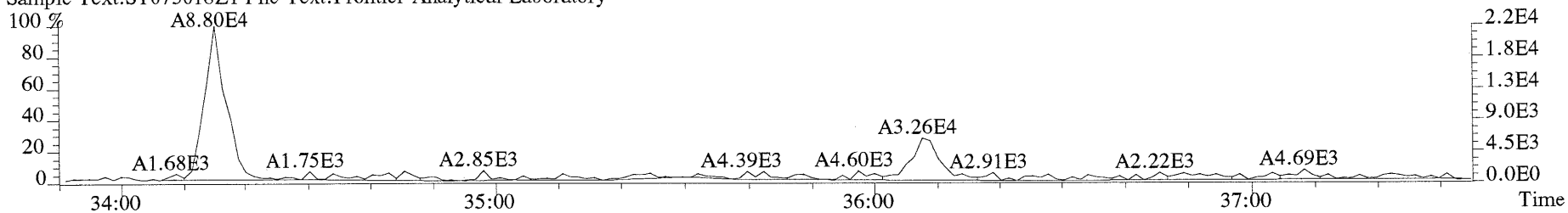
File:30JUL18Z #1-183 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



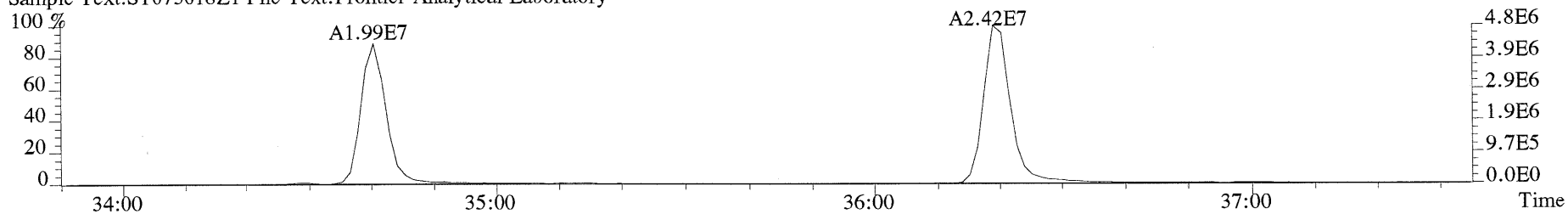
File:30JUL18Z #1-183 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



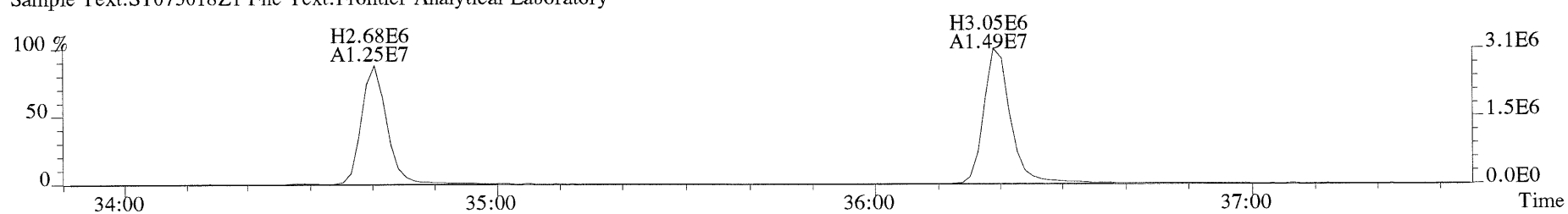
File:30JUL18Z #1-183 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



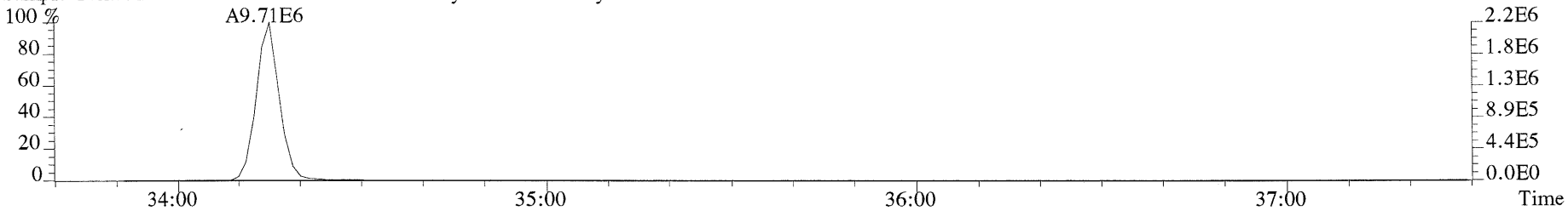
File:30JUL18Z #1-183 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



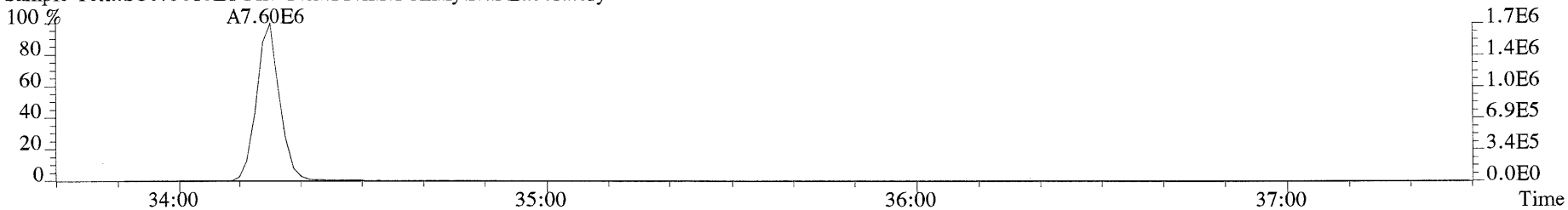
File:30JUL18Z #1-183 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



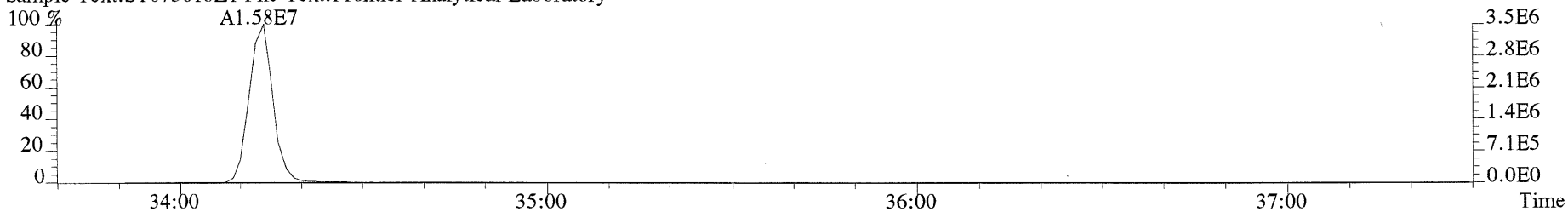
File:30JUL18Z #1-183 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



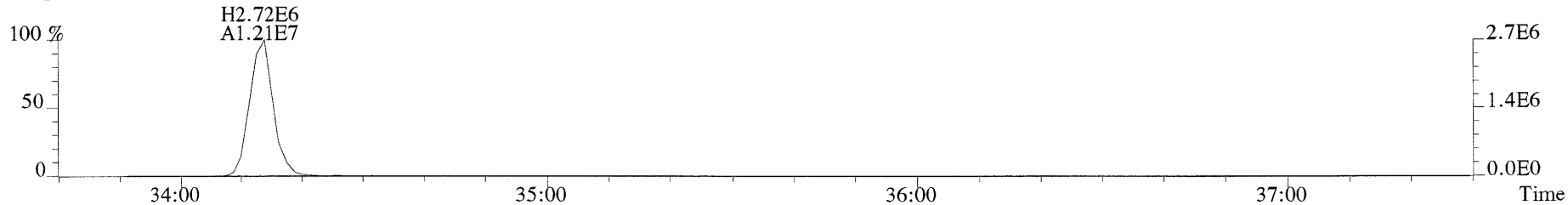
File:30JUL18Z #1-183 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



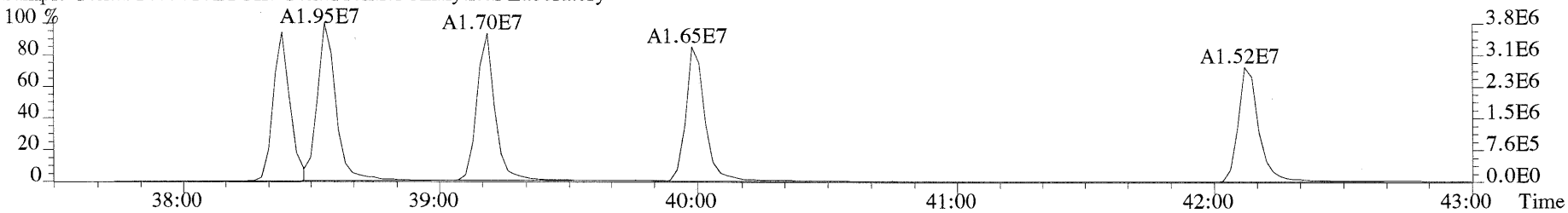
File:30JUL18Z #1-183 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



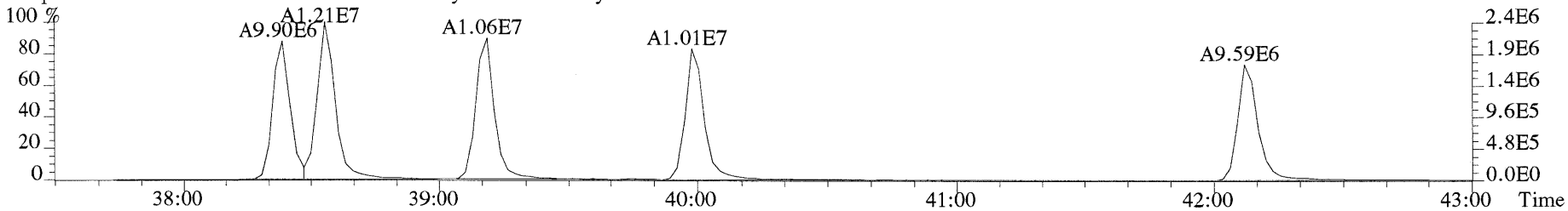
File:30JUL18Z #1-183 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



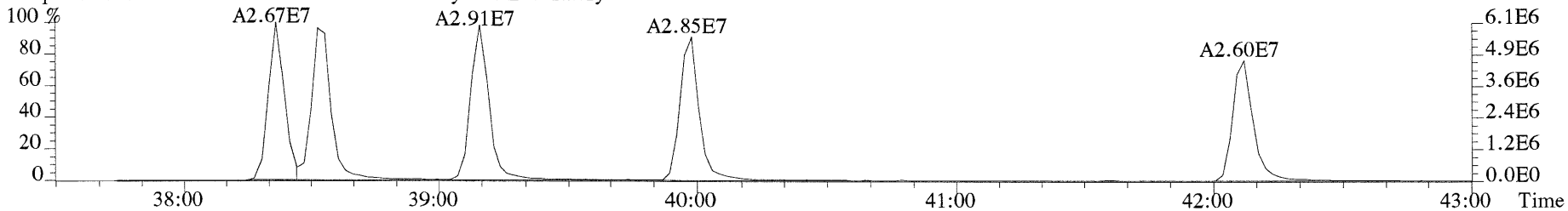
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



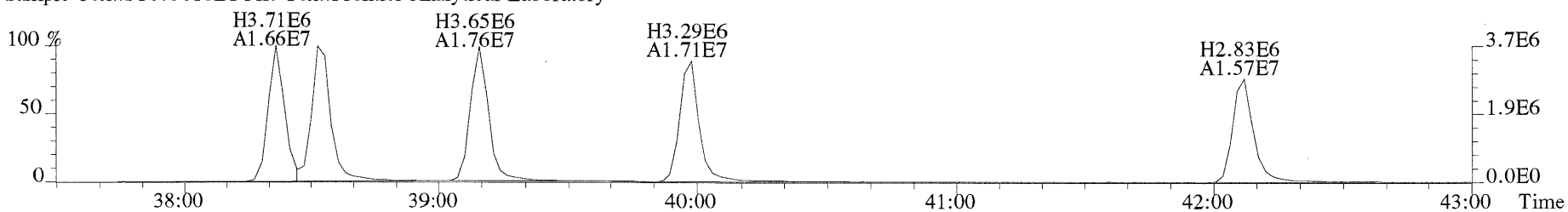
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



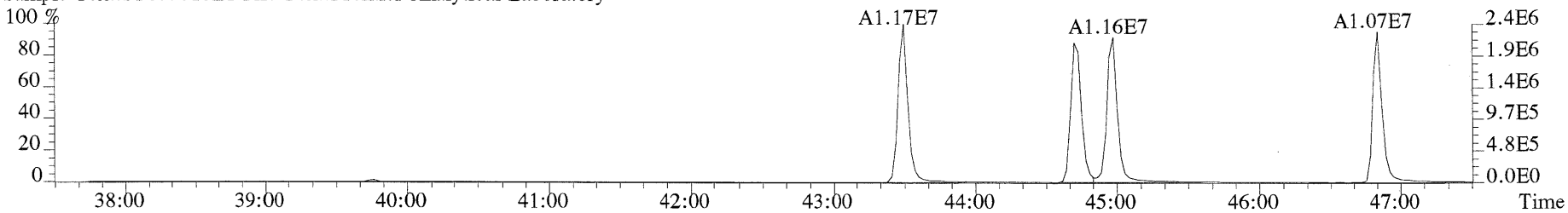
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



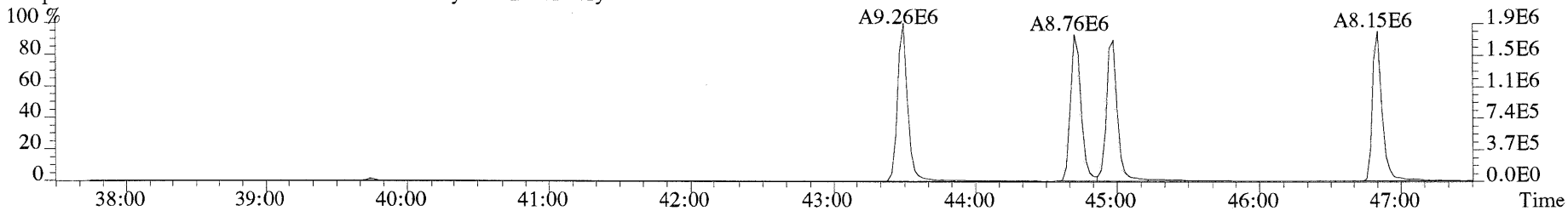
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



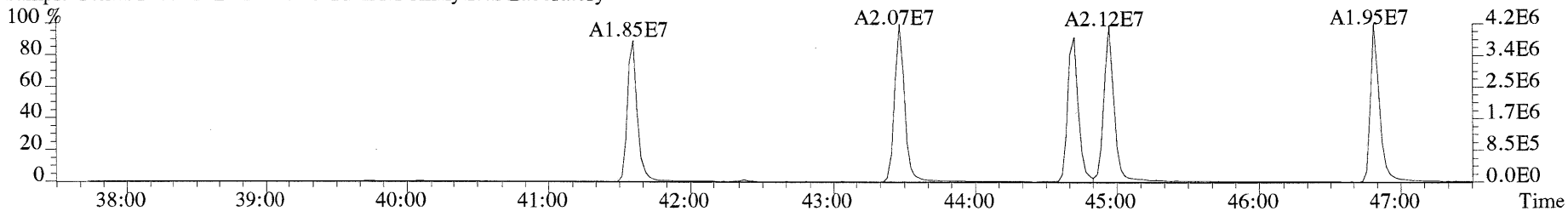
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



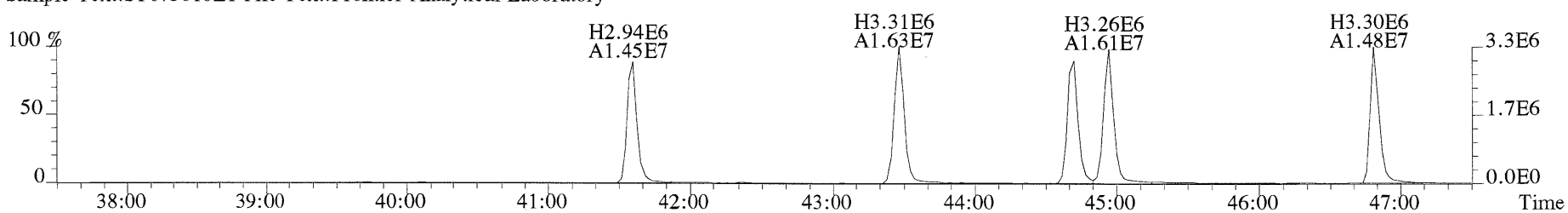
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



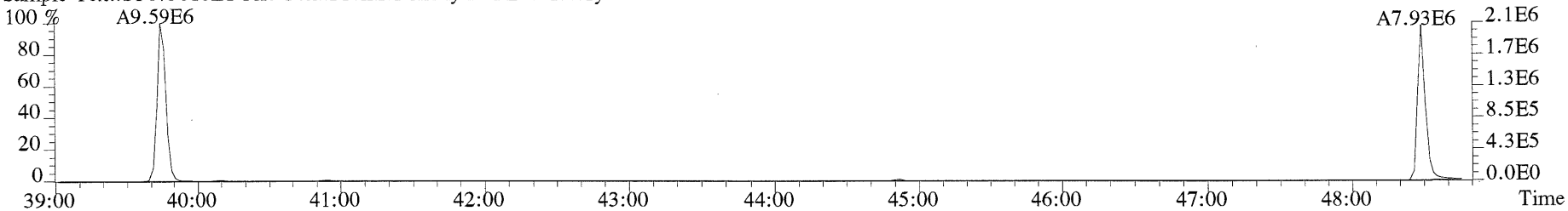
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



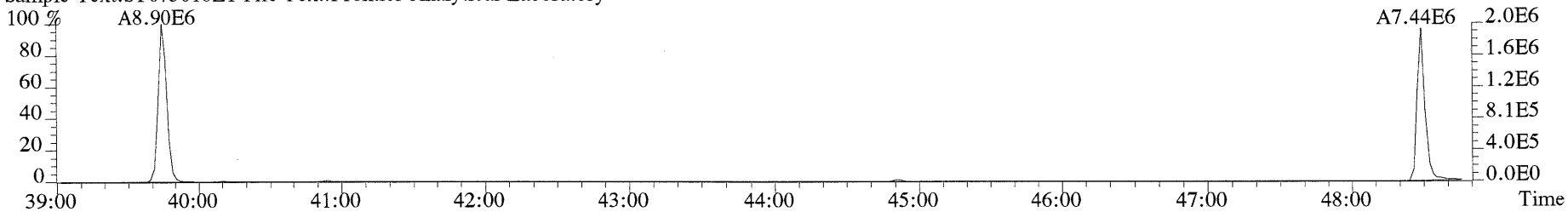
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



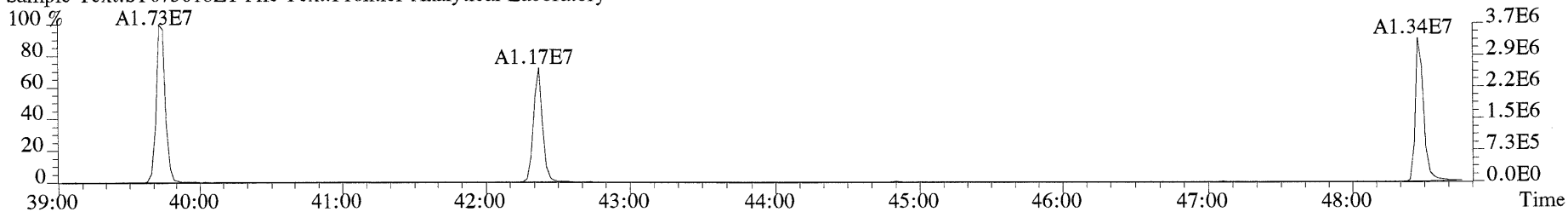
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



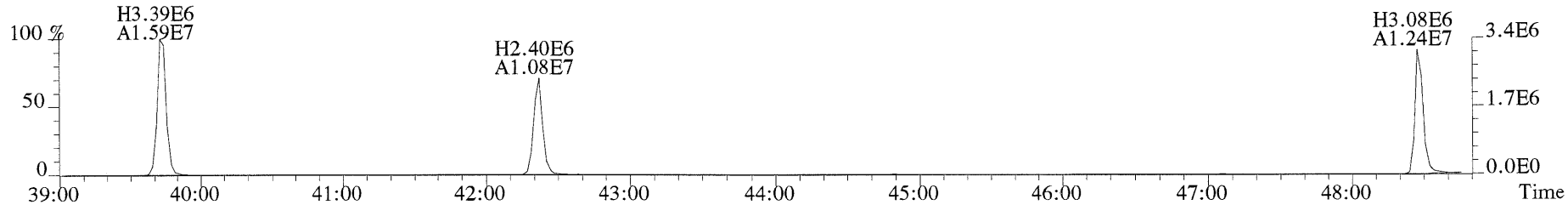
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



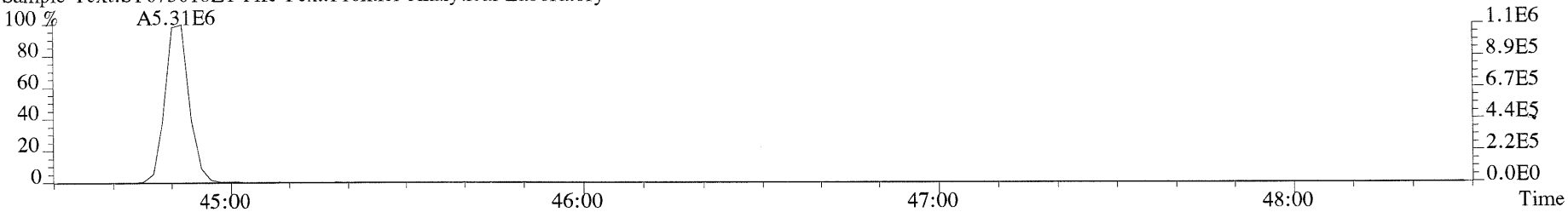
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



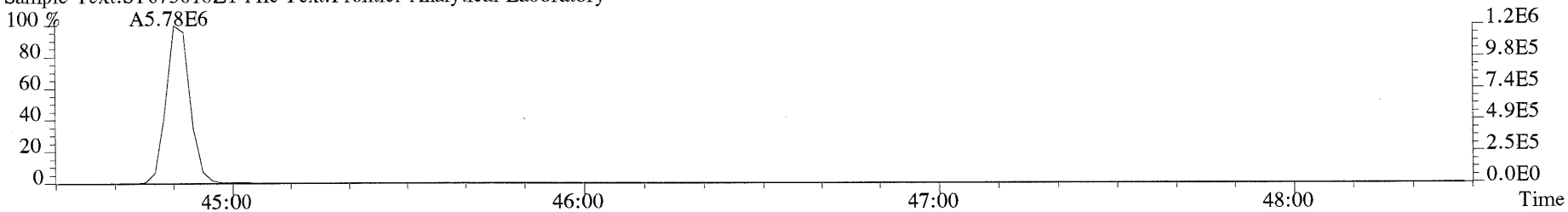
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



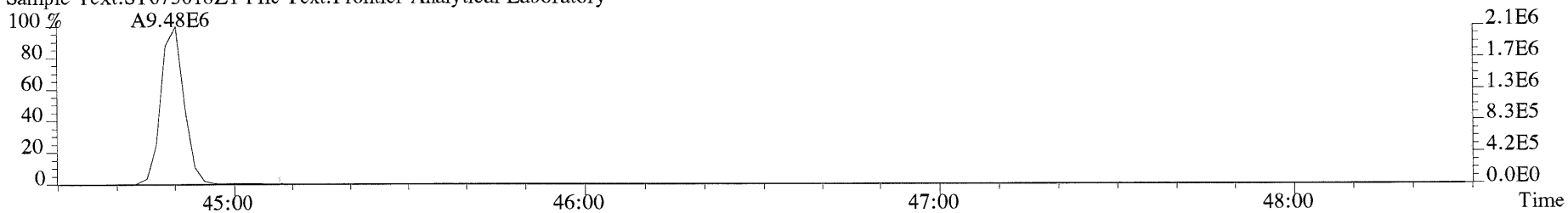
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



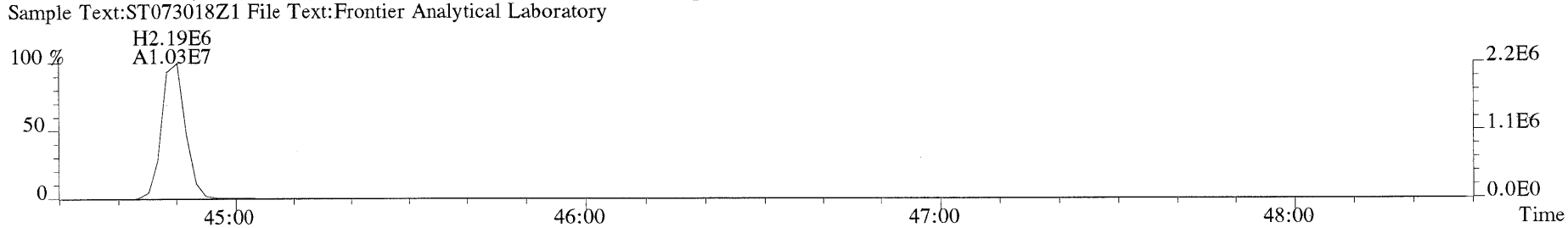
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



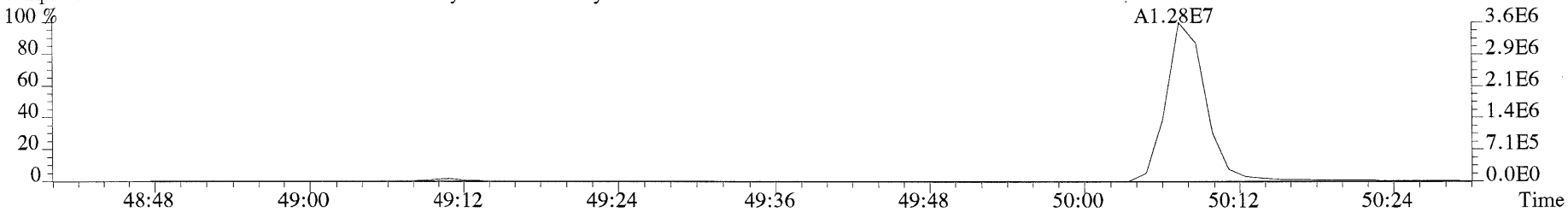
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



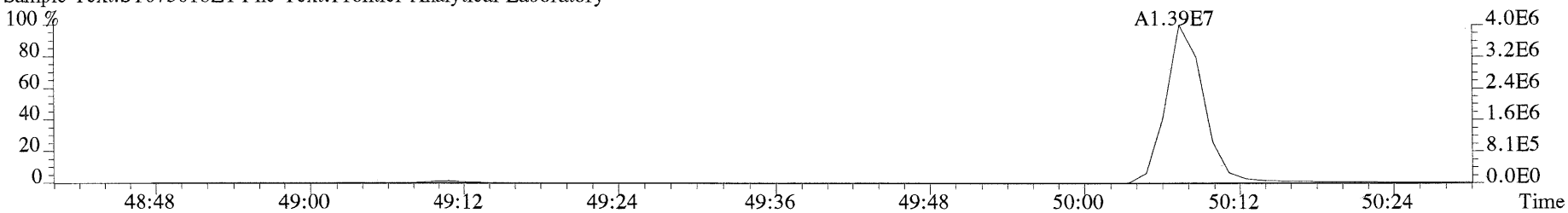
File:30JUL18Z #1-403 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



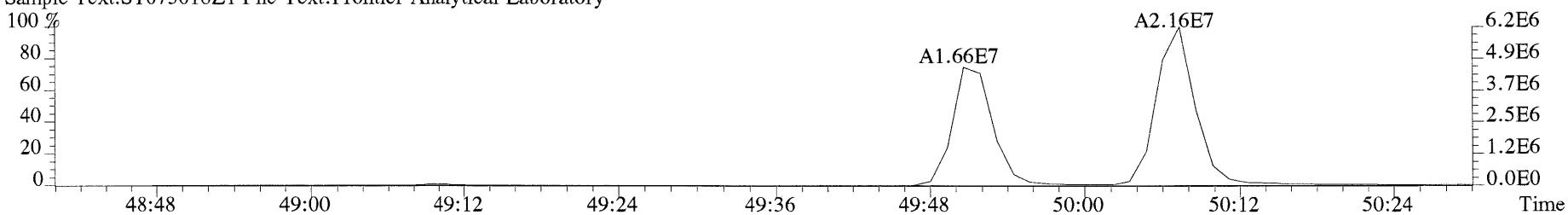
File:30JUL18Z #1-315 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



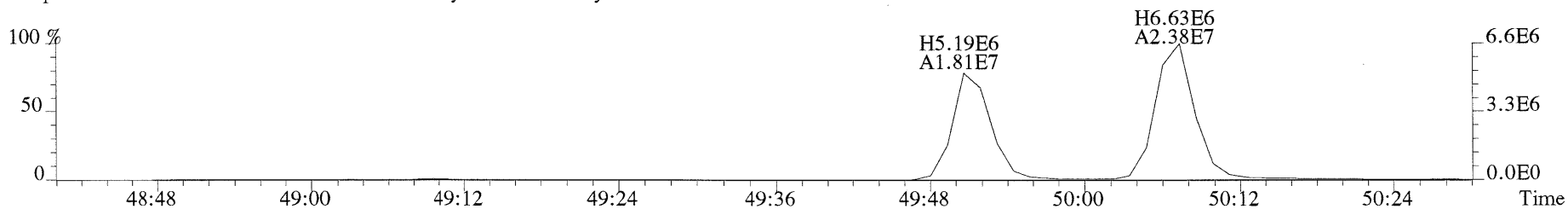
File:30JUL18Z #1-315 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



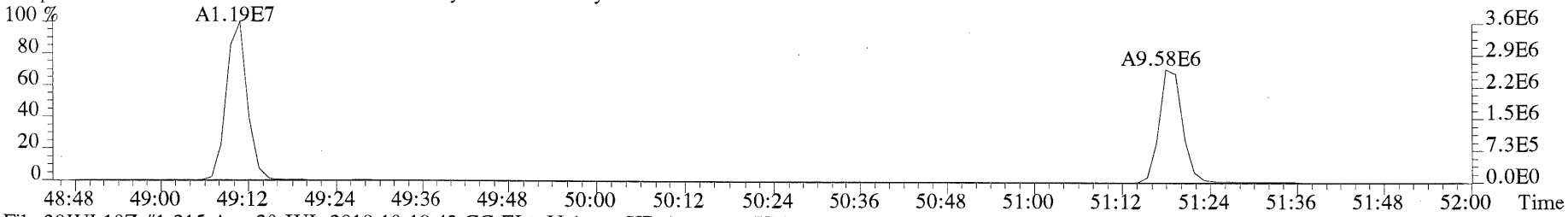
File:30JUL18Z #1-315 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



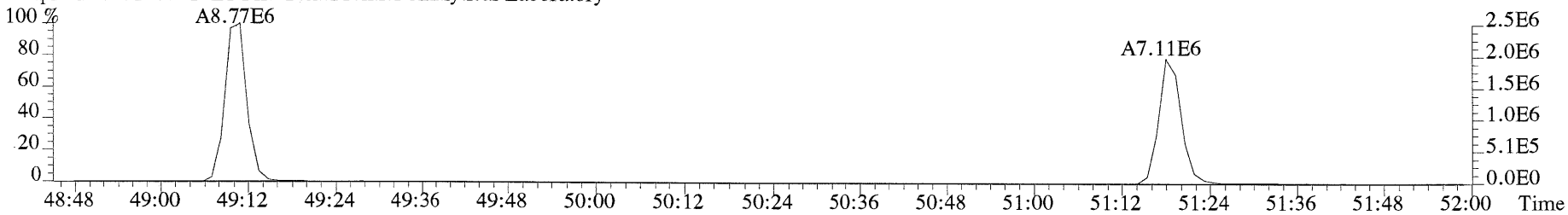
File:30JUL18Z #1-315 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



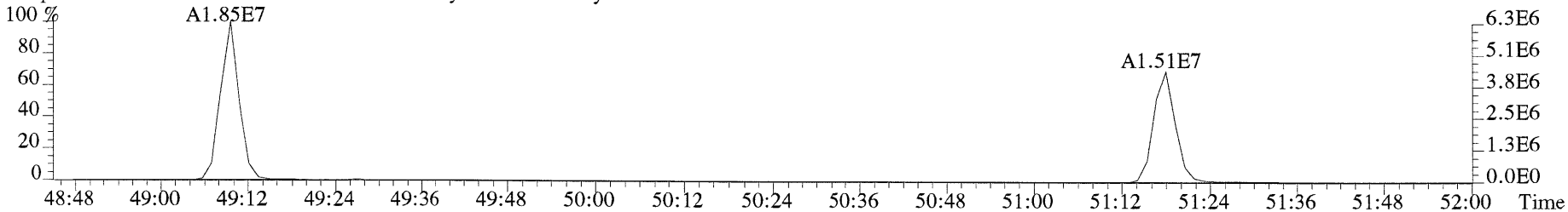
File:30JUL18Z #1-315 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



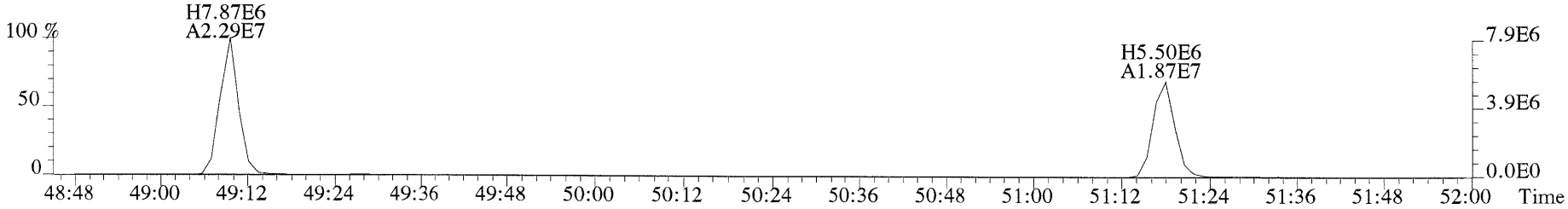
File:30JUL18Z #1-315 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



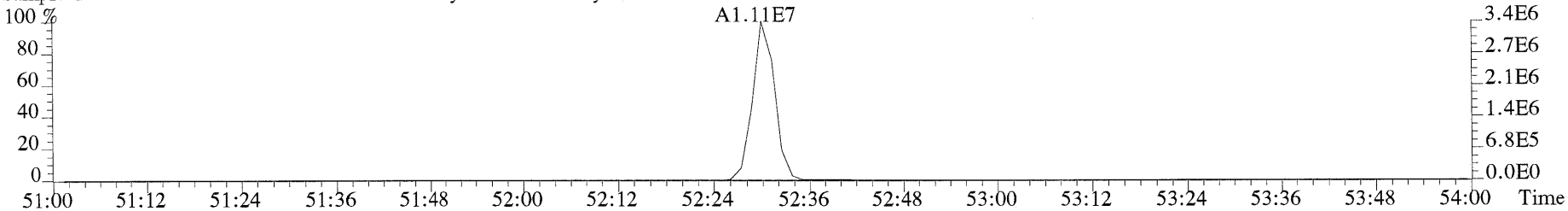
File:30JUL18Z #1-315 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



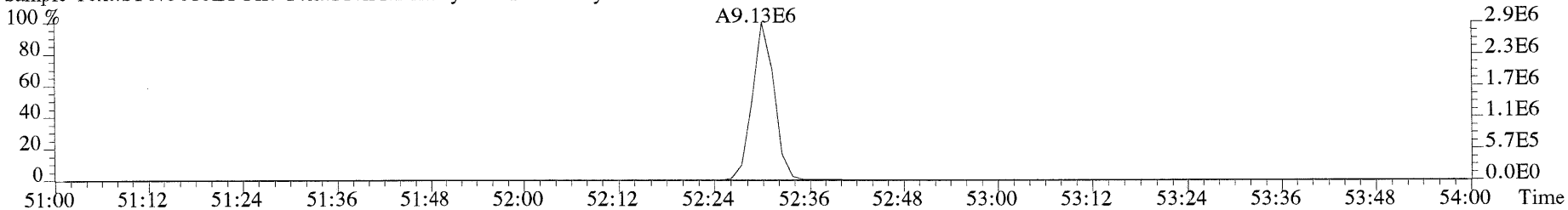
File:30JUL18Z #1-315 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



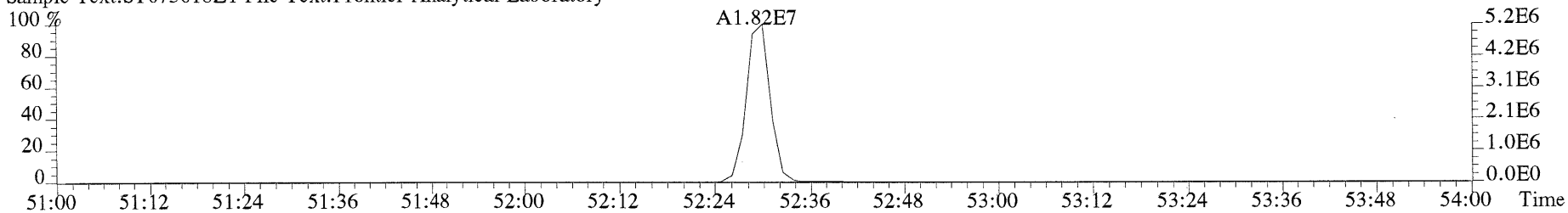
File:30JUL18Z #1-315 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



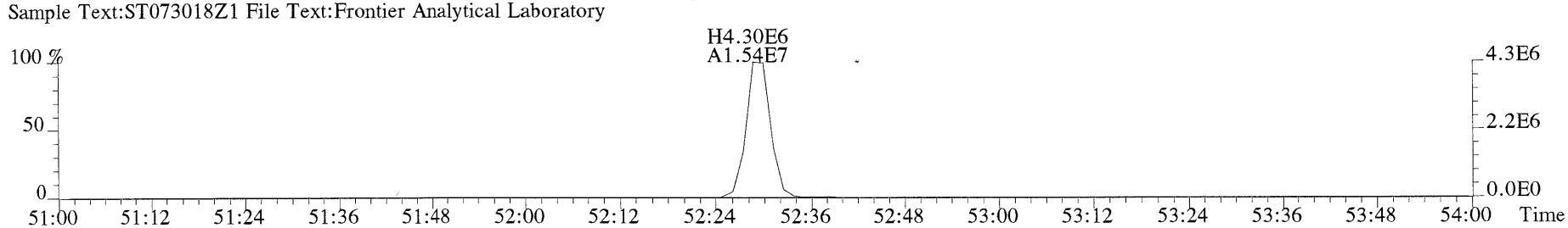
File:30JUL18Z #1-315 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory



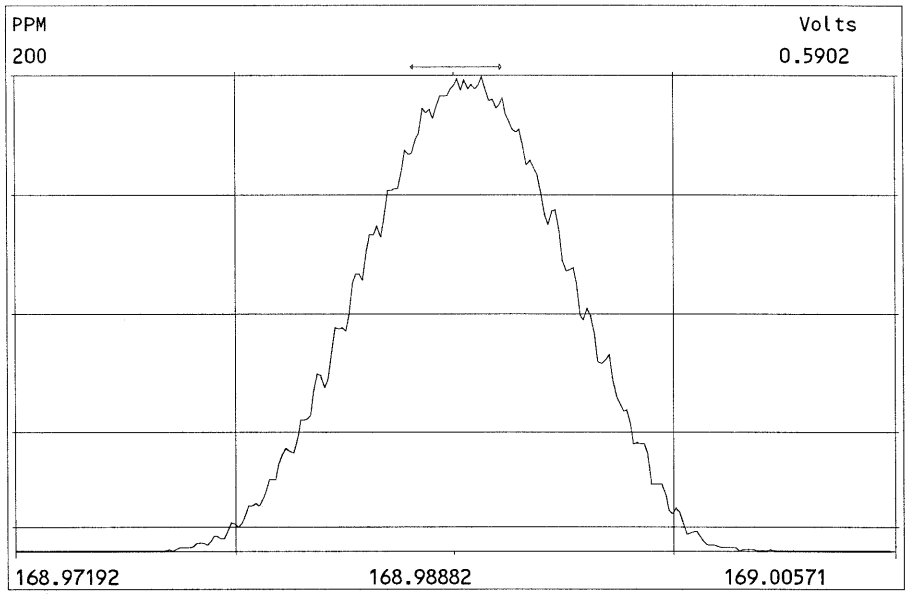
File:30JUL18Z #1-315 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory

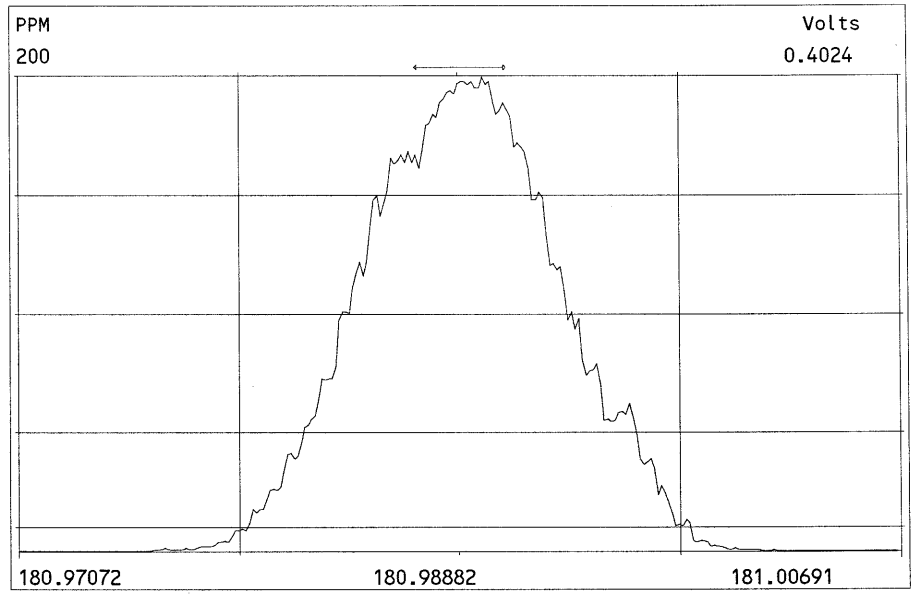


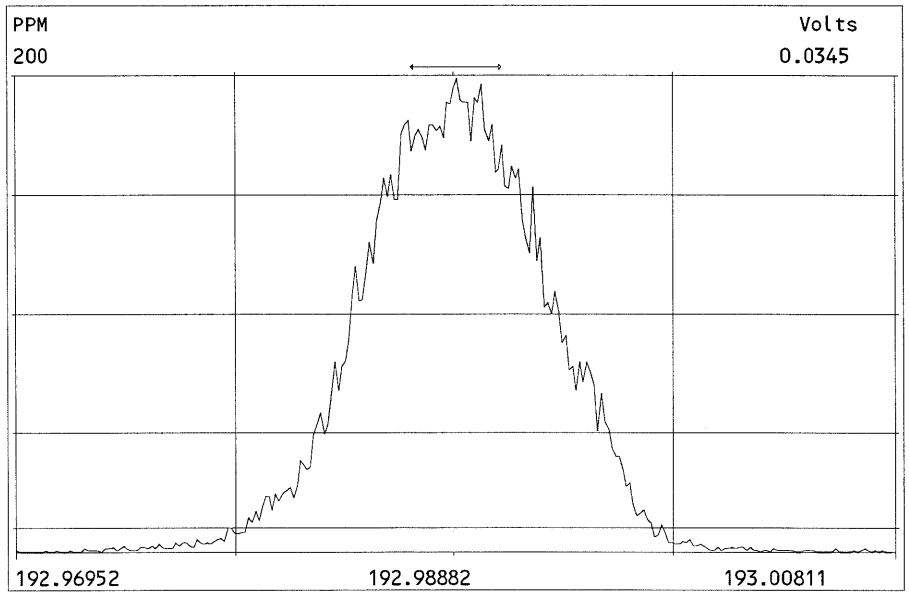
File:30JUL18Z #1-315 Acq:30-JUL-2018 10:19:43 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z1 File Text:Frontier Analytical Laboratory

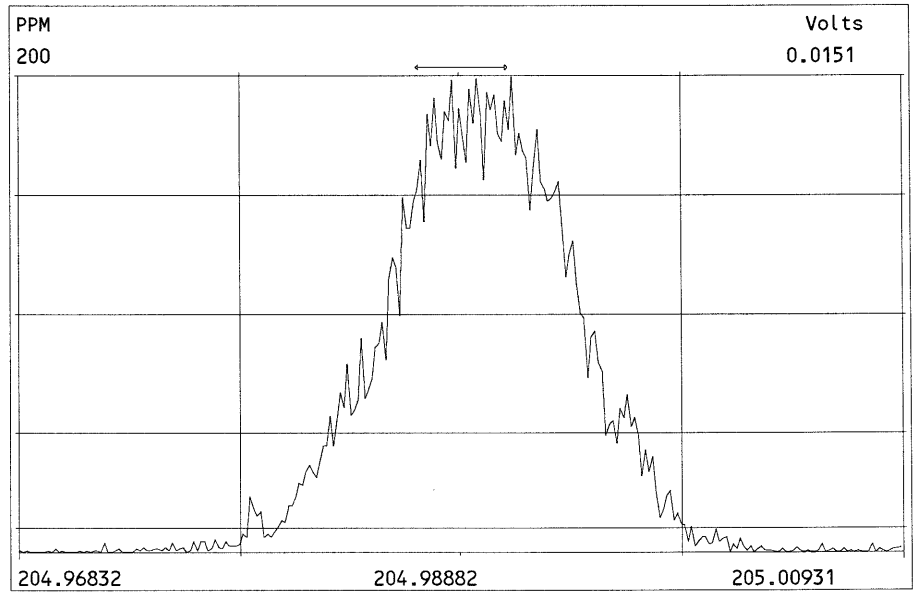


Peak Locate Examination:31-JUL-2018:02:25 File:30JUL18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

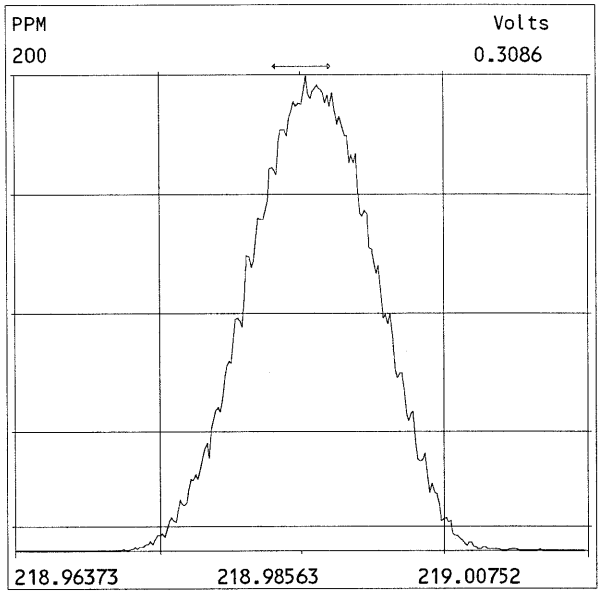


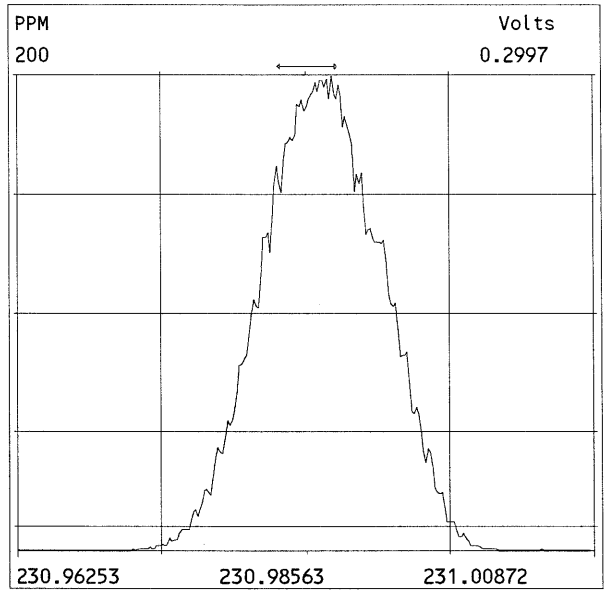


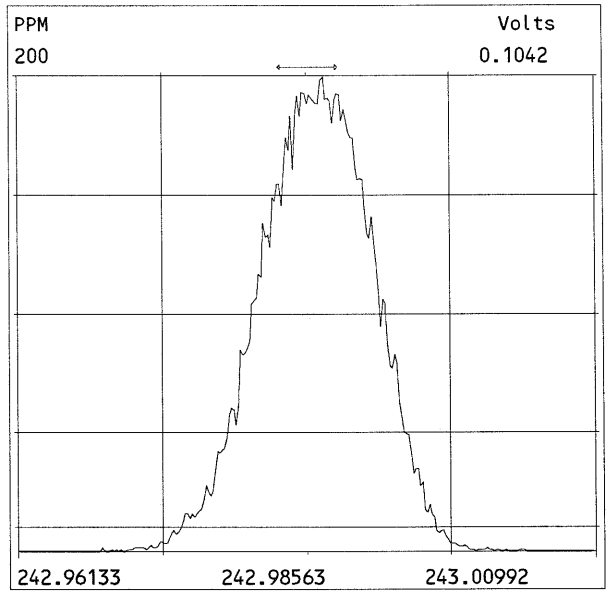


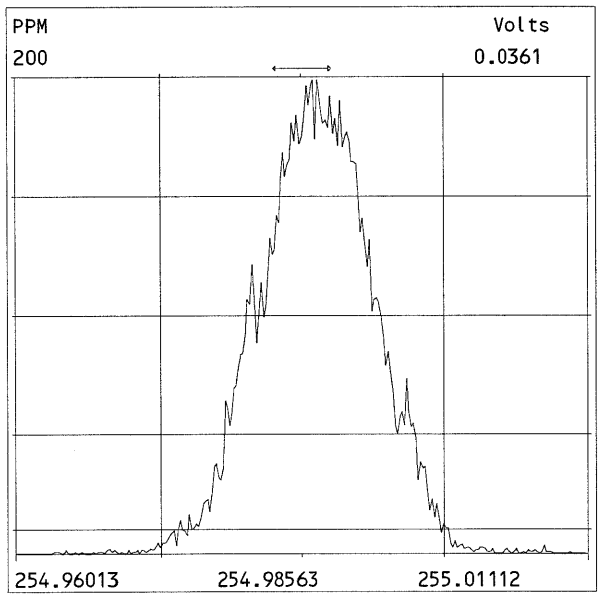


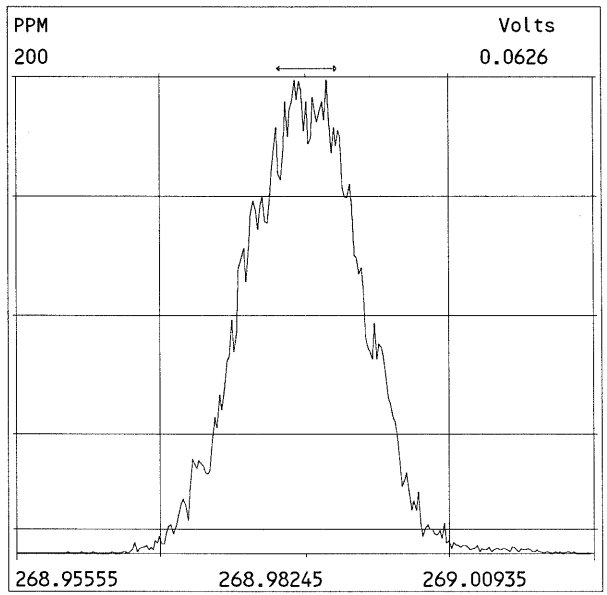
Peak Locate Examination:31-JUL-2018:02:28 File:30JUL18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

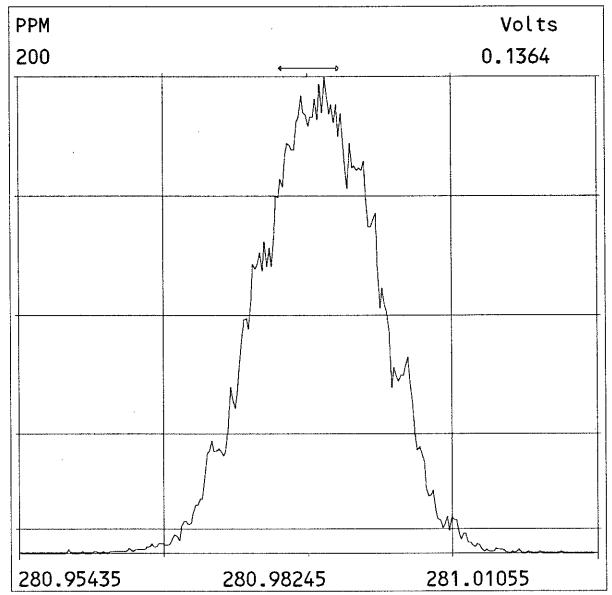




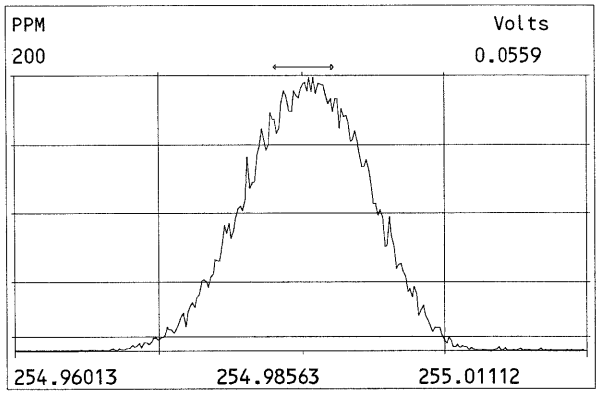


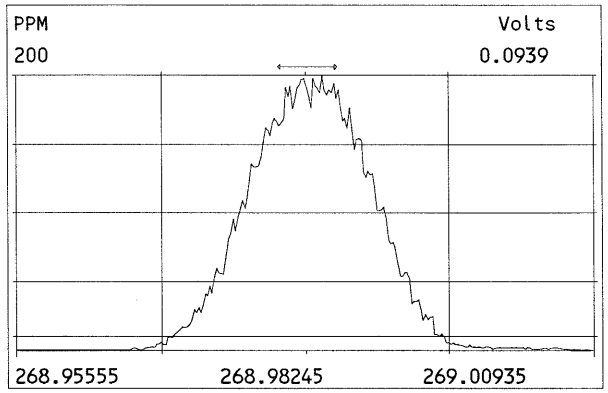


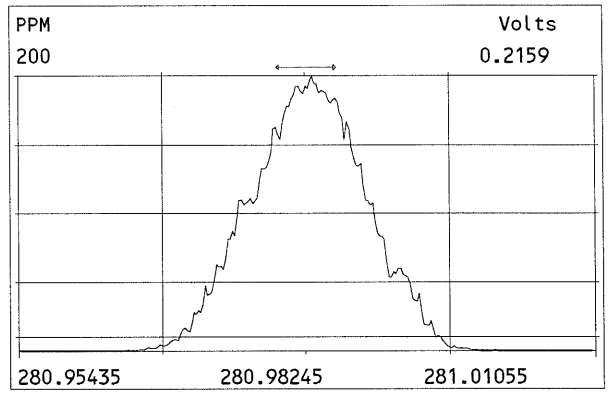


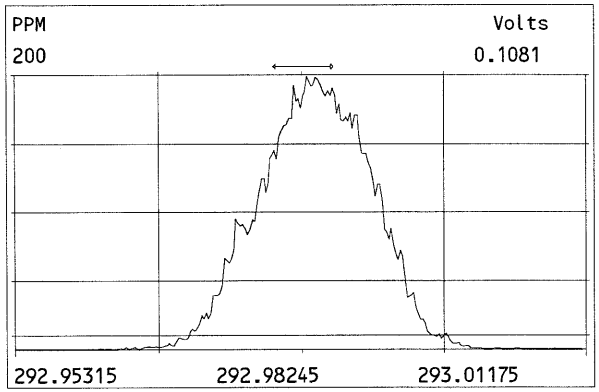


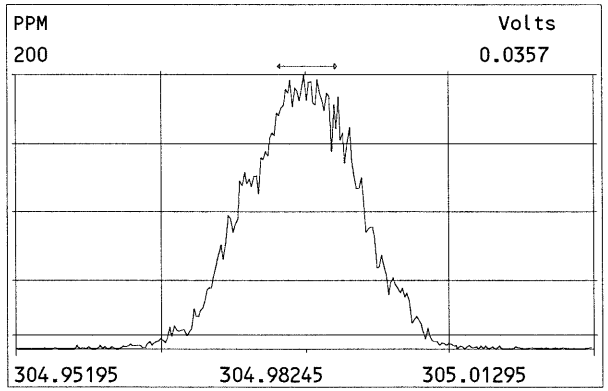
Peak Locate Examination:31-JUL-2018:02:30 File:30JUL18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

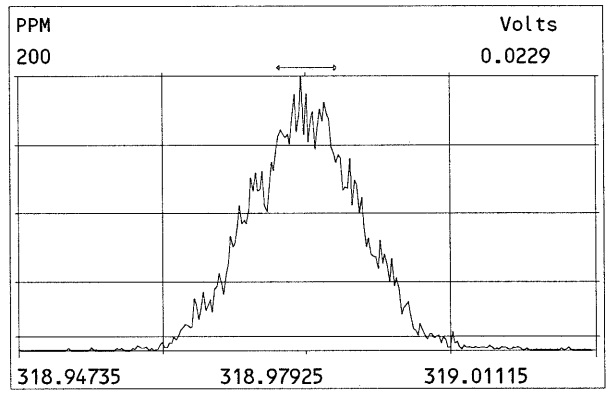


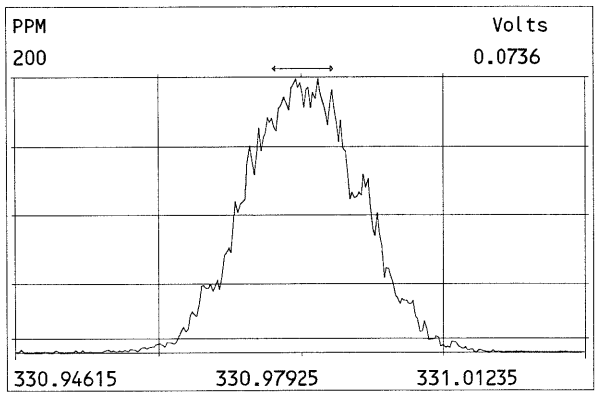


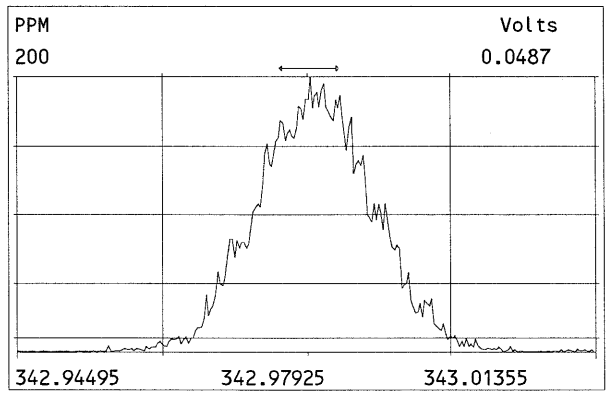




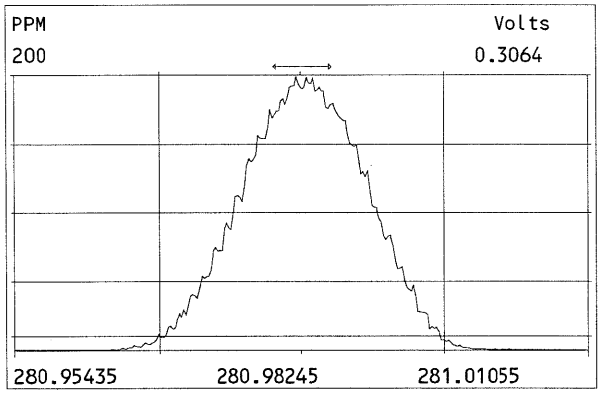


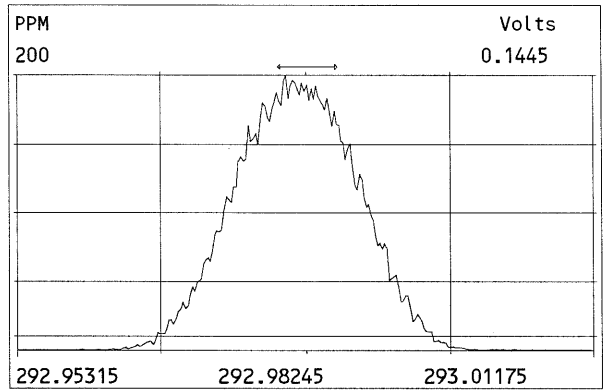


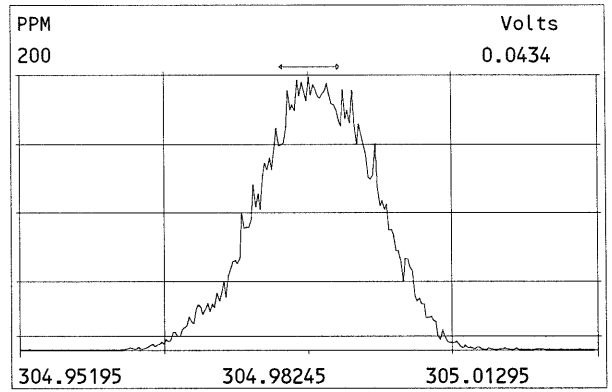


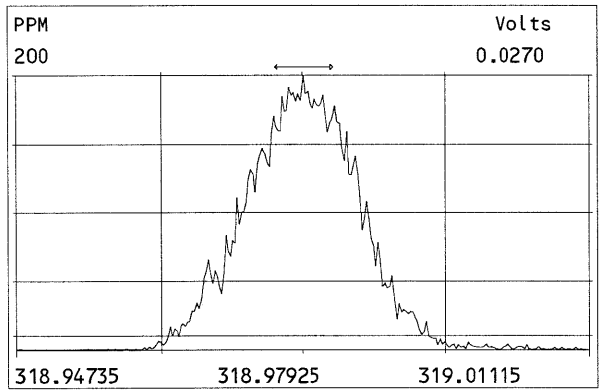


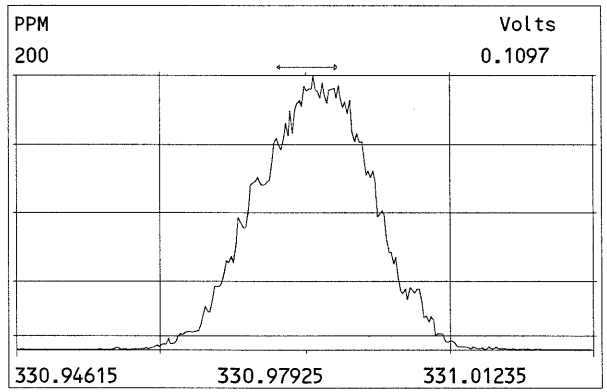
Peak Locate Examination:31-JUL-2018:02:32 File:30JUL18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

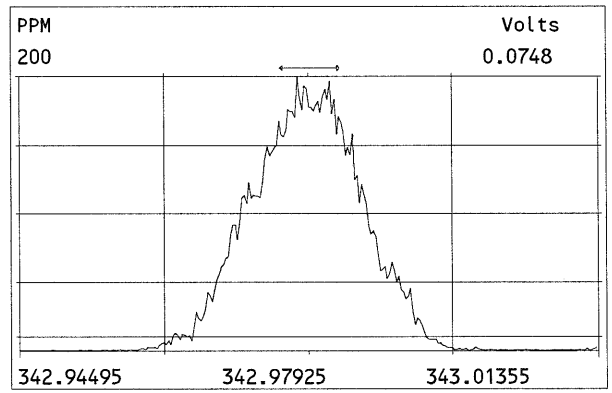


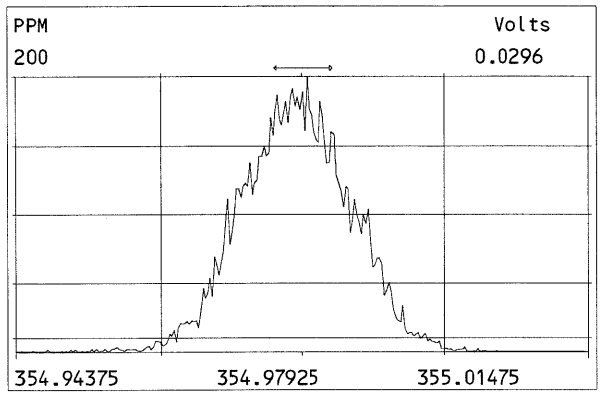


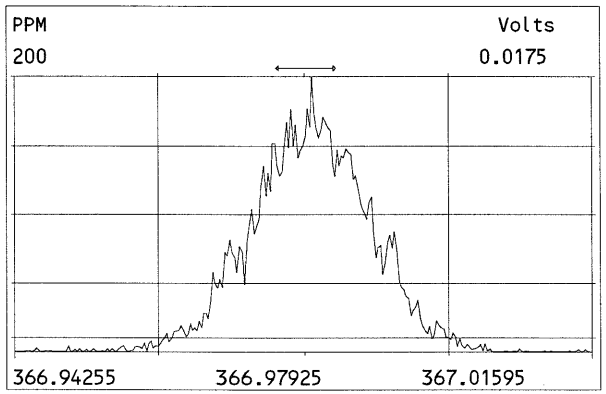


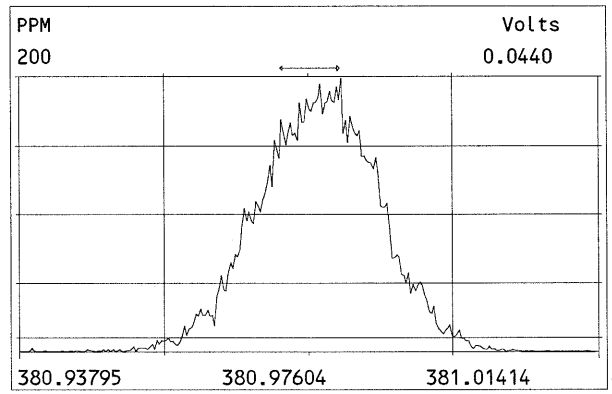




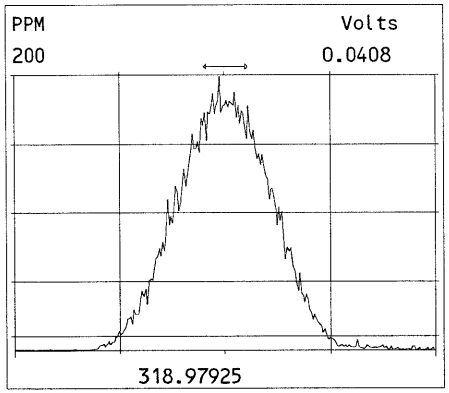


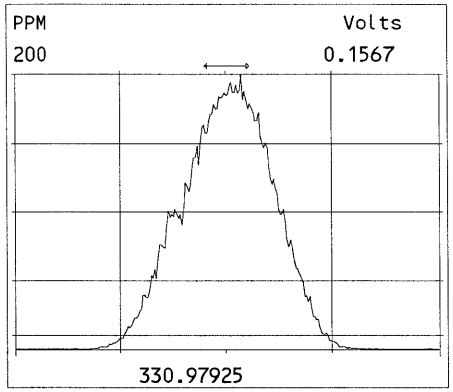


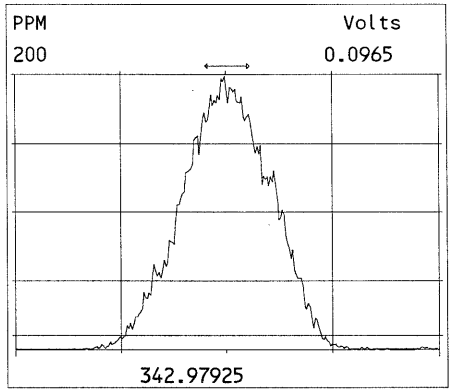


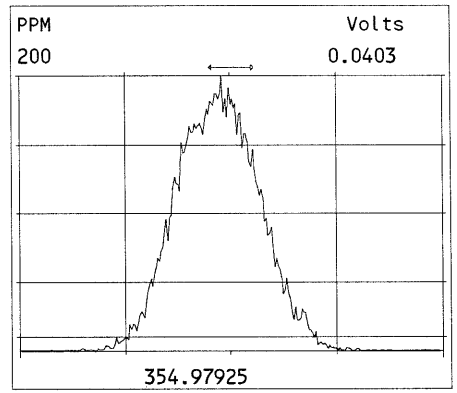


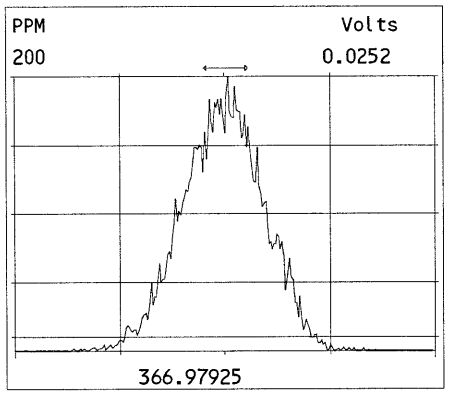
Peak Locate Examination:31-JUL-2018:02:35 File:30JUL18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

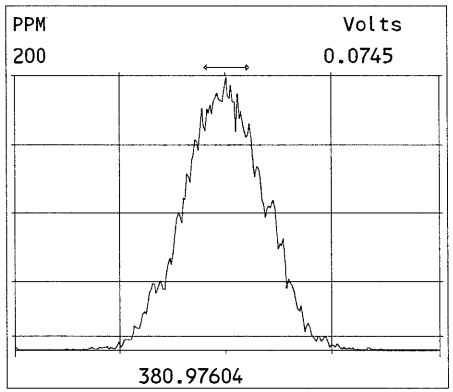


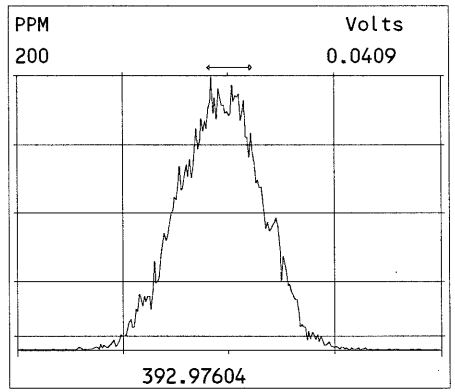


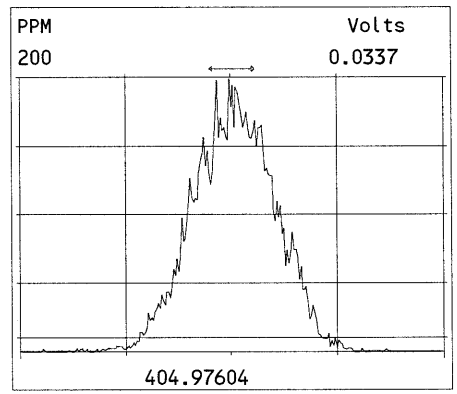


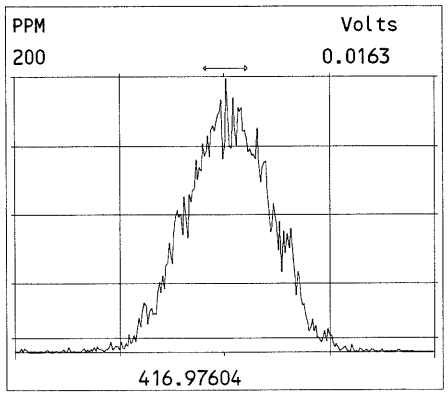


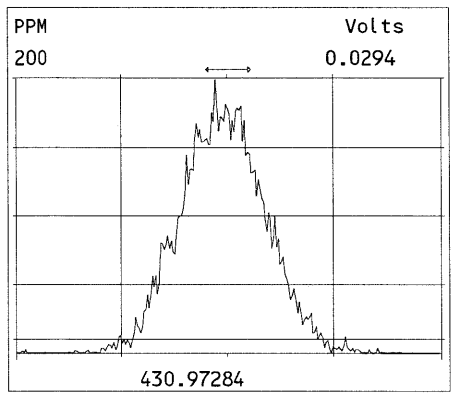


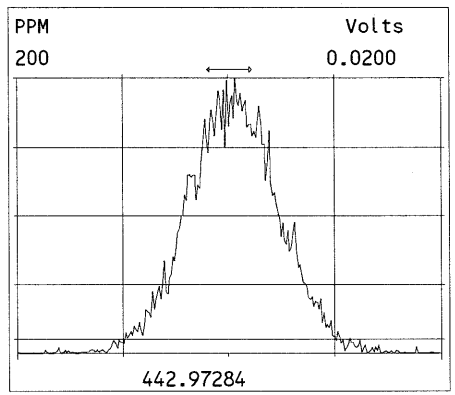




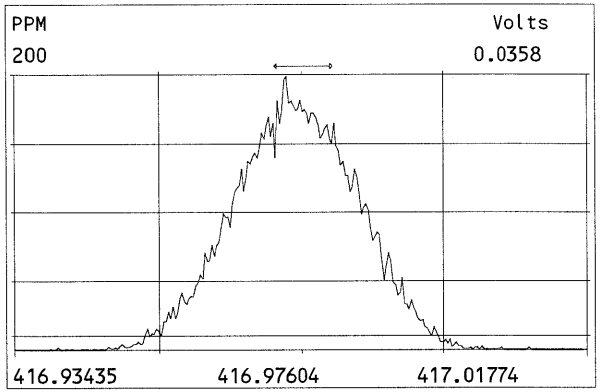


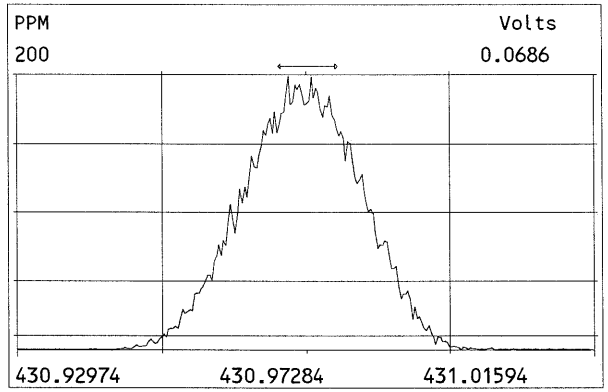


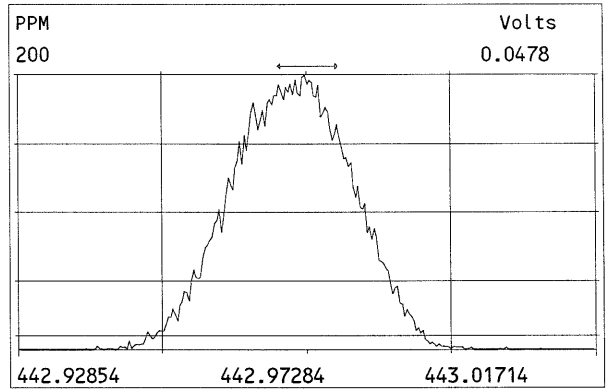


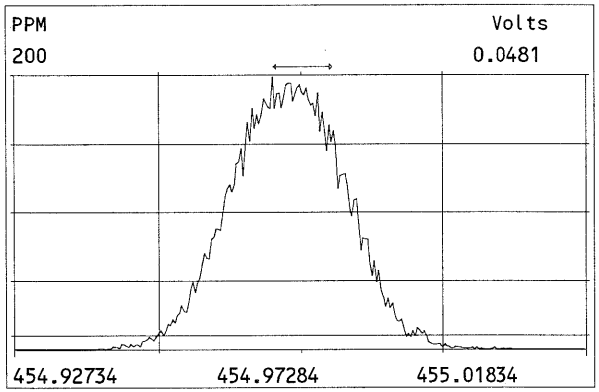


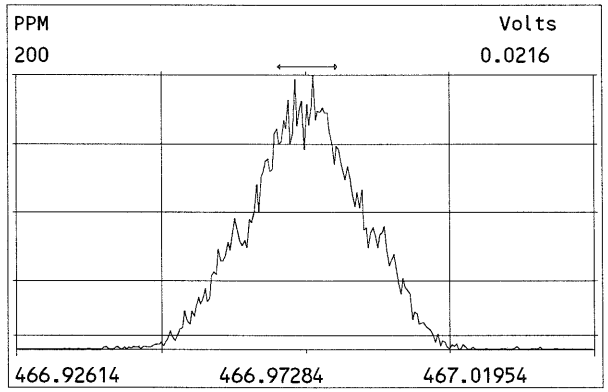
Peak Locate Examination:31-JUL-2018:02:37 File:30JUL18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

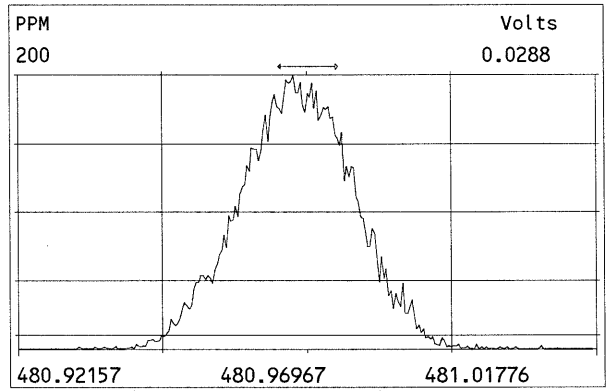


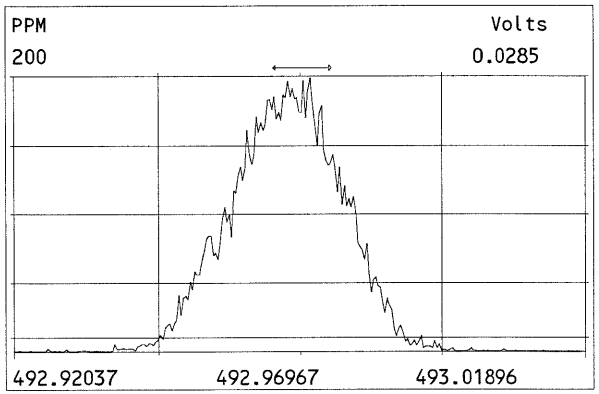


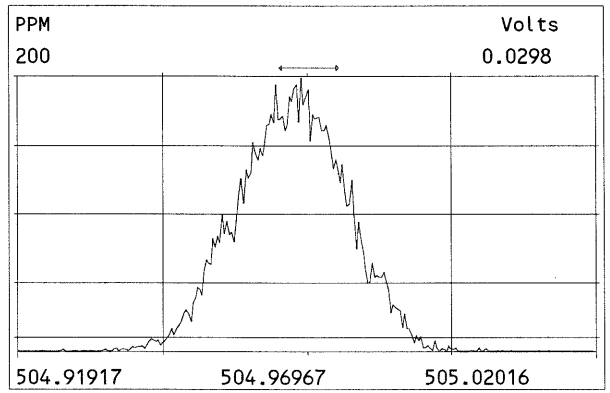


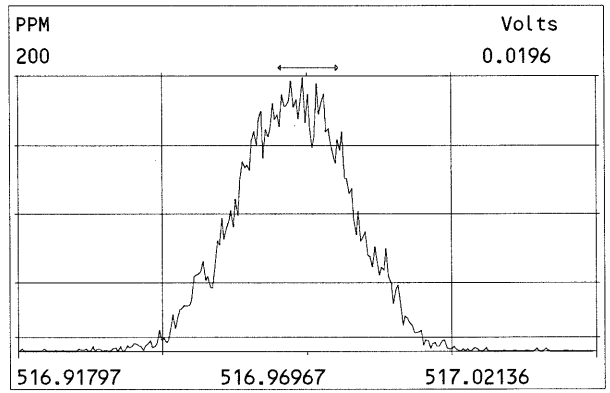












Cal: DAILY209FAL4-7-30-18

Run: 30JUL18Z Analyte: DAILY209FAL4-7-30-18 Results: 11740 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:30JUL18Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.1977	-	1.20	
13C-PCB-1	0.9248	-	0.92	
PCB-2	1.0789	-	1.08	
PCB-3	1.1864	-	1.19	
13C-PCB-3	0.9007	-	0.90	
PCB-4	1.3998	-	1.40	
PCB-10	1.2653	-	1.27	
13C-PCB-4	0.6755	-	0.68	
PCB-9	1.3981	*	1.40	
PCB-7	1.4929	-	1.49	
PCB-6	1.3971	-	1.40	
PCB-8	1.3691	-	1.37	
PCB-5	1.4487	-	1.45	
PCB-14	1.3353	-	1.34	
PCB-11	1.2904	-	1.29	
PCB-13	1.3286	*	1.33	
PCB-12	1.4144	-	1.41	
PCB-15	1.3252	-	1.33	
13C-PCB-15	0.9965	-	1.00	
PCB-19	1.2054	-	1.21	
PCB-30	1.6679	-	1.67	
PCB-18	1.1710	-	1.17	
PCB-17	1.2791	-	1.28	
PCB-27	1.5662	-	1.57	
PCB-24	1.7162	-	1.72	
PCB-16	1.3994	-	1.40	
PCB-32	1.4640	-	1.46	
13C-PCB-19	0.4140	-	0.41	
13C-PCB-9	-	-	-	
PCB-34	1.2836	-	1.28	
PCB-23	1.2749	-	1.27	
PCB-29	1.3291	-	1.33	
PCB-26	1.2576	-	1.26	
PCB-25	1.5894	-	1.59	
PCB-31	1.2900	-	1.29	
PCB-28	1.5619	-	1.56	
PCB-20	1.3349	-	1.33	Co-elute PCB 21/33
PCB-21	1.3349	-	1.33	Co-elute PCB 20/33
PCB-33	1.3349	-	1.33	Co-elute PCB 20/21
PCB-22	1.3509	-	1.35	
PCB-36	1.2094	-	1.21	
PCB-39	1.2735	-	1.27	
PCB-38	1.2811	-	1.28	
PCB-35	1.1512	-	1.15	
PCB-37	1.3654	-	1.37	
13C-PCB-37	1.8173	-	1.82	

PCB-54	1.1900	-	1.19	
PCB-50	0.9055	-	0.91	
PCB-53	0.9180	-	0.92	
PCB-51	0.9335	-	0.93	
PCB-45	0.7773	-	0.78	
PCB-46	0.7591	-	0.76	
PCB-52	1.0556	-	1.06	Co-elute PCB 69
PCB-69	1.0556	-	1.06	Co-elute PCB 52
PCB-73	1.2577	-	1.26	
PCB-43	0.8823	-	0.88	Co-elute PCB 49
PCB-49	0.8823	-	0.88	Co-elute PCB 43
PCB-47	1.1449	-	1.14	
PCB-48	1.1048	-	1.10	Co-elute PCB 75
PCB-75	1.1048	-	1.10	Co-elute PCB 48
PCB-65	1.0728	-	1.07	
PCB-62	1.1879	-	1.19	
PCB-44	0.8094	-	0.81	
PCB-42	1.0816	-	1.08	Co-elute PCB 59
PCB-59	1.0816	-	1.08	Co-elute PCB 42
PCB-72	1.1520	-	1.15	Co-elute PCB 41/71/64
PCB-41	1.1520	-	1.15	Co-elute PCB 72/71/64
PCB-71	1.1520	-	1.15	Co-elute PCB 72/41/64
PCB-64	1.1520	-	1.15	Co-elute PCB 72/41/71
PCB-68	1.2603	-	1.26	
PCB-40	0.7058	-	0.71	
PCB-57	1.1124	-	1.11	
PCB-67	1.0985	-	1.10	
PCB-58	1.1551	-	1.16	
PCB-63	1.1687	-	1.17	
PCB-74	1.2077	-	1.21	
PCB-61	1.2148	-	1.21	Co-elute PCB 70
PCB-70	1.2148	-	1.21	Co-elute PCB 61
PCB-76	1.2051	-	1.21	Co-elute PCB 66
PCB-66	1.2051	-	1.21	Co-elute PCB 76
PCB-80	1.2793	-	1.28	
PCB-55	1.1976	-	1.20	
13C-PCB-54	1.1704	-	1.17	
PCB-104	1.3179	-	1.32	
PCB-96	1.1603	-	1.16	
PCB-103	0.9860	-	0.99	
PCB-100	1.0124	-	1.01	
PCB-94	0.8523	-	0.85	
PCB-98	1.0531	-	1.05	Co-elute PCB 102
PCB-102	1.0531	-	1.05	Co-elute PCB 98
PCB-95	0.9005	-	0.90	
PCB-93	0.8335	-	0.83	
PCB-88	0.9326	-	0.93	Co-elute PCB 91
PCB-91	0.9326	-	0.93	Co-elute PCB 88
PCB-121	1.1709	-	1.17	
13C-PCB-104	0.6223	-	0.62	
13C-PCB-28	2.1041	-	2.10	
13C-PCB-52	-	-	-	

PCB-56	1.3008	-	1.30	Co-elute PCB 60
PCB-60	1.3008	-	1.30	Co-elute PCB 56
PCB-79	1.2678	-	1.27	
PCB-78	1.2103	-	1.21	
PCB-81	1.3255	-	1.33	
13C-PCB-81	1.5859	-	1.59	
PCB-77	1.2167	-	1.22	
13C-PCB-77	1.6505	-	1.65	
PCB-155	1.1617	-	1.16	
PCB-150	1.0644	-	1.06	
PCB-152	1.0141	-	1.01	
PCB-145	1.0478	-	1.05	
PCB-136	1.0083	-	1.01	
PCB-148	0.7810	-	0.78	
PCB-154	0.9157	-	0.92	
13C-PCB-155	0.8560	-	0.86	
13C-PCB-111	1.1845	-	1.18	
13C-PCB-101	-	-	-	
PCB-84	0.5943	-	0.59	Co-elute PCB 92
PCB-92	0.5943	-	0.59	Co-elute PCB 84
PCB-89	0.5844	-	0.58	
PCB-90	0.6753	-	0.68	Co-elute PCB 101
PCB-101	0.6753	-	0.68	Co-elute PCB 90
PCB-113	0.7559	-	0.76	
PCB-99	0.7161	-	0.72	
PCB-119	0.8096	-	0.81	
PCB-83	0.6804	-	0.68	Co-elute PCB 112
PCB-112	0.6804	-	0.68	Co-elute PCB 83
PCB-109	0.8037	-	0.80	
PCB-97	0.7114	-	0.71	
PCB-86	0.6297	*	0.63	
PCB-125	0.7402	-	0.74	Co-elute PCB 87/117
PCB-87	0.7402	-	0.74	Co-elute PCB 125/117
PCB-117	0.7402	-	0.74	Co-elute PCB 125/87
PCB-111	0.9847	-	0.98	Co-elute PCB 115
PCB-115	0.9847	-	0.98	Co-elute PCB 111
PCB-85	0.6720	-	0.67	Co-elute PCB 116
PCB-116	0.6720	-	0.67	Co-elute PCB 85
PCB-120	0.8282	-	0.83	
PCB-110	0.9130	-	0.91	
PCB-82	0.5052	-	0.51	
PCB-124	1.1021	-	1.10	
PCB-108	1.2577	-	1.26	Co-elute PCB 107
PCB-107	1.2577	-	1.26	Co-elute PCB 108
PCB-123	1.3490	-	1.35	
13C-PCB-123	1.4548	-	1.45	
PCB-118	1.1710	-	1.17	Co-elute PCB 106
PCB-106	1.1710	-	1.17	Co-elute PCB 118
13C-PCB-118	1.5527	-	1.55	
PCB-114	1.1775	-	1.18	
13C-PCB-114	1.5004	-	1.50	
PCB-122	1.2422	-	1.24	
PCB-105	1.1998	-	1.20	
13C-PCB-105	1.5042	-	1.50	
PCB-127	1.0971	-	1.10	
PCB-126	1.2207	-	1.22	
13C-PCB-126	1.3826	-	1.38	

PCB-151	0.8184	-	0.82	
PCB-135	0.7790	-	0.78	
PCB-144	0.9625	-	0.96	
PCB-147	0.8883	-	0.89	
PCB-139	0.9477	-	0.95	Co-elute PCB 149
PCB-149	0.9477	-	0.95	Co-elute PCB 139
PCB-140	0.9121	-	0.91	
PCB-143	0.8907	-	0.89	Co-elute PCB 134
PCB-134	0.8907	-	0.89	Co-elute PCB 143
PCB-131	0.8876	-	0.89	Co-elute PCB 133
PCB-133	0.8876	-	0.89	Co-elute PCB 131
PCB-142	0.7528	-	0.75	
PCB-165	1.0455	-	1.05	Co-elute PCB 146
PCB-146	1.0455	-	1.05	Co-elute PCB 165
PCB-161	0.9981	-	1.00	Co-elute PCB 132
PCB-132	0.9981	-	1.00	Co-elute PCB 161
PCB-153	1.0096	-	1.01	
PCB-168	1.1442	-	1.14	
PCB-141	0.8902	-	0.89	
PCB-137	0.9046	-	0.90	
PCB-130	0.7470	-	0.75	
PCB-138	1.1527	-	1.15	Co-elute PCB 163/164
PCB-163	1.1527	-	1.15	Co-elute PCB 138/164
PCB-164	1.1527	-	1.15	Co-elute PCB 138/163
PCB-158	1.1613	-	1.16	Co-elute PCB 160
PCB-160	1.1613	-	1.16	Co-elute PCB 158
PCB-129	0.7467	-	0.75	
PCB-166	1.0730	-	1.07	
PCB-159	1.1585	-	1.16	
PCB-128	0.9675	-	0.97	Co-elute PCB 162
PCB-162	0.9675	-	0.97	Co-elute PCB 128
PCB-167	1.0601	-	1.06	
13C-PCB-167	1.1497	-	1.15	
PCB-156	1.1179	-	1.12	
13C-PCB-156	1.1043	-	1.10	
PCB-157	1.1275	-	1.13	
13C-PCB-157	1.1503	-	1.15	
PCB-169	1.0878	-	1.09	
13C-PCB-169	1.0849	-	1.08	
PCB-188	1.1424	-	1.14	
13C-PCB-188	0.9206	-	0.92	

PCB-184	1.1836	-	1.18	
PCB-179	1.0982	-	1.10	
PCB-176	1.0745	-	1.07	
PCB-186	1.1029	-	1.10	
PCB-178	0.7948	-	0.79	
PCB-175	0.8322	-	0.83	
PCB-187	0.9127	-	0.91	Co-elute PCB 182
PCB-182	0.9127	-	0.91	Co-elute PCB 187
PCB-183	0.8825	-	0.88	
PCB-185	0.8485	-	0.85	
PCB-174	0.8218	-	0.82	
PCB-181	0.8545	-	0.85	
PCB-177	0.7629	-	0.76	
PCB-171	0.8053	-	0.81	
PCB-173	0.7417	-	0.74	
PCB-172	0.7273	-	0.73	
PCB-192	1.0605	-	1.06	
PCB-180	1.0226	-	1.02	
PCB-193	1.0988	-	1.10	
PCB-191	1.0073	-	1.01	
PCB-170	0.7460	-	0.75	
PCB-190	0.9815	-	0.98	
PCB-189	1.1236	-	1.12	
13C-PCB-189	0.8223	-	0.82	
PCB-202	1.0087	-	1.01	
PCB-201	0.9907	-	0.99	
PCB-204	0.9631	-	0.96	
PCB-197	1.0558	-	1.06	
PCB-200	0.9814	-	0.98	
PCB-198	0.7170	-	0.72	
PCB-199	0.7763	-	0.78	
PCB-203	0.8207	-	0.82	Co-elute PCB 196
PCB-196	0.8207	-	0.82	Co-elute PCB 203
13C-PCB-202	0.5881	-	0.59	
13C-PCB-178	0.6547	-	0.65	
13C-PCB-138	-	-	-	
PCB-195	0.7877	-	0.79	
PCB-194	0.8536	-	0.85	
PCB-205	1.1477	-	1.15	
13C-PCB-205	1.3042	-	1.30	
PCB-208	1.0528	-	1.05	
13C-PCB-208	1.0413	-	1.04	
PCB-207	1.0652	-	1.07	
PCB-206	1.0372	-	1.04	
13C-PCB-206	0.8617	-	0.86	
PCB-209	1.1027	-	1.10	
13C-PCB-209	0.9778	-	0.98	
13C-PCB-194	-	-	-	

Analyst: [illegible] Date: 7/30/18

Run #1 Filename 30JUL18Z S: 2 Acquired: 30-JUL-18 11:18:03 Cal: DAILY209FAL4-7-30-18
Client ID: SS073018Z1 Analyte: FAL ID: Daily 209 180725A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	4.05e+07	3.23 y	14:32	-	1.20	
2	IS/RT	13C-PCB-1	100.00	6.76e+07	3.23 y	14:31	-	0.925	
3	Unk	PCB-2	50.00	3.60e+07	3.24 y	16:45	-	1.08	
4	Unk	PCB-3	50.00	3.91e+07	3.25 y	16:58	-	1.19	
5	IS/RT	13C-PCB-3	100.00	6.58e+07	3.25 y	16:57	-	0.901	
6	Unk	PCB-4	50.00	3.46e+07	1.56 y	18:12	-	1.40	
7	Unk	PCB-10	50.00	3.87e+07	1.58 y	18:15	-	1.27	
8	IS/RT	13C-PCB-4	100.00	4.94e+07	1.63 y	18:11	-	0.676	
9	Unk	PCB-9	50.00	4.27e+07	1.53 y	19:54	-	1.40	
10	Unk	PCB-7	50.00	4.56e+07	1.63 y	19:56	-	1.49	
11	Unk	PCB-6	50.00	4.27e+07	1.58 y	20:31	-	1.40	
12	Unk	PCB-8	50.00	4.18e+07	1.49 y	20:54	-	1.37	
13	Unk	PCB-5	50.00	4.43e+07	1.68 y	20:55	-	1.45	
14	Unk	PCB-14	50.00	4.08e+07	1.60 y	21:57	-	1.34	
15	Unk	PCB-11	50.00	3.94e+07	1.59 y	23:04	-	1.29	
16	Unk	PCB-13	50.00	4.06e+07	1.54 y	23:27	-	1.33	
17	Unk	PCB-12	50.00	4.32e+07	1.62 y	23:28	-	1.41	
18	Unk	PCB-15	50.00	4.83e+07	1.59 y	23:45	-	1.33	
19	IS/RT	13C-PCB-15	100.00	7.28e+07	1.58 y	23:43	-	0.997	
20	Unk	PCB-19	50.00	1.82e+07	1.07 y	22:05	-	1.21	
21	Unk	PCB-30	50.00	2.52e+07	1.07 y	22:57	-	1.67	
22	Unk	PCB-18	50.00	1.77e+07	1.07 y	23:38	-	1.17	
23	Unk	PCB-17	50.00	1.94e+07	1.06 y	23:49	-	1.28	
24	Unk	PCB-27	50.00	2.37e+07	1.07 y	24:20	-	1.57	
25	Unk	PCB-24	50.00	2.60e+07	1.05 y	24:21	-	1.72	
26	Unk	PCB-16	50.00	2.12e+07	1.03 y	24:49	-	1.40	
27	Unk	PCB-32	50.00	2.21e+07	1.10 y	24:50	-	1.46	
28	IS/RT	13C-PCB-19	100.00	3.03e+07	1.10 y	22:04	-	0.414	
29	RS	13C-PCB-9	100.00	7.31e+07	1.63 y	19:51	7.31e+05	-	
30	Unk	PCB-34	50.00	3.94e+07	1.08 y	25:35	-	1.28	
31	Unk	PCB-23	50.00	3.91e+07	1.05 y	25:42	-	1.27	
32	Unk	PCB-29	50.00	4.08e+07	1.07 y	25:56	-	1.33	
33	Unk	PCB-26	50.00	3.86e+07	1.08 y	26:07	-	1.26	
34	Unk	PCB-25	50.00	4.87e+07	1.08 y	26:17	-	1.59	
35	Unk	PCB-31	50.00	3.96e+07	1.07 y	26:37	-	1.29	
36	Unk	PCB-28	50.00	4.79e+07	1.08 y	26:42	-	1.56	
37	Unk	PCB-20	150.00	1.23e+08	1.07 y	27:18	-	1.33	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	1.23e+08	1.07 y	27:18	-	1.33	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	1.23e+08	1.07 y	27:18	-	1.33	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	4.14e+07	1.06 y	27:43	-	1.35	
41	Unk	PCB-36	50.00	3.71e+07	1.08 y	28:18	-	1.21	
42	Unk	PCB-39	50.00	3.91e+07	1.08 y	28:46	-	1.27	
43	Unk	PCB-38	50.00	3.93e+07	1.10 y	29:29	-	1.28	
44	Unk	PCB-35	50.00	3.53e+07	1.08 y	29:59	-	1.15	
45	Unk	PCB-37	50.00	4.19e+07	1.07 y	30:24	-	1.37	
46	IS	13C-PCB-37	100.00	6.13e+07	1.12 y	30:24	-	1.82	

47	Unk	PCB-54	100.00	4.70e+07	0.80 y	25:37	-	1.19	
48	Unk	PCB-50	100.00	3.58e+07	0.79 y	26:44	-	0.906	
49	Unk	PCB-53	100.00	3.63e+07	0.80 y	27:20	-	0.918	
50	Unk	PCB-51	100.00	3.69e+07	0.81 y	27:40	-	0.934	
51	Unk	PCB-45	100.00	3.07e+07	0.79 y	28:04	-	0.777	
52	Unk	PCB-46	100.00	3.00e+07	0.80 y	28:32	-	0.759	
53	Unk	PCB-52	200.00	8.34e+07	0.80 y	29:00	-	1.06	Co-elute PCB 69
54	Unk	PCB-69	200.00	8.34e+07	0.80 y	29:00	-	1.06	Co-elute PCB 52
55	Unk	PCB-73	100.00	4.97e+07	0.81 y	29:05	-	1.26	
56	Unk	PCB-43	200.00	6.97e+07	0.80 y	29:15	-	0.882	Co-elute PCB 49
57	Unk	PCB-49	200.00	6.97e+07	0.80 y	29:15	-	0.882	Co-elute PCB 43
58	Unk	PCB-47	100.00	4.52e+07	0.78 y	29:28	-	1.14	
59	Unk	PCB-48	200.00	8.73e+07	0.80 y	29:34	-	1.10	Co-elute PCB 75
60	Unk	PCB-75	200.00	8.73e+07	0.80 y	29:34	-	1.10	Co-elute PCB 48
61	Unk	PCB-65	100.00	4.24e+07	0.79 y	29:49	-	1.07	
62	Unk	PCB-62	100.00	4.69e+07	0.80 y	29:56	-	1.19	
63	Unk	PCB-44	100.00	3.20e+07	0.80 y	30:12	-	0.809	
64	Unk	PCB-42	200.00	8.55e+07	0.80 y	30:25	-	1.08	Co-elute PCB 59
65	Unk	PCB-59	200.00	8.55e+07	0.80 y	30:25	-	1.08	Co-elute PCB 42
66	Unk	PCB-72	400.00	1.82e+08	0.79 y	30:59	-	1.15	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	1.82e+08	0.79 y	30:59	-	1.15	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	1.82e+08	0.79 y	30:59	-	1.15	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	1.82e+08	0.79 y	30:59	-	1.15	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	4.98e+07	0.79 y	31:14	-	1.26	
71	Unk	PCB-40	100.00	2.79e+07	0.82 y	31:25	-	0.706	
72	Unk	PCB-57	100.00	4.39e+07	0.81 y	31:47	-	1.11	
73	Unk	PCB-67	100.00	4.34e+07	0.80 y	32:05	-	1.10	
74	Unk	PCB-58	100.00	4.56e+07	0.81 y	32:11	-	1.16	
75	Unk	PCB-63	100.00	4.62e+07	0.81 y	32:20	-	1.17	
76	Unk	PCB-74	100.00	4.77e+07	0.80 y	32:36	-	1.21	
77	Unk	PCB-61	200.00	9.60e+07	0.83 y	32:48	-	1.21	Co-elute PCB 70
78	Unk	PCB-70	200.00	9.60e+07	0.83 y	32:48	-	1.21	Co-elute PCB 61
79	Unk	PCB-76	200.00	9.52e+07	0.78 y	32:56	-	1.21	Co-elute PCB 66
80	Unk	PCB-66	200.00	9.52e+07	0.78 y	32:56	-	1.21	Co-elute PCB 76
81	Unk	PCB-80	100.00	5.05e+07	0.81 y	33:13	-	1.28	
82	Unk	PCB-55	100.00	4.73e+07	0.81 y	33:31	-	1.20	
83	IS/RT	13C-PCB-54	100.00	3.95e+07	0.81 y	25:37	-	1.17	
84	Unk	PCB-104	100.00	2.77e+07	1.62 y	30:03	-	1.32	
85	Unk	PCB-96	100.00	2.44e+07	1.62 y	31:15	-	1.16	
86	Unk	PCB-103	100.00	2.07e+07	1.59 y	31:46	-	0.986	
87	Unk	PCB-100	100.00	2.13e+07	1.60 y	32:07	-	1.01	
88	Unk	PCB-94	100.00	1.79e+07	1.62 y	32:32	-	0.852	
89	Unk	PCB-98	200.00	4.42e+07	1.61 y	33:00	-	1.05	Co-elute PCB 102
90	Unk	PCB-102	200.00	4.42e+07	1.61 y	33:00	-	1.05	Co-elute PCB 98
91	Unk	PCB-95	100.00	1.89e+07	1.63 y	33:03	-	0.901	
92	Unk	PCB-93	100.00	1.75e+07	1.63 y	33:08	-	0.833	
93	Unk	PCB-88	200.00	3.92e+07	1.66 y	33:26	-	0.933	Co-elute PCB 91
94	Unk	PCB-91	200.00	3.92e+07	1.66 y	33:26	-	0.933	Co-elute PCB 88
95	Unk	PCB-121	100.00	2.46e+07	1.55 y	33:31	-	1.17	
96	IS	13C-PCB-104	100.00	2.10e+07	1.60 y	30:02	-	0.622	
97	C/Up	13C-PCB-28	100.00	7.10e+07	1.10 y	26:41	-	2.10	
98	RS	13C-PCB-52	100.00	3.38e+07	0.81 y	28:58	3.38e+05	-	
99	Unk	PCB-56	200.00	1.17e+08	0.80 y	33:59	-	1.30	Co-elute PCB 60
100	Unk	PCB-60	200.00	1.17e+08	0.80 y	33:59	-	1.30	Co-elute PCB 56

101	Unk	PCB-79	100.00	5.70e+07	0.82 y	35:00	-	1.27	
102	Unk	PCB-78	100.00	5.44e+07	0.83 y	35:41	-	1.21	
103	Unk	PCB-81	100.00	5.84e+07	0.81 y	36:10	-	1.33	
104	IS	13C-PCB-81	100.00	4.40e+07	0.81 y	36:10	-	1.59	
105	Unk	PCB-77	100.00	5.57e+07	0.80 y	36:44	-	1.22	
106	IS/RT	13C-PCB-77	100.00	4.58e+07	0.82 y	36:42	-	1.65	
107	Unk	PCB-155	100.00	2.76e+07	1.31 y	34:13	-	1.16	
108	Unk	PCB-150	100.00	2.53e+07	1.29 y	35:25	-	1.06	
109	Unk	PCB-152	100.00	2.41e+07	1.30 y	35:52	-	1.01	
110	Unk	PCB-145	100.00	2.49e+07	1.28 y	36:17	-	1.05	
111	Unk	PCB-136	100.00	2.40e+07	1.30 y	36:35	-	1.01	
112	Unk	PCB-148	100.00	1.86e+07	1.31 y	36:41	-	0.781	
113	Unk	PCB-154	100.00	2.18e+07	1.28 y	37:10	-	0.916	
114	IS	13C-PCB-155	100.00	2.38e+07	1.29 y	34:12	-	0.856	
115	C/Up	13C-PCB-111	100.00	3.29e+07	1.60 y	36:18	-	1.18	
116	RS	13C-PCB-101	100.00	2.78e+07	1.64 y	34:39	2.78e+05	-	
117	Unk	PCB-84	200.00	5.21e+07	1.61 y	34:18	-	0.594	Co-elute PCB 92
118	Unk	PCB-92	200.00	5.21e+07	1.61 y	34:18	-	0.594	Co-elute PCB 84
119	Unk	PCB-89	100.00	2.56e+07	1.58 y	34:28	-	0.584	
120	Unk	PCB-90	200.00	5.92e+07	1.60 y	34:40	-	0.675	Co-elute PCB 101
121	Unk	PCB-101	200.00	5.92e+07	1.60 y	34:40	-	0.675	Co-elute PCB 90
122	Unk	PCB-113	100.00	3.31e+07	1.56 y	34:53	-	0.756	
123	Unk	PCB-99	100.00	3.14e+07	1.61 y	34:59	-	0.716	
124	Unk	PCB-119	100.00	3.55e+07	1.56 y	35:25	-	0.810	
125	Unk	PCB-83	200.00	5.96e+07	1.59 y	35:34	-	0.680	Co-elute PCB 112
126	Unk	PCB-112	200.00	5.96e+07	1.59 y	35:34	-	0.680	Co-elute PCB 83
127	Unk	PCB-109	100.00	3.52e+07	1.58 y	35:43	-	0.804	
128	Unk	PCB-97	100.00	3.12e+07	1.58 y	35:54	-	0.711	
129	Unk	PCB-86	100.00	2.76e+07	1.57 y	36:03	-	0.630	
130	Unk	PCB-125	300.00	9.73e+07	1.60 y	36:10	-	0.740	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	9.73e+07	1.60 y	36:10	-	0.740	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	9.73e+07	1.60 y	36:10	-	0.740	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	8.63e+07	1.56 y	36:20	-	0.985	Co-elute PCB 115
134	Unk	PCB-115	200.00	8.63e+07	1.56 y	36:20	-	0.985	Co-elute PCB 111
135	Unk	PCB-85	200.00	5.89e+07	1.60 y	36:26	-	0.672	Co-elute PCB 116
136	Unk	PCB-116	200.00	5.89e+07	1.60 y	36:26	-	0.672	Co-elute PCB 85
137	Unk	PCB-120	100.00	3.63e+07	1.57 y	36:41	-	0.828	
138	Unk	PCB-110	100.00	4.00e+07	1.62 y	36:48	-	0.913	
139	Unk	PCB-82	100.00	2.21e+07	1.58 y	37:23	-	0.505	
140	Unk	PCB-124	100.00	4.83e+07	1.57 y	38:03	-	1.10	
141	Unk	PCB-108	200.00	1.10e+08	1.60 y	38:11	-	1.26	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.10e+08	1.60 y	38:11	-	1.26	Co-elute PCB 108
143	Unk	PCB-123	100.00	5.72e+07	1.62 y	38:21	-	1.35	
144	IS	13C-PCB-123	100.00	4.24e+07	1.63 y	38:20	-	1.45	
145	Unk	PCB-118	200.00	1.06e+08	1.62 y	38:34	-	1.17	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.06e+08	1.62 y	38:34	-	1.17	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	4.53e+07	1.67 y	38:31	-	1.55	
148	Unk	PCB-114	100.00	5.15e+07	1.58 y	39:09	-	1.18	
149	IS	13C-PCB-114	100.00	4.37e+07	1.61 y	39:07	-	1.50	
150	Unk	PCB-122	100.00	5.44e+07	1.62 y	39:15	-	1.24	
151	Unk	PCB-105	100.00	5.26e+07	1.60 y	39:58	-	1.20	
152	IS	13C-PCB-105	100.00	4.39e+07	1.65 y	39:57	-	1.50	
153	Unk	PCB-127	100.00	4.81e+07	1.62 y	40:18	-	1.10	
154	Unk	PCB-126	100.00	4.92e+07	1.64 y	42:07	-	1.22	
155	IS	13C-PCB-126	100.00	4.03e+07	1.61 y	42:05	-	1.38	

156	Unk	PCB-151	100.00	2.68e+07	1.27 y	37:47	-	0.818	
157	Unk	PCB-135	100.00	2.55e+07	1.28 y	37:58	-	0.779	
158	Unk	PCB-144	100.00	3.15e+07	1.29 y	38:05	-	0.962	
159	Unk	PCB-147	100.00	2.91e+07	1.28 y	38:13	-	0.888	
160	Unk	PCB-139	200.00	6.20e+07	1.26 y	38:28	-	0.948	Co-elute PCB 149
161	Unk	PCB-149	200.00	6.20e+07	1.26 y	38:28	-	0.948	Co-elute PCB 139
162	Unk	PCB-140	100.00	2.98e+07	1.28 y	38:39	-	0.912	
163	Unk	PCB-143	200.00	5.83e+07	1.28 y	39:02	-	0.891	Co-elute PCB 134
164	Unk	PCB-134	200.00	5.83e+07	1.28 y	39:02	-	0.891	Co-elute PCB 143
165	Unk	PCB-131	200.00	5.81e+07	1.28 y	39:20	-	0.888	Co-elute PCB 133
166	Unk	PCB-133	200.00	5.81e+07	1.28 y	39:20	-	0.888	Co-elute PCB 131
167	Unk	PCB-142	100.00	2.46e+07	1.28 y	39:29	-	0.753	
168	Unk	PCB-165	200.00	6.84e+07	1.26 y	39:42	-	1.05	Co-elute PCB 146
169	Unk	PCB-146	200.00	6.84e+07	1.26 y	39:42	-	1.05	Co-elute PCB 165
170	Unk	PCB-161	200.00	6.53e+07	1.28 y	39:55	-	0.998	Co-elute PCB 132
171	Unk	PCB-132	200.00	6.53e+07	1.28 y	39:55	-	0.998	Co-elute PCB 161
172	Unk	PCB-153	100.00	3.30e+07	1.28 y	40:05	-	1.01	
173	Unk	PCB-168	100.00	3.74e+07	1.27 y	40:16	-	1.14	
174	Unk	PCB-141	100.00	2.91e+07	1.29 y	40:48	-	0.890	
175	Unk	PCB-137	100.00	2.96e+07	1.25 y	41:09	-	0.905	
176	Unk	PCB-130	100.00	2.44e+07	1.29 y	41:14	-	0.747	
177	Unk	PCB-138	300.00	1.13e+08	1.28 y	41:37	-	1.15	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.13e+08	1.28 y	41:37	-	1.15	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.13e+08	1.28 y	41:37	-	1.15	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	7.60e+07	1.27 y	41:50	-	1.16	Co-elute PCB 160
181	Unk	PCB-160	200.00	7.60e+07	1.27 y	41:50	-	1.16	Co-elute PCB 158
182	Unk	PCB-129	100.00	2.44e+07	1.30 y	42:03	-	0.747	
183	Unk	PCB-166	100.00	3.51e+07	1.27 y	42:31	-	1.07	
184	Unk	PCB-159	100.00	3.79e+07	1.27 y	42:49	-	1.16	
185	Unk	PCB-128	200.00	6.33e+07	1.27 y	43:04	-	0.967	Co-elute PCB 162
186	Unk	PCB-162	200.00	6.33e+07	1.27 y	43:04	-	0.967	Co-elute PCB 128
187	Unk	PCB-167	100.00	3.55e+07	1.28 y	43:27	-	1.06	
188	IS	13C-PCB-167	100.00	3.35e+07	1.27 y	43:26	-	1.15	
189	Unk	PCB-156	100.00	3.60e+07	1.28 y	44:41	-	1.12	
190	IS	13C-PCB-156	100.00	3.22e+07	1.30 y	44:40	-	1.10	
191	Unk	PCB-157	100.00	3.78e+07	1.31 y	44:56	-	1.13	
192	IS	13C-PCB-157	100.00	3.35e+07	1.28 y	44:55	-	1.15	
193	Unk	PCB-169	100.00	3.44e+07	1.27 y	46:48	-	1.09	
194	IS	13C-PCB-169	100.00	3.16e+07	1.28 y	46:48	-	1.08	
195	Unk	PCB-188	100.00	3.07e+07	1.06 y	39:43	-	1.14	
196	IS	13C-PCB-188	100.00	2.68e+07	1.10 y	39:42	-	0.921	

197	Unk	PCB-184	100.00	3.01e+07	1.09 y	40:08	-	1.18	
198	Unk	PCB-179	100.00	2.79e+07	1.08 y	40:53	-	1.10	
199	Unk	PCB-176	100.00	2.73e+07	1.07 y	41:19	-	1.07	
200	Unk	PCB-186	100.00	2.80e+07	1.07 y	41:53	-	1.10	
201	Unk	PCB-178	100.00	2.02e+07	1.07 y	42:21	-	0.795	
202	Unk	PCB-175	100.00	2.11e+07	1.06 y	42:41	-	0.832	
203	Unk	PCB-187	200.00	4.64e+07	1.06 y	42:51	-	0.913	Co-elute PCB 182
204	Unk	PCB-182	200.00	4.64e+07	1.06 y	42:51	-	0.913	Co-elute PCB 187
205	Unk	PCB-183	100.00	2.24e+07	1.08 y	43:09	-	0.883	
206	Unk	PCB-185	100.00	2.16e+07	1.05 y	43:47	-	0.848	
207	Unk	PCB-174	100.00	2.09e+07	1.06 y	44:07	-	0.822	
208	Unk	PCB-181	100.00	2.17e+07	1.07 y	44:13	-	0.854	
209	Unk	PCB-177	100.00	1.94e+07	1.05 y	44:23	-	0.763	
210	Unk	PCB-171	100.00	2.05e+07	1.06 y	44:40	-	0.805	
211	Unk	PCB-173	100.00	1.88e+07	1.06 y	45:04	-	0.742	
212	Unk	PCB-172	100.00	1.85e+07	1.06 y	45:27	-	0.727	
213	Unk	PCB-192	100.00	2.69e+07	1.07 y	45:39	-	1.06	
214	Unk	PCB-180	100.00	2.60e+07	1.06 y	45:49	-	1.02	
215	Unk	PCB-193	100.00	2.79e+07	1.06 y	45:59	-	1.10	
216	Unk	PCB-191	100.00	2.56e+07	1.09 y	46:12	-	1.01	
217	Unk	PCB-170	100.00	1.90e+07	1.05 y	47:06	-	0.746	
218	Unk	PCB-190	100.00	2.49e+07	1.05 y	47:16	-	0.981	
219	Unk	PCB-189	100.00	2.69e+07	1.06 y	48:27	-	1.12	
220	IS	13C-PCB-189	100.00	2.40e+07	1.06 y	48:27	-	0.822	
221	Unk	PCB-202	150.00	2.59e+07	0.91 y	44:50	-	1.01	
222	Unk	PCB-201	150.00	2.55e+07	0.91 y	45:16	-	0.991	
223	Unk	PCB-204	150.00	2.48e+07	0.92 y	45:26	-	0.963	
224	Unk	PCB-197	150.00	2.72e+07	0.91 y	45:41	-	1.06	
225	Unk	PCB-200	150.00	2.52e+07	0.91 y	46:25	-	0.981	
226	Unk	PCB-198	150.00	1.84e+07	0.90 y	47:36	-	0.717	
227	Unk	PCB-199	150.00	2.00e+07	0.90 y	47:42	-	0.776	
228	Unk	PCB-203	300.00	4.22e+07	0.93 y	47:57	-	0.821	Co-elute PCB 196
229	Unk	PCB-196	300.00	4.22e+07	0.93 y	47:57	-	0.821	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	1.71e+07	0.93 y	44:48	-	0.588	
231	C/Up	13C-PCB-178	100.00	1.91e+07	1.11 y	42:20	-	0.655	
232	RS	13C-PCB-138	100.00	2.92e+07	1.26 y	41:34	2.92e+05	-	
233	Unk	PCB-195	150.00	4.86e+07	0.91 y	49:03	-	0.788	
234	Unk	PCB-194	150.00	5.26e+07	0.92 y	49:51	-	0.854	
235	Unk	PCB-205	150.00	7.08e+07	0.92 y	50:06	-	1.15	
236	IS	13C-PCB-205	100.00	4.11e+07	0.90 y	50:06	-	1.30	
237	Unk	PCB-208	150.00	5.18e+07	1.38 y	49:09	-	1.05	
238	IS	13C-PCB-208	100.00	3.28e+07	0.83 y	49:08	-	1.04	
239	Unk	PCB-207	150.00	4.79e+07	1.35 y	49:27	-	1.07	
240	Unk	PCB-206	150.00	4.22e+07	1.35 y	51:18	-	1.04	
241	IS	13C-PCB-206	100.00	2.72e+07	0.81 y	51:17	-	0.862	
242	Unk	PCB-209	150.00	5.10e+07	1.20 y	52:28	-	1.10	
243	IS	13C-PCB-209	100.00	3.08e+07	1.22 y	52:27	-	0.978	
244	RS	13C-PCB-194	100.00	3.15e+07	0.93 y	49:51	3.15e+05	-	

Analyst: [illegible] Date: 7/30/18

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/30/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 30JUL18Z Sam:1 Analysis Date: 30-JUL-18 10:19:43

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.21	2.66-3.60	y	49.7	37.5 - 62.5
PCB-3	M/M+2	3.17	2.66-3.60	y	49.5	37.5 - 62.5
PCB-4	M/M+2	1.58	1.33-1.79	y	44.9	37.5 - 62.5
PCB-15	M/M+2	1.58	1.33-1.79	y	47.0	37.5 - 62.5
PCB-19	M/M+2	1.05	0.88-1.20	y	50.5	37.5 - 62.5
PCB-37	M/M+2	1.08	0.88-1.20	y	48.1	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	50.5	37.5 - 62.5
PCB-77	M/M+2	0.81	0.65-0.89	y	51.7	37.5 - 62.5
PCB-81	M/M+2	0.81	0.65-0.89	y	50.8	37.5 - 62.5
PCB-104	M+2/M+4	1.63	1.32-1.78	y	47.8	37.5 - 62.5
PCB-105	M+2/M+4	1.63	1.32-1.78	y	48.6	37.5 - 62.5
PCB-114	M+2/M+4	1.60	1.32-1.78	y	50.4	37.5 - 62.5
PCB-118	M+2/M+4	1.61	1.32-1.78	y	51.5	37.5 - 62.5
PCB-123	M+2/M+4	1.63	1.32-1.78	y	44.6	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	48.7	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	53.4	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	50.7	37.5 - 62.5
PCB-157	M+2/M+4	1.30	1.05-1.43	y	48.7	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	53.3	37.5 - 62.5
PCB-169	M+2/M+4	1.31	1.05-1.43	y	50.4	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	48.7	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	53.1	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	55.6	37.5 - 62.5
PCB-205	M+2/M+4	0.92	0.76-1.02	y	51.1	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	47.6	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	47.6	37.5 - 62.5
PCB-209	M+4/M+6	1.21	0.99-1.33	y	54.4	37.5 - 62.5

Analyst: [signature] Date: 7/30/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/30/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 30JUL18Z Sam:1 Analysis Date: 30-JUL-18 10:19:43

	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	3.16	2.66-3.60	y	96.1	50.0 - 145
13C-PCB-3	M/M+2	3.22	2.66-3.60	y	96.7	50.0 - 145
13C-PCB-4	M/M+2	1.63	1.33-1.79	y	100	50.0 - 145
13C-PCB-15	M/M+2	1.68	1.33-1.79	y	93.8	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	1.14	0.88-1.20	y	91.1	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	105	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	89.3	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	88.1	50.0 - 145
13C-PCB-104	M+2/M+4	1.62	1.32-1.78	y	112	50.0 - 145
13C-PCB-105	M+2/M+4	1.66	1.32-1.78	y	91.8	50.0 - 145
13C-PCB-114	M+2/M+4	1.66	1.32-1.78	y	94.2	50.0 - 145
13C-PCB-118	M+2/M+4	1.63	1.32-1.78	y	102	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	90.1	50.0 - 145
13C-PCB-126	M+2/M+4	1.65	1.32-1.78	y	91.4	50.0 - 145
13C-PCB-155	M+2/M+4	1.31	1.05-1.43	y	101	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	95.6	50.0 - 145
13C-PCB-157	M+2/M+4	1.31	1.05-1.43	y	98.1	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	97.6	50.0 - 145
13C-PCB-169	M+2/M+4	1.32	1.05-1.43	y	95.9	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	109	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	94.8	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	102	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	100	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	113	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	115	50.0 - 145
13C-PCB-209	M+4/M+6	1.18	0.99-1.33	y	99.2	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.08	0.88-1.20	y	88.1	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	102	75.0 - 125
13C-PCB-178	M+2/M+4	1.09	0.89-1.21	y	104	75.0 - 125

Analyst: [signature] Date: 7/30/18

FAL ID: ST073018Z1 Filename: 30JUL18Z Sam:1 Acquired: 30-JUL-18 10:19:43 ICal: DAILY209FAL4-7-30-18
Client ID: 1668 CS3 170805A ConCal: ST073018Z1 EndCal: ST073018Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.29e+07	3.21 y	14:32	1.20	49.7		2.50	-	-	*	
13C-PCB-1	7.21e+07	3.16 y	14:31	0.92	96.1		2.50				96.1
PCB-3	4.15e+07	3.17 y	16:58	1.19	49.5		2.50	-	-	*	
13C-PCB-3	7.07e+07	3.22 y	16:57	0.90	96.7		2.50				96.7
PCB-4	3.45e+07	1.58 y	18:12	1.40	44.9		2.50	-	-	*	
13C-PCB-4	5.49e+07	1.63 y	18:11	0.68	100		2.50				100
PCB-15	4.72e+07	1.58 y	23:45	1.33	47.0		2.50	-	-	*	
13C-PCB-15	7.58e+07	1.68 y	23:45	1.00	93.8		2.50				93.8
PCB-19	2.13e+07	1.05 y	22:06	1.21	50.5		2.50	-	-	*	
13C-PCB-19	3.51e+07	1.10 y	22:04	0.41	104		2.50				104
13C-PCB-9	8.11e+07	1.65 y	19:52	-	111		2.50				
PCB-37	4.12e+07	1.08 y	30:25	1.37	48.1		2.50	-	-	*	
13C-PCB-37	6.28e+07	1.14 y	30:24	1.82	91.1		2.50				91.1
PCB-54	2.80e+07	0.80 y	25:38	1.19	50.5		2.50	-	-	*	
13C-PCB-54	4.66e+07	0.82 y	25:37	1.17	105		2.50				105
PCB-104	1.66e+07	1.63 y	30:05	1.32	47.8		2.50	-	-	*	
13C-PCB-104	2.64e+07	1.62 y	30:04	0.62	112		2.50				112
13C-PCB-28	7.03e+07	1.08 y	26:43	2.10	88.1		2.50				88.1
13C-PCB-52	3.79e+07	0.81 y	28:58	-	112		2.50				
PCB-81	3.04e+07	0.81 y	36:11	1.33	50.8		2.50	-	-	*	
13C-PCB-81	4.52e+07	0.80 y	36:10	1.59	88.1		2.50				88.1
PCB-77	3.00e+07	0.81 y	36:45	1.22	51.7		2.50	-	-	*	
13C-PCB-77	4.77e+07	0.80 y	36:44	1.65	89.3		2.50				89.3
PCB-155	1.73e+07	1.28 y	34:15	1.16	53.4		2.50	-	-	*	
13C-PCB-155	2.79e+07	1.31 y	34:14	0.86	101		2.50				101
13C-PCB-111	3.91e+07	1.62 y	36:19	1.18	102		2.50				102
13C-PCB-101	3.23e+07	1.59 y	34:40	-	116		2.50				
PCB-123	2.61e+07	1.63 y	38:23	1.35	44.6		2.50	-	-	*	
13C-PCB-123	4.33e+07	1.61 y	38:22	1.45	90.1		2.50				90.1
PCB-118	3.16e+07	1.61 y	38:33	1.17	51.5		2.50	-	-	*	
13C-PCB-118	5.24e+07	1.63 y	38:31	1.55	102		2.50				102
PCB-114	2.77e+07	1.60 y	39:11	1.18	50.4		2.50	-	-	*	
13C-PCB-114	4.67e+07	1.66 y	39:09	1.50	94.2		2.50				94.2
PCB-105	2.66e+07	1.63 y	39:59	1.20	48.6		2.50	-	-	*	
13C-PCB-105	4.56e+07	1.66 y	39:59	1.50	91.8		2.50				91.8
PCB-126	2.48e+07	1.58 y	42:07	1.22	48.7		2.50	-	-	*	
13C-PCB-126	4.17e+07	1.65 y	42:07	1.38	91.4		2.50				91.4
PCB-167	2.09e+07	1.26 y	43:29	1.06	53.3		2.50	-	-	*	
13C-PCB-167	3.70e+07	1.27 y	43:28	1.15	97.6		2.50				97.6
PCB-156	1.97e+07	1.25 y	44:42	1.12	50.7		2.50	-	-	*	
13C-PCB-156	3.49e+07	1.29 y	44:42	1.10	95.6		2.50				95.6
PCB-157	2.05e+07	1.30 y	44:58	1.13	48.7		2.50	-	-	*	
13C-PCB-157	3.73e+07	1.31 y	44:57	1.15	98.1		2.50				98.1
PCB-169	1.89e+07	1.31 y	46:50	1.09	50.4		2.50	-	-	*	
13C-PCB-169	3.44e+07	1.32 y	46:49	1.08	95.9		2.50				95.9
PCB-188	1.85e+07	1.08 y	39:44	1.14	48.7		2.50	-	-	*	
13C-PCB-188	3.33e+07	1.09 y	39:42	0.92	109		2.50				109
PCB-189	1.54e+07	1.07 y	48:29	1.12	53.1		2.50	-	-	*	
13C-PCB-189	2.57e+07	1.08 y	48:27	0.82	94.8		2.50				94.8
PCB-202	1.11e+07	0.92 y	44:52	1.01	55.6		2.50	-	-	*	
13C-PCB-202	1.98e+07	0.92 y	44:50	0.59	102		2.50				102
13C-PCB-178	2.25e+07	1.09 y	42:22	0.65	104		2.50				104
13C-PCB-138	3.30e+07	1.28 y	41:36	-	113		2.50				

FAL ID: ST073018Z1 Filename: 30JUL18Z Sam:1 Acquired: 30-JUL-18 10:19:43 ICal: DAILY209FAL4-7-30-18 2 of 2
Client ID: 1668 CS3 170805A ConCal: ST073018Z1 EndCal: ST073018Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	2.66e+07	0.92	y	50:07	1.15	51.1	2.50	-	-	*	
13C-PCB-205	4.54e+07	0.91	y	50:07	1.30	100	2.50				100
PCB-208	2.07e+07	1.36	y	49:11	1.05	47.6	2.50	-	-	*	
13C-PCB-208	4.14e+07	0.81	y	49:09	1.04	115	2.50				115
PCB-206	1.67e+07	1.35	y	51:18	1.04	47.6	2.50	-	-	*	
13C-PCB-206	3.38e+07	0.81	y	51:18	0.86	113	2.50				113
PCB-209	2.02e+07	1.21	y	52:30	1.10	54.4	2.50	-	-	*	
13C-PCB-209	3.36e+07	1.18	y	52:30	0.98	99.2	2.50				99.2
13C-PCB-194	3.47e+07	0.92	y	49:51	-	110	2.50				

Analyst: Date: 7/30/12

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/30/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 30JUL18Z Sam:16 Analysis Date: 31-JUL-18 00:58:33

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.18	2.66-3.60	y	50.5	37.5 - 62.5
PCB-3	M/M+2	3.20	2.66-3.60	y	51.1	37.5 - 62.5
PCB-4	M/M+2	1.53	1.33-1.79	y	45.9	37.5 - 62.5
PCB-15	M/M+2	1.59	1.33-1.79	y	46.9	37.5 - 62.5
PCB-19	M/M+2	1.08	0.88-1.20	y	55.9	37.5 - 62.5
PCB-37	M/M+2	1.13	0.88-1.20	y	47.4	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	49.1	37.5 - 62.5
PCB-77	M/M+2	0.83	0.65-0.89	y	50.1	37.5 - 62.5
PCB-81	M/M+2	0.83	0.65-0.89	y	48.3	37.5 - 62.5
PCB-104	M+2/M+4	1.65	1.32-1.78	y	47.5	37.5 - 62.5
PCB-105	M+2/M+4	1.63	1.32-1.78	y	48.5	37.5 - 62.5
PCB-114	M+2/M+4	1.62	1.32-1.78	y	50.2	37.5 - 62.5
PCB-118	M+2/M+4	1.66	1.32-1.78	y	50.8	37.5 - 62.5
PCB-123	M+2/M+4	1.61	1.32-1.78	y	43.6	37.5 - 62.5
PCB-126	M+2/M+4	1.64	1.32-1.78	y	47.4	37.5 - 62.5
PCB-155	M+2/M+4	1.34	1.05-1.43	y	55.1	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	49.4	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	48.1	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	51.3	37.5 - 62.5
PCB-169	M+2/M+4	1.26	1.05-1.43	y	49.6	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	48.8	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	52.4	37.5 - 62.5
PCB-202	M+2/M+4	0.95	0.76-1.02	y	58.7	37.5 - 62.5
PCB-205	M+2/M+4	0.93	0.76-1.02	y	50.3	37.5 - 62.5
PCB-206	M+4/M+6	1.38	1.13-1.53	y	46.3	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	46.7	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	54.4	37.5 - 62.5

Analyst: [signature] Date: 7/31/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/30/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 30JUL18Z Sam:16 Analysis Date: 31-JUL-18 00:58:33

	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	3.34	2.66-3.60	y	90.4	50.0 - 145
13C-PCB-3	M/M+2	3.39	2.66-3.60	y	96.0	50.0 - 145
13C-PCB-4	M/M+2	1.63	1.33-1.79	y	99.0	50.0 - 145
13C-PCB-15	M/M+2	1.62	1.33-1.79	y	103	50.0 - 145
13C-PCB-19	M/M+2	1.13	0.88-1.20	y	94.4	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	74.5	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	105	50.0 - 145
13C-PCB-77	M/M+2	0.82	0.65-0.89	y	91.6	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	93.6	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	122	50.0 - 145
13C-PCB-105	M+2/M+4	1.64	1.32-1.78	y	92.3	50.0 - 145
13C-PCB-114	M+2/M+4	1.62	1.32-1.78	y	94.2	50.0 - 145
13C-PCB-118	M+2/M+4	1.62	1.32-1.78	y	93.4	50.0 - 145
13C-PCB-123	M+2/M+4	1.62	1.32-1.78	y	94.1	50.0 - 145
13C-PCB-126	M+2/M+4	1.64	1.32-1.78	y	96.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.37	1.05-1.43	y	94.4	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	113	50.0 - 145
13C-PCB-157	M+2/M+4	1.24	1.05-1.43	y	116	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	115	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	121	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	111	50.0 - 145
13C-PCB-189	M+2/M+4	1.10	0.89-1.21	y	124	50.0 - 145
13C-PCB-202	M+2/M+4	0.94	0.76-1.02	y	103	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	98.3	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	120	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	120	50.0 - 145
13C-PCB-209	M+4/M+6	1.23	0.99-1.33	y	106	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.09	0.88-1.20	y	73.5	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	108	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	104	75.0 - 125

Analyst: _____ Date: 7/31/18

FAL ID: ST073018Z2 Filename: 30JUL18Z Sam:16 Acquired: 31-JUL-18 00:58:33 ICal: DAILY209FAL4-7-30-18
Client ID: 1668 CS3 170805A ConCal: ST073018Z1 EndCal: ST073018Z2
Results: GC Column: DB1MS Amount: 1.000

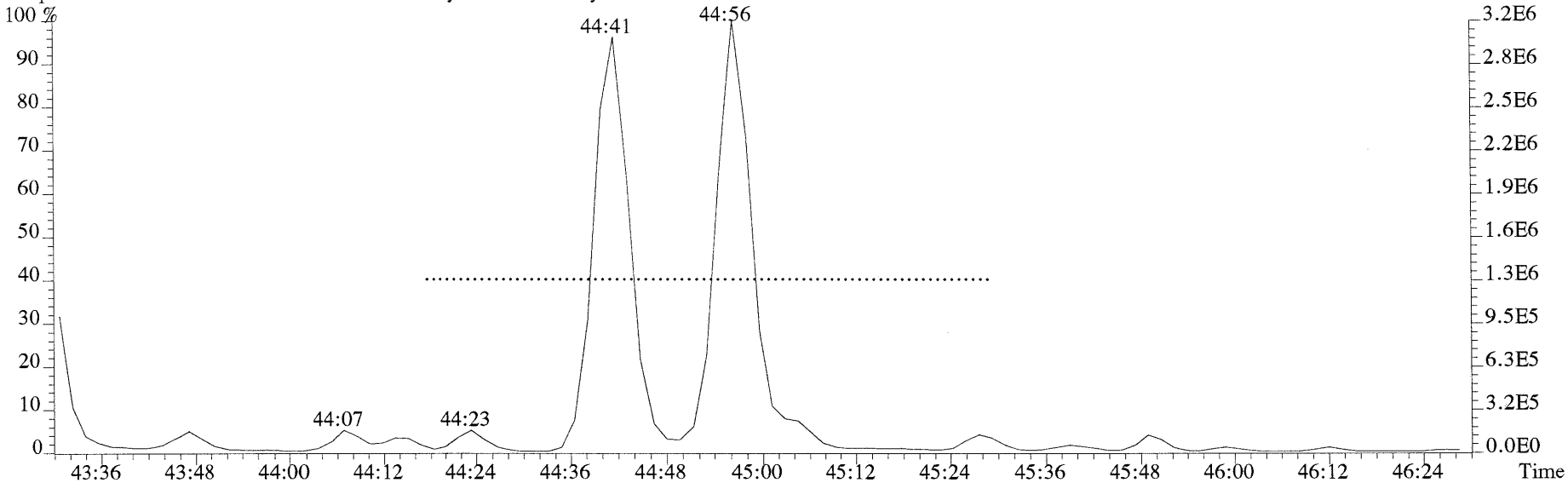
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.95e+07	3.18 y	14:32	1.20	50.5		2.50	-	-	*	
13C-PCB-1	6.52e+07	3.34 y	14:31	0.92	90.4		2.50				90.4
PCB-3	4.09e+07	3.20 y	16:59	1.19	51.1		2.50	-	-	*	
13C-PCB-3	6.75e+07	3.39 y	16:58	0.90	96.0		2.50				96.0
PCB-4	3.35e+07	1.53 y	18:12	1.40	45.9		2.50	-	-	*	
13C-PCB-4	5.21e+07	1.63 y	18:11	0.68	99.0		2.50				99.0
PCB-15	4.99e+07	1.59 y	23:45	1.33	46.9		2.50	-	-	*	
13C-PCB-15	8.02e+07	1.62 y	23:44	1.00	103		2.50				103
PCB-19	2.05e+07	1.08 y	22:05	1.21	55.9		2.50	-	-	*	
13C-PCB-19	3.05e+07	1.13 y	22:03	0.41	94.4		2.50				94.4
13C-PCB-9	7.80e+07	1.63 y	19:52	-	107		2.50				
PCB-37	3.25e+07	1.13 y	30:25	1.37	47.4		2.50	-	-	*	
13C-PCB-37	5.01e+07	1.09 y	30:23	1.82	74.5		2.50				74.5
PCB-54	2.65e+07	0.78 y	25:38	1.19	49.1		2.50	-	-	*	
13C-PCB-54	4.54e+07	0.79 y	25:35	1.17	105		2.50				105
PCB-104	1.76e+07	1.65 y	30:03	1.32	47.5		2.50	-	-	*	
13C-PCB-104	2.81e+07	1.61 y	30:02	0.62	122		2.50				122
13C-PCB-28	5.73e+07	1.09 y	26:42	2.10	73.5		2.50				73.5
13C-PCB-52	3.71e+07	0.77 y	28:57	-	110		2.50				
PCB-81	3.24e+07	0.83 y	36:11	1.33	48.3		2.50	-	-	*	
13C-PCB-81	5.05e+07	0.81 y	36:10	1.59	93.6		2.50				93.6
PCB-77	3.14e+07	0.83 y	36:45	1.22	50.1		2.50	-	-	*	
13C-PCB-77	5.15e+07	0.82 y	36:44	1.65	91.6		2.50				91.6
PCB-155	1.76e+07	1.34 y	34:13	1.16	55.1		2.50	-	-	*	
13C-PCB-155	2.75e+07	1.37 y	34:12	0.86	94.4		2.50				94.4
13C-PCB-111	4.37e+07	1.60 y	36:18	1.18	108		2.50				108
13C-PCB-101	3.41e+07	1.57 y	34:38	-	123		2.50				
PCB-123	2.73e+07	1.61 y	38:21	1.35	43.6		2.50	-	-	*	
13C-PCB-123	4.64e+07	1.62 y	38:21	1.45	94.1		2.50				94.1
PCB-118	2.92e+07	1.66 y	38:33	1.17	50.8		2.50	-	-	*	
13C-PCB-118	4.91e+07	1.62 y	38:31	1.55	93.4		2.50				93.4
PCB-114	2.83e+07	1.62 y	39:09	1.18	50.2		2.50	-	-	*	
13C-PCB-114	4.79e+07	1.62 y	39:09	1.50	94.2		2.50				94.2
PCB-105	2.74e+07	1.63 y	39:58	1.20	48.5		2.50	-	-	*	
13C-PCB-105	4.70e+07	1.64 y	39:57	1.50	92.3		2.50				92.3
PCB-126	2.62e+07	1.64 y	42:07	1.22	47.4		2.50	-	-	*	
13C-PCB-126	4.53e+07	1.64 y	42:05	1.38	96.7		2.50				96.7
PCB-167	2.44e+07	1.25 y	43:27	1.06	51.3		2.50	-	-	*	
13C-PCB-167	4.49e+07	1.27 y	43:27	1.15	115		2.50				115
PCB-156	2.33e+07	1.27 y	44:41	1.12	49.4		2.50	-	-	*	
13C-PCB-156	4.22e+07	1.29 y	44:40	1.10	113		2.50				113
PCB-157	2.46e+07	1.27 y	44:56	1.13	48.1		2.50	-	-	*	
13C-PCB-157	4.53e+07	1.24 y	44:56	1.15	116		2.50				116
PCB-169	2.41e+07	1.26 y	46:50	1.09	49.6		2.50	-	-	*	
13C-PCB-169	4.46e+07	1.27 y	46:48	1.08	121		2.50				121
PCB-188	1.93e+07	1.08 y	39:43	1.14	48.8		2.50	-	-	*	
13C-PCB-188	3.46e+07	1.09 y	39:42	0.92	111		2.50				111
PCB-189	2.04e+07	1.07 y	48:28	1.12	52.4		2.50	-	-	*	
13C-PCB-189	3.46e+07	1.10 y	48:27	0.82	124		2.50				124
PCB-202	1.21e+07	0.95 y	44:50	1.01	58.7		2.50	-	-	*	
13C-PCB-202	2.05e+07	0.94 y	44:48	0.59	103		2.50				103
13C-PCB-178	2.31e+07	1.08 y	42:20	0.65	104		2.50				104
13C-PCB-138	3.39e+07	1.27 y	41:34	-	116		2.50				

FAL ID: ST073018Z2 Filename: 30JUL18Z Sam:16 Acquired: 31-JUL-18 00:58:33 ICal: DAILY209FAL4-7-30-18 2 of 2
Client ID: 1668 CS3 170805A ConCal: ST073018Z1 EndCal: ST073018Z2
Results: GC Column: DB1MS Amount: 1.000

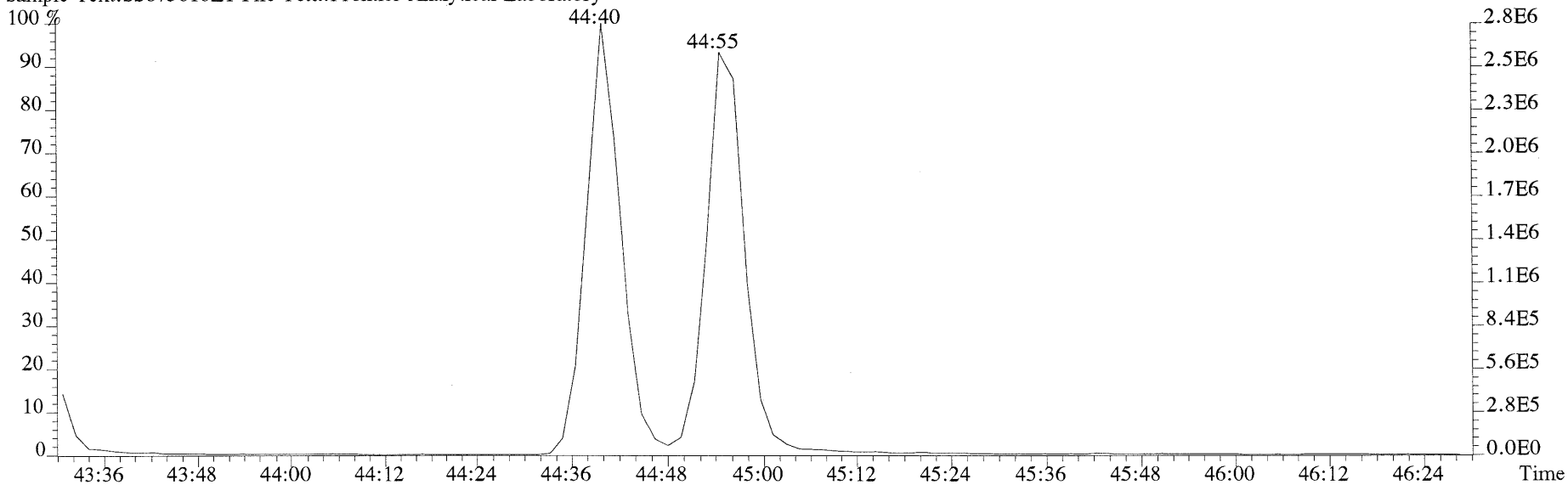
PCB-205	2.73e+07	0.93	y	50:06	1.15	50.3	2.50	-	-	*	
13C-PCB-205	4.73e+07	0.90	y	50:06	1.30	98.3	2.50				98.3
PCB-208	2.26e+07	1.35	y	49:09	1.05	46.7	2.50	-	-	*	
13C-PCB-208	4.59e+07	0.80	y	49:08	1.04	120	2.50				120
PCB-206	1.84e+07	1.38	y	51:19	1.04	46.3	2.50	-	-	*	
13C-PCB-206	3.83e+07	0.80	y	51:18	0.86	120	2.50				120
PCB-209	2.29e+07	1.19	y	52:28	1.10	54.4	2.50	-	-	*	
13C-PCB-209	3.82e+07	1.23	y	52:27	0.98	106	2.50				106
13C-PCB-194	3.69e+07	0.91	y	49:50	-	117	2.50				

Analyst: b Date: 7/31/18

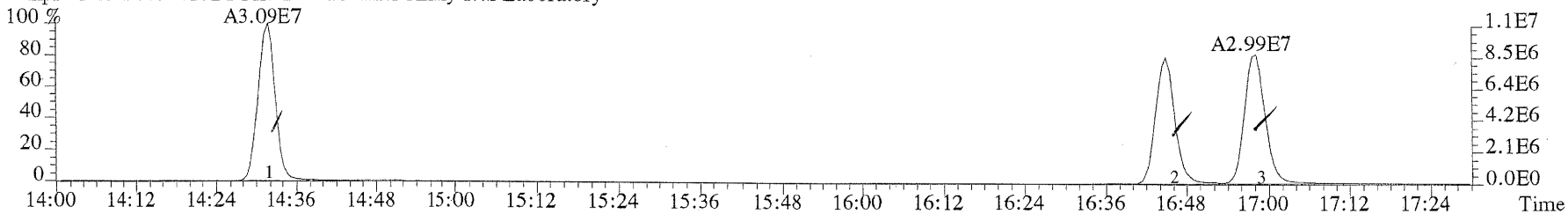
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



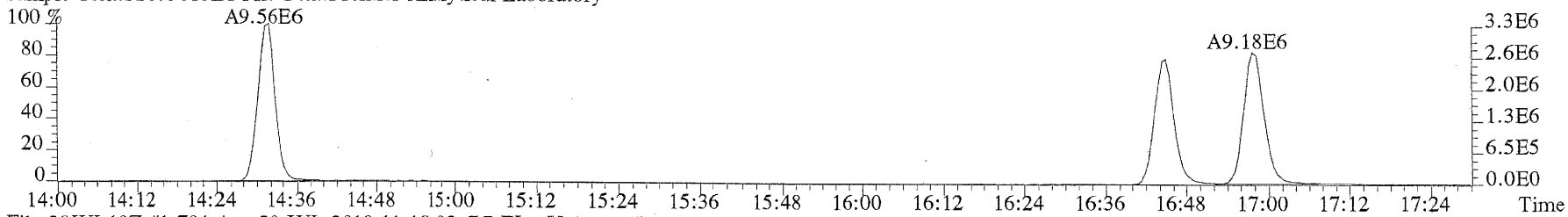
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



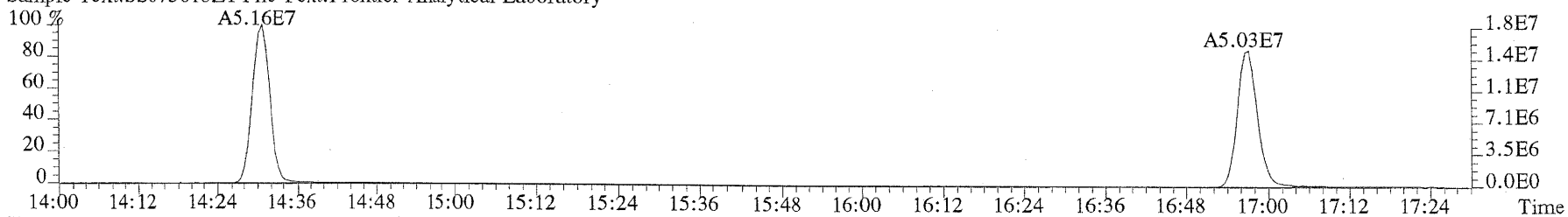
File:30JUL18Z #1-784 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



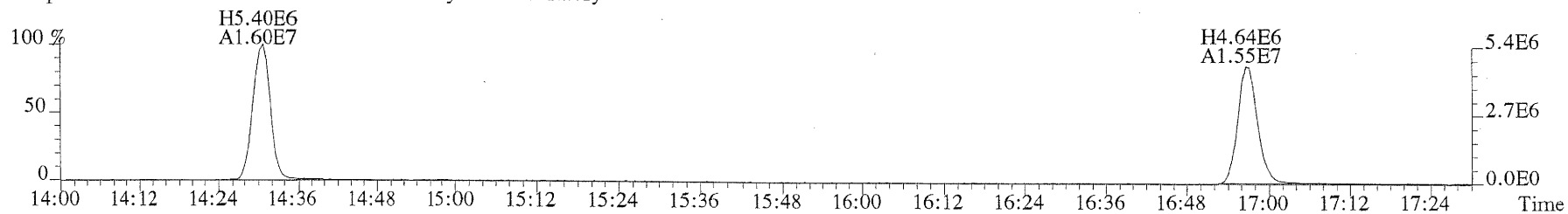
File:30JUL18Z #1-784 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



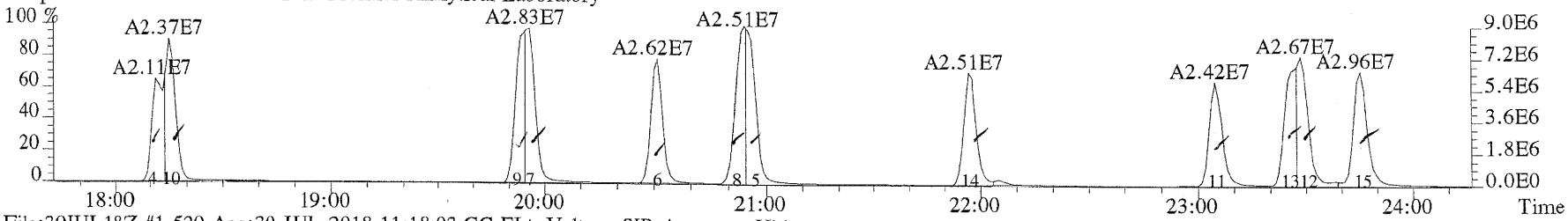
File:30JUL18Z #1-784 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



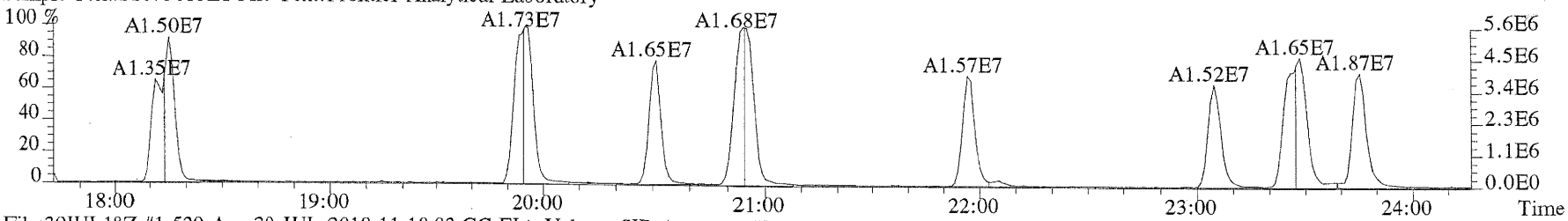
File:30JUL18Z #1-784 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



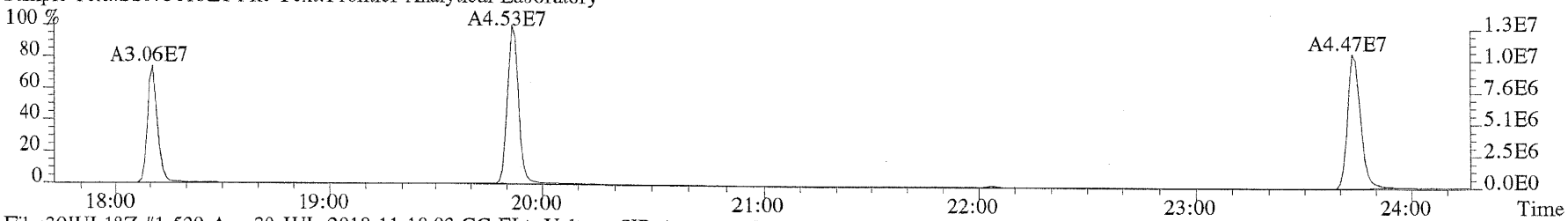
File:30JUL18Z #1-520 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



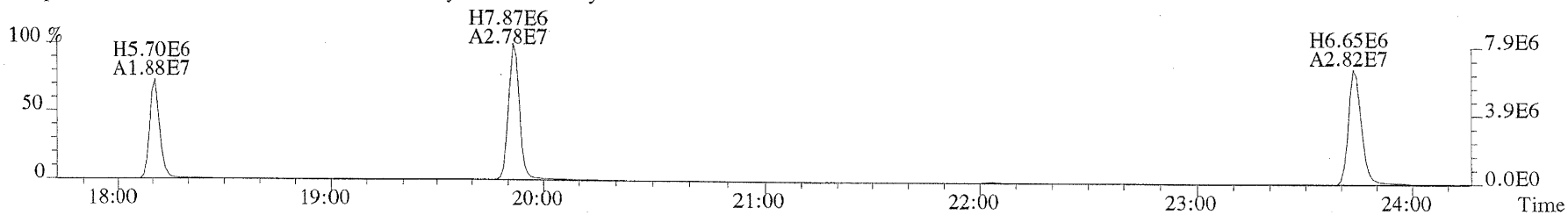
File:30JUL18Z #1-520 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



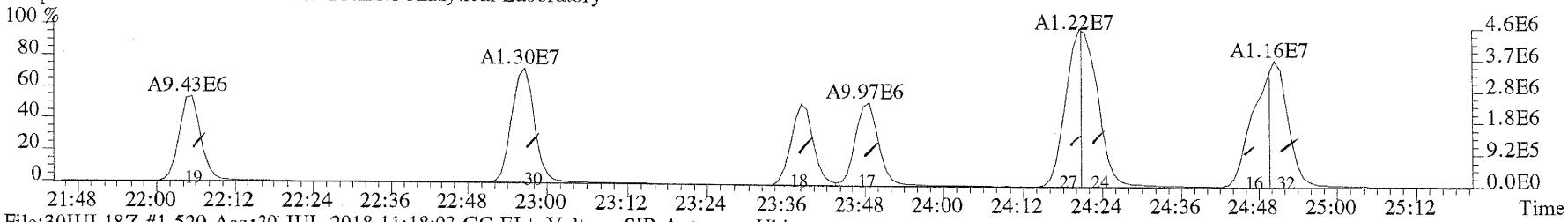
File:30JUL18Z #1-520 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



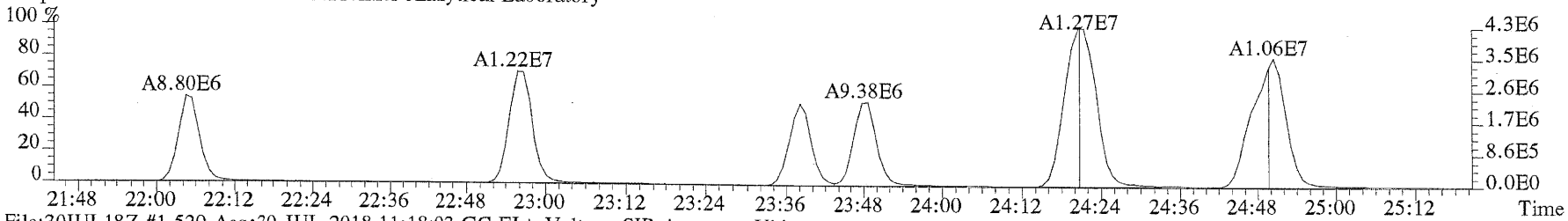
File:30JUL18Z #1-520 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



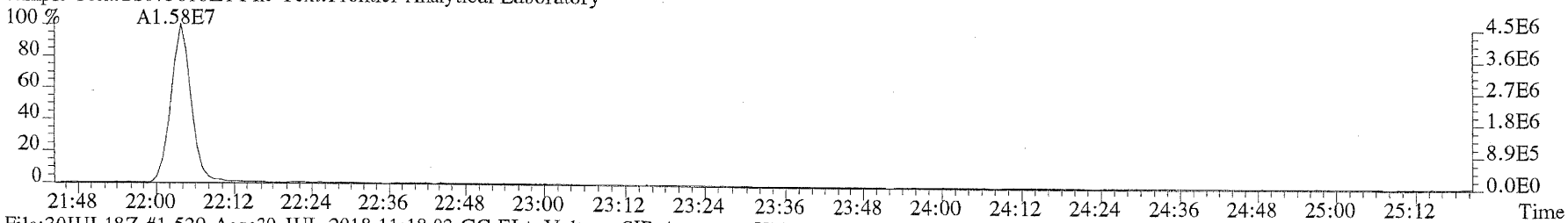
File:30JUL18Z #1-520 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



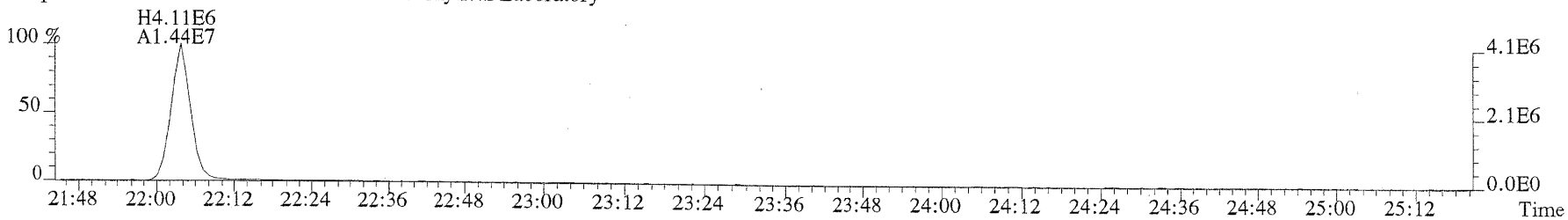
File:30JUL18Z #1-520 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



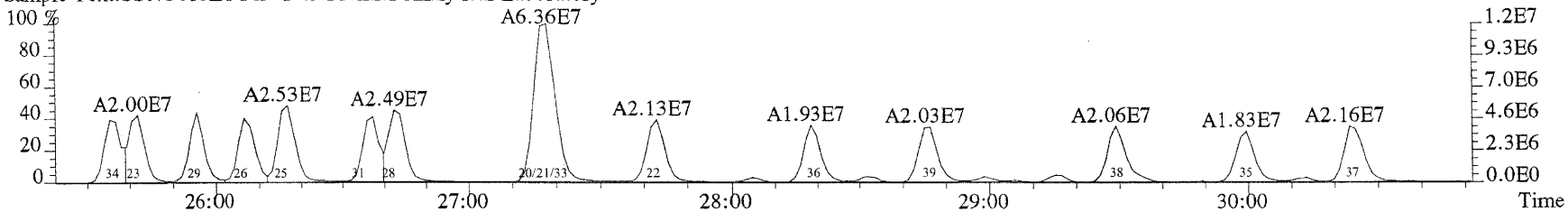
File:30JUL18Z #1-520 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



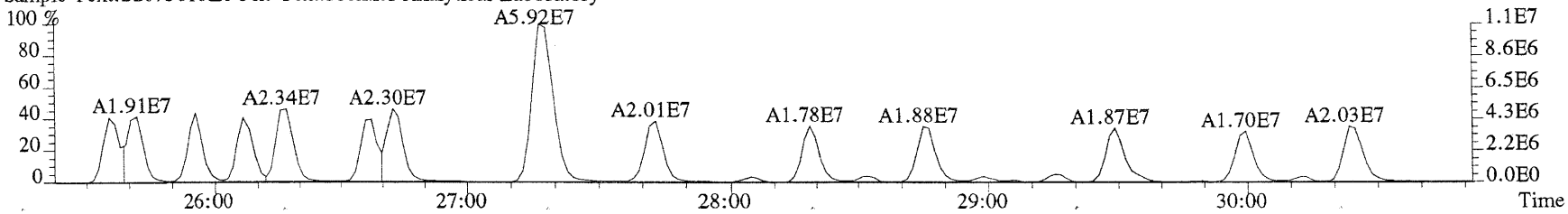
File:30JUL18Z #1-520 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



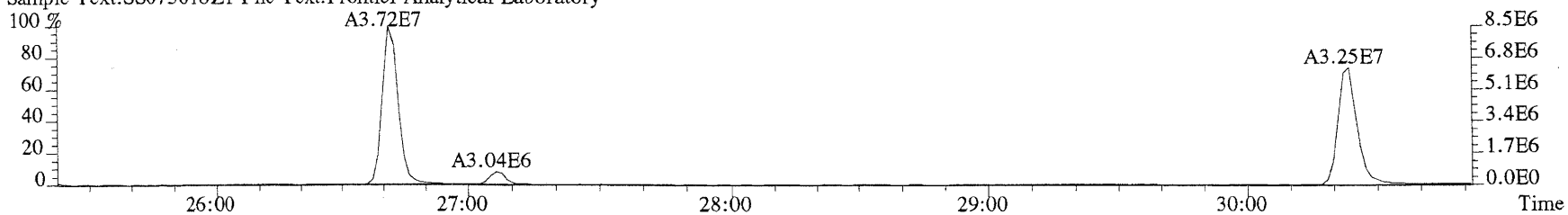
File:30JUL18Z #1-401 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



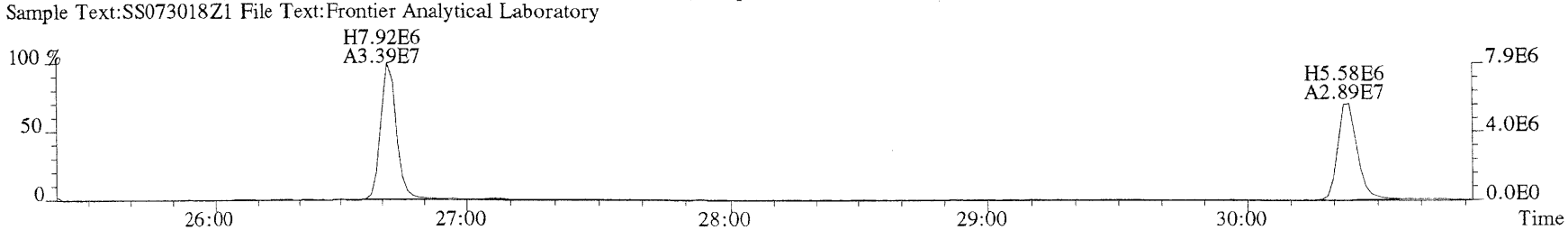
File:30JUL18Z #1-401 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



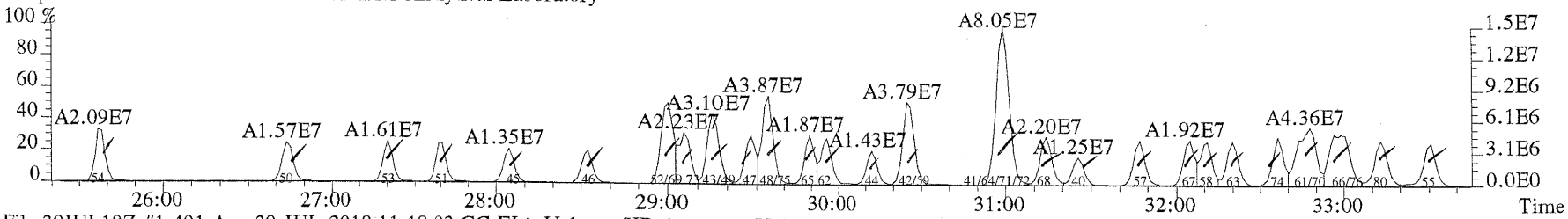
File:30JUL18Z #1-401 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



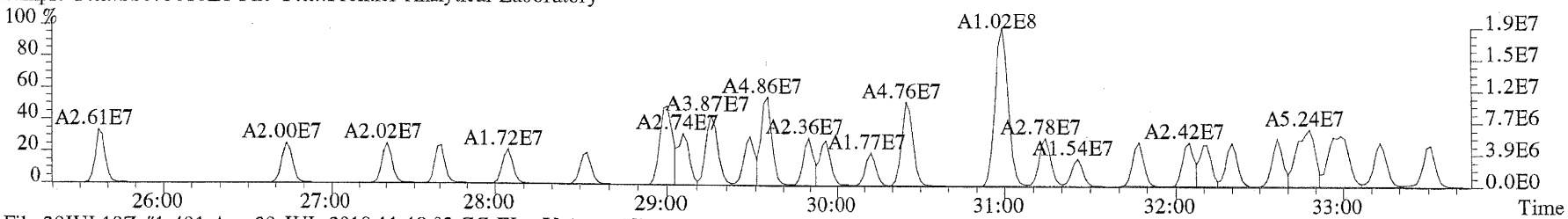
File:30JUL18Z #1-401 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



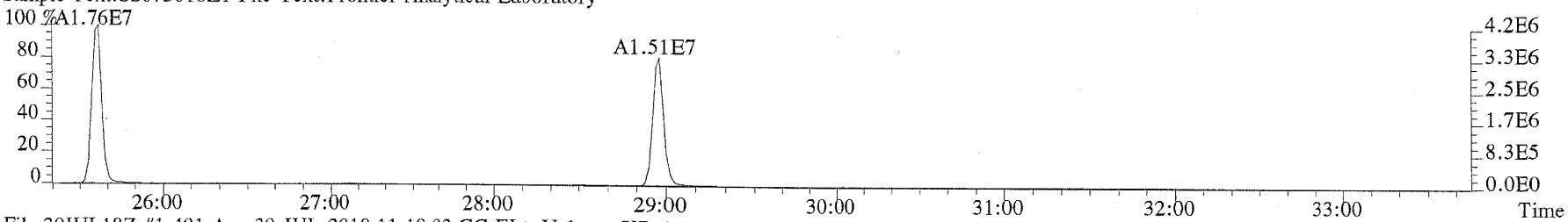
File:30JUL18Z #1-401 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



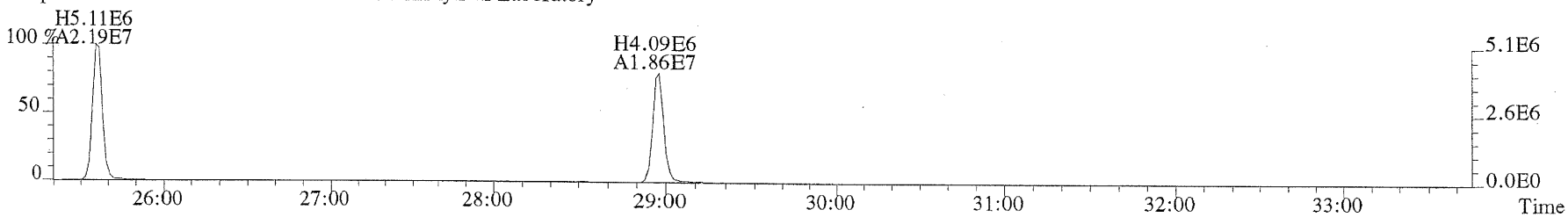
File:30JUL18Z #1-401 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



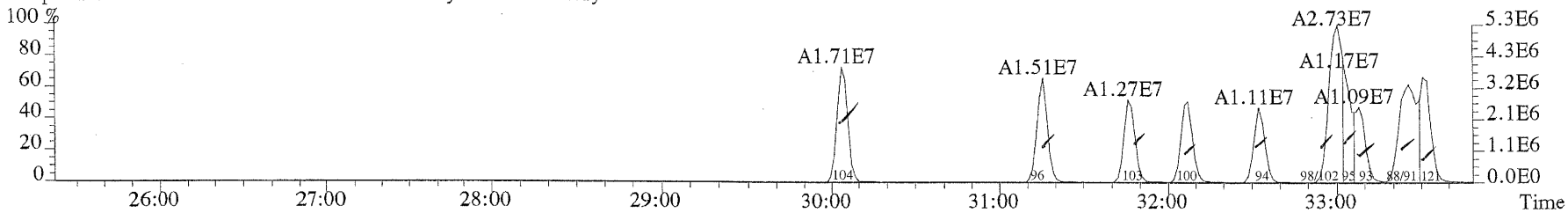
File:30JUL18Z #1-401 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



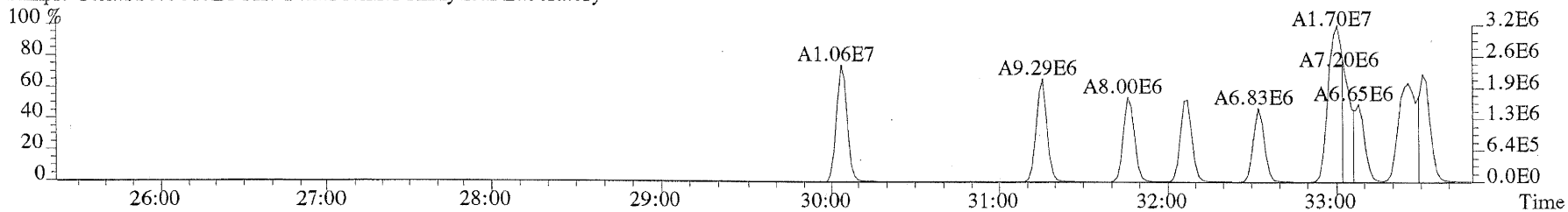
File:30JUL18Z #1-401 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



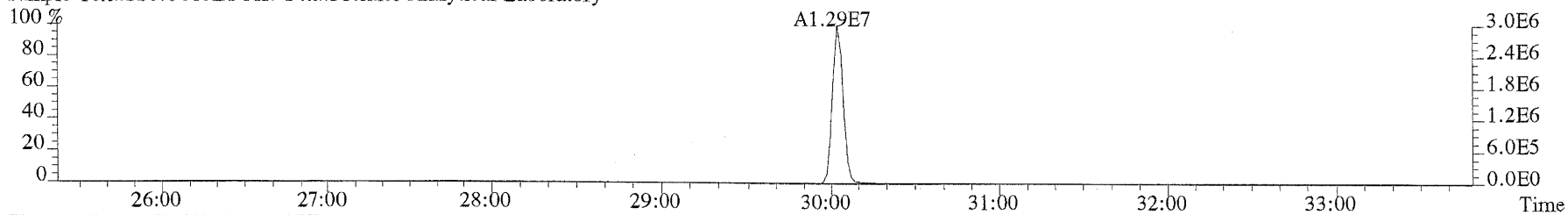
File:30JUL18Z #1-401 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



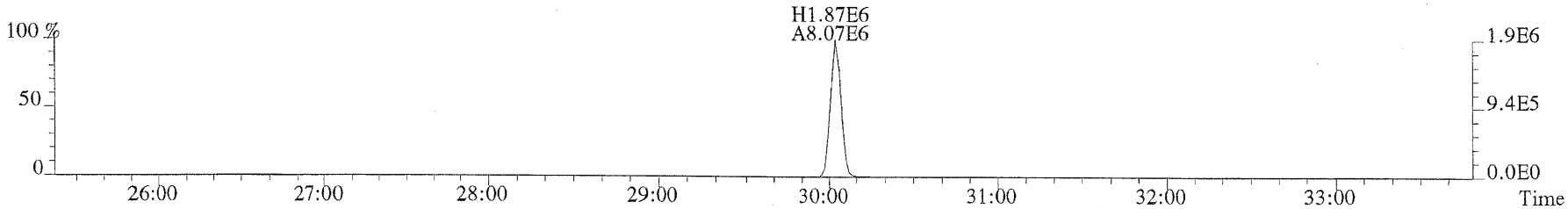
File:30JUL18Z #1-401 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



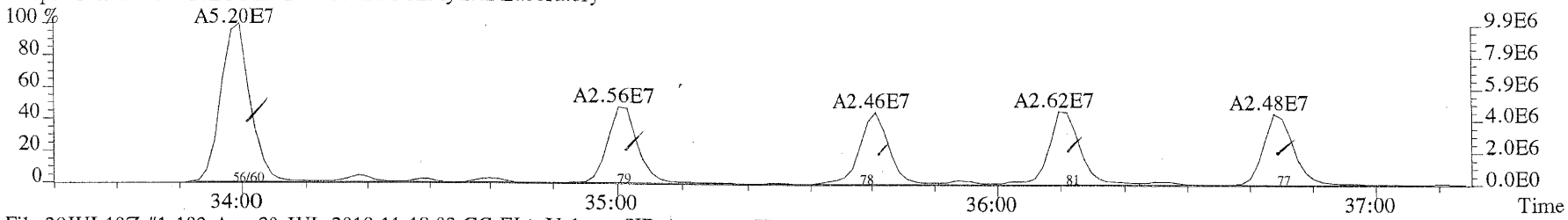
File:30JUL18Z #1-401 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



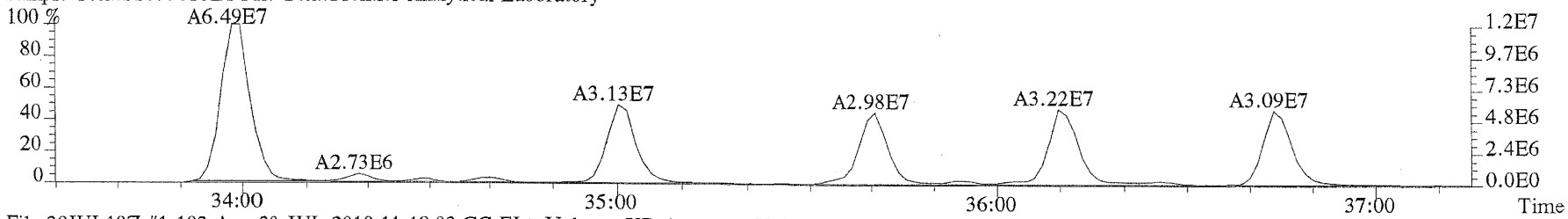
File:30JUL18Z #1-401 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



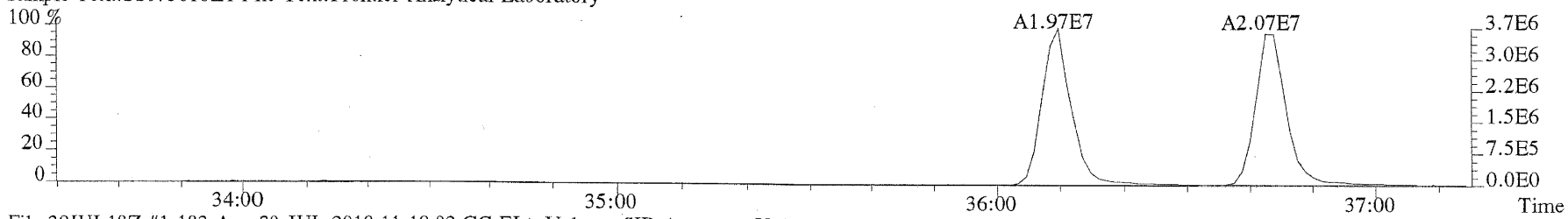
File:30JUL18Z #1-183 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



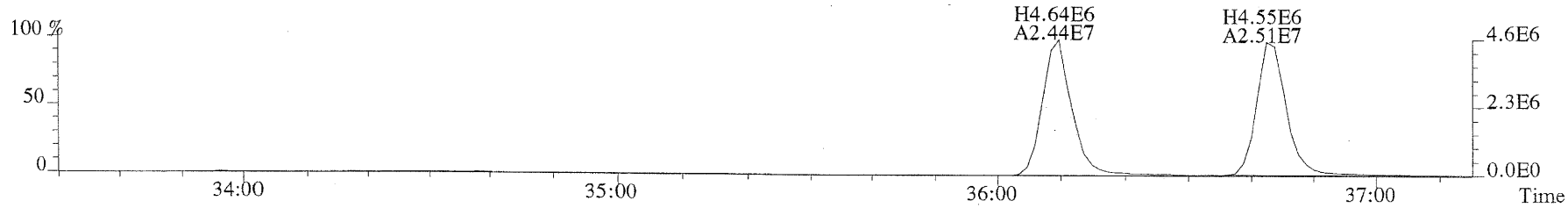
File:30JUL18Z #1-183 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



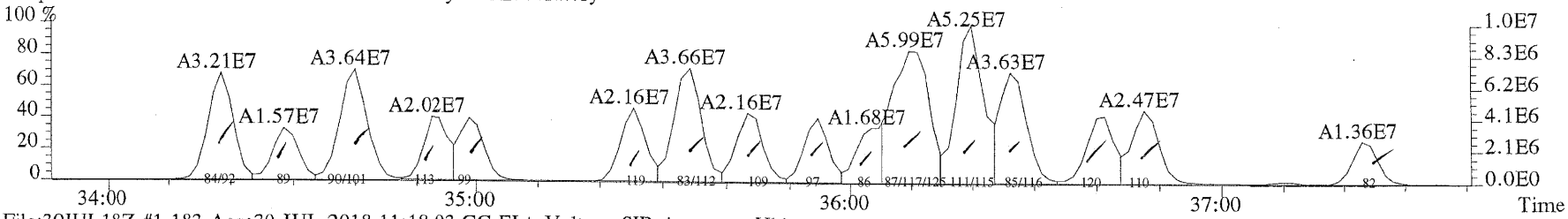
File:30JUL18Z #1-183 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



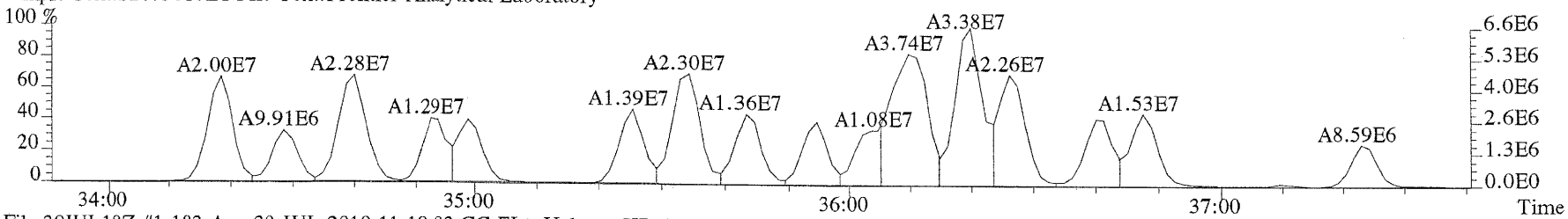
File:30JUL18Z #1-183 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



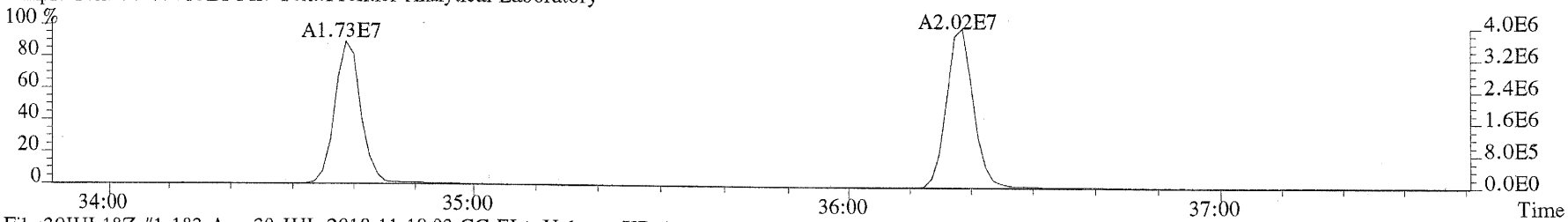
File:30JUL18Z #1-183 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



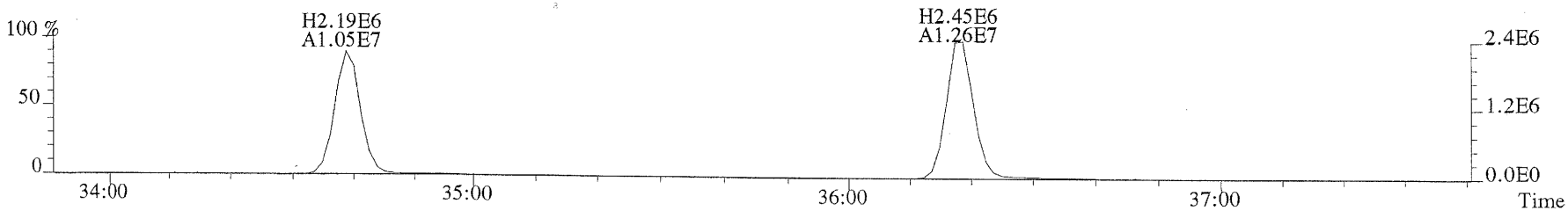
File:30JUL18Z #1-183 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



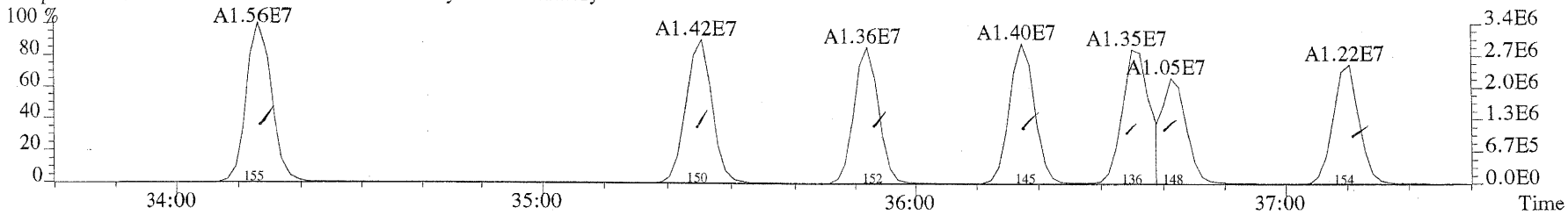
File:30JUL18Z #1-183 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



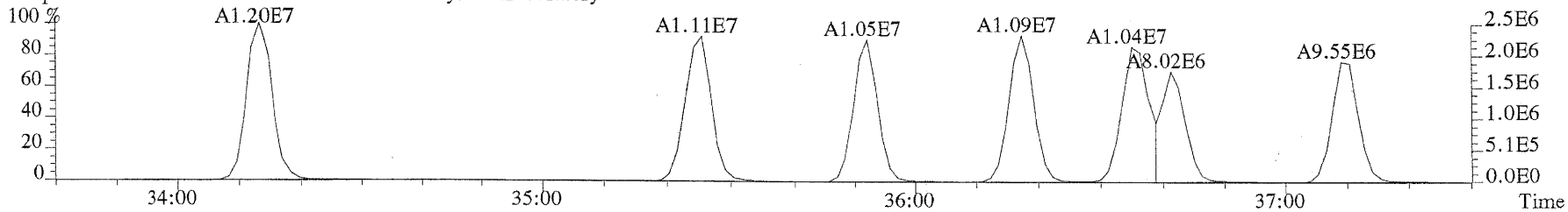
File:30JUL18Z #1-183 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



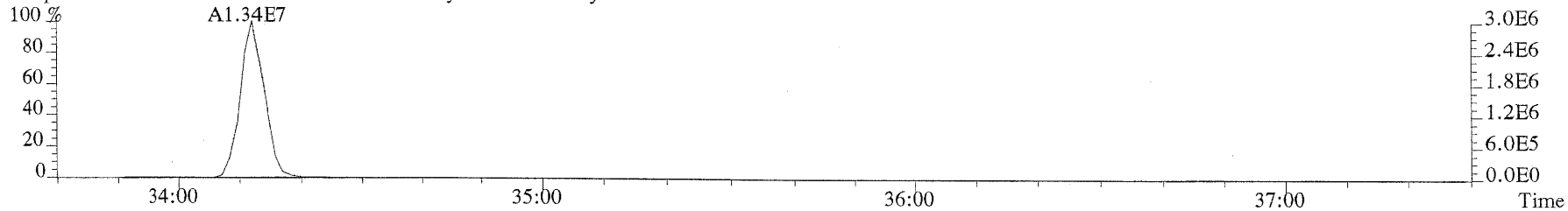
File:30JUL18Z #1-183 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



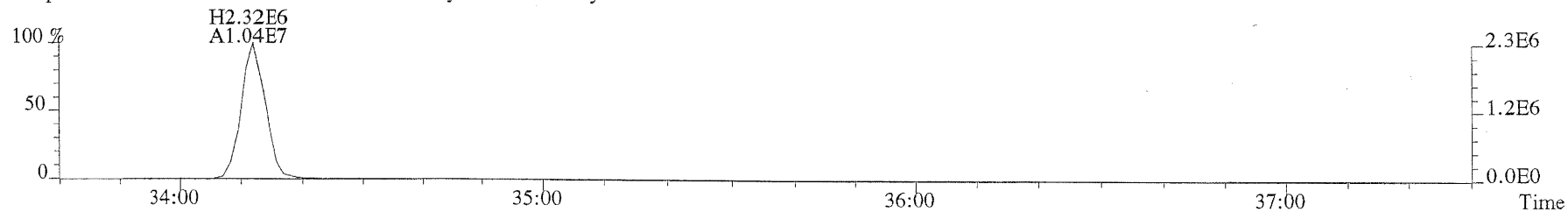
File:30JUL18Z #1-183 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



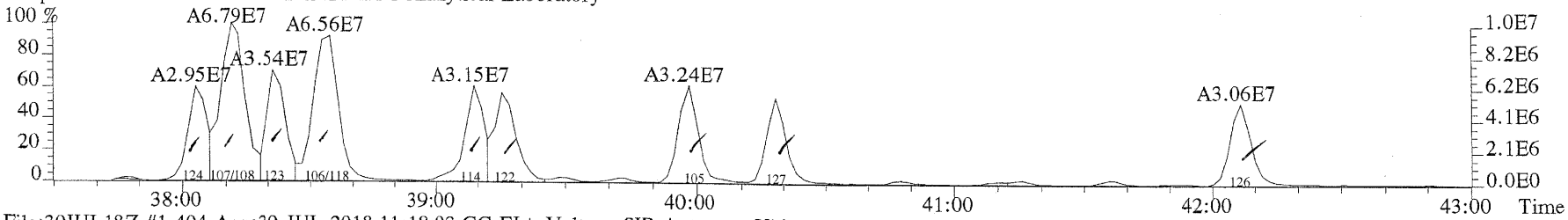
File:30JUL18Z #1-183 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



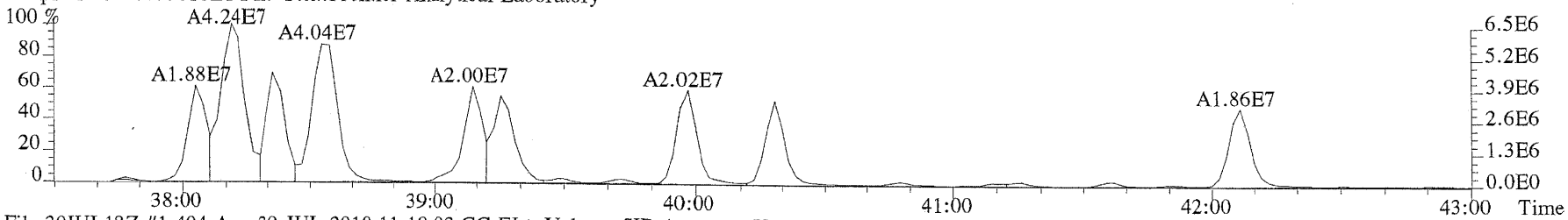
File:30JUL18Z #1-183 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



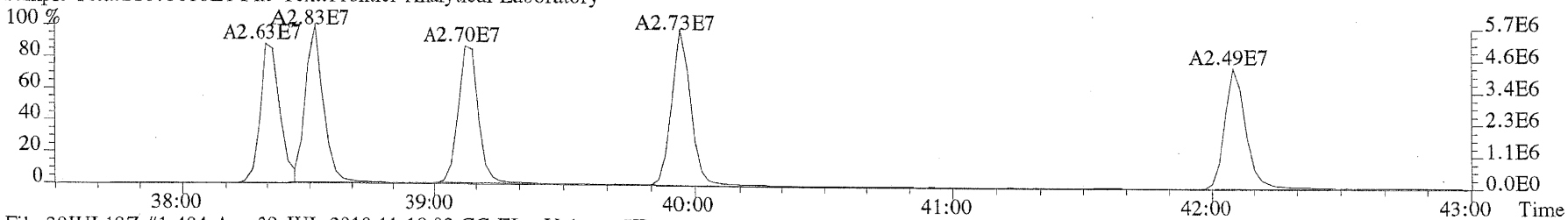
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



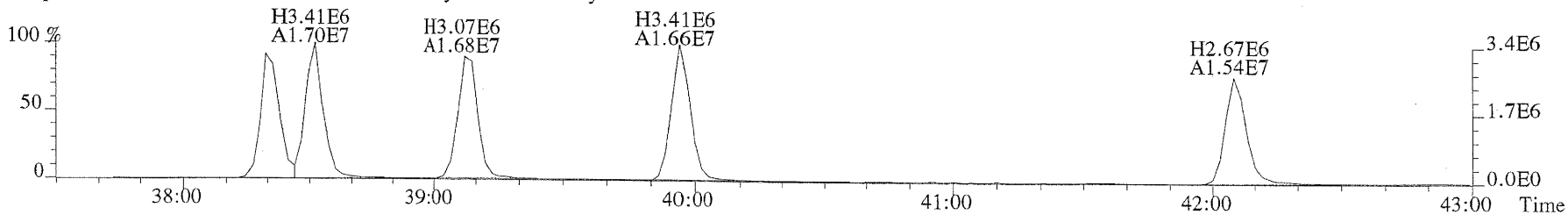
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



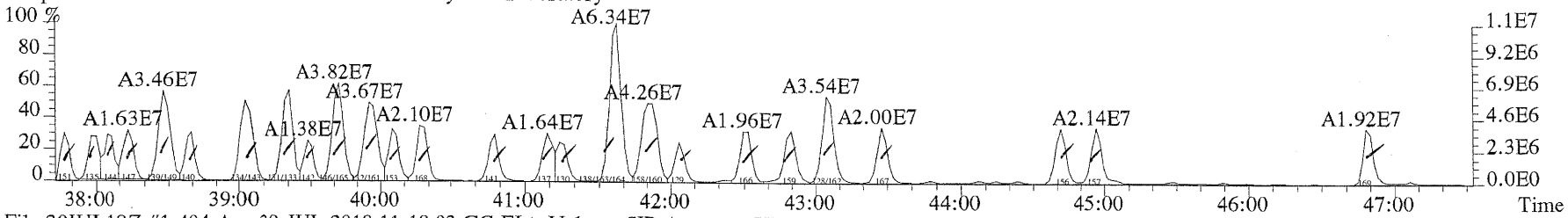
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



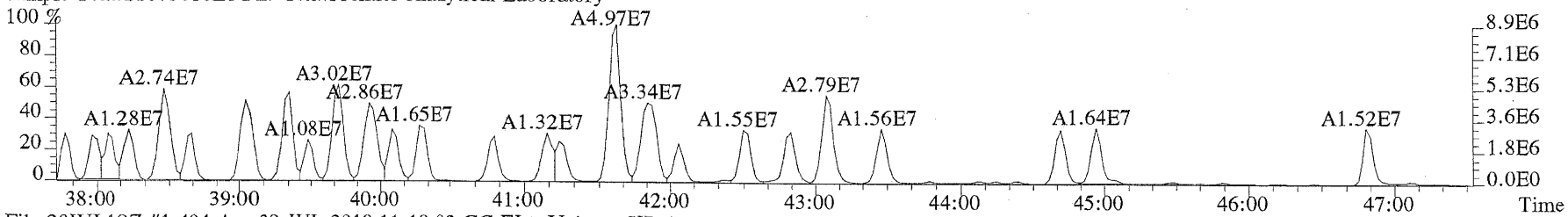
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



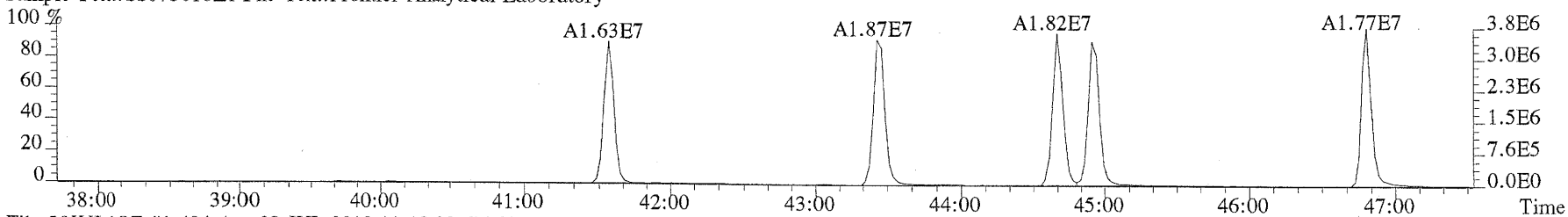
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



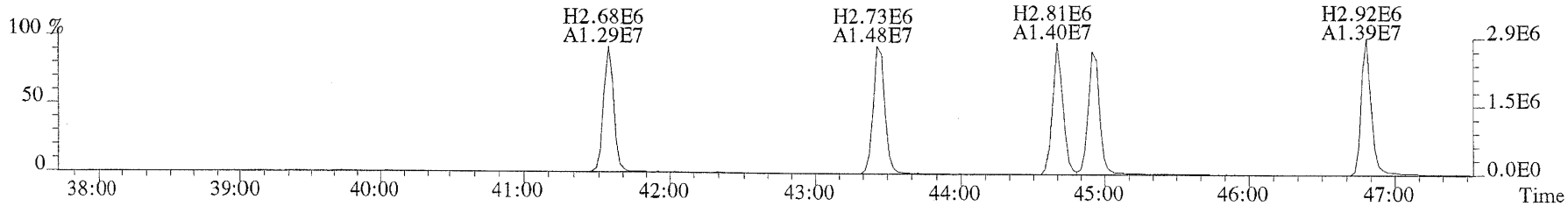
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



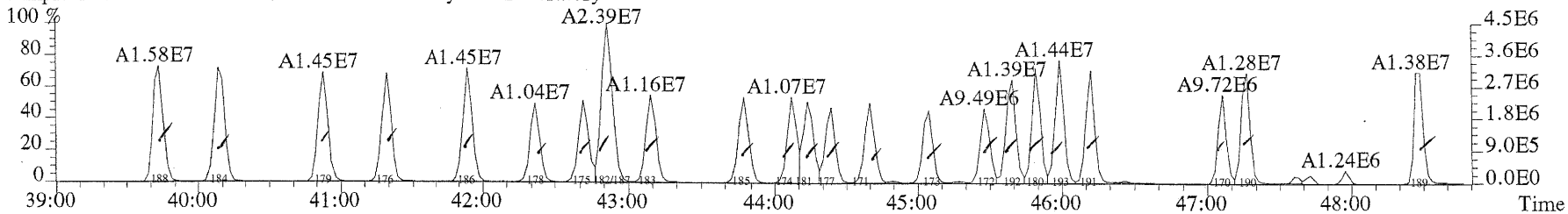
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



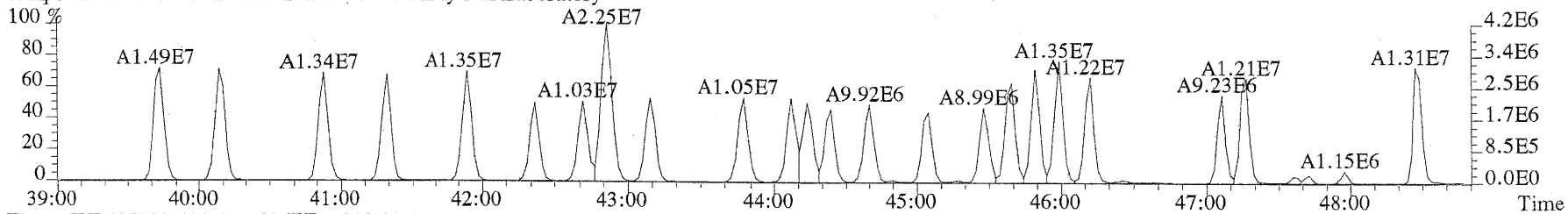
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



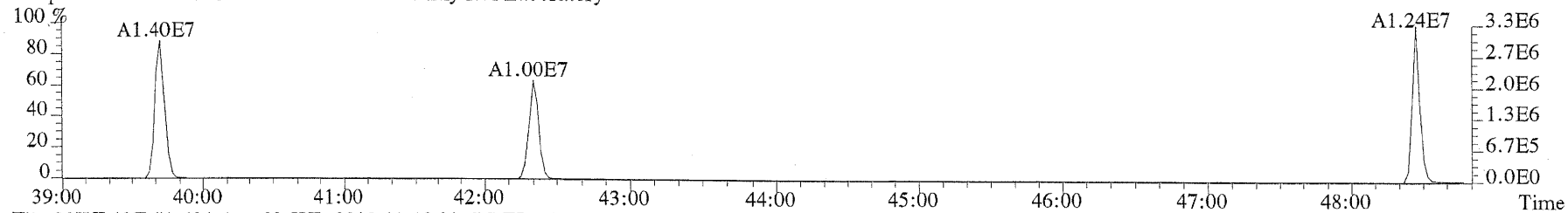
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



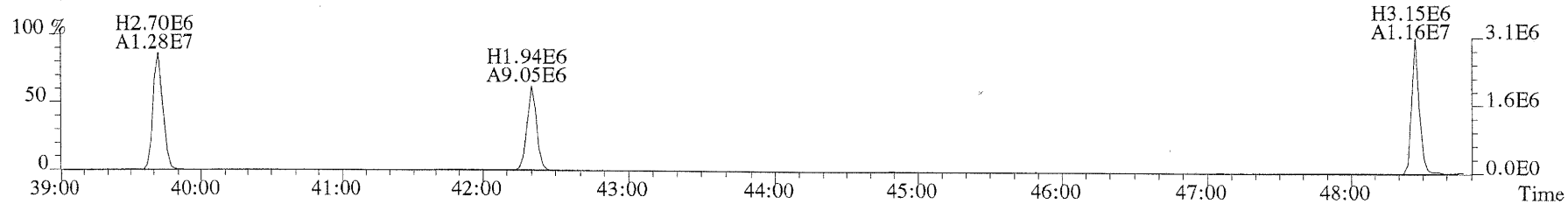
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



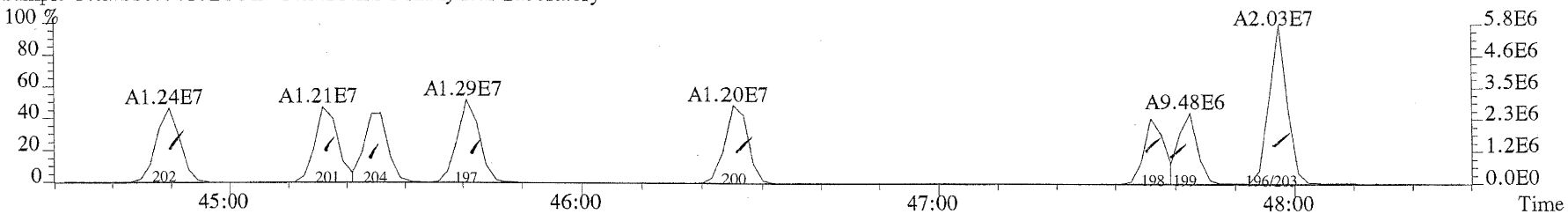
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



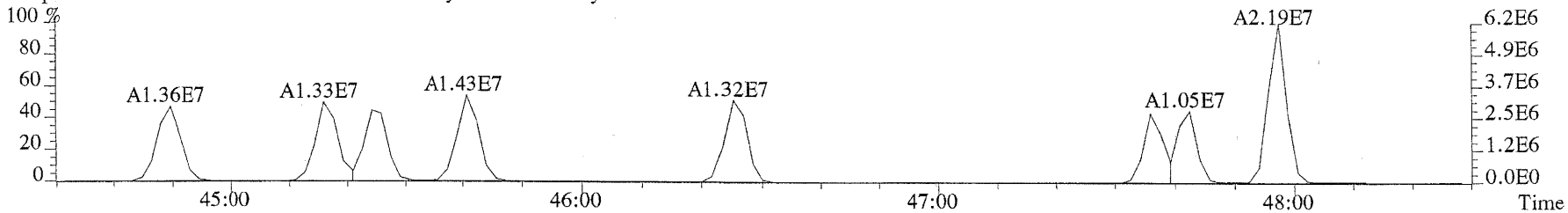
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



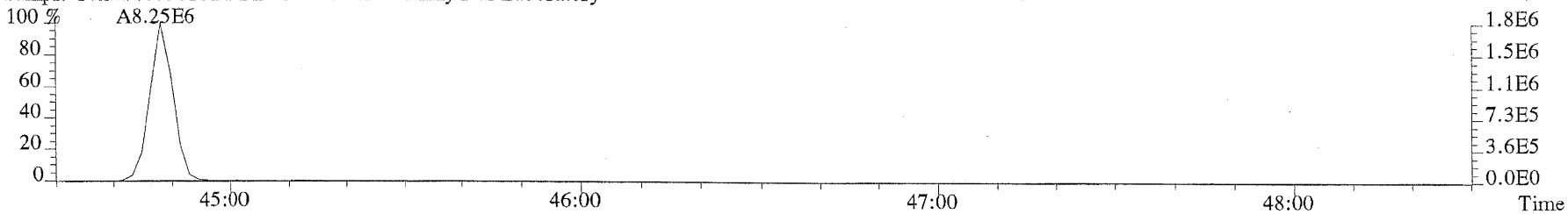
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



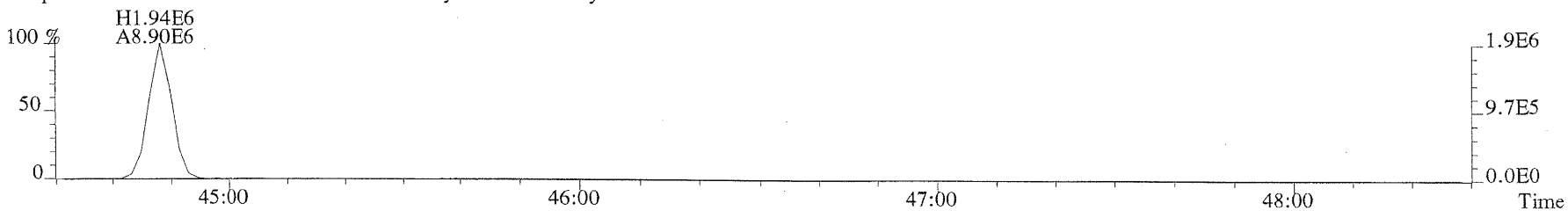
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



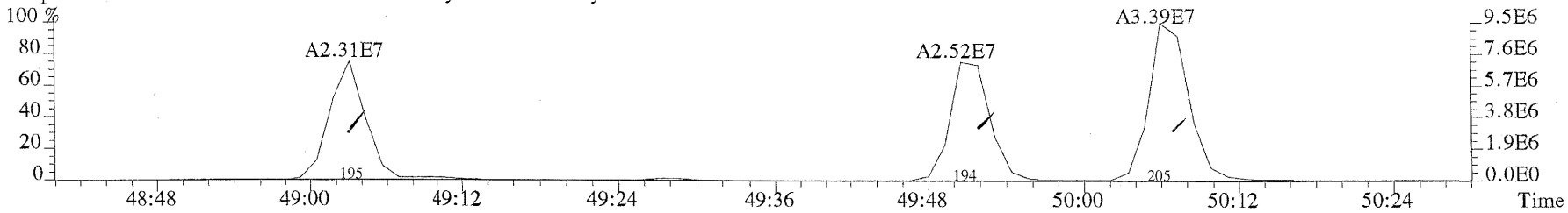
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



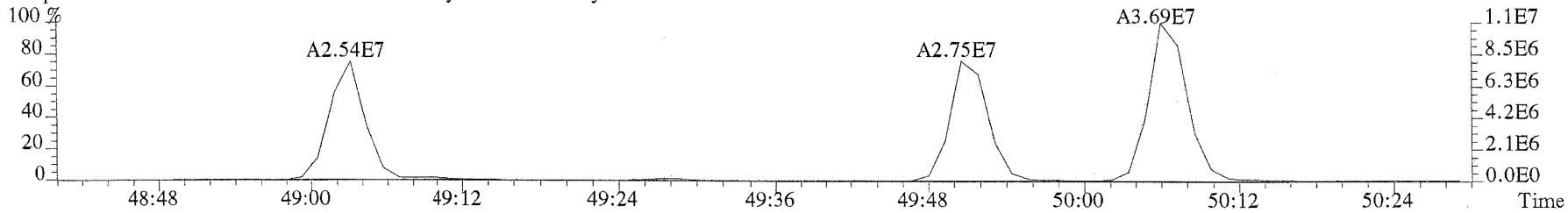
File:30JUL18Z #1-404 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



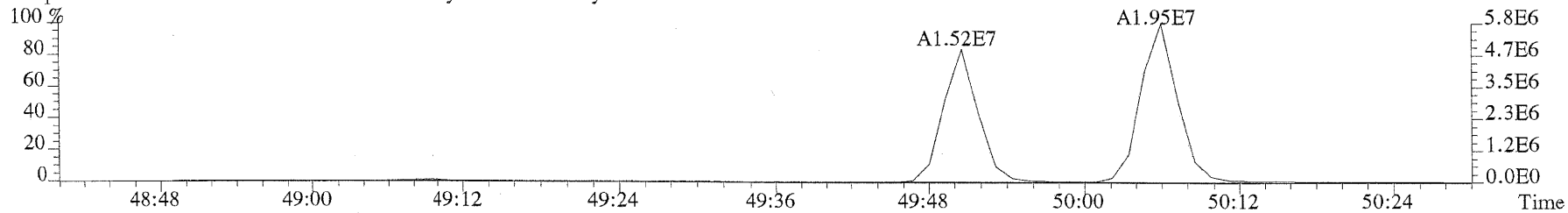
File:30JUL18Z #1-250 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



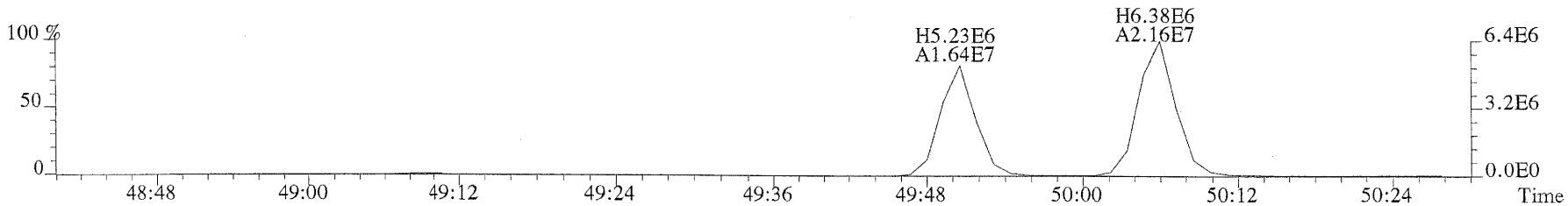
File:30JUL18Z #1-250 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



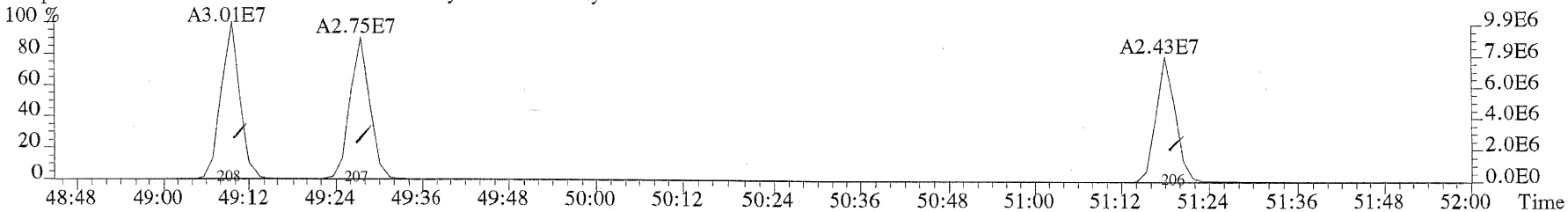
File:30JUL18Z #1-250 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



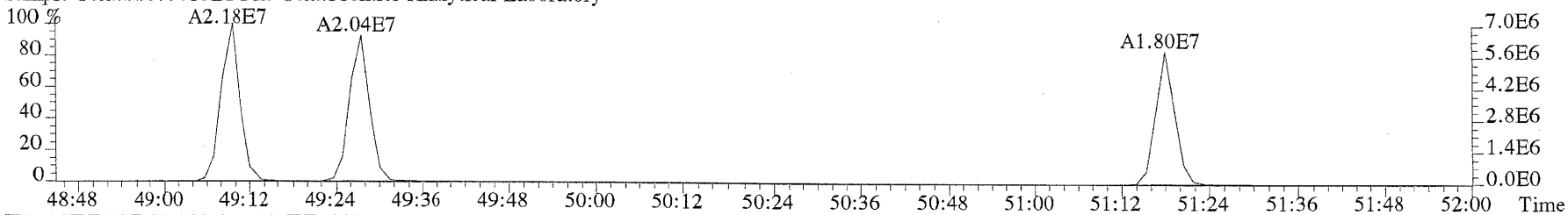
File:30JUL18Z #1-250 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



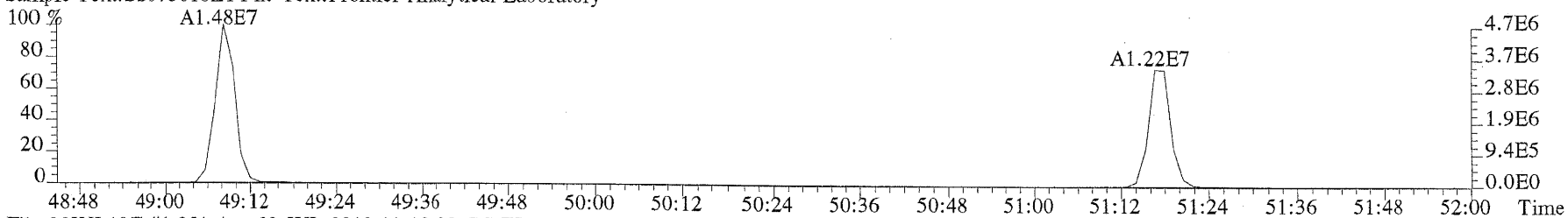
File:30JUL18Z #1-251 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



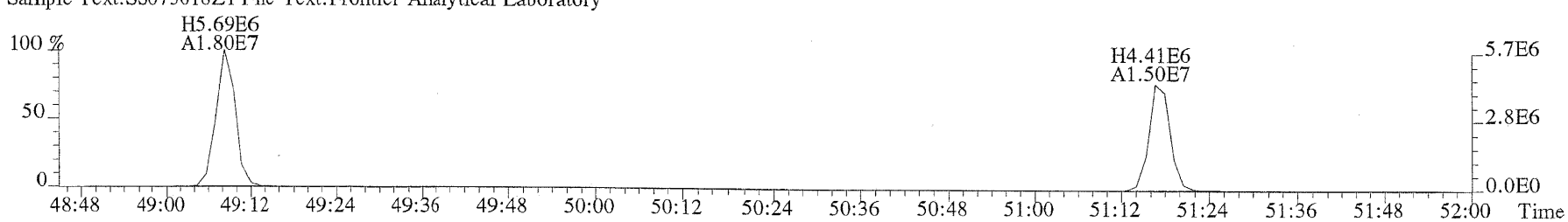
File:30JUL18Z #1-251 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



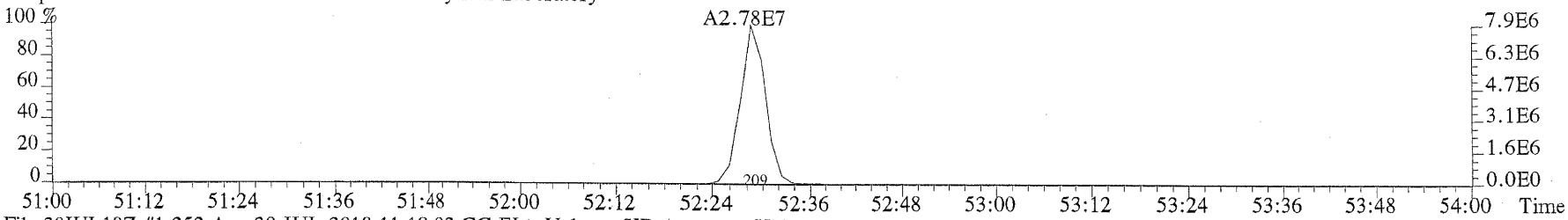
File:30JUL18Z #1-251 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



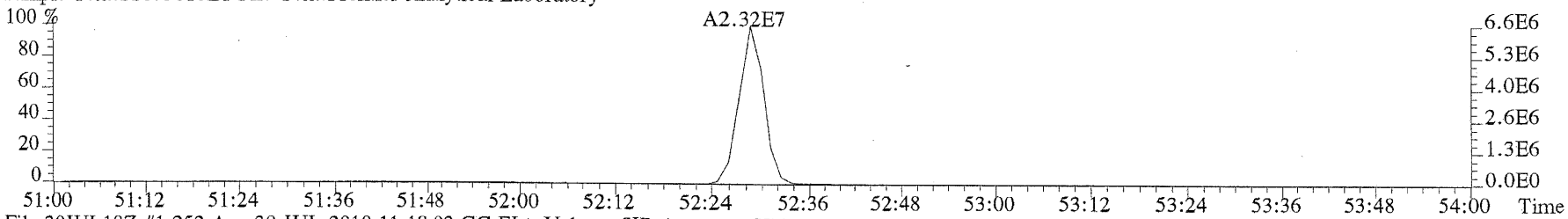
File:30JUL18Z #1-251 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



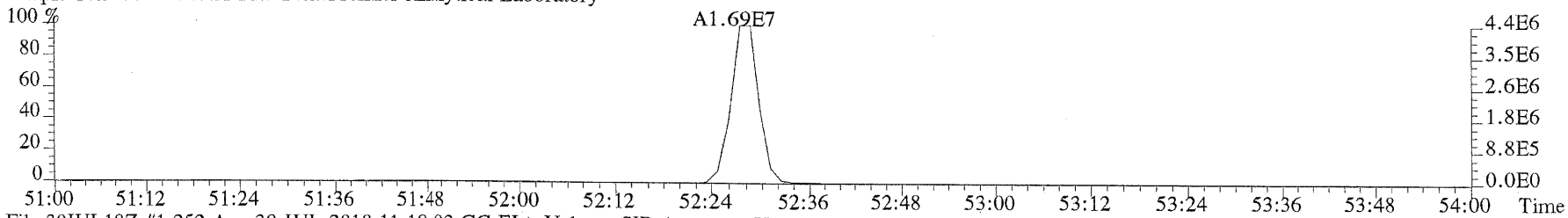
File:30JUL18Z #1-252 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



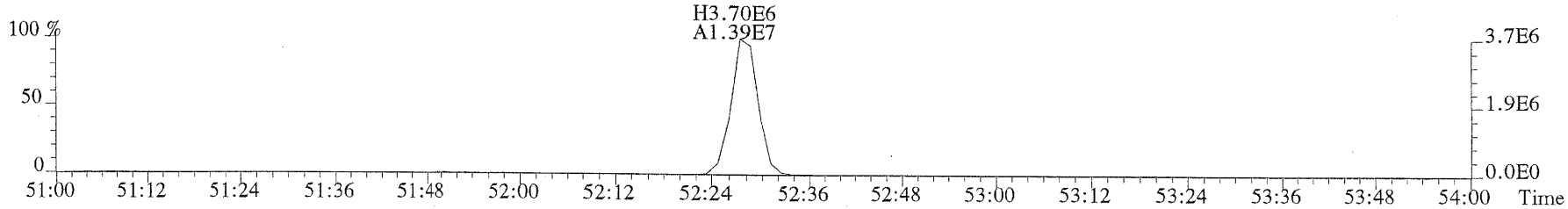
File:30JUL18Z #1-252 Acq:30-JUL-2018 11:18:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073018Z1 File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-252 Acq:30-JUL-2018 11:18:03 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:SS073018Z1 File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-252 Acq:30-JUL-2018 11:18:03 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:SS073018Z1 File Text:Frontier Analytical Laboratory



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: 30JUL18Z Sam:16 Analysis Date: 31-JUL-18 00:58:33

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.18	2.66-3.60	y	54.8	37.5 - 62.5
PCB-3	M/M+2	3.20	2.66-3.60	y	53.7	37.5 - 62.5
PCB-4	M/M+2	1.53	1.33-1.79	y	56.2	37.5 - 62.5
PCB-15	M/M+2	1.59	1.33-1.79	y	56.3	37.5 - 62.5
PCB-19	M/M+2	1.08	0.88-1.20	y	54.8	37.5 - 62.5
PCB-37	M/M+2	1.13	0.88-1.20	y	51.6	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	50.5	37.5 - 62.5
PCB-77	M/M+2	0.83	0.65-0.89	y	55.0	37.5 - 62.5
PCB-81	M/M+2	0.83	0.65-0.89	y	54.8	37.5 - 62.5
PCB-104	M+2/M+4	1.65	1.32-1.78	y	51.1	37.5 - 62.5
PCB-105	M+2/M+4	1.63	1.32-1.78	y	52.5	37.5 - 62.5
PCB-114	M+2/M+4	1.62	1.32-1.78	y	52.6	37.5 - 62.5
PCB-118	M+2/M+4	1.66	1.32-1.78	y	51.4	37.5 - 62.5
PCB-123	M+2/M+4	1.61	1.32-1.78	y	52.3	37.5 - 62.5
PCB-126	M+2/M+4	1.64	1.32-1.78	y	52.0	37.5 - 62.5
PCB-155	M+2/M+4	1.34	1.05-1.43	y	56.0	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	51.3	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	1.25	1.05-1.43	y	51.8	37.5 - 62.5
PCB-169	M+2/M+4	1.26	1.05-1.43	y	50.8	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	48.8	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	52.7	37.5 - 62.5
PCB-202	M+2/M+4	0.95	0.76-1.02	y	54.3	37.5 - 62.5
PCB-205	M+2/M+4	0.93	0.76-1.02	y	55.4	37.5 - 62.5
PCB-206	M+4/M+6	1.38	1.13-1.53	y	49.2	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	51.1	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	51.1	37.5 - 62.5

Analyst: _____ Date: 7/31/18

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: 30JUL18Z Sam:16 Analysis Date: 31-JUL-18 00:58:33

	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	3.34	2.66-3.60	y	78.4	50.0 - 145
13C-PCB-3	M/M+2	3.39	2.66-3.60	y	83.8	50.0 - 145
13C-PCB-4	M/M+2	1.63	1.33-1.79	y	99.1	50.0 - 145
13C-PCB-15	M/M+2	1.62	1.33-1.79	y	99.6	50.0 - 145
13C-PCB-19	M/M+2	1.13	0.88-1.20	y	83.1	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	96.9	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	103	50.0 - 145
13C-PCB-77	M/M+2	0.82	0.65-0.89	y	108	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	108	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	95.1	50.0 - 145
13C-PCB-105	M+2/M+4	1.64	1.32-1.78	y	101	50.0 - 145
13C-PCB-114	M+2/M+4	1.62	1.32-1.78	y	102	50.0 - 145
13C-PCB-118	M+2/M+4	1.62	1.32-1.78	y	102	50.0 - 145
13C-PCB-123	M+2/M+4	1.62	1.32-1.78	y	101	50.0 - 145
13C-PCB-126	M+2/M+4	1.64	1.32-1.78	y	104	50.0 - 145
13C-PCB-155	M+2/M+4	1.37	1.05-1.43	y	79.2	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	105	50.0 - 145
13C-PCB-157	M+2/M+4	1.24	1.05-1.43	y	108	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	107	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	115	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	90.7	50.0 - 145
13C-PCB-189	M+2/M+4	1.10	0.89-1.21	y	108	50.0 - 145
13C-PCB-202	M+2/M+4	0.94	0.76-1.02	y	78.2	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	97.2	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	111	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	93.6	50.0 - 145
13C-PCB-209	M+4/M+6	1.23	0.99-1.33	y	99.1	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.09	0.88-1.20	y	101	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	102	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	89.6	75.0 - 125

Analyst: _____ Date: 7/31/18

FAL ID: ST073018Z2 Filename: 30JUL18Z Sam:16 Acquired: 31-JUL-18 00:58:33 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 27JUL18Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.95e+07	3.18 y	14:32	1.11	54.8		2.50	-	-	*	-
13C-PCB-1	6.52e+07	3.34 y	14:31	1.07	78.4		2.50				78.4
PCB-3	4.09e+07	3.20 y	16:59	1.13	53.7		2.50	-	-	*	-
13C-PCB-3	6.75e+07	3.39 y	16:58	1.03	83.8		2.50				83.8
PCB-4	3.35e+07	1.53 y	18:12	1.14	56.2		2.50	-	-	*	-
13C-PCB-4	5.21e+07	1.63 y	18:11	0.67	99.1		2.50				99.1
PCB-15	4.99e+07	1.59 y	23:45	1.10	56.3		2.50	-	-	*	-
13C-PCB-15	8.02e+07	1.62 y	23:44	1.03	99.6		2.50				99.6
PCB-19	2.05e+07	1.08 y	22:05	1.23	54.8		2.50	-	-	*	-
13C-PCB-19	3.05e+07	1.13 y	22:03	0.47	83.1		2.50				83.1
13C-PCB-9	7.80e+07	1.63 y	19:52	-	333		2.50				
PCB-37	3.25e+07	1.13 y	30:25	1.26	51.6		2.50	-	-	*	-
13C-PCB-37	5.01e+07	1.09 y	30:23	1.40	96.9		2.50				96.9
PCB-54	2.65e+07	0.78 y	25:38	1.16	50.5		2.50	-	-	*	-
13C-PCB-54	4.54e+07	0.79 y	25:35	1.19	103		2.50				103
PCB-104	1.76e+07	1.65 y	30:03	1.22	51.1		2.50	-	-	*	-
13C-PCB-104	2.81e+07	1.61 y	30:02	0.80	95.1		2.50				95.1
13C-PCB-28	5.73e+07	1.09 y	26:42	1.53	101		2.50				101
13C-PCB-52	3.71e+07	0.77 y	28:57	-	286		2.50				
PCB-81	3.24e+07	0.83 y	36:11	1.17	54.8		2.50	-	-	*	-
13C-PCB-81	5.05e+07	0.81 y	36:10	1.37	108		2.50				108
PCB-77	3.14e+07	0.83 y	36:45	1.11	55.0		2.50	-	-	*	-
13C-PCB-77	5.15e+07	0.82 y	36:44	1.41	108		2.50				108
PCB-155	1.76e+07	1.34 y	34:13	1.14	56.0		2.50	-	-	*	-
13C-PCB-155	2.75e+07	1.37 y	34:12	1.02	79.2		2.50				79.2
13C-PCB-111	4.37e+07	1.60 y	36:18	1.26	102		2.50				102
13C-PCB-101	3.41e+07	1.57 y	34:38	-	301		2.50				
PCB-123	2.73e+07	1.61 y	38:21	1.12	52.3		2.50	-	-	*	-
13C-PCB-123	4.64e+07	1.62 y	38:21	1.36	101		2.50				101
PCB-118	2.92e+07	1.66 y	38:33	1.16	51.4		2.50	-	-	*	-
13C-PCB-118	4.91e+07	1.62 y	38:31	1.42	102		2.50				102
PCB-114	2.83e+07	1.62 y	39:09	1.13	52.6		2.50	-	-	*	-
13C-PCB-114	4.79e+07	1.62 y	39:09	1.38	102		2.50				102
PCB-105	2.74e+07	1.63 y	39:58	1.11	52.5		2.50	-	-	*	-
13C-PCB-105	4.70e+07	1.64 y	39:57	1.38	101		2.50				101
PCB-126	2.62e+07	1.64 y	42:07	1.11	52.0		2.50	-	-	*	-
13C-PCB-126	4.53e+07	1.64 y	42:05	1.29	104		2.50				104
PCB-167	2.44e+07	1.25 y	43:27	1.05	51.8		2.50	-	-	*	-
13C-PCB-167	4.49e+07	1.27 y	43:27	1.23	107		2.50				107
PCB-156	2.33e+07	1.27 y	44:41	1.08	51.3		2.50	-	-	*	-
13C-PCB-156	4.22e+07	1.29 y	44:40	1.19	105		2.50				105
PCB-157	2.46e+07	1.27 y	44:56	1.06	51.4		2.50	-	-	*	-
13C-PCB-157	4.53e+07	1.24 y	44:56	1.24	108		2.50				108
PCB-169	2.41e+07	1.26 y	46:50	1.06	50.8		2.50	-	-	*	-
13C-PCB-169	4.46e+07	1.27 y	46:48	1.15	115		2.50				115
PCB-188	1.93e+07	1.08 y	39:43	1.14	48.8		2.50	-	-	*	-
13C-PCB-188	3.46e+07	1.09 y	39:42	1.13	90.7		2.50				90.7
PCB-189	2.04e+07	1.07 y	48:28	1.12	52.7		2.50	-	-	*	-
13C-PCB-189	3.46e+07	1.10 y	48:27	0.94	108		2.50				108
PCB-202	1.21e+07	0.95 y	44:50	1.09	54.3		2.50	-	-	*	-
13C-PCB-202	2.05e+07	0.94 y	44:48	0.77	78.2		2.50				78.2
13C-PCB-178	2.31e+07	1.08 y	42:20	0.76	89.6		2.50				89.6
13C-PCB-138	3.39e+07	1.27 y	41:34	-	310		2.50				

FAL ID: ST073018Z2 Filename: 30JUL18Z Sam:16 Acquired: 31-JUL-18 00:58:33 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 27JUL18Z GC Column: DB1MS Amount: 1.000

PCB-205	2.73e+07	0.93	y	50:06	1.04	55.4	2.50	-	-	*	-
13C-PCB-205	4.73e+07	0.90	y	50:06	1.32	97.2	2.50				97.2
PCB-208	2.26e+07	1.35	y	49:09	0.96	51.1	2.50	-	-	*	-
13C-PCB-208	4.59e+07	0.80	y	49:08	1.33	93.6	2.50				93.6
PCB-206	1.84e+07	1.38	y	51:19	0.97	49.2	2.50	-	-	*	-
13C-PCB-206	3.83e+07	0.80	y	51:18	0.94	111	2.50				111
PCB-209	2.29e+07	1.19	y	52:28	1.17	51.1	2.50	-	-	*	-
13C-PCB-209	3.82e+07	1.23	y	52:27	1.04	99.1	2.50				99.1
13C-PCB-194	3.69e+07	0.91	y	49:50	-	372	2.50				

Analyst: [illegible] Date: 7/31/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:30JUL18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

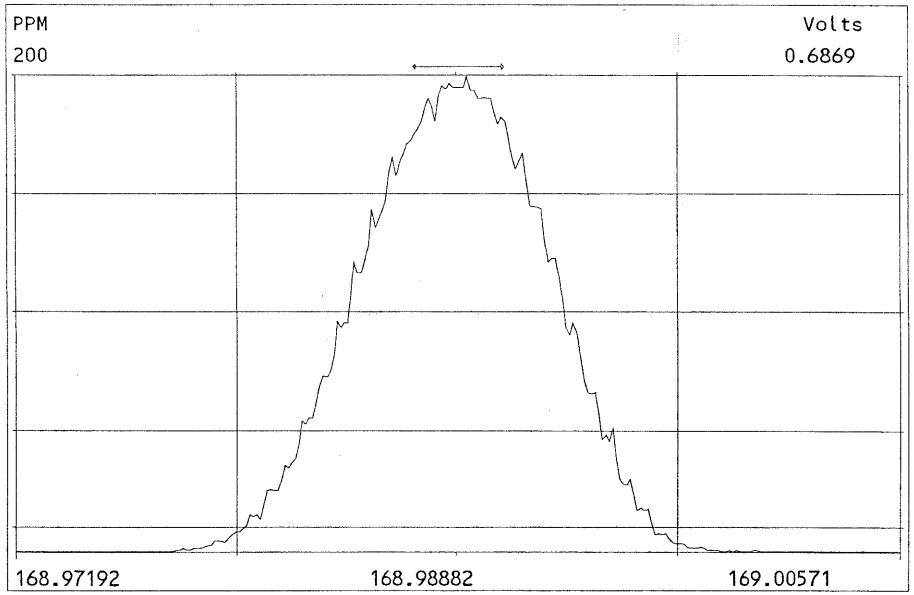
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
30JUL18Z	1	ST073018Z1	1668 CS3 170805A	30-JUL-18 10:19:43	ST073018Z1	ST073018Z2	BS
30JUL18Z	2	SS073018Z1	Daily 209 180725A	30-JUL-18 11:18:03	ST073018Z1	ST073018Z2	BS
30JUL18Z	3	04590-001-0001-OPR	OPR	30-JUL-18 12:16:25	ST073018Z1	ST073018Z2	BS
30JUL18Z	4	04590-001-0001-MB	Method Blank	30-JUL-18 13:14:46	ST073018Z1	ST073018Z2	BS
30JUL18Z	5	11719-001-0001-SA	LDW-Y1-IN-ENR-CA-CORE	30-JUL-18 14:13:33	ST073018Z1	ST073018Z2	BS
30JUL18Z	6	11719-002-0001-SA	LDW-Y1-IN-ENR-CB-CORE	30-JUL-18 15:12:19	ST073018Z1	ST073018Z2	BS
30JUL18Z	7	11719-003-0001-SA	LDW-Y1-IN-ENR-CC-CORE	30-JUL-18 16:11:06	ST073018Z1	ST073018Z2	BS
30JUL18Z	8	11719-004-0001-SA	LDW-Y1-IN-ENR+AC-CA-CORE	30-JUL-18 17:09:53	ST073018Z1	ST073018Z2	BS
30JUL18Z	9	11719-005-0001-SA	LDW-Y1-IN-ENR+AC-CB-CORE	30-JUL-18 18:08:40	ST073018Z1	ST073018Z2	BS
30JUL18Z	10	11719-006-0001-SA	LDW-Y1-IN-ENR+AC-CC-CORE	30-JUL-18 19:07:26	ST073018Z1	ST073018Z2	BS
30JUL18Z	11	11740-001-0001-SA	Tampax Active Sample 1 81362¶	30-JUL-18 20:05:51	ST073018Z1	ST073018Z2	BS
30JUL18Z	12	11740-002-0001-SA	Tampax Active Sample 2 81172¶	30-JUL-18 21:04:37	ST073018Z1	ST073018Z2	BS
30JUL18Z	13	11740-003-0001-SA	Tampax Active Sample 1 81362¶	30-JUL-18 22:02:58	ST073018Z1	ST073018Z2	BS
30JUL18Z	14	11740-004-0001-SA	Tampax Active Sample 2 81172¶	30-JUL-18 23:01:22	ST073018Z1	ST073018Z2	BS
30JUL18Z	15	SB073018Z1	Solvent Blank	30-JUL-18 23:59:44	ST073018Z1	ST073018Z2	BS
30JUL18Z	16	ST073018Z2	1668 CS3 170805A	31-JUL-18 00:58:33	ST073018Z1	ST073018Z2	BS

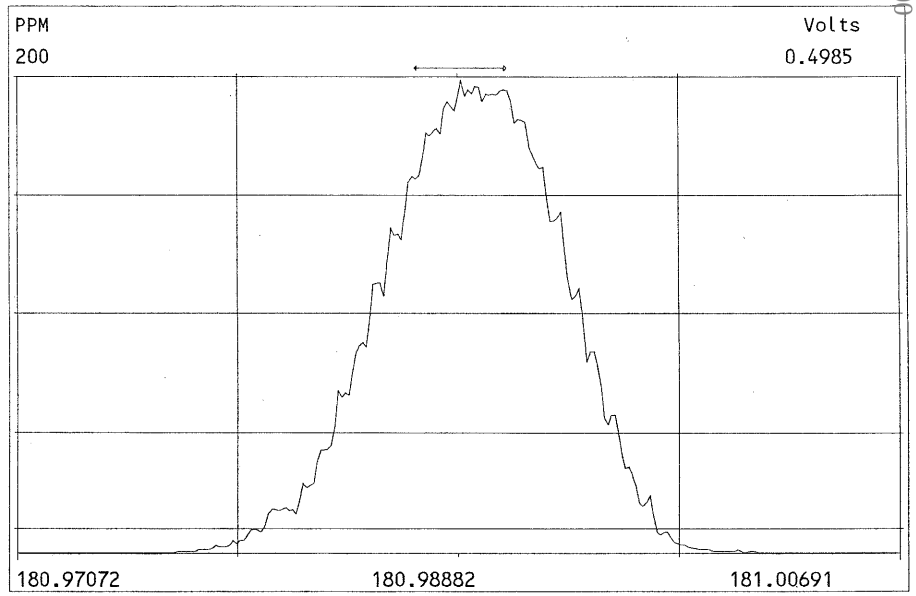
7/31/18

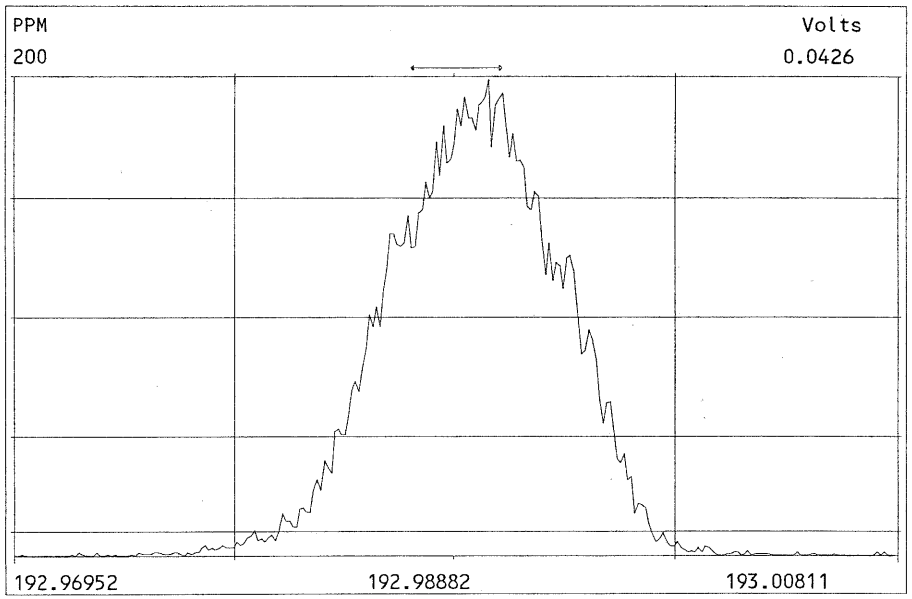
Data Backed Up:_____

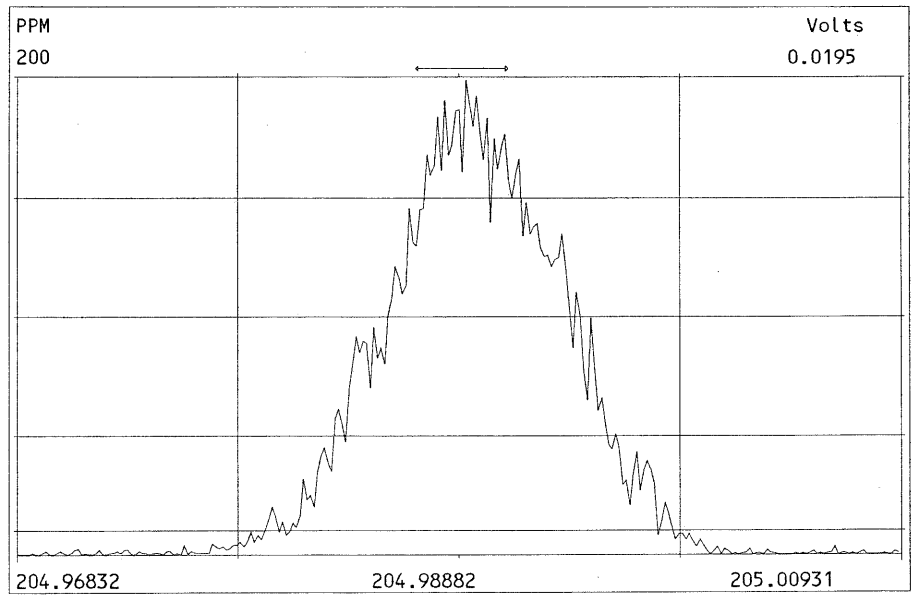
Date:_____

Peak Locate Examination:30-JUL-2018:10:17 File:30JUL18Z
Experiment:1668PCB Function:1 Reference:PFK

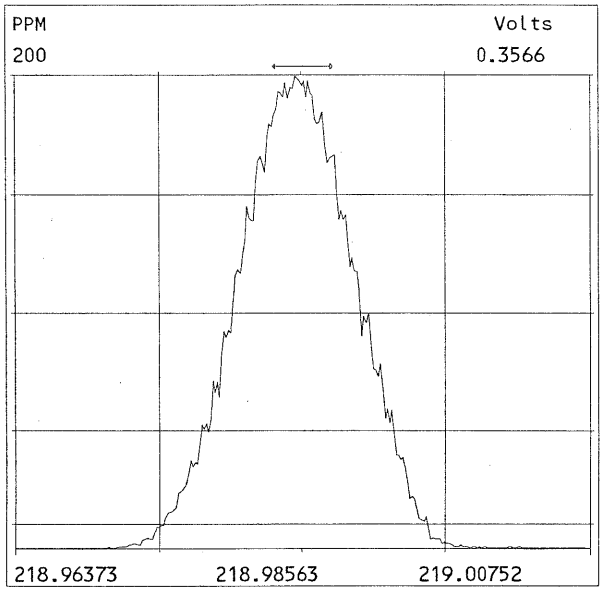


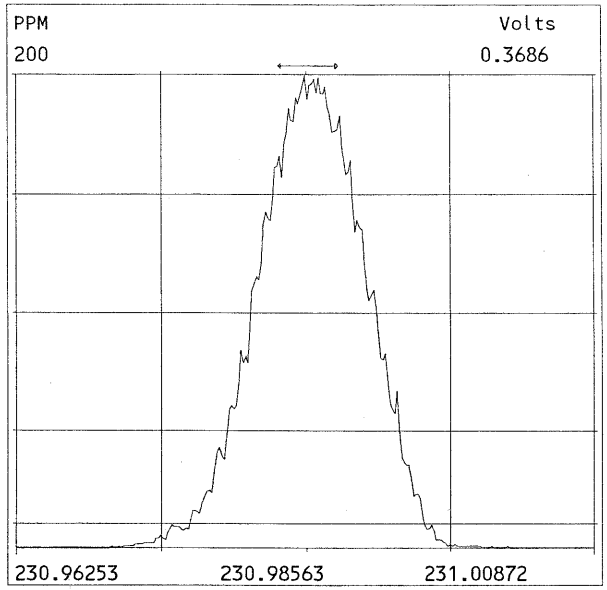


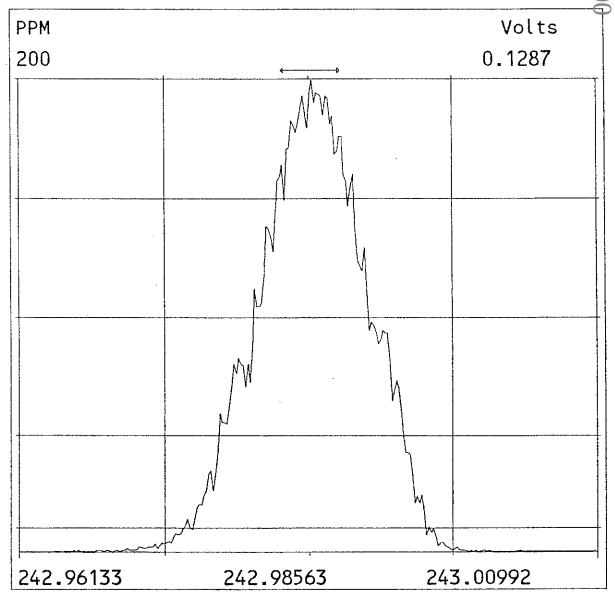


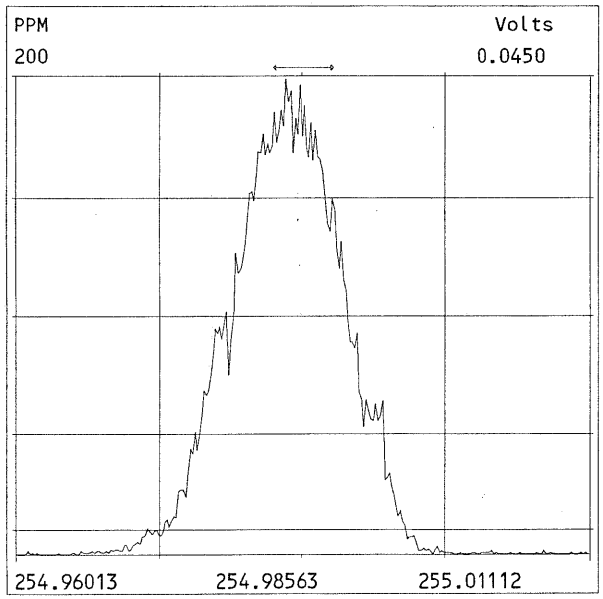


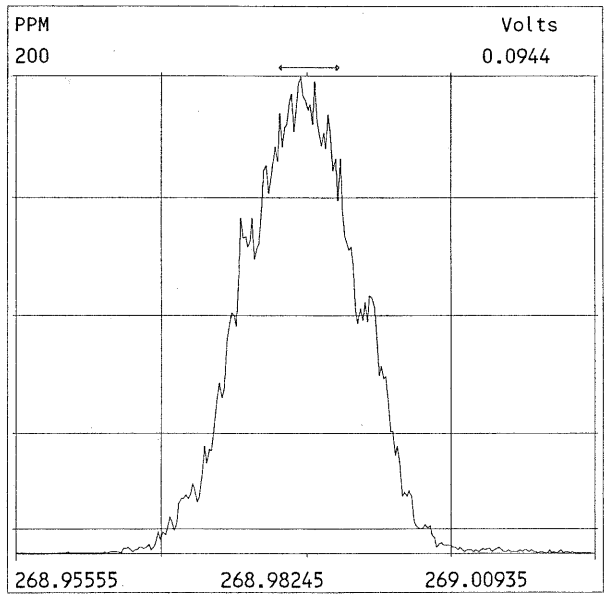
Peak Locate Examination:30-JUL-2018:10:17 File:30JUL18Z
Experiment:1668PCB Function:2 Reference:PFK

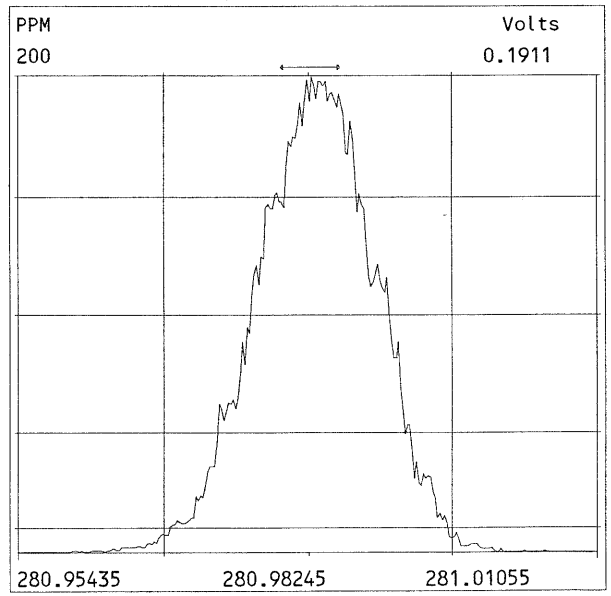




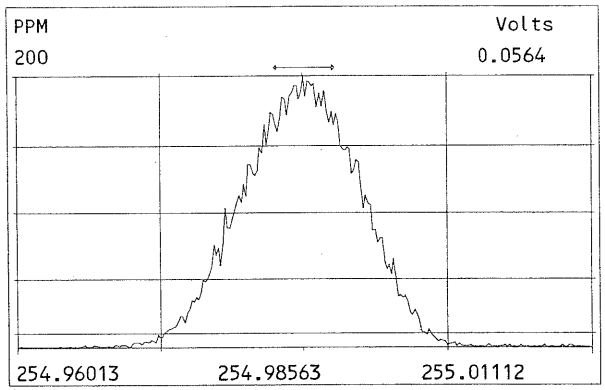


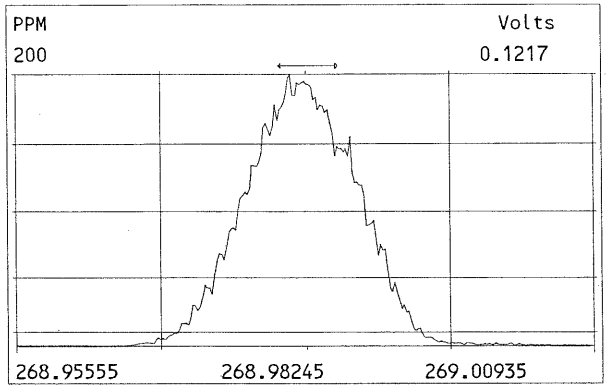


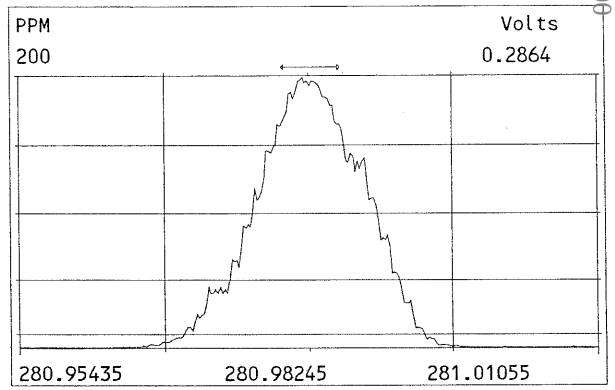


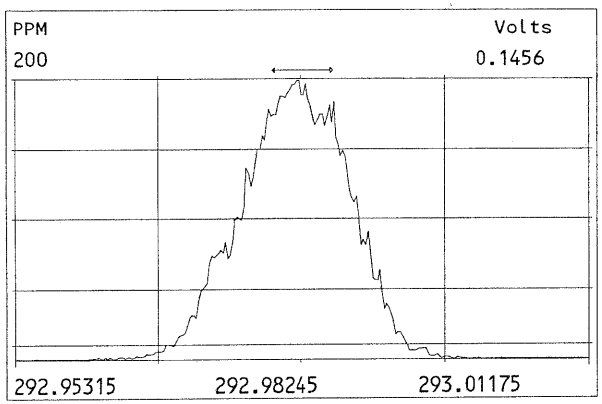


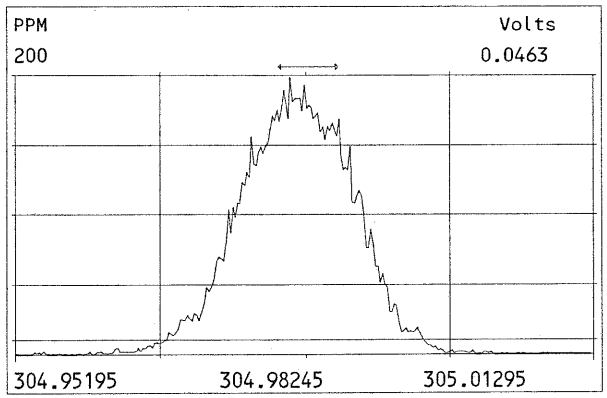
Peak Locate Examination:30-JUL-2018:10:18 File:30JUL18Z
Experiment:1668PCB Function:3 Reference:PFK

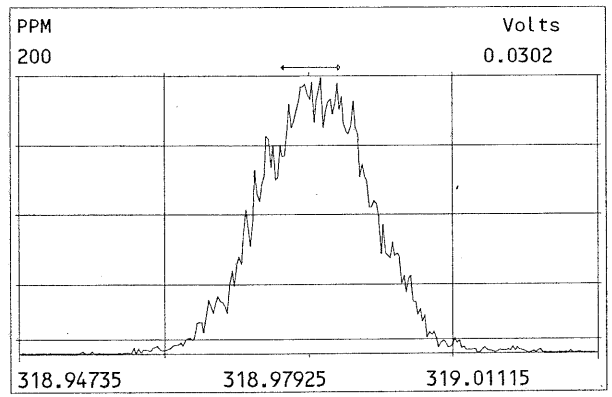


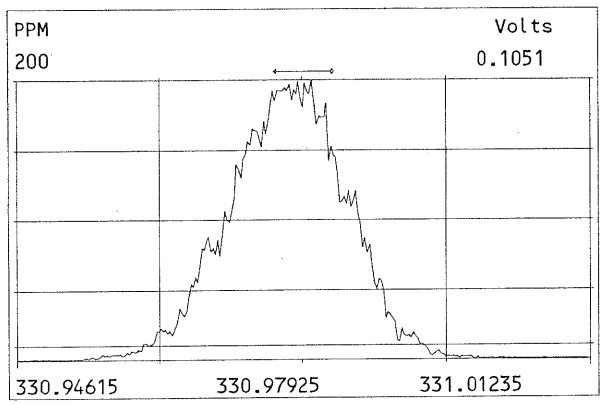


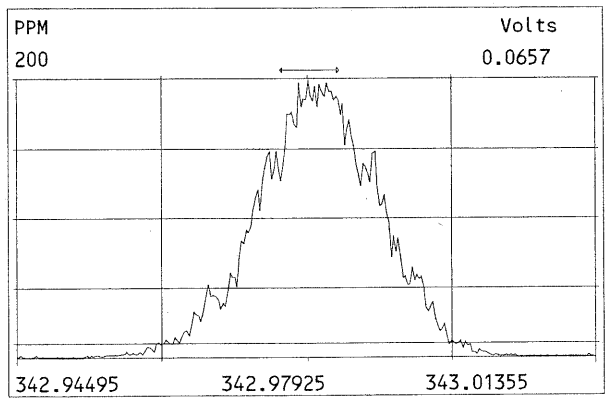




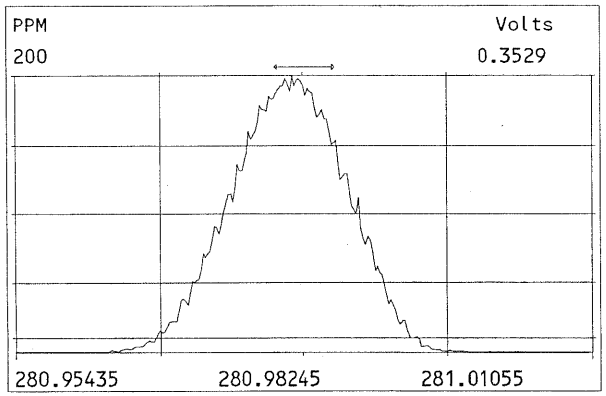


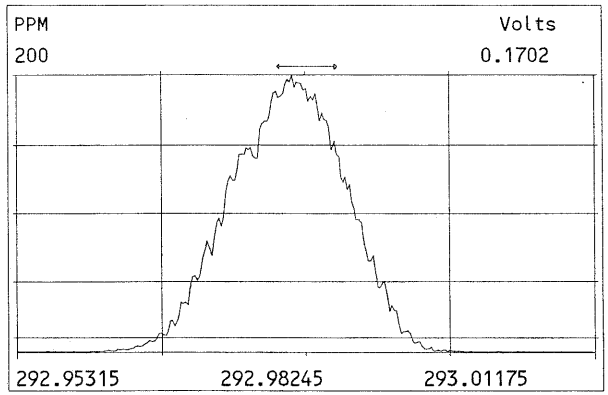


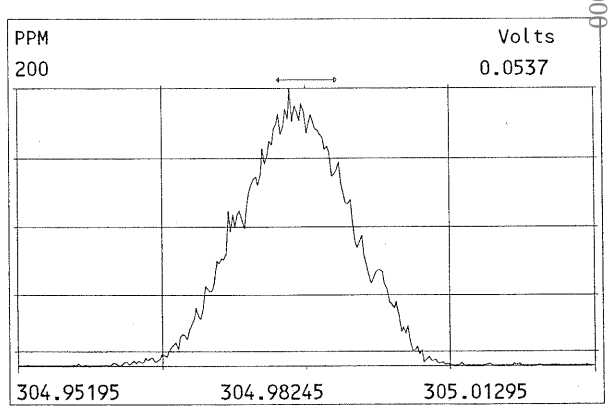


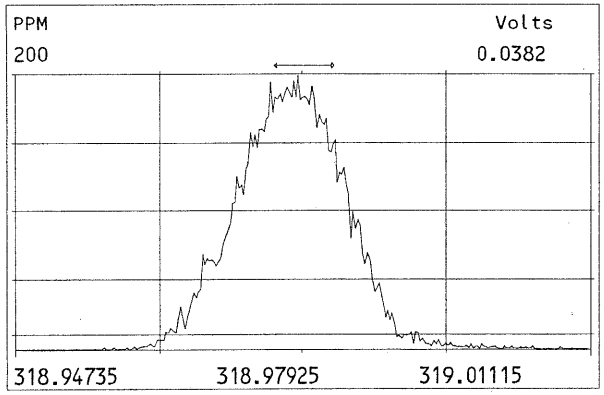


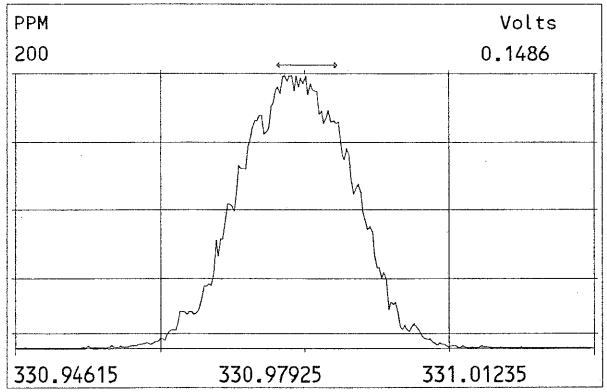
Peak Locate Examination:30-JUL-2018:10:18 File:30JUL18Z
Experiment:1668PCB Function:4 Reference:PFK

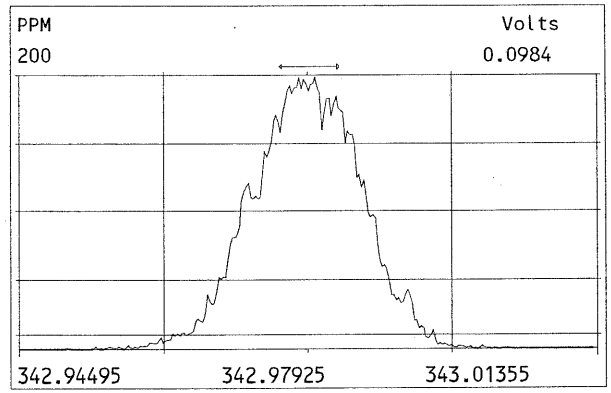


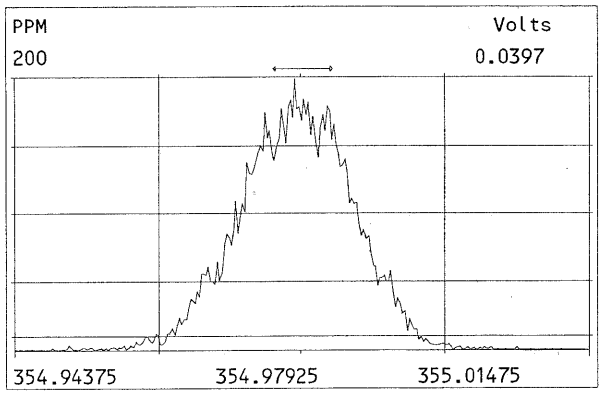


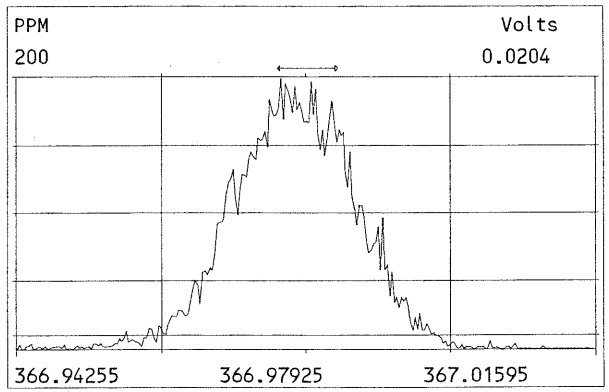


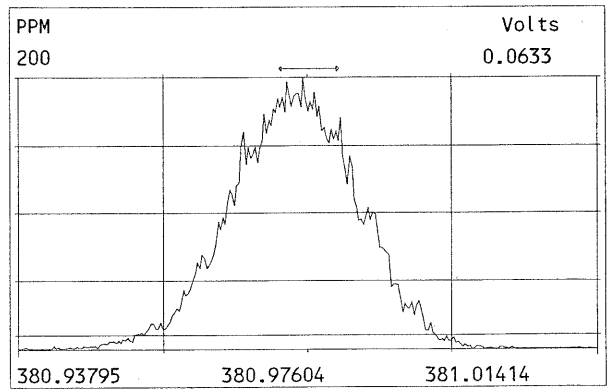




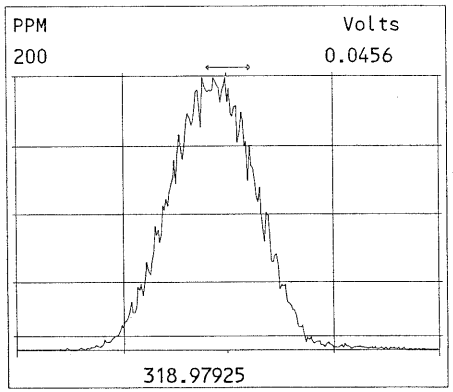


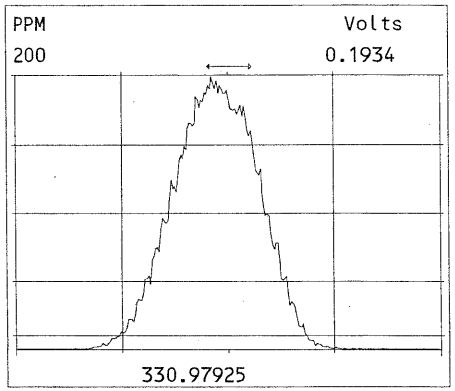


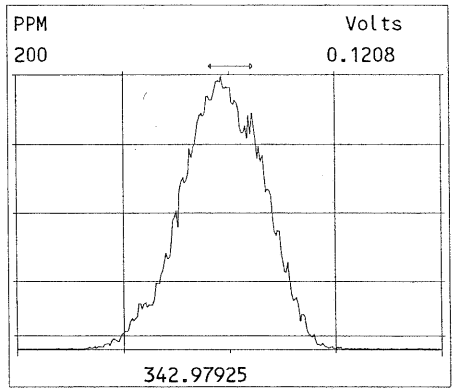


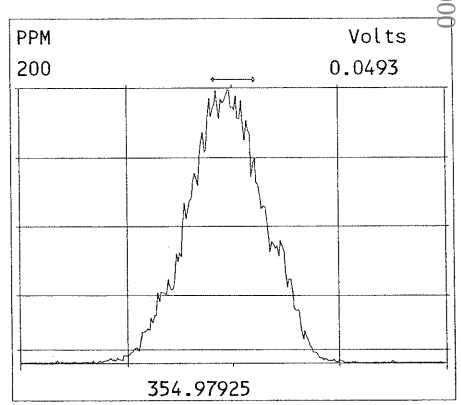


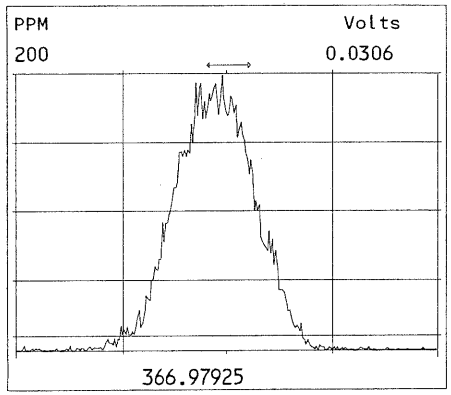
Peak Locate Examination:30-JUL-2018:10:18 File:30JUL18Z
Experiment:1668PCB Function:5 Reference:PFK

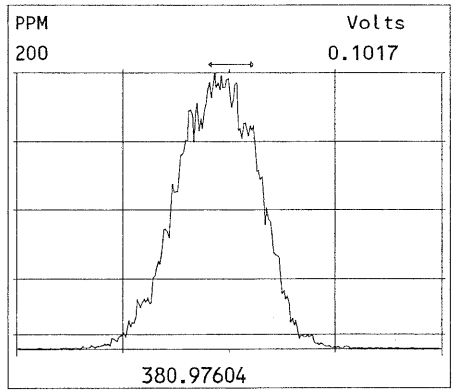


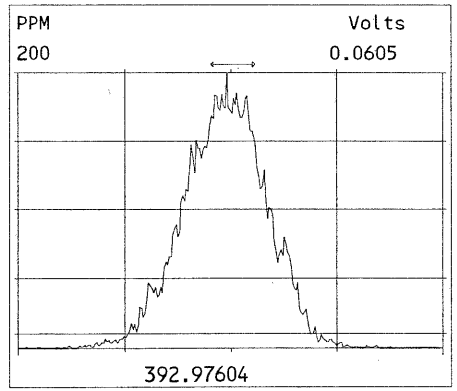


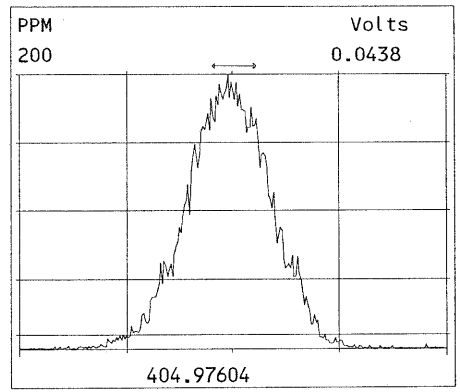


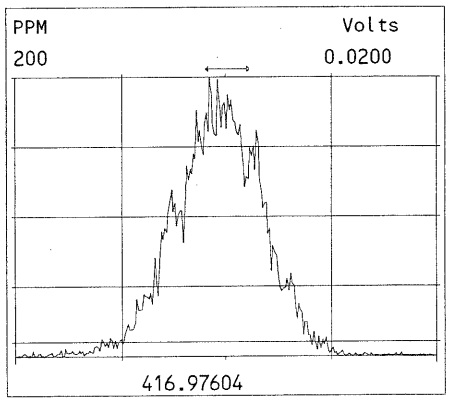


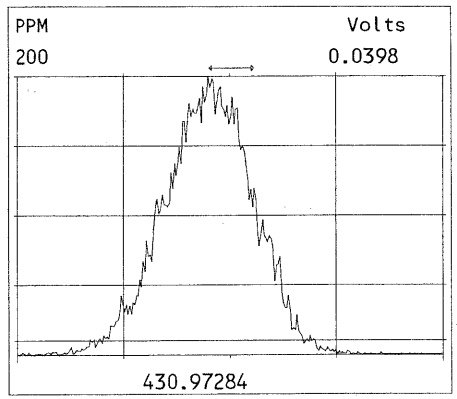


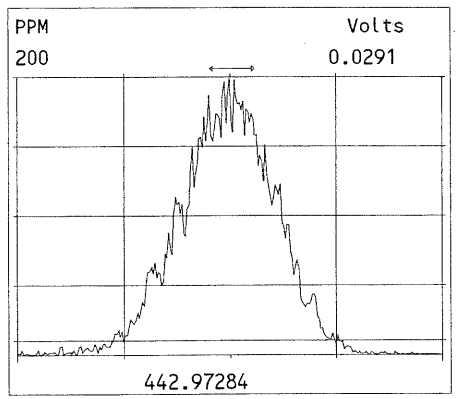




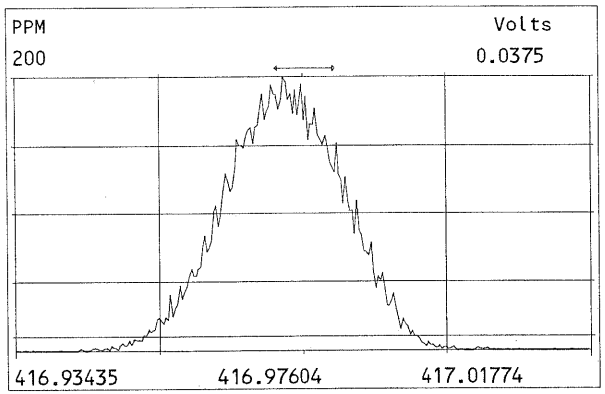


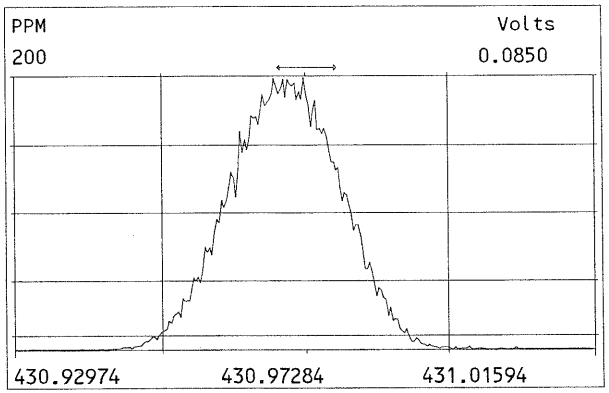


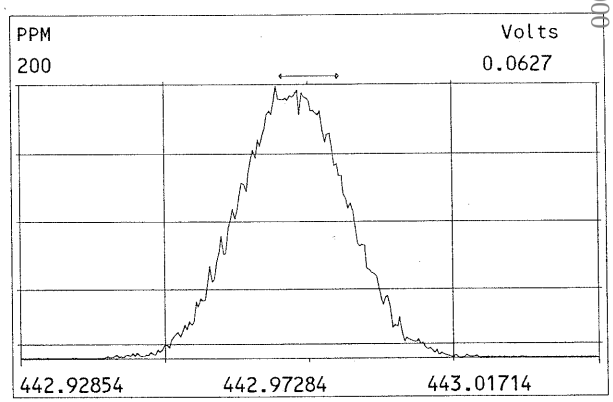


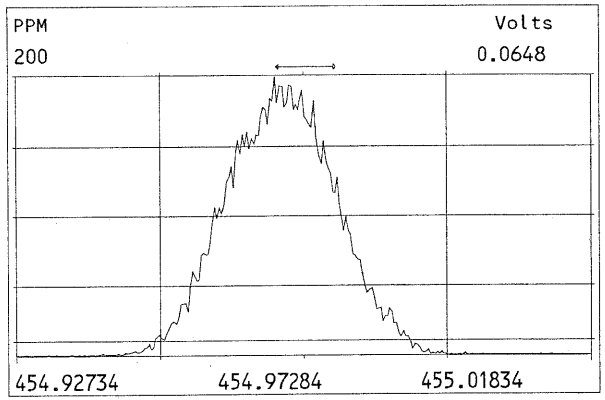


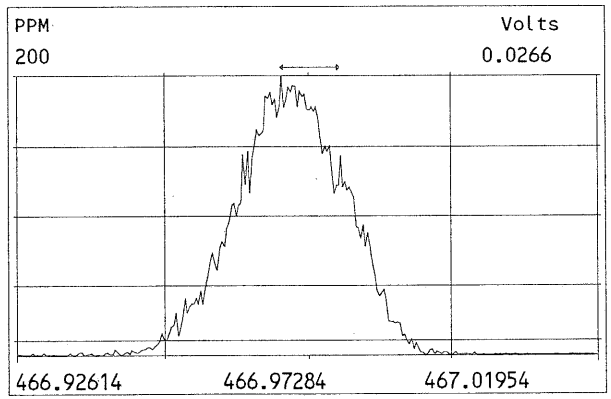
Peak Locate Examination:30-JUL-2018:10:19 File:30JUL18Z
Experiment:1668PCB Function:6 Reference:PFK

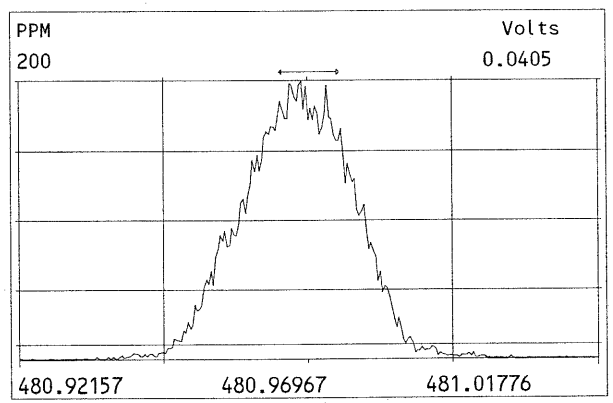


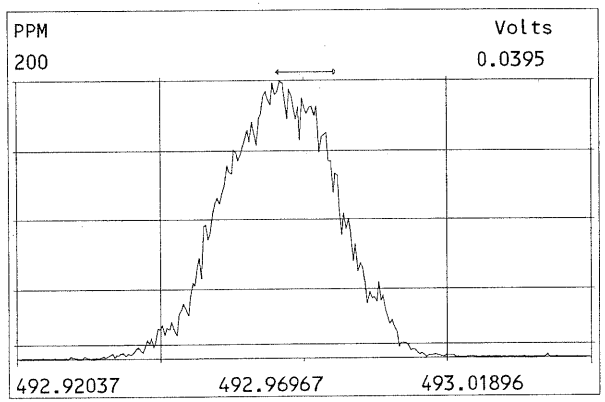


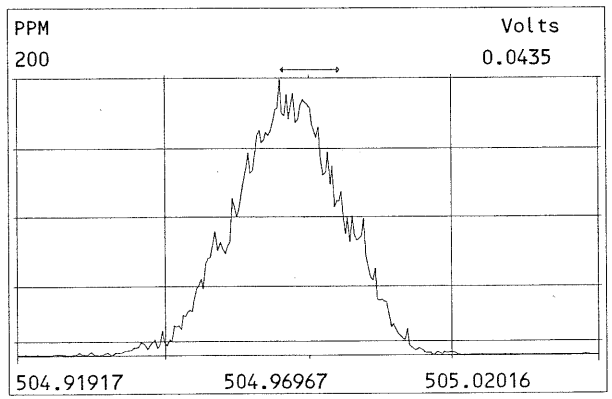


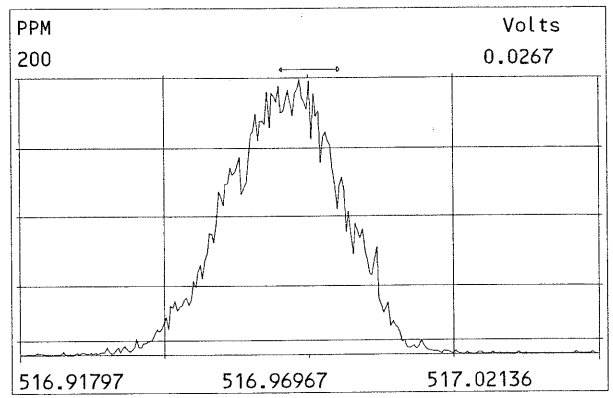




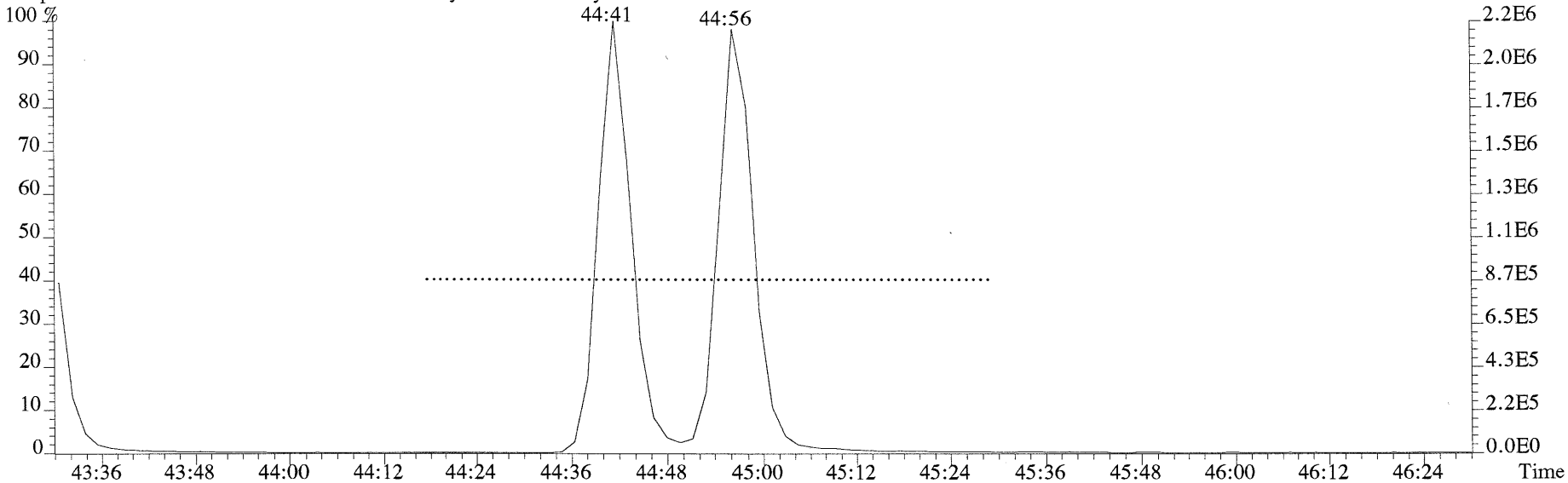








File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
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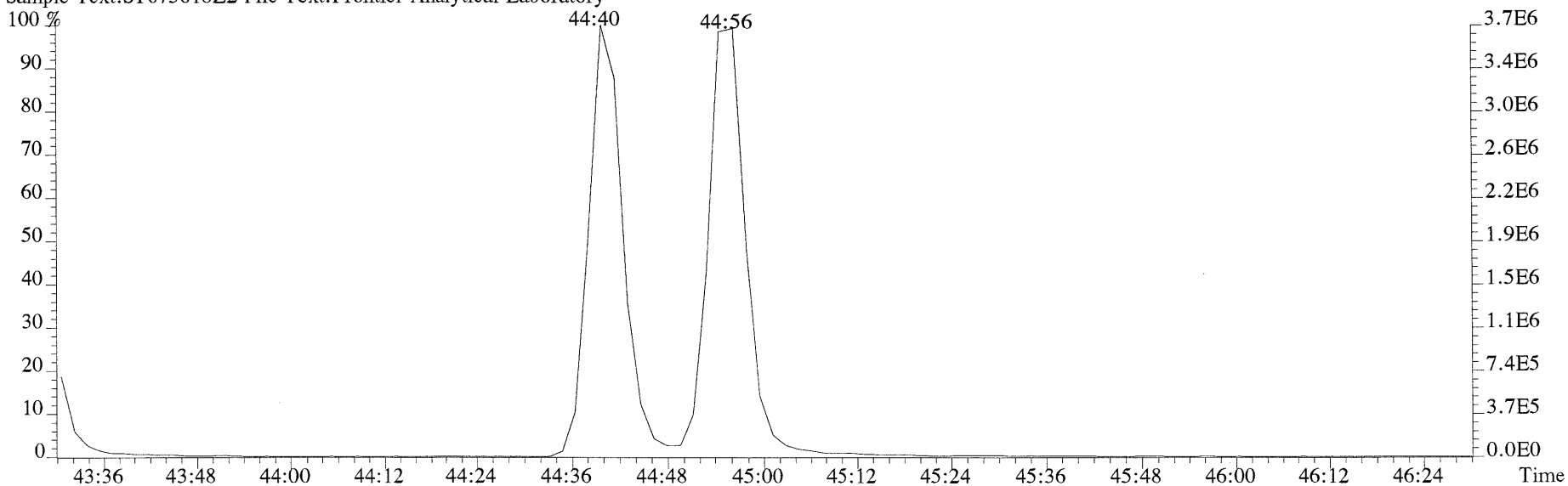
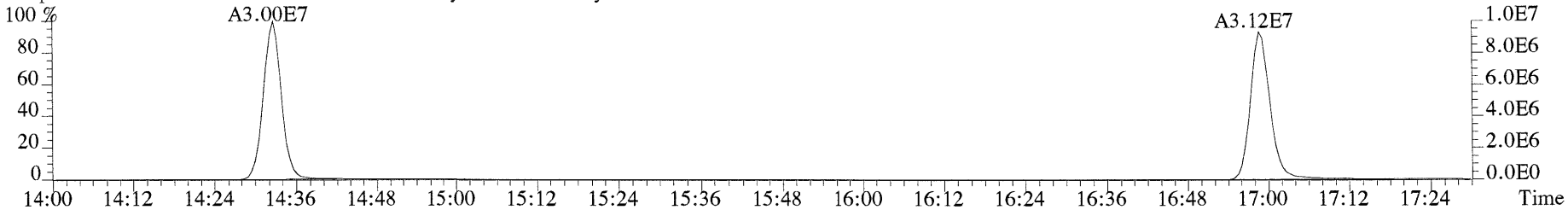
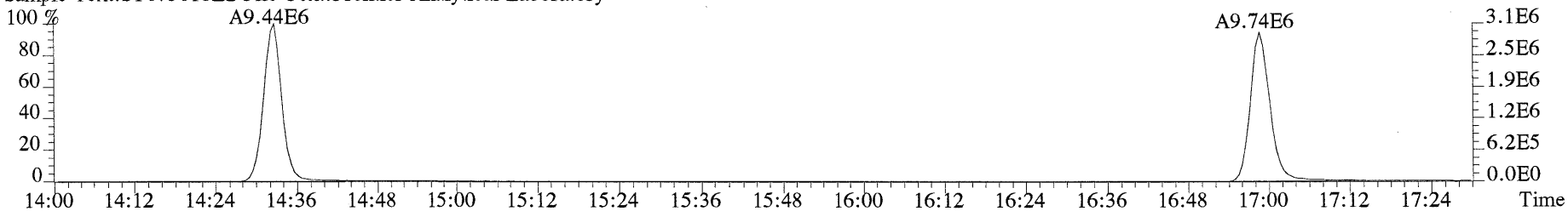


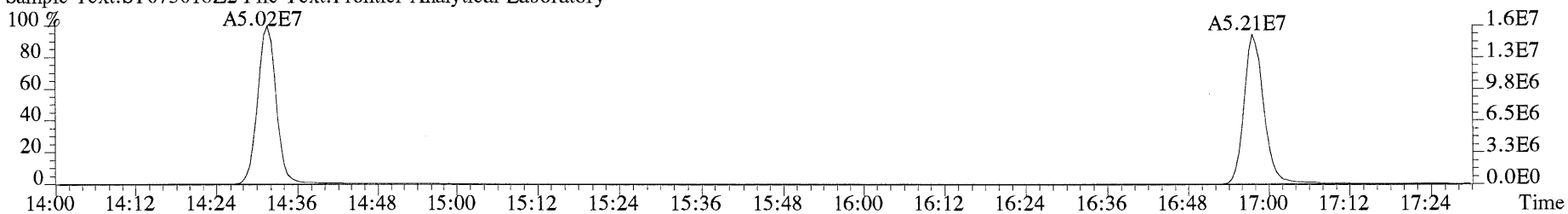
File:30JUL18Z #1-784 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



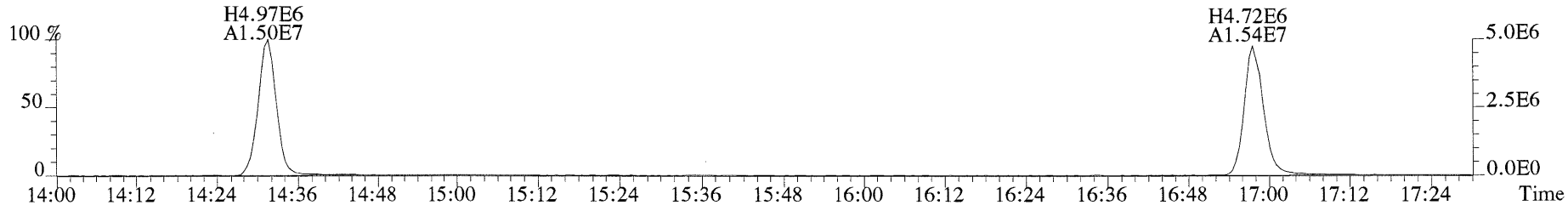
File:30JUL18Z #1-784 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



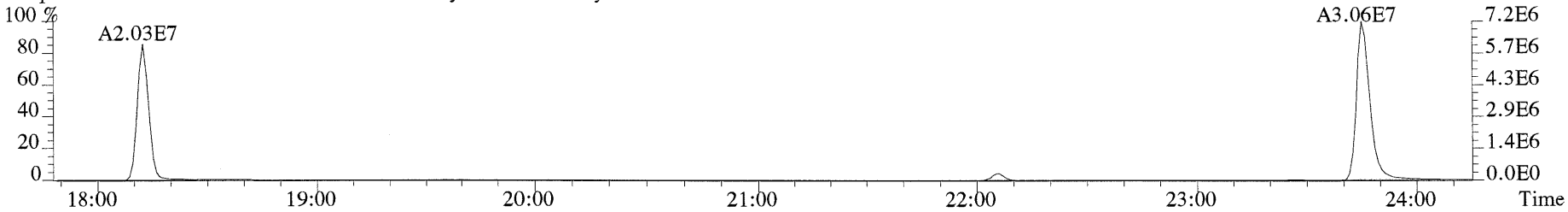
File:30JUL18Z #1-784 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



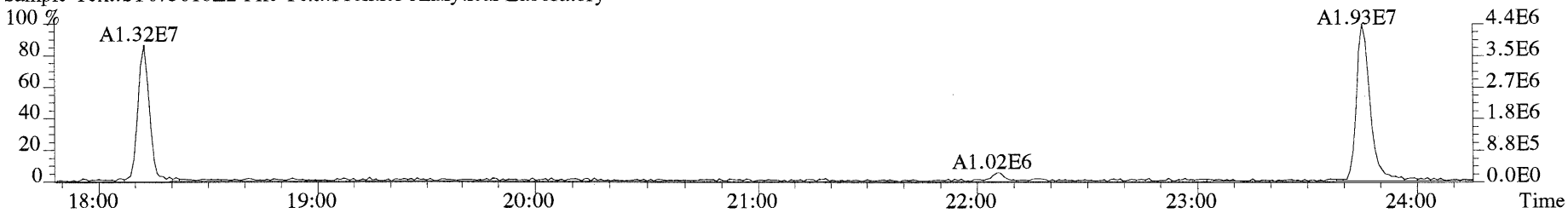
File:30JUL18Z #1-784 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



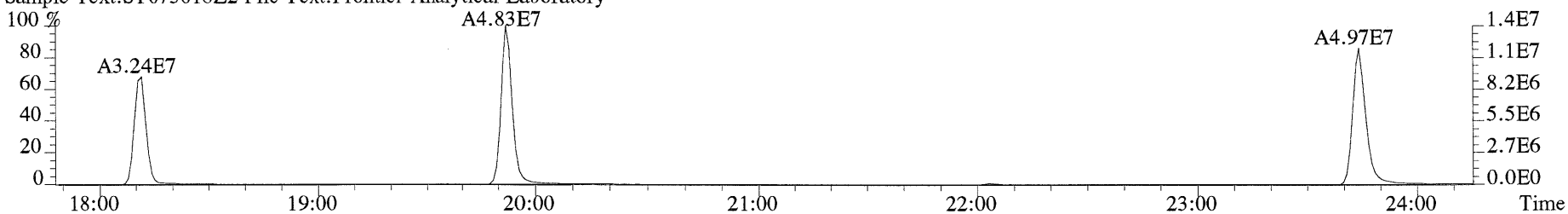
File:30JUL18Z #1-520 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



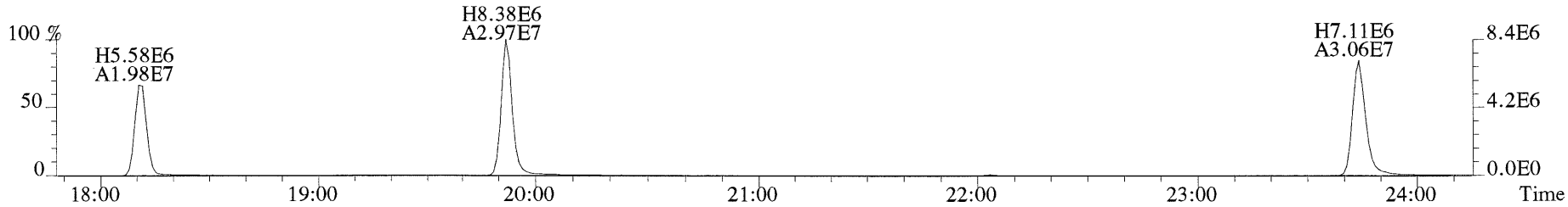
File:30JUL18Z #1-520 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



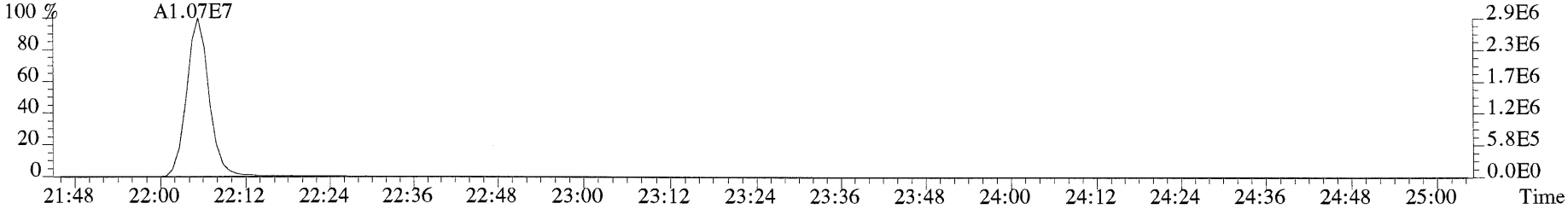
File:30JUL18Z #1-520 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



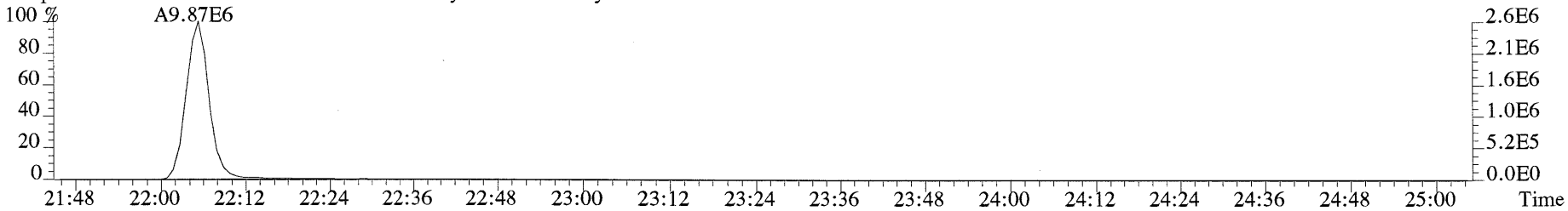
File:30JUL18Z #1-520 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



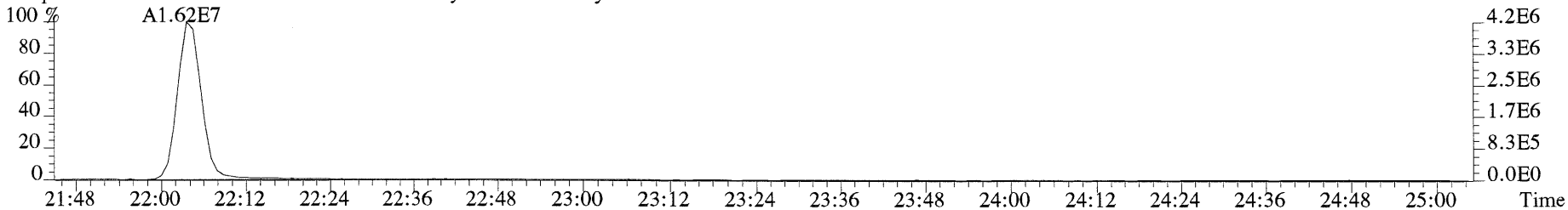
File:30JUL18Z #1-520 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



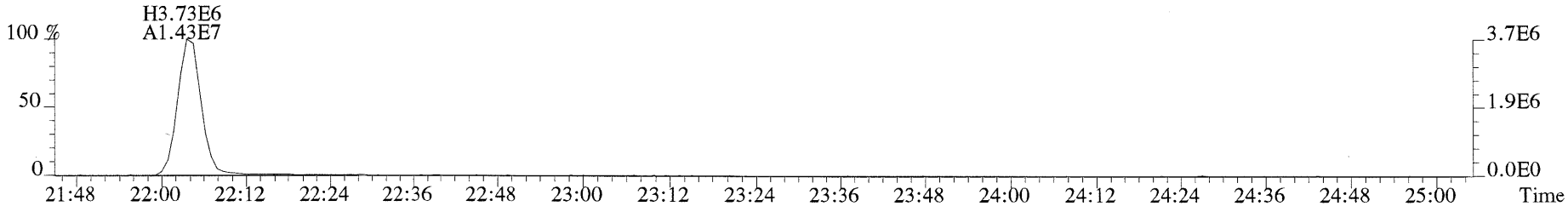
File:30JUL18Z #1-520 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



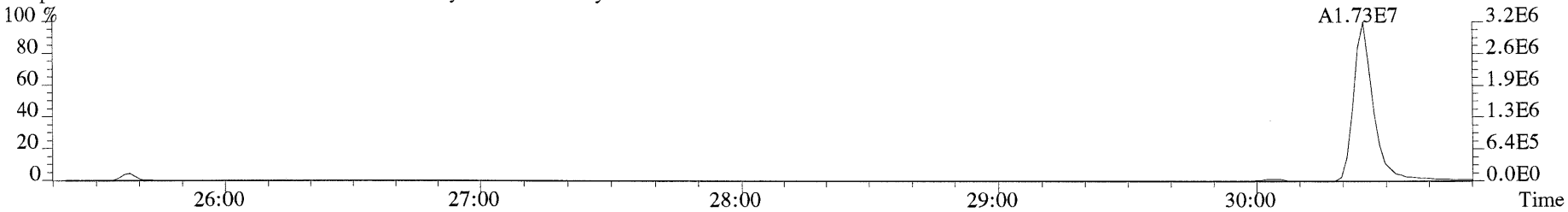
File:30JUL18Z #1-520 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



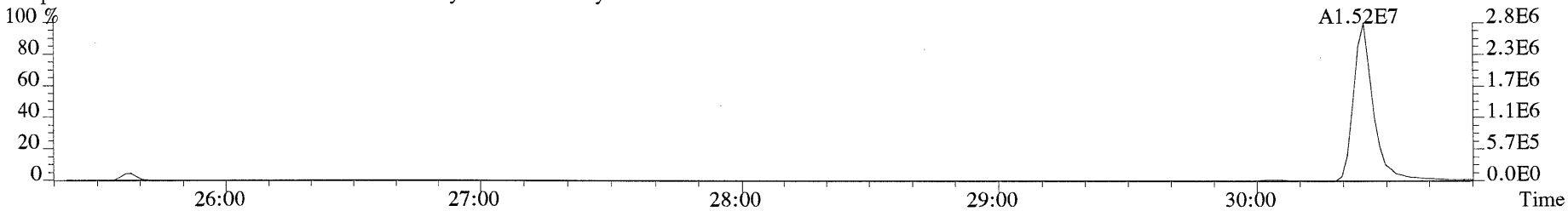
File:30JUL18Z #1-520 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



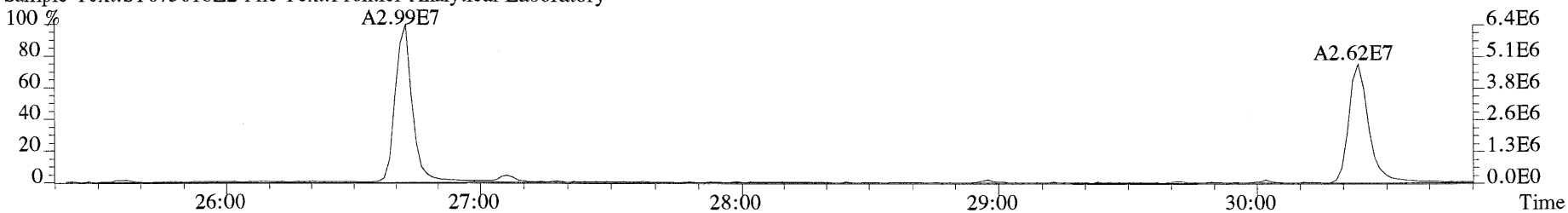
File:30JUL18Z #1-401 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



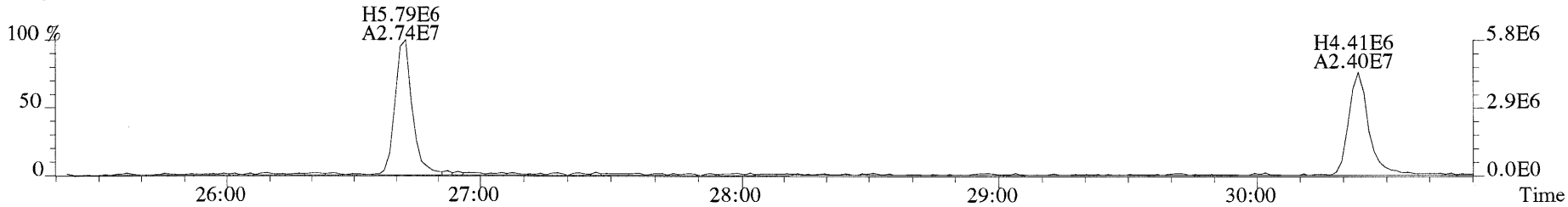
File:30JUL18Z #1-401 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



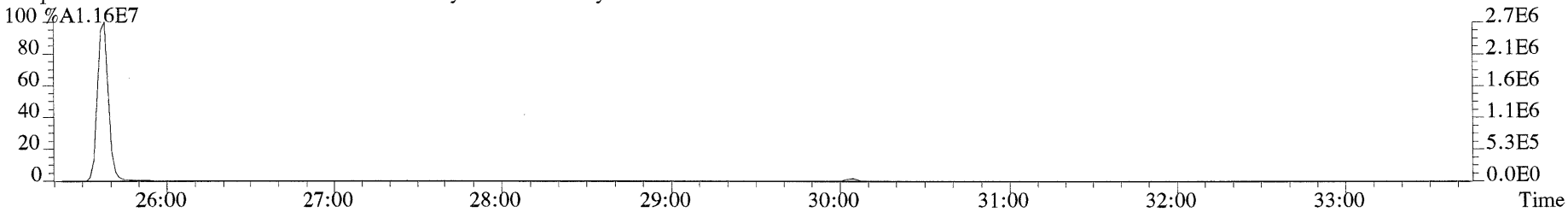
File:30JUL18Z #1-401 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



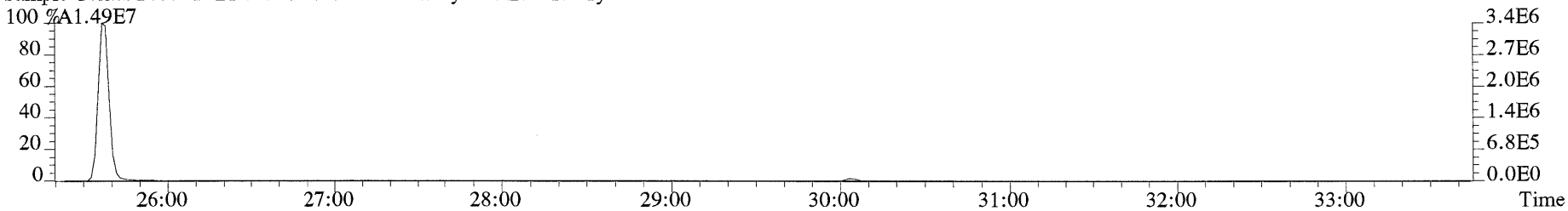
File:30JUL18Z #1-401 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



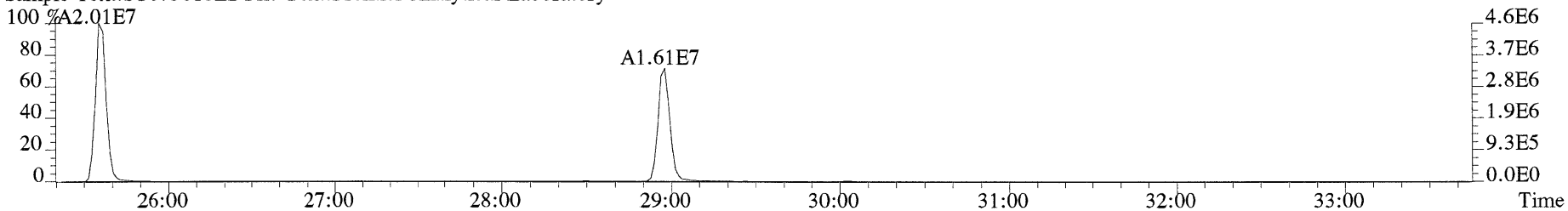
File:30JUL18Z #1-401 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



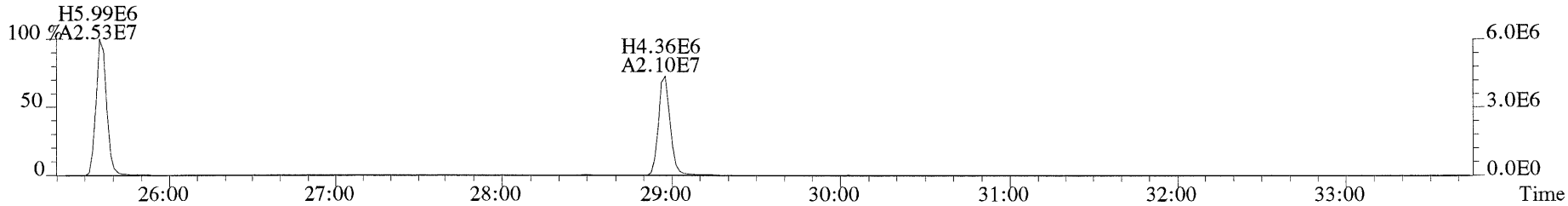
File:30JUL18Z #1-401 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



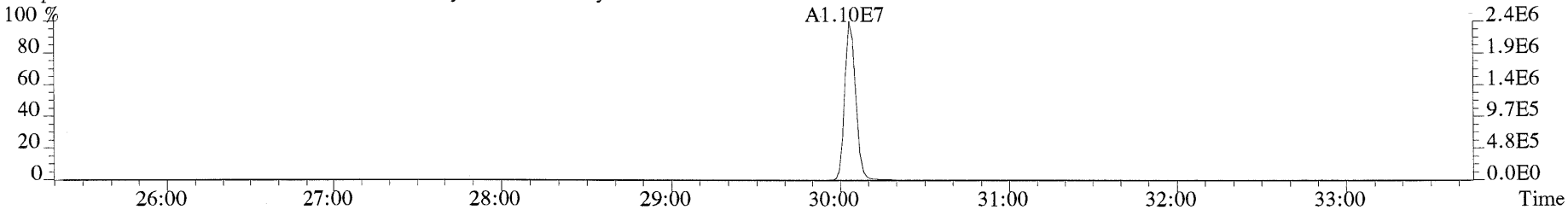
File:30JUL18Z #1-401 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



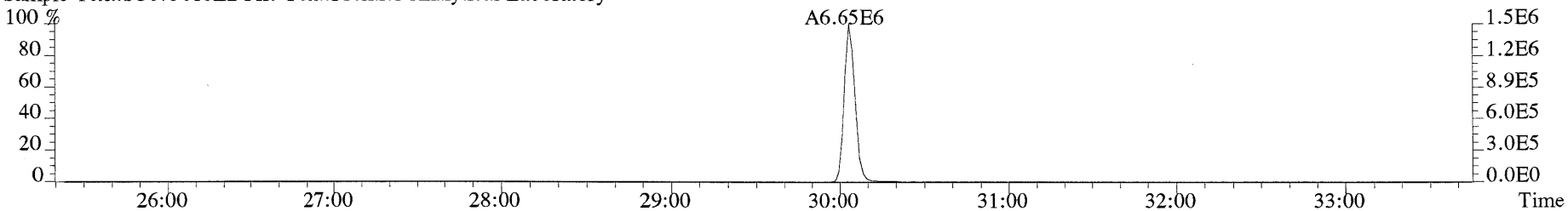
File:30JUL18Z #1-401 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



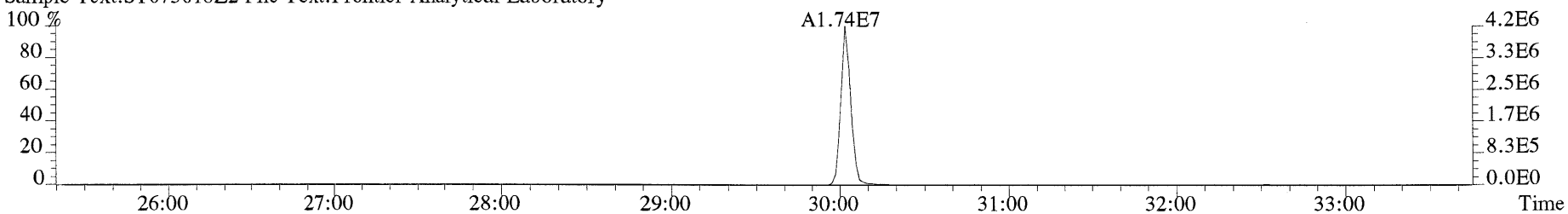
File:30JUL18Z #1-401 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



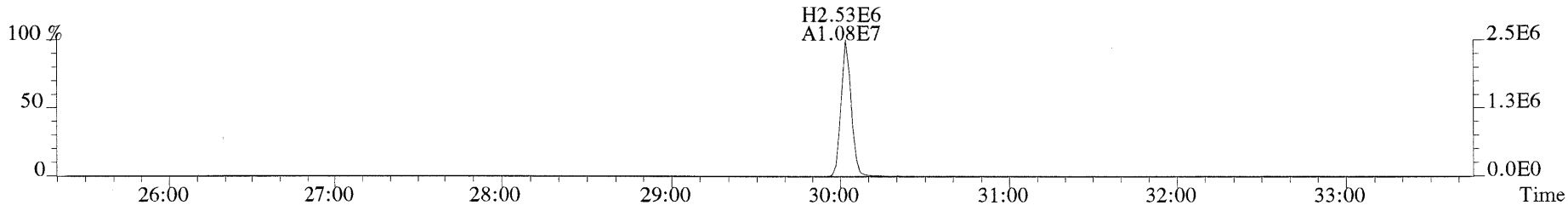
File:30JUL18Z #1-401 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



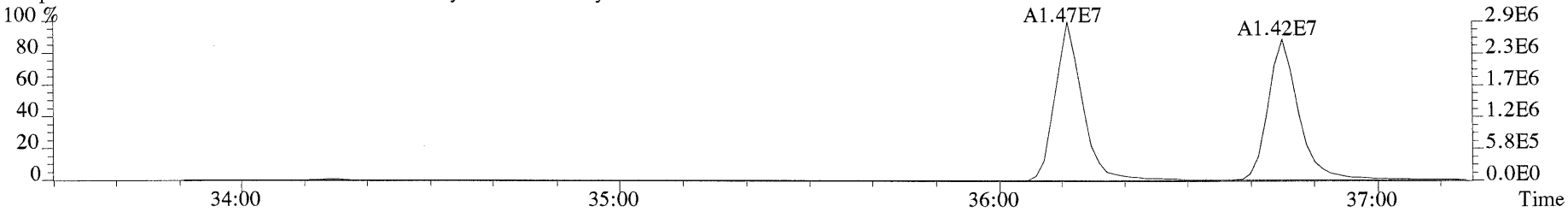
File:30JUL18Z #1-401 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



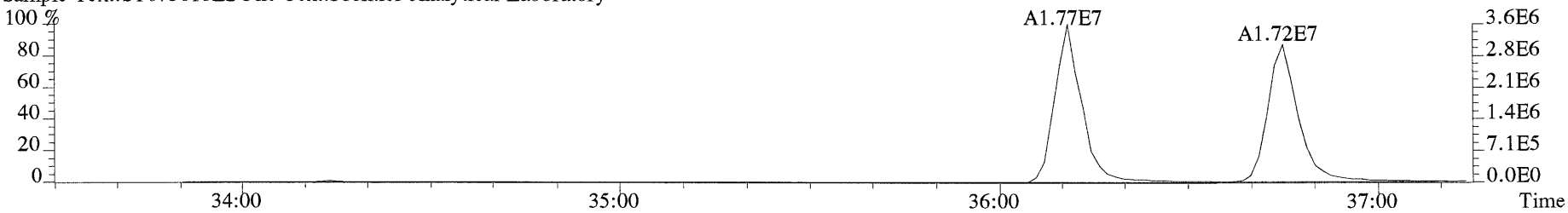
File:30JUL18Z #1-401 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



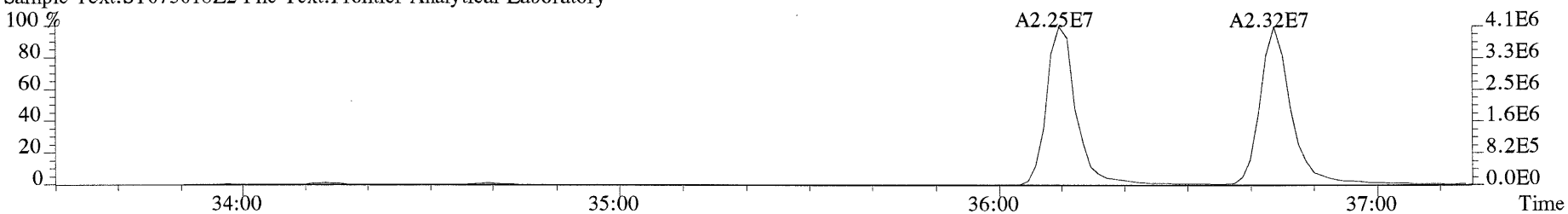
File:30JUL18Z #1-183 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



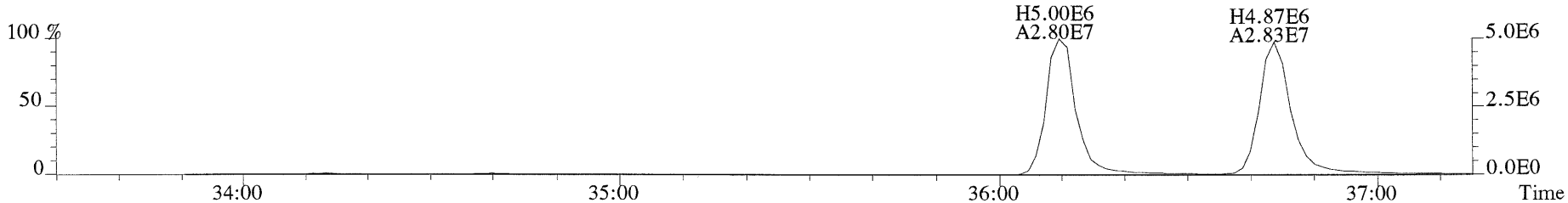
File:30JUL18Z #1-183 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



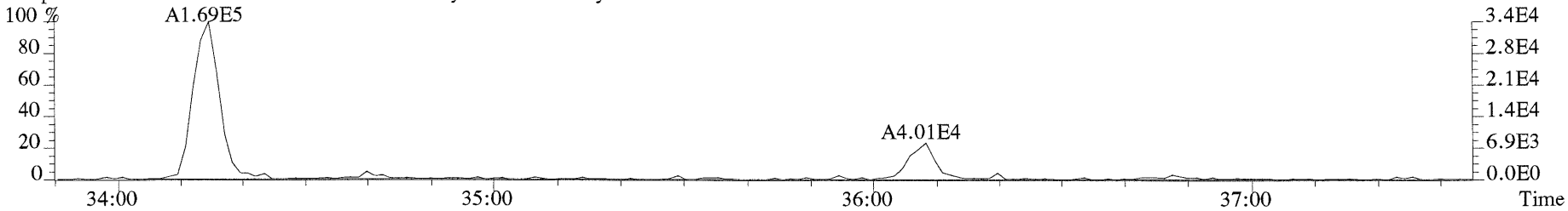
File:30JUL18Z #1-183 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



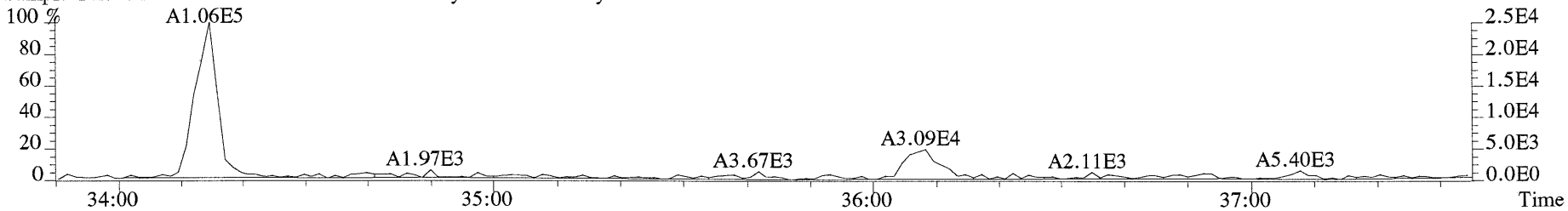
File:30JUL18Z #1-183 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



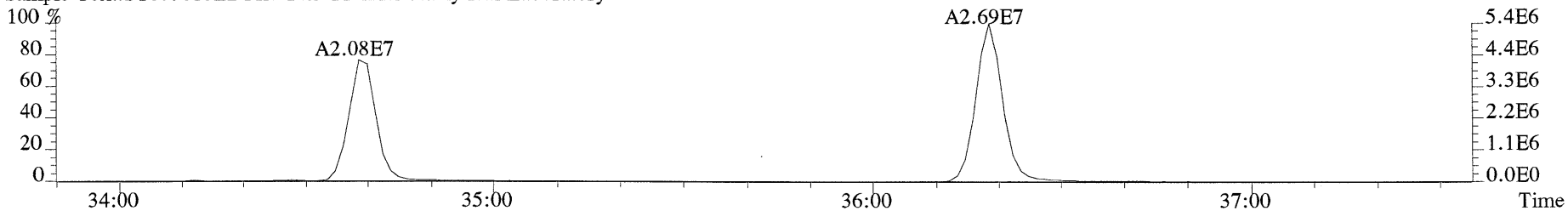
File:30JUL18Z #1-183 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



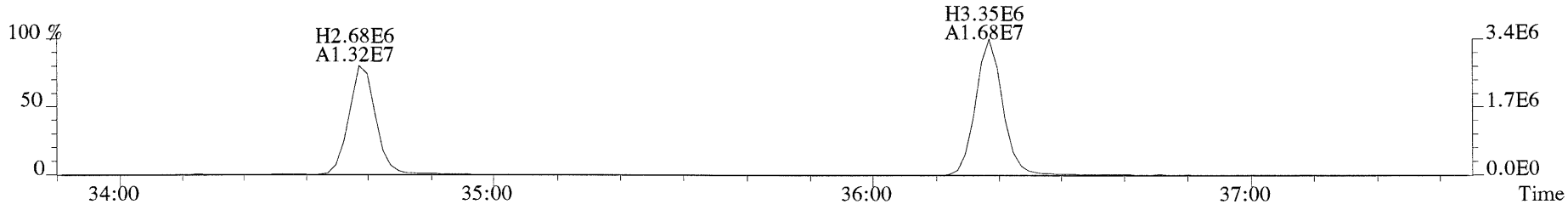
File:30JUL18Z #1-183 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



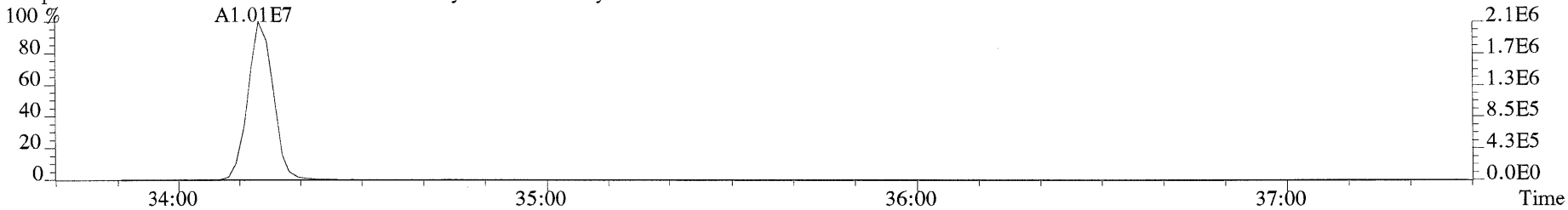
File:30JUL18Z #1-183 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



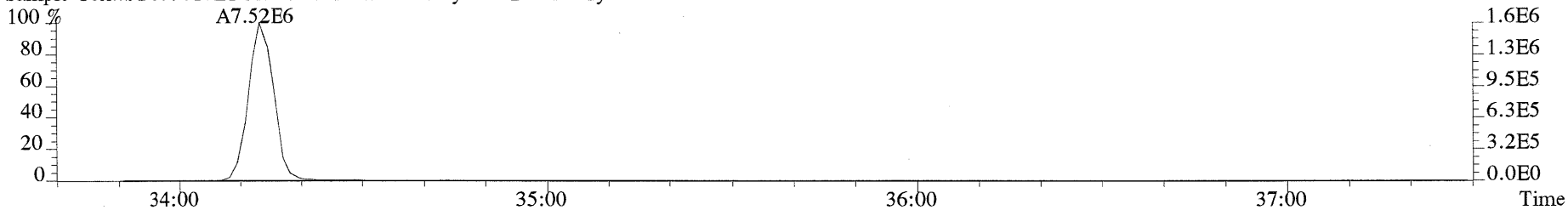
File:30JUL18Z #1-183 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



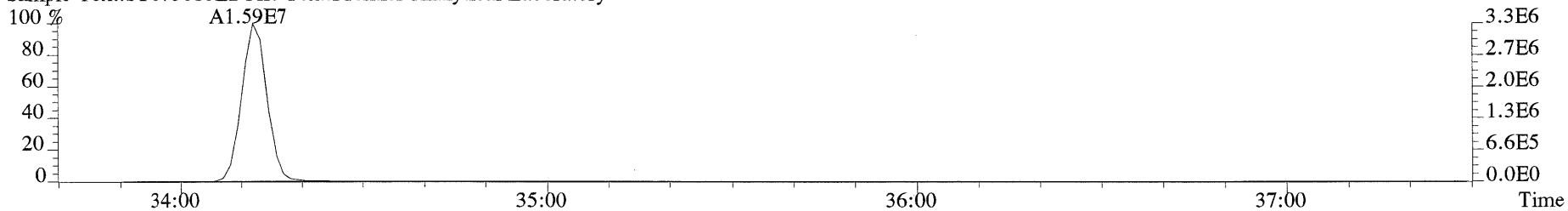
File:30JUL18Z #1-183 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



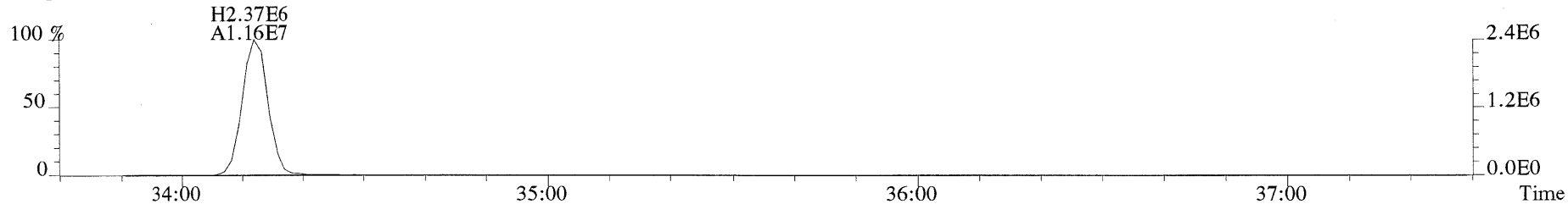
File:30JUL18Z #1-183 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



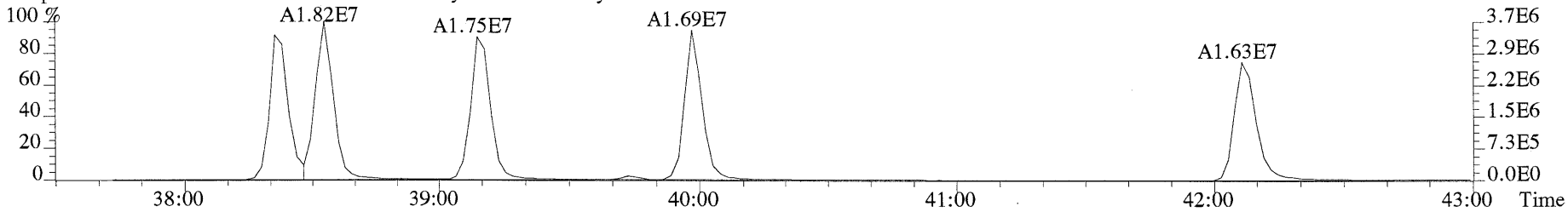
File:30JUL18Z #1-183 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



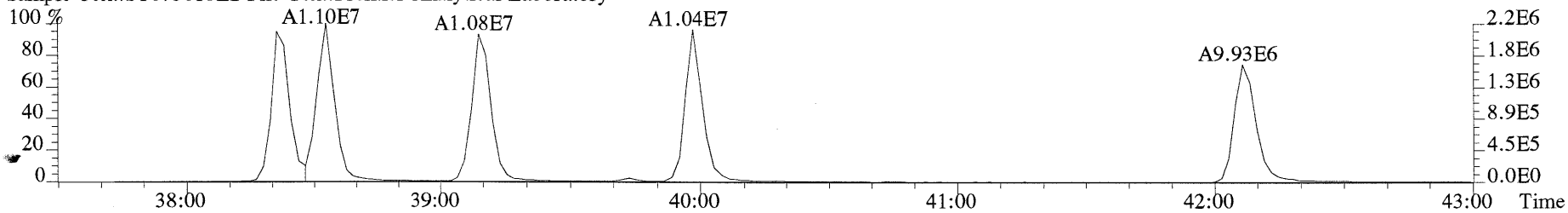
File:30JUL18Z #1-183 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



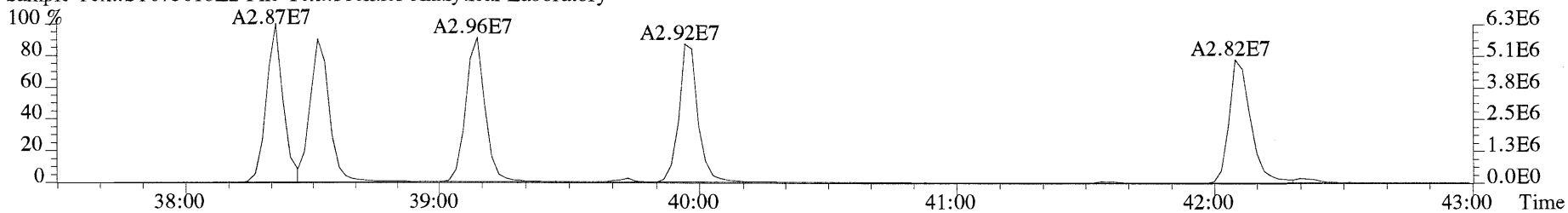
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



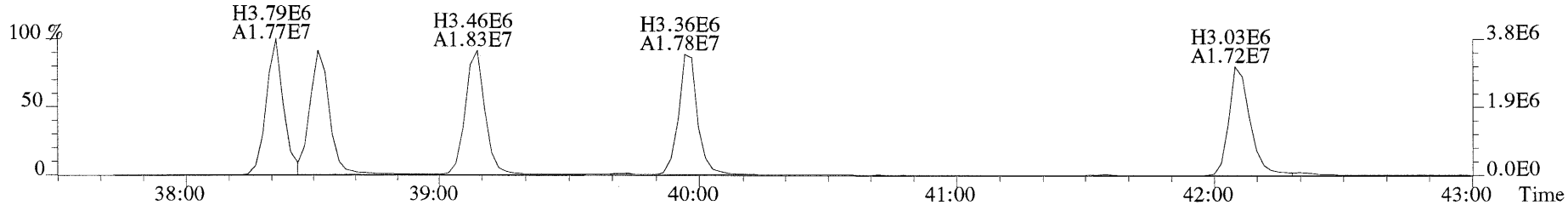
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



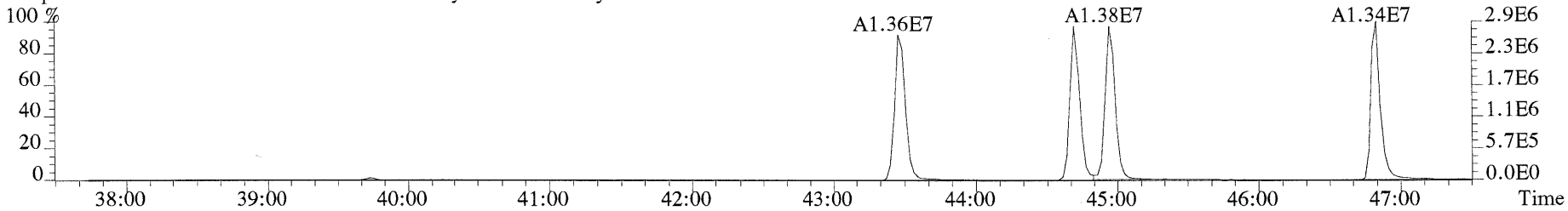
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



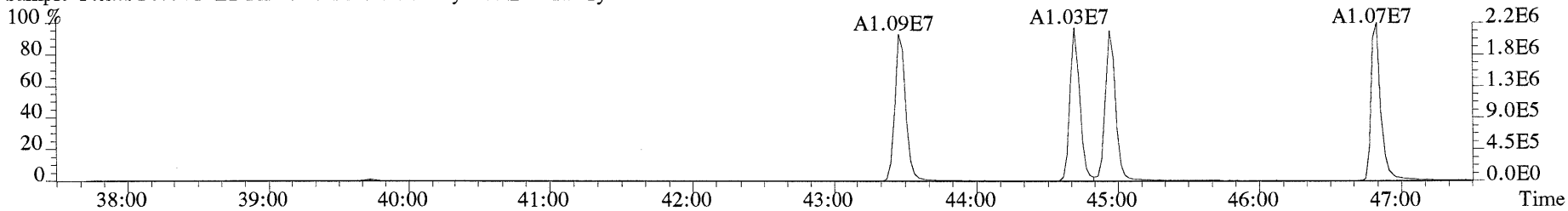
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



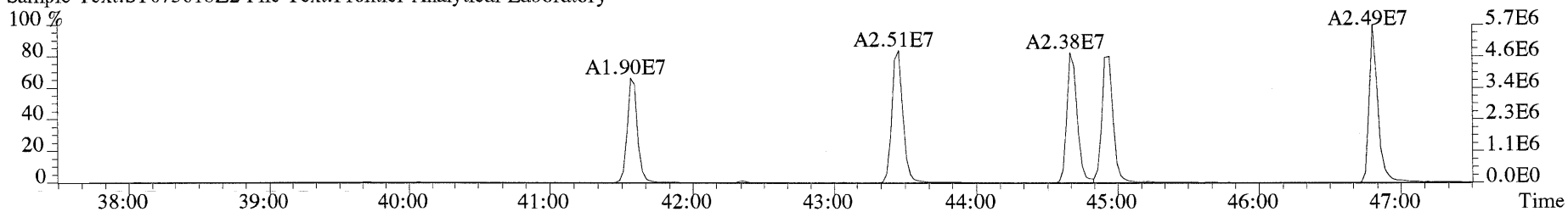
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



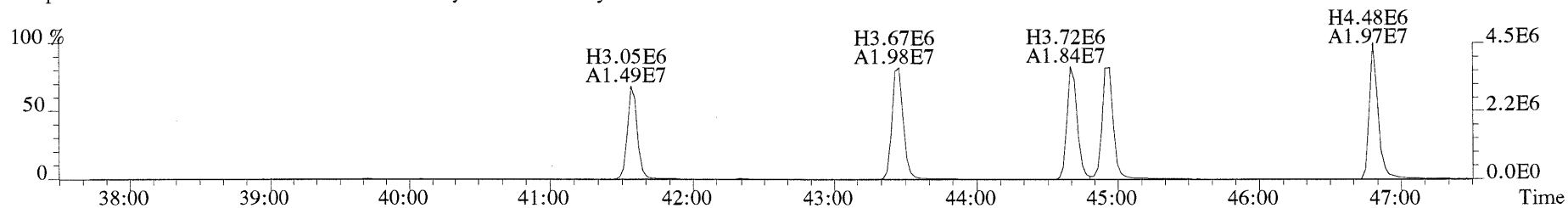
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



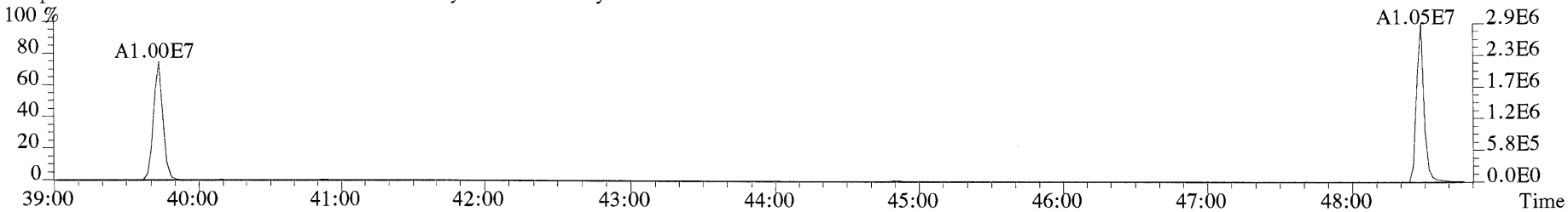
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



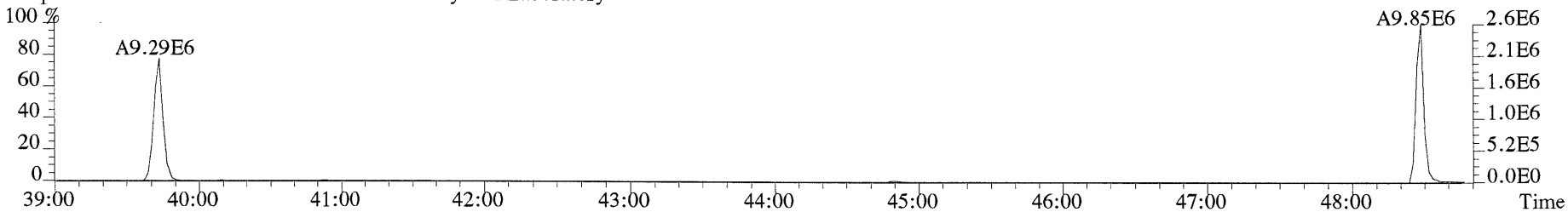
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



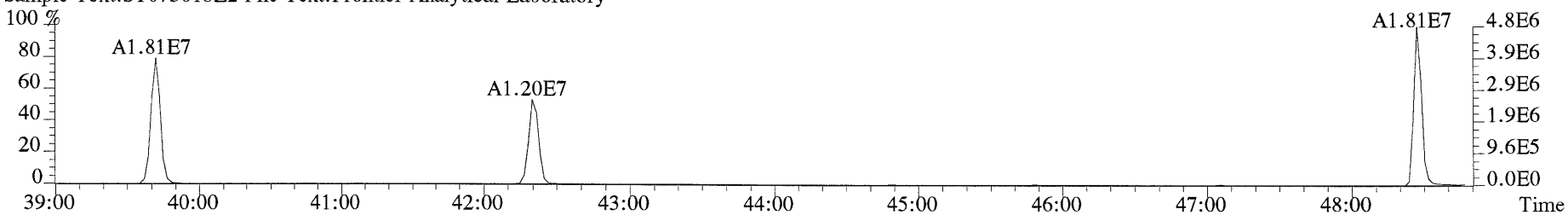
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



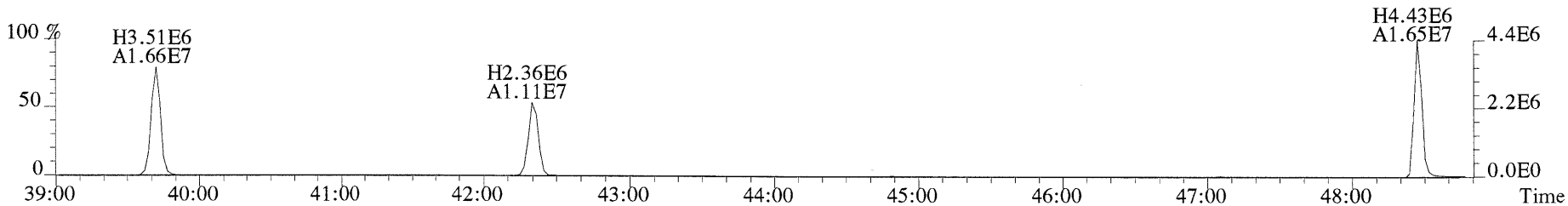
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



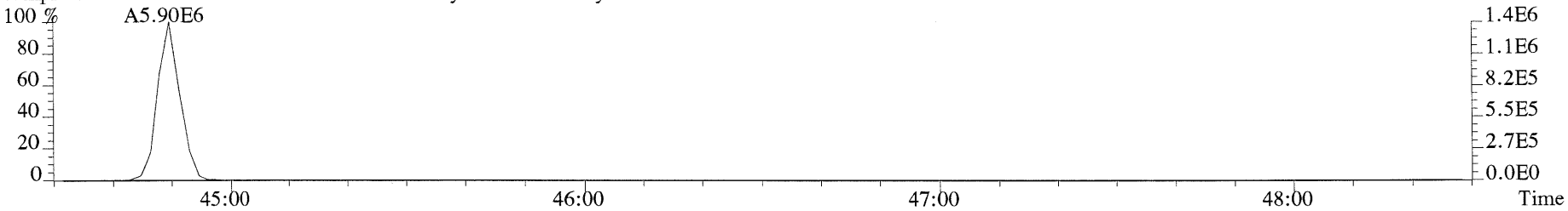
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



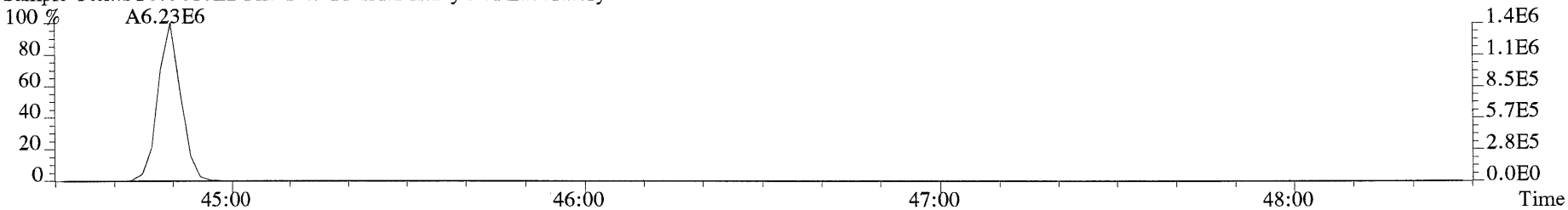
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



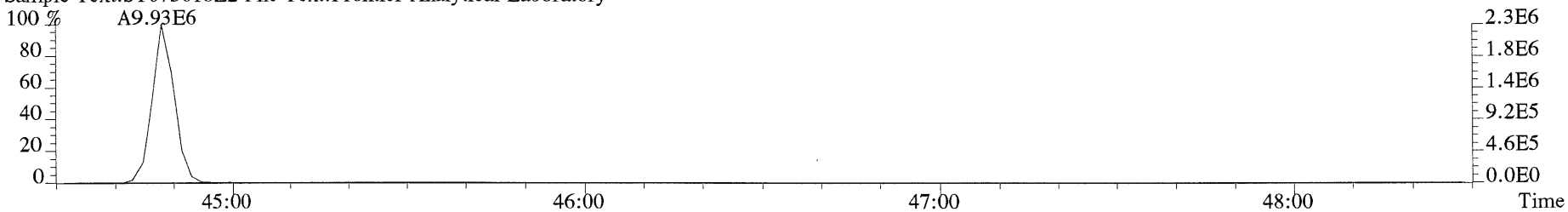
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



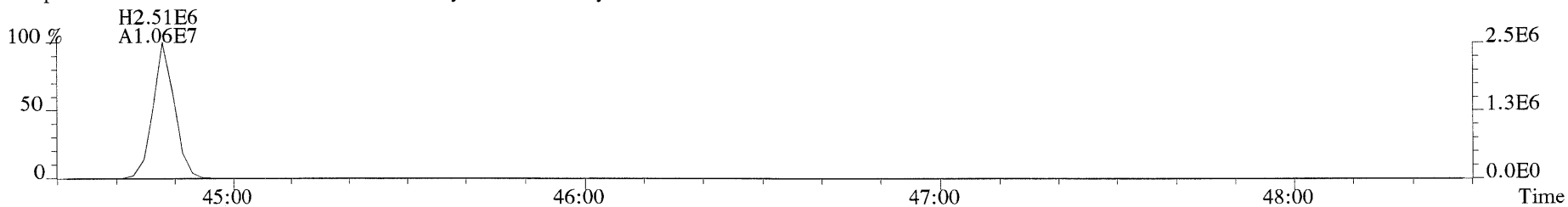
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



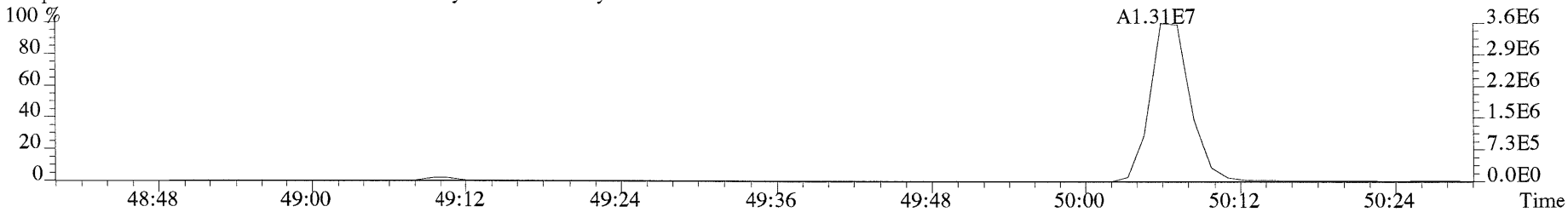
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



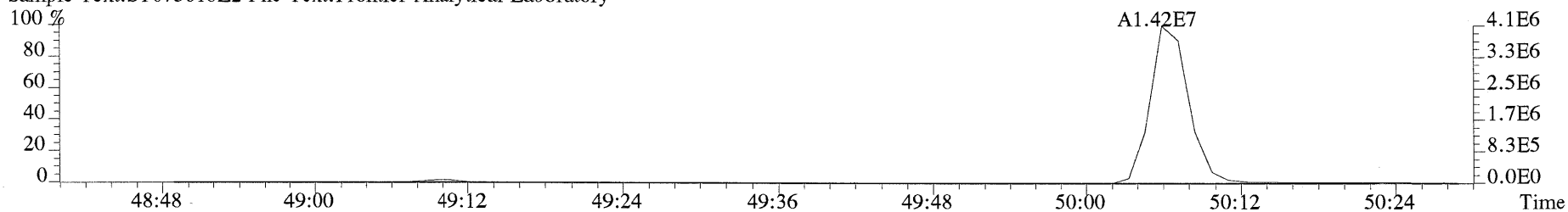
File:30JUL18Z #1-404 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



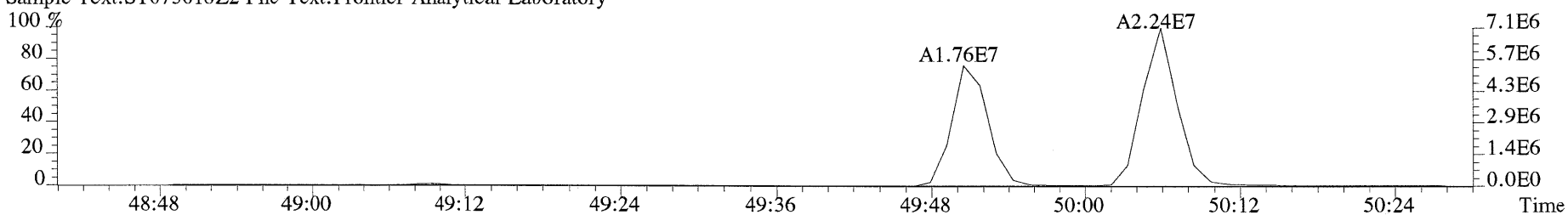
File:30JUL18Z #1-314 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



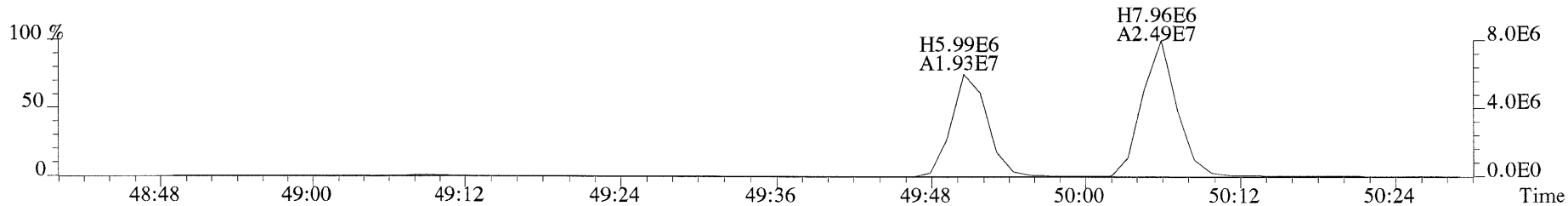
File:30JUL18Z #1-314 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



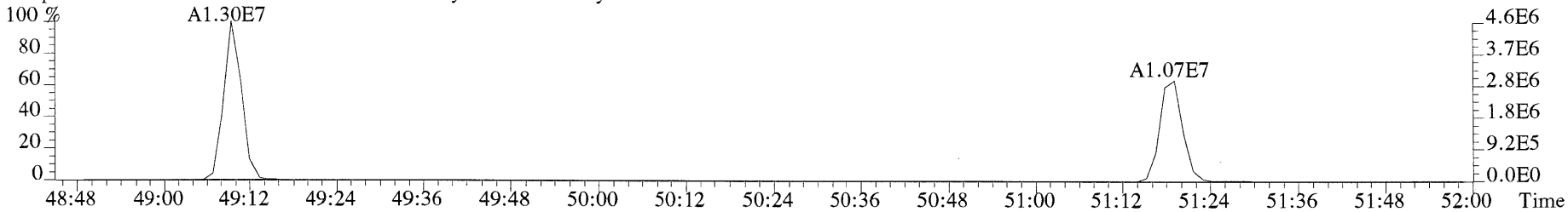
File:30JUL18Z #1-314 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



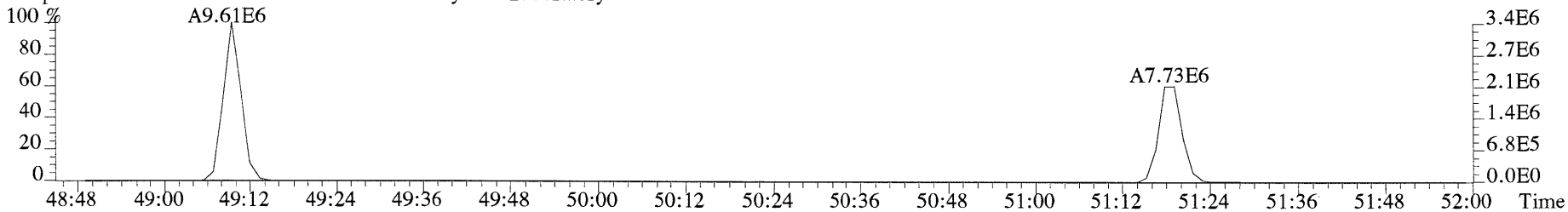
File:30JUL18Z #1-314 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



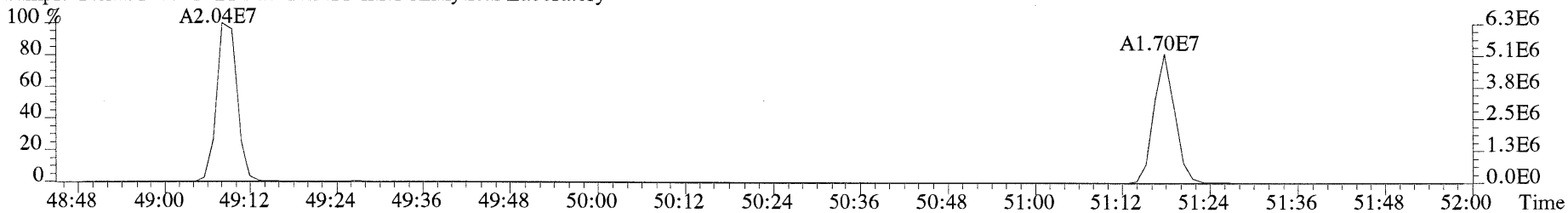
File:30JUL18Z #1-314 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



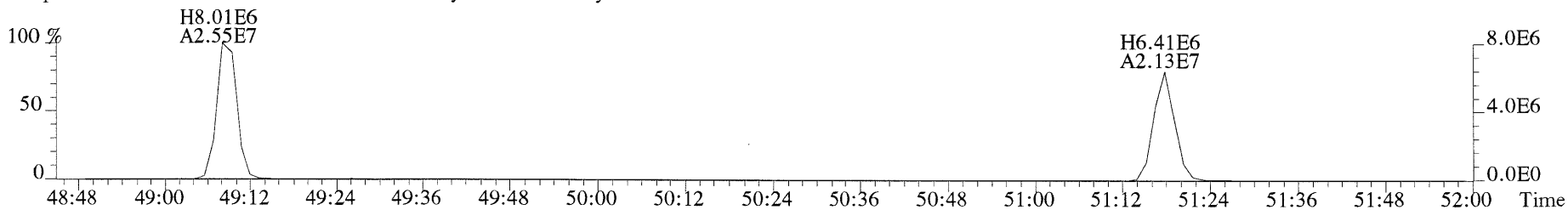
File:30JUL18Z #1-314 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



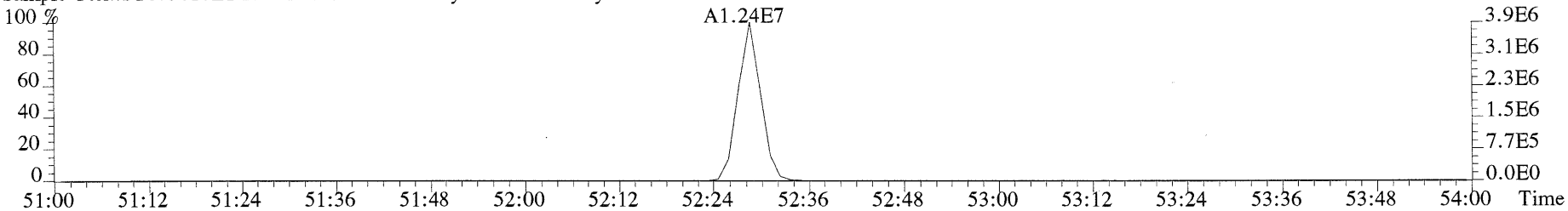
File:30JUL18Z #1-314 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



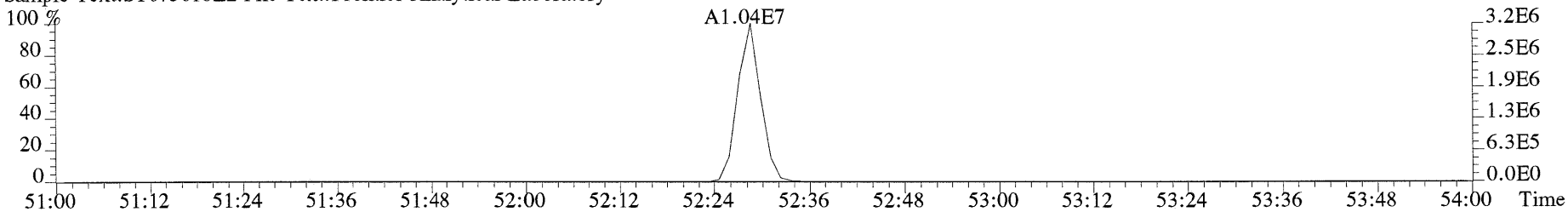
File:30JUL18Z #1-314 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



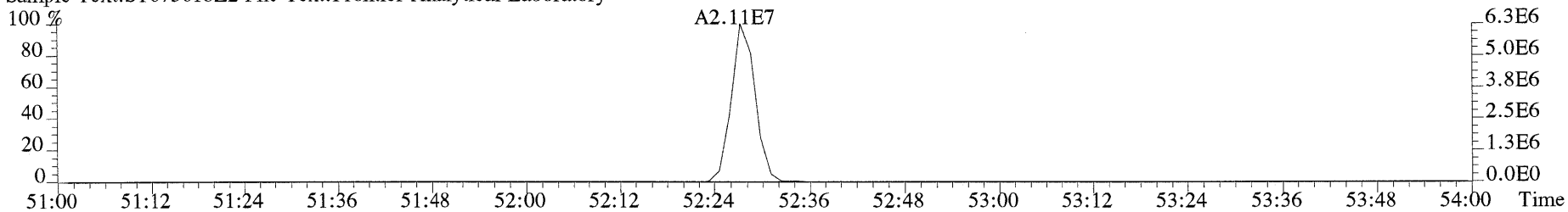
File:30JUL18Z #1-314 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



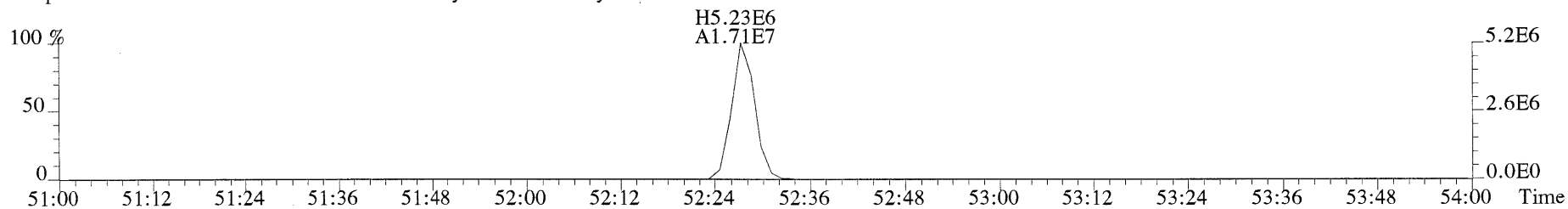
File:30JUL18Z #1-314 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory



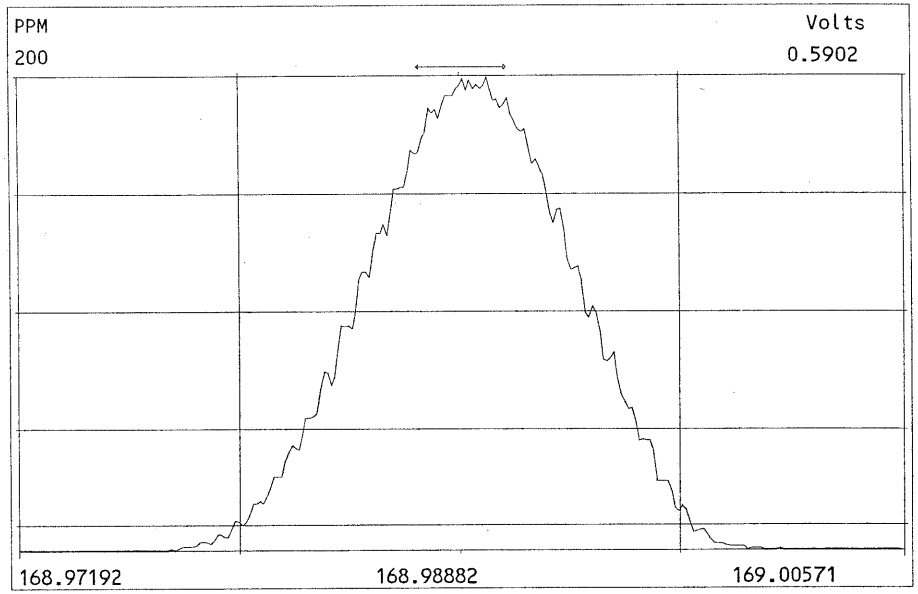
File:30JUL18Z #1-314 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory

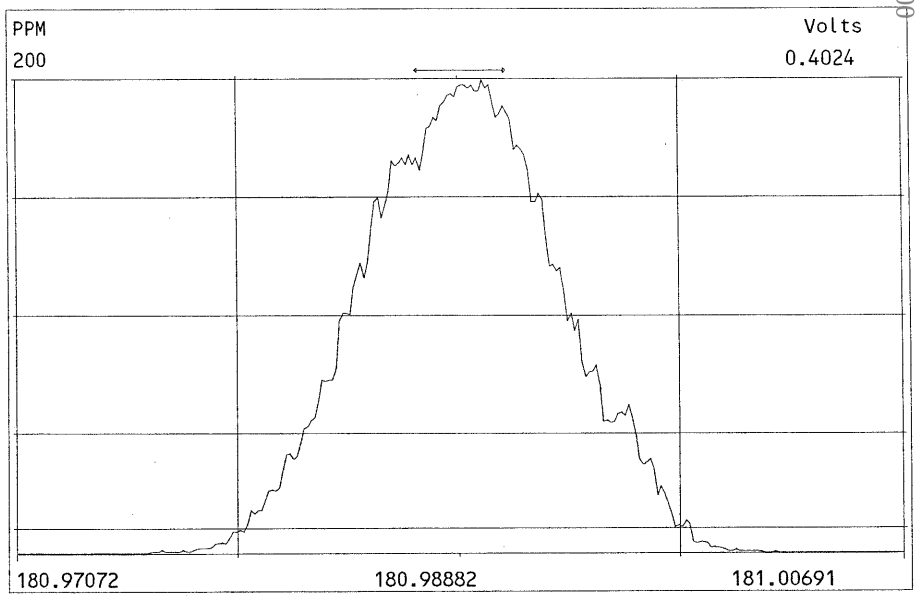


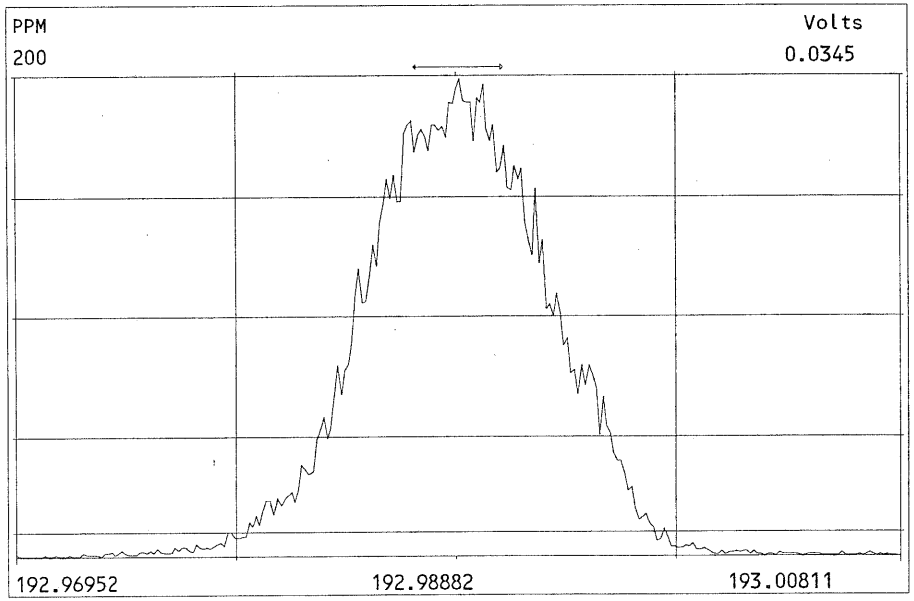
File:30JUL18Z #1-314 Acq:31-JUL-2018 00:58:33 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073018Z2 File Text:Frontier Analytical Laboratory

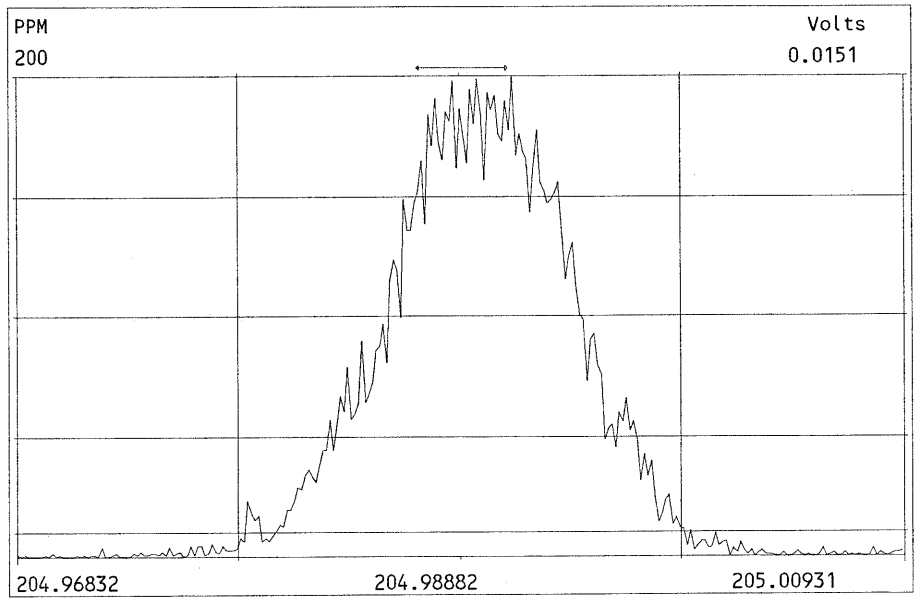


Peak Locate Examination:31-JUL-2018:02:25 File:30JUL18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

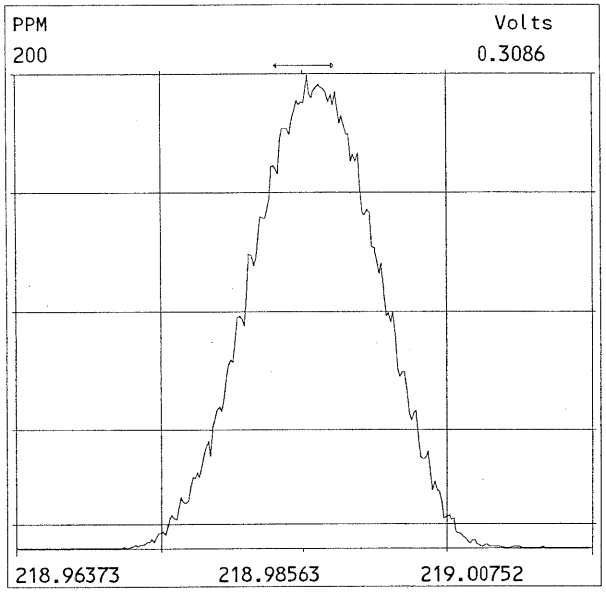


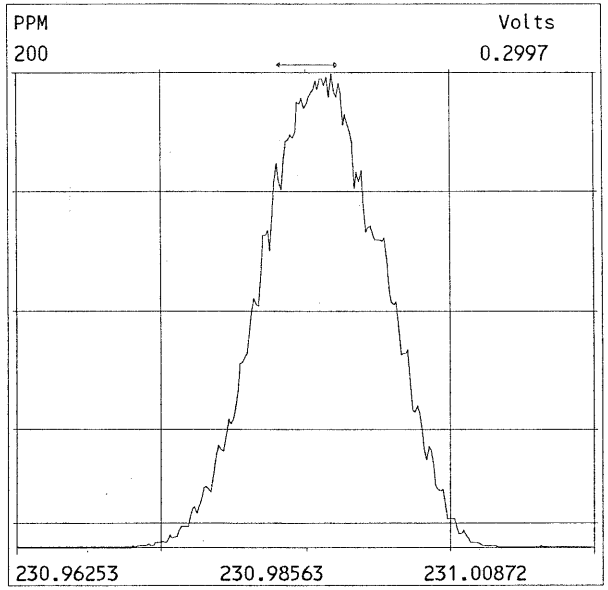


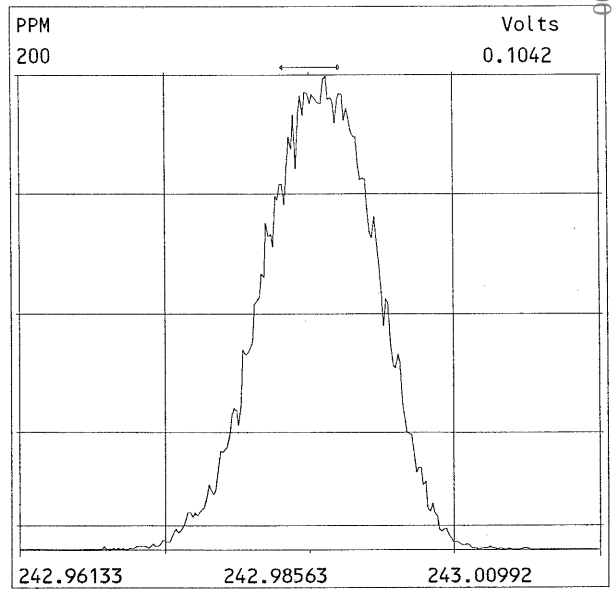


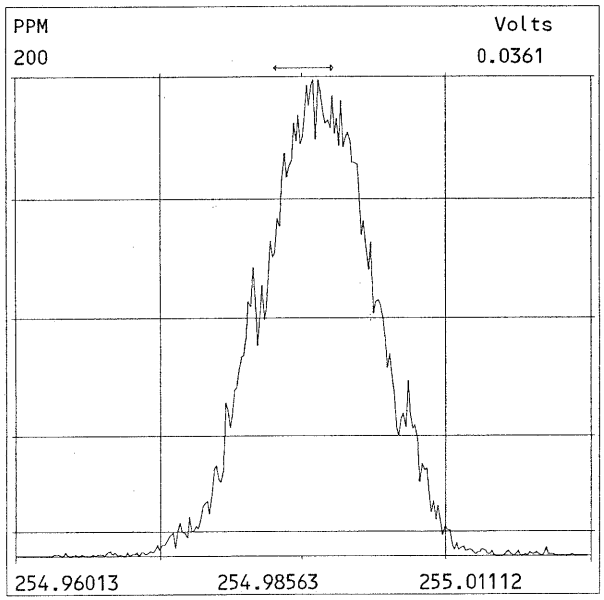


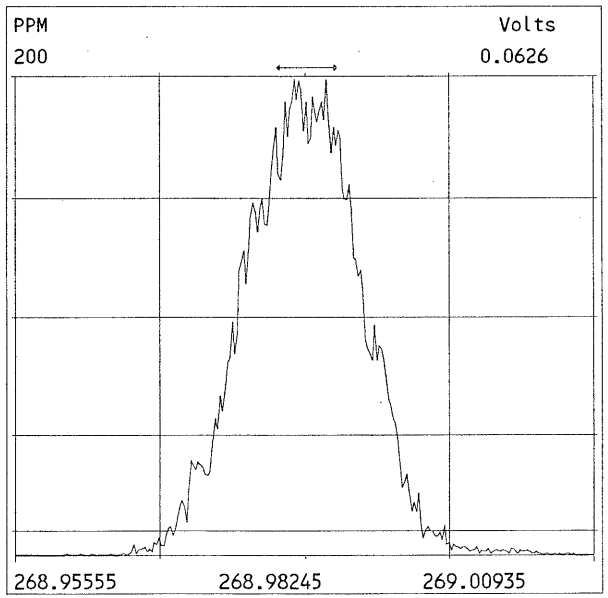
Peak Locate Examination:31-JUL-2018:02:28 File:30JUL18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

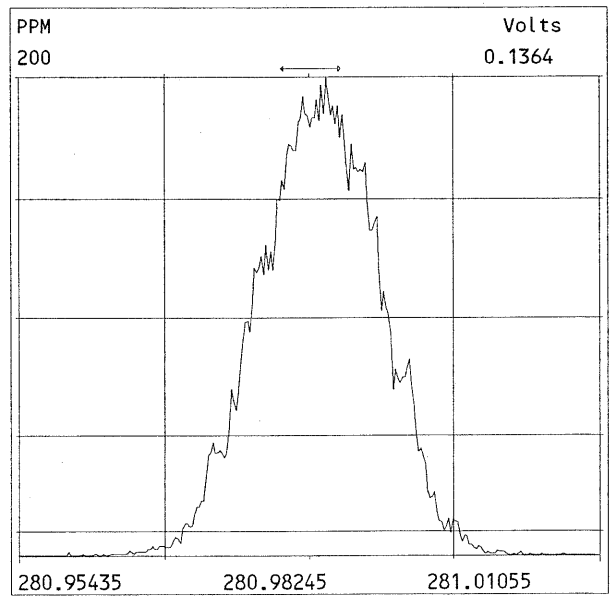




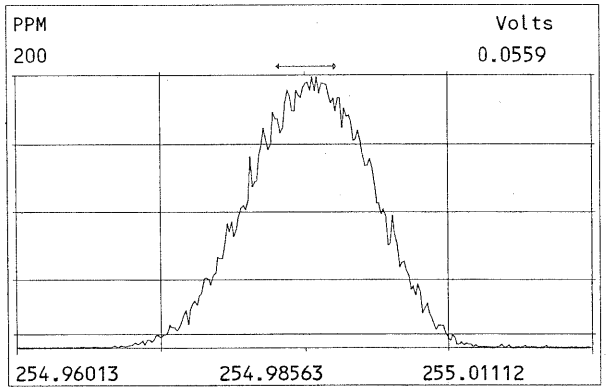


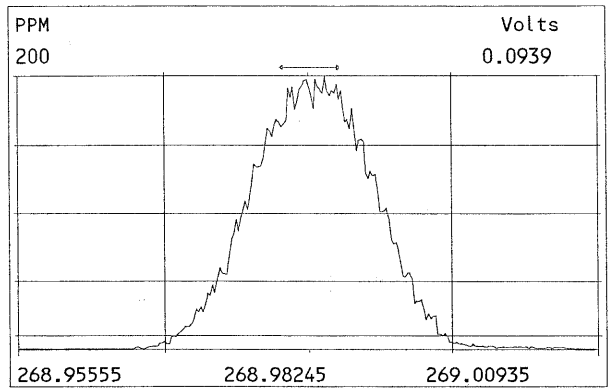


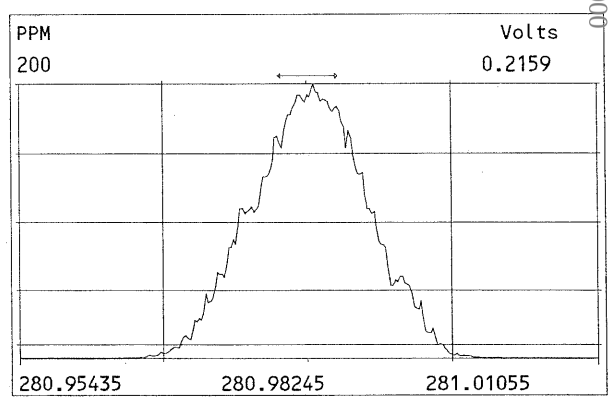


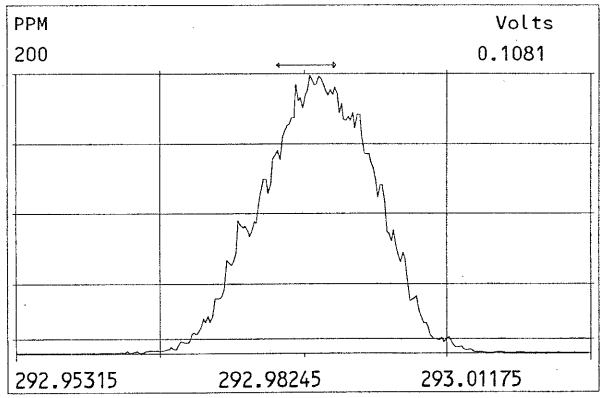


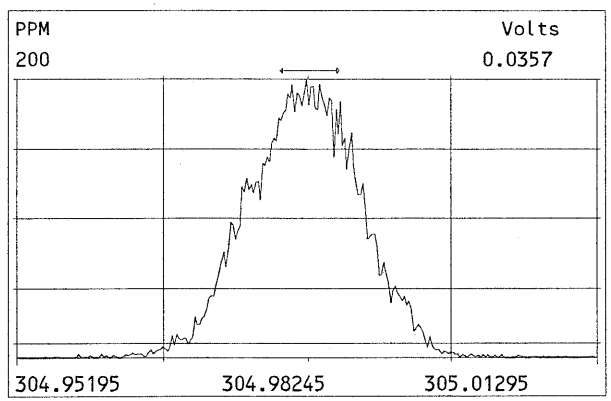
Peak Locate Examination:31-JUL-2018:02:30 File:30JUL18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

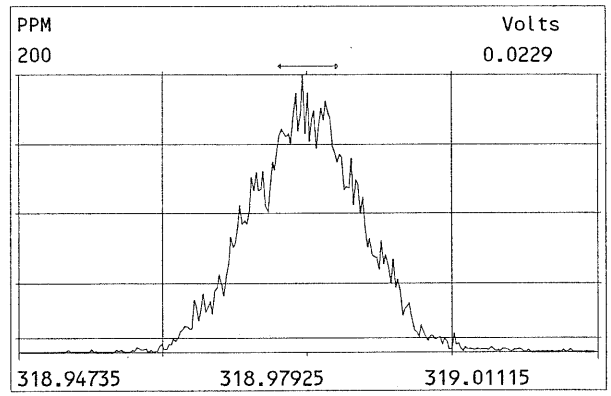


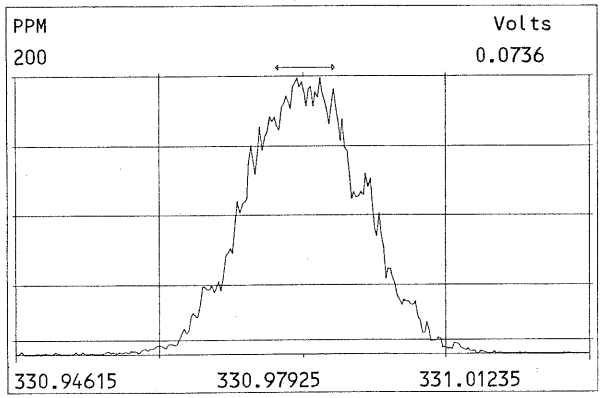


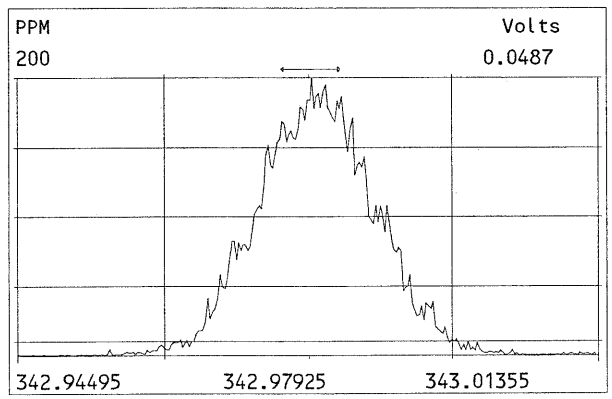




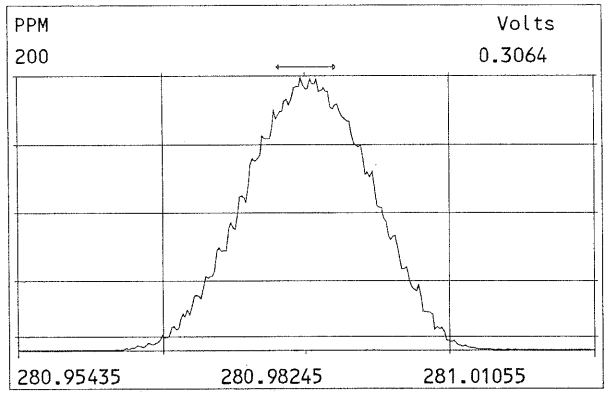


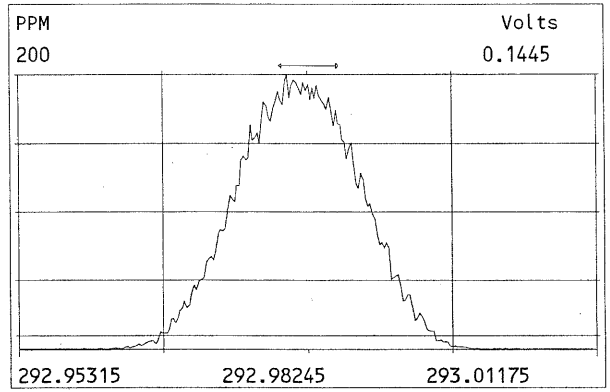


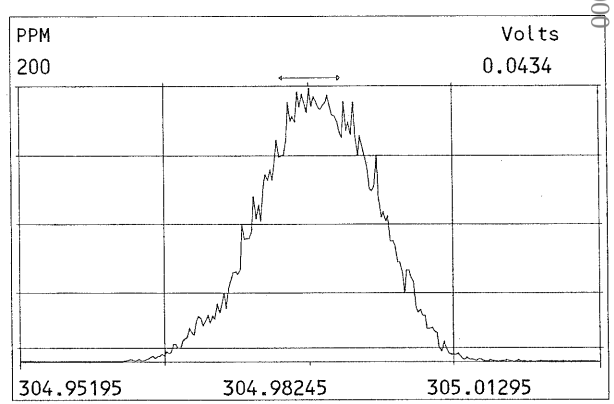


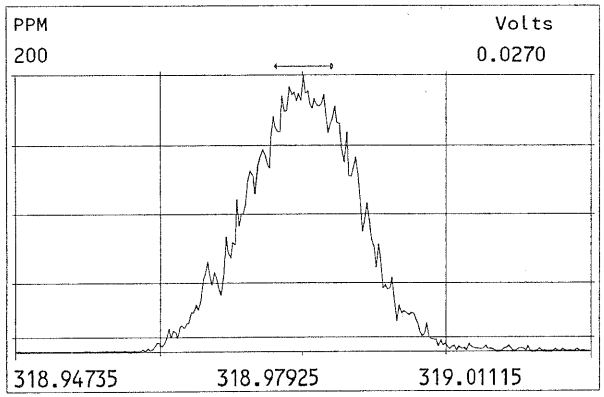


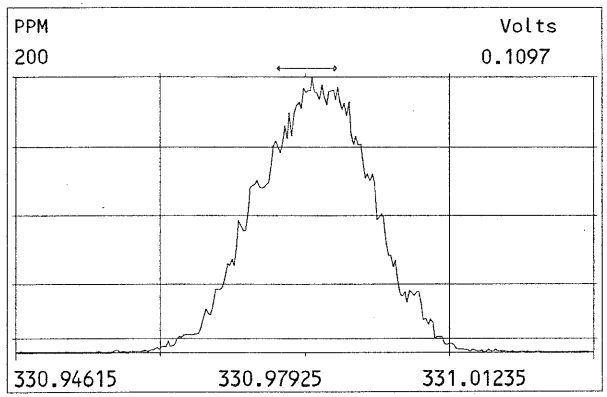
Peak Locate Examination:31-JUL-2018:02:32 File:30JUL18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

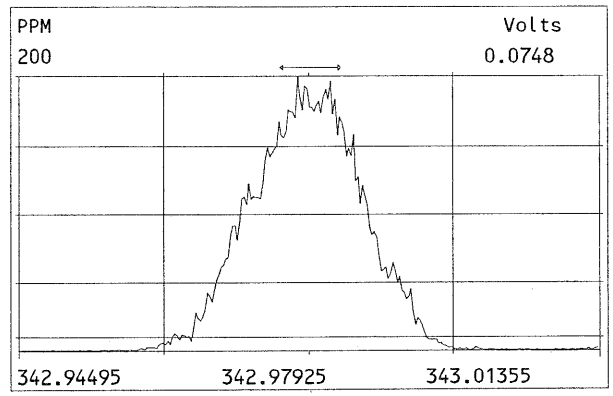


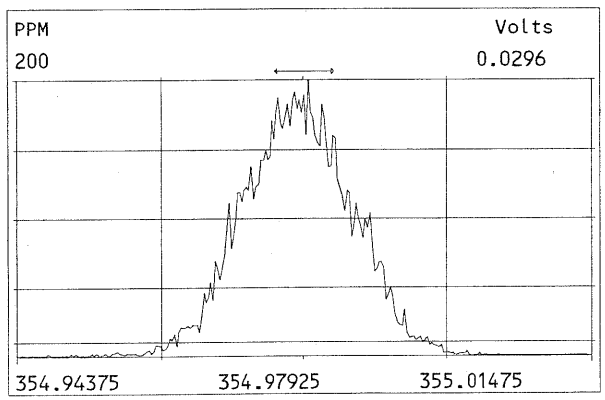


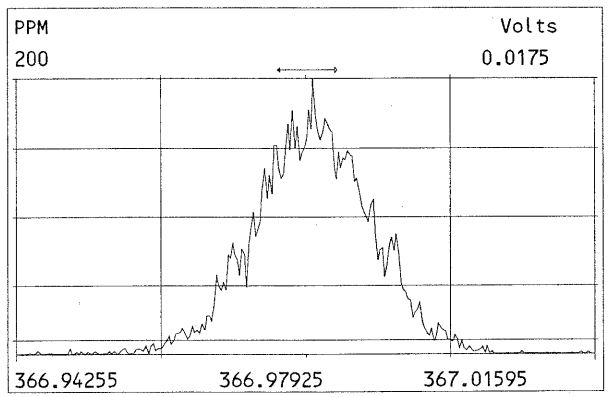


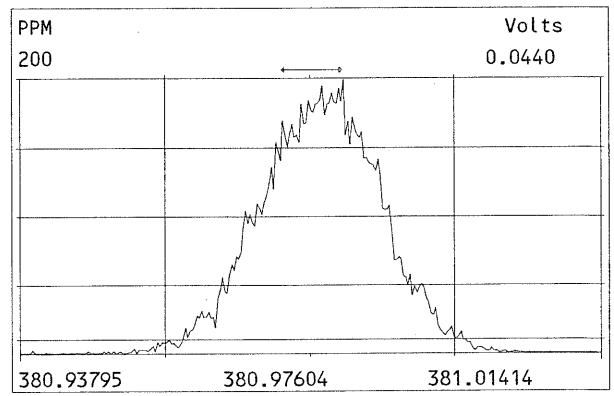




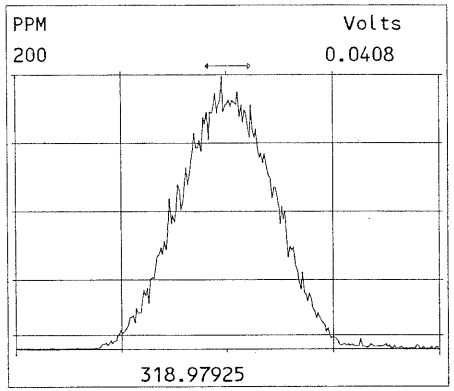


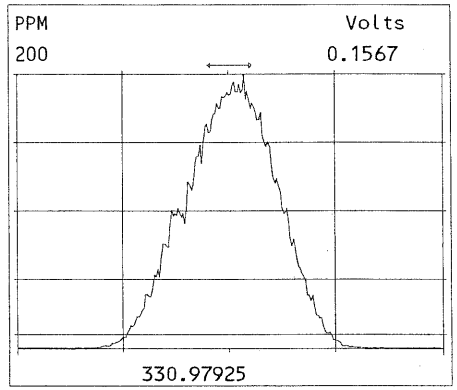


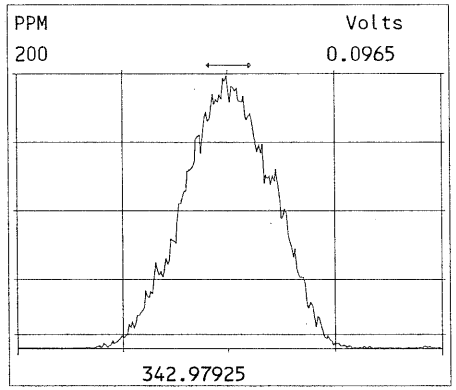


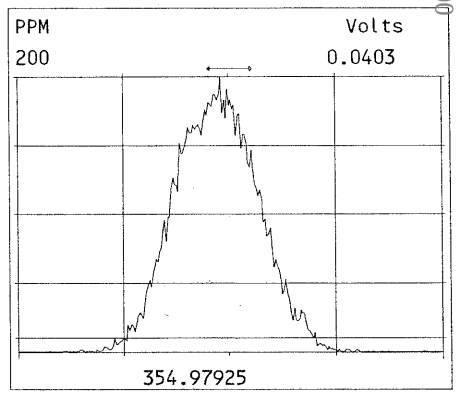


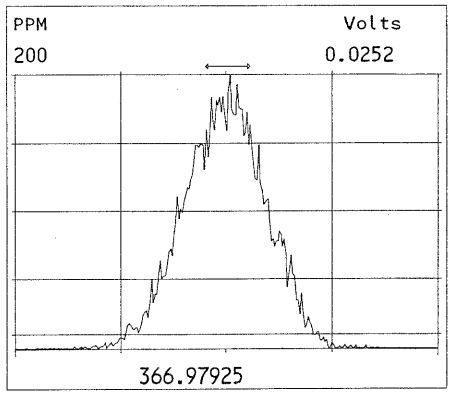
Peak Locate Examination:31-JUL-2018:02:35 File:30JUL18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

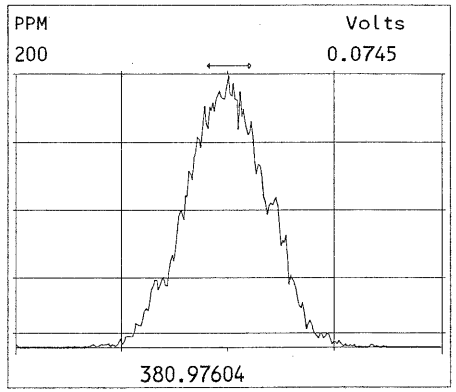


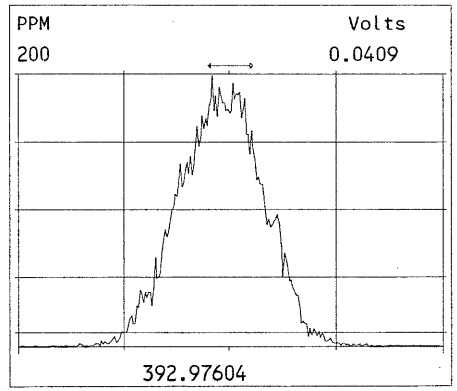


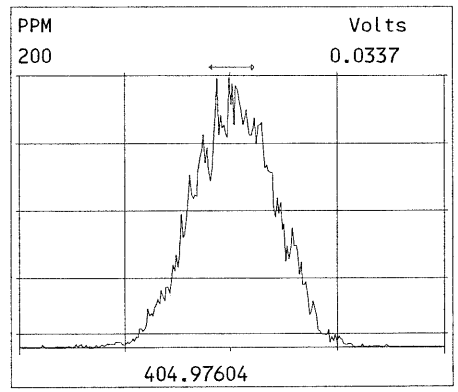


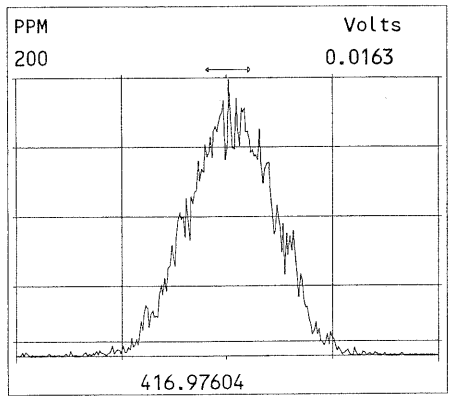


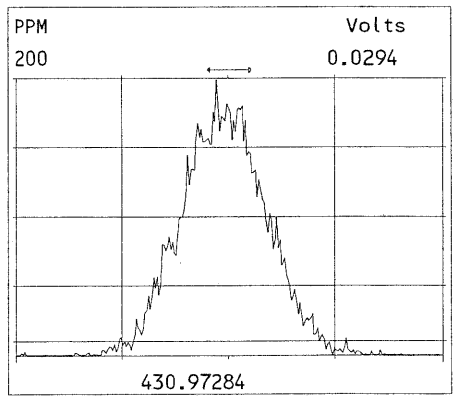


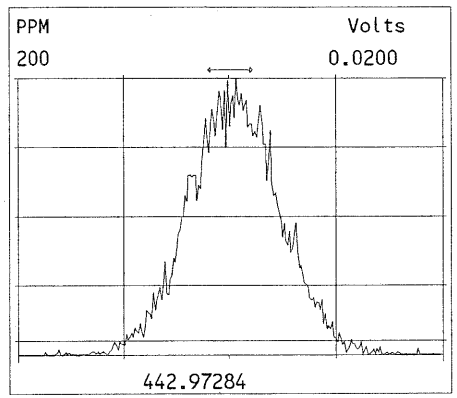




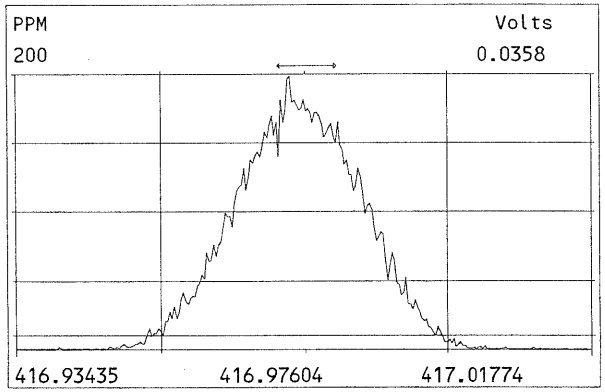


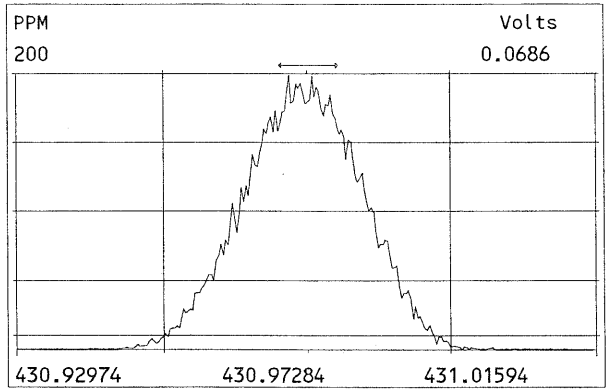


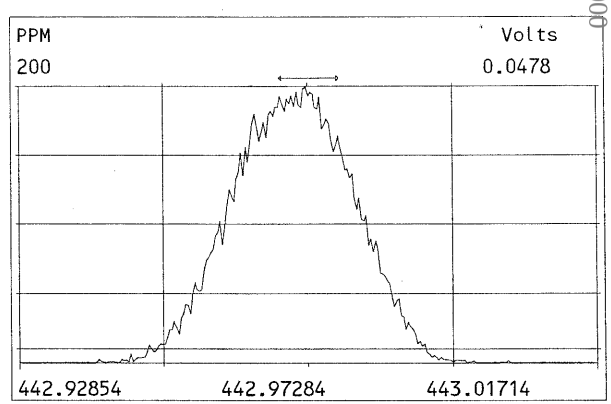


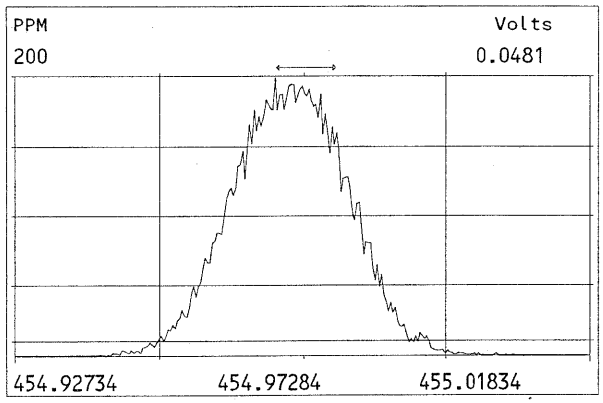


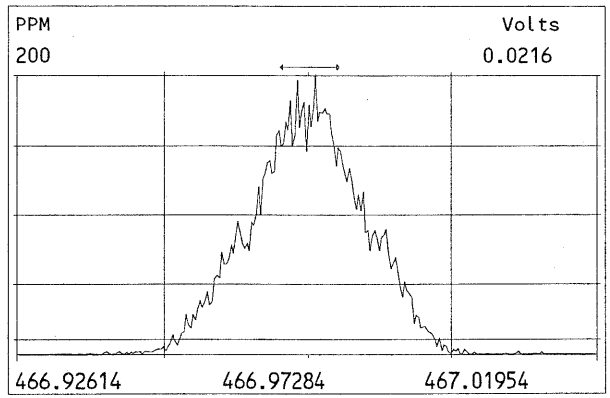
Peak Locate Examination:31-JUL-2018:02:37 File:30JUL18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

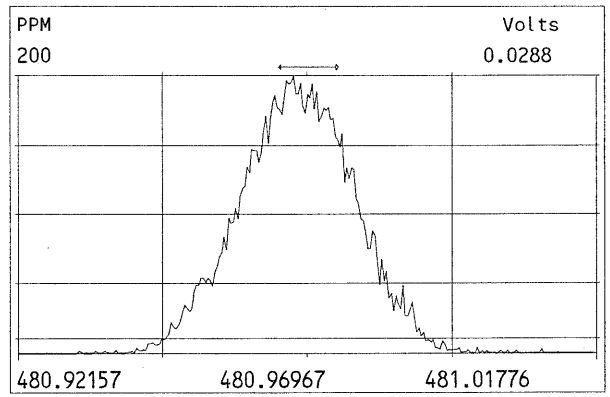


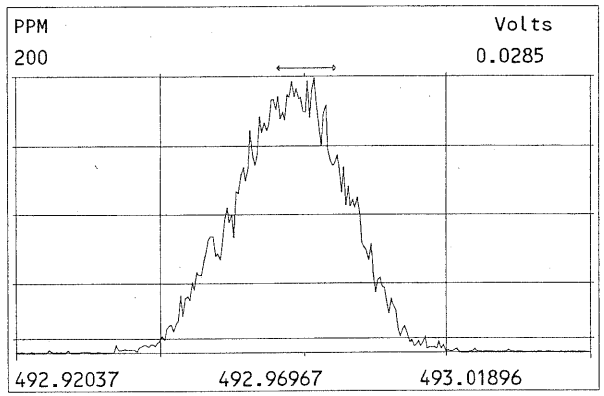


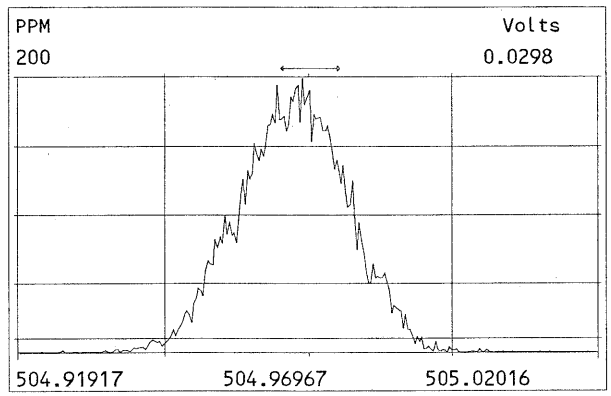


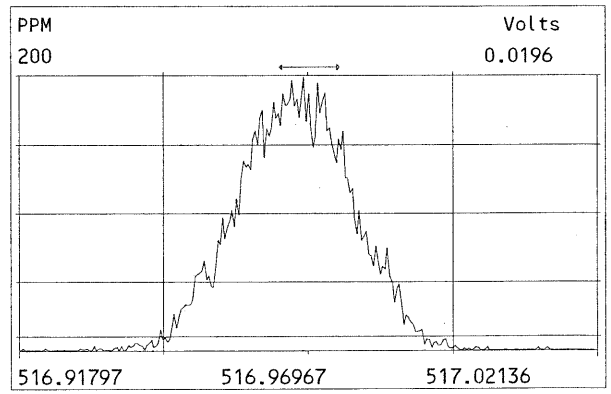












Frontier Analytical Laboratory

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: 31JUL18Z Sam:1 Analysis Date: 31-JUL-18 10:12:49

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	54.9	37.5 - 62.5
PCB-3	M/M+2	3.26	2.66-3.60	y	54.9	37.5 - 62.5
PCB-4	M/M+2	1.63	1.33-1.79	y	57.3	37.5 - 62.5
PCB-15	M/M+2	1.62	1.33-1.79	y	57.6	37.5 - 62.5
PCB-19	M/M+2	1.11	0.88-1.20	y	51.6	37.5 - 62.5
PCB-37	M/M+2	1.14	0.88-1.20	y	46.7	37.5 - 62.5
PCB-54	M/M+2	0.75	0.65-0.89	y	50.4	37.5 - 62.5
PCB-77	M/M+2	0.81	0.65-0.89	y	54.7	37.5 - 62.5
PCB-81	M/M+2	0.82	0.65-0.89	y	54.3	37.5 - 62.5
PCB-104	M+2/M+4	1.60	1.32-1.78	y	50.7	37.5 - 62.5
PCB-105	M+2/M+4	1.62	1.32-1.78	y	53.7	37.5 - 62.5
PCB-114	M+2/M+4	1.68	1.32-1.78	y	53.8	37.5 - 62.5
PCB-118	M+2/M+4	1.66	1.32-1.78	y	53.0	37.5 - 62.5
PCB-123	M+2/M+4	1.62	1.32-1.78	y	54.4	37.5 - 62.5
PCB-126	M+2/M+4	1.65	1.32-1.78	y	54.1	37.5 - 62.5
PCB-155	M+2/M+4	1.31	1.05-1.43	y	55.4	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	53.6	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	52.9	37.5 - 62.5
PCB-167	M+2/M+4	1.29	1.05-1.43	y	54.5	37.5 - 62.5
PCB-169	M+2/M+4	1.28	1.05-1.43	y	53.3	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	51.1	37.5 - 62.5
PCB-189	M+2/M+4	1.08	0.89-1.21	y	53.5	37.5 - 62.5
PCB-202	M+2/M+4	0.99	0.76-1.02	y	56.8	37.5 - 62.5
PCB-205	M+2/M+4	0.93	0.76-1.02	y	55.1	37.5 - 62.5
PCB-206	M+4/M+6	1.33	1.13-1.53	y	48.3	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	50.7	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	51.5	37.5 - 62.5

Analyst: [illegible] Date: 7/31/18

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: 31JUL18Z Sam:1 Analysis Date: 31-JUL-18 10:12:49

	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	3.29	2.66-3.60	y	77.8	50.0 - 145
13C-PCB-3	M/M+2	3.44	2.66-3.60	y	79.3	50.0 - 145
13C-PCB-4	M/M+2	1.66	1.33-1.79	y	99.8	50.0 - 145
13C-PCB-15	M/M+2	1.65	1.33-1.79	y	93.4	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	76.3	50.0 - 145
13C-PCB-37	M/M+2	1.08	0.88-1.20	y	102	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	111	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	106	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	107	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	1.64	1.32-1.78	y	106	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	108	50.0 - 145
13C-PCB-118	M+2/M+4	1.64	1.32-1.78	y	114	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	106	50.0 - 145
13C-PCB-126	M+2/M+4	1.64	1.32-1.78	y	104	50.0 - 145
13C-PCB-155	M+2/M+4	1.38	1.05-1.43	y	77.6	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	90.2	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	92.3	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	93.4	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	88.7	50.0 - 145
13C-PCB-188	M+2/M+4	1.10	0.89-1.21	y	83.3	50.0 - 145
13C-PCB-189	M+2/M+4	1.12	0.89-1.21	y	76.1	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	61.5	50.0 - 145
13C-PCB-205	M+2/M+4	0.92	0.76-1.02	y	97.0	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	101	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	97.2	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	92.8	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.03	0.88-1.20	y	113	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	94.3	75.0 - 125
13C-PCB-178	M+2/M+4	1.11	0.89-1.21	y	83.6	75.0 - 125

Analyst: _____ Date: 7/31/18

FAL ID: ST073118Z1 Filename: 31JUL18Z Sam:1 Acquired: 31-JUL-18 10:12:49 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 30JUL18Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.43e+07	3.25 y	14:32	1.11	54.9		2.50	-	-	*	-
13C-PCB-1	7.29e+07	3.29 y	14:31	1.07	77.8		2.50				77.8
PCB-3	4.46e+07	3.26 y	16:58	1.13	54.9		2.50	-	-	*	-
13C-PCB-3	7.20e+07	3.44 y	16:57	1.03	79.3		2.50				79.3
PCB-4	3.88e+07	1.63 y	18:12	1.14	57.3		2.50	-	-	*	-
13C-PCB-4	5.92e+07	1.66 y	18:10	0.67	99.8		2.50				99.8
PCB-15	5.39e+07	1.62 y	23:45	1.10	57.6		2.50	-	-	*	-
13C-PCB-15	8.49e+07	1.65 y	23:44	1.03	93.4		2.50				93.4
PCB-19	2.00e+07	1.11 y	22:05	1.23	51.6		2.50	-	-	*	-
13C-PCB-19	3.15e+07	1.09 y	22:04	0.47	76.3		2.50				76.3
13C-PCB-9	8.79e+07	1.63 y	19:52	-	376		2.50				
PCB-37	2.73e+07	1.14 y	30:25	1.26	46.7		2.50	-	-	*	-
13C-PCB-37	4.65e+07	1.08 y	30:24	1.40	102		2.50				102
PCB-54	2.50e+07	0.75 y	25:37	1.16	50.4		2.50	-	-	*	-
13C-PCB-54	4.29e+07	0.79 y	25:36	1.19	111		2.50				111
PCB-104	1.68e+07	1.60 y	30:04	1.22	50.7		2.50	-	-	*	-
13C-PCB-104	2.71e+07	1.64 y	30:02	0.80	104		2.50				104
13C-PCB-28	5.62e+07	1.03 y	26:41	1.53	113		2.50				113
13C-PCB-52	3.25e+07	0.79 y	28:58	-	251		2.50				
PCB-81	3.03e+07	0.82 y	36:11	1.17	54.3		2.50	-	-	*	-
13C-PCB-81	4.77e+07	0.79 y	36:10	1.37	107		2.50				107
PCB-77	2.94e+07	0.81 y	36:45	1.11	54.7		2.50	-	-	*	-
13C-PCB-77	4.84e+07	0.79 y	36:44	1.41	106		2.50				106
PCB-155	1.63e+07	1.31 y	34:14	1.14	55.4		2.50	-	-	*	-
13C-PCB-155	2.58e+07	1.38 y	34:12	1.02	77.6		2.50				77.6
13C-PCB-111	3.87e+07	1.61 y	36:19	1.26	94.3		2.50				94.3
13C-PCB-101	3.25e+07	1.63 y	34:39	-	288		2.50				
PCB-123	2.82e+07	1.62 y	38:23	1.12	54.4		2.50	-	-	*	-
13C-PCB-123	4.62e+07	1.61 y	38:22	1.36	106		2.50				106
PCB-118	3.21e+07	1.66 y	38:33	1.16	53.0		2.50	-	-	*	-
13C-PCB-118	5.24e+07	1.64 y	38:31	1.42	114		2.50				114
PCB-114	2.90e+07	1.68 y	39:09	1.13	53.8		2.50	-	-	*	-
13C-PCB-114	4.78e+07	1.61 y	39:09	1.38	108		2.50				108
PCB-105	2.80e+07	1.62 y	39:59	1.11	53.7		2.50	-	-	*	-
13C-PCB-105	4.70e+07	1.64 y	39:57	1.38	106		2.50				106
PCB-126	2.59e+07	1.65 y	42:07	1.11	54.1		2.50	-	-	*	-
13C-PCB-126	4.31e+07	1.64 y	42:07	1.29	104		2.50				104
PCB-167	2.12e+07	1.29 y	43:28	1.05	54.5		2.50	-	-	*	-
13C-PCB-167	3.70e+07	1.28 y	43:28	1.23	93.4		2.50				93.4
PCB-156	1.99e+07	1.27 y	44:42	1.08	53.6		2.50	-	-	*	-
13C-PCB-156	3.45e+07	1.30 y	44:40	1.19	90.2		2.50				90.2
PCB-157	2.05e+07	1.26 y	44:57	1.06	52.9		2.50	-	-	*	-
13C-PCB-157	3.67e+07	1.29 y	44:57	1.24	92.3		2.50				92.3
PCB-169	1.86e+07	1.28 y	46:50	1.06	53.3		2.50	-	-	*	-
13C-PCB-169	3.28e+07	1.30 y	46:49	1.15	88.7		2.50				88.7
PCB-188	1.76e+07	1.08 y	39:44	1.14	51.1		2.50	-	-	*	-
13C-PCB-188	3.02e+07	1.10 y	39:42	1.13	83.3		2.50				83.3
PCB-189	1.38e+07	1.08 y	48:29	1.12	53.5		2.50	-	-	*	-
13C-PCB-189	2.31e+07	1.12 y	48:27	0.94	76.1		2.50				76.1
PCB-202	9.47e+06	0.99 y	44:50	1.09	56.8		2.50	-	-	*	-
13C-PCB-202	1.53e+07	0.92 y	44:48	0.77	61.5		2.50				61.5
13C-PCB-178	2.05e+07	1.11 y	42:20	0.76	83.6		2.50				83.6
13C-PCB-138	3.22e+07	1.31 y	41:34	-	294		2.50				

FAL ID: ST073118Z1 Filename: 31JUL18Z Sam:1 Acquired: 31-JUL-18 10:12:49 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 30JUL18Z GC Column: DB1MS Amount: 1.000

PCB-205	2.46e+07	0.93	y	50:07	1.04	55.1	2.50	-	-	*	-
13C-PCB-205	4.27e+07	0.92	y	50:06	1.32	97.0	2.50				97.0
PCB-208	2.11e+07	1.35	y	49:10	0.96	50.7	2.50	-	-	*	-
13C-PCB-208	4.32e+07	0.81	y	49:08	1.33	97.2	2.50				97.2
PCB-206	1.49e+07	1.33	y	51:18	0.97	48.3	2.50	-	-	*	-
13C-PCB-206	3.16e+07	0.78	y	51:18	0.94	101	2.50				101
PCB-209	1.96e+07	1.20	y	52:29	1.17	51.5	2.50	-	-	*	-
13C-PCB-209	3.24e+07	1.21	y	52:29	1.04	92.8	2.50				92.8
13C-PCB-194	3.34e+07	0.92	y	49:51	-	337	2.50				

Analyst: _____ Date: 7/31/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:31JUL18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

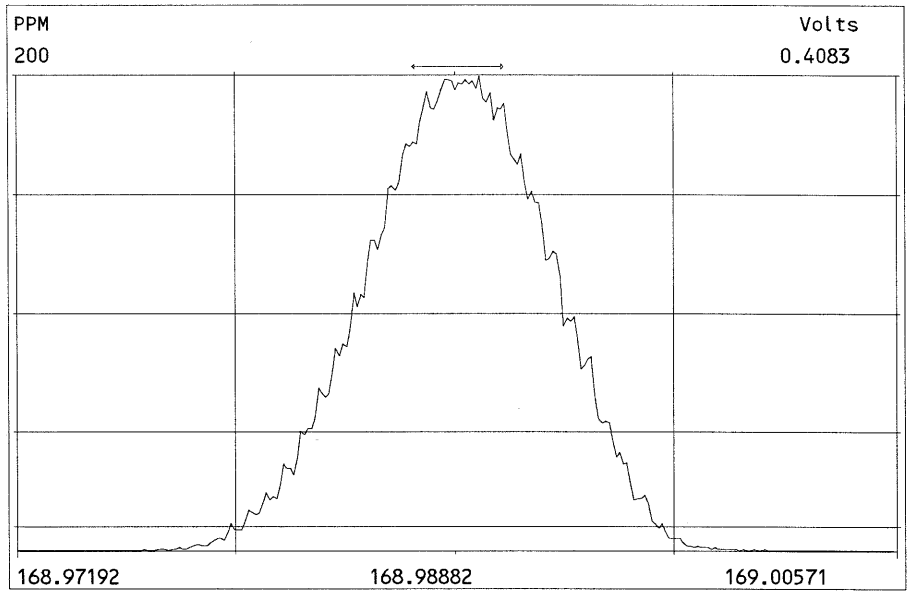
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
31JUL18Z	1	ST073118Z1	1668 CS3 170805A	31-JUL-18 10:12:49	ST073118Z1	ST073118Z2	BS
31JUL18Z	2	SS073118Z1	Daily 209 180725A	31-JUL-18 11:11:09	ST073118Z1	ST073118Z2	BS
31JUL18Z	3	04591-001-0001-OPR	OPR	31-JUL-18 12:09:55	ST073118Z1	ST073118Z2	BS
31JUL18Z	4	04591-001-0001-MB	Method Blank	31-JUL-18 13:08:20	ST073118Z1	ST073118Z2	BS
31JUL18Z	5	11719-007-0001-SA	LDW-Y1-SC-ENR-CA-CORE	31-JUL-18 14:06:41	ST073118Z1	ST073118Z2	BS
31JUL18Z	6	11719-008-0001-SA	LDW-Y1-SC-ENR-CB-CORE	31-JUL-18 15:05:27	ST073118Z1	ST073118Z2	BS
31JUL18Z	7	11719-009-0001-SA	LDW-Y1-SC-ENR-CC-CORE	31-JUL-18 16:04:08	ST073118Z1	ST073118Z2	BS
31JUL18Z	8	11719-010-0001-SA	LDW-Y1-SC-ENR+AC-CA-CORE	31-JUL-18 17:02:49	ST073118Z1	ST073118Z2	BS
31JUL18Z	9	11719-011-0001-SA	LDW-Y1-SC-ENR+AC-CB-CORE	31-JUL-18 18:01:29	ST073118Z1	ST073118Z2	BS
31JUL18Z	10	11719-012-0001-SA	LDW-Y1-SC-ENR+AC-CC-CORE	31-JUL-18 19:00:15	ST073118Z1	ST073118Z2	BS
31JUL18Z	11	11719-013-0001-SA	LDW-Y1-SU-ENR-CA-CORE	31-JUL-18 19:59:02	ST073118Z1	ST073118Z2	BS
31JUL18Z	12	11719-014-0001-SA	LDW-Y1-SU-ENR-CB-CORE	31-JUL-18 20:57:23	ST073118Z1	ST073118Z2	BS
31JUL18Z	13	11719-015-0001-SA	LDW-Y1-SU-ENR-CC-CORE	31-JUL-18 21:55:44	ST073118Z1	ST073118Z2	BS
31JUL18Z	14	SB073118Z1	Solvent Blank	31-JUL-18 22:54:06	ST073118Z1	ST073118Z2	BS
31JUL18Z	15	SB073118Z2	Solvent Blank	31-JUL-18 23:52:46	ST073118Z1	ST073118Z2	BS
31JUL18Z	16	ST073118Z2	1668 CS3 170805A	1-AUG-18 00:51:09	ST073118Z1	ST073118Z2	BS

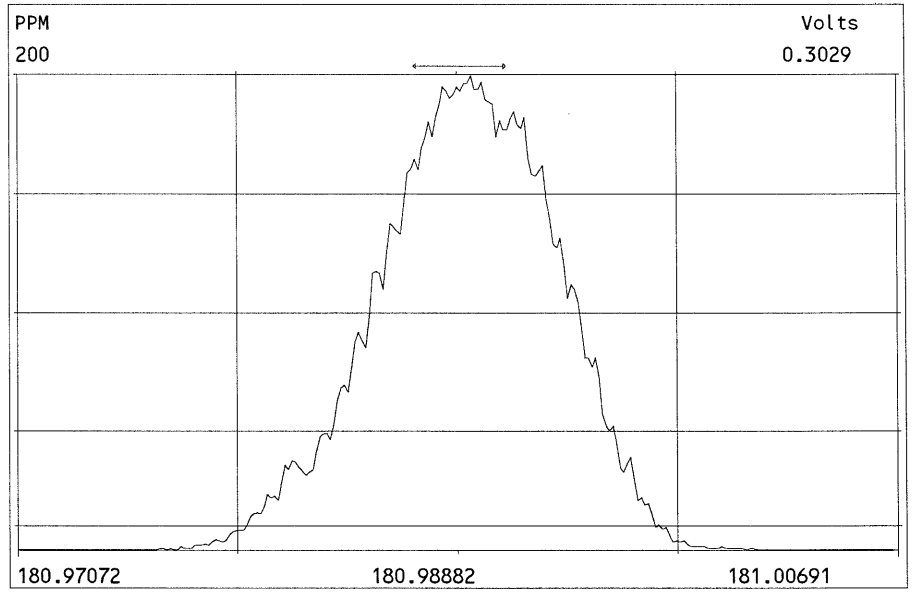
8/1/18

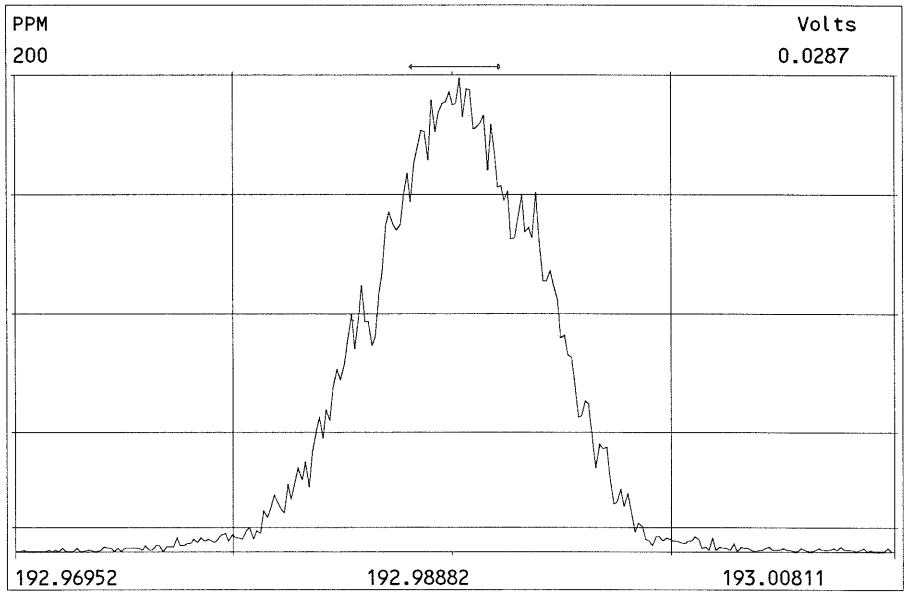
Data Backed Up:_____

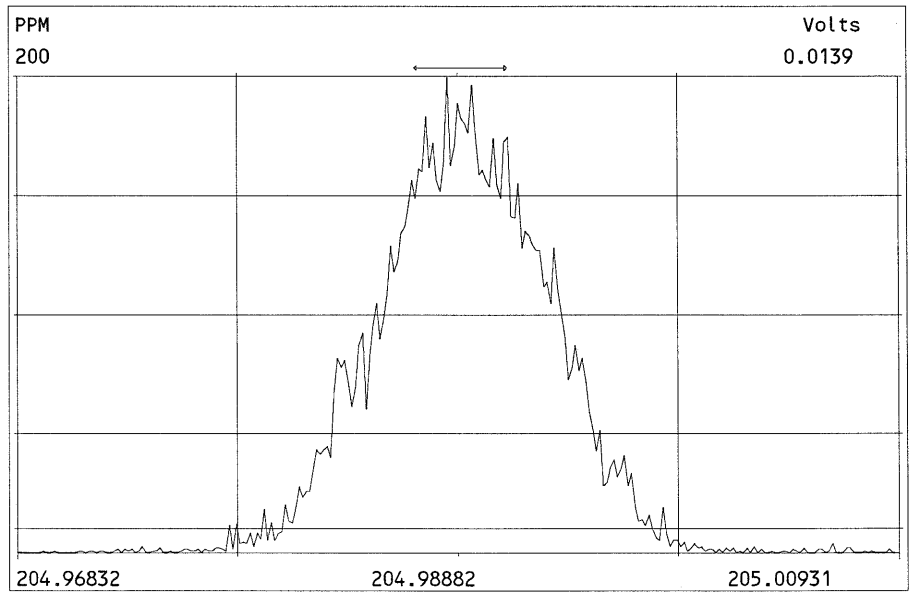
Date:_____

Peak Locate Examination:31-JUL-2018:10:09 File:31JUL18Z
Experiment:1668PCB Function:1 Reference:PFK

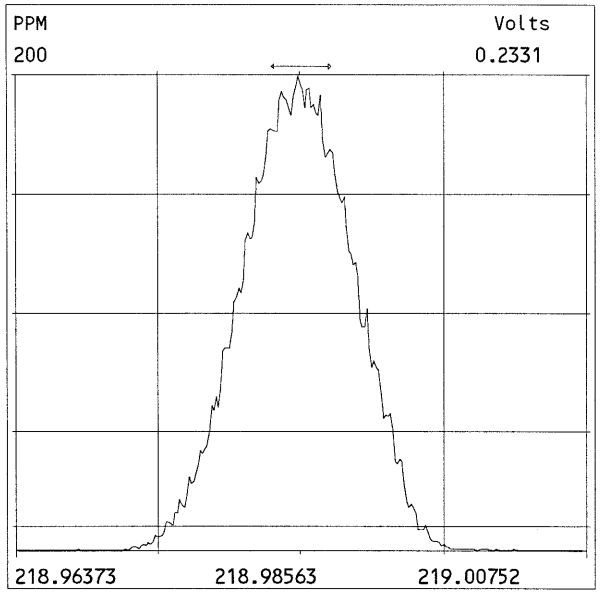


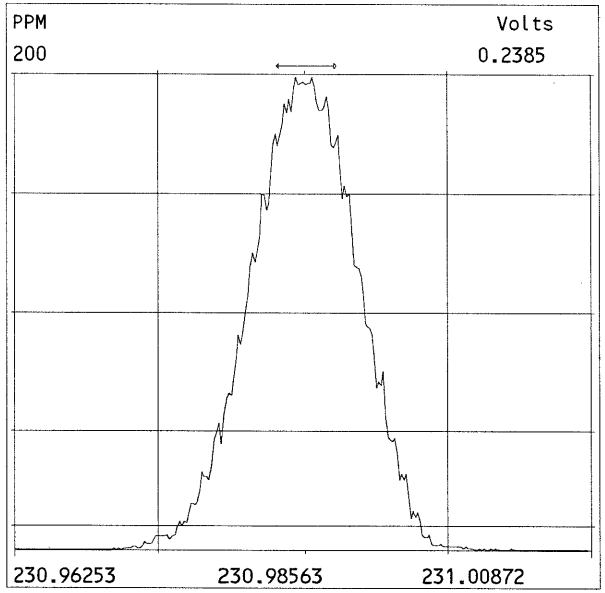


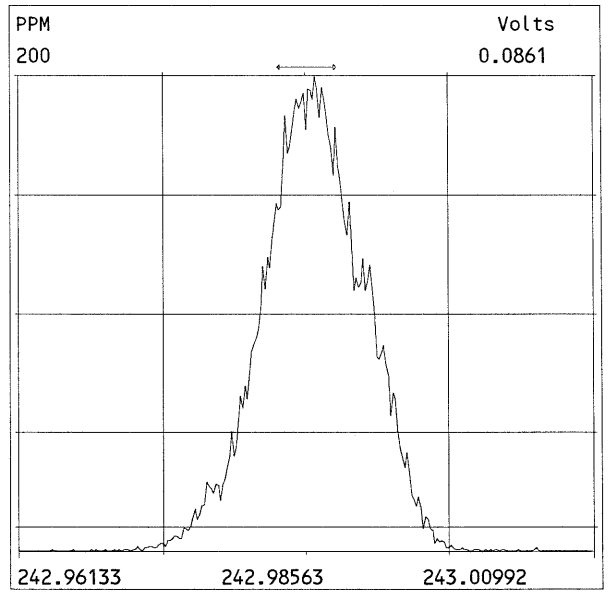


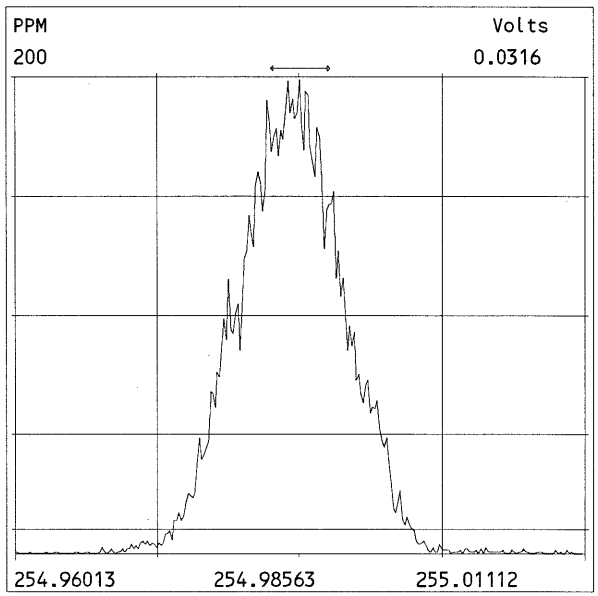


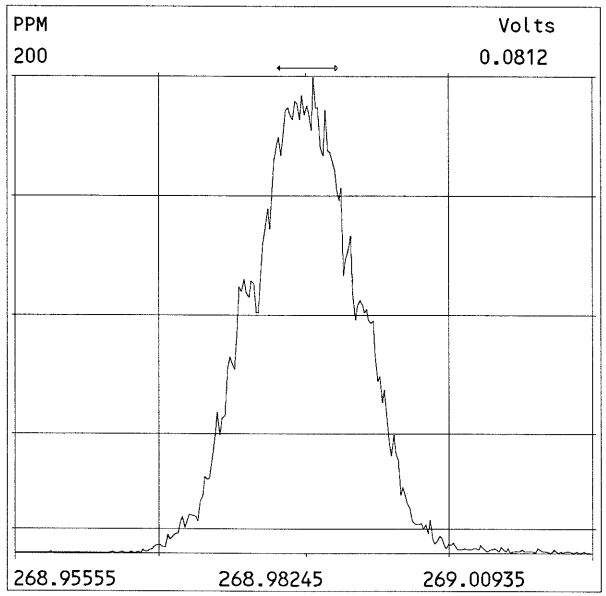
Peak Locate Examination:31-JUL-2018:10:10 File:31JUL18Z
Experiment:1668PCB Function:2 Reference:PFK

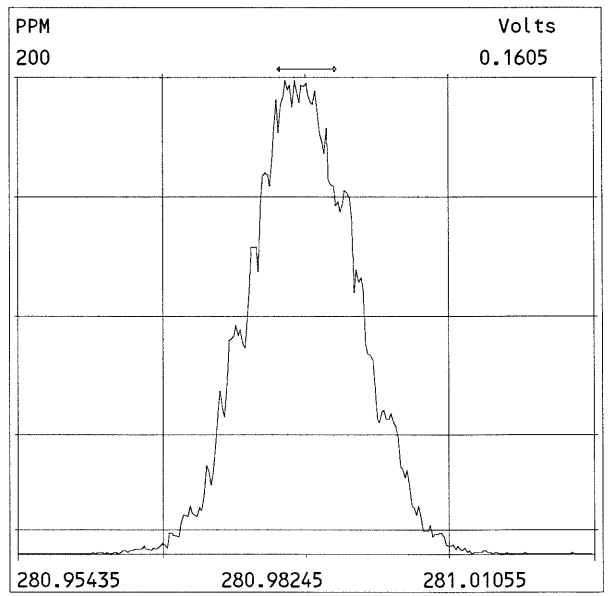




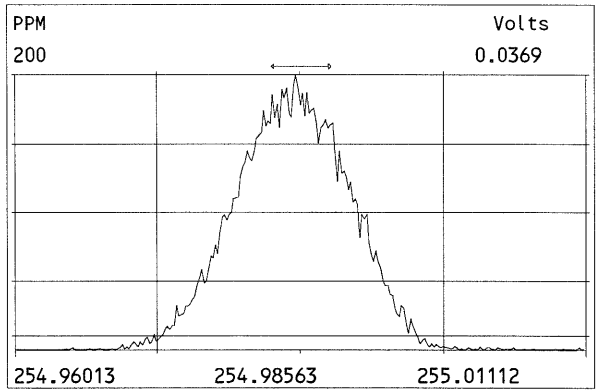


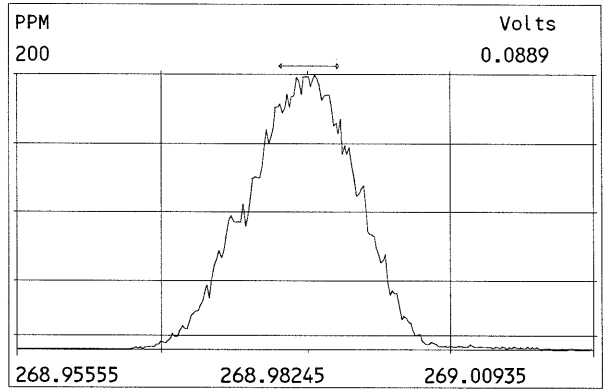


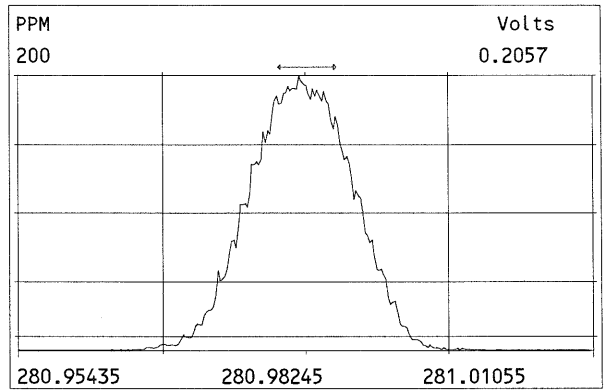


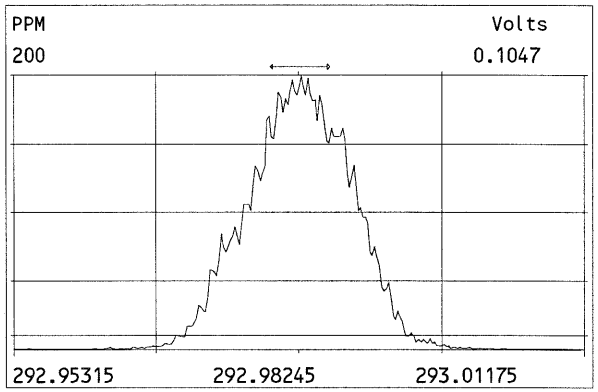


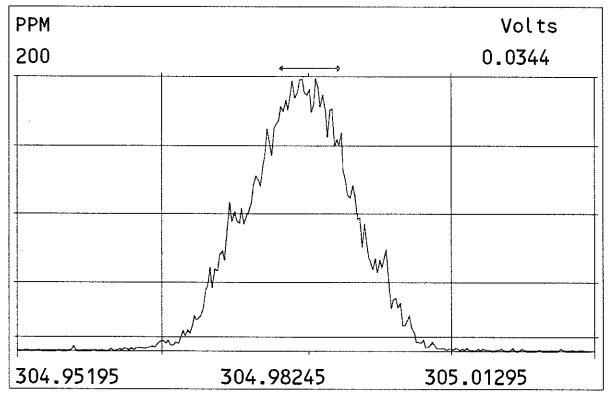
Peak Locate Examination:31-JUL-2018:10:10 File:31JUL18Z
Experiment:1668PCB Function:3 Reference:PFK

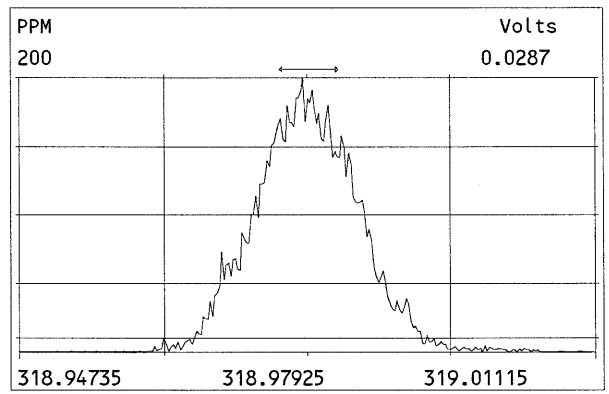


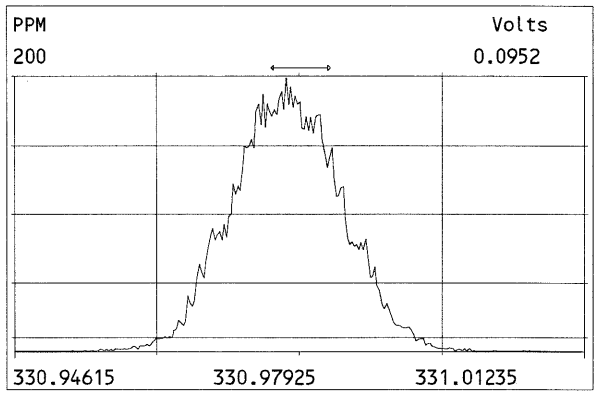


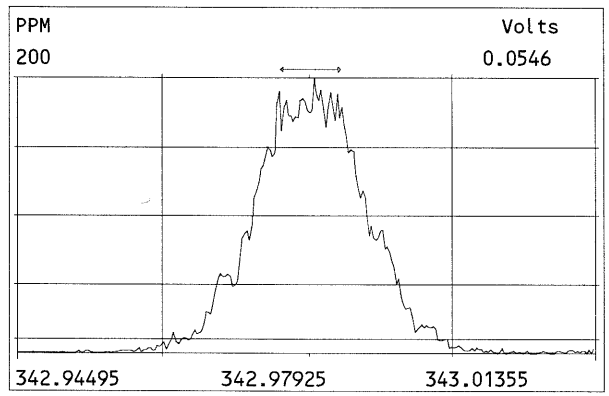




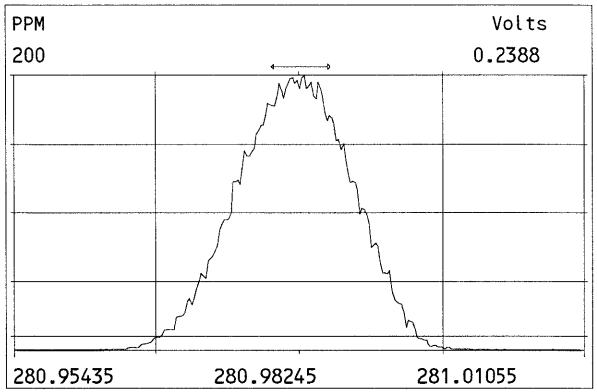


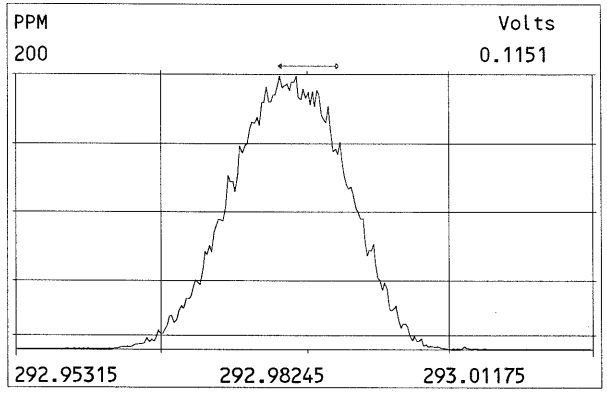


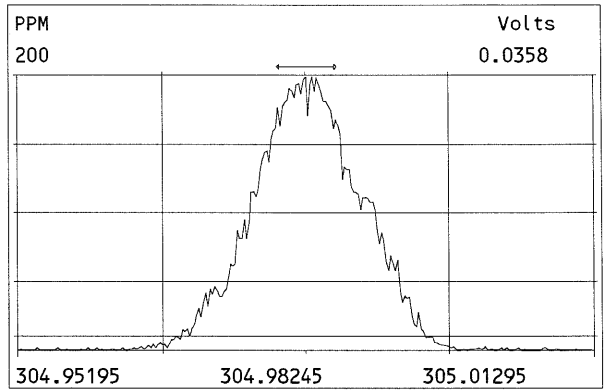


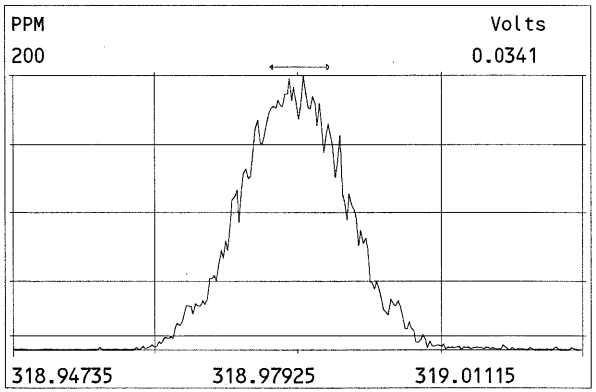


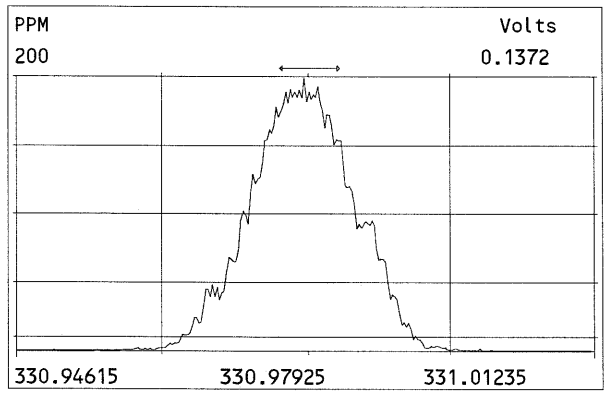
Peak Locate Examination:31-JUL-2018:10:11 File:31JUL18Z
Experiment:1668PCB Function:4 Reference:PFK

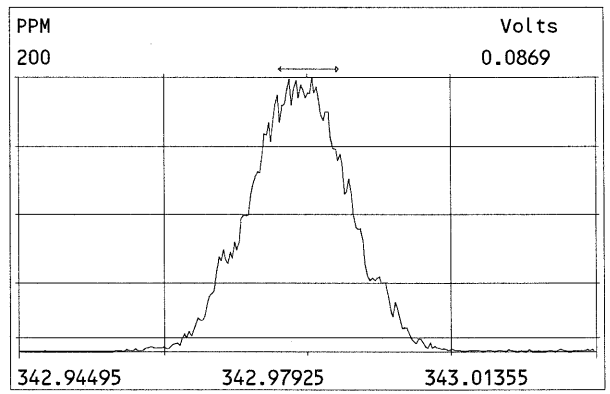


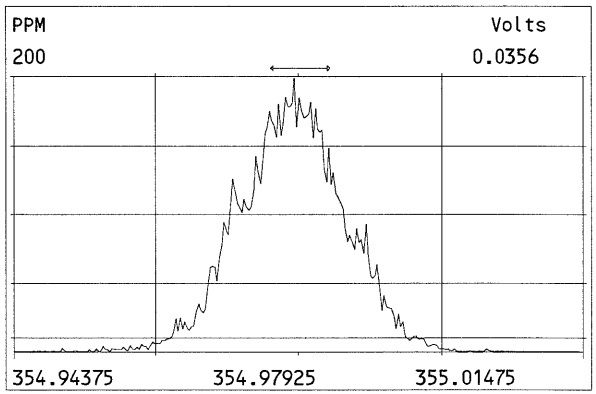


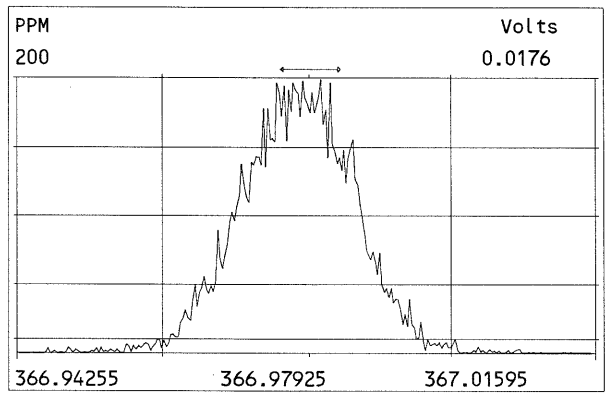


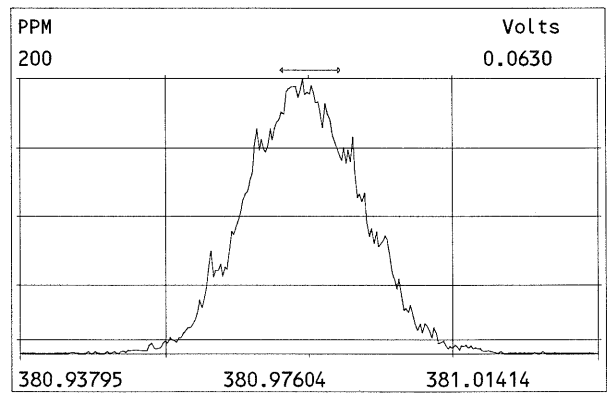




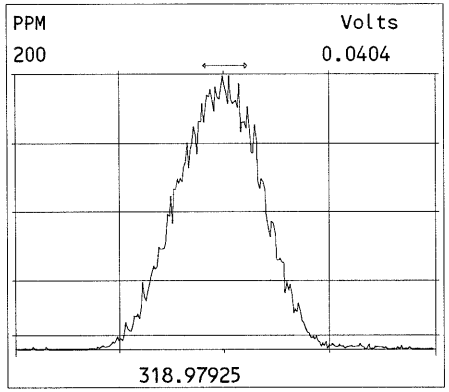


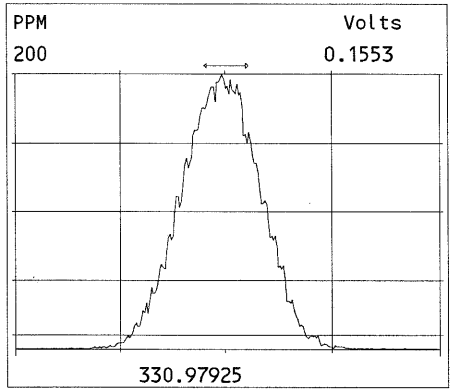


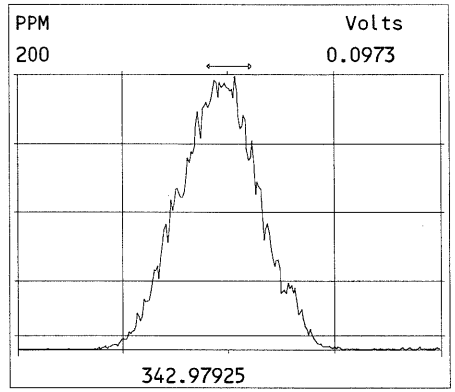


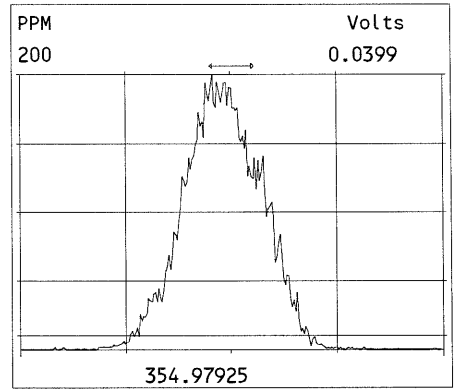


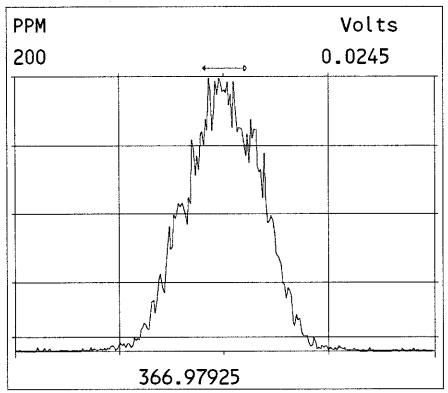
Peak Locate Examination:31-JUL-2018:10:11 File:31JUL18Z
Experiment:1668PCB Function:5 Reference:PFK

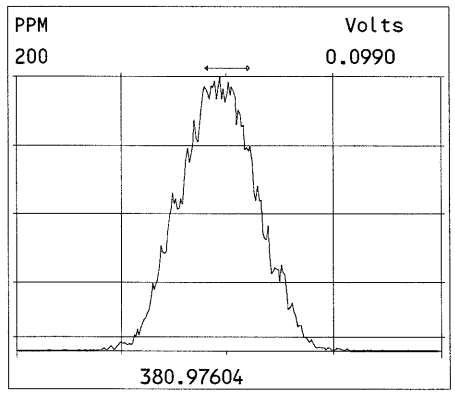


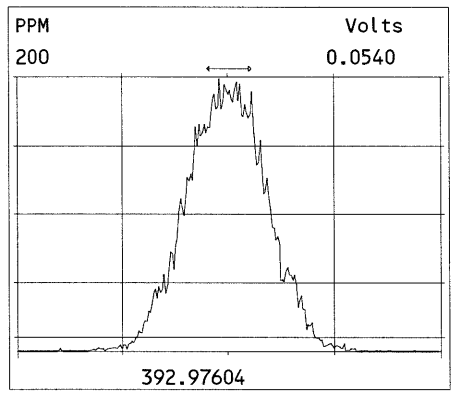


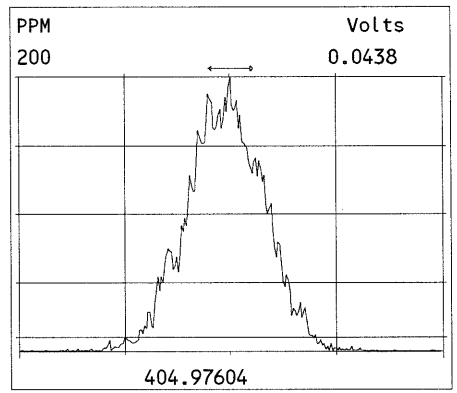


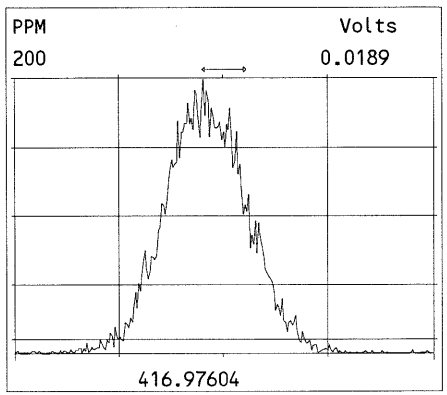


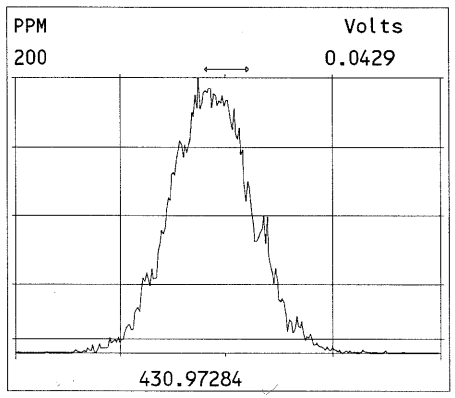


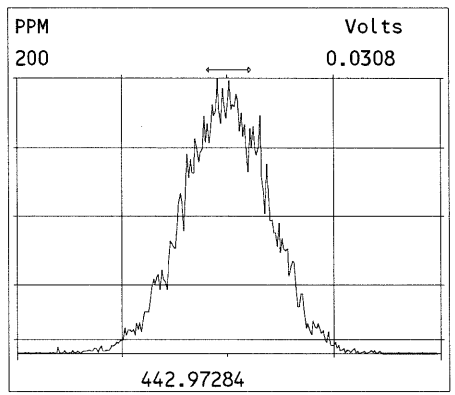




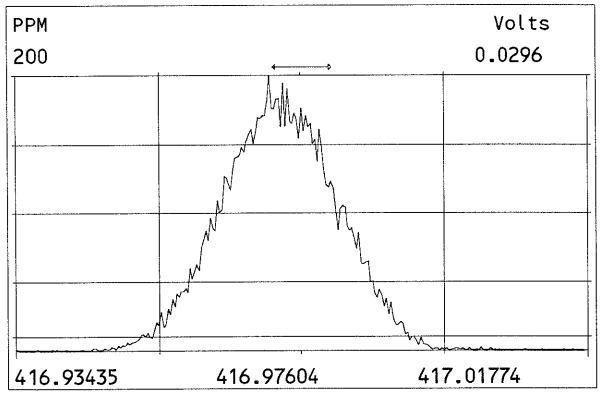


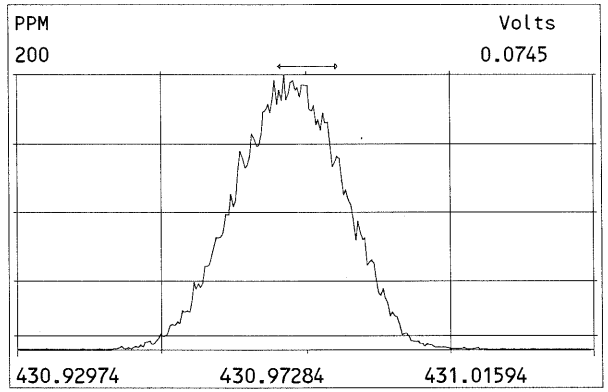


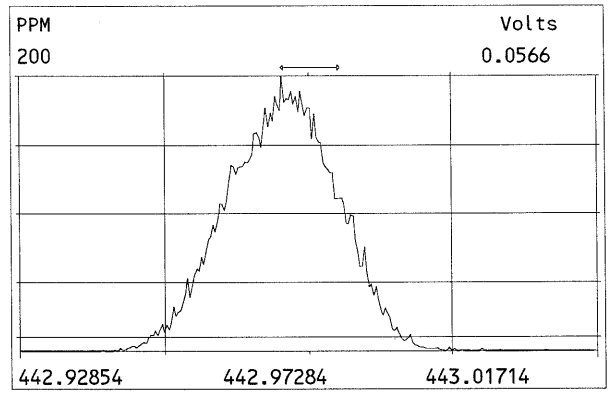


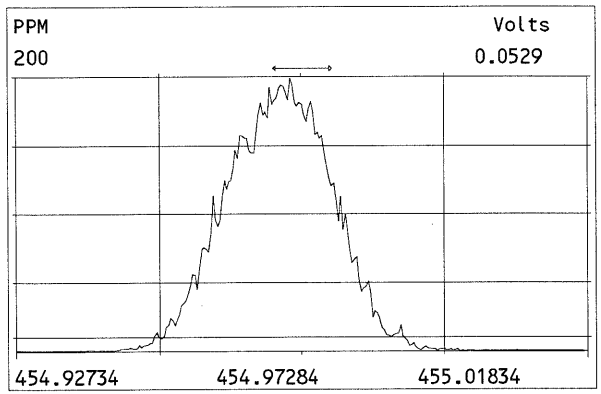


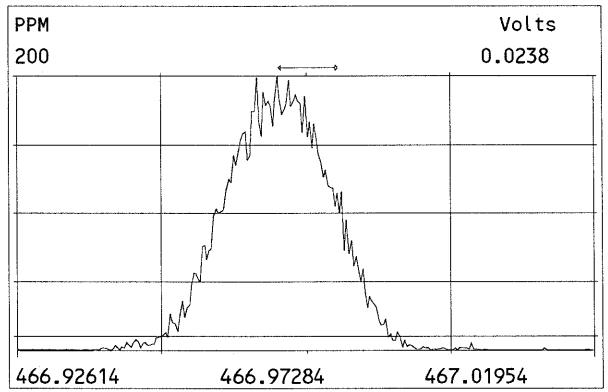
Peak Locate Examination:31-JUL-2018:10:12 File:31JUL18Z
Experiment:1668PCB Function:6 Reference:PFK

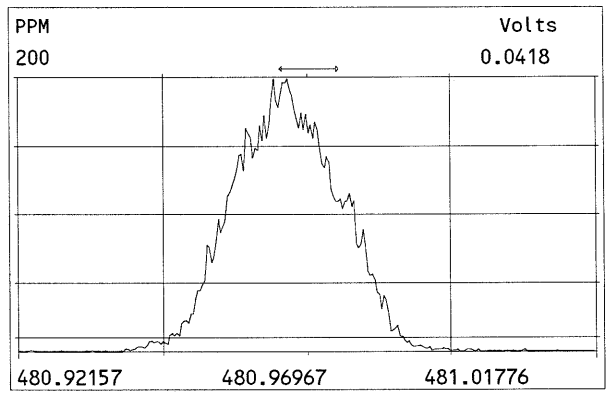


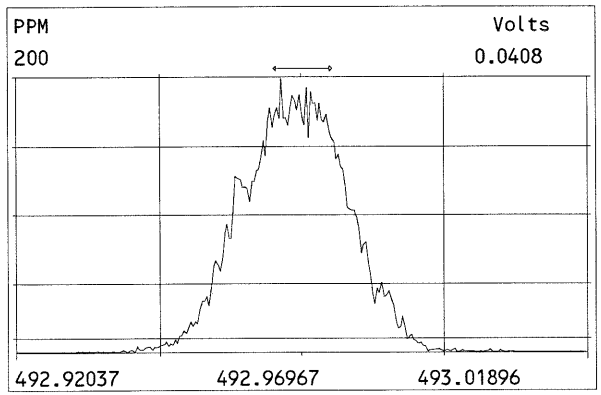


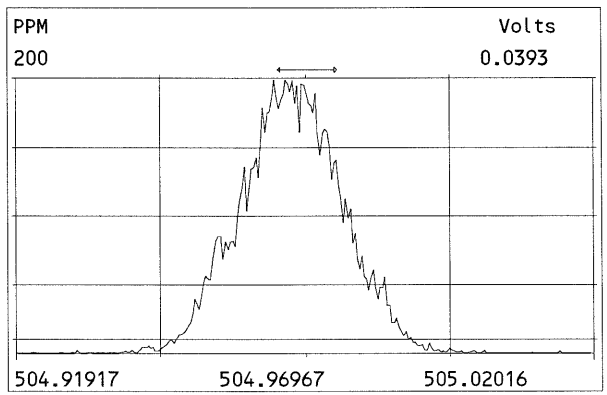


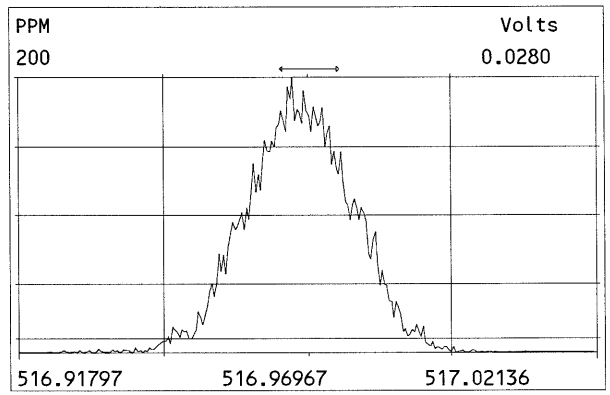




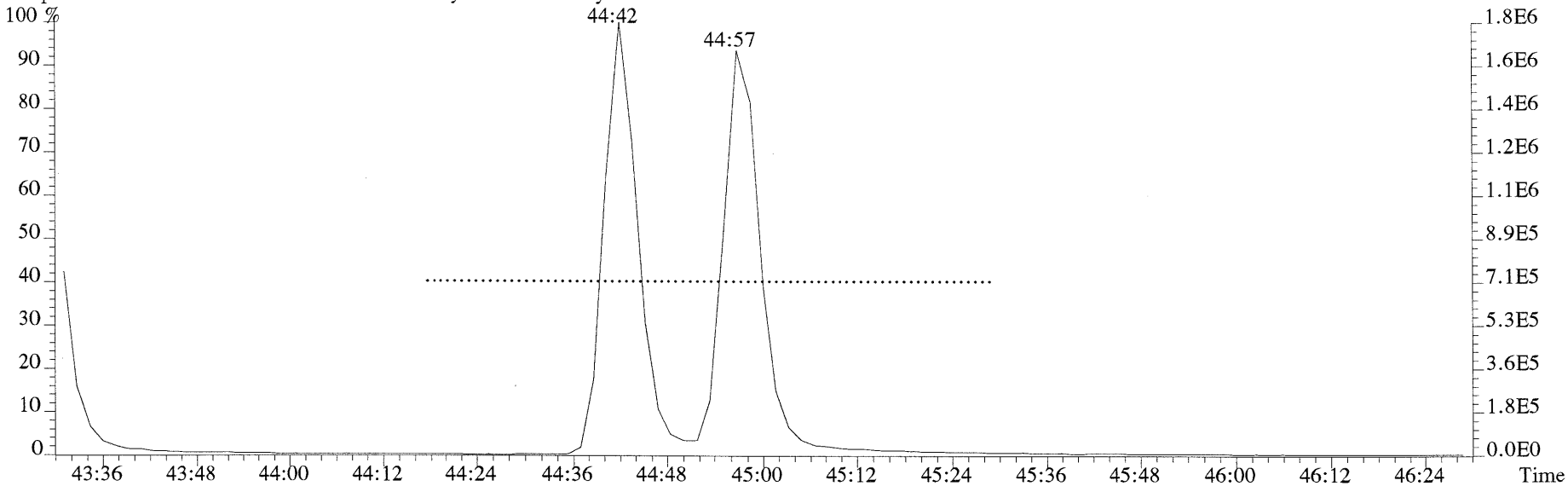




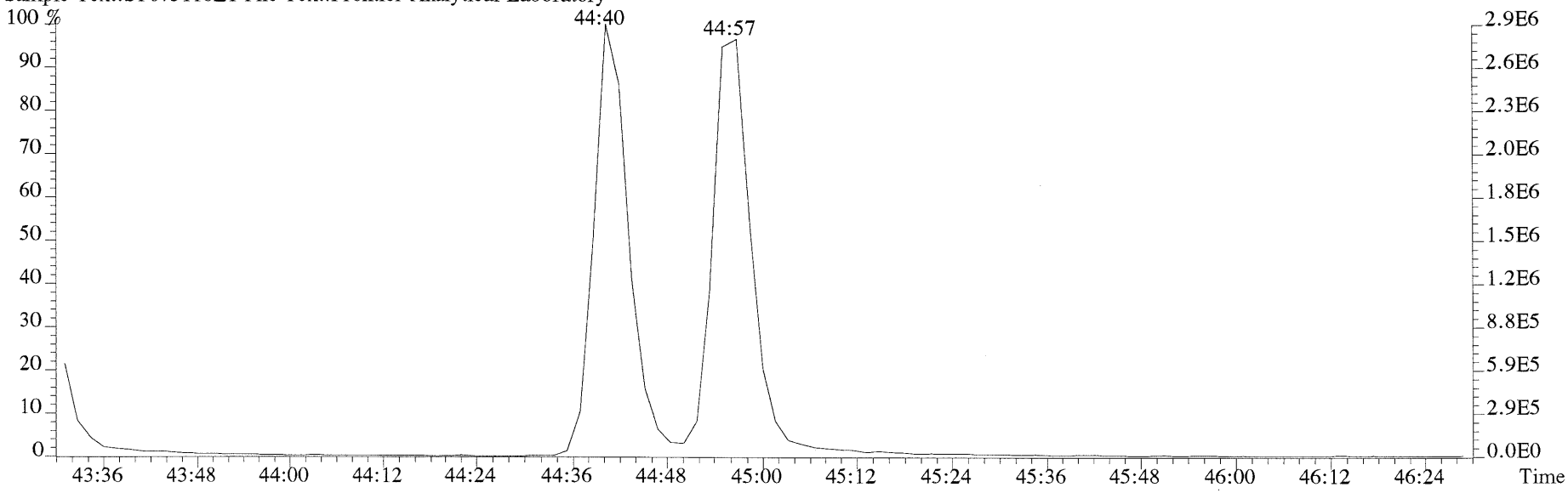




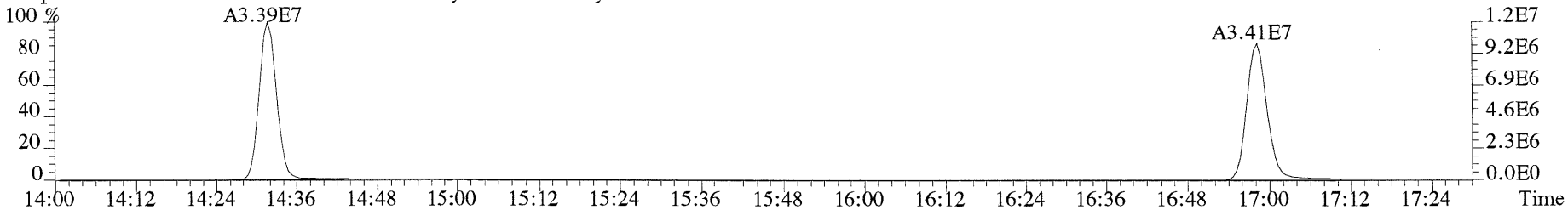
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



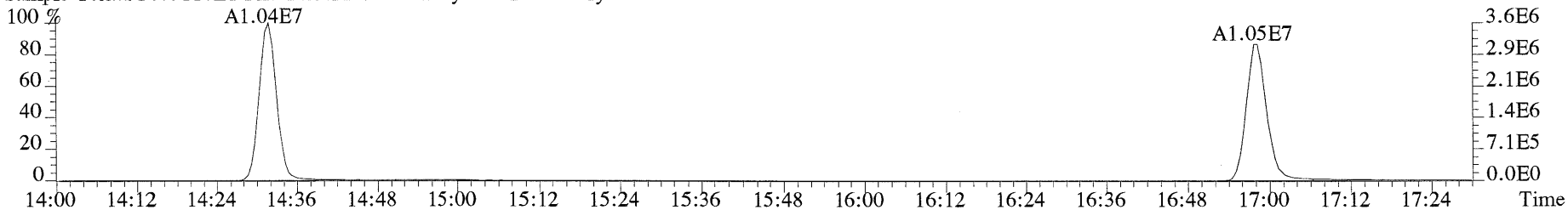
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



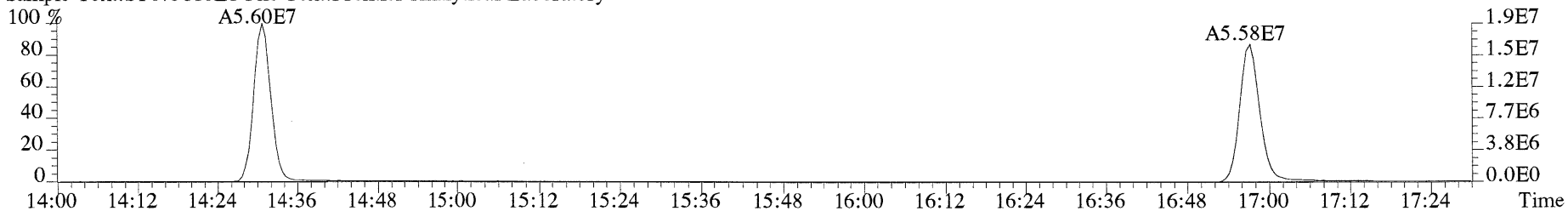
File:31JUL18Z #1-783 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



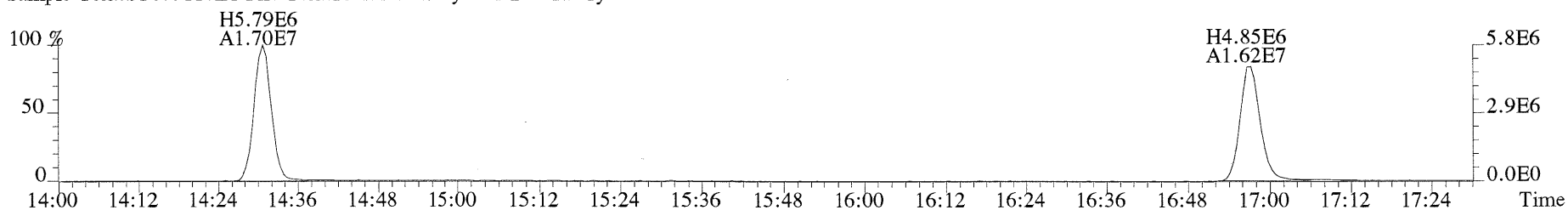
File:31JUL18Z #1-783 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



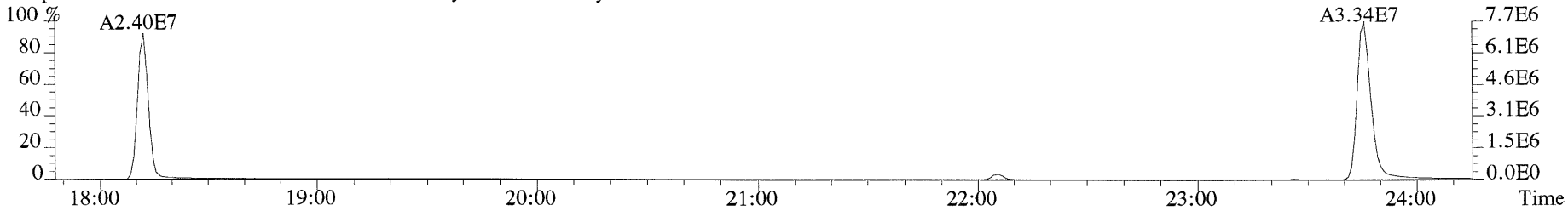
File:31JUL18Z #1-783 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



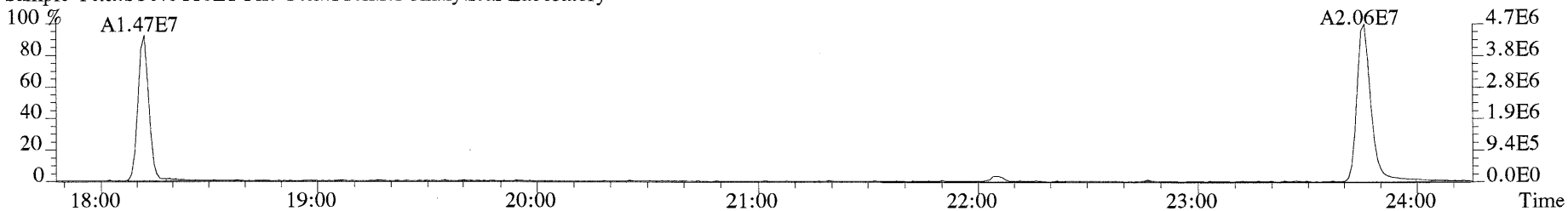
File:31JUL18Z #1-783 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



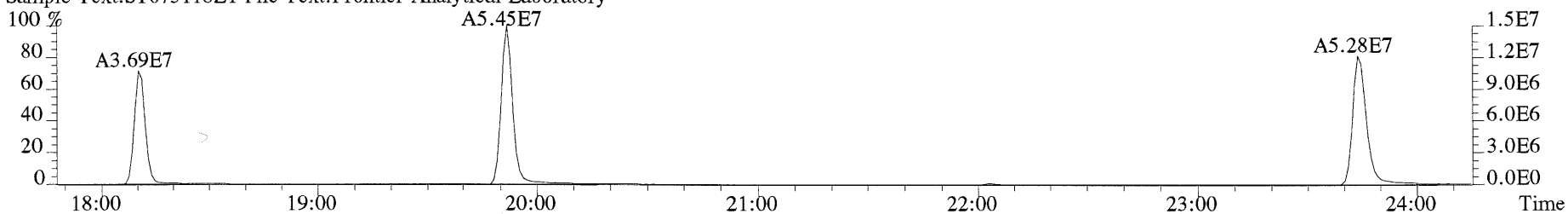
File:31JUL18Z #1-521 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



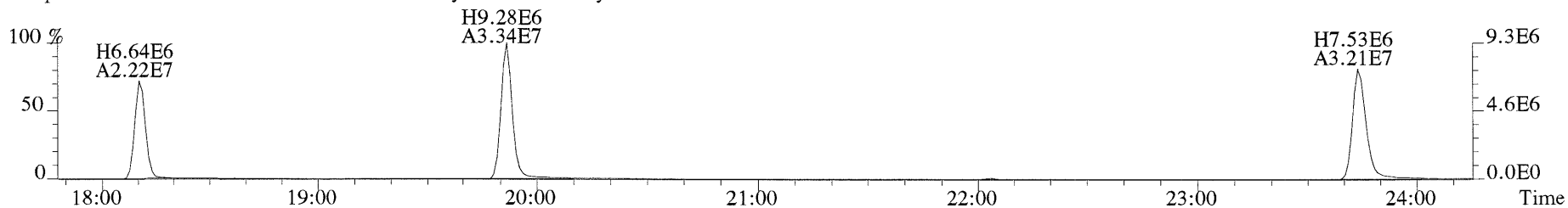
File:31JUL18Z #1-521 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



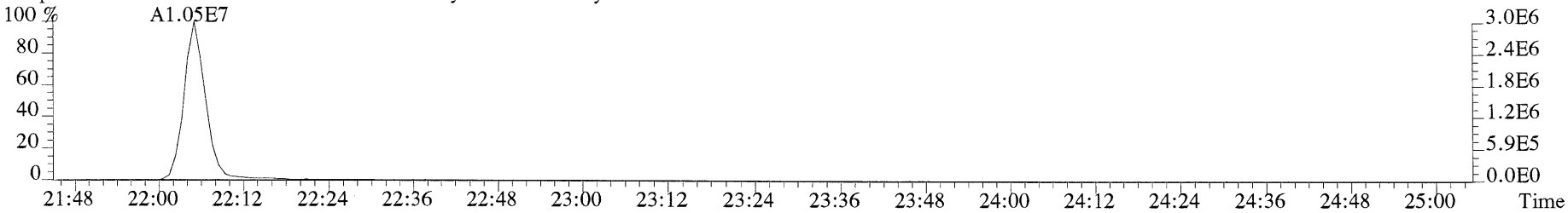
File:31JUL18Z #1-521 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



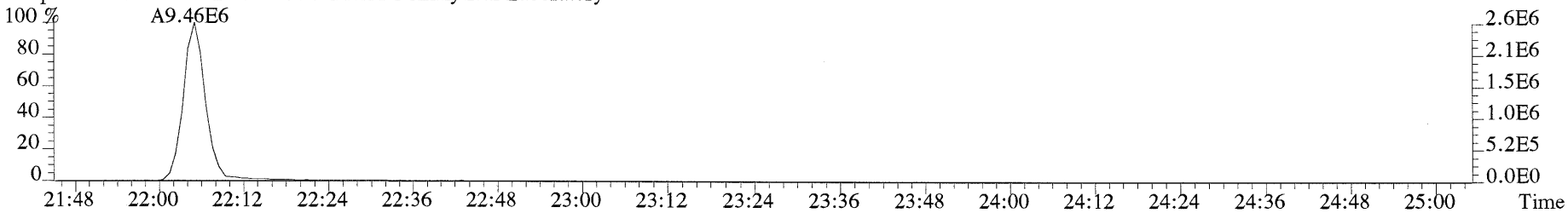
File:31JUL18Z #1-521 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



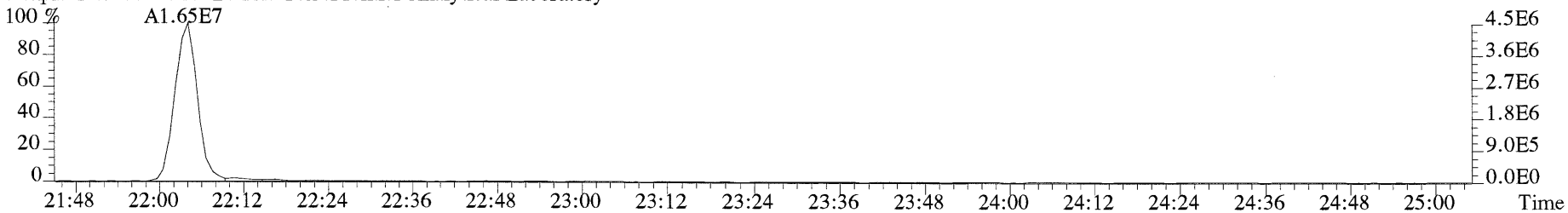
File:31JUL18Z #1-521 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



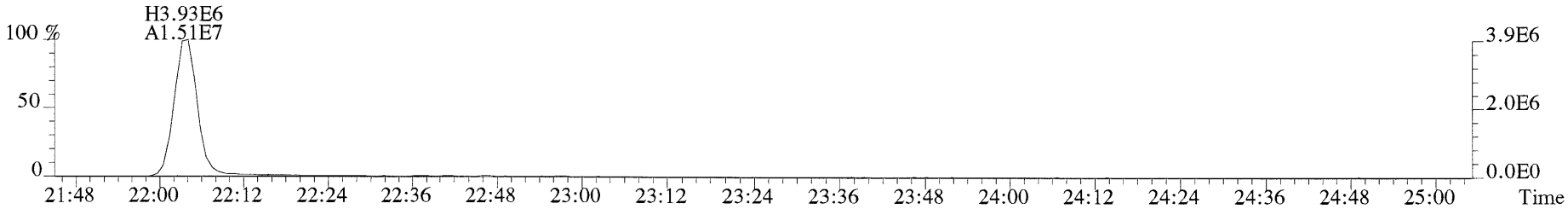
File:31JUL18Z #1-521 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



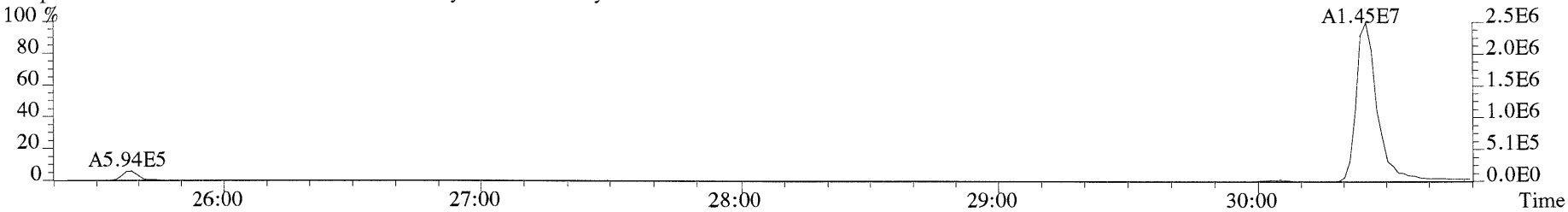
File:31JUL18Z #1-521 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



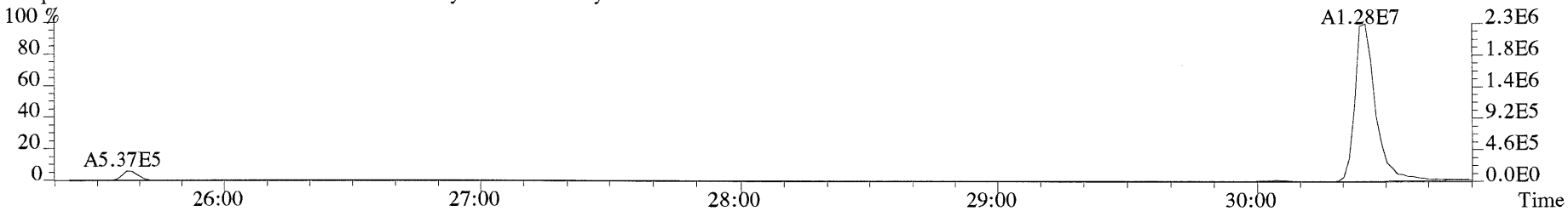
File:31JUL18Z #1-521 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



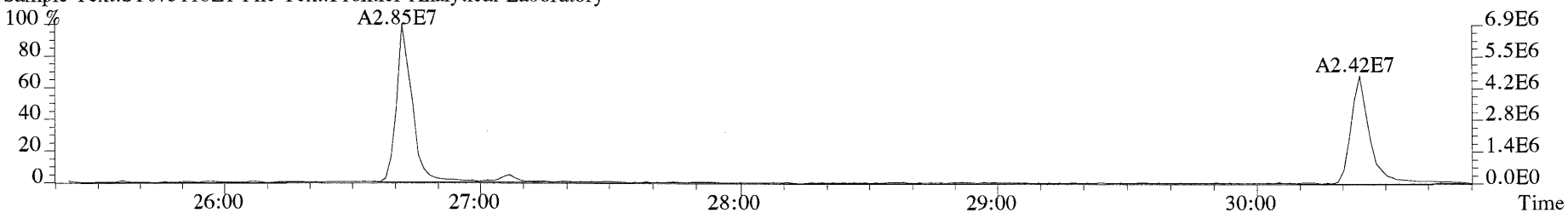
File:31JUL18Z #1-401 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



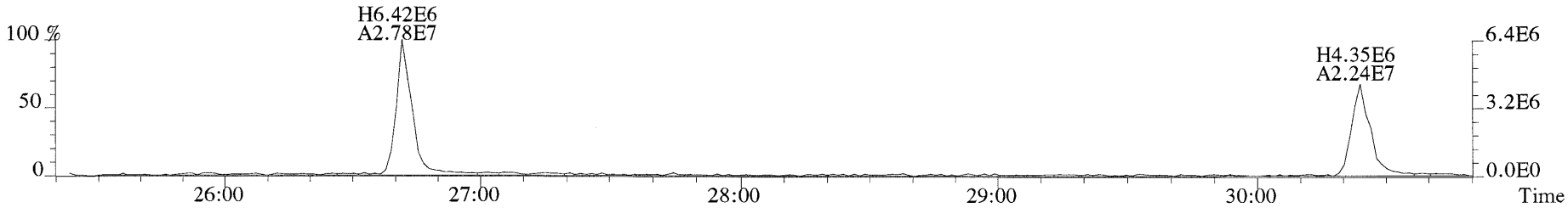
File:31JUL18Z #1-401 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



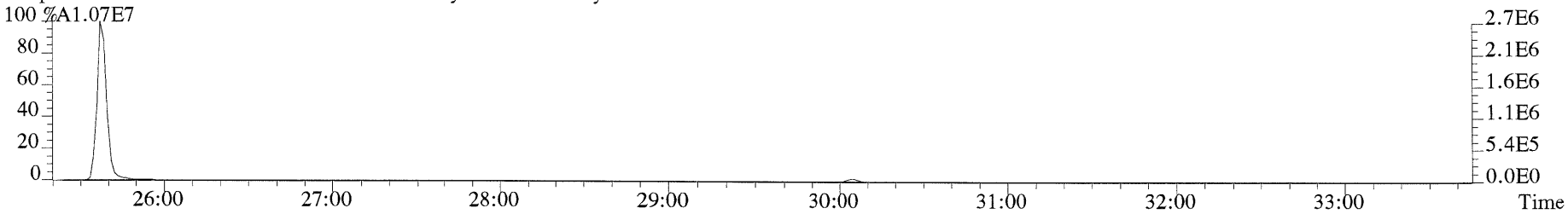
File:31JUL18Z #1-401 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



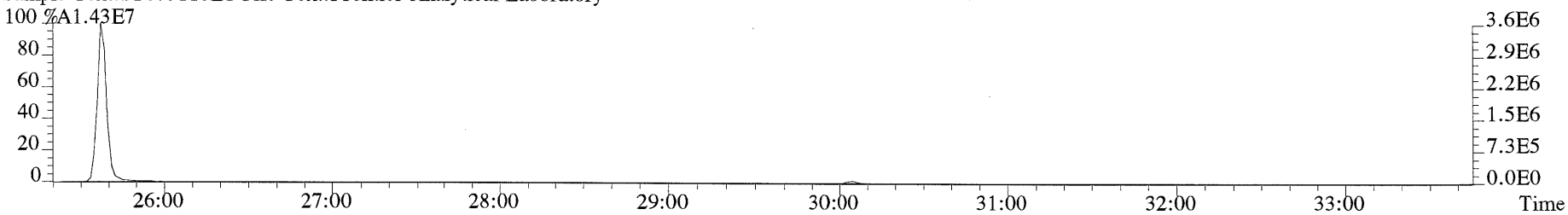
File:31JUL18Z #1-401 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



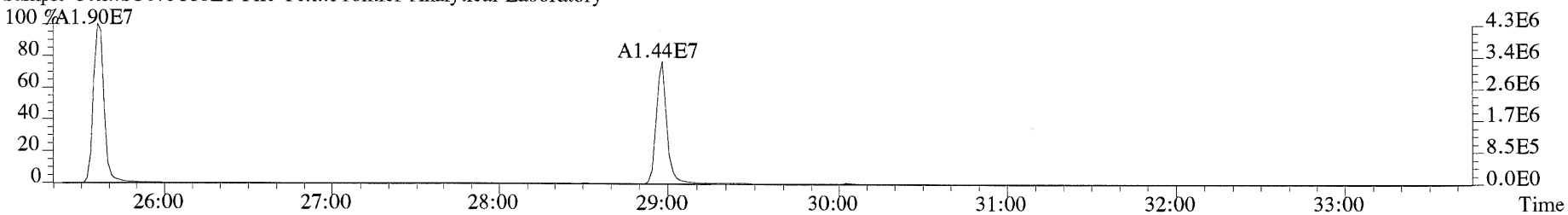
File:31JUL18Z #1-401 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



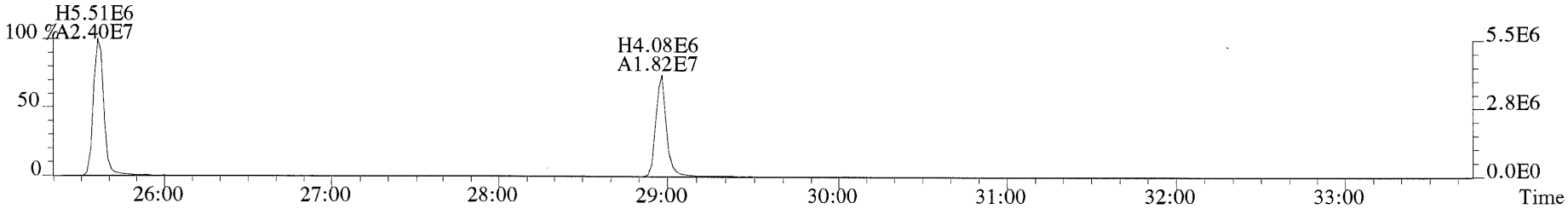
File:31JUL18Z #1-401 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



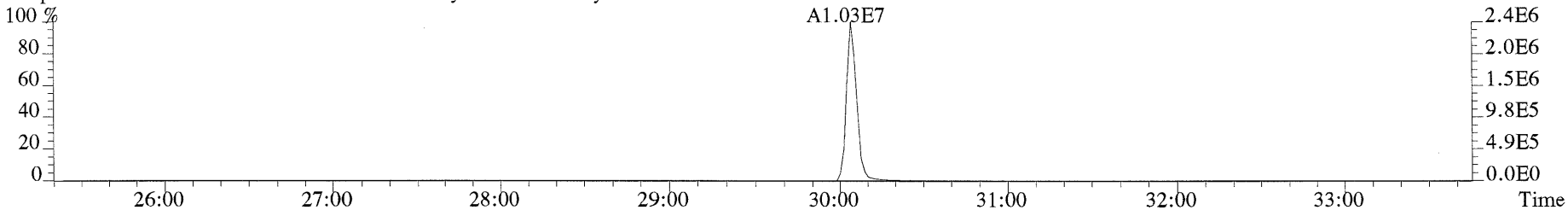
File:31JUL18Z #1-401 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



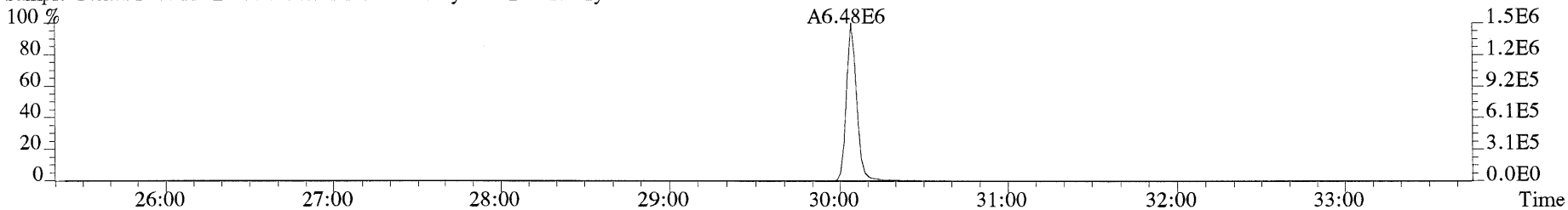
File:31JUL18Z #1-401 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



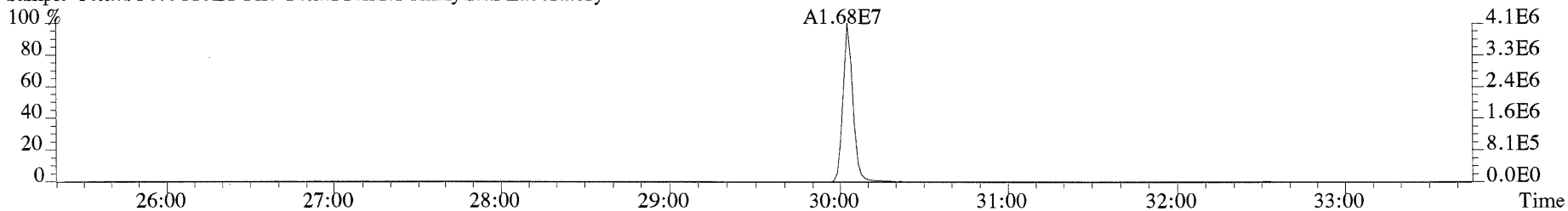
File:31JUL18Z #1-401 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



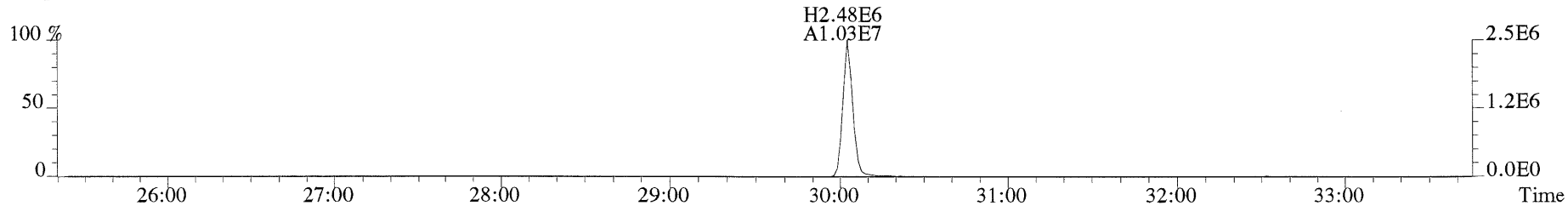
File:31JUL18Z #1-401 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



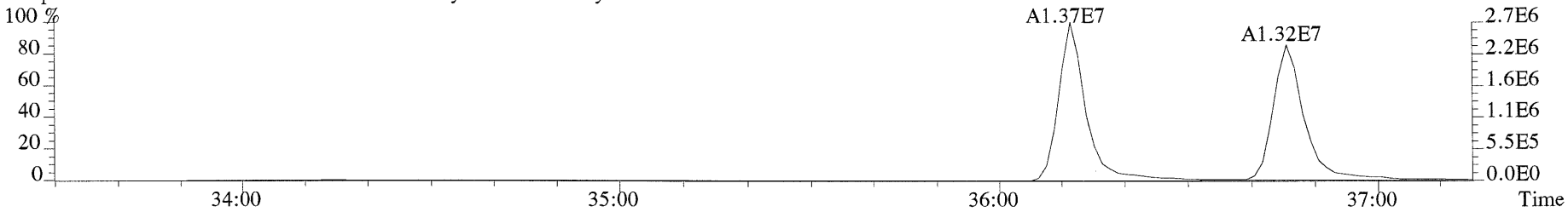
File:31JUL18Z #1-401 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



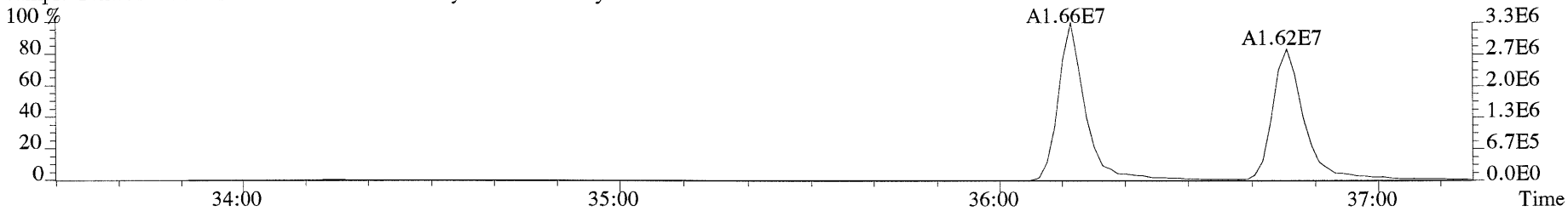
File:31JUL18Z #1-401 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



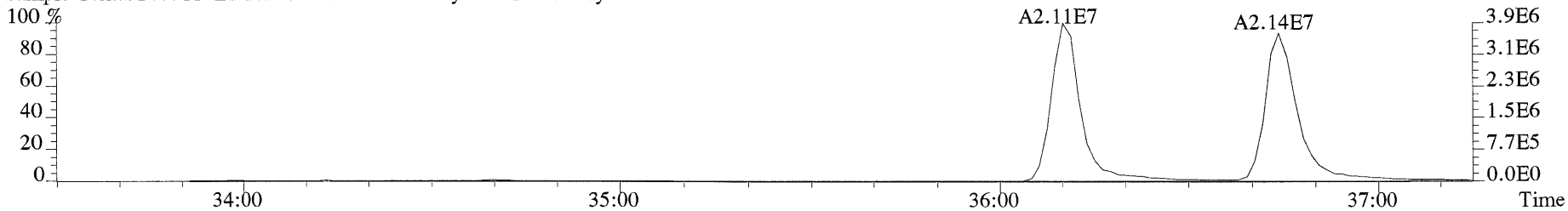
File:31JUL18Z #1-183 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



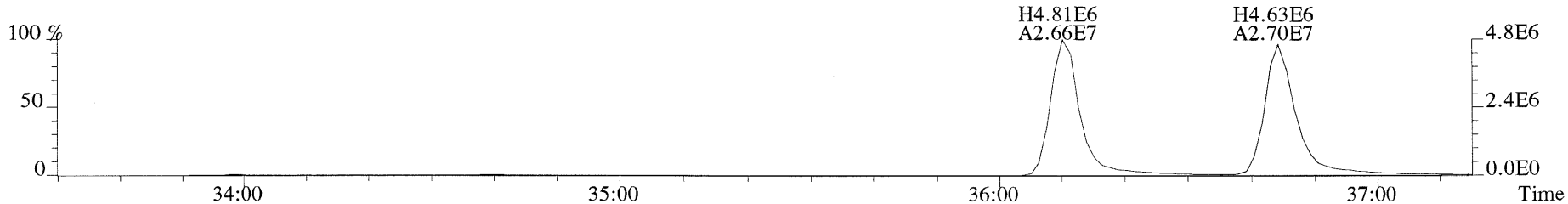
File:31JUL18Z #1-183 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



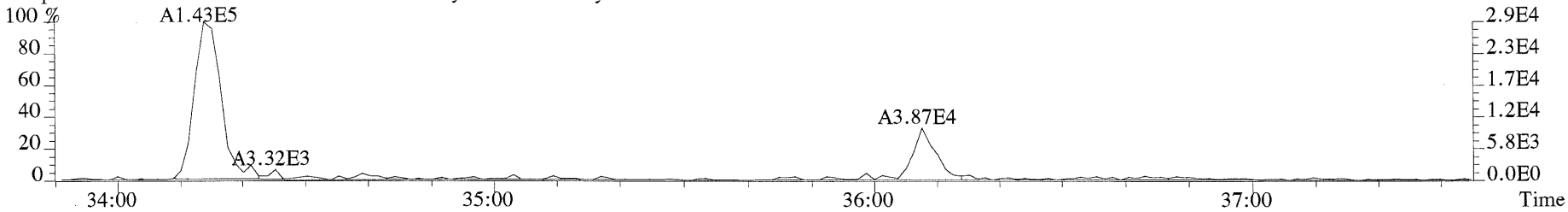
File:31JUL18Z #1-183 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



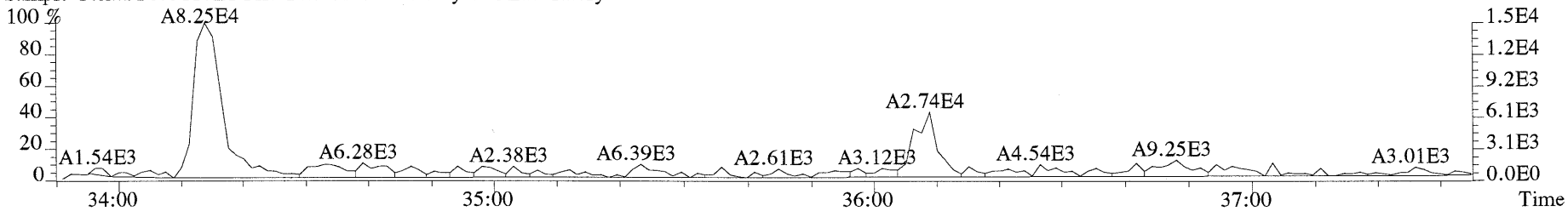
File:31JUL18Z #1-183 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



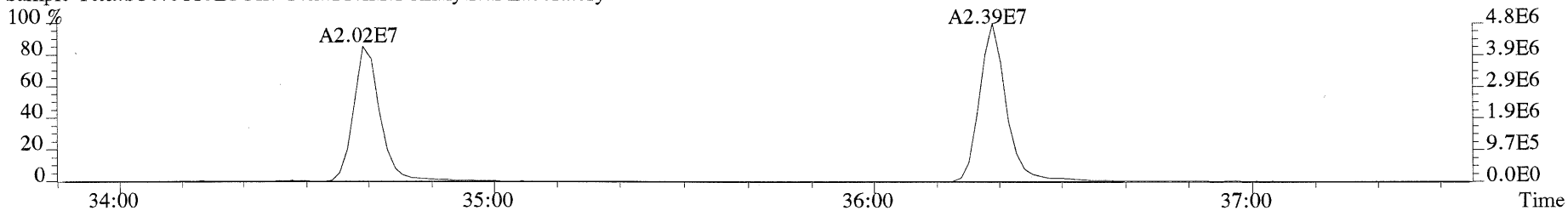
File:31JUL18Z #1-183 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



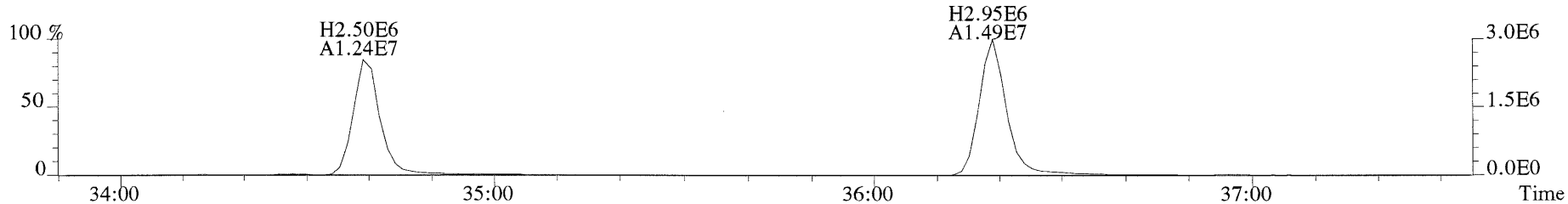
File:31JUL18Z #1-183 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



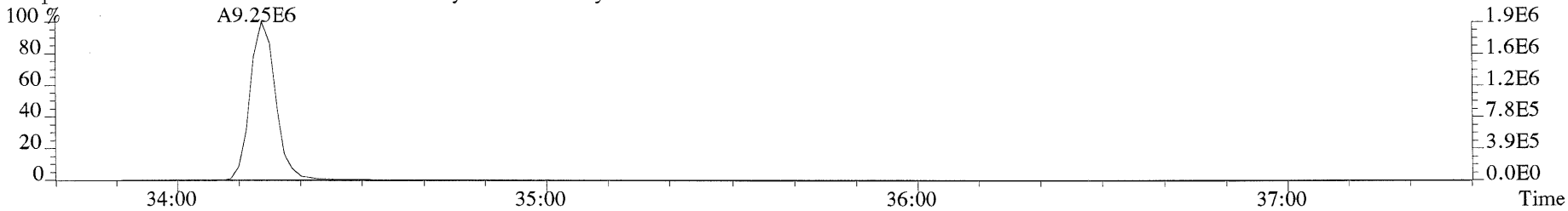
File:31JUL18Z #1-183 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



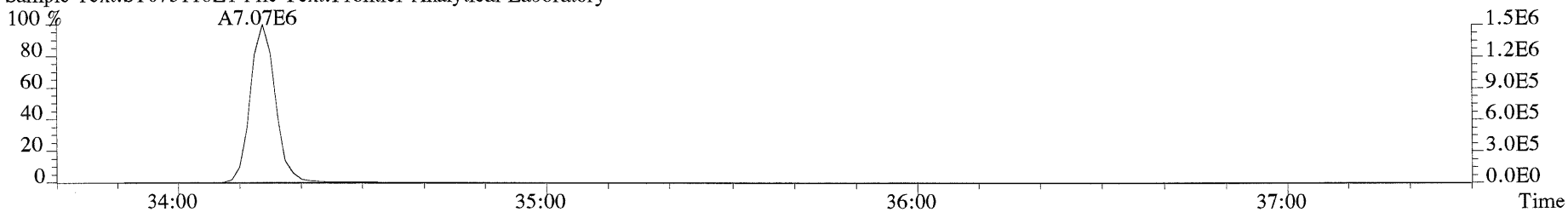
File:31JUL18Z #1-183 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



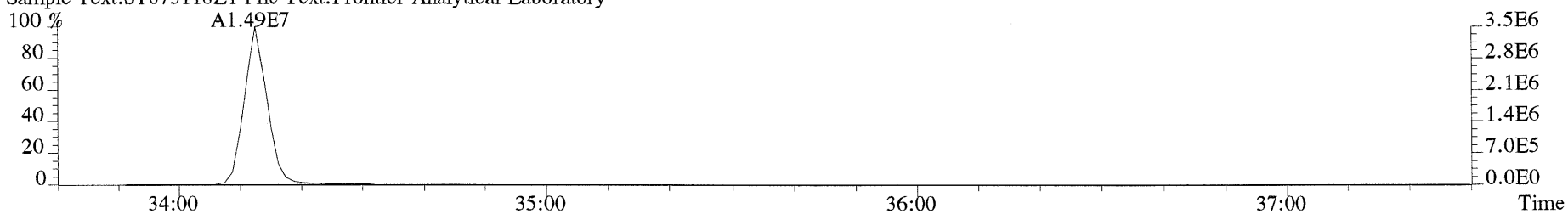
File:31JUL18Z #1-183 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



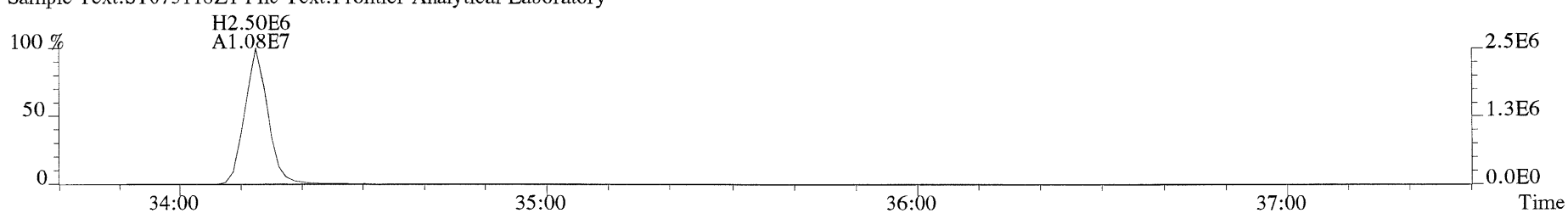
File:31JUL18Z #1-183 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



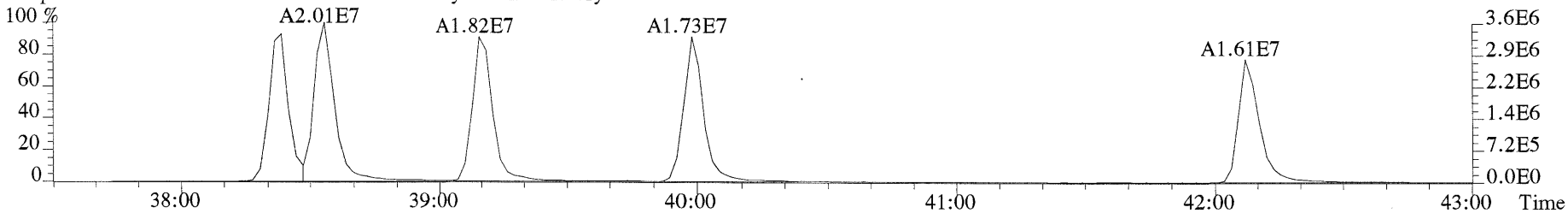
File:31JUL18Z #1-183 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



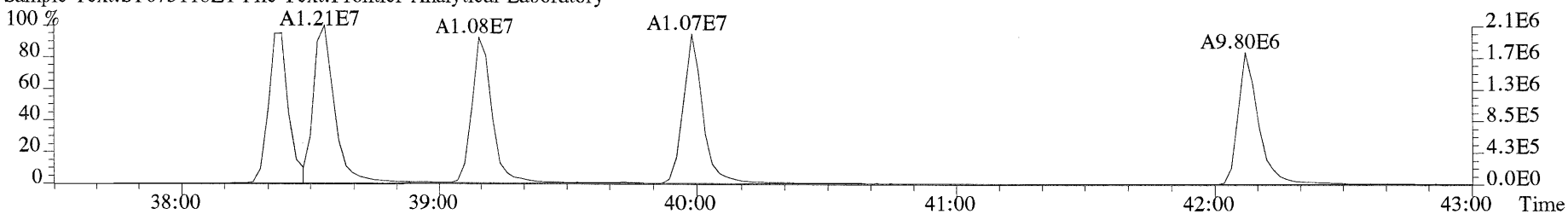
File:31JUL18Z #1-183 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



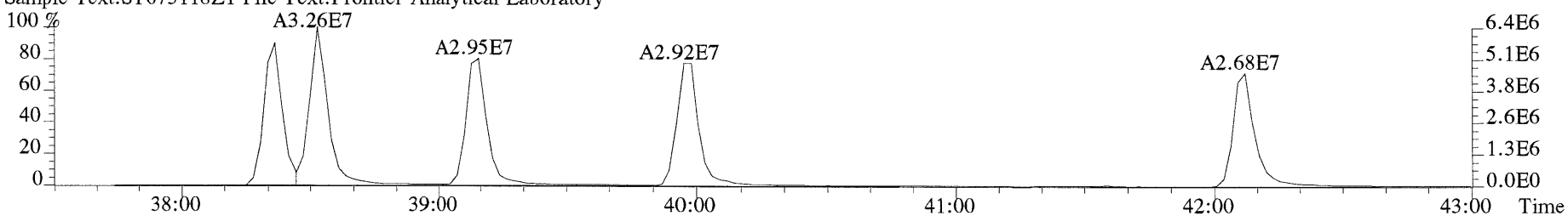
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



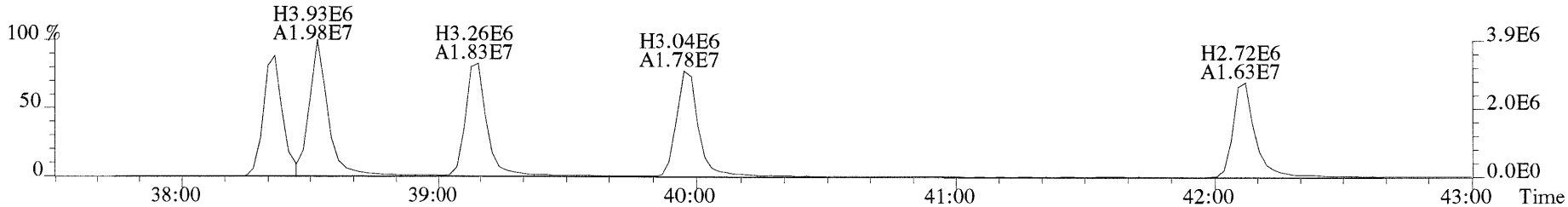
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



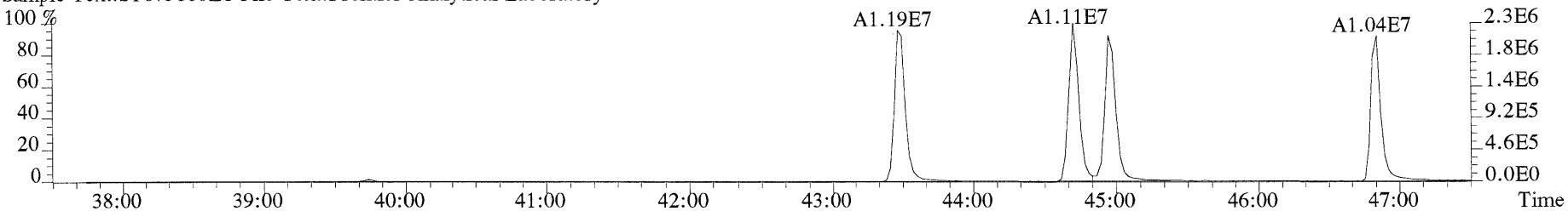
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



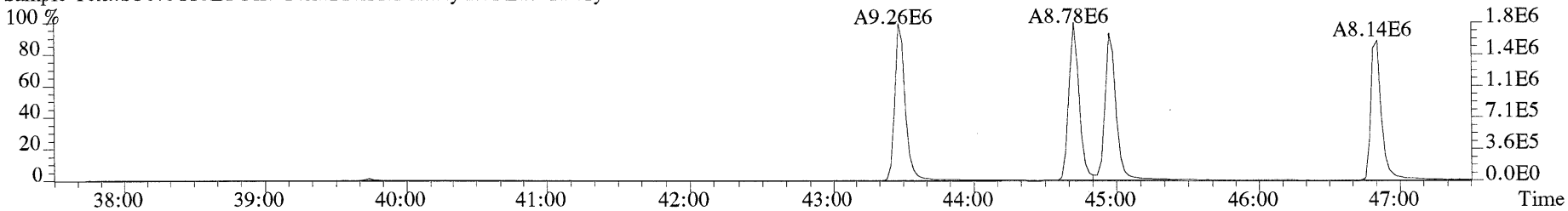
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



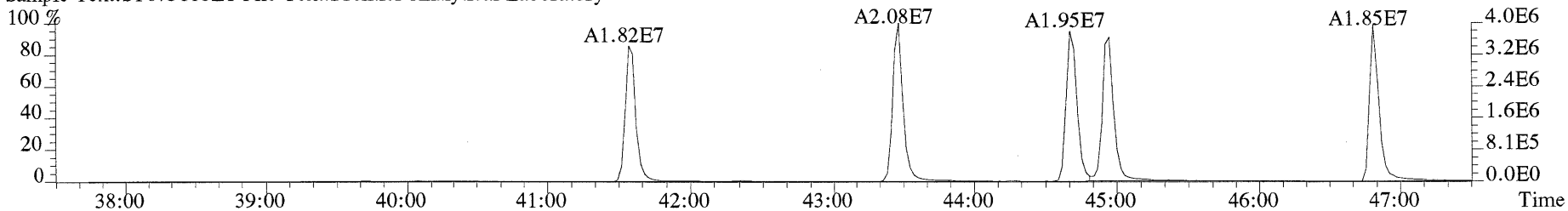
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



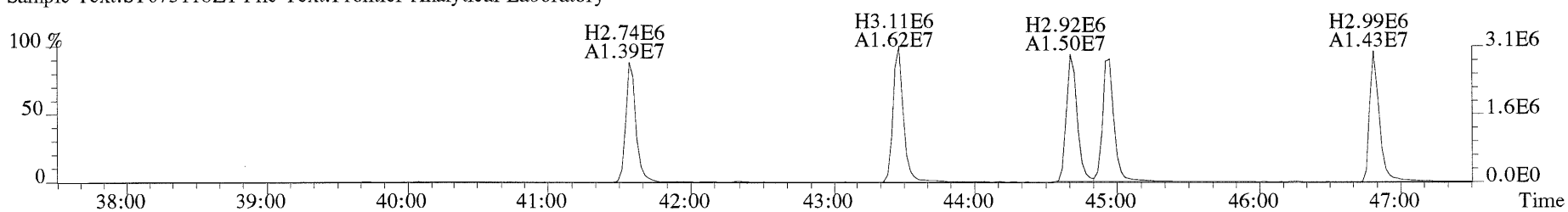
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



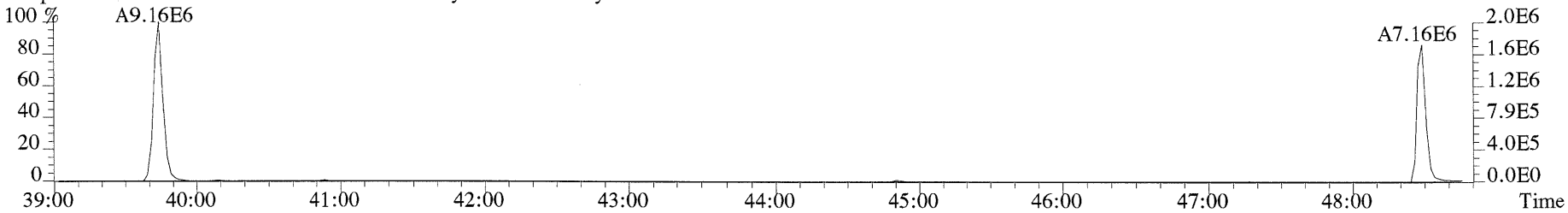
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



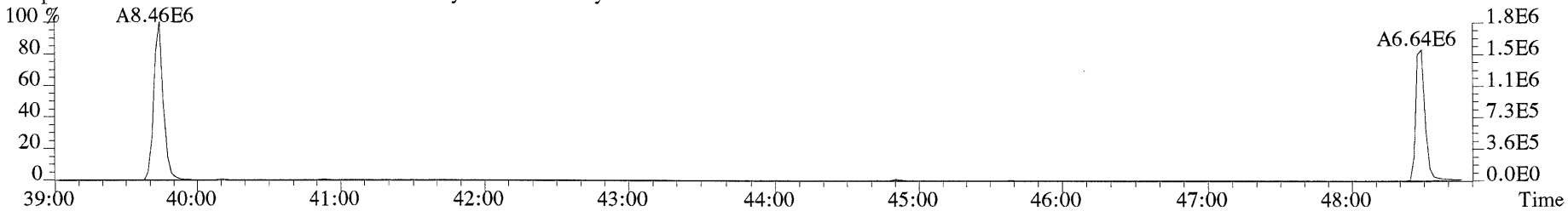
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



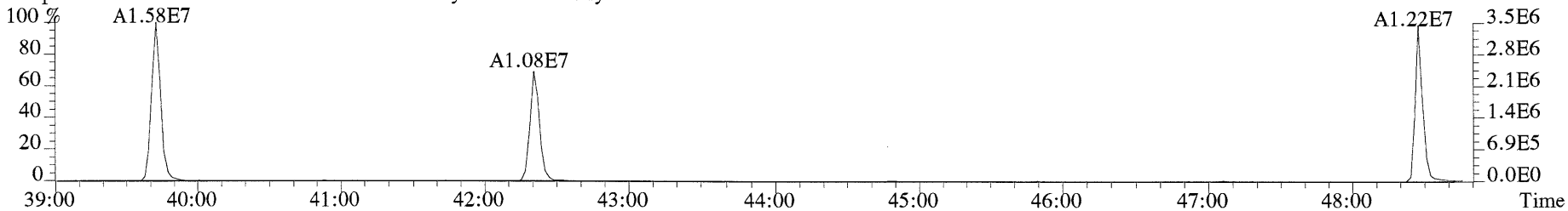
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



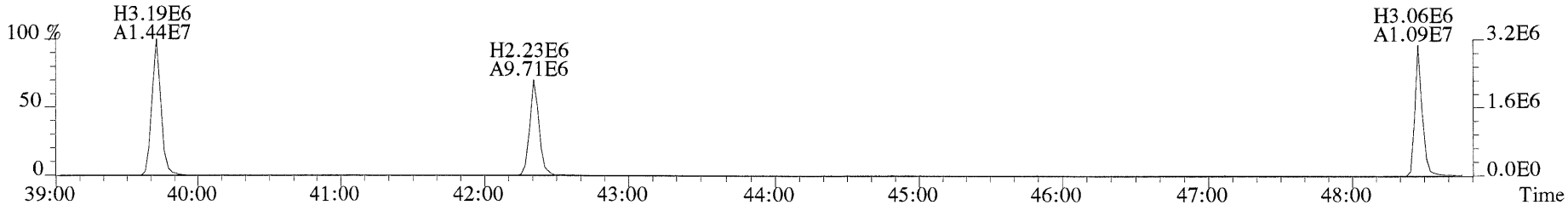
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



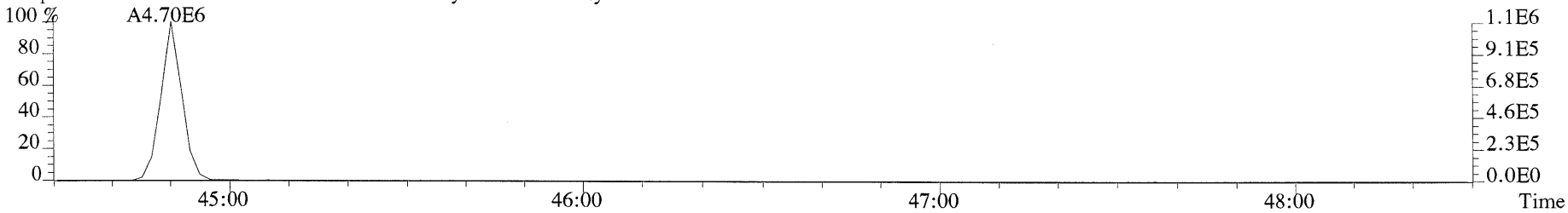
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



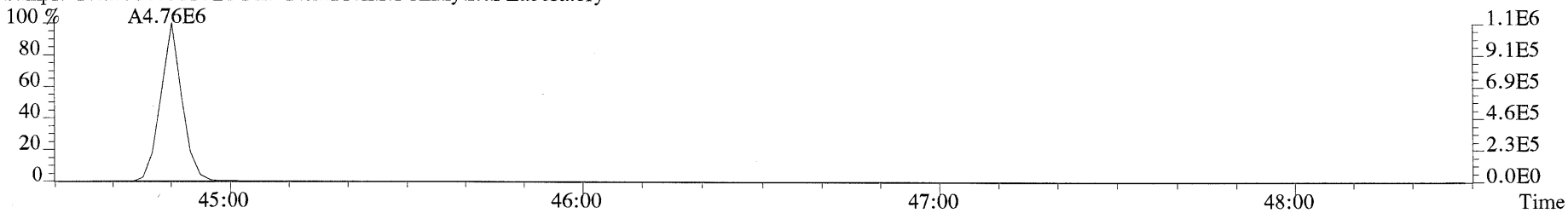
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



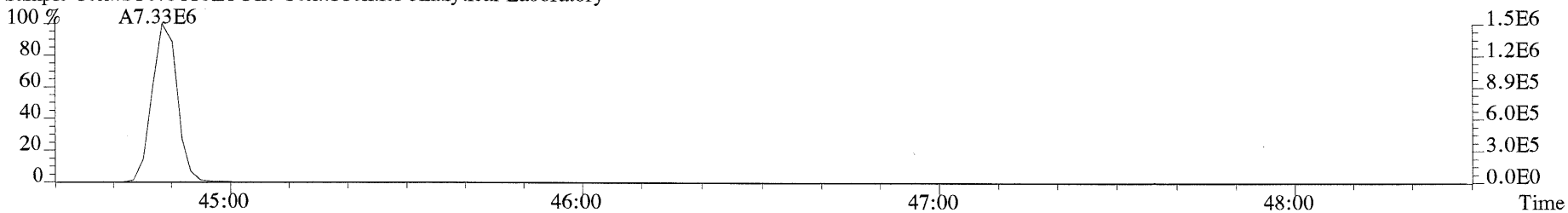
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



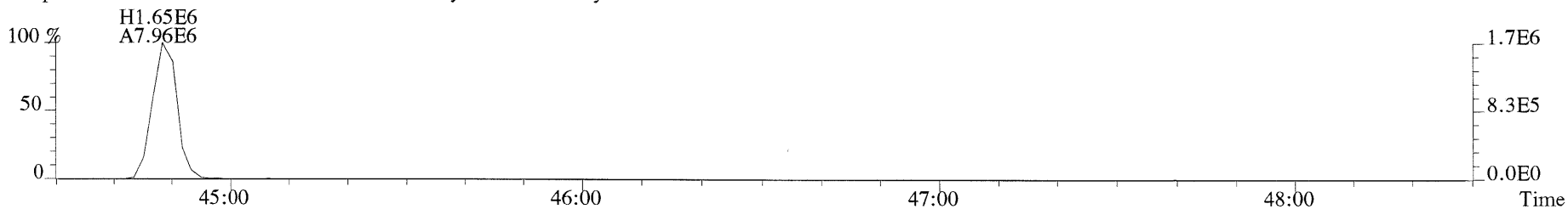
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



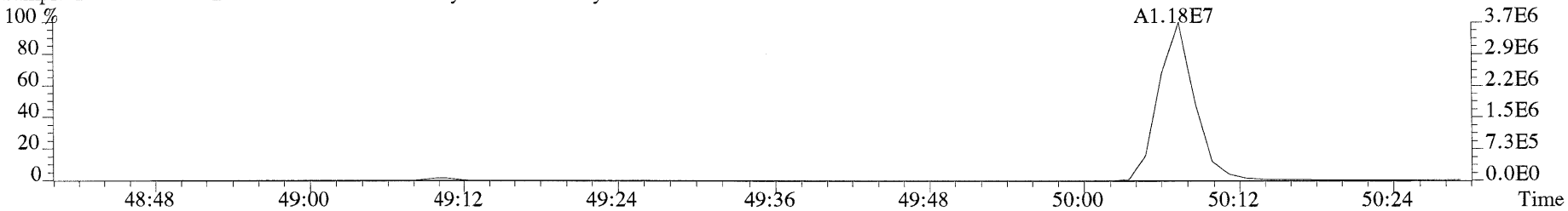
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



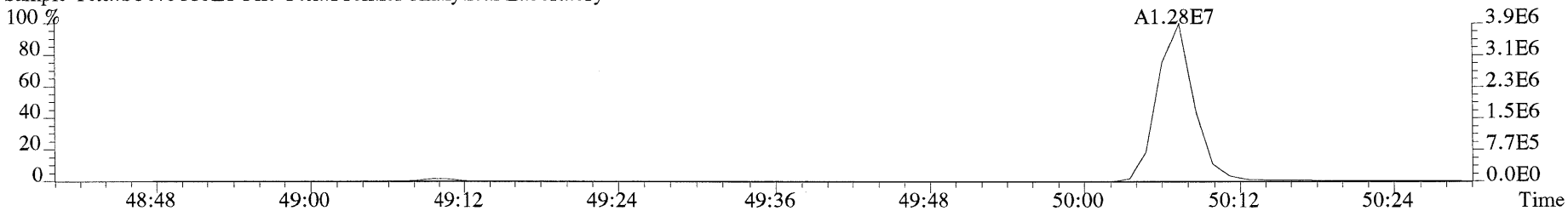
File:31JUL18Z #1-403 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



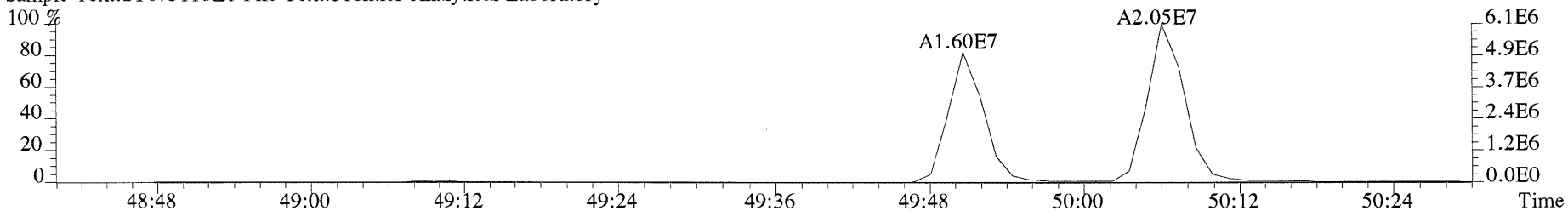
File:31JUL18Z #1-314 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



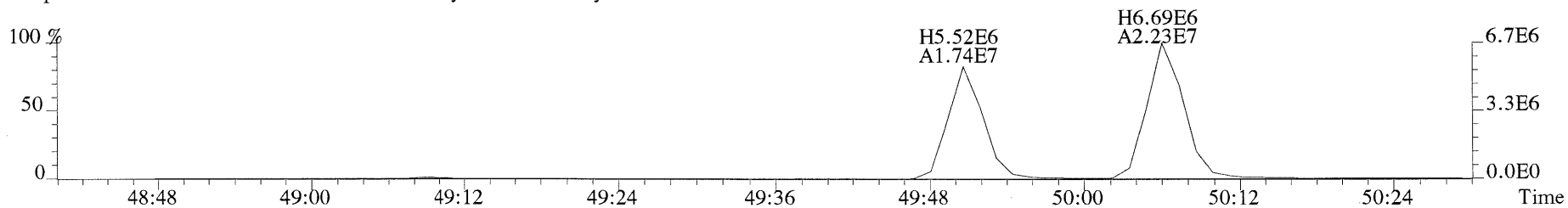
File:31JUL18Z #1-314 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



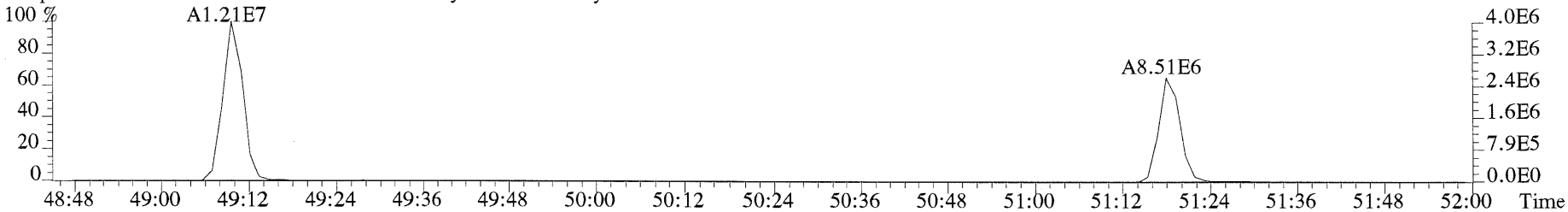
File:31JUL18Z #1-314 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



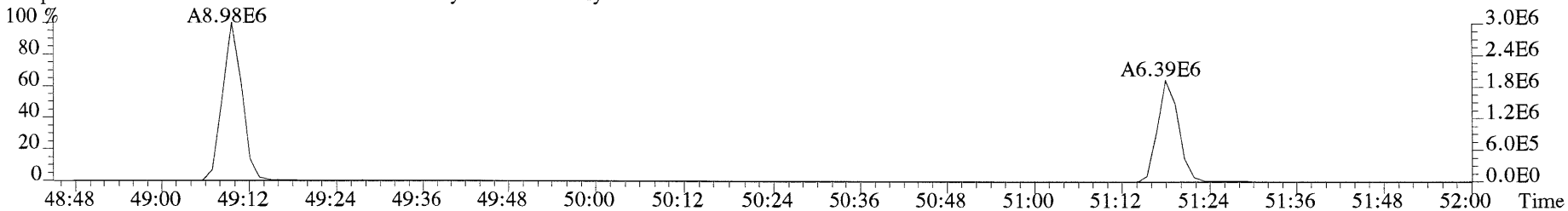
File:31JUL18Z #1-314 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



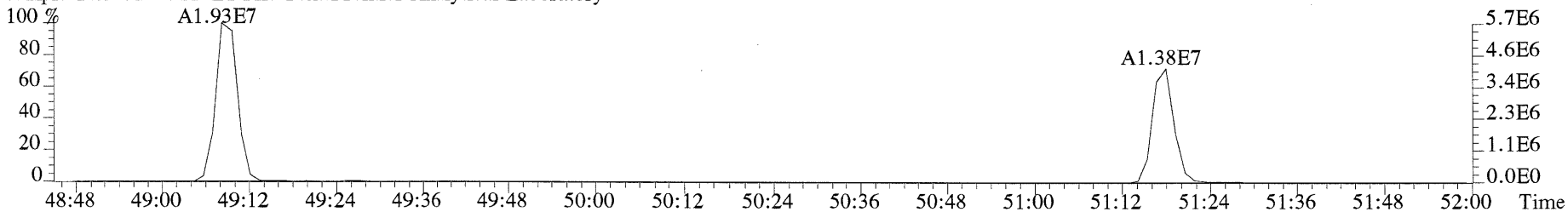
File:31JUL18Z #1-315 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



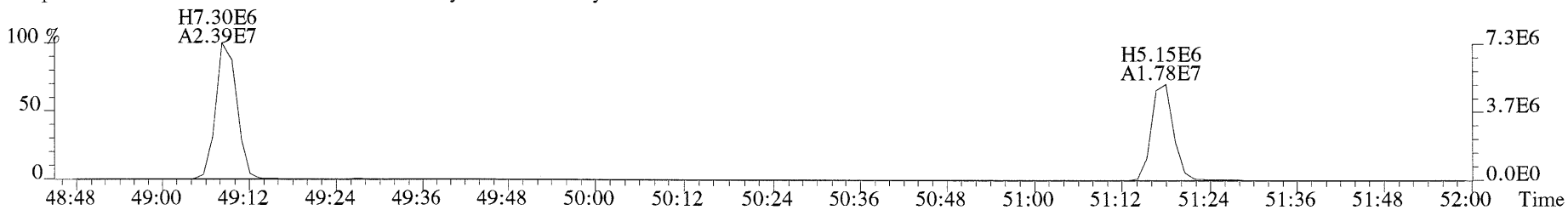
File:31JUL18Z #1-315 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



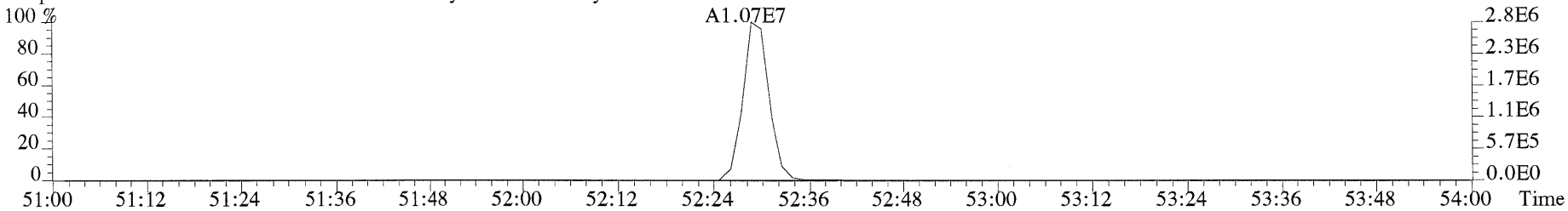
File:31JUL18Z #1-315 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



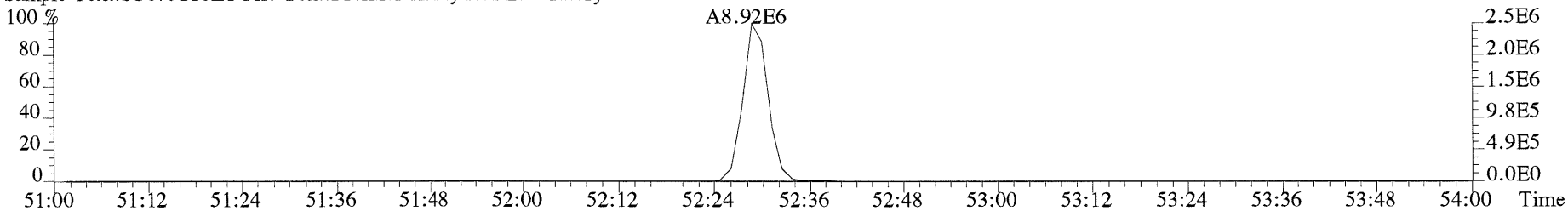
File:31JUL18Z #1-315 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



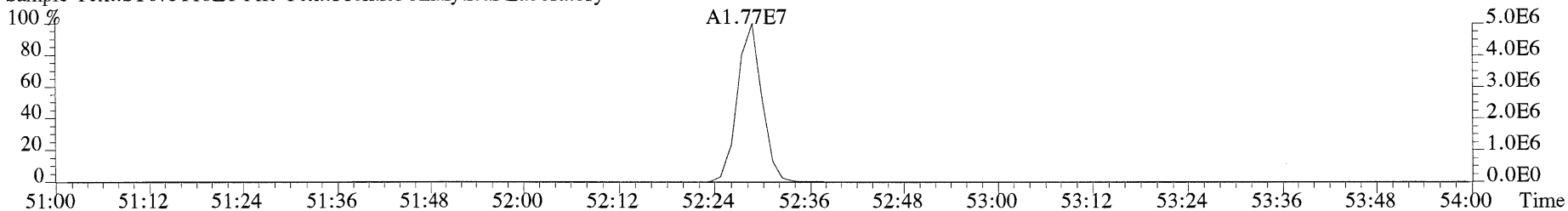
File:31JUL18Z #1-315 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



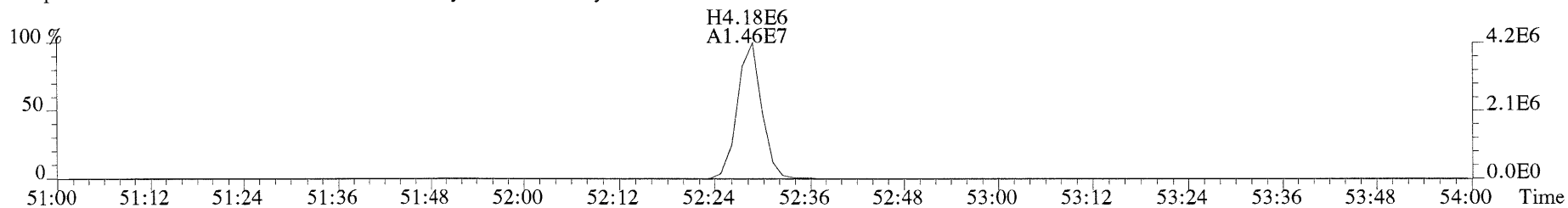
File:31JUL18Z #1-315 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory



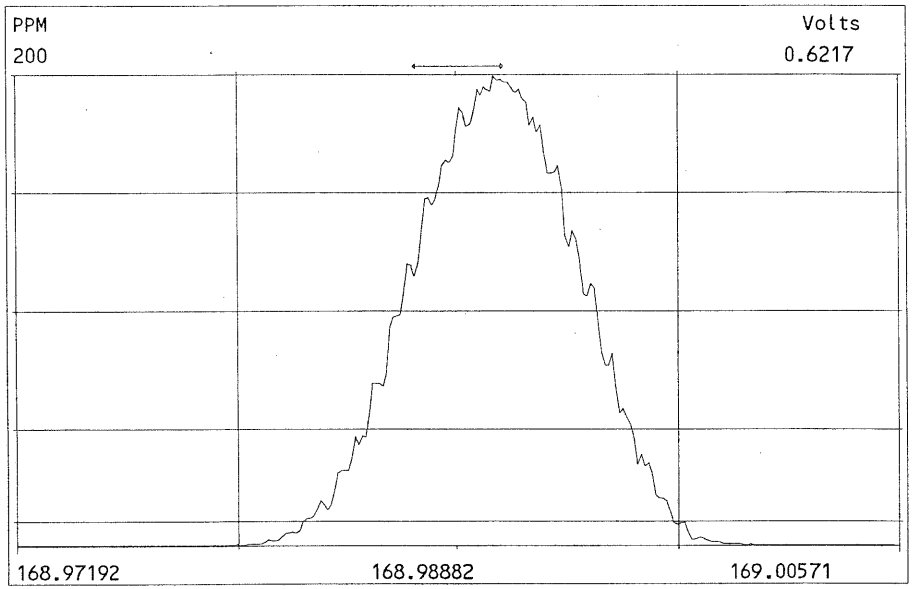
File:31JUL18Z #1-315 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory

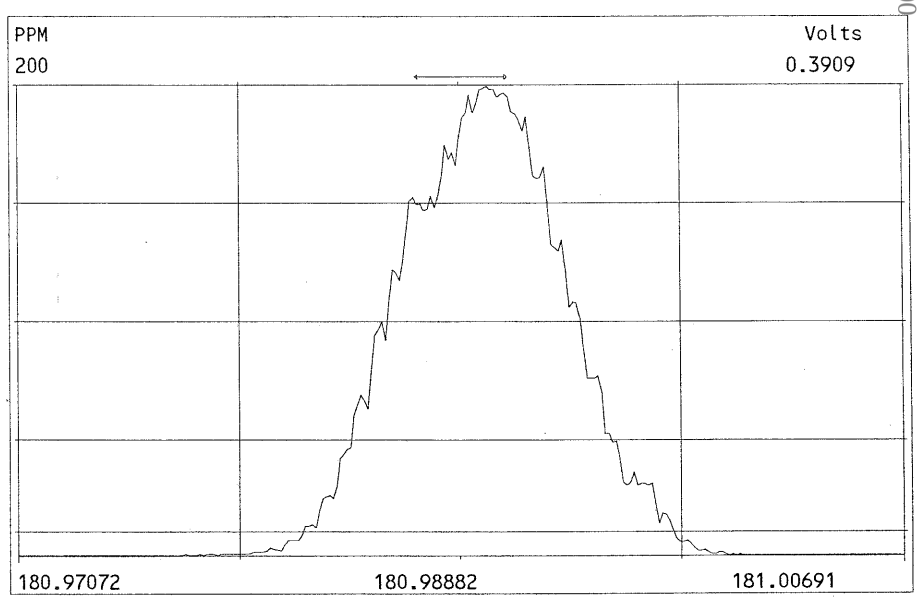


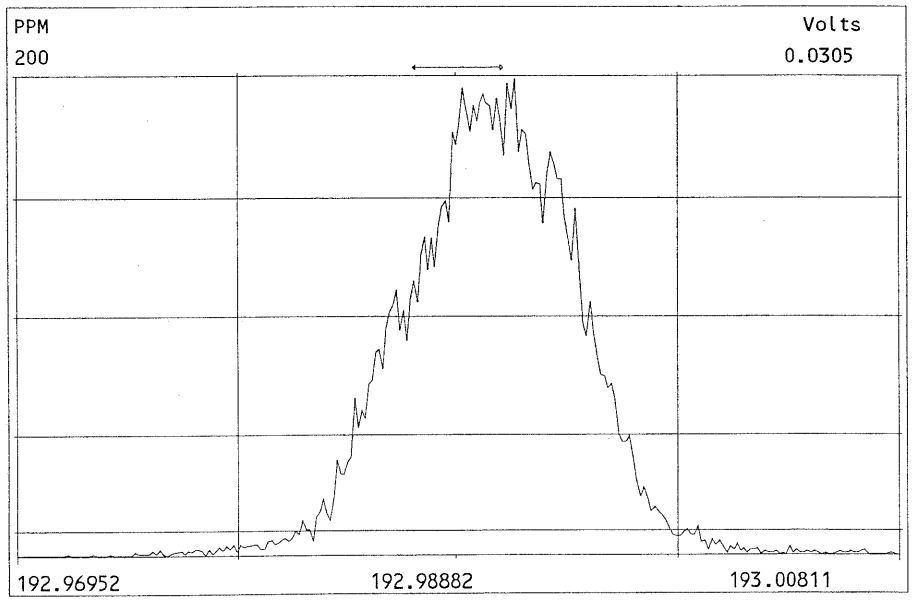
File:31JUL18Z #1-315 Acq:31-JUL-2018 10:12:49 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z1 File Text:Frontier Analytical Laboratory

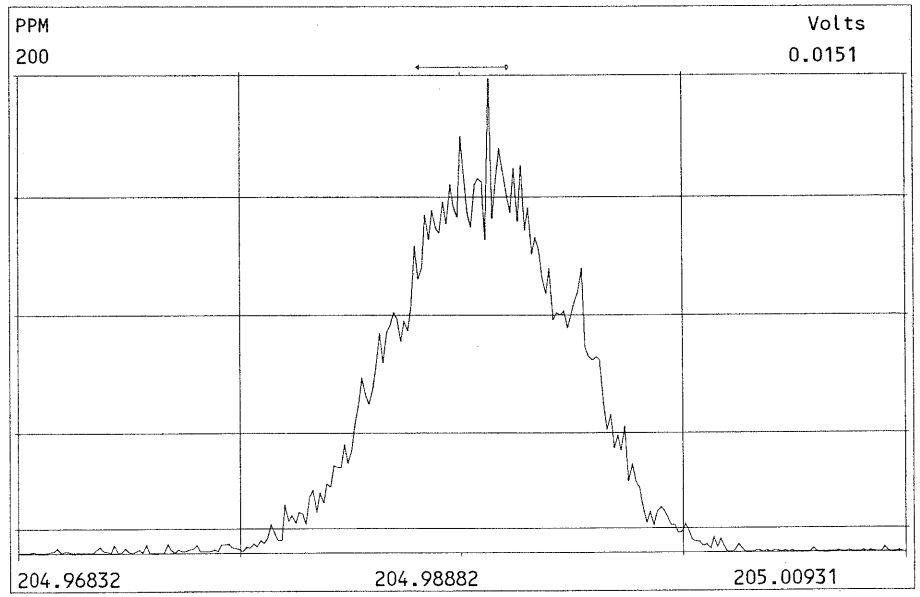


Peak Locate Examination: 1-AUG-2018:02:18 File:31JUL18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

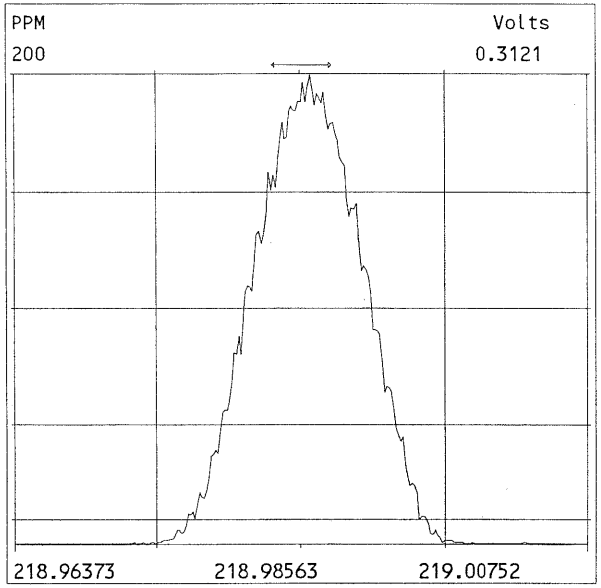


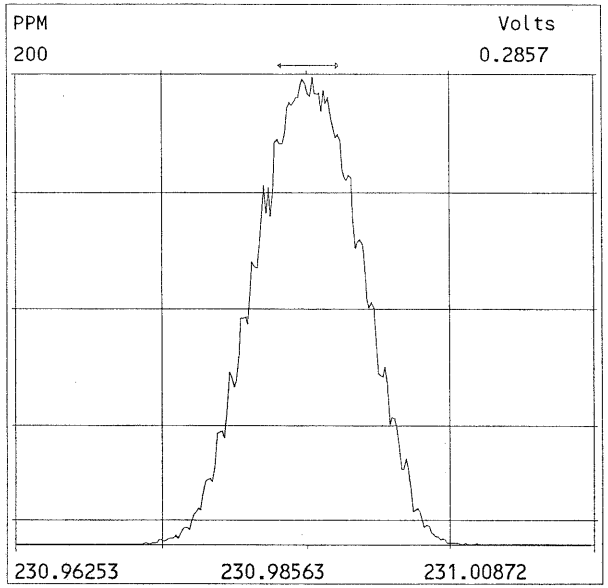


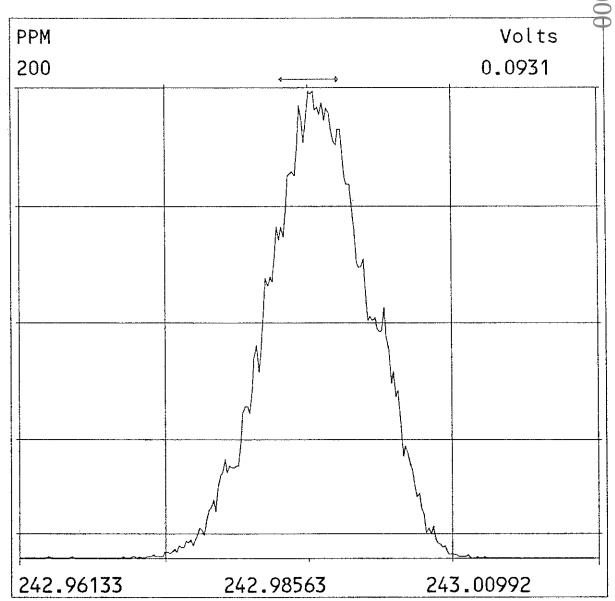


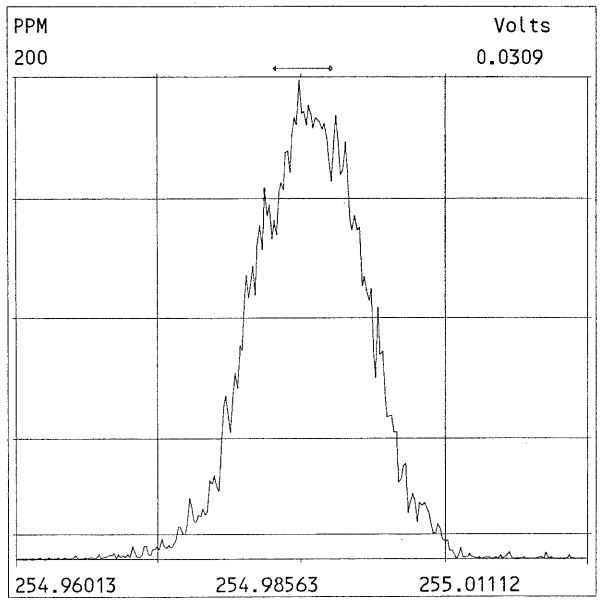


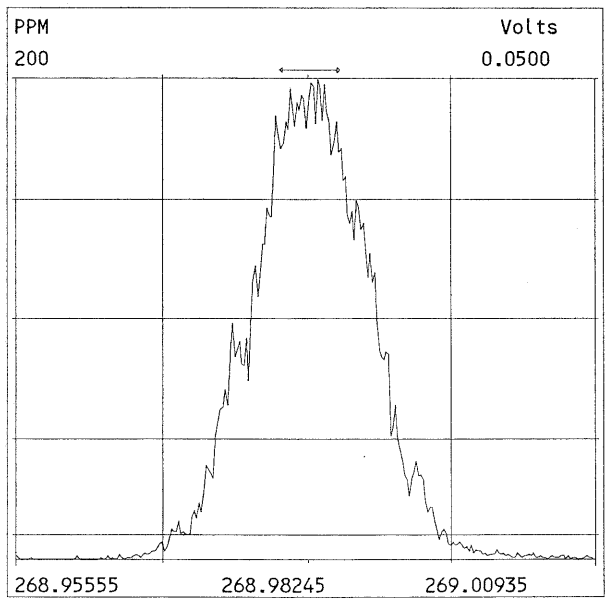
Peak Locate Examination: 1-AUG-2018:02:20 File:31JUL18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

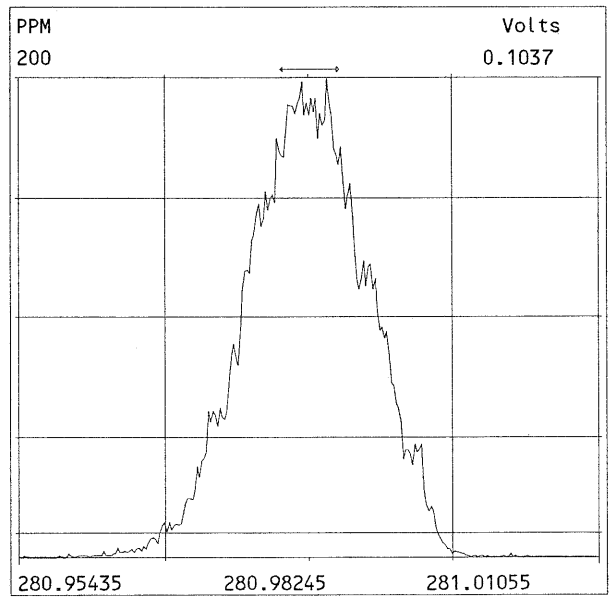




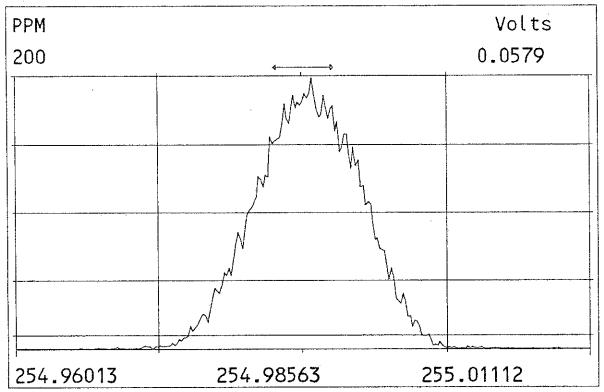


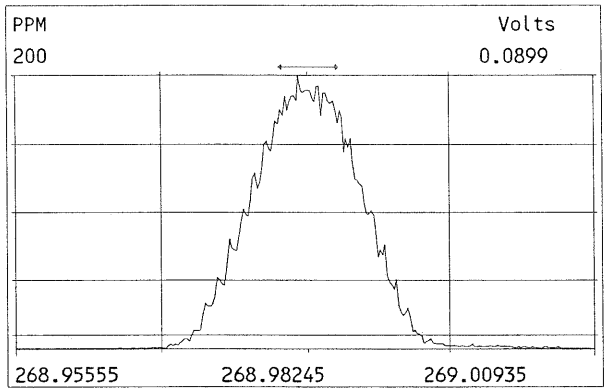


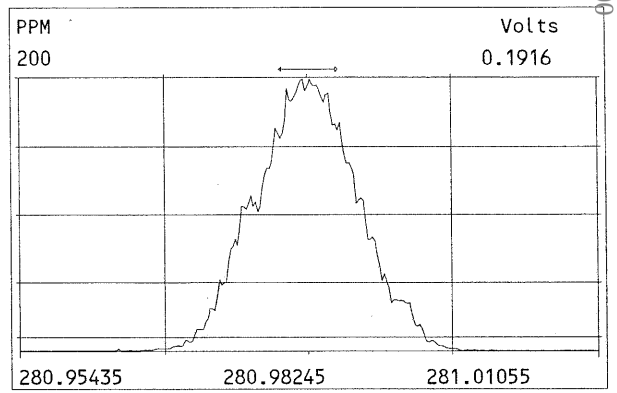


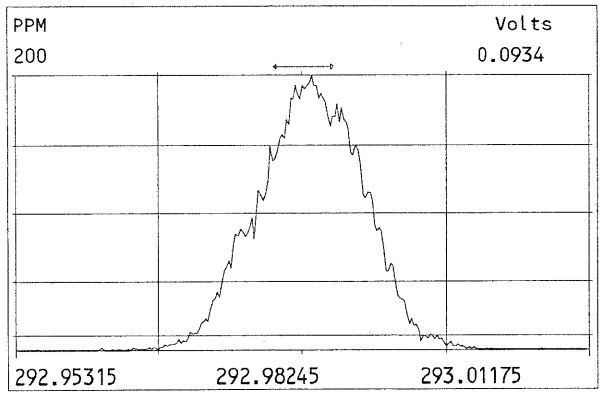


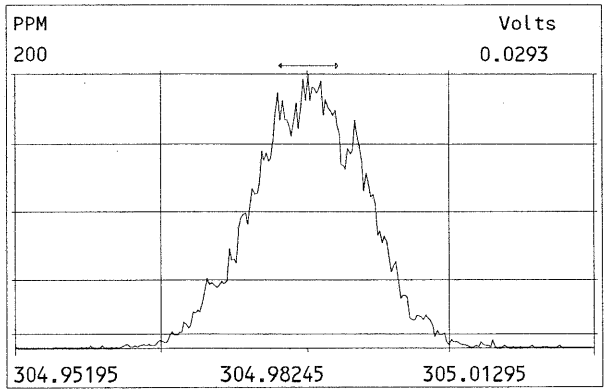
Peak Locate Examination: 1-AUG-2018:02:23 File:31JUL18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

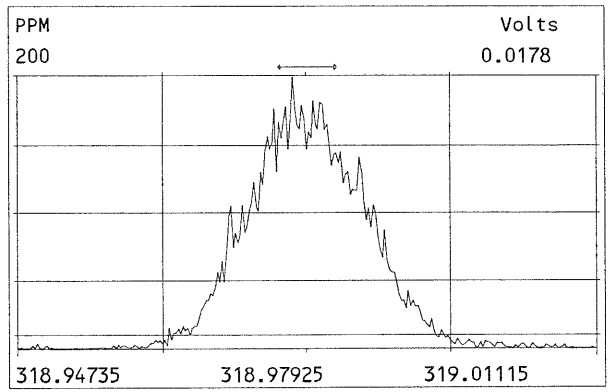


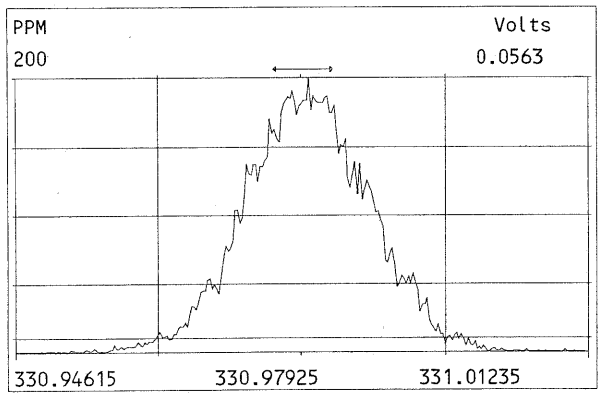


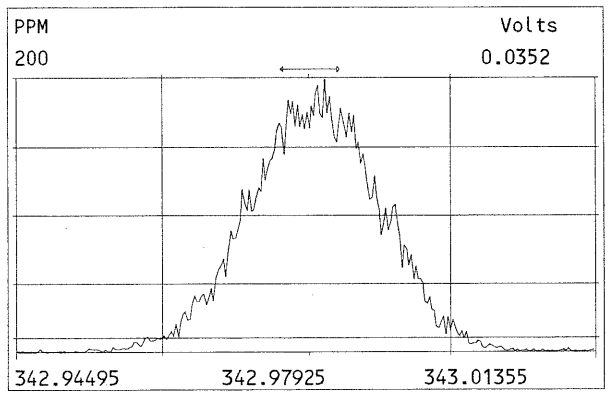




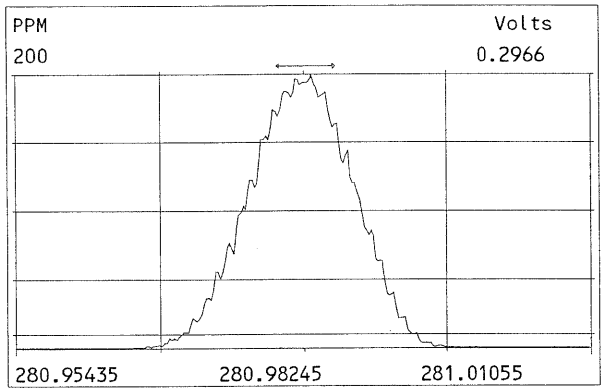


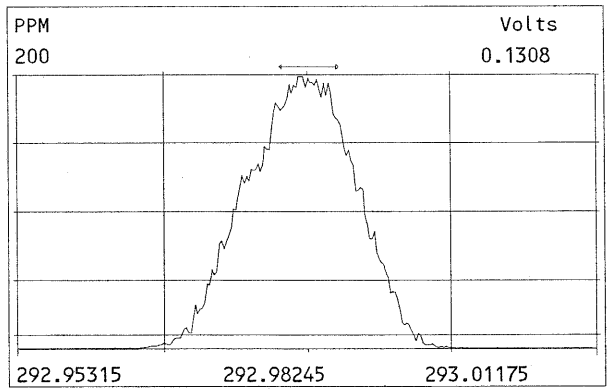


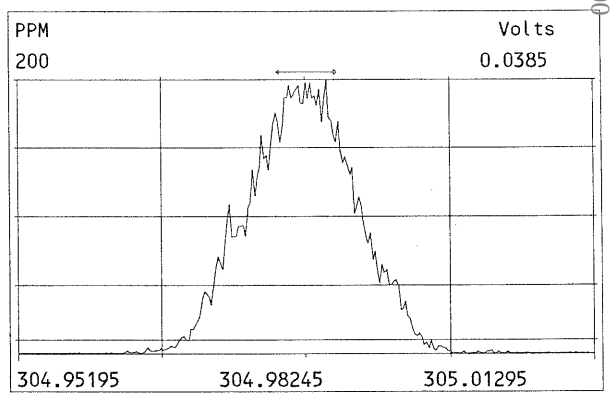


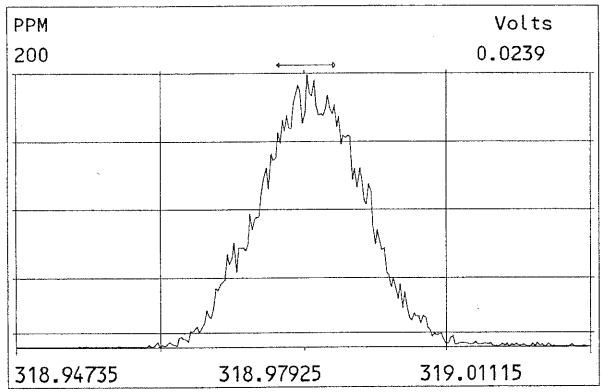


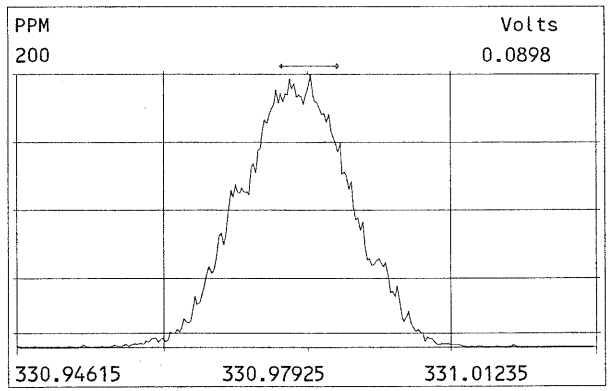
Peak Locate Examination: 1-AUG-2018:02:25 File:31JUL18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

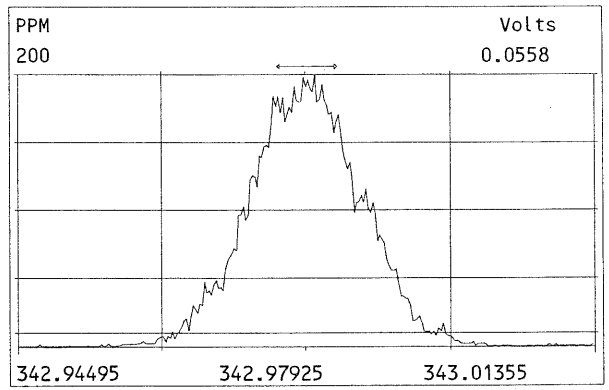


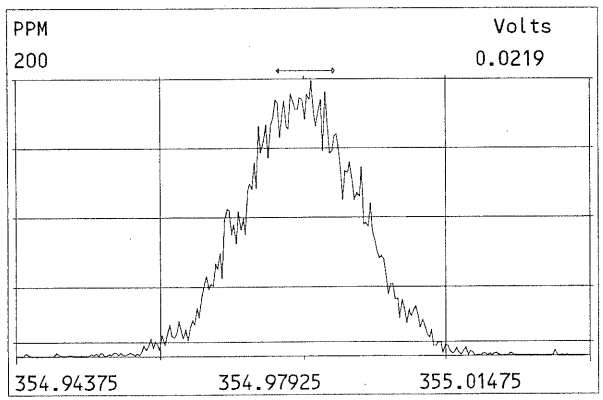


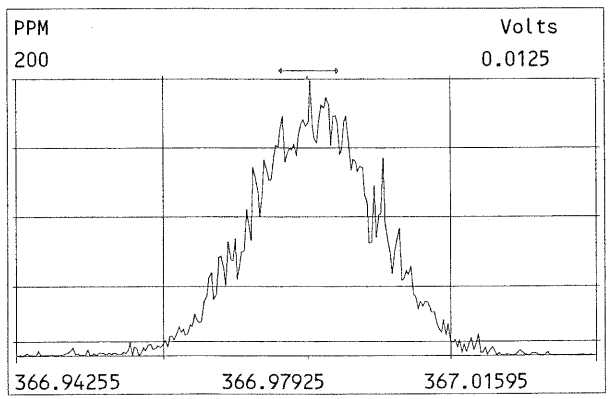


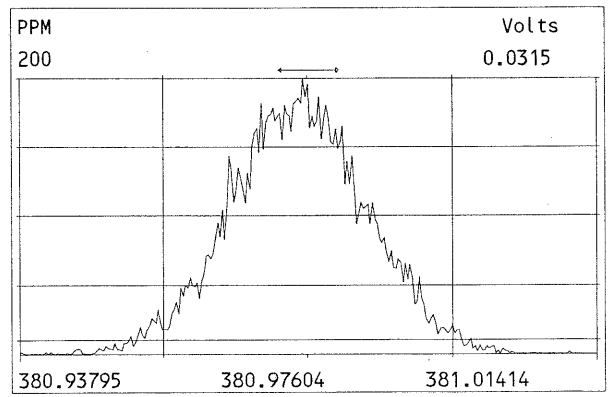




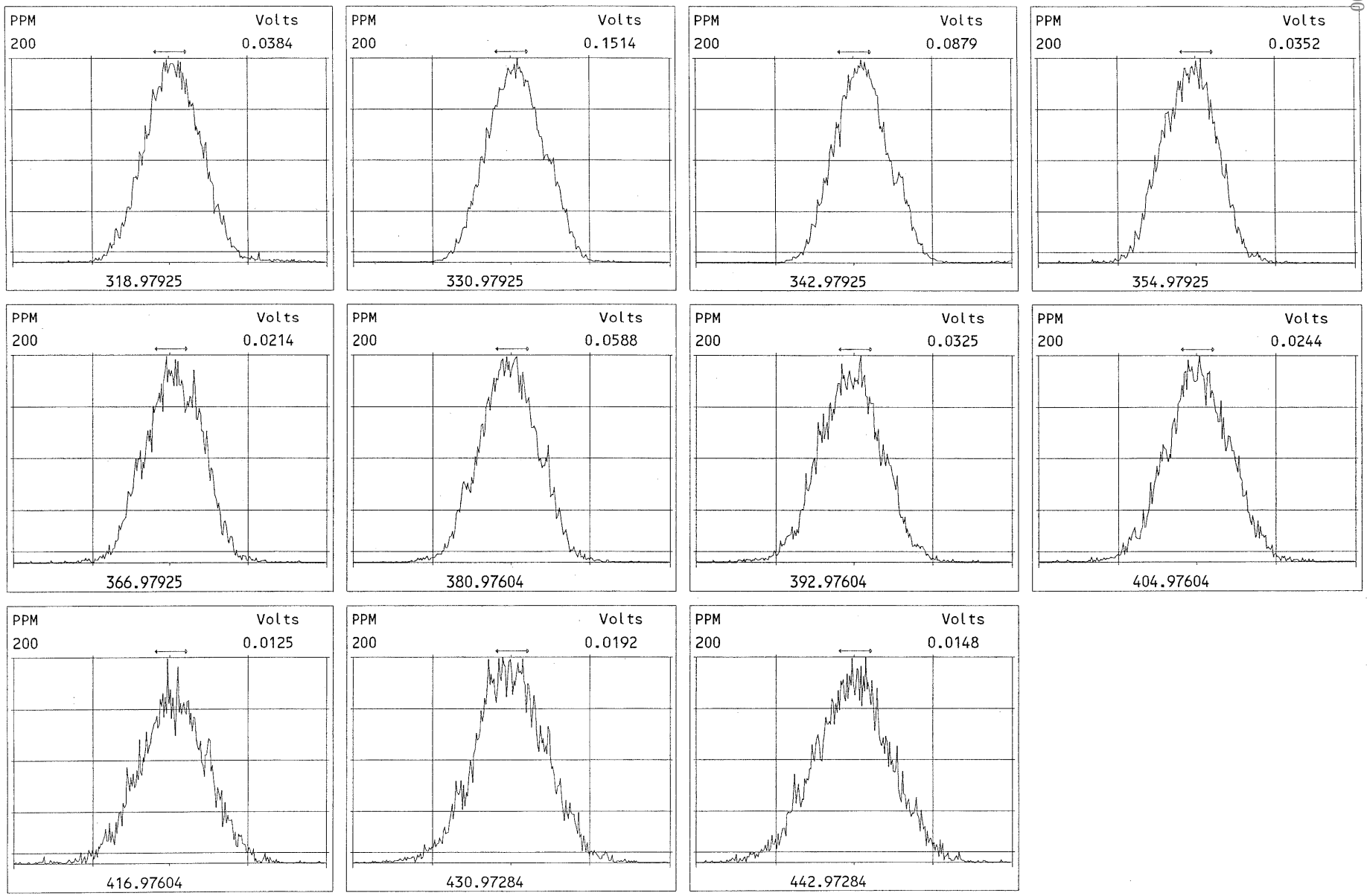






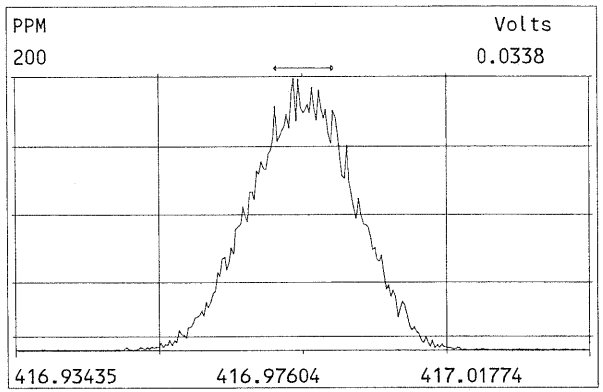


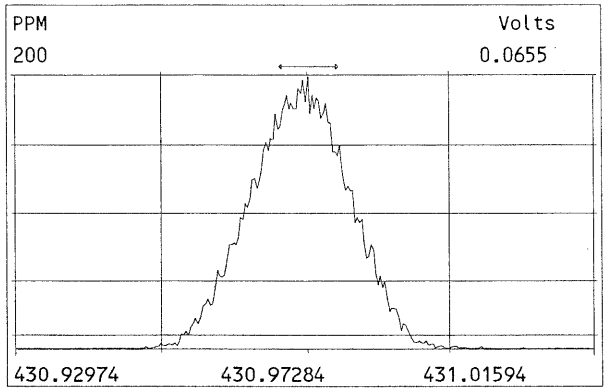
Peak Locate Examination: 1-AUG-2018:02:27 File:31JUL18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

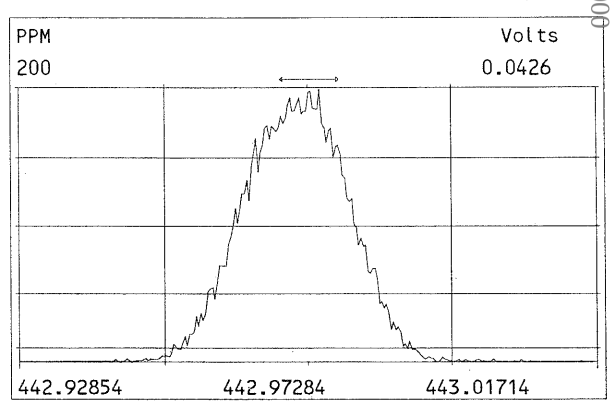


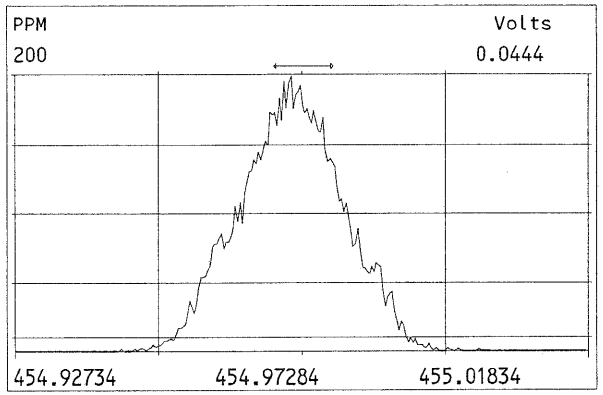
Peak Locate Examination: 1-AUG-2018:02:30 File:31JUL18Z_RES_CHECK

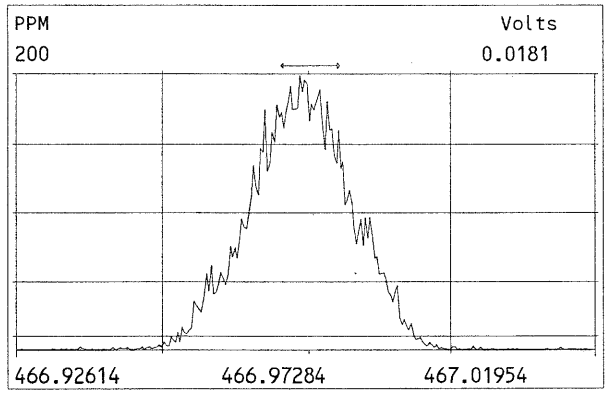
Experiment:1668PCB Function:6 Reference:PFK

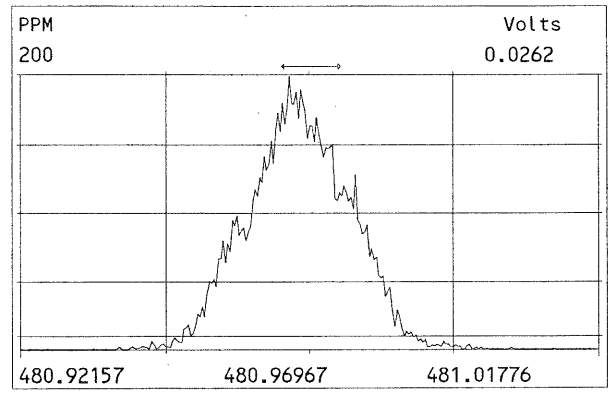


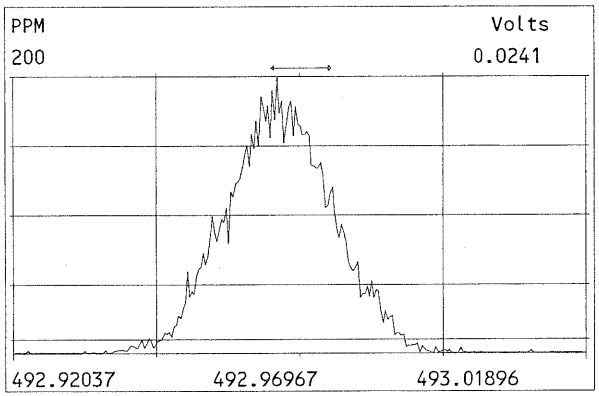


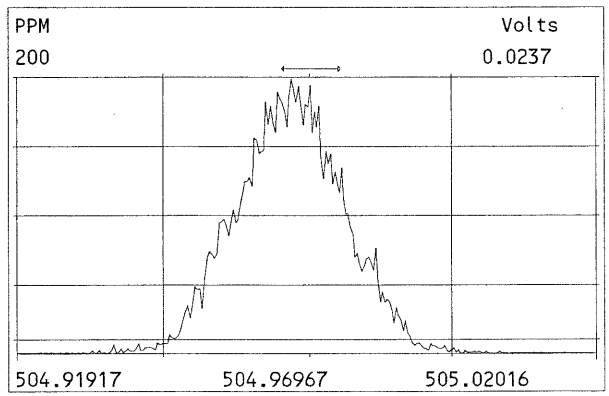


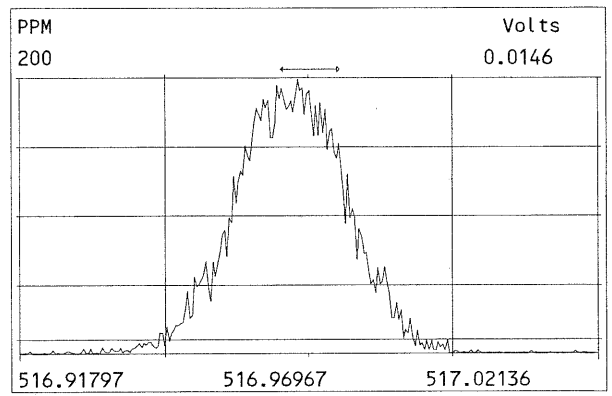












Cal: DAILY209FAL4-7-31-18

Run: 31JUL18Z Analyte: Results: 11719-7 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:31JUL18Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.2792	-	1.28	
13C-PCB-1	0.8267	-	0.83	
PCB-2	1.1515	-	1.15	
PCB-3	1.2673	-	1.27	
13C-PCB-3	0.8326	-	0.83	
PCB-4	1.4404	-	1.44	
PCB-10	1.3487	-	1.35	
13C-PCB-4	0.6838	-	0.68	
PCB-9	1.4428	*	1.44	
PCB-7	1.5548	*	1.55	
PCB-6	1.4386	-	1.44	
PCB-8	1.4458	-	1.45	
PCB-5	1.4647	*	1.46	
PCB-14	1.3558	-	1.36	
PCB-11	1.3083	-	1.31	
PCB-13	1.3802	*	1.38	
PCB-12	1.4419	-	1.44	
PCB-15	1.3788	-	1.38	
13C-PCB-15	1.0135	-	1.01	
PCB-19	1.3069	-	1.31	
PCB-30	1.6808	-	1.68	
PCB-18	1.2502	-	1.25	
PCB-17	1.3739	-	1.37	
PCB-27	1.6834	*	1.68	
PCB-24	1.7435	-	1.74	
PCB-16	1.4867	-	1.49	
PCB-32	1.5046	-	1.50	
13C-PCB-19	0.3526	-	0.35	
13C-PCB-9	-	-	-	
PCB-34	1.3967	-	1.40	
PCB-23	1.5003	-	1.50	
PCB-29	1.3148	-	1.31	
PCB-26	1.2494	-	1.25	
PCB-25	1.6029	-	1.60	
PCB-31	1.2117	-	1.21	
PCB-28	1.6892	-	1.69	
PCB-20	1.3621	-	1.36	Co-elute PCB 21/33
PCB-21	1.3621	-	1.36	Co-elute PCB 20/33
PCB-33	1.3621	-	1.36	Co-elute PCB 20/21
PCB-22	1.4074	-	1.41	
PCB-36	1.1974	-	1.20	
PCB-39	1.0523	-	1.05	
PCB-38	1.3890	-	1.39	
PCB-35	1.1218	-	1.12	
PCB-37	1.3963	-	1.40	
13C-PCB-37	1.5364	-	1.54	

PCB-54	1.1313	-	1.13	
PCB-50	0.7186	-	0.72	
PCB-53	0.7644	-	0.76	
PCB-51	0.7608	-	0.76	
PCB-45	0.6347	-	0.63	
PCB-46	0.6476	-	0.65	
PCB-52	0.9191	-	0.92	Co-elute PCB 69
PCB-69	0.9191	-	0.92	Co-elute PCB 52
PCB-73	0.8711	-	0.87	
PCB-43	0.7209	-	0.72	Co-elute PCB 49
PCB-49	0.7209	-	0.72	Co-elute PCB 43
PCB-47	0.8371	-	0.84	
PCB-48	0.9569	-	0.96	Co-elute PCB 75
PCB-75	0.9569	-	0.96	Co-elute PCB 48
PCB-65	1.0119	-	1.01	
PCB-62	0.9680	-	0.97	
PCB-44	0.6645	-	0.66	
PCB-42	0.8498	-	0.85	Co-elute PCB 59
PCB-59	0.8498	-	0.85	Co-elute PCB 42
PCB-72	0.9165	-	0.92	Co-elute PCB 41/71/64
PCB-41	0.9165	-	0.92	Co-elute PCB 72/71/64
PCB-71	0.9165	-	0.92	Co-elute PCB 72/41/64
PCB-64	0.9165	-	0.92	Co-elute PCB 72/41/71
PCB-68	1.0306	-	1.03	
PCB-40	0.5908	-	0.59	
PCB-57	0.9673	-	0.97	
PCB-67	0.9847	-	0.98	
PCB-58	0.8961	-	0.90	
PCB-63	1.0196	-	1.02	
PCB-74	1.1290	-	1.13	
PCB-61	1.0726	-	1.07	Co-elute PCB 70
PCB-70	1.0726	-	1.07	Co-elute PCB 61
PCB-76	0.9967	-	1.00	Co-elute PCB 66
PCB-66	0.9967	-	1.00	Co-elute PCB 76
PCB-80	1.0996	-	1.10	
PCB-55	1.0690	-	1.07	
13C-PCB-54	1.2802	-	1.28	
PCB-104	1.2696	-	1.27	
PCB-96	1.1349	-	1.13	
PCB-103	0.9705	-	0.97	
PCB-100	0.9789	-	0.98	
PCB-94	0.8711	-	0.87	
PCB-98	1.0152	-	1.02	Co-elute PCB 102
PCB-102	1.0152	-	1.02	Co-elute PCB 98
PCB-95	0.8809	-	0.88	
PCB-93	0.8107	-	0.81	
PCB-88	0.9096	-	0.91	Co-elute PCB 91
PCB-91	0.9096	-	0.91	Co-elute PCB 88
PCB-121	1.1177	-	1.12	
13C-PCB-104	0.7590	-	0.76	
13C-PCB-28	1.8753	-	1.88	
13C-PCB-52	-	-	-	

PCB-56	1.2618	-	1.26	Co-elute PCB 60
PCB-60	1.2618	-	1.26	Co-elute PCB 56
PCB-79	1.1874	-	1.19	
PCB-78	1.1282	-	1.13	
PCB-81	1.2489	-	1.25	
13C-PCB-81	1.7886	-	1.79	
PCB-77	1.1697	-	1.17	
13C-PCB-77	1.7225	-	1.72	
PCB-155	1.2133	-	1.21	
PCB-150	1.0729	-	1.07	
PCB-152	1.0379	-	1.04	
PCB-145	1.0860	-	1.09	
PCB-136	0.9745	-	0.97	
PCB-148	0.8592	-	0.86	
PCB-154	1.0160	-	1.02	
13C-PCB-155	0.8344	-	0.83	
13C-PCB-111	1.2326	-	1.23	
13C-PCB-101	-	-	-	
PCB-84	0.5761	-	0.58	Co-elute PCB 92
PCB-92	0.5761	-	0.58	Co-elute PCB 84
PCB-89	0.5551	-	0.56	
PCB-90	0.6596	-	0.66	Co-elute PCB 101
PCB-101	0.6596	-	0.66	Co-elute PCB 90
PCB-113	0.6852	-	0.69	
PCB-99	0.7484	-	0.75	
PCB-119	0.7850	-	0.79	
PCB-83	0.6683	-	0.67	Co-elute PCB 112
PCB-112	0.6683	-	0.67	Co-elute PCB 83
PCB-109	0.7965	-	0.80	
PCB-97	0.7232	-	0.72	
PCB-86	0.6610	*	0.66	
PCB-125	0.7293	-	0.73	Co-elute PCB 87/117
PCB-87	0.7293	-	0.73	Co-elute PCB 125/117
PCB-117	0.7293	-	0.73	Co-elute PCB 125/87
PCB-111	0.9067	-	0.91	Co-elute PCB 115
PCB-115	0.9067	-	0.91	Co-elute PCB 111
PCB-85	0.6944	-	0.69	Co-elute PCB 116
PCB-116	0.6944	-	0.69	Co-elute PCB 85
PCB-120	0.8575	-	0.86	
PCB-110	0.8510	-	0.85	
PCB-82	0.5103	-	0.51	
PCB-124	1.2369	-	1.24	
PCB-108	1.2366	-	1.24	Co-elute PCB 107
PCB-107	1.2366	-	1.24	Co-elute PCB 108
PCB-123	1.5005	-	1.50	
13C-PCB-123	1.5541	-	1.55	
PCB-118	1.1148	-	1.11	Co-elute PCB 106
PCB-106	1.1148	-	1.11	Co-elute PCB 118
13C-PCB-118	1.7467	-	1.75	
PCB-114	1.3039	-	1.30	
13C-PCB-114	1.5806	-	1.58	
PCB-122	1.1702	-	1.17	
PCB-105	1.2425	-	1.24	
13C-PCB-105	1.4865	-	1.49	
PCB-127	1.0889	-	1.09	
PCB-126	1.2807	-	1.28	
13C-PCB-126	1.4019	-	1.40	

PCB-151	0.7795	*	0.78	
PCB-135	0.9116	-	0.91	
PCB-144	0.9089	-	0.91	
PCB-147	0.9857	-	0.99	
PCB-139	0.9762	-	0.98	Co-elute PCB 149
PCB-149	0.9762	-	0.98	Co-elute PCB 139
PCB-140	0.9876	-	0.99	
PCB-143	0.9147	-	0.91	Co-elute PCB 134
PCB-134	0.9147	-	0.91	Co-elute PCB 143
PCB-131	0.9148	-	0.91	Co-elute PCB 133
PCB-133	0.9148	-	0.91	Co-elute PCB 131
PCB-142	0.8349	-	0.83	
PCB-165	1.0869	-	1.09	Co-elute PCB 146
PCB-146	1.0869	-	1.09	Co-elute PCB 165
PCB-161	1.0026	-	1.00	Co-elute PCB 132
PCB-132	1.0026	-	1.00	Co-elute PCB 161
PCB-153	1.0917	-	1.09	
PCB-168	1.1863	-	1.19	
PCB-141	0.9185	-	0.92	
PCB-137	0.8182	-	0.82	
PCB-130	0.8884	-	0.89	
PCB-138	1.1989	-	1.20	Co-elute PCB 163/164
PCB-163	1.1989	-	1.20	Co-elute PCB 138/164
PCB-164	1.1989	-	1.20	Co-elute PCB 138/163
PCB-158	1.2150	-	1.21	Co-elute PCB 160
PCB-160	1.2150	-	1.21	Co-elute PCB 158
PCB-129	0.7838	-	0.78	
PCB-166	1.1391	-	1.14	
PCB-159	1.1985	-	1.20	
PCB-128	1.0171	-	1.02	Co-elute PCB 162
PCB-162	1.0171	-	1.02	Co-elute PCB 128
PCB-167	1.0834	-	1.08	
13C-PCB-167	1.1631	-	1.16	
PCB-156	1.1284	-	1.13	
13C-PCB-156	1.1013	-	1.10	
PCB-157	1.2050	-	1.21	
13C-PCB-157	1.1256	-	1.13	
PCB-169	1.1305	-	1.13	
13C-PCB-169	1.0629	-	1.06	
PCB-188	1.1799	-	1.18	
13C-PCB-188	0.8339	-	0.83	

PCB-184	1.2747	-	1.27	
PCB-179	1.1630	-	1.16	
PCB-176	1.1347	-	1.13	
PCB-186	1.1962	-	1.20	
PCB-178	0.8159	-	0.82	
PCB-175	0.8485	-	0.85	
PCB-187	0.9724	-	0.97	Co-elute PCB 182
PCB-182	0.9724	-	0.97	Co-elute PCB 187
PCB-183	0.9222	-	0.92	
PCB-185	0.8733	-	0.87	
PCB-174	0.8839	-	0.88	
PCB-181	0.8645	-	0.86	
PCB-177	0.7788	-	0.78	
PCB-171	0.8363	-	0.84	
PCB-173	0.7464	-	0.75	
PCB-172	0.7878	-	0.79	
PCB-192	1.1106	-	1.11	
PCB-180	1.0744	-	1.07	
PCB-193	1.1238	-	1.12	
PCB-191	1.0606	-	1.06	
PCB-170	0.7828	-	0.78	
PCB-190	1.0481	-	1.05	
PCB-189	1.1998	-	1.20	
13C-PCB-189	0.7246	-	0.72	
PCB-202	1.0668	-	1.07	
PCB-201	0.9741	-	0.97	
PCB-204	0.9981	-	1.00	
PCB-197	1.0707	-	1.07	
PCB-200	0.9998	-	1.00	
PCB-198	0.7720	-	0.77	
PCB-199	0.7361	-	0.74	
PCB-203	0.8476	-	0.85	Co-elute PCB 196
PCB-196	0.8476	-	0.85	Co-elute PCB 203
13C-PCB-202	0.4794	-	0.48	
13C-PCB-178	0.6119	-	0.61	
13C-PCB-138	-	-	-	
PCB-195	0.8981	-	0.90	
PCB-194	0.9164	-	0.92	
PCB-205	1.1858	-	1.19	
13C-PCB-205	1.2477	-	1.25	
PCB-208	0.9923	-	0.99	
13C-PCB-208	1.2676	-	1.27	
PCB-207	1.0087	-	1.01	
PCB-206	0.9647	-	0.96	
13C-PCB-206	0.9343	-	0.93	
PCB-209	1.1258	-	1.13	
13C-PCB-209	1.0371	-	1.04	
13C-PCB-194	-	-	-	

Analyst: [signature] Date: 8/1/18

Run #1 Filename 31JUL18Z S: 2 Acquired: 31-JUL-18 11:11:09 Cal: DAILY209FAL4-7-31-18
Client ID: SS073118Z1 Analyte: FAL ID: Daily 209 180725A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	3.93e+07	3.26 y	14:31	-	1.28	
2	IS/RT	13C-PCB-1	100.00	6.14e+07	3.28 y	14:30	-	0.827	
3	Unk	PCB-2	50.00	3.55e+07	3.23 y	16:44	-	1.15	
4	Unk	PCB-3	50.00	3.92e+07	3.21 y	16:58	-	1.27	
5	IS/RT	13C-PCB-3	100.00	6.19e+07	3.35 y	16:57	-	0.833	
6	Unk	PCB-4	50.00	3.66e+07	1.60 y	18:12	-	1.44	
7	Unk	PCB-10	50.00	4.25e+07	1.61 y	18:15	-	1.35	
8	IS/RT	13C-PCB-4	100.00	5.08e+07	1.64 y	18:10	-	0.684	
9	Unk	PCB-9	50.00	4.55e+07	1.55 y	19:53	-	1.44	
10	Unk	PCB-7	50.00	4.90e+07	1.68 y	19:55	-	1.55	
11	Unk	PCB-6	50.00	4.54e+07	1.64 y	20:30	-	1.44	
12	Unk	PCB-8	50.00	4.56e+07	1.50 y	20:53	-	1.45	
13	Unk	PCB-5	50.00	4.62e+07	1.71 y	20:54	-	1.46	
14	Unk	PCB-14	50.00	4.28e+07	1.63 y	21:57	-	1.36	
15	Unk	PCB-11	50.00	4.13e+07	1.61 y	23:05	-	1.31	
16	Unk	PCB-13	50.00	4.35e+07	1.51 y	23:27	-	1.38	
17	Unk	PCB-12	50.00	4.55e+07	1.62 y	23:28	-	1.44	
18	Unk	PCB-15	50.00	5.19e+07	1.59 y	23:45	-	1.38	
19	IS/RT	13C-PCB-15	100.00	7.53e+07	1.67 y	23:44	-	1.01	
20	Unk	PCB-19	50.00	1.71e+07	1.08 y	22:04	-	1.31	
21	Unk	PCB-30	50.00	2.20e+07	1.09 y	22:56	-	1.68	
22	Unk	PCB-18	50.00	1.64e+07	1.09 y	23:38	-	1.25	
23	Unk	PCB-17	50.00	1.80e+07	1.10 y	23:48	-	1.37	
24	Unk	PCB-27	50.00	2.21e+07	1.16 y	24:20	-	1.68	
25	Unk	PCB-24	50.00	2.28e+07	1.06 y	24:21	-	1.74	
26	Unk	PCB-16	50.00	1.95e+07	1.11 y	24:49	-	1.49	
27	Unk	PCB-32	50.00	1.97e+07	1.10 y	24:50	-	1.50	
28	IS/RT	13C-PCB-19	100.00	2.62e+07	1.14 y	22:03	-	0.353	
29	RS	13C-PCB-9	100.00	7.43e+07	1.65 y	19:52	7.43e+05	-	
30	Unk	PCB-34	50.00	2.90e+07	1.13 y	25:36	-	1.40	
31	Unk	PCB-23	50.00	3.12e+07	1.18 y	25:41	-	1.50	
32	Unk	PCB-29	50.00	2.73e+07	1.14 y	25:55	-	1.31	
33	Unk	PCB-26	50.00	2.60e+07	1.11 y	26:07	-	1.25	
34	Unk	PCB-25	50.00	3.33e+07	1.16 y	26:17	-	1.60	
35	Unk	PCB-31	50.00	2.52e+07	1.15 y	26:36	-	1.21	
36	Unk	PCB-28	50.00	3.51e+07	1.11 y	26:43	-	1.69	
37	Unk	PCB-20	150.00	8.50e+07	1.12 y	27:16	-	1.36	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	8.50e+07	1.12 y	27:16	-	1.36	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	8.50e+07	1.12 y	27:16	-	1.36	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	2.93e+07	1.13 y	27:42	-	1.41	
41	Unk	PCB-36	50.00	2.49e+07	1.09 y	28:17	-	1.20	
42	Unk	PCB-39	50.00	2.19e+07	1.17 y	28:45	-	1.05	
43	Unk	PCB-38	50.00	2.89e+07	1.10 y	29:28	-	1.39	
44	Unk	PCB-35	50.00	2.33e+07	1.12 y	29:60	-	1.12	
45	Unk	PCB-37	50.00	2.90e+07	1.09 y	30:24	-	1.40	
46	IS	13C-PCB-37	100.00	4.16e+07	1.12 y	30:23	-	1.54	

47	Unk	PCB-54	100.00	3.92e+07	0.75 y	25:37	-	1.13	
48	Unk	PCB-50	100.00	2.49e+07	0.73 y	26:43	-	0.719	
49	Unk	PCB-53	100.00	2.65e+07	0.74 y	27:19	-	0.764	
50	Unk	PCB-51	100.00	2.64e+07	0.72 y	27:40	-	0.761	
51	Unk	PCB-45	100.00	2.20e+07	0.74 y	28:05	-	0.635	
52	Unk	PCB-46	100.00	2.24e+07	0.74 y	28:31	-	0.648	
53	Unk	PCB-52	200.00	6.37e+07	0.73 y	28:59	-	0.919	Co-elute PCB 69
54	Unk	PCB-69	200.00	6.37e+07	0.73 y	28:59	-	0.919	Co-elute PCB 52
55	Unk	PCB-73	100.00	3.02e+07	0.78 y	29:06	-	0.871	
56	Unk	PCB-43	200.00	5.00e+07	0.73 y	29:14	-	0.721	Co-elute PCB 49
57	Unk	PCB-49	200.00	5.00e+07	0.73 y	29:14	-	0.721	Co-elute PCB 43
58	Unk	PCB-47	100.00	2.90e+07	0.71 y	29:27	-	0.837	
59	Unk	PCB-48	200.00	6.63e+07	0.74 y	29:33	-	0.957	Co-elute PCB 75
60	Unk	PCB-75	200.00	6.63e+07	0.74 y	29:33	-	0.957	Co-elute PCB 48
61	Unk	PCB-65	100.00	3.51e+07	0.72 y	29:49	-	1.01	
62	Unk	PCB-62	100.00	3.35e+07	0.76 y	29:55	-	0.968	
63	Unk	PCB-44	100.00	2.30e+07	0.74 y	30:13	-	0.665	
64	Unk	PCB-42	200.00	5.89e+07	0.72 y	30:24	-	0.850	Co-elute PCB 59
65	Unk	PCB-59	200.00	5.89e+07	0.72 y	30:24	-	0.850	Co-elute PCB 42
66	Unk	PCB-72	400.00	1.27e+08	0.72 y	30:58	-	0.917	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	1.27e+08	0.72 y	30:58	-	0.917	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	1.27e+08	0.72 y	30:58	-	0.917	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	1.27e+08	0.72 y	30:58	-	0.917	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	3.57e+07	0.75 y	31:14	-	1.03	
71	Unk	PCB-40	100.00	2.05e+07	0.74 y	31:25	-	0.591	
72	Unk	PCB-57	100.00	3.35e+07	0.75 y	31:46	-	0.967	
73	Unk	PCB-67	100.00	3.41e+07	0.75 y	32:04	-	0.985	
74	Unk	PCB-58	100.00	3.11e+07	0.75 y	32:10	-	0.896	
75	Unk	PCB-63	100.00	3.53e+07	0.75 y	32:19	-	1.02	
76	Unk	PCB-74	100.00	3.91e+07	0.79 y	32:35	-	1.13	
77	Unk	PCB-61	200.00	7.43e+07	0.71 y	32:47	-	1.07	Co-elute PCB 70
78	Unk	PCB-70	200.00	7.43e+07	0.71 y	32:47	-	1.07	Co-elute PCB 61
79	Unk	PCB-76	200.00	6.91e+07	0.75 y	32:58	-	0.997	Co-elute PCB 66
80	Unk	PCB-66	200.00	6.91e+07	0.75 y	32:58	-	0.997	Co-elute PCB 76
81	Unk	PCB-80	100.00	3.81e+07	0.75 y	33:13	-	1.10	
82	Unk	PCB-55	100.00	3.70e+07	0.74 y	33:31	-	1.07	
83	IS/RT	13C-PCB-54	100.00	3.47e+07	0.79 y	25:36	-	1.28	
84	Unk	PCB-104	100.00	2.61e+07	1.60 y	30:04	-	1.27	
85	Unk	PCB-96	100.00	2.33e+07	1.59 y	31:14	-	1.13	
86	Unk	PCB-103	100.00	1.99e+07	1.59 y	31:46	-	0.970	
87	Unk	PCB-100	100.00	2.01e+07	1.56 y	32:06	-	0.979	
88	Unk	PCB-94	100.00	1.79e+07	1.57 y	32:33	-	0.871	
89	Unk	PCB-98	200.00	4.17e+07	1.57 y	32:59	-	1.02	Co-elute PCB 102
90	Unk	PCB-102	200.00	4.17e+07	1.57 y	32:59	-	1.02	Co-elute PCB 98
91	Unk	PCB-95	100.00	1.81e+07	1.68 y	33:02	-	0.881	
92	Unk	PCB-93	100.00	1.67e+07	1.59 y	33:07	-	0.811	
93	Unk	PCB-88	200.00	3.74e+07	1.57 y	33:26	-	0.910	Co-elute PCB 91
94	Unk	PCB-91	200.00	3.74e+07	1.57 y	33:26	-	0.910	Co-elute PCB 88
95	Unk	PCB-121	100.00	2.30e+07	1.64 y	33:31	-	1.12	
96	IS	13C-PCB-104	100.00	2.05e+07	1.59 y	30:01	-	0.759	
97	C/Up	13C-PCB-28	100.00	5.08e+07	1.11 y	26:41	-	1.88	
98	RS	13C-PCB-52	100.00	2.71e+07	0.77 y	28:57	2.71e+05	-	
99	Unk	PCB-56	200.00	1.16e+08	0.81 y	33:59	-	1.26	Co-elute PCB 60
100	Unk	PCB-60	200.00	1.16e+08	0.81 y	33:59	-	1.26	Co-elute PCB 56

101	Unk	PCB-79	100.00	5.44e+07	0.84 y	35:00	-	1.19	
102	Unk	PCB-78	100.00	5.17e+07	0.83 y	35:40	-	1.13	
103	Unk	PCB-81	100.00	5.83e+07	0.82 y	36:10	-	1.25	
104	IS	13C-PCB-81	100.00	4.67e+07	0.80 y	36:09	-	1.79	
105	Unk	PCB-77	100.00	5.26e+07	0.85 y	36:44	-	1.17	
106	IS/RT	13C-PCB-77	100.00	4.50e+07	0.80 y	36:43	-	1.72	
107	Unk	PCB-155	100.00	2.64e+07	1.29 y	34:12	-	1.21	
108	Unk	PCB-150	100.00	2.34e+07	1.31 y	35:25	-	1.07	
109	Unk	PCB-152	100.00	2.26e+07	1.29 y	35:51	-	1.04	
110	Unk	PCB-145	100.00	2.37e+07	1.30 y	36:16	-	1.09	
111	Unk	PCB-136	100.00	2.12e+07	1.30 y	36:35	-	0.975	
112	Unk	PCB-148	100.00	1.87e+07	1.30 y	36:40	-	0.859	
113	Unk	PCB-154	100.00	2.21e+07	1.29 y	37:09	-	1.02	
114	IS	13C-PCB-155	100.00	2.18e+07	1.36 y	34:11	-	0.834	
115	C/Up	13C-PCB-111	100.00	3.22e+07	1.61 y	36:18	-	1.23	
116	RS	13C-PCB-101	100.00	2.61e+07	1.63 y	34:39	2.61e+05	-	
117	Unk	PCB-84	200.00	5.09e+07	1.57 y	34:18	-	0.576	Co-elute PCB 92
118	Unk	PCB-92	200.00	5.09e+07	1.57 y	34:18	-	0.576	Co-elute PCB 84
119	Unk	PCB-89	100.00	2.45e+07	1.62 y	34:29	-	0.555	
120	Unk	PCB-90	200.00	5.83e+07	1.59 y	34:39	-	0.660	Co-elute PCB 101
121	Unk	PCB-101	200.00	5.83e+07	1.59 y	34:39	-	0.660	Co-elute PCB 90
122	Unk	PCB-113	100.00	3.03e+07	1.54 y	34:53	-	0.685	
123	Unk	PCB-99	100.00	3.31e+07	1.60 y	34:59	-	0.748	
124	Unk	PCB-119	100.00	3.47e+07	1.58 y	35:25	-	0.785	
125	Unk	PCB-83	200.00	5.91e+07	1.56 y	35:33	-	0.668	Co-elute PCB 112
126	Unk	PCB-112	200.00	5.91e+07	1.56 y	35:33	-	0.668	Co-elute PCB 83
127	Unk	PCB-109	100.00	3.52e+07	1.55 y	35:43	-	0.797	
128	Unk	PCB-97	100.00	3.20e+07	1.58 y	35:54	-	0.723	
129	Unk	PCB-86	100.00	2.92e+07	1.50 y	36:05	-	0.661	
130	Unk	PCB-125	300.00	9.67e+07	1.62 y	36:10	-	0.729	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	9.67e+07	1.62 y	36:10	-	0.729	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	9.67e+07	1.62 y	36:10	-	0.729	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	8.02e+07	1.57 y	36:19	-	0.907	Co-elute PCB 115
134	Unk	PCB-115	200.00	8.02e+07	1.57 y	36:19	-	0.907	Co-elute PCB 111
135	Unk	PCB-85	200.00	6.14e+07	1.58 y	36:26	-	0.694	Co-elute PCB 116
136	Unk	PCB-116	200.00	6.14e+07	1.58 y	36:26	-	0.694	Co-elute PCB 85
137	Unk	PCB-120	100.00	3.79e+07	1.58 y	36:40	-	0.857	
138	Unk	PCB-110	100.00	3.76e+07	1.60 y	36:47	-	0.851	
139	Unk	PCB-82	100.00	2.26e+07	1.57 y	37:23	-	0.510	
140	Unk	PCB-124	100.00	5.47e+07	1.61 y	38:03	-	1.24	
141	Unk	PCB-108	200.00	1.09e+08	1.64 y	38:12	-	1.24	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.09e+08	1.64 y	38:12	-	1.24	Co-elute PCB 108
143	Unk	PCB-123	100.00	6.48e+07	1.64 y	38:22	-	1.50	
144	IS	13C-PCB-123	100.00	4.32e+07	1.65 y	38:20	-	1.55	
145	Unk	PCB-118	200.00	1.08e+08	1.63 y	38:33	-	1.11	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.08e+08	1.63 y	38:33	-	1.11	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	4.85e+07	1.64 y	38:30	-	1.75	
148	Unk	PCB-114	100.00	5.72e+07	1.63 y	39:09	-	1.30	
149	IS	13C-PCB-114	100.00	4.39e+07	1.63 y	39:08	-	1.58	
150	Unk	PCB-122	100.00	5.17e+07	1.65 y	39:16	-	1.17	
151	Unk	PCB-105	100.00	5.13e+07	1.66 y	39:57	-	1.24	
152	IS	13C-PCB-105	100.00	4.13e+07	1.63 y	39:57	-	1.49	
153	Unk	PCB-127	100.00	4.81e+07	1.69 y	40:18	-	1.09	
154	Unk	PCB-126	100.00	4.99e+07	1.70 y	42:07	-	1.28	
155	IS	13C-PCB-126	100.00	3.89e+07	1.63 y	42:05	-	1.40	

156	Unk	PCB-151	100.00	2.41e+07	1.33 y	37:47	-	0.779	
157	Unk	PCB-135	100.00	2.82e+07	1.29 y	37:58	-	0.912	
158	Unk	PCB-144	100.00	2.81e+07	1.33 y	38:05	-	0.909	
159	Unk	PCB-147	100.00	3.05e+07	1.27 y	38:13	-	0.986	
160	Unk	PCB-139	200.00	6.04e+07	1.27 y	38:28	-	0.976	Co-elute PCB 149
161	Unk	PCB-149	200.00	6.04e+07	1.27 y	38:28	-	0.976	Co-elute PCB 139
162	Unk	PCB-140	100.00	3.05e+07	1.27 y	38:38	-	0.988	
163	Unk	PCB-143	200.00	5.66e+07	1.27 y	39:03	-	0.915	Co-elute PCB 134
164	Unk	PCB-134	200.00	5.66e+07	1.27 y	39:03	-	0.915	Co-elute PCB 143
165	Unk	PCB-131	200.00	5.66e+07	1.26 y	39:19	-	0.915	Co-elute PCB 133
166	Unk	PCB-133	200.00	5.66e+07	1.26 y	39:19	-	0.915	Co-elute PCB 131
167	Unk	PCB-142	100.00	2.58e+07	1.28 y	39:29	-	0.835	
168	Unk	PCB-165	200.00	6.72e+07	1.28 y	39:41	-	1.09	Co-elute PCB 146
169	Unk	PCB-146	200.00	6.72e+07	1.28 y	39:41	-	1.09	Co-elute PCB 165
170	Unk	PCB-161	200.00	6.20e+07	1.27 y	39:55	-	1.00	Co-elute PCB 132
171	Unk	PCB-132	200.00	6.20e+07	1.27 y	39:55	-	1.00	Co-elute PCB 161
172	Unk	PCB-153	100.00	3.38e+07	1.31 y	40:05	-	1.09	
173	Unk	PCB-168	100.00	3.67e+07	1.27 y	40:17	-	1.19	
174	Unk	PCB-141	100.00	2.84e+07	1.28 y	40:46	-	0.919	
175	Unk	PCB-137	100.00	2.53e+07	1.26 y	41:09	-	0.818	
176	Unk	PCB-130	100.00	2.75e+07	1.30 y	41:14	-	0.888	
177	Unk	PCB-138	300.00	1.11e+08	1.29 y	41:36	-	1.20	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.11e+08	1.29 y	41:36	-	1.20	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.11e+08	1.29 y	41:36	-	1.20	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	7.51e+07	1.25 y	41:51	-	1.21	Co-elute PCB 160
181	Unk	PCB-160	200.00	7.51e+07	1.25 y	41:51	-	1.21	Co-elute PCB 158
182	Unk	PCB-129	100.00	2.42e+07	1.25 y	42:04	-	0.784	
183	Unk	PCB-166	100.00	3.52e+07	1.28 y	42:30	-	1.14	
184	Unk	PCB-159	100.00	3.71e+07	1.28 y	42:48	-	1.20	
185	Unk	PCB-128	200.00	6.29e+07	1.27 y	43:05	-	1.02	Co-elute PCB 162
186	Unk	PCB-162	200.00	6.29e+07	1.27 y	43:05	-	1.02	Co-elute PCB 128
187	Unk	PCB-167	100.00	3.50e+07	1.25 y	43:28	-	1.08	
188	IS	13C-PCB-167	100.00	3.23e+07	1.29 y	43:26	-	1.16	
189	Unk	PCB-156	100.00	3.45e+07	1.27 y	44:40	-	1.13	
190	IS	13C-PCB-156	100.00	3.06e+07	1.29 y	44:40	-	1.10	
191	Unk	PCB-157	100.00	3.77e+07	1.28 y	44:57	-	1.21	
192	IS	13C-PCB-157	100.00	3.13e+07	1.29 y	44:55	-	1.13	
193	Unk	PCB-169	100.00	3.34e+07	1.27 y	46:49	-	1.13	
194	IS	13C-PCB-169	100.00	2.95e+07	1.28 y	46:49	-	1.06	
195	Unk	PCB-188	100.00	2.73e+07	1.06 y	39:42	-	1.18	
196	IS	13C-PCB-188	100.00	2.32e+07	1.11 y	39:41	-	0.834	

197	Unk	PCB-184	100.00	2.76e+07	1.06 y	40:09	-	1.27	
198	Unk	PCB-179	100.00	2.52e+07	1.07 y	40:51	-	1.16	
199	Unk	PCB-176	100.00	2.46e+07	1.08 y	41:18	-	1.13	
200	Unk	PCB-186	100.00	2.59e+07	1.07 y	41:54	-	1.20	
201	Unk	PCB-178	100.00	1.77e+07	1.08 y	42:20	-	0.816	
202	Unk	PCB-175	100.00	1.84e+07	1.06 y	42:42	-	0.848	
203	Unk	PCB-187	200.00	4.21e+07	1.08 y	42:51	-	0.972	Co-elute PCB 182
204	Unk	PCB-182	200.00	4.21e+07	1.08 y	42:51	-	0.972	Co-elute PCB 187
205	Unk	PCB-183	100.00	2.00e+07	1.09 y	43:08	-	0.922	
206	Unk	PCB-185	100.00	1.89e+07	1.09 y	43:46	-	0.873	
207	Unk	PCB-174	100.00	1.91e+07	1.08 y	44:06	-	0.884	
208	Unk	PCB-181	100.00	1.87e+07	1.10 y	44:14	-	0.864	
209	Unk	PCB-177	100.00	1.69e+07	1.08 y	44:22	-	0.779	
210	Unk	PCB-171	100.00	1.81e+07	1.09 y	44:38	-	0.836	
211	Unk	PCB-173	100.00	1.62e+07	1.11 y	45:03	-	0.746	
212	Unk	PCB-172	100.00	1.71e+07	1.08 y	45:28	-	0.788	
213	Unk	PCB-192	100.00	2.40e+07	1.09 y	45:38	-	1.11	
214	Unk	PCB-180	100.00	2.33e+07	1.11 y	45:49	-	1.07	
215	Unk	PCB-193	100.00	2.43e+07	1.10 y	45:59	-	1.12	
216	Unk	PCB-191	100.00	2.30e+07	1.08 y	46:11	-	1.06	
217	Unk	PCB-170	100.00	1.69e+07	1.08 y	47:05	-	0.783	
218	Unk	PCB-190	100.00	2.27e+07	1.08 y	47:15	-	1.05	
219	Unk	PCB-189	100.00	2.41e+07	1.06 y	48:27	-	1.20	
220	IS	13C-PCB-189	100.00	2.01e+07	1.09 y	48:27	-	0.725	
221	Unk	PCB-202	150.00	2.13e+07	0.94 y	44:48	-	1.07	
222	Unk	PCB-201	150.00	1.95e+07	0.95 y	45:16	-	0.974	
223	Unk	PCB-204	150.00	1.99e+07	0.98 y	45:25	-	0.998	
224	Unk	PCB-197	150.00	2.14e+07	0.95 y	45:41	-	1.07	
225	Unk	PCB-200	150.00	2.00e+07	0.97 y	46:25	-	1.000	
226	Unk	PCB-198	150.00	1.54e+07	0.95 y	47:36	-	0.772	
227	Unk	PCB-199	150.00	1.47e+07	0.95 y	47:41	-	0.736	
228	Unk	PCB-203	300.00	3.39e+07	0.96 y	47:58	-	0.848	Co-elute PCB 196
229	Unk	PCB-196	300.00	3.39e+07	0.96 y	47:58	-	0.848	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	1.33e+07	0.94 y	44:48	-	0.479	
231	C/Up	13C-PCB-178	100.00	1.70e+07	1.12 y	42:20	-	0.612	
232	RS	13C-PCB-138	100.00	2.78e+07	1.32 y	41:34	2.78e+05	-	
233	Unk	PCB-195	150.00	4.52e+07	0.93 y	49:03	-	0.898	
234	Unk	PCB-194	150.00	4.62e+07	0.93 y	49:51	-	0.916	
235	Unk	PCB-205	150.00	5.97e+07	0.92 y	50:06	-	1.19	
236	IS	13C-PCB-205	100.00	3.36e+07	0.89 y	50:06	-	1.25	
237	Unk	PCB-208	150.00	5.08e+07	1.34 y	49:09	-	0.992	
238	IS	13C-PCB-208	100.00	3.41e+07	0.80 y	49:08	-	1.27	
239	Unk	PCB-207	150.00	4.48e+07	1.35 y	49:27	-	1.01	
240	Unk	PCB-206	150.00	3.64e+07	1.30 y	51:18	-	0.965	
241	IS	13C-PCB-206	100.00	2.52e+07	0.79 y	51:18	-	0.934	
242	Unk	PCB-209	150.00	4.71e+07	1.20 y	52:29	-	1.13	
243	IS	13C-PCB-209	100.00	2.79e+07	1.20 y	52:29	-	1.04	
244	RS	13C-PCB-194	100.00	2.69e+07	0.93 y	49:51	2.69e+05	-	

Analyst: [illegible] Date: 8/1/18

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/31/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JUL18Z Sam:1 Analysis Date: 31-JUL-18 10:12:49

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	47.4	37.5 - 62.5
PCB-3	M/M+2	3.26	2.66-3.60	y	48.9	37.5 - 62.5
PCB-4	M/M+2	1.63	1.33-1.79	y	45.5	37.5 - 62.5
PCB-15	M/M+2	1.62	1.33-1.79	y	46.1	37.5 - 62.5
PCB-19	M/M+2	1.11	0.88-1.20	y	48.5	37.5 - 62.5
PCB-37	M/M+2	1.14	0.88-1.20	y	42.0	37.5 - 62.5
PCB-54	M/M+2	0.75	0.65-0.89	y	51.5	37.5 - 62.5
PCB-77	M/M+2	0.81	0.65-0.89	y	51.9	37.5 - 62.5
PCB-81	M/M+2	0.82	0.65-0.89	y	50.8	37.5 - 62.5
PCB-104	M+2/M+4	1.60	1.32-1.78	y	48.9	37.5 - 62.5
PCB-105	M+2/M+4	1.62	1.32-1.78	y	48.0	37.5 - 62.5
PCB-114	M+2/M+4	1.68	1.32-1.78	y	46.5	37.5 - 62.5
PCB-118	M+2/M+4	1.66	1.32-1.78	y	55.0	37.5 - 62.5
PCB-123	M+2/M+4	1.62	1.32-1.78	y	40.7	37.5 - 62.5
PCB-126	M+2/M+4	1.65	1.32-1.78	y	47.0	37.5 - 62.5
PCB-155	M+2/M+4	1.31	1.05-1.43	y	52.2	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	51.1	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	46.4	37.5 - 62.5
PCB-167	M+2/M+4	1.29	1.05-1.43	y	52.9	37.5 - 62.5
PCB-169	M+2/M+4	1.28	1.05-1.43	y	50.1	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	49.5	37.5 - 62.5
PCB-189	M+2/M+4	1.08	0.89-1.21	y	49.8	37.5 - 62.5
PCB-202	M+2/M+4	0.99	0.76-1.02	y	58.0	37.5 - 62.5
PCB-205	M+2/M+4	0.93	0.76-1.02	y	48.5	37.5 - 62.5
PCB-206	M+4/M+6	1.33	1.13-1.53	y	48.8	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	49.2	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	53.8	37.5 - 62.5

Analyst: _____ Date: 8/1/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/31/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JUL18Z Sam:1 Analysis Date: 31-JUL-18 10:12:49

	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	3.29	2.66-3.60	y	100	50.0 - 145
13C-PCB-3	M/M+2	3.44	2.66-3.60	y	98.4	50.0 - 145
13C-PCB-4	M/M+2	1.66	1.33-1.79	y	98.5	50.0 - 145
13C-PCB-15	M/M+2	1.65	1.33-1.79	y	95.2	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	102	50.0 - 145
13C-PCB-37	M/M+2	1.08	0.88-1.20	y	93.1	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	103	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	86.4	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	81.9	50.0 - 145
13C-PCB-104	M+2/M+4	1.64	1.32-1.78	y	110	50.0 - 145
13C-PCB-105	M+2/M+4	1.64	1.32-1.78	y	98.3	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	94.0	50.0 - 145
13C-PCB-118	M+2/M+4	1.64	1.32-1.78	y	93.2	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	92.3	50.0 - 145
13C-PCB-126	M+2/M+4	1.64	1.32-1.78	y	95.6	50.0 - 145
13C-PCB-155	M+2/M+4	1.38	1.05-1.43	y	94.9	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	97.5	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	101	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	99.0	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	95.9	50.0 - 145
13C-PCB-188	M+2/M+4	1.10	0.89-1.21	y	113	50.0 - 145
13C-PCB-189	M+2/M+4	1.12	0.89-1.21	y	99.2	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	99.2	50.0 - 145
13C-PCB-205	M+2/M+4	0.92	0.76-1.02	y	103	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	101	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	102	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	93.4	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.03	0.88-1.20	y	92.3	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	96.5	75.0 - 125
13C-PCB-178	M+2/M+4	1.11	0.89-1.21	y	104	75.0 - 125

Analyst: _____ Date: 8/1/18

FAL ID: ST073118Z1 Filename: 31JUL18Z Sam:1 Acquired: 31-JUL-18 10:12:49 ICal: DAILY209FAL4-7-31-18
Client ID: 1668 CS3 170805A ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.43e+07	3.25 y	14:32	1.28	47.4		2.50	-	-	*	
13C-PCB-1	7.29e+07	3.29 y	14:31	0.83	100		2.50				100
PCB-3	4.46e+07	3.26 y	16:58	1.27	48.9		2.50	-	-	*	
13C-PCB-3	7.20e+07	3.44 y	16:57	0.83	98.4		2.50				98.4
PCB-4	3.88e+07	1.63 y	18:12	1.44	45.5		2.50	-	-	*	
13C-PCB-4	5.92e+07	1.66 y	18:10	0.68	98.5		2.50				98.5
PCB-15	5.39e+07	1.62 y	23:45	1.38	46.1		2.50	-	-	*	
13C-PCB-15	8.49e+07	1.65 y	23:44	1.01	95.2		2.50				95.2
PCB-19	2.00e+07	1.11 y	22:05	1.31	48.5		2.50	-	-	*	
13C-PCB-19	3.15e+07	1.09 y	22:04	0.35	102		2.50				102
13C-PCB-9	8.79e+07	1.63 y	19:52	-	118		2.50				
PCB-37	2.73e+07	1.14 y	30:25	1.40	42.0		2.50	-	-	*	
13C-PCB-37	4.65e+07	1.08 y	30:24	1.54	93.1		2.50				93.1
PCB-54	2.50e+07	0.75 y	25:37	1.13	51.5		2.50	-	-	*	
13C-PCB-54	4.29e+07	0.79 y	25:36	1.28	103		2.50				103
PCB-104	1.68e+07	1.60 y	30:04	1.27	48.9		2.50	-	-	*	
13C-PCB-104	2.71e+07	1.64 y	30:02	0.76	110		2.50				110
13C-PCB-28	5.62e+07	1.03 y	26:41	1.88	92.3		2.50				92.3
13C-PCB-52	3.25e+07	0.79 y	28:58	-	120		2.50				
PCB-81	3.03e+07	0.82 y	36:11	1.25	50.8		2.50	-	-	*	
13C-PCB-81	4.77e+07	0.79 y	36:10	1.79	81.9		2.50				81.9
PCB-77	2.94e+07	0.81 y	36:45	1.17	51.9		2.50	-	-	*	
13C-PCB-77	4.84e+07	0.79 y	36:44	1.72	86.4		2.50				86.4
PCB-155	1.63e+07	1.31 y	34:14	1.21	52.2		2.50	-	-	*	
13C-PCB-155	2.58e+07	1.38 y	34:12	0.83	94.9		2.50				94.9
13C-PCB-111	3.87e+07	1.61 y	36:19	1.23	96.5		2.50				96.5
13C-PCB-101	3.25e+07	1.63 y	34:39	-	125		2.50				
PCB-123	2.82e+07	1.62 y	38:23	1.50	40.7		2.50	-	-	*	
13C-PCB-123	4.62e+07	1.61 y	38:22	1.55	92.3		2.50				92.3
PCB-118	3.21e+07	1.66 y	38:33	1.11	55.0		2.50	-	-	*	
13C-PCB-118	5.24e+07	1.64 y	38:31	1.75	93.2		2.50				93.2
PCB-114	2.90e+07	1.68 y	39:09	1.30	46.5		2.50	-	-	*	
13C-PCB-114	4.78e+07	1.61 y	39:09	1.58	94.0		2.50				94.0
PCB-105	2.80e+07	1.62 y	39:59	1.24	48.0		2.50	-	-	*	
13C-PCB-105	4.70e+07	1.64 y	39:57	1.49	98.3		2.50				98.3
PCB-126	2.59e+07	1.65 y	42:07	1.28	47.0		2.50	-	-	*	
13C-PCB-126	4.31e+07	1.64 y	42:07	1.40	95.6		2.50				95.6
PCB-167	2.12e+07	1.29 y	43:28	1.08	52.9		2.50	-	-	*	
13C-PCB-167	3.70e+07	1.28 y	43:28	1.16	99.0		2.50				99.0
PCB-156	1.99e+07	1.27 y	44:42	1.13	51.1		2.50	-	-	*	
13C-PCB-156	3.45e+07	1.30 y	44:40	1.10	97.5		2.50				97.5
PCB-157	2.05e+07	1.26 y	44:57	1.21	46.4		2.50	-	-	*	
13C-PCB-157	3.67e+07	1.29 y	44:57	1.13	101		2.50				101
PCB-169	1.86e+07	1.28 y	46:50	1.13	50.1		2.50	-	-	*	
13C-PCB-169	3.28e+07	1.30 y	46:49	1.06	95.9		2.50				95.9
PCB-188	1.76e+07	1.08 y	39:44	1.18	49.5		2.50	-	-	*	
13C-PCB-188	3.02e+07	1.10 y	39:42	0.83	113		2.50				113
PCB-189	1.38e+07	1.08 y	48:29	1.20	49.8		2.50	-	-	*	
13C-PCB-189	2.31e+07	1.12 y	48:27	0.72	99.2		2.50				99.2
PCB-202	9.47e+06	0.99 y	44:50	1.07	58.0		2.50	-	-	*	
13C-PCB-202	1.53e+07	0.92 y	44:48	0.48	99.2		2.50				99.2
13C-PCB-178	2.05e+07	1.11 y	42:20	0.61	104		2.50				104
13C-PCB-138	3.22e+07	1.31 y	41:34	-	116		2.50				

FAL ID: ST073118Z1 Filename: 31JUL18Z Sam:1 Acquired: 31-JUL-18 10:12:49 ICal: DAILY209FAL4-7-31-18 2 of 2
Client ID: 1668 CS3 170805A ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 1.000

PCB-205	2.46e+07	0.93	y	50:07	1.19	48.5	2.50	-	-	*	
13C-PCB-205	4.27e+07	0.92	y	50:06	1.25	103	2.50				103
PCB-208	2.11e+07	1.35	y	49:10	0.99	49.2	2.50	-	-	*	
13C-PCB-208	4.32e+07	0.81	y	49:08	1.27	102	2.50				102
PCB-206	1.49e+07	1.33	y	51:18	0.96	48.8	2.50	-	-	*	
13C-PCB-206	3.16e+07	0.78	y	51:18	0.93	101	2.50				101
PCB-209	1.96e+07	1.20	y	52:29	1.13	53.8	2.50	-	-	*	
13C-PCB-209	3.24e+07	1.21	y	52:29	1.04	93.4	2.50				93.4
13C-PCB-194	3.34e+07	0.92	y	49:51	-	124	2.50				

Analyst: _____ Date: 8/1/18

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/31/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JUL18Z Sam:16 Analysis Date: 1-AUG-18 00:51:09

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.21	2.66-3.60	y	51.2	37.5 - 62.5
PCB-3	M/M+2	3.14	2.66-3.60	y	52.0	37.5 - 62.5
PCB-4	M/M+2	1.64	1.33-1.79	y	46.4	37.5 - 62.5
PCB-15	M/M+2	1.63	1.33-1.79	y	48.5	37.5 - 62.5
PCB-19	M/M+2	1.09	0.88-1.20	y	51.0	37.5 - 62.5
PCB-37	M/M+2	1.12	0.88-1.20	y	44.8	37.5 - 62.5
PCB-54	M/M+2	0.76	0.65-0.89	y	49.9	37.5 - 62.5
PCB-77	M/M+2	0.84	0.65-0.89	y	52.7	37.5 - 62.5
PCB-81	M/M+2	0.85	0.65-0.89	y	52.2	37.5 - 62.5
PCB-104	M+2/M+4	1.60	1.32-1.78	y	48.1	37.5 - 62.5
PCB-105	M+2/M+4	1.69	1.32-1.78	y	49.2	37.5 - 62.5
PCB-114	M+2/M+4	1.65	1.32-1.78	y	47.0	37.5 - 62.5
PCB-118	M+2/M+4	1.65	1.32-1.78	y	56.4	37.5 - 62.5
PCB-123	M+2/M+4	1.61	1.32-1.78	y	41.2	37.5 - 62.5
PCB-126	M+2/M+4	1.66	1.32-1.78	y	47.2	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	50.5	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	51.4	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	48.3	37.5 - 62.5
PCB-167	M+2/M+4	1.27	1.05-1.43	y	53.5	37.5 - 62.5
PCB-169	M+2/M+4	1.29	1.05-1.43	y	50.8	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	47.9	37.5 - 62.5
PCB-189	M+2/M+4	1.08	0.89-1.21	y	50.0	37.5 - 62.5
PCB-202	M+2/M+4	0.93	0.76-1.02	y	57.1	37.5 - 62.5
PCB-205	M+2/M+4	0.93	0.76-1.02	y	49.3	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	50.1	37.5 - 62.5
PCB-208	M+4/M+6	1.33	1.13-1.53	y	49.6	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	53.9	37.5 - 62.5

Analyst: [signature] Date: 8/1/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/31/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JUL18Z Sam:16 Analysis Date: 1-AUG-18 00:51:09

	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	3.32	2.66-3.60	y	98.3	50.0 - 145
13C-PCB-3	M/M+2	3.38	2.66-3.60	y	96.9	50.0 - 145
13C-PCB-4	M/M+2	1.65	1.33-1.79	y	98.7	50.0 - 145
13C-PCB-15	M/M+2	1.64	1.33-1.79	y	100	50.0 - 145
13C-PCB-19	M/M+2	1.15	0.88-1.20	y	91.2	50.0 - 145
13C-PCB-37	M/M+2	1.10	0.88-1.20	y	111	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	108	50.0 - 145
13C-PCB-77	M/M+2	0.77	0.65-0.89	y	106	50.0 - 145
13C-PCB-81	M/M+2	0.77	0.65-0.89	y	94.4	50.0 - 145
13C-PCB-104	M+2/M+4	1.62	1.32-1.78	y	101	50.0 - 145
13C-PCB-105	M+2/M+4	1.62	1.32-1.78	y	111	50.0 - 145
13C-PCB-114	M+2/M+4	1.65	1.32-1.78	y	106	50.0 - 145
13C-PCB-118	M+2/M+4	1.63	1.32-1.78	y	105	50.0 - 145
13C-PCB-123	M+2/M+4	1.62	1.32-1.78	y	100	50.0 - 145
13C-PCB-126	M+2/M+4	1.65	1.32-1.78	y	118	50.0 - 145
13C-PCB-155	M+2/M+4	1.33	1.05-1.43	y	97.5	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	107	50.0 - 145
13C-PCB-157	M+2/M+4	1.34	1.05-1.43	y	114	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	116	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	117	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	109	50.0 - 145
13C-PCB-189	M+2/M+4	1.09	0.89-1.21	y	116	50.0 - 145
13C-PCB-202	M+2/M+4	0.97	0.76-1.02	y	99.1	50.0 - 145
13C-PCB-205	M+2/M+4	0.92	0.76-1.02	y	115	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	116	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	102	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	97.1	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.12	0.88-1.20	y	101	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	99.1	75.0 - 125
13C-PCB-178	M+2/M+4	1.11	0.89-1.21	y	101	75.0 - 125

Analyst: _____ Date: 8/1/18

FAL ID: ST073118Z2 Filename: 31JUL18Z Sam:16 Acquired: 1-AUG-18 00:51:09 ICal: DAILY209FAL4-7-31-18
Client ID: 1668 CS3 170805A ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 1.000

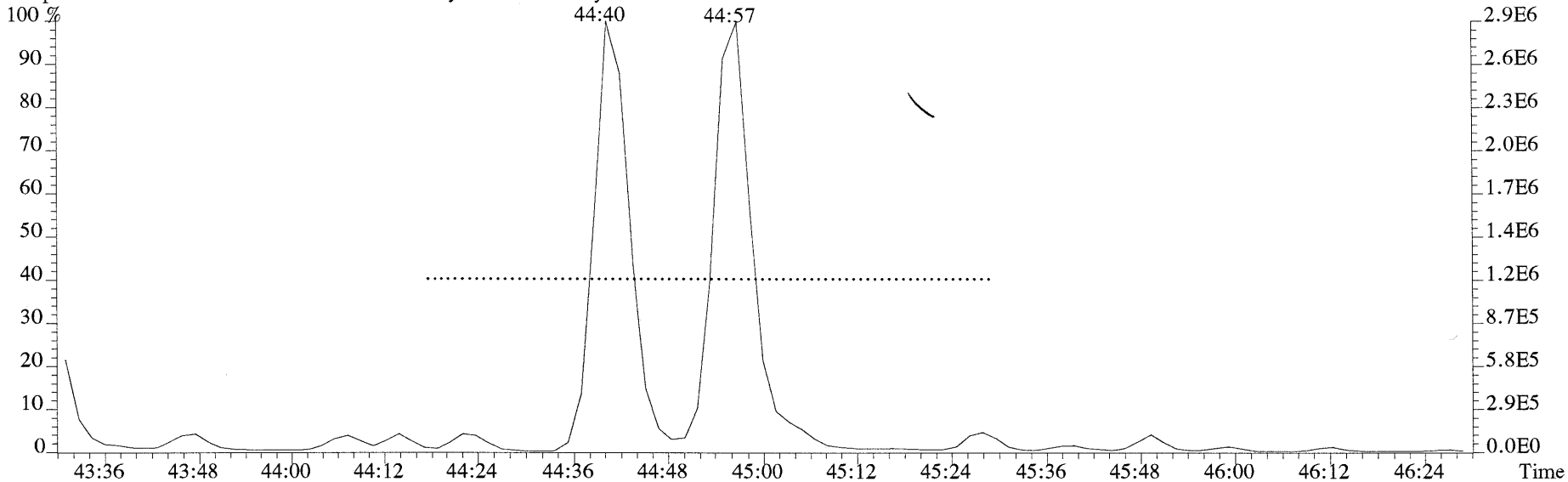
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	5.43e+07	3.21 y	14:32	1.28	51.2		2.50	-	-	*	
13C-PCB-1	8.29e+07	3.32 y	14:31	0.83	98.3		2.50				98.3
PCB-3	5.43e+07	3.14 y	16:58	1.27	52.0		2.50	-	-	*	
13C-PCB-3	8.23e+07	3.38 y	16:57	0.83	96.9		2.50				96.9
PCB-4	4.60e+07	1.64 y	18:12	1.44	46.4		2.50	-	-	*	
13C-PCB-4	6.89e+07	1.65 y	18:10	0.68	98.7		2.50				98.7
PCB-15	6.93e+07	1.63 y	23:45	1.38	48.5		2.50	-	-	*	
13C-PCB-15	1.04e+08	1.64 y	23:44	1.01	100		2.50				100
PCB-19	2.19e+07	1.09 y	22:05	1.31	51.0		2.50	-	-	*	
13C-PCB-19	3.28e+07	1.15 y	22:03	0.35	91.2		2.50				91.2
13C-PCB-9	1.02e+08	1.67 y	19:52	-	137		2.50				
PCB-37	3.92e+07	1.12 y	30:24	1.40	44.8		2.50	-	-	*	
13C-PCB-37	6.27e+07	1.10 y	30:23	1.54	111		2.50				111
PCB-54	2.89e+07	0.76 y	25:37	1.13	49.9		2.50	-	-	*	
13C-PCB-54	5.11e+07	0.79 y	25:36	1.28	108		2.50				108
PCB-104	1.72e+07	1.60 y	30:02	1.27	48.1		2.50	-	-	*	
13C-PCB-104	2.82e+07	1.62 y	30:01	0.76	101		2.50				101
13C-PCB-28	6.99e+07	1.12 y	26:41	1.88	101		2.50				101
13C-PCB-52	3.69e+07	0.78 y	28:57	-	136		2.50				
PCB-81	3.90e+07	0.85 y	36:10	1.25	52.2		2.50	-	-	*	
13C-PCB-81	5.99e+07	0.77 y	36:09	1.79	94.4		2.50				94.4
PCB-77	3.99e+07	0.84 y	36:44	1.17	52.7		2.50	-	-	*	
13C-PCB-77	6.47e+07	0.77 y	36:43	1.72	106		2.50				106
PCB-155	1.77e+07	1.29 y	34:12	1.21	50.5		2.50	-	-	*	
13C-PCB-155	2.89e+07	1.33 y	34:11	0.83	97.5		2.50				97.5
13C-PCB-111	4.33e+07	1.61 y	36:18	1.23	99.1		2.50				99.1
13C-PCB-101	3.55e+07	1.64 y	34:38	-	136		2.50				
PCB-123	3.50e+07	1.61 y	38:22	1.50	41.2		2.50	-	-	*	
13C-PCB-123	5.66e+07	1.62 y	38:20	1.55	100		2.50				100
PCB-118	4.18e+07	1.65 y	38:31	1.11	56.4		2.50	-	-	*	
13C-PCB-118	6.65e+07	1.63 y	38:30	1.75	105		2.50				105
PCB-114	3.73e+07	1.65 y	39:09	1.30	47.0		2.50	-	-	*	
13C-PCB-114	6.08e+07	1.65 y	39:08	1.58	106		2.50				106
PCB-105	3.67e+07	1.69 y	39:57	1.24	49.2		2.50	-	-	*	
13C-PCB-105	6.00e+07	1.62 y	39:57	1.49	111		2.50				111
PCB-126	3.62e+07	1.66 y	42:07	1.28	47.2		2.50	-	-	*	
13C-PCB-126	5.99e+07	1.65 y	42:05	1.40	118		2.50				118
PCB-167	2.84e+07	1.27 y	43:28	1.08	53.5		2.50	-	-	*	
13C-PCB-167	4.90e+07	1.26 y	43:26	1.16	116		2.50				116
PCB-156	2.48e+07	1.26 y	44:40	1.13	51.4		2.50	-	-	*	
13C-PCB-156	4.28e+07	1.29 y	44:40	1.10	107		2.50				107
PCB-157	2.70e+07	1.27 y	44:57	1.21	48.3		2.50	-	-	*	
13C-PCB-157	4.65e+07	1.34 y	44:55	1.13	114		2.50				114
PCB-169	2.60e+07	1.29 y	46:48	1.13	50.8		2.50	-	-	*	
13C-PCB-169	4.52e+07	1.29 y	46:47	1.06	117		2.50				117
PCB-188	1.87e+07	1.08 y	39:42	1.18	47.9		2.50	-	-	*	
13C-PCB-188	3.30e+07	1.07 y	39:41	0.83	109		2.50				109
PCB-189	1.82e+07	1.08 y	48:27	1.20	50.0		2.50	-	-	*	
13C-PCB-189	3.04e+07	1.09 y	48:27	0.72	116		2.50				116
PCB-202	1.05e+07	0.93 y	44:48	1.07	57.1		2.50	-	-	*	
13C-PCB-202	1.72e+07	0.97 y	44:47	0.48	99.1		2.50				99.1
13C-PCB-178	2.23e+07	1.11 y	42:19	0.61	101		2.50				101
13C-PCB-138	3.63e+07	1.29 y	41:34	-	131		2.50				

FAL ID: ST073118Z2 Filename: 31JUL18Z Sam:16 Acquired: 1-AUG-18 00:51:09 ICal: DAILY209FAL4-7-31-18 2 of 2
Client ID: 1668 CS3 170805A ConCal: ST073118Z1 EndCal: ST073118Z2
Results: 11719-7 GC Column: DB1MS Amount: 1.000

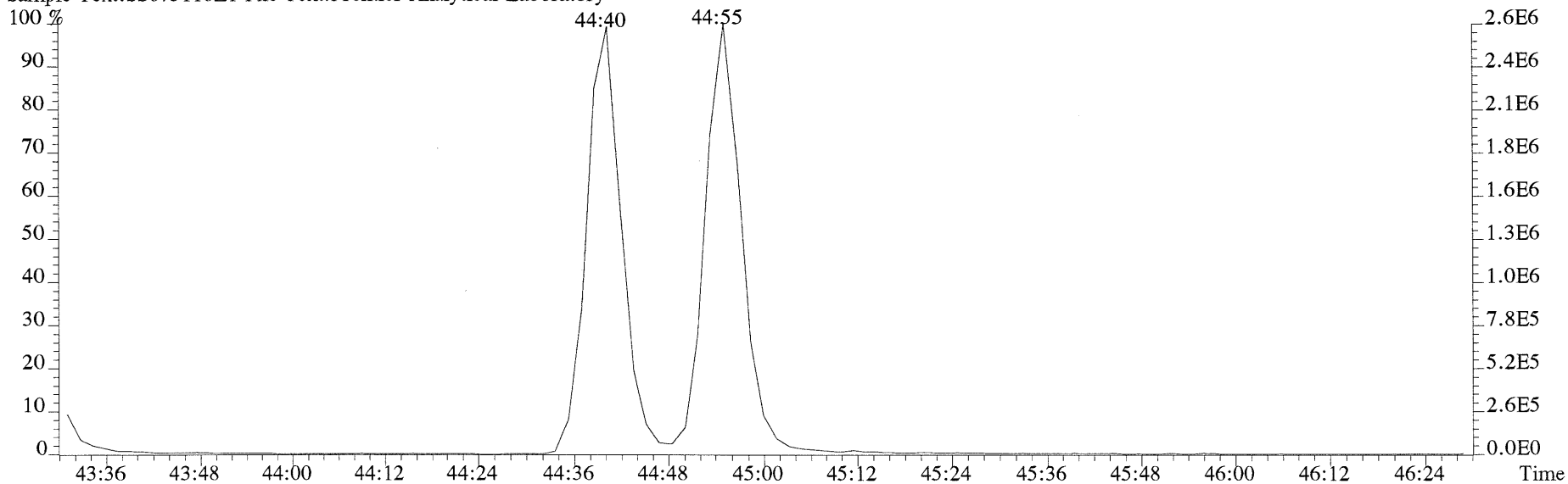
PCB-205	3.15e+07	0.93	y	50:06	1.19	49.3	2.50	-	-	*	
13C-PCB-205	5.39e+07	0.92	y	50:06	1.25	115	2.50				115
PCB-208	2.39e+07	1.33	y	49:09	0.99	49.6	2.50	-	-	*	
13C-PCB-208	4.86e+07	0.80	y	49:08	1.27	102	2.50				102
PCB-206	1.97e+07	1.37	y	51:18	0.96	50.1	2.50	-	-	*	
13C-PCB-206	4.07e+07	0.79	y	51:17	0.93	116	2.50				116
PCB-209	2.29e+07	1.18	y	52:28	1.13	53.9	2.50	-	-	*	
13C-PCB-209	3.78e+07	1.21	y	52:28	1.04	97.1	2.50				97.1
13C-PCB-194	3.75e+07	0.93	y	49:51	-	139	2.50				

Analyst: _____ Date: 8/1/18

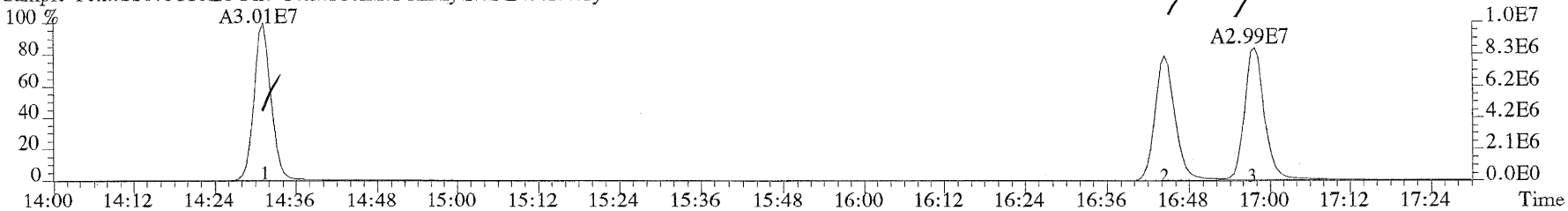
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



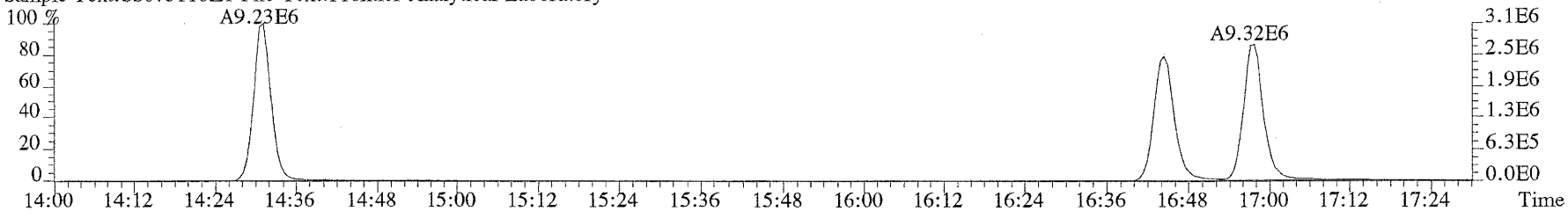
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



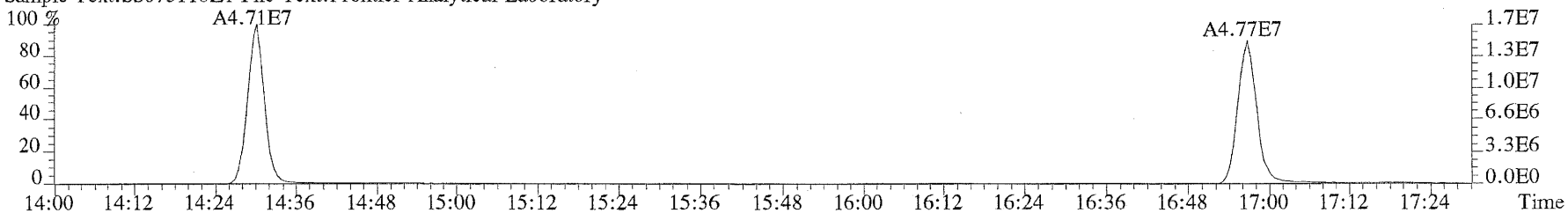
File:31JUL18Z #1-783 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



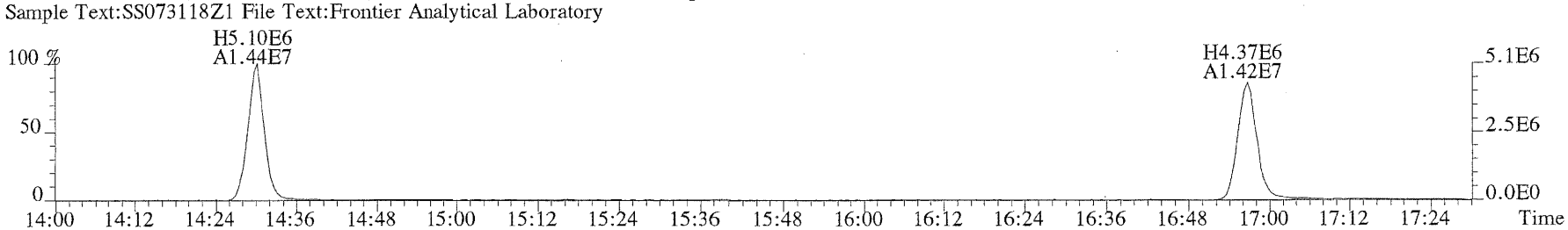
File:31JUL18Z #1-783 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



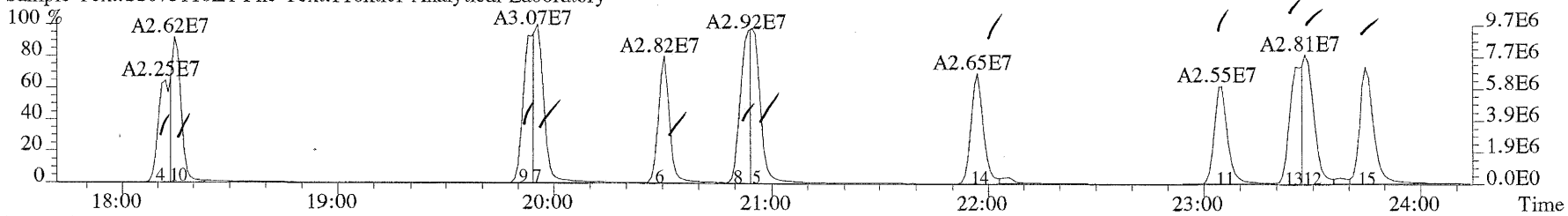
File:31JUL18Z #1-783 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



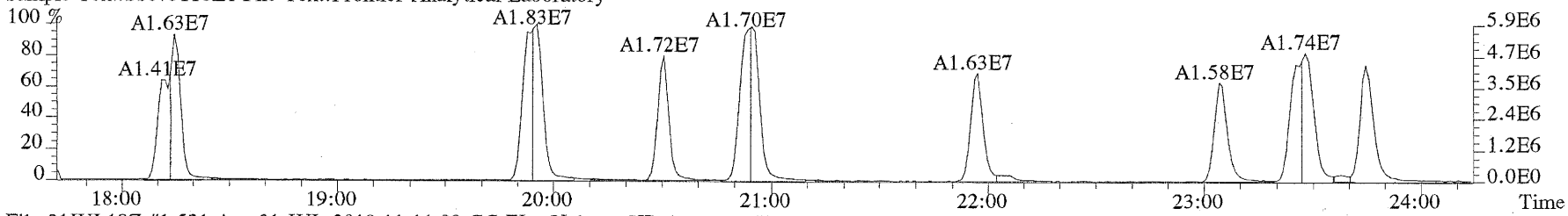
File:31JUL18Z #1-783 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



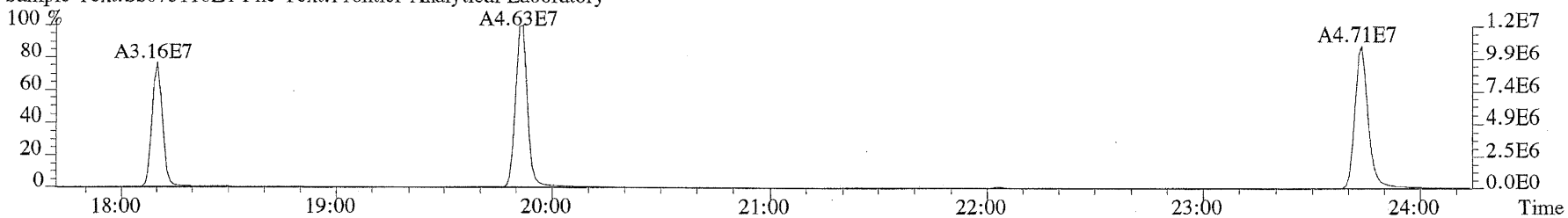
File:31JUL18Z #1-521 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



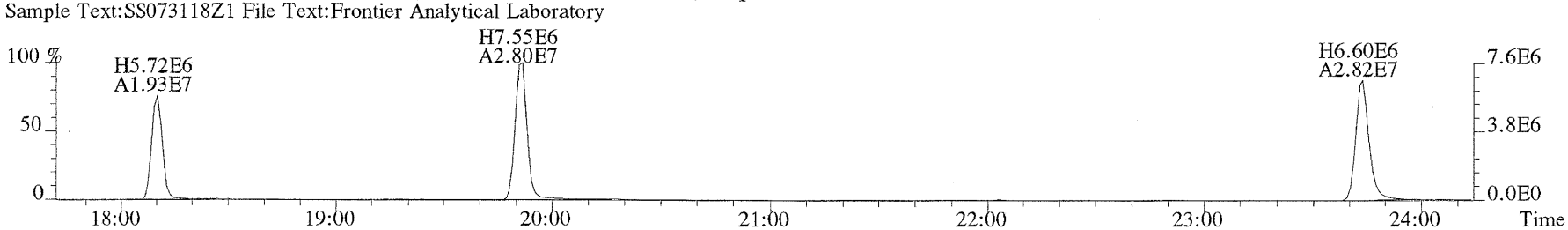
File:31JUL18Z #1-521 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



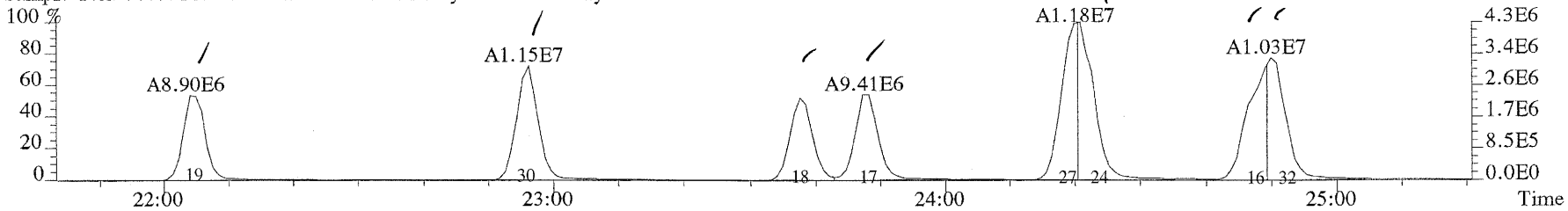
File:31JUL18Z #1-521 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



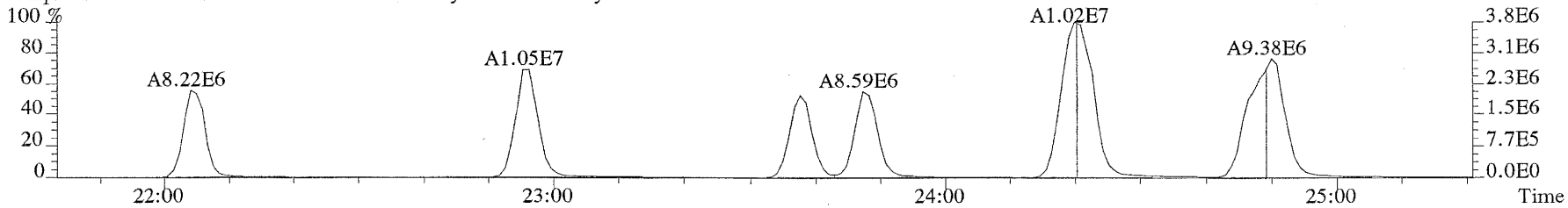
File:31JUL18Z #1-521 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



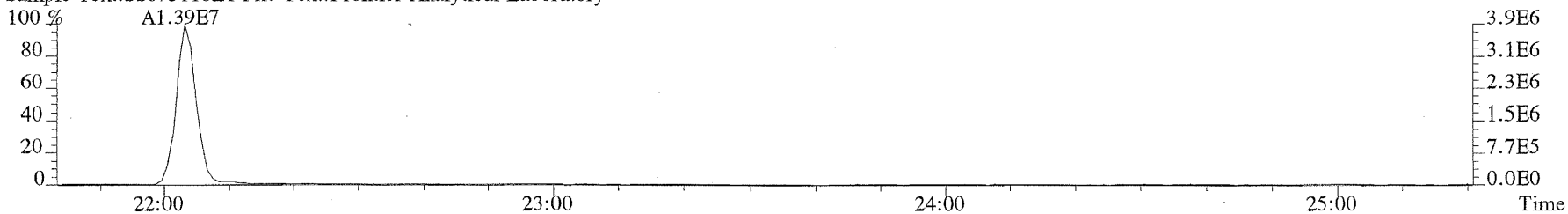
File:31JUL18Z #1-521 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



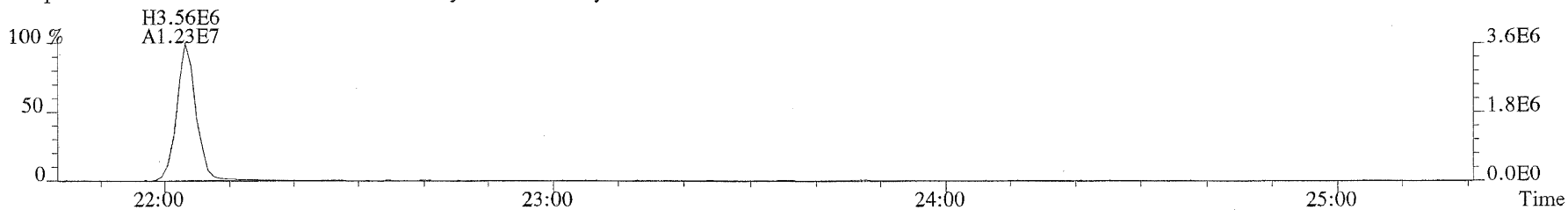
File:31JUL18Z #1-521 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



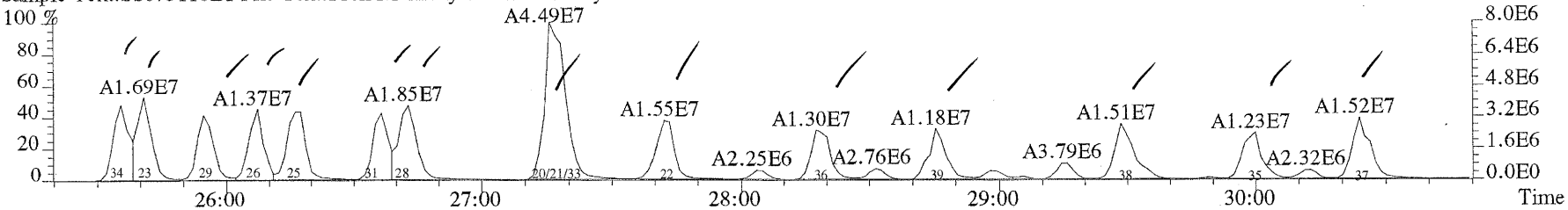
File:31JUL18Z #1-521 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



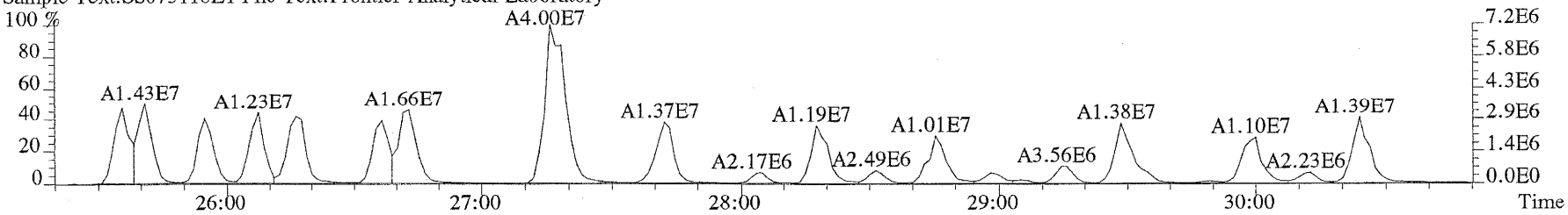
File:31JUL18Z #1-521 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



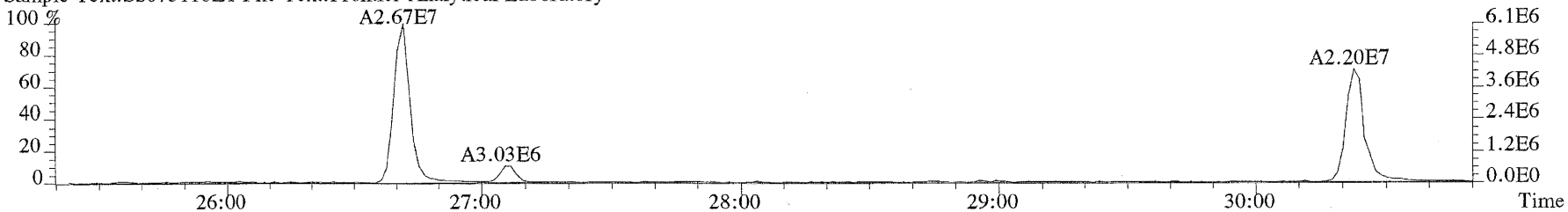
File:31JUL18Z #1-401 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



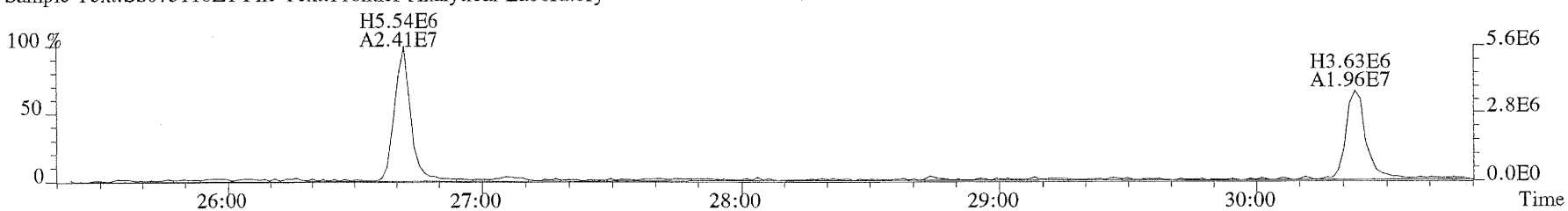
File:31JUL18Z #1-401 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



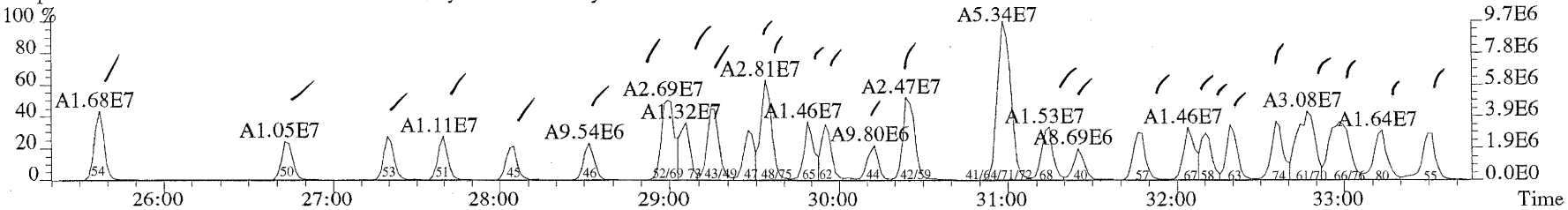
File:31JUL18Z #1-401 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



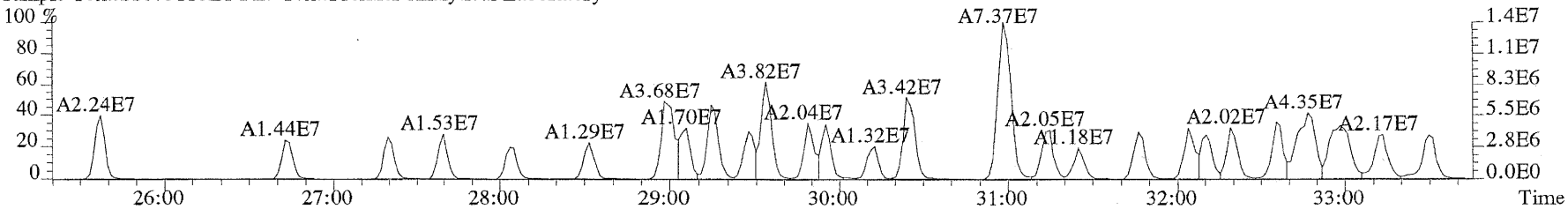
File:31JUL18Z #1-401 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



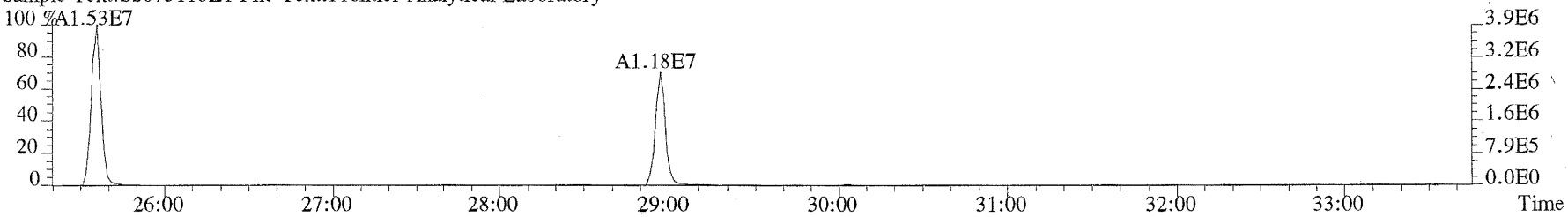
File:31JUL18Z #1-401 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



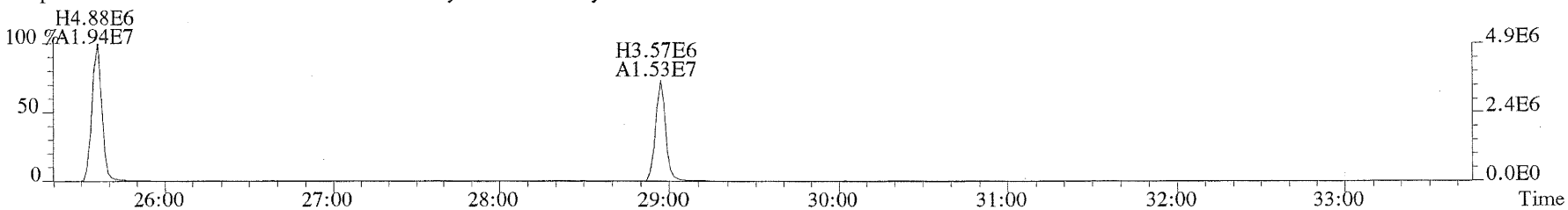
File:31JUL18Z #1-401 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



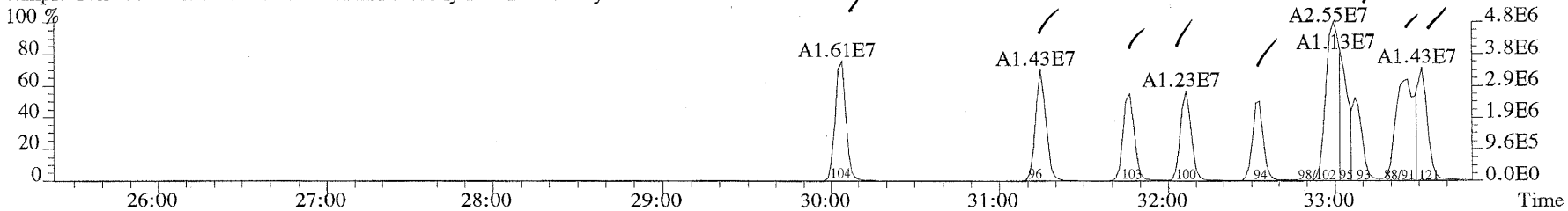
File:31JUL18Z #1-401 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



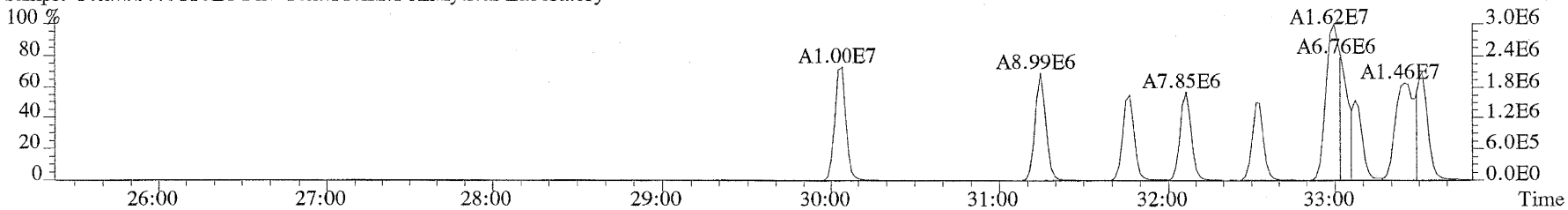
File:31JUL18Z #1-401 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



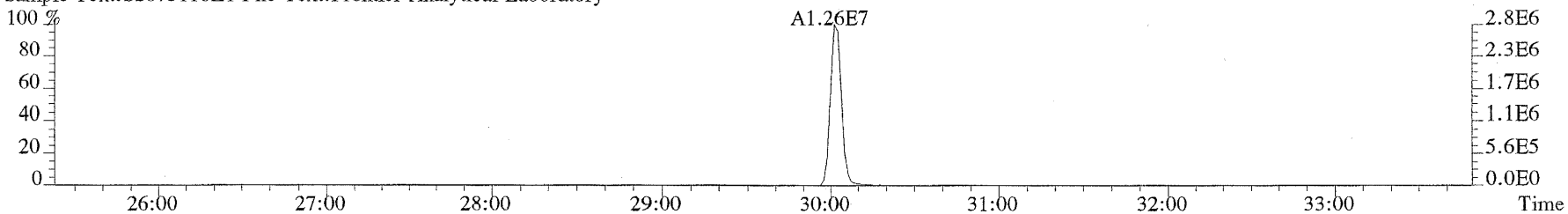
File:31JUL18Z #1-401 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



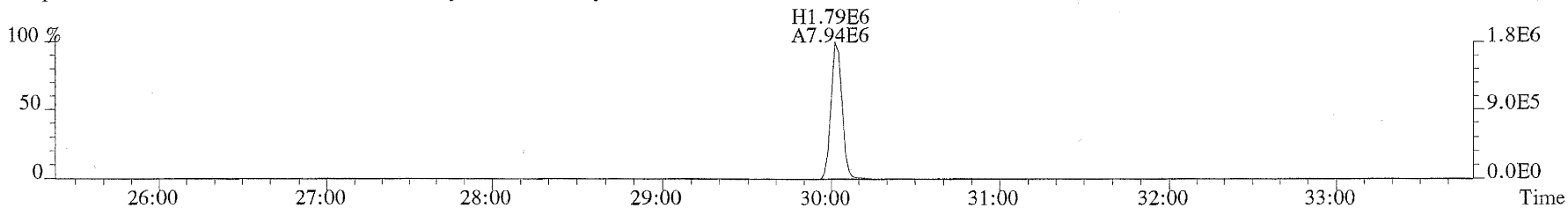
File:31JUL18Z #1-401 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



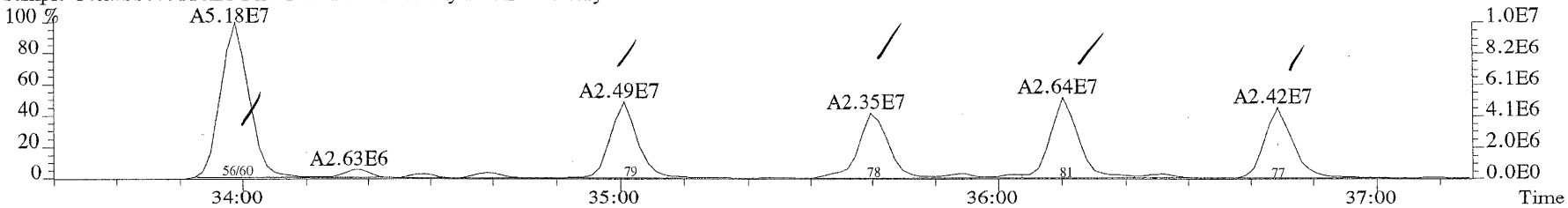
File:31JUL18Z #1-401 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



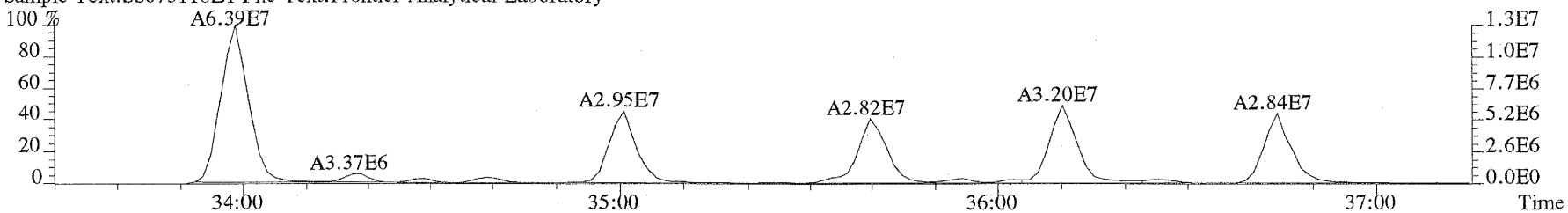
File:31JUL18Z #1-401 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



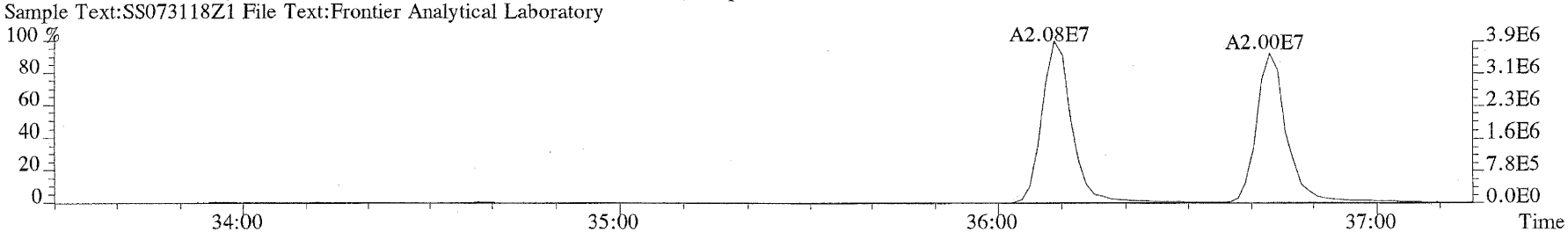
File:31JUL18Z #1-183 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



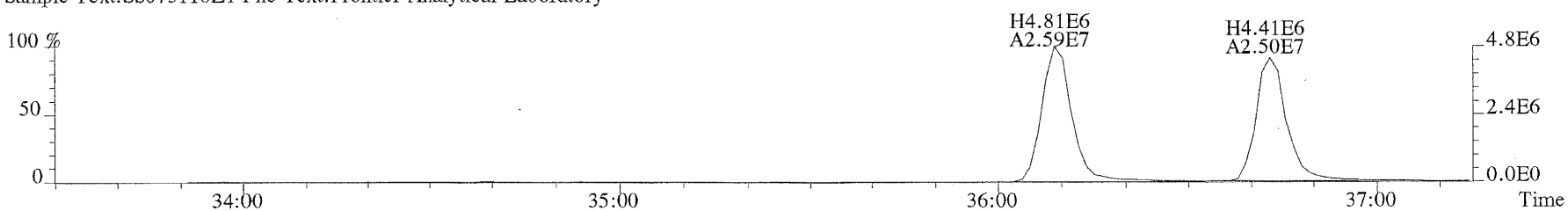
File:31JUL18Z #1-183 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



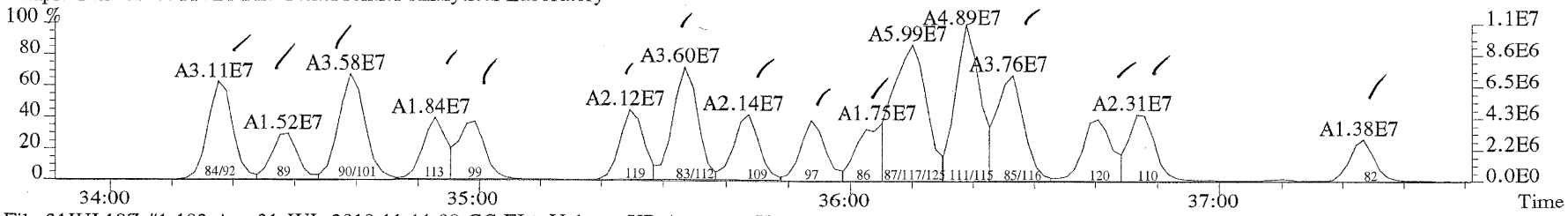
File:31JUL18Z #1-183 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



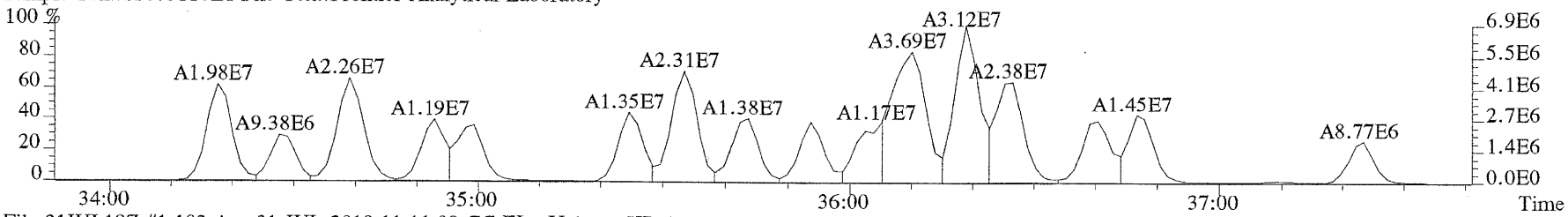
File:31JUL18Z #1-183 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



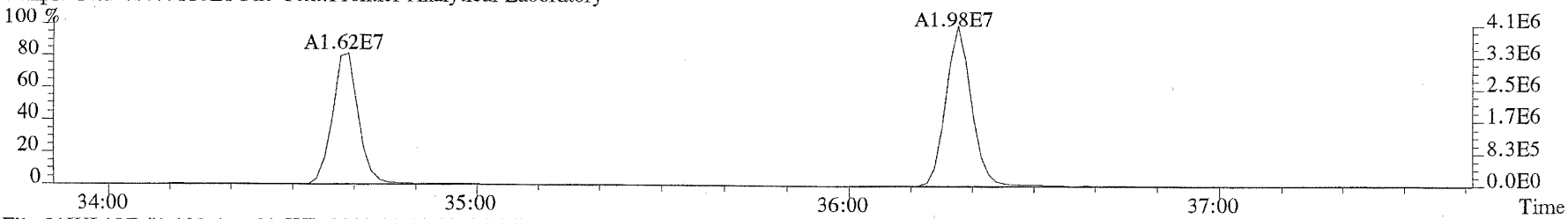
File:31JUL18Z #1-183 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



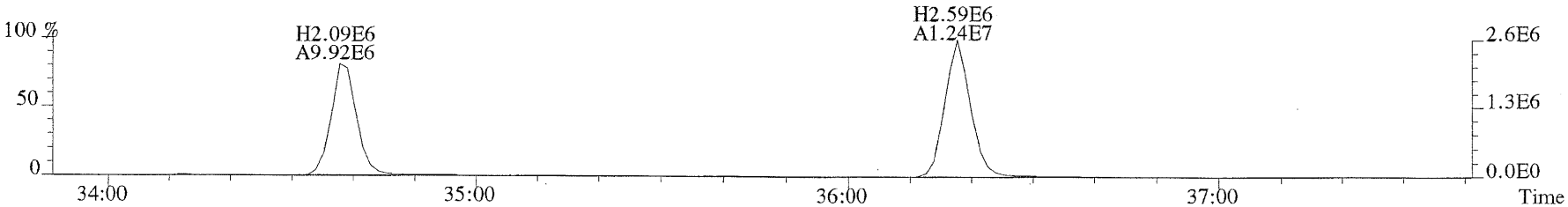
File:31JUL18Z #1-183 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



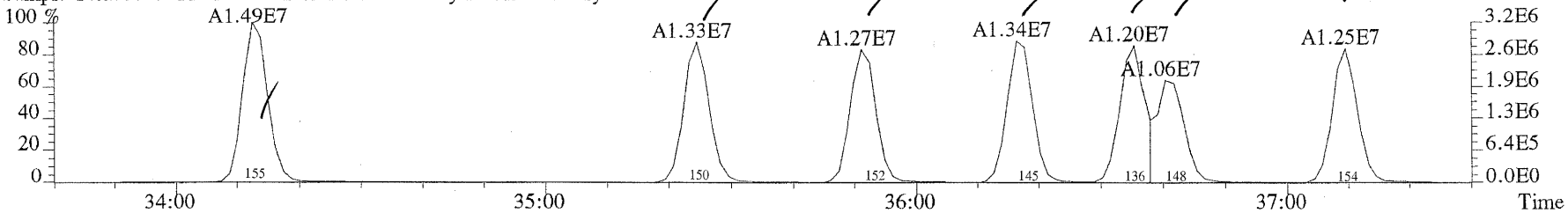
File:31JUL18Z #1-183 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



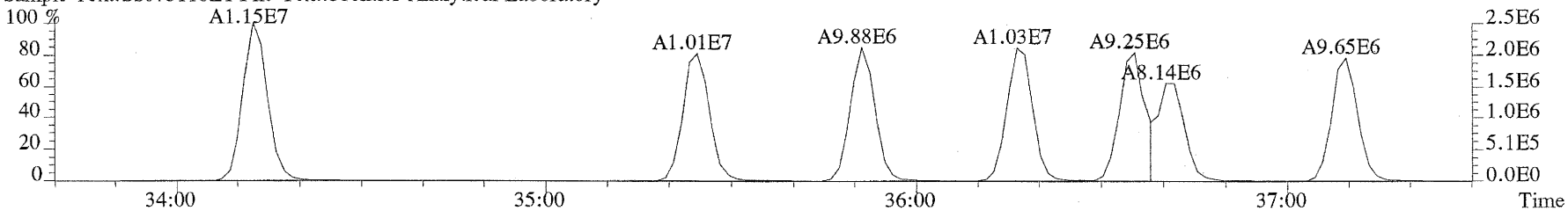
File:31JUL18Z #1-183 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



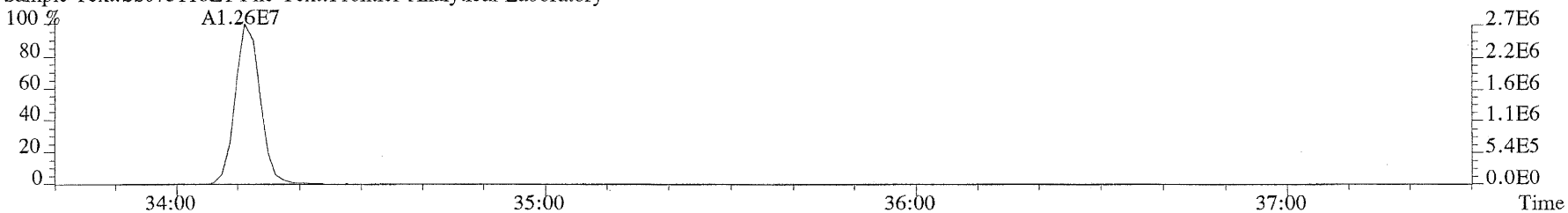
File:31JUL18Z #1-183 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



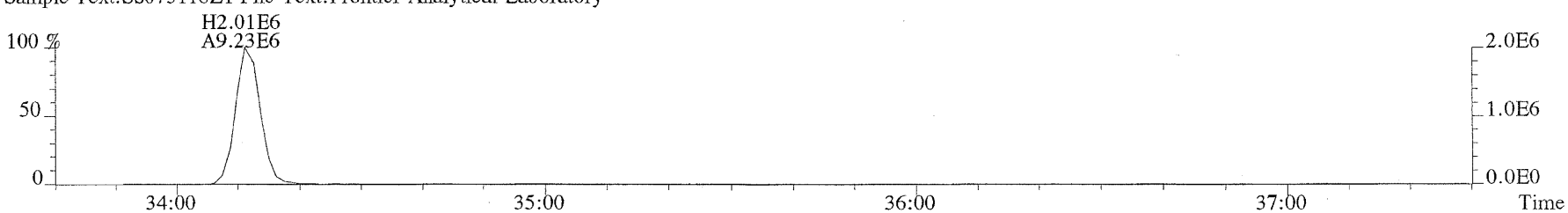
File:31JUL18Z #1-183 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



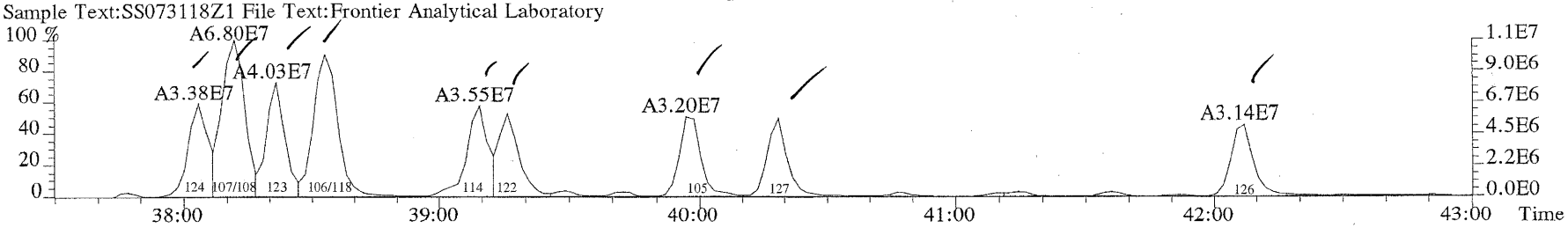
File:31JUL18Z #1-183 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



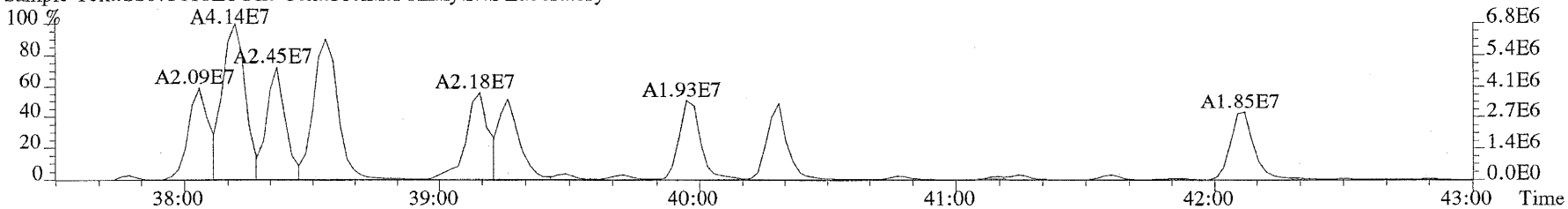
File:31JUL18Z #1-183 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



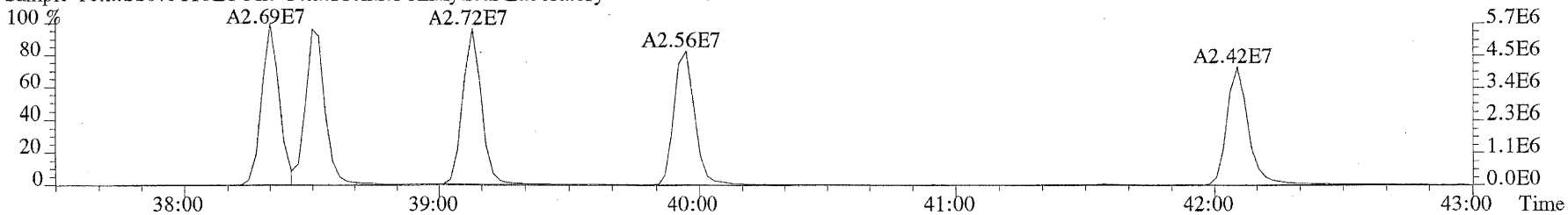
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



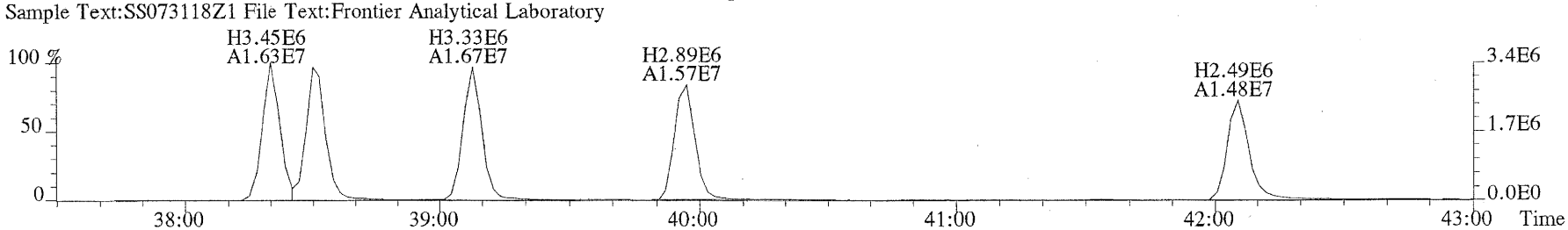
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



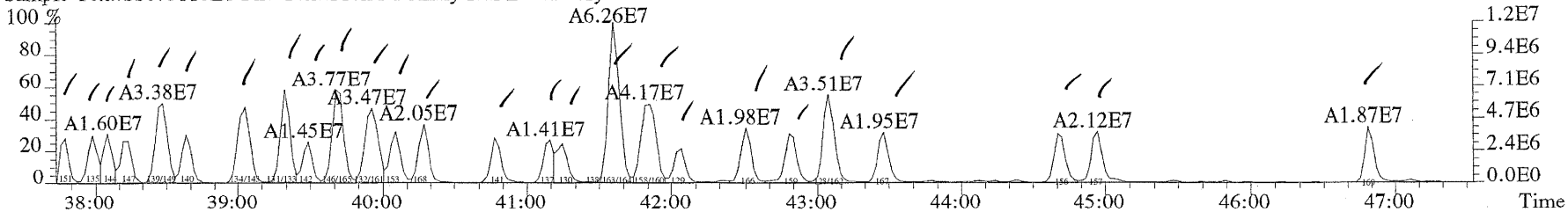
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



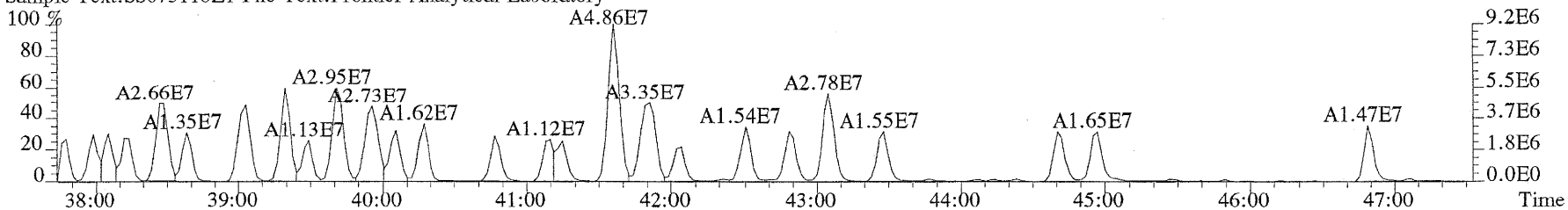
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



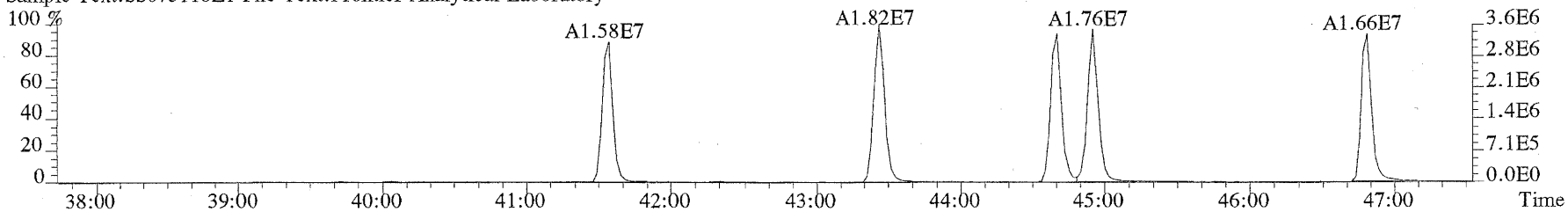
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



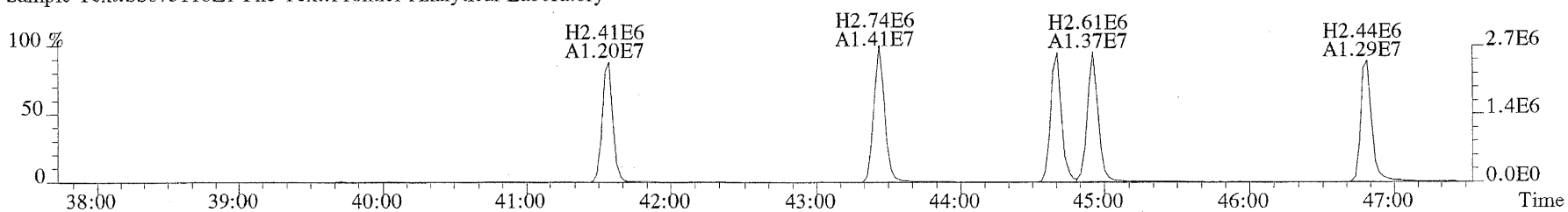
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



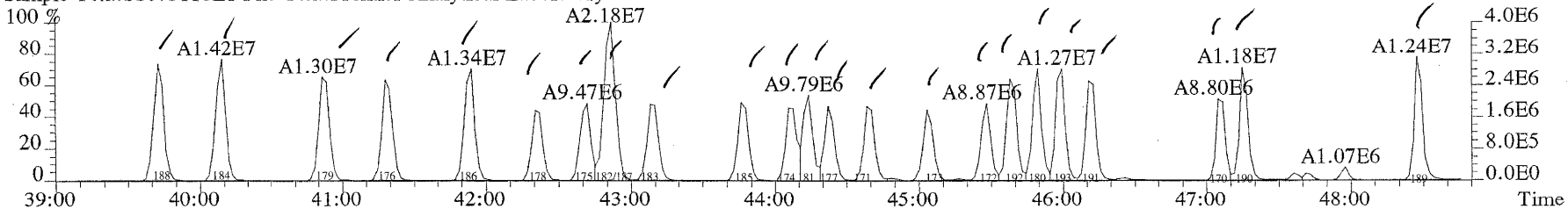
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



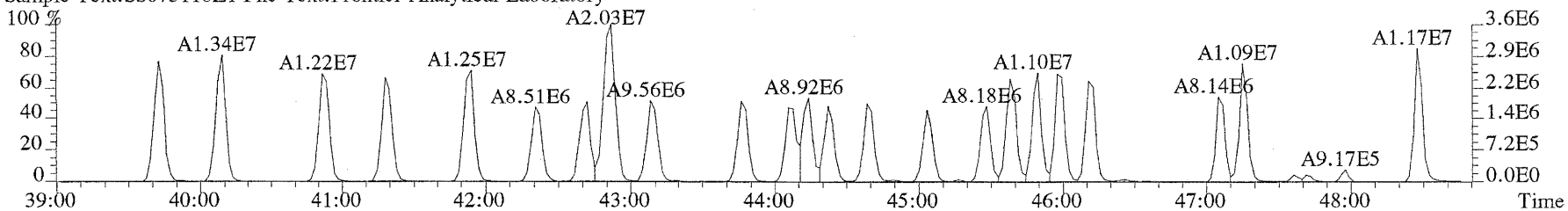
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



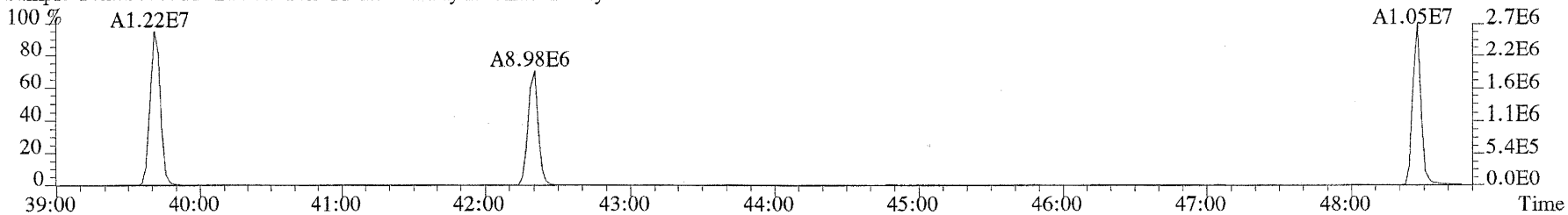
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



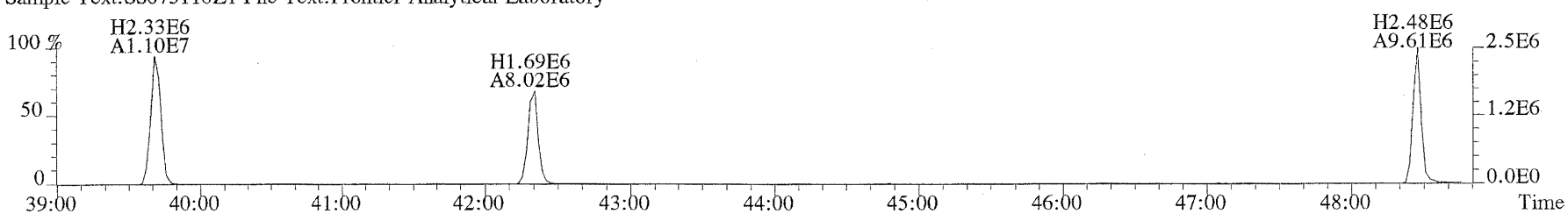
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



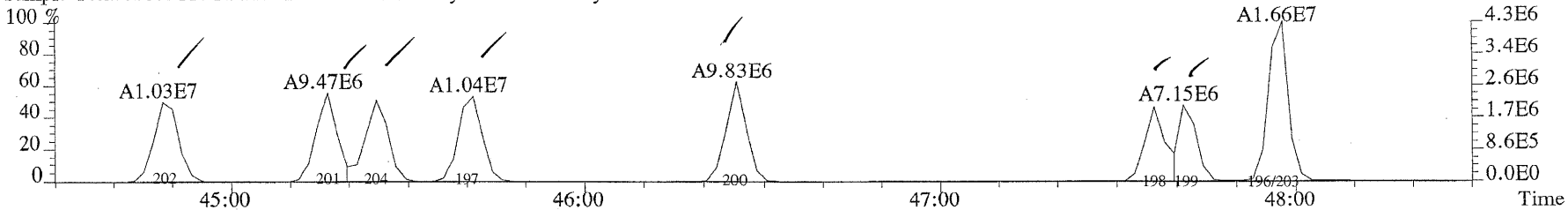
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



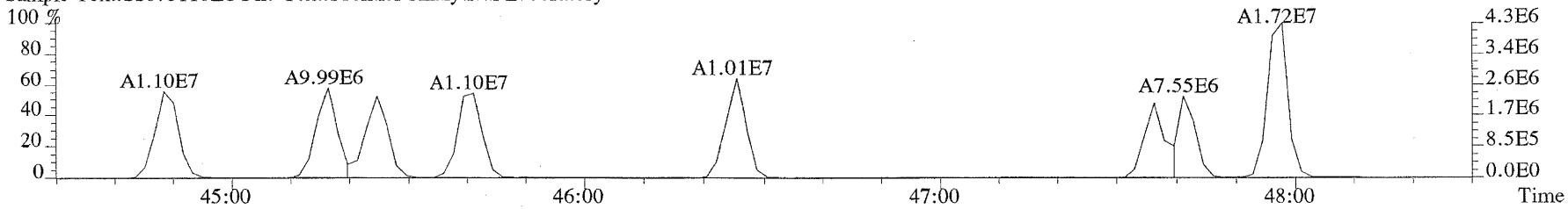
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



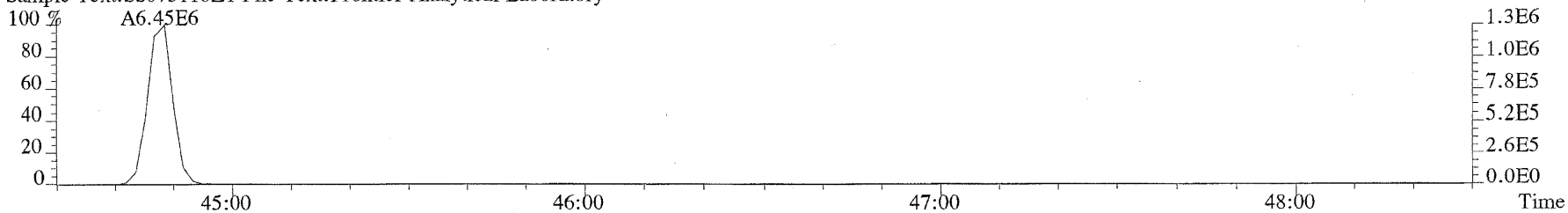
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



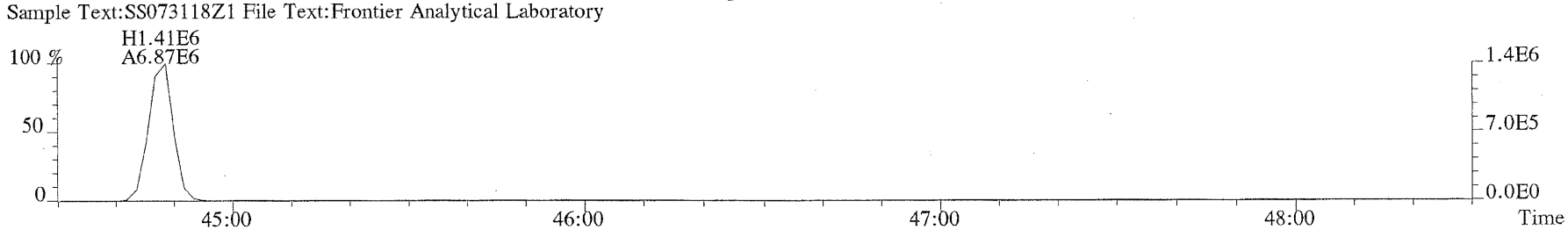
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



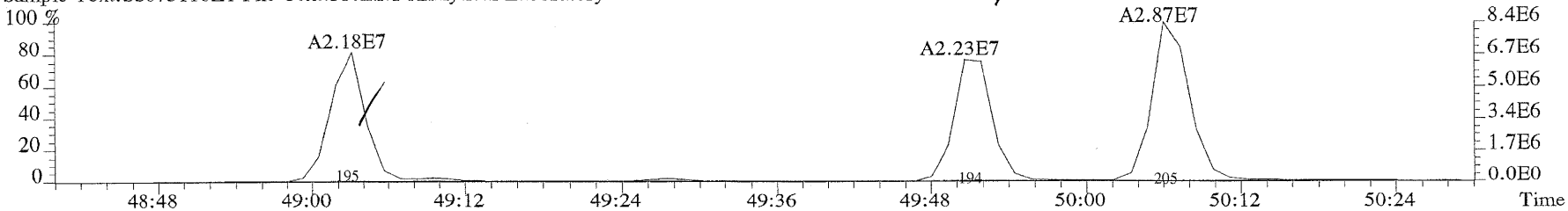
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



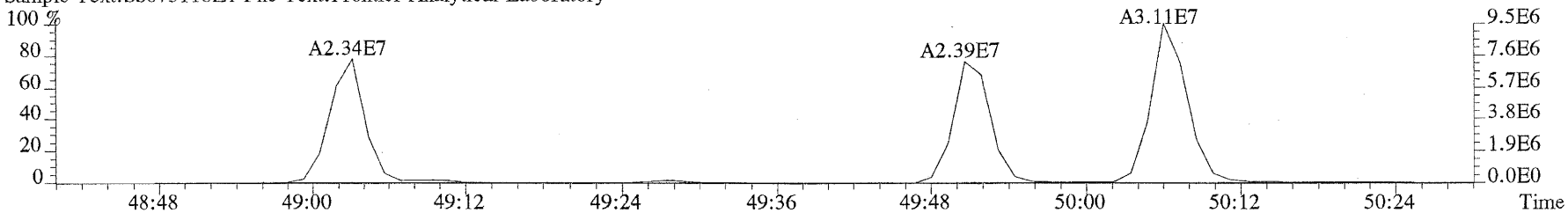
File:31JUL18Z #1-403 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



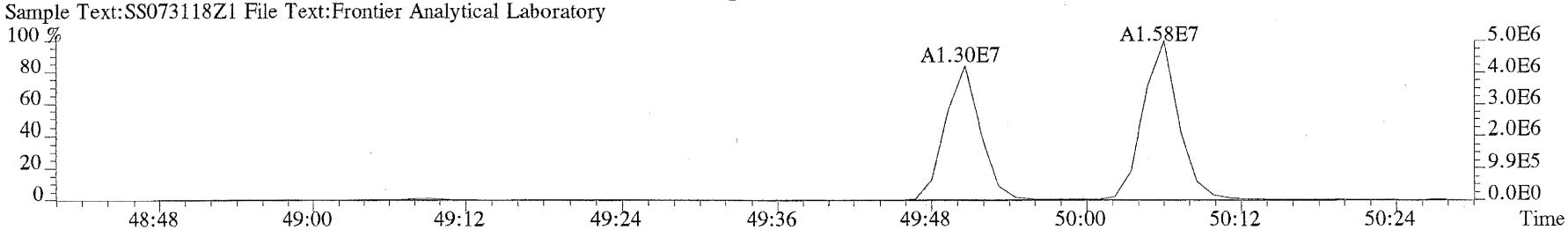
File:31JUL18Z #1-315 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



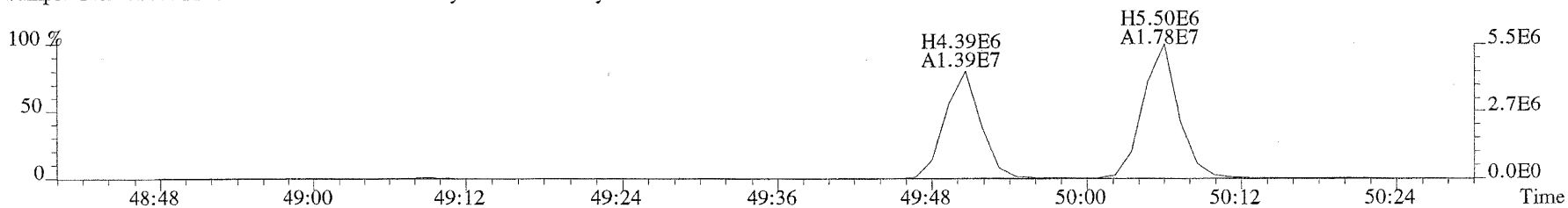
File:31JUL18Z #1-315 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



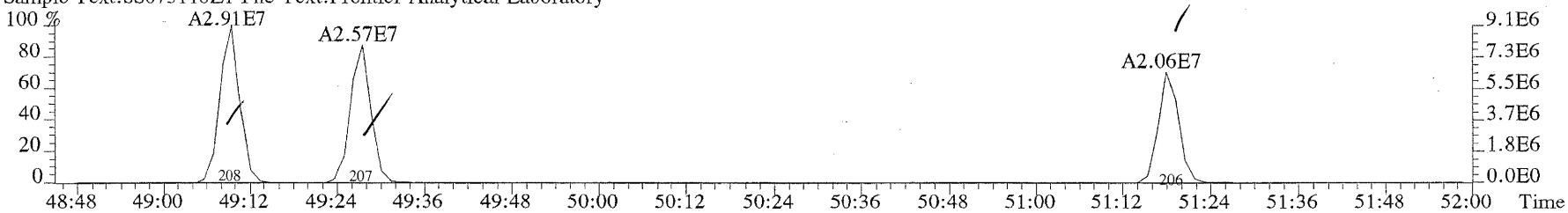
File:31JUL18Z #1-315 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



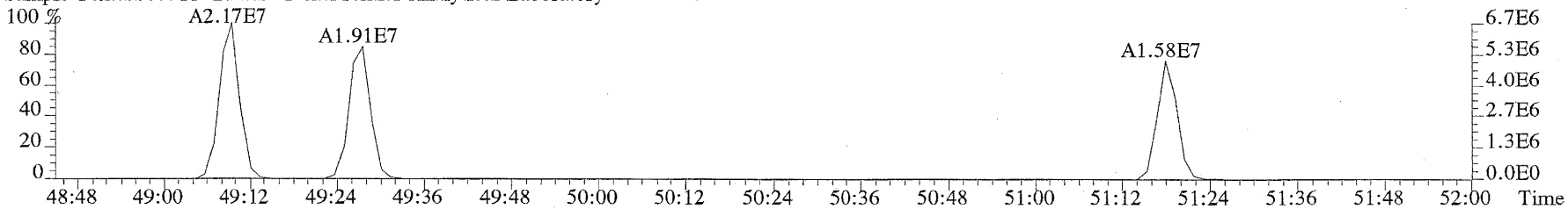
File:31JUL18Z #1-315 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



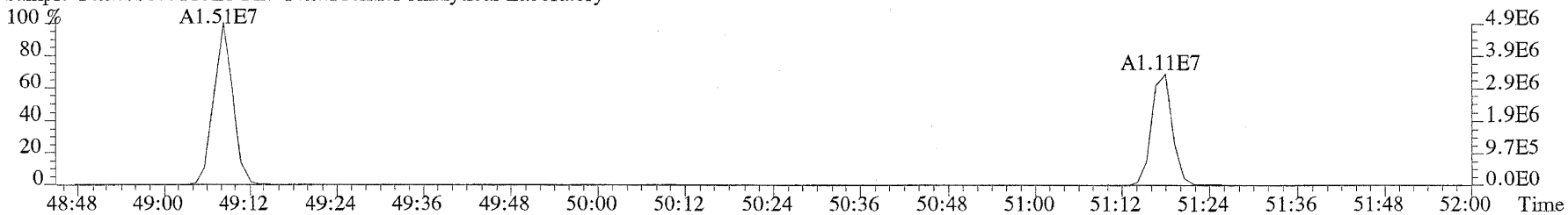
File:31JUL18Z #1-315 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



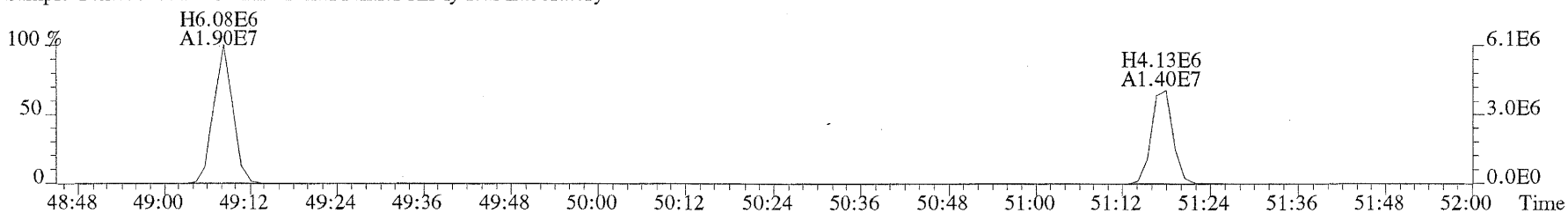
File:31JUL18Z #1-315 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



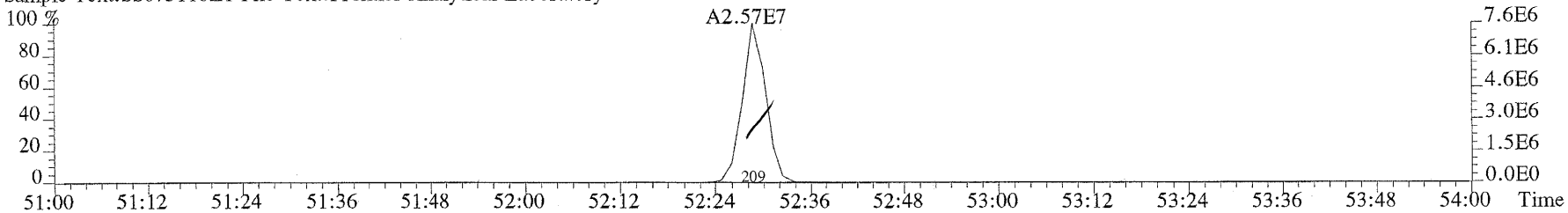
File:31JUL18Z #1-315 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



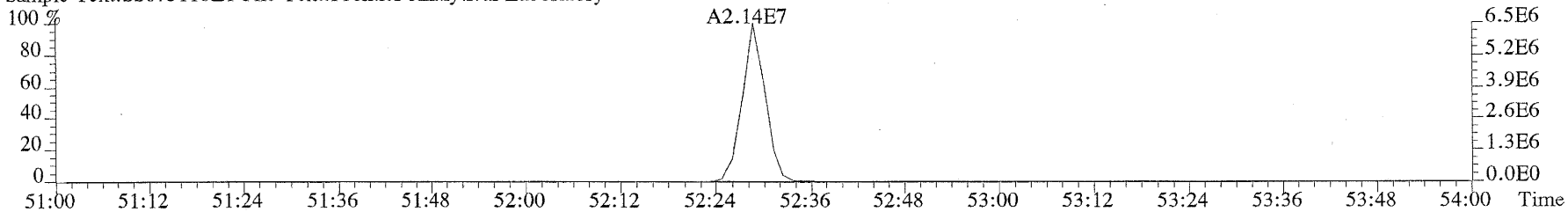
File:31JUL18Z #1-315 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



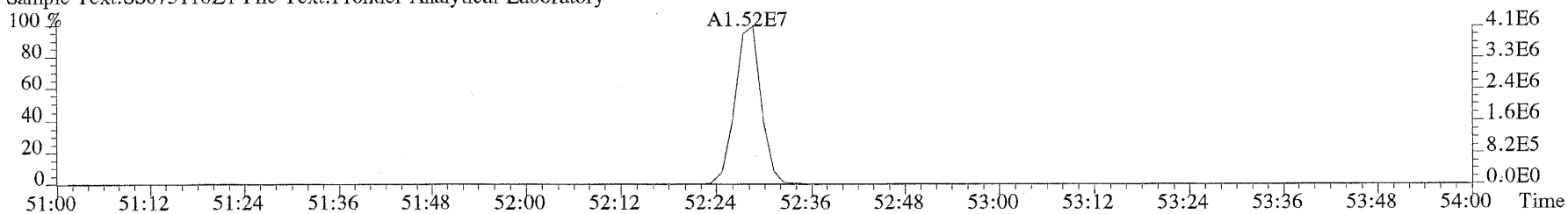
File:31JUL18Z #1-315 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



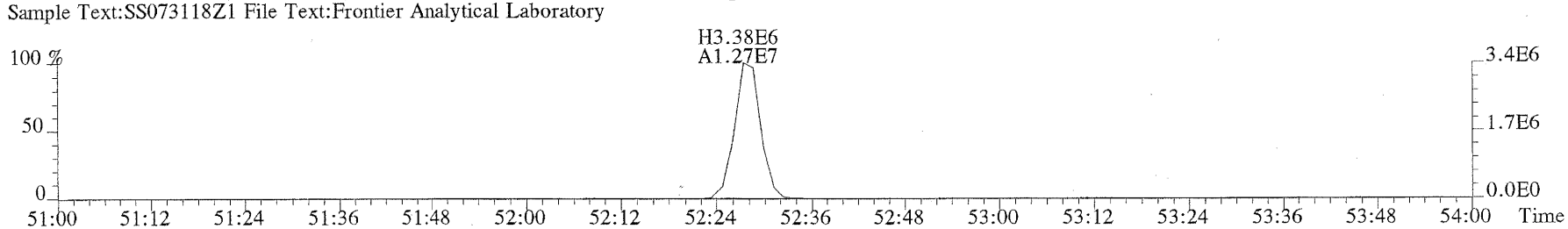
File:31JUL18Z #1-315 Acq:31-JUL-2018 11:11:09 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073118Z1 File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-315 Acq:31-JUL-2018 11:11:09 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:SS073118Z1 File Text:Frontier Analytical Laboratory



File:31JUL18Z #1-315 Acq:31-JUL-2018 11:11:09 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:SS073118Z1 File Text:Frontier Analytical Laboratory



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: 31JUL18Z Sam:16 Analysis Date: 1-AUG-18 00:51:09

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.21	2.66-3.60	y	59.2	37.5 - 62.5
PCB-3	M/M+2	3.14	2.66-3.60	y	58.4	37.5 - 62.5
PCB-4	M/M+2	1.64	1.33-1.79	y	58.4	37.5 - 62.5
PCB-15	M/M+2	1.63	1.33-1.79	y	60.6	37.5 - 62.5
PCB-19	M/M+2	1.09	0.88-1.20	y	54.3	37.5 - 62.5
PCB-37	M/M+2	1.12	0.88-1.20	y	49.9	37.5 - 62.5
PCB-54	M/M+2	0.76	0.65-0.89	y	48.9	37.5 - 62.5
PCB-77	M/M+2	0.84	0.65-0.89	y	55.6	37.5 - 62.5
PCB-81	M/M+2	0.85	0.65-0.89	y	55.7	37.5 - 62.5
PCB-104	M+2/M+4	1.60	1.32-1.78	y	49.9	37.5 - 62.5
PCB-105	M+2/M+4	1.69	1.32-1.78	y	55.2	37.5 - 62.5
PCB-114	M+2/M+4	1.65	1.32-1.78	y	54.5	37.5 - 62.5
PCB-118	M+2/M+4	1.65	1.32-1.78	y	54.3	37.5 - 62.5
PCB-123	M+2/M+4	1.61	1.32-1.78	y	55.0	37.5 - 62.5
PCB-126	M+2/M+4	1.66	1.32-1.78	y	54.2	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	53.6	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	53.9	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	55.1	37.5 - 62.5
PCB-167	M+2/M+4	1.27	1.05-1.43	y	55.2	37.5 - 62.5
PCB-169	M+2/M+4	1.29	1.05-1.43	y	54.1	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	49.5	37.5 - 62.5
PCB-189	M+2/M+4	1.08	0.89-1.21	y	53.7	37.5 - 62.5
PCB-202	M+2/M+4	0.93	0.76-1.02	y	55.9	37.5 - 62.5
PCB-205	M+2/M+4	0.93	0.76-1.02	y	56.0	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	49.6	37.5 - 62.5
PCB-208	M+4/M+6	1.33	1.13-1.53	y	51.2	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	51.6	37.5 - 62.5

Analyst: J Date: 8/1/18

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: 31JUL18Z Sam:16 Analysis Date: 1-AUG-18 00:51:09

	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	3.32	2.66-3.60	y	76.1	50.0 - 145
13C-PCB-3	M/M+2	3.38	2.66-3.60	y	78.2	50.0 - 145
13C-PCB-4	M/M+2	1.65	1.33-1.79	y	100	50.0 - 145
13C-PCB-15	M/M+2	1.64	1.33-1.79	y	98.2	50.0 - 145
13C-PCB-19	M/M+2	1.15	0.88-1.20	y	68.4	50.0 - 145
13C-PCB-37	M/M+2	1.10	0.88-1.20	y	122	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	117	50.0 - 145
13C-PCB-77	M/M+2	0.77	0.65-0.89	y	130	50.0 - 145
13C-PCB-81	M/M+2	0.77	0.65-0.89	y	123	50.0 - 145
13C-PCB-104	M+2/M+4	1.62	1.32-1.78	y	95.7	50.0 - 145
13C-PCB-105	M+2/M+4	1.62	1.32-1.78	y	120	50.0 - 145
13C-PCB-114	M+2/M+4	1.65	1.32-1.78	y	122	50.0 - 145
13C-PCB-118	M+2/M+4	1.63	1.32-1.78	y	129	50.0 - 145
13C-PCB-123	M+2/M+4	1.62	1.32-1.78	y	115	50.0 - 145
13C-PCB-126	M+2/M+4	1.65	1.32-1.78	y	128	50.0 - 145
13C-PCB-155	M+2/M+4	1.33	1.05-1.43	y	79.8	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	99.2	50.0 - 145
13C-PCB-157	M+2/M+4	1.34	1.05-1.43	y	104	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	110	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	109	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	80.8	50.0 - 145
13C-PCB-189	M+2/M+4	1.09	0.89-1.21	y	88.7	50.0 - 145
13C-PCB-202	M+2/M+4	0.97	0.76-1.02	y	61.5	50.0 - 145
13C-PCB-205	M+2/M+4	0.92	0.76-1.02	y	109	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	116	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	97.4	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	96.6	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.12	0.88-1.20	y	124	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	96.7	75.0 - 125
13C-PCB-178	M+2/M+4	1.11	0.89-1.21	y	80.8	75.0 - 125

Analyst: [signature] Date: 8/1/18

FAL ID: ST073118Z2 Filename: 31JUL18Z Sam:16 Acquired: 1-AUG-18 00:51:09 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 30JUL18Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	5.43e+07	3.21 y	14:32	1.11	59.2		2.50	-	-	*	-
13C-PCB-1	8.29e+07	3.32 y	14:31	1.07	76.1		2.50				76.1
PCB-3	5.43e+07	3.14 y	16:58	1.13	58.4		2.50	-	-	*	-
13C-PCB-3	8.23e+07	3.38 y	16:57	1.03	78.2		2.50				78.2
PCB-4	4.60e+07	1.64 y	18:12	1.14	58.4		2.50	-	-	*	-
13C-PCB-4	6.89e+07	1.65 y	18:10	0.67	100		2.50				100
PCB-15	6.93e+07	1.63 y	23:45	1.10	60.6		2.50	-	-	*	-
13C-PCB-15	1.04e+08	1.64 y	23:44	1.03	98.2		2.50				98.2
PCB-19	2.19e+07	1.09 y	22:05	1.23	54.3		2.50	-	-	*	-
13C-PCB-19	3.28e+07	1.15 y	22:03	0.47	68.4		2.50				68.4
13C-PCB-9	1.02e+08	1.67 y	19:52	-	436		2.50				
PCB-37	3.92e+07	1.12 y	30:24	1.26	49.9		2.50	-	-	*	-
13C-PCB-37	6.27e+07	1.10 y	30:23	1.40	122		2.50				122
PCB-54	2.89e+07	0.76 y	25:37	1.16	48.9		2.50	-	-	*	-
13C-PCB-54	5.11e+07	0.79 y	25:36	1.19	117		2.50				117
PCB-104	1.72e+07	1.60 y	30:02	1.22	49.9		2.50	-	-	*	-
13C-PCB-104	2.82e+07	1.62 y	30:01	0.80	95.7		2.50				95.7
13C-PCB-28	6.99e+07	1.12 y	26:41	1.53	124		2.50				124
13C-PCB-52	3.69e+07	0.78 y	28:57	-	284		2.50				
PCB-81	3.90e+07	0.85 y	36:10	1.17	55.7		2.50	-	-	*	-
13C-PCB-81	5.99e+07	0.77 y	36:09	1.37	123		2.50				123
PCB-77	3.99e+07	0.84 y	36:44	1.11	55.6		2.50	-	-	*	-
13C-PCB-77	6.47e+07	0.77 y	36:43	1.41	130		2.50				130
PCB-155	1.77e+07	1.29 y	34:12	1.14	53.6		2.50	-	-	*	-
13C-PCB-155	2.89e+07	1.33 y	34:11	1.02	79.8		2.50				79.8
13C-PCB-111	4.33e+07	1.61 y	36:18	1.26	96.7		2.50				96.7
13C-PCB-101	3.55e+07	1.64 y	34:38	-	314		2.50				
PCB-123	3.50e+07	1.61 y	38:22	1.12	55.0		2.50	-	-	*	-
13C-PCB-123	5.66e+07	1.62 y	38:20	1.36	115		2.50				115
PCB-118	4.18e+07	1.65 y	38:31	1.16	54.3		2.50	-	-	*	-
13C-PCB-118	6.65e+07	1.63 y	38:30	1.42	129		2.50				129
PCB-114	3.73e+07	1.65 y	39:09	1.13	54.5		2.50	-	-	*	-
13C-PCB-114	6.08e+07	1.65 y	39:08	1.38	122		2.50				122
PCB-105	3.67e+07	1.69 y	39:57	1.11	55.2		2.50	-	-	*	-
13C-PCB-105	6.00e+07	1.62 y	39:57	1.38	120		2.50				120
PCB-126	3.62e+07	1.66 y	42:07	1.11	54.2		2.50	-	-	*	-
13C-PCB-126	5.99e+07	1.65 y	42:05	1.29	128		2.50				128
PCB-167	2.84e+07	1.27 y	43:28	1.05	55.2		2.50	-	-	*	-
13C-PCB-167	4.90e+07	1.26 y	43:26	1.23	110		2.50				110
PCB-156	2.48e+07	1.26 y	44:40	1.08	53.9		2.50	-	-	*	-
13C-PCB-156	4.28e+07	1.29 y	44:40	1.19	99.2		2.50				99.2
PCB-157	2.70e+07	1.27 y	44:57	1.06	55.1		2.50	-	-	*	-
13C-PCB-157	4.65e+07	1.34 y	44:55	1.24	104		2.50				104
PCB-169	2.60e+07	1.29 y	46:48	1.06	54.1		2.50	-	-	*	-
13C-PCB-169	4.52e+07	1.29 y	46:47	1.15	109		2.50				109
PCB-188	1.87e+07	1.08 y	39:42	1.14	49.5		2.50	-	-	*	-
13C-PCB-188	3.30e+07	1.07 y	39:41	1.13	80.8		2.50				80.8
PCB-189	1.82e+07	1.08 y	48:27	1.12	53.7		2.50	-	-	*	-
13C-PCB-189	3.04e+07	1.09 y	48:27	0.94	88.7		2.50				88.7
PCB-202	1.05e+07	0.93 y	44:48	1.09	55.9		2.50	-	-	*	-
13C-PCB-202	1.72e+07	0.97 y	44:47	0.77	61.5		2.50				61.5
13C-PCB-178	2.23e+07	1.11 y	42:19	0.76	80.8		2.50				80.8
13C-PCB-138	3.63e+07	1.29 y	41:34	-	331		2.50				

FAL ID: ST073118Z2 Filename: 31JUL18Z Sam:16 Acquired: 1-AUG-18 00:51:09 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 30JUL18Z GC Column: DB1MS Amount: 1.000

PCB-205	3.15e+07	0.93 y	50:06	1.04	56.0	2.50	-	-	*	-
13C-PCB-205	5.39e+07	0.92 y	50:06	1.32	109	2.50				109
PCB-208	2.39e+07	1.33 y	49:09	0.96	51.2	2.50	-	-	*	-
13C-PCB-208	4.86e+07	0.80 y	49:08	1.33	97.4	2.50				97.4
PCB-206	1.97e+07	1.37 y	51:18	0.97	49.6	2.50	-	-	*	-
13C-PCB-206	4.07e+07	0.79 y	51:17	0.94	116	2.50				116
PCB-209	2.29e+07	1.18 y	52:28	1.17	51.6	2.50	-	-	*	-
13C-PCB-209	3.78e+07	1.21 y	52:28	1.04	96.6	2.50				96.6
13C-PCB-194	3.75e+07	0.93 y	49:51	-	378	2.50				

Analyst: _____ Date: 8/1/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:31JUL18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

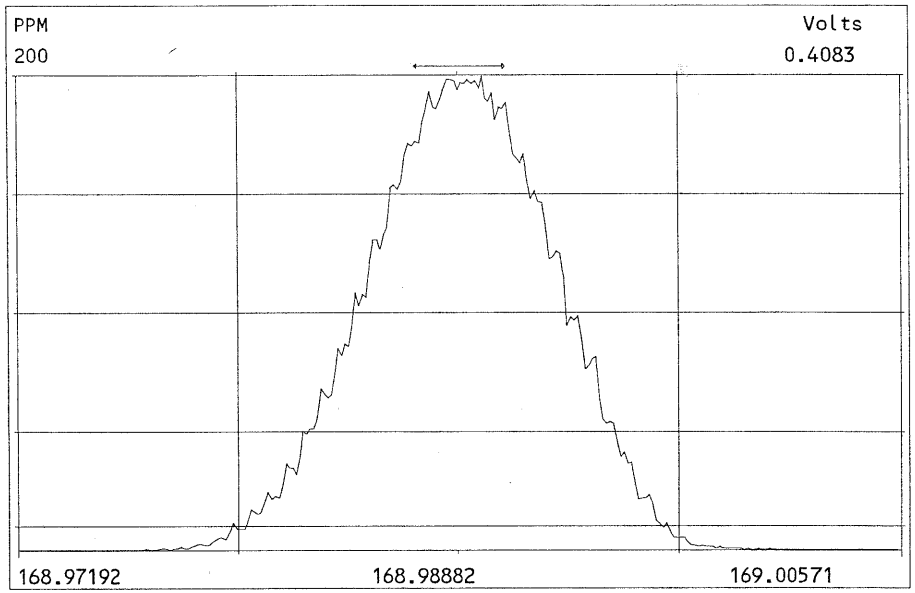
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
31JUL18Z	1	ST073118Z1	1668 CS3 170805A	31-JUL-18 10:12:49	ST073118Z1	ST073118Z2	BS
31JUL18Z	2	SS073118Z1	Daily 209 180725A	31-JUL-18 11:11:09	ST073118Z1	ST073118Z2	BS
31JUL18Z	3	04591-001-0001-OPR	OPR	31-JUL-18 12:09:55	ST073118Z1	ST073118Z2	BS
31JUL18Z	4	04591-001-0001-MB	Method Blank	31-JUL-18 13:08:20	ST073118Z1	ST073118Z2	BS
31JUL18Z	5	11719-007-0001-SA	LDW-Y1-SC-ENR-CA-CORE	31-JUL-18 14:06:41	ST073118Z1	ST073118Z2	BS
31JUL18Z	6	11719-008-0001-SA	LDW-Y1-SC-ENR-CB-CORE	31-JUL-18 15:05:27	ST073118Z1	ST073118Z2	BS
31JUL18Z	7	11719-009-0001-SA	LDW-Y1-SC-ENR-CC-CORE	31-JUL-18 16:04:08	ST073118Z1	ST073118Z2	BS
31JUL18Z	8	11719-010-0001-SA	LDW-Y1-SC-ENR+AC-CA-CORE	31-JUL-18 17:02:49	ST073118Z1	ST073118Z2	BS
31JUL18Z	9	11719-011-0001-SA	LDW-Y1-SC-ENR+AC-CB-CORE	31-JUL-18 18:01:29	ST073118Z1	ST073118Z2	BS
31JUL18Z	10	11719-012-0001-SA	LDW-Y1-SC-ENR+AC-CC-CORE	31-JUL-18 19:00:15	ST073118Z1	ST073118Z2	BS
31JUL18Z	11	11719-013-0001-SA	LDW-Y1-SU-ENR-CA-CORE	31-JUL-18 19:59:02	ST073118Z1	ST073118Z2	BS
31JUL18Z	12	11719-014-0001-SA	LDW-Y1-SU-ENR-CB-CORE	31-JUL-18 20:57:23	ST073118Z1	ST073118Z2	BS
31JUL18Z	13	11719-015-0001-SA	LDW-Y1-SU-ENR-CC-CORE	31-JUL-18 21:55:44	ST073118Z1	ST073118Z2	BS
31JUL18Z	14	SB073118Z1	Solvent Blank	31-JUL-18 22:54:06	ST073118Z1	ST073118Z2	BS
31JUL18Z	15	SB073118Z2	Solvent Blank	31-JUL-18 23:52:46	ST073118Z1	ST073118Z2	BS
31JUL18Z	16	ST073118Z2	1668 CS3 170805A	1-AUG-18 00:51:09	ST073118Z1	ST073118Z2	BS

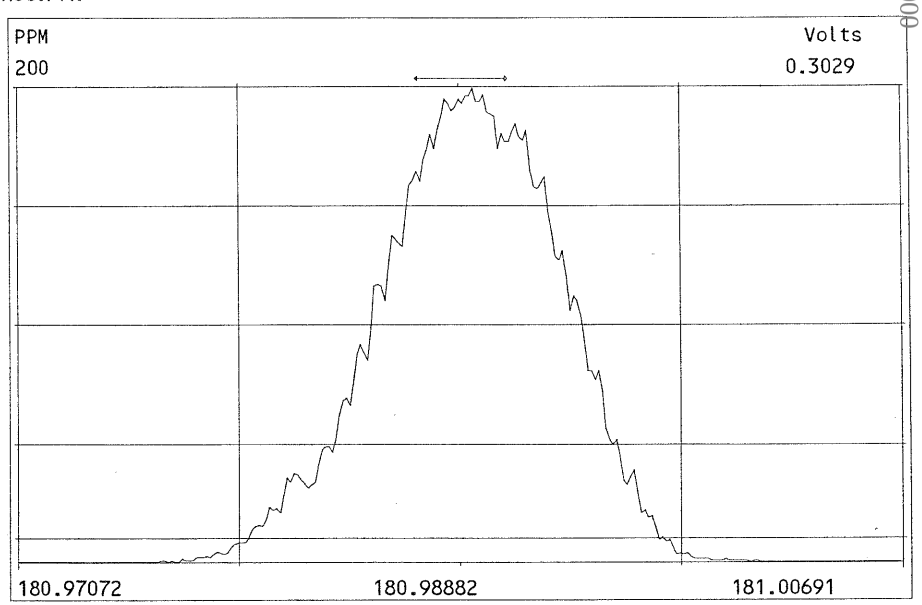
K 8/1/18

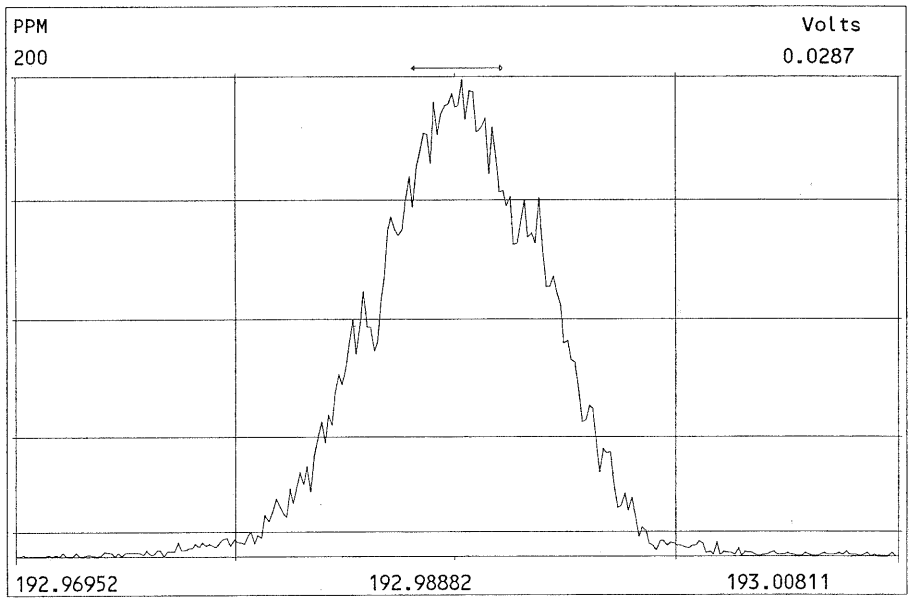
Data Backed Up:_____

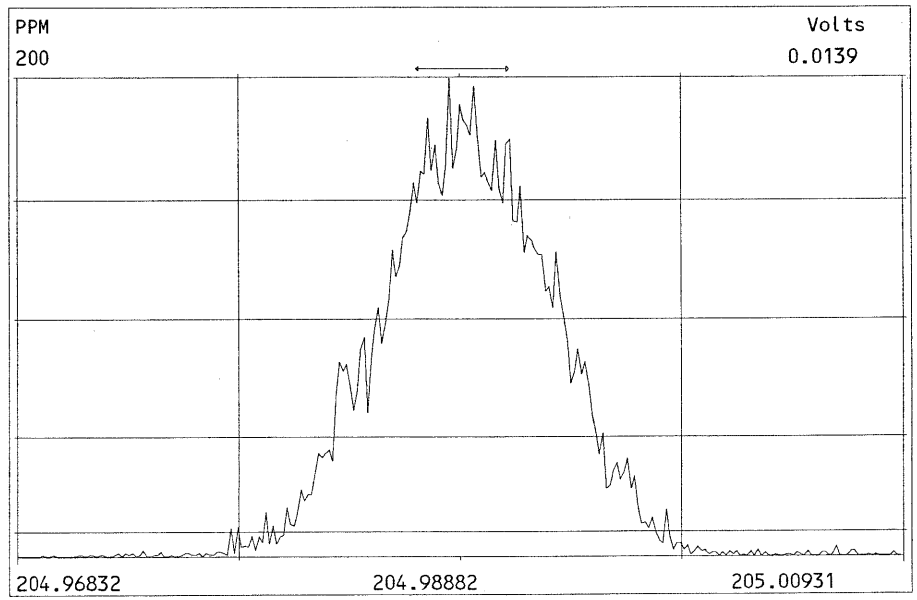
Date:_____

Peak Locate Examination:31-JUL-2018:10:09 File:31JUL18Z
Experiment:1668PCB Function:1 Reference:PFK

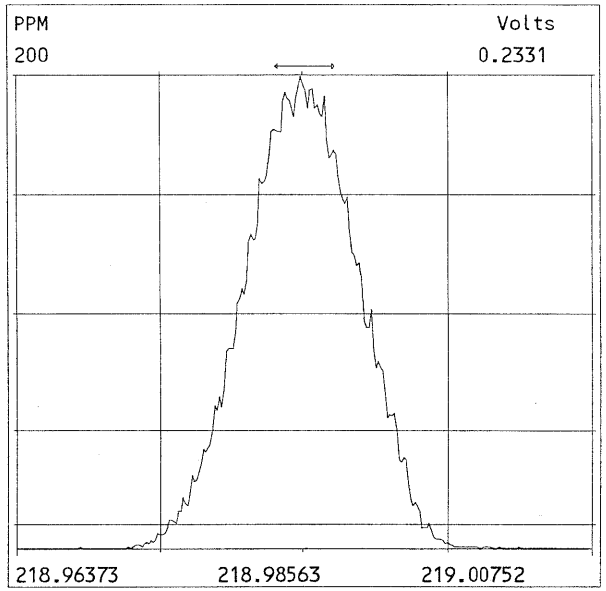


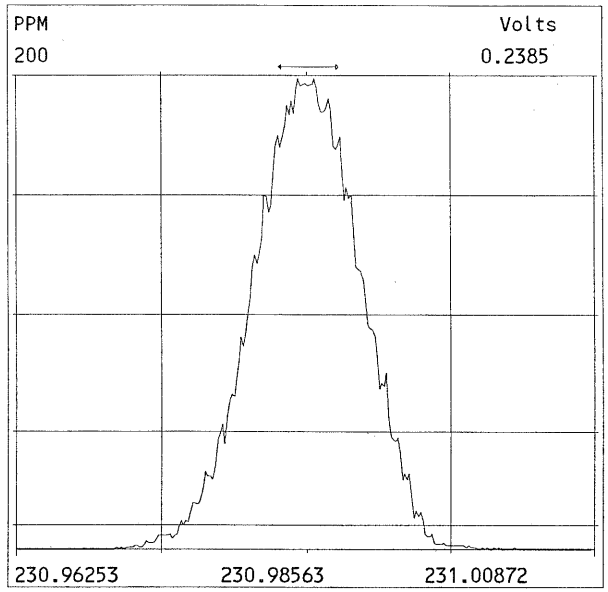


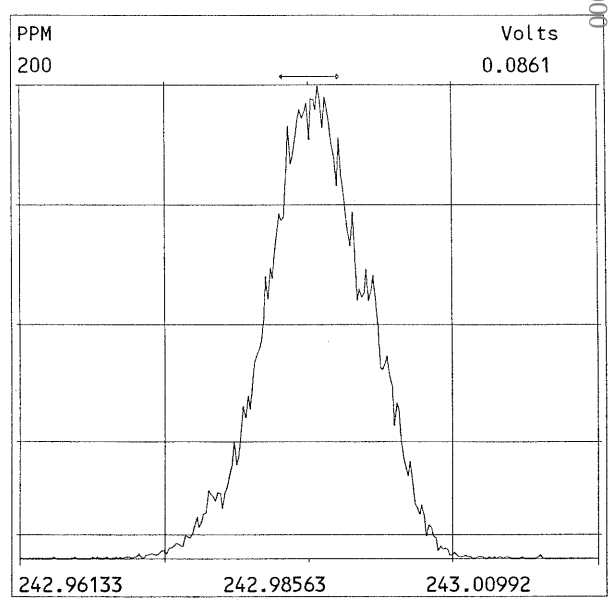


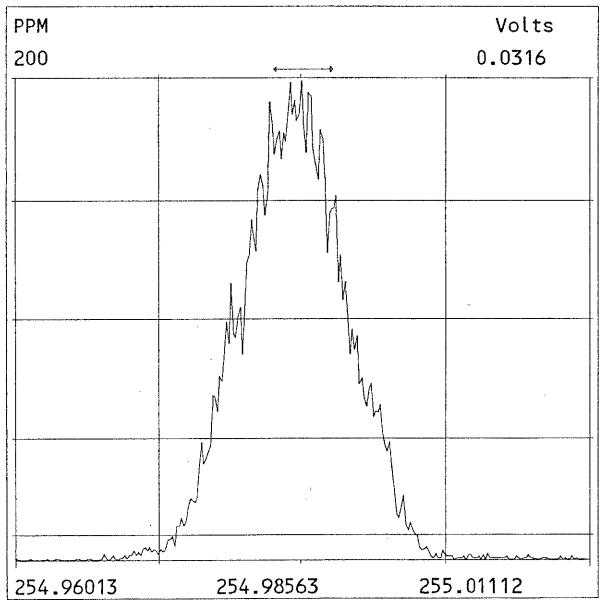


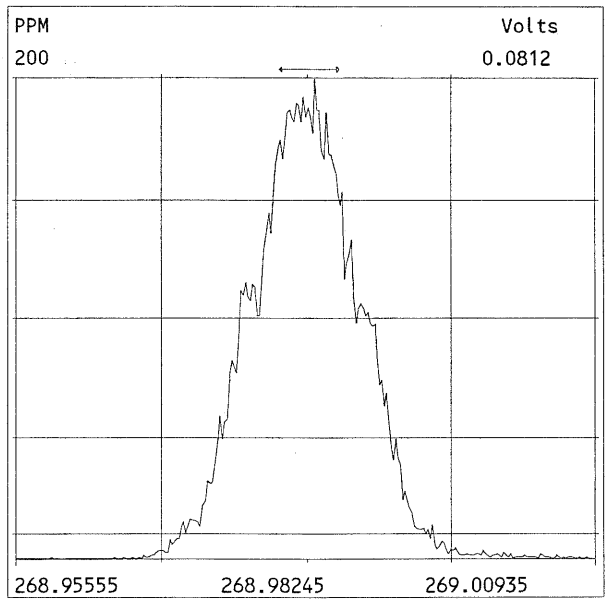
Peak Locate Examination:31-JUL-2018:10:10 File:31JUL18Z
Experiment:1668PCB Function:2 Reference:PFK

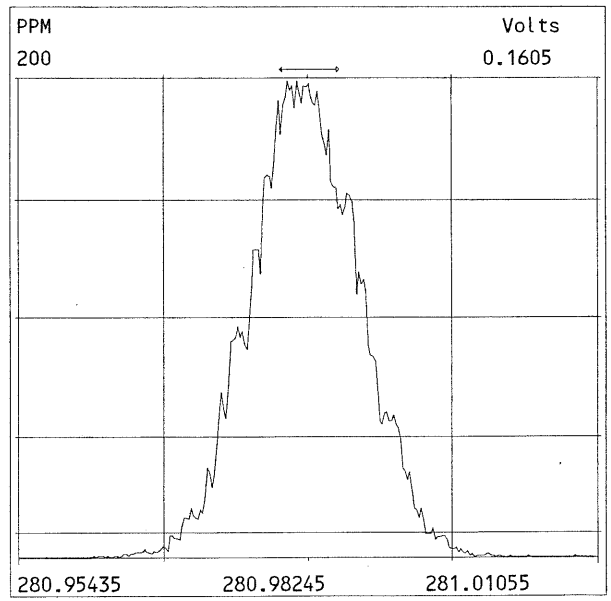




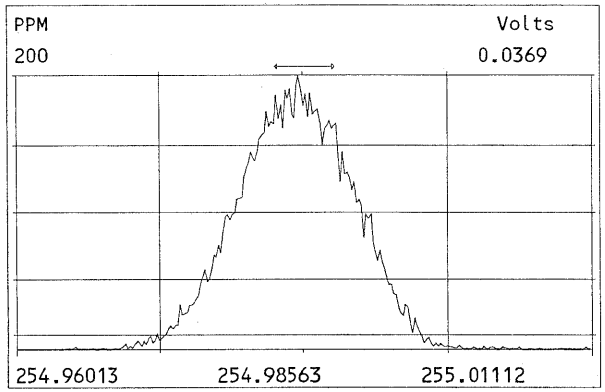


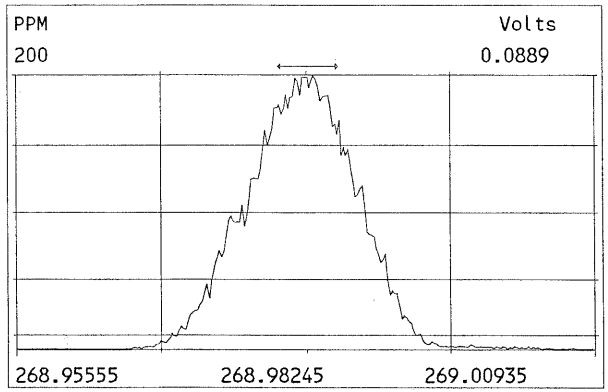


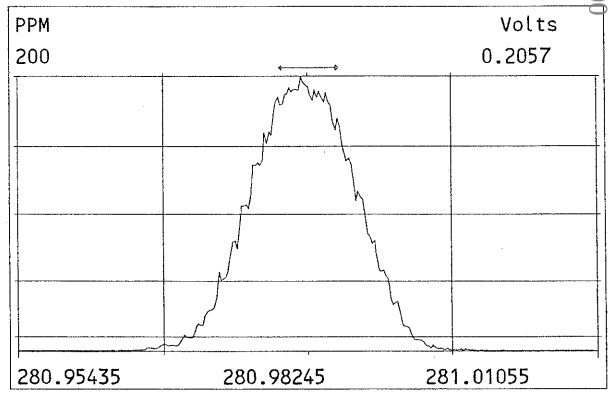


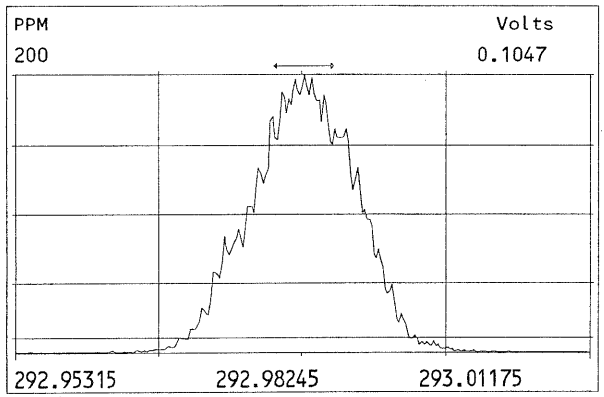


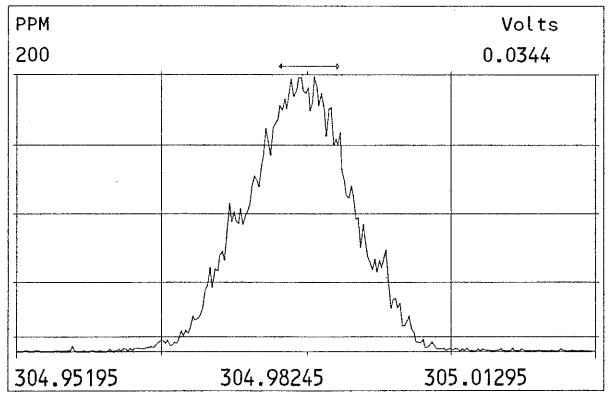
Peak Locate Examination:31-JUL-2018:10:10 File:31JUL18Z
Experiment:1668PCB Function:3 Reference:PFK

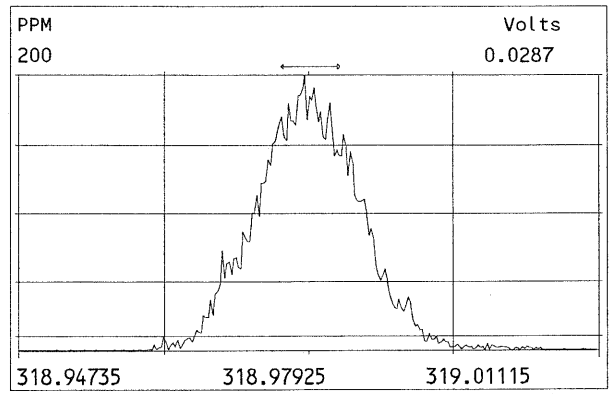


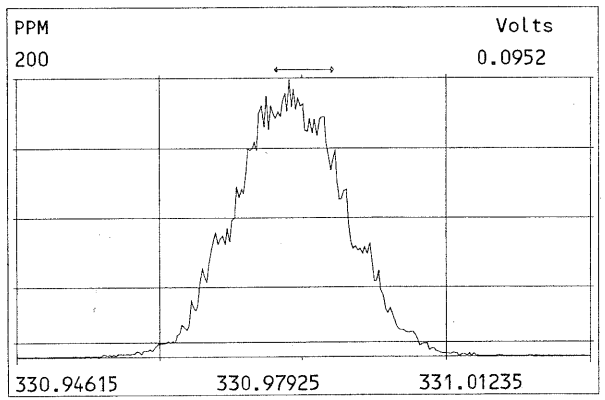


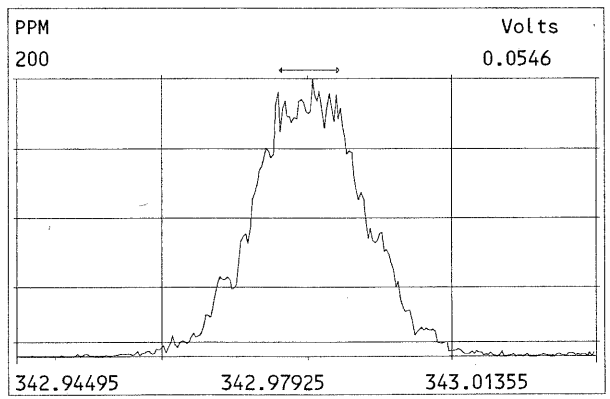




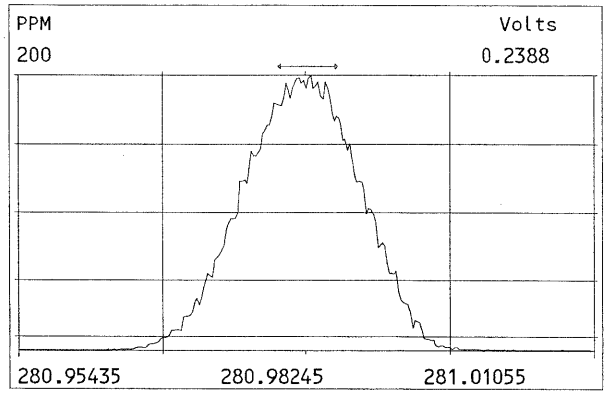


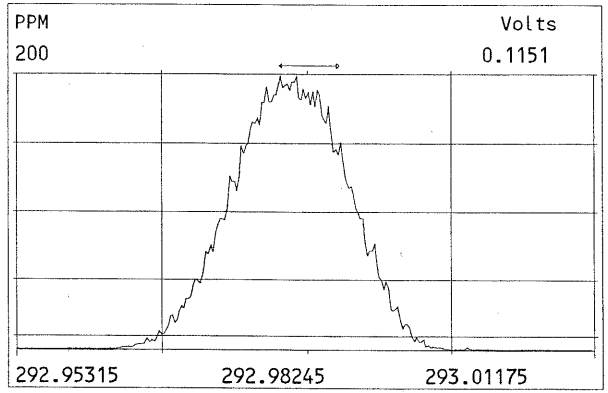


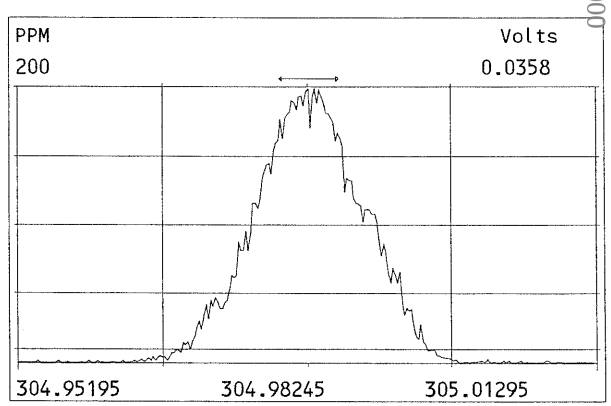


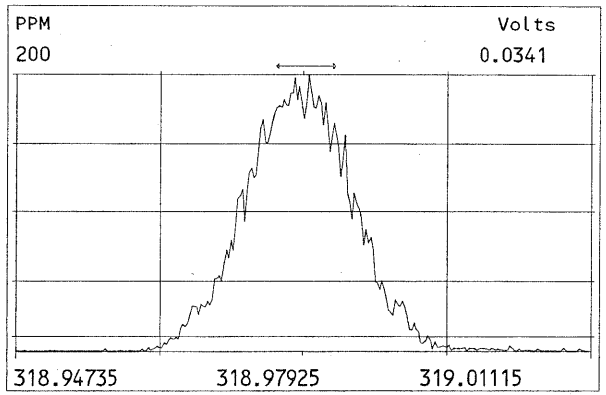


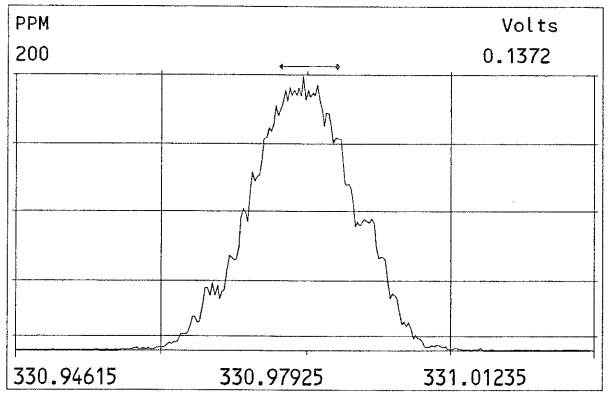
Peak Locate Examination:31-JUL-2018:10:11 File:31JUL18Z
Experiment:1668PCB Function:4 Reference:PFK

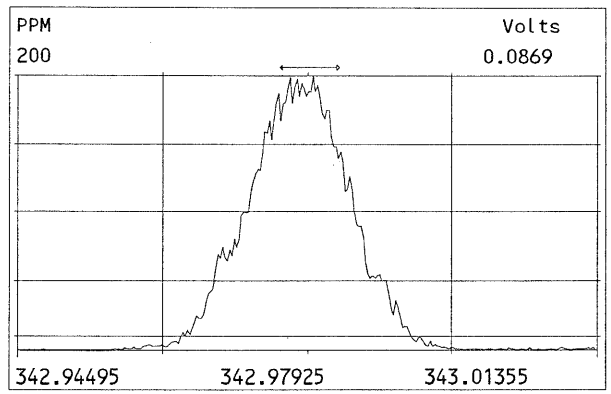


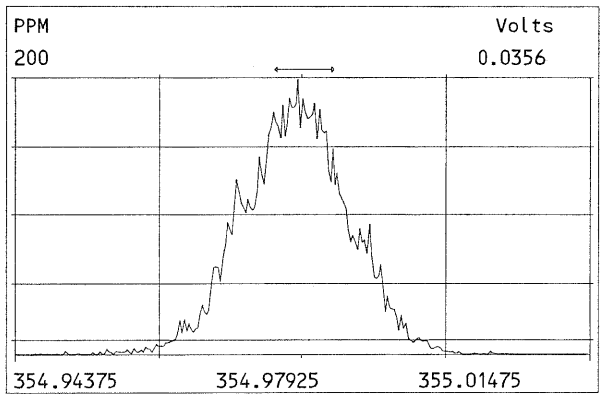


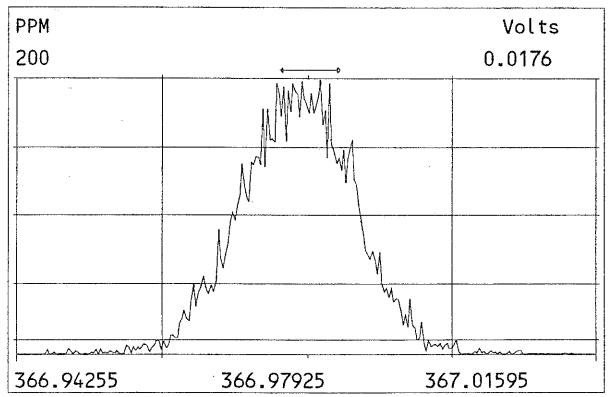


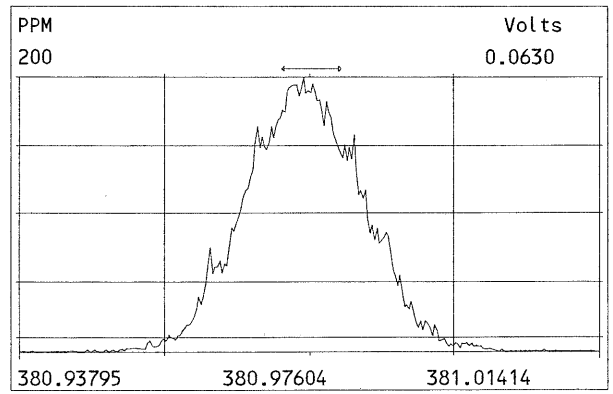




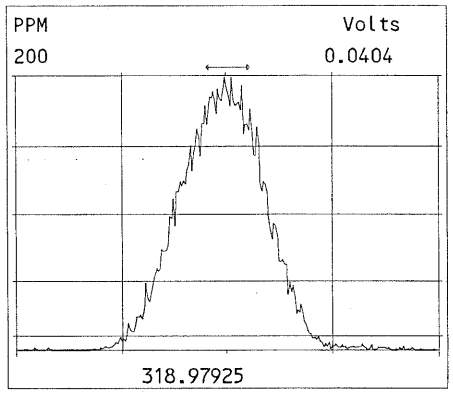


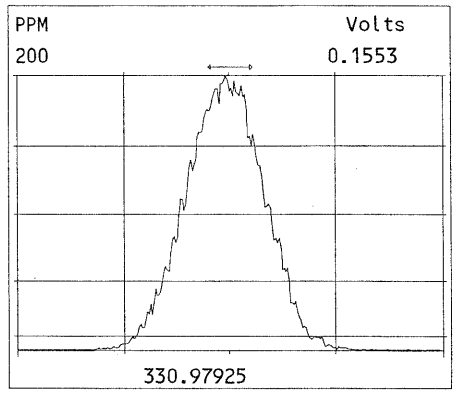


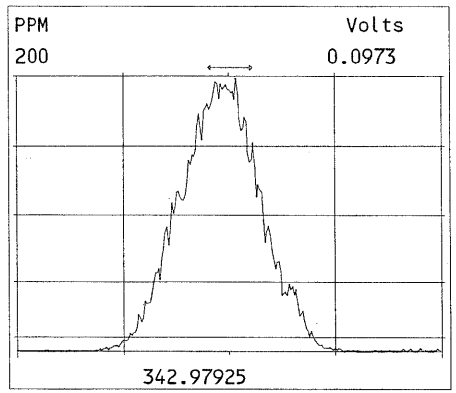


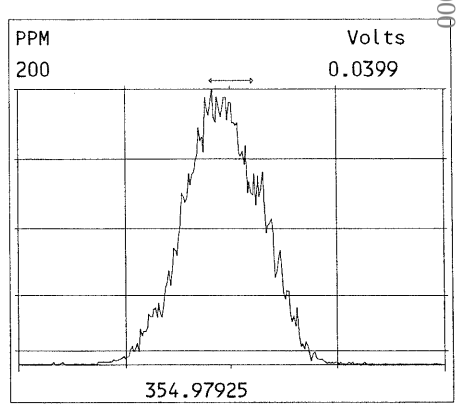


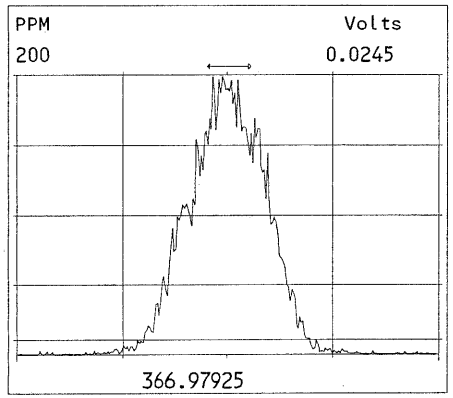
Peak Locate Examination:31-JUL-2018:10:11 File:31JUL18Z
Experiment:1668PCB Function:5 Reference:PFK

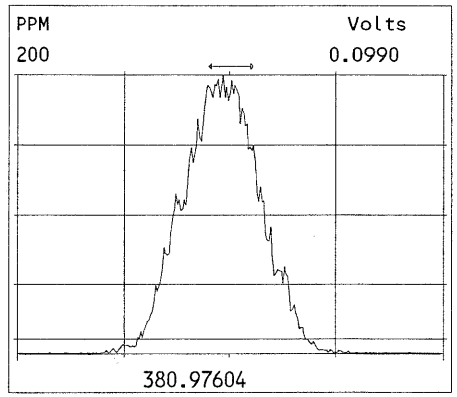


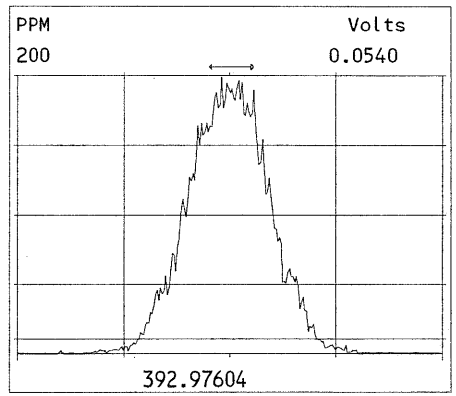


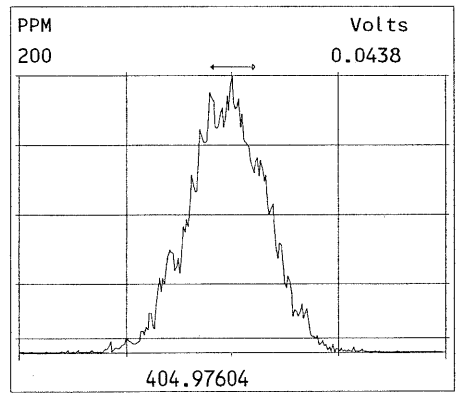


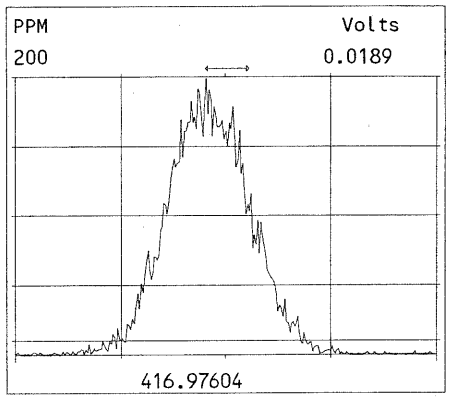


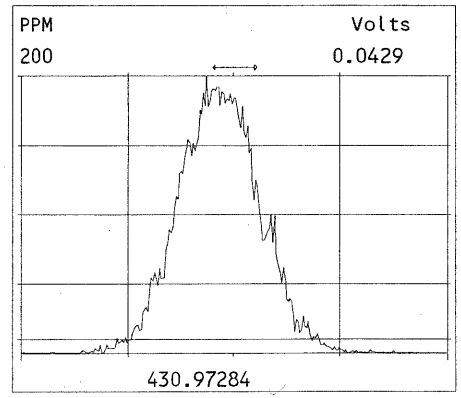


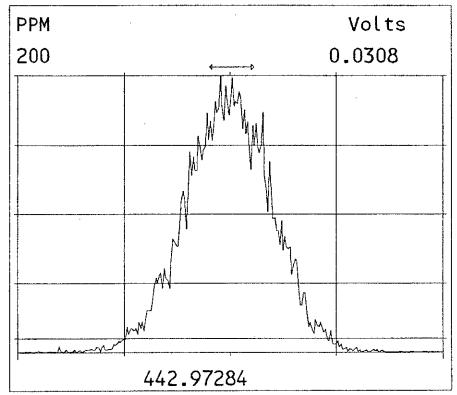




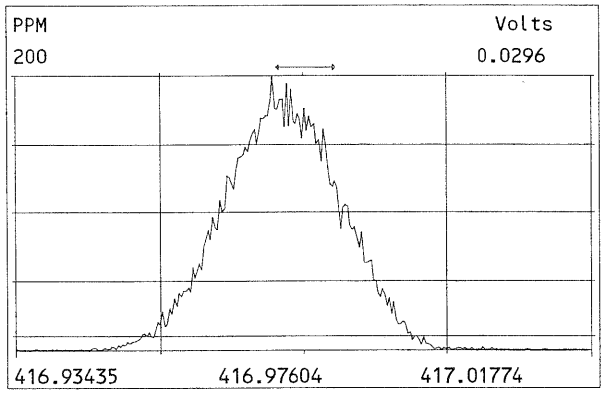


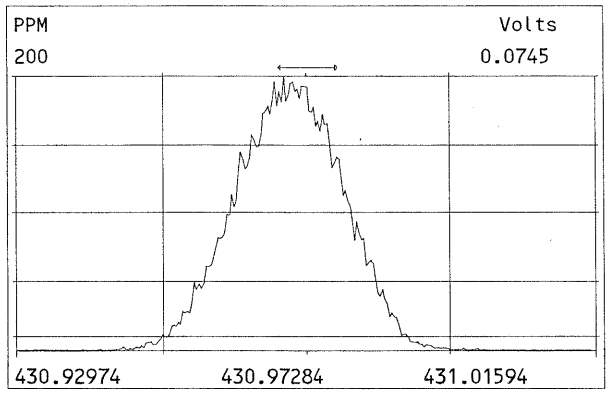


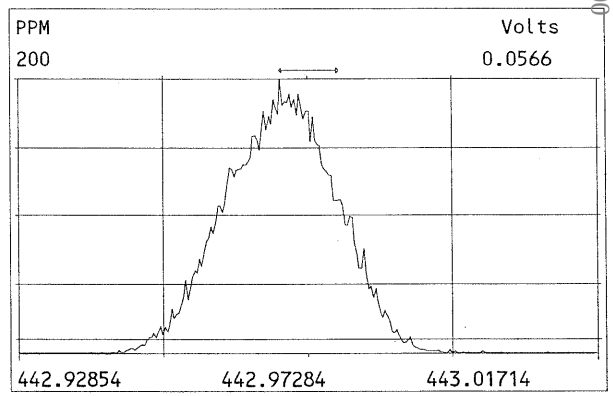


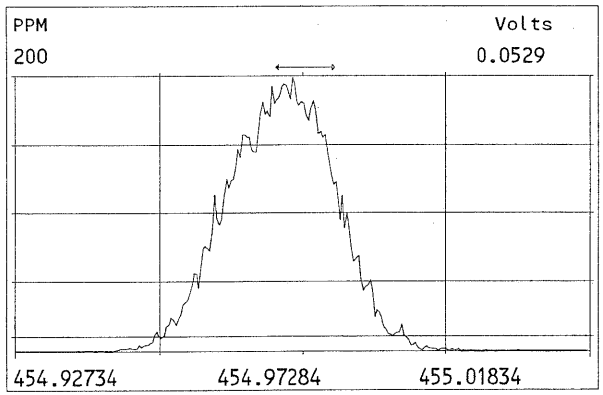


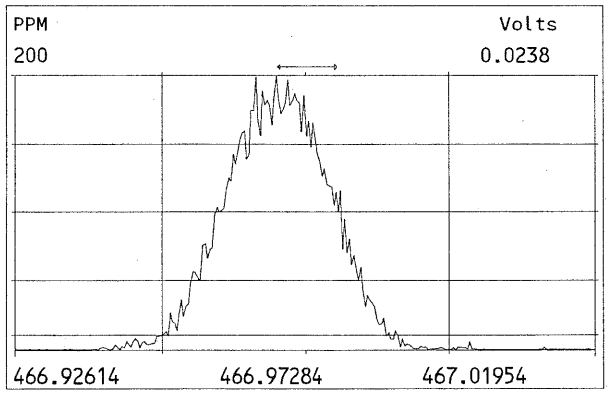
Peak Locate Examination:31-JUL-2018:10:12 File:31JUL18Z
Experiment:1668PCB Function:6 Reference:PFK

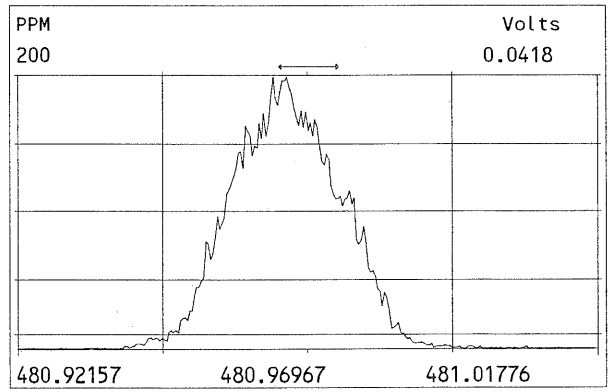


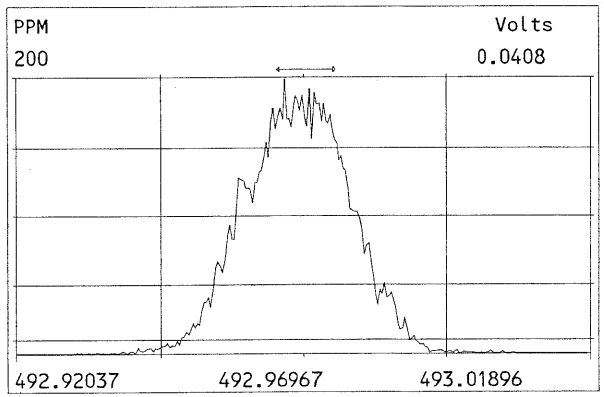


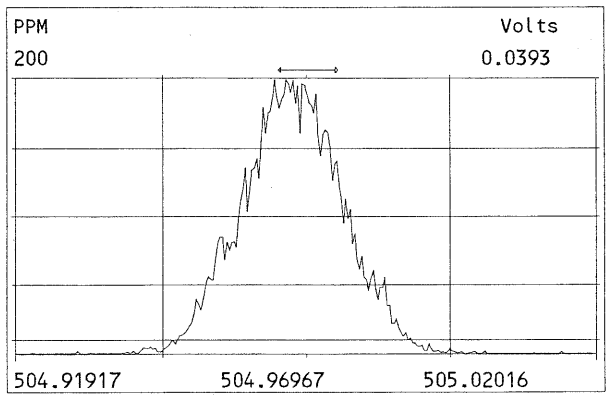


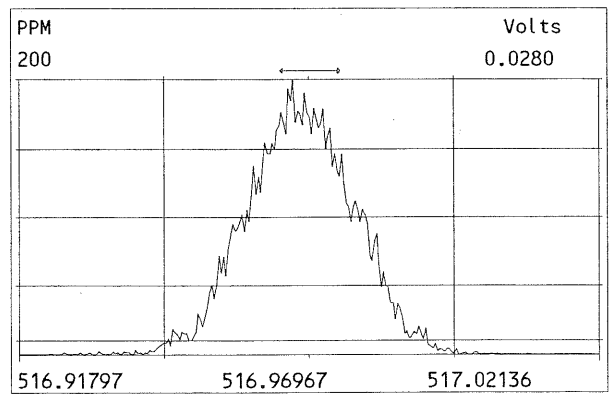




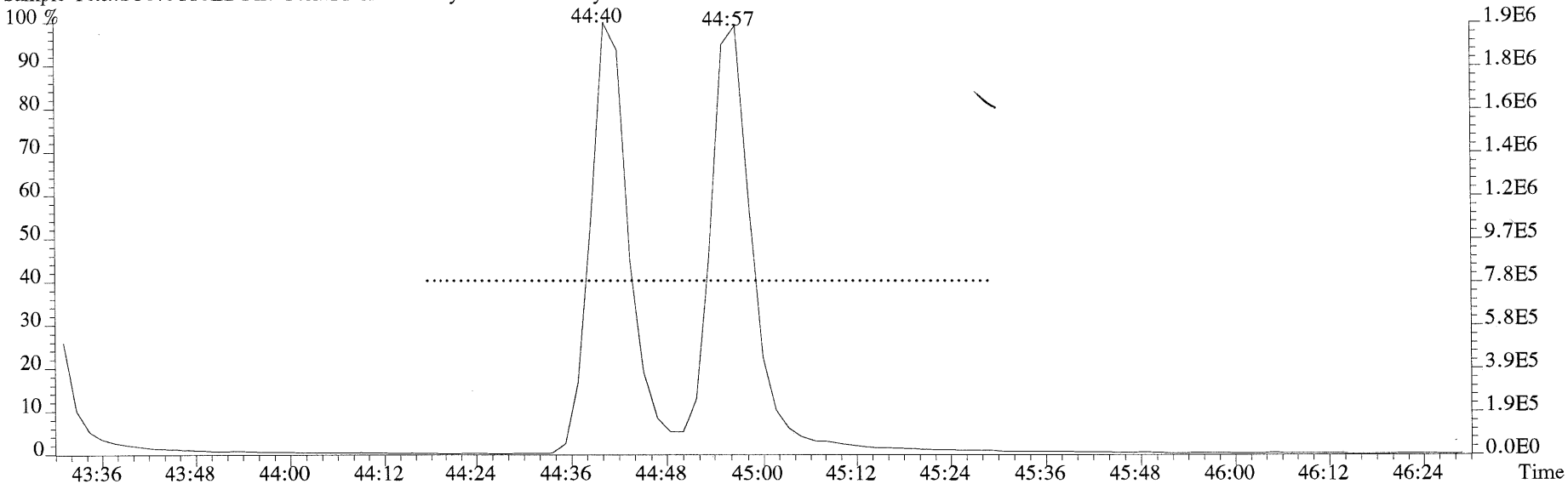




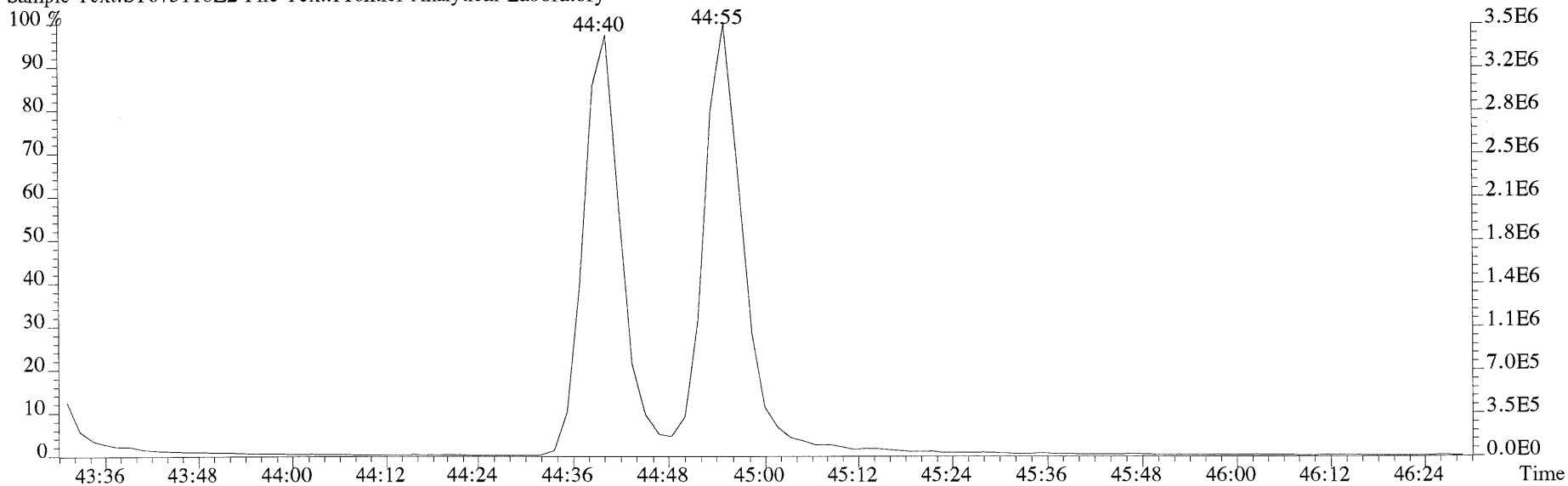




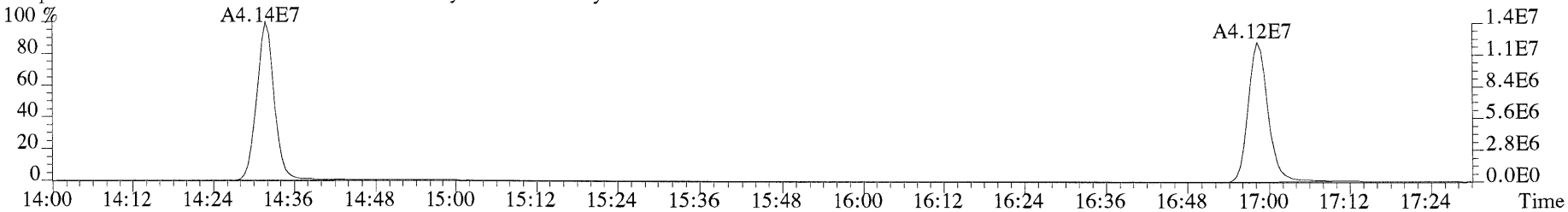
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



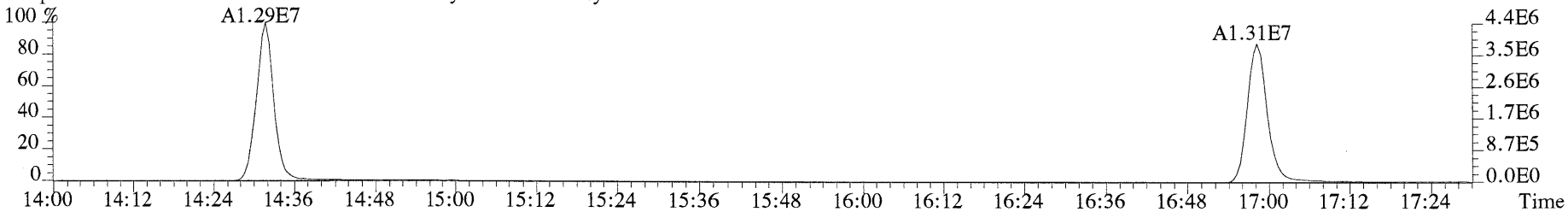
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



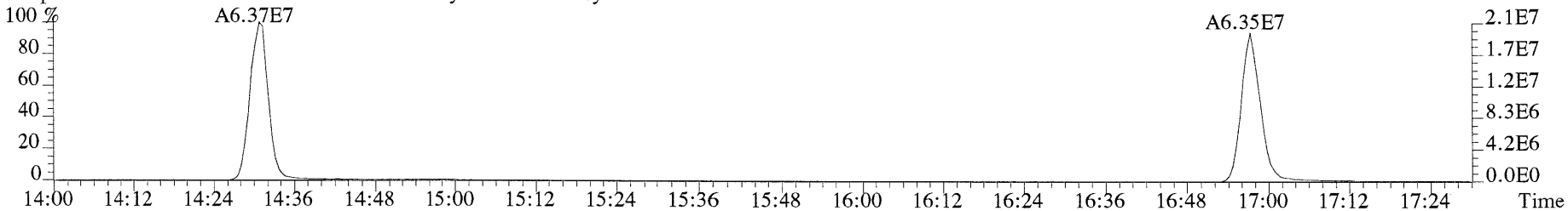
File:31JUL18Z #1-783 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



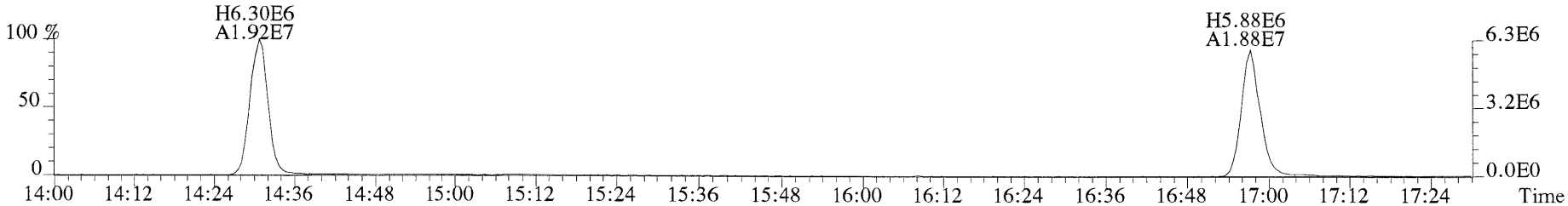
File:31JUL18Z #1-783 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



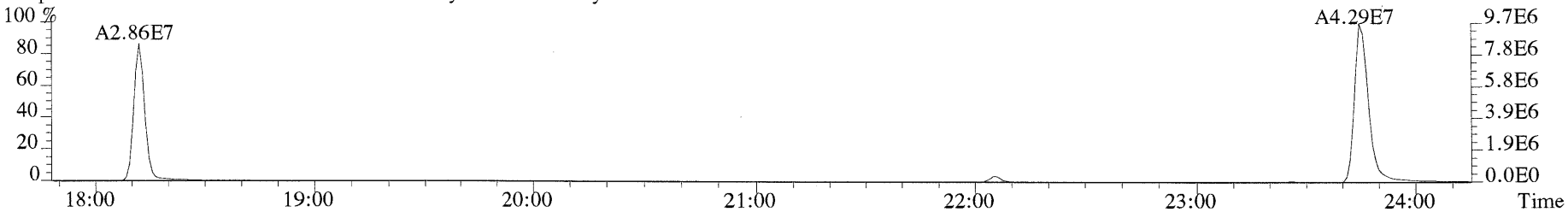
File:31JUL18Z #1-783 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



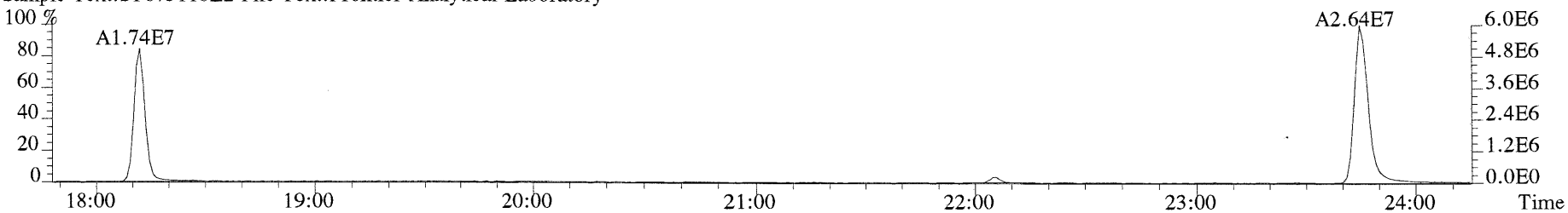
File:31JUL18Z #1-783 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



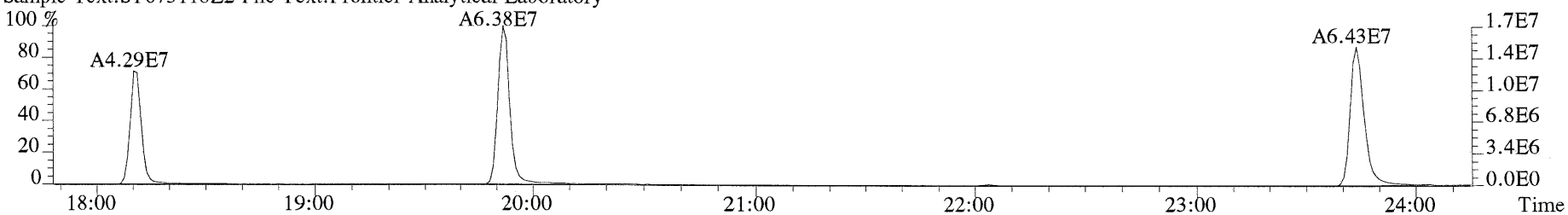
File:31JUL18Z #1-521 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



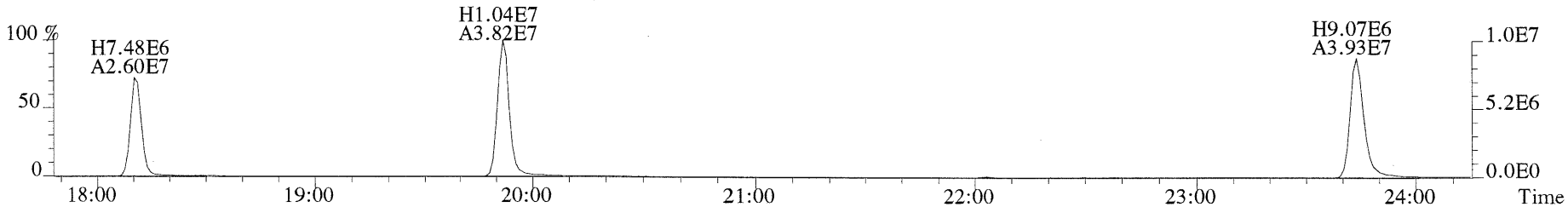
File:31JUL18Z #1-521 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



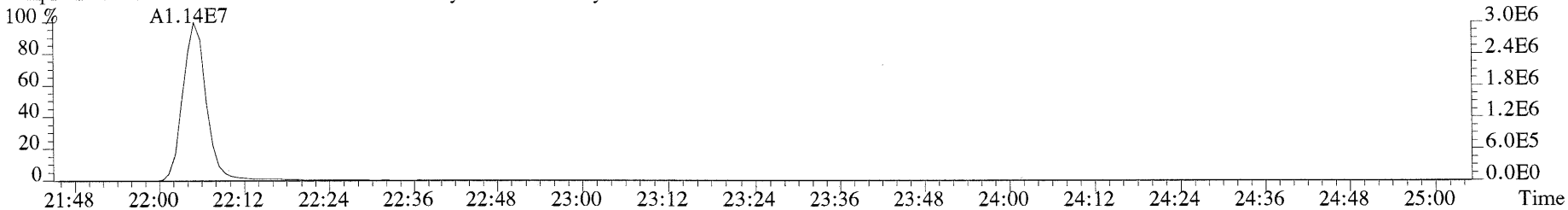
File:31JUL18Z #1-521 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



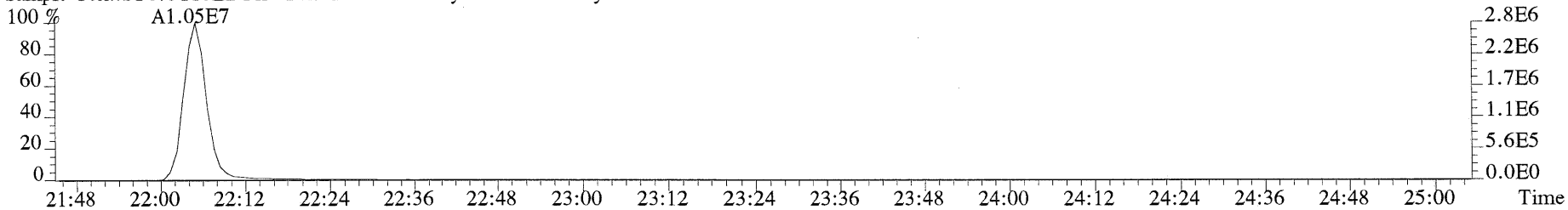
File:31JUL18Z #1-521 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



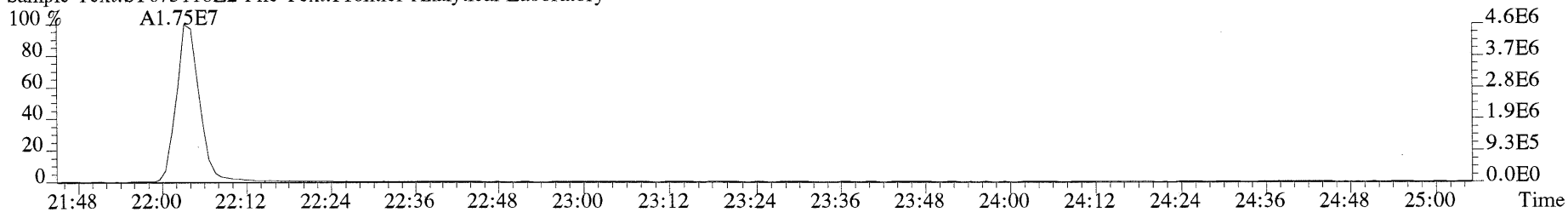
File:31JUL18Z #1-521 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



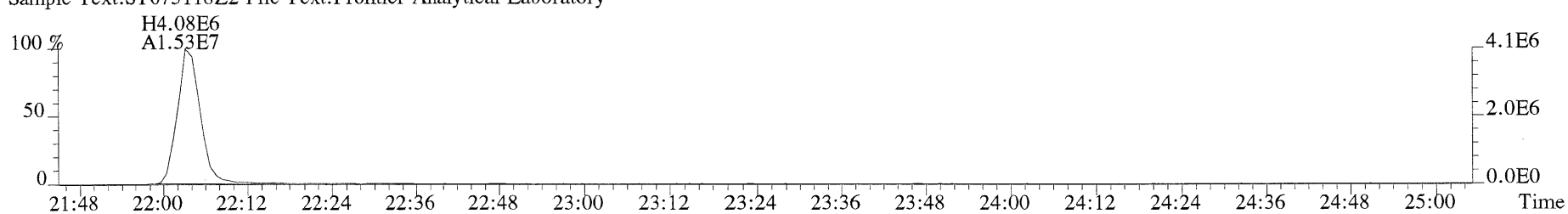
File:31JUL18Z #1-521 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



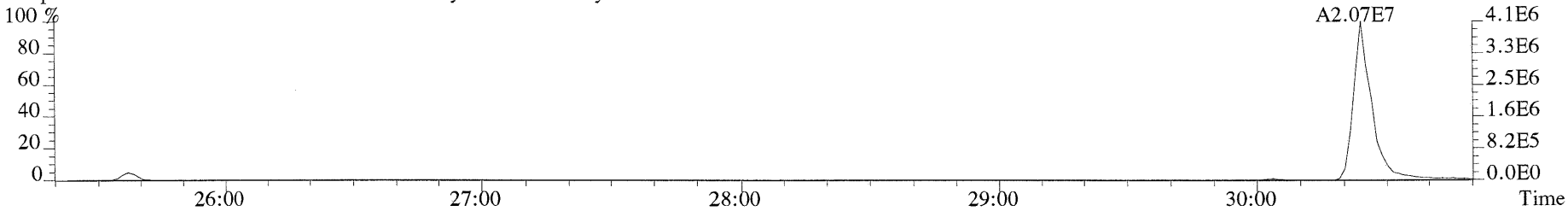
File:31JUL18Z #1-521 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



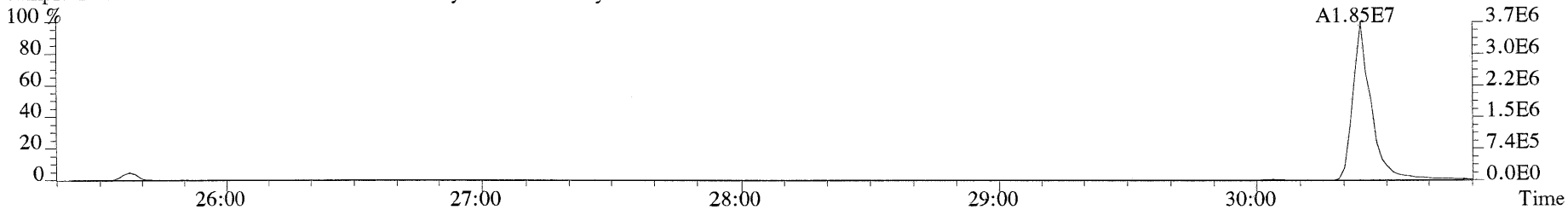
File:31JUL18Z #1-521 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



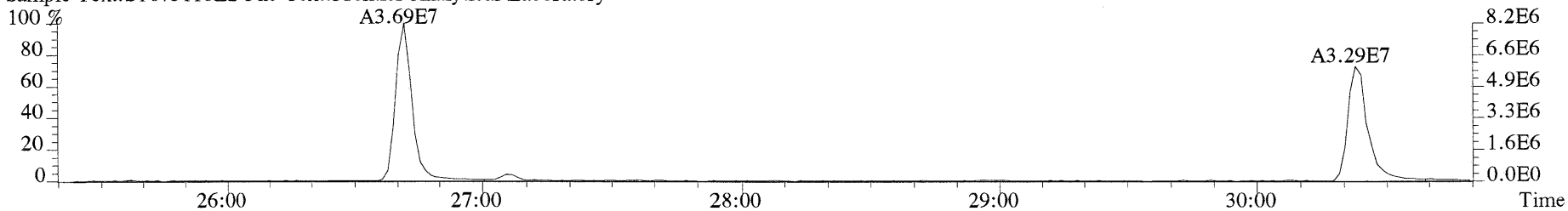
File:31JUL18Z #1-401 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



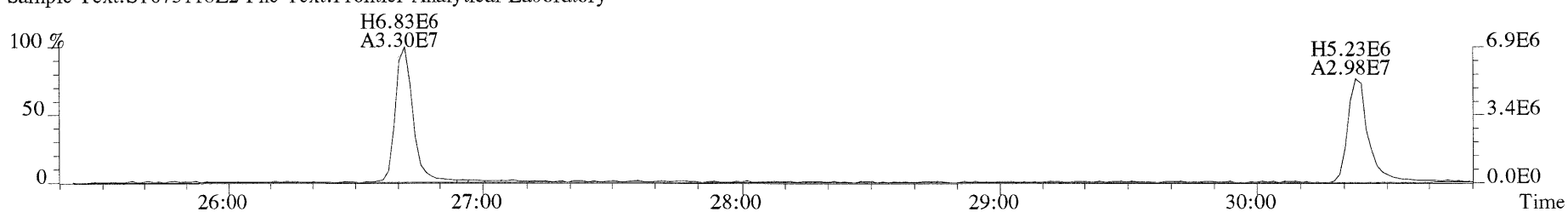
File:31JUL18Z #1-401 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



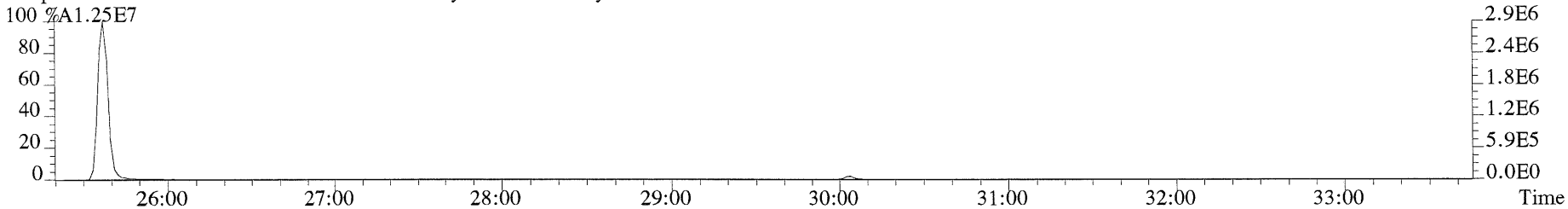
File:31JUL18Z #1-401 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



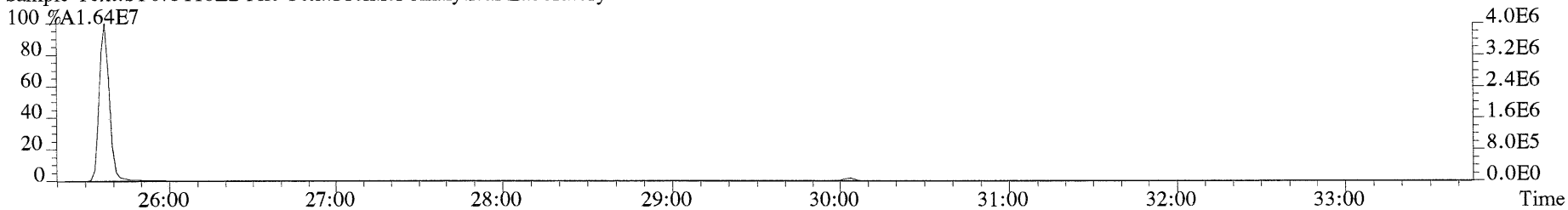
File:31JUL18Z #1-401 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



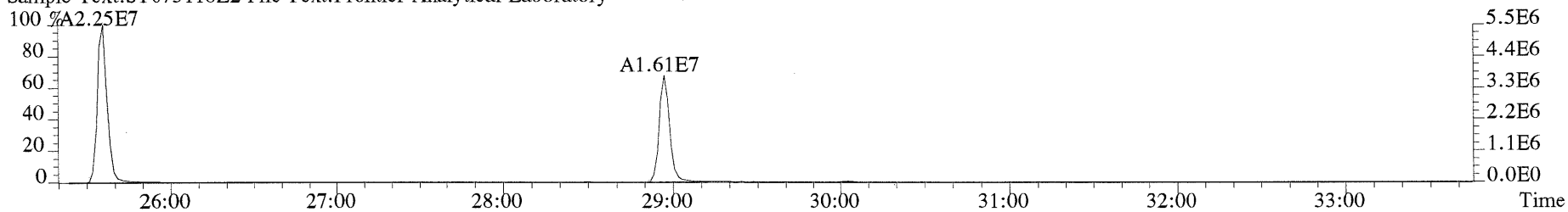
File:31JUL18Z #1-401 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



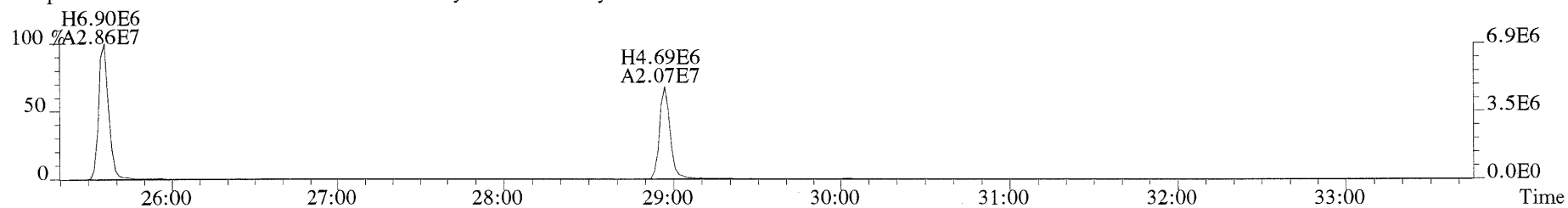
File:31JUL18Z #1-401 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



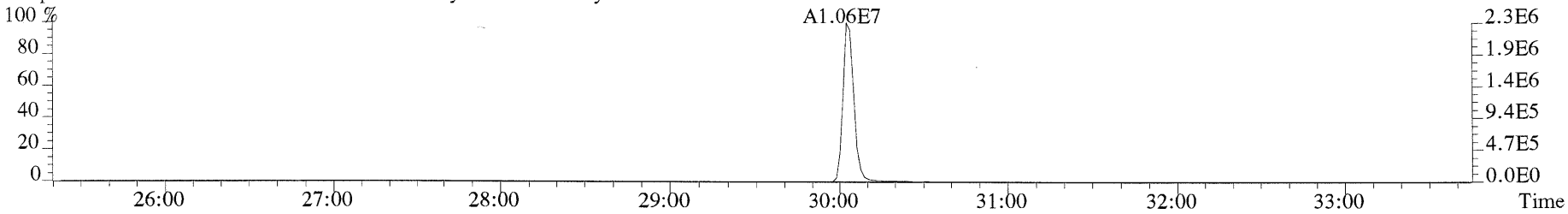
File:31JUL18Z #1-401 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



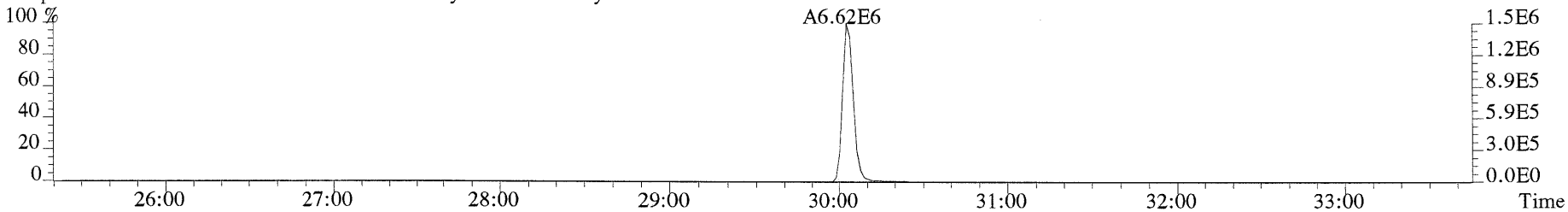
File:31JUL18Z #1-401 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



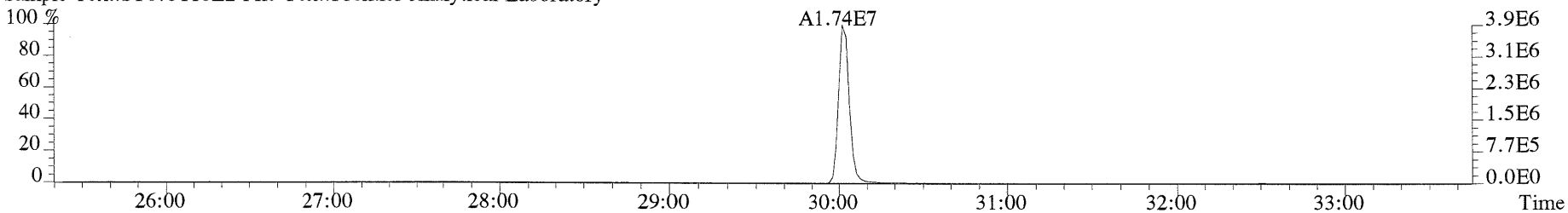
File:31JUL18Z #1-401 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



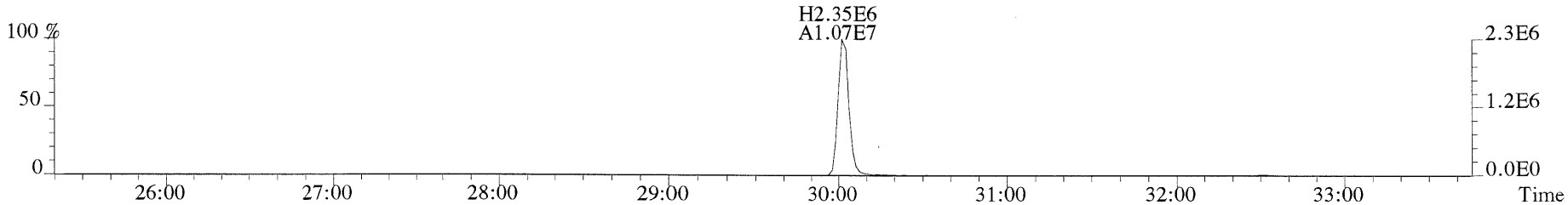
File:31JUL18Z #1-401 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



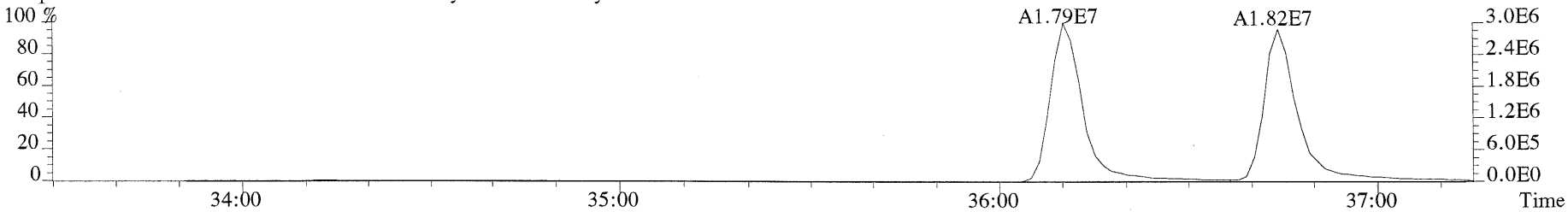
File:31JUL18Z #1-401 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



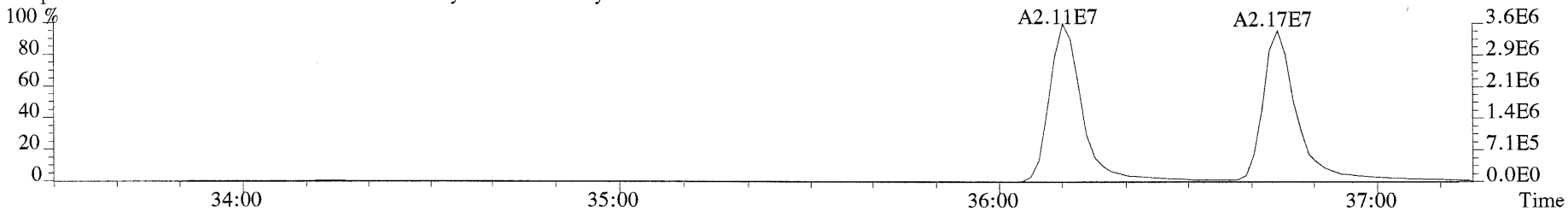
File:31JUL18Z #1-401 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



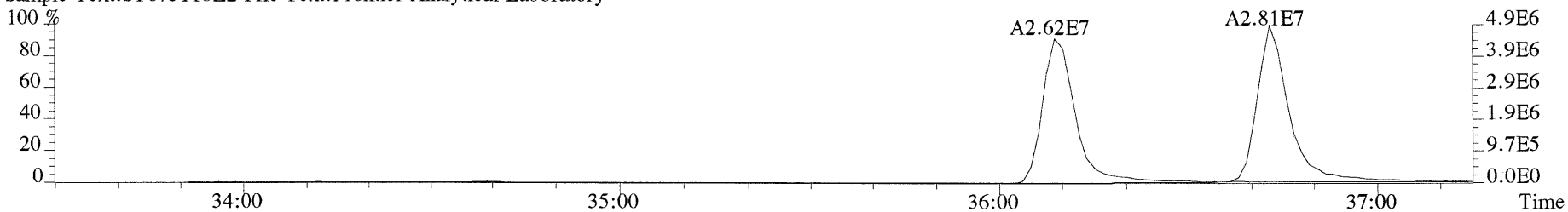
File:31JUL18Z #1-183 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



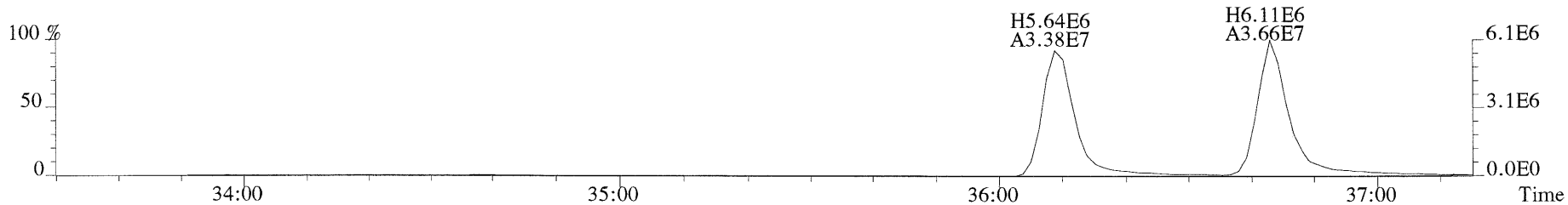
File:31JUL18Z #1-183 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



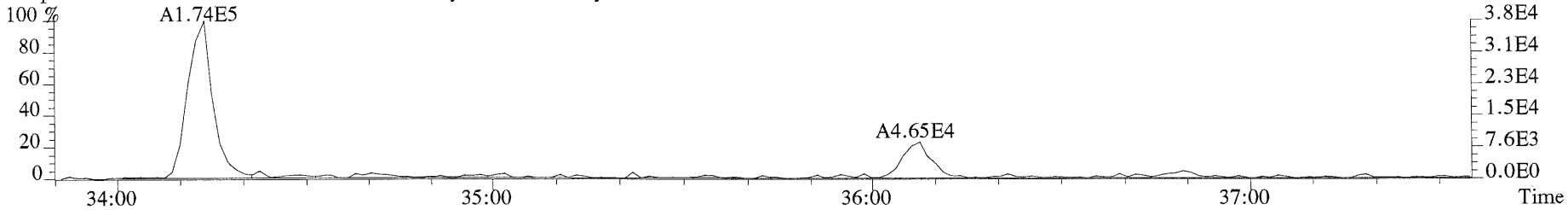
File:31JUL18Z #1-183 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



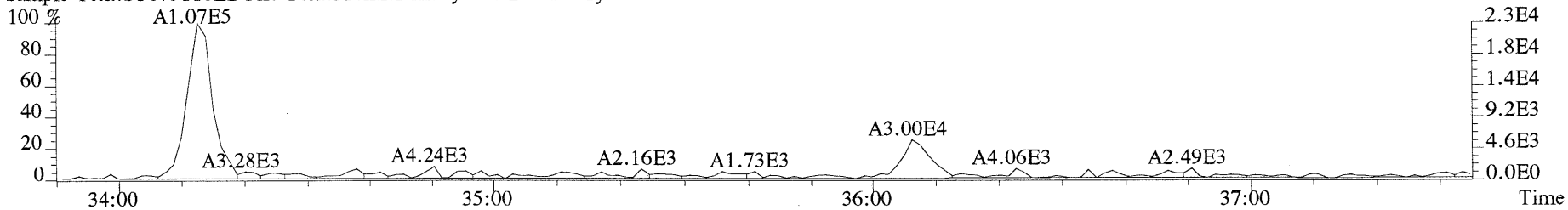
File:31JUL18Z #1-183 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



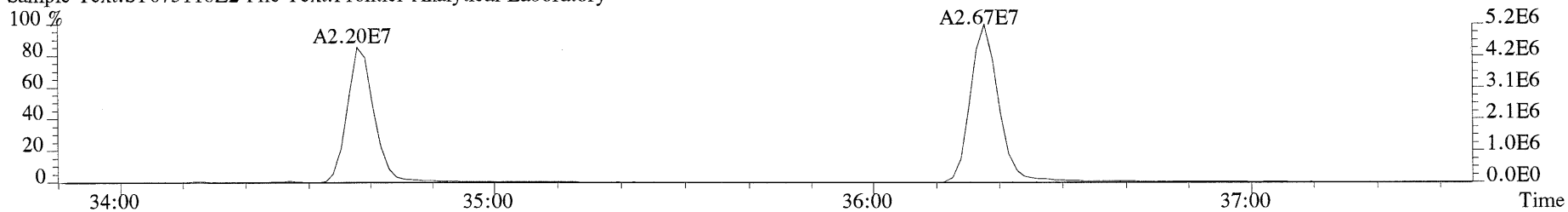
File:31JUL18Z #1-183 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



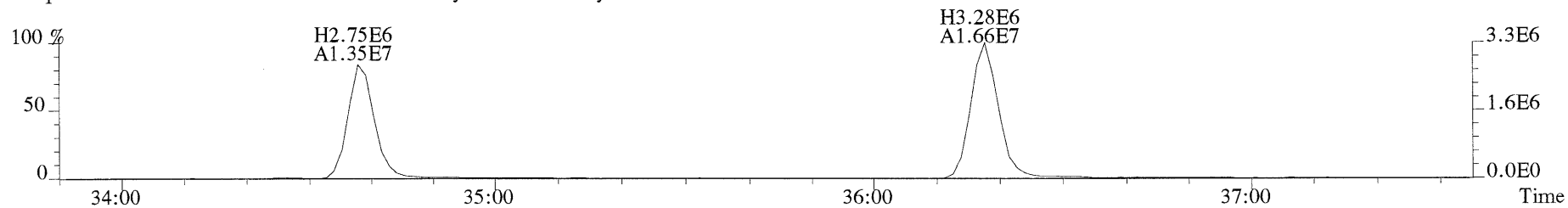
File:31JUL18Z #1-183 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



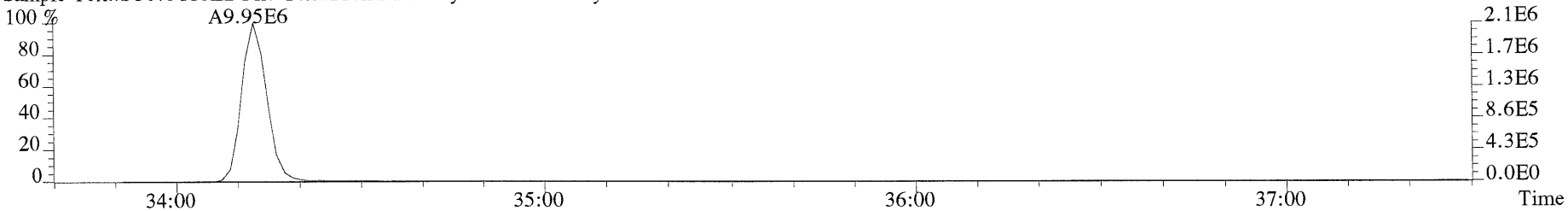
File:31JUL18Z #1-183 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



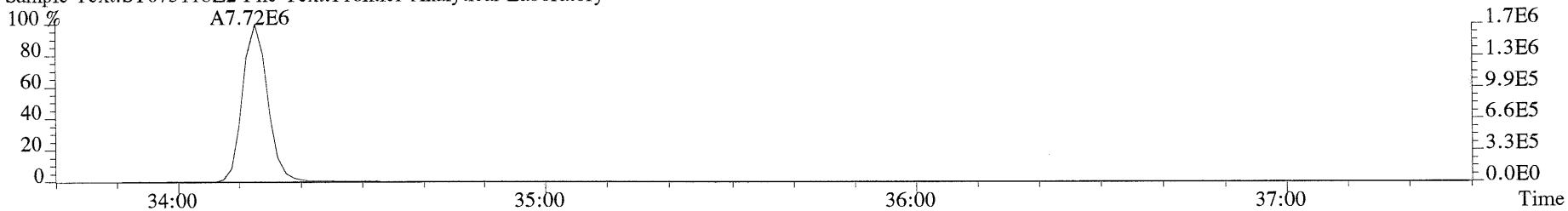
File:31JUL18Z #1-183 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



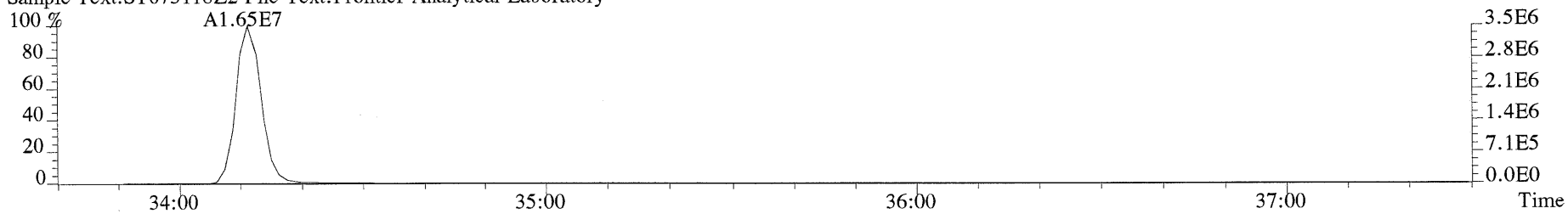
File:31JUL18Z #1-183 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



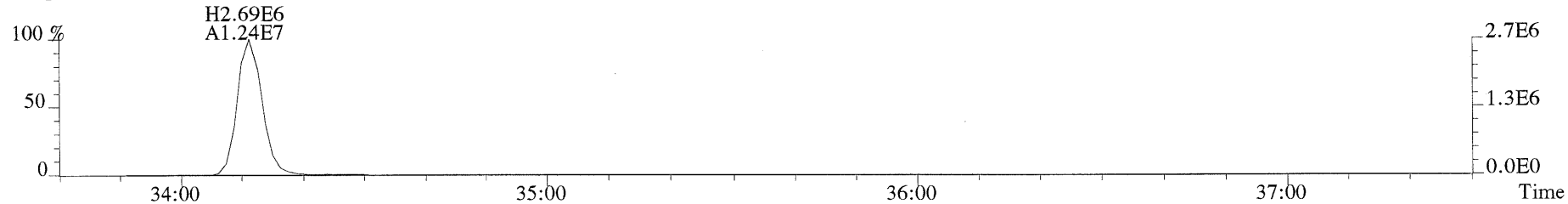
File:31JUL18Z #1-183 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



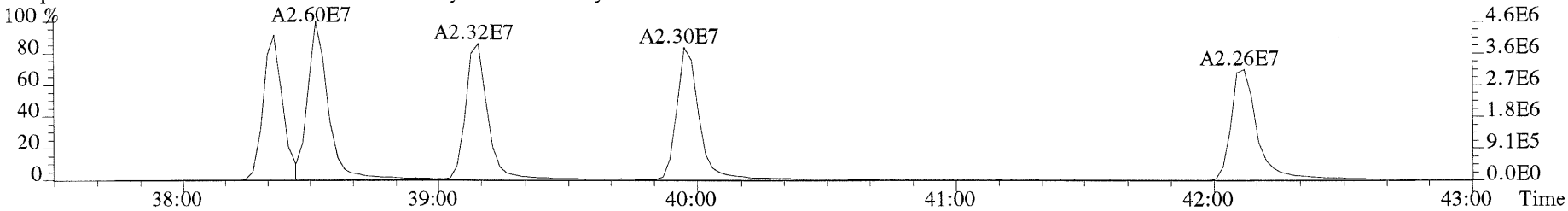
File:31JUL18Z #1-183 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



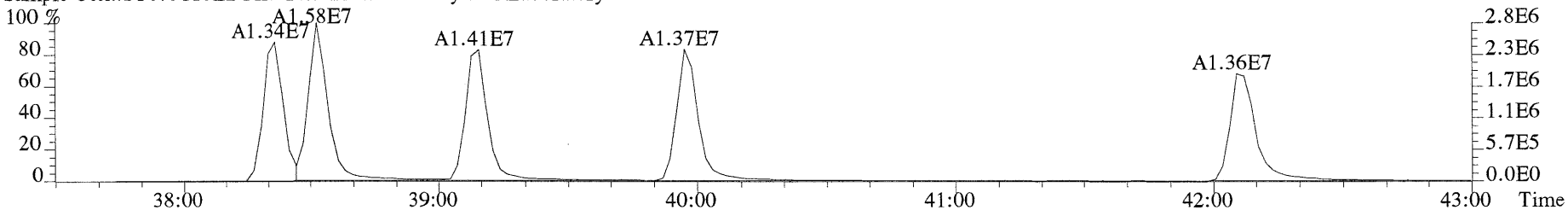
File:31JUL18Z #1-183 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



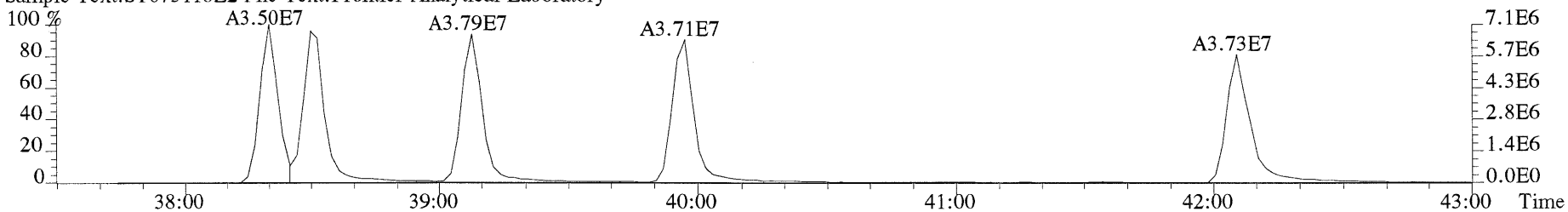
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



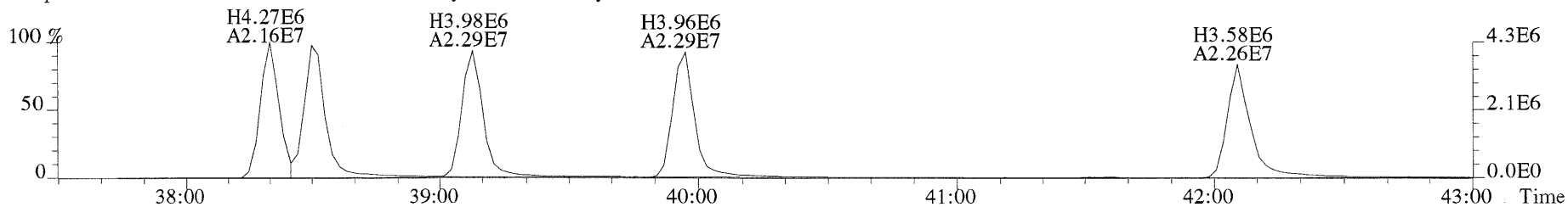
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



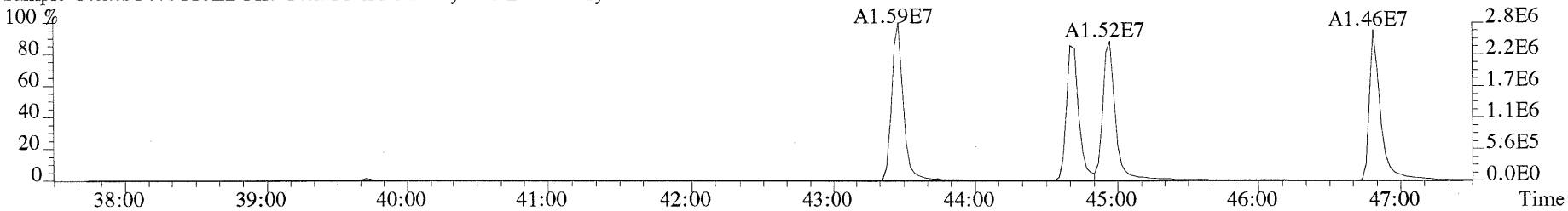
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



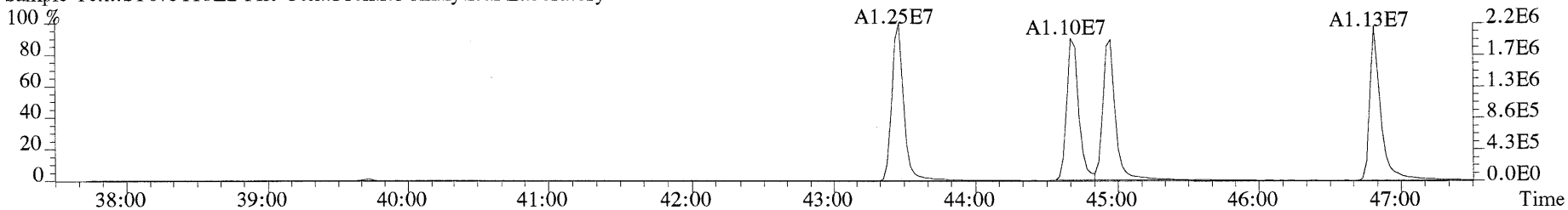
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



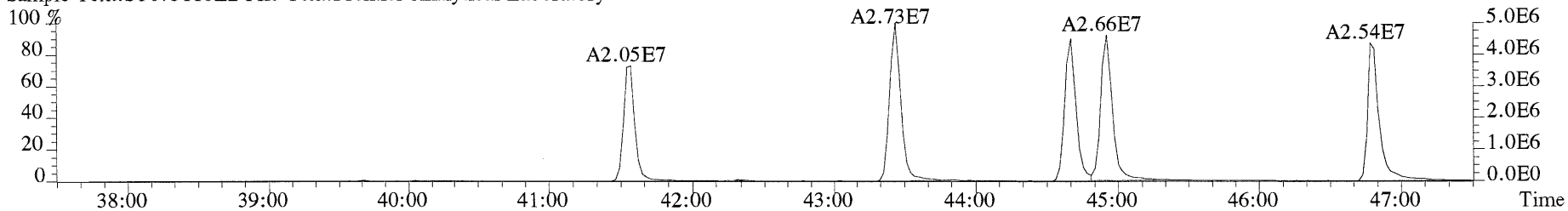
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



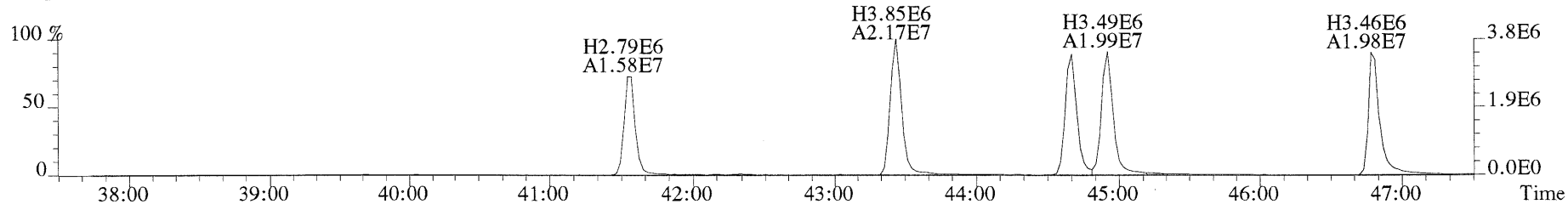
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



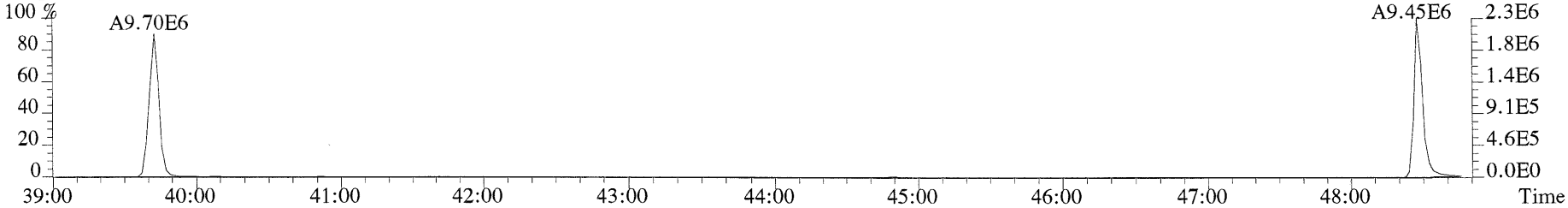
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



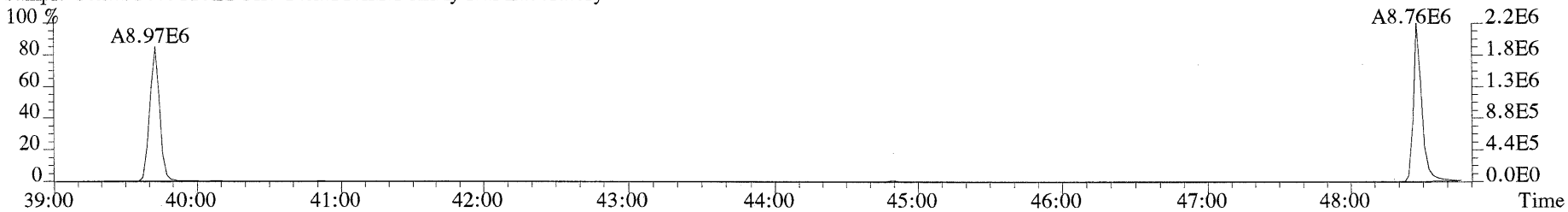
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



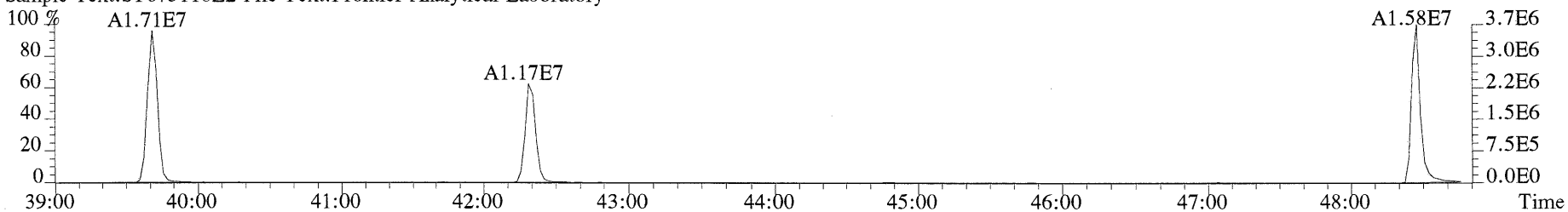
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



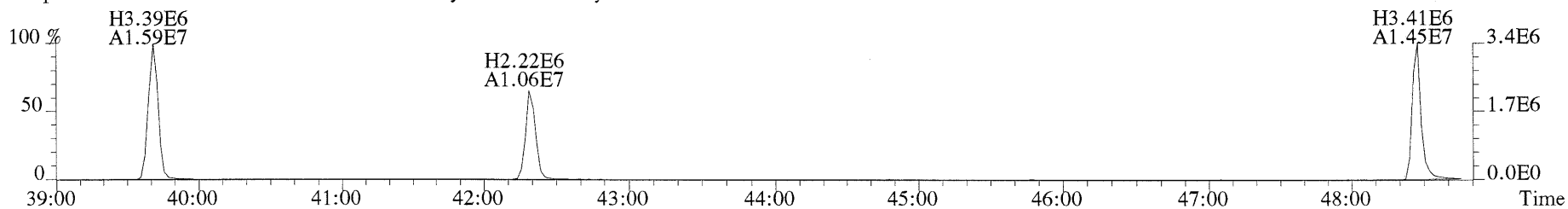
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



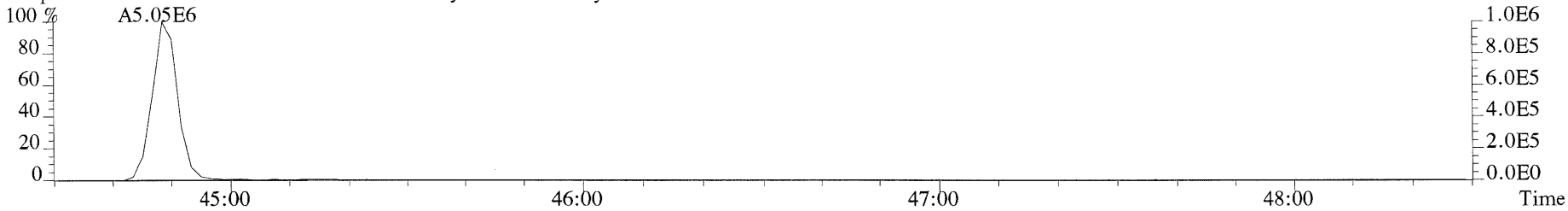
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



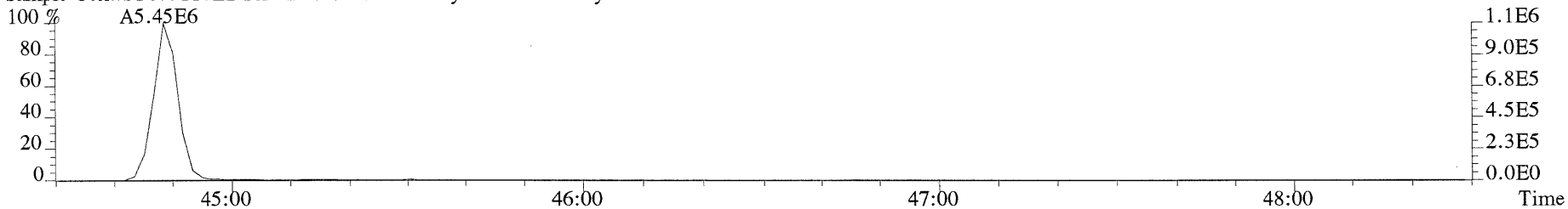
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



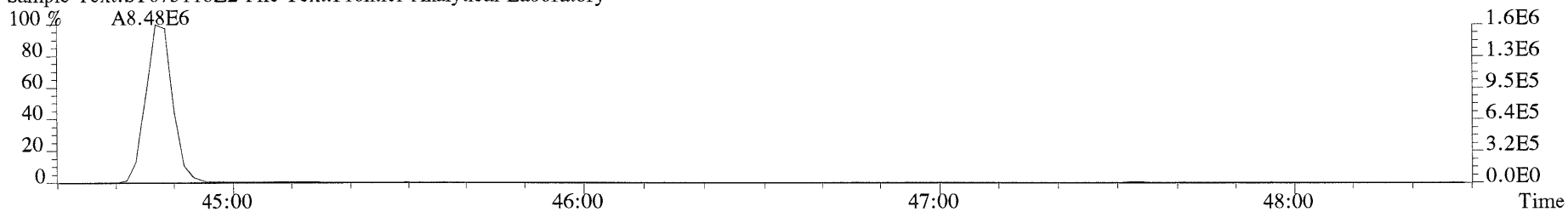
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



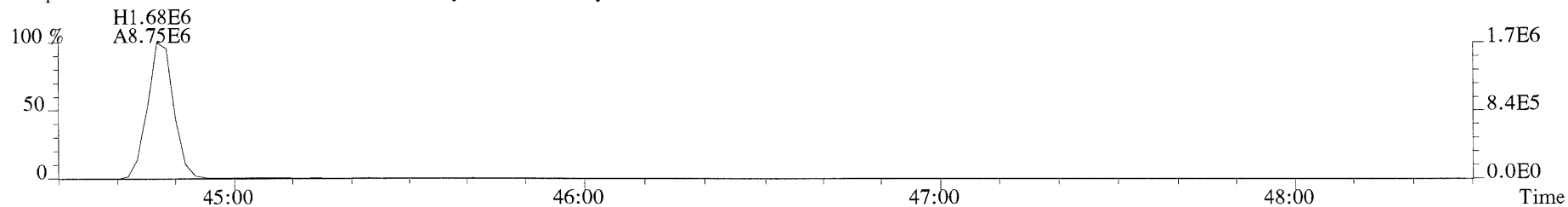
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



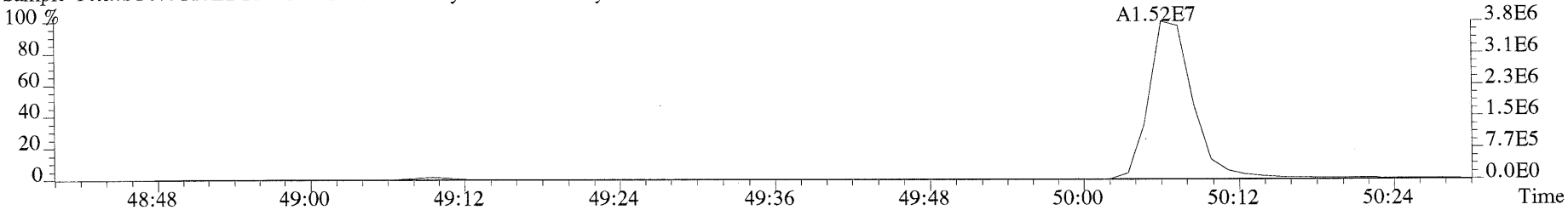
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



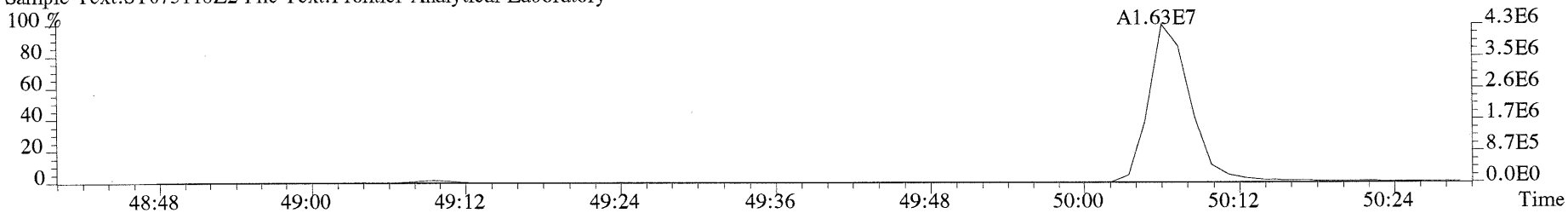
File:31JUL18Z #1-403 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



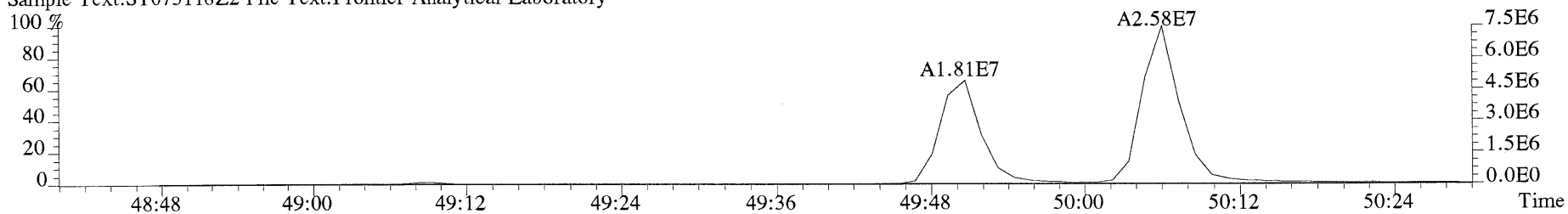
File:31JUL18Z #1-315 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



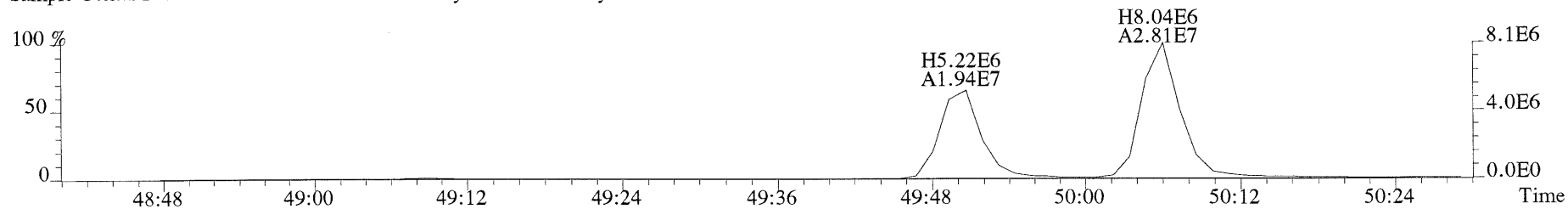
File:31JUL18Z #1-315 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



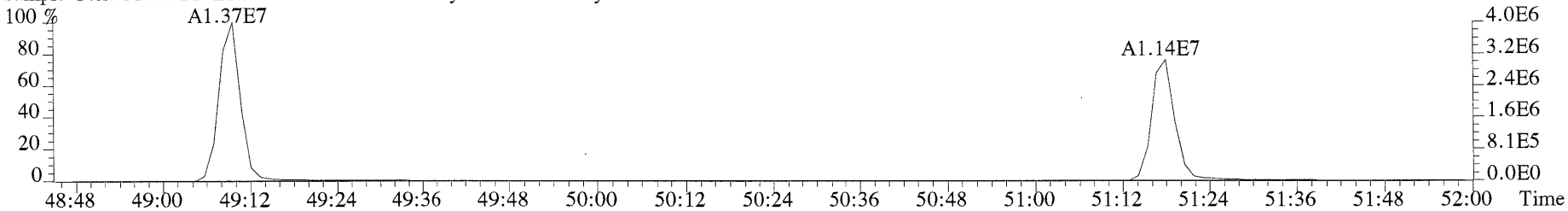
File:31JUL18Z #1-315 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



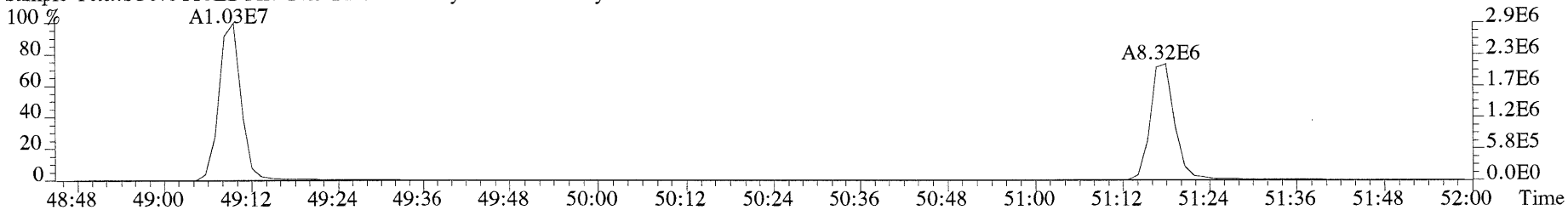
File:31JUL18Z #1-315 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



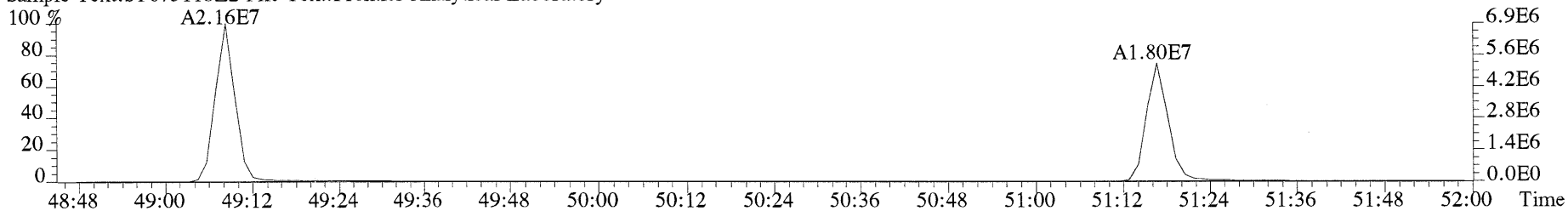
File:31JUL18Z #1-315 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



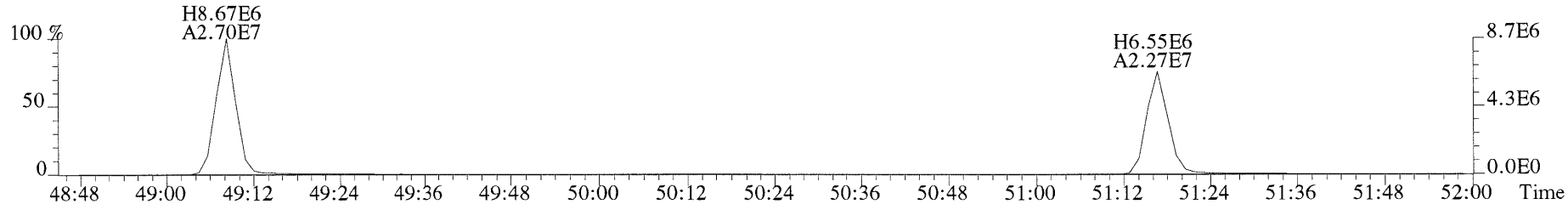
File:31JUL18Z #1-315 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



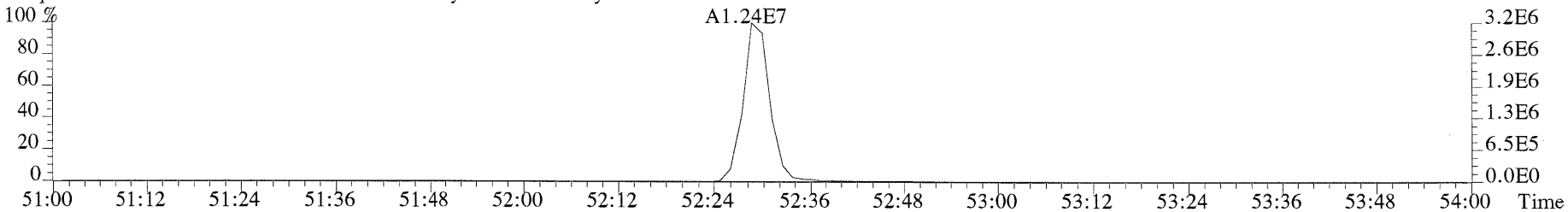
File:31JUL18Z #1-315 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



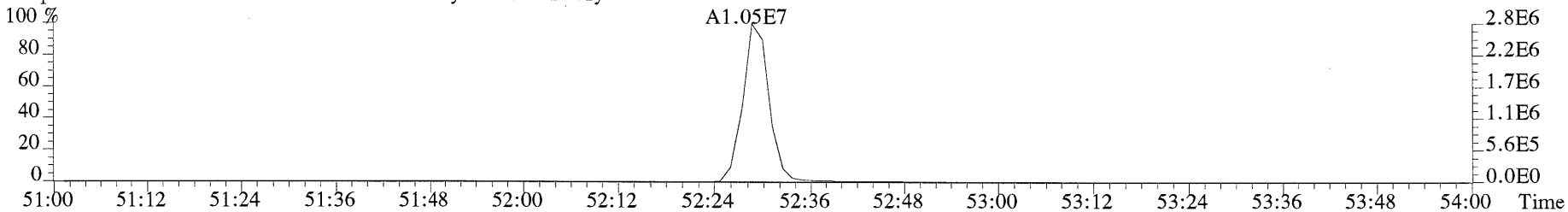
File:31JUL18Z #1-315 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



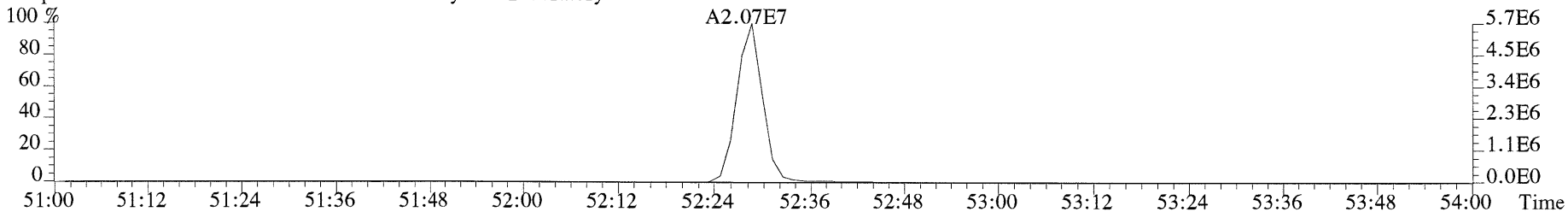
File:31JUL18Z #1-315 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



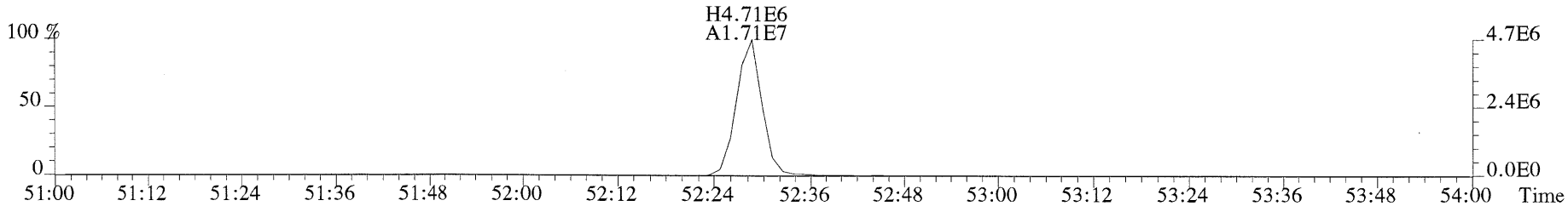
File:31JUL18Z #1-315 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory



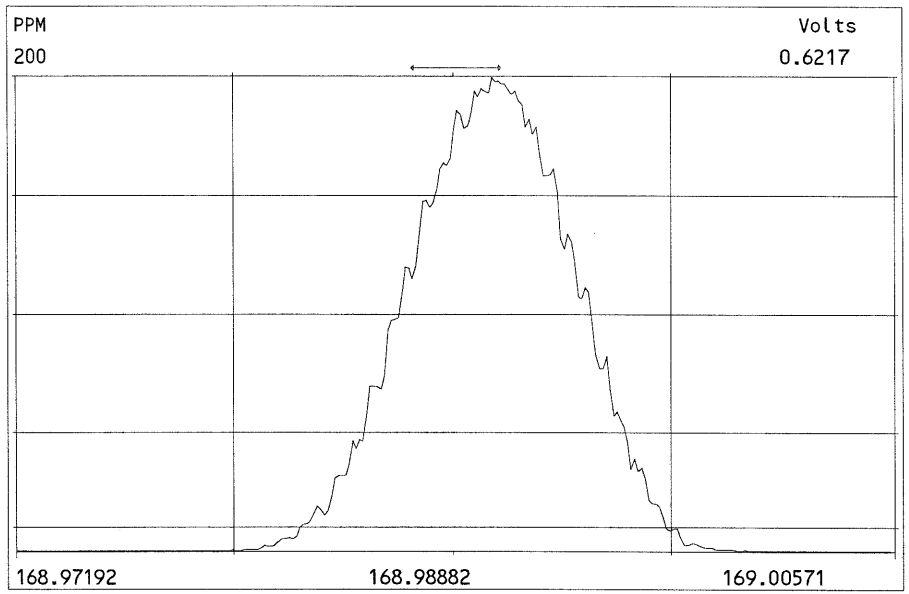
File:31JUL18Z #1-315 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory

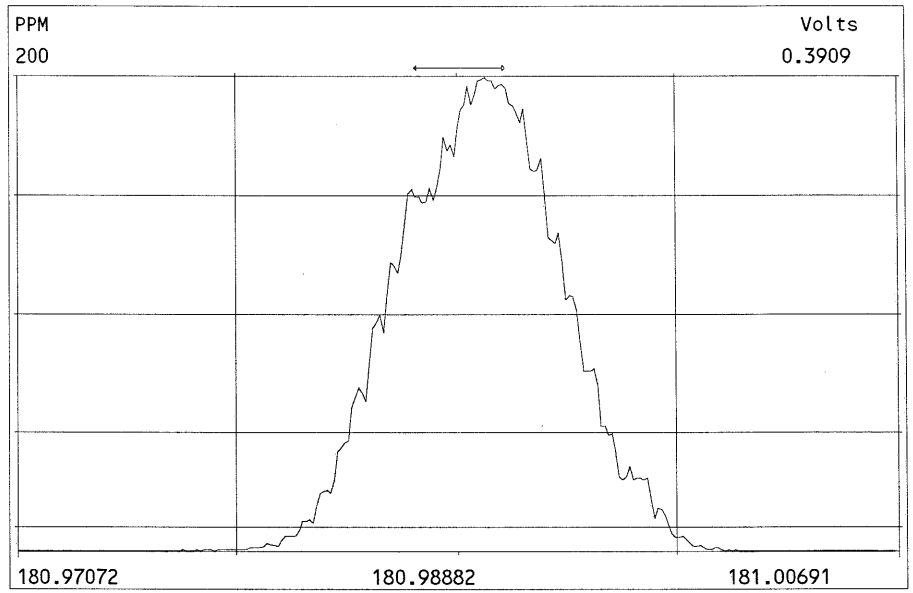


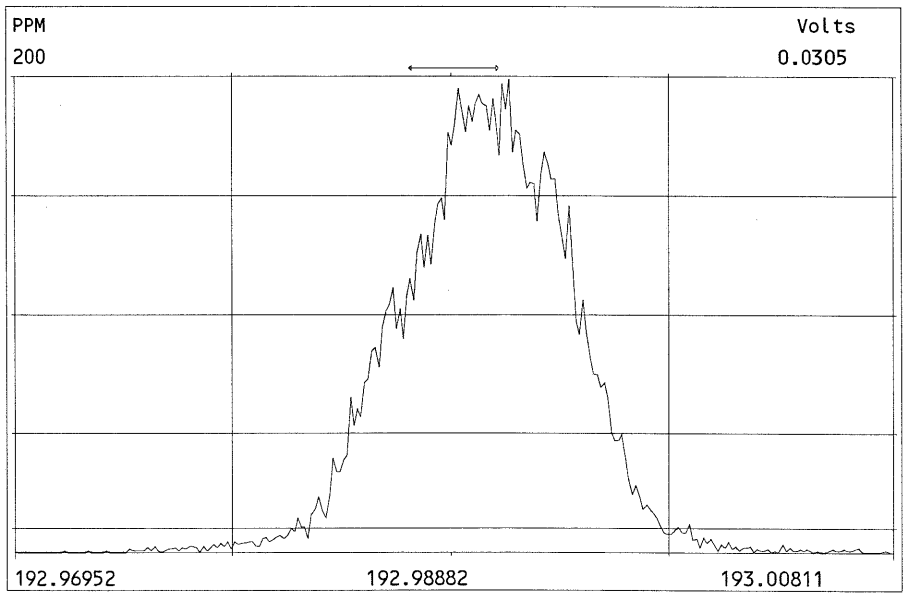
File:31JUL18Z #1-315 Acq: 1-AUG-2018 00:51:09 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073118Z2 File Text:Frontier Analytical Laboratory

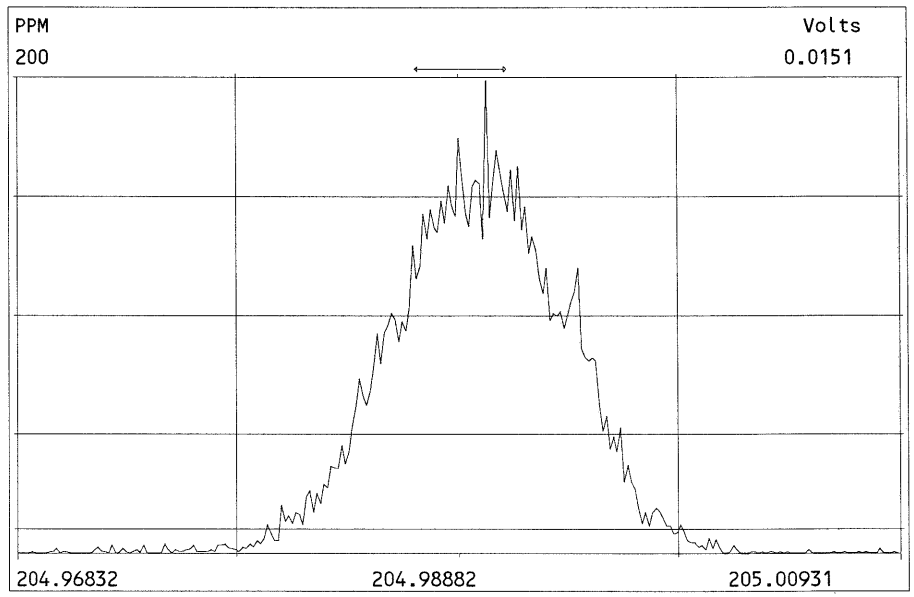


Peak Locate Examination: 1-AUG-2018:02:18 File:31JUL18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

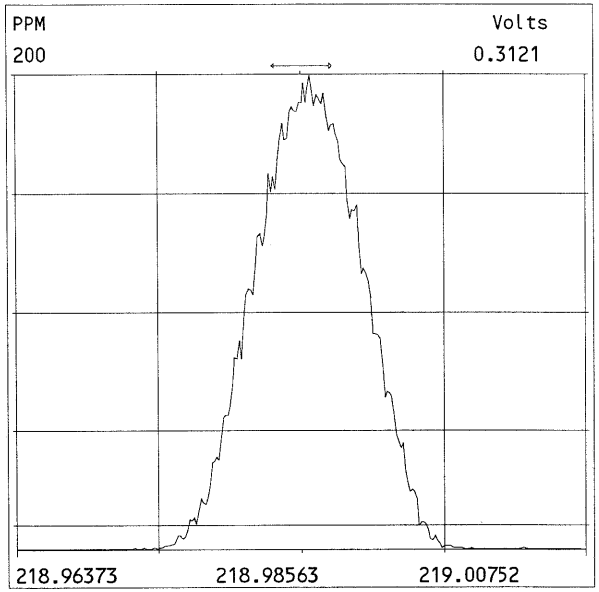


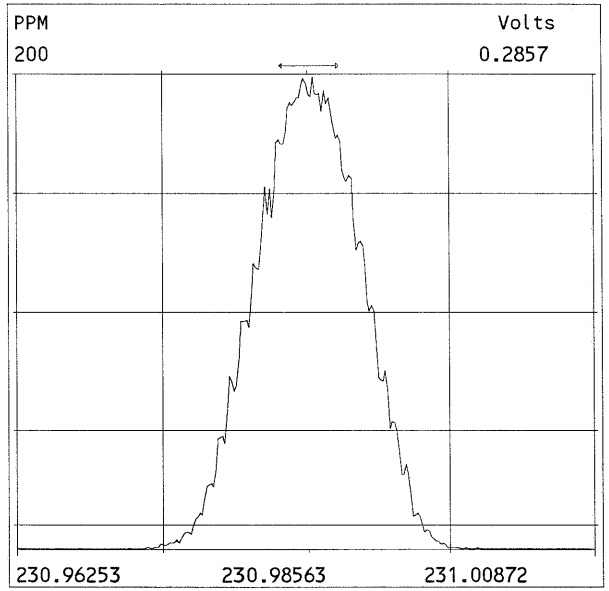


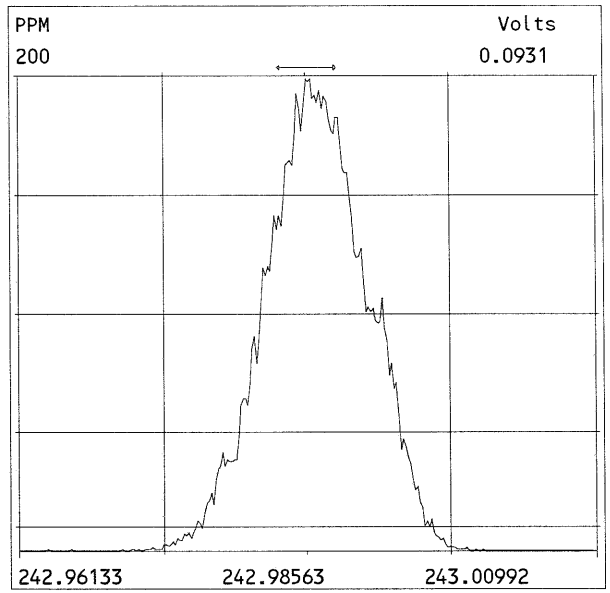


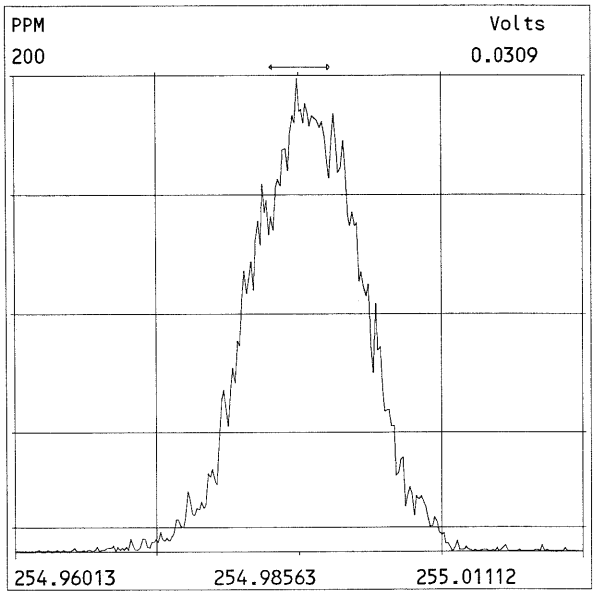


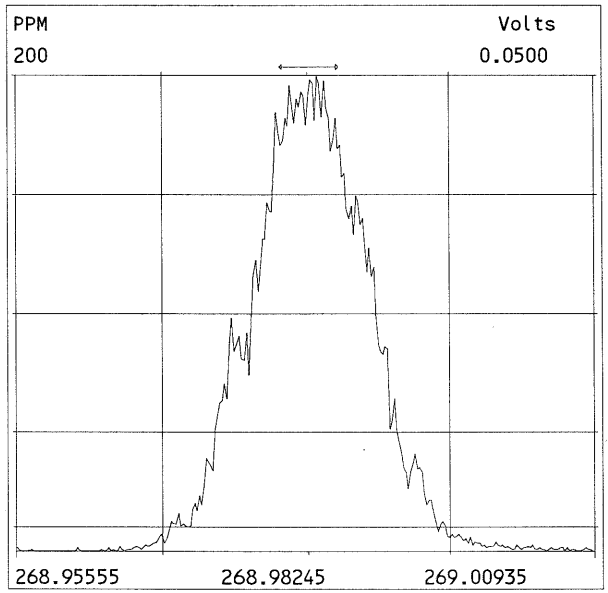
Peak Locate Examination: 1-AUG-2018:02:20 File:31JUL18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

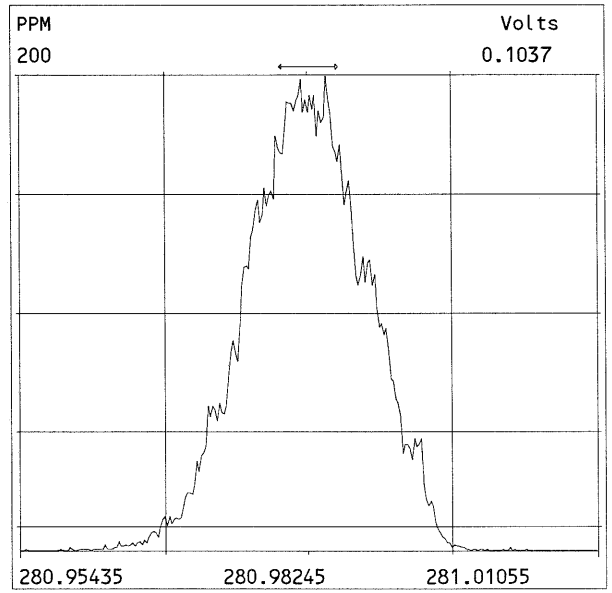




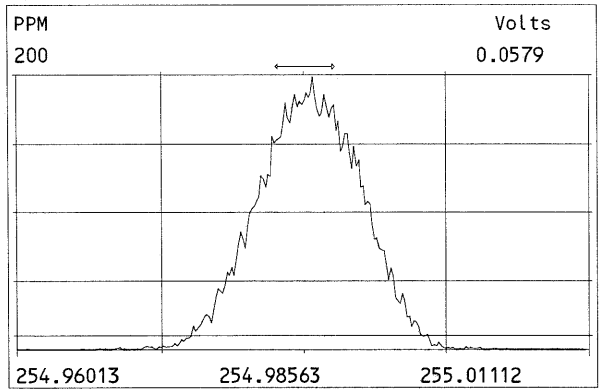


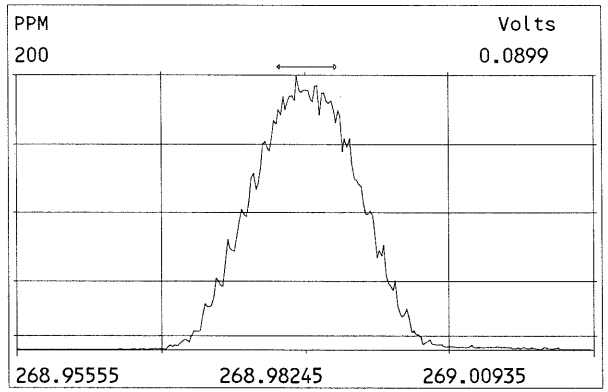


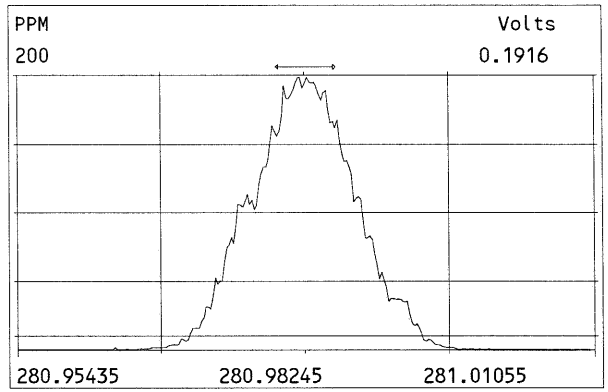


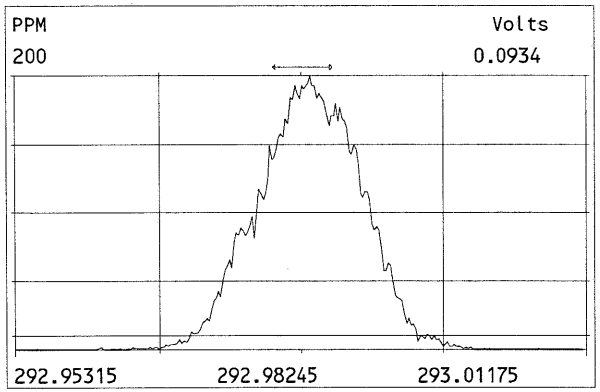


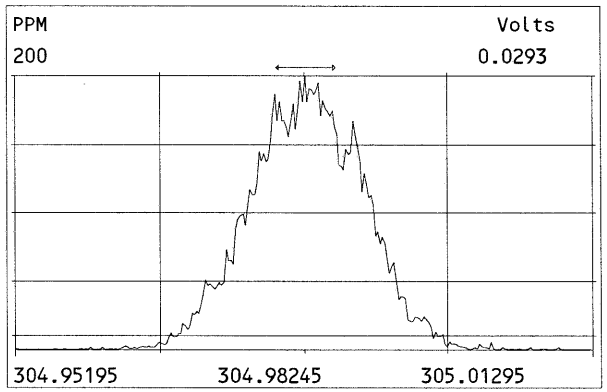
Peak Locate Examination: 1-AUG-2018:02:23 File:31JUL18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

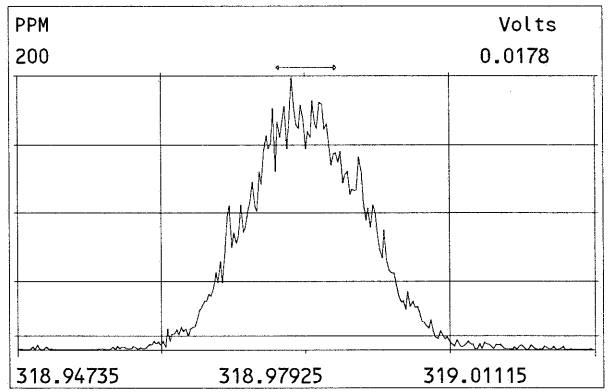


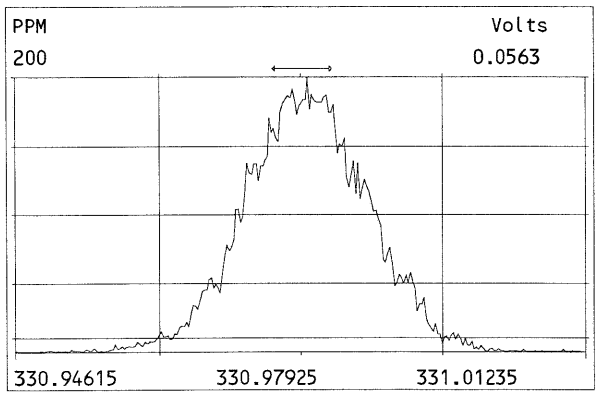


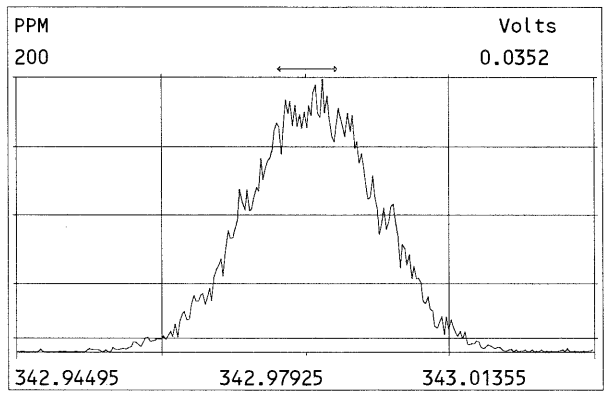




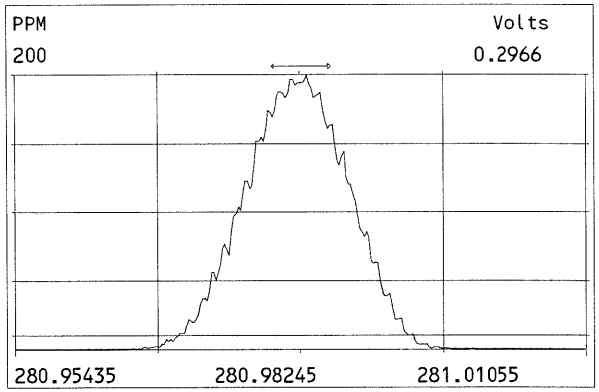


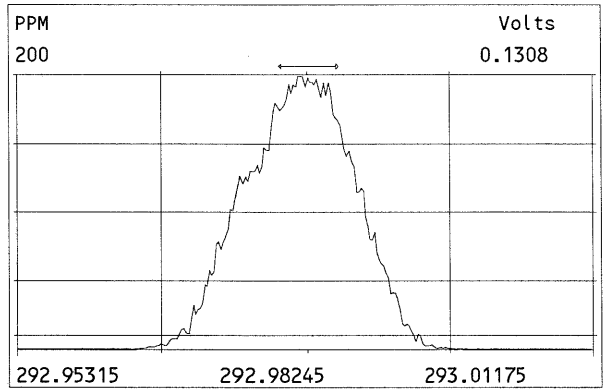


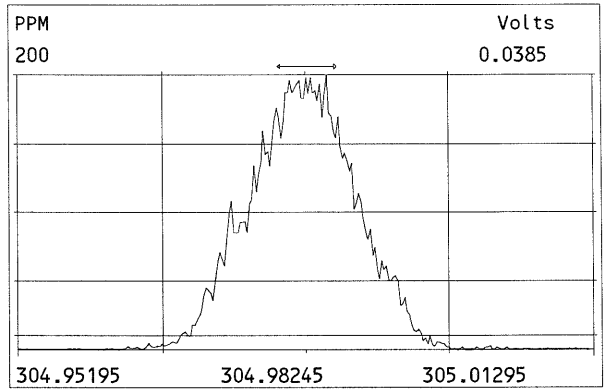


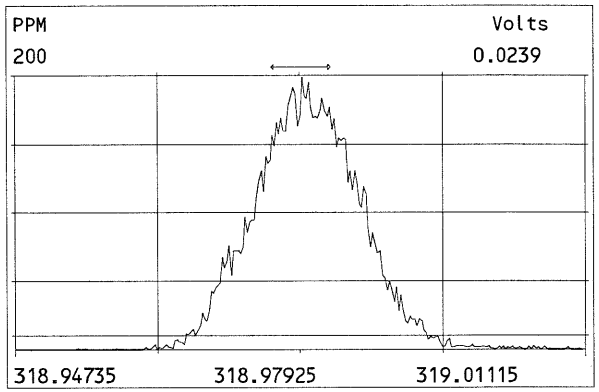


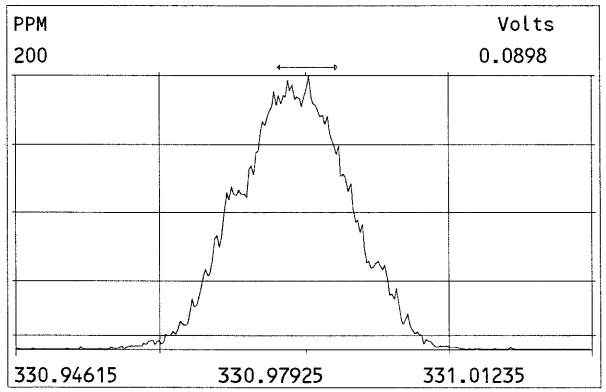
Peak Locate Examination: 1-AUG-2018:02:25 File:31JUL18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

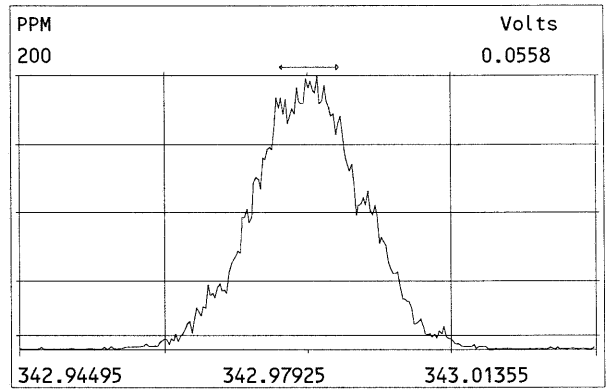


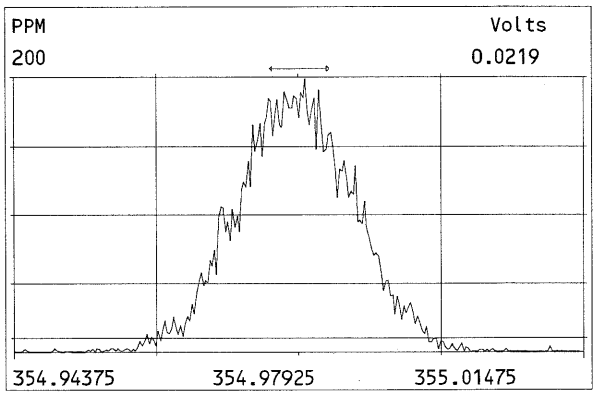


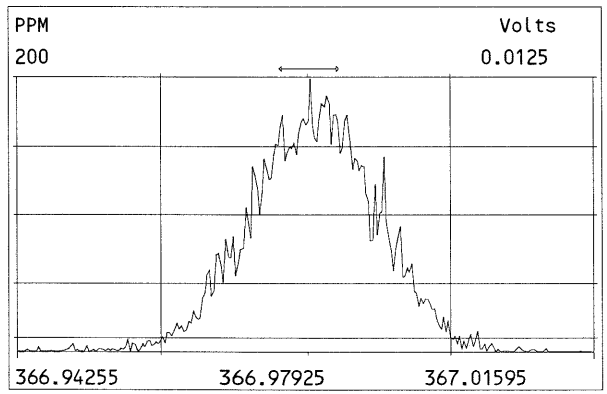


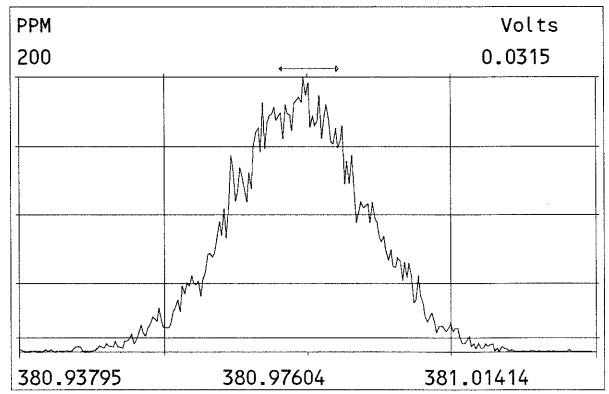




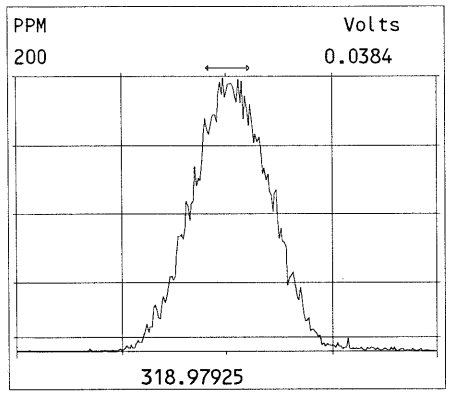


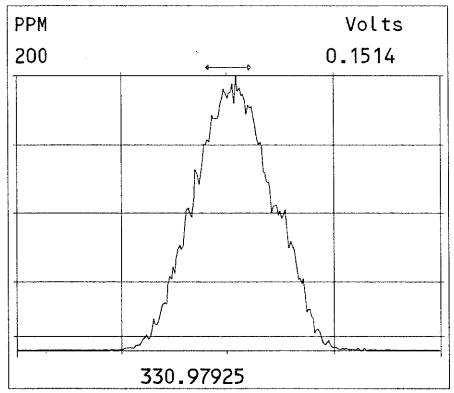


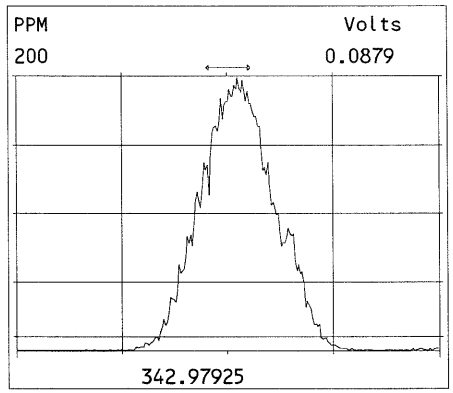


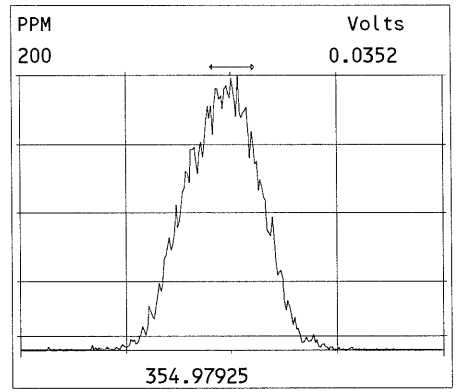


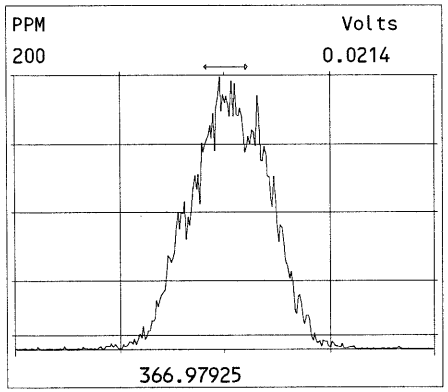
Peak Locate Examination: 1-AUG-2018:02:27 File:31JUL18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

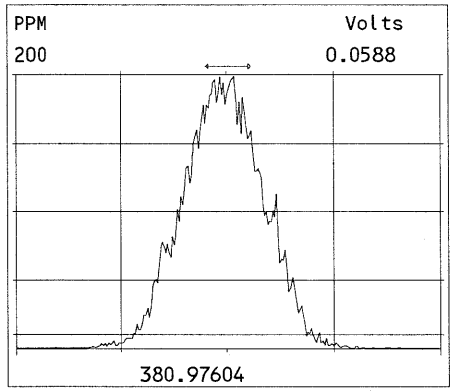


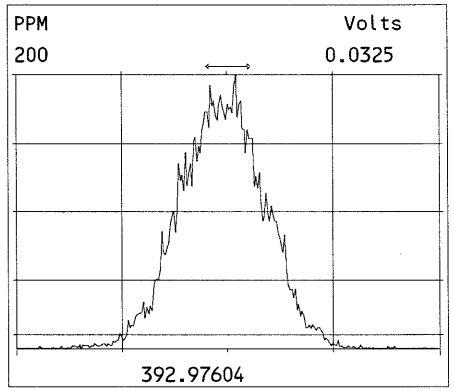


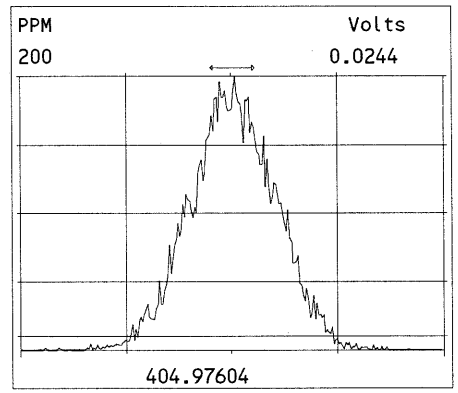


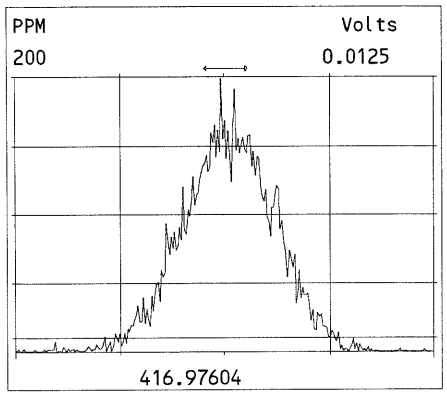


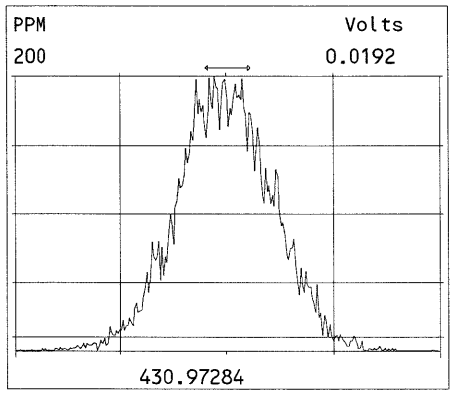


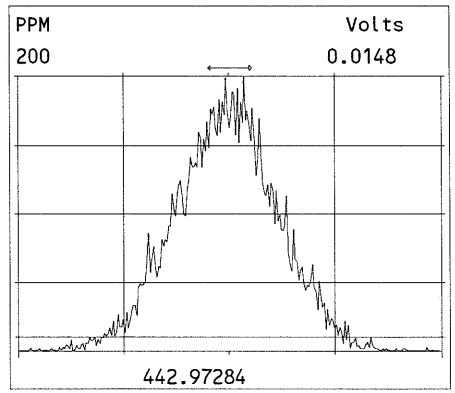




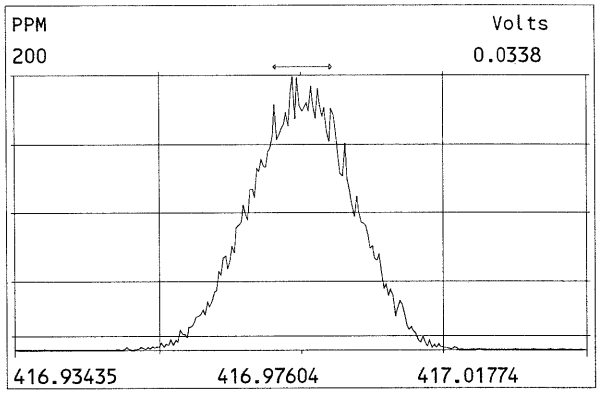


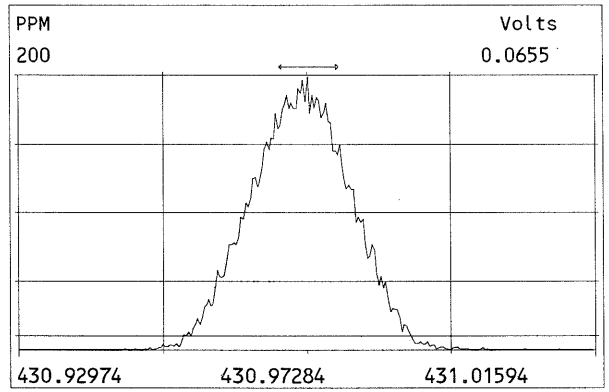


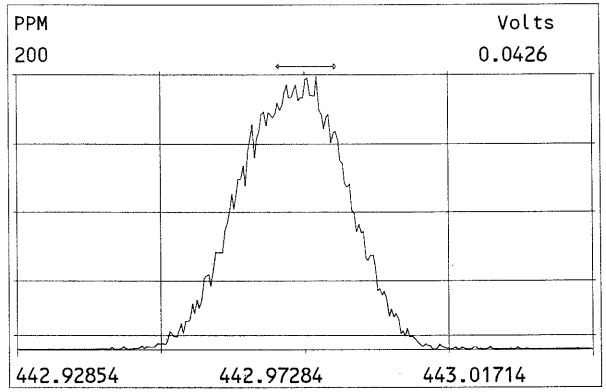


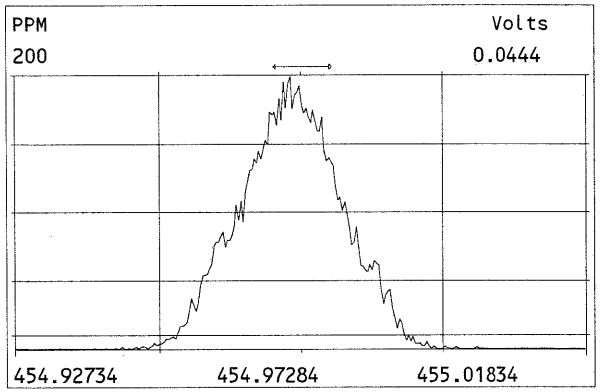


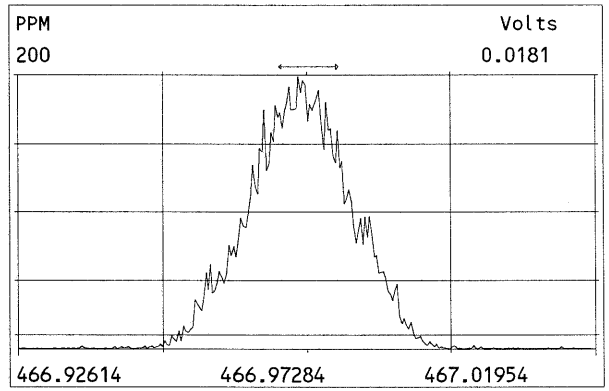
Peak Locate Examination: 1-AUG-2018:02:30 File:31JUL18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

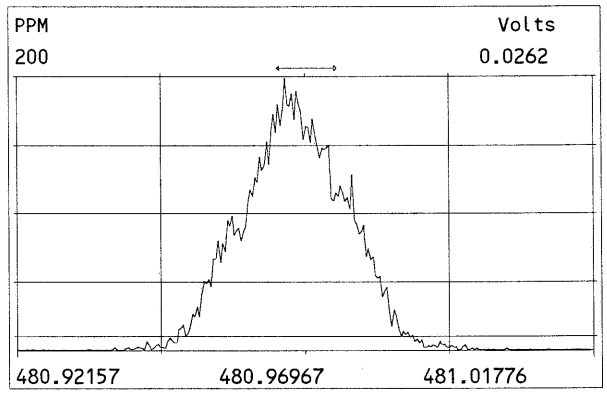


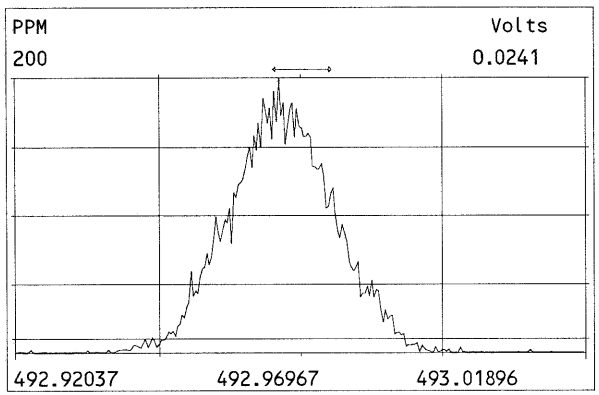


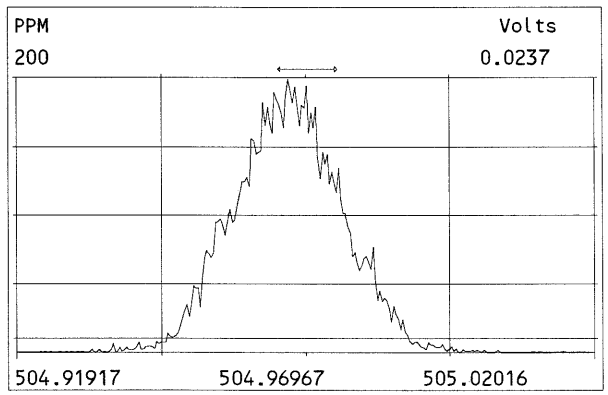


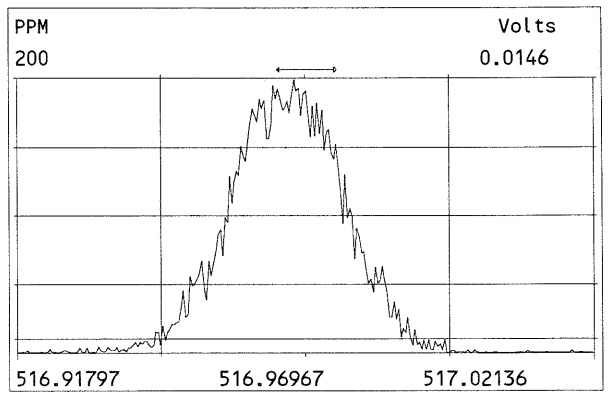












Frontier Analytical Laboratory

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: 01AUG18Z Sam:1 Analysis Date: 1-AUG-18 09:52:43

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.16	2.66-3.60	y	50.1	37.5 - 62.5
PCB-3	M/M+2	3.21	2.66-3.60	y	49.8	37.5 - 62.5
PCB-4	M/M+2	1.55	1.33-1.79	y	53.1	37.5 - 62.5
PCB-15	M/M+2	1.58	1.33-1.79	y	55.1	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	46.4	37.5 - 62.5
PCB-37	M/M+2	1.09	0.88-1.20	y	48.7	37.5 - 62.5
PCB-54	M/M+2	0.81	0.65-0.89	y	49.0	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	54.2	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	53.4	37.5 - 62.5
PCB-104	M+2/M+4	1.61	1.32-1.78	y	47.6	37.5 - 62.5
PCB-105	M+2/M+4	1.65	1.32-1.78	y	52.3	37.5 - 62.5
PCB-114	M+2/M+4	1.55	1.32-1.78	y	50.9	37.5 - 62.5
PCB-118	M+2/M+4	1.58	1.32-1.78	y	50.5	37.5 - 62.5
PCB-123	M+2/M+4	1.58	1.32-1.78	y	52.2	37.5 - 62.5
PCB-126	M+2/M+4	1.60	1.32-1.78	y	50.8	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	51.1	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	52.3	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	51.6	37.5 - 62.5
PCB-167	M+2/M+4	1.27	1.05-1.43	y	52.0	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	51.8	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	47.0	37.5 - 62.5
PCB-189	M+2/M+4	1.08	0.89-1.21	y	50.9	37.5 - 62.5
PCB-202	M+2/M+4	0.90	0.76-1.02	y	49.3	37.5 - 62.5
PCB-205	M+2/M+4	0.92	0.76-1.02	y	53.5	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	50.1	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	51.5	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	49.4	37.5 - 62.5

Analyst: _____ Date: 8/1/18

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: 01AUG18Z Sam:1 Analysis Date: 1-AUG-18 09:52:43

	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	3.17	2.66-3.60	y	92.8	50.0 - 145
13C-PCB-3	M/M+2	3.25	2.66-3.60	y	97.1	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	103	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	93.1	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	99.5	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	118	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	98.5	50.0 - 145
13C-PCB-77	M/M+2	0.83	0.65-0.89	y	105	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	103	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	98.9	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	103	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	106	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	114	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	93.4	50.0 - 145
13C-PCB-126	M+2/M+4	1.64	1.32-1.78	y	103	50.0 - 145
13C-PCB-155	M+2/M+4	1.31	1.05-1.43	y	95.1	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	91.2	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	100	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	94.3	50.0 - 145
13C-PCB-169	M+2/M+4	1.26	1.05-1.43	y	99.9	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	97.7	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	91.0	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	96.8	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	100	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	102	50.0 - 145
13C-PCB-208	M+2/M+4	0.78	0.65-0.89	y	88.5	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	96.3	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.09	0.88-1.20	y	119	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	96.3	75.0 - 125
13C-PCB-178	M+2/M+4	1.11	0.89-1.21	y	98.6	75.0 - 125

Analyst: _____ Date: 8/1/18

FAL ID: ST080118Z1 Filename: 01AUG18Z Sam:1 Acquired: 1-AUG-18 09:52:43 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 31JUL18Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.78e+07	3.16 y	14:33	1.11	50.1		2.50	-	-	*	-
13C-PCB-1	6.82e+07	3.17 y	14:32	1.07	92.8		2.50				92.8
PCB-3	3.89e+07	3.21 y	17:00	1.13	49.8		2.50	-	-	*	-
13C-PCB-3	6.91e+07	3.25 y	16:59	1.03	97.1		2.50				97.1
PCB-4	2.90e+07	1.55 y	18:14	1.14	53.1		2.50	-	-	*	-
13C-PCB-4	4.77e+07	1.60 y	18:12	0.67	103		2.50				103
PCB-15	4.03e+07	1.58 y	23:48	1.10	55.1		2.50	-	-	*	-
13C-PCB-15	6.63e+07	1.61 y	23:47	1.03	93.1		2.50				93.1
PCB-19	1.84e+07	1.04 y	22:08	1.23	46.4		2.50	-	-	*	-
13C-PCB-19	3.22e+07	1.07 y	22:06	0.47	99.5		2.50				99.5
13C-PCB-9	6.89e+07	1.61 y	19:54	-	294		2.50				
PCB-37	3.39e+07	1.09 y	30:28	1.26	48.7		2.50	-	-	*	-
13C-PCB-37	5.55e+07	1.07 y	30:27	1.40	118		2.50				118
PCB-54	2.23e+07	0.81 y	25:40	1.16	49.0		2.50	-	-	*	-
13C-PCB-54	3.93e+07	0.79 y	25:39	1.19	98.5		2.50				98.5
PCB-104	1.55e+07	1.61 y	30:07	1.22	47.6		2.50	-	-	*	-
13C-PCB-104	2.66e+07	1.61 y	30:06	0.80	98.9		2.50				98.9
13C-PCB-28	6.12e+07	1.09 y	26:45	1.53	119		2.50				119
13C-PCB-52	3.37e+07	0.80 y	28:60	-	260		2.50				
PCB-81	2.54e+07	0.79 y	36:15	1.17	53.4		2.50	-	-	*	-
13C-PCB-81	4.06e+07	0.81 y	36:13	1.37	103		2.50				103
PCB-77	2.54e+07	0.79 y	36:50	1.11	54.2		2.50	-	-	*	-
13C-PCB-77	4.23e+07	0.83 y	36:47	1.41	105		2.50				105
PCB-155	1.62e+07	1.28 y	34:17	1.14	51.1		2.50	-	-	*	-
13C-PCB-155	2.78e+07	1.31 y	34:16	1.02	95.1		2.50				95.1
13C-PCB-111	3.48e+07	1.61 y	36:22	1.26	96.3		2.50				96.3
13C-PCB-101	2.86e+07	1.61 y	34:42	-	254		2.50				
PCB-123	2.05e+07	1.58 y	38:26	1.12	52.2		2.50	-	-	*	-
13C-PCB-123	3.50e+07	1.61 y	38:24	1.36	93.4		2.50				93.4
PCB-118	2.62e+07	1.58 y	38:36	1.16	50.5		2.50	-	-	*	-
13C-PCB-118	4.48e+07	1.61 y	38:34	1.42	114		2.50				114
PCB-114	2.32e+07	1.55 y	39:14	1.13	50.9		2.50	-	-	*	-
13C-PCB-114	4.05e+07	1.58 y	39:12	1.38	106		2.50				106
PCB-105	2.27e+07	1.65 y	40:03	1.11	52.3		2.50	-	-	*	-
13C-PCB-105	3.92e+07	1.59 y	40:01	1.38	103		2.50				103
PCB-126	2.07e+07	1.60 y	42:11	1.11	50.8		2.50	-	-	*	-
13C-PCB-126	3.65e+07	1.64 y	42:10	1.29	103		2.50				103
PCB-167	1.75e+07	1.27 y	43:32	1.05	52.0		2.50	-	-	*	-
13C-PCB-167	3.20e+07	1.26 y	43:30	1.23	94.3		2.50				94.3
PCB-156	1.69e+07	1.27 y	44:45	1.08	52.3		2.50	-	-	*	-
13C-PCB-156	2.99e+07	1.28 y	44:45	1.19	91.2		2.50				91.2
PCB-157	1.86e+07	1.27 y	45:01	1.06	51.6		2.50	-	-	*	-
13C-PCB-157	3.42e+07	1.27 y	44:59	1.24	100		2.50				100
PCB-169	1.74e+07	1.27 y	46:53	1.06	51.8		2.50	-	-	*	-
13C-PCB-169	3.16e+07	1.26 y	46:51	1.15	99.9		2.50				99.9
PCB-188	1.63e+07	1.06 y	39:47	1.14	47.0		2.50	-	-	*	-
13C-PCB-188	3.03e+07	1.09 y	39:45	1.13	97.7		2.50				97.7
PCB-189	1.35e+07	1.08 y	48:32	1.12	50.9		2.50	-	-	*	-
13C-PCB-189	2.37e+07	1.08 y	48:30	0.94	91.0		2.50				91.0
PCB-202	1.11e+07	0.90 y	44:53	1.09	49.3		2.50	-	-	*	-
13C-PCB-202	2.06e+07	0.93 y	44:51	0.77	96.8		2.50				96.8
13C-PCB-178	2.07e+07	1.11 y	42:25	0.76	98.6		2.50				98.6
13C-PCB-138	2.76e+07	1.26 y	41:39	-	252		2.50				

FAL ID: ST080118Z1 Filename: 01AUG18Z Sam:1 Acquired: 1-AUG-18 09:52:43 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 31JUL18Z GC Column: DB1MS Amount: 1.000

PCB-205	1.97e+07	0.92	y	50:10	1.04	53.5	2.50	-	-	*	-
13C-PCB-205	3.54e+07	0.91	y	50:08	1.32	100	2.50				100
PCB-208	1.56e+07	1.36	y	49:12	0.96	51.5	2.50	-	-	*	-
13C-PCB-208	3.15e+07	0.78	y	49:11	1.33	88.5	2.50				88.5
PCB-206	1.25e+07	1.35	y	51:20	0.97	50.1	2.50	-	-	*	-
13C-PCB-206	2.56e+07	0.79	y	51:19	0.94	102	2.50				102
PCB-209	1.56e+07	1.19	y	52:32	1.17	49.4	2.50	-	-	*	-
13C-PCB-209	2.69e+07	1.21	y	52:31	1.04	96.3	2.50				96.3
13C-PCB-194	2.68e+07	0.92	y	49:53	-	270	2.50				

Analyst: _____ Date: 8/1/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:01AUG18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

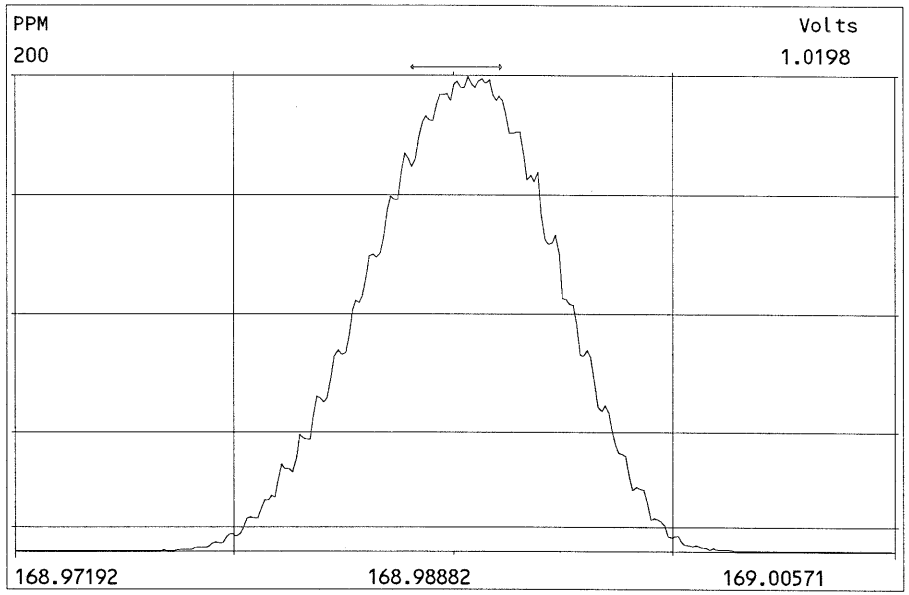
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
01AUG18Z	1	ST080118Z1	1668 CS3 170805A	1-AUG-18 09:52:43	ST080118Z1	ST080118Z2	BS
01AUG18Z	2	SS080118Z1	Daily 209 180725A	1-AUG-18 10:51:03	ST080118Z1	ST080118Z2	BS
01AUG18Z	3	04593-001-0001-OPR	OPR	1-AUG-18 11:49:25	ST080118Z1	ST080118Z2	BS
01AUG18Z	4	04593-001-0001-MB	Method Blank	1-AUG-18 12:48:11	ST080118Z1	ST080118Z2	BS
01AUG18Z	5	11708-001-0001-SA	Effluent (E002) 10093	1-AUG-18 13:46:57	ST080118Z1	ST080118Z2	BS
01AUG18Z	6	11719-016-0001-SA	LDW-Y1-SU-ENR+AC-CA-CORE	1-AUG-18 14:45:18	ST080118Z1	ST080118Z2	BS
01AUG18Z	7	11719-017-0001-SA	LDW-Y1-SU-ENR+AC-CB-CORE	1-AUG-18 15:43:44	ST080118Z1	ST080118Z2	BS
01AUG18Z	8	11719-018-0001-SA	LDW-Y1-SU-ENR+AC-CC-CORE	1-AUG-18 16:42:30	ST080118Z1	ST080118Z2	BS
01AUG18Z	9	SB080118Z1	Solvent Blank	1-AUG-18 17:40:54	ST080118Z1	ST080118Z2	BS
01AUG18Z	10	04595-001-0001-OPR	OPR	1-AUG-18 18:39:15	ST080118Z1	ST080118Z2	BS
01AUG18Z	11	04595-001-0001-MB	Method Blank	1-AUG-18 19:37:37	ST080118Z1	ST080118Z2	BS
01AUG18Z	12	11752-001-B002-SA	RM#51175-Lot#845732 Marine Co	1-AUG-18 20:36:24	ST080118Z1	ST080118Z2	BS
01AUG18Z	13	SB080118Z2	Solvent Blank	1-AUG-18 21:34:44	ST080118Z1	ST080118Z2	BS
01AUG18Z	14	ST080118Z2	1668 CS3 170805A	1-AUG-18 22:33:31	ST080118Z1	ST080118Z2	BS

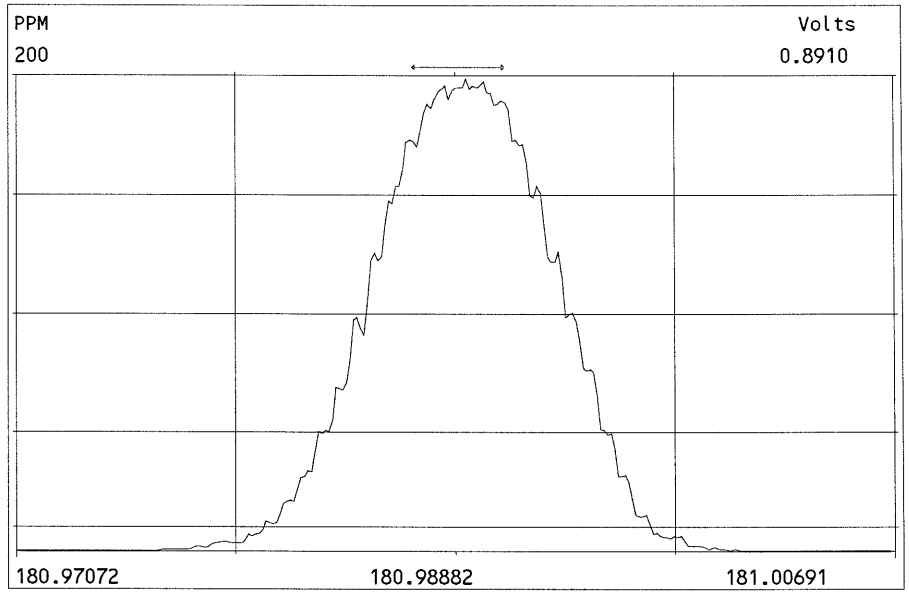
L 8/3/18

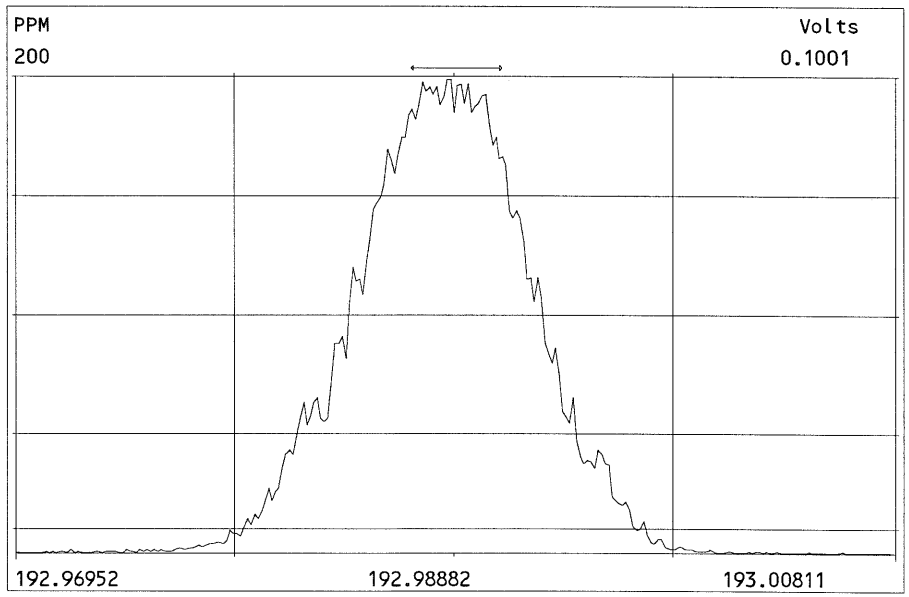
Data Backed Up:_____

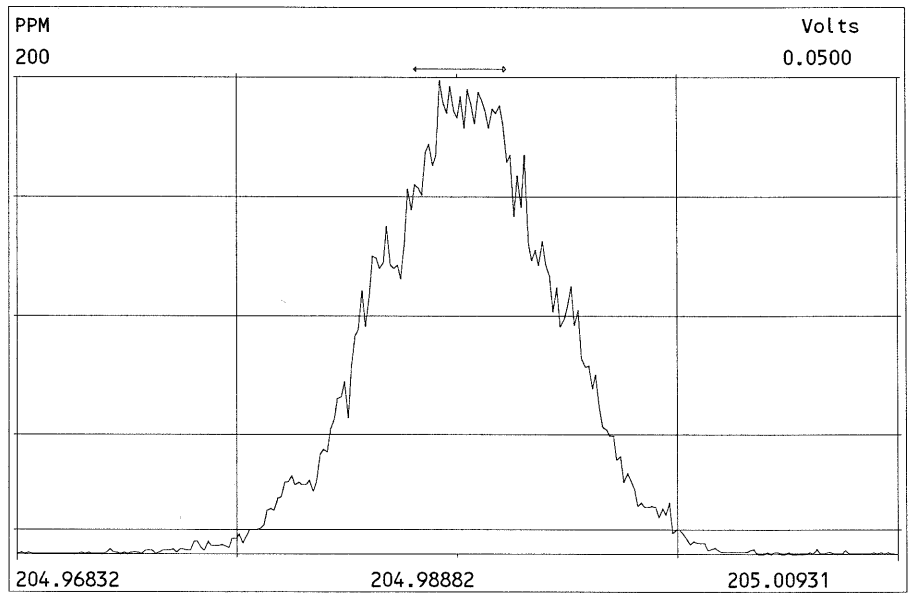
Date:_____

Peak Locate Examination: 1-AUG-2018:09:49 File:01AUG18Z
Experiment:1668PCB Function:1 Reference:PFK

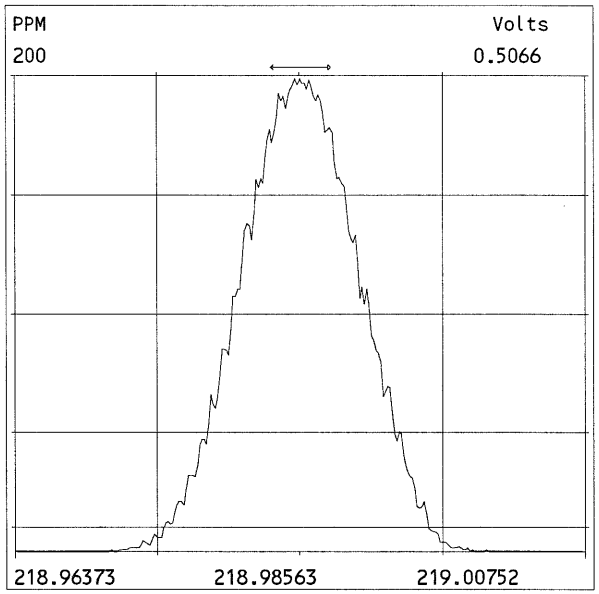


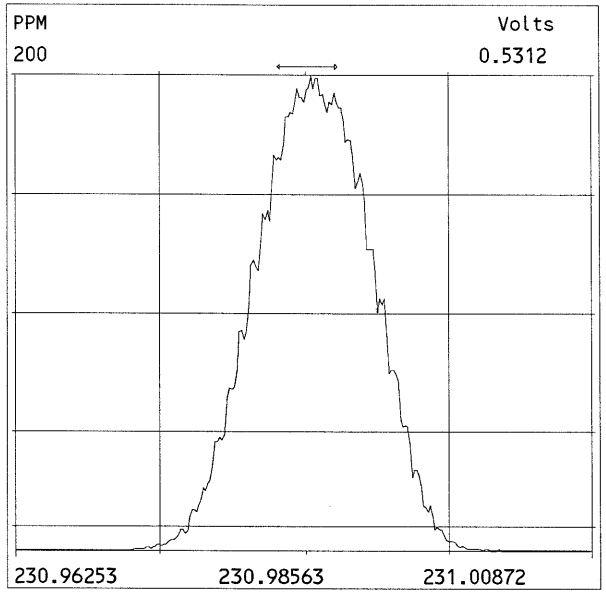


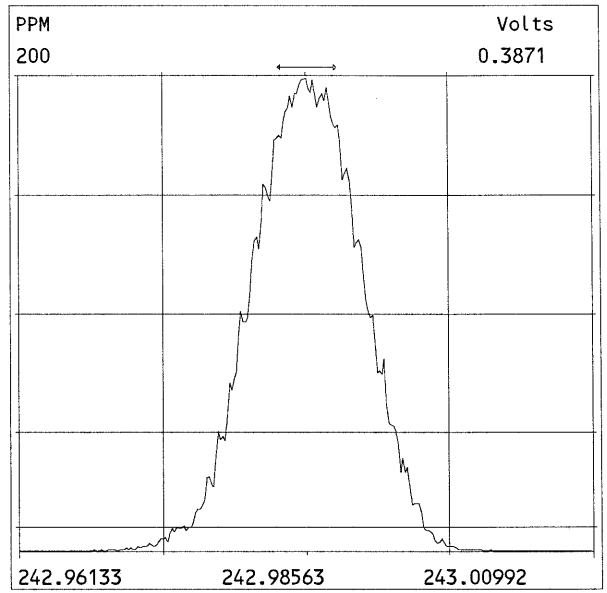


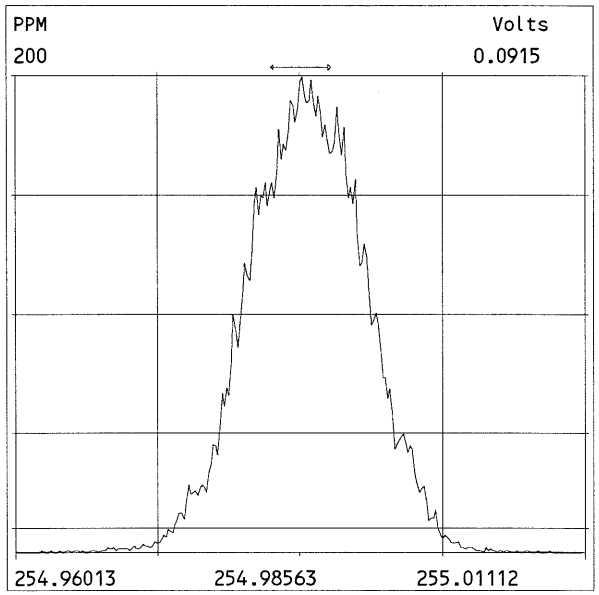


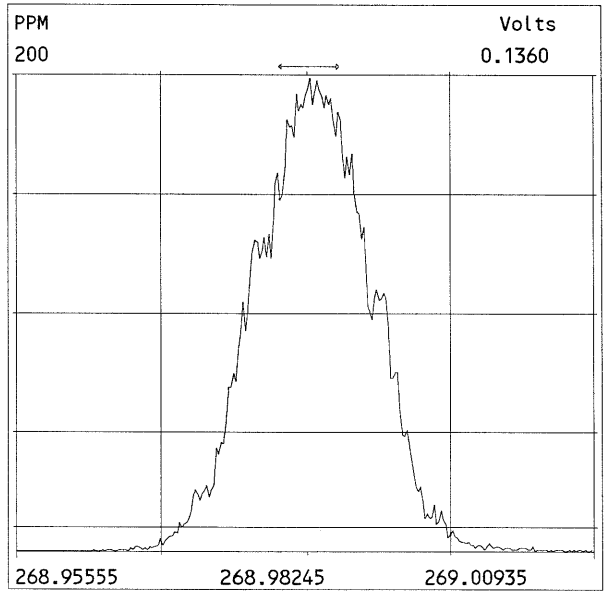
Peak Locate Examination: 1-AUG-2018:09:50 File:01AUG18Z
Experiment:1668PCB Function:2 Reference:PFK

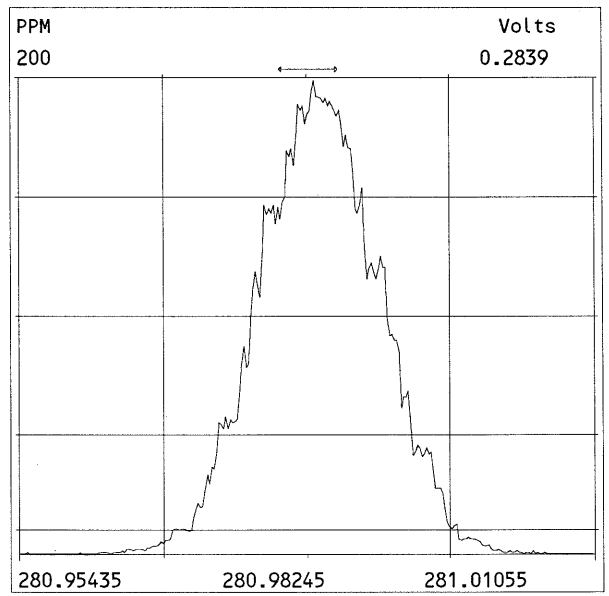




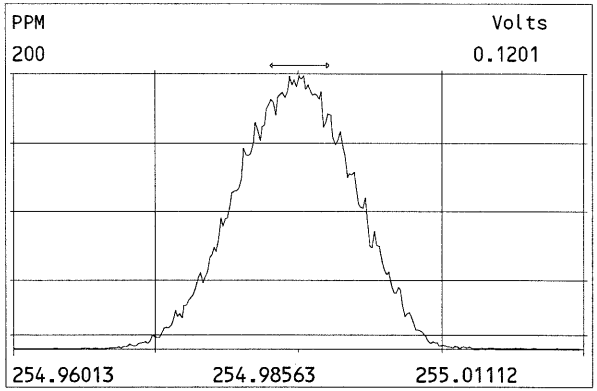


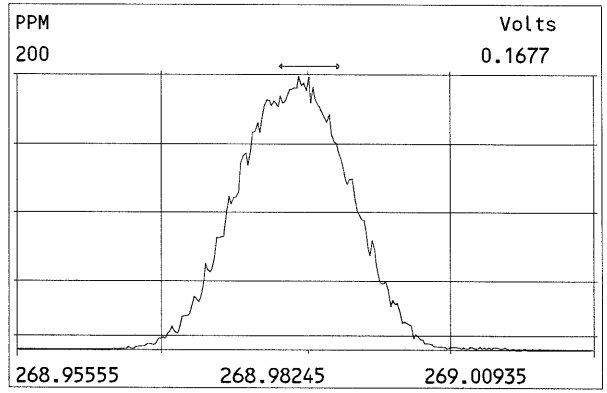


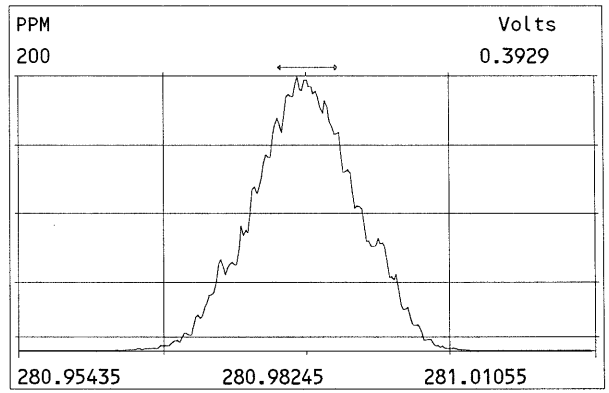


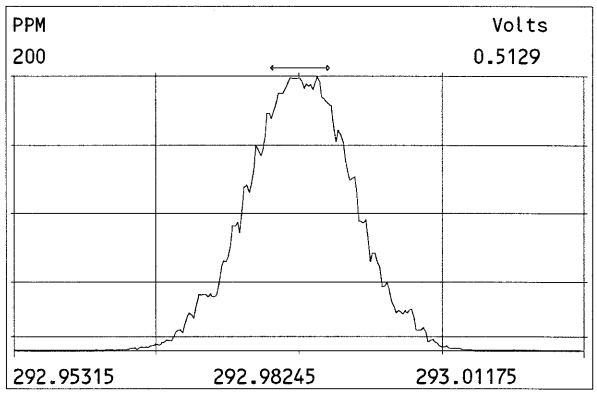


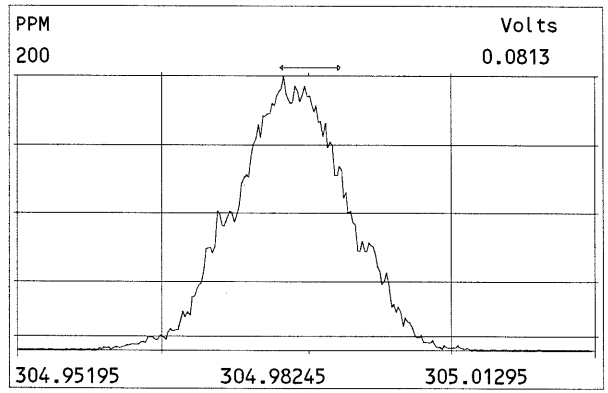
Peak Locate Examination: 1-AUG-2018:09:50 File:01AUG18Z
Experiment:1668PCB Function:3 Reference:PFK

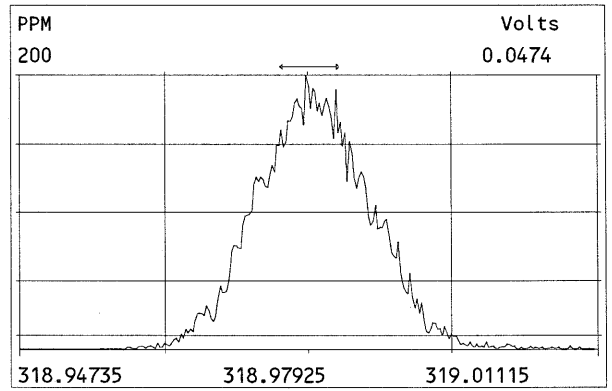


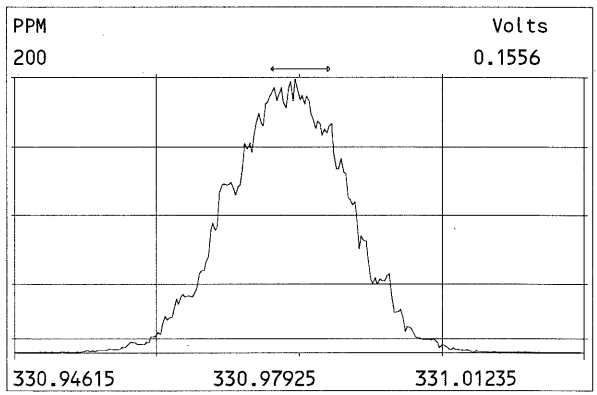


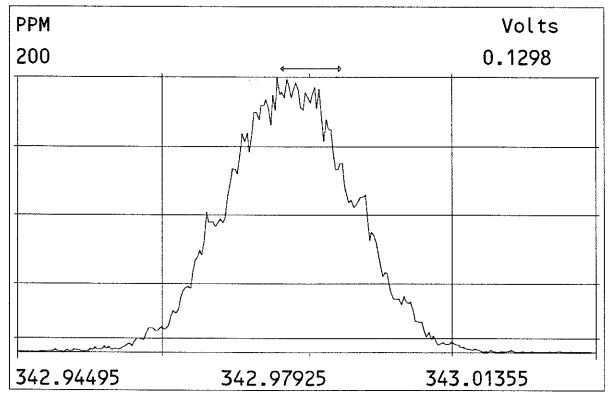




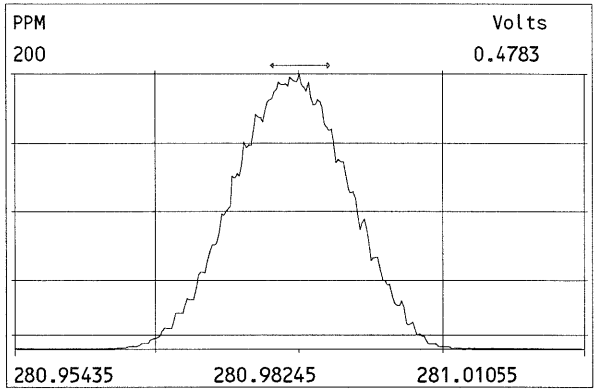


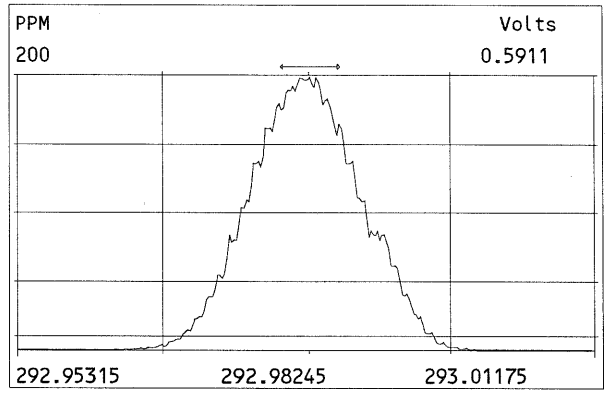


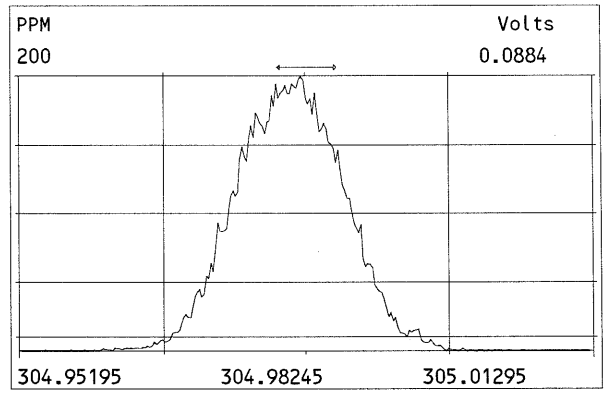


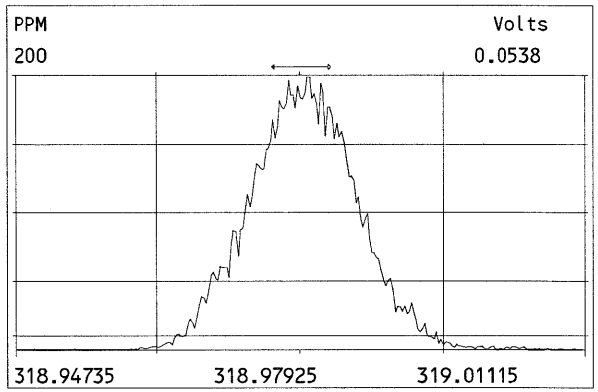


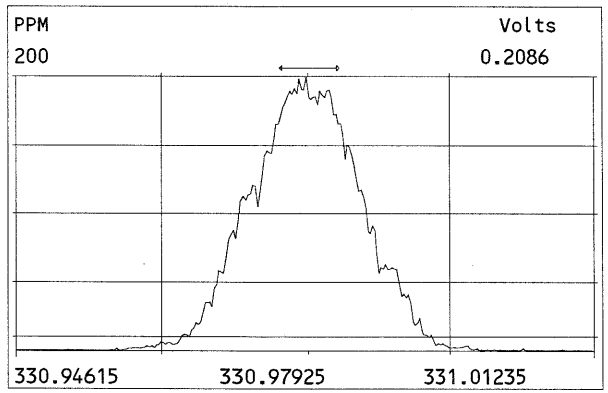
Peak Locate Examination: 1-AUG-2018:09:51 File:01AUG18Z
Experiment:1668PCB Function:4 Reference:PFK

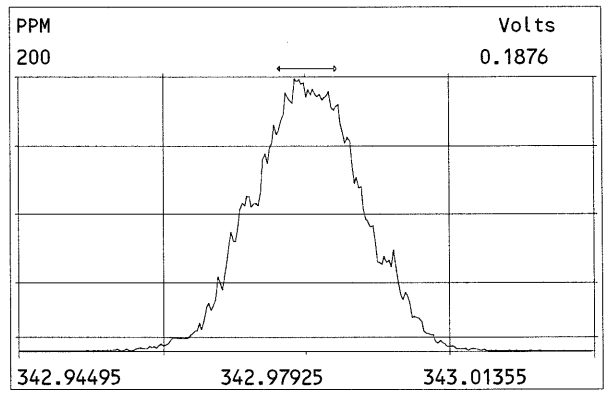


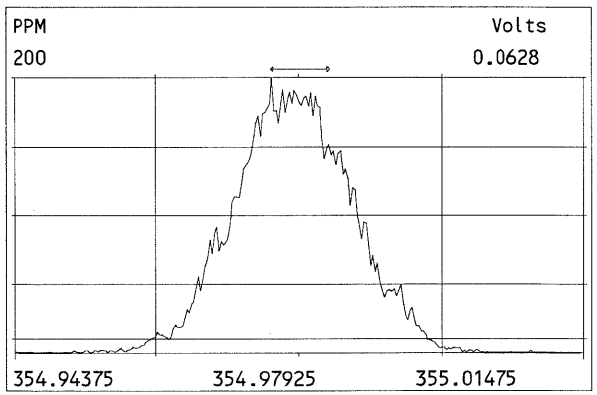


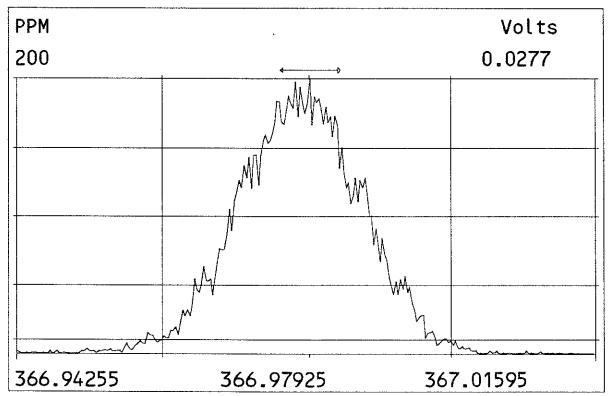


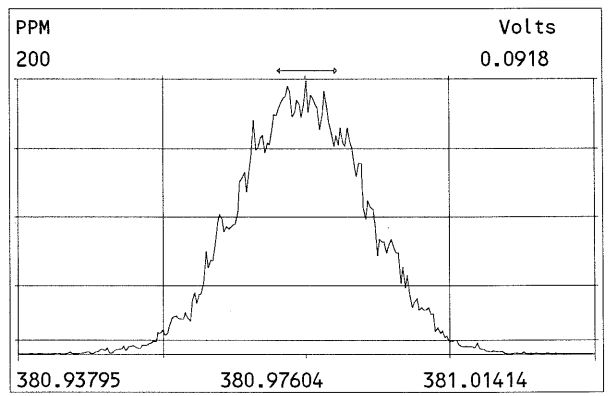




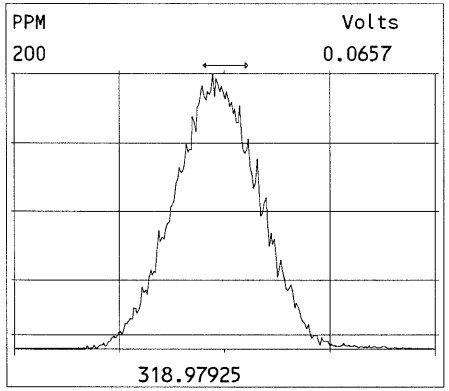


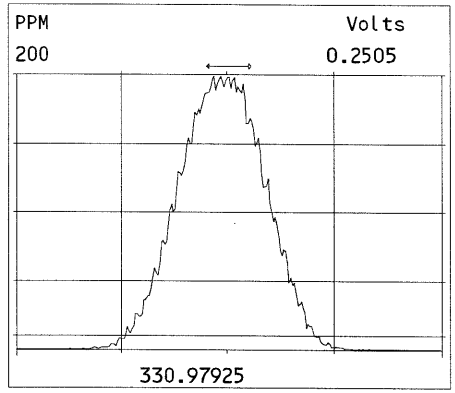


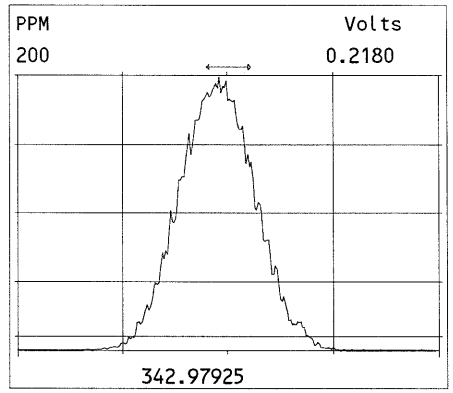


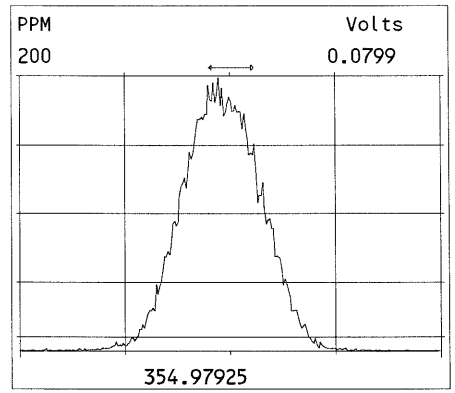


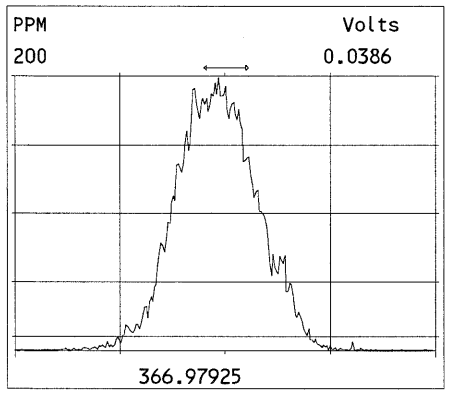
Peak Locate Examination: 1-AUG-2018:09:51 File:01AUG18Z
Experiment:1668PCB Function:5 Reference:PFK

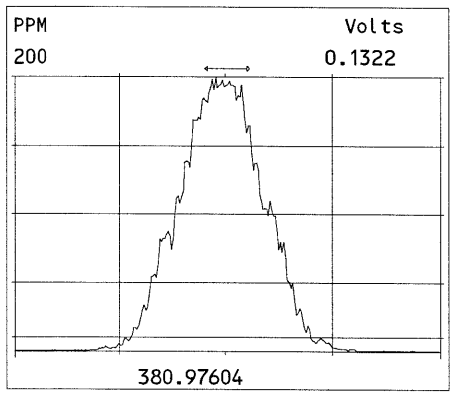


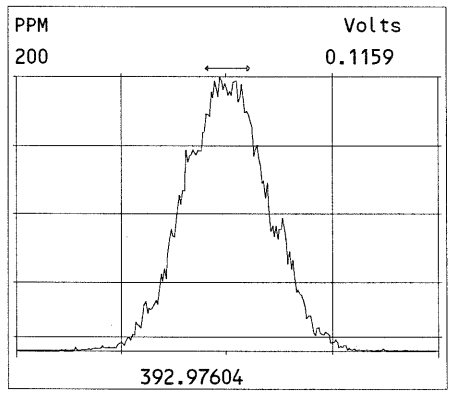


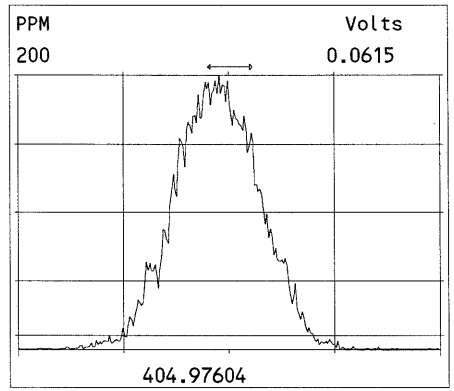


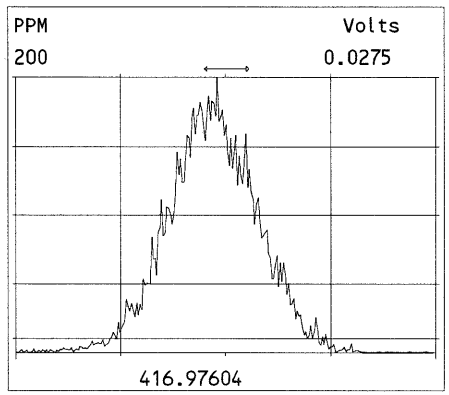


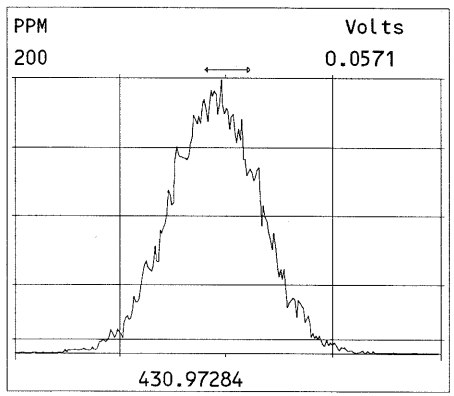


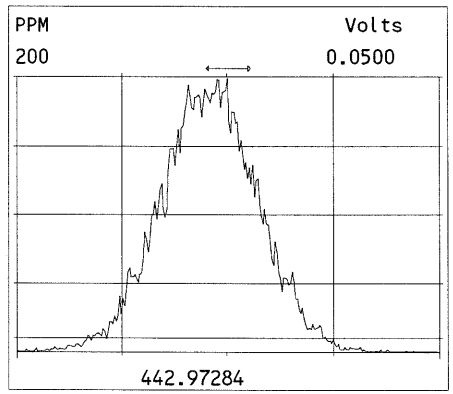




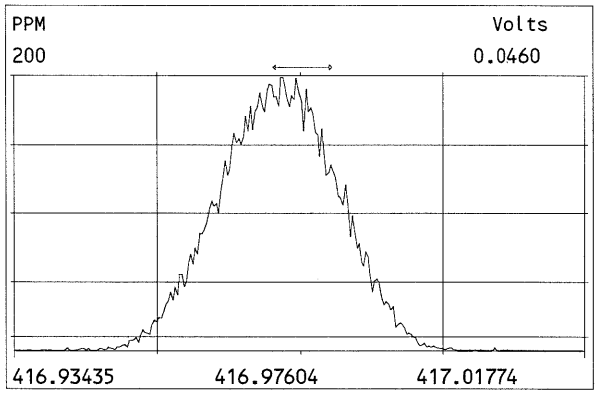


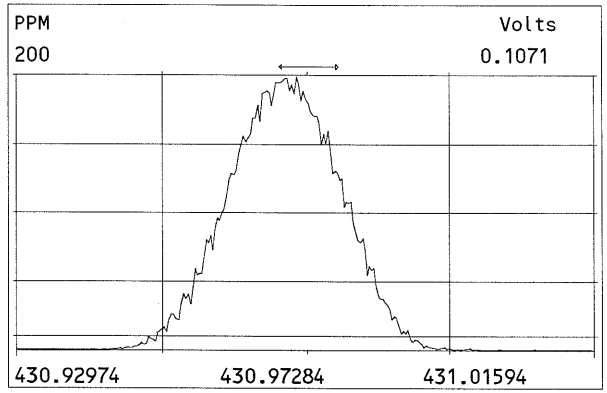


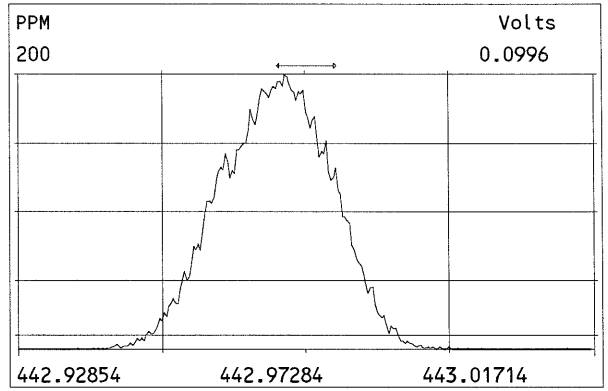


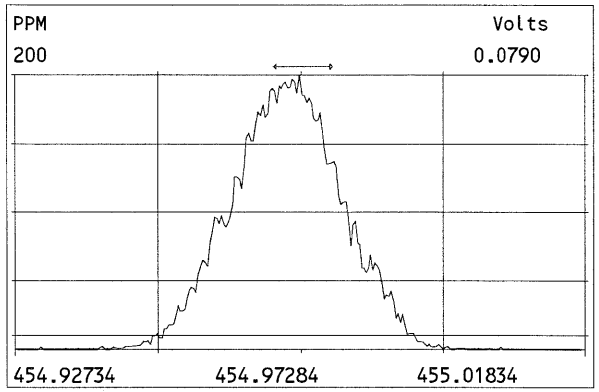


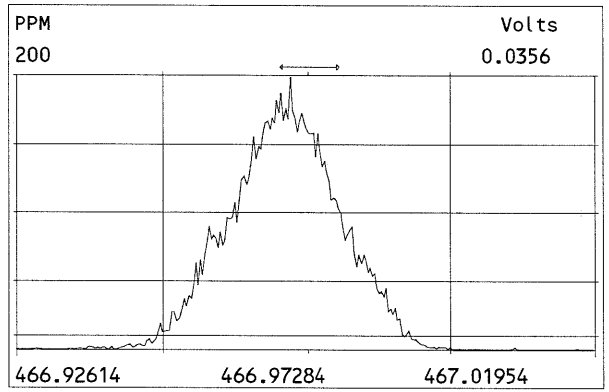
Peak Locate Examination: 1-AUG-2018:09:52 File:01AUG18Z
Experiment:1668PCB Function:6 Reference:PFK

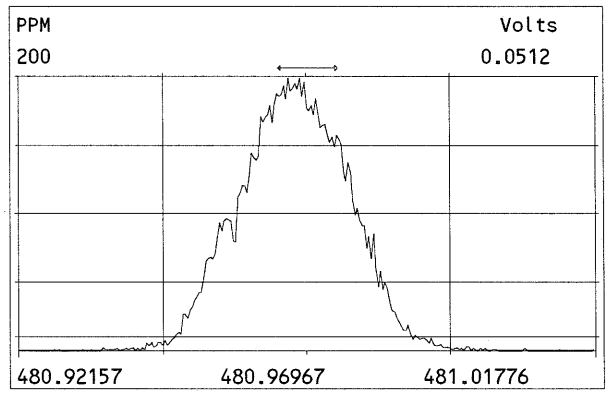


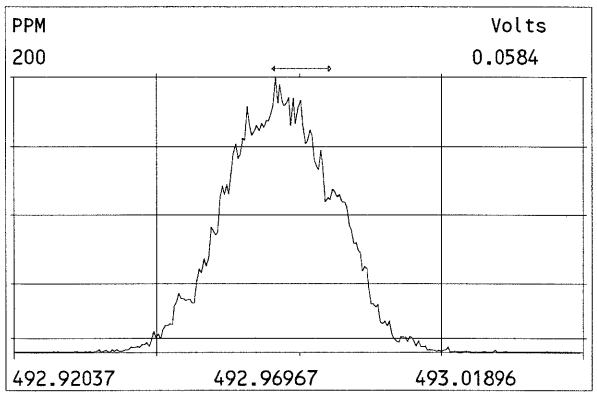


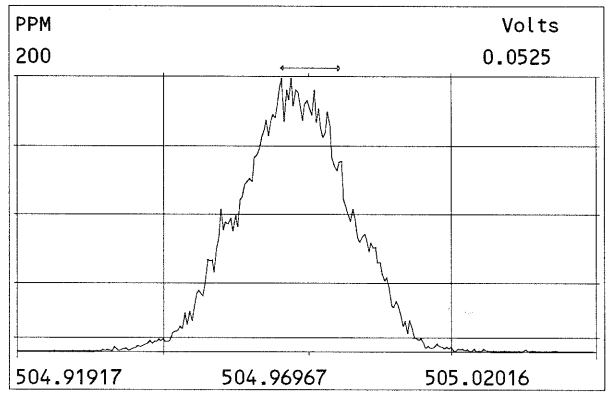


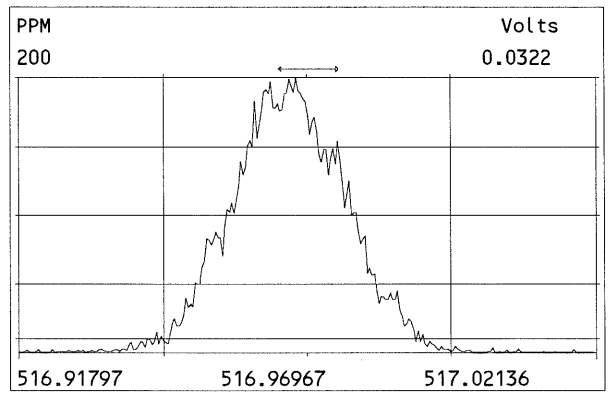




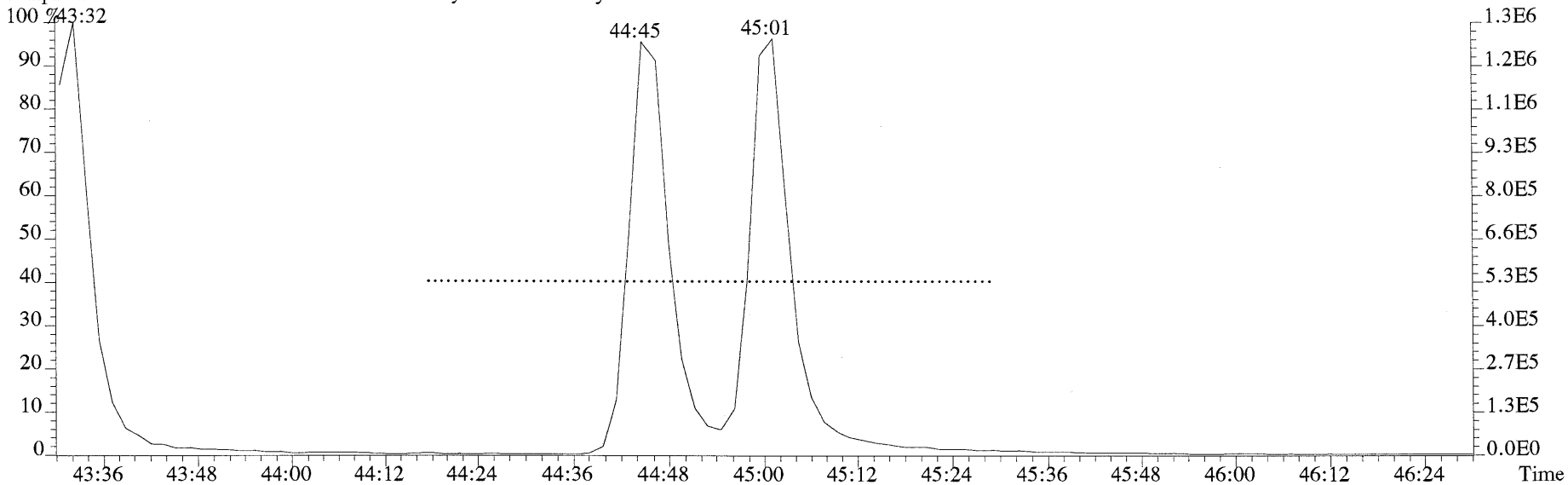




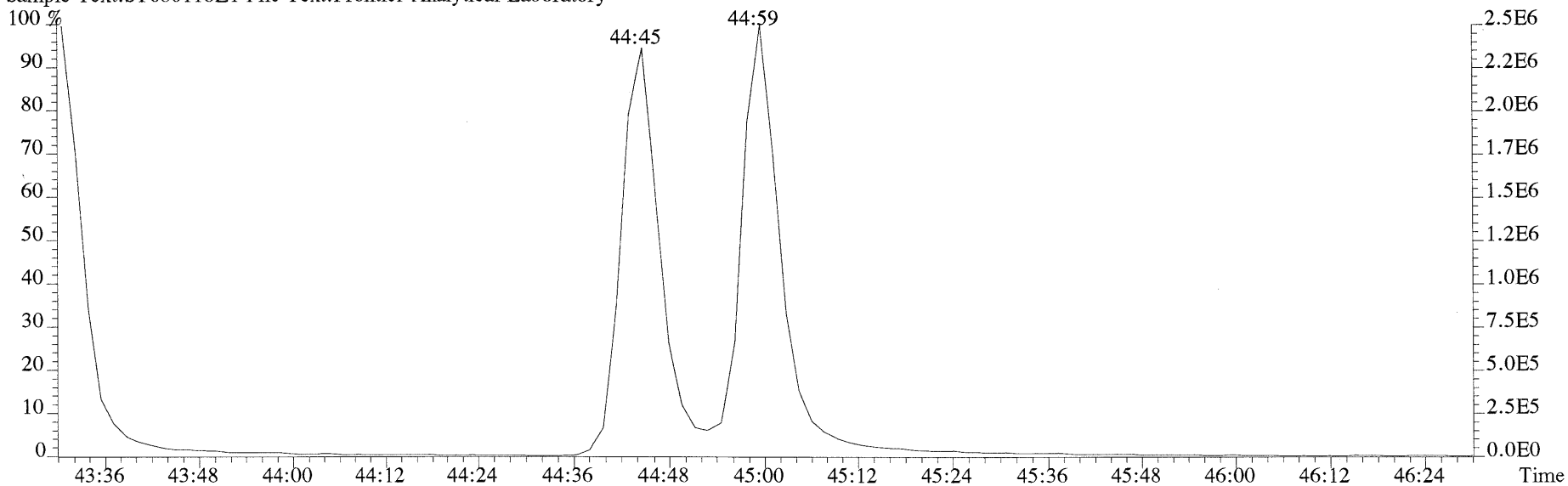




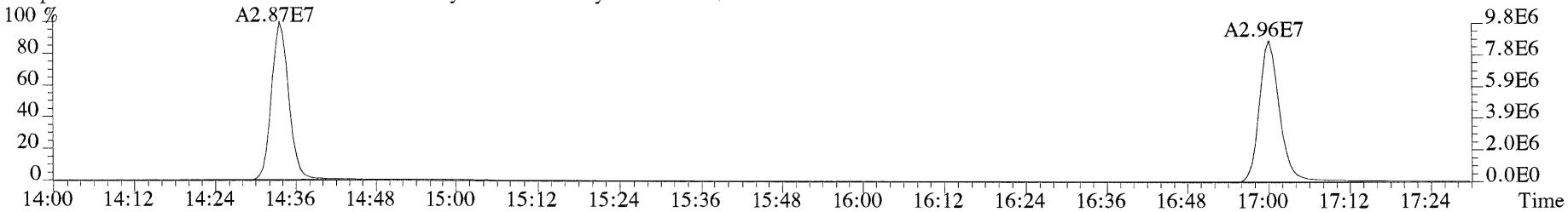
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



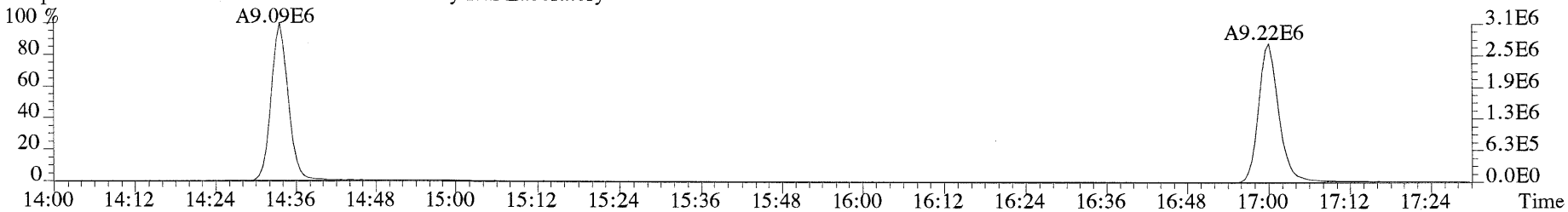
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



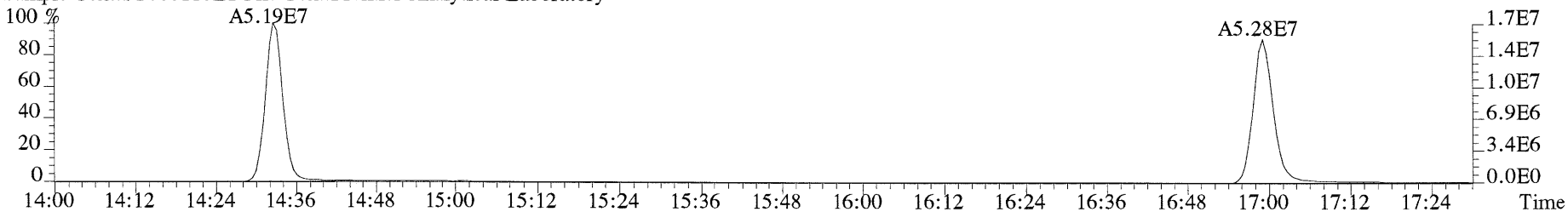
File:01AUG18Z #1-784 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



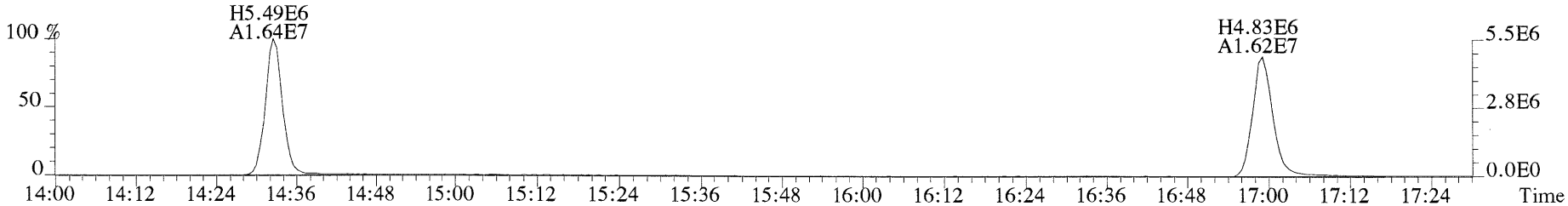
File:01AUG18Z #1-784 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



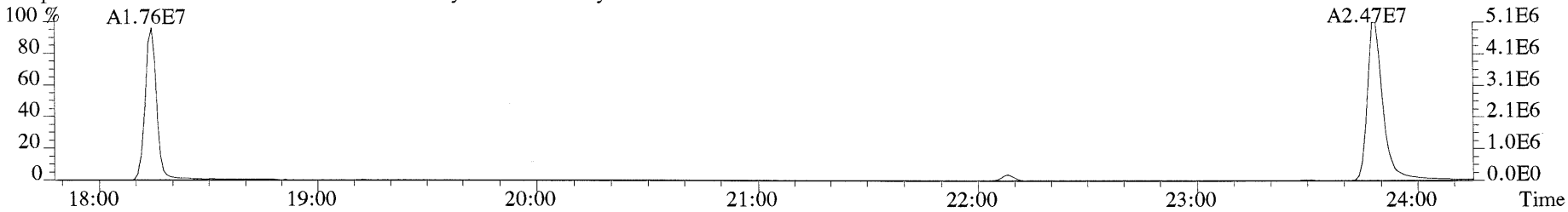
File:01AUG18Z #1-784 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



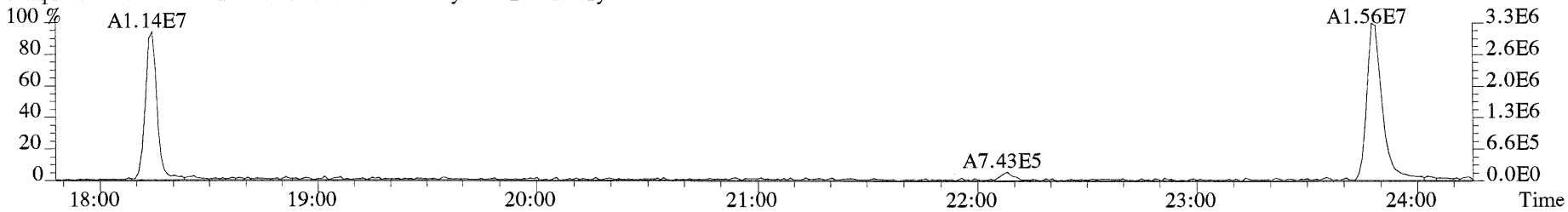
File:01AUG18Z #1-784 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



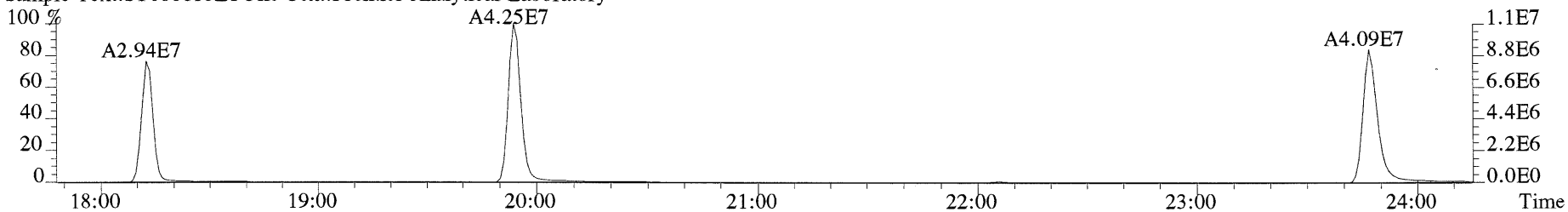
File:01AUG18Z #1-520 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



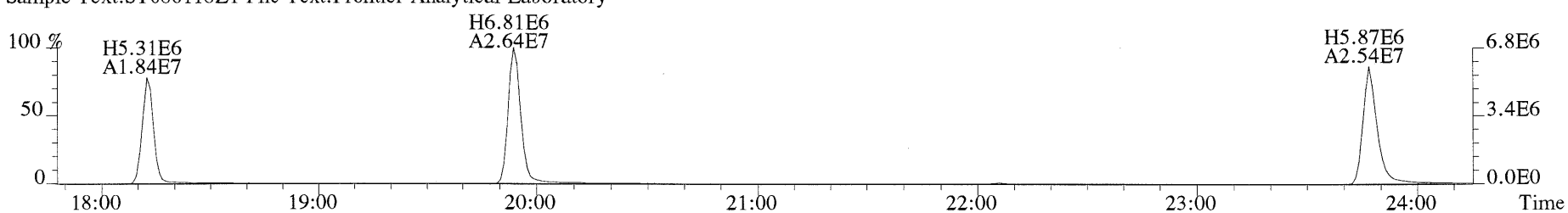
File:01AUG18Z #1-520 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



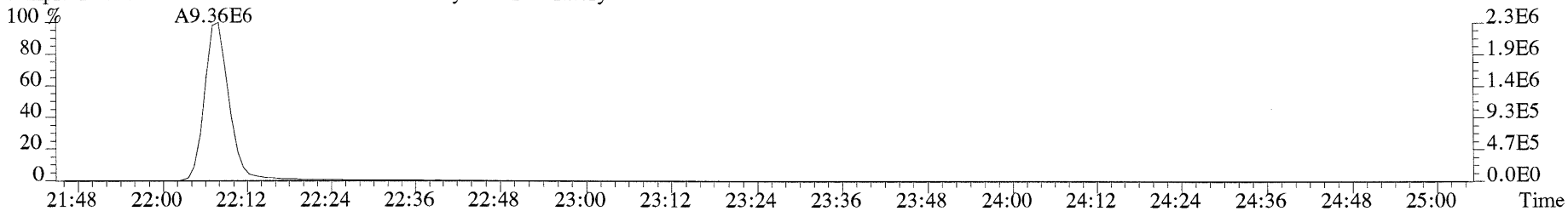
File:01AUG18Z #1-520 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



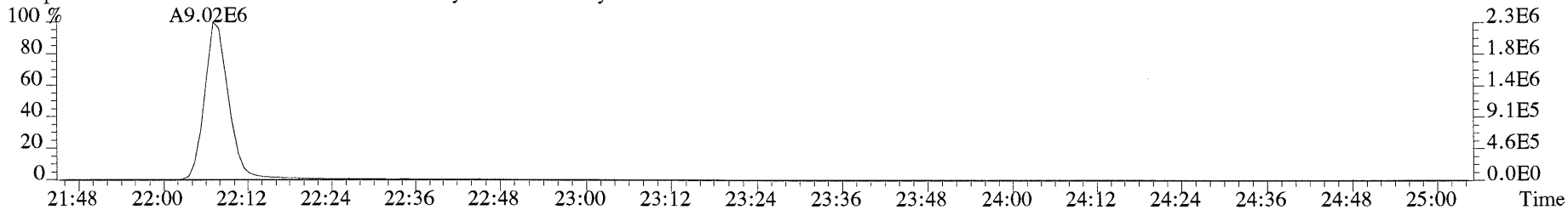
File:01AUG18Z #1-520 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



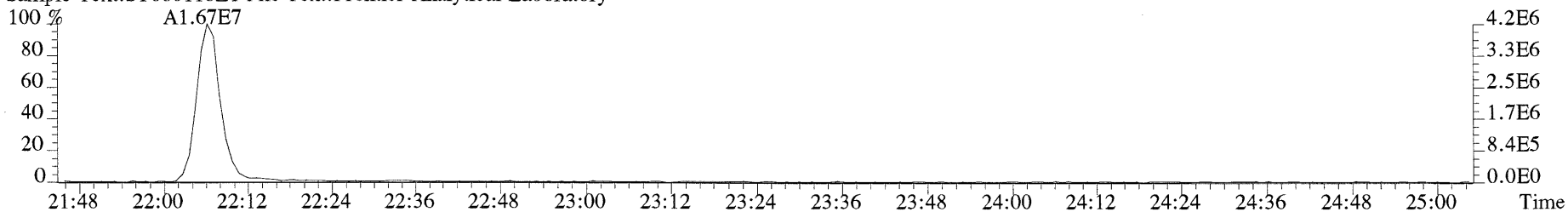
File:01AUG18Z #1-520 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



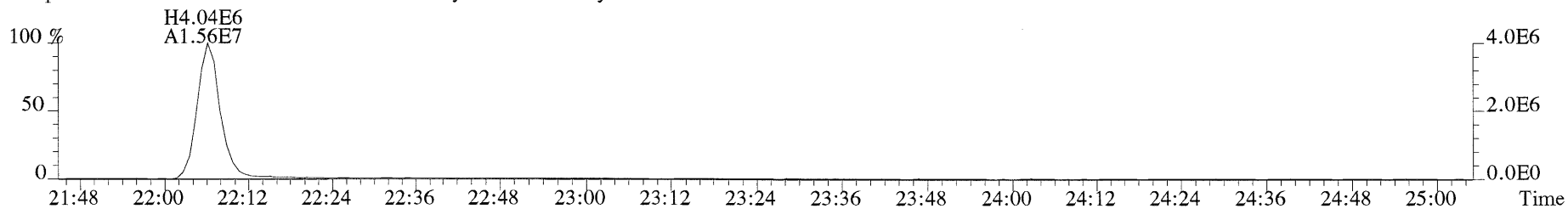
File:01AUG18Z #1-520 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



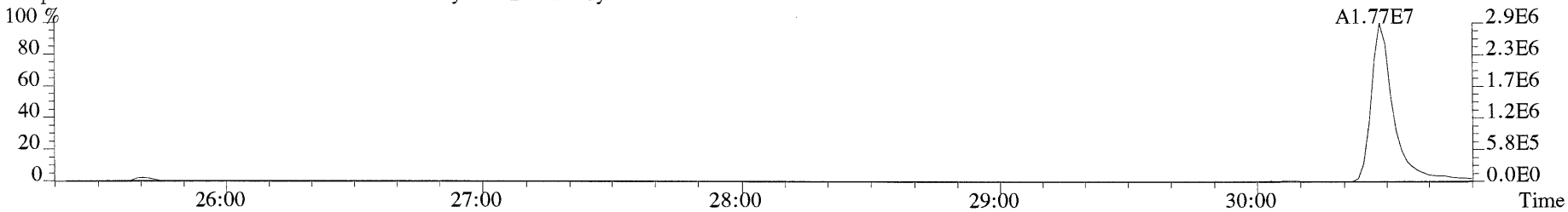
File:01AUG18Z #1-520 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



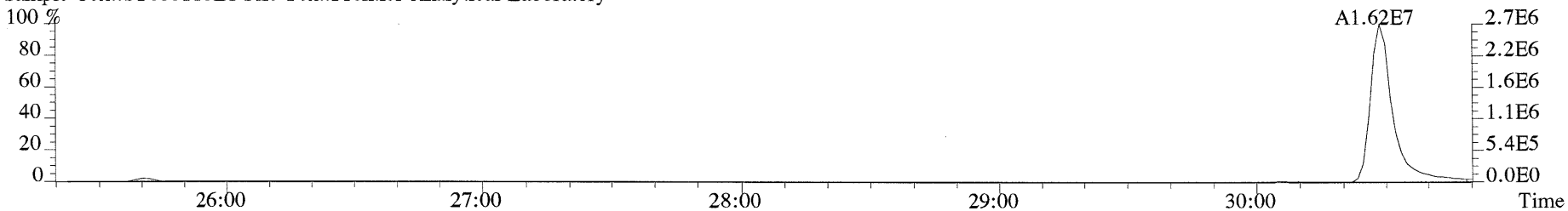
File:01AUG18Z #1-520 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



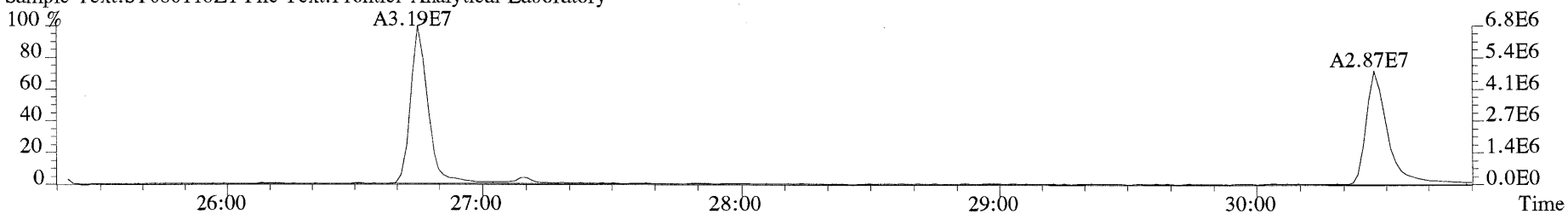
File:01AUG18Z #1-401 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



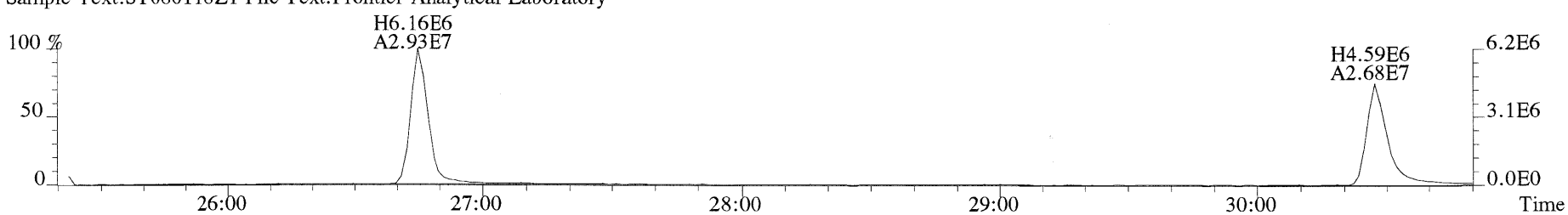
File:01AUG18Z #1-401 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



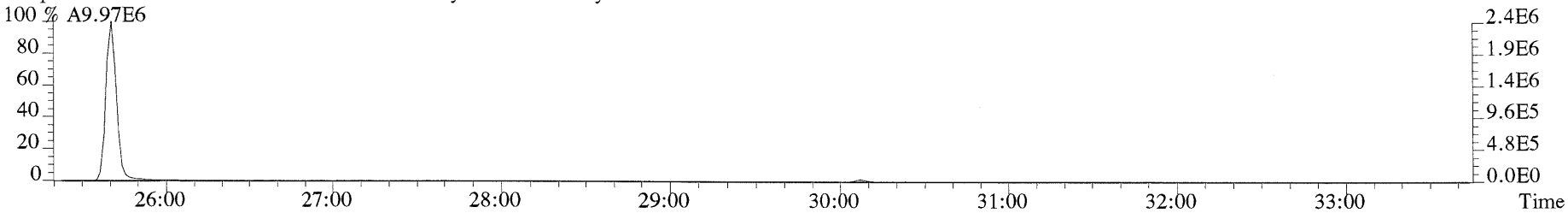
File:01AUG18Z #1-401 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



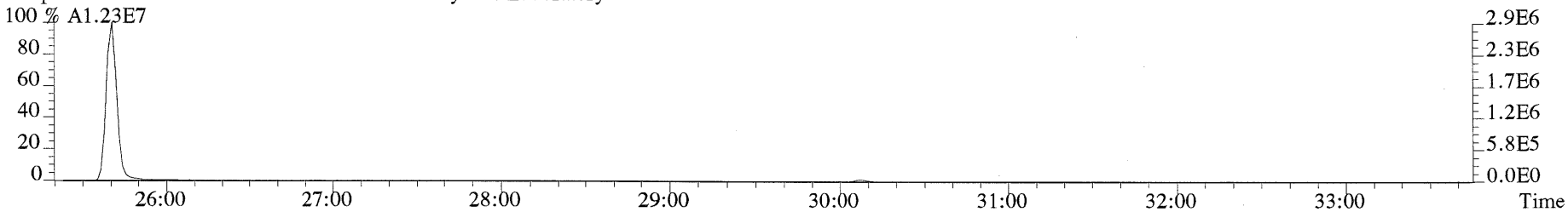
File:01AUG18Z #1-401 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



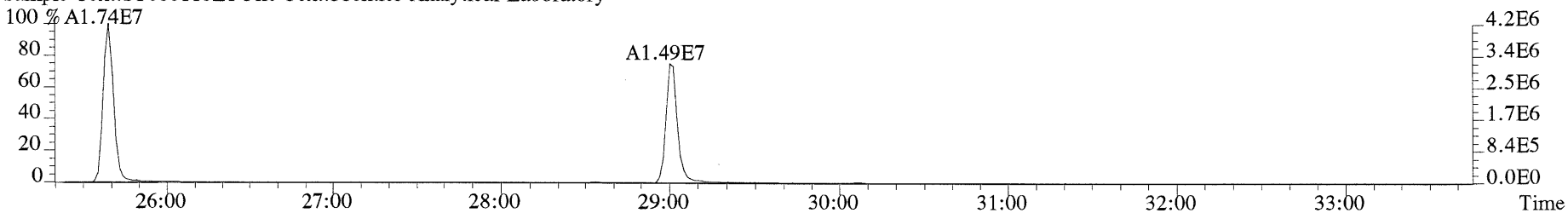
File:01AUG18Z #1-401 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



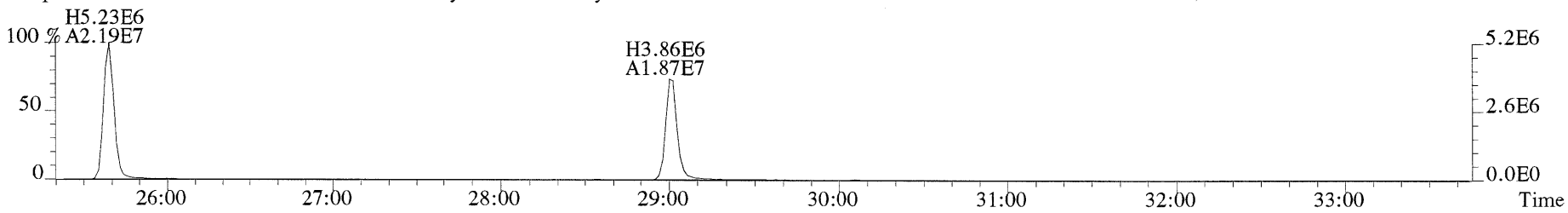
File:01AUG18Z #1-401 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



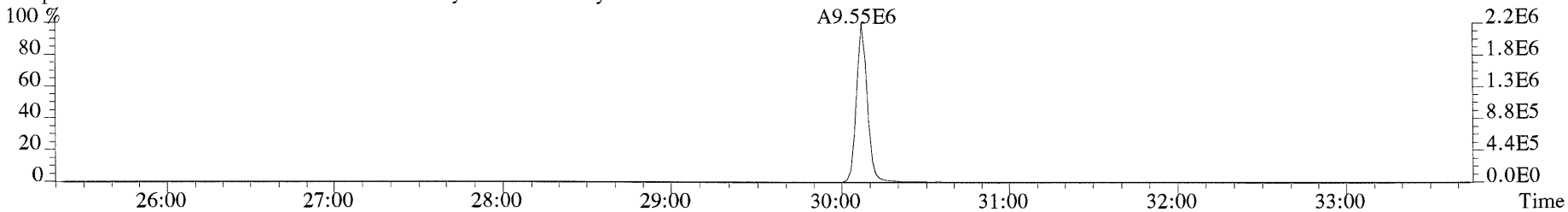
File:01AUG18Z #1-401 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



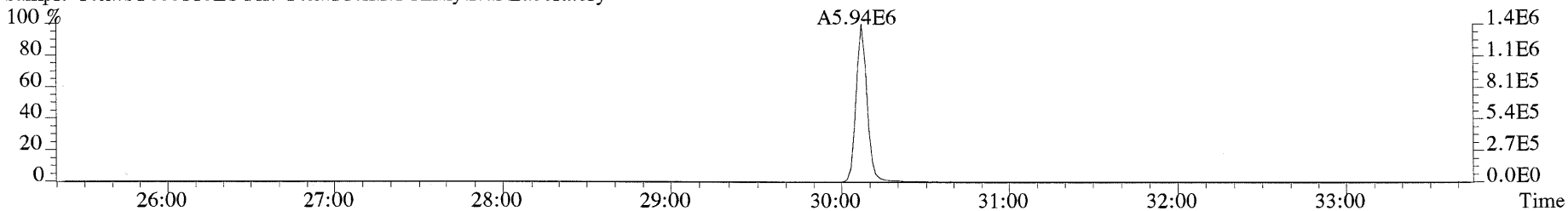
File:01AUG18Z #1-401 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



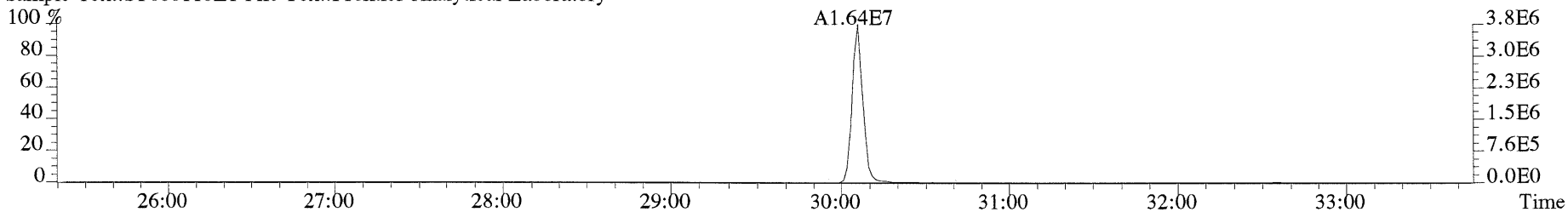
File:01AUG18Z #1-401 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



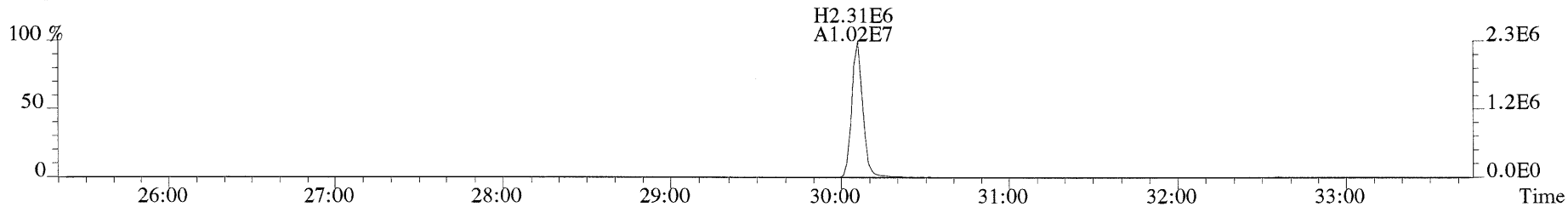
File:01AUG18Z #1-401 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



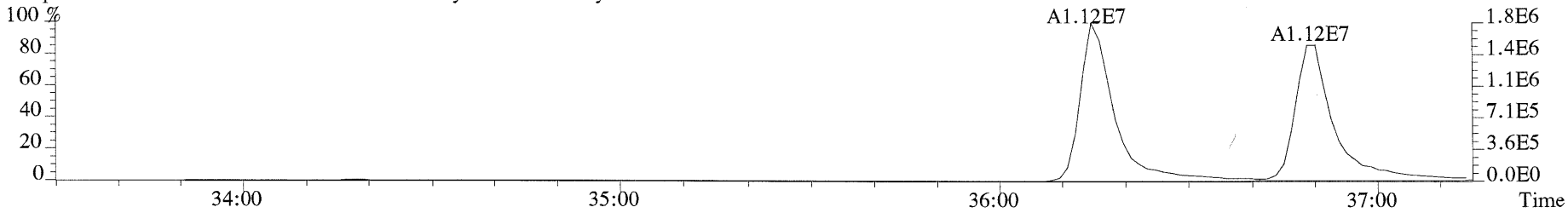
File:01AUG18Z #1-401 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



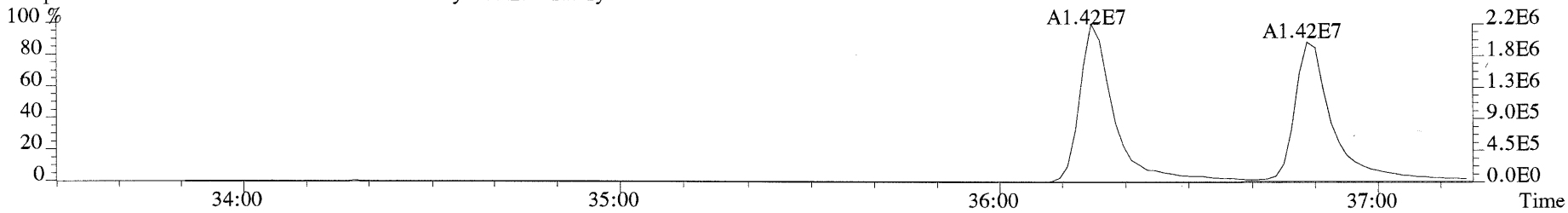
File:01AUG18Z #1-401 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



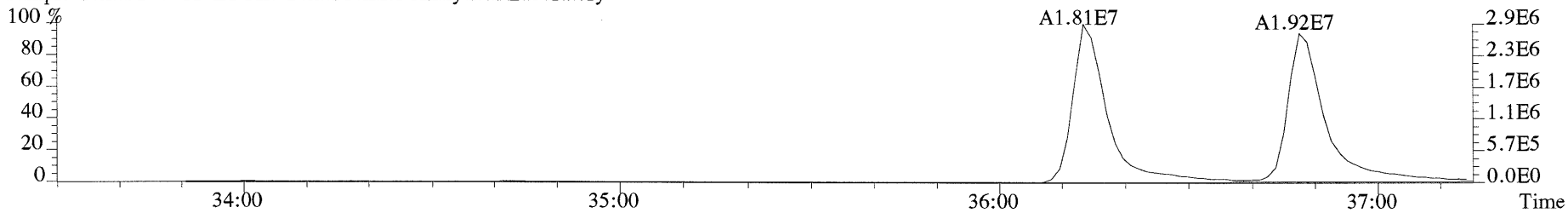
File:01AUG18Z #1-183 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



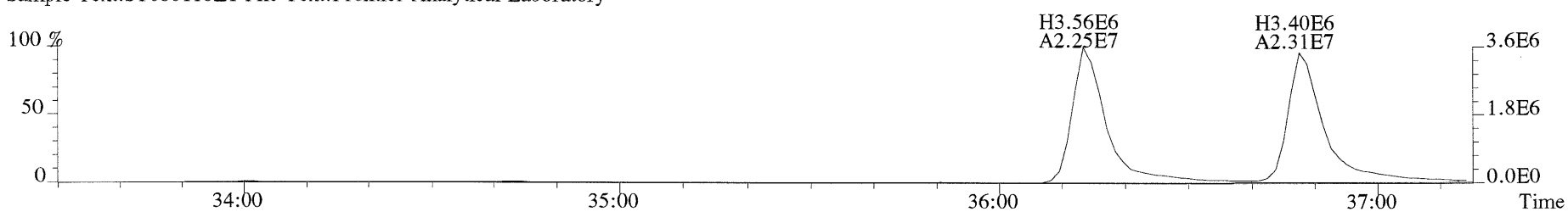
File:01AUG18Z #1-183 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



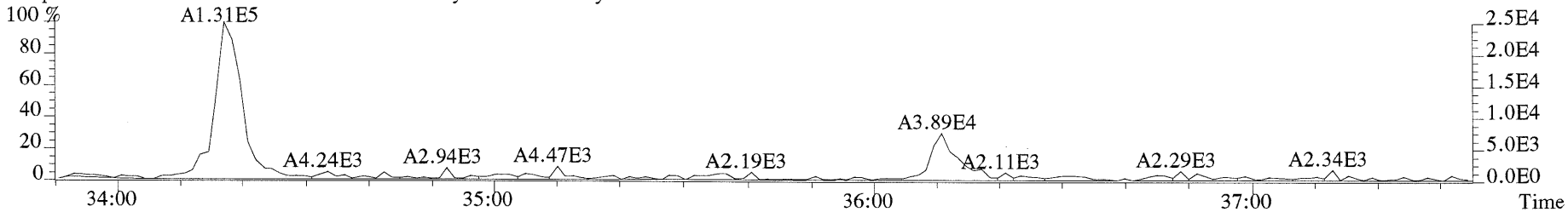
File:01AUG18Z #1-183 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



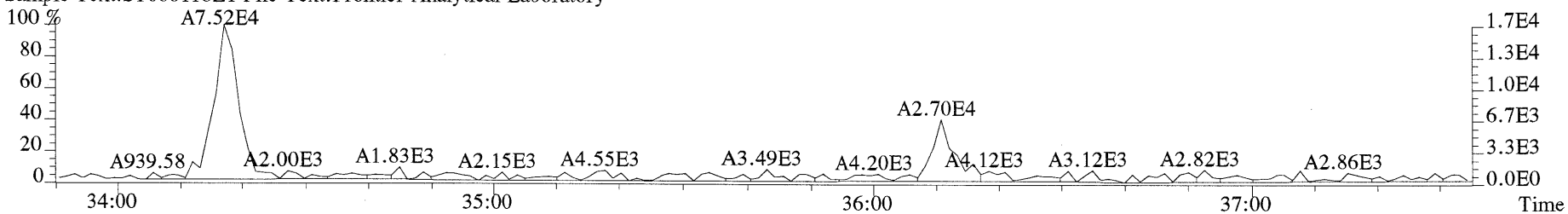
File:01AUG18Z #1-183 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



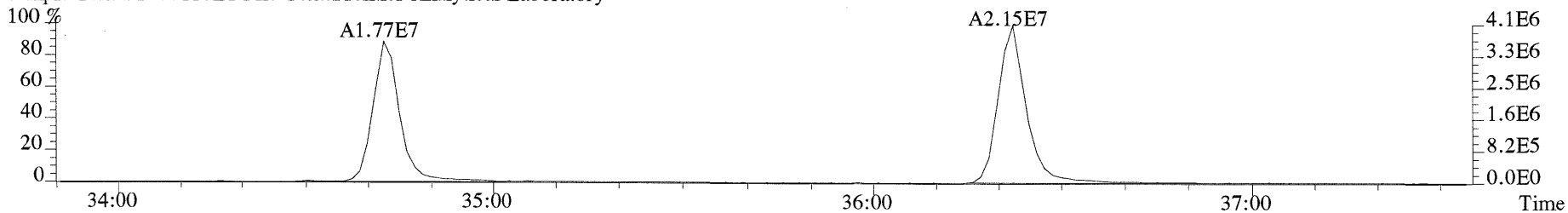
File:01AUG18Z #1-183 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



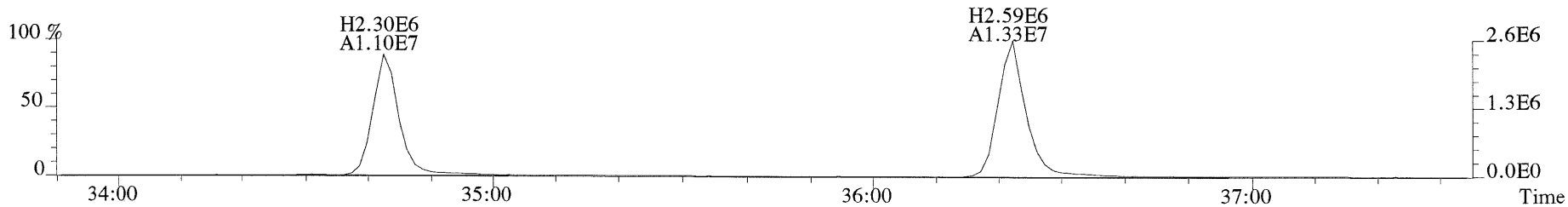
File:01AUG18Z #1-183 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



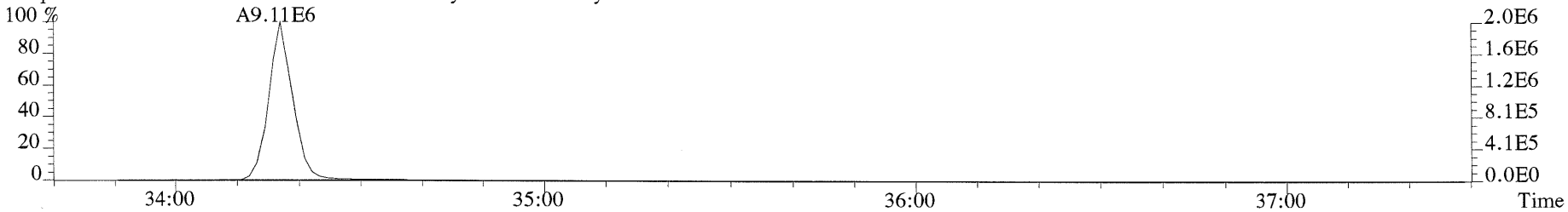
File:01AUG18Z #1-183 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



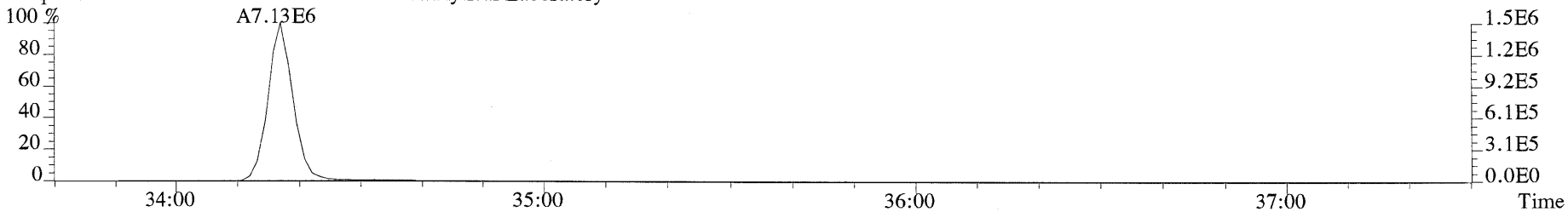
File:01AUG18Z #1-183 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



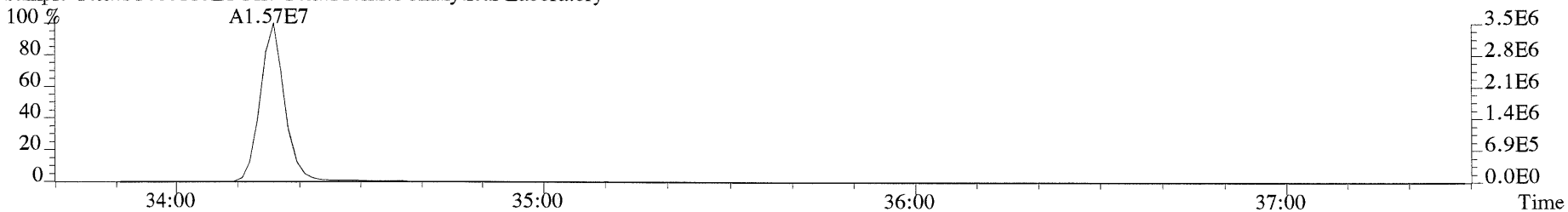
File:01AUG18Z #1-183 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



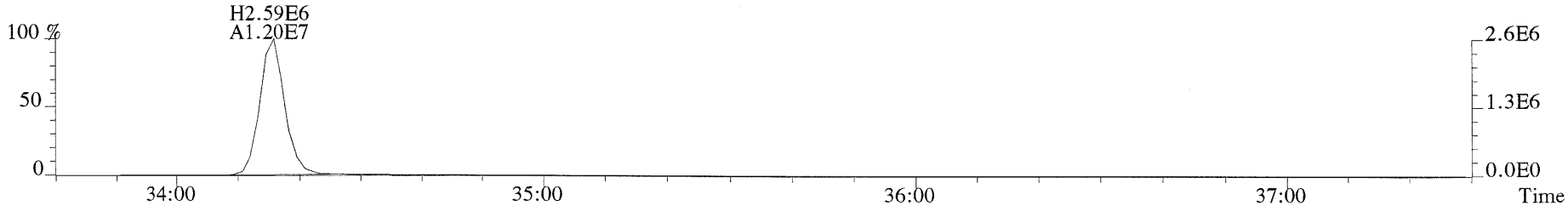
File:01AUG18Z #1-183 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



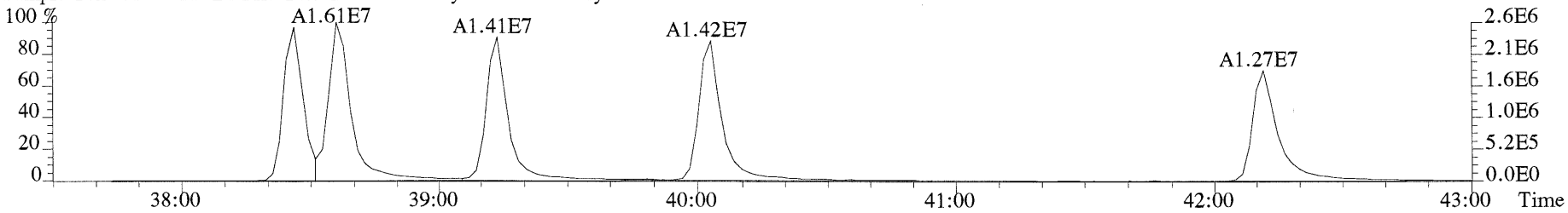
File:01AUG18Z #1-183 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



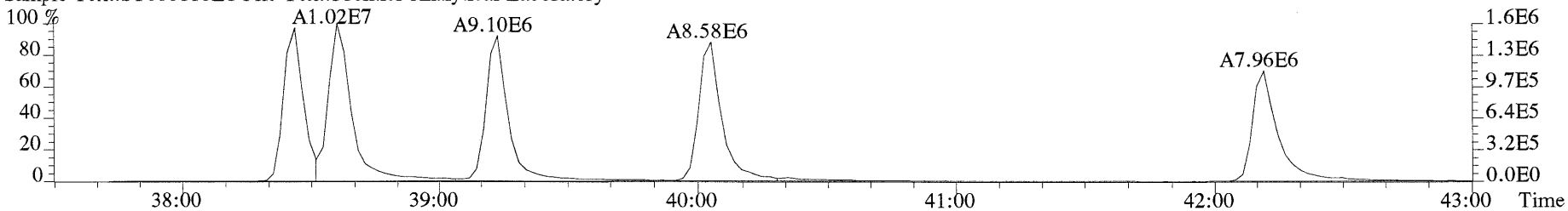
File:01AUG18Z #1-183 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



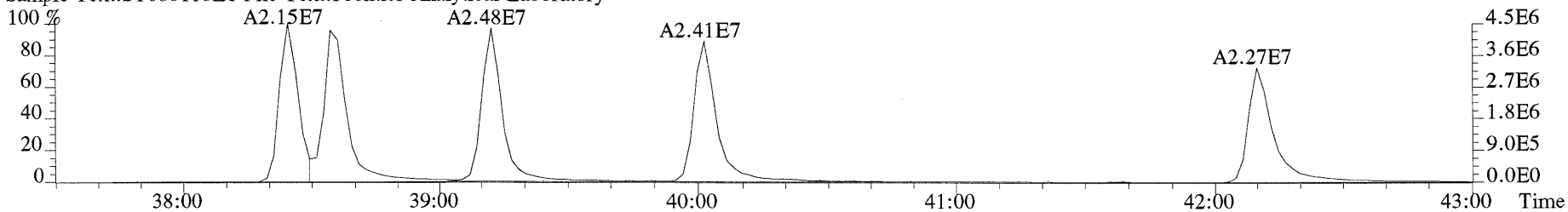
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



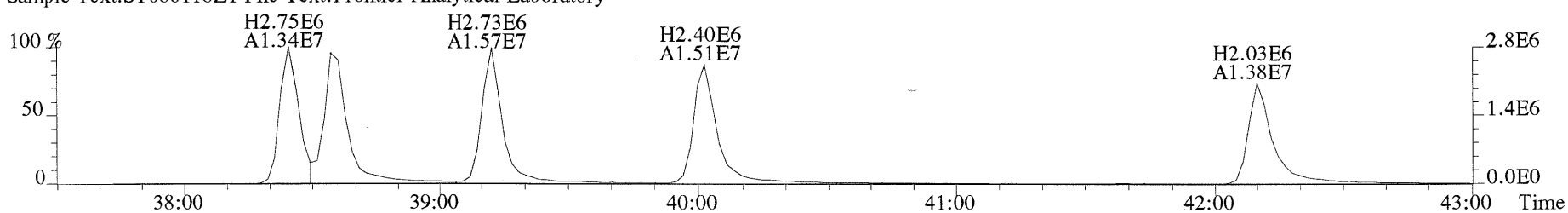
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



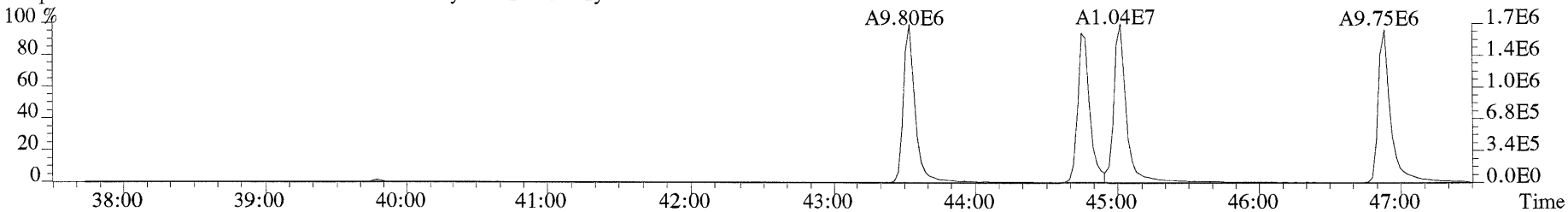
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



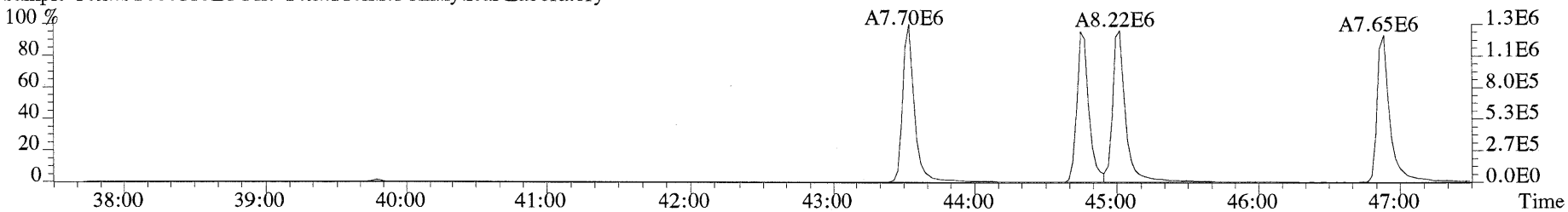
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



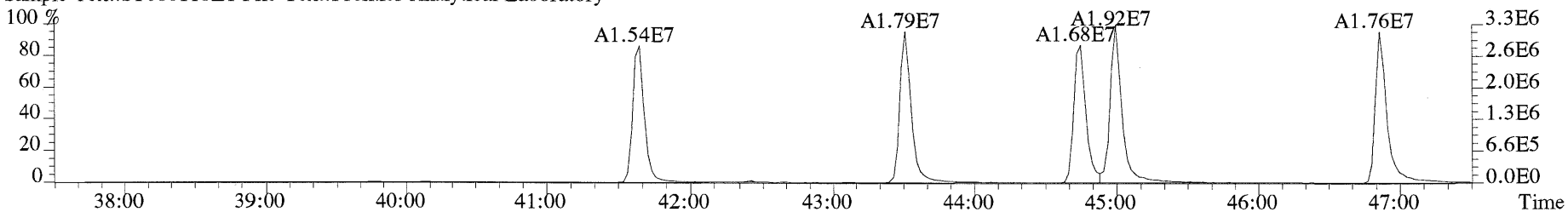
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



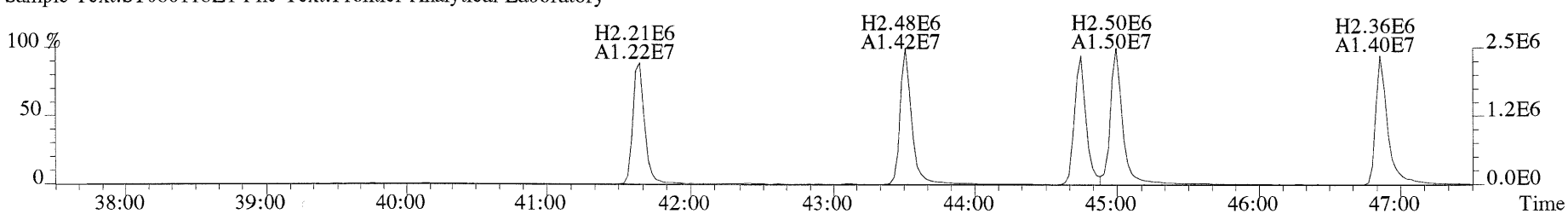
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



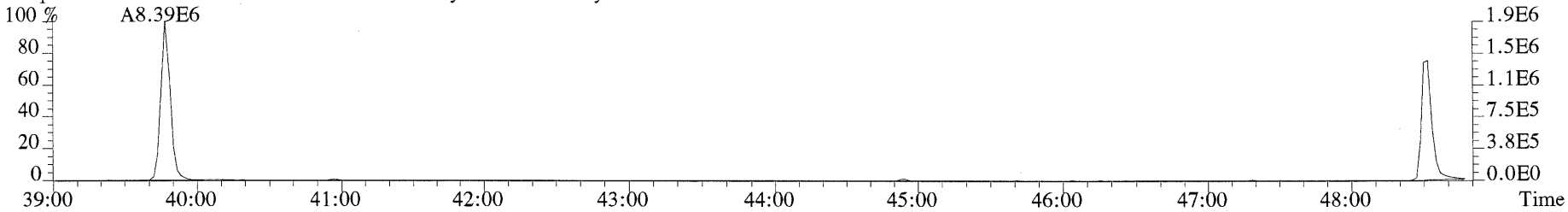
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



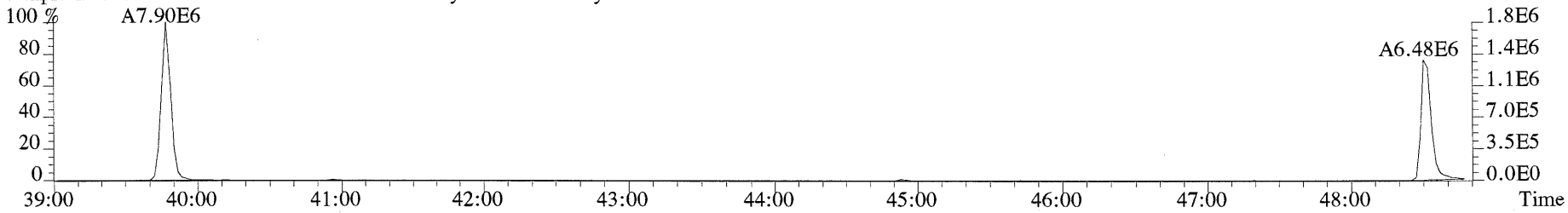
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



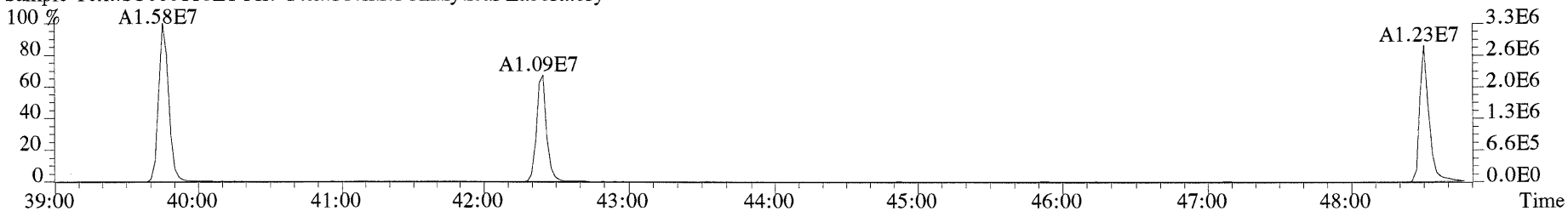
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



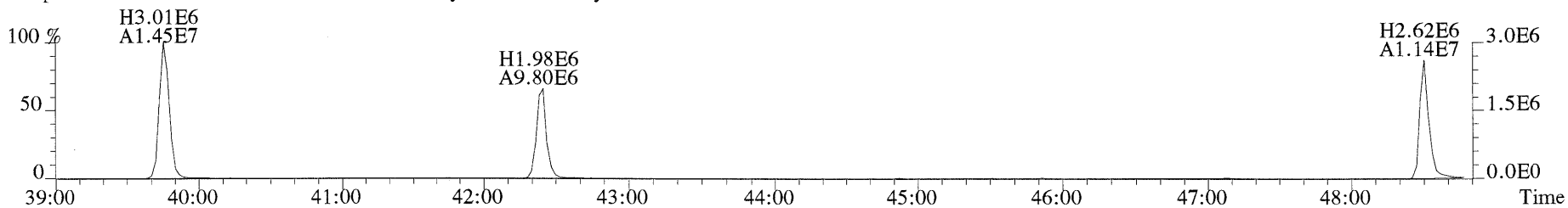
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



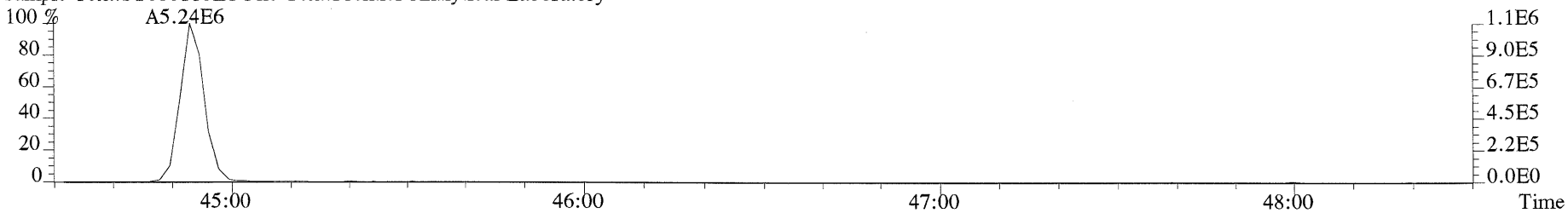
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



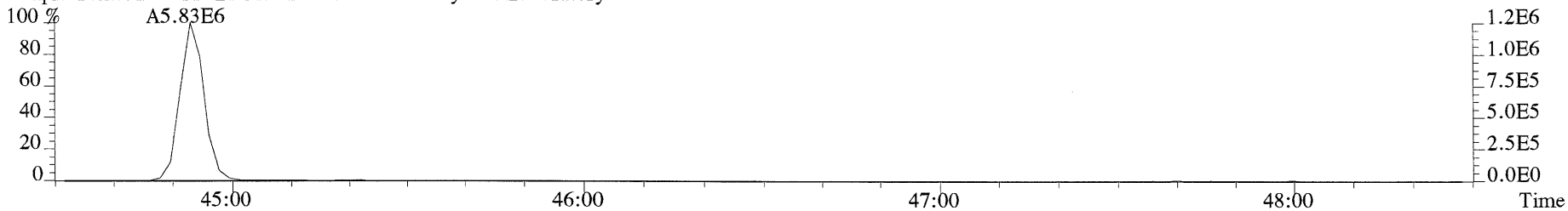
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



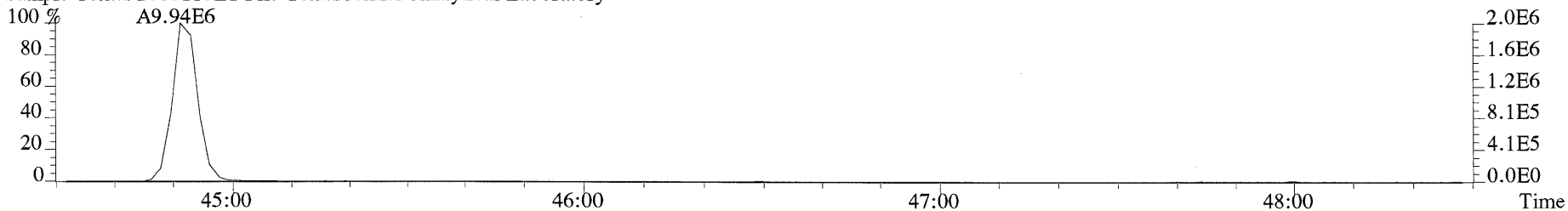
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



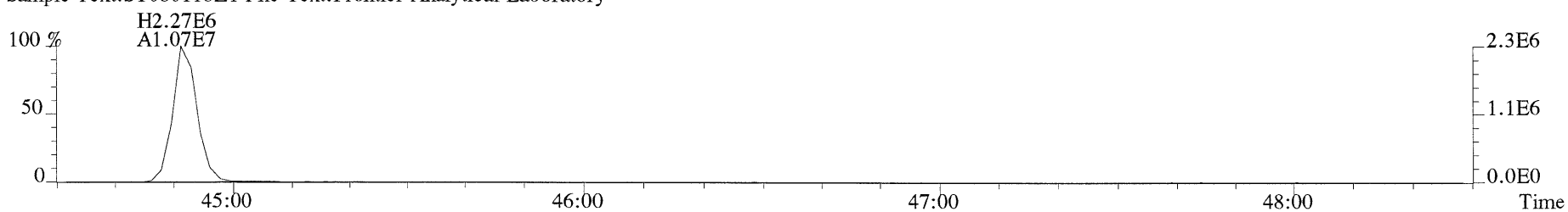
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



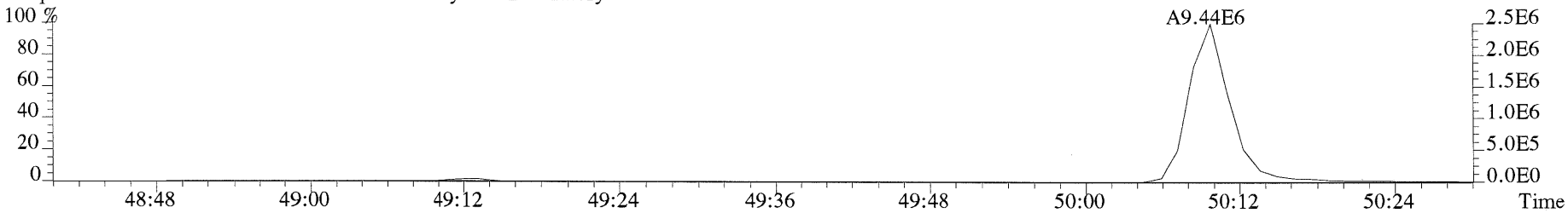
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



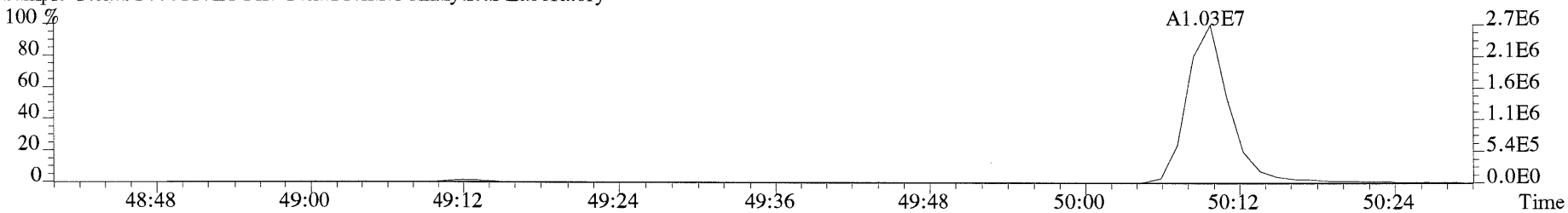
File:01AUG18Z #1-404 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



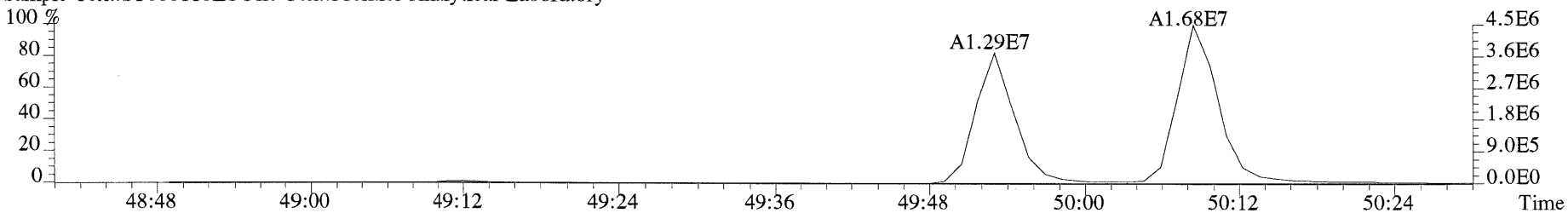
File:01AUG18Z #1-314 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



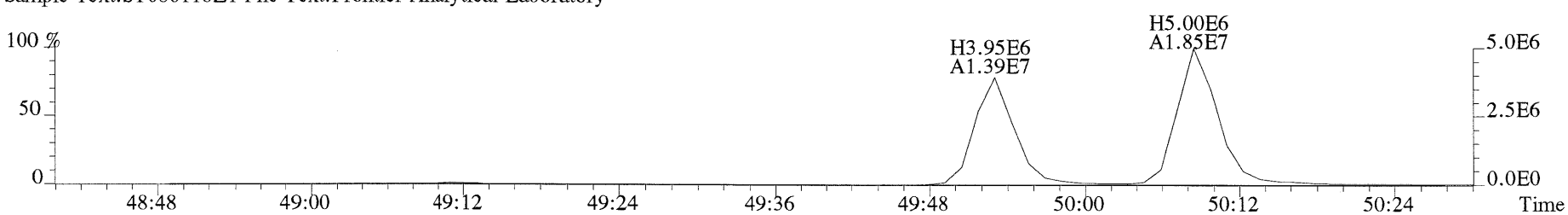
File:01AUG18Z #1-314 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



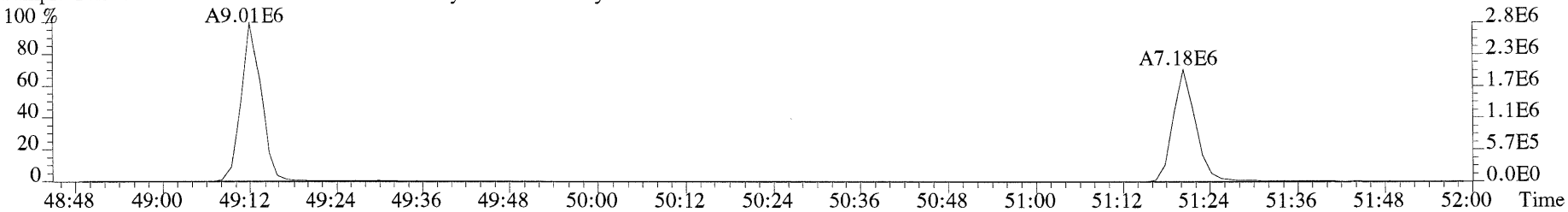
File:01AUG18Z #1-314 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



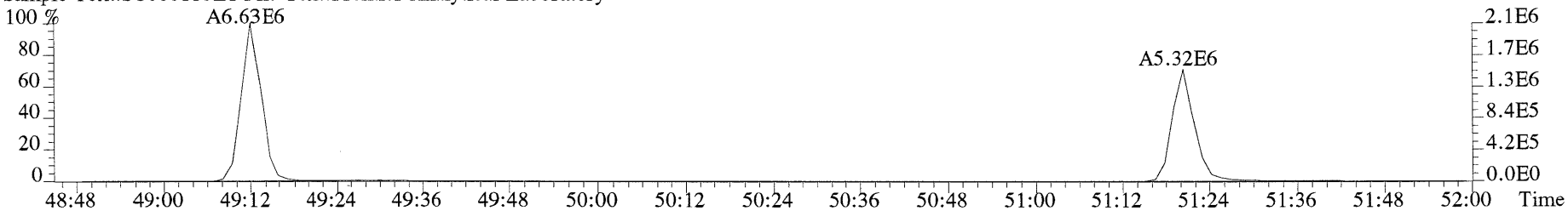
File:01AUG18Z #1-314 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



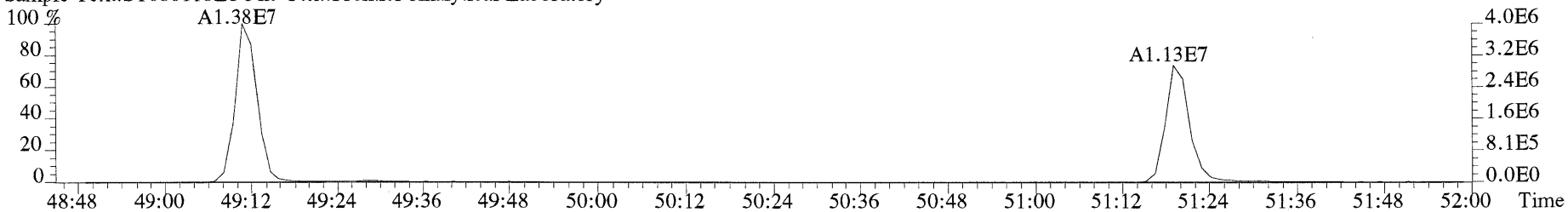
File:01AUG18Z #1-314 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



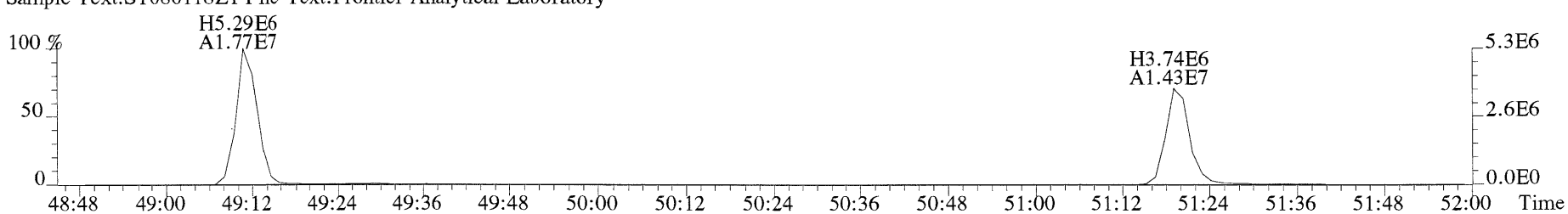
File:01AUG18Z #1-314 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



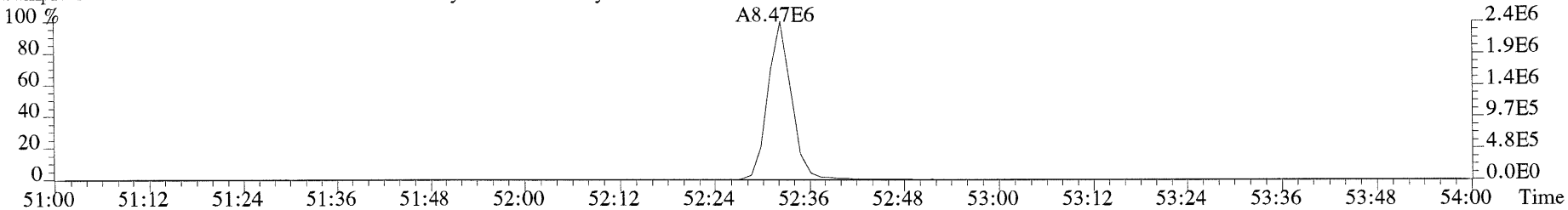
File:01AUG18Z #1-314 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



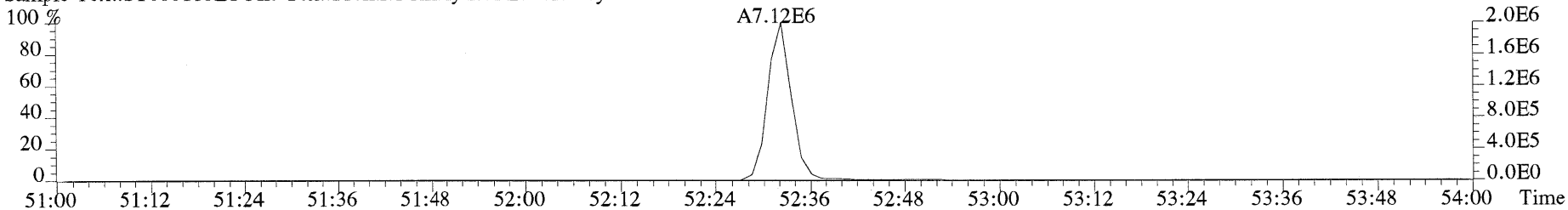
File:01AUG18Z #1-314 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



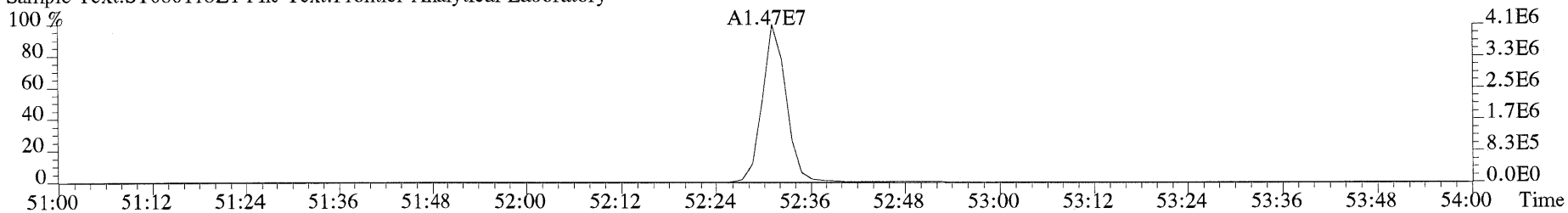
File:01AUG18Z #1-314 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



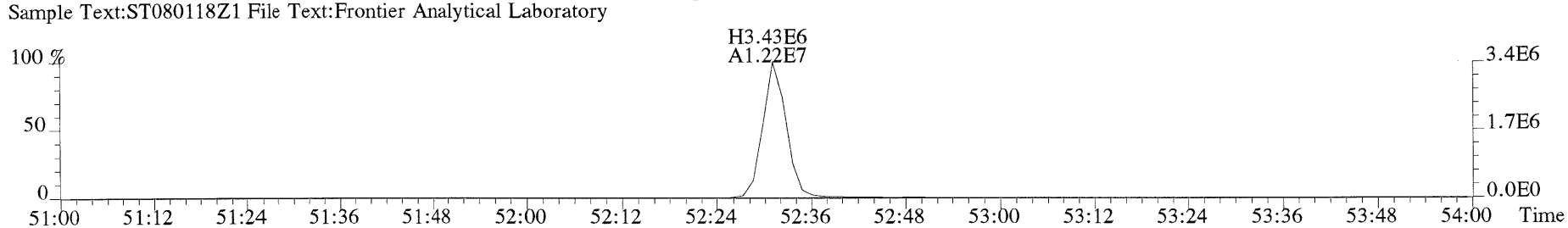
File:01AUG18Z #1-314 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory



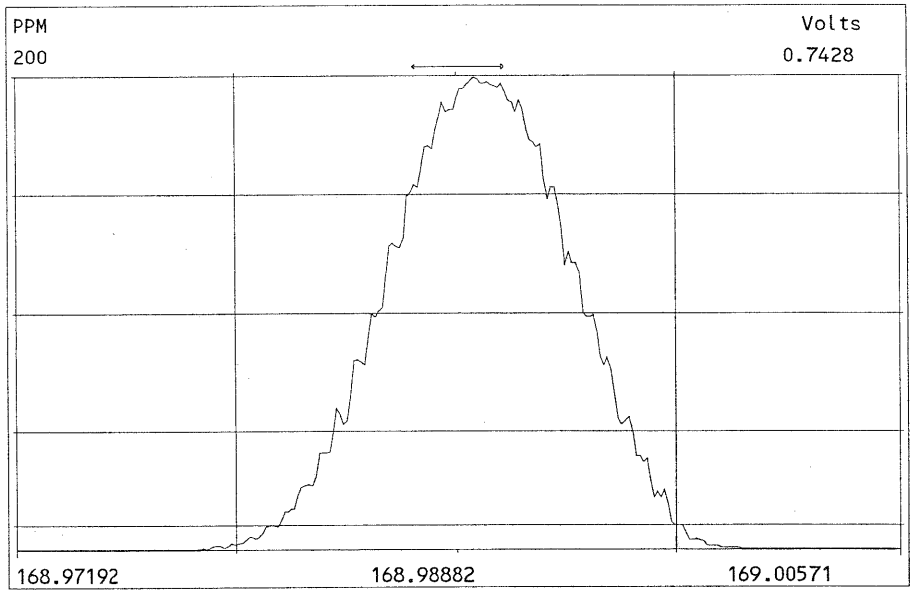
File:01AUG18Z #1-314 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory

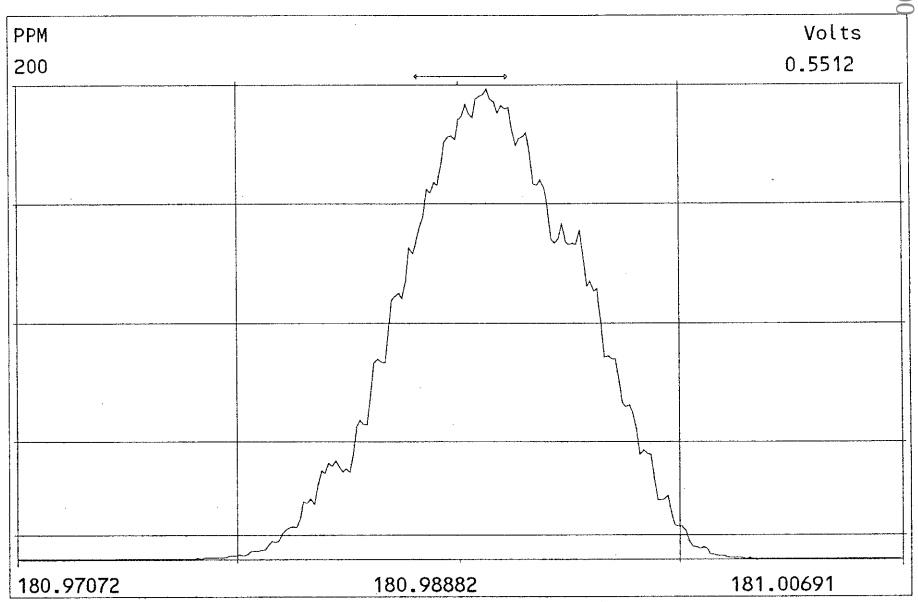


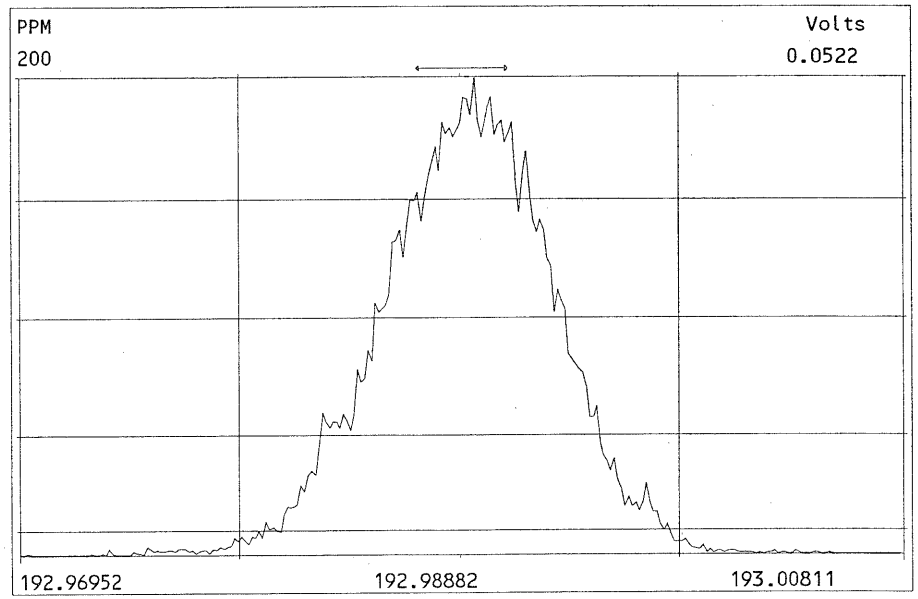
File:01AUG18Z #1-314 Acq: 1-AUG-2018 09:52:43 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z1 File Text:Frontier Analytical Laboratory

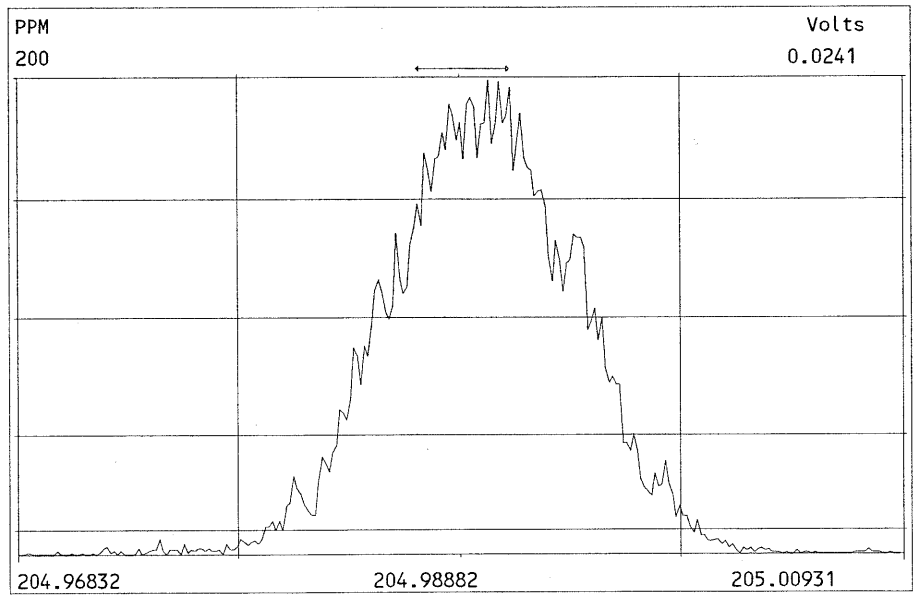


Peak Locate Examination: 2-AUG-2018:00:00 File:01AUG18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

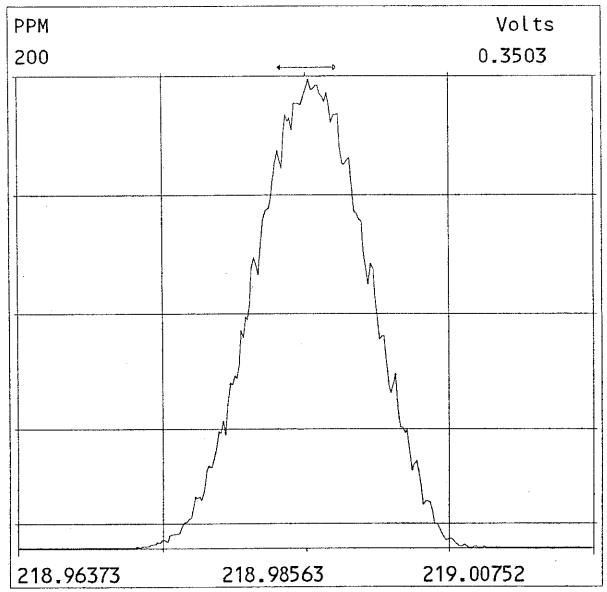


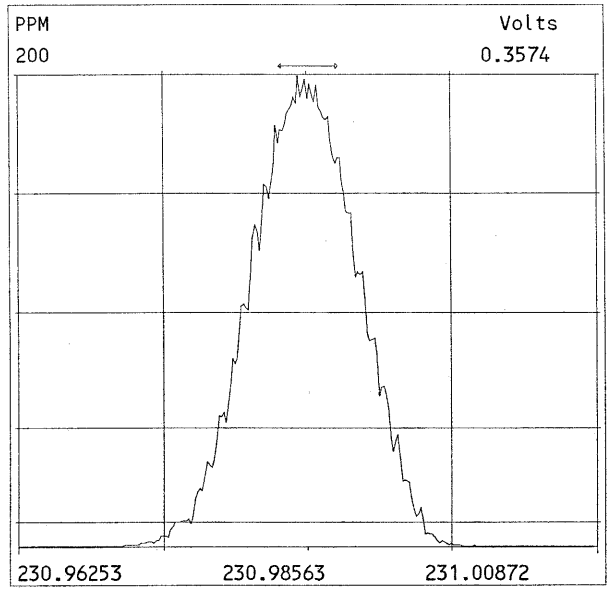


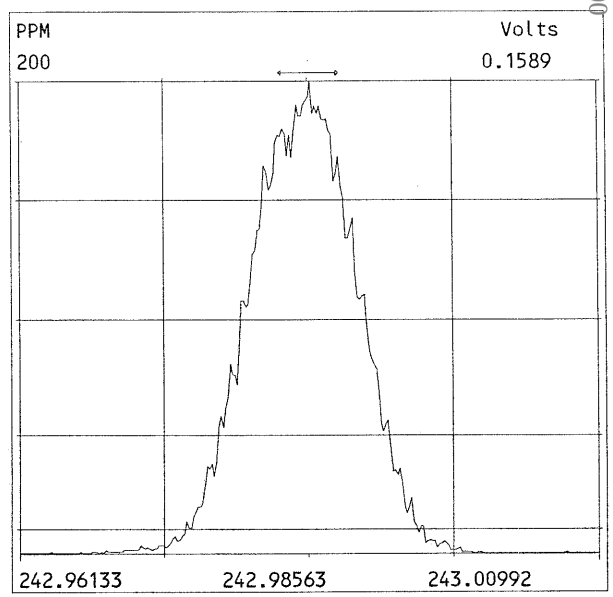


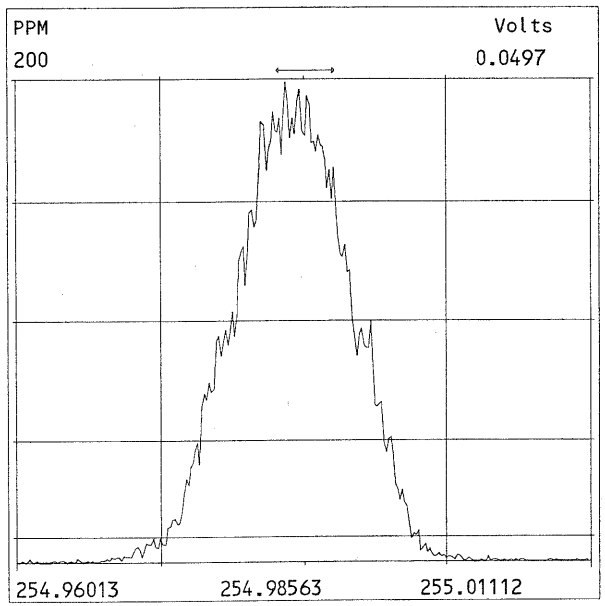


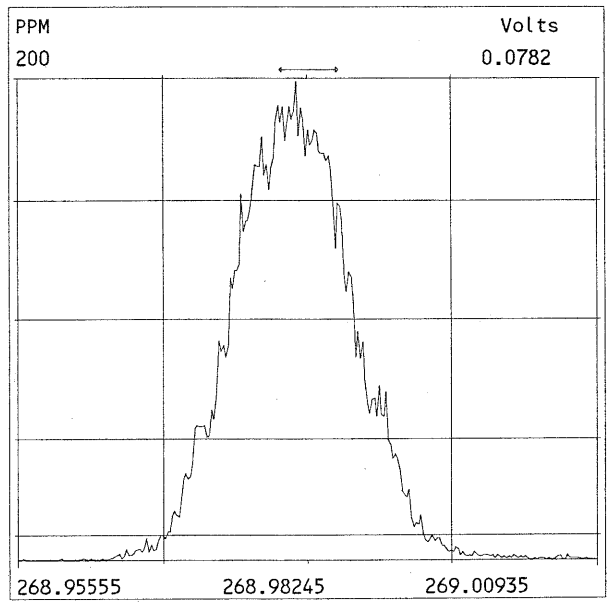
Peak Locate Examination: 2-AUG-2018:00:03 File:01AUG18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

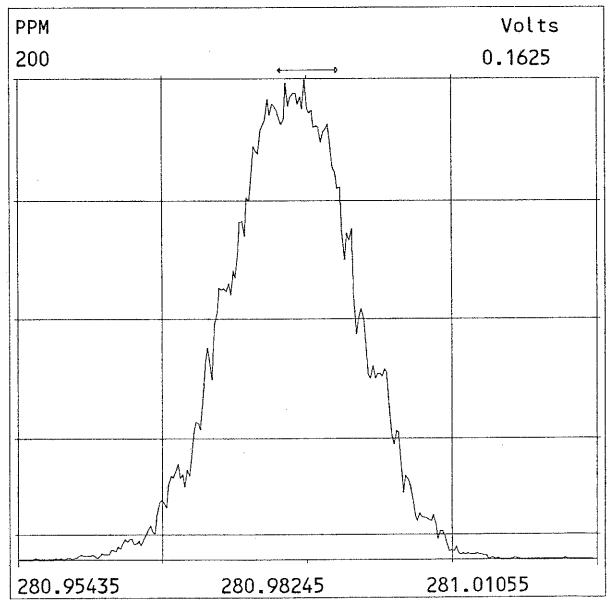




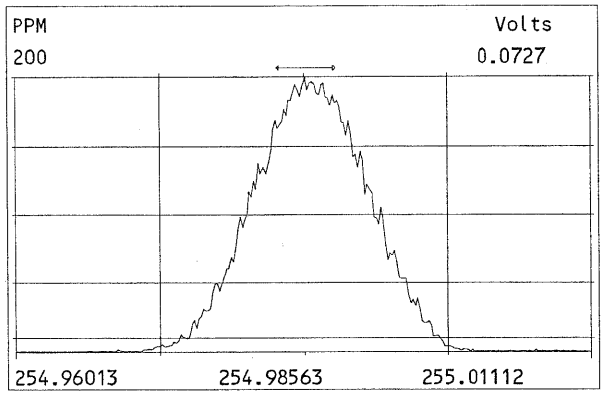


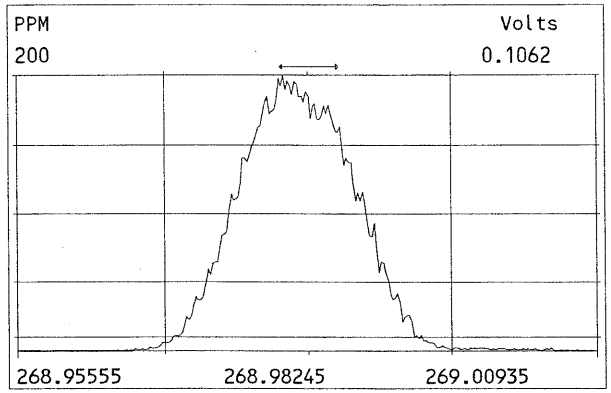


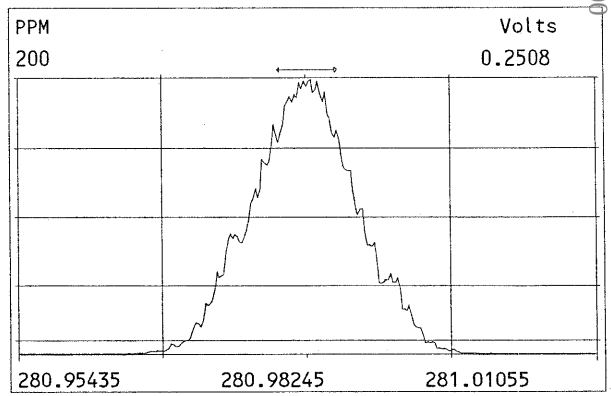


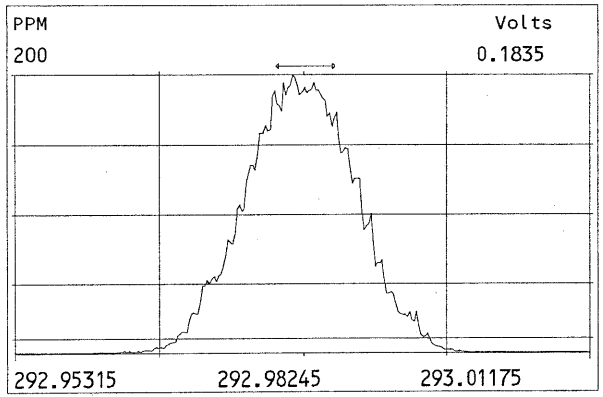


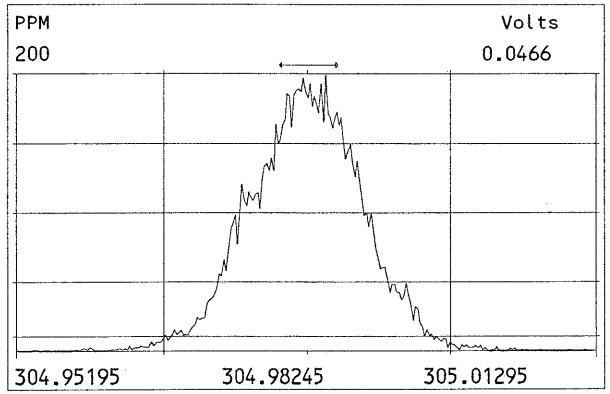
Peak Locate Examination: 2-AUG-2018:00:05 File:01AUG18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

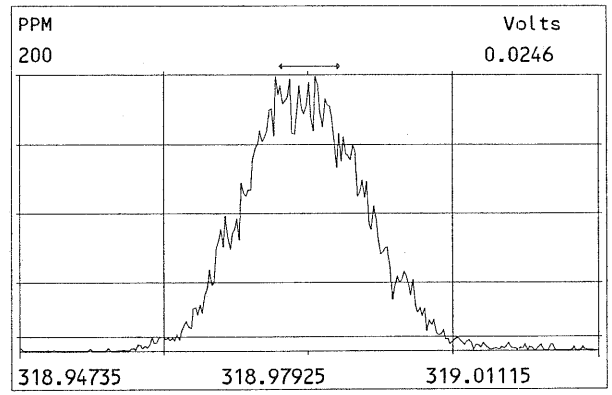


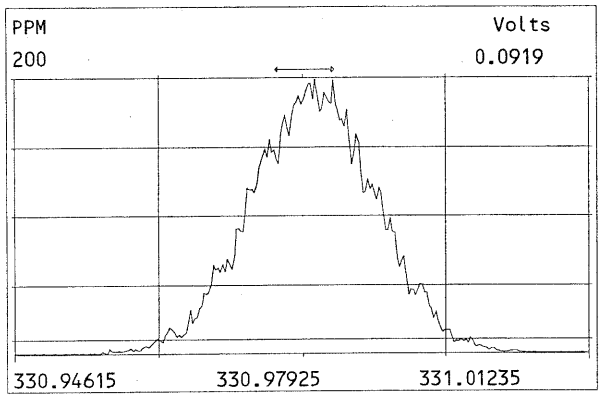


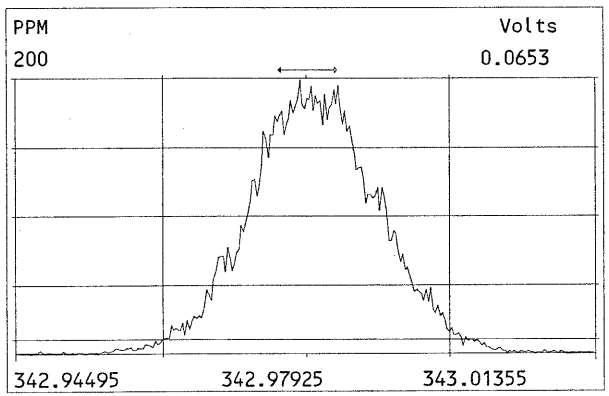




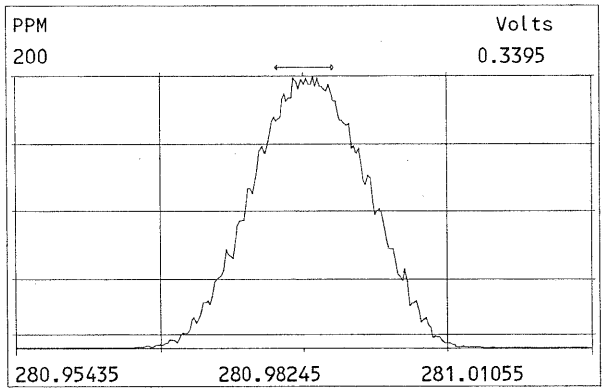


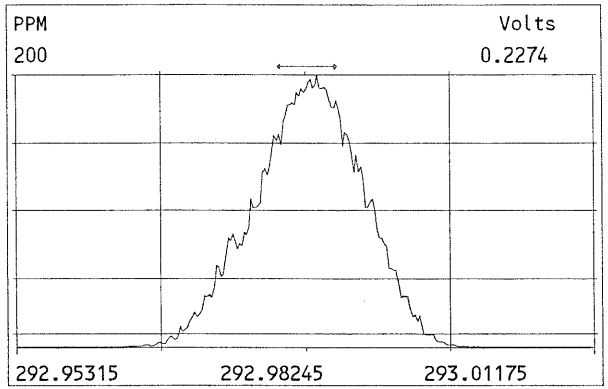


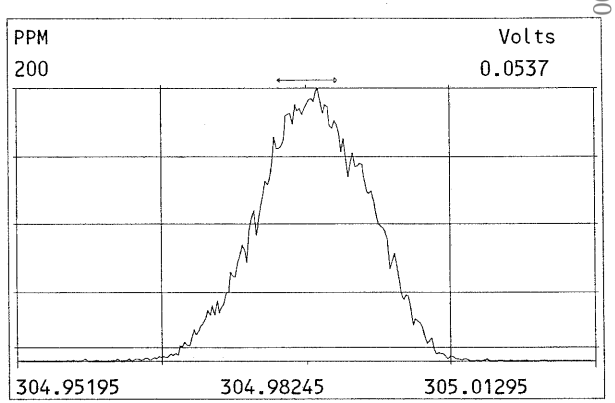


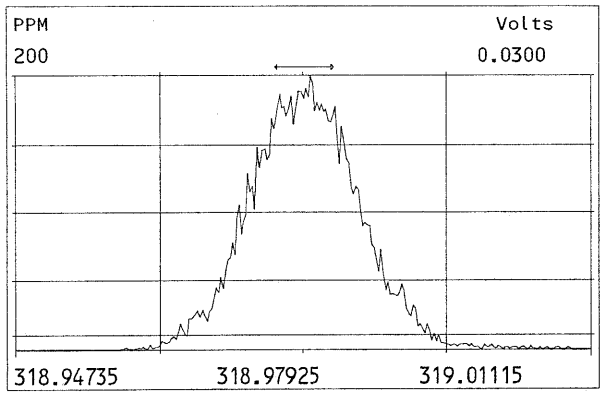


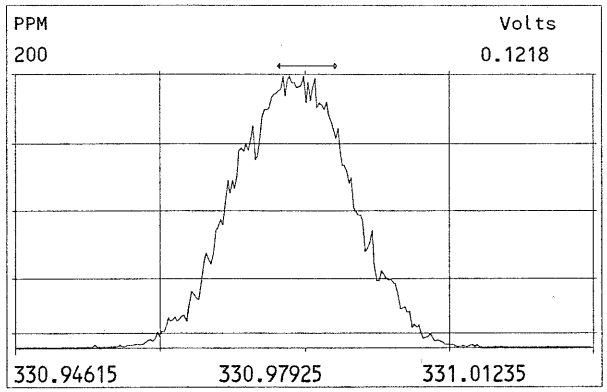
Peak Locate Examination: 2-AUG-2018:00:07 File:01AUG18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

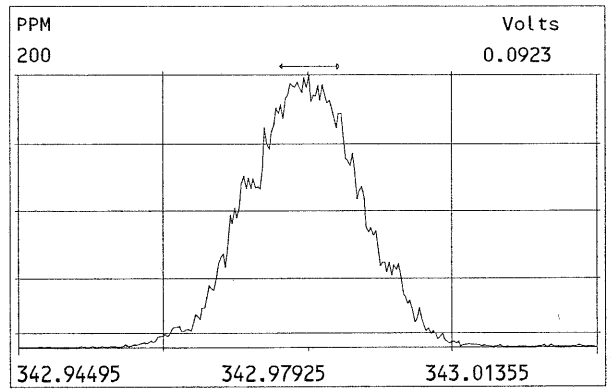


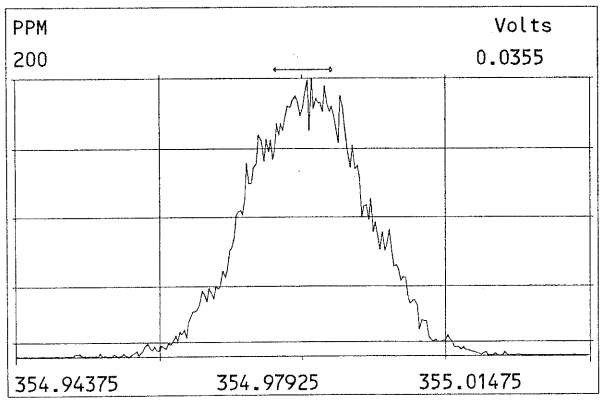


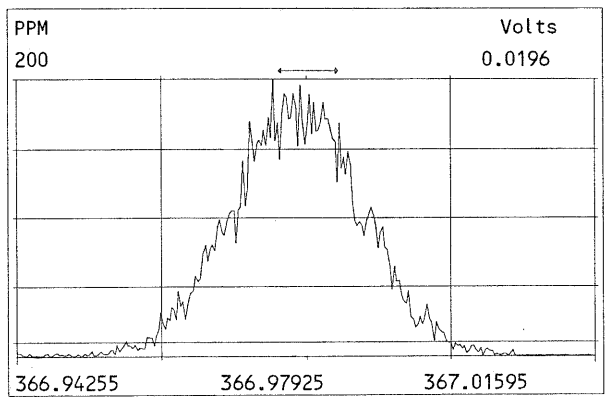


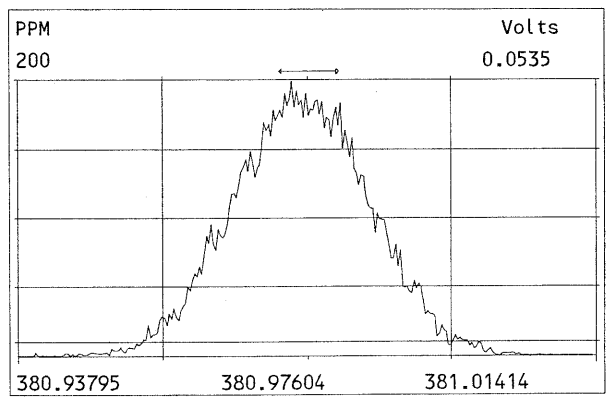




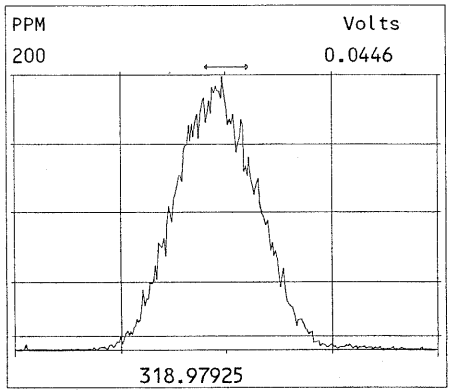


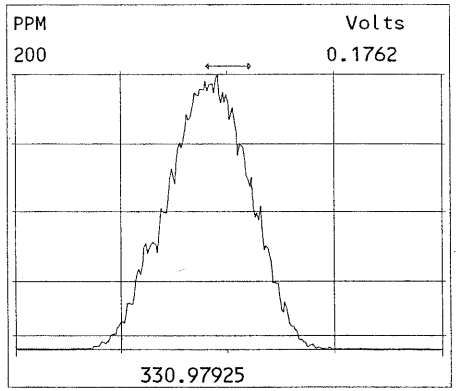


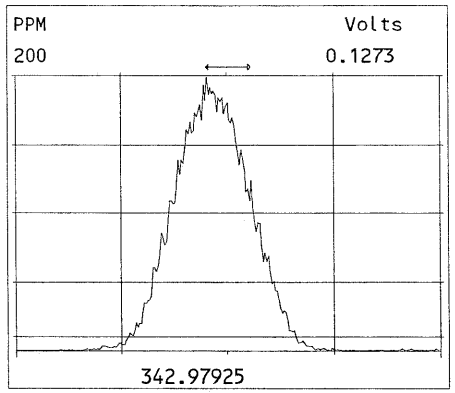


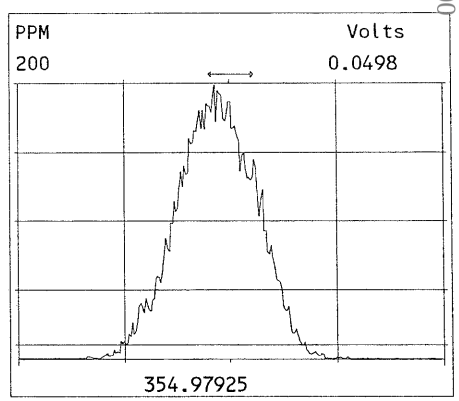


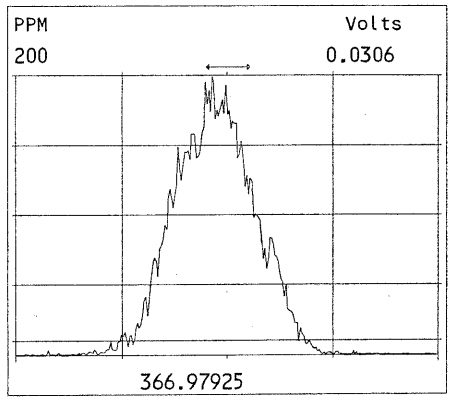
Peak Locate Examination: 2-AUG-2018:00:10 File:01AUG18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

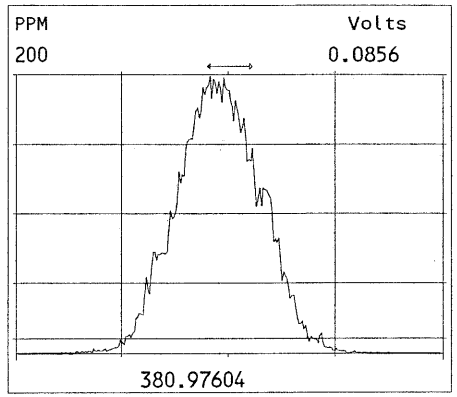


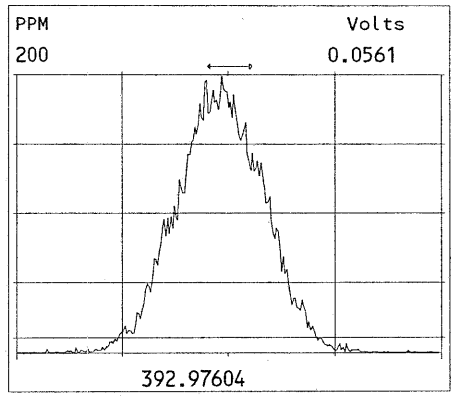


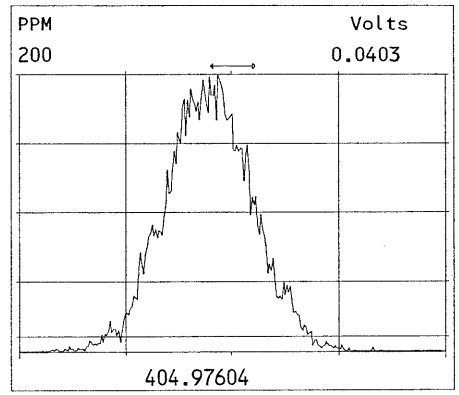


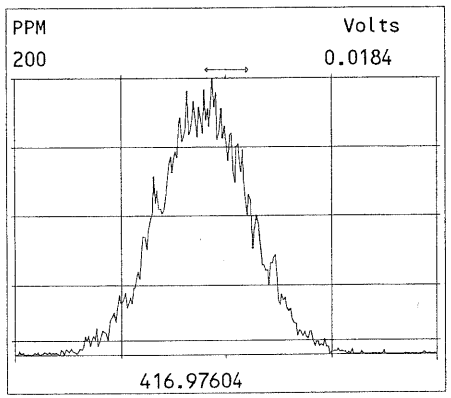


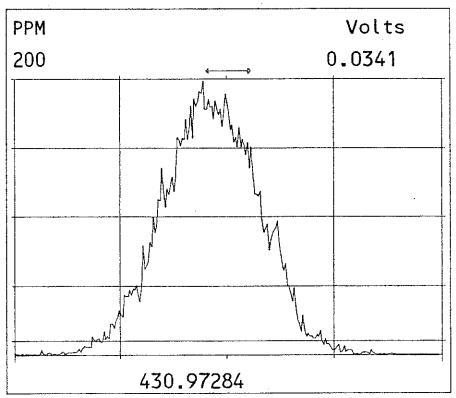


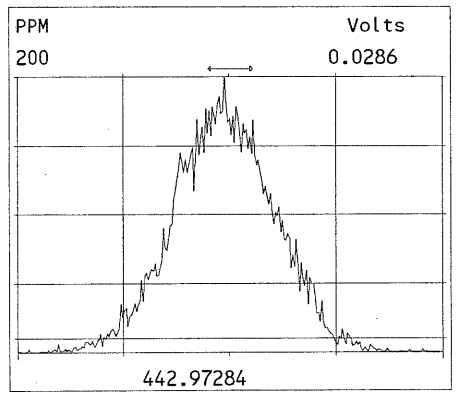




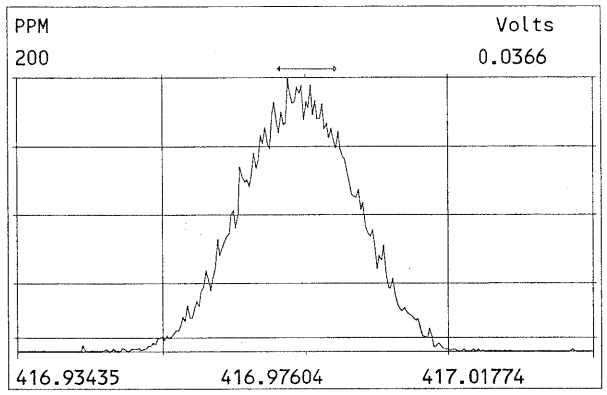


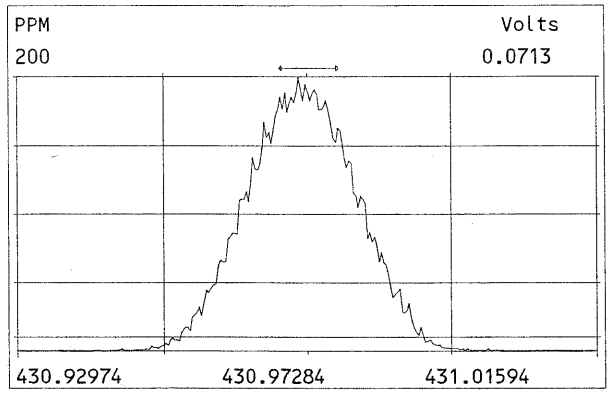


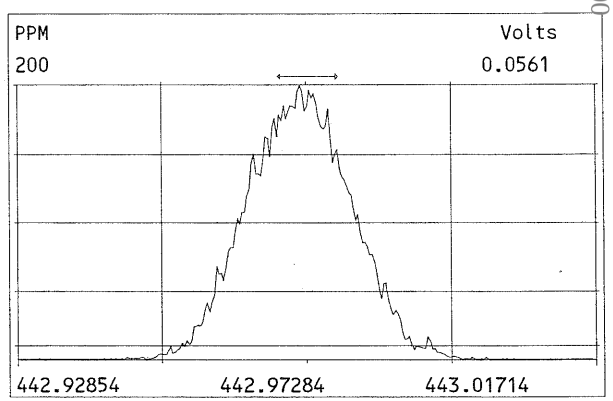


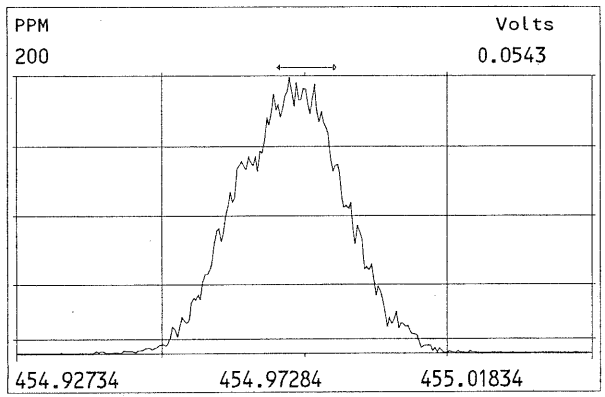


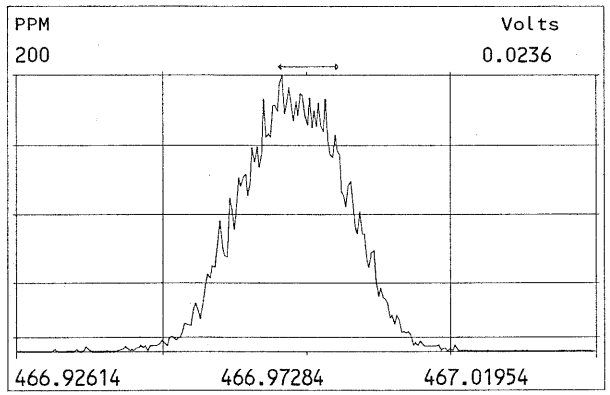
Peak Locate Examination: 2-AUG-2018:00:12 File:01AUG18Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

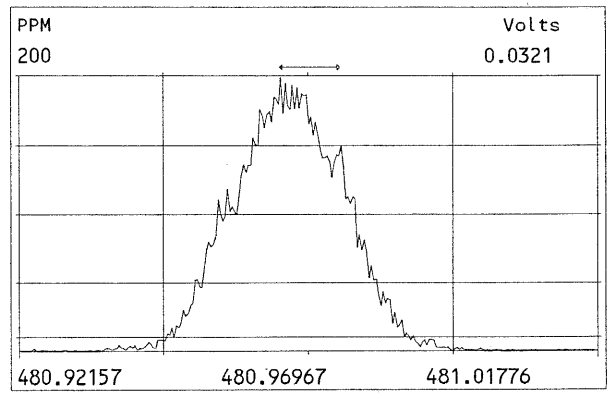


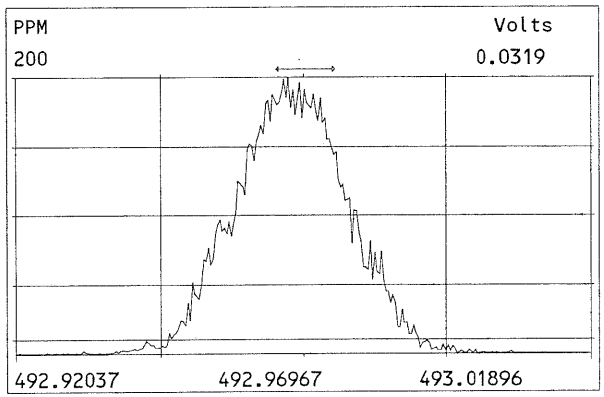


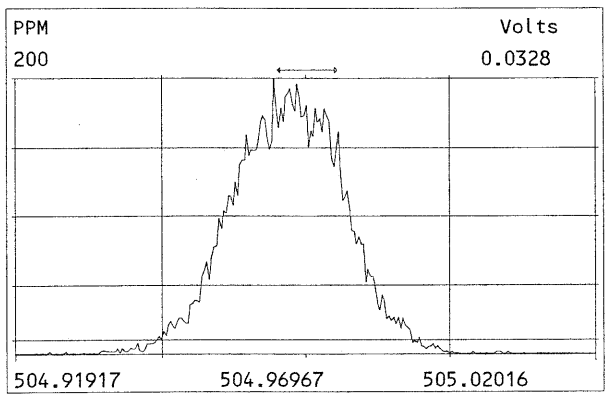


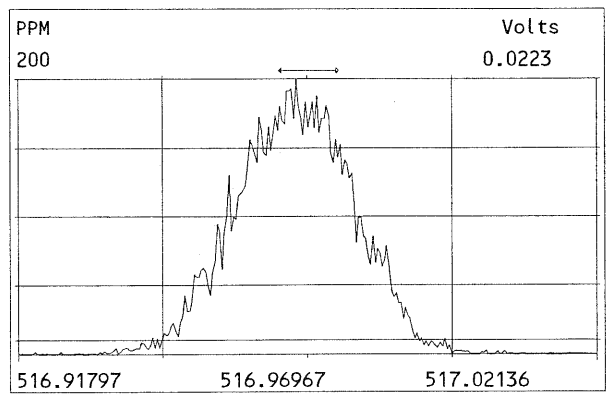












Cal: DAILY209FAL4-8-1-18

Run: 01AUG18Z Analyte: Results: Version: V3.6 21-MAY-2002 15:28:22

Data Filename:01AUG18Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.1429	-	1.14	
13C-PCB-1	1.0080	-	1.01	
PCB-2	1.0311	-	1.03	
PCB-3	1.1261	-	1.13	
13C-PCB-3	1.0209	-	1.02	
PCB-4	1.3306	-	1.33	
PCB-10	1.2469	-	1.25	
13C-PCB-4	0.6618	-	0.66	
PCB-9	1.3727	*	1.37	
PCB-7	1.3727	*	1.37	
PCB-6	1.3310	-	1.33	
PCB-8	1.3756	-	1.38	
PCB-5	1.3756	-	1.38	
PCB-14	1.2920	-	1.29	
PCB-11	1.2336	-	1.23	
PCB-13	1.3069	*	1.31	
PCB-12	1.3069	-	1.31	
PCB-15	1.2382	-	1.24	
13C-PCB-15	1.0461	-	1.05	
PCB-19	1.1420	-	1.14	
PCB-30	1.5656	-	1.57	
PCB-18	1.0962	-	1.10	
PCB-17	1.2001	-	1.20	
PCB-27	1.5681	*	1.57	
PCB-24	1.5509	-	1.55	
PCB-16	1.2918	*	1.29	
PCB-32	1.4015	-	1.40	
13C-PCB-19	0.4693	-	0.47	
13C-PCB-9	-	-	-	
PCB-34	1.0503	-	1.05	
PCB-23	1.2438	*	1.24	
PCB-29	1.2143	-	1.21	
PCB-26	1.1758	-	1.18	
PCB-25	1.5074	-	1.51	
PCB-31	1.2292	-	1.23	
PCB-28	1.4260	-	1.43	
PCB-20	1.2550	-	1.25	Co-elute PCB 21/33
PCB-21	1.2550	-	1.25	Co-elute PCB 20/33
PCB-33	1.2550	-	1.25	Co-elute PCB 20/21
PCB-22	1.2896	-	1.29	
PCB-36	1.1519	-	1.15	
PCB-39	1.2000	-	1.20	
PCB-38	1.1848	-	1.18	
PCB-35	1.0963	-	1.10	
PCB-37	1.2844	-	1.28	
13C-PCB-37	1.7198	-	1.72	

PCB-54	1.0994	-	1.10	
PCB-50	0.8497	-	0.85	
PCB-53	0.8802	-	0.88	
PCB-51	0.9159	-	0.92	
PCB-45	0.7638	-	0.76	
PCB-46	0.7417	-	0.74	
PCB-52	1.0500	-	1.05	Co-elute PCB 69
PCB-69	1.0500	-	1.05	Co-elute PCB 52
PCB-73	1.2123	-	1.21	
PCB-43	0.8505	-	0.85	Co-elute PCB 49
PCB-49	0.8505	-	0.85	Co-elute PCB 43
PCB-47	1.1423	-	1.14	
PCB-48	1.0314	-	1.03	Co-elute PCB 75
PCB-75	1.0314	-	1.03	Co-elute PCB 48
PCB-65	1.0867	-	1.09	
PCB-62	1.1928	-	1.19	
PCB-44	0.8053	-	0.81	
PCB-42	1.0508	-	1.05	Co-elute PCB 59
PCB-59	1.0508	-	1.05	Co-elute PCB 42
PCB-72	1.1255	-	1.13	Co-elute PCB 41/71/64
PCB-41	1.1255	-	1.13	Co-elute PCB 72/71/64
PCB-71	1.1255	-	1.13	Co-elute PCB 72/41/64
PCB-64	1.1255	-	1.13	Co-elute PCB 72/41/71
PCB-68	1.2414	-	1.24	
PCB-40	0.7064	-	0.71	
PCB-57	1.1059	-	1.11	
PCB-67	1.0963	-	1.10	
PCB-58	1.1339	-	1.13	
PCB-63	1.1686	-	1.17	
PCB-74	1.1856	-	1.19	
PCB-61	1.2211	-	1.22	Co-elute PCB 70
PCB-70	1.2211	-	1.22	Co-elute PCB 61
PCB-76	1.1696	*	1.17	Co-elute PCB 66
PCB-66	1.1696	*	1.17	Co-elute PCB 76
PCB-80	1.3117	-	1.31	
PCB-55	1.1612	-	1.16	
13C-PCB-54	1.1317	-	1.13	
PCB-104	1.2217	-	1.22	
PCB-96	1.0818	-	1.08	
PCB-103	0.9169	-	0.92	
PCB-100	0.9488	-	0.95	
PCB-94	0.7870	-	0.79	
PCB-98	0.9742	*	0.97	Co-elute PCB 102
PCB-102	0.9742	*	0.97	Co-elute PCB 98
PCB-95	0.8871	-	0.89	
PCB-93	0.7806	-	0.78	
PCB-88	0.8371	*	0.84	Co-elute PCB 91
PCB-91	0.8371	*	0.84	Co-elute PCB 88
PCB-121	1.1928	-	1.19	
13C-PCB-104	0.7101	-	0.71	
13C-PCB-28	1.9771	-	1.98	
13C-PCB-52	-	-	-	

PCB-56	1.0765	-	1.08	Co-elute PCB 60
PCB-60	1.0765	-	1.08	Co-elute PCB 56
PCB-79	1.1439	-	1.14	
PCB-78	1.1453	-	1.15	
PCB-81	1.2007	-	1.20	
13C-PCB-81	1.6066	-	1.61	
PCB-77	1.1668	-	1.17	
13C-PCB-77	1.6471	-	1.65	
PCB-155	1.1284	-	1.13	
PCB-150	1.0199	-	1.02	
PCB-152	0.9823	-	0.98	
PCB-145	0.9938	-	0.99	
PCB-136	0.9473	-	0.95	
PCB-148	0.7611	-	0.76	
PCB-154	0.8974	-	0.90	
13C-PCB-155	0.9737	-	0.97	
13C-PCB-111	1.2358	-	1.24	
13C-PCB-101	-	-	-	
PCB-84	0.5971	-	0.60	Co-elute PCB 92
PCB-92	0.5971	-	0.60	Co-elute PCB 84
PCB-89	0.5900	-	0.59	
PCB-90	0.6845	-	0.68	Co-elute PCB 101
PCB-101	0.6845	-	0.68	Co-elute PCB 90
PCB-113	0.7930	-	0.79	
PCB-99	0.7511	-	0.75	
PCB-119	0.8391	-	0.84	
PCB-83	0.6929	-	0.69	Co-elute PCB 112
PCB-112	0.6929	-	0.69	Co-elute PCB 83
PCB-109	0.9000	-	0.90	
PCB-97	0.7383	-	0.74	
PCB-86	0.6529	*	0.65	
PCB-125	0.7603	-	0.76	Co-elute PCB 87/117
PCB-87	0.7603	-	0.76	Co-elute PCB 125/117
PCB-117	0.7603	-	0.76	Co-elute PCB 125/87
PCB-111	1.0233	-	1.02	Co-elute PCB 115
PCB-115	1.0233	-	1.02	Co-elute PCB 111
PCB-85	0.7143	-	0.71	Co-elute PCB 116
PCB-116	0.7143	-	0.71	Co-elute PCB 85
PCB-120	0.8605	-	0.86	
PCB-110	1.0020	-	1.00	
PCB-82	0.5042	-	0.50	
PCB-124	1.0435	-	1.04	
PCB-108	1.0460	-	1.05	Co-elute PCB 107
PCB-107	1.0460	-	1.05	Co-elute PCB 108
PCB-123	1.4485	-	1.45	
13C-PCB-123	1.3114	-	1.31	
PCB-118	1.0515	-	1.05	Co-elute PCB 106
PCB-106	1.0515	-	1.05	Co-elute PCB 118
13C-PCB-118	1.5715	-	1.57	
PCB-114	1.1342	-	1.13	
13C-PCB-114	1.4567	-	1.46	
PCB-122	1.1191	-	1.12	
PCB-105	1.1196	-	1.12	
13C-PCB-105	1.4309	-	1.43	
PCB-127	1.0625	-	1.06	
PCB-126	1.1516	-	1.15	
13C-PCB-126	1.3709	-	1.37	

PCB-151	0.6634	-	0.66	
PCB-135	0.7596	-	0.76	
PCB-144	0.7468	-	0.75	
PCB-147	0.8522	-	0.85	
PCB-139	0.8560	-	0.86	Co-elute PCB 149
PCB-149	0.8560	-	0.86	Co-elute PCB 139
PCB-140	0.8606	-	0.86	
PCB-143	0.8097	-	0.81	Co-elute PCB 134
PCB-134	0.8097	-	0.81	Co-elute PCB 143
PCB-131	0.8054	-	0.81	Co-elute PCB 133
PCB-133	0.8054	-	0.81	Co-elute PCB 131
PCB-142	0.7359	-	0.74	
PCB-165	0.9804	-	0.98	Co-elute PCB 146
PCB-146	0.9804	-	0.98	Co-elute PCB 165
PCB-161	0.8854	-	0.89	Co-elute PCB 132
PCB-132	0.8854	-	0.89	Co-elute PCB 161
PCB-153	0.9794	-	0.98	
PCB-168	1.1232	-	1.12	
PCB-141	0.8598	-	0.86	
PCB-137	0.7702	-	0.77	
PCB-130	0.8632	-	0.86	
PCB-138	1.0878	-	1.09	Co-elute PCB 163/164
PCB-163	1.0878	-	1.09	Co-elute PCB 138/164
PCB-164	1.0878	-	1.09	Co-elute PCB 138/163
PCB-158	1.1267	-	1.13	Co-elute PCB 160
PCB-160	1.1267	-	1.13	Co-elute PCB 158
PCB-129	0.7269	-	0.73	
PCB-166	1.0460	-	1.05	
PCB-159	1.1119	-	1.11	
PCB-128	0.9530	-	0.95	Co-elute PCB 162
PCB-162	0.9530	-	0.95	Co-elute PCB 128
PCB-167	1.0488	-	1.05	
13C-PCB-167	1.1683	-	1.17	
PCB-156	1.0603	-	1.06	
13C-PCB-156	1.1200	-	1.12	
PCB-157	1.1300	-	1.13	
13C-PCB-157	1.2079	-	1.21	
PCB-169	1.0404	-	1.04	
13C-PCB-169	1.1269	-	1.13	
PCB-188	1.1358	-	1.14	
13C-PCB-188	0.9496	-	0.95	

PCB-184	1.1791	-	1.18	
PCB-179	1.0922	-	1.09	
PCB-176	1.0698	-	1.07	
PCB-186	1.0784	-	1.08	
PCB-178	0.7823	-	0.78	
PCB-175	0.8095	-	0.81	
PCB-187	0.9269	-	0.93	Co-elute PCB 182
PCB-182	0.9269	-	0.93	Co-elute PCB 187
PCB-183	0.8989	-	0.90	
PCB-185	0.8451	-	0.85	
PCB-174	0.8806	-	0.88	
PCB-181	0.8314	-	0.83	
PCB-177	0.7333	-	0.73	
PCB-171	0.8125	-	0.81	
PCB-173	0.7455	-	0.75	
PCB-172	0.7467	-	0.75	
PCB-192	1.0244	-	1.02	
PCB-180	1.0628	-	1.06	
PCB-193	1.0725	-	1.07	
PCB-191	1.0287	-	1.03	
PCB-170	0.7299	-	0.73	
PCB-190	0.9981	-	1.00	
PCB-189	1.1047	-	1.10	
13C-PCB-189	0.8816	-	0.88	
PCB-202	0.9675	-	0.97	
PCB-201	0.9163	-	0.92	
PCB-204	0.9689	-	0.97	
PCB-197	1.0217	-	1.02	
PCB-200	0.9359	-	0.94	
PCB-198	0.6474	-	0.65	
PCB-199	0.7697	-	0.77	
PCB-203	0.7855	-	0.79	Co-elute PCB 196
PCB-196	0.7855	-	0.79	Co-elute PCB 203
13C-PCB-202	0.6936	-	0.69	
13C-PCB-178	0.7259	-	0.73	
13C-PCB-138	-	-	-	
PCB-195	0.7512	-	0.75	
PCB-194	0.8206	-	0.82	
PCB-205	1.1124	-	1.11	
13C-PCB-205	1.2997	-	1.30	
PCB-208	0.9905	-	0.99	
13C-PCB-208	1.1058	-	1.11	
PCB-207	0.9970	*	1.00	
PCB-206	1.0195	-	1.02	
13C-PCB-206	0.8719	-	0.87	
PCB-209	1.0949	-	1.09	
13C-PCB-209	1.0262	-	1.03	
13C-PCB-194	-	-	-	

Analyst: [illegible] Date: 8/1/18

Run #1 Filename 01AUG18Z S: 2 Acquired: 1-AUG-18 10:51:03 Cal: DAILY209FAL4-8-1-18
Client ID: SS080118Z1 Analyte: FAL ID: Daily 209 180725A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	5.24e+07	3.20 y	14:33	-	1.14	
2	IS/RT	13C-PCB-1	100.00	9.17e+07	3.15 y	14:32	-	1.01	
3	Unk	PCB-2	50.00	4.76e+07	3.19 y	16:46	-	1.03	
4	Unk	PCB-3	50.00	5.23e+07	3.17 y	16:60	-	1.13	
5	IS/RT	13C-PCB-3	100.00	9.29e+07	3.26 y	16:59	-	1.02	
6	Unk	PCB-4	50.00	4.00e+07	1.54 y	18:13	-	1.33	
7	Unk	PCB-10	50.00	4.84e+07	1.57 y	18:17	-	1.25	
8	IS/RT	13C-PCB-4	100.00	6.02e+07	1.58 y	18:12	-	0.662	
9	Unk	PCB-9	50.00	5.33e+07	1.57 y	19:56	-	1.37	
10	Unk	PCB-7	50.00	5.33e+07	1.57 y	19:56	-	1.37	
11	Unk	PCB-6	50.00	5.17e+07	1.61 y	20:33	-	1.33	
12	Unk	PCB-8	50.00	5.34e+07	1.57 y	20:56	-	1.38	
13	Unk	PCB-5	50.00	5.34e+07	1.57 y	20:56	-	1.38	
14	Unk	PCB-14	50.00	5.02e+07	1.58 y	21:59	-	1.29	
15	Unk	PCB-11	50.00	4.79e+07	1.66 y	23:07	-	1.23	
16	Unk	PCB-13	50.00	5.08e+07	1.57 y	23:29	-	1.31	
17	Unk	PCB-12	50.00	5.08e+07	1.57 y	23:29	-	1.31	
18	Unk	PCB-15	50.00	5.89e+07	1.64 y	23:47	-	1.24	
19	IS/RT	13C-PCB-15	100.00	9.52e+07	1.62 y	23:46	-	1.05	
20	Unk	PCB-19	50.00	2.44e+07	1.05 y	22:07	-	1.14	
21	Unk	PCB-30	50.00	3.34e+07	1.04 y	22:58	-	1.57	
22	Unk	PCB-18	50.00	2.34e+07	1.05 y	23:40	-	1.10	
23	Unk	PCB-17	50.00	2.56e+07	1.06 y	23:50	-	1.20	
24	Unk	PCB-27	50.00	3.35e+07	1.03 y	24:22	-	1.57	
25	Unk	PCB-24	50.00	3.31e+07	1.10 y	24:23	-	1.55	
26	Unk	PCB-16	50.00	2.76e+07	1.08 y	24:51	-	1.29	
27	Unk	PCB-32	50.00	2.99e+07	1.02 y	24:53	-	1.40	
28	IS/RT	13C-PCB-19	100.00	4.27e+07	1.08 y	22:05	-	0.469	
29	RS	13C-PCB-9	100.00	9.10e+07	1.63 y	19:53	9.10e+05	-	
30	Unk	PCB-34	50.00	4.17e+07	1.04 y	25:38	-	1.05	
31	Unk	PCB-23	50.00	4.94e+07	1.07 y	25:43	-	1.24	
32	Unk	PCB-29	50.00	4.82e+07	1.06 y	25:58	-	1.21	
33	Unk	PCB-26	50.00	4.67e+07	1.07 y	26:09	-	1.18	
34	Unk	PCB-25	50.00	5.99e+07	1.08 y	26:18	-	1.51	
35	Unk	PCB-31	50.00	4.88e+07	1.06 y	26:38	-	1.23	
36	Unk	PCB-28	50.00	5.66e+07	1.10 y	26:45	-	1.43	
37	Unk	PCB-20	150.00	1.50e+08	1.08 y	27:19	-	1.25	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	1.50e+08	1.08 y	27:19	-	1.25	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	1.50e+08	1.08 y	27:19	-	1.25	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	5.12e+07	1.07 y	27:45	-	1.29	
41	Unk	PCB-36	50.00	4.58e+07	1.07 y	28:21	-	1.15	
42	Unk	PCB-39	50.00	4.77e+07	1.07 y	28:49	-	1.20	
43	Unk	PCB-38	50.00	4.71e+07	1.05 y	29:32	-	1.18	
44	Unk	PCB-35	50.00	4.36e+07	1.08 y	30:02	-	1.10	
45	Unk	PCB-37	50.00	5.10e+07	1.07 y	30:27	-	1.28	
46	IS	13C-PCB-37	100.00	7.94e+07	1.12 y	30:26	-	1.72	

47	Unk	PCB-54	100.00	5.75e+07	0.81 y	25:39	-	1.10	
48	Unk	PCB-50	100.00	4.44e+07	0.81 y	26:46	-	0.850	
49	Unk	PCB-53	100.00	4.60e+07	0.81 y	27:23	-	0.880	
50	Unk	PCB-51	100.00	4.79e+07	0.80 y	27:42	-	0.916	
51	Unk	PCB-45	100.00	3.99e+07	0.79 y	28:07	-	0.764	
52	Unk	PCB-46	100.00	3.88e+07	0.79 y	28:35	-	0.742	
53	Unk	PCB-52	200.00	1.10e+08	0.79 y	29:03	-	1.05	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.10e+08	0.79 y	29:03	-	1.05	Co-elute PCB 52
55	Unk	PCB-73	100.00	6.34e+07	0.82 y	29:08	-	1.21	
56	Unk	PCB-43	200.00	8.89e+07	0.80 y	29:18	-	0.851	Co-elute PCB 49
57	Unk	PCB-49	200.00	8.89e+07	0.80 y	29:18	-	0.851	Co-elute PCB 43
58	Unk	PCB-47	100.00	5.97e+07	0.79 y	29:30	-	1.14	
59	Unk	PCB-48	200.00	1.08e+08	0.82 y	29:37	-	1.03	Co-elute PCB 75
60	Unk	PCB-75	200.00	1.08e+08	0.82 y	29:37	-	1.03	Co-elute PCB 48
61	Unk	PCB-65	100.00	5.68e+07	0.79 y	29:52	-	1.09	
62	Unk	PCB-62	100.00	6.24e+07	0.81 y	29:58	-	1.19	
63	Unk	PCB-44	100.00	4.21e+07	0.80 y	30:15	-	0.805	
64	Unk	PCB-42	200.00	1.10e+08	0.80 y	30:27	-	1.05	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.10e+08	0.80 y	30:27	-	1.05	Co-elute PCB 42
66	Unk	PCB-72	400.00	2.35e+08	0.80 y	31:01	-	1.13	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	2.35e+08	0.80 y	31:01	-	1.13	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	2.35e+08	0.80 y	31:01	-	1.13	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	2.35e+08	0.80 y	31:01	-	1.13	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	6.49e+07	0.81 y	31:17	-	1.24	
71	Unk	PCB-40	100.00	3.69e+07	0.82 y	31:28	-	0.706	
72	Unk	PCB-57	100.00	5.78e+07	0.80 y	31:49	-	1.11	
73	Unk	PCB-67	100.00	5.73e+07	0.80 y	32:07	-	1.10	
74	Unk	PCB-58	100.00	5.93e+07	0.81 y	32:12	-	1.13	
75	Unk	PCB-63	100.00	6.11e+07	0.80 y	32:22	-	1.17	
76	Unk	PCB-74	100.00	6.20e+07	0.80 y	32:39	-	1.19	
77	Unk	PCB-61	200.00	1.28e+08	0.79 y	32:50	-	1.22	Co-elute PCB 70
78	Unk	PCB-70	200.00	1.28e+08	0.79 y	32:50	-	1.22	Co-elute PCB 61
79	Unk	PCB-76	200.00	1.22e+08	0.81 y	33:03	-	1.17	Co-elute PCB 66
80	Unk	PCB-66	200.00	1.22e+08	0.81 y	33:03	-	1.17	Co-elute PCB 76
81	Unk	PCB-80	100.00	6.86e+07	0.81 y	33:15	-	1.31	
82	Unk	PCB-55	100.00	6.07e+07	0.81 y	33:33	-	1.16	
83	IS/RT	13C-PCB-54	100.00	5.23e+07	0.81 y	25:38	-	1.13	
84	Unk	PCB-104	100.00	4.01e+07	1.61 y	30:06	-	1.22	
85	Unk	PCB-96	100.00	3.55e+07	1.63 y	31:18	-	1.08	
86	Unk	PCB-103	100.00	3.01e+07	1.61 y	31:48	-	0.917	
87	Unk	PCB-100	100.00	3.11e+07	1.62 y	32:08	-	0.949	
88	Unk	PCB-94	100.00	2.58e+07	1.62 y	32:35	-	0.787	
89	Unk	PCB-98	200.00	6.39e+07	1.65 y	33:03	-	0.974	Co-elute PCB 102
90	Unk	PCB-102	200.00	6.39e+07	1.65 y	33:03	-	0.974	Co-elute PCB 98
91	Unk	PCB-95	100.00	2.91e+07	1.57 y	33:05	-	0.887	
92	Unk	PCB-93	100.00	2.56e+07	1.61 y	33:09	-	0.781	
93	Unk	PCB-88	200.00	5.49e+07	1.63 y	33:31	-	0.837	Co-elute PCB 91
94	Unk	PCB-91	200.00	5.49e+07	1.63 y	33:31	-	0.837	Co-elute PCB 88
95	Unk	PCB-121	100.00	3.91e+07	1.61 y	33:32	-	1.19	
96	IS	13C-PCB-104	100.00	3.28e+07	1.63 y	30:04	-	0.710	
97	C/Up	13C-PCB-28	100.00	9.13e+07	1.06 y	26:43	-	1.98	
98	RS	13C-PCB-52	100.00	4.62e+07	0.80 y	28:59	4.62e+05	-	
99	Unk	PCB-56	200.00	1.32e+08	0.77 y	34:01	-	1.08	Co-elute PCB 60
100	Unk	PCB-60	200.00	1.32e+08	0.77 y	34:01	-	1.08	Co-elute PCB 56

101	Unk	PCB-79	100.00	6.99e+07	0.81 y	35:04	-	1.14	
102	Unk	PCB-78	100.00	7.00e+07	0.79 y	35:43	-	1.15	
103	Unk	PCB-81	100.00	7.25e+07	0.79 y	36:13	-	1.20	
104	IS	13C-PCB-81	100.00	6.04e+07	0.81 y	36:12	-	1.61	
105	Unk	PCB-77	100.00	7.22e+07	0.81 y	36:47	-	1.17	
106	IS/RT	13C-PCB-77	100.00	6.19e+07	0.81 y	36:46	-	1.65	
107	Unk	PCB-155	100.00	4.13e+07	1.29 y	34:16	-	1.13	
108	Unk	PCB-150	100.00	3.73e+07	1.29 y	35:27	-	1.02	
109	Unk	PCB-152	100.00	3.59e+07	1.32 y	35:54	-	0.982	
110	Unk	PCB-145	100.00	3.64e+07	1.30 y	36:20	-	0.994	
111	Unk	PCB-136	100.00	3.47e+07	1.29 y	36:37	-	0.947	
112	Unk	PCB-148	100.00	2.78e+07	1.31 y	36:44	-	0.761	
113	Unk	PCB-154	100.00	3.28e+07	1.29 y	37:13	-	0.897	
114	IS	13C-PCB-155	100.00	3.66e+07	1.30 y	34:15	-	0.974	
115	C/Up	13C-PCB-111	100.00	4.64e+07	1.62 y	36:21	-	1.24	
116	RS	13C-PCB-101	100.00	3.76e+07	1.60 y	34:41	3.76e+05	-	
117	Unk	PCB-84	200.00	6.91e+07	1.58 y	34:21	-	0.597	Co-elute PCB 92
118	Unk	PCB-92	200.00	6.91e+07	1.58 y	34:21	-	0.597	Co-elute PCB 84
119	Unk	PCB-89	100.00	3.42e+07	1.59 y	34:31	-	0.590	
120	Unk	PCB-90	200.00	7.93e+07	1.58 y	34:42	-	0.684	Co-elute PCB 101
121	Unk	PCB-101	200.00	7.93e+07	1.58 y	34:42	-	0.684	Co-elute PCB 90
122	Unk	PCB-113	100.00	4.59e+07	1.57 y	34:55	-	0.793	
123	Unk	PCB-99	100.00	4.35e+07	1.61 y	35:01	-	0.751	
124	Unk	PCB-119	100.00	4.86e+07	1.58 y	35:28	-	0.839	
125	Unk	PCB-83	200.00	8.02e+07	1.59 y	35:37	-	0.693	Co-elute PCB 112
126	Unk	PCB-112	200.00	8.02e+07	1.59 y	35:37	-	0.693	Co-elute PCB 83
127	Unk	PCB-109	100.00	5.21e+07	1.60 y	35:46	-	0.900	
128	Unk	PCB-97	100.00	4.28e+07	1.57 y	35:57	-	0.738	
129	Unk	PCB-86	100.00	3.78e+07	1.56 y	36:07	-	0.653	
130	Unk	PCB-125	300.00	1.32e+08	1.59 y	36:12	-	0.760	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	1.32e+08	1.59 y	36:12	-	0.760	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	1.32e+08	1.59 y	36:12	-	0.760	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.19e+08	1.58 y	36:22	-	1.02	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.19e+08	1.58 y	36:22	-	1.02	Co-elute PCB 111
135	Unk	PCB-85	200.00	8.27e+07	1.59 y	36:29	-	0.714	Co-elute PCB 116
136	Unk	PCB-116	200.00	8.27e+07	1.59 y	36:29	-	0.714	Co-elute PCB 85
137	Unk	PCB-120	100.00	4.98e+07	1.57 y	36:42	-	0.860	
138	Unk	PCB-110	100.00	5.80e+07	1.59 y	36:50	-	1.00	
139	Unk	PCB-82	100.00	2.92e+07	1.55 y	37:25	-	0.504	
140	Unk	PCB-124	100.00	6.04e+07	1.56 y	38:06	-	1.04	
141	Unk	PCB-108	200.00	1.21e+08	1.56 y	38:15	-	1.05	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.21e+08	1.56 y	38:15	-	1.05	Co-elute PCB 108
143	Unk	PCB-123	100.00	7.62e+07	1.57 y	38:24	-	1.45	
144	IS	13C-PCB-123	100.00	5.26e+07	1.58 y	38:23	-	1.31	
145	Unk	PCB-118	200.00	1.33e+08	1.58 y	38:36	-	1.05	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.33e+08	1.58 y	38:36	-	1.05	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	6.31e+07	1.63 y	38:33	-	1.57	
148	Unk	PCB-114	100.00	6.63e+07	1.57 y	39:12	-	1.13	
149	IS	13C-PCB-114	100.00	5.85e+07	1.62 y	39:10	-	1.46	
150	Unk	PCB-122	100.00	6.48e+07	1.60 y	39:19	-	1.12	
151	Unk	PCB-105	100.00	6.43e+07	1.58 y	40:01	-	1.12	
152	IS	13C-PCB-105	100.00	5.74e+07	1.65 y	39:60	-	1.43	
153	Unk	PCB-127	100.00	6.15e+07	1.60 y	40:21	-	1.06	
154	Unk	PCB-126	100.00	6.34e+07	1.58 y	42:10	-	1.15	
155	IS	13C-PCB-126	100.00	5.50e+07	1.65 y	42:08	-	1.37	

156	Unk	PCB-151	100.00	3.08e+07	1.27 y	37:50	-	0.663	
157	Unk	PCB-135	100.00	3.52e+07	1.26 y	38:01	-	0.760	
158	Unk	PCB-144	100.00	3.46e+07	1.28 y	38:08	-	0.747	
159	Unk	PCB-147	100.00	3.95e+07	1.27 y	38:16	-	0.852	
160	Unk	PCB-139	200.00	7.94e+07	1.27 y	38:31	-	0.856	Co-elute PCB 149
161	Unk	PCB-149	200.00	7.94e+07	1.27 y	38:31	-	0.856	Co-elute PCB 139
162	Unk	PCB-140	100.00	3.99e+07	1.26 y	38:41	-	0.861	
163	Unk	PCB-143	200.00	7.51e+07	1.28 y	39:06	-	0.810	Co-elute PCB 134
164	Unk	PCB-134	200.00	7.51e+07	1.28 y	39:06	-	0.810	Co-elute PCB 143
165	Unk	PCB-131	200.00	7.47e+07	1.27 y	39:22	-	0.805	Co-elute PCB 133
166	Unk	PCB-133	200.00	7.47e+07	1.27 y	39:22	-	0.805	Co-elute PCB 131
167	Unk	PCB-142	100.00	3.41e+07	1.27 y	39:32	-	0.736	
168	Unk	PCB-165	200.00	9.10e+07	1.26 y	39:43	-	0.980	Co-elute PCB 146
169	Unk	PCB-146	200.00	9.10e+07	1.26 y	39:43	-	0.980	Co-elute PCB 165
170	Unk	PCB-161	200.00	8.21e+07	1.28 y	39:58	-	0.885	Co-elute PCB 132
171	Unk	PCB-132	200.00	8.21e+07	1.28 y	39:58	-	0.885	Co-elute PCB 161
172	Unk	PCB-153	100.00	4.54e+07	1.27 y	40:08	-	0.979	
173	Unk	PCB-168	100.00	5.21e+07	1.26 y	40:20	-	1.12	
174	Unk	PCB-141	100.00	3.99e+07	1.27 y	40:49	-	0.860	
175	Unk	PCB-137	100.00	3.57e+07	1.26 y	41:12	-	0.770	
176	Unk	PCB-130	100.00	4.00e+07	1.28 y	41:17	-	0.863	
177	Unk	PCB-138	300.00	1.51e+08	1.28 y	41:39	-	1.09	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.51e+08	1.28 y	41:39	-	1.09	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.51e+08	1.28 y	41:39	-	1.09	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.05e+08	1.23 y	41:53	-	1.13	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.05e+08	1.23 y	41:53	-	1.13	Co-elute PCB 158
182	Unk	PCB-129	100.00	3.37e+07	1.27 y	42:07	-	0.727	
183	Unk	PCB-166	100.00	4.85e+07	1.25 y	42:33	-	1.05	
184	Unk	PCB-159	100.00	5.16e+07	1.26 y	42:51	-	1.11	
185	Unk	PCB-128	200.00	8.84e+07	1.26 y	43:07	-	0.953	Co-elute PCB 162
186	Unk	PCB-162	200.00	8.84e+07	1.26 y	43:07	-	0.953	Co-elute PCB 128
187	Unk	PCB-167	100.00	4.92e+07	1.26 y	43:31	-	1.05	
188	IS	13C-PCB-167	100.00	4.69e+07	1.29 y	43:29	-	1.17	
189	Unk	PCB-156	100.00	4.77e+07	1.26 y	44:43	-	1.06	
190	IS	13C-PCB-156	100.00	4.50e+07	1.28 y	44:43	-	1.12	
191	Unk	PCB-157	100.00	5.48e+07	1.27 y	44:59	-	1.13	
192	IS	13C-PCB-157	100.00	4.85e+07	1.25 y	44:58	-	1.21	
193	Unk	PCB-169	100.00	4.71e+07	1.27 y	46:51	-	1.04	
194	IS	13C-PCB-169	100.00	4.52e+07	1.26 y	46:50	-	1.13	
195	Unk	PCB-188	100.00	4.33e+07	1.07 y	39:45	-	1.14	
196	IS	13C-PCB-188	100.00	3.81e+07	1.09 y	39:43	-	0.950	

197	Unk	PCB-184	100.00	4.33e+07	1.07 y	40:11	-	1.18		
198	Unk	PCB-179	100.00	4.01e+07	1.07 y	40:54	-	1.09		
199	Unk	PCB-176	100.00	3.93e+07	1.05 y	41:22	-	1.07		
200	Unk	PCB-186	100.00	3.96e+07	1.07 y	41:57	-	1.08		
201	Unk	PCB-178	100.00	2.88e+07	1.05 y	42:23	-	0.782		
202	Unk	PCB-175	100.00	2.98e+07	1.08 y	42:43	-	0.810		
203	Unk	PCB-187	200.00	6.81e+07	1.07 y	42:54	-	0.927	Co-elute PCB 182	
204	Unk	PCB-182	200.00	6.81e+07	1.07 y	42:54	-	0.927	Co-elute PCB 187	
205	Unk	PCB-183	100.00	3.30e+07	1.07 y	43:12	-	0.899		
206	Unk	PCB-185	100.00	3.11e+07	1.07 y	43:49	-	0.845		
207	Unk	PCB-174	100.00	3.24e+07	1.05 y	44:10	-	0.881		
208	Unk	PCB-181	100.00	3.06e+07	1.06 y	44:17	-	0.831		
209	Unk	PCB-177	100.00	2.69e+07	1.07 y	44:25	-	0.733		
210	Unk	PCB-171	100.00	2.99e+07	1.06 y	44:41	-	0.813		
211	Unk	PCB-173	100.00	2.74e+07	1.07 y	45:06	-	0.746		
212	Unk	PCB-172	100.00	2.74e+07	1.08 y	45:31	-	0.747		
213	Unk	PCB-192	100.00	3.76e+07	1.09 y	45:41	-	1.02		
214	Unk	PCB-180	100.00	3.91e+07	1.06 y	45:52	-	1.06		
215	Unk	PCB-193	100.00	3.94e+07	1.10 y	46:00	-	1.07		
216	Unk	PCB-191	100.00	3.78e+07	1.05 y	46:13	-	1.03		
217	Unk	PCB-170	100.00	2.68e+07	1.07 y	47:08	-	0.730		
218	Unk	PCB-190	100.00	3.67e+07	1.08 y	47:18	-	0.998		
219	Unk	PCB-189	100.00	3.91e+07	1.07 y	48:30	-	1.10		
220	IS	13C-PCB-189	100.00	3.54e+07	1.07 y	48:28	-	0.882		
221	Unk	PCB-202	150.00	4.04e+07	0.90 y	44:51	-	0.968		
222	Unk	PCB-201	150.00	3.83e+07	0.91 y	45:19	-	0.916		
223	Unk	PCB-204	150.00	4.05e+07	0.92 y	45:27	-	0.969		
224	Unk	PCB-197	150.00	4.27e+07	0.91 y	45:44	-	1.02		
225	Unk	PCB-200	150.00	3.91e+07	0.91 y	46:28	-	0.936		
226	Unk	PCB-198	150.00	2.70e+07	0.89 y	47:39	-	0.647		
227	Unk	PCB-199	150.00	3.21e+07	0.91 y	47:44	-	0.770		
228	Unk	PCB-203	300.00	6.56e+07	0.91 y	47:59	-	0.785	Co-elute PCB 196	
229	Unk	PCB-196	300.00	6.56e+07	0.91 y	47:59	-	0.785	Co-elute PCB 203	
230	IS	13C-PCB-202	100.00	2.78e+07	0.91 y	44:51	-	0.694		
231	C/Up	13C-PCB-178	100.00	2.91e+07	1.11 y	42:23	-	0.726		
232	RS	13C-PCB-138	100.00	4.01e+07	1.29 y	41:37	4.01e+05	-		
233	Unk	PCB-195	150.00	5.86e+07	0.87 y	49:04	-	0.751		
234	Unk	PCB-194	150.00	6.40e+07	0.91 y	49:53	-	0.821		
235	Unk	PCB-205	150.00	8.67e+07	0.93 y	50:08	-	1.11		
236	IS	13C-PCB-205	100.00	5.20e+07	0.90 y	50:07	-	1.30		
237	Unk	PCB-208	150.00	6.57e+07	1.36 y	49:11	-	0.991		
238	IS	13C-PCB-208	100.00	4.42e+07	0.80 y	49:11	-	1.11		
239	Unk	PCB-207	150.00	5.91e+07	1.36 y	49:29	-	0.997		
240	Unk	PCB-206	150.00	5.33e+07	1.36 y	51:20	-	1.02		
241	IS	13C-PCB-206	100.00	3.49e+07	0.81 y	51:19	-	0.872		
242	Unk	PCB-209	150.00	6.74e+07	1.20 y	52:31	-	1.09		
243	IS	13C-PCB-209	100.00	4.10e+07	1.19 y	52:30	-	1.03		
244	RS	13C-PCB-194	100.00	4.00e+07	0.92 y	49:52	4.00e+05	-		

Analyst: _____ Date: 8/1/18

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/1/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 01AUG18Z Sam:1 Analysis Date: 1-AUG-18 09:52:43

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.16	2.66-3.60	y	48.5	37.5 - 62.5
PCB-3	M/M+2	3.21	2.66-3.60	y	50.0	37.5 - 62.5
PCB-4	M/M+2	1.55	1.33-1.79	y	45.6	37.5 - 62.5
PCB-15	M/M+2	1.58	1.33-1.79	y	49.1	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	49.9	37.5 - 62.5
PCB-37	M/M+2	1.09	0.88-1.20	y	47.6	37.5 - 62.5
PCB-54	M/M+2	0.81	0.65-0.89	y	51.5	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	51.5	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	52.0	37.5 - 62.5
PCB-104	M+2/M+4	1.61	1.32-1.78	y	47.7	37.5 - 62.5
PCB-105	M+2/M+4	1.65	1.32-1.78	y	51.8	37.5 - 62.5
PCB-114	M+2/M+4	1.55	1.32-1.78	y	50.5	37.5 - 62.5
PCB-118	M+2/M+4	1.58	1.32-1.78	y	55.6	37.5 - 62.5
PCB-123	M+2/M+4	1.58	1.32-1.78	y	40.5	37.5 - 62.5
PCB-126	M+2/M+4	1.60	1.32-1.78	y	49.2	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	51.8	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	53.1	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	1.27	1.05-1.43	y	52.1	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	52.9	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	47.3	37.5 - 62.5
PCB-189	M+2/M+4	1.08	0.89-1.21	y	51.5	37.5 - 62.5
PCB-202	M+2/M+4	0.90	0.76-1.02	y	55.5	37.5 - 62.5
PCB-205	M+2/M+4	0.92	0.76-1.02	y	50.1	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	47.9	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	50.1	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	52.9	37.5 - 62.5

Analyst: _____ Date: 8/1/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/1/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 01AUG18Z Sam:1 Analysis Date: 1-AUG-18 09:52:43

	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	3.17	2.66-3.60	y	98.2	50.0 - 145
13C-PCB-3	M/M+2	3.25	2.66-3.60	y	98.2	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	105	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	92.0	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	99.7	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	95.8	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	103	50.0 - 145
13C-PCB-77	M/M+2	0.83	0.65-0.89	y	89.6	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	88.2	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	1.59	1.32-1.78	y	99.4	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	101	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	104	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	96.8	50.0 - 145
13C-PCB-126	M+2/M+4	1.64	1.32-1.78	y	96.6	50.0 - 145
13C-PCB-155	M+2/M+4	1.31	1.05-1.43	y	99.6	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	96.9	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	1.26	1.05-1.43	y	99.5	50.0 - 145
13C-PCB-169	M+2/M+4	1.26	1.05-1.43	y	102	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	116	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	97.5	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	108	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	102	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	0.78	0.65-0.89	y	106	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	97.9	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.09	0.88-1.20	y	91.9	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	98.3	75.0 - 125
13C-PCB-178	M+2/M+4	1.11	0.89-1.21	y	103	75.0 - 125

Analyst: _____ Date: 8/1/18

FAL ID: ST080118Z1 Filename: 01AUG18Z Sam:1 Acquired: 1-AUG-18 09:52:43 ICal: DAILY209FAL4-8-1-18
Client ID: 1668 CS3 170805A ConCal: ST080118Z1 EndCal: ST080118Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.78e+07	3.16 y	14:33	1.14	48.5		2.50	-	-	*	
13C-PCB-1	6.82e+07	3.17 y	14:32	1.01	98.2		2.50				98.2
PCB-3	3.89e+07	3.21 y	17:00	1.13	50.0		2.50	-	-	*	
13C-PCB-3	6.91e+07	3.25 y	16:59	1.02	98.2		2.50				98.2
PCB-4	2.90e+07	1.55 y	18:14	1.33	45.6		2.50	-	-	*	
13C-PCB-4	4.77e+07	1.60 y	18:12	0.66	105		2.50				105
PCB-15	4.03e+07	1.58 y	23:48	1.24	49.1		2.50	-	-	*	
13C-PCB-15	6.63e+07	1.61 y	23:47	1.05	92.0		2.50				92.0
PCB-19	1.84e+07	1.04 y	22:08	1.14	49.9		2.50	-	-	*	
13C-PCB-19	3.22e+07	1.07 y	22:06	0.47	99.7		2.50				99.7
13C-PCB-9	6.89e+07	1.61 y	19:54	-	75.7		2.50				
PCB-37	3.39e+07	1.09 y	30:28	1.28	47.6		2.50	-	-	*	
13C-PCB-37	5.55e+07	1.07 y	30:27	1.72	95.8		2.50				95.8
PCB-54	2.23e+07	0.81 y	25:40	1.10	51.5		2.50	-	-	*	
13C-PCB-54	3.93e+07	0.79 y	25:39	1.13	103		2.50				103
PCB-104	1.55e+07	1.61 y	30:07	1.22	47.7		2.50	-	-	*	
13C-PCB-104	2.66e+07	1.61 y	30:06	0.71	111		2.50				111
13C-PCB-28	6.12e+07	1.09 y	26:45	1.98	91.9		2.50				91.9
13C-PCB-52	3.37e+07	0.80 y	28:60	-	72.9		2.50				
PCB-81	2.54e+07	0.79 y	36:15	1.20	52.0		2.50	-	-	*	
13C-PCB-81	4.06e+07	0.81 y	36:13	1.61	88.2		2.50				88.2
PCB-77	2.54e+07	0.79 y	36:50	1.17	51.5		2.50	-	-	*	
13C-PCB-77	4.23e+07	0.83 y	36:47	1.65	89.6		2.50				89.6
PCB-155	1.62e+07	1.28 y	34:17	1.13	51.8		2.50	-	-	*	
13C-PCB-155	2.78e+07	1.31 y	34:16	0.97	99.6		2.50				99.6
13C-PCB-111	3.48e+07	1.61 y	36:22	1.24	98.3		2.50				98.3
13C-PCB-101	2.86e+07	1.61 y	34:42	-	76.2		2.50				
PCB-123	2.05e+07	1.58 y	38:26	1.45	40.5		2.50	-	-	*	
13C-PCB-123	3.50e+07	1.61 y	38:24	1.31	96.8		2.50				96.8
PCB-118	2.62e+07	1.58 y	38:36	1.05	55.6		2.50	-	-	*	
13C-PCB-118	4.48e+07	1.61 y	38:34	1.57	104		2.50				104
PCB-114	2.32e+07	1.55 y	39:14	1.13	50.5		2.50	-	-	*	
13C-PCB-114	4.05e+07	1.58 y	39:12	1.46	101		2.50				101
PCB-105	2.27e+07	1.65 y	40:03	1.12	51.8		2.50	-	-	*	
13C-PCB-105	3.92e+07	1.59 y	40:01	1.43	99.4		2.50				99.4
PCB-126	2.07e+07	1.60 y	42:11	1.15	49.2		2.50	-	-	*	
13C-PCB-126	3.65e+07	1.64 y	42:10	1.37	96.6		2.50				96.6
PCB-167	1.75e+07	1.27 y	43:32	1.05	52.1		2.50	-	-	*	
13C-PCB-167	3.20e+07	1.26 y	43:30	1.17	99.5		2.50				99.5
PCB-156	1.69e+07	1.27 y	44:45	1.06	53.1		2.50	-	-	*	
13C-PCB-156	2.99e+07	1.28 y	44:45	1.12	96.9		2.50				96.9
PCB-157	1.86e+07	1.27 y	45:01	1.13	48.2		2.50	-	-	*	
13C-PCB-157	3.42e+07	1.27 y	44:59	1.21	103		2.50				103
PCB-169	1.74e+07	1.27 y	46:53	1.04	52.9		2.50	-	-	*	
13C-PCB-169	3.16e+07	1.26 y	46:51	1.13	102		2.50				102
PCB-188	1.63e+07	1.06 y	39:47	1.14	47.3		2.50	-	-	*	
13C-PCB-188	3.03e+07	1.09 y	39:45	0.95	116		2.50				116
PCB-189	1.35e+07	1.08 y	48:32	1.10	51.5		2.50	-	-	*	
13C-PCB-189	2.37e+07	1.08 y	48:30	0.88	97.5		2.50				97.5
PCB-202	1.11e+07	0.90 y	44:53	0.97	55.5		2.50	-	-	*	
13C-PCB-202	2.06e+07	0.93 y	44:51	0.69	108		2.50				108
13C-PCB-178	2.07e+07	1.11 y	42:25	0.73	103		2.50				103
13C-PCB-138	2.76e+07	1.26 y	41:39	-	68.6		2.50				

FAL ID: ST080118Z1 Filename: 01AUG18Z Sam:1 Acquired: 1-AUG-18 09:52:43 ICal: DAILY209FAL4-8-1-18
Client ID: 1668 CS3 170805A ConCal: ST080118Z1 EndCal: ST080118Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	1.97e+07	0.92 y	50:10	1.11	50.1	2.50	-	-	*	
13C-PCB-205	3.54e+07	0.91 y	50:08	1.30	102	2.50				102
PCB-208	1.56e+07	1.36 y	49:12	0.99	50.1	2.50	-	-	*	
13C-PCB-208	3.15e+07	0.78 y	49:11	1.11	106	2.50				106
PCB-206	1.25e+07	1.35 y	51:20	1.02	47.9	2.50	-	-	*	
13C-PCB-206	2.56e+07	0.79 y	51:19	0.87	110	2.50				110
PCB-209	1.56e+07	1.19 y	52:32	1.09	52.9	2.50	-	-	*	
13C-PCB-209	2.69e+07	1.21 y	52:31	1.03	97.9	2.50				97.9
13C-PCB-194	2.68e+07	0.92 y	49:53	-	67.0	2.50				

Analyst: _____ Date: 8/1/18

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/1/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 01AUG18Z Sam:14 Analysis Date: 1-AUG-18 22:33:31

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.23	2.66-3.60	y	50.9	37.5 - 62.5
PCB-3	M/M+2	3.13	2.66-3.60	y	50.8	37.5 - 62.5
PCB-4	M/M+2	1.55	1.33-1.79	y	47.9	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	50.3	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	1.07	0.88-1.20	y	49.5	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	53.4	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	0.79	0.65-0.89	y	53.3	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	48.1	37.5 - 62.5
PCB-105	M+2/M+4	1.61	1.32-1.78	y	51.6	37.5 - 62.5
PCB-114	M+2/M+4	1.56	1.32-1.78	y	51.2	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	55.2	37.5 - 62.5
PCB-123	M+2/M+4	1.55	1.32-1.78	y	40.8	37.5 - 62.5
PCB-126	M+2/M+4	1.56	1.32-1.78	y	50.7	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	51.8	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	52.7	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	47.5	37.5 - 62.5
PCB-167	M+2/M+4	1.29	1.05-1.43	y	53.4	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	53.6	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	47.4	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	51.4	37.5 - 62.5
PCB-202	M+2/M+4	0.90	0.76-1.02	y	54.8	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	49.0	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	47.1	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	49.7	37.5 - 62.5
PCB-209	M+4/M+6	1.17	0.99-1.33	y	54.1	37.5 - 62.5

Analyst: [signature] Date: 8/2/18

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/1/18

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 01AUG18Z Sam:14 Analysis Date: 1-AUG-18 22:33:31

	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	3.13	2.66-3.60	y	95.5	50.0 - 145
13C-PCB-3	M/M+2	3.25	2.66-3.60	y	94.2	50.0 - 145
13C-PCB-4	M/M+2	1.64	1.33-1.79	y	100	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	95.6	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	96.1	50.0 - 145
13C-PCB-37	M/M+2	1.08	0.88-1.20	y	103	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	107	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	99.1	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	96.0	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	1.64	1.32-1.78	y	113	50.0 - 145
13C-PCB-114	M+2/M+4	1.63	1.32-1.78	y	111	50.0 - 145
13C-PCB-118	M+2/M+4	1.63	1.32-1.78	y	113	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	101	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	109	50.0 - 145
13C-PCB-155	M+2/M+4	1.30	1.05-1.43	y	101	50.0 - 145
13C-PCB-156	M+2/M+4	1.26	1.05-1.43	y	104	50.0 - 145
13C-PCB-157	M+2/M+4	1.24	1.05-1.43	y	116	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	105	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	109	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	117	50.0 - 145
13C-PCB-189	M+2/M+4	1.10	0.89-1.21	y	105	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	111	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	107	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	109	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	103	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	93.2	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.08	0.88-1.20	y	98.4	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	99.4	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	101	75.0 - 125

Analyst: Date: 8/2/18

FAL ID: ST080118Z2 Filename: 01AUG18Z Sam:14 Acquired: 1-AUG-18 22:33:31 ICal: DAILY209FAL4-8-1-18
Client ID: 1668 CS3 170805A ConCal: ST080118Z1 EndCal: ST080118Z2
Results: 11708 GC Column: DB1MS Amount: 1.000

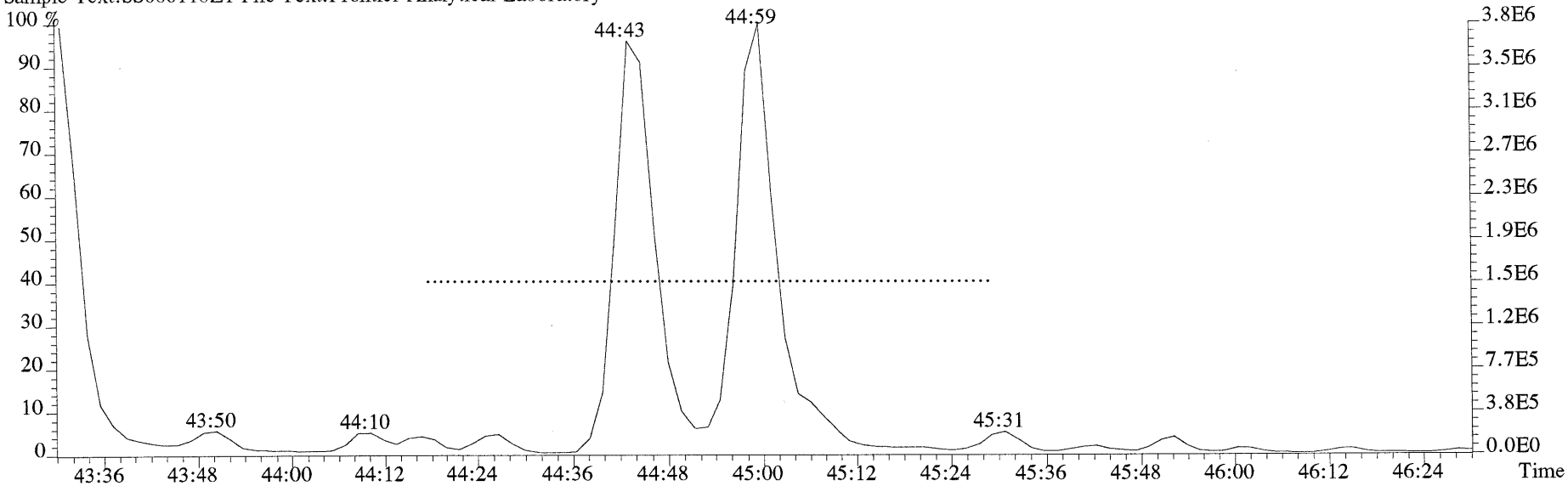
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.42e+07	3.23 y	14:33	1.14	50.9		2.50	-	-	*	
13C-PCB-1	7.60e+07	3.13 y	14:32	1.01	95.5		2.50				95.5
PCB-3	4.34e+07	3.13 y	16:60	1.13	50.8		2.50	-	-	*	
13C-PCB-3	7.59e+07	3.25 y	16:58	1.02	94.2		2.50				94.2
PCB-4	3.34e+07	1.55 y	18:13	1.33	47.9		2.50	-	-	*	
13C-PCB-4	5.24e+07	1.64 y	18:12	0.66	100		2.50				100
PCB-15	4.92e+07	1.57 y	23:46	1.24	50.3		2.50	-	-	*	
13C-PCB-15	7.89e+07	1.61 y	23:46	1.05	95.6		2.50				95.6
PCB-19	2.08e+07	1.07 y	22:07	1.14	51.2		2.50	-	-	*	
13C-PCB-19	3.56e+07	1.07 y	22:05	0.47	96.1		2.50				96.1
13C-PCB-9	7.90e+07	1.64 y	19:54	-	86.8		2.50				
PCB-37	3.99e+07	1.07 y	30:27	1.28	49.5		2.50	-	-	*	
13C-PCB-37	6.27e+07	1.08 y	30:26	1.72	103		2.50				103
PCB-54	2.51e+07	0.80 y	25:39	1.10	53.4		2.50	-	-	*	
13C-PCB-54	4.28e+07	0.81 y	25:37	1.13	107		2.50				107
PCB-104	1.64e+07	1.59 y	30:05	1.22	48.1		2.50	-	-	*	
13C-PCB-104	2.80e+07	1.61 y	30:04	0.71	111		2.50				111
13C-PCB-28	6.89e+07	1.08 y	26:43	1.98	98.4		2.50				98.4
13C-PCB-52	3.54e+07	0.79 y	28:58	-	76.7		2.50				
PCB-81	2.86e+07	0.79 y	36:13	1.20	53.3		2.50	-	-	*	
13C-PCB-81	4.47e+07	0.80 y	36:12	1.61	96.0		2.50				96.0
PCB-77	2.90e+07	0.81 y	36:47	1.17	52.6		2.50	-	-	*	
13C-PCB-77	4.73e+07	0.79 y	36:46	1.65	99.1		2.50				99.1
PCB-155	1.67e+07	1.29 y	34:14	1.13	51.8		2.50	-	-	*	
13C-PCB-155	2.86e+07	1.30 y	34:13	0.97	101		2.50				101
13C-PCB-111	3.56e+07	1.61 y	36:19	1.24	99.4		2.50				99.4
13C-PCB-101	2.90e+07	1.62 y	34:41	-	77.1		2.50				
PCB-123	2.24e+07	1.55 y	38:24	1.45	40.8		2.50	-	-	*	
13C-PCB-123	3.78e+07	1.60 y	38:22	1.31	101		2.50				101
PCB-118	2.93e+07	1.56 y	38:34	1.05	55.2		2.50	-	-	*	
13C-PCB-118	5.04e+07	1.63 y	38:32	1.57	113		2.50				113
PCB-114	2.67e+07	1.56 y	39:12	1.13	51.2		2.50	-	-	*	
13C-PCB-114	4.60e+07	1.63 y	39:10	1.46	111		2.50				111
PCB-105	2.65e+07	1.61 y	40:01	1.12	51.6		2.50	-	-	*	
13C-PCB-105	4.59e+07	1.64 y	39:60	1.43	113		2.50				113
PCB-126	2.47e+07	1.56 y	42:10	1.15	50.7		2.50	-	-	*	
13C-PCB-126	4.24e+07	1.60 y	42:08	1.37	109		2.50				109
PCB-167	1.95e+07	1.29 y	43:30	1.05	53.4		2.50	-	-	*	
13C-PCB-167	3.48e+07	1.28 y	43:29	1.17	105		2.50				105
PCB-156	1.85e+07	1.26 y	44:44	1.06	52.7		2.50	-	-	*	
13C-PCB-156	3.31e+07	1.26 y	44:43	1.12	104		2.50				104
PCB-157	2.14e+07	1.25 y	44:59	1.13	47.5		2.50	-	-	*	
13C-PCB-157	3.99e+07	1.24 y	44:58	1.21	116		2.50				116
PCB-169	1.95e+07	1.27 y	46:51	1.04	53.6		2.50	-	-	*	
13C-PCB-169	3.50e+07	1.25 y	46:51	1.13	109		2.50				109
PCB-188	1.70e+07	1.05 y	39:45	1.14	47.4		2.50	-	-	*	
13C-PCB-188	3.15e+07	1.09 y	39:43	0.95	117		2.50				117
PCB-189	1.49e+07	1.05 y	48:30	1.10	51.4		2.50	-	-	*	
13C-PCB-189	2.63e+07	1.10 y	48:28	0.88	105		2.50				105
PCB-202	1.16e+07	0.90 y	44:51	0.97	54.8		2.50	-	-	*	
13C-PCB-202	2.20e+07	0.91 y	44:49	0.69	111		2.50				111
13C-PCB-178	2.08e+07	1.06 y	42:21	0.73	101		2.50				101
13C-PCB-138	2.84e+07	1.30 y	41:37	-	70.8		2.50				

FAL ID: ST080118Z2 Filename: 01AUG18Z Sam:14 Acquired: 1-AUG-18 22:33:31 ICal: DAILY209FAL4-8-1-18 2 of 2
Client ID: 1668 CS3 170805A ConCal: ST080118Z1 EndCal: ST080118Z2
Results: 11708 GC Column: DB1MS Amount: 1.000

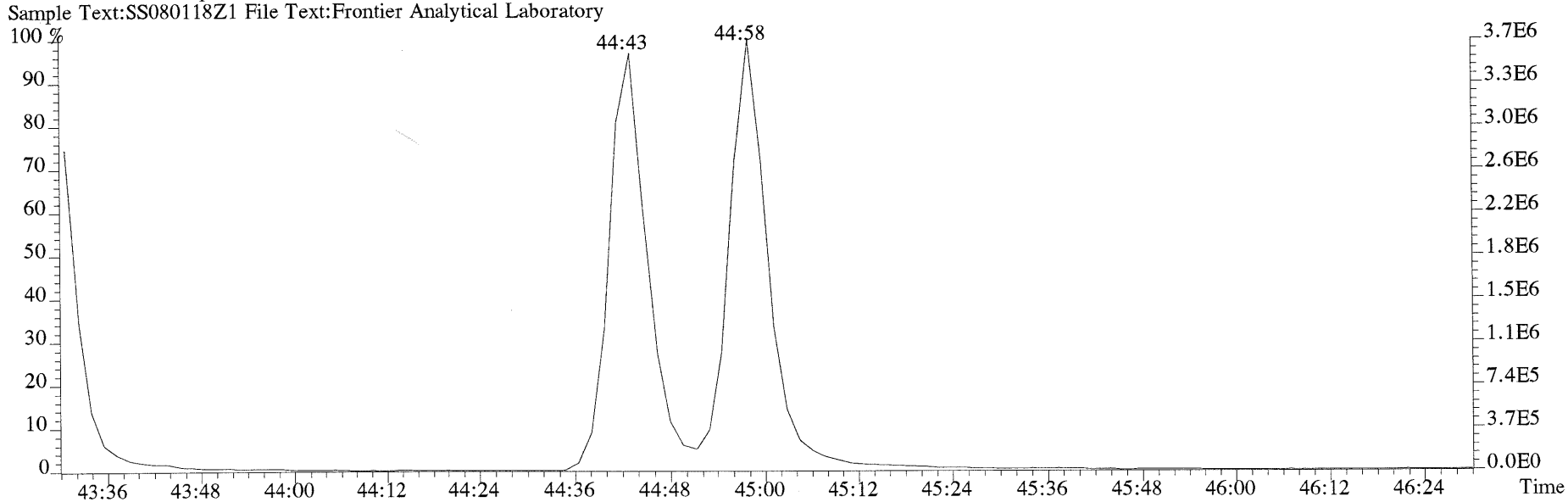
PCB-205	2.33e+07	0.91 y	50:08	1.11	49.0	2.50	-	-	*	
13C-PCB-205	4.27e+07	0.91 y	50:07	1.30	107	2.50				107
PCB-208	1.73e+07	1.35 y	49:10	0.99	49.7	2.50	-	-	*	
13C-PCB-208	3.51e+07	0.81 y	49:09	1.11	103	2.50				103
PCB-206	1.40e+07	1.36 y	51:20	1.02	47.1	2.50	-	-	*	
13C-PCB-206	2.91e+07	0.80 y	51:19	0.87	109	2.50				109
PCB-209	1.74e+07	1.17 y	52:31	1.09	54.1	2.50	-	-	*	
13C-PCB-209	2.94e+07	1.20 y	52:29	1.03	93.2	2.50				93.2
13C-PCB-194	3.07e+07	0.92 y	49:51	-	76.8	2.50				

Analyst: _____ Date: 8/2/18

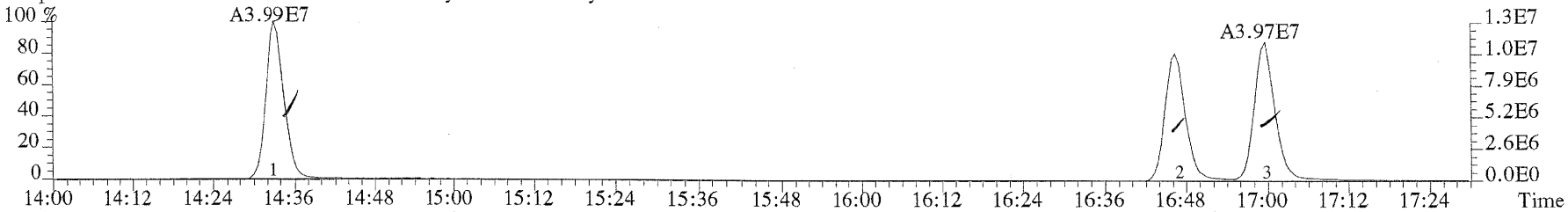
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



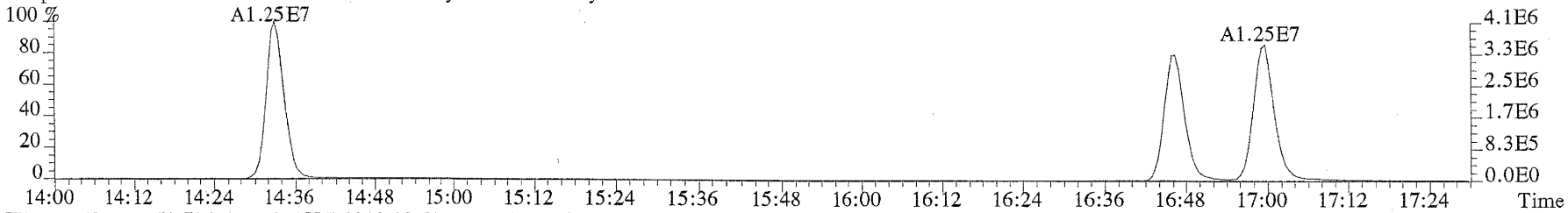
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



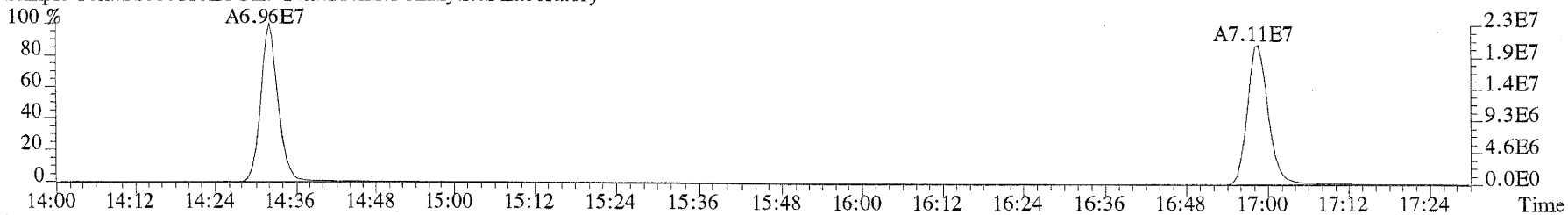
File:01AUG18Z #1-784 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



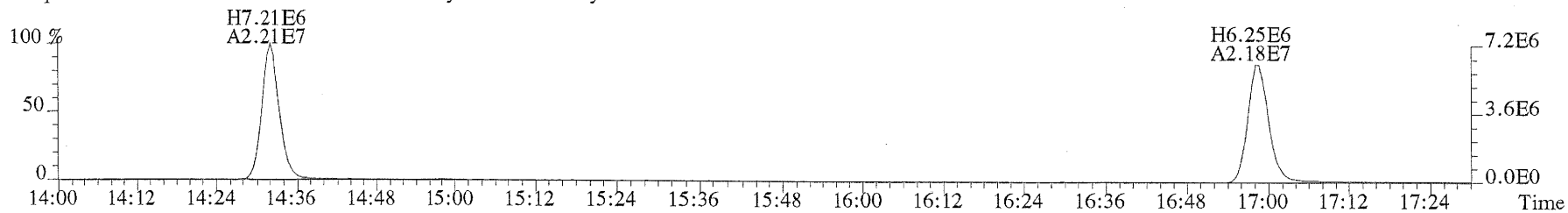
File:01AUG18Z #1-784 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



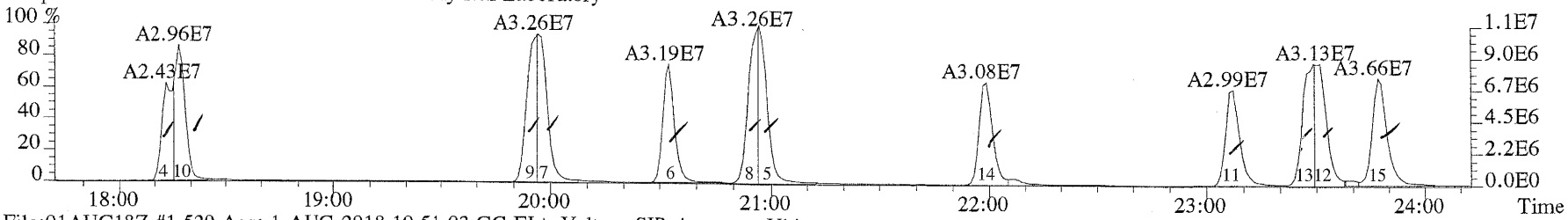
File:01AUG18Z #1-784 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



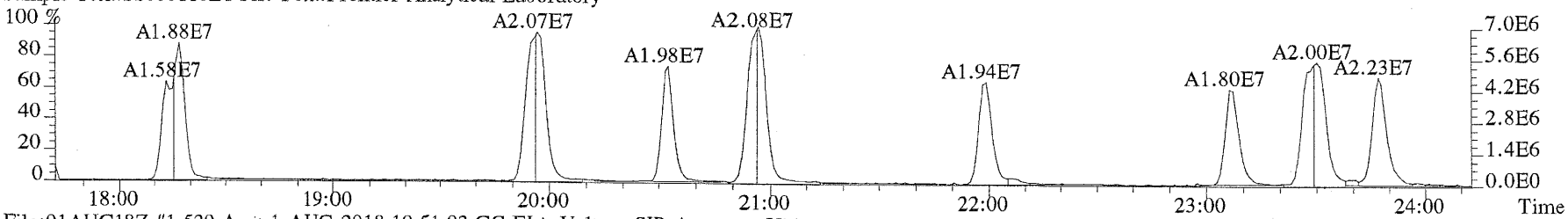
File:01AUG18Z #1-784 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



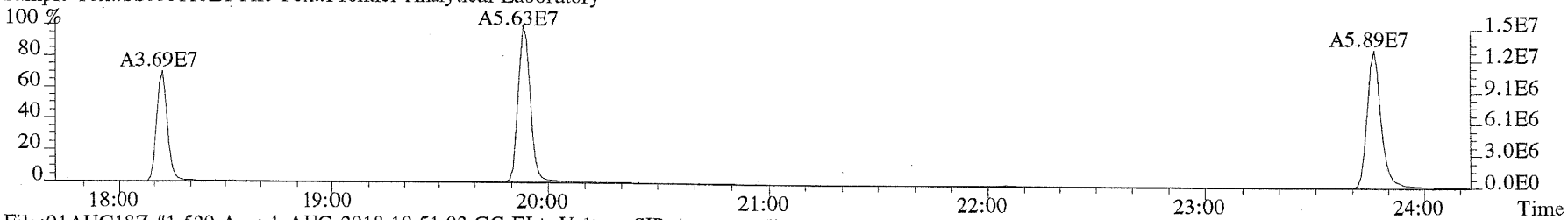
File:01AUG18Z #1-520 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



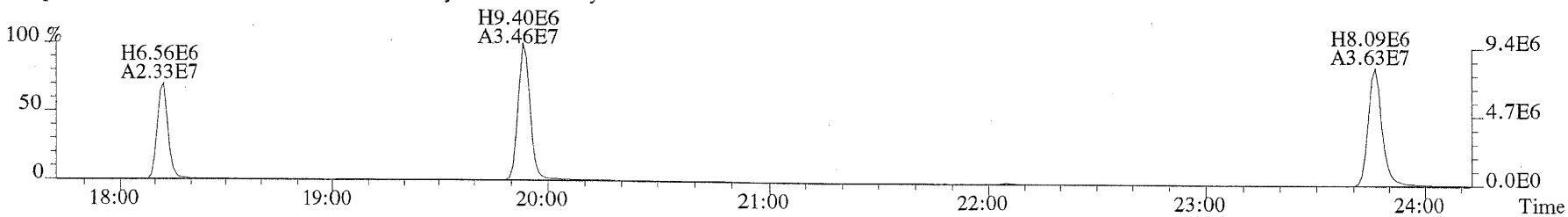
File:01AUG18Z #1-520 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



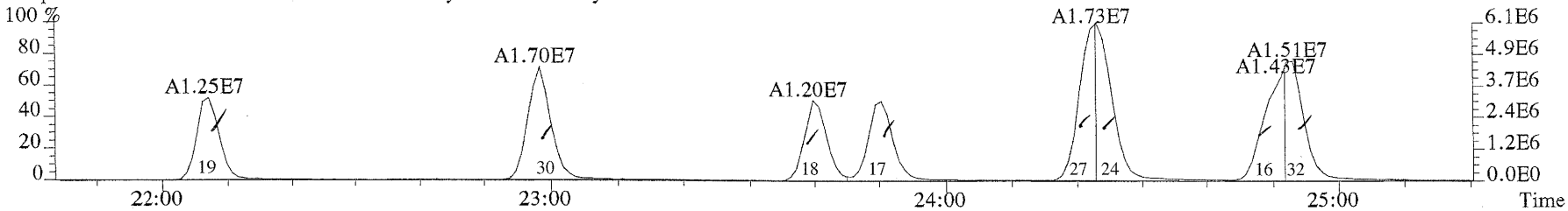
File:01AUG18Z #1-520 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



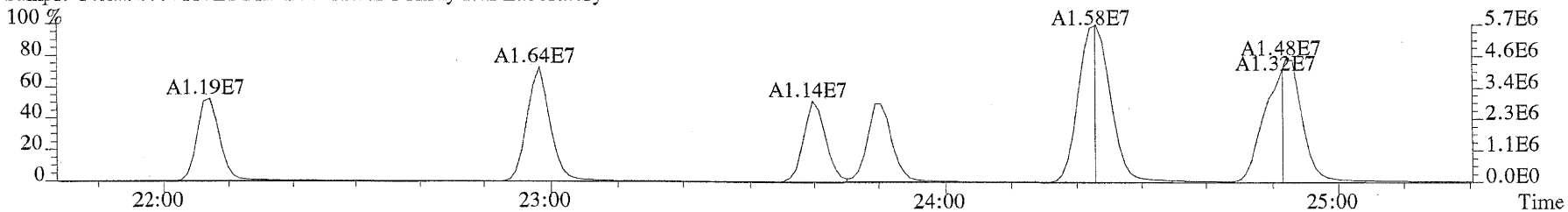
File:01AUG18Z #1-520 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



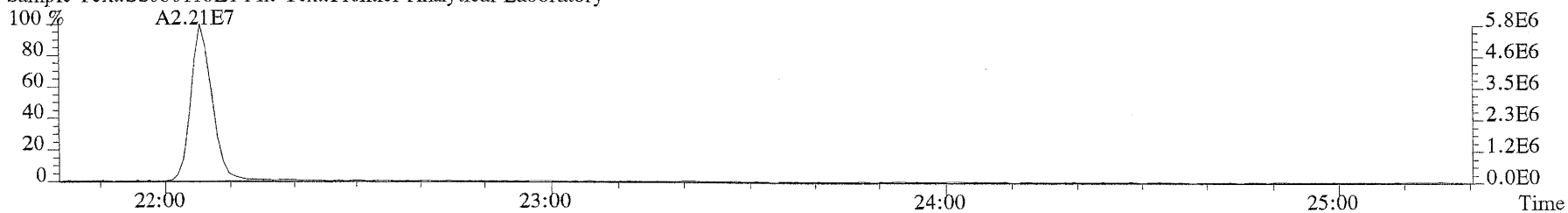
File:01AUG18Z #1-520 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



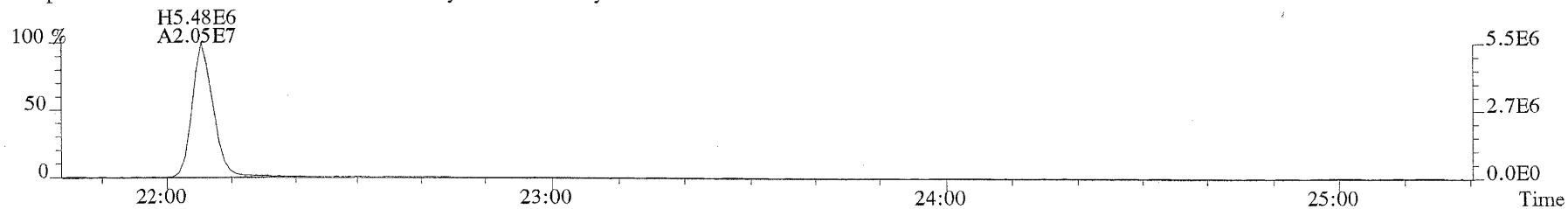
File:01AUG18Z #1-520 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



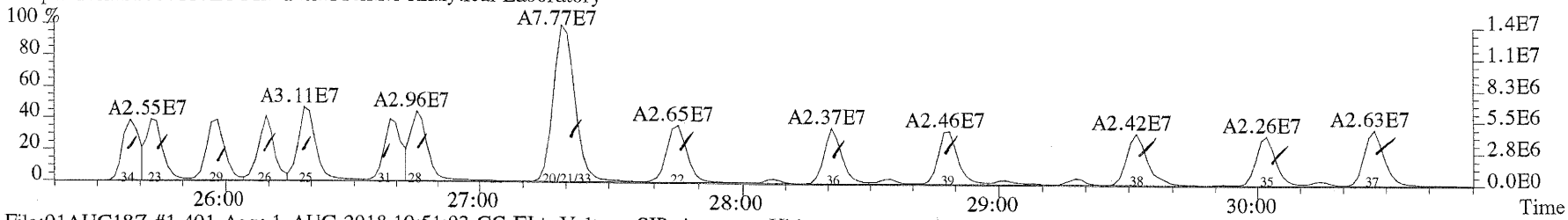
File:01AUG18Z #1-520 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



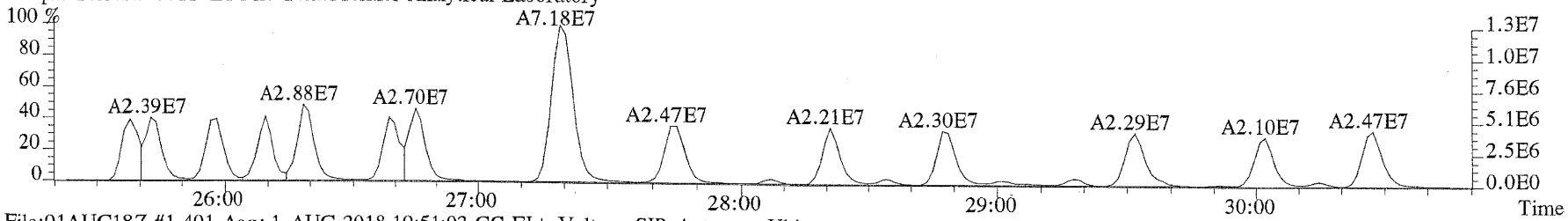
File:01AUG18Z #1-520 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



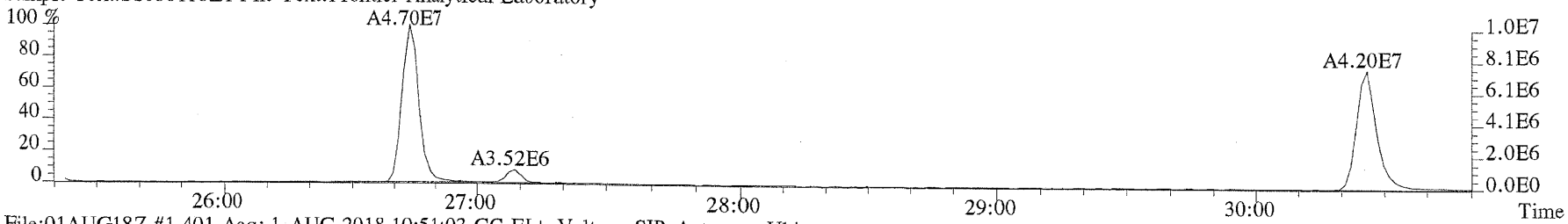
File:01AUG18Z #1-401 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



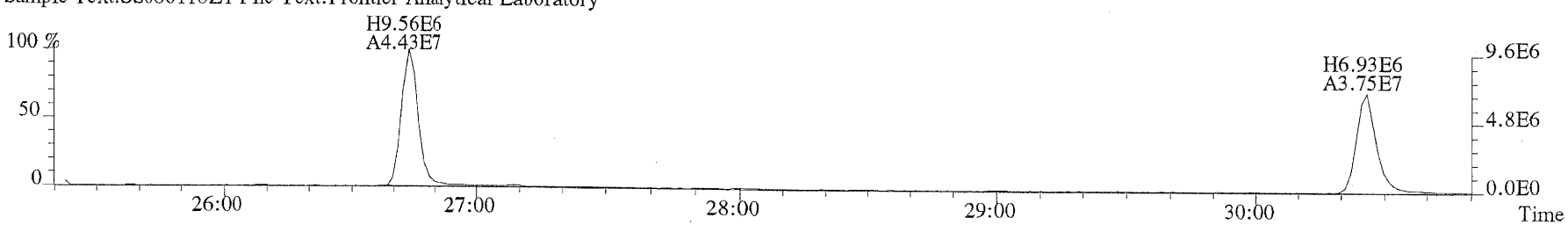
File:01AUG18Z #1-401 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



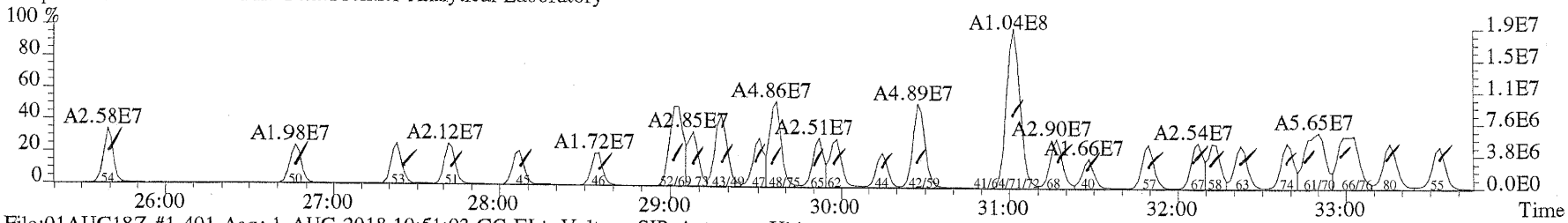
File:01AUG18Z #1-401 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



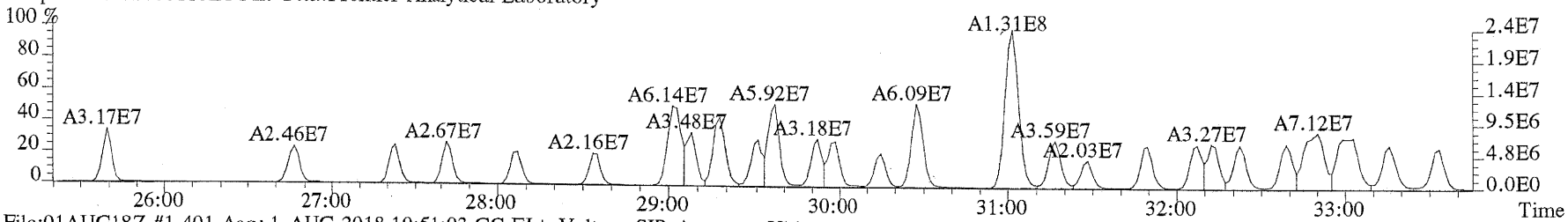
File:01AUG18Z #1-401 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



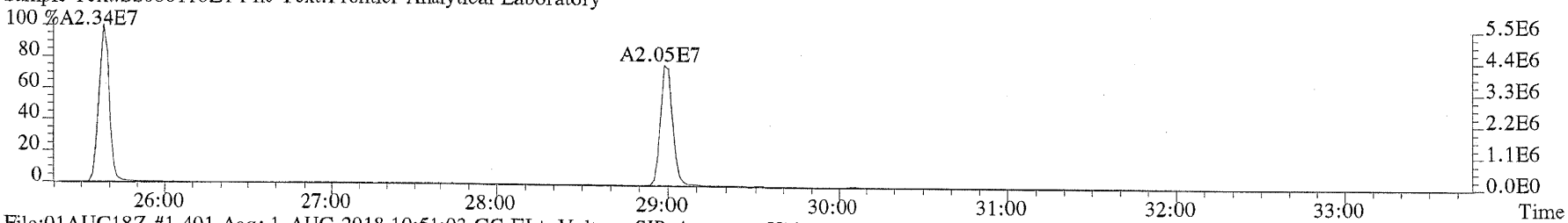
File:01AUG18Z #1-401 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



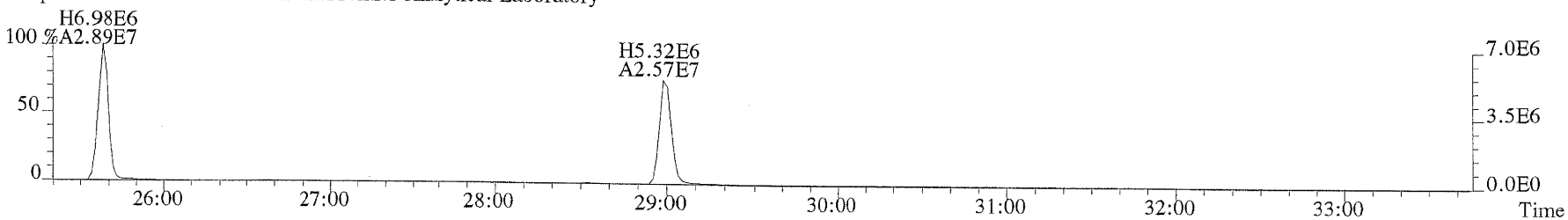
File:01AUG18Z #1-401 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



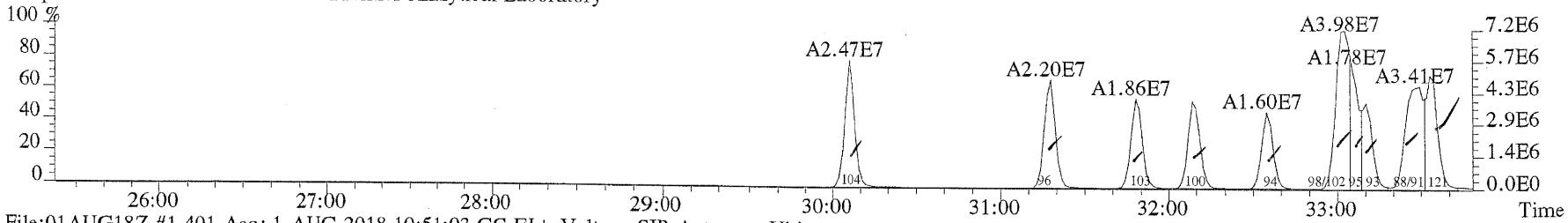
File:01AUG18Z #1-401 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



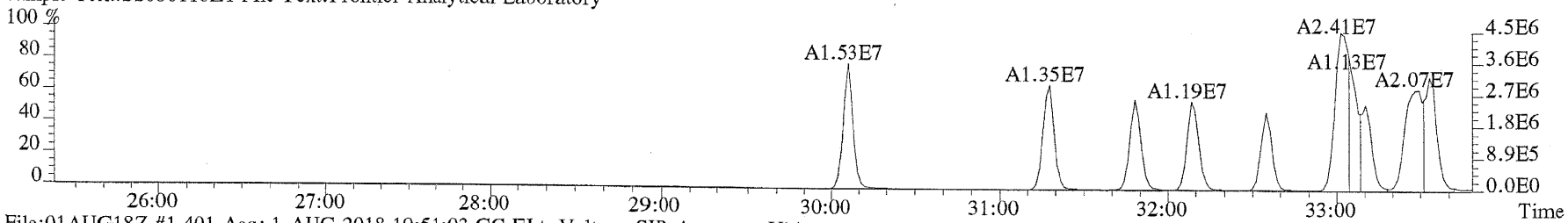
File:01AUG18Z #1-401 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



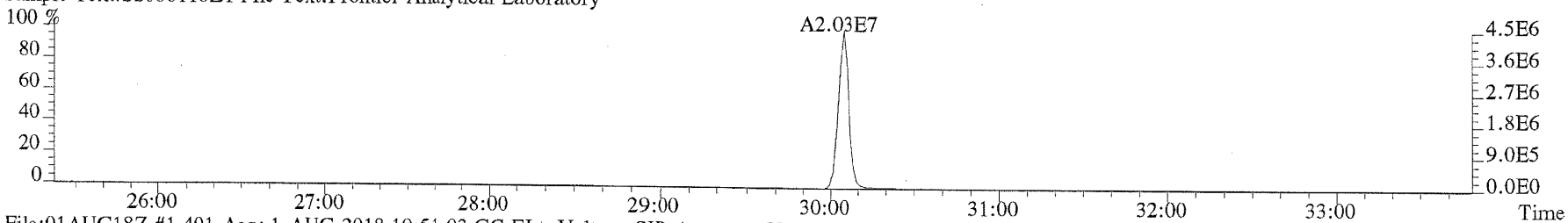
File:01AUG18Z #1-401 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



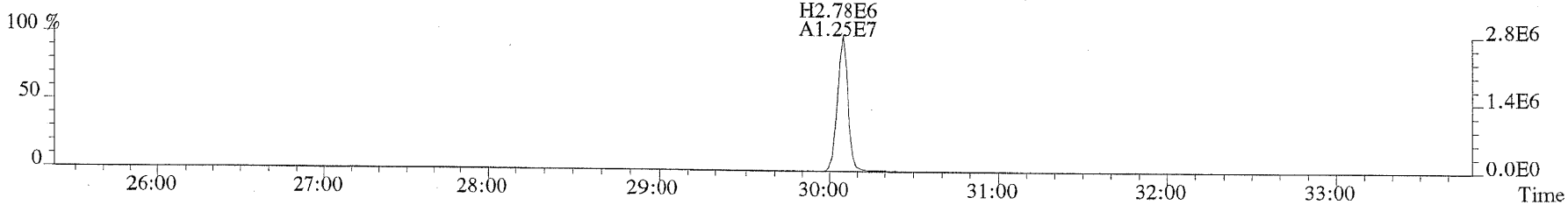
File:01AUG18Z #1-401 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



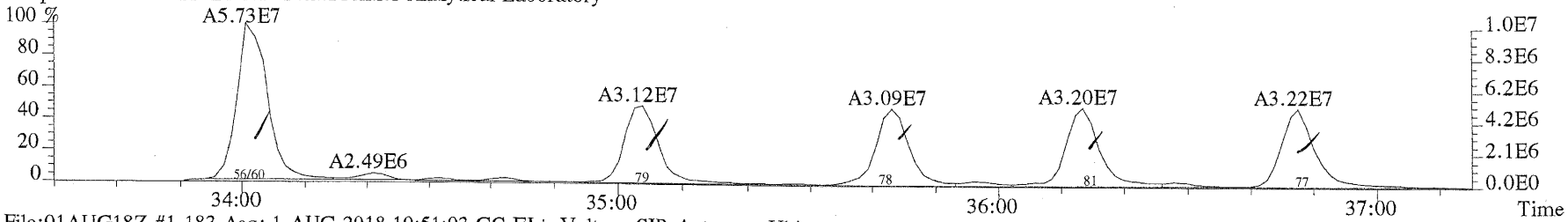
File:01AUG18Z #1-401 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



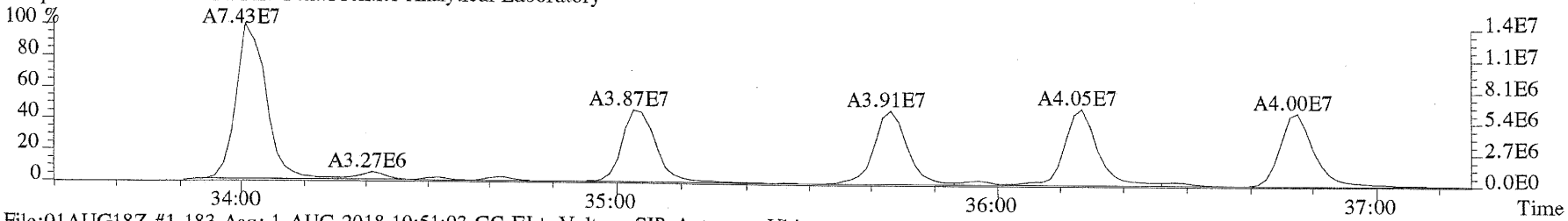
File:01AUG18Z #1-401 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



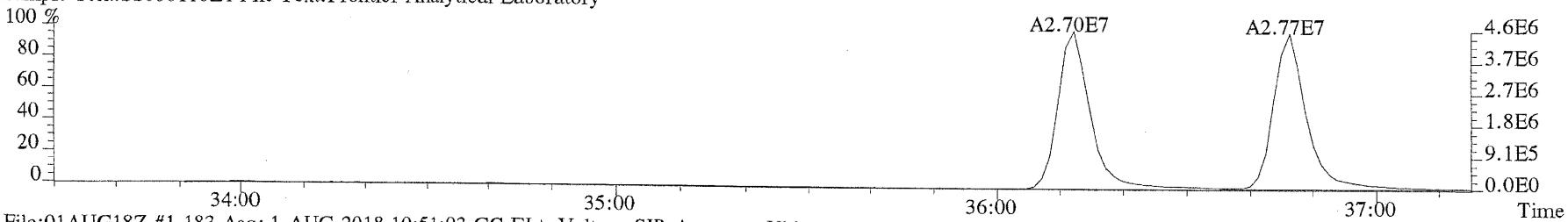
File:01AUG18Z #1-183 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



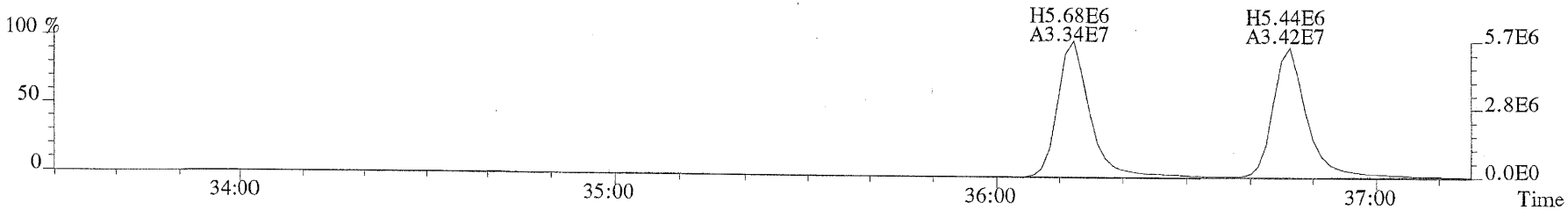
File:01AUG18Z #1-183 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



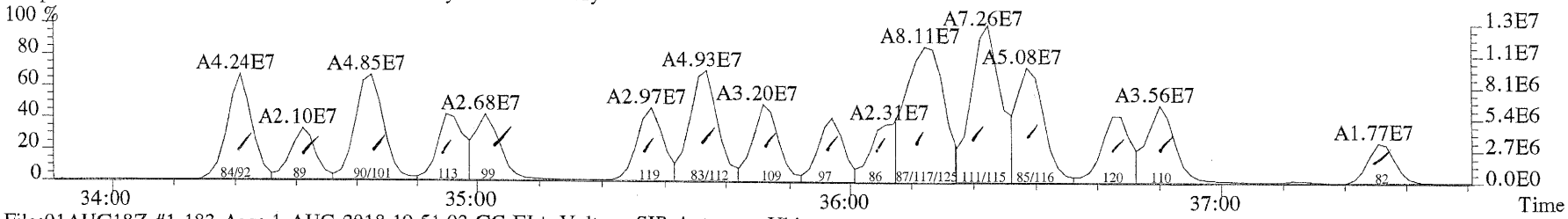
File:01AUG18Z #1-183 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



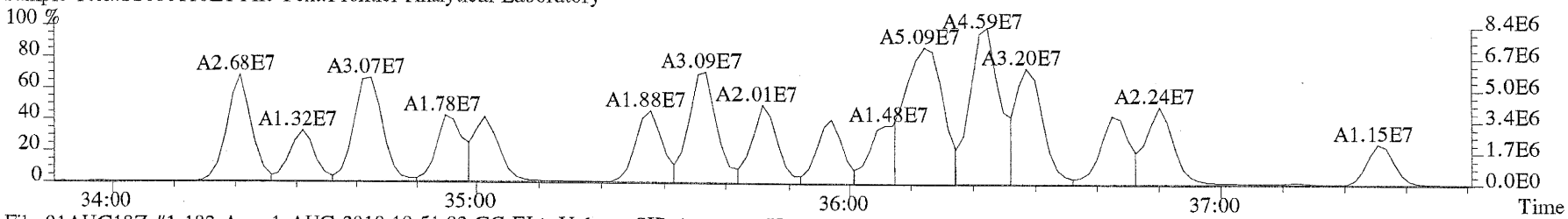
File:01AUG18Z #1-183 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



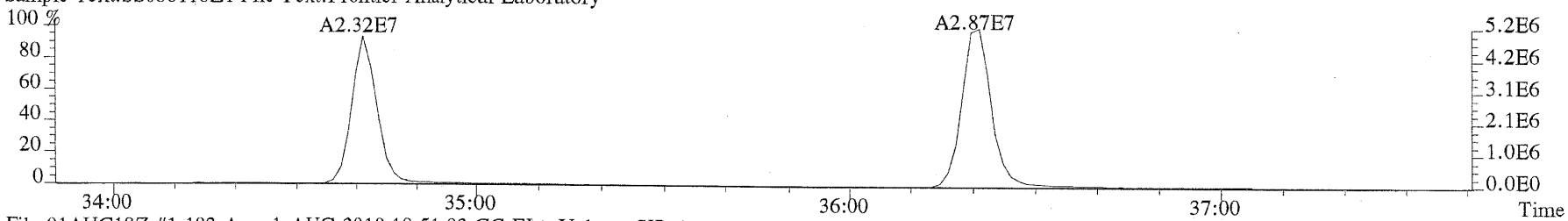
File:01AUG18Z #1-183 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



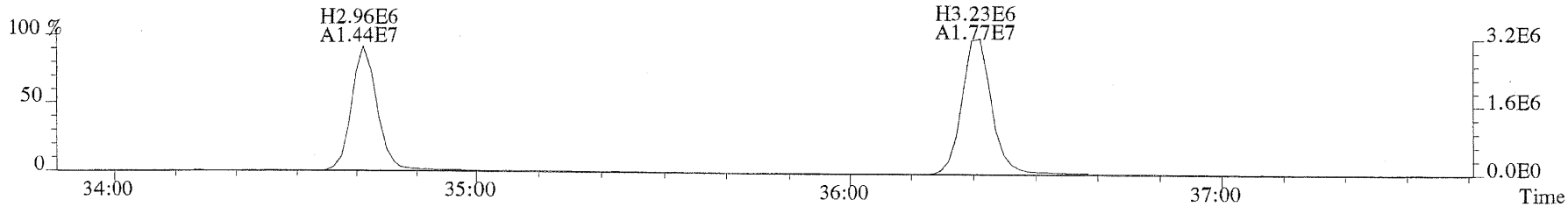
File:01AUG18Z #1-183 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



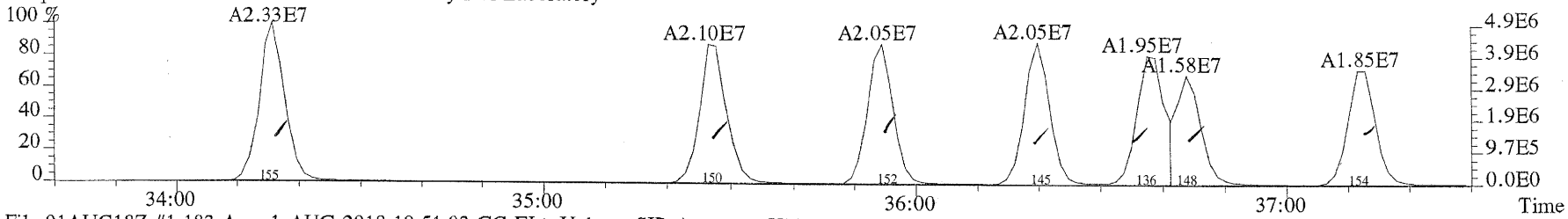
File:01AUG18Z #1-183 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



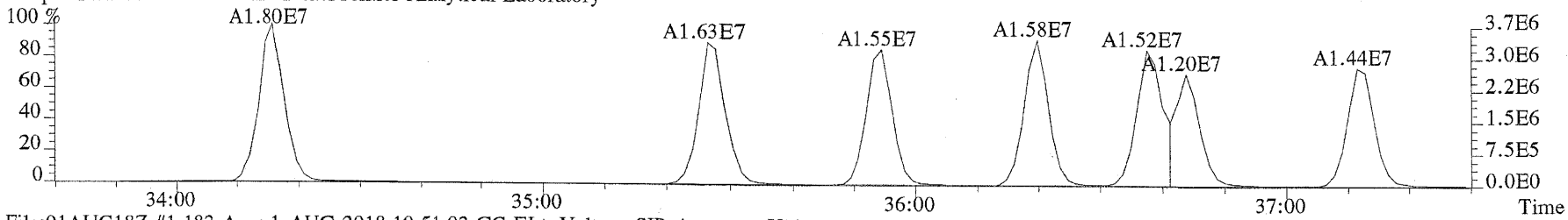
File:01AUG18Z #1-183 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



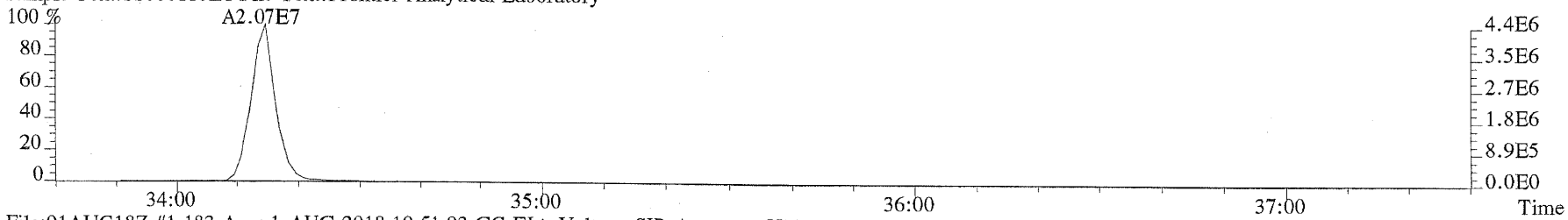
File:01AUG18Z #1-183 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



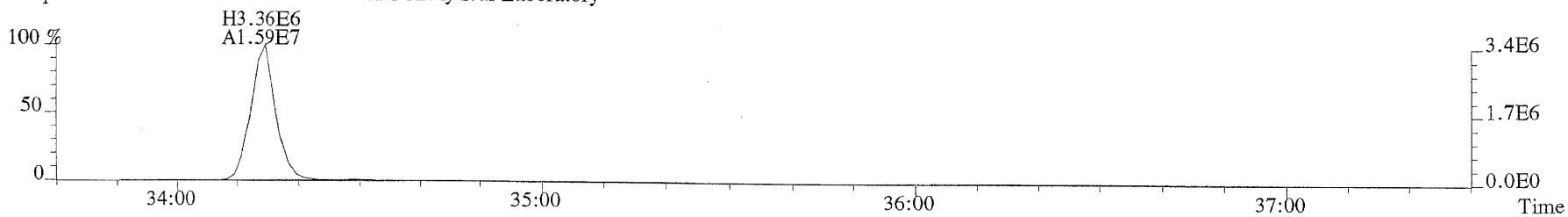
File:01AUG18Z #1-183 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



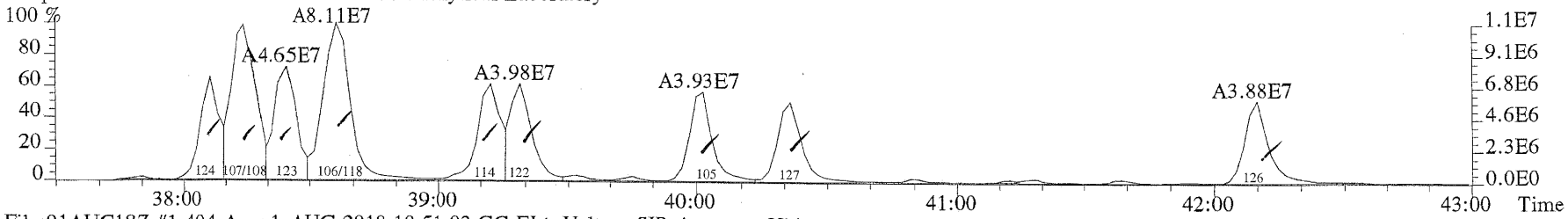
File:01AUG18Z #1-183 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



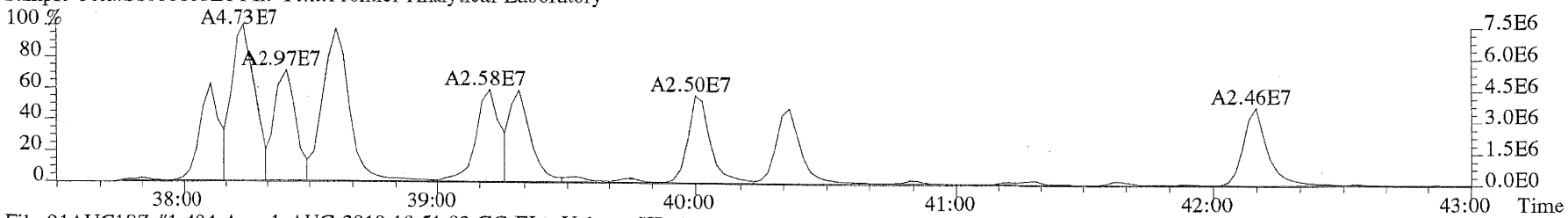
File:01AUG18Z #1-183 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



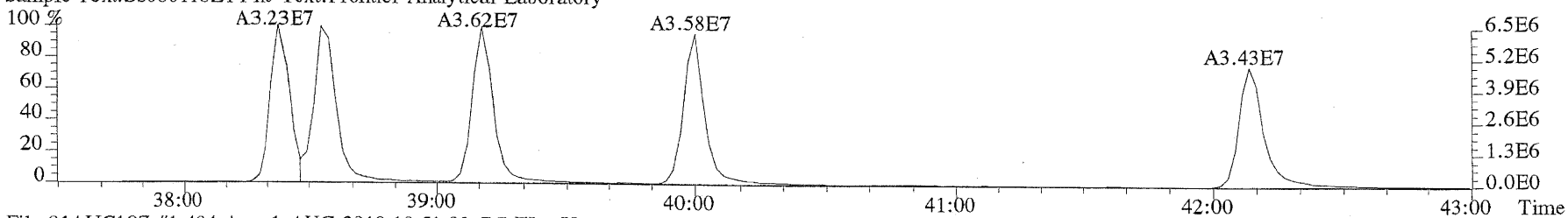
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



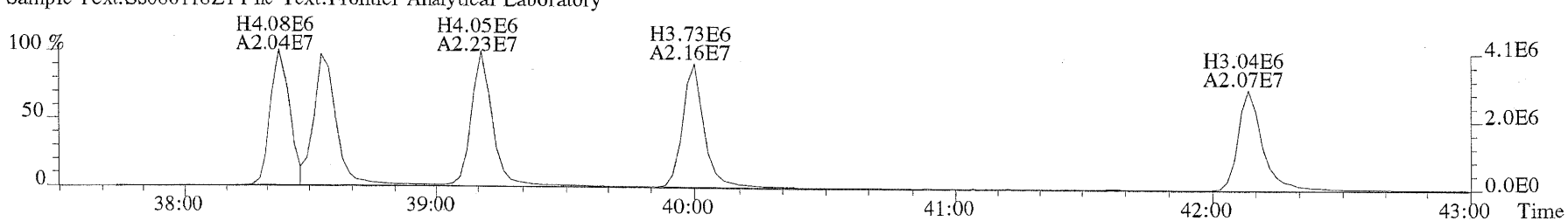
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



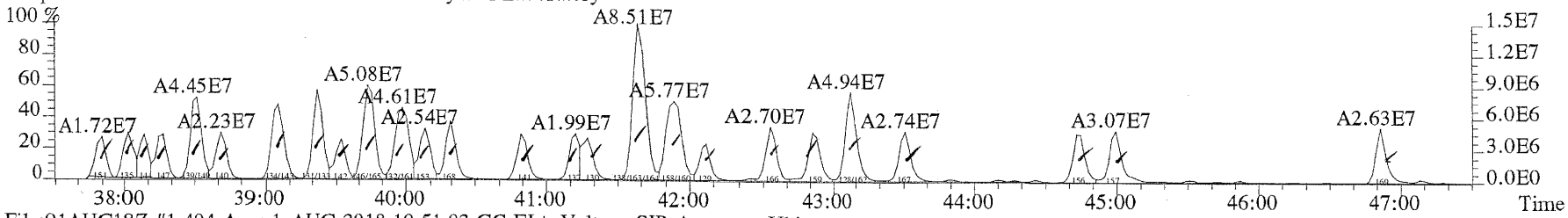
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



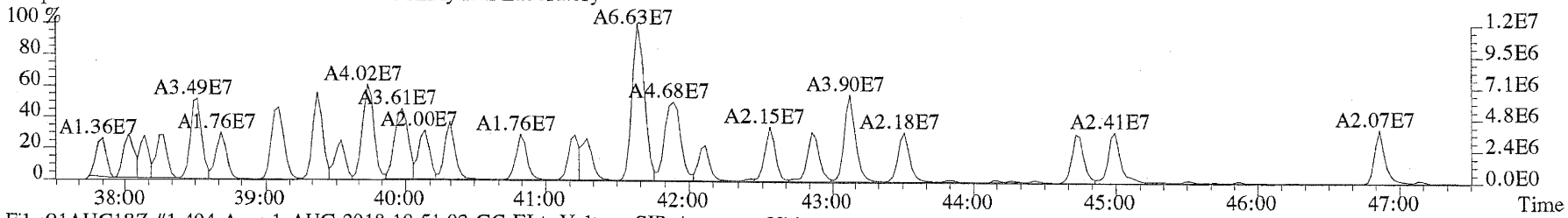
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



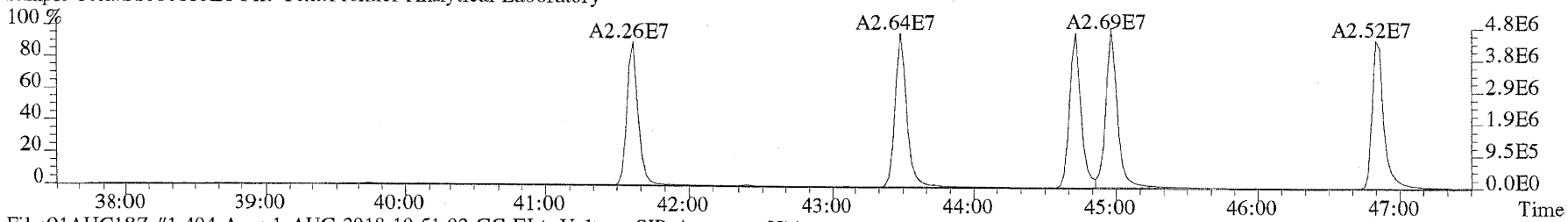
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



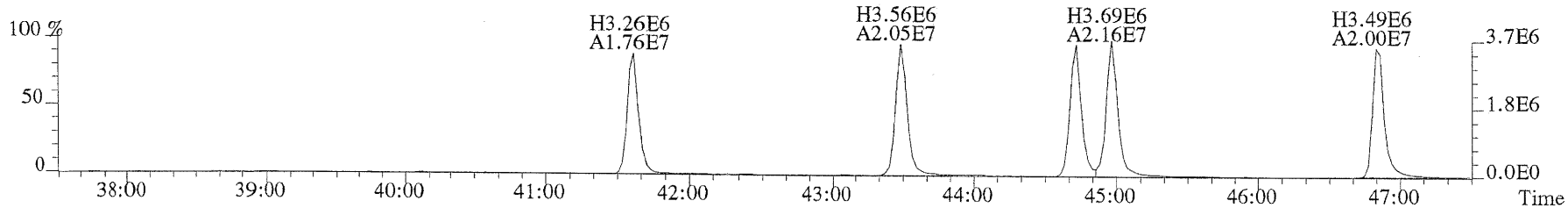
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



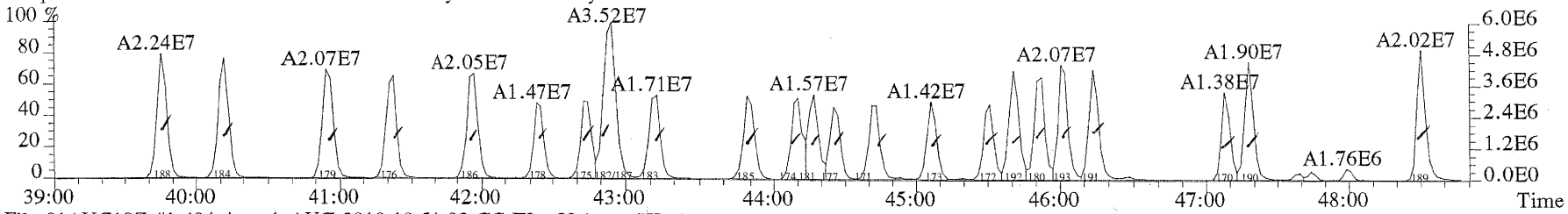
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



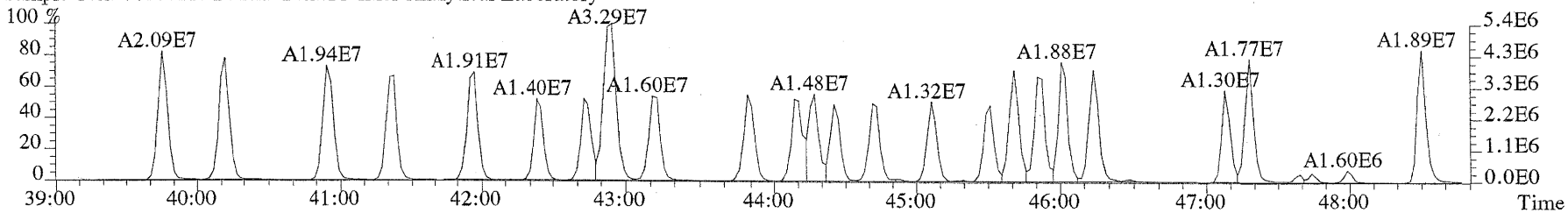
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



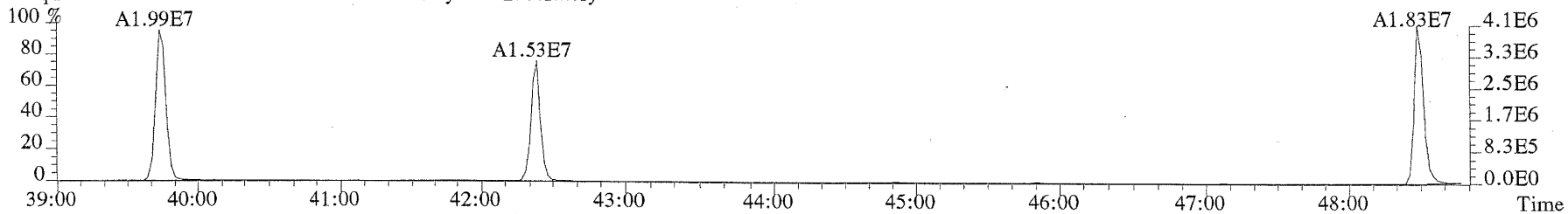
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



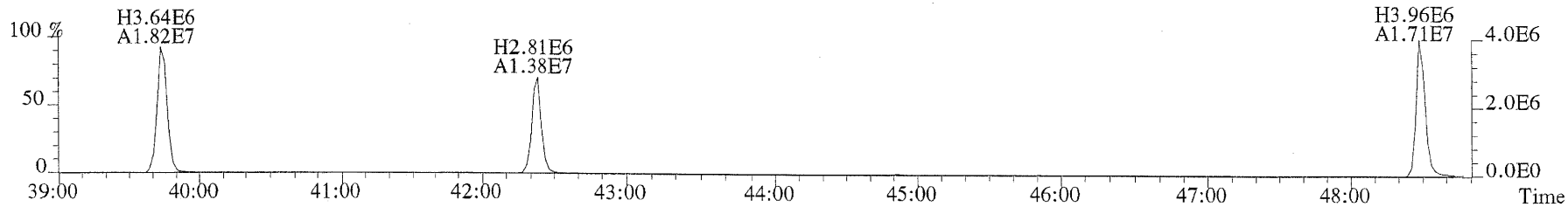
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



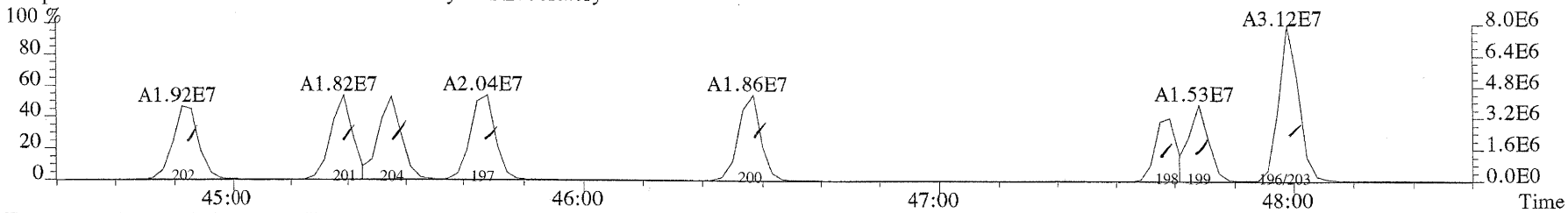
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



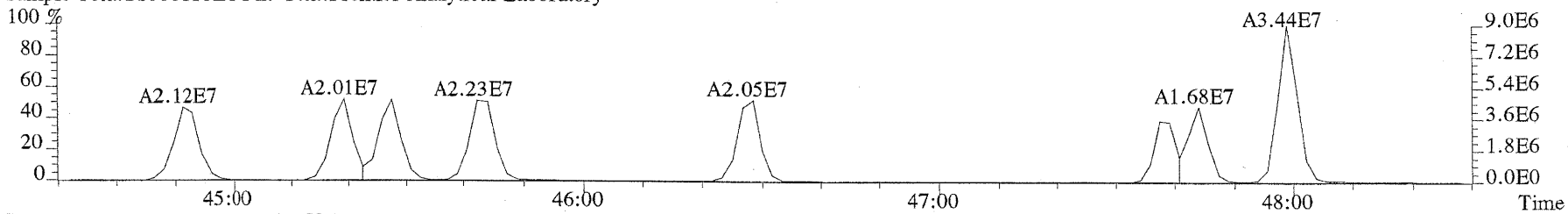
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



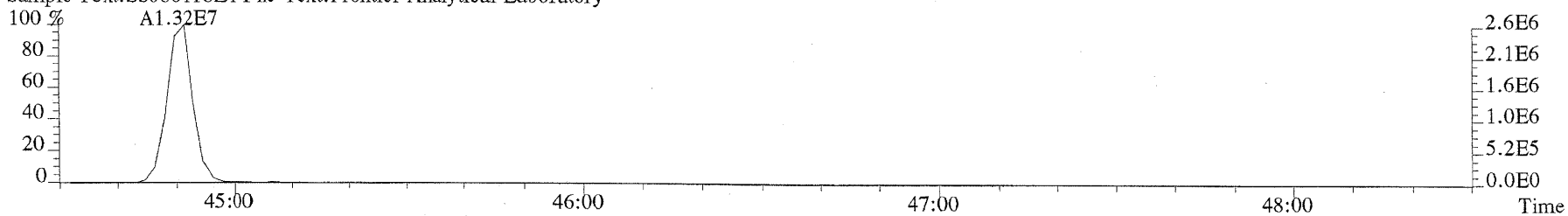
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



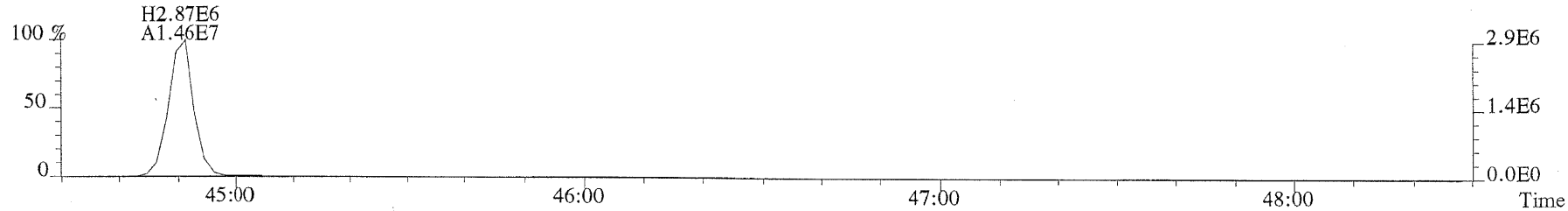
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



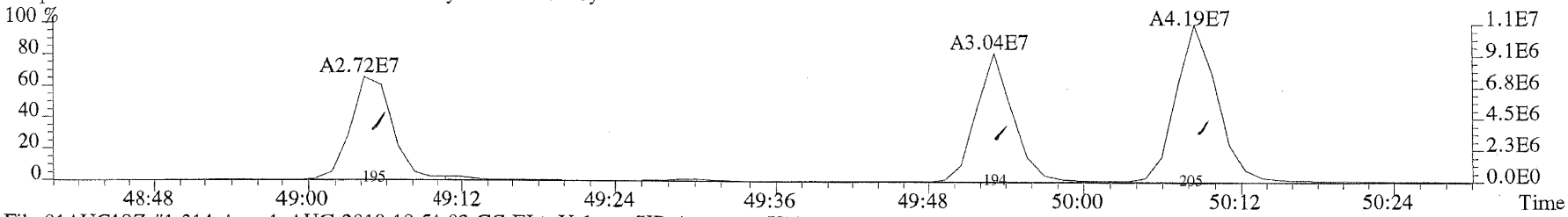
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



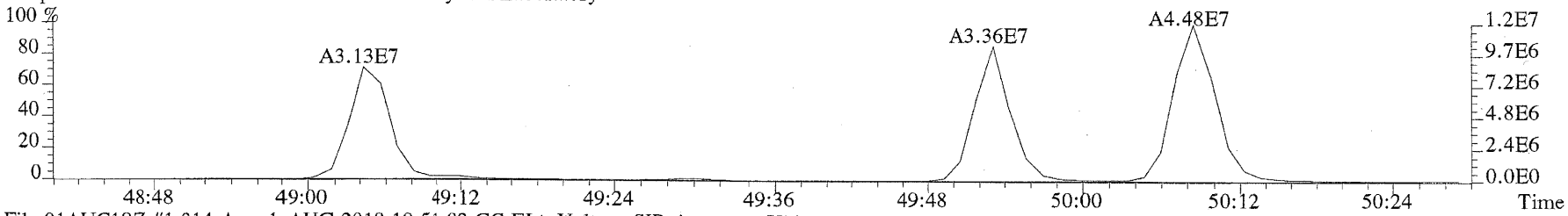
File:01AUG18Z #1-404 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



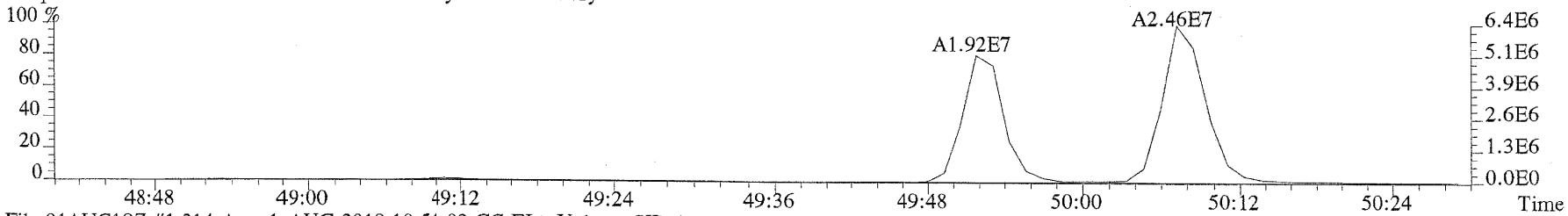
File:01AUG18Z #1-314 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



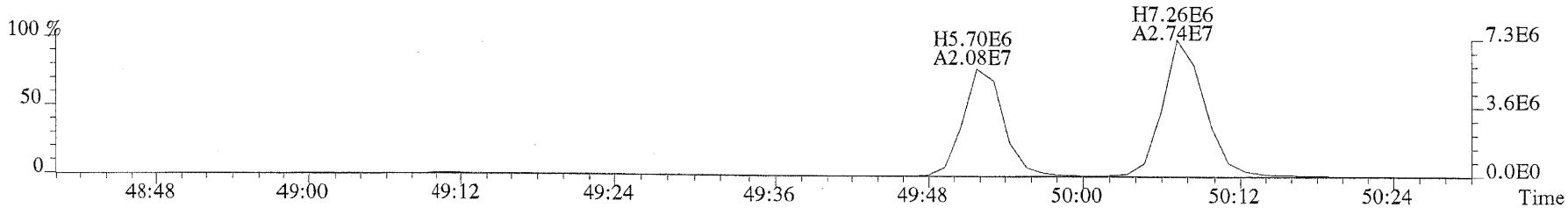
File:01AUG18Z #1-314 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



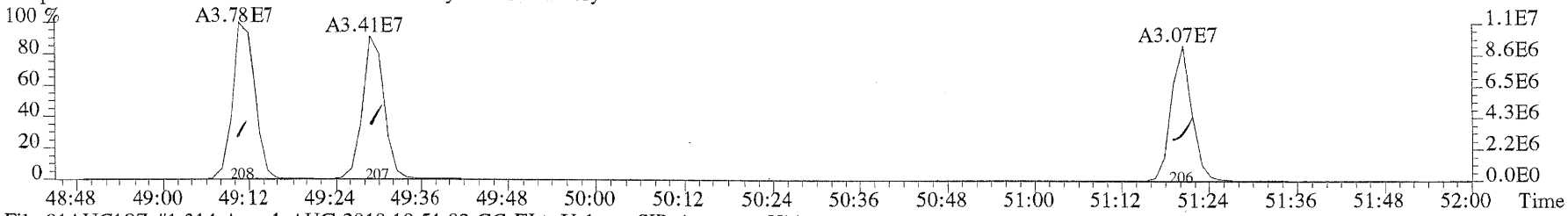
File:01AUG18Z #1-314 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



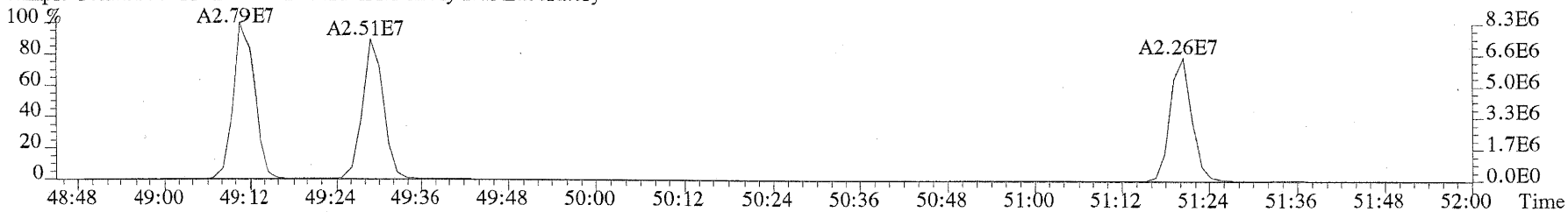
File:01AUG18Z #1-314 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



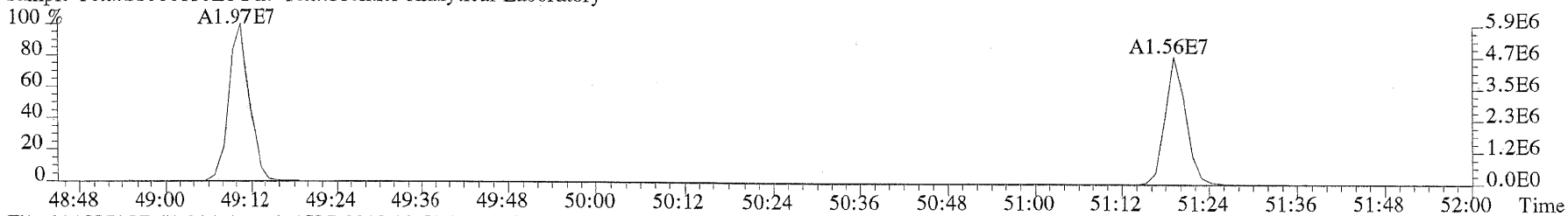
File:01AUG18Z #1-314 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



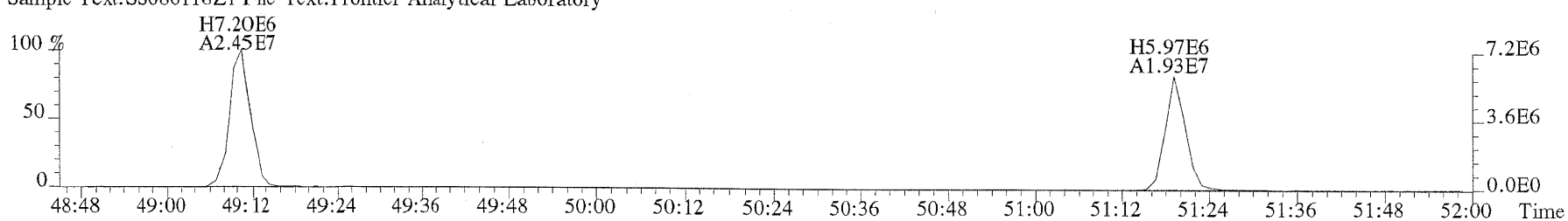
File:01AUG18Z #1-314 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



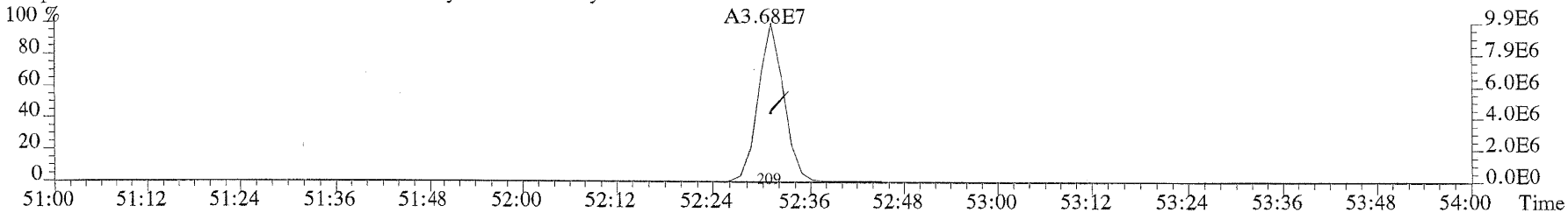
File:01AUG18Z #1-314 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



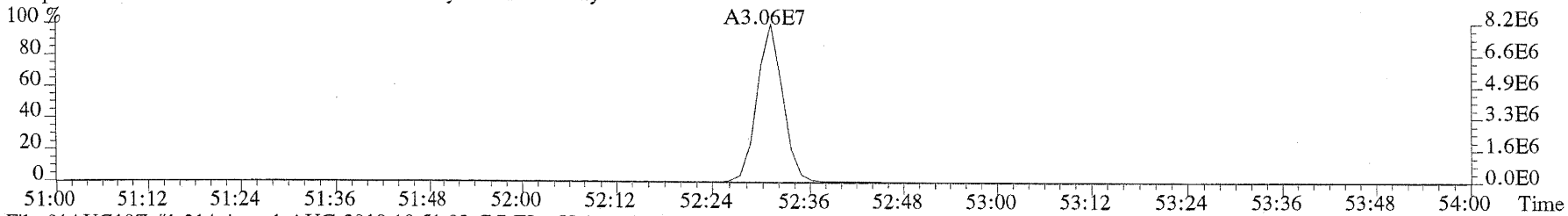
File:01AUG18Z #1-314 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



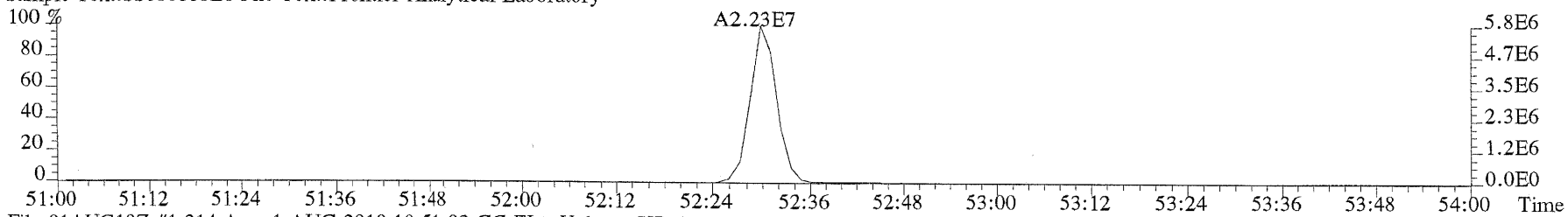
File:01AUG18Z #1-314 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



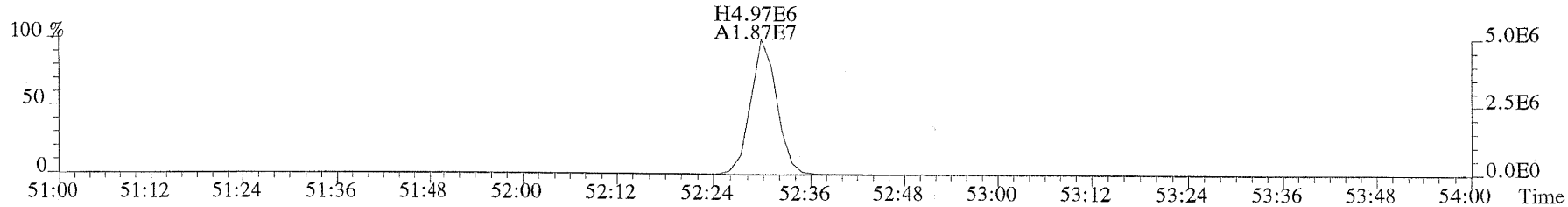
File:01AUG18Z #1-314 Acq: 1-AUG-2018 10:51:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080118Z1 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-314 Acq: 1-AUG-2018 10:51:03 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:SS080118Z1 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-314 Acq: 1-AUG-2018 10:51:03 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:SS080118Z1 File Text:Frontier Analytical Laboratory



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: 01AUG18Z Sam:14 Analysis Date: 1-AUG-18 22:33:31

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.23	2.66-3.60	y	52.6	37.5 - 62.5
PCB-3	M/M+2	3.13	2.66-3.60	y	50.7	37.5 - 62.5
PCB-4	M/M+2	1.55	1.33-1.79	y	55.8	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	56.5	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	47.6	37.5 - 62.5
PCB-37	M/M+2	1.07	0.88-1.20	y	50.6	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	50.7	37.5 - 62.5
PCB-77	M/M+2	0.81	0.65-0.89	y	55.4	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	54.7	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	47.9	37.5 - 62.5
PCB-105	M+2/M+4	1.61	1.32-1.78	y	52.1	37.5 - 62.5
PCB-114	M+2/M+4	1.56	1.32-1.78	y	51.6	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	50.1	37.5 - 62.5
PCB-123	M+2/M+4	1.55	1.32-1.78	y	52.7	37.5 - 62.5
PCB-126	M+2/M+4	1.56	1.32-1.78	y	52.4	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	51.2	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	51.9	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	50.8	37.5 - 62.5
PCB-167	M+2/M+4	1.29	1.05-1.43	y	53.4	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	52.5	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	47.2	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	50.9	37.5 - 62.5
PCB-202	M+2/M+4	0.90	0.76-1.02	y	48.6	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	52.3	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	49.3	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	51.2	37.5 - 62.5
PCB-209	M+4/M+6	1.17	0.99-1.33	y	50.4	37.5 - 62.5

Analyst: [signature] Date: 8/2/18

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: 01AUG18Z Sam:14 Analysis Date: 1-AUG-18 22:33:31

	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	3.13	2.66-3.60	y	90.2	50.0 - 145
13C-PCB-3	M/M+2	3.25	2.66-3.60	y	93.1	50.0 - 145
13C-PCB-4	M/M+2	1.64	1.33-1.79	y	98.4	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	96.8	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	95.9	50.0 - 145
13C-PCB-37	M/M+2	1.08	0.88-1.20	y	127	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	0.79	0.65-0.89	y	116	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	113	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	98.9	50.0 - 145
13C-PCB-105	M+2/M+4	1.64	1.32-1.78	y	117	50.0 - 145
13C-PCB-114	M+2/M+4	1.63	1.32-1.78	y	117	50.0 - 145
13C-PCB-118	M+2/M+4	1.63	1.32-1.78	y	125	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	97.9	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	116	50.0 - 145
13C-PCB-155	M+2/M+4	1.30	1.05-1.43	y	96.7	50.0 - 145
13C-PCB-156	M+2/M+4	1.26	1.05-1.43	y	97.7	50.0 - 145
13C-PCB-157	M+2/M+4	1.24	1.05-1.43	y	113	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	99.3	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	107	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	98.4	50.0 - 145
13C-PCB-189	M+2/M+4	1.10	0.89-1.21	y	97.9	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	100	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	105	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	101	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	85.8	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	91.7	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.08	0.88-1.20	y	127	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	97.3	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	96.3	75.0 - 125

Analyst: [illegible] Date: 8/2/18

FAL ID: ST080118Z2 Filename: 01AUG18Z Sam:14 Acquired: 1-AUG-18 22:33:31 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 01AUG18Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.42e+07	3.23 y	14:33	1.11	52.6		2.50	-	-	*	-
13C-PCB-1	7.60e+07	3.13 y	14:32	1.07	90.2		2.50				90.2
PCB-3	4.34e+07	3.13 y	16:60	1.13	50.7		2.50	-	-	*	-
13C-PCB-3	7.59e+07	3.25 y	16:58	1.03	93.1		2.50				93.1
PCB-4	3.34e+07	1.55 y	18:13	1.14	55.8		2.50	-	-	*	-
13C-PCB-4	5.24e+07	1.64 y	18:12	0.67	98.4		2.50				98.4
PCB-15	4.92e+07	1.57 y	23:46	1.10	56.5		2.50	-	-	*	-
13C-PCB-15	7.89e+07	1.61 y	23:46	1.03	96.8		2.50				96.8
PCB-19	2.08e+07	1.07 y	22:07	1.23	47.6		2.50	-	-	*	-
13C-PCB-19	3.56e+07	1.07 y	22:05	0.47	95.9		2.50				95.9
13C-PCB-9	7.90e+07	1.64 y	19:54	-	337		2.50				
PCB-37	3.99e+07	1.07 y	30:27	1.26	50.6		2.50	-	-	*	-
13C-PCB-37	6.27e+07	1.08 y	30:26	1.40	127		2.50				127
PCB-54	2.51e+07	0.80 y	25:39	1.16	50.7		2.50	-	-	*	-
13C-PCB-54	4.28e+07	0.81 y	25:37	1.19	102		2.50				102
PCB-104	1.64e+07	1.59 y	30:05	1.22	47.9		2.50	-	-	*	-
13C-PCB-104	2.80e+07	1.61 y	30:04	0.80	98.9		2.50				98.9
13C-PCB-28	6.89e+07	1.08 y	26:43	1.53	127		2.50				127
13C-PCB-52	3.54e+07	0.79 y	28:58	-	273		2.50				
PCB-81	2.86e+07	0.79 y	36:13	1.17	54.7		2.50	-	-	*	-
13C-PCB-81	4.47e+07	0.80 y	36:12	1.37	113		2.50				113
PCB-77	2.90e+07	0.81 y	36:47	1.11	55.4		2.50	-	-	*	-
13C-PCB-77	4.73e+07	0.79 y	36:46	1.41	116		2.50				116
PCB-155	1.67e+07	1.29 y	34:14	1.14	51.2		2.50	-	-	*	-
13C-PCB-155	2.86e+07	1.30 y	34:13	1.02	96.7		2.50				96.7
13C-PCB-111	3.56e+07	1.61 y	36:19	1.26	97.3		2.50				97.3
13C-PCB-101	2.90e+07	1.62 y	34:41	-	256		2.50				
PCB-123	2.24e+07	1.55 y	38:24	1.12	52.7		2.50	-	-	*	-
13C-PCB-123	3.78e+07	1.60 y	38:22	1.36	97.9		2.50				97.9
PCB-118	2.93e+07	1.56 y	38:34	1.16	50.1		2.50	-	-	*	-
13C-PCB-118	5.04e+07	1.63 y	38:32	1.42	125		2.50				125
PCB-114	2.67e+07	1.56 y	39:12	1.13	51.6		2.50	-	-	*	-
13C-PCB-114	4.60e+07	1.63 y	39:10	1.38	117		2.50				117
PCB-105	2.65e+07	1.61 y	40:01	1.11	52.1		2.50	-	-	*	-
13C-PCB-105	4.59e+07	1.64 y	39:60	1.38	117		2.50				117
PCB-126	2.47e+07	1.56 y	42:10	1.11	52.4		2.50	-	-	*	-
13C-PCB-126	4.24e+07	1.60 y	42:08	1.29	116		2.50				116
PCB-167	1.95e+07	1.29 y	43:30	1.05	53.4		2.50	-	-	*	-
13C-PCB-167	3.48e+07	1.28 y	43:29	1.23	99.3		2.50				99.3
PCB-156	1.85e+07	1.26 y	44:44	1.08	51.9		2.50	-	-	*	-
13C-PCB-156	3.31e+07	1.26 y	44:43	1.19	97.7		2.50				97.7
PCB-157	2.14e+07	1.25 y	44:59	1.06	50.8		2.50	-	-	*	-
13C-PCB-157	3.99e+07	1.24 y	44:58	1.24	113		2.50				113
PCB-169	1.95e+07	1.27 y	46:51	1.06	52.5		2.50	-	-	*	-
13C-PCB-169	3.50e+07	1.25 y	46:51	1.15	107		2.50				107
PCB-188	1.70e+07	1.05 y	39:45	1.14	47.2		2.50	-	-	*	-
13C-PCB-188	3.15e+07	1.09 y	39:43	1.13	98.4		2.50				98.4
PCB-189	1.49e+07	1.05 y	48:30	1.12	50.9		2.50	-	-	*	-
13C-PCB-189	2.63e+07	1.10 y	48:28	0.94	97.9		2.50				97.9
PCB-202	1.16e+07	0.90 y	44:51	1.09	48.6		2.50	-	-	*	-
13C-PCB-202	2.20e+07	0.91 y	44:49	0.77	100		2.50				100
13C-PCB-178	2.08e+07	1.06 y	42:21	0.76	96.3		2.50				96.3
13C-PCB-138	2.84e+07	1.30 y	41:37	-	260		2.50				

FAL ID: ST080118Z2 Filename: 01AUG18Z Sam:14 Acquired: 1-AUG-18 22:33:31 ICal: 1668FAL4-4-4-18
Client ID: 1668 CS3 170805A ConCal: ST072718Z1 EndCal: ST072718Z2
Results: 01AUG18Z GC Column: DB1MS Amount: 1.000

PCB-205	2.33e+07	0.91	y	50:08	1.04	52.3	2.50	-	-	*	-
13C-PCB-205	4.27e+07	0.91	y	50:07	1.32	105	2.50				105
PCB-208	1.73e+07	1.35	y	49:10	0.96	51.2	2.50	-	-	*	-
13C-PCB-208	3.51e+07	0.81	y	49:09	1.33	85.8	2.50				85.8
PCB-206	1.40e+07	1.36	y	51:20	0.97	49.3	2.50	-	-	*	-
13C-PCB-206	2.91e+07	0.80	y	51:19	0.94	101	2.50				101
PCB-209	1.74e+07	1.17	y	52:31	1.17	50.4	2.50	-	-	*	-
13C-PCB-209	2.94e+07	1.20	y	52:29	1.04	91.7	2.50				91.7
13C-PCB-194	3.07e+07	0.92	y	49:51	-	310	2.50				

Analyst: _____ Date: 8/6/18

Frontier Analytical Laboratory - Acquisition Log

Run Name:01AUG18Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

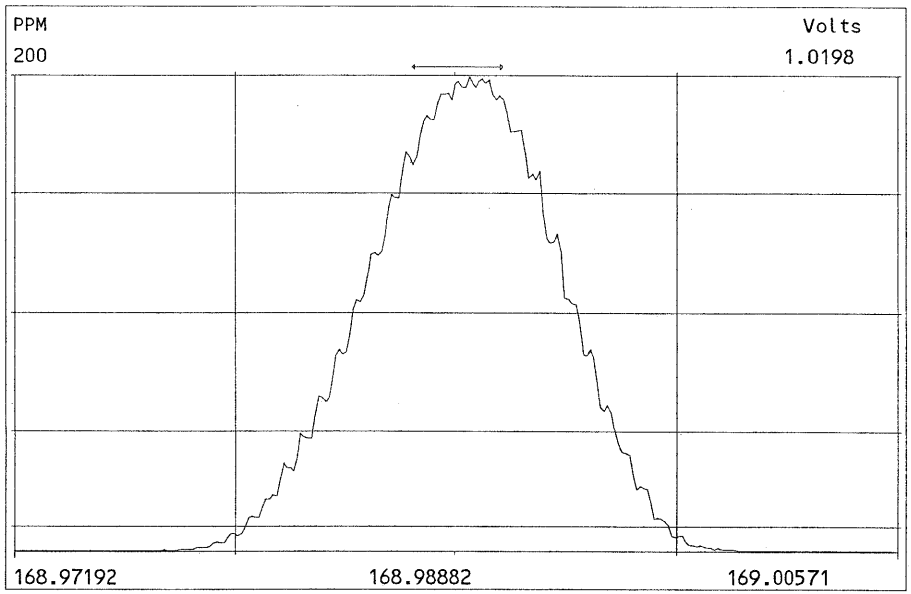
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
01AUG18Z	1	ST080118Z1	1668 CS3 170805A	1-AUG-18 09:52:43	ST080118Z1	ST080118Z2	BS
01AUG18Z	2	SS080118Z1	Daily 209 180725A	1-AUG-18 10:51:03	ST080118Z1	ST080118Z2	BS
01AUG18Z	3	04593-001-0001-OPR	OPR	1-AUG-18 11:49:25	ST080118Z1	ST080118Z2	BS
01AUG18Z	4	04593-001-0001-MB	Method Blank	1-AUG-18 12:48:11	ST080118Z1	ST080118Z2	BS
01AUG18Z	5	11708-001-0001-SA	Effluent (E002) 10093	1-AUG-18 13:46:57	ST080118Z1	ST080118Z2	BS
01AUG18Z	6	11719-016-0001-SA	LDW-Y1-SU-ENR+AC-CA-CORE	1-AUG-18 14:45:18	ST080118Z1	ST080118Z2	BS
01AUG18Z	7	11719-017-0001-SA	LDW-Y1-SU-ENR+AC-CB-CORE	1-AUG-18 15:43:44	ST080118Z1	ST080118Z2	BS
01AUG18Z	8	11719-018-0001-SA	LDW-Y1-SU-ENR+AC-CC-CORE	1-AUG-18 16:42:30	ST080118Z1	ST080118Z2	BS
01AUG18Z	9	SB080118Z1	Solvent Blank	1-AUG-18 17:40:54	ST080118Z1	ST080118Z2	BS
01AUG18Z	10	04595-001-0001-OPR	OPR	1-AUG-18 18:39:15	ST080118Z1	ST080118Z2	BS
01AUG18Z	11	04595-001-0001-MB	Method Blank	1-AUG-18 19:37:37	ST080118Z1	ST080118Z2	BS
01AUG18Z	12	11752-001-B002-SA	RM#51175-Lot#845732 Marine Co	1-AUG-18 20:36:24	ST080118Z1	ST080118Z2	BS
01AUG18Z	13	SB080118Z2	Solvent Blank	1-AUG-18 21:34:44	ST080118Z1	ST080118Z2	BS
01AUG18Z	14	ST080118Z2	1668 CS3 170805A	1-AUG-18 22:33:31	ST080118Z1	ST080118Z2	BS

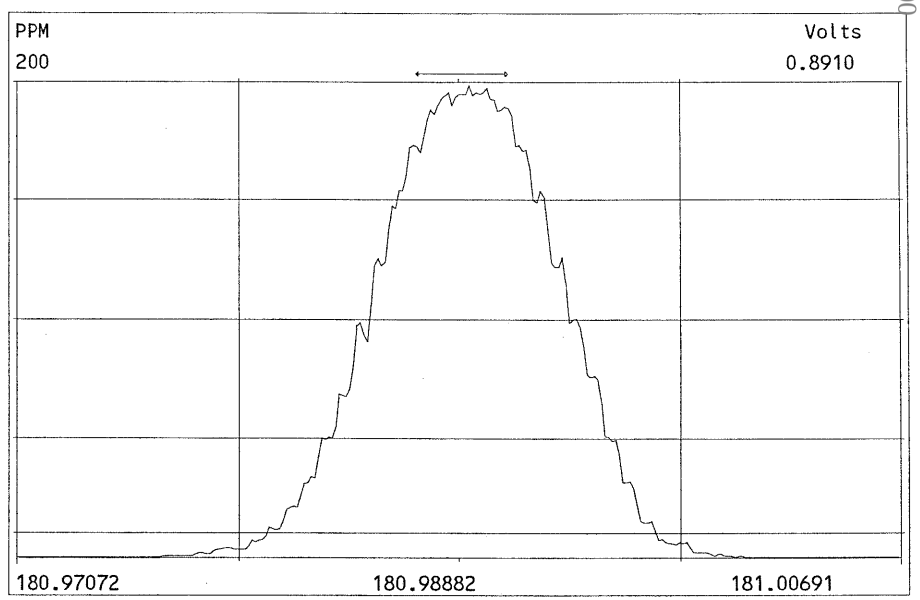
8/2/18

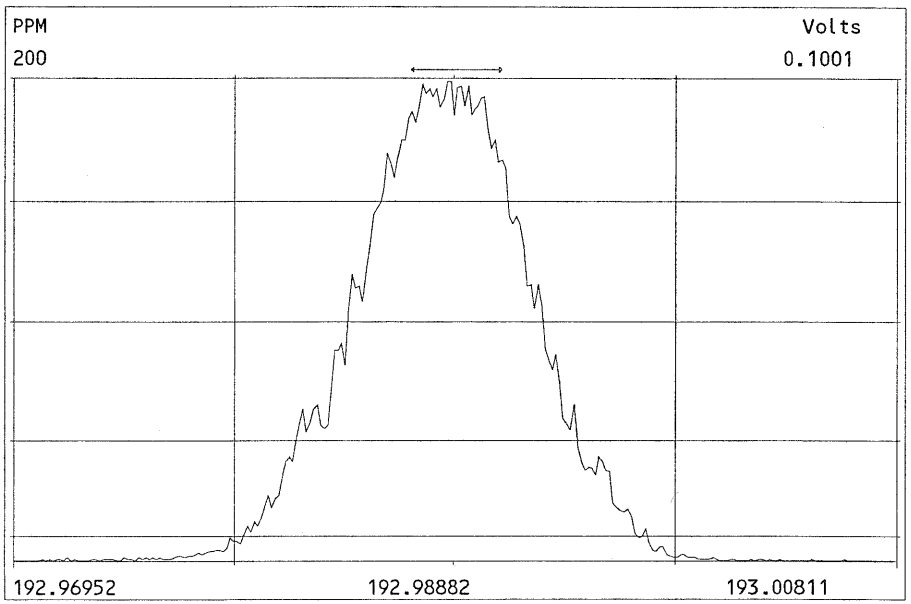
Data Backed Up:_____

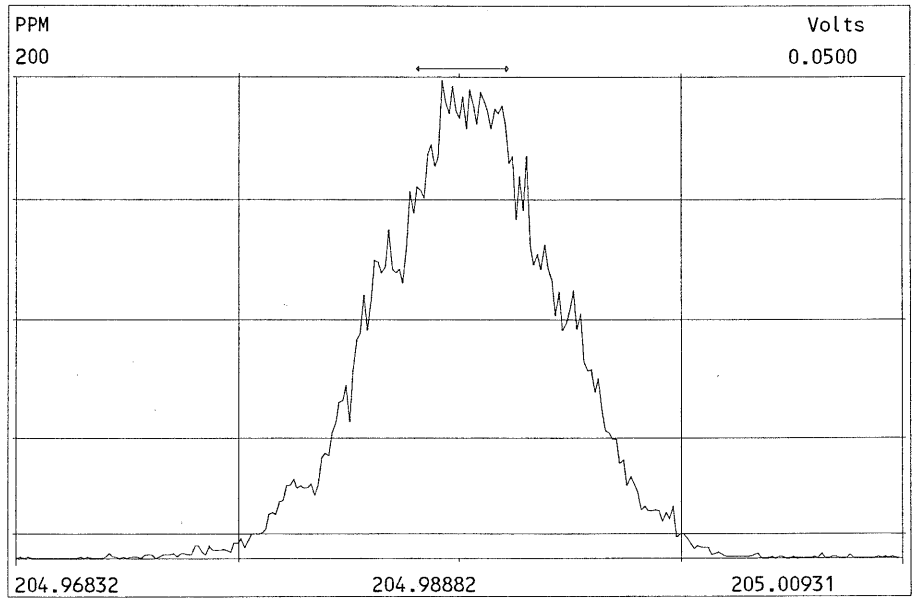
Date:_____

Peak Locate Examination: 1-AUG-2018:09:49 File:01AUG18Z
Experiment:1668PCB Function:1 Reference:PFK

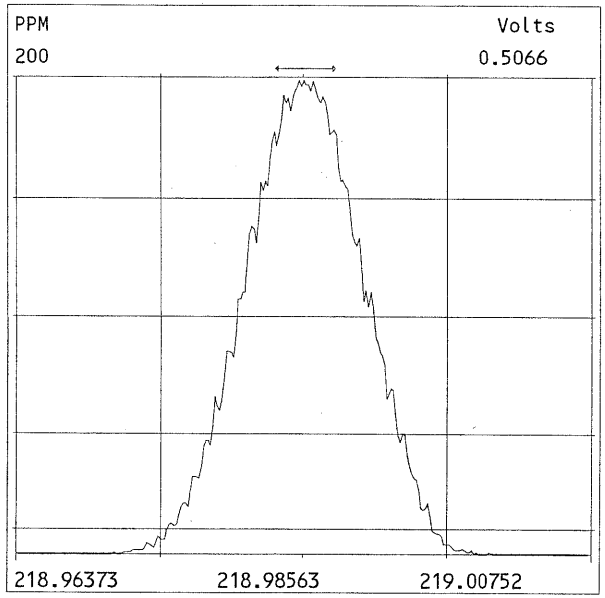


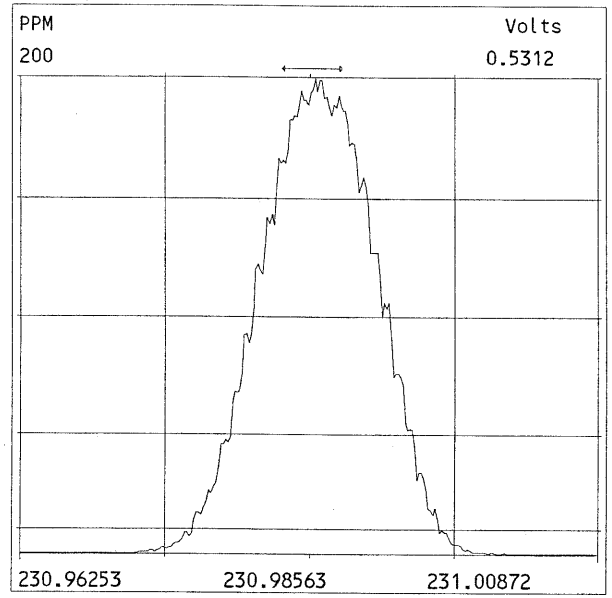


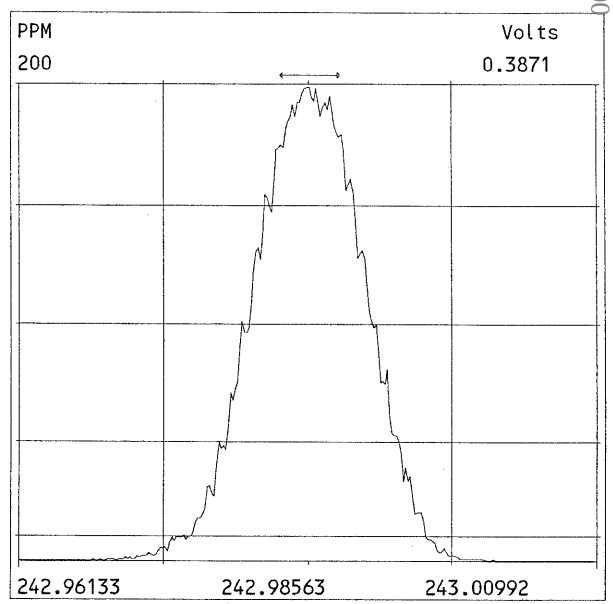


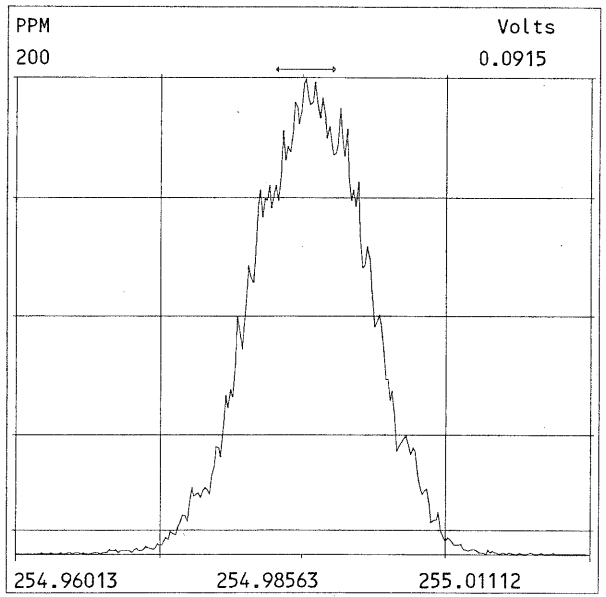


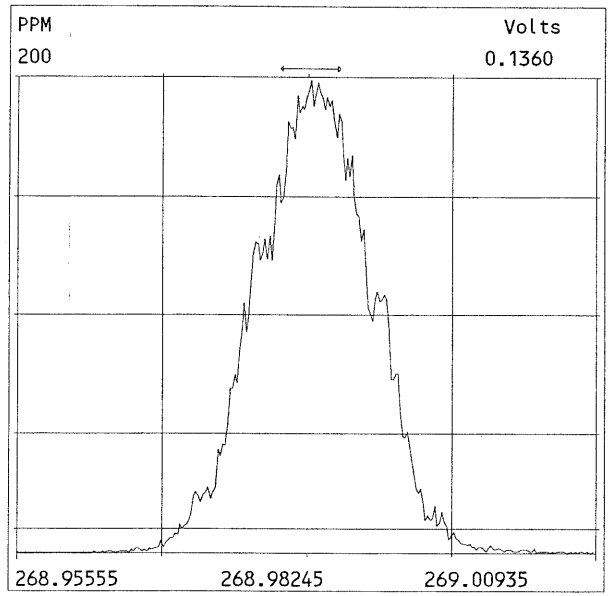
Peak Locate Examination: 1-AUG-2018:09:50 File:01AUG18Z
Experiment:1668PCB Function:2 Reference:PFK

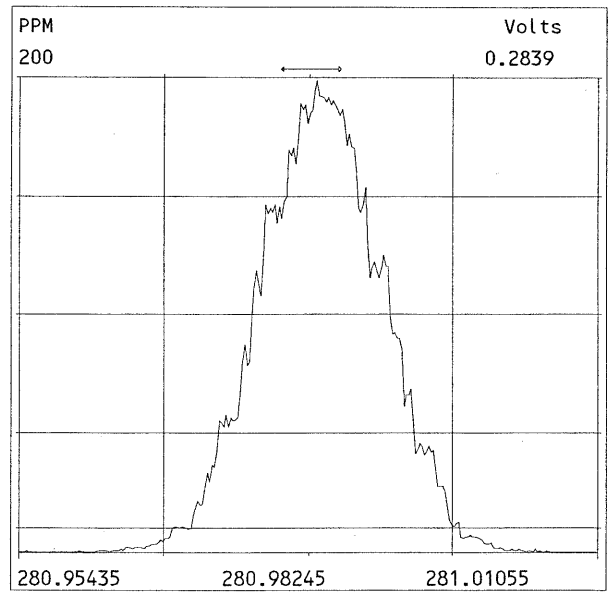




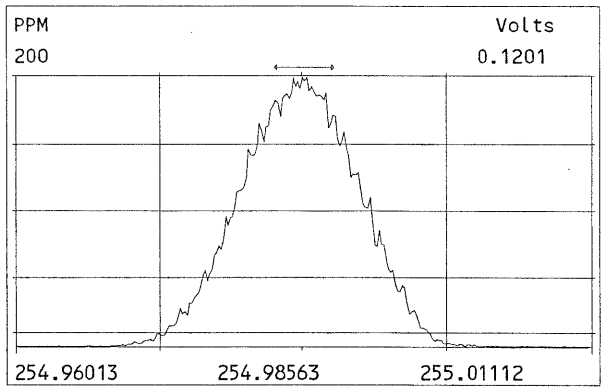


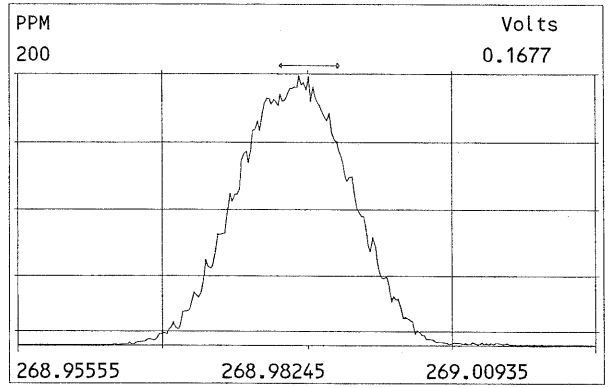


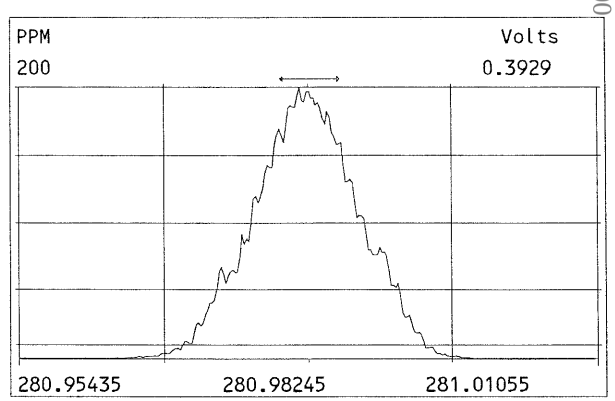


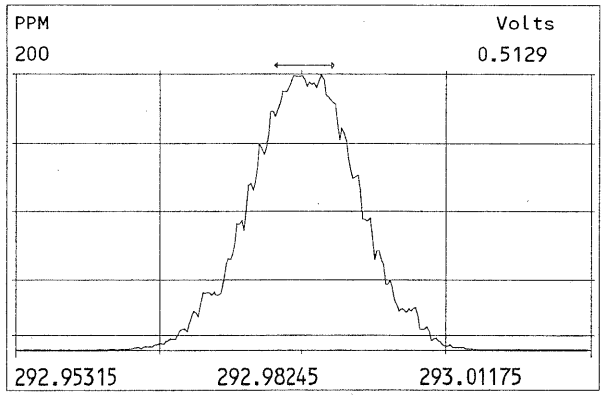


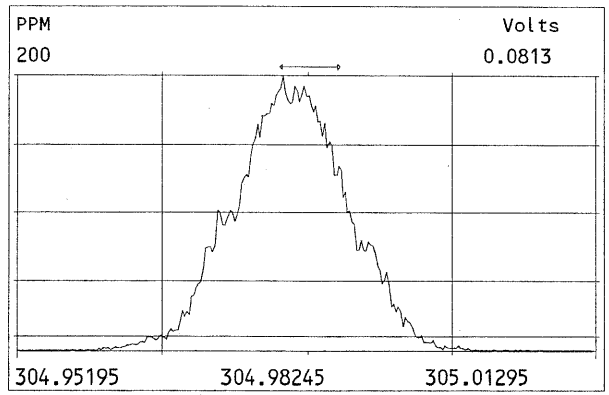
Peak Locate Examination: 1-AUG-2018:09:50 File:01AUG18Z
Experiment:1668PCB Function:3 Reference:PFK

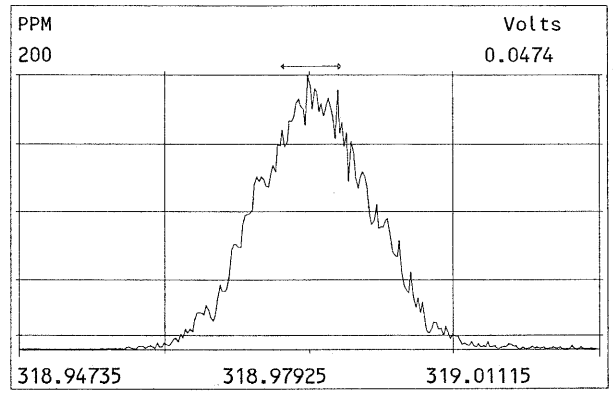


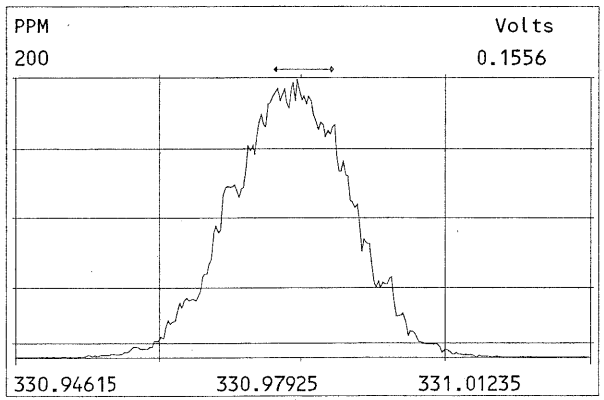


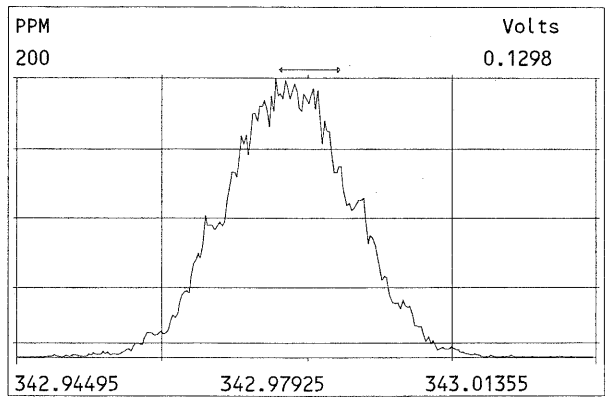




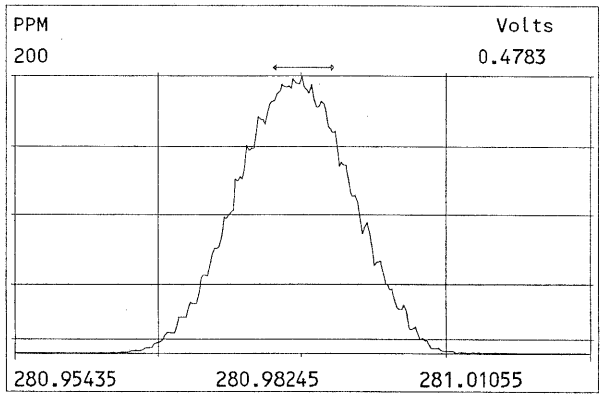


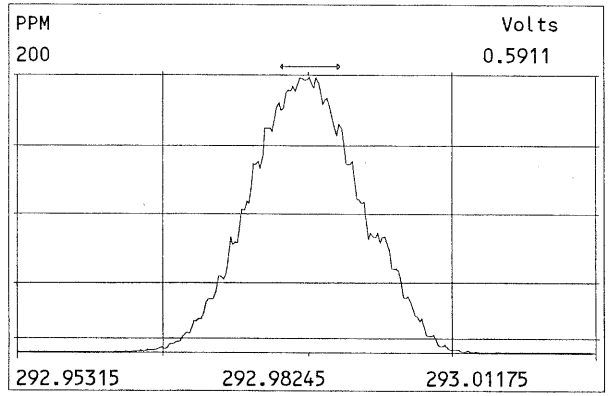


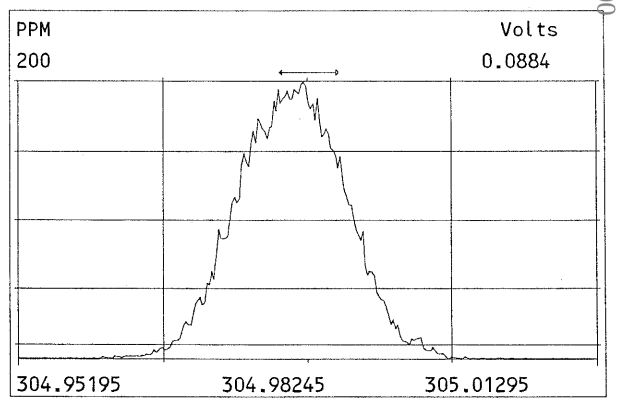


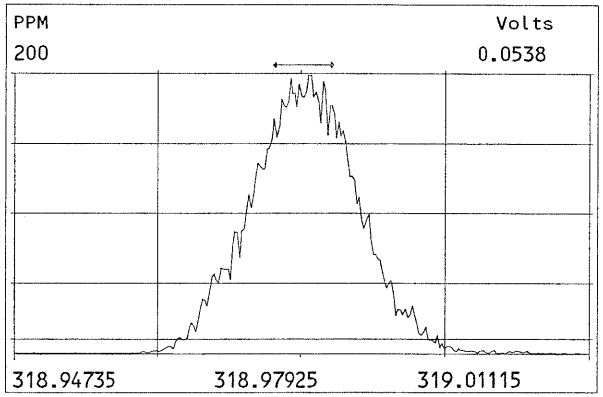


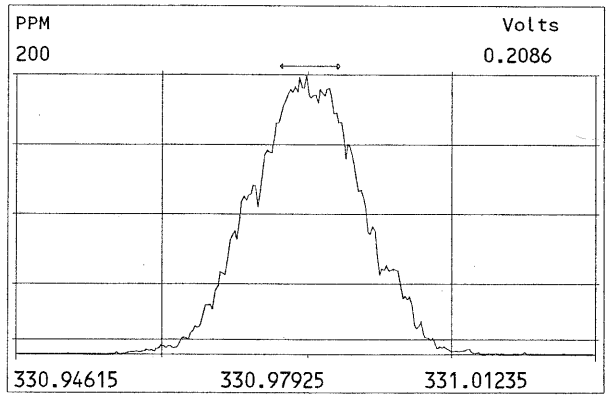
Peak Locate Examination: 1-AUG-2018:09:51 File:01AUG18Z
Experiment:1668PCB Function:4 Reference:PFK

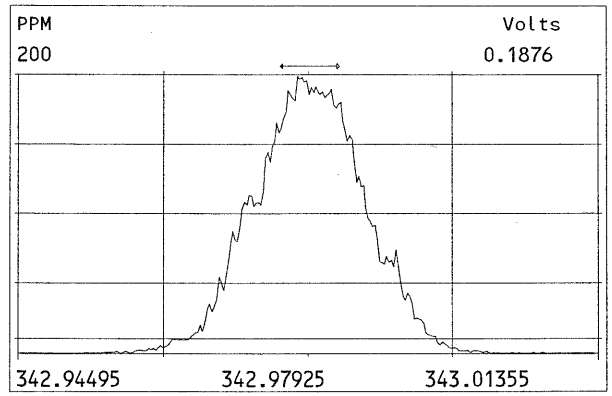


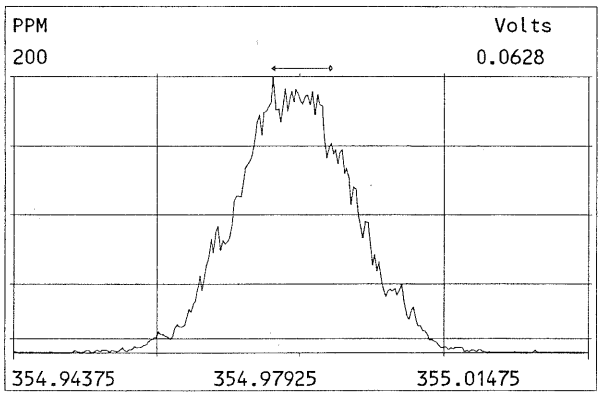


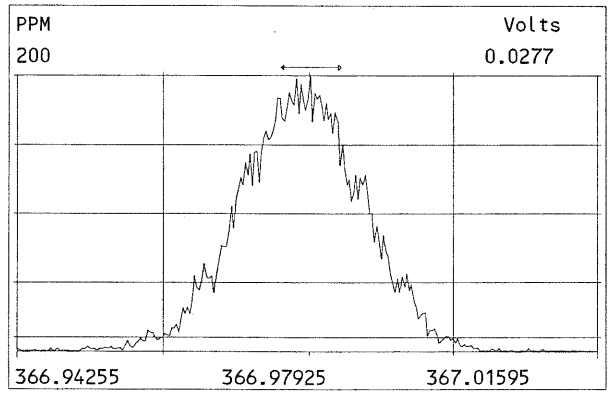


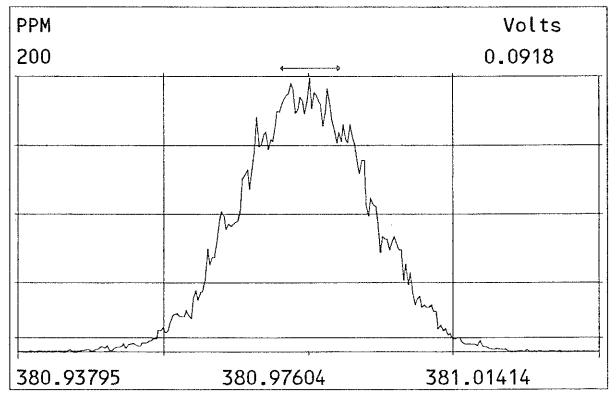




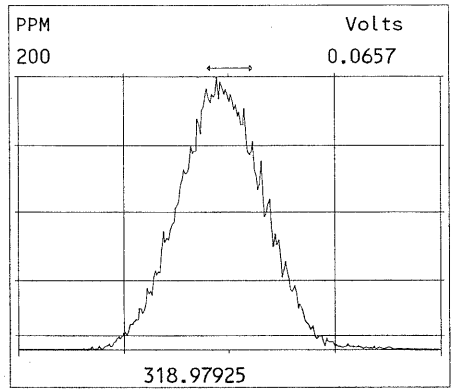


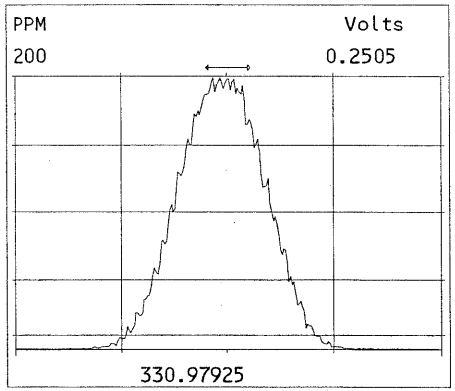


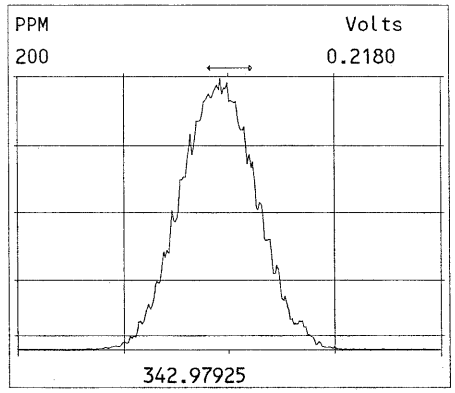


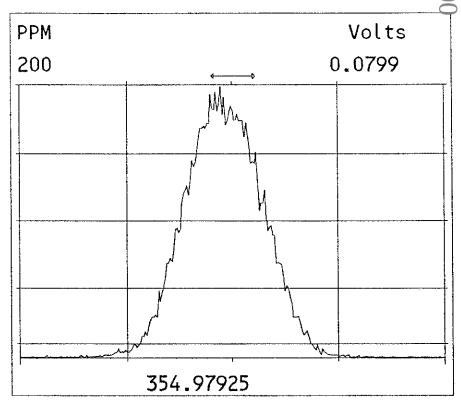


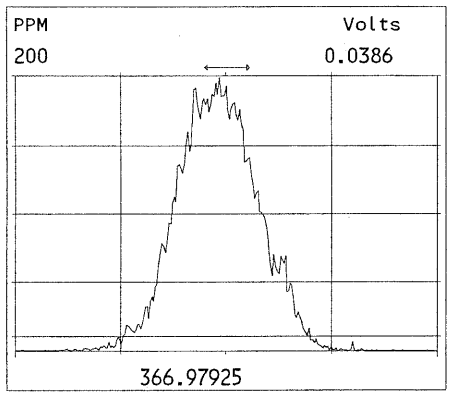
Peak Locate Examination: 1-AUG-2018:09:51 File:01AUG18Z
Experiment:1668PCB Function:5 Reference:PFK

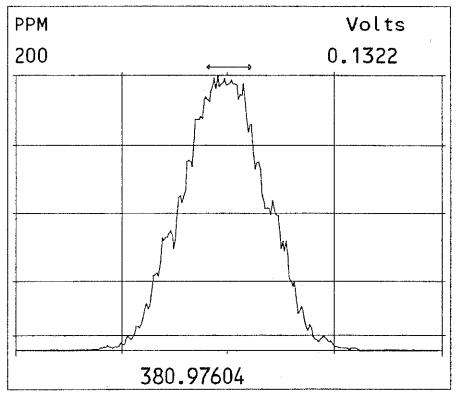


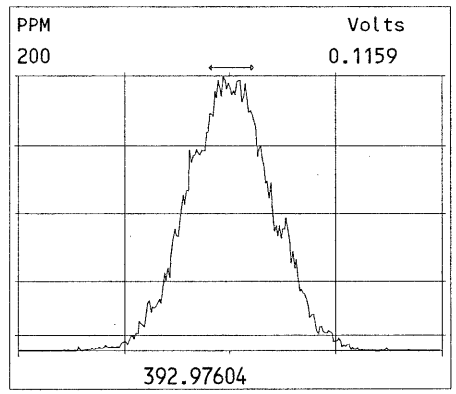


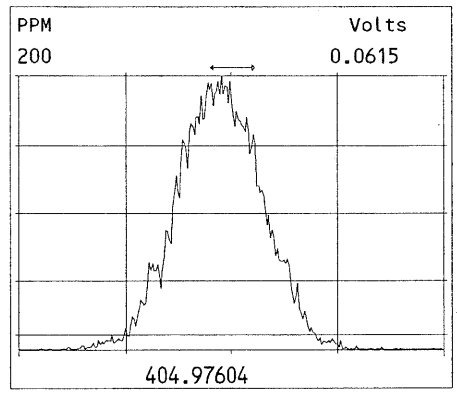


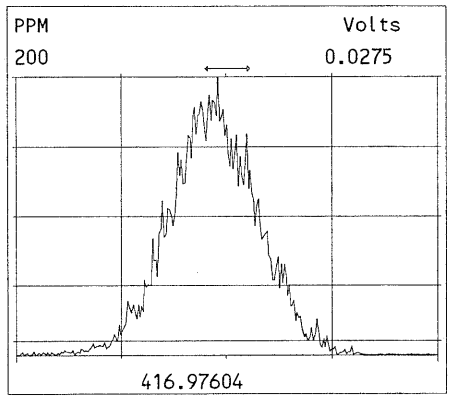


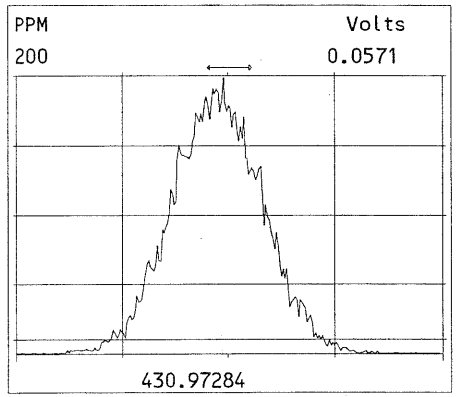


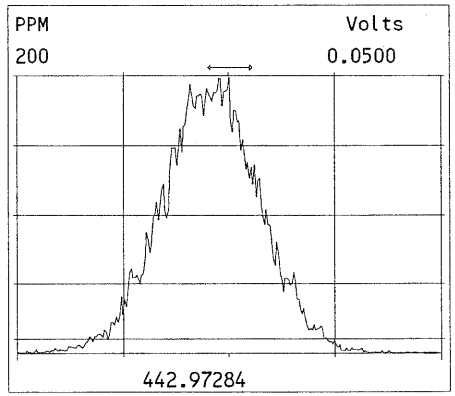




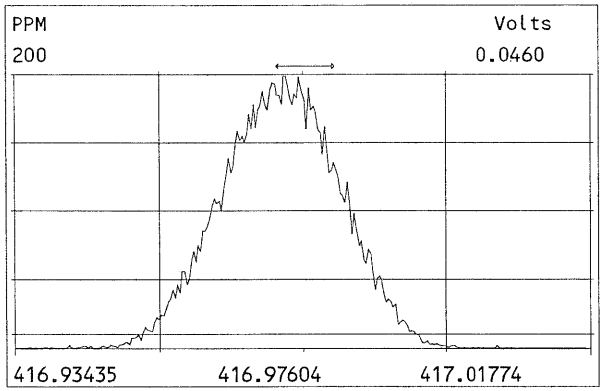


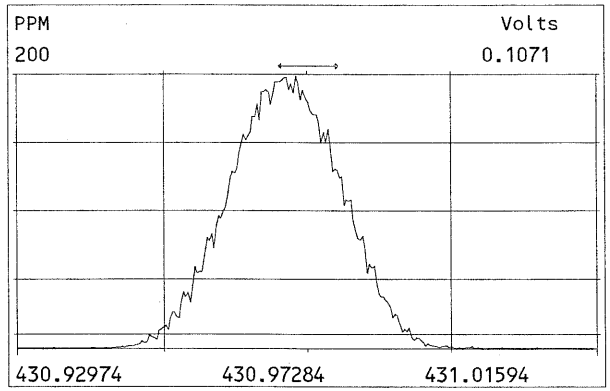


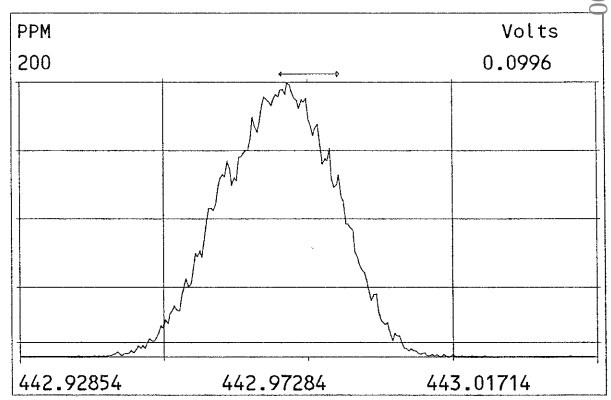


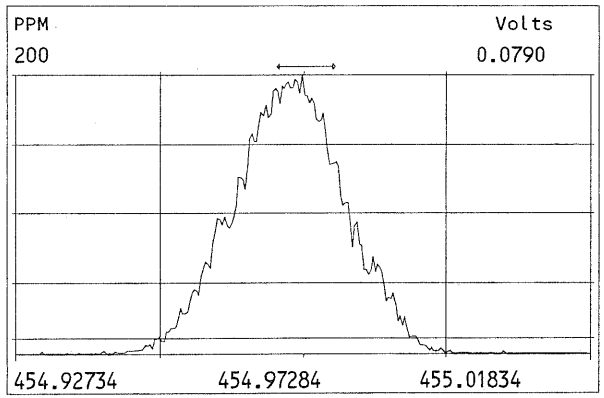


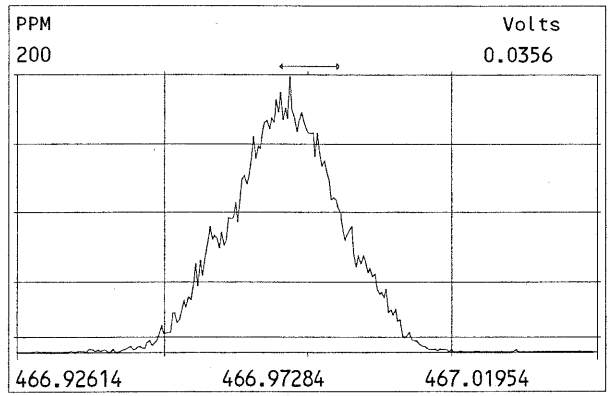
Peak Locate Examination: 1-AUG-2018:09:52 File:01AUG18Z
Experiment:1668PCB Function:6 Reference:PFK

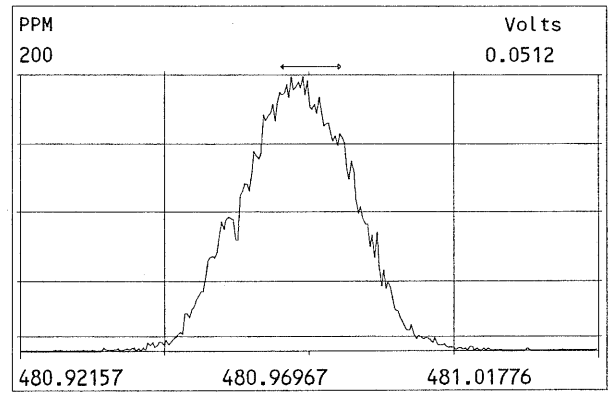


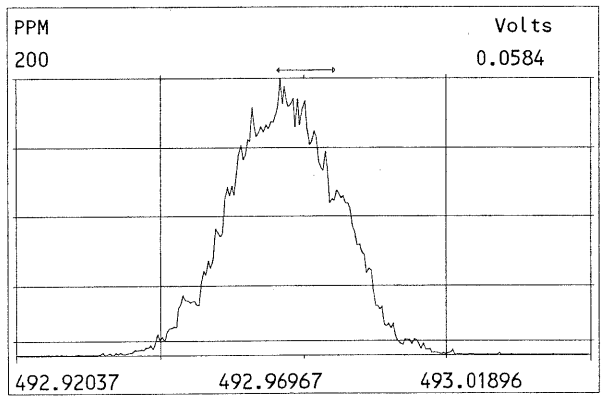


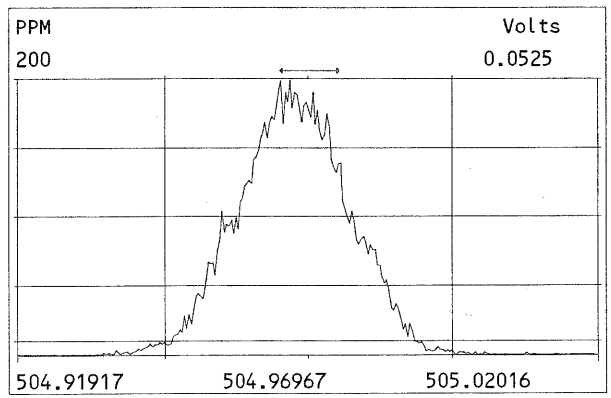


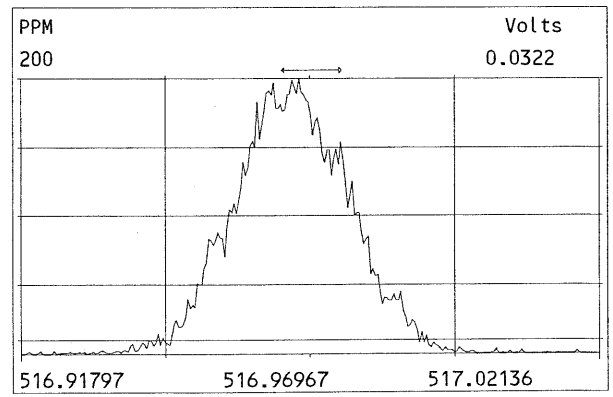




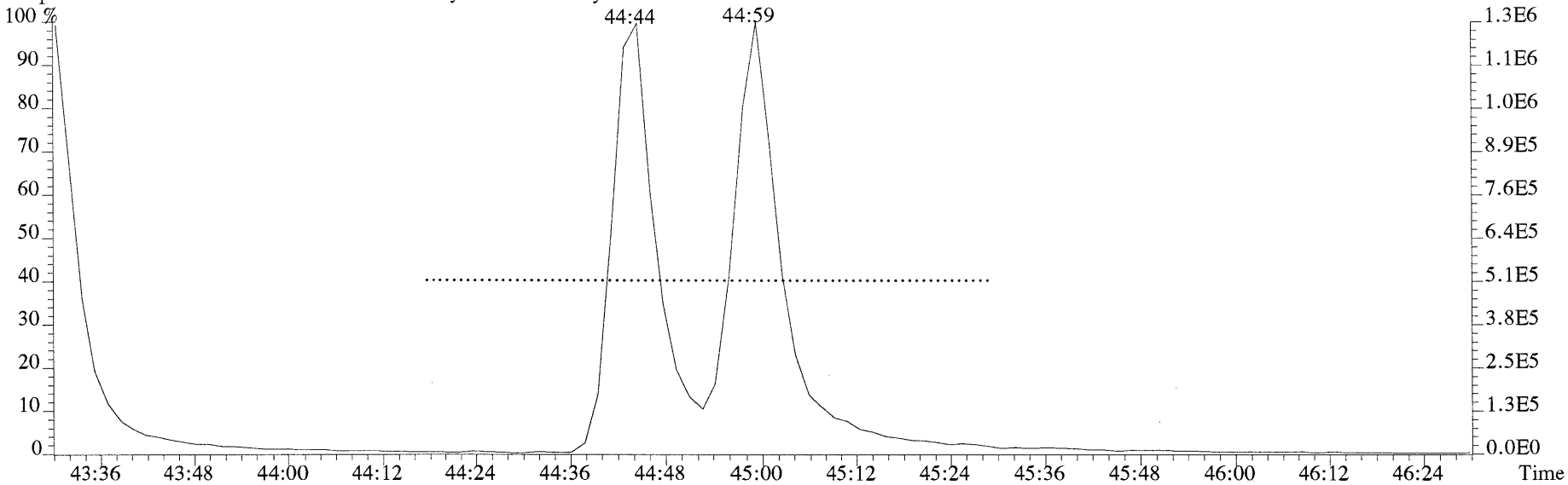




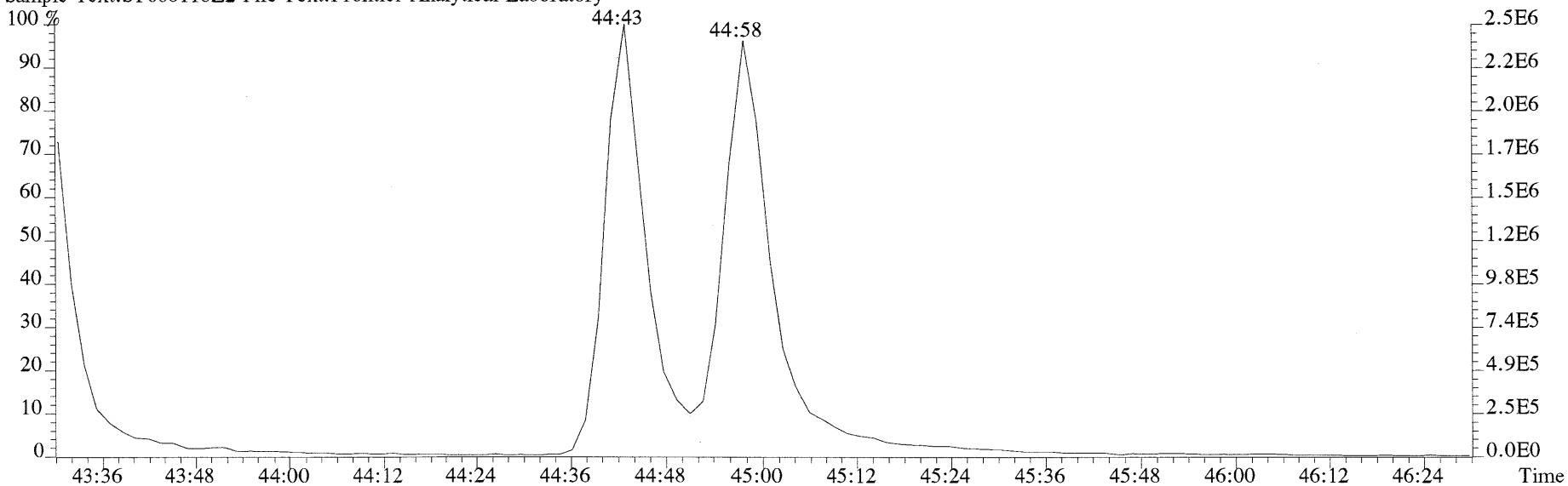




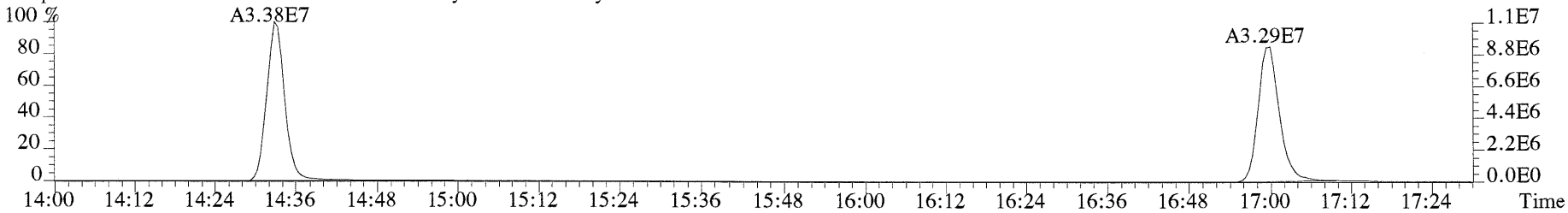
File:01AUG18Z #1-404 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:5 Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



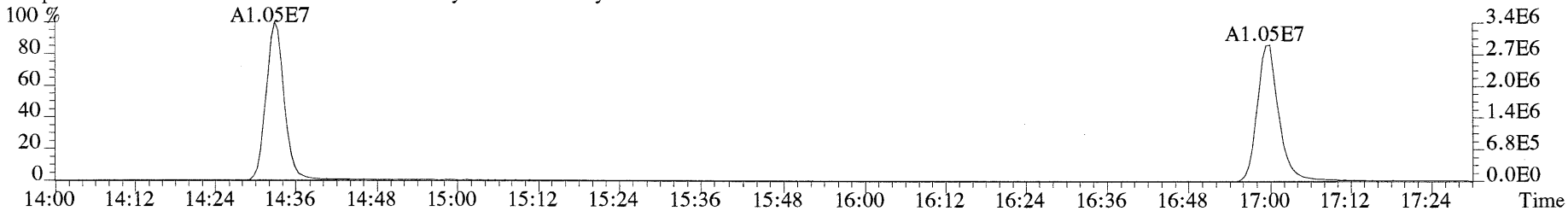
File:01AUG18Z #1-404 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:14 F:5 Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



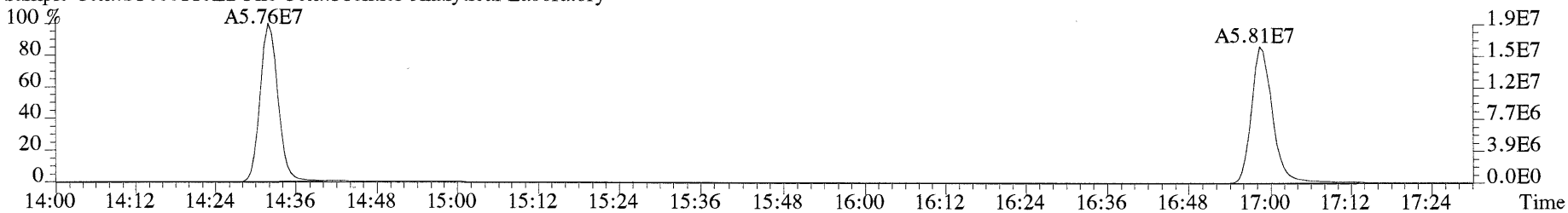
File:01AUG18Z #1-783 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



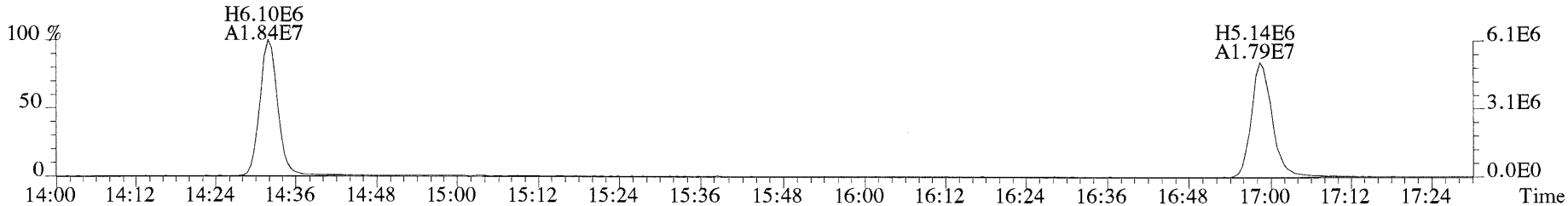
File:01AUG18Z #1-783 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



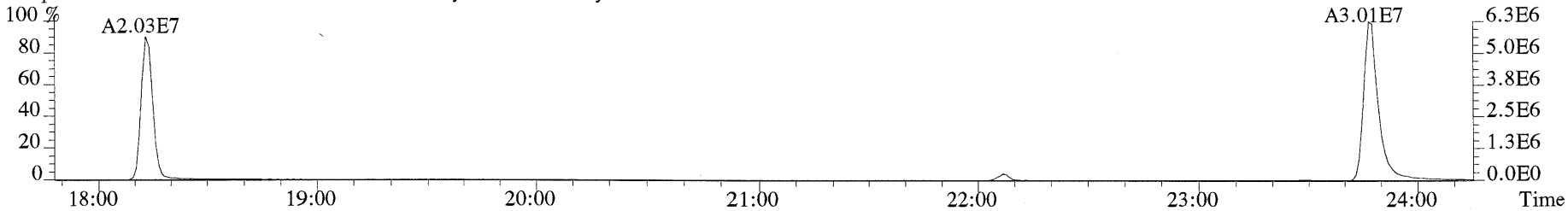
File:01AUG18Z #1-783 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



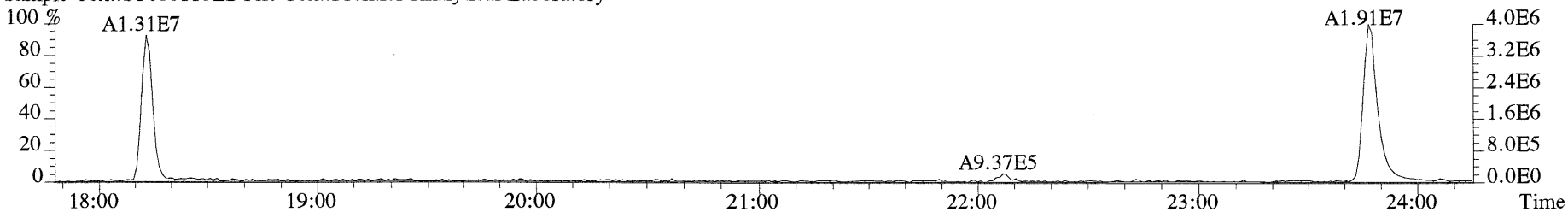
File:01AUG18Z #1-783 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



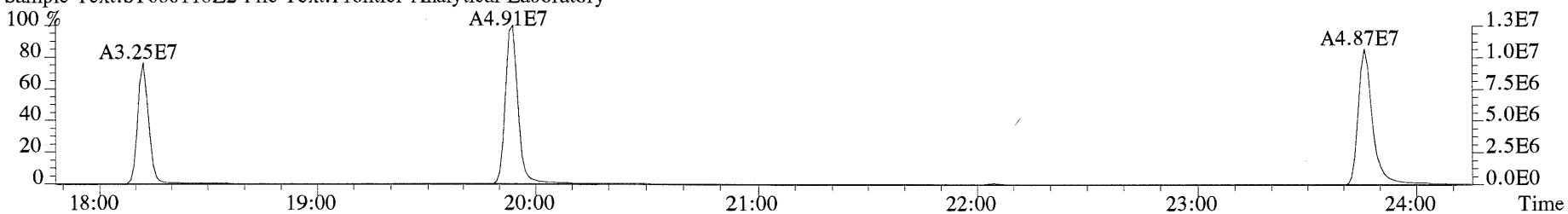
File:01AUG18Z #1-520 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



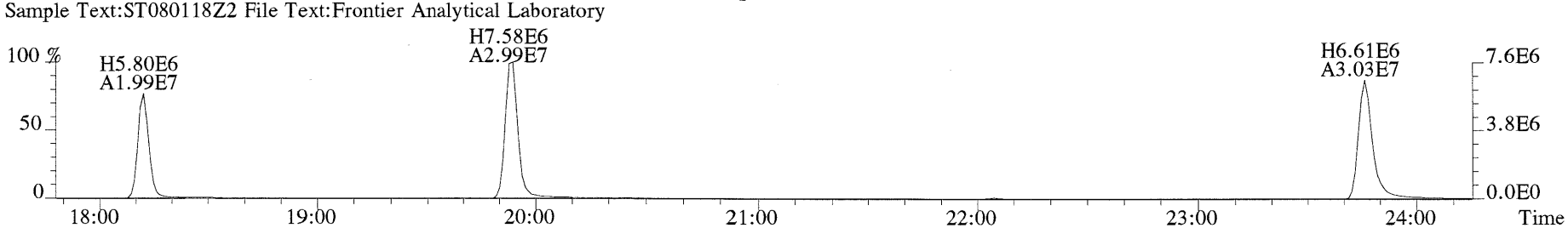
File:01AUG18Z #1-520 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



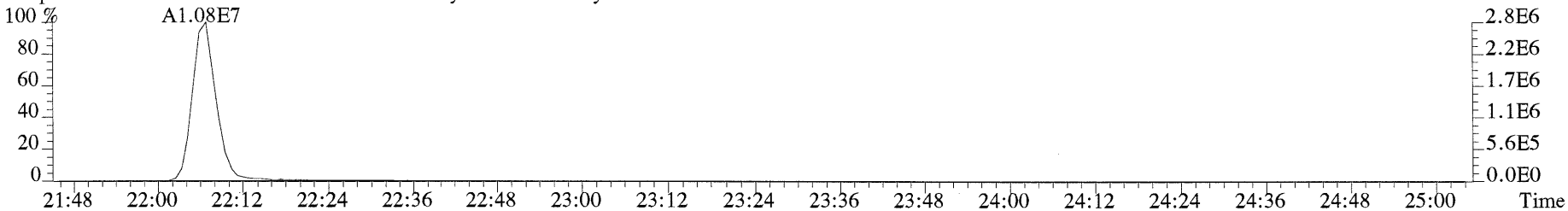
File:01AUG18Z #1-520 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



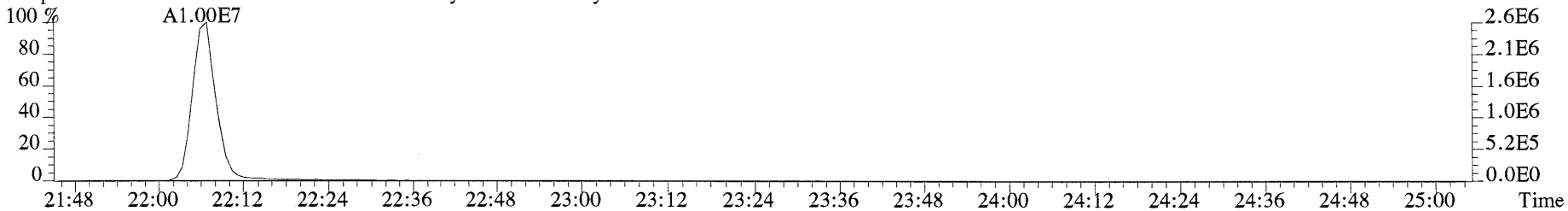
File:01AUG18Z #1-520 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



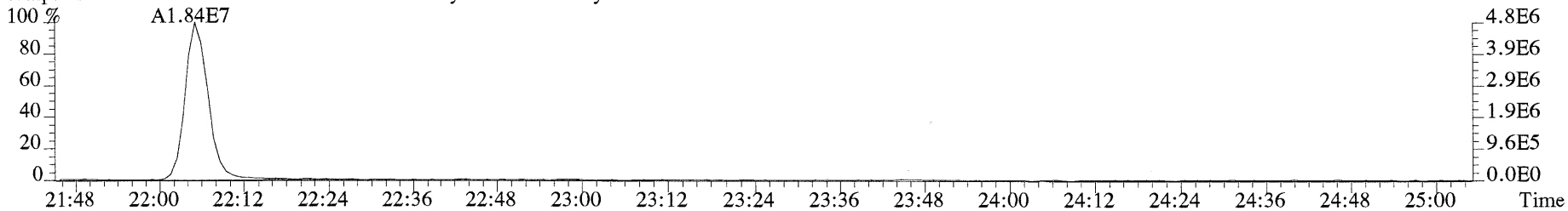
File:01AUG18Z #1-520 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



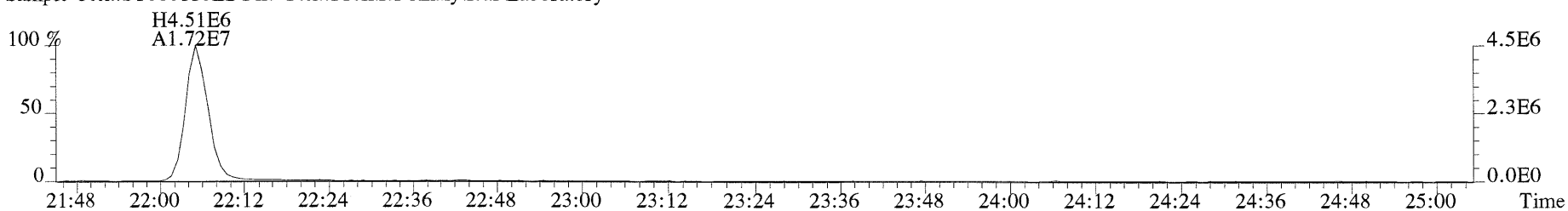
File:01AUG18Z #1-520 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



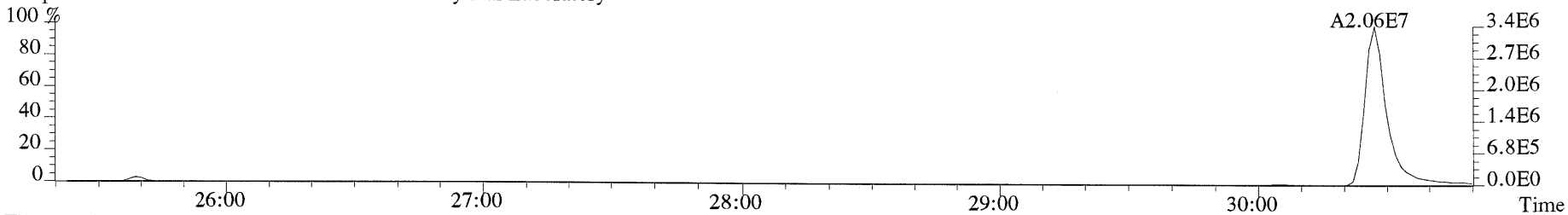
File:01AUG18Z #1-520 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



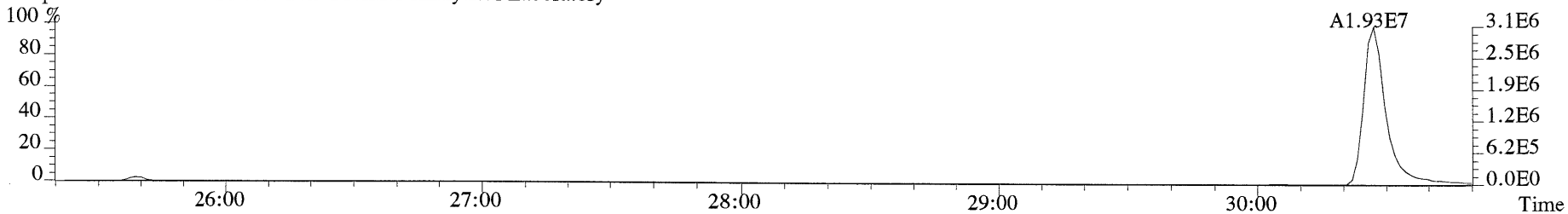
File:01AUG18Z #1-520 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



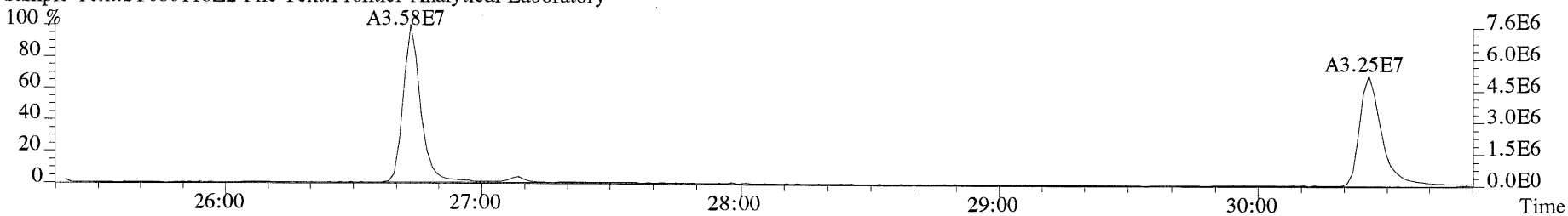
File:01AUG18Z #1-402 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



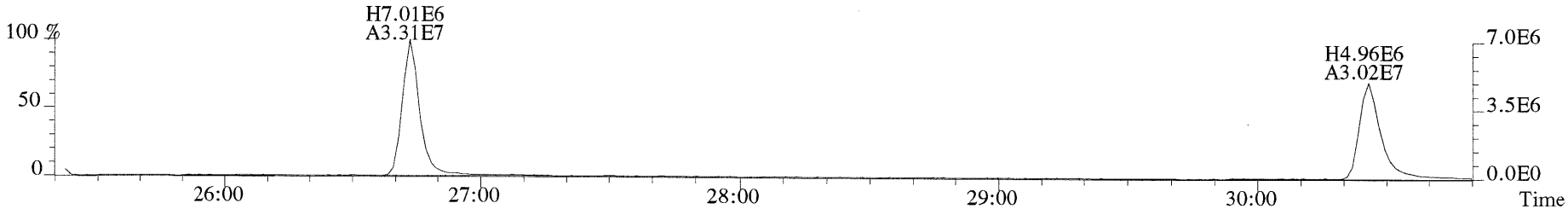
File:01AUG18Z #1-402 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



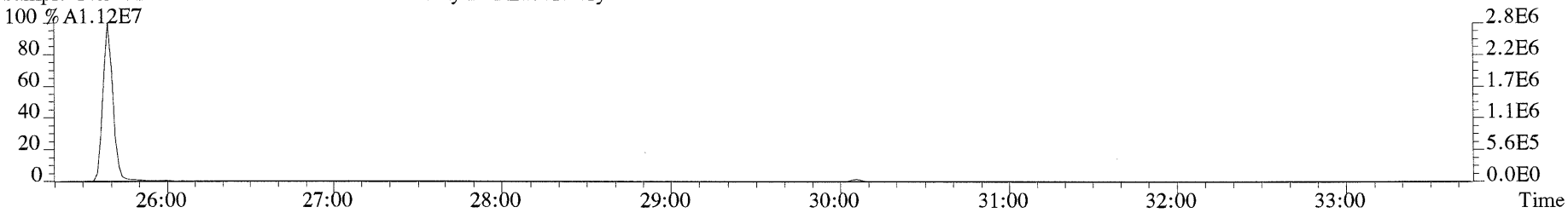
File:01AUG18Z #1-402 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



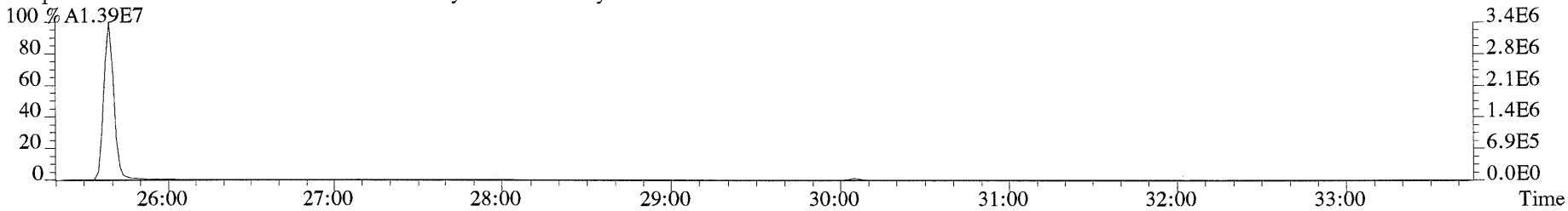
File:01AUG18Z #1-402 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



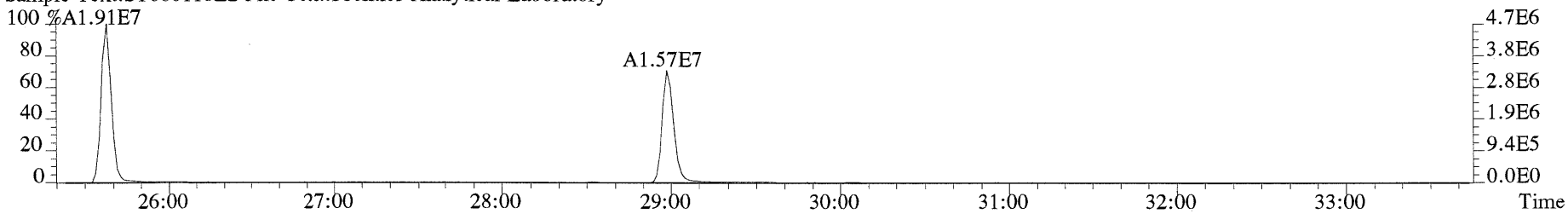
File:01AUG18Z #1-402 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



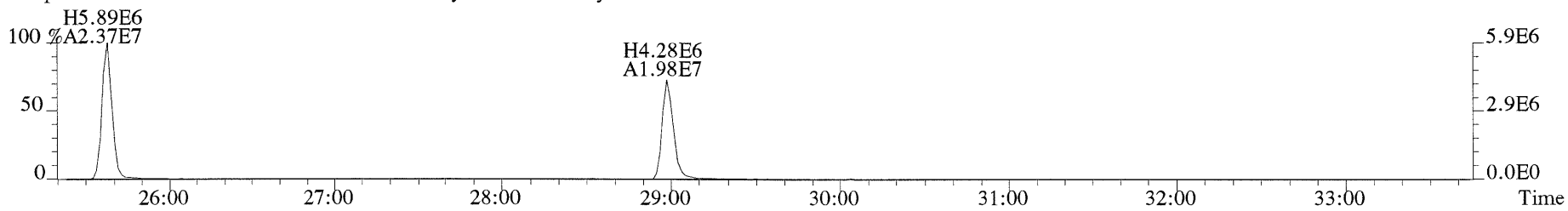
File:01AUG18Z #1-402 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



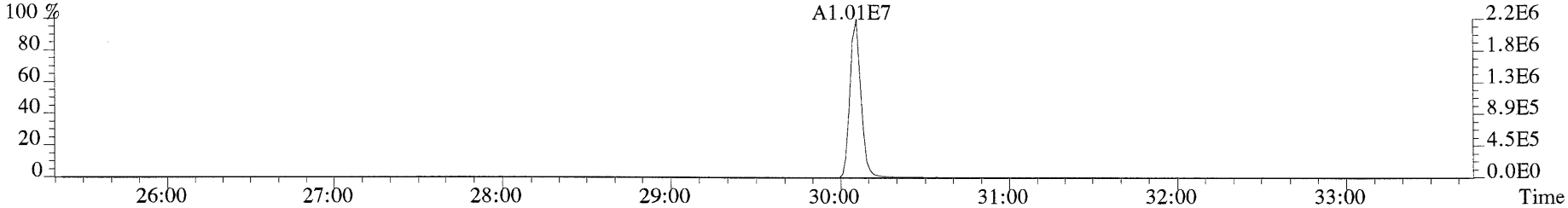
File:01AUG18Z #1-402 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



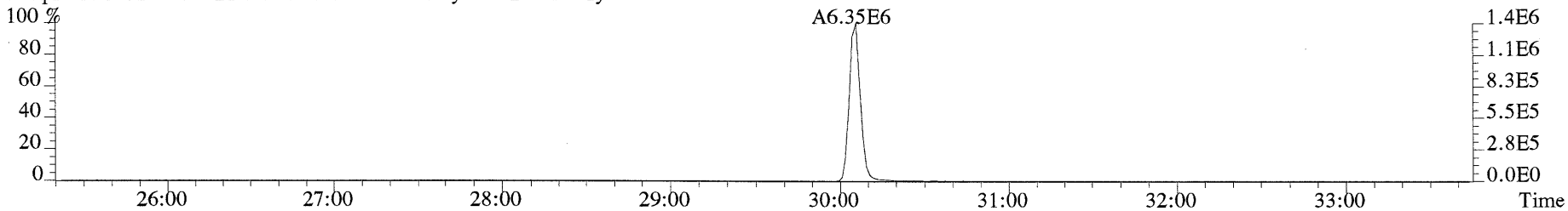
File:01AUG18Z #1-402 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-402 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-402 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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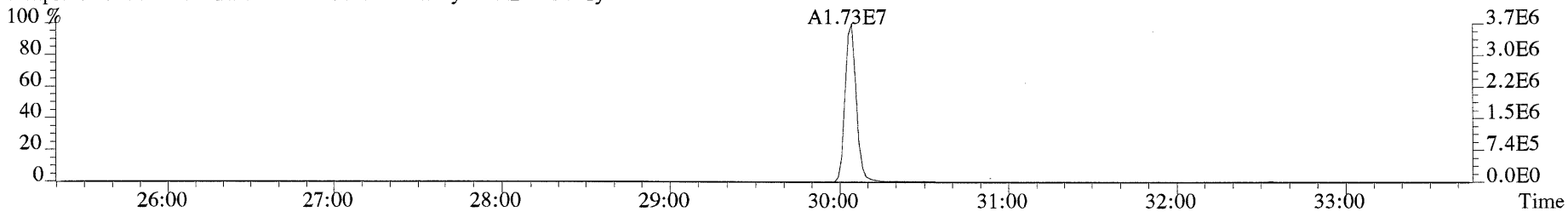
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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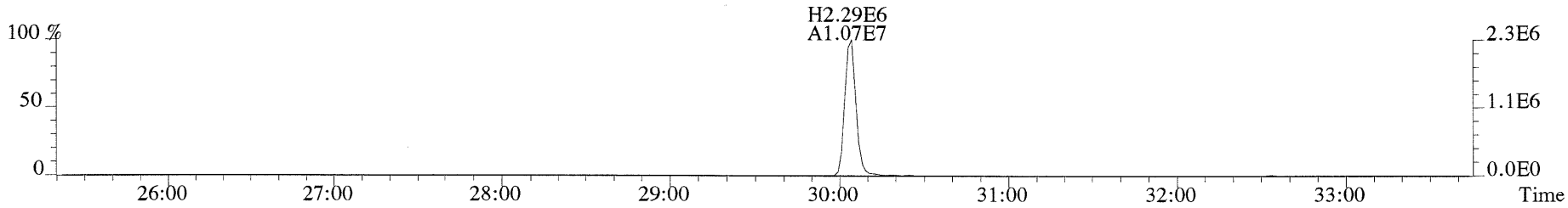
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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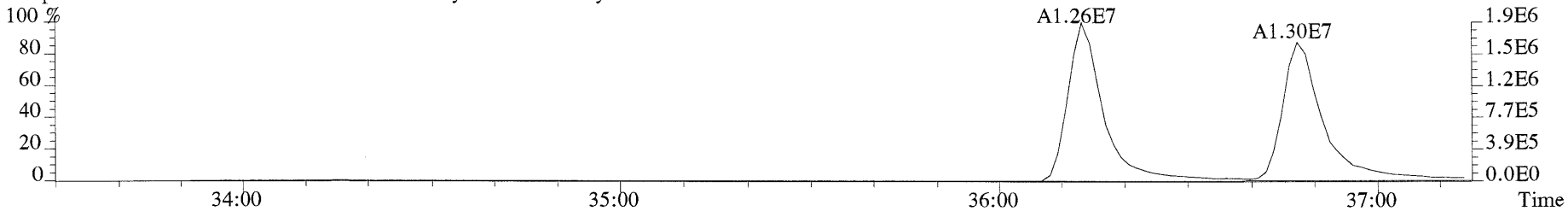
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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291.9194 S:14 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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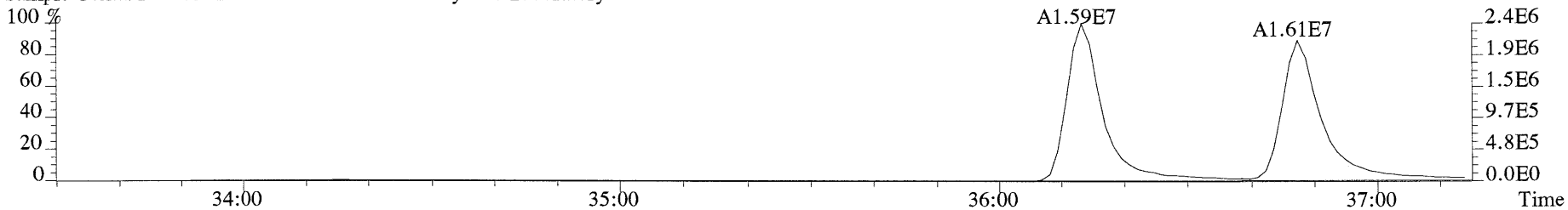

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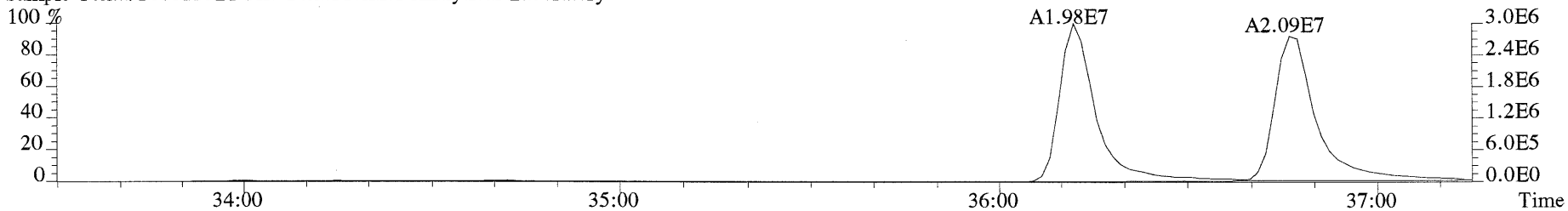
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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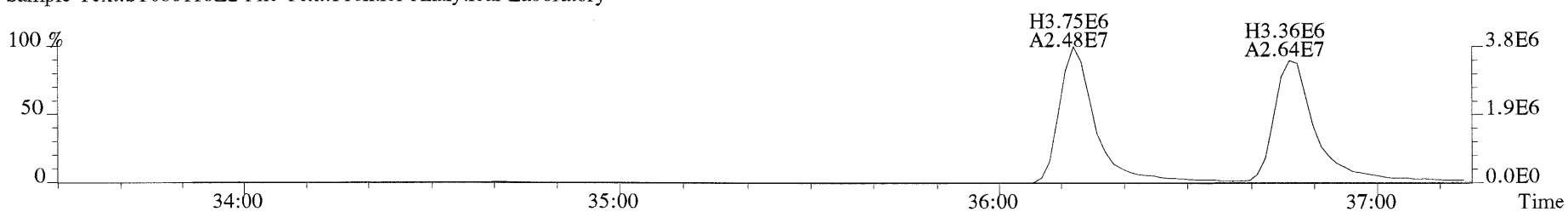
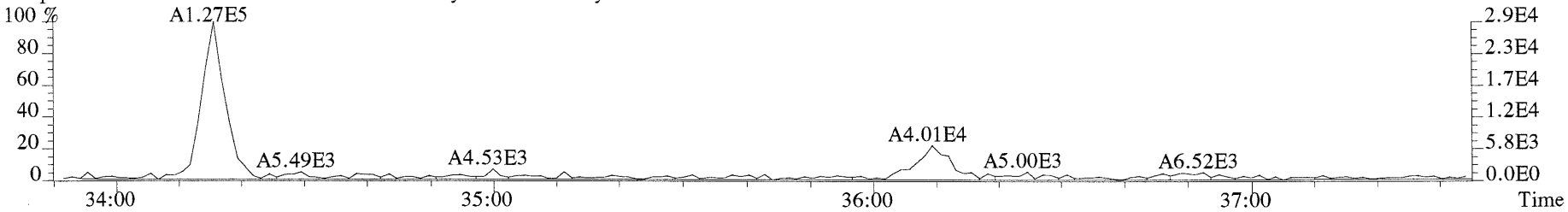
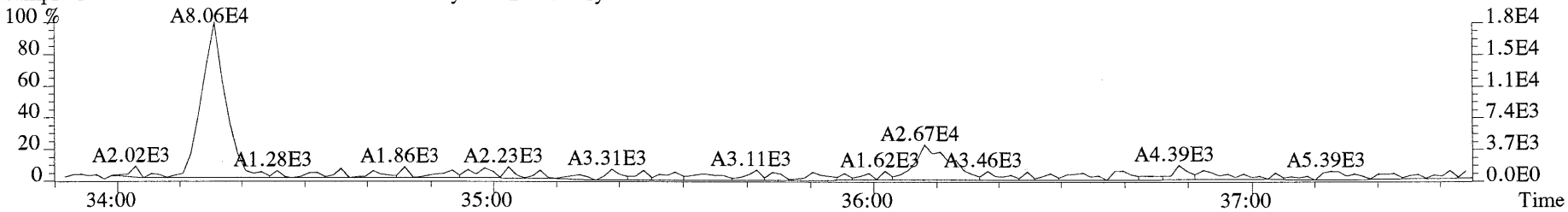
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-182 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-182 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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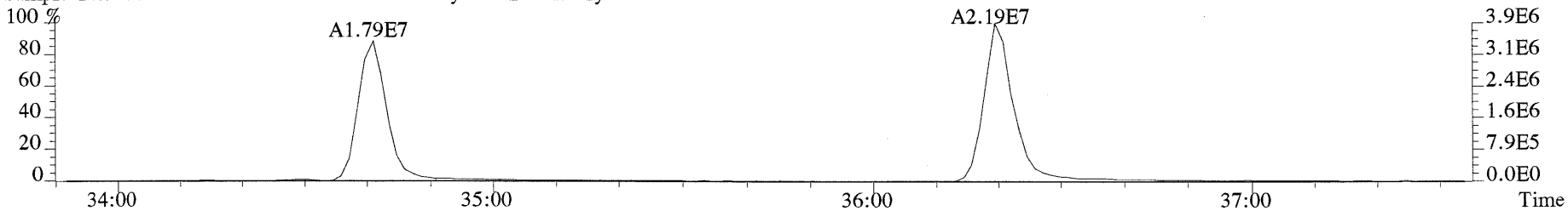
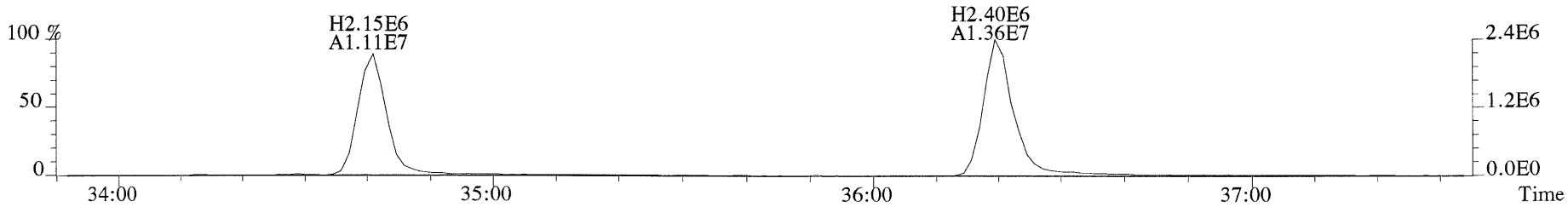
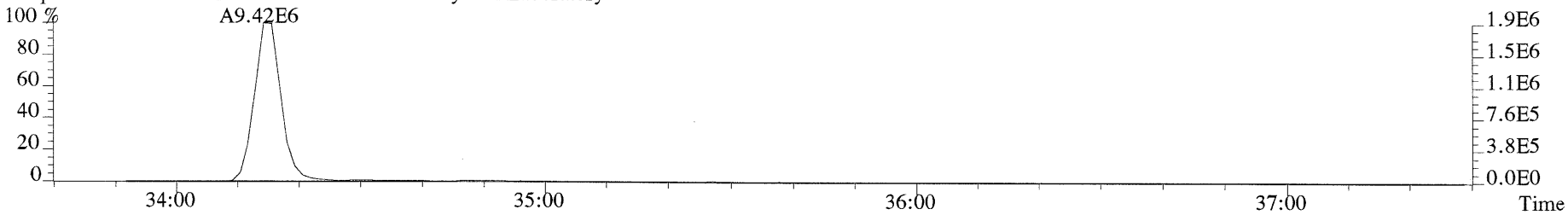
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-182 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-182 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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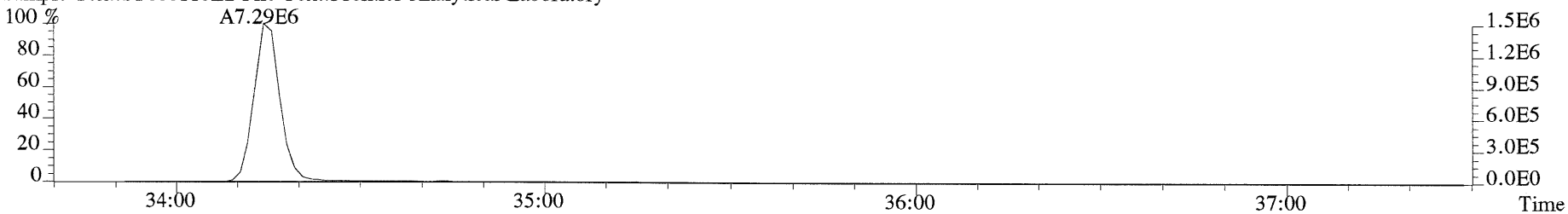
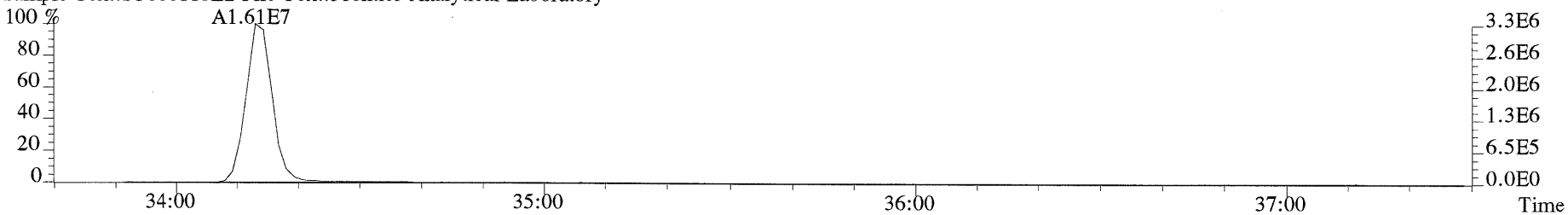
361.8385 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-182 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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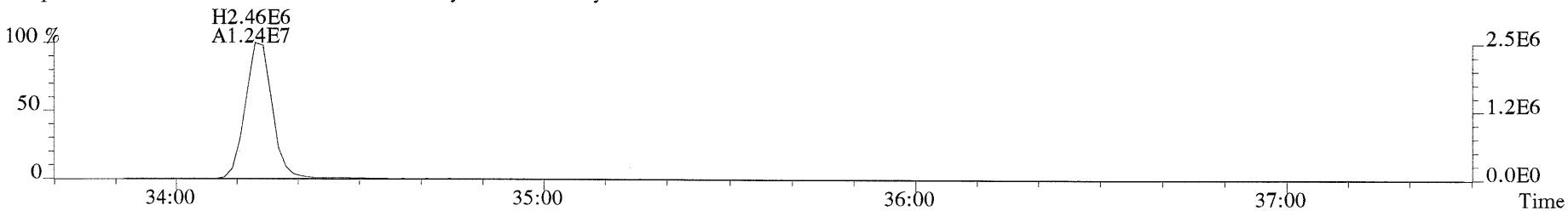
373.8788 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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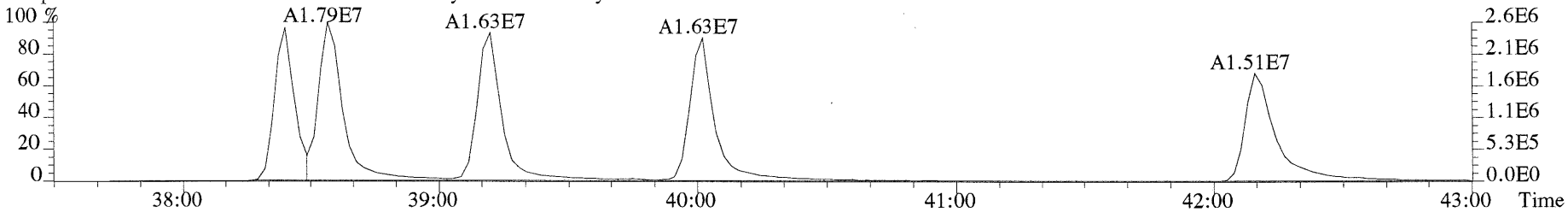
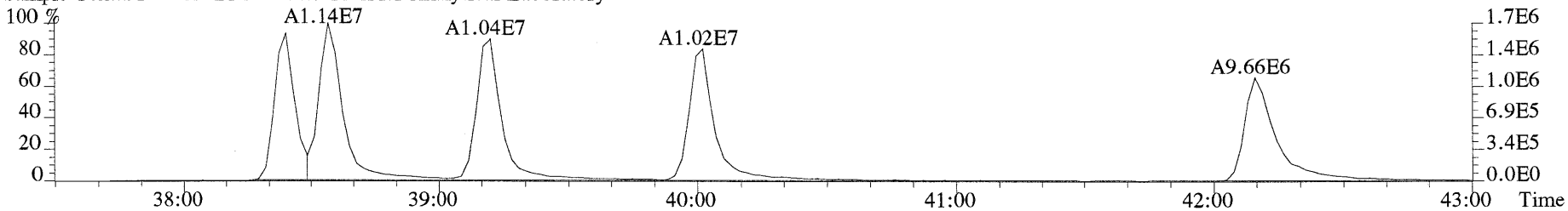
325.8804 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-404 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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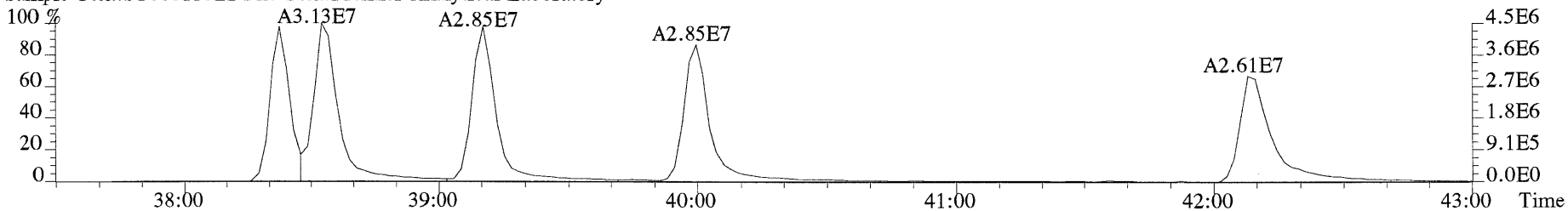
337.9207 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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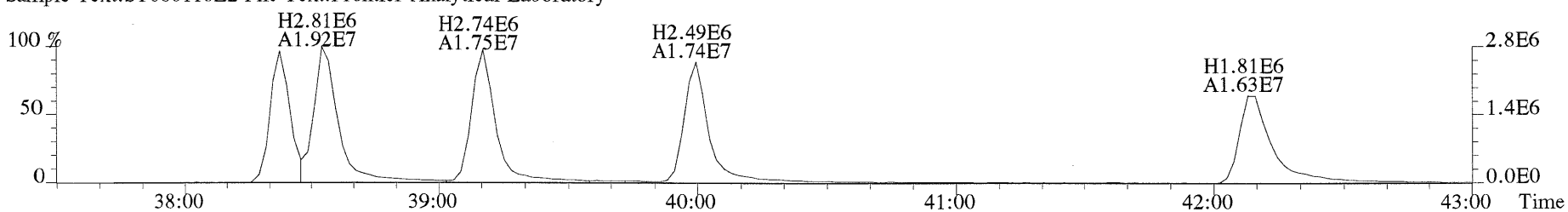
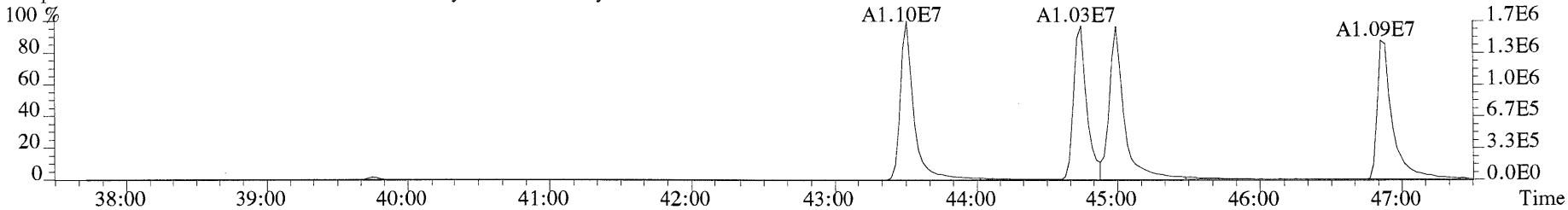
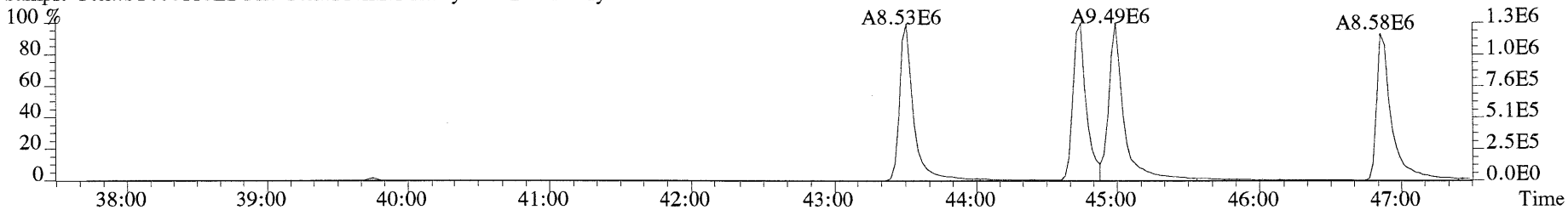
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



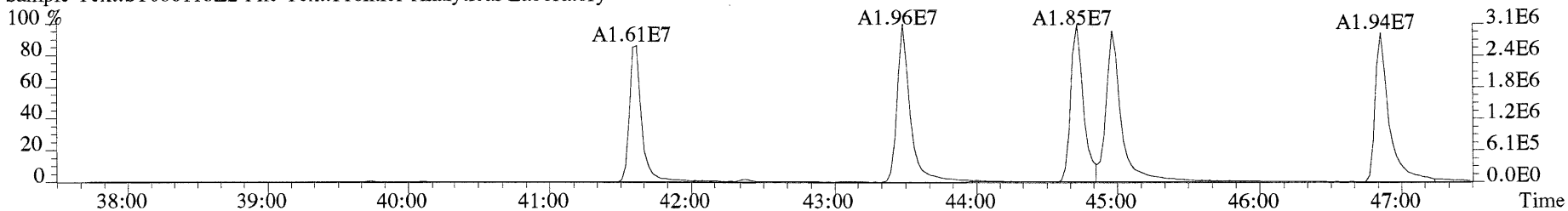
File:01AUG18Z #1-404 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-404 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-404 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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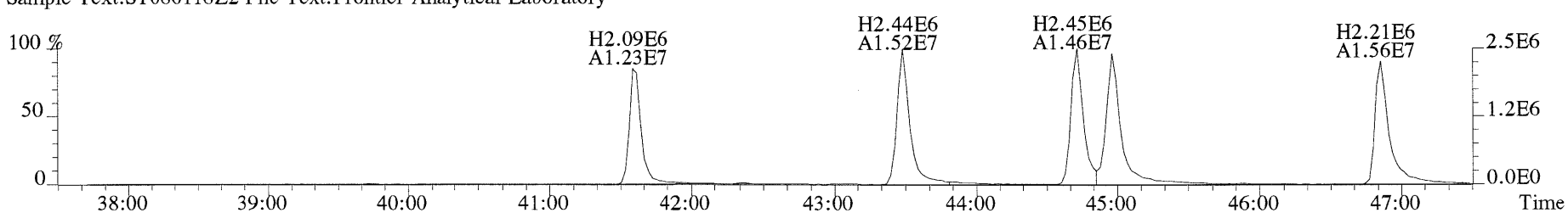
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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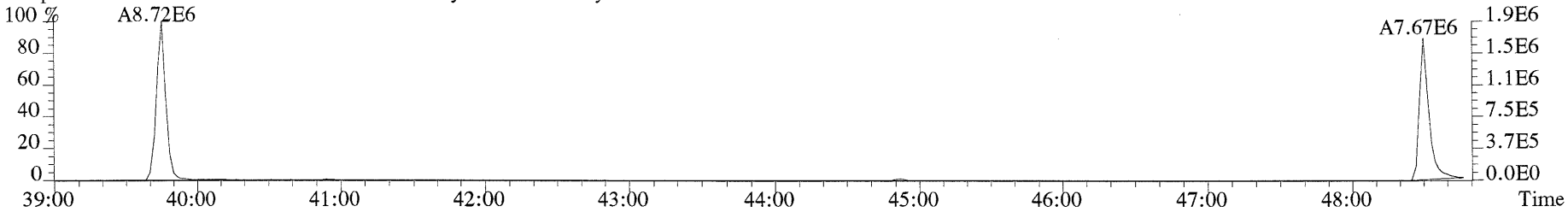
393.8025 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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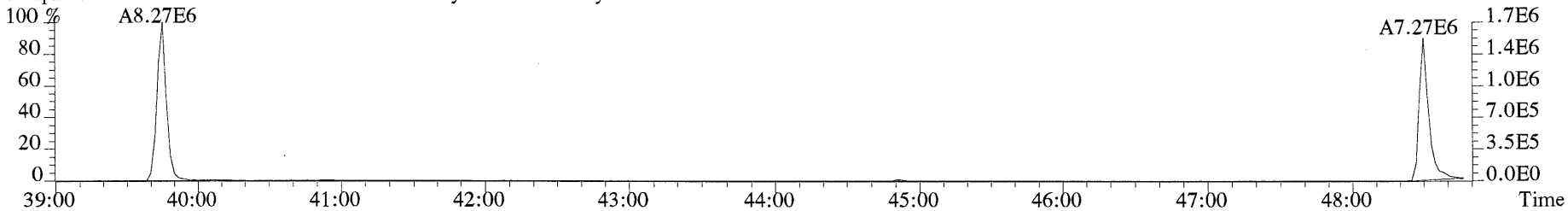
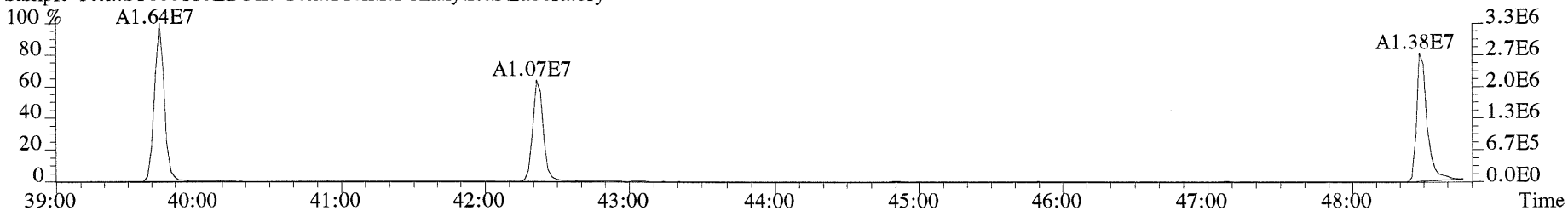
395.7995 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-404 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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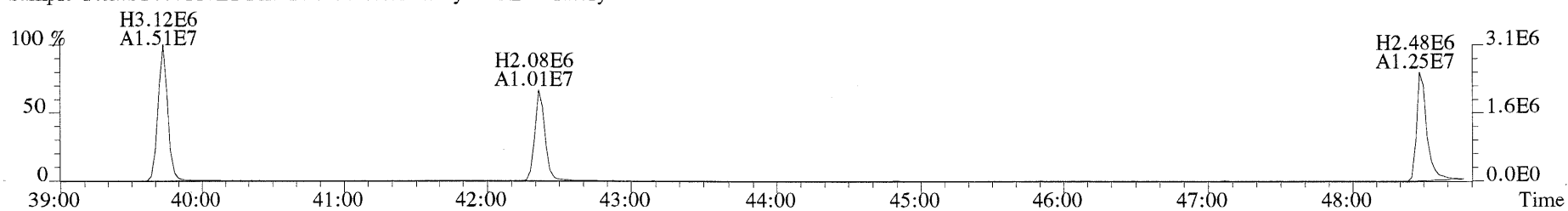
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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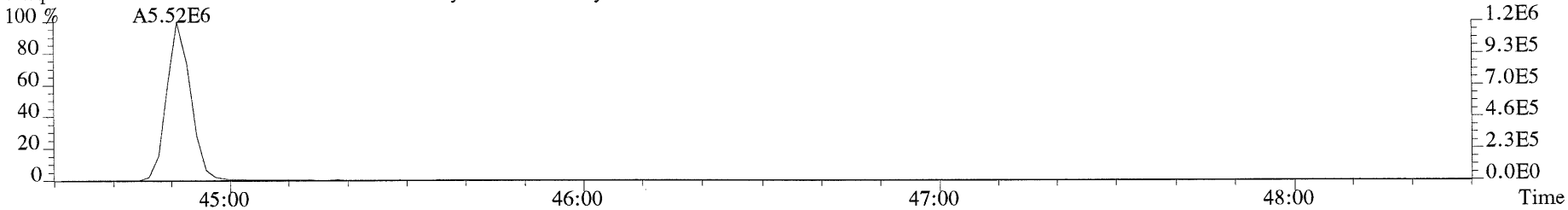
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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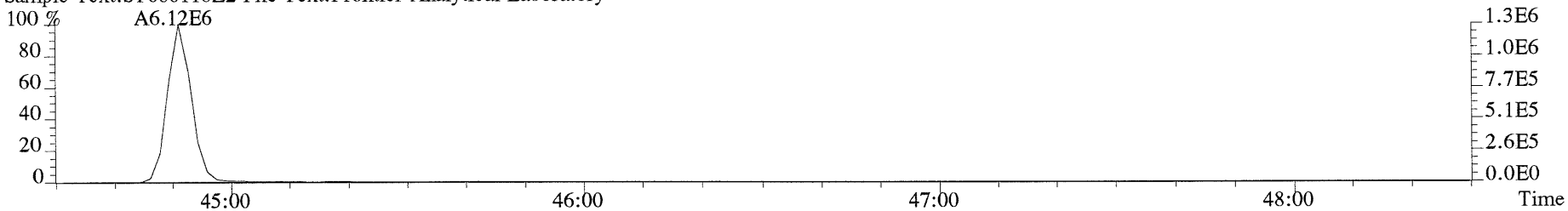
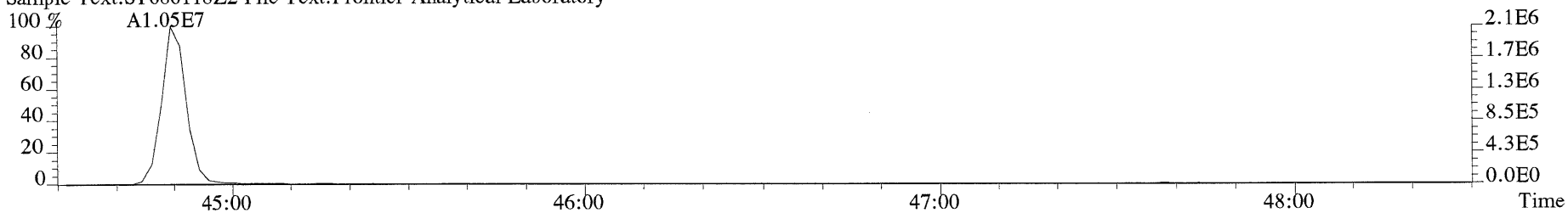
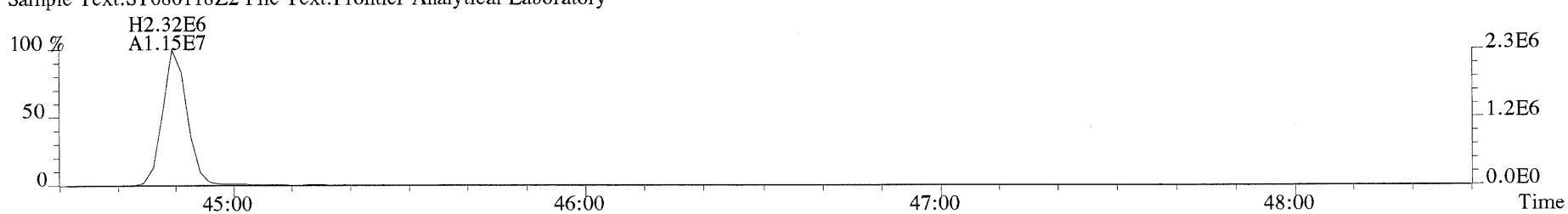
429.7606 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



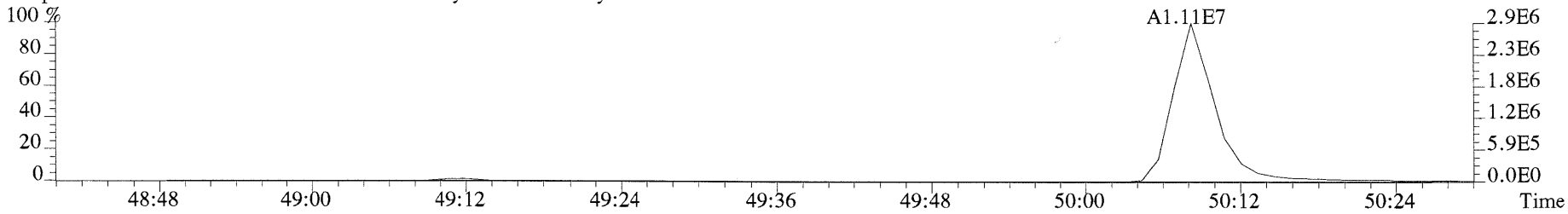
File:01AUG18Z #1-404 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-404 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-314 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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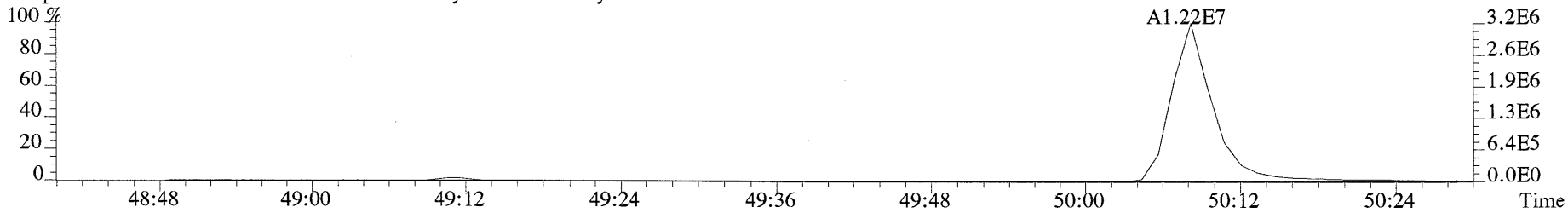
429.7606 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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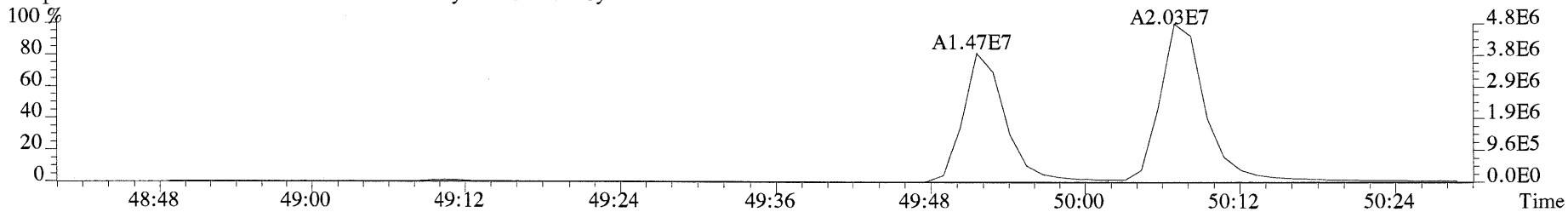
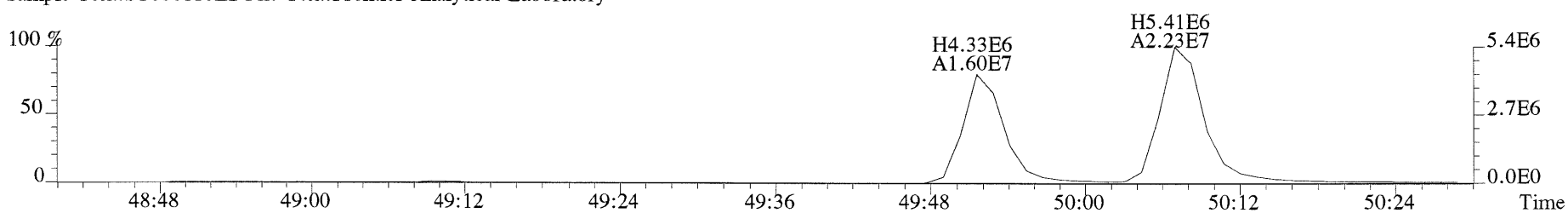
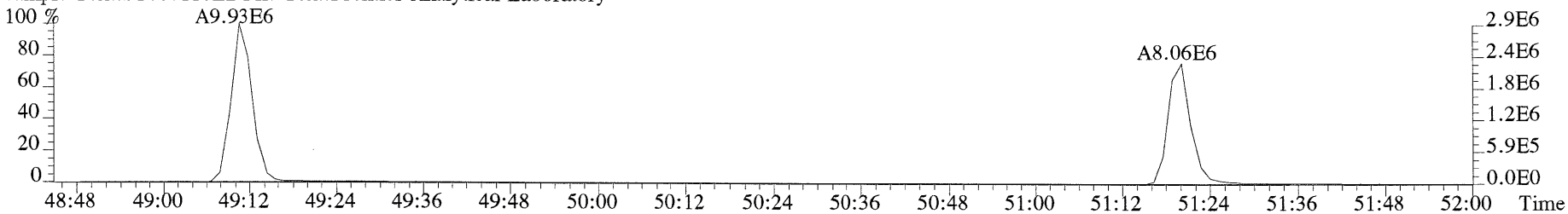
439.8038 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



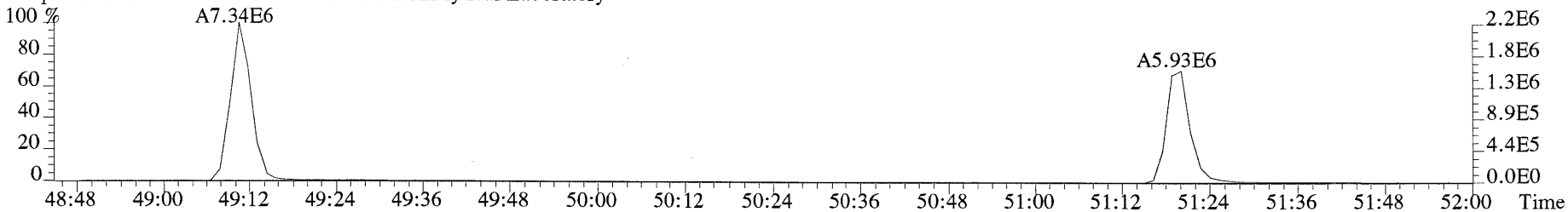
File:01AUG18Z #1-314 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-314 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-314 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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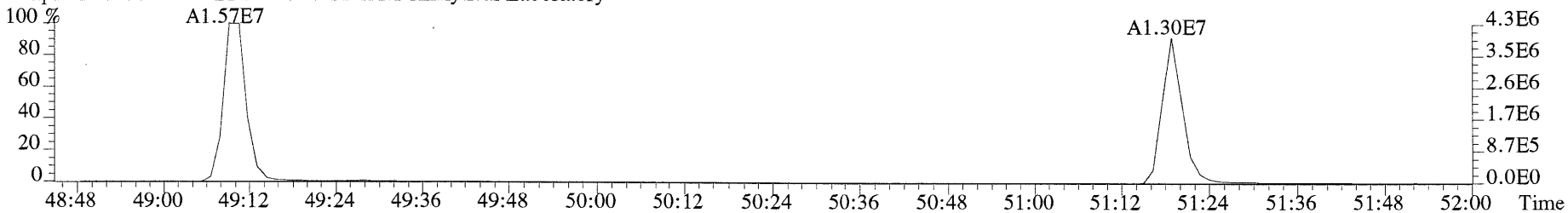
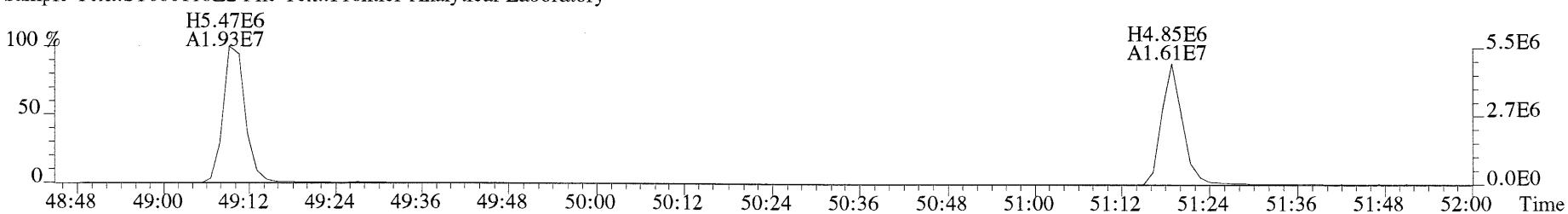
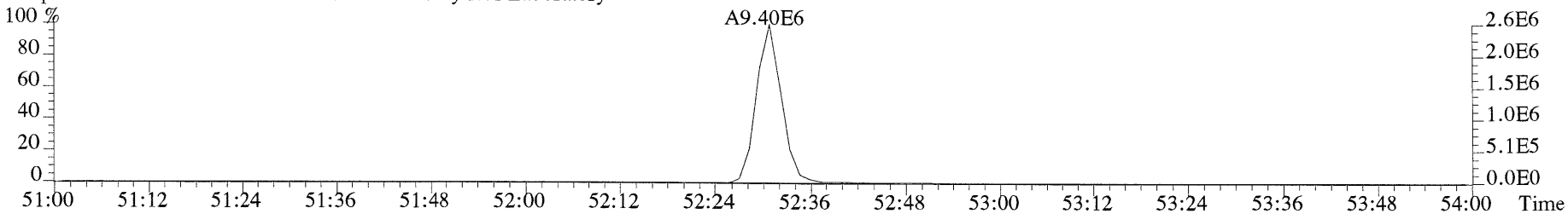
473.7648 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-314 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



File:01AUG18Z #1-314 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



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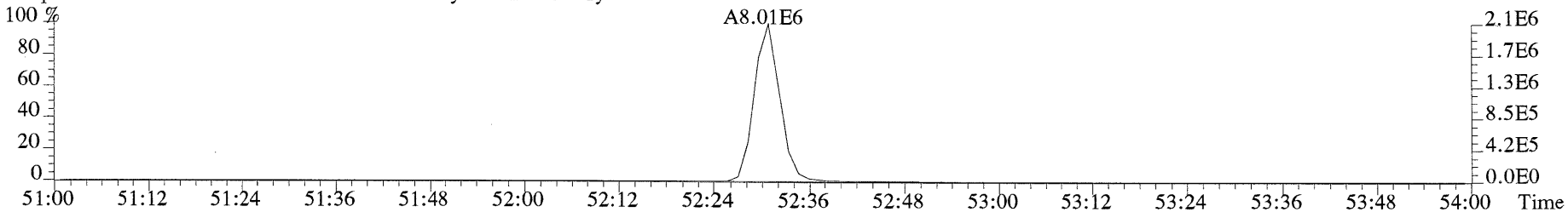
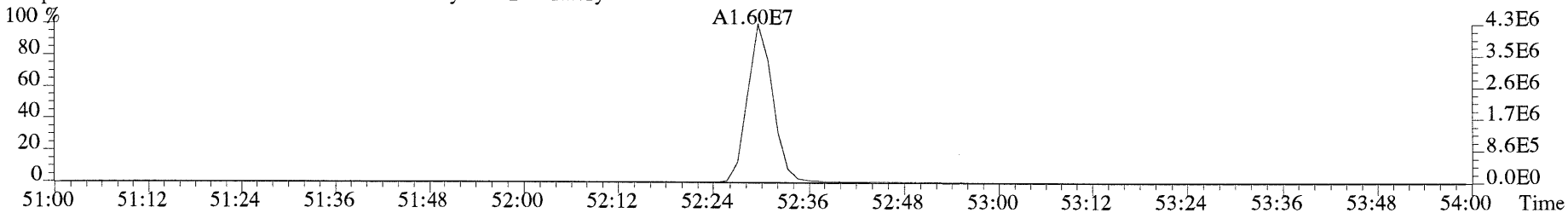
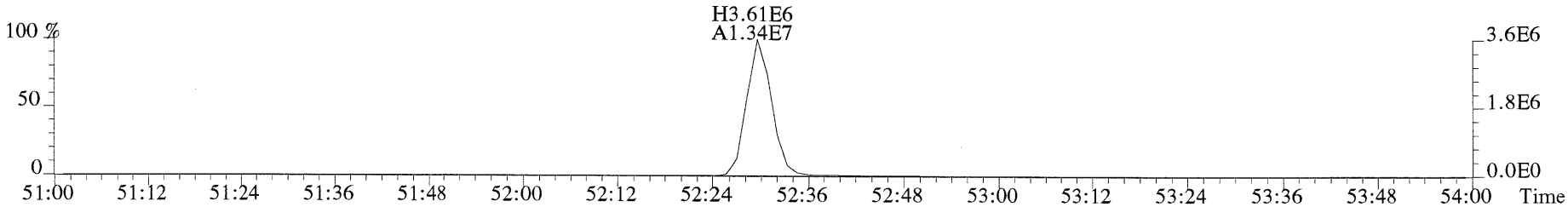
499.6797 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory



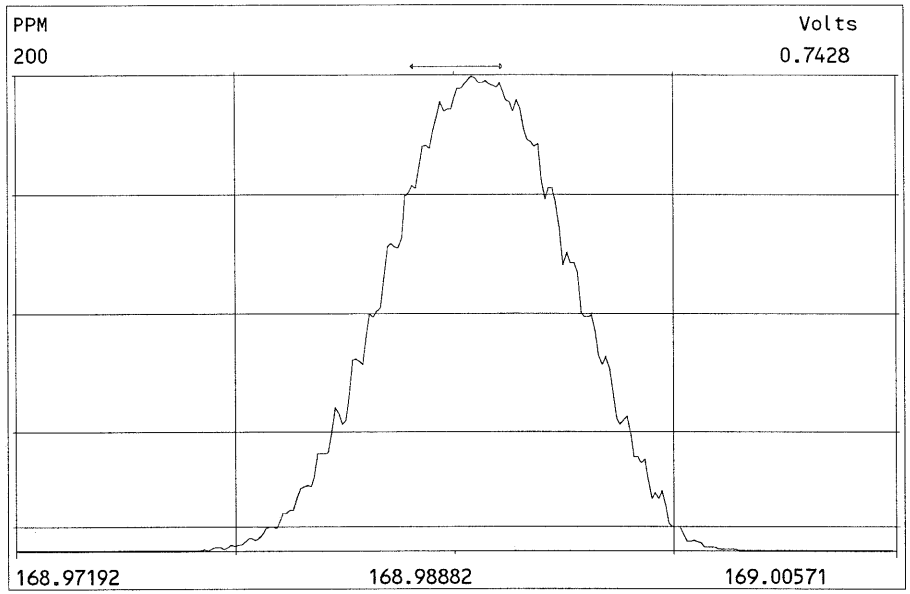
File:01AUG18Z #1-314 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory

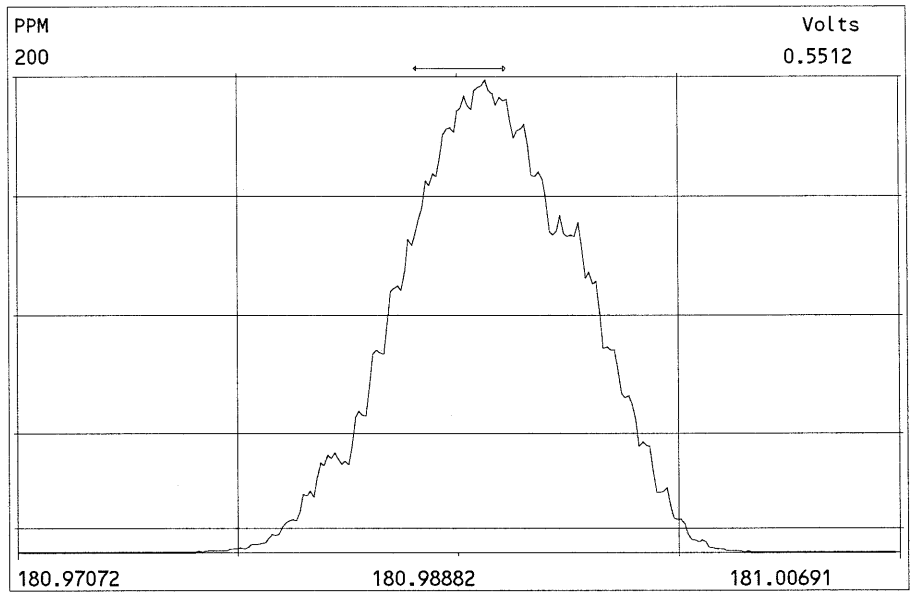


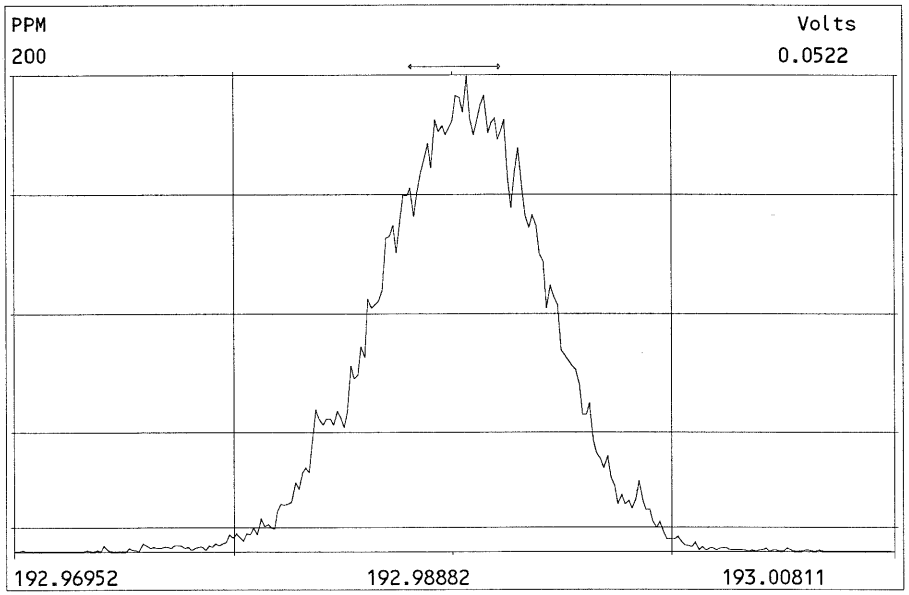
File:01AUG18Z #1-314 Acq: 1-AUG-2018 22:33:31 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080118Z2 File Text:Frontier Analytical Laboratory

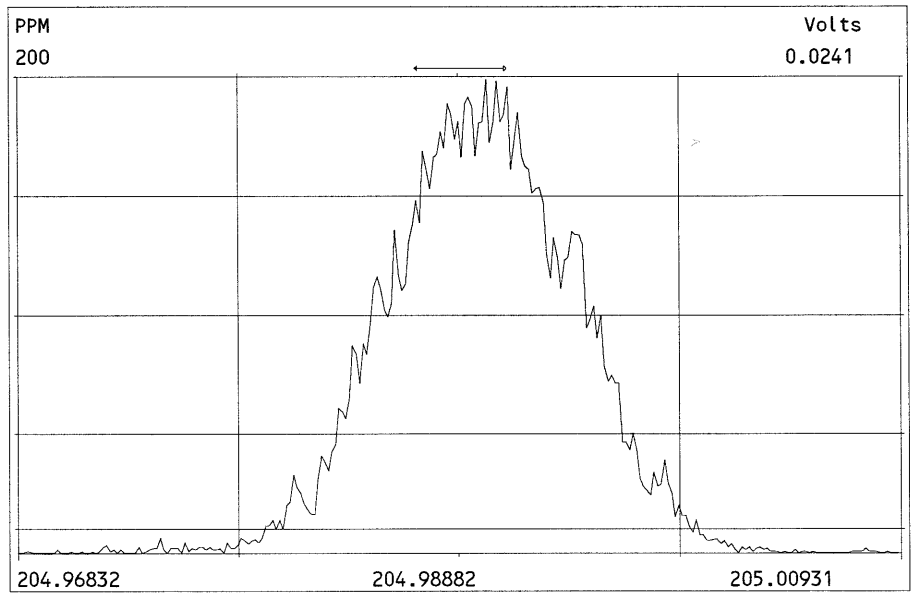


Peak Locate Examination: 2-AUG-2018:00:00 File:01AUG18Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

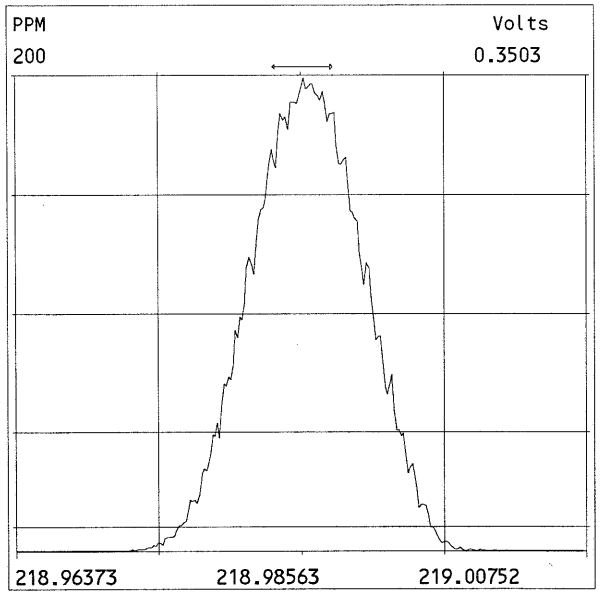


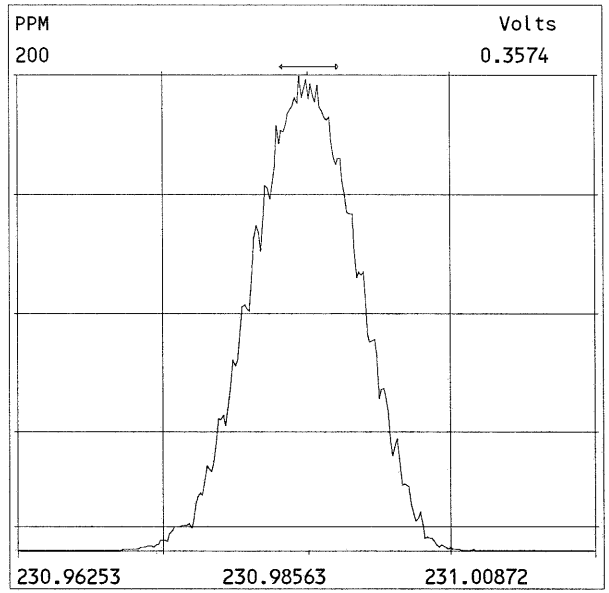


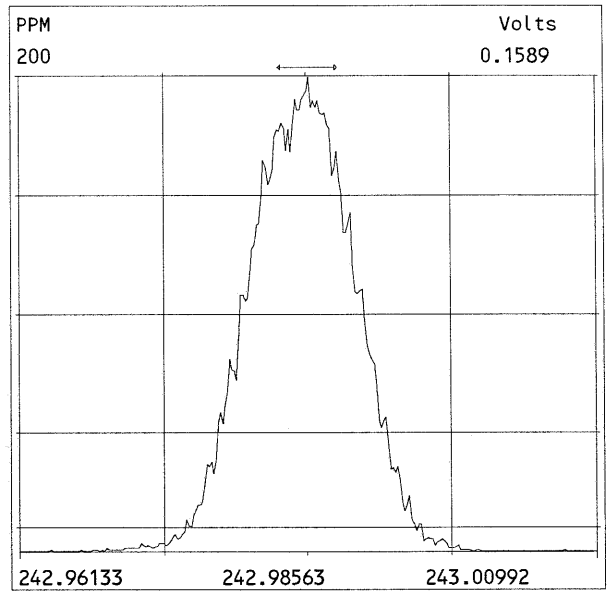


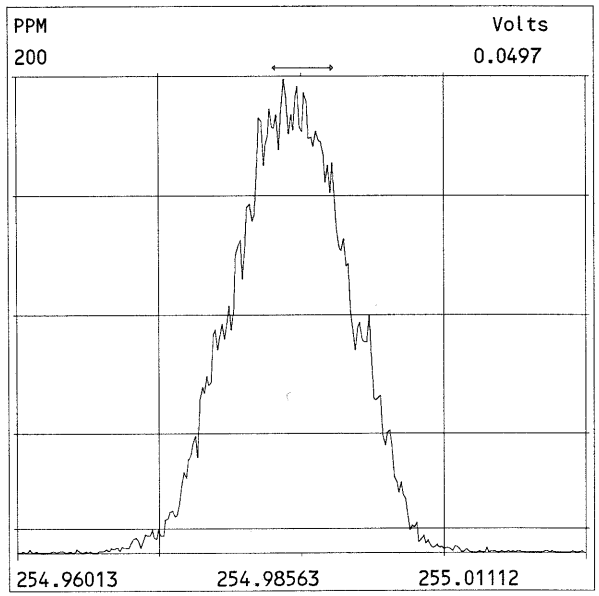


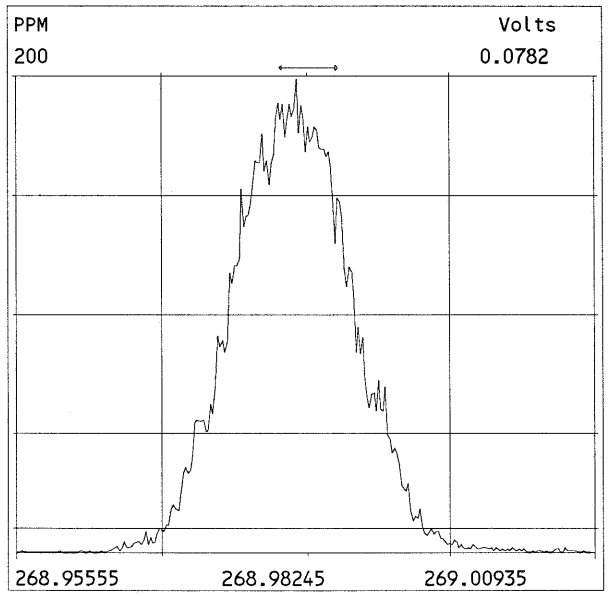
Peak Locate Examination: 2-AUG-2018:00:03 File:01AUG18Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

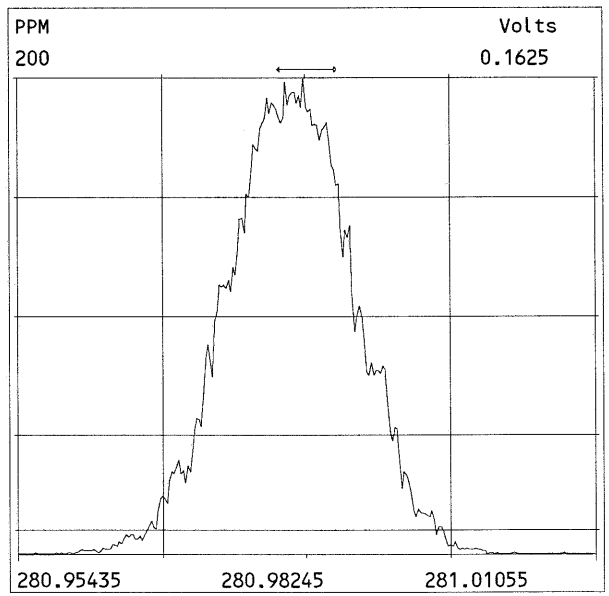




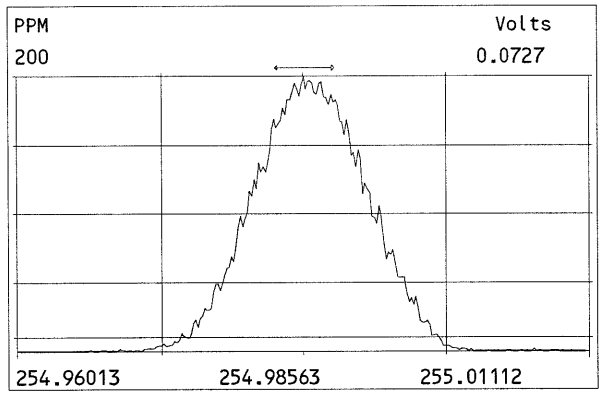


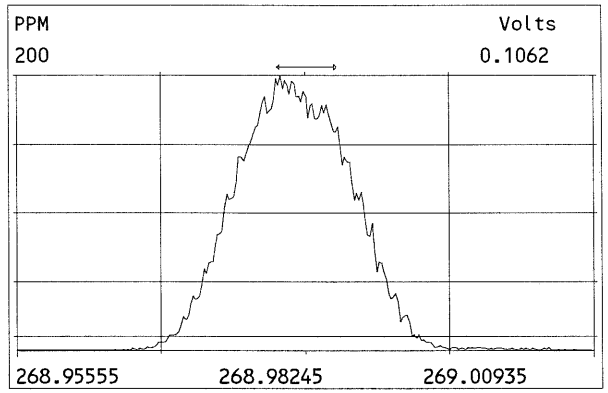


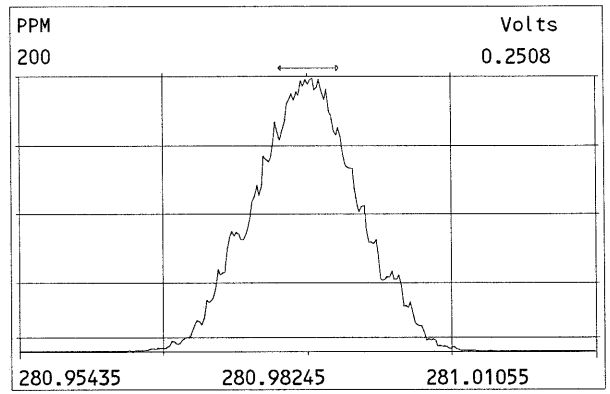


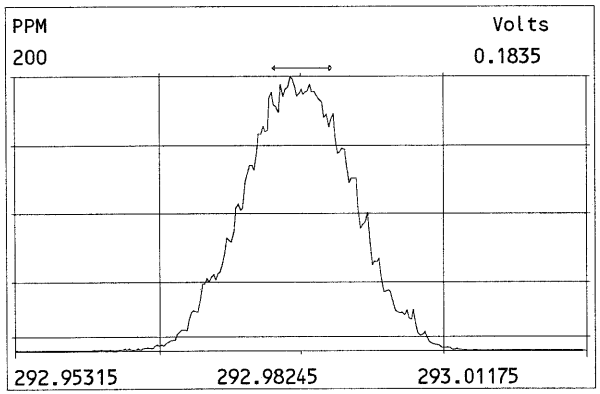


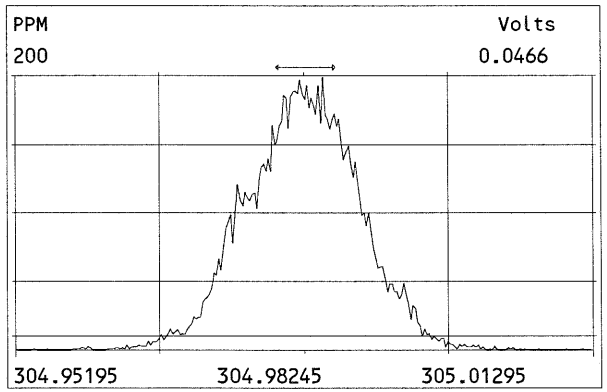
Peak Locate Examination: 2-AUG-2018:00:05 File:01AUG18Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

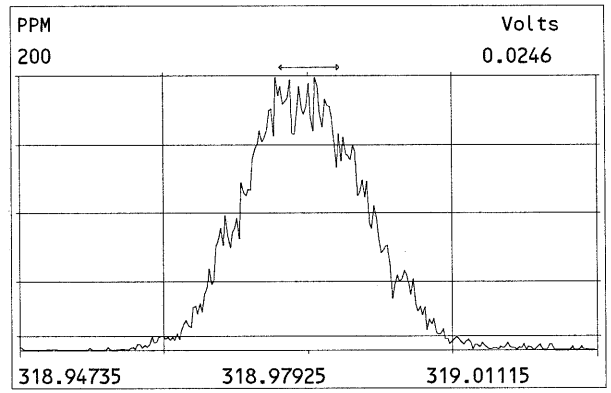


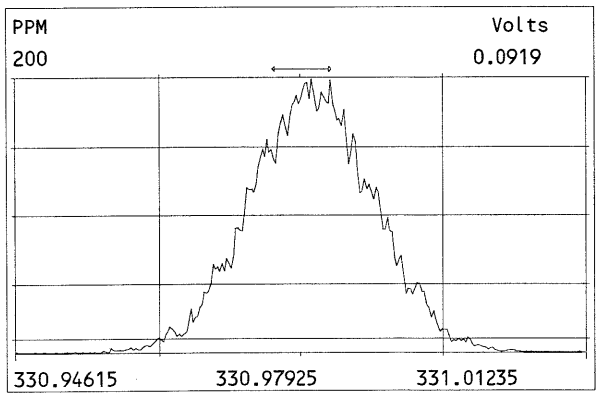


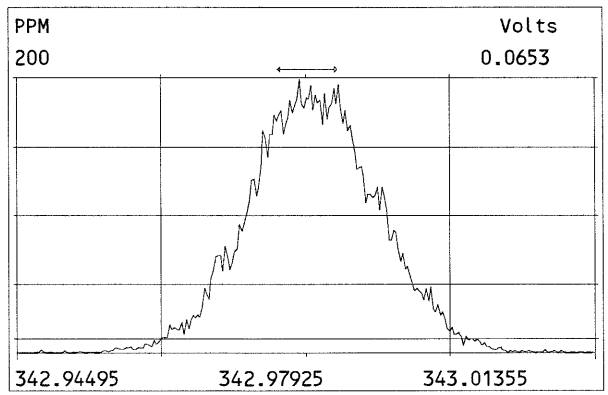




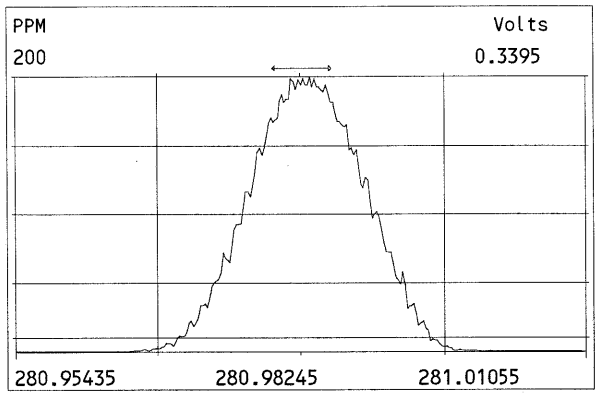


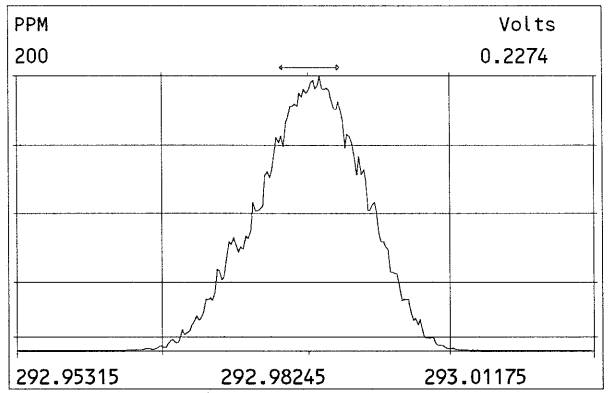


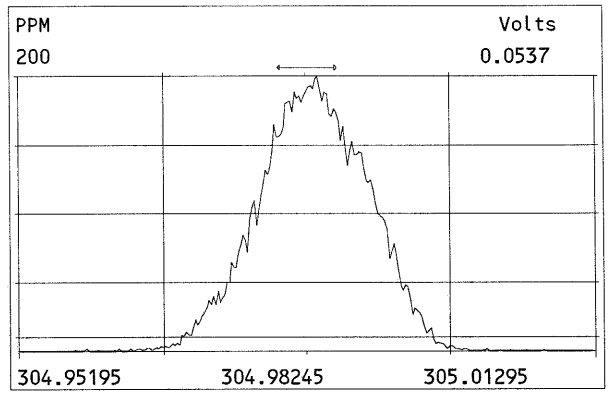


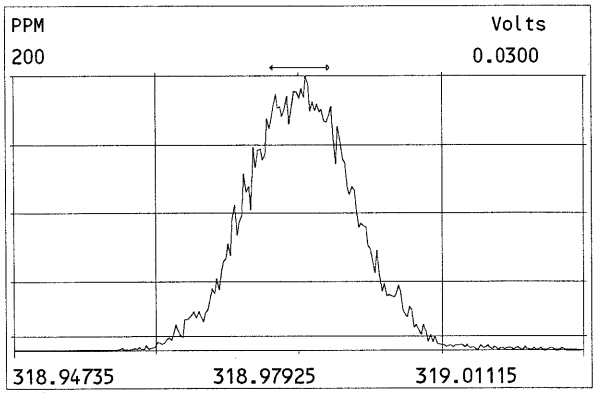


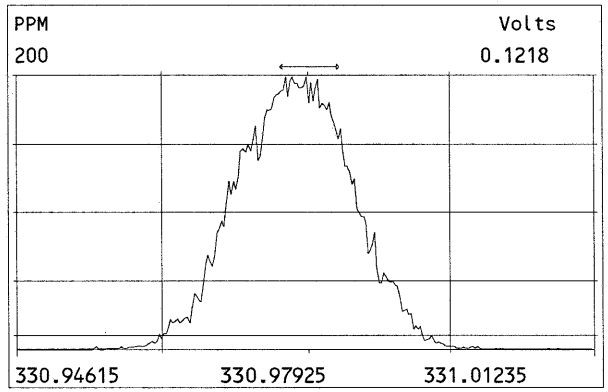
Peak Locate Examination: 2-AUG-2018:00:07 File:01AUG18Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

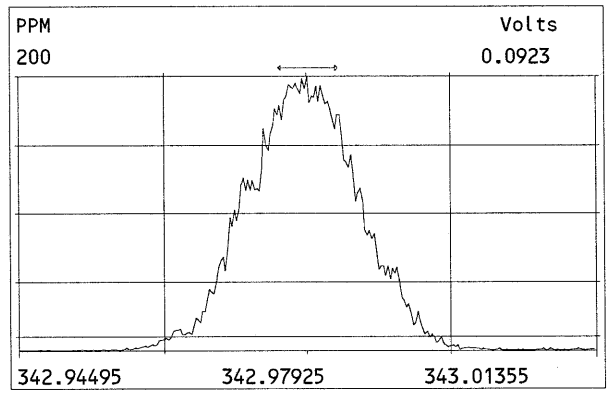


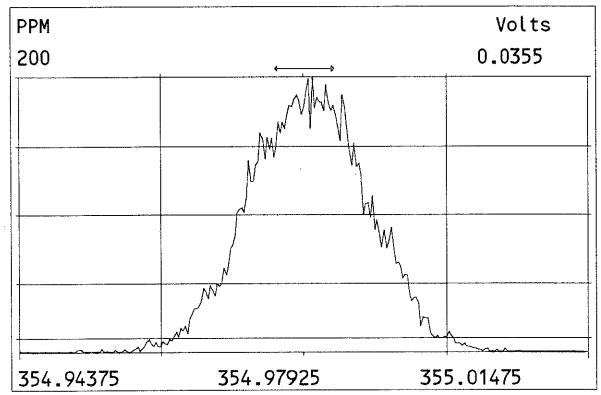


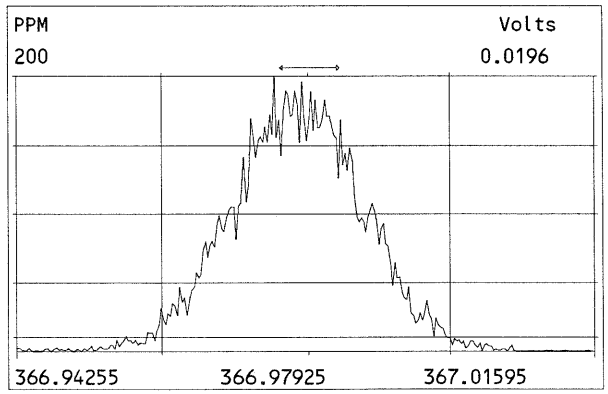


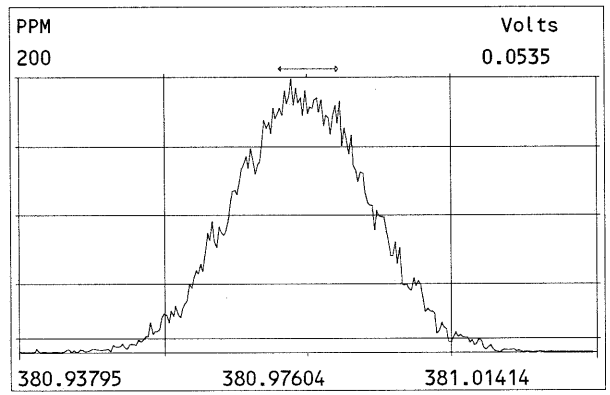




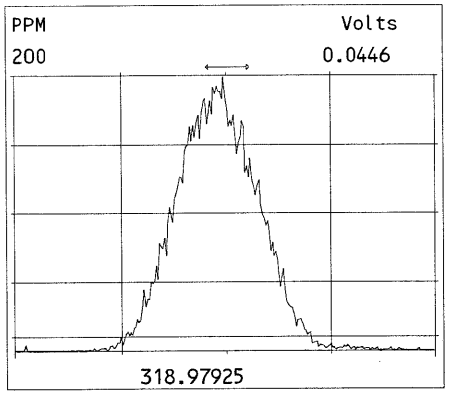


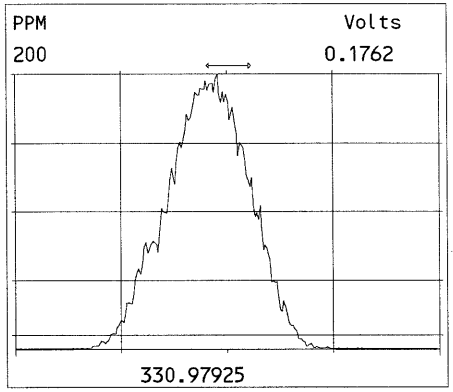


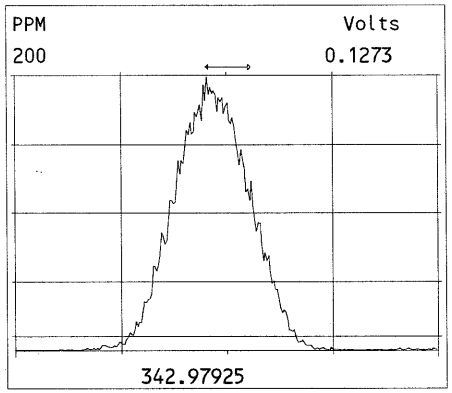


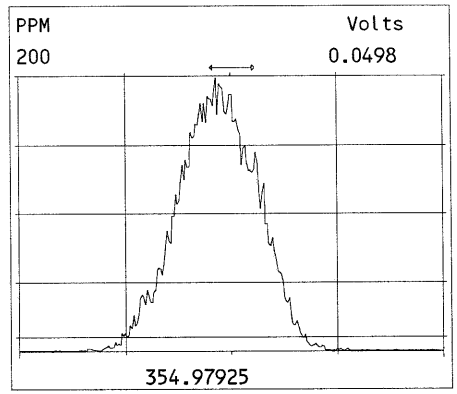


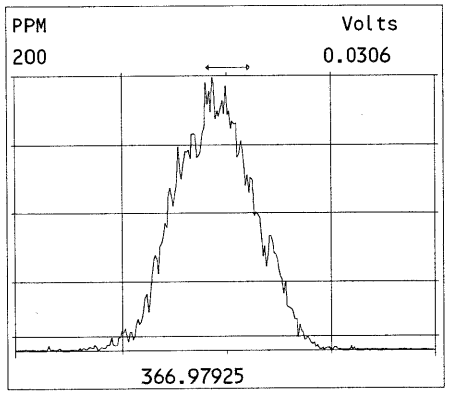
Peak Locate Examination: 2-AUG-2018:00:10 File:01AUG18Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

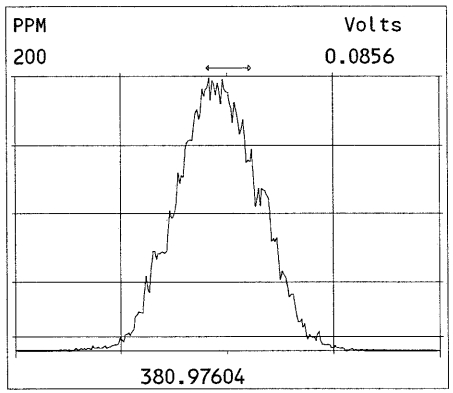


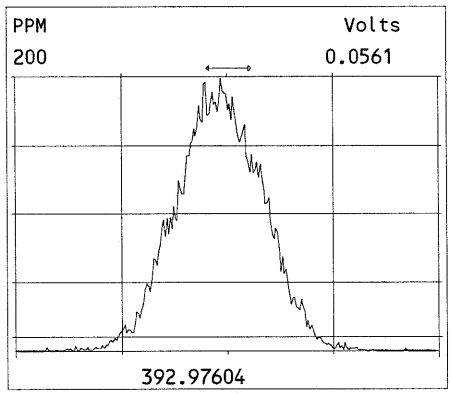


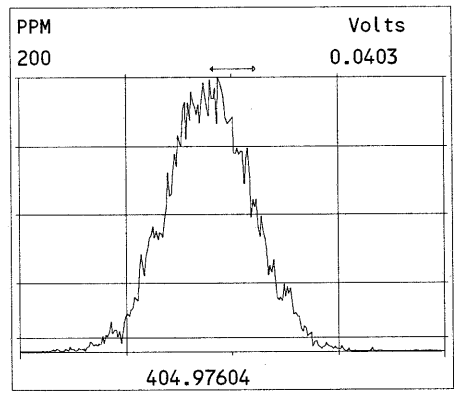


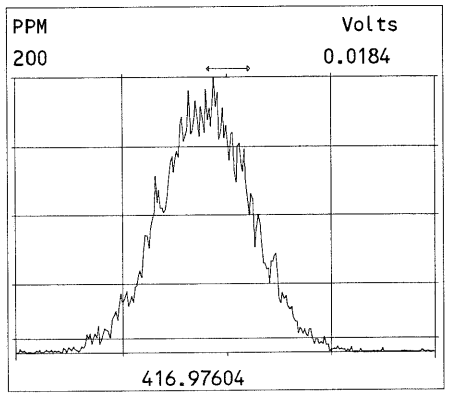


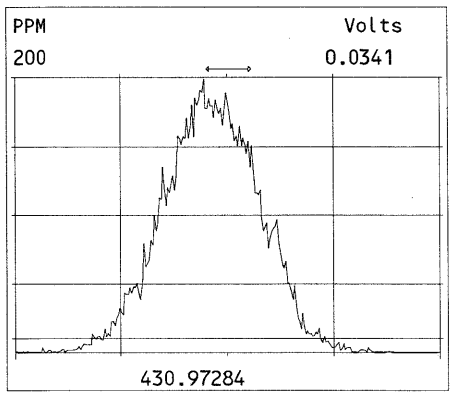


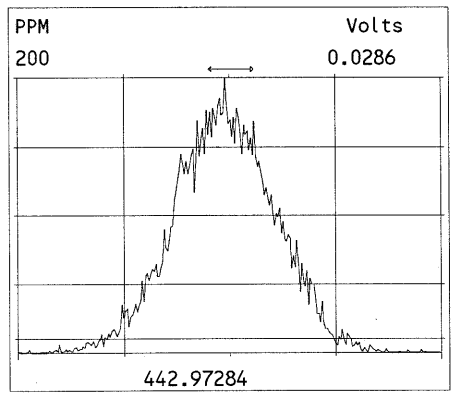
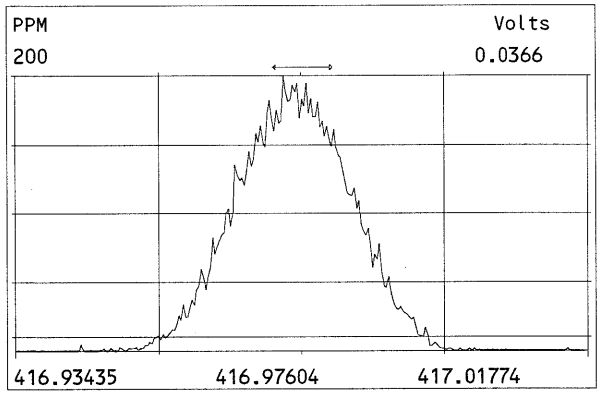
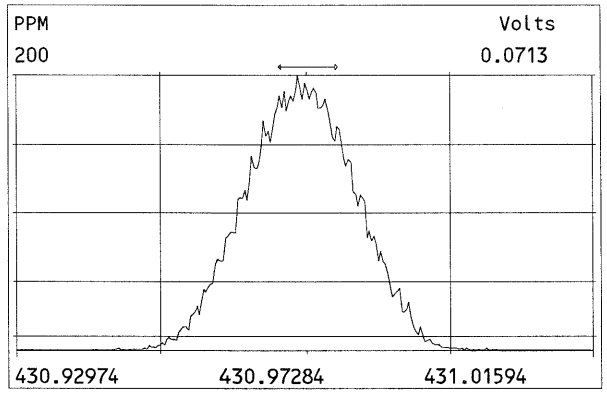
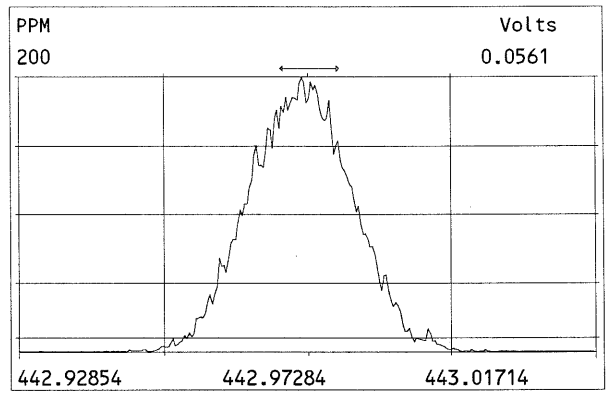
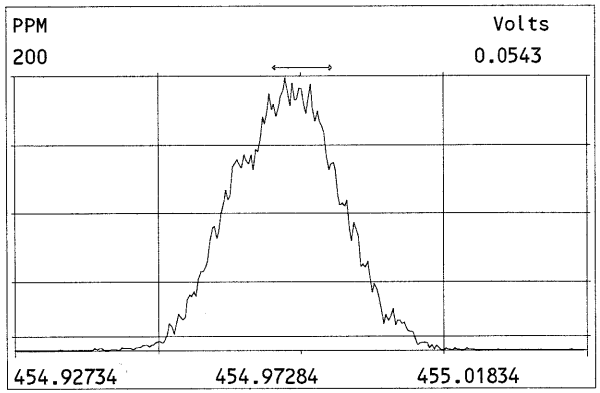
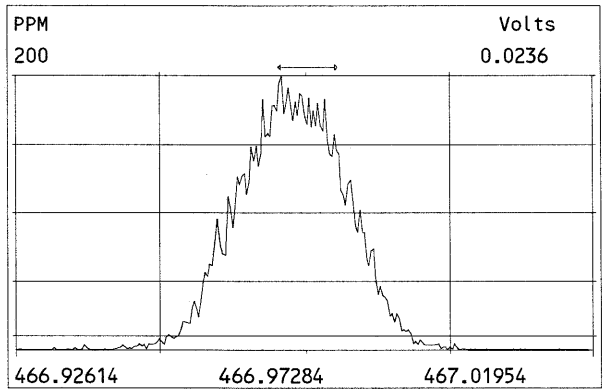
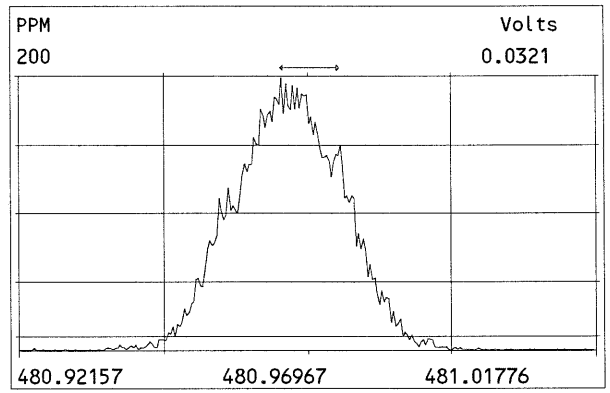
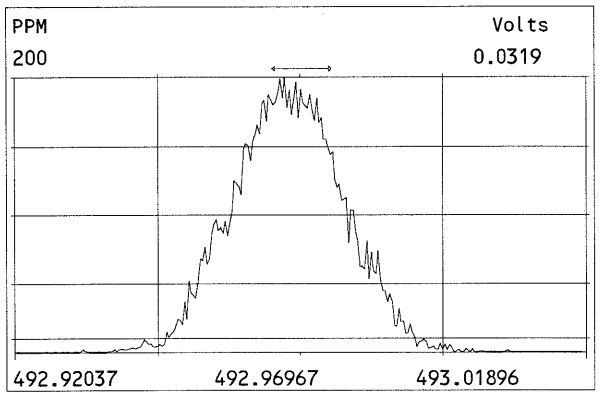
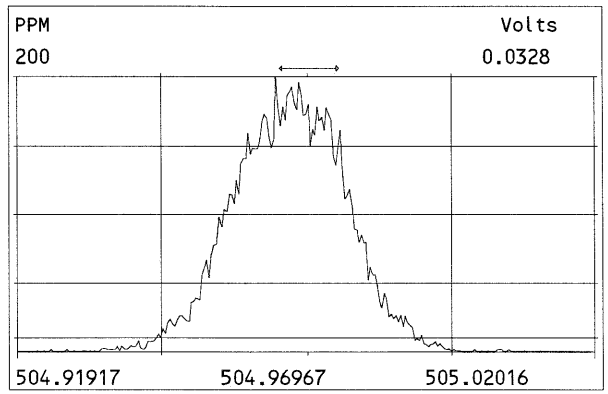
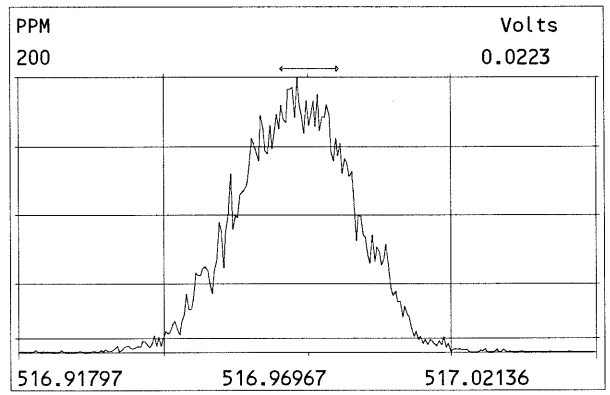








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