August 7, 2019

Gretchen Heavner, Ph.D.
Floyd Snider
601 Union Street, Suite 600
Seattle, WA 98101

Dear Dr. Heavner,

The following results are associated with Frontier Analytical Laboratory (FAL) project **12510**. These results correspond to your **LDW ENR/AC Pilot Study** project under project number **LY15160310**. Fifteen hexane solvent samples were received on 6/28/2019 in good condition. Per your e-mail request on 7/9/2019, the following samples were prepared and extracted however not analyzed; 12510-007-SA, 12510-008-SA, 12510-012-SA, and 12510-013-SA (Floyd Snider IDs: LDW-Y2-SU-ENR+AC-CD-S010, LDW-Y2-SU-ENR+AC-CE-S010, LDW-Y2-SU-ENR-CD-S010, and LDW-Y2-SU-ENR-CE-S010 respectively).The remaining eleven 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 **12510**.

Please note that during the cleanup process of samples 12510-014-SA and 12510-015-SA (Floyd Snider Sample IDs: LDW-Y2-SU-S010-LCB and LDW-Y2-IN-ENR+AC-CA-S010 respectively), the hexane extracts were briefly evaporated to dryness. The extracts were immediately reconstituted in hexane and reduced to their appropriate final volume in nonane. Any of the mono and di internal standards that may have been affected by this occurrence have been qualified with an "A" to signify that the percent recovery is outside the QC range of the method but the signal to noise ratio is greater than 10:1. If there are backup samples or alternative samples that have been placed on hold available for re-extraction, FAL can perform this analysis at no additional charge if requested.

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 sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, your e-mail correspondence dated 7/9/2019, our sample login form and the sample photos. The Laboratory Raw Data section contains our project request 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 **12510**, please feel free to contact me at 916-934-0900.

Sincerely,

Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **12510**

Received on: **06/28/2019** Project Due: **07/23/2019** Storage: **R-5**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
12510-001-SA	0	LY15160310	LDW-Y2-SC-S010-TB	EPA 1668 PCB	Solvent	06/24/2019	11:11 am	06/23/2020
12510-002-SA	0	LY15160310	LDW-Y2-SU-S010-TB	EPA 1668 PCB	Solvent	06/24/2019	11:18 am	06/23/2020
12510-003-SA	0	LY15160310	LDW-Y2-IN-S010-TB	EPA 1668 PCB	Solvent	06/24/2019	11:28 am	06/23/2020
12510-004-SA	0	LY15160310	LDW-Y2-SU-ENR+AC-CA-S010	EPA 1668 PCB	Solvent	06/24/2019	08:58 am	06/23/2020
12510-005-SA	0	LY15160310	LDW-Y2-SU-ENR+AC-CB-S010	EPA 1668 PCB	Solvent	06/24/2019	09:13 am	06/23/2020
12510-006-SA	0	LY15160310	LDW-Y2-SU-ENR+AC-CC-S010	EPA 1668 PCB	Solvent	06/24/2019	09:22 am	06/23/2020
12510-007-SA	0	LY15160310	LDW-Y2-SU-ENR+AC-CD-S010	EPA 1668 PCB	Solvent	06/24/2019	09:33 am	06/23/2020
12510-008-SA	0	LY15160310	LDW-Y2-SU-ENR+AC-CE-S010	EPA 1668 PCB	Solvent	06/24/2019	09:45 am	06/23/2020
12510-009-SA	0	LY15160310	LDW-Y2-SU-ENR-CA-S010	EPA 1668 PCB	Solvent	06/24/2019	10:16 am	06/23/2020
12510-010-SA	0	LY15160310	LDW-Y2-SU-ENR-CB-S010	EPA 1668 PCB	Solvent	06/24/2019	10:26 am	06/23/2020
12510-011-SA	0	LY15160310	LDW-Y2-SU-ENR-CC-S010	EPA 1668 PCB	Solvent	06/24/2019	10:35 am	06/23/2020
12510-012-SA	0	LY15160310	LDW-Y2-SU-ENR-CD-S010	EPA 1668 PCB	Solvent	06/24/2019	10:44 am	06/23/2020
12510-013-SA	0	LY15160310	LDW-Y2-SU-ENR-CE-S010	EPA 1668 PCB	Solvent	06/24/2019	10:52 am	06/23/2020
12510-014-SA	0	LY15160310	LDW-Y2-SU-S010-LCB	EPA 1668 PCB	Solvent	06/24/2019	11:00 am	06/23/2020
12510-015-SA	0	LY15160310	LDW-Y2-IN-ENR+AC-CA-S010	EPA 1668 PCB	Solvent	06/25/2019	09:44 am	06/24/2020

FAL Sample ID	Notes
12510-001-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12510-002-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12510-003-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12510-004-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12510-005-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12510-006-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12510-007-SA	Extract and hold sample.
12510-008-SA	Extract and hold sample.
12510-009-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12510-010-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12510-011-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12510-012-SA	Extract and hold sample.
12510-013-SA	Extract and hold sample.
12510-014-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019
12510-015-SA	Sample taken off hold on 7/9/19 via email from Gretchen. New Due Date: 8/7/2019

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12510-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019
Total Conc: 0.0

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	1.06			PCB-51	ND	3.57		
PCB-2	ND	1.16			PCB-52	ND	3.72	C	69
PCB-3	ND	1.23			PCB-53	ND	3.81		
PCB-4	ND	5.39			PCB-54	ND	2.77		
PCB-5	ND	3.36			PCB-55	ND	3.04		
PCB-6	ND	3.27			PCB-56	ND	2.36	C	60
PCB-7	ND	3.42			PCB-57	ND	3.20		
PCB-8	ND	3.60			PCB-58	ND	3.00		
PCB-9	ND	3.38			PCB-59	-	-	C042	42
PCB-10	ND	3.45			PCB-60	-	-	C056	56
PCB-11	ND	3.92			PCB-61	ND	3.44	C	70
PCB-12	ND	3.80			PCB-62	ND	3.25		
PCB-13	ND	3.92			PCB-63	ND	3.21		
PCB-14	ND	3.58			PCB-64	-	-	C041	41/71/72
PCB-15	ND	4.07			PCB-65	ND	3.29		
PCB-16	ND	2.09			PCB-66	ND	3.09	C	76
PCB-17	ND	2.28			PCB-67	ND	3.35		
PCB-18	ND	2.57			PCB-68	ND	2.94		
PCB-19	ND	2.48			PCB-69	-	-	C052	52
PCB-20	ND	2.49	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	2.22			PCB-72	-	-	C041	41/64/71
PCB-23	ND	2.23			PCB-73	ND	3.04		
PCB-24	ND	1.72			PCB-74	ND	3.25		
PCB-25	ND	2.47			PCB-75	-	-	C048	48
PCB-26	ND	2.47			PCB-76	-	-	C066	66
PCB-27	ND	1.78			PCB-77	ND	2.49		
PCB-28	ND	1.94			PCB-78	ND	2.29		
PCB-29	ND	2.33			PCB-79	ND	2.23		
PCB-30	ND	1.70			PCB-80	ND	2.66		
PCB-31	ND	2.61			PCB-81	ND	2.21		
PCB-32	ND	1.97			PCB-82	ND	3.51		
PCB-33	-	-	C020	20/21	PCB-83	ND	2.57	C	112
PCB-34	ND	2.52			PCB-84	ND	2.77	C	92
PCB-35	ND	2.72			PCB-85	ND	2.34	C	116
PCB-36	ND	2.50			PCB-86	ND	2.97		
PCB-37	ND	2.57			PCB-87	ND	2.36	C	117/125
PCB-38	ND	2.45			PCB-88	ND	2.11	C	91
PCB-39	ND	2.48			PCB-89	ND	2.80		
PCB-40	ND	5.26			PCB-90	ND	2.59	C	101
PCB-41	ND	3.37	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	3.82	C	59	PCB-92	-	-	C084	84
PCB-43	ND	4.22	C	49	PCB-93	ND	2.17		
PCB-44	ND	4.97			PCB-94	ND	2.37		
PCB-45	ND	4.37			PCB-95	ND	2.15		
PCB-46	ND	4.63			PCB-96	ND	1.58		
PCB-47	ND	4.23			PCB-97	ND	3.09		
PCB-48	ND	3.21	C	75	PCB-98	ND	2.36	C	102
PCB-49	-	-	C043	43	PCB-99	ND	2.34		
PCB-50	ND	3.68			PCB-100	ND	1.94		

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EPA Method 1668
PCBs

FAL ID: 12510-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	2.34		
PCB-102	-	-	C098	98	PCB-152	ND	2.23		
PCB-103	ND	1.98			PCB-153	ND	1.83		
PCB-104	ND	1.51			PCB-154	ND	2.62		
PCB-105	ND	2.21			PCB-155	ND	2.04		
PCB-106	ND	2.45	C	118	PCB-156	ND	1.95		
PCB-107	ND	2.27	C	108	PCB-157	ND	1.87		
PCB-108	-	-	C107	107	PCB-158	ND	1.71	C	160
PCB-109	ND	2.13			PCB-159	ND	1.68		
PCB-110	ND	2.07			PCB-160	-	-	C158	158
PCB-111	ND	2.09	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	2.31			PCB-163	-	-	C138	138/164
PCB-114	ND	2.10			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	1.80		
PCB-117	-	-	C087	87/125	PCB-167	ND	1.87		
PCB-118	-	-	C	106	PCB-168	ND	1.71		
PCB-119	ND	2.10			PCB-169	ND	1.68		
PCB-120	ND	2.03			PCB-170	ND	3.52		
PCB-121	ND	1.71			PCB-171	ND	3.27		
PCB-122	ND	2.32			PCB-172	ND	3.51		
PCB-123	ND	2.35			PCB-173	ND	3.67		
PCB-124	ND	2.15			PCB-174	ND	3.19		
PCB-125	-	-	C087	87/117	PCB-175	ND	3.28		
PCB-126	ND	2.81			PCB-176	ND	2.29		
PCB-127	ND	2.39			PCB-177	ND	3.58		
PCB-128	ND	2.04	C	162	PCB-178	ND	3.32		
PCB-129	ND	2.64			PCB-179	ND	2.23		
PCB-130	ND	2.38			PCB-180	ND	3.36		
PCB-131	ND	2.51	C	133	PCB-181	ND	3.22		
PCB-132	ND	2.05	C	161	PCB-182	ND	2.88	C	187
PCB-133	-	-	C131	131	PCB-183	ND	2.93		
PCB-134	ND	2.54	C	143	PCB-184	ND	2.09		
PCB-135	ND	2.49			PCB-185	ND	3.25		
PCB-136	ND	2.23			PCB-186	ND	2.27		
PCB-137	ND	2.48			PCB-187	-	-	C182	182
PCB-138	ND	1.89	C	163/164	PCB-188	ND	2.38		
PCB-139	ND	2.05	C	149	PCB-189	ND	2.55		
PCB-140	ND	2.06			PCB-190	ND	2.62		
PCB-141	ND	2.27			PCB-191	ND	2.53		
PCB-142	ND	2.51			PCB-192	ND	2.60		
PCB-143	-	-	C134	134	PCB-193	ND	2.39		
PCB-144	ND	1.95			PCB-194	ND	1.97		
PCB-145	ND	2.17			PCB-195	ND	2.16		
PCB-146	ND	1.90	C	165	PCB-196	ND	2.66	C	203
PCB-147	ND	2.11			PCB-197	ND	1.93		
PCB-148	ND	3.05			PCB-198	ND	2.85		
PCB-149	-	-	C139	139	PCB-199	ND	2.98		
PCB-150	ND	2.17			PCB-200	ND	1.99		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12510-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.01		
PCB-202	ND	2.18		
PCB-203	-	-	C196	196
PCB-204	ND	1.99		
PCB-205	ND	1.55		
PCB-206	ND	1.76		
PCB-207	ND	1.31		
PCB-208	ND	1.33		
PCB-209	ND	1.59		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	87.5	5.00 - 145	
13C-PCB-3	87.6	5.00 - 145	
13C-PCB-4	88.9	5.00 - 145	
13C-PCB-15	95.1	5.00 - 145	
13C-PCB-19	89.6	5.00 - 145	
13C-PCB-37	89.3	5.00 - 145	
13C-PCB-54	95.2	5.00 - 145	
13C-PCB-77	93.1	10.0 - 145	
13C-PCB-81	94.0	10.0 - 145	
13C-PCB-104	92.4	10.0 - 145	
13C-PCB-105	94.1	10.0 - 145	
13C-PCB-114	96.8	10.0 - 145	
13C-PCB-118	96.1	10.0 - 145	
13C-PCB-123	98.0	10.0 - 145	
13C-PCB-126	91.7	10.0 - 145	
13C-PCB-155	99.3	10.0 - 145	
13C-PCB-156	92.9	10.0 - 145	
13C-PCB-157	92.8	10.0 - 145	
13C-PCB-167	95.5	10.0 - 145	
13C-PCB-169	94.6	10.0 - 145	
13C-PCB-188	95.6	10.0 - 145	
13C-PCB-189	94.2	10.0 - 145	
13C-PCB-202	93.9	10.0 - 145	
13C-PCB-205	103	10.0 - 145	
13C-PCB-206	105	10.0 - 145	
13C-PCB-208	104	10.0 - 145	
13C-PCB-209	105	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	97.7	5.00 - 145	
13C-PCB-111	88.9	10.0 - 145	
13C-PCB-178	89.6	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: 8/6/2019

Reviewed By: DPV

Date: 8/6/2019

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EPA Method 1668
PCBs

FAL ID: 12510-001-OPR
Client ID: OPR
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: ng/ml

Acquired: 07-31-2019

Compound	% Recovery	QC Limits	Qual
PCB-1	103	60.0 - 135	
PCB-3	103	60.0 - 135	
PCB-4	96.6	60.0 - 135	
PCB-15	97.8	60.0 - 135	
PCB-19	103	60.0 - 135	
PCB-37	97.0	60.0 - 135	
PCB-54	105	60.0 - 135	
PCB-77	103	60.0 - 135	
PCB-81	93.8	60.0 - 135	
PCB-104	104	60.0 - 135	
PCB-105	92.0	60.0 - 135	
PCB-114	89.4	60.0 - 135	
PCB-118	102	60.0 - 135	
PCB-123	107	60.0 - 135	
PCB-126	99.0	60.0 - 135	
PCB-155	101	60.0 - 135	
PCB-156	95.2	60.0 - 135	
PCB-157	98.0	60.0 - 135	
PCB-167	99.4	60.0 - 135	
PCB-169	107	60.0 - 135	
PCB-188	104	60.0 - 135	
PCB-189	106	60.0 - 135	
PCB-202	107	60.0 - 135	
PCB-205	105	60.0 - 135	
PCB-206	102	60.0 - 135	
PCB-208	105	60.0 - 135	
PCB-209	102	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	82.8	15.0 - 145	
13C-PCB-3	82.3	15.0 - 145	
13C-PCB-4	85.9	15.0 - 145	
13C-PCB-15	88.5	15.0 - 145	
13C-PCB-19	81.7	15.0 - 145	
13C-PCB-37	86.9	15.0 - 145	
13C-PCB-54	86.5	15.0 - 145	
13C-PCB-77	82.3	40.0 - 145	
13C-PCB-81	84.2	40.0 - 145	
13C-PCB-104	86.9	40.0 - 145	
13C-PCB-105	88.1	40.0 - 145	
13C-PCB-114	89.0	40.0 - 145	
13C-PCB-118	89.2	40.0 - 145	
13C-PCB-123	90.5	40.0 - 145	
13C-PCB-126	82.3	40.0 - 145	
13C-PCB-155	87.8	40.0 - 145	
13C-PCB-156	85.8	40.0 - 145	
13C-PCB-157	85.4	40.0 - 145	
13C-PCB-167	87.7	40.0 - 145	
13C-PCB-169	81.9	40.0 - 145	
13C-PCB-188	91.9	40.0 - 145	
13C-PCB-189	85.9	40.0 - 145	
13C-PCB-202	92.1	40.0 - 145	
13C-PCB-205	87.5	40.0 - 145	
13C-PCB-206	91.7	40.0 - 145	
13C-PCB-208	90.5	40.0 - 145	
13C-PCB-209	92.2	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	92.8	15.0 - 145	
13C-PCB-111	82.4	40.0 - 145	
13C-PCB-178	85.8	40.0 - 145	

Analyst: _____

Date: 8/6/2019

Reviewed By: DPV

Date: 8/6/2019

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EPA Method 1668
PCBs

FAL ID: 12510-001-SA
Client ID: LDW-Y2-SC-S010-TB
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019
Total Conc: 49600

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.58			PCB-51	7.58	-	J	
PCB-2	ND	2.83			PCB-52	15.0	-	C,J	69
PCB-3	ND	2.99			PCB-53	ND	2.48		
PCB-4	ND	7.03			PCB-54	ND	1.80		
PCB-5	ND	5.19			PCB-55	46.4	-		
PCB-6	ND	5.05			PCB-56	ND	3.08	C	60
PCB-7	ND	5.28			PCB-57	ND	2.08		
PCB-8	13.7	-	J		PCB-58	ND	1.95		
PCB-9	ND	5.22			PCB-59	-	-	C042	42
PCB-10	ND	5.33			PCB-60	-	-	C056	56
PCB-11	232	-			PCB-61	7.71	-	C,J	70
PCB-12	ND	5.88			PCB-62	ND	2.12		
PCB-13	ND	6.05			PCB-63	ND	2.09		
PCB-14	1510	-			PCB-64	-	-	C041,J	41/71/72
PCB-15	ND	6.17			PCB-65	ND	2.14		
PCB-16	5.49	-	J		PCB-66	ND	2.01	C	76
PCB-17	7.53	-	J		PCB-67	ND	2.18		
PCB-18	18.3	-	J		PCB-68	10.8	-	J	
PCB-19	4.24	-	J		PCB-69	-	-	C052,J	52
PCB-20	8.85	-	C,J	21/33	PCB-70	-	-	C061,J	61
PCB-21	-	-	C020,J	20/33	PCB-71	-	-	C041,J	41/64/72
PCB-22	ND	2.71			PCB-72	-	-	C041,J	41/64/71
PCB-23	ND	2.72			PCB-73	16.5	-	J	
PCB-24	ND	1.48			PCB-74	ND	2.11		
PCB-25	ND	3.02			PCB-75	-	-	C048	48
PCB-26	ND	3.01			PCB-76	-	-	C066	66
PCB-27	ND	1.54			PCB-77	ND	3.25		
PCB-28	10.3	-	J		PCB-78	3080	-		
PCB-29	ND	2.84			PCB-79	ND	2.90		
PCB-30	ND	1.46			PCB-80	9.01	-	J	
PCB-31	10.6	-	J		PCB-81	ND	2.86		
PCB-32	5.29	-	J		PCB-82	ND	5.10		
PCB-33	-	-	C020,J	20/21	PCB-83	ND	3.74	C	112
PCB-34	ND	3.08			PCB-84	47.2	-	C	92
PCB-35	ND	3.32			PCB-85	ND	3.40	C	116
PCB-36	1190	-			PCB-86	ND	4.31		
PCB-37	ND	3.14			PCB-87	ND	3.43	C	117/125
PCB-38	ND	2.99			PCB-88	ND	2.23	C	91
PCB-39	ND	3.03			PCB-89	ND	4.06		
PCB-40	ND	3.42			PCB-90	7.45	-	C,J	101
PCB-41	8.09	-	C,J	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	2.48	C	59	PCB-92	-	-	C084	84
PCB-43	8.52	-	C,J	49	PCB-93	49.1	-		
PCB-44	9.73	-	J		PCB-94	ND	2.51		
PCB-45	ND	2.84			PCB-95	ND	2.28		
PCB-46	ND	3.01			PCB-96	ND	1.67		
PCB-47	14.1	-	J		PCB-97	ND	4.48		
PCB-48	ND	2.08	C	75	PCB-98	ND	2.50	C	102
PCB-49	-	-	C043,J	43	PCB-99	ND	3.40		
PCB-50	7.45	-	J		PCB-100	7.16	-	J	

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EPA Method 1668
PCBs

FAL ID: 12510-001-SA
Client ID: LDW-Y2-SC-S010-TB
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090,J	90	PCB-151	ND	2.40		
PCB-102	-	-	C098	98	PCB-152	ND	2.00		
PCB-103	ND	2.09			PCB-153	69.5	-		
PCB-104	2330	-			PCB-154	12.6	-	J	
PCB-105	ND	2.62			PCB-155	3890	-		
PCB-106	ND	2.33	C	118	PCB-156	ND	1.73		
PCB-107	ND	2.44	C	108	PCB-157	ND	1.88		
PCB-108	-	-	C107	107	PCB-158	ND	1.76	C	160
PCB-109	ND	3.09			PCB-159	ND	1.73		
PCB-110	ND	3.01			PCB-160	-	-	C158	158
PCB-111	ND	3.04	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	3.36			PCB-163	-	-	C138	138/164
PCB-114	ND	2.26			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	1.85		
PCB-117	-	-	C087	87/125	PCB-167	ND	1.88		
PCB-118	-	-	C	106	PCB-168	ND	1.76		
PCB-119	ND	3.06			PCB-169	ND	2.12		
PCB-120	ND	2.95			PCB-170	ND	2.13		
PCB-121	4600	-			PCB-171	ND	1.98		
PCB-122	ND	2.48			PCB-172	114	-		
PCB-123	ND	2.56			PCB-173	ND	2.22		
PCB-124	ND	2.30			PCB-174	ND	1.93		
PCB-125	-	-	C087	87/117	PCB-175	ND	1.98		
PCB-126	ND	2.95			PCB-176	ND	1.39		
PCB-127	ND	2.56			PCB-177	ND	2.17		
PCB-128	ND	2.10	C	162	PCB-178	ND	2.01		
PCB-129	ND	2.71			PCB-179	ND	1.35		
PCB-130	ND	2.44			PCB-180	ND	2.04		
PCB-131	ND	2.58	C	133	PCB-181	ND	1.95		
PCB-132	ND	2.11	C	161	PCB-182	ND	1.74	C	187
PCB-133	-	-	C131	131	PCB-183	ND	1.77		
PCB-134	ND	2.61	C	143	PCB-184	5120	-		
PCB-135	ND	2.55			PCB-185	ND	1.97		
PCB-136	ND	2.00			PCB-186	ND	1.37		
PCB-137	ND	2.55			PCB-187	-	-	C182	182
PCB-138	ND	1.94	C	163/164	PCB-188	ND	1.52		
PCB-139	ND	2.10	C	149	PCB-189	ND	1.44		
PCB-140	ND	2.12			PCB-190	ND	1.59		
PCB-141	ND	2.33			PCB-191	ND	1.53		
PCB-142	12700	-			PCB-192	4100	-		
PCB-143	-	-	C134	134	PCB-193	ND	1.45		
PCB-144	ND	2.00			PCB-194	ND	2.41		
PCB-145	ND	1.95			PCB-195	ND	2.65		
PCB-146	ND	1.95	C	165	PCB-196	ND	1.54	C	203
PCB-147	ND	2.17			PCB-197	56.7	-		
PCB-148	ND	2.72			PCB-198	ND	1.65		
PCB-149	-	-	C139	139	PCB-199	ND	1.72		
PCB-150	ND	1.94			PCB-200	ND	1.15		

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EPA Method 1668
PCBs

FAL ID: 12510-001-SA
Client ID: LDW-Y2-SC-S010-TB
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.16		
PCB-202	ND	1.26		
PCB-203	-	-	C196	196
PCB-204	10200	-		
PCB-205	ND	1.90		
PCB-206	ND	1.60		
PCB-207	39.0	-		
PCB-208	ND	1.11		
PCB-209	43.4	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	82.3	5.00 - 145	
13C-PCB-3	88.9	5.00 - 145	
13C-PCB-4	87.8	5.00 - 145	
13C-PCB-15	97.2	5.00 - 145	
13C-PCB-19	91.6	5.00 - 145	
13C-PCB-37	99.7	5.00 - 145	
13C-PCB-54	79.6	5.00 - 145	
13C-PCB-77	93.0	10.0 - 145	
13C-PCB-81	96.0	10.0 - 145	
13C-PCB-104	89.7	10.0 - 145	
13C-PCB-105	99.7	10.0 - 145	
13C-PCB-114	106	10.0 - 145	
13C-PCB-118	104	10.0 - 145	
13C-PCB-123	104	10.0 - 145	
13C-PCB-126	95.1	10.0 - 145	
13C-PCB-155	87.5	10.0 - 145	
13C-PCB-156	92.9	10.0 - 145	
13C-PCB-157	93.7	10.0 - 145	
13C-PCB-167	96.5	10.0 - 145	
13C-PCB-169	88.3	10.0 - 145	
13C-PCB-188	95.8	10.0 - 145	
13C-PCB-189	91.3	10.0 - 145	
13C-PCB-202	88.2	10.0 - 145	
13C-PCB-205	92.1	10.0 - 145	
13C-PCB-206	87.5	10.0 - 145	
13C-PCB-208	93.1	10.0 - 145	
13C-PCB-209	89.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	95.8	5.00 - 145	
13C-PCB-111	91.9	10.0 - 145	
13C-PCB-178	95.4	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: 8/6/2019

Reviewed By: DPV

Date: 8/6/2019

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EPA Method 1668
PCBs

FAL ID: 12510-002-SA
Client ID: LDW-Y2-SU-S010-TB
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019
Total Conc: 49100

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	1.35			PCB-51	4.69	-	J	
PCB-2	ND	1.51			PCB-52	7.24	-	C,J	69
PCB-3	ND	1.63			PCB-53	ND	2.57		
PCB-4	ND	6.00			PCB-54	ND	1.87		
PCB-5	ND	4.79			PCB-55	46.4	-		
PCB-6	ND	4.67			PCB-56	ND	3.47	C	60
PCB-7	ND	4.88			PCB-57	ND	2.16		
PCB-8	ND	5.13			PCB-58	ND	2.03		
PCB-9	ND	4.82			PCB-59	-	-	C042	42
PCB-10	ND	4.93			PCB-60	-	-	C056	56
PCB-11	54.2	-			PCB-61	ND	2.32	C	70
PCB-12	ND	5.43			PCB-62	ND	2.20		
PCB-13	ND	5.59			PCB-63	ND	2.17		
PCB-14	1330	-			PCB-64	-	-	C041	41/71/72
PCB-15	ND	6.03			PCB-65	ND	2.22		
PCB-16	ND	2.79			PCB-66	ND	2.08	C	76
PCB-17	ND	3.03			PCB-67	ND	2.26		
PCB-18	6.72	-	J		PCB-68	10.4	-	J	
PCB-19	ND	3.30			PCB-69	-	-	C052,J	52
PCB-20	ND	2.81	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	2.50			PCB-72	-	-	C041	41/64/71
PCB-23	ND	2.52			PCB-73	16.0	-	J	
PCB-24	ND	2.29			PCB-74	ND	2.19		
PCB-25	ND	2.79			PCB-75	-	-	C048	48
PCB-26	ND	2.78			PCB-76	-	-	C066	66
PCB-27	ND	2.38			PCB-77	ND	3.76		
PCB-28	ND	2.19			PCB-78	2920	-		
PCB-29	ND	2.63			PCB-79	ND	3.27		
PCB-30	ND	2.26			PCB-80	9.84	-	J	
PCB-31	ND	2.94			PCB-81	ND	3.15		
PCB-32	ND	2.63			PCB-82	ND	4.89		
PCB-33	-	-	C020	20/21	PCB-83	ND	3.59	C	112
PCB-34	ND	2.84			PCB-84	41.5	-	C	92
PCB-35	ND	3.07			PCB-85	ND	3.27	C	116
PCB-36	1080	-			PCB-86	ND	4.13		
PCB-37	ND	2.90			PCB-87	ND	3.29	C	117/125
PCB-38	ND	2.76			PCB-88	ND	2.03	C	91
PCB-39	ND	2.80			PCB-89	ND	3.90		
PCB-40	ND	3.55			PCB-90	ND	3.61	C	101
PCB-41	ND	2.28	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	2.58	C	59	PCB-92	-	-	C084	84
PCB-43	4.83	-	C,J	49	PCB-93	55.4	-		
PCB-44	ND	3.35			PCB-94	ND	2.29		
PCB-45	ND	2.95			PCB-95	ND	2.08		
PCB-46	ND	3.12			PCB-96	ND	1.52		
PCB-47	6.74	-	J		PCB-97	ND	4.30		
PCB-48	ND	2.16	C	75	PCB-98	ND	2.28	C	102
PCB-49	-	-	C043,J	43	PCB-99	ND	3.26		
PCB-50	7.90	-	J		PCB-100	ND	1.88		

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EPA Method 1668
PCBs

FAL ID: 12510-002-SA
Client ID: LDW-Y2-SU-S010-TB
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	2.05		
PCB-102	-	-	C098	98	PCB-152	ND	1.35		
PCB-103	ND	1.91			PCB-153	67.6	-		
PCB-104	2580	-			PCB-154	12.9	-	J	
PCB-105	ND	1.51			PCB-155	4190	-		
PCB-106	ND	1.75	C	118	PCB-156	ND	1.74		
PCB-107	ND	1.57	C	108	PCB-157	ND	1.60		
PCB-108	-	-	C107	107	PCB-158	ND	1.50	C	160
PCB-109	ND	2.97			PCB-159	ND	1.47		
PCB-110	ND	2.88			PCB-160	-	-	C158	158
PCB-111	ND	2.92	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	3.23			PCB-163	-	-	C138	138/164
PCB-114	ND	1.39			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	1.58		
PCB-117	-	-	C087	87/125	PCB-167	ND	1.62		
PCB-118	-	-	C	106	PCB-168	ND	1.50		
PCB-119	ND	2.93			PCB-169	ND	1.51		
PCB-120	ND	2.83			PCB-170	ND	1.83		
PCB-121	4540	-			PCB-171	ND	1.70		
PCB-122	ND	1.60			PCB-172	122	-		
PCB-123	ND	1.65			PCB-173	ND	1.91		
PCB-124	ND	1.48			PCB-174	ND	1.66		
PCB-125	-	-	C087	87/117	PCB-175	ND	1.70		
PCB-126	ND	1.92			PCB-176	ND	1.19		
PCB-127	ND	1.65			PCB-177	ND	1.86		
PCB-128	ND	1.79	C	162	PCB-178	ND	1.72		
PCB-129	ND	2.32			PCB-179	ND	1.16		
PCB-130	ND	2.08			PCB-180	ND	1.75		
PCB-131	ND	2.20	C	133	PCB-181	ND	1.67		
PCB-132	ND	1.80	C	161	PCB-182	ND	1.50	C	187
PCB-133	-	-	C131	131	PCB-183	ND	1.52		
PCB-134	ND	2.23	C	143	PCB-184	5190	-		
PCB-135	ND	2.18			PCB-185	ND	1.69		
PCB-136	ND	1.35			PCB-186	ND	1.18		
PCB-137	ND	2.17			PCB-187	-	-	C182	182
PCB-138	ND	1.66	C	163/164	PCB-188	ND	1.24		
PCB-139	ND	1.79	C	149	PCB-189	ND	1.32		
PCB-140	ND	1.81			PCB-190	ND	1.36		
PCB-141	ND	1.99			PCB-191	ND	1.32		
PCB-142	13500	-			PCB-192	3860	-		
PCB-143	-	-	C134	134	PCB-193	ND	1.24		
PCB-144	ND	1.71			PCB-194	ND	1.93		
PCB-145	ND	1.32			PCB-195	ND	2.12		
PCB-146	ND	1.67	C	165	PCB-196	ND	1.64	C	203
PCB-147	ND	1.85			PCB-197	50.4	-		
PCB-148	ND	1.85			PCB-198	ND	1.75		
PCB-149	-	-	C139	139	PCB-199	ND	1.83		
PCB-150	ND	1.32			PCB-200	ND	1.22		

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EPA Method 1668
PCBs

FAL ID: 12510-002-SA
Client ID: LDW-Y2-SU-S010-TB
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.23		
PCB-202	ND	1.34		
PCB-203	-	-	C196	196
PCB-204	9280	-		
PCB-205	ND	1.52		
PCB-206	ND	0.488		
PCB-207	36.5	-		
PCB-208	ND	0.415		
PCB-209	40.2	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	84.1	5.00 - 145	
13C-PCB-3	85.4	5.00 - 145	
13C-PCB-4	85.0	5.00 - 145	
13C-PCB-15	91.4	5.00 - 145	
13C-PCB-19	85.6	5.00 - 145	
13C-PCB-37	89.3	5.00 - 145	
13C-PCB-54	70.0	5.00 - 145	
13C-PCB-77	91.4	10.0 - 145	
13C-PCB-81	94.2	10.0 - 145	
13C-PCB-104	80.2	10.0 - 145	
13C-PCB-105	90.7	10.0 - 145	
13C-PCB-114	93.7	10.0 - 145	
13C-PCB-118	91.9	10.0 - 145	
13C-PCB-123	90.4	10.0 - 145	
13C-PCB-126	88.3	10.0 - 145	
13C-PCB-155	80.2	10.0 - 145	
13C-PCB-156	81.1	10.0 - 145	
13C-PCB-157	86.2	10.0 - 145	
13C-PCB-167	84.7	10.0 - 145	
13C-PCB-169	85.4	10.0 - 145	
13C-PCB-188	86.1	10.0 - 145	
13C-PCB-189	82.4	10.0 - 145	
13C-PCB-202	82.0	10.0 - 145	
13C-PCB-205	87.7	10.0 - 145	
13C-PCB-206	87.2	10.0 - 145	
13C-PCB-208	84.7	10.0 - 145	
13C-PCB-209	84.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	86.2	5.00 - 145	
13C-PCB-111	87.6	10.0 - 145	
13C-PCB-178	83.3	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: 8/6/2019

Reviewed By: DPV

Date: 8/6/2019

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

EPA Method 1668
PCBs

FAL ID: 12510-003-SA
Client ID: LDW-Y2-IN-S010-TB
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019
Total Conc: 37000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	1.51			PCB-51	4.54	-	J	
PCB-2	ND	1.70			PCB-52	8.99	-	C,J	69
PCB-3	ND	1.86			PCB-53	ND	2.40		
PCB-4	ND	6.92			PCB-54	ND	1.74		
PCB-5	ND	4.97			PCB-55	36.3	-		
PCB-6	ND	4.84			PCB-56	ND	3.12	C	60
PCB-7	ND	5.06			PCB-57	ND	2.01		
PCB-8	ND	5.32			PCB-58	ND	1.89		
PCB-9	ND	4.99			PCB-59	-	-	C042	42
PCB-10	ND	5.11			PCB-60	-	-	C056	56
PCB-11	53.5	-			PCB-61	8.81	-	C,J	70
PCB-12	ND	5.63			PCB-62	ND	2.05		
PCB-13	ND	5.79			PCB-63	ND	2.02		
PCB-14	1100	-			PCB-64	-	-	C041,J	41/71/72
PCB-15	ND	5.81			PCB-65	ND	2.07		
PCB-16	ND	2.24			PCB-66	5.59	-	C,J	76
PCB-17	ND	2.44			PCB-67	ND	2.11		
PCB-18	8.97	-	J		PCB-68	8.40	-	J	
PCB-19	ND	2.66			PCB-69	-	-	C052,J	52
PCB-20	ND	3.22	C	21/33	PCB-70	-	-	C061,J	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041,J	41/64/72
PCB-22	ND	2.87			PCB-72	-	-	C041,J	41/64/71
PCB-23	ND	2.88			PCB-73	12.3	-	J	
PCB-24	ND	1.84			PCB-74	4.39	-	J	
PCB-25	ND	3.20			PCB-75	-	-	C048,J	48
PCB-26	ND	3.19			PCB-76	-	-	C066,J	66
PCB-27	ND	1.91			PCB-77	ND	3.42		
PCB-28	ND	2.51			PCB-78	2240	-		
PCB-29	ND	3.01			PCB-79	ND	2.94		
PCB-30	ND	1.82			PCB-80	6.69	-	J	
PCB-31	ND	3.37			PCB-81	ND	2.80		
PCB-32	ND	2.11			PCB-82	ND	5.56		
PCB-33	-	-	C020	20/21	PCB-83	ND	4.08	C	112
PCB-34	ND	3.26			PCB-84	38.6	-	C	92
PCB-35	ND	3.52			PCB-85	ND	3.71	C	116
PCB-36	814	-			PCB-86	ND	4.69		
PCB-37	ND	3.32			PCB-87	ND	3.74	C	117/125
PCB-38	ND	3.17			PCB-88	ND	1.96	C	91
PCB-39	ND	3.21			PCB-89	ND	4.43		
PCB-40	ND	3.31			PCB-90	7.44	-	C,J	101
PCB-41	7.18	-	C,J	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	2.40	C	59	PCB-92	-	-	C084	84
PCB-43	7.40	-	C,J	49	PCB-93	39.2	-		
PCB-44	9.69	-	J		PCB-94	ND	2.21		
PCB-45	5.98	-	J		PCB-95	ND	2.00		
PCB-46	ND	2.91			PCB-96	ND	1.47		
PCB-47	6.41	-	J		PCB-97	ND	4.89		
PCB-48	5.63	-	C,J	75	PCB-98	ND	2.20	C	102
PCB-49	-	-	C043,J	43	PCB-99	ND	3.70		
PCB-50	6.33	-	J		PCB-100	ND	1.81		

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EPA Method 1668
PCBs

FAL ID: 12510-003-SA
Client ID: LDW-Y2-IN-S010-TB
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090,J	90	PCB-151	ND	2.07		
PCB-102	-	-	C098	98	PCB-152	ND	1.09		
PCB-103	ND	1.84			PCB-153	42.3	-		
PCB-104	1740	-			PCB-154	9.96	-	J	
PCB-105	ND	2.33			PCB-155	2950	-		
PCB-106	ND	2.65	C	118	PCB-156	ND	1.74		
PCB-107	ND	2.52	C	108	PCB-157	ND	1.69		
PCB-108	-	-	C107	107	PCB-158	ND	1.51	C	160
PCB-109	ND	3.37			PCB-159	ND	1.49		
PCB-110	ND	3.28			PCB-160	-	-	C158	158
PCB-111	ND	3.32	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	3.66			PCB-163	-	-	C138	138/164
PCB-114	ND	2.34			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	1.59		
PCB-117	-	-	C087	87/125	PCB-167	ND	1.65		
PCB-118	-	-	C	106	PCB-168	ND	1.51		
PCB-119	ND	3.33			PCB-169	ND	1.45		
PCB-120	ND	3.22			PCB-170	ND	2.66		
PCB-121	3530	-			PCB-171	ND	2.47		
PCB-122	ND	2.57			PCB-172	94.1	-		
PCB-123	ND	2.80			PCB-173	ND	2.78		
PCB-124	ND	2.38			PCB-174	ND	2.41		
PCB-125	-	-	C087	87/117	PCB-175	ND	2.48		
PCB-126	ND	3.04			PCB-176	ND	1.73		
PCB-127	ND	2.65			PCB-177	ND	2.71		
PCB-128	ND	1.80	C	162	PCB-178	ND	2.51		
PCB-129	ND	2.34			PCB-179	ND	1.69		
PCB-130	ND	2.10			PCB-180	ND	2.54		
PCB-131	ND	2.22	C	133	PCB-181	ND	2.44		
PCB-132	ND	1.81	C	161	PCB-182	ND	2.18	C	187
PCB-133	-	-	C131	131	PCB-183	ND	2.21		
PCB-134	ND	2.25	C	143	PCB-184	3940	-		
PCB-135	ND	2.20			PCB-185	ND	2.46		
PCB-136	ND	1.09			PCB-186	ND	1.71		
PCB-137	ND	2.19			PCB-187	-	-	C182	182
PCB-138	ND	1.67	C	163/164	PCB-188	ND	2.06		
PCB-139	ND	1.81	C	149	PCB-189	ND	1.62		
PCB-140	ND	1.82			PCB-190	ND	1.98		
PCB-141	ND	2.01			PCB-191	ND	1.92		
PCB-142	9330	-			PCB-192	3140	-		
PCB-143	-	-	C134	134	PCB-193	ND	1.81		
PCB-144	ND	1.73			PCB-194	ND	3.25		
PCB-145	ND	1.06			PCB-195	ND	3.57		
PCB-146	ND	1.68	C	165	PCB-196	ND	1.45	C	203
PCB-147	ND	1.86			PCB-197	47.0	-		
PCB-148	ND	1.49			PCB-198	ND	1.56		
PCB-149	-	-	C139	139	PCB-199	ND	1.63		
PCB-150	ND	1.06			PCB-200	ND	1.09		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12510-003-SA
Client ID: LDW-Y2-IN-S010-TB
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.10		
PCB-202	ND	1.19		
PCB-203	-	-	C196	196
PCB-204	7630	-		
PCB-205	ND	2.56		
PCB-206	ND	1.58		
PCB-207	31.3	-		
PCB-208	ND	1.30		
PCB-209	38.2	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	84.1	5.00 - 145	
13C-PCB-3	84.4	5.00 - 145	
13C-PCB-4	82.5	5.00 - 145	
13C-PCB-15	97.4	5.00 - 145	
13C-PCB-19	83.7	5.00 - 145	
13C-PCB-37	93.1	5.00 - 145	
13C-PCB-54	75.6	5.00 - 145	
13C-PCB-77	90.8	10.0 - 145	
13C-PCB-81	93.1	10.0 - 145	
13C-PCB-104	81.1	10.0 - 145	
13C-PCB-105	96.0	10.0 - 145	
13C-PCB-114	97.9	10.0 - 145	
13C-PCB-118	94.9	10.0 - 145	
13C-PCB-123	95.9	10.0 - 145	
13C-PCB-126	94.2	10.0 - 145	
13C-PCB-155	85.4	10.0 - 145	
13C-PCB-156	90.5	10.0 - 145	
13C-PCB-157	91.0	10.0 - 145	
13C-PCB-167	92.7	10.0 - 145	
13C-PCB-169	96.4	10.0 - 145	
13C-PCB-188	87.5	10.0 - 145	
13C-PCB-189	91.0	10.0 - 145	
13C-PCB-202	87.4	10.0 - 145	
13C-PCB-205	86.8	10.0 - 145	
13C-PCB-206	86.8	10.0 - 145	
13C-PCB-208	91.1	10.0 - 145	
13C-PCB-209	84.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	86.5	5.00 - 145	
13C-PCB-111	88.6	10.0 - 145	
13C-PCB-178	89.6	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: 8/6/2019

Reviewed By: DPV

Date: 8/6/2019

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EPA Method 1668
PCBs

FAL ID: 12510-004-SA
Client ID: LDW-Y2-SU-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019
Total Conc: 159000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	12.4	-	J		PCB-51	427	-		
PCB-2	ND	3.66			PCB-52	7100	-	C	69
PCB-3	ND	3.99			PCB-53	1360	-		
PCB-4	383	-			PCB-54	23.8	-		
PCB-5	ND	9.54			PCB-55	170	-		
PCB-6	248	-			PCB-56	2380	-	C	60
PCB-7	55.1	-			PCB-57	30.8	-		
PCB-8	968	-			PCB-58	21.5	-		
PCB-9	65.9	-			PCB-59	-	-	C042	42
PCB-10	37.1	-			PCB-60	-	-	C056	56
PCB-11	86.1	-			PCB-61	4860	-	C	70
PCB-12	19.5	-	J		PCB-62	ND	5.77		
PCB-13	21.1	-			PCB-63	202	-		
PCB-14	482	-			PCB-64	-	-	C041	41/71/72
PCB-15	262	-			PCB-65	ND	5.83		
PCB-16	1870	-			PCB-66	3680	-	C	76
PCB-17	2990	-			PCB-67	190	-		
PCB-18	7110	-			PCB-68	61.3	-		
PCB-19	526	-			PCB-69	-	-	C052	52
PCB-20	3550	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	1780	-			PCB-72	-	-	C041	41/64/71
PCB-23	11.8	-	J		PCB-73	ND	5.38		
PCB-24	262	-			PCB-74	2130	-		
PCB-25	576	-			PCB-75	-	-	C048	48
PCB-26	1150	-			PCB-76	-	-	C066	66
PCB-27	270	-			PCB-77	210	-		
PCB-28	4660	-			PCB-78	2200	-		
PCB-29	59.6	-			PCB-79	28.9	-		
PCB-30	ND	4.05			PCB-80	ND	4.71		
PCB-31	5600	-			PCB-81	80.8	-		
PCB-32	1950	-			PCB-82	411	-		
PCB-33	-	-	C020	20/21	PCB-83	173	-	C	112
PCB-34	40.7	-			PCB-84	1620	-	C	92
PCB-35	34.1	-			PCB-85	453	-	C	116
PCB-36	672	-			PCB-86	ND	4.21		
PCB-37	803	-			PCB-87	1170	-	C	117/125
PCB-38	31.8	-			PCB-88	ND	2.16	C	91
PCB-39	ND	5.71			PCB-89	83.7	-		
PCB-40	1200	-			PCB-90	3220	-	C	101
PCB-41	5330	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	2390	-	C	59	PCB-92	-	-	C084	84
PCB-43	5300	-	C	49	PCB-93	ND	2.22		
PCB-44	6220	-			PCB-94	30.2	-		
PCB-45	1520	-			PCB-95	3720	-		
PCB-46	652	-			PCB-96	60.7	-		
PCB-47	1710	-			PCB-97	48.7	-		
PCB-48	1600	-	C	75	PCB-98	ND	2.42	C	102
PCB-49	-	-	C043	43	PCB-99	1310	-		
PCB-50	31.2	-			PCB-100	30.5	-		

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EPA Method 1668
PCBs

FAL ID: 12510-004-SA
Client ID: LDW-Y2-SU-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	575	-		
PCB-102	-	-	C098	98	PCB-152	ND	2.25		
PCB-103	57.4	-			PCB-153	1550	-		
PCB-104	2170	-			PCB-154	46.4	-		
PCB-105	645	-			PCB-155	3860	-		
PCB-106	1630	-	C	118	PCB-156	110	-		
PCB-107	142	-	C	108	PCB-157	28.0	-		
PCB-108	-	-	C107	107	PCB-158	169	-	C	160
PCB-109	ND	3.02			PCB-159	20.9	-		
PCB-110	2830	-			PCB-160	-	-	C158	158
PCB-111	70.3	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	3.28			PCB-163	-	-	C138	138/164
PCB-114	51.2	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.56		
PCB-117	-	-	C087	87/125	PCB-167	48.6	-		
PCB-118	-	-	C	106	PCB-168	ND	3.38		
PCB-119	80.6	-			PCB-169	ND	3.53		
PCB-120	13.9	-	J		PCB-170	211	-		
PCB-121	4820	-			PCB-171	82.1	-		
PCB-122	30.1	-			PCB-172	172	-		
PCB-123	41.6	-			PCB-173	ND	5.34		
PCB-124	78.1	-			PCB-174	313	-		
PCB-125	-	-	C087	87/117	PCB-175	8.64	-	J	
PCB-126	9.21	-	J		PCB-176	55.0	-		
PCB-127	ND	4.68			PCB-177	182	-		
PCB-128	212	-	C	162	PCB-178	75.4	-		
PCB-129	71.6	-			PCB-179	185	-		
PCB-130	102	-			PCB-180	570	-		
PCB-131	46.9	-	C	133	PCB-181	ND	4.68		
PCB-132	632	-	C	161	PCB-182	395	-	C	187
PCB-133	-	-	C131	131	PCB-183	177	-		
PCB-134	133	-	C	143	PCB-184	5190	-		
PCB-135	325	-			PCB-185	40.5	-		
PCB-136	409	-			PCB-186	ND	3.29		
PCB-137	82.1	-			PCB-187	-	-	C182	182
PCB-138	1550	-	C	163/164	PCB-188	13.6	-	J	
PCB-139	1780	-	C	149	PCB-189	9.54	-	J	
PCB-140	21.2	-			PCB-190	48.6	-		
PCB-141	310	-			PCB-191	7.97	-	J	
PCB-142	12000	-			PCB-192	4000	-		
PCB-143	-	-	C134	134	PCB-193	30.8	-		
PCB-144	116	-			PCB-194	67.7	-		
PCB-145	ND	2.19			PCB-195	31.9	-		
PCB-146	289	-	C	165	PCB-196	94.2	-	C	203
PCB-147	42.6	-			PCB-197	63.5	-		
PCB-148	ND	3.07			PCB-198	5.84	-	J	
PCB-149	-	-	C139	139	PCB-199	92.7	-		
PCB-150	9.16	-	J		PCB-200	16.5	-	J	

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EPA Method 1668
PCBs

FAL ID: 12510-004-SA
Client ID: LDW-Y2-SU-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	2.03		
PCB-202	16.3	-	J	
PCB-203	-	-	C196	196
PCB-204	9860	-		
PCB-205	5.35	-	J	
PCB-206	19.6	-	J	
PCB-207	42.1	-		
PCB-208	8.34	-	J	
PCB-209	55.8	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	83.0	5.00 - 145	
13C-PCB-3	82.8	5.00 - 145	
13C-PCB-4	85.6	5.00 - 145	
13C-PCB-15	90.9	5.00 - 145	
13C-PCB-19	87.6	5.00 - 145	
13C-PCB-37	93.6	5.00 - 145	
13C-PCB-54	79.6	5.00 - 145	
13C-PCB-77	91.3	10.0 - 145	
13C-PCB-81	93.3	10.0 - 145	
13C-PCB-104	88.0	10.0 - 145	
13C-PCB-105	92.3	10.0 - 145	
13C-PCB-114	96.6	10.0 - 145	
13C-PCB-118	93.3	10.0 - 145	
13C-PCB-123	94.7	10.0 - 145	
13C-PCB-126	90.1	10.0 - 145	
13C-PCB-155	88.0	10.0 - 145	
13C-PCB-156	88.6	10.0 - 145	
13C-PCB-157	90.1	10.0 - 145	
13C-PCB-167	91.0	10.0 - 145	
13C-PCB-169	93.2	10.0 - 145	
13C-PCB-188	90.9	10.0 - 145	
13C-PCB-189	86.4	10.0 - 145	
13C-PCB-202	87.9	10.0 - 145	
13C-PCB-205	87.0	10.0 - 145	
13C-PCB-206	85.3	10.0 - 145	
13C-PCB-208	90.7	10.0 - 145	
13C-PCB-209	83.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	93.5	5.00 - 145	
13C-PCB-111	95.1	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: 8/6/2019

Reviewed By: DPV

Date: 8/6/2019

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EPA Method 1668
PCBs

FAL ID: 12510-005-SA
Client ID: LDW-Y2-SU-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019
Total Conc: 113000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	18.9	-	J		PCB-51	218	-		
PCB-2	ND	3.68			PCB-52	4750	-	C	69
PCB-3	ND	3.84			PCB-53	723	-		
PCB-4	406	-			PCB-54	15.8	-	J	
PCB-5	ND	6.82			PCB-55	91.7	-		
PCB-6	262	-			PCB-56	1040	-	C	60
PCB-7	34.4	-			PCB-57	23.5	-		
PCB-8	756	-			PCB-58	14.0	-	J	
PCB-9	55.2	-			PCB-59	-	-	C042	42
PCB-10	26.6	-			PCB-60	-	-	C056	56
PCB-11	46.1	-			PCB-61	2540	-	C	70
PCB-12	19.1	-	J		PCB-62	ND	5.27		
PCB-13	14.3	-	J		PCB-63	111	-		
PCB-14	442	-			PCB-64	-	-	C041	41/71/72
PCB-15	154	-			PCB-65	ND	5.32		
PCB-16	925	-			PCB-66	1900	-	C	76
PCB-17	1640	-			PCB-67	95.9	-		
PCB-18	3900	-			PCB-68	46.7	-		
PCB-19	414	-			PCB-69	-	-	C052	52
PCB-20	1330	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	654	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	6.25			PCB-73	ND	4.92		
PCB-24	168	-			PCB-74	1050	-		
PCB-25	333	-			PCB-75	-	-	C048	48
PCB-26	602	-			PCB-76	-	-	C066	66
PCB-27	148	-			PCB-77	90.7	-		
PCB-28	1930	-			PCB-78	1960	-		
PCB-29	18.5	-	J		PCB-79	26.5	-		
PCB-30	ND	2.06			PCB-80	ND	4.30		
PCB-31	2280	-			PCB-81	47.5	-		
PCB-32	1190	-			PCB-82	306	-		
PCB-33	-	-	C020	20/21	PCB-83	145	-	C	112
PCB-34	25.7	-			PCB-84	1440	-	C	92
PCB-35	16.8	-	J		PCB-85	348	-	C	116
PCB-36	632	-			PCB-86	ND	6.32		
PCB-37	287	-			PCB-87	939	-	C	117/125
PCB-38	16.7	-	J		PCB-88	ND	1.80	C	91
PCB-39	ND	6.95			PCB-89	59.9	-		
PCB-40	587	-			PCB-90	3000	-	C	101
PCB-41	2650	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1230	-	C	59	PCB-92	-	-	C084	84
PCB-43	3350	-	C	49	PCB-93	ND	1.86		
PCB-44	3410	-			PCB-94	23.0	-		
PCB-45	751	-			PCB-95	3140	-		
PCB-46	309	-			PCB-96	39.6	-		
PCB-47	1030	-			PCB-97	850	-		
PCB-48	774	-	C	75	PCB-98	ND	2.02	C	102
PCB-49	-	-	C043	43	PCB-99	1190	-		
PCB-50	22.6	-			PCB-100	24.9	-		

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EPA Method 1668
PCBs

FAL ID: 12510-005-SA
Client ID: LDW-Y2-SU-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	549	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.64		
PCB-103	63.9	-			PCB-153	1520	-		
PCB-104	1940	-			PCB-154	58.6	-		
PCB-105	470	-			PCB-155	3440	-		
PCB-106	1400	-	C	118	PCB-156	105	-		
PCB-107	122	-	C	108	PCB-157	18.2	-	J	
PCB-108	-	-	C107	107	PCB-158	153	-	C	160
PCB-109	ND	4.54			PCB-159	22.6	-		
PCB-110	2530	-			PCB-160	-	-	C158	158
PCB-111	41.1	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.93			PCB-163	-	-	C138	138/164
PCB-114	36.3	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.80		
PCB-117	-	-	C087	87/125	PCB-167	38.2	-		
PCB-118	-	-	C	106	PCB-168	ND	3.61		
PCB-119	82.6	-			PCB-169	ND	3.69		
PCB-120	10.8	-	J		PCB-170	216	-		
PCB-121	4170	-			PCB-171	79.4	-		
PCB-122	19.6	-	J		PCB-172	169	-		
PCB-123	27.2	-			PCB-173	ND	3.53		
PCB-124	67.5	-			PCB-174	336	-		
PCB-125	-	-	C087	87/117	PCB-175	14.5	-	J	
PCB-126	6.53	-	J		PCB-176	56.2	-		
PCB-127	ND	2.88			PCB-177	209	-		
PCB-128	215	-	C	162	PCB-178	85.1	-		
PCB-129	73.1	-			PCB-179	190	-		
PCB-130	107	-			PCB-180	591	-		
PCB-131	50.1	-	C	133	PCB-181	ND	3.09		
PCB-132	547	-	C	161	PCB-182	446	-	C	187
PCB-133	-	-	C131	131	PCB-183	198	-		
PCB-134	122	-	C	143	PCB-184	4610	-		
PCB-135	336	-			PCB-185	37.8	-		
PCB-136	390	-			PCB-186	ND	2.17		
PCB-137	62.8	-			PCB-187	-	-	C182	182
PCB-138	1480	-	C	163/164	PCB-188	12.1	-	J	
PCB-139	1650	-	C	149	PCB-189	9.16	-	J	
PCB-140	23.1	-			PCB-190	46.7	-		
PCB-141	290	-			PCB-191	6.83	-	J	
PCB-142	10200	-			PCB-192	3830	-		
PCB-143	-	-	C134	134	PCB-193	33.8	-		
PCB-144	92.1	-			PCB-194	77.1	-		
PCB-145	ND	1.60			PCB-195	38.4	-		
PCB-146	320	-	C	165	PCB-196	113	-	C	203
PCB-147	40.0	-			PCB-197	54.8	-		
PCB-148	ND	2.24			PCB-198	6.94	-	J	
PCB-149	-	-	C139	139	PCB-199	118	-		
PCB-150	9.46	-	J		PCB-200	15.0	-	J	

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EPA Method 1668
PCBs

FAL ID: 12510-005-SA
Client ID: LDW-Y2-SU-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.45		
PCB-202	30.0	-		
PCB-203	-	-	C196	196
PCB-204	8910	-		
PCB-205	5.25	-	J	
PCB-206	23.3	-		
PCB-207	42.6	-		
PCB-208	9.82	-	J	
PCB-209	48.2	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	85.4	5.00 - 145	
13C-PCB-3	90.1	5.00 - 145	
13C-PCB-4	86.5	5.00 - 145	
13C-PCB-15	97.6	5.00 - 145	
13C-PCB-19	88.9	5.00 - 145	
13C-PCB-37	96.3	5.00 - 145	
13C-PCB-54	79.5	5.00 - 145	
13C-PCB-77	92.0	10.0 - 145	
13C-PCB-81	95.4	10.0 - 145	
13C-PCB-104	88.2	10.0 - 145	
13C-PCB-105	95.5	10.0 - 145	
13C-PCB-114	98.7	10.0 - 145	
13C-PCB-118	94.9	10.0 - 145	
13C-PCB-123	96.9	10.0 - 145	
13C-PCB-126	94.0	10.0 - 145	
13C-PCB-155	88.1	10.0 - 145	
13C-PCB-156	93.5	10.0 - 145	
13C-PCB-157	94.6	10.0 - 145	
13C-PCB-167	94.8	10.0 - 145	
13C-PCB-169	99.5	10.0 - 145	
13C-PCB-188	88.4	10.0 - 145	
13C-PCB-189	92.9	10.0 - 145	
13C-PCB-202	88.8	10.0 - 145	
13C-PCB-205	91.4	10.0 - 145	
13C-PCB-206	90.1	10.0 - 145	
13C-PCB-208	99.5	10.0 - 145	
13C-PCB-209	88.5	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	92.2	5.00 - 145	
13C-PCB-111	92.9	10.0 - 145	
13C-PCB-178	93.7	10.0 - 145	

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

Analyst: [signature]

Date: 8/6/2019

Reviewed By: DPV

Date: 8/6/2019

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EPA Method 1668
PCBs

FAL ID: 12510-006-SA
Client ID: LDW-Y2-SU-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019
Total Conc: 210000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	20.9	-			PCB-51	475	-		
PCB-2	ND	3.73			PCB-52	12100	-	C	69
PCB-3	ND	4.13			PCB-53	1660	-		
PCB-4	1150	-			PCB-54	36.6	-		
PCB-5	ND	8.51			PCB-55	163	-		
PCB-6	486	-			PCB-56	2350	-	C	60
PCB-7	95.8	-			PCB-57	41.9	-		
PCB-8	1610	-			PCB-58	19.3	-	J	
PCB-9	96.6	-			PCB-59	-	-	C042	42
PCB-10	73.6	-			PCB-60	-	-	C056	56
PCB-11	66.7	-			PCB-61	5800	-	C	70
PCB-12	15.7	-	J		PCB-62	ND	8.09		
PCB-13	25.9	-			PCB-63	227	-		
PCB-14	388	-			PCB-64	-	-	C041	41/71/72
PCB-15	156	-			PCB-65	ND	8.17		
PCB-16	2800	-			PCB-66	3910	-	C	76
PCB-17	4160	-			PCB-67	178	-		
PCB-18	10900	-			PCB-68	67.8	-		
PCB-19	1130	-			PCB-69	-	-	C052	52
PCB-20	3280	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	1570	-			PCB-72	-	-	C041	41/64/71
PCB-23	13.7	-	J		PCB-73	ND	7.54		
PCB-24	382	-			PCB-74	2240	-		
PCB-25	624	-			PCB-75	-	-	C048	48
PCB-26	1280	-			PCB-76	-	-	C066	66
PCB-27	371	-			PCB-77	198	-		
PCB-28	4280	-			PCB-78	1750	-		
PCB-29	46.9	-			PCB-79	67.8	-		
PCB-30	ND	3.78			PCB-80	ND	6.60		
PCB-31	5570	-			PCB-81	121	-		
PCB-32	2740	-			PCB-82	837	-		
PCB-33	-	-	C020	20/21	PCB-83	368	-	C	112
PCB-34	52.8	-			PCB-84	3760	-	C	92
PCB-35	34.7	-			PCB-85	949	-	C	116
PCB-36	558	-			PCB-86	38.7	-		
PCB-37	546	-			PCB-87	2830	-	C	117/125
PCB-38	41.4	-			PCB-88	ND	2.26	C	91
PCB-39	ND	6.94			PCB-89	145	-		
PCB-40	1300	-			PCB-90	8410	-	C	101
PCB-41	5870	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	2590	-	C	59	PCB-92	-	-	C084	84
PCB-43	7190	-	C	49	PCB-93	ND	2.33		
PCB-44	8150	-			PCB-94	52.1	-		
PCB-45	1720	-			PCB-95	8450	-		
PCB-46	701	-			PCB-96	95.2	-		
PCB-47	2210	-			PCB-97	2420	-		
PCB-48	1590	-	C	75	PCB-98	ND	2.53	C	102
PCB-49	-	-	C043	43	PCB-99	2870	-		
PCB-50	47.3	-			PCB-100	37.6	-		

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EPA Method 1668
PCBs

FAL ID: 12510-006-SA
Client ID: LDW-Y2-SU-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1160	-		
PCB-102	-	-	C098	98	PCB-152	6.62	-	J	
PCB-103	93.4	-			PCB-153	3040	-		
PCB-104	1910	-			PCB-154	64.4	-		
PCB-105	1340	-			PCB-155	3230	-		
PCB-106	3470	-	C	118	PCB-156	249	-		
PCB-107	273	-	C	108	PCB-157	45.1	-		
PCB-108	-	-	C107	107	PCB-158	386	-	C	160
PCB-109	5.99	-	J		PCB-159	28.6	-		
PCB-110	6940	-			PCB-160	-	-	C158	158
PCB-111	158	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	6.33			PCB-163	-	-	C138	138/164
PCB-114	97.5	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	18.7	-	J	
PCB-117	-	-	C087	87/125	PCB-167	99.8	-		
PCB-118	-	-	C	106	PCB-168	ND	4.94		
PCB-119	149	-			PCB-169	ND	5.12		
PCB-120	28.9	-			PCB-170	375	-		
PCB-121	4440	-			PCB-171	133	-		
PCB-122	54.4	-			PCB-172	174	-		
PCB-123	76.3	-			PCB-173	15.1	-	J	
PCB-124	174	-			PCB-174	541	-		
PCB-125	-	-	C087	87/117	PCB-175	27.2	-		
PCB-126	17.4	-	J		PCB-176	96.6	-		
PCB-127	ND	5.10			PCB-177	339	-		
PCB-128	490	-	C	162	PCB-178	119	-		
PCB-129	193	-			PCB-179	318	-		
PCB-130	246	-			PCB-180	956	-		
PCB-131	136	-	C	133	PCB-181	ND	3.16		
PCB-132	1280	-	C	161	PCB-182	645	-	C	187
PCB-133	-	-	C131	131	PCB-183	312	-		
PCB-134	321	-	C	143	PCB-184	4230	-		
PCB-135	737	-			PCB-185	63.9	-		
PCB-136	879	-			PCB-186	ND	2.23		
PCB-137	169	-			PCB-187	-	-	C182	182
PCB-138	3380	-	C	163/164	PCB-188	10.0	-	J	
PCB-139	3690	-	C	149	PCB-189	14.1	-	J	
PCB-140	33.2	-			PCB-190	82.4	-		
PCB-141	685	-			PCB-191	21.1	-		
PCB-142	9460	-			PCB-192	3160	-		
PCB-143	-	-	C134	134	PCB-193	53.8	-		
PCB-144	226	-			PCB-194	112	-		
PCB-145	ND	1.99			PCB-195	50.8	-		
PCB-146	537	-	C	165	PCB-196	180	-	C	203
PCB-147	98.7	-			PCB-197	53.3	-		
PCB-148	ND	2.78			PCB-198	8.62	-	J	
PCB-149	-	-	C139	139	PCB-199	163	-		
PCB-150	12.6	-	J		PCB-200	22.6	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12510-006-SA
Client ID: LDW-Y2-SU-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 07-31-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	24.7	-		
PCB-202	44.1	-		
PCB-203	-	-	C196	196
PCB-204	8290	-		
PCB-205	7.70	-	J	
PCB-206	31.8	-		
PCB-207	38.6	-		
PCB-208	11.9	-	J	
PCB-209	46.4	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	85.2	5.00 - 145	
13C-PCB-3	84.0	5.00 - 145	
13C-PCB-4	85.0	5.00 - 145	
13C-PCB-15	88.7	5.00 - 145	
13C-PCB-19	87.4	5.00 - 145	
13C-PCB-37	85.0	5.00 - 145	
13C-PCB-54	80.3	5.00 - 145	
13C-PCB-77	82.3	10.0 - 145	
13C-PCB-81	87.2	10.0 - 145	
13C-PCB-104	86.2	10.0 - 145	
13C-PCB-105	87.1	10.0 - 145	
13C-PCB-114	93.4	10.0 - 145	
13C-PCB-118	92.0	10.0 - 145	
13C-PCB-123	91.4	10.0 - 145	
13C-PCB-126	88.1	10.0 - 145	
13C-PCB-155	83.2	10.0 - 145	
13C-PCB-156	86.9	10.0 - 145	
13C-PCB-157	88.6	10.0 - 145	
13C-PCB-167	89.9	10.0 - 145	
13C-PCB-169	95.5	10.0 - 145	
13C-PCB-188	88.1	10.0 - 145	
13C-PCB-189	88.6	10.0 - 145	
13C-PCB-202	84.5	10.0 - 145	
13C-PCB-205	90.8	10.0 - 145	
13C-PCB-206	90.3	10.0 - 145	
13C-PCB-208	94.0	10.0 - 145	
13C-PCB-209	90.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	85.9	5.00 - 145	
13C-PCB-111	83.5	10.0 - 145	
13C-PCB-178	83.5	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: 8/6/2019

Reviewed By: DPV

Date: 8/6/2019

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EPA Method 1668
PCBs

FAL ID: 12510-009-SA
Client ID: LDW-Y2-SU-ENR-CA-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-01-2019
Total Conc: 125000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	16.9	-	J		PCB-51	231	-		
PCB-2	ND	1.56			PCB-52	4550	-	C	69
PCB-3	5.15	-	J		PCB-53	767	-		
PCB-4	483	-			PCB-54	16.9	-	J	
PCB-5	ND	5.45			PCB-55	112	-		
PCB-6	273	-			PCB-56	1490	-	C	60
PCB-7	44.8	-			PCB-57	26.4	-		
PCB-8	1260	-			PCB-58	13.4	-	J	
PCB-9	70.8	-			PCB-59	-	-	C042	42
PCB-10	32.1	-			PCB-60	-	-	C056	56
PCB-11	102	-			PCB-61	3040	-	C	70
PCB-12	27.2	-			PCB-62	ND	5.99		
PCB-13	21.2	-			PCB-63	130	-		
PCB-14	651	-			PCB-64	-	-	C041	41/71/72
PCB-15	337	-			PCB-65	ND	6.05		
PCB-16	1290	-			PCB-66	2420	-	C	76
PCB-17	1920	-			PCB-67	117	-		
PCB-18	4830	-			PCB-68	40.8	-		
PCB-19	571	-			PCB-69	-	-	C052	52
PCB-20	1980	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	964	-			PCB-72	-	-	C041	41/64/71
PCB-23	6.28	-	J		PCB-73	ND	5.59		
PCB-24	242	-			PCB-74	1400	-		
PCB-25	363	-			PCB-75	-	-	C048	48
PCB-26	668	-			PCB-76	-	-	C066	66
PCB-27	181	-			PCB-77	150	-		
PCB-28	2750	-			PCB-78	2250	-		
PCB-29	27.2	-			PCB-79	23.6	-		
PCB-30	ND	2.61			PCB-80	ND	4.89		
PCB-31	3200	-			PCB-81	52.5	-		
PCB-32	1510	-			PCB-82	369	-		
PCB-33	-	-	C020	20/21	PCB-83	161	-	C	112
PCB-34	21.2	-			PCB-84	1510	-	C	92
PCB-35	31.1	-			PCB-85	414	-	C	116
PCB-36	755	-			PCB-86	31.4	-		
PCB-37	504	-			PCB-87	1070	-	C	117/125
PCB-38	20.5	-			PCB-88	ND	1.46	C	91
PCB-39	ND	2.21			PCB-89	62.2	-		
PCB-40	651	-			PCB-90	3230	-	C	101
PCB-41	2940	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1340	-	C	59	PCB-92	-	-	C084	84
PCB-43	3280	-	C	49	PCB-93	ND	1.50		
PCB-44	3550	-			PCB-94	22.4	-		
PCB-45	835	-			PCB-95	3060	-		
PCB-46	350	-			PCB-96	40.0	-		
PCB-47	1160	-			PCB-97	984	-		
PCB-48	797	-	C	75	PCB-98	ND	1.64	C	102
PCB-49	-	-	C043	43	PCB-99	1280	-		
PCB-50	24.7	-			PCB-100	26.0	-		

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EPA Method 1668
PCBs

FAL ID: 12510-009-SA
Client ID: LDW-Y2-SU-ENR-CA-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-01-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	514	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.01		
PCB-103	52.2	-			PCB-153	1320	-		
PCB-104	2160	-			PCB-154	47.8	-		
PCB-105	575	-			PCB-155	3610	-		
PCB-106	1460	-	C	118	PCB-156	102	-		
PCB-107	121	-	C	108	PCB-157	24.6	-		
PCB-108	-	-	C107	107	PCB-158	155	-	C	160
PCB-109	ND	6.76			PCB-159	19.8	-	J	
PCB-110	2730	-			PCB-160	-	-	C158	158
PCB-111	65.1	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	7.35			PCB-163	-	-	C138	138/164
PCB-114	37.7	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	3.53		
PCB-117	-	-	C087	87/125	PCB-167	45.1	-		
PCB-118	-	-	C	106	PCB-168	ND	3.35		
PCB-119	77.1	-			PCB-169	ND	3.40		
PCB-120	ND	6.45			PCB-170	179	-		
PCB-121	4490	-			PCB-171	68.8	-		
PCB-122	20.7	-			PCB-172	158	-		
PCB-123	38.2	-			PCB-173	ND	2.03		
PCB-124	70.4	-			PCB-174	276	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	1.81		
PCB-126	6.91	-	J		PCB-176	48.6	-		
PCB-127	ND	3.15			PCB-177	163	-		
PCB-128	185	-	C	162	PCB-178	68.4	-		
PCB-129	55.3	-			PCB-179	155	-		
PCB-130	83.6	-			PCB-180	509	-		
PCB-131	56.6	-	C	133	PCB-181	ND	1.78		
PCB-132	587	-	C	161	PCB-182	349	-	C	187
PCB-133	-	-	C131	131	PCB-183	159	-		
PCB-134	130	-	C	143	PCB-184	5010	-		
PCB-135	296	-			PCB-185	37.7	-		
PCB-136	337	-			PCB-186	5.87	-	J	
PCB-137	62.9	-			PCB-187	-	-	C182	182
PCB-138	1410	-	C	163/164	PCB-188	11.2	-	J	
PCB-139	1570	-	C	149	PCB-189	7.75	-	J	
PCB-140	18.9	-	J		PCB-190	39.8	-		
PCB-141	266	-			PCB-191	ND	1.40		
PCB-142	11500	-			PCB-192	3910	-		
PCB-143	-	-	C134	134	PCB-193	27.8	-		
PCB-144	102	-			PCB-194	59.8	-		
PCB-145	ND	0.983			PCB-195	30.5	-		
PCB-146	282	-	C	165	PCB-196	86.6	-	C	203
PCB-147	38.7	-			PCB-197	52.0	-		
PCB-148	ND	1.38			PCB-198	6.51	-	J	
PCB-149	-	-	C139	139	PCB-199	87.9	-		
PCB-150	8.14	-	J		PCB-200	12.9	-	J	

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12510-009-SA
Client ID: LDW-Y2-SU-ENR-CA-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-01-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	12.7	-	J	
PCB-202	23.4	-		
PCB-203	-	-	C196	196
PCB-204	9290	-		
PCB-205	5.35	-	J	
PCB-206	19.4	-	J	
PCB-207	43.9	-		
PCB-208	7.13	-	J	
PCB-209	48.8	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	94.7	5.00 - 145	
13C-PCB-3	101	5.00 - 145	
13C-PCB-4	94.4	5.00 - 145	
13C-PCB-15	102	5.00 - 145	
13C-PCB-19	103	5.00 - 145	
13C-PCB-37	89.0	5.00 - 145	
13C-PCB-54	83.6	5.00 - 145	
13C-PCB-77	89.2	10.0 - 145	
13C-PCB-81	92.0	10.0 - 145	
13C-PCB-104	87.6	10.0 - 145	
13C-PCB-105	92.0	10.0 - 145	
13C-PCB-114	99.0	10.0 - 145	
13C-PCB-118	97.4	10.0 - 145	
13C-PCB-123	96.8	10.0 - 145	
13C-PCB-126	91.2	10.0 - 145	
13C-PCB-155	92.0	10.0 - 145	
13C-PCB-156	93.5	10.0 - 145	
13C-PCB-157	95.1	10.0 - 145	
13C-PCB-167	95.2	10.0 - 145	
13C-PCB-169	96.9	10.0 - 145	
13C-PCB-188	95.0	10.0 - 145	
13C-PCB-189	92.6	10.0 - 145	
13C-PCB-202	91.6	10.0 - 145	
13C-PCB-205	94.5	10.0 - 145	
13C-PCB-206	97.3	10.0 - 145	
13C-PCB-208	102	10.0 - 145	
13C-PCB-209	103	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	81.3	5.00 - 145	
13C-PCB-111	89.6	10.0 - 145	
13C-PCB-178	89.3	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: 8/6/2019

Reviewed By: DPV

Date: 8/6/2019

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EPA Method 1668
PCBs

FAL ID: 12510-010-SA
Client ID: LDW-Y2-SU-ENR-CB-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-01-2019
Total Conc: 227000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	35.2	-			PCB-51	535	-		
PCB-2	4.86	-	J		PCB-52	11300	-	C	69
PCB-3	8.25	-	J		PCB-53	1830	-		
PCB-4	1140	-			PCB-54	41.5	-		
PCB-5	ND	7.31			PCB-55	165	-		
PCB-6	1220	-			PCB-56	2770	-	C	60
PCB-7	110	-			PCB-57	61.6	-		
PCB-8	2530	-			PCB-58	36.6	-		
PCB-9	178	-			PCB-59	-	-	C042	42
PCB-10	93.7	-			PCB-60	-	-	C056	56
PCB-11	115	-			PCB-61	6110	-	C	70
PCB-12	63.1	-			PCB-62	ND	6.34		
PCB-13	65.3	-			PCB-63	285	-		
PCB-14	567	-			PCB-64	-	-	C041	41/71/72
PCB-15	478	-			PCB-65	ND	6.41		
PCB-16	3040	-			PCB-66	4760	-	C	76
PCB-17	5050	-			PCB-67	234	-		
PCB-18	12100	-			PCB-68	86.6	-		
PCB-19	1070	-			PCB-69	-	-	C052	52
PCB-20	4070	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	2090	-			PCB-72	-	-	C041	41/64/71
PCB-23	17.8	-	J		PCB-73	ND	5.92		
PCB-24	416	-			PCB-74	2760	-		
PCB-25	1140	-			PCB-75	-	-	C048	48
PCB-26	2240	-			PCB-76	-	-	C066	66
PCB-27	451	-			PCB-77	251	-		
PCB-28	5890	-			PCB-78	2050	-		
PCB-29	55.3	-			PCB-79	55.1	-		
PCB-30	ND	2.09			PCB-80	ND	5.18		
PCB-31	7600	-			PCB-81	104	-		
PCB-32	3280	-			PCB-82	796	-		
PCB-33	-	-	C020	20/21	PCB-83	348	-	C	112
PCB-34	89.3	-			PCB-84	3290	-	C	92
PCB-35	53.6	-			PCB-85	902	-	C	116
PCB-36	643	-			PCB-86	ND	6.00		
PCB-37	866	-			PCB-87	2360	-	C	117/125
PCB-38	41.4	-			PCB-88	ND	1.49	C	91
PCB-39	ND	5.79			PCB-89	144	-		
PCB-40	1530	-			PCB-90	6940	-	C	101
PCB-41	6980	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	3130	-	C	59	PCB-92	-	-	C084	84
PCB-43	8260	-	C	49	PCB-93	ND	1.53		
PCB-44	8790	-			PCB-94	50.5	-		
PCB-45	1940	-			PCB-95	6620	-		
PCB-46	794	-			PCB-96	92.2	-		
PCB-47	2610	-			PCB-97	2160	-		
PCB-48	1890	-	C	75	PCB-98	ND	1.67	C	102
PCB-49	-	-	C043	43	PCB-99	2690	-		
PCB-50	55.9	-			PCB-100	40.2	-		

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EPA Method 1668
PCBs

FAL ID: 12510-010-SA
Client ID: LDW-Y2-SU-ENR-CB-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-01-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1010	-		
PCB-102	-	-	C098	98	PCB-152	6.86	-	J	
PCB-103	102	-			PCB-153	3120	-		
PCB-104	1900	-			PCB-154	81.7	-		
PCB-105	1130	-			PCB-155	3430	-		
PCB-106	3140	-	C	118	PCB-156	252	-		
PCB-107	283	-	C	108	PCB-157	59.4	-		
PCB-108	-	-	C107	107	PCB-158	362	-	C	160
PCB-109	8.85	-	J		PCB-159	23.8	-		
PCB-110	6190	-			PCB-160	-	-	C158	158
PCB-111	102	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.68			PCB-163	-	-	C138	138/164
PCB-114	82.6	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.07		
PCB-117	-	-	C087	87/125	PCB-167	105	-		
PCB-118	-	-	C	106	PCB-168	ND	3.87		
PCB-119	172	-			PCB-169	ND	4.01		
PCB-120	22.3	-			PCB-170	486	-		
PCB-121	4590	-			PCB-171	174	-		
PCB-122	45.0	-			PCB-172	215	-		
PCB-123	76.6	-			PCB-173	19.4	-	J	
PCB-124	151	-			PCB-174	688	-		
PCB-125	-	-	C087	87/117	PCB-175	35.4	-		
PCB-126	15.2	-	J		PCB-176	121	-		
PCB-127	ND	3.71			PCB-177	423	-		
PCB-128	489	-	C	162	PCB-178	157	-		
PCB-129	177	-			PCB-179	368	-		
PCB-130	252	-			PCB-180	1230	-		
PCB-131	121	-	C	133	PCB-181	ND	2.23		
PCB-132	1140	-	C	161	PCB-182	837	-	C	187
PCB-133	-	-	C131	131	PCB-183	412	-		
PCB-134	274	-	C	143	PCB-184	5000	-		
PCB-135	656	-			PCB-185	82.4	-		
PCB-136	767	-			PCB-186	ND	1.56		
PCB-137	151	-			PCB-187	-	-	C182	182
PCB-138	3270	-	C	163/164	PCB-188	13.7	-	J	
PCB-139	3400	-	C	149	PCB-189	17.3	-	J	
PCB-140	37.5	-			PCB-190	104	-		
PCB-141	638	-			PCB-191	24.3	-		
PCB-142	10700	-			PCB-192	3880	-		
PCB-143	-	-	C134	134	PCB-193	71.4	-		
PCB-144	199	-			PCB-194	179	-		
PCB-145	ND	1.33			PCB-195	83.6	-		
PCB-146	550	-	C	165	PCB-196	240	-	C	203
PCB-147	87.6	-			PCB-197	58.9	-		
PCB-148	ND	1.86			PCB-198	12.6	-	J	
PCB-149	-	-	C139	139	PCB-199	221	-		
PCB-150	12.8	-	J		PCB-200	33.3	-		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12510-010-SA
Client ID: LDW-Y2-SU-ENR-CB-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-7-31-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-01-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	34.8	-		
PCB-202	57.3	-		
PCB-203	-	-	C196	196
PCB-204	9380	-		
PCB-205	11.1	-	J	
PCB-206	52.2	-		
PCB-207	43.3	-		
PCB-208	18.1	-	J	
PCB-209	55.5	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	96.7	5.00 - 145	
13C-PCB-3	98.2	5.00 - 145	
13C-PCB-4	92.1	5.00 - 145	
13C-PCB-15	99.6	5.00 - 145	
13C-PCB-19	101	5.00 - 145	
13C-PCB-37	90.4	5.00 - 145	
13C-PCB-54	83.8	5.00 - 145	
13C-PCB-77	87.2	10.0 - 145	
13C-PCB-81	89.7	10.0 - 145	
13C-PCB-104	89.8	10.0 - 145	
13C-PCB-105	88.8	10.0 - 145	
13C-PCB-114	93.0	10.0 - 145	
13C-PCB-118	90.9	10.0 - 145	
13C-PCB-123	89.4	10.0 - 145	
13C-PCB-126	88.3	10.0 - 145	
13C-PCB-155	86.8	10.0 - 145	
13C-PCB-156	90.8	10.0 - 145	
13C-PCB-157	91.6	10.0 - 145	
13C-PCB-167	95.0	10.0 - 145	
13C-PCB-169	93.6	10.0 - 145	
13C-PCB-188	92.6	10.0 - 145	
13C-PCB-189	87.2	10.0 - 145	
13C-PCB-202	89.7	10.0 - 145	
13C-PCB-205	91.5	10.0 - 145	
13C-PCB-206	95.0	10.0 - 145	
13C-PCB-208	102	10.0 - 145	
13C-PCB-209	99.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	84.7	5.00 - 145	
13C-PCB-111	92.6	10.0 - 145	
13C-PCB-178	89.6	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: 8/6/2019

Reviewed By: DPV

Date: 8/6/2019

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EPA Method 1668
PCBs

FAL ID: 12510-011-SA
Client ID: LDW-Y2-SU-ENR-CC-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-1-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-01-2019
Total Conc: 121000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	14.5	-	J		PCB-51	229	-		
PCB-2	ND	1.95			PCB-52	4140	-	C	69
PCB-3	5.71	-	J		PCB-53	729	-		
PCB-4	488	-			PCB-54	20.9	-		
PCB-5	ND	6.04			PCB-55	99.5	-		
PCB-6	260	-			PCB-56	1290	-	C	60
PCB-7	49.5	-			PCB-57	21.9	-		
PCB-8	1110	-			PCB-58	11.4	-	J	
PCB-9	55.6	-			PCB-59	-	-	C042	42
PCB-10	28.8	-			PCB-60	-	-	C056	56
PCB-11	84.6	-			PCB-61	2740	-	C	70
PCB-12	21.1	-			PCB-62	ND	6.43		
PCB-13	29.9	-			PCB-63	110	-		
PCB-14	706	-			PCB-64	-	-	C041	41/71/72
PCB-15	315	-			PCB-65	ND	5.96		
PCB-16	1400	-			PCB-66	2070	-	C	76
PCB-17	1890	-			PCB-67	102	-		
PCB-18	4540	-			PCB-68	48.7	-		
PCB-19	493	-			PCB-69	-	-	C052	52
PCB-20	2130	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	1090	-			PCB-72	-	-	C041	41/64/71
PCB-23	7.24	-	J		PCB-73	ND	5.68		
PCB-24	176	-			PCB-74	1230	-		
PCB-25	379	-			PCB-75	-	-	C048	48
PCB-26	701	-			PCB-76	-	-	C066	66
PCB-27	216	-			PCB-77	131	-		
PCB-28	3200	-			PCB-78	2280	-		
PCB-29	32.8	-			PCB-79	30.5	-		
PCB-30	ND	2.29			PCB-80	ND	5.19		
PCB-31	3120	-			PCB-81	52.1	-		
PCB-32	1360	-			PCB-82	294	-		
PCB-33	-	-	C020	20/21	PCB-83	129	-	C	112
PCB-34	26.4	-			PCB-84	1240	-	C	92
PCB-35	39.0	-			PCB-85	360	-	C	116
PCB-36	770	-			PCB-86	ND	6.44		
PCB-37	577	-			PCB-87	912	-	C	117/125
PCB-38	16.3	-	J		PCB-88	ND	2.69	C	91
PCB-39	ND	2.97			PCB-89	59.4	-		
PCB-40	656	-			PCB-90	2680	-	C	101
PCB-41	2790	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1240	-	C	59	PCB-92	-	-	C084	84
PCB-43	3060	-	C	49	PCB-93	ND	3.03		
PCB-44	3490	-			PCB-94	22.2	-		
PCB-45	816	-			PCB-95	3030	-		
PCB-46	324	-			PCB-96	42.9	-		
PCB-47	1010	-			PCB-97	816	-		
PCB-48	784	-	C	75	PCB-98	ND	2.79	C	102
PCB-49	-	-	C043	43	PCB-99	1100	-		
PCB-50	26.0	-			PCB-100	27.6	-		

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EPA Method 1668
PCBs

FAL ID: 12510-011-SA
Client ID: LDW-Y2-SU-ENR-CC-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-1-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-01-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	508	-		
PCB-102	-	-	C098	98	PCB-152	ND	2.04		
PCB-103	48.2	-			PCB-153	1560	-		
PCB-104	2010	-			PCB-154	38.2	-		
PCB-105	479	-			PCB-155	3310	-		
PCB-106	1340	-	C	118	PCB-156	103	-		
PCB-107	112	-	C	108	PCB-157	27.5	-		
PCB-108	-	-	C107	107	PCB-158	161	-	C	160
PCB-109	ND	4.72			PCB-159	23.8	-		
PCB-110	2350	-			PCB-160	-	-	C158	158
PCB-111	53.2	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.88			PCB-163	-	-	C138	138/164
PCB-114	45.3	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.13		
PCB-117	-	-	C087	87/125	PCB-167	37.1	-		
PCB-118	-	-	C	106	PCB-168	ND	3.99		
PCB-119	70.4	-			PCB-169	ND	3.85		
PCB-120	ND	4.32			PCB-170	155	-		
PCB-121	4590	-			PCB-171	59.9	-		
PCB-122	21.7	-			PCB-172	142	-		
PCB-123	32.9	-			PCB-173	ND	3.13		
PCB-124	75.2	-			PCB-174	244	-		
PCB-125	-	-	C087	87/117	PCB-175	16.0	-	J	
PCB-126	11.5	-	J		PCB-176	49.8	-		
PCB-127	ND	3.77			PCB-177	148	-		
PCB-128	203	-	C	162	PCB-178	66.8	-		
PCB-129	71.8	-			PCB-179	162	-		
PCB-130	104	-			PCB-180	431	-		
PCB-131	49.8	-	C	133	PCB-181	ND	2.85		
PCB-132	539	-	C	161	PCB-182	338	-	C	187
PCB-133	-	-	C131	131	PCB-183	146	-		
PCB-134	119	-	C	143	PCB-184	5010	-		
PCB-135	323	-			PCB-185	32.1	-		
PCB-136	346	-			PCB-186	6.94	-	J	
PCB-137	65.6	-			PCB-187	-	-	C182	182
PCB-138	1450	-	C	163/164	PCB-188	13.1	-	J	
PCB-139	1680	-	C	149	PCB-189	10.9	-	J	
PCB-140	19.0	-	J		PCB-190	38.3	-		
PCB-141	297	-			PCB-191	ND	2.05		
PCB-142	12400	-			PCB-192	3620	-		
PCB-143	-	-	C134	134	PCB-193	27.8	-		
PCB-144	101	-			PCB-194	65.7	-		
PCB-145	ND	1.95			PCB-195	33.6	-		
PCB-146	283	-	C	165	PCB-196	83.5	-	C	203
PCB-147	36.7	-			PCB-197	54.5	-		
PCB-148	ND	2.46			PCB-198	9.85	-	J	
PCB-149	-	-	C139	139	PCB-199	82.5	-		
PCB-150	8.40	-	J		PCB-200	15.7	-	J	

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12510-011-SA
Client ID: LDW-Y2-SU-ENR-CC-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-1-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-01-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	10.7	-	J	
PCB-202	25.0	-		
PCB-203	-	-	C196	196
PCB-204	8830	-		
PCB-205	15.0	-	J	
PCB-206	25.9	-		
PCB-207	43.9	-		
PCB-208	11.1	-	J	
PCB-209	54.0	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	81.1	5.00 - 145	
13C-PCB-3	86.3	5.00 - 145	
13C-PCB-4	86.0	5.00 - 145	
13C-PCB-15	97.4	5.00 - 145	
13C-PCB-19	90.7	5.00 - 145	
13C-PCB-37	99.8	5.00 - 145	
13C-PCB-54	91.6	5.00 - 145	
13C-PCB-77	89.1	10.0 - 145	
13C-PCB-81	92.3	10.0 - 145	
13C-PCB-104	94.3	10.0 - 145	
13C-PCB-105	96.7	10.0 - 145	
13C-PCB-114	103	10.0 - 145	
13C-PCB-118	102	10.0 - 145	
13C-PCB-123	103	10.0 - 145	
13C-PCB-126	96.3	10.0 - 145	
13C-PCB-155	98.3	10.0 - 145	
13C-PCB-156	85.3	10.0 - 145	
13C-PCB-157	88.5	10.0 - 145	
13C-PCB-167	91.0	10.0 - 145	
13C-PCB-169	85.0	10.0 - 145	
13C-PCB-188	95.8	10.0 - 145	
13C-PCB-189	84.7	10.0 - 145	
13C-PCB-202	87.6	10.0 - 145	
13C-PCB-205	91.6	10.0 - 145	
13C-PCB-206	95.6	10.0 - 145	
13C-PCB-208	85.1	10.0 - 145	
13C-PCB-209	85.5	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	89.2	5.00 - 145	
13C-PCB-111	89.0	10.0 - 145	
13C-PCB-178	89.2	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: 8/6/2019

Reviewed By: DPV

Date: 8/6/2019

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EPA Method 1668
PCBs

FAL ID: 12510-014-SA
Client ID: LDW-Y2-SU-S010-LCB
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019
Total Conc: 54000

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	17.6			PCB-51	14.9	-	J	
PCB-2	ND	13.1			PCB-52	56.1	-	C	69
PCB-3	ND	11.4			PCB-53	5.29	-	J	
PCB-4	ND	39.8			PCB-54	ND	1.71		
PCB-5	ND	13.5			PCB-55	141	-		
PCB-6	ND	13.1			PCB-56	ND	2.91	C	60
PCB-7	ND	13.4			PCB-57	ND	1.98		
PCB-8	ND	14.3			PCB-58	ND	1.96		
PCB-9	ND	14.0			PCB-59	-	-	C042,J	42
PCB-10	ND	15.3			PCB-60	-	-	C056	56
PCB-11	110	-			PCB-61	25.1	-	C	70
PCB-12	ND	14.7			PCB-62	ND	1.86		
PCB-13	ND	15.0			PCB-63	ND	1.96		
PCB-14	886	-			PCB-64	-	-	C041	41/71/72
PCB-15	ND	11.1			PCB-65	ND	2.03		
PCB-16	9.19	-	J		PCB-66	15.1	-	C,J	76
PCB-17	15.4	-	J		PCB-67	ND	2.00		
PCB-18	30.0	-			PCB-68	33.6	-		
PCB-19	ND	7.90			PCB-69	-	-	C052	52
PCB-20	7.04	-	C,J	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020,J	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	2.58			PCB-72	-	-	C041	41/64/71
PCB-23	ND	2.65			PCB-73	32.8	-		
PCB-24	ND	5.44			PCB-74	11.1	-	J	
PCB-25	ND	2.70			PCB-75	-	-	C048,J	48
PCB-26	ND	2.58			PCB-76	-	-	C066,J	66
PCB-27	ND	5.42			PCB-77	ND	3.53		
PCB-28	8.04	-	J		PCB-78	3260	-		
PCB-29	ND	2.53			PCB-79	ND	3.09		
PCB-30	ND	5.25			PCB-80	24.0	-		
PCB-31	9.15	-	J		PCB-81	ND	2.95		
PCB-32	13.0	-	J		PCB-82	ND	2.06		
PCB-33	-	-	C020,J	20/21	PCB-83	ND	1.41	C	112
PCB-34	ND	2.61			PCB-84	5.38	-	C,J	92
PCB-35	ND	3.07			PCB-85	ND	1.43	C	116
PCB-36	1030	-			PCB-86	6.49	-	J	
PCB-37	ND	2.91			PCB-87	4.36	-	C,J	117/125
PCB-38	ND	2.85			PCB-88	ND	0.812	C	91
PCB-39	ND	2.81			PCB-89	ND	1.42		
PCB-40	9.23	-	J		PCB-90	11.5	-	C,J	101
PCB-41	25.5	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	11.6	-	C,J	59	PCB-92	-	-	C084,J	84
PCB-43	25.1	-	C	49	PCB-93	65.9	-		
PCB-44	40.5	-			PCB-94	ND	0.906		
PCB-45	6.96	-	J		PCB-95	20.7	-		
PCB-46	ND	2.71			PCB-96	ND	0.595		
PCB-47	68.4	-			PCB-97	3.43	-	J	
PCB-48	10.6	-	C,J	75	PCB-98	ND	0.869	C	102
PCB-49	-	-	C043	43	PCB-99	3.92	-	J	
PCB-50	9.36	-	J		PCB-100	9.28	-	J	

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EPA Method 1668
PCBs

FAL ID: 12510-014-SA
Client ID: LDW-Y2-SU-S010-LCB
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090,J	90	PCB-151	ND	1.57		
PCB-102	-	-	C098	98	PCB-152	ND	1.13		
PCB-103	ND	0.739			PCB-153	97.1	-		
PCB-104	2700	-			PCB-154	15.9	-	J	
PCB-105	ND	1.02			PCB-155	4190	-		
PCB-106	4.65	-	C,J	118	PCB-156	ND	1.13		
PCB-107	ND	1.06	C	108	PCB-157	ND	1.14		
PCB-108	-	-	C107	107	PCB-158	3.40	-	C,J	160
PCB-109	ND	1.17			PCB-159	5.31	-	J	
PCB-110	9.62	-	J		PCB-160	-	-	C158,J	158
PCB-111	ND	1.08	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.13			PCB-163	-	-	C138,J	138/164
PCB-114	ND	1.09			PCB-164	-	-	C138,J	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	1.09		
PCB-117	-	-	C087,J	87/125	PCB-167	ND	0.992		
PCB-118	-	-	C,J	106	PCB-168	ND	1.09		
PCB-119	ND	1.03			PCB-169	ND	1.01		
PCB-120	ND	1.10			PCB-170	ND	1.66		
PCB-121	6190	-			PCB-171	ND	1.60		
PCB-122	ND	1.09			PCB-172	139	-		
PCB-123	ND	1.14			PCB-173	ND	1.76		
PCB-124	ND	1.13			PCB-174	ND	1.69		
PCB-125	-	-	C087,J	87/117	PCB-175	ND	1.56		
PCB-126	ND	1.21			PCB-176	ND	1.18		
PCB-127	ND	1.12			PCB-177	ND	1.87		
PCB-128	ND	1.28	C	162	PCB-178	ND	1.84		
PCB-129	ND	1.71			PCB-179	ND	1.18		
PCB-130	ND	1.72			PCB-180	ND	1.66		
PCB-131	ND	1.66	C	133	PCB-181	7.45	-	J	
PCB-132	ND	1.27	C	161	PCB-182	4.31	-	C,J	187
PCB-133	-	-	C131	131	PCB-183	7.07	-	J	
PCB-134	ND	1.59	C	143	PCB-184	5650	-		
PCB-135	ND	1.52			PCB-185	ND	1.67		
PCB-136	ND	1.26			PCB-186	4.80	-	J	
PCB-137	ND	1.43			PCB-187	-	-	C182,J	182
PCB-138	4.94	-	C,J	163/164	PCB-188	3.92	-	J	
PCB-139	7.22	-	C,J	149	PCB-189	ND	0.964		
PCB-140	ND	1.38			PCB-190	ND	1.16		
PCB-141	ND	1.50			PCB-191	ND	1.19		
PCB-142	14700	-			PCB-192	3690	-		
PCB-143	-	-	C134	134	PCB-193	ND	1.17		
PCB-144	ND	1.48			PCB-194	ND	1.53		
PCB-145	ND	1.19			PCB-195	ND	1.67		
PCB-146	ND	1.18	C	165	PCB-196	ND	1.34	C	203
PCB-147	ND	1.30			PCB-197	40.8	-		
PCB-148	ND	1.68			PCB-198	ND	1.65		
PCB-149	-	-	C139,J	139	PCB-199	ND	1.45		
PCB-150	ND	1.03			PCB-200	ND	1.20		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 12510-014-SA
Client ID: LDW-Y2-SU-S010-LCB
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.24		
PCB-202	ND	1.19		
PCB-203	-	-	C196	196
PCB-204	10400	-		
PCB-205	ND	1.18		
PCB-206	ND	2.60		
PCB-207	35.8	-		
PCB-208	ND	1.85		
PCB-209	42.7	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	11.6	5.00 - 145	
13C-PCB-3	23.2	5.00 - 145	
13C-PCB-4	45.0	5.00 - 145	
13C-PCB-15	159	5.00 - 145	A
13C-PCB-19	118	5.00 - 145	
13C-PCB-37	93.5	5.00 - 145	
13C-PCB-54	41.8	5.00 - 145	
13C-PCB-77	104	10.0 - 145	
13C-PCB-81	107	10.0 - 145	
13C-PCB-104	102	10.0 - 145	
13C-PCB-105	82.4	10.0 - 145	
13C-PCB-114	86.4	10.0 - 145	
13C-PCB-118	83.6	10.0 - 145	
13C-PCB-123	90.2	10.0 - 145	
13C-PCB-126	84.7	10.0 - 145	
13C-PCB-155	89.9	10.0 - 145	
13C-PCB-156	73.5	10.0 - 145	
13C-PCB-157	75.6	10.0 - 145	
13C-PCB-167	79.8	10.0 - 145	
13C-PCB-169	72.6	10.0 - 145	
13C-PCB-188	90.5	10.0 - 145	
13C-PCB-189	82.1	10.0 - 145	
13C-PCB-202	79.9	10.0 - 145	
13C-PCB-205	84.1	10.0 - 145	
13C-PCB-206	79.4	10.0 - 145	
13C-PCB-208	84.8	10.0 - 145	
13C-PCB-209	74.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	69.0	5.00 - 145	
13C-PCB-111	100	10.0 - 145	
13C-PCB-178	92.5	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: 8/6/2019

Reviewed By: DPV

Date: 8/6/2019

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EPA Method 1668
PCBs

FAL ID: 12510-015-SA
Client ID: LDW-Y2-IN-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019
Total Conc: 48100

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	544			PCB-51	25.8	-		
PCB-2	ND	93.7			PCB-52	1120	-	C	69
PCB-3	ND	63.7			PCB-53	81.3	-		
PCB-4	ND	623			PCB-54	ND	2.34		
PCB-5	ND	10.4			PCB-55	137	-		
PCB-6	ND	10.1			PCB-56	48.8	-	C	60
PCB-7	ND	10.3			PCB-57	9.52	-	J	
PCB-8	19.3	-	J		PCB-58	5.17	-	J	
PCB-9	ND	10.7			PCB-59	-	-	C042	42
PCB-10	ND	11.7			PCB-60	-	-	C056	56
PCB-11	35.4	-			PCB-61	624	-	C	70
PCB-12	ND	11.3			PCB-62	ND	2.55		
PCB-13	ND	11.5			PCB-63	25.2	-		
PCB-14	135	-			PCB-64	-	-	C041	41/71/72
PCB-15	13.4	-	J		PCB-65	ND	2.79		
PCB-16	91.2	-			PCB-66	546	-	C	76
PCB-17	171	-			PCB-67	23.6	-		
PCB-18	336	-			PCB-68	32.4	-		
PCB-19	16.4	-	J		PCB-69	-	-	C052	52
PCB-20	43.9	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	27.6	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	2.75			PCB-73	30.3	-		
PCB-24	33.3	-			PCB-74	251	-		
PCB-25	15.8	-	J		PCB-75	-	-	C048	48
PCB-26	28.3	-			PCB-76	-	-	C066	66
PCB-27	21.7	-			PCB-77	14.3	-	J	
PCB-28	81.4	-			PCB-78	1630	-		
PCB-29	ND	2.64			PCB-79	6.55	-	J	
PCB-30	ND	6.92			PCB-80	ND	2.28		
PCB-31	79.1	-			PCB-81	13.1	-	J	
PCB-32	124	-			PCB-82	42.3	-		
PCB-33	-	-	C020	20/21	PCB-83	21.4	-	C	112
PCB-34	ND	2.71			PCB-84	212	-	C	92
PCB-35	ND	3.20			PCB-85	69.3	-	C	116
PCB-36	340	-			PCB-86	ND	4.23		
PCB-37	21.4	-			PCB-87	155	-	C	117/125
PCB-38	ND	2.96			PCB-88	ND	1.35	C	91
PCB-39	ND	2.92			PCB-89	4.67	-	J	
PCB-40	83.5	-			PCB-90	393	-	C	101
PCB-41	472	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	196	-	C	59	PCB-92	-	-	C084	84
PCB-43	667	-	C	49	PCB-93	ND	1.49		
PCB-44	608	-			PCB-94	3.92	-	J	
PCB-45	69.0	-			PCB-95	676	-		
PCB-46	24.7	-			PCB-96	4.82	-	J	
PCB-47	233	-			PCB-97	127	-		
PCB-48	120	-	C	75	PCB-98	ND	1.45	C	102
PCB-49	-	-	C043	43	PCB-99	166	-		
PCB-50	10.4	-	J		PCB-100	10.4	-	J	

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EPA Method 1668
PCBs

FAL ID: 12510-015-SA
Client ID: LDW-Y2-IN-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	99.0	-		
PCB-102	-	-	C098	98	PCB-152	ND	1.44		
PCB-103	9.63	-	J		PCB-153	401	-		
PCB-104	1570	-			PCB-154	22.5	-		
PCB-105	92.9	-			PCB-155	3070	-		
PCB-106	289	-	C	118	PCB-156	23.6	-		
PCB-107	24.9	-	C	108	PCB-157	9.01	-	J	
PCB-108	-	-	C107	107	PCB-158	41.5	-	C	160
PCB-109	ND	2.83			PCB-159	8.29	-	J	
PCB-110	475	-			PCB-160	-	-	C158	158
PCB-111	8.06	-	C,J	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	2.75			PCB-163	-	-	C138	138/164
PCB-114	7.40	-	J		PCB-164	-	-	C138	138/163
PCB-115	-	-	C111,J	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	1.22		
PCB-117	-	-	C087	87/125	PCB-167	12.2	-	J	
PCB-118	-	-	C	106	PCB-168	ND	1.21		
PCB-119	11.7	-	J		PCB-169	ND	1.13		
PCB-120	ND	2.67			PCB-170	37.2	-		
PCB-121	4110	-			PCB-171	ND	1.15		
PCB-122	3.80	-	J		PCB-172	110	-		
PCB-123	6.47	-	J		PCB-173	ND	1.26		
PCB-124	16.8	-	J		PCB-174	54.4	-		
PCB-125	-	-	C087	87/117	PCB-175	3.22	-	J	
PCB-126	ND	1.75			PCB-176	9.65	-	J	
PCB-127	ND	1.57			PCB-177	34.7	-		
PCB-128	53.8	-	C	162	PCB-178	18.0	-	J	
PCB-129	20.3	-			PCB-179	33.4	-		
PCB-130	32.2	-			PCB-180	103	-		
PCB-131	12.5	-	C,J	133	PCB-181	6.71	-	J	
PCB-132	113	-	C	161	PCB-182	75.3	-	C	187
PCB-133	-	-	C131,J	131	PCB-183	38.3	-		
PCB-134	29.8	-	C	143	PCB-184	4290	-		
PCB-135	71.3	-			PCB-185	7.18	-	J	
PCB-136	84.5	-			PCB-186	3.96	-	J	
PCB-137	21.1	-			PCB-187	-	-	C182	182
PCB-138	340	-	C	163/164	PCB-188	6.08	-	J	
PCB-139	348	-	C	149	PCB-189	ND	0.662		
PCB-140	ND	1.53			PCB-190	9.14	-	J	
PCB-141	64.0	-			PCB-191	ND	0.855		
PCB-142	10100	-			PCB-192	3140	-		
PCB-143	-	-	C134	134	PCB-193	8.14	-	J	
PCB-144	19.2	-	J		PCB-194	12.3	-	J	
PCB-145	ND	1.50			PCB-195	6.09	-	J	
PCB-146	79.0	-	C	165	PCB-196	19.7	-	C,J	203
PCB-147	11.3	-	J		PCB-197	47.7	-		
PCB-148	ND	2.14			PCB-198	ND	2.37		
PCB-149	-	-	C139	139	PCB-199	19.2	-	J	
PCB-150	ND	1.30			PCB-200	ND	1.72		

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EPA Method 1668
PCBs

FAL ID: 12510-015-SA
Client ID: LDW-Y2-IN-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X4989

Date Extracted: 07-31-2019
Date Received: 06-28-2019
Amount: 1.00 sample

ICal: DAILY209FAL4-8-2-19
GC Column: DB1MS
Units: pg/sample

Acquired: 08-02-2019

Compound	Conc	DL	Qual	Coeluters
PCB-201	3.85	-	J	
PCB-202	6.97	-	J	
PCB-203	-	-	C196,J	196
PCB-204	7570	-		
PCB-205	ND	1.15		
PCB-206	4.57	-	J	
PCB-207	31.8	-		
PCB-208	2.64	-	J	
PCB-209	38.5	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	0.305	5.00 - 145	A
13C-PCB-3	4.19	5.00 - 145	A
13C-PCB-4	6.70	5.00 - 145	
13C-PCB-15	474	5.00 - 145	A
13C-PCB-19	141	5.00 - 145	
13C-PCB-37	106	5.00 - 145	
13C-PCB-54	34.1	5.00 - 145	
13C-PCB-77	106	10.0 - 145	
13C-PCB-81	104	10.0 - 145	
13C-PCB-104	99.9	10.0 - 145	
13C-PCB-105	85.8	10.0 - 145	
13C-PCB-114	89.6	10.0 - 145	
13C-PCB-118	84.0	10.0 - 145	
13C-PCB-123	91.7	10.0 - 145	
13C-PCB-126	87.2	10.0 - 145	
13C-PCB-155	89.9	10.0 - 145	
13C-PCB-156	83.8	10.0 - 145	
13C-PCB-157	82.2	10.0 - 145	
13C-PCB-167	86.2	10.0 - 145	
13C-PCB-169	85.0	10.0 - 145	
13C-PCB-188	89.4	10.0 - 145	
13C-PCB-189	94.2	10.0 - 145	
13C-PCB-202	91.1	10.0 - 145	
13C-PCB-205	84.3	10.0 - 145	
13C-PCB-206	80.4	10.0 - 145	
13C-PCB-208	87.5	10.0 - 145	
13C-PCB-209	71.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	66.2	5.00 - 145	
13C-PCB-111	95.7	10.0 - 145	
13C-PCB-178	92.7	10.0 - 145	

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

Analyst: [signature]

Date: 8/6/2019

Reviewed By: DPV

Date: 8/6/2019

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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.: 12510
Temperature: 1 °C

Chain of Custody

www.frontieranalytical.com

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)
		* 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-Y2-SC-SO10-TB	6-24-19	1111	hexane									✓			Process, do run on GC
2	LDW-Y2-SU-SO10-TB	6-24-19	1118	hexane									✓			Process, do run on GC
3	LDW-Y2-IN-SO10-TB	6-24-19	1128	hexane									✓			Process, do run on GC
4	LDW-Y2-SU-ENR+AC-CA-SO10	6-24-19	0858	hexane									✓			Process, do run on GC
5	LDW-Y2-SU-ENR+AC-CB-SO10	6-24-19	0913	hexane									✓			Process, do run on GC
6	LDW-Y2-SU-ENR+AC-CC-SO10	6-24-19	0922	hexane									✓			Process, do run on GC
7	LDW-Y2-SU-ENR+AC-CD-SO10	6-24-19	0933	hexane									✓			Process, do not run on GC
8	LDW-Y2-SU-ENR+AC-CE-SO10	6-24-19	0945	hexane									✓			Process, do not run on GC
9	LDW-Y2-SU-ENR-CA-SO10	6-24-19	1016	hexane									✓			Process, do run on GC
10	LDW-Y2-SU-ENR-CB-SO10	6-24-19	1026	hexane									✓			Process, do run on GC
11	LDW-Y2-SU-ENR-CC-SO10	6-24-19	1035	hexane									✓			Process, do run on GC
12	LDW-Y2-SU-ENR-CD-SO10	6-24-19	1044	hexane									✓			Process, do not run on GC
13	LDW-Y2-SU-ENR-CE-SO10	6-24-19	1052	hexane									✓			Process, do not run on GC
14	LDW-Y2-SU-SO10-LCB	6-24-19	1100	hexane									✓			Process, do run on GC
15	LDW-Y2-IN-ENR+AC-CA-SO10	6-25-19	0944	hexane									✓			Process, do run on GC

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

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Collin Ray	6/26/19	1412	Kathy Spp K-2 Spp	6-28-19	900

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

Kathy Zipp

From: Brad Silverbush
Sent: Tuesday, July 09, 2019 1:35 PM
To: Kathy Zipp
Subject: FW: KC-ENR Pilot Study

Bradley B. Silverbush
Director of Operations
Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
916-934-0900
brads@frontieranalytical.com
www.frontieranalytical.com

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From: Gretchen Heavner [mailto:Gretchen.Heavner@floydsnider.com]
Sent: Tuesday, July 09, 2019 1:32 PM
To: Brad Silverbush
Cc: Thimsen, Crystal; Whitmus, Cliff
Subject: RE: KC-ENR Pilot Study

Brad,
Please proceed with analysis of the following samples. Please note that we have two sets of two samples that we would like you to make composites with before sampling (noted below). Let me know if you have any questions!

12510
1 LDW-Y2-SC-S010-TB
2 LDW-Y2-SU-S010-TB
3 LDW-Y2-IN-S010-TB
4 LDW-Y2-SU-ENR+AC-CA-S010
5 LDW-Y2-SU-ENR+AC-CB-S010
6 LDW-Y2-SU-ENR+AC-CC-S010
9 LDW-Y2-SU-ENR-CA-S010
10 LDW-Y2-SU-ENR-CB-S010
11 LDW-Y2-SU-ENR-CC-S010
14 LDW-Y2-SU-S010-LCB

15 LDW-Y2-IN-ENR+AC-CA-S010

12511

1 LDW-Y2-IN-ENR+AC-CB-S010
2 LDW-Y2-IN-ENR+AC-CC-S010
3 LDW-Y2-IN-ENR-CA-S010
4 LDW-Y2-IN-ENR-CB-S010
9 LDW-Y2-IN-ENR-CE-S010
10 LDW-Y2-IN-ENR+AC-CA-SSWI
11 LDW-Y2-IN-ENR+AC-CB-SSWI
12 LDW-Y2-IN-ENR+AC-CC-SSWI
15 LDW-Y2-IN-ENR-CA-SSWI

12512

1 LDW-Y2-IN-ENR-CB-SSWI
4 LDW-Y2-IN-ENR-CE-SSWI
Make a composite of the following two samples: LDW-Y2-SC-ENR+AC-CA-S010 (5) and LDW-Y2-SC-ENR+AC-CD-S010 (8)
6 LDW-Y2-SC-ENR+AC-CB-S010
7 LDW-Y2-SC-ENR+AC-CC-S010
13 LDW-Y2-SC-ENR-CC-S010
14 LDW-Y2-SC-ENR-CD-S010
15 LDW-Y2-SC-ENR-CE-S010

12513

Make a composite of the following two samples: LDW-Y2-SC-ENR+AC-CA-SSWI (1) and LDW-Y2-SC-ENR+AC-CD-SSWI (4)
2 LDW-Y2-SC-ENR+AC-CB-SSWI
3 LDW-Y2-SC-ENR+AC-CC-SSWI
8 LDW-Y2-SC-ENR-CC-SSWI
9 LDW-Y2-SC-ENR-CD-SSWI
10 LDW-Y2-SC-ENR-CE-SSWI

Gretchen Heavner, Ph.D.
FLOYD | SNIDER
601 Union Street, Suite 600 | Seattle, WA 98101
tel: 206.292.2078 | fax: 206.682.7867
Gretchen.Heavner@floydsnider.com | www.floydsnider.com

From: Brad Silverbush <brads@frontieranalytical.com>
Sent: Thursday, June 27, 2019 2:14 PM
To: Gretchen Heavner <Gretchen.Heavner@floydsnider.com>
Cc: Thimsen, Crystal <crystal.thimsen@woodplc.com>; Whitmus, Cliff <cliff.whitmus@woodplc.com>
Subject: RE: KC-ENR Pilot Study

Hi Gretchen,

Will do.

Thanks,
Brad

Bradley B. Silverbush

Director of Operations
Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
916-934-0900
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From: Gretchen Heavner [mailto:Gretchen.Heavner@floydsnider.com]
Sent: Thursday, June 27, 2019 2:07 PM
To: Brad Silverbush
Cc: Thimsen, Crystal; Whitmus, Cliff
Subject: RE: KC-ENR Pilot Study

Brad,
Can you also hold off on starting any analyses on the samples you receive tomorrow until we give you the go ahead? We need the ok from the client.
Thanks!

Gretchen Heavner, Ph.D.
FLOYD | SNIDER
601 Union Street, Suite 600 | Seattle, WA 98101
tel: 206.292.2078 | fax: 206.682.7867
Gretchen.Heavner@floydsnider.com | www.floydsnider.com

From: Gretchen Heavner
Sent: Thursday, June 27, 2019 11:31 AM
To: 'Brad Silverbush (brads@frontieranalytical.com)' <brads@frontieranalytical.com>
Cc: Thimsen, Crystal <crystal.thimsen@woodplc.com>; Whitmus, Cliff <cliff.whitmus@woodplc.com>
Subject: KC-ENR Pilot Study

NO

~~Hi Brad,~~
~~The sample that we would like you to increase the injection amount as much as possible is:~~

~~LDW-Y2-SC-ENR+AC-CA-S010~~

~~Thanks, and let me know if you have any questions!~~

Gretchen Heavner, Ph.D.
FLOYD | SNIDER

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **12510**

Client:	Floyd | Snider
Client Project ID:	LY15160310
Date Received:	06/28/2019
Time Received:	09:00 am
Received By:	KZ
Logged In By:	RR
# of Samples Received:	15
Duplicates:	0
Storage Location:	R-5

Method of Delivery:	Fed-Ex
Tracking Number:	775583070026
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	Yes
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A

Anomalies or additional comments:

Samples 1-15 ON HOLD

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5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999
FAL USE ONLY
Laboratory Project No.: 12510
Temperature: 1 °C
Chain of Custody
www.frontieranalytical.com
Please Print in Pen
Page 1 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
White Copy – Report
Yellow Copy – Laboratory
Sample ID
Date Collected
Time
EPA 1613**
EPA 8290**
DLM 02.0
EPA 8280**
Appendix IX
FAL 15
Other
**CONGENERS
**TEQ
2,3,7,8-TCDD only
1998 WHO
PCDD/F
2005 WHO
Other
Process,
12510-001-SA
Client ID: LDW-Y2-SC-S010-TB
Storage: R-5
(01 of 01)
12510-002-SA
Client ID: LDW-Y2-SU-S010-TB
Storage: R-5
(01 of 01)
12510-003-SA
Client ID: LDW-Y2-IN-S010-TB
Storage: R-5
(01 of 01)
12510-004-SA
Client ID: LDW-Y2-SU-ENR+AC-CA-S010
Storage: R-5
(01 of 01)
12510-005-SA
Client ID: LDW-Y2-SU-ENR+AC-CB-S010
Storage: R-5
(01 of 01)
12510-006-SA
Client ID: LDW-Y2-SU-ENR+AC-CC-S010
Storage: R-5
(01 of 01)
12510-007-SA
(01 of 01)
2019/06/28

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~~ON HOLD~~
off hold
7-11

Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #:	12510	Sample #:	1 - 15	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	06/23/2020
Matrix:	Solvent	Extraction Batch:	4989	Due Date:	~~07/23/2019~~ 8/9/19
Method:	EPA 1668 PCB			Storage:	R-5
SOP:	SOPs: EP1A Rev.13/IP1A Rev.11				

COMMENTS/INSTRUCTIONS:

~~See~~

Results: ~~125~~ 12510
12510-11
12510-14

Extract/s located in box: "Hotter than Hades"

Standards: 12510

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

7/8/19 Gretchen to Kathy Extract all Samples.
~~LL & Floyd Snider EDD~~
7/9/19 analyze the following
Samples 1-6, 9-11, 14 & 15 off hold & analize.
~~See Special Instructions for Sample # 4.~~ KT 7.11.19

Frontier Analytical Laboratory

EXTRACTION SHEET

Project #: 12510 Extraction Date: 2019-07-31 Extraction Chemist: KC

Method/Analysis: EPA 1668 PCB

Procedure: Solvent Dilution Solvent: Hexane

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS Amt: 10.0uL ID: R190613A Vial: 1 Chemist/Witness/Date	NS Amt: 10.0uL ID: 190510A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R190613B Vial: 1 Chemist/Witness/Date
04989-001-0001-MB	(5.00g)	NA	KC 7.31.19	NA	KC 7.31.19
04989-001-0001-OPR	(5.00g)			KC 7.31.19	
12510-001-0001-SA	5.60g			NA	
12510-002-0001-SA	5.60g				
12510-003-0001-SA	5.40g				
12510-004-0001-SA	5.50g				
12510-005-0001-SA	5.20g				
12510-006-0001-SA	5.50g				
12510-007-0001-SA	5.50g				
12510-008-0001-SA	5.40g				
12510-009-0001-SA	5.50g				
12510-010-0001-SA	5.60g				
12510-011-0001-SA	5.70g				
12510-012-0001-SA	5.60g				
12510-013-0001-SA	5.30g				
12510-014-0001-SA	5.50g				
12510-015-0001-SA	5.40g				

AX-21 Charcoal Cleaned	110617	Acetone	58341	Acid Alumina	A0388461	Hexane	59018
Methanol	186960	Methylene Chloride (DCM)	59081	Silica Gel	TA5022134	Sodium Hydroxide 1N	178056
Sodium Sulfate	18E165217	Sulfuric Acid	190027	Tetradecane	181247	Toluene	185670
Water	58201	C-18 Empore Discs	031319	Cyclohexane	58152		

Comments:
- MB and OPR blank matrix = 500 mL of Hexane.
- Volumes approximate, measured using a 5.0mL pipet. KC 7.31.19

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 12510

Method/Analysis: EPA 1668 PCB

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

Sample ID	Cleanup 1	Cleanup 2	Cleanup 3	RS
	PCB-AP	NA	NA	Amt: 10.0uL ID: 190723A Vial: 1
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
04989-001-0001-MB	KC 7-31-19	NA	NA	KC 7-31-19
04989-001-0001-OPR				
12510-001-0001-SA				
12510-002-0001-SA				
12510-003-0001-SA				
12510-004-0001-SA				
12510-005-0001-SA				
12510-006-0001-SA				
12510-007-0001-SA				
12510-008-0001-SA				
12510-009-0001-SA				
12510-010-0001-SA				
12510-011-0001-SA				
12510-012-0001-SA				
12510-013-0001-SA				
12510-014-0001-SA				
12510-015-0001-SA				

AX-21 Charcoal Cleaned	110617	Acetone	58341	Acid Alumina	A0388461	Hexane	59018
Methanol	186960	Methylene Chloride (DCM)	59081	Silica Gel	TA5022134	Sodium Hydroxide 1N	178056
Sodium Sulfate	18E165217	Sulfuric Acid	190027	Tetradecane	181247	Toluene	185670
Water	58201	C-18 Empore Discs	031319	Cyclohexane	58152		

Comments:

FAL ID: 04989-001-0001-MB Filename: 31JUL19Z Sam:4 Acquired: 31-JUL-19 15:20:08 ICal: DAILY209FAL4-7-31-19
Client ID: Method Blank ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.20	*		1580	1110	1.06	
13C-PCB-1	1.54e+08	3.16	y	14:32	0.94	8750					87.5
PCB-2	*	*	n	NotFnd	1.19	*		1580	1110	1.16	
PCB-3	*	*	n	NotFnd	1.22	*		1580	1110	1.23	
13C-PCB-3	1.45e+08	3.16	y	16:58	0.88	8760					87.6
PCB-4	*	*	n	NotFnd	1.16	*		614	8090	5.39	
PCB-10	*	*	n	NotFnd	1.41	*		614	6540	3.45	
13C-PCB-4	1.12e+08	1.59	y	18:11	0.67	8890					88.9
PCB-9	*	*	n	NotFnd	1.44	*		614	6540	3.38	
PCB-7	*	*	n	NotFnd	1.43	*		614	6540	3.42	
PCB-6	*	*	n	NotFnd	1.49	*		614	6540	3.27	
PCB-8	*	*	n	NotFnd	1.36	*		614	6540	3.60	
PCB-5	*	*	n	NotFnd	1.45	*		614	6540	3.36	
PCB-14	*	*	n	NotFnd	1.36	*		614	6540	3.58	
PCB-11	*	*	n	NotFnd	1.24	*		614	6540	3.92	
PCB-13	*	*	n	NotFnd	1.24	*		614	6540	3.92	
PCB-12	*	*	n	NotFnd	1.28	*		614	6540	3.80	
PCB-15	*	*	n	NotFnd	1.16	*		614	6540	4.07	
13C-PCB-15	1.63e+08	1.59	y	23:43	0.91	9510					95.1
PCB-19	*	*	n	NotFnd	1.16	*		1460	1230	2.48	
PCB-30	*	*	n	NotFnd	1.70	*		1460	1230	1.70	
PCB-18	*	*	n	NotFnd	1.12	*		1460	1230	2.57	
PCB-17	*	*	n	NotFnd	1.27	*		1460	1230	2.28	
PCB-27	*	*	n	NotFnd	1.62	*		1460	1230	1.78	
PCB-24	*	*	n	NotFnd	1.68	*		1460	1230	1.72	
PCB-16	*	*	n	NotFnd	1.38	*		1460	1230	2.09	
PCB-32	*	*	n	NotFnd	1.46	*		1460	1230	1.97	
13C-PCB-19	8.28e+07	1.07	y	22:04	0.49	8960					89.6
13C-PCB-9	1.88e+08	1.61	y	19:52	-	111					
PCB-34	*	*	n	NotFnd	1.23	*		2060	988	2.52	
PCB-23	*	*	n	NotFnd	1.39	*		2060	988	2.23	
PCB-29	*	*	n	NotFnd	1.33	*		2060	988	2.33	
PCB-26	*	*	n	NotFnd	1.26	*		2060	988	2.47	
PCB-25	*	*	n	NotFnd	1.26	*		2060	988	2.47	
PCB-31	*	*	n	NotFnd	1.19	*		2060	988	2.61	
PCB-28	*	*	n	NotFnd	1.60	*		2060	988	1.94	
PCB-20	*	*	n	NotFnd	1.25	*		2060	988	2.49	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.25	*		2060	988	2.49	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.25	*		2060	988	2.49	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.40	*		2060	988	2.22	
PCB-36	*	*	n	NotFnd	1.24	*		2060	988	2.50	
PCB-39	*	*	n	NotFnd	1.25	*		2060	988	2.48	
PCB-38	*	*	n	NotFnd	1.27	*		2060	988	2.45	
PCB-35	*	*	n	NotFnd	1.14	*		2060	988	2.72	
PCB-37	*	*	n	NotFnd	1.21	*		2060	988	2.57	
13C-PCB-37	1.19e+08	1.04	y	30:22	1.51	8930					89.3

PCB-54	*	*	n	NotFnd	1.24	*	1560	2600	2.77	
PCB-50	*	*	n	NotFnd	0.93	*	1560	2600	3.68	
PCB-53	*	*	n	NotFnd	0.90	*	1560	2600	3.81	
PCB-51	*	*	n	NotFnd	0.96	*	1560	2600	3.57	
PCB-45	*	*	n	NotFnd	0.79	*	1560	2600	4.37	
PCB-46	*	*	n	NotFnd	0.74	*	1560	2600	4.63	
PCB-52	*	*	n	NotFnd	0.92	*	1560	2600	3.72	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	0.92	*	1560	2600	3.72	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.13	*	1560	2600	3.04	
PCB-43	*	*	n	NotFnd	0.82	*	1560	2600	4.22	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.82	*	1560	2600	4.22	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.81	*	1560	2600	4.23	
PCB-48	*	*	n	NotFnd	1.07	*	1560	2600	3.21	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	1.07	*	1560	2600	3.21	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*	1560	2600	3.29	
PCB-62	*	*	n	NotFnd	1.06	*	1560	2600	3.25	
PCB-44	*	*	n	NotFnd	0.69	*	1560	2600	4.97	
PCB-42	*	*	n	NotFnd	0.90	*	1560	2600	3.82	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.90	*	1560	2600	3.82	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	1.02	*	1560	2600	3.37	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	1.02	*	1560	2600	3.37	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	1.02	*	1560	2600	3.37	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	1.02	*	1560	2600	3.37	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	1.17	*	1560	2600	2.94	
PCB-40	*	*	n	NotFnd	0.65	*	1560	2600	5.26	
PCB-57	*	*	n	NotFnd	1.07	*	1560	2600	3.20	
PCB-67	*	*	n	NotFnd	1.03	*	1560	2600	3.35	
PCB-58	*	*	n	NotFnd	1.14	*	1560	2600	3.00	
PCB-63	*	*	n	NotFnd	1.07	*	1560	2600	3.21	
PCB-74	*	*	n	NotFnd	1.06	*	1560	2600	3.25	
PCB-61	*	*	n	NotFnd	1.00	*	1560	2600	3.44	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.00	*	1560	2600	3.44	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.11	*	1560	2600	3.09	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.11	*	1560	2600	3.09	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.29	*	1560	2600	2.66	
PCB-55	*	*	n	NotFnd	1.13	*	1560	2600	3.04	
13C-PCB-54	1.13e+08	0.81	y	25:36	1.34	9520				95.2
PCB-104	*	*	n	NotFnd	1.09	*	789	636	1.51	
PCB-96	*	*	n	NotFnd	1.05	*	789	636	1.58	
PCB-103	*	*	n	NotFnd	0.84	*	789	636	1.98	
PCB-100	*	*	n	NotFnd	0.85	*	789	636	1.94	
PCB-94	*	*	n	NotFnd	0.70	*	789	636	2.37	
PCB-98	*	*	n	NotFnd	0.70	*	789	636	2.36	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.70	*	789	636	2.36	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.77	*	789	636	2.15	
PCB-93	*	*	n	NotFnd	0.76	*	789	636	2.17	
PCB-88	*	*	n	NotFnd	0.78	*	789	636	2.11	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.78	*	789	636	2.11	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.97	*	789	636	1.71	
13C-PCB-104	8.81e+07	1.58	y	30:02	1.08	9240				92.4
13C-PCB-28	1.55e+08	1.08	y	26:41	1.80	9770				97.7
13C-PCB-52	8.82e+07	0.81	y	28:57	-	109				

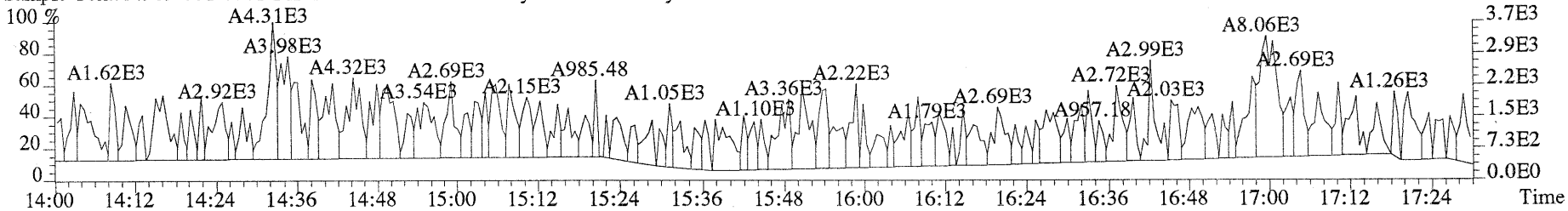
PCB-56	*	*	n	NotFnd	1.15	*	1030	1280	2.36	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.15	*	1030	1280	2.36	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.22	*	1030	1280	2.23	
PCB-78	*	*	n	NotFnd	1.19	*	1030	1280	2.29	
PCB-81	*	*	n	NotFnd	1.25	*	1030	1280	2.21	
13C-PCB-81	9.96e+07	0.80	y	36:08	1.49	9400				94.0
PCB-77	*	*	n	NotFnd	1.08	*	1030	1280	2.49	
13C-PCB-77	1.04e+08	0.80	y	36:41	1.57	9310				93.1
PCB-155	*	*	n	NotFnd	1.04	*	899	987	2.04	
PCB-150	*	*	n	NotFnd	0.98	*	899	987	2.17	
PCB-152	*	*	n	NotFnd	0.95	*	899	987	2.23	
PCB-145	*	*	n	NotFnd	0.97	*	899	987	2.17	
PCB-136	*	*	n	NotFnd	0.95	*	899	987	2.23	
PCB-148	*	*	n	NotFnd	0.70	*	899	987	3.05	
PCB-154	*	*	n	NotFnd	0.81	*	899	987	2.62	
13C-PCB-155	9.63e+07	1.26	y	34:12	1.37	9930				99.3
13C-PCB-111	7.66e+07	1.60	y	36:16	1.21	8890				88.9
13C-PCB-101	7.10e+07	1.64	y	34:39	-	101				
PCB-84	*	*	n	NotFnd	0.77	*	740	1040	2.77	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.77	*	740	1040	2.77	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.76	*	740	1040	2.80	
PCB-90	*	*	n	NotFnd	0.82	*	740	1040	2.59	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.82	*	740	1040	2.59	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.92	*	740	1040	2.31	
PCB-99	*	*	n	NotFnd	0.91	*	740	1040	2.34	
PCB-119	*	*	n	NotFnd	1.01	*	740	1040	2.10	
PCB-83	*	*	n	NotFnd	0.82	*	740	1040	2.57	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.82	*	740	1040	2.57	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.00	*	740	1040	2.13	
PCB-97	*	*	n	NotFnd	0.69	*	740	1040	3.09	
PCB-86	*	*	n	NotFnd	0.72	*	740	1040	2.97	
PCB-125	*	*	n	NotFnd	0.90	*	740	1040	2.36	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.90	*	740	1040	2.36	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.90	*	740	1040	2.36	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.01	*	740	1040	2.09	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.01	*	740	1040	2.09	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.91	*	740	1040	2.34	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.91	*	740	1040	2.34	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.04	*	740	1040	2.03	
PCB-110	*	*	n	NotFnd	1.03	*	740	1040	2.07	
PCB-82	*	*	n	NotFnd	0.60	*	740	1040	3.51	
PCB-124	*	*	n	NotFnd	1.21	*	632	1540	2.15	
PCB-108	*	*	n	NotFnd	1.14	*	632	1540	2.27	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.14	*	632	1540	2.27	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.04	*	632	1540	2.35	
13C-PCB-123	9.27e+07	1.58	y	38:19	1.28	9800				98.0
PCB-118	*	*	n	NotFnd	1.10	*	632	1540	2.45	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.10	*	632	1540	2.45	Co-elute PCB 118
13C-PCB-118	9.92e+07	1.57	y	38:30	1.39	9610				96.1
PCB-114	*	*	n	NotFnd	1.23	*	632	1540	2.10	
13C-PCB-114	9.40e+07	1.58	y	39:06	1.31	9680				96.8
PCB-122	*	*	n	NotFnd	1.12	*	632	1540	2.32	
PCB-105	*	*	n	NotFnd	1.19	*	632	1540	2.21	
13C-PCB-105	9.23e+07	1.58	y	39:56	1.32	9410				94.1

PCB-127	*	*	n	NotFnd	1.09	*	632	1540	2.39	
PCB-126	*	*	n	NotFnd	1.12	*	632	1540	2.81	
13C-PCB-126	8.50e+07	1.59	y	42:02	1.25	9170				91.7
PCB-151	*	*	n	NotFnd	0.91	*	912	624	2.34	
PCB-135	*	*	n	NotFnd	0.86	*	912	624	2.49	
PCB-144	*	*	n	NotFnd	1.09	*	912	624	1.95	
PCB-147	*	*	n	NotFnd	1.01	*	912	624	2.11	
PCB-139	*	*	n	NotFnd	1.04	*	912	624	2.05	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	1.04	*	912	624	2.05	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	1.03	*	912	624	2.06	
PCB-143	*	*	n	NotFnd	0.84	*	912	624	2.54	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.84	*	912	624	2.54	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.85	*	912	624	2.51	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.85	*	912	624	2.51	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.85	*	912	624	2.51	
PCB-165	*	*	n	NotFnd	1.12	*	912	624	1.90	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.12	*	912	624	1.90	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	1.04	*	912	624	2.05	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	1.04	*	912	624	2.05	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	1.16	*	912	624	1.83	
PCB-168	*	*	n	NotFnd	1.25	*	912	624	1.71	
PCB-141	*	*	n	NotFnd	0.94	*	912	624	2.27	
PCB-137	*	*	n	NotFnd	0.86	*	912	624	2.48	
PCB-130	*	*	n	NotFnd	0.90	*	912	624	2.38	
PCB-138	*	*	n	NotFnd	1.13	*	912	624	1.89	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.13	*	912	624	1.89	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.13	*	912	624	1.89	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.25	*	912	624	1.71	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.25	*	912	624	1.71	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.81	*	912	624	2.64	
PCB-166	*	*	n	NotFnd	1.18	*	912	624	1.80	
PCB-159	*	*	n	NotFnd	1.27	*	912	624	1.68	
PCB-128	*	*	n	NotFnd	1.05	*	912	624	2.04	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	1.05	*	912	624	2.04	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.15	*	912	624	1.87	
13C-PCB-167	8.06e+07	1.29	y	43:25	1.14	9550				95.5
PCB-156	*	*	n	NotFnd	1.21	*	912	624	1.95	
13C-PCB-156	7.73e+07	1.29	y	44:39	1.12	9290				92.9
PCB-157	*	*	n	NotFnd	1.17	*	912	624	1.87	
13C-PCB-157	7.93e+07	1.31	y	44:54	1.15	9280				92.8
PCB-169	*	*	n	NotFnd	1.10	*	912	624	1.68	
13C-PCB-169	7.53e+07	1.28	y	46:46	1.07	9460				94.6

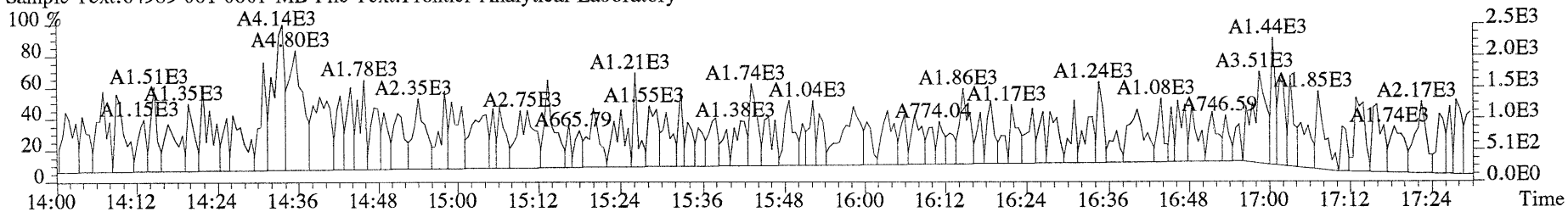
PCB-188	*	*	n	NotFnd	1.05	*	987	940	2.38	
13C-PCB-188	8.34e+07	1.06	y	39:41	1.18	9560				95.6
PCB-184	*	*	n	NotFnd	1.20	*	987	940	2.09	
PCB-179	*	*	n	NotFnd	1.13	*	987	940	2.23	
PCB-176	*	*	n	NotFnd	1.10	*	987	940	2.29	
PCB-186	*	*	n	NotFnd	1.11	*	987	940	2.27	
PCB-178	*	*	n	NotFnd	0.76	*	987	940	3.32	
PCB-175	*	*	n	NotFnd	0.77	*	987	940	3.28	
PCB-187	*	*	n	NotFnd	0.87	*	987	940	2.88	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.87	*	987	940	2.88	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.86	*	987	940	2.93	
PCB-185	*	*	n	NotFnd	0.77	*	987	940	3.25	
PCB-174	*	*	n	NotFnd	0.79	*	987	940	3.19	
PCB-181	*	*	n	NotFnd	0.78	*	987	940	3.22	
PCB-177	*	*	n	NotFnd	0.70	*	987	940	3.58	
PCB-171	*	*	n	NotFnd	0.77	*	987	940	3.27	
PCB-173	*	*	n	NotFnd	0.68	*	987	940	3.67	
PCB-172	*	*	n	NotFnd	0.72	*	987	940	3.51	
PCB-192	*	*	n	NotFnd	0.97	*	987	940	2.60	
PCB-180	*	*	n	NotFnd	0.75	*	987	940	3.36	
PCB-193	*	*	n	NotFnd	1.05	*	987	940	2.39	
PCB-191	*	*	n	NotFnd	0.99	*	987	940	2.53	
PCB-170	*	*	n	NotFnd	0.71	*	987	940	3.52	
PCB-190	*	*	n	NotFnd	0.96	*	987	940	2.62	
PCB-189	*	*	n	NotFnd	1.00	*	987	940	2.55	
13C-PCB-189	7.04e+07	1.07	y	48:26	1.01	9420				94.2
PCB-202	*	*	n	NotFnd	1.02	*	654	640	2.18	
PCB-201	*	*	n	NotFnd	1.10	*	654	640	2.01	
PCB-204	*	*	n	NotFnd	1.11	*	654	640	1.99	
PCB-197	*	*	n	NotFnd	1.15	*	654	640	1.93	
PCB-200	*	*	n	NotFnd	1.11	*	654	640	1.99	
PCB-198	*	*	n	NotFnd	0.78	*	654	640	2.85	
PCB-199	*	*	n	NotFnd	0.74	*	654	640	2.98	
PCB-203	*	*	n	NotFnd	0.83	*	654	640	2.66	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.83	*	654	640	2.66	Co-elute PCB 203
13C-PCB-202	6.59e+07	0.91	y	44:49	0.95	9390				93.9
13C-PCB-178	5.30e+07	1.07	y	42:19	0.80	8960				89.6
13C-PCB-138	7.41e+07	1.26	y	41:33	-	99.7				
PCB-195	*	*	n	NotFnd	0.78	*	940	1200	2.16	
PCB-194	*	*	n	NotFnd	0.86	*	940	1200	1.97	
PCB-205	*	*	n	NotFnd	1.09	*	940	1200	1.55	
13C-PCB-205	8.70e+07	0.91	y	50:05	1.29	10300				103
PCB-208	*	*	n	NotFnd	1.05	*	789	786	1.33	
13C-PCB-208	7.89e+07	0.81	y	49:09	1.15	10400				104
PCB-207	*	*	n	NotFnd	1.23	*	789	786	1.31	
PCB-206	*	*	n	NotFnd	1.08	*	789	786	1.76	
13C-PCB-206	6.09e+07	0.82	y	51:17	0.88	10500				105
PCB-209	*	*	n	NotFnd	1.13	*	816	788	1.59	
13C-PCB-209	7.47e+07	1.19	y	52:28	1.08	10500				105
13C-PCB-194	6.57e+07	0.93	y	49:50	-	91.5				

Analyst: _____ Date: 8/1/19

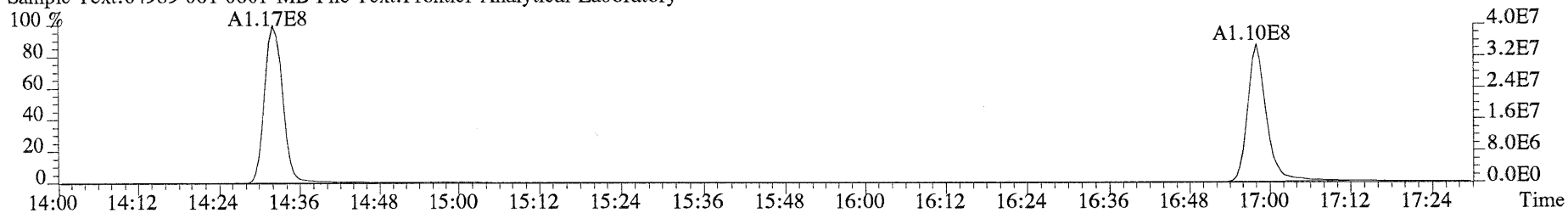
File:31JUL19Z #1-784 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



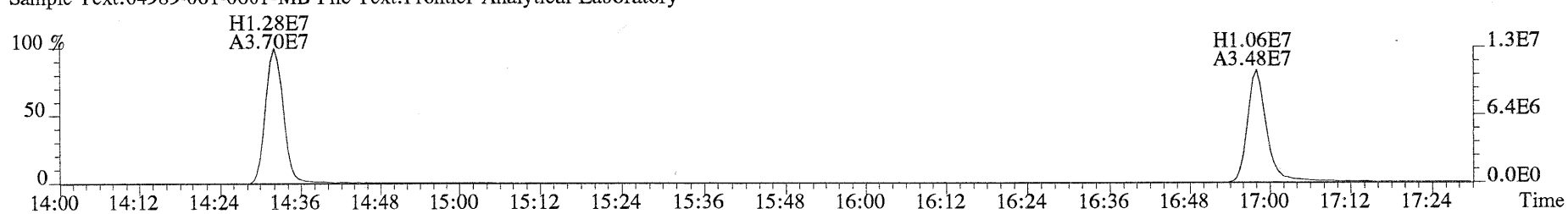
File:31JUL19Z #1-784 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



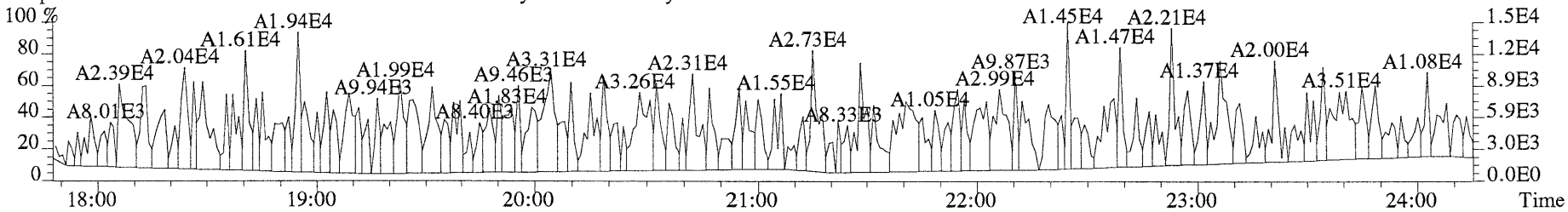
File:31JUL19Z #1-784 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



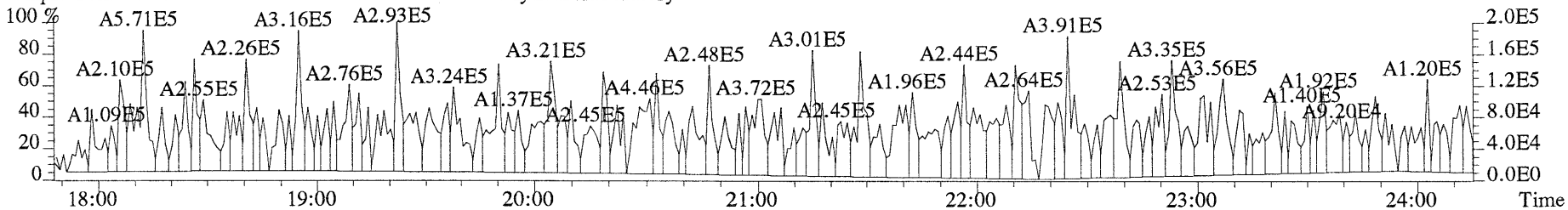
File:31JUL19Z #1-784 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



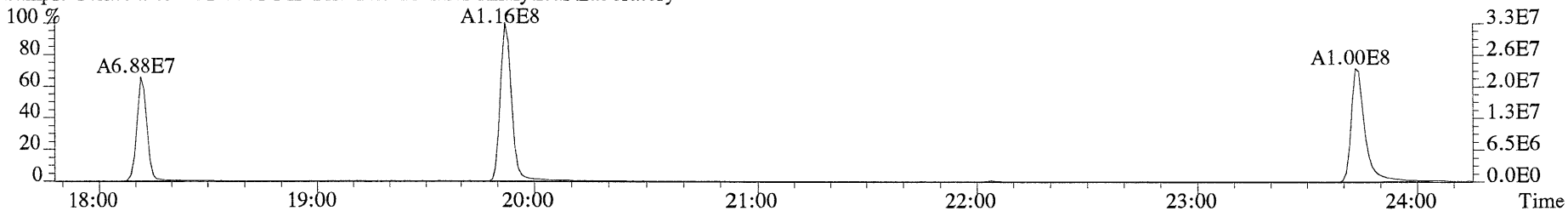
File:31JUL19Z #1-520 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



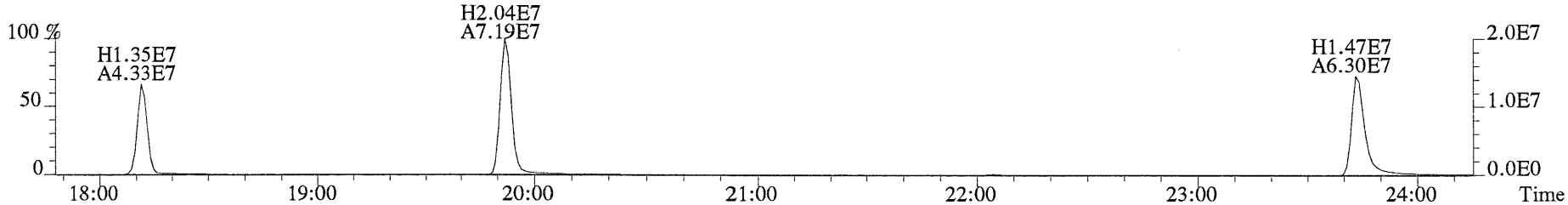
File:31JUL19Z #1-520 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



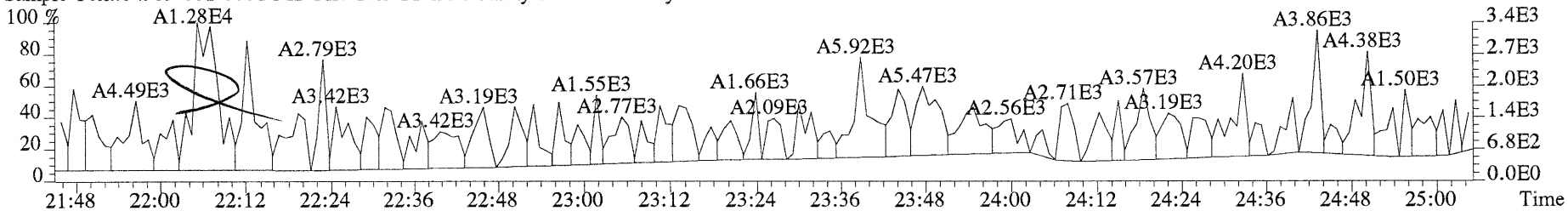
File:31JUL19Z #1-520 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



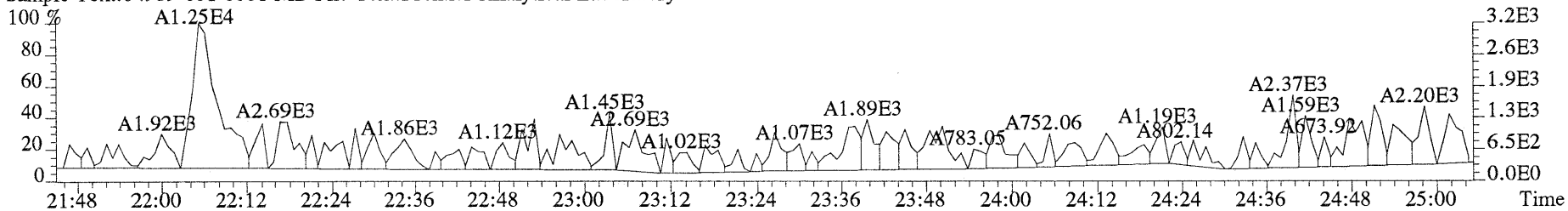
File:31JUL19Z #1-520 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



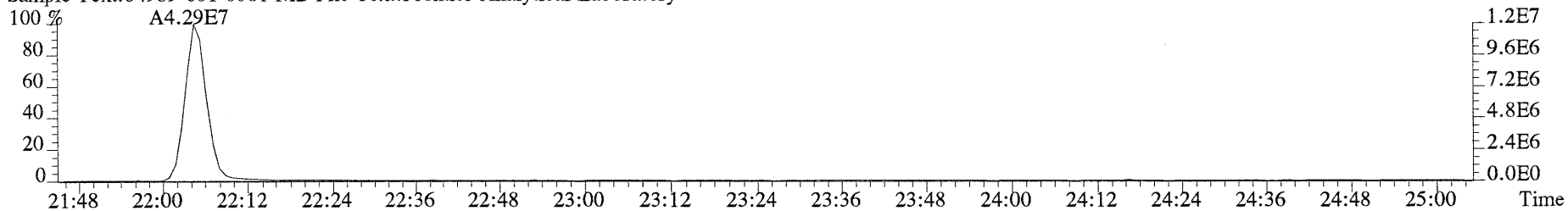
File:31JUL19Z #1-520 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



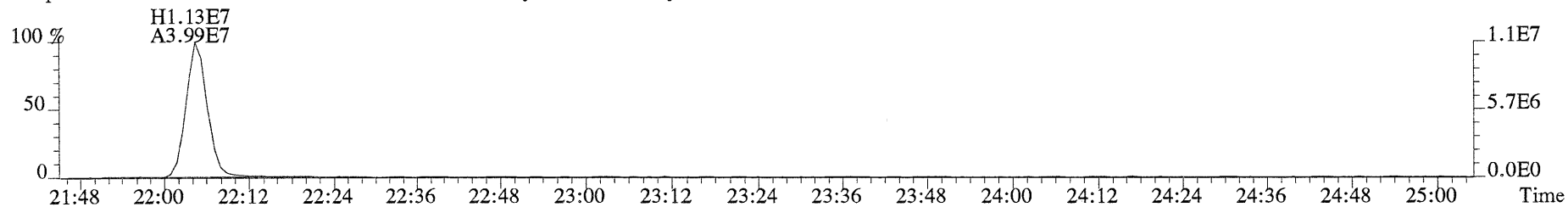
File:31JUL19Z #1-520 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



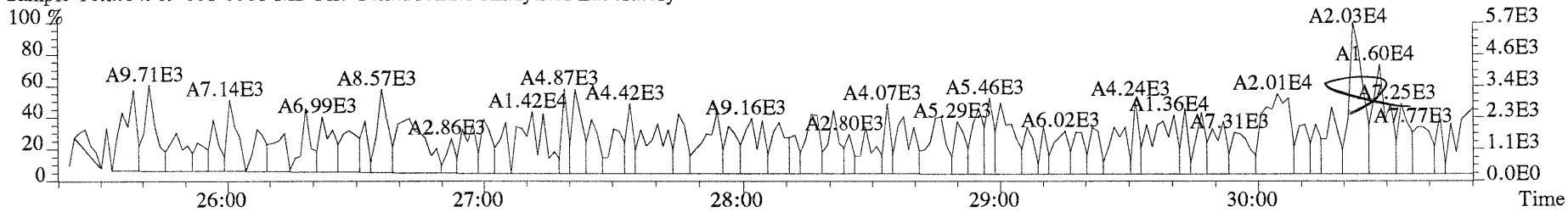
File:31JUL19Z #1-520 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



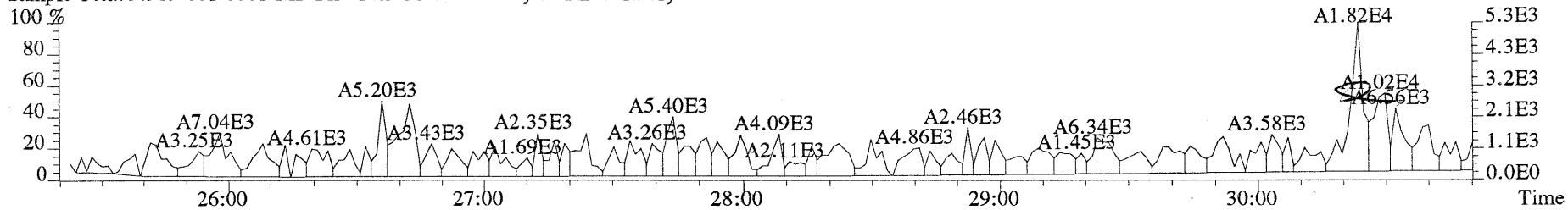
File:31JUL19Z #1-520 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-401 Acq:31-JUL-2019 15:20:08 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:04989-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-401 Acq:31-JUL-2019 15:20:08 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:04989-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-401 Acq:31-JUL-2019 15:20:08 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
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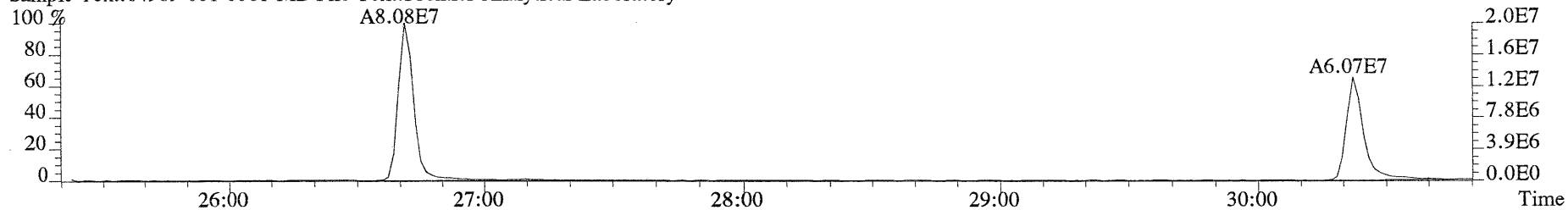
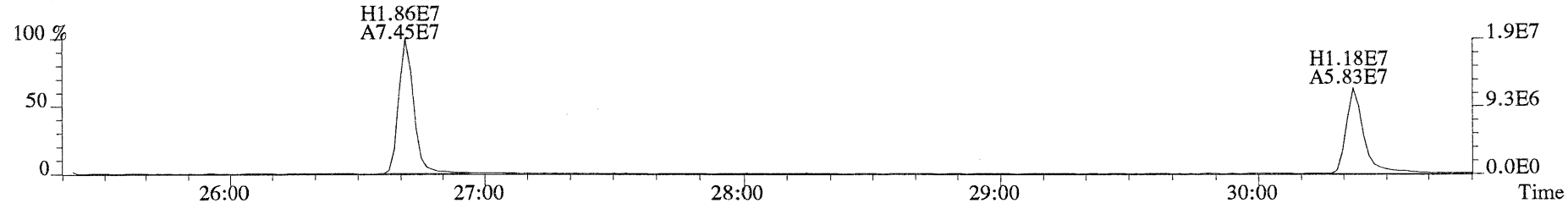
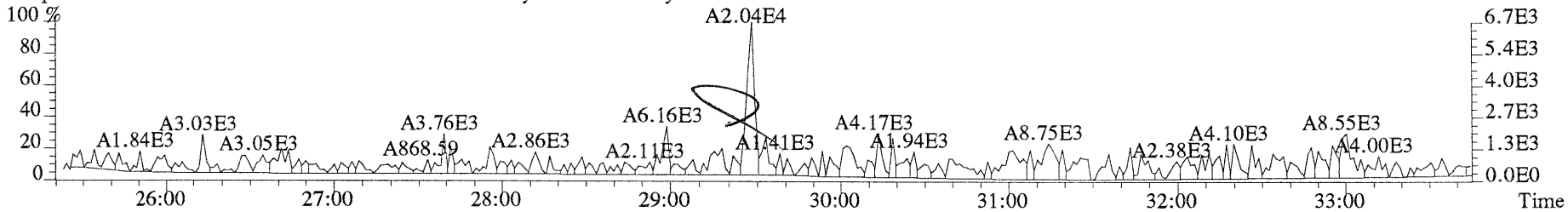


File:31JUL19Z #1-401 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-401 Acq:31-JUL-2019 15:20:08 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:04989-001-0001-MB File Text:Frontier Analytical Laboratory



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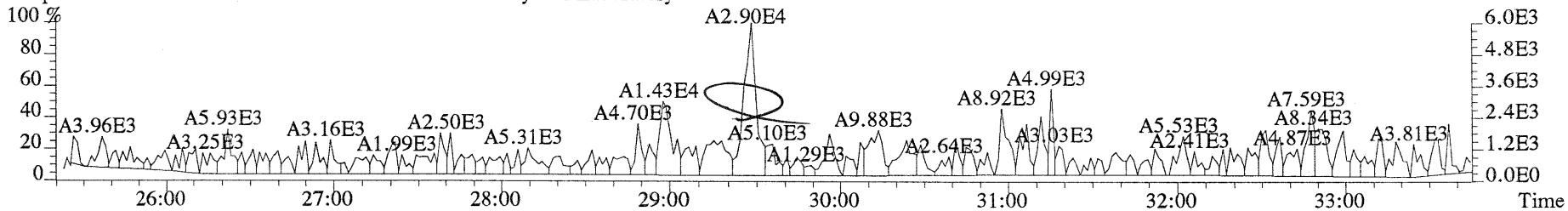
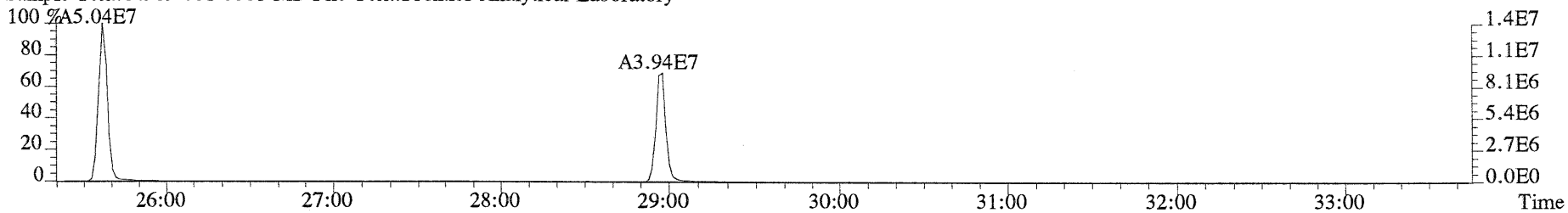
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-401 Acq:31-JUL-2019 15:20:08 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:04989-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-401 Acq:31-JUL-2019 15:20:08 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
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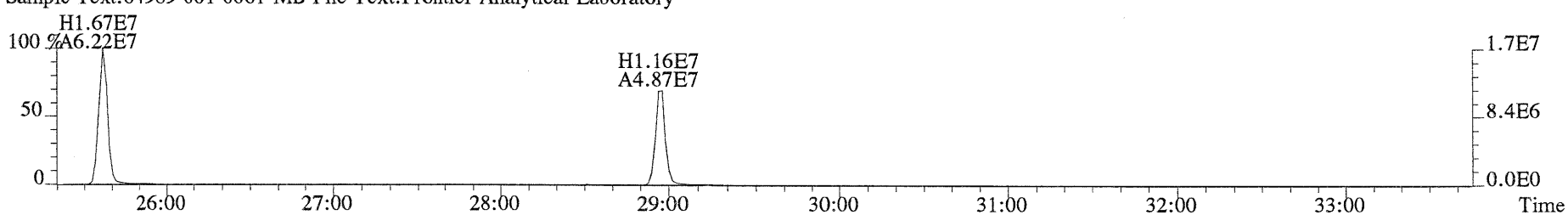

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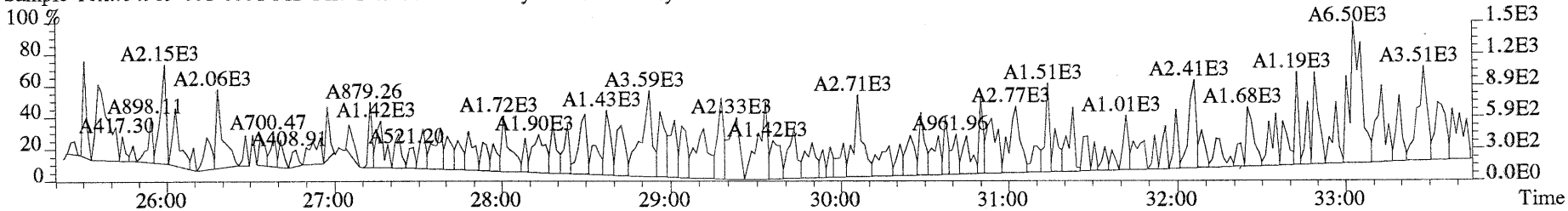
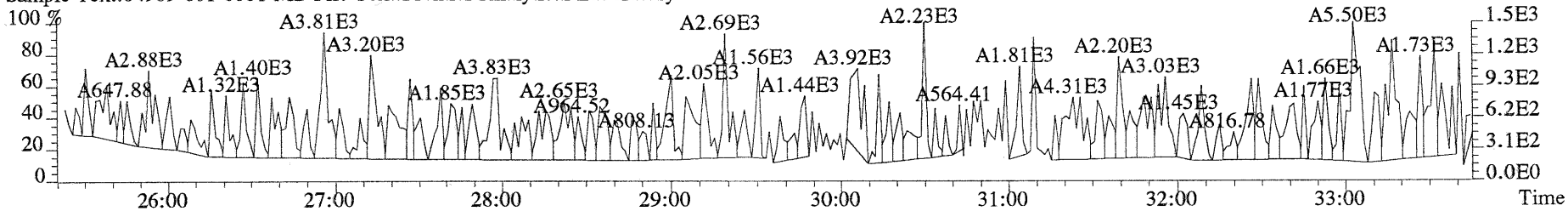
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-401 Acq:31-JUL-2019 15:20:08 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:04989-001-0001-MB File Text:Frontier Analytical Laboratory



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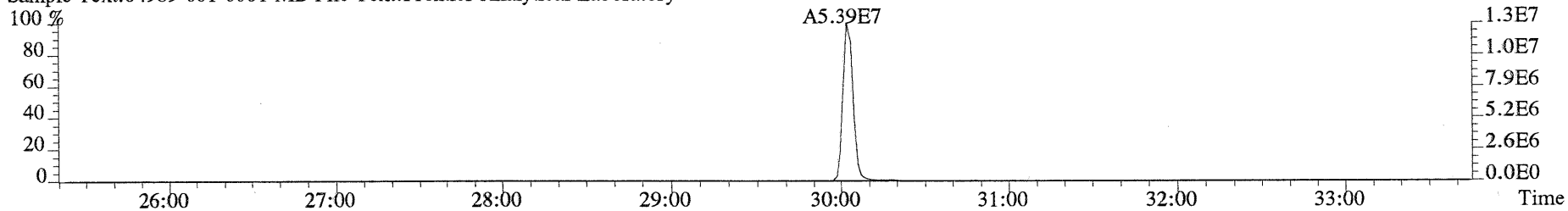
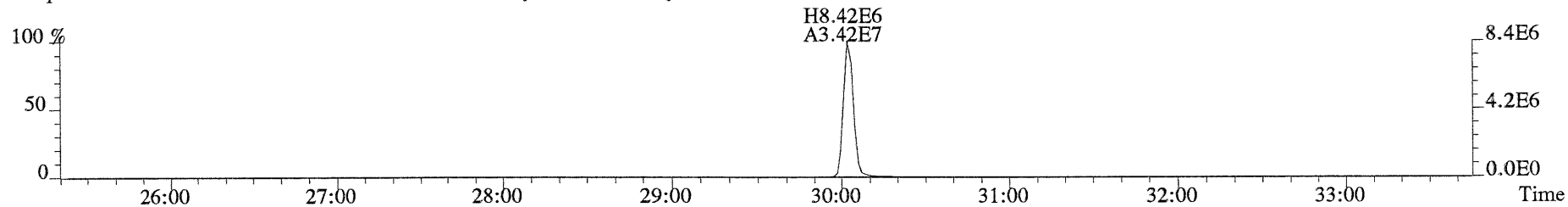
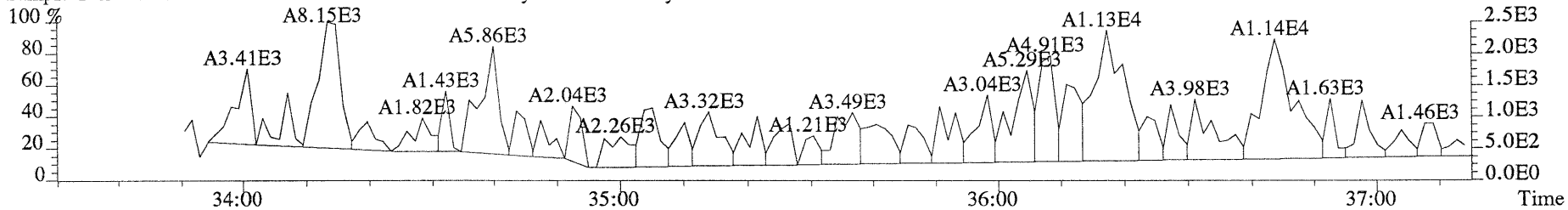
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



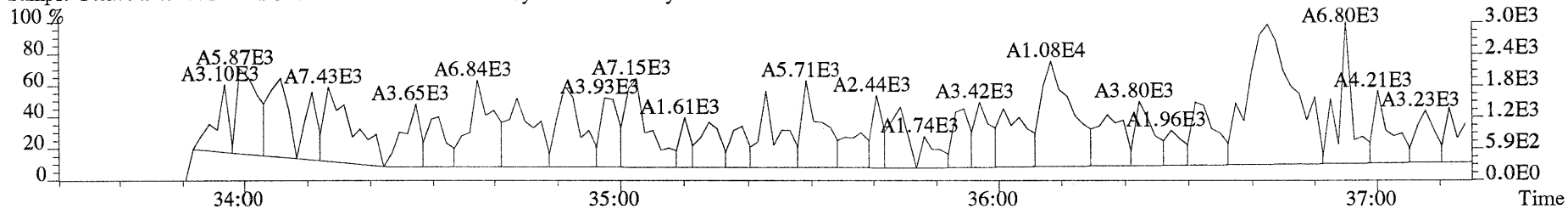
File:31JUL19Z #1-401 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



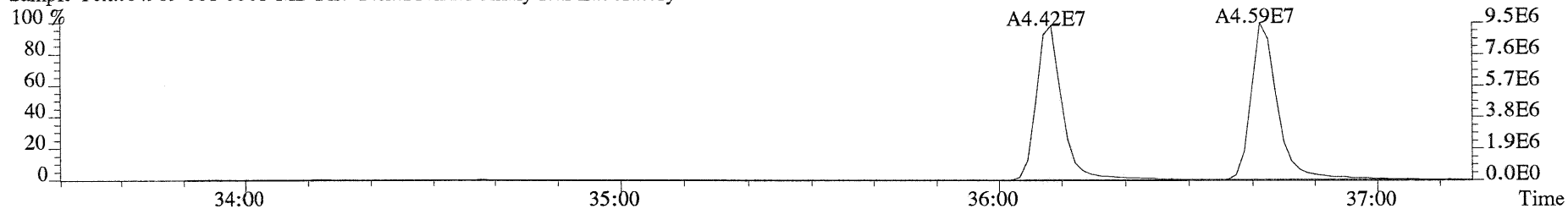
File:31JUL19Z #1-181 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



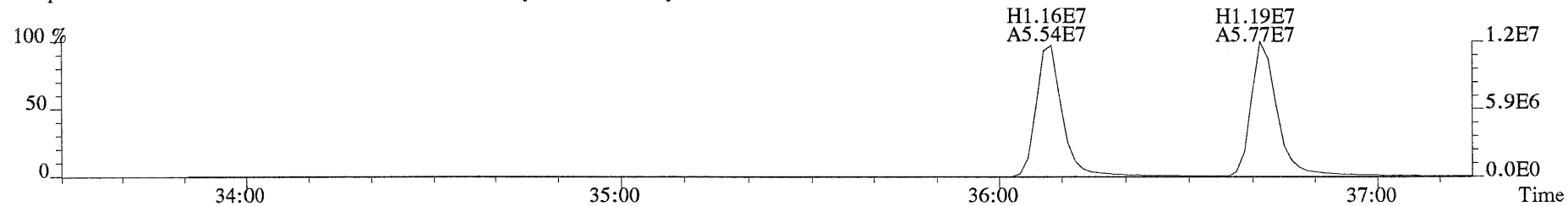
File:31JUL19Z #1-181 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



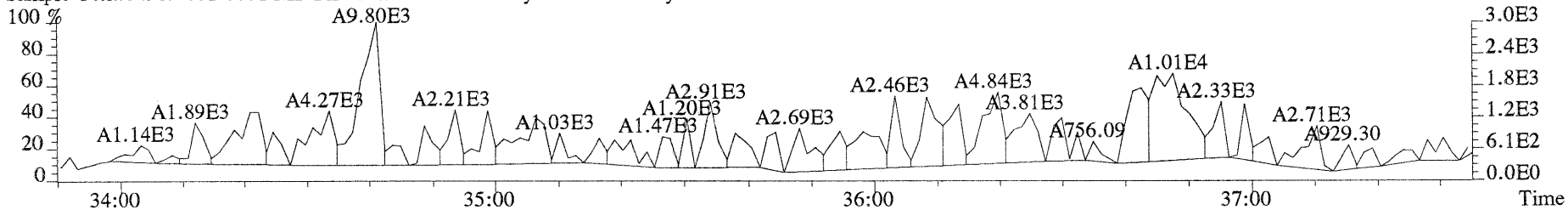
File:31JUL19Z #1-181 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



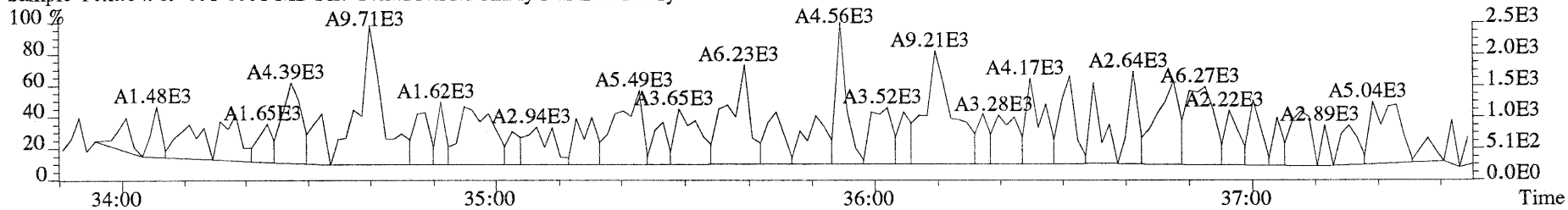
File:31JUL19Z #1-181 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



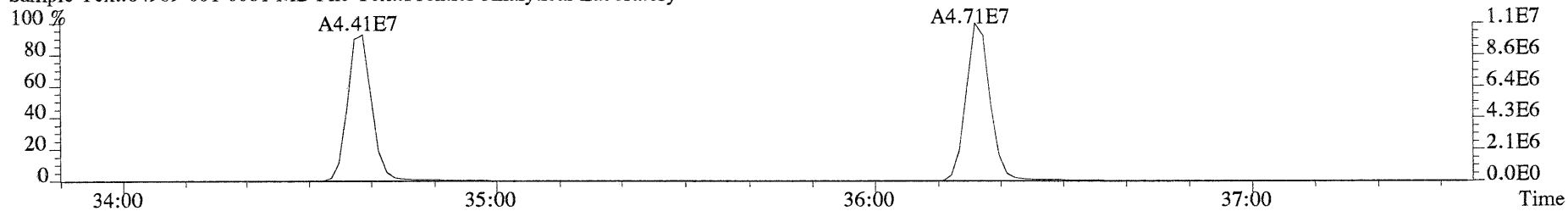
File:31JUL19Z #1-181 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



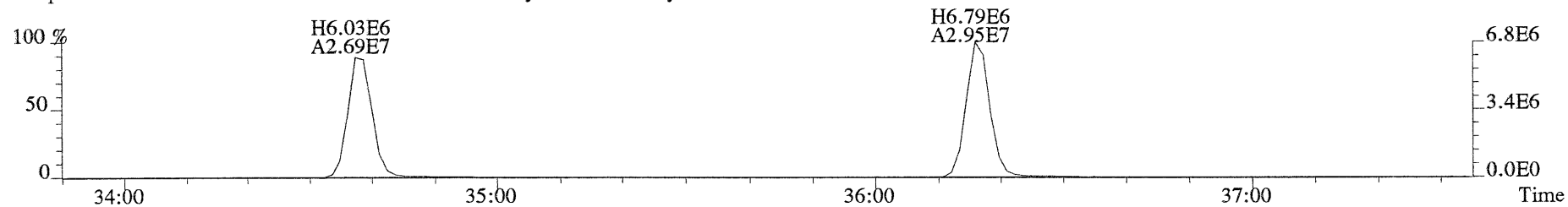
File:31JUL19Z #1-181 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



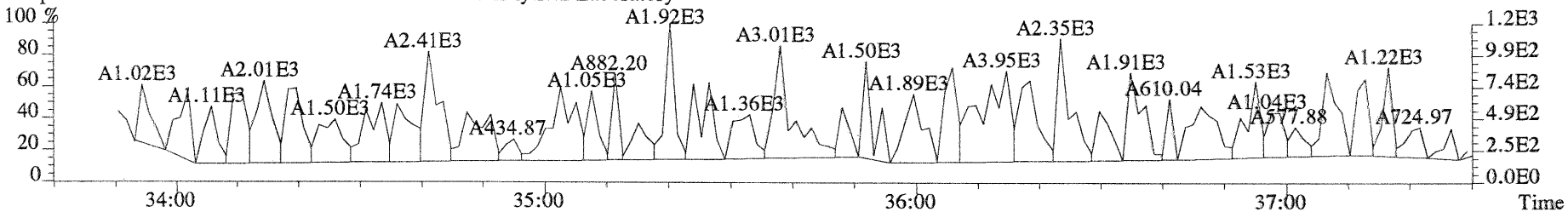
File:31JUL19Z #1-181 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



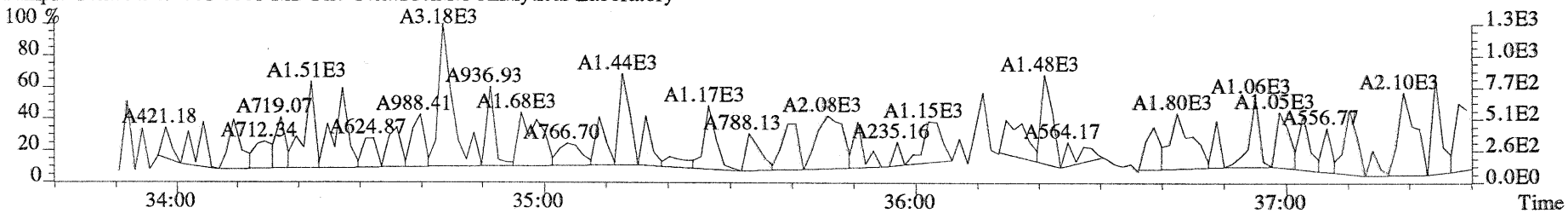
File:31JUL19Z #1-181 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



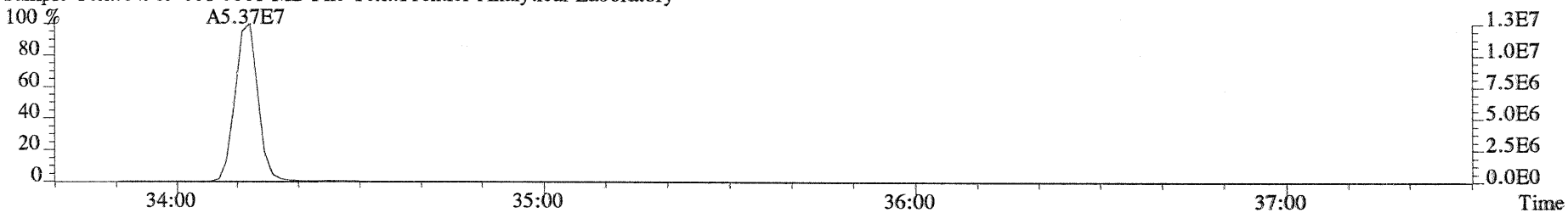
File:31JUL19Z #1-181 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



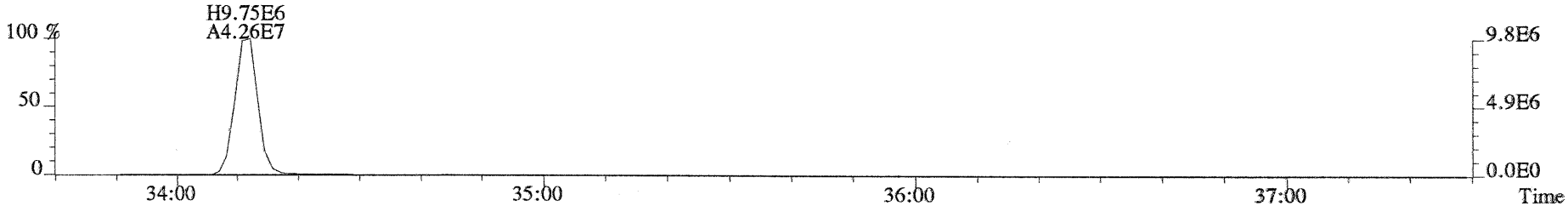
File:31JUL19Z #1-181 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



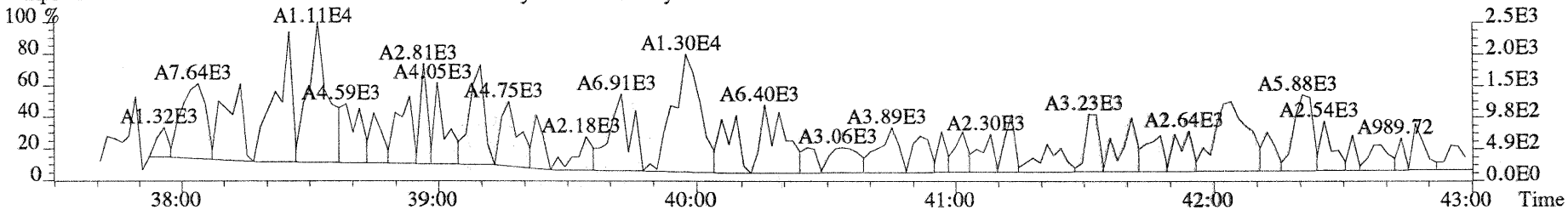
File:31JUL19Z #1-181 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



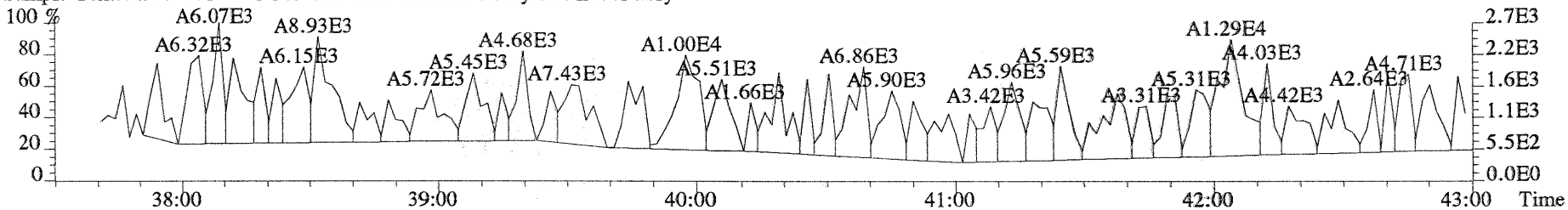
File:31JUL19Z #1-181 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-405 Acq:31-JUL-2019 15:20:08 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:04989-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-405 Acq:31-JUL-2019 15:20:08 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:04989-001-0001-MB File Text:Frontier Analytical Laboratory



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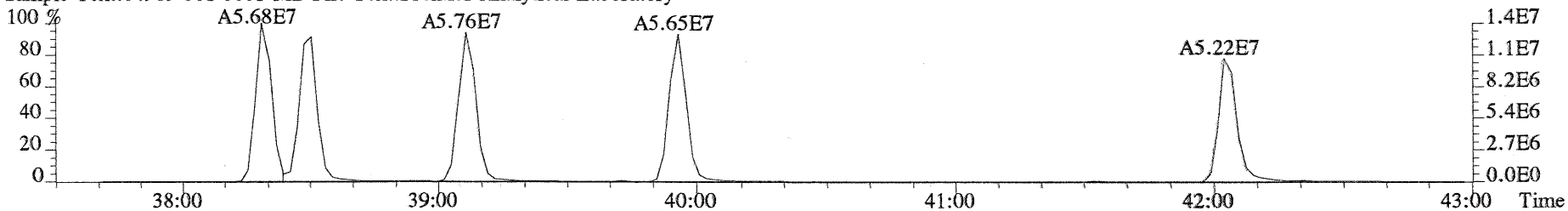
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



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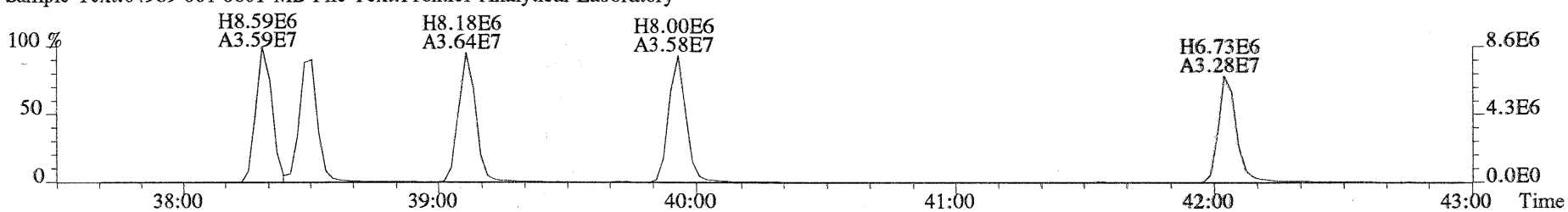
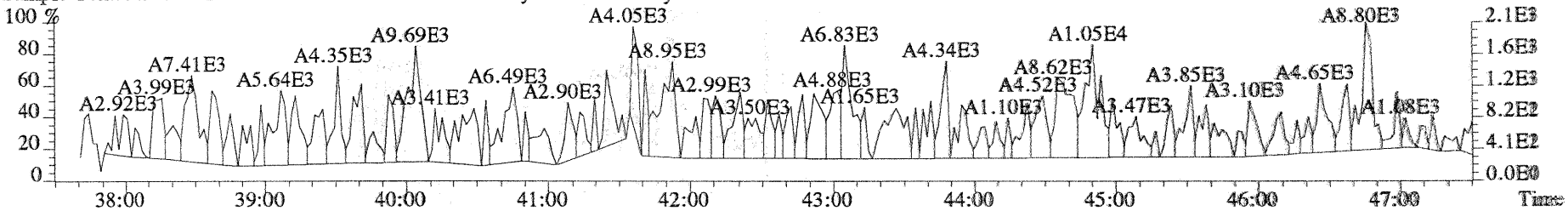
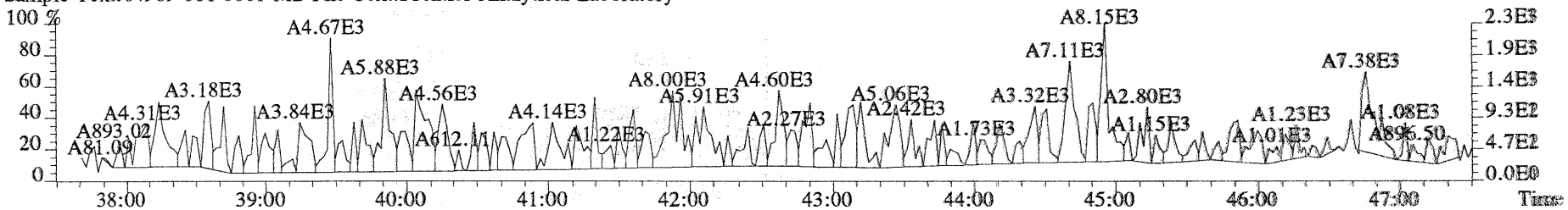
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



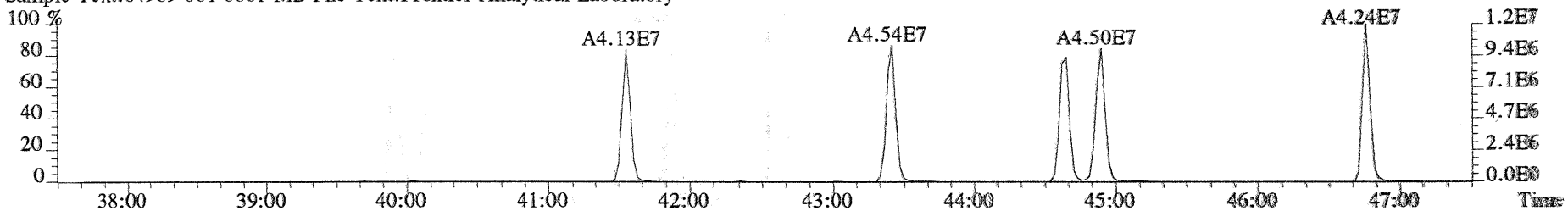
File:31JUL19Z #1-405 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-405 Acq:31-JUL-2019 15:20:08 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:04989-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-405 Acq:31-JUL-2019 15:20:08 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:04989-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-405 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
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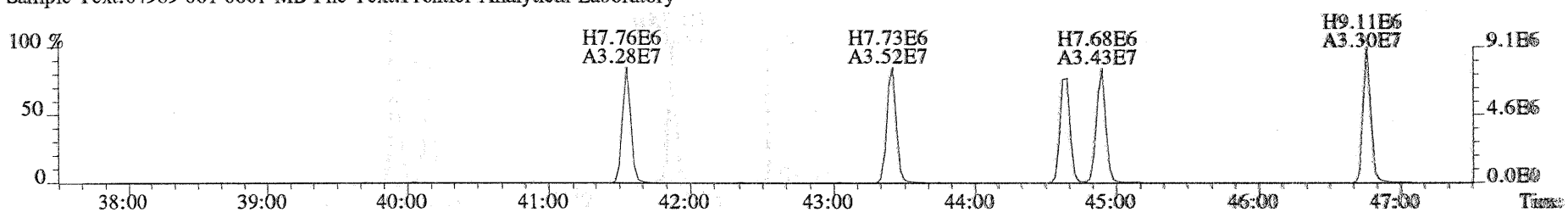
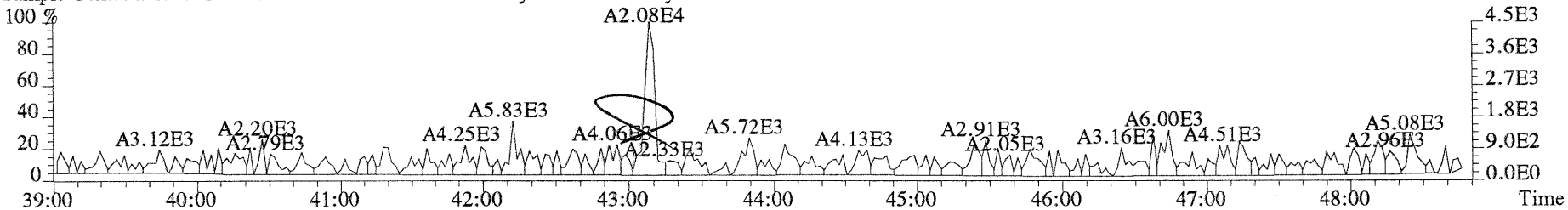
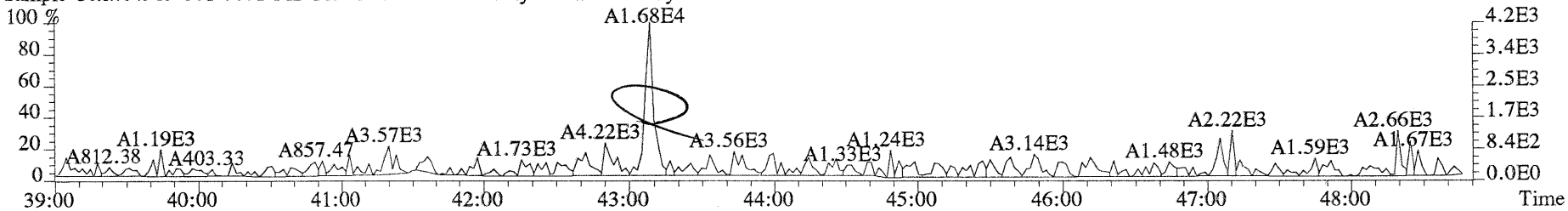
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



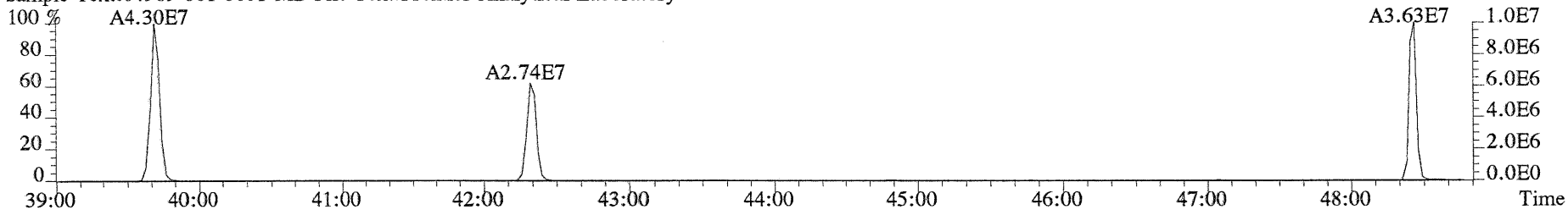
File:31JUL19Z #1-405 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



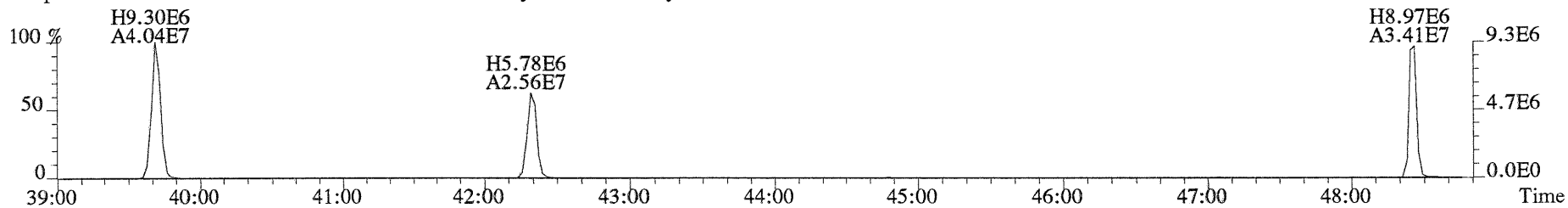
File:31JUL19Z #1-405 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



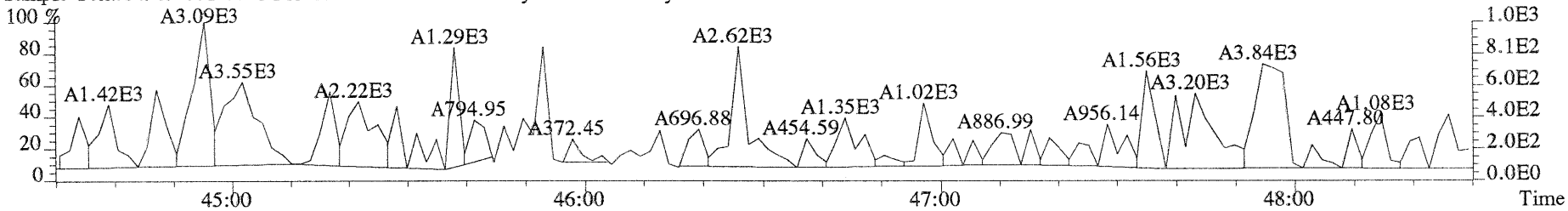
File:31JUL19Z #1-405 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



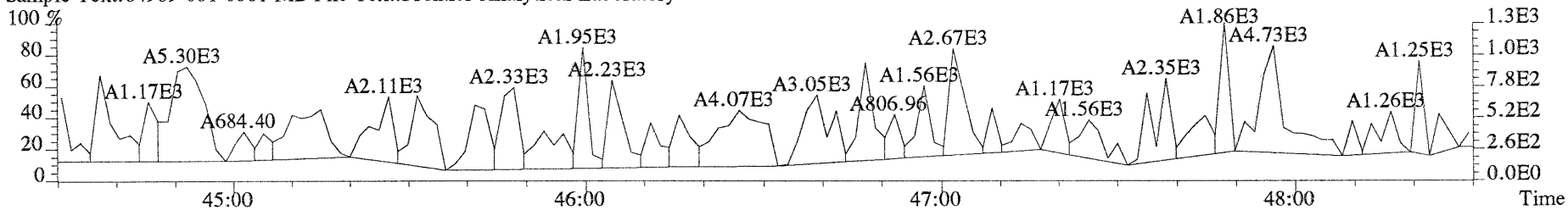
File:31JUL19Z #1-405 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



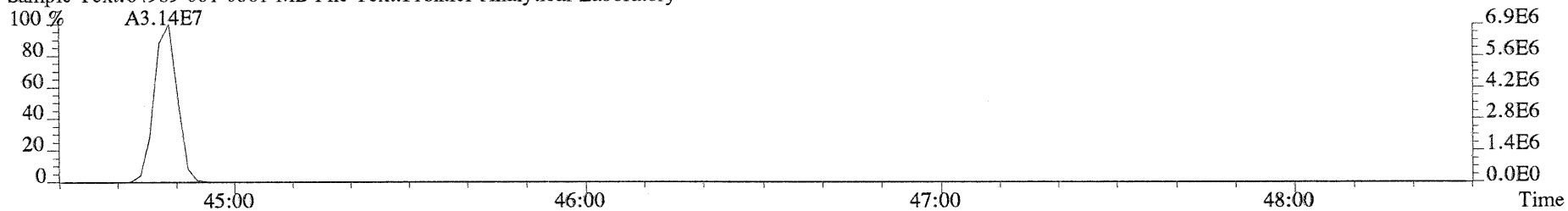
File:31JUL19Z #1-405 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



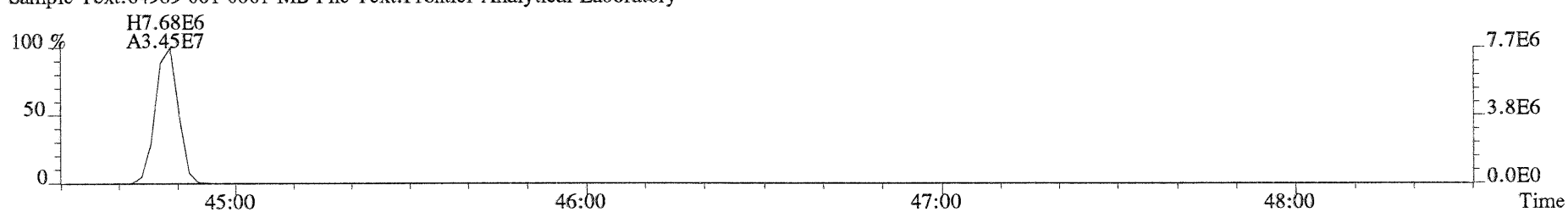
File:31JUL19Z #1-405 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



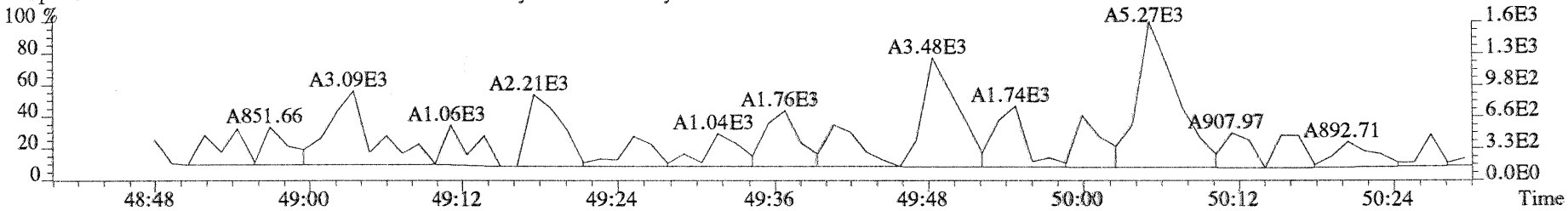
File:31JUL19Z #1-405 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



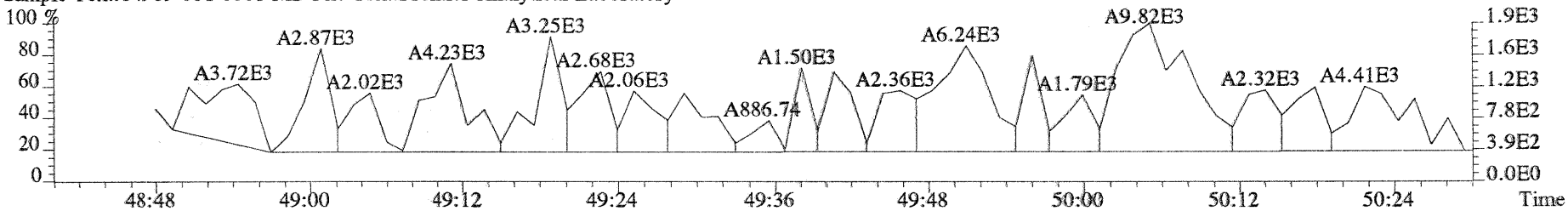
File:31JUL19Z #1-405 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



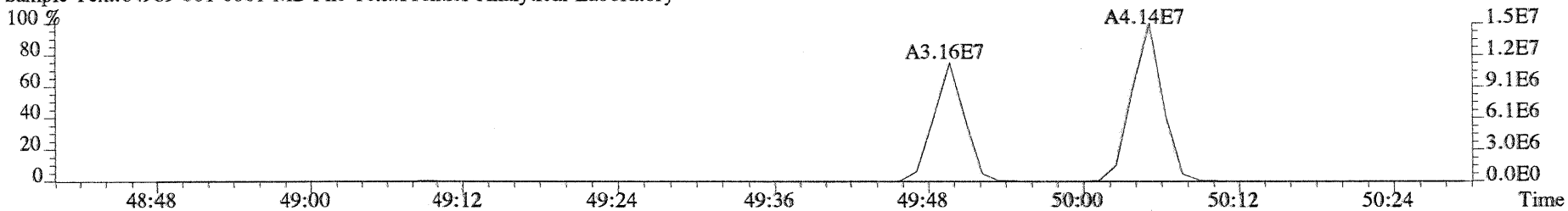
File:31JUL19Z #1-315 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



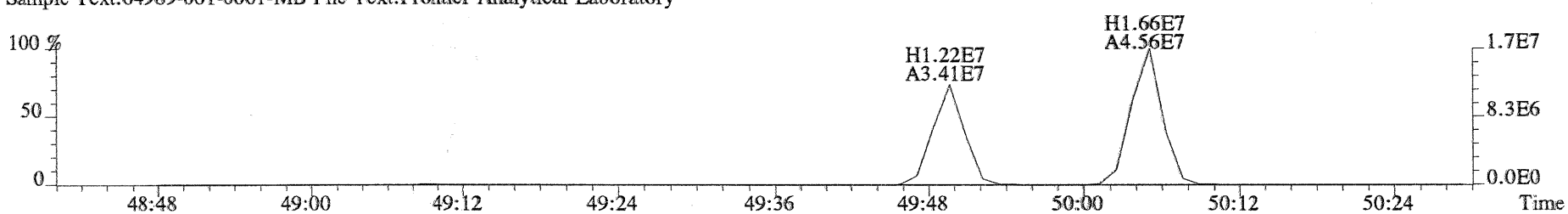
File:31JUL19Z #1-315 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



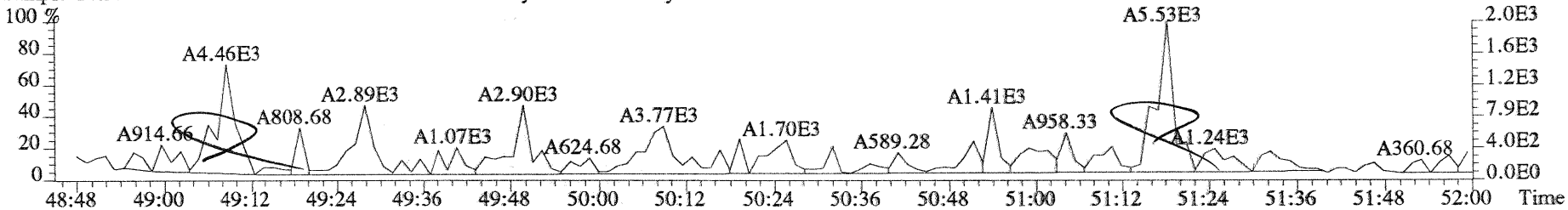
File:31JUL19Z #1-315 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



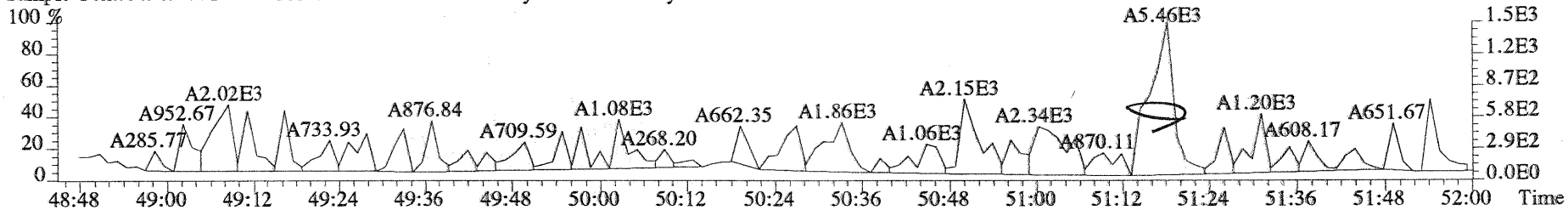
File:31JUL19Z #1-315 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



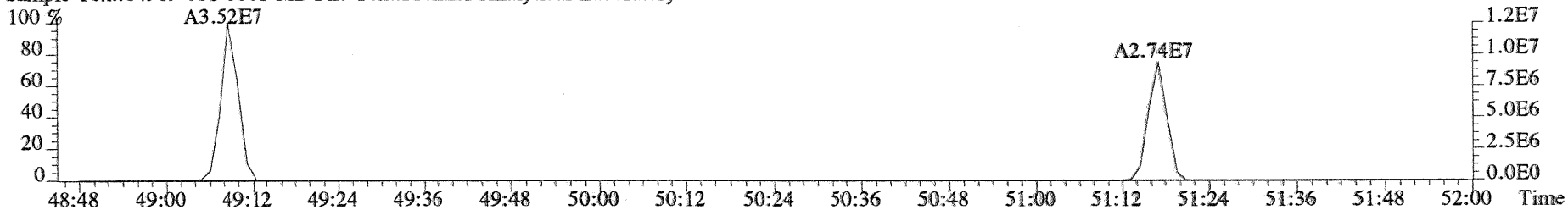
File:31JUL19Z #1-315 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



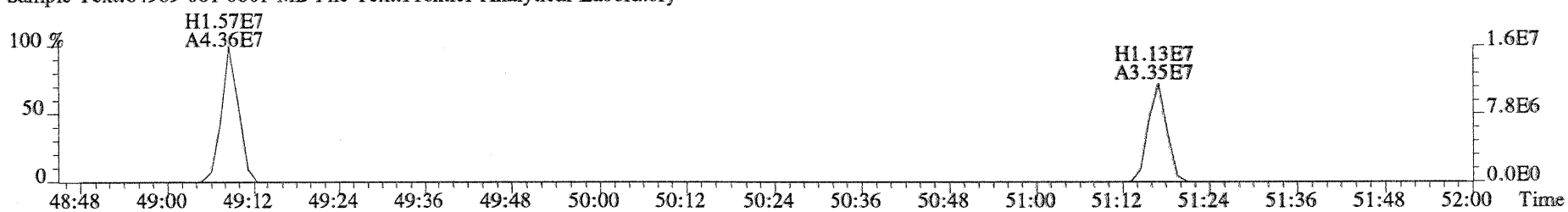
File:31JUL19Z #1-315 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



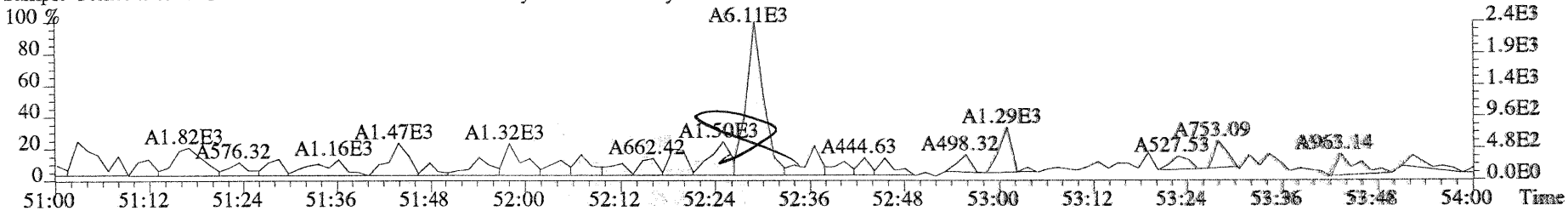
File:31JUL19Z #1-315 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



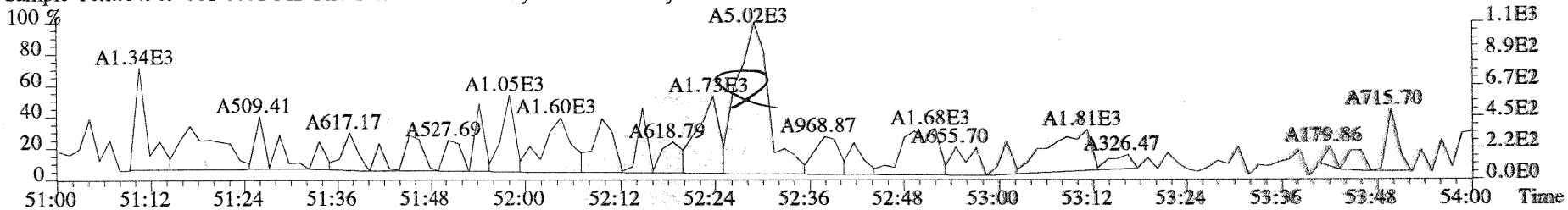
File:31JUL19Z #1-315 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



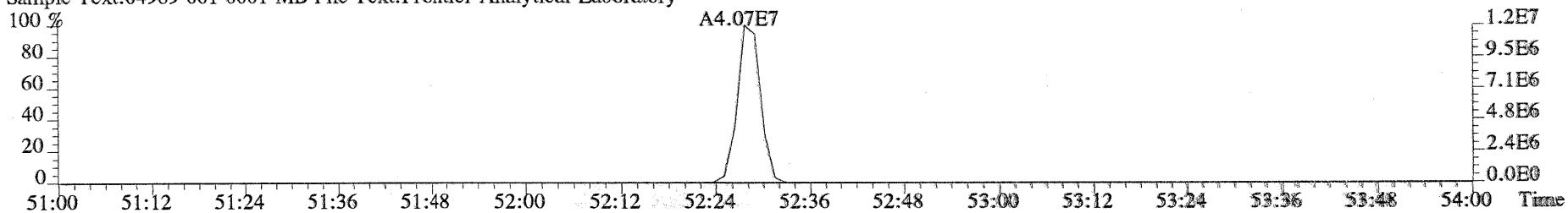
File:31JUL19Z #1-315 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



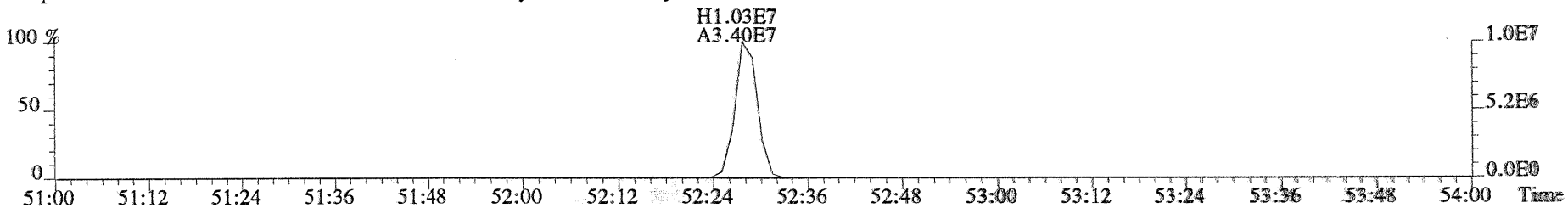
File:31JUL19Z #1-315 Acq:31-JUL-2019 15:20:08 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 15:20:08 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:04989-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 15:20:08 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:04989-001-0001-MB File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

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

Lab Name: Frontier Analytical Laboratory FAL ID: 04989-001-0001-OPR

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 31JUL19Z Sam:3

Ext. Date: 7/31/19 Shift: Day Analysis Date: 31-JUL-19 14:21:47

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	51.6	30.0 - 67.5
PCB-3	50	51.7	30.0 - 67.5
PCB-4	50	48.3	30.0 - 67.5
PCB-15	50	48.9	30.0 - 67.5
PCB-19	50	51.3	30.0 - 67.5
PCB-37	50	48.5	30.0 - 67.5
PCB-54	50	52.6	30.0 - 67.5
PCB-77	50	51.6	30.0 - 67.5
PCB-81	50	46.9	30.0 - 67.5
PCB-104	50	52.1	30.0 - 67.5
PCB-105	50	46.0	30.0 - 67.5
PCB-114	50	44.7	30.0 - 67.5
PCB-118	50	51.0	30.0 - 67.5
PCB-123	50	53.4	30.0 - 67.5
PCB-126	50	49.5	30.0 - 67.5
PCB-155	50	50.4	30.0 - 67.5
PCB-156	50	47.6	30.0 - 67.5
PCB-157	50	49.0	30.0 - 67.5
PCB-167	50	49.7	30.0 - 67.5
PCB-169	50	53.5	30.0 - 67.5
PCB-188	50	51.8	30.0 - 67.5
PCB-189	50	52.8	30.0 - 67.5
PCB-202	50	53.4	30.0 - 67.5
PCB-205	50	52.5	30.0 - 67.5
PCB-206	50	51.2	30.0 - 67.5
PCB-208	50	52.7	30.0 - 67.5
PCB-209	50	51.1	30.0 - 67.5

Analyst: _____ Date: 8/1/19

Frontier Analytical Laboratory

FORM 8B

209 PCB ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory FAL ID: 04989-001-0001-OPR

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 31JUL19Z Sam:3

Ext. Date: 7/31/19 Shift: Day Analysis Date: 31-JUL-19 14:21:47

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	82.8	15.0 - 145
13C-PCB-3	100	82.3	15.0 - 145
13C-PCB-4	100	85.9	15.0 - 145
13C-PCB-15	100	88.5	15.0 - 145
13C-PCB-19	100	81.7	15.0 - 145
13C-PCB-37	100	86.9	15.0 - 145
13C-PCB-54	100	86.5	15.0 - 145
13C-PCB-77	100	82.3	40.0 - 145
13C-PCB-81	100	84.2	40.0 - 145
13C-PCB-104	100	86.9	40.0 - 145
13C-PCB-105	100	88.1	40.0 - 145
13C-PCB-114	100	89.0	40.0 - 145
13C-PCB-118	100	89.2	40.0 - 145
13C-PCB-123	100	90.5	40.0 - 145
13C-PCB-126	100	82.3	40.0 - 145
13C-PCB-155	100	87.8	40.0 - 145
13C-PCB-156	100	85.8	40.0 - 145
13C-PCB-157	100	85.4	40.0 - 145
13C-PCB-167	100	87.7	40.0 - 145
13C-PCB-169	100	81.9	40.0 - 145
13C-PCB-188	100	91.9	40.0 - 145
13C-PCB-189	100	85.9	40.0 - 145
13C-PCB-202	100	92.1	40.0 - 145
13C-PCB-205	100	87.5	40.0 - 145
13C-PCB-206	100	91.7	40.0 - 145
13C-PCB-208	100	90.5	40.0 - 145
13C-PCB-209	100	92.2	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	92.8	15.0 - 145
13C-PCB-111	100	82.4	40.0 - 145
13C-PCB-178	100	85.8	40.0 - 145

Analyst: _____ Date: 8/1/19

FAL ID: 04989-001-0001-OPR Filename: 31JUL19Z Sam:3 Acquired: 31-JUL-19 14:21:47 ICal: DAILY209FAL4-7-31-19 1 of 2
Client ID: OPR ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

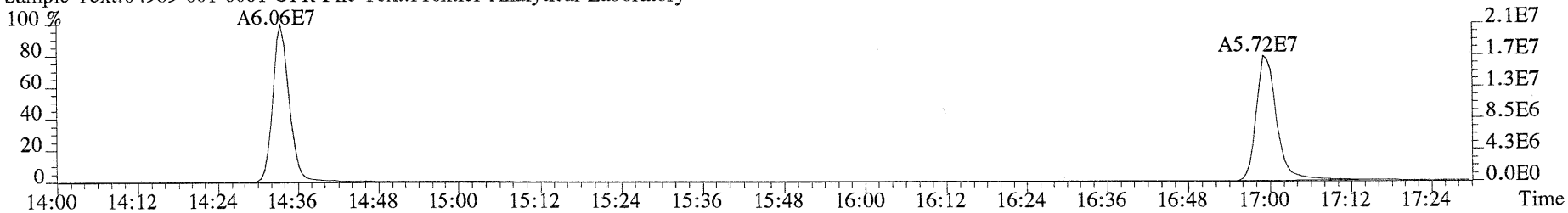
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	7.91e+07	3.27 y	14:33	1.20	51.6		2.50	-	-	*	
13C-PCB-1	1.27e+08	3.17 y	14:32	0.94	82.8		2.50				82.8
PCB-3	7.52e+07	3.16 y	16:59	1.22	51.7		2.50	-	-	*	
13C-PCB-3	1.19e+08	3.19 y	16:58	0.88	82.3		2.50				82.3
PCB-4	5.30e+07	1.54 y	18:13	1.16	48.3		2.50	-	-	*	
13C-PCB-4	9.48e+07	1.61 y	18:12	0.67	85.9		2.50				85.9
PCB-15	7.51e+07	1.59 y	23:45	1.16	48.9		2.50	-	-	*	
13C-PCB-15	1.33e+08	1.56 y	23:44	0.91	88.5		2.50				88.5
PCB-19	3.95e+07	1.06 y	22:06	1.16	51.3		2.50	-	-	*	
13C-PCB-19	6.62e+07	1.05 y	22:05	0.49	81.7		2.50				81.7
13C-PCB-9	1.64e+08	1.60 y	19:53	-	97.1		2.50				
PCB-37	5.98e+07	1.04 y	30:23	1.21	48.5		2.50	-	-	*	
13C-PCB-37	1.02e+08	1.07 y	30:22	1.51	86.9		2.50				86.9
PCB-54	5.89e+07	0.80 y	25:39	1.24	52.6		2.50	-	-	*	
13C-PCB-54	9.02e+07	0.81 y	25:38	1.34	86.5		2.50				86.5
PCB-104	4.16e+07	1.58 y	30:04	1.09	52.1		2.50	-	-	*	
13C-PCB-104	7.30e+07	1.58 y	30:03	1.08	86.9		2.50				86.9
13C-PCB-28	1.30e+08	1.08 y	26:42	1.80	92.8		2.50				92.8
13C-PCB-52	7.77e+07	0.81 y	28:57	-	95.8		2.50				
PCB-81	4.79e+07	0.79 y	36:09	1.25	46.9		2.50	-	-	*	
13C-PCB-81	8.18e+07	0.81 y	36:08	1.49	84.2		2.50				84.2
PCB-77	4.69e+07	0.80 y	36:44	1.08	51.6		2.50	-	-	*	
13C-PCB-77	8.40e+07	0.82 y	36:42	1.57	82.3		2.50				82.3
PCB-155	4.08e+07	1.27 y	34:13	1.04	50.4		2.50	-	-	*	
13C-PCB-155	7.81e+07	1.28 y	34:12	1.37	87.8		2.50				87.8
13C-PCB-111	6.51e+07	1.61 y	36:17	1.21	82.4		2.50				82.4
13C-PCB-101	6.51e+07	1.61 y	34:38	-	92.4		2.50				
PCB-123	4.17e+07	1.54 y	38:20	1.04	53.4		2.50	-	-	*	
13C-PCB-123	7.50e+07	1.56 y	38:20	1.28	90.5		2.50				90.5
PCB-118	4.54e+07	1.55 y	38:32	1.10	51.0		2.50	-	-	*	
13C-PCB-118	8.06e+07	1.59 y	38:30	1.39	89.2		2.50				89.2
PCB-114	4.17e+07	1.56 y	39:08	1.23	44.7		2.50	-	-	*	
13C-PCB-114	7.57e+07	1.59 y	39:08	1.31	89.0		2.50				89.0
PCB-105	4.14e+07	1.54 y	39:57	1.19	46.0		2.50	-	-	*	
13C-PCB-105	7.56e+07	1.57 y	39:56	1.32	88.1		2.50				88.1
PCB-126	3.70e+07	1.59 y	42:04	1.12	49.5		2.50	-	-	*	
13C-PCB-126	6.68e+07	1.57 y	42:04	1.25	82.3		2.50				82.3
PCB-167	3.69e+07	1.25 y	43:26	1.15	49.7		2.50	-	-	*	
13C-PCB-167	6.48e+07	1.27 y	43:25	1.14	87.7		2.50				87.7
PCB-156	3.60e+07	1.26 y	44:40	1.21	47.6		2.50	-	-	*	
13C-PCB-156	6.25e+07	1.28 y	44:39	1.12	85.8		2.50				85.8
PCB-157	3.65e+07	1.26 y	44:55	1.17	49.0		2.50	-	-	*	
13C-PCB-157	6.38e+07	1.29 y	44:54	1.15	85.4		2.50				85.4
PCB-169	3.36e+07	1.26 y	46:47	1.10	53.5		2.50	-	-	*	
13C-PCB-169	5.71e+07	1.29 y	46:45	1.07	81.9		2.50				81.9
PCB-188	3.82e+07	1.05 y	39:44	1.05	51.8		2.50	-	-	*	
13C-PCB-188	7.02e+07	1.06 y	39:42	1.18	91.9		2.50				91.9
PCB-189	2.96e+07	1.03 y	48:26	1.00	52.8		2.50	-	-	*	
13C-PCB-189	5.62e+07	1.07 y	48:26	1.01	85.9		2.50				85.9
PCB-202	3.07e+07	0.89 y	44:50	1.02	53.4		2.50	-	-	*	
13C-PCB-202	5.66e+07	0.91 y	44:49	0.95	92.1		2.50				92.1
13C-PCB-178	4.44e+07	1.06 y	42:20	0.80	85.8		2.50				85.8
13C-PCB-138	6.49e+07	1.28 y	41:33	-	87.3		2.50				

FAL ID: 04989-001-0001-OPR Filename: 31JUL19Z Sam:3 Acquired: 31-JUL-19 14:21:47 ICal: DAILY209FAL4-7-31-19 2 of 2
Client ID: OPR ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

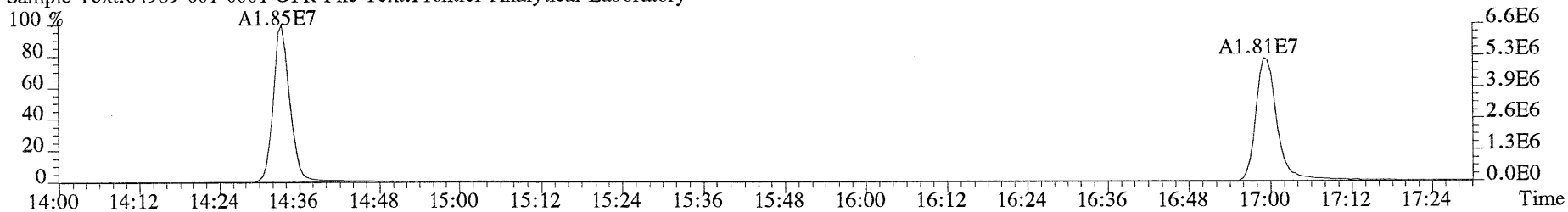
PCB-205	3.89e+07	0.89 y	50:06	1.09	52.5	2.50	-	-	*	
13C-PCB-205	6.82e+07	0.92 y	50:05	1.29	87.5	2.50				87.5
PCB-208	3.50e+07	1.36 y	49:10	1.05	52.7	2.50	-	-	*	
13C-PCB-208	6.31e+07	0.81 y	49:08	1.15	90.5	2.50				90.5
PCB-206	2.70e+07	1.37 y	51:18	1.08	51.2	2.50	-	-	*	
13C-PCB-206	4.87e+07	0.81 y	51:17	0.88	91.7	2.50				91.7
PCB-209	3.48e+07	1.19 y	52:29	1.13	51.1	2.50	-	-	*	
13C-PCB-209	6.02e+07	1.21 y	52:29	1.08	92.2	2.50				92.2
13C-PCB-194	6.04e+07	0.92 y	49:50	-	84.2	2.50				

Analyst: _____ Date: 8/1/19

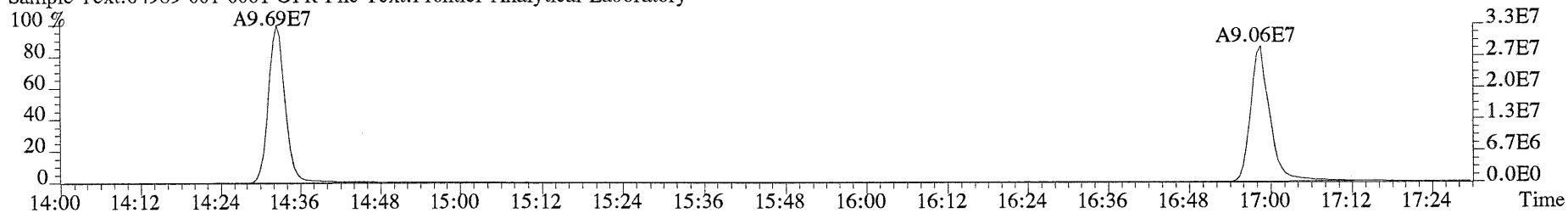
File:31JUL19Z #1-783 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



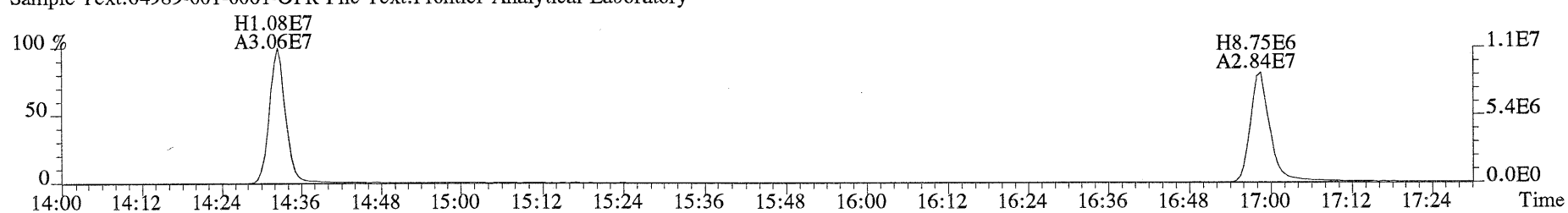
File:31JUL19Z #1-783 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



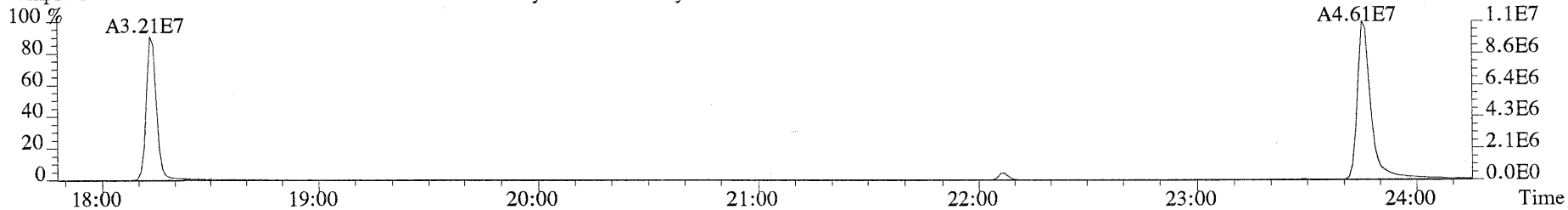
File:31JUL19Z #1-783 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



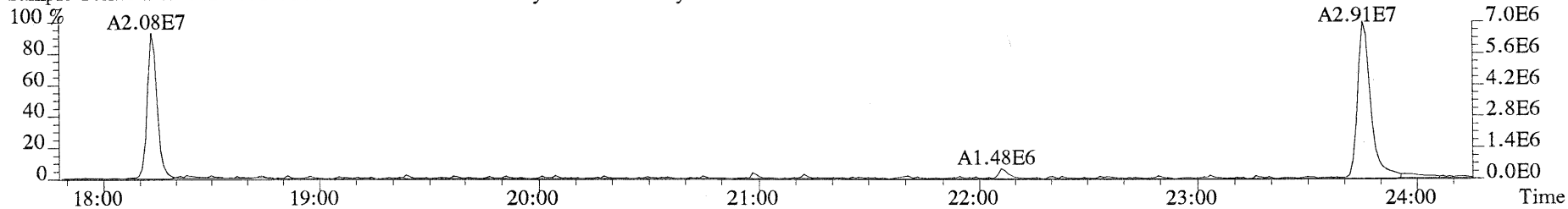
File:31JUL19Z #1-783 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



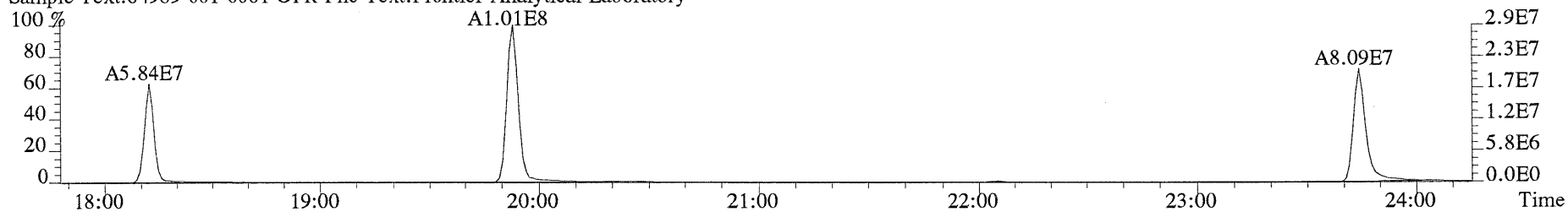
File:31JUL19Z #1-520 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



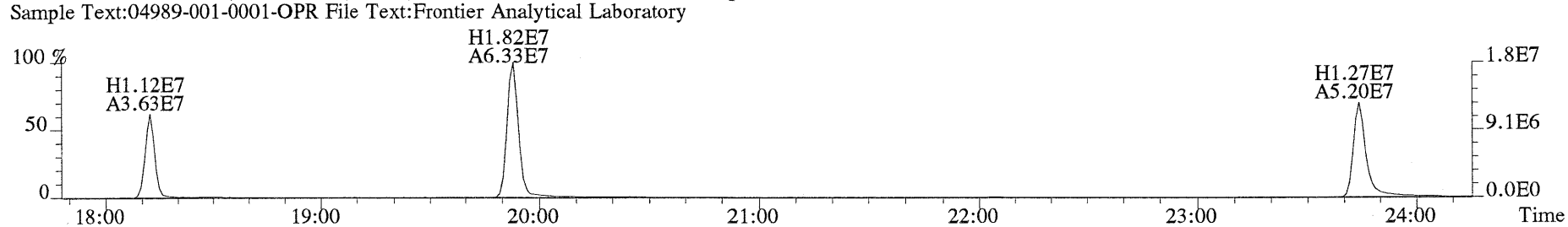
File:31JUL19Z #1-520 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



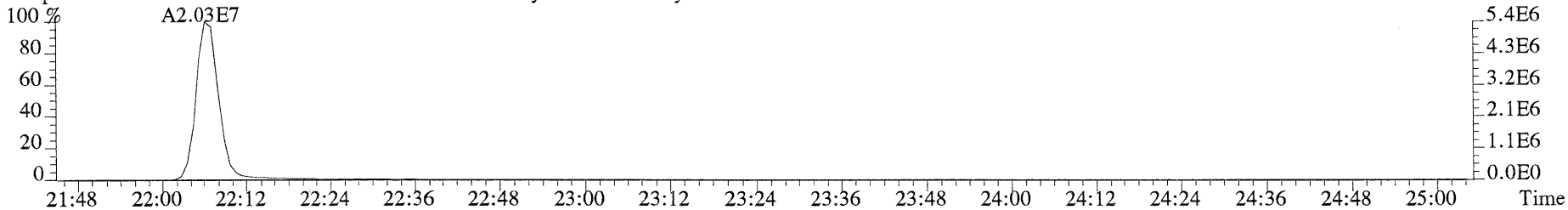
File:31JUL19Z #1-520 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



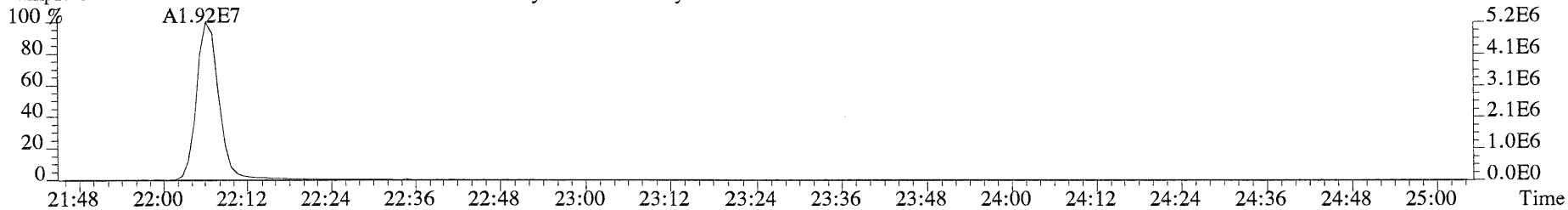
File:31JUL19Z #1-520 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



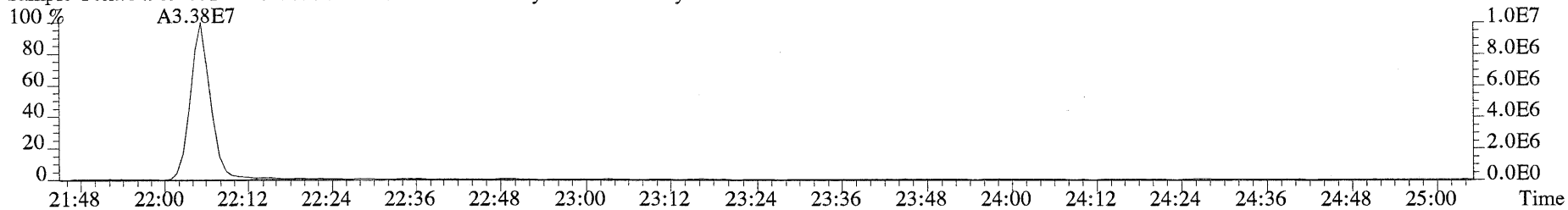
File:31JUL19Z #1-520 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



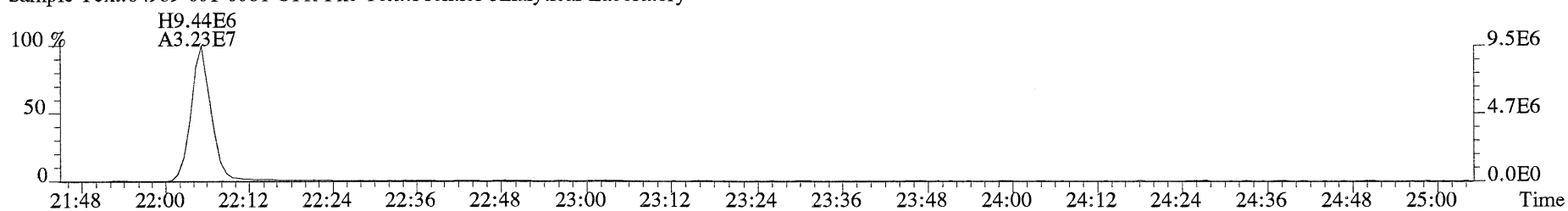
File:31JUL19Z #1-520 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



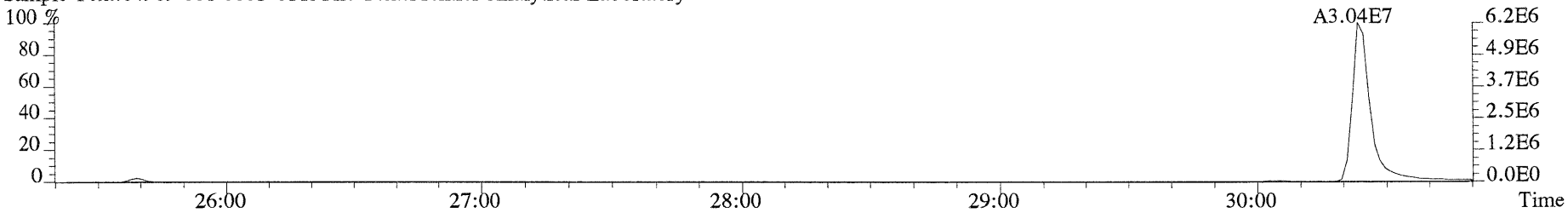
File:31JUL19Z #1-520 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



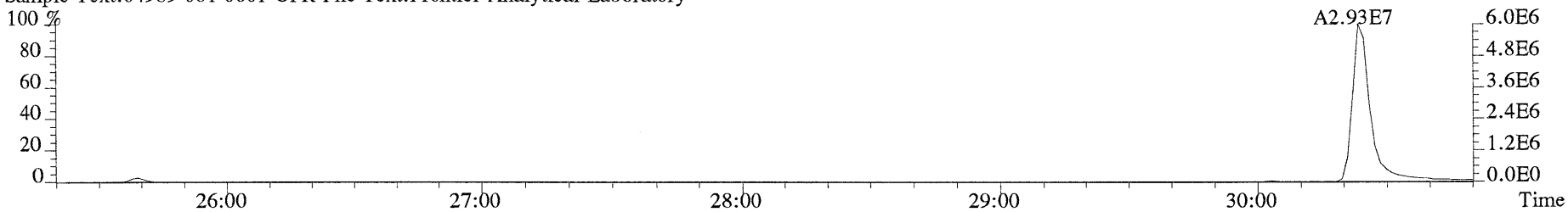
File:31JUL19Z #1-520 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



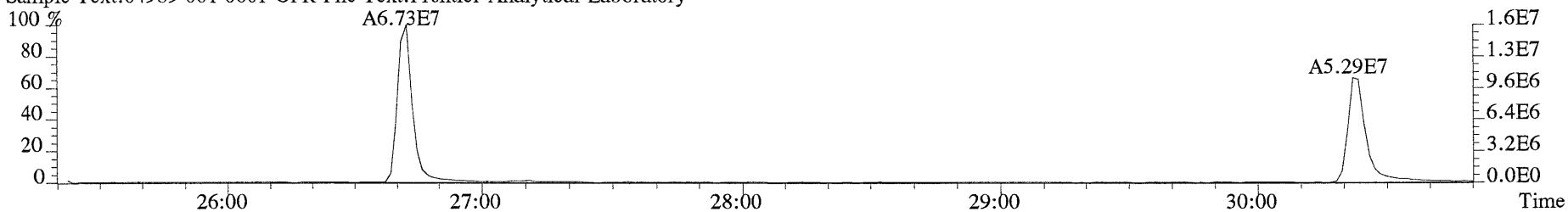
File:31JUL19Z #1-401 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



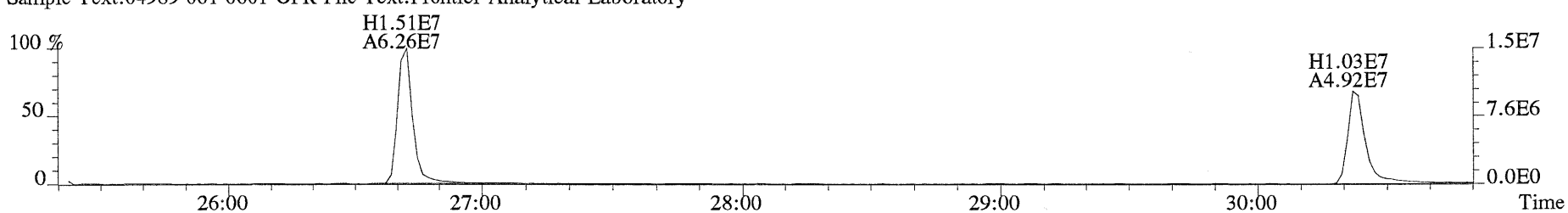
File:31JUL19Z #1-401 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



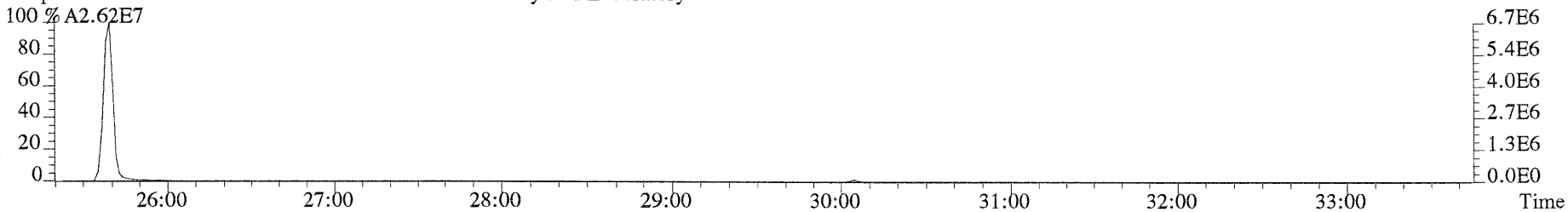
File:31JUL19Z #1-401 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



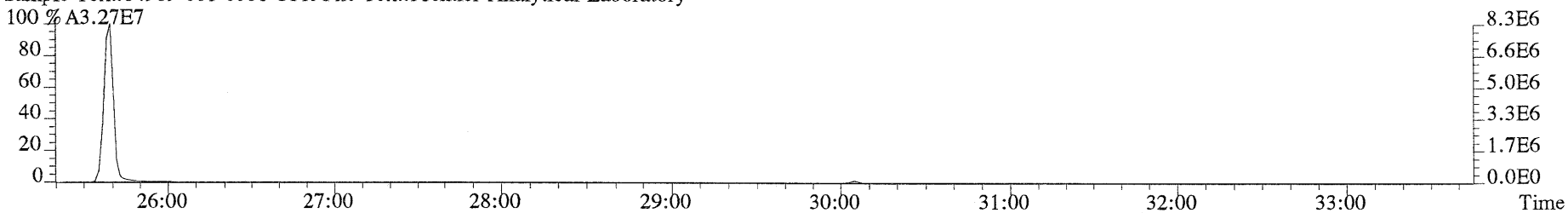
File:31JUL19Z #1-401 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



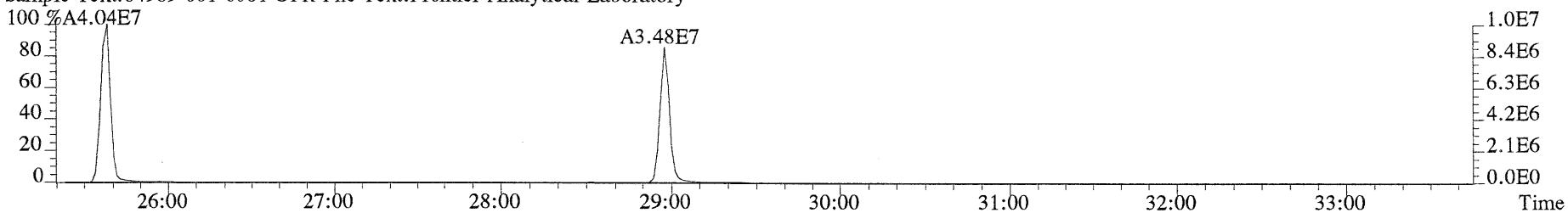
File:31JUL19Z #1-401 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



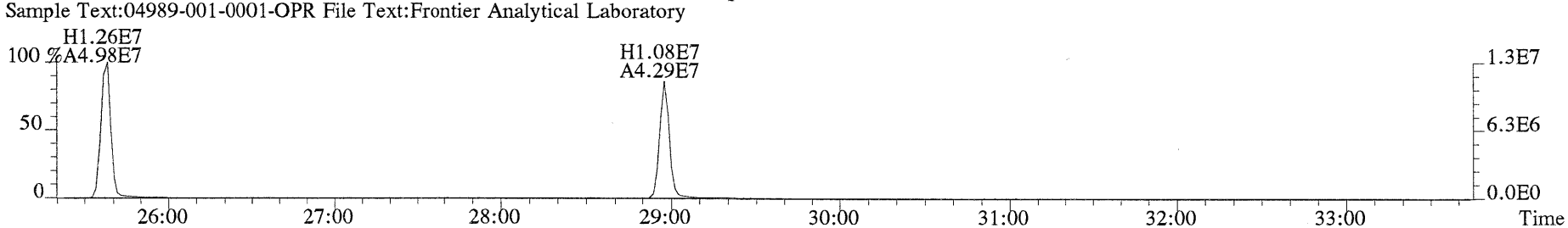
File:31JUL19Z #1-401 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



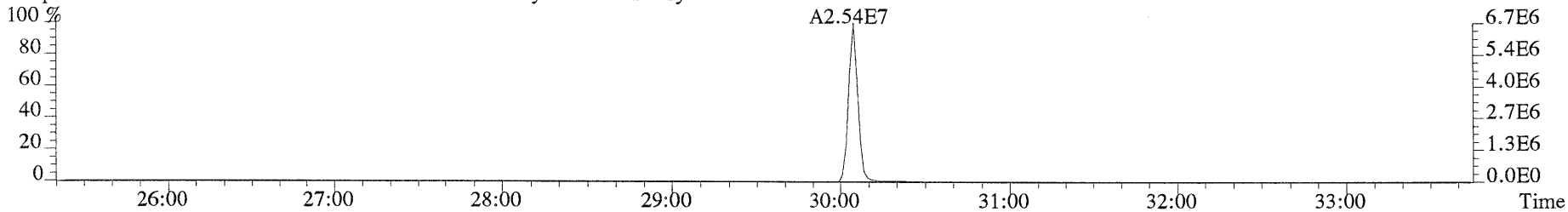
File:31JUL19Z #1-401 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



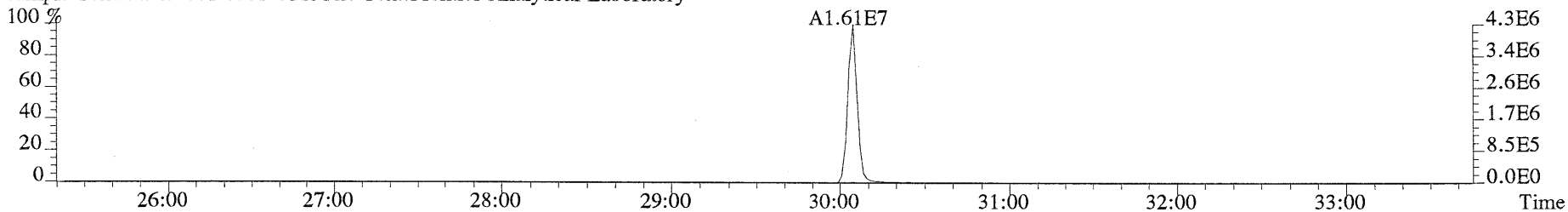
File:31JUL19Z #1-401 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



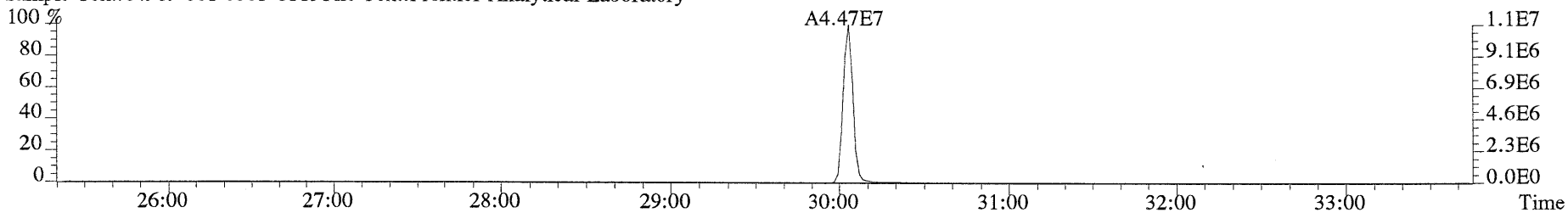
File:31JUL19Z #1-401 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



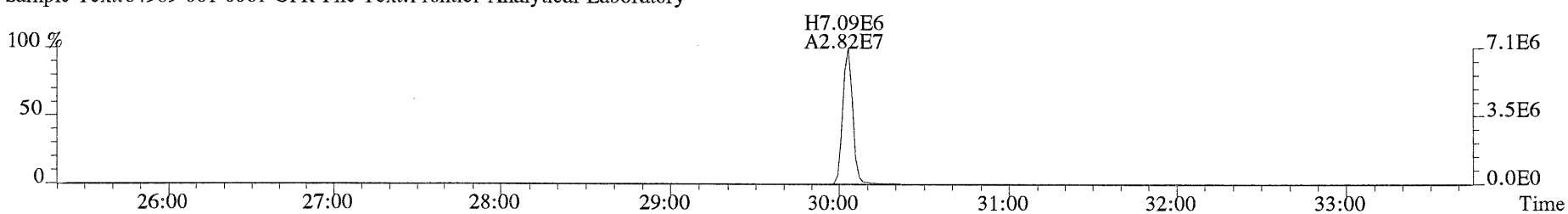
File:31JUL19Z #1-401 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



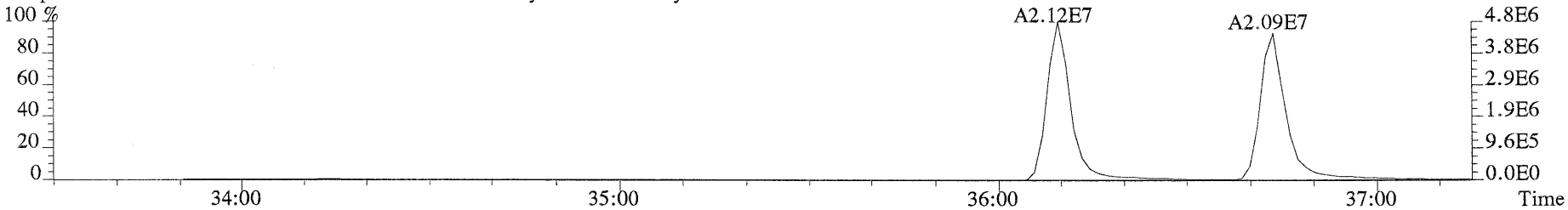
File:31JUL19Z #1-401 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



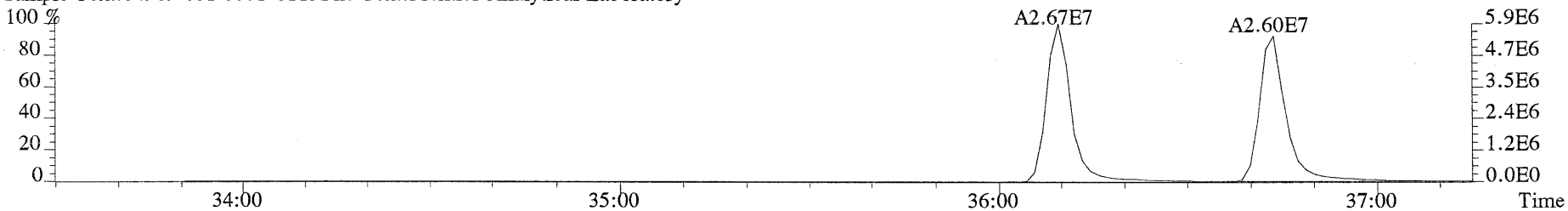
File:31JUL19Z #1-401 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



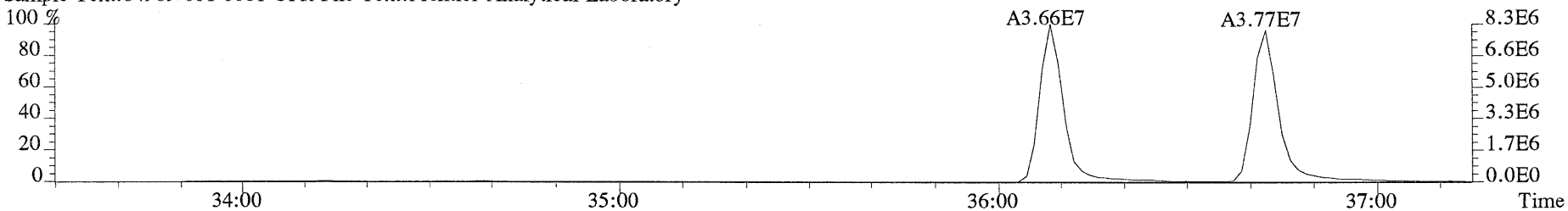
File:31JUL19Z #1-181 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



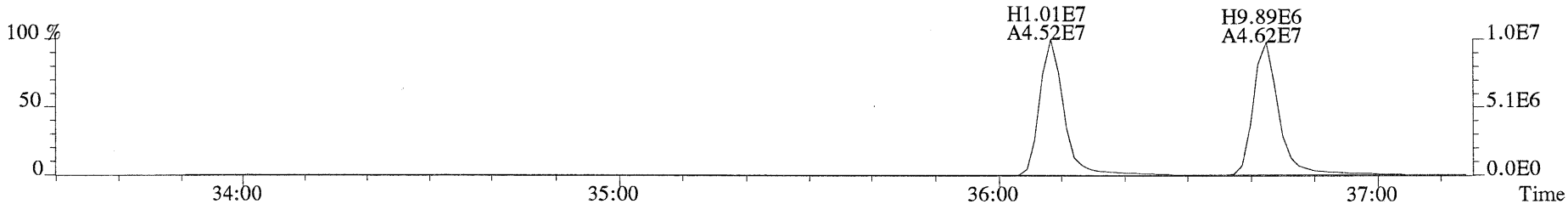
File:31JUL19Z #1-181 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



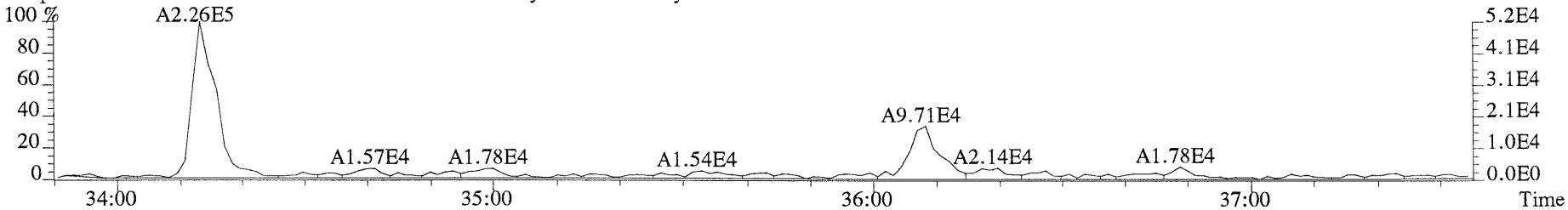
File:31JUL19Z #1-181 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



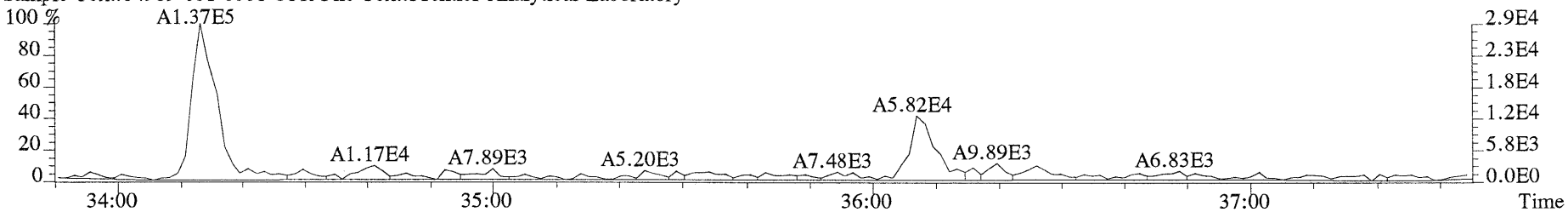
File:31JUL19Z #1-181 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



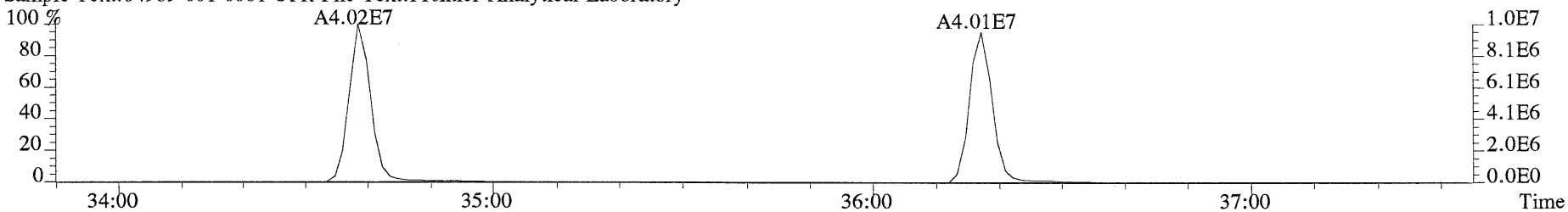
File:31JUL19Z #1-181 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



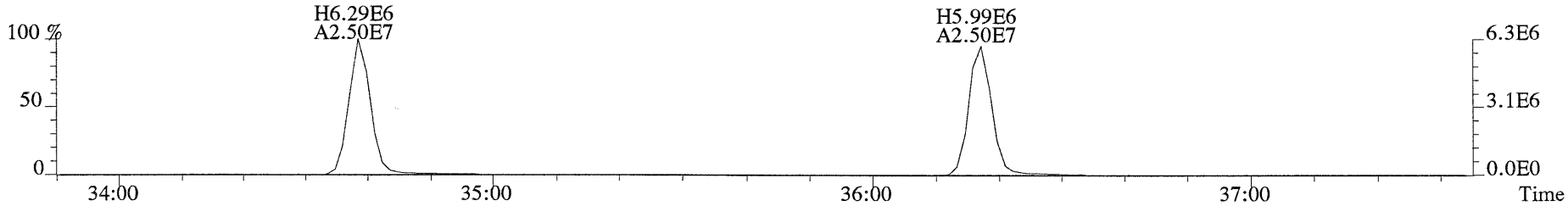
File:31JUL19Z #1-181 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



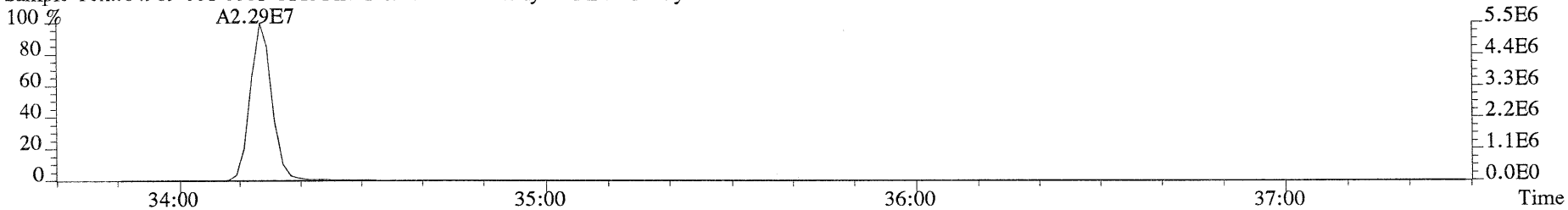
File:31JUL19Z #1-181 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



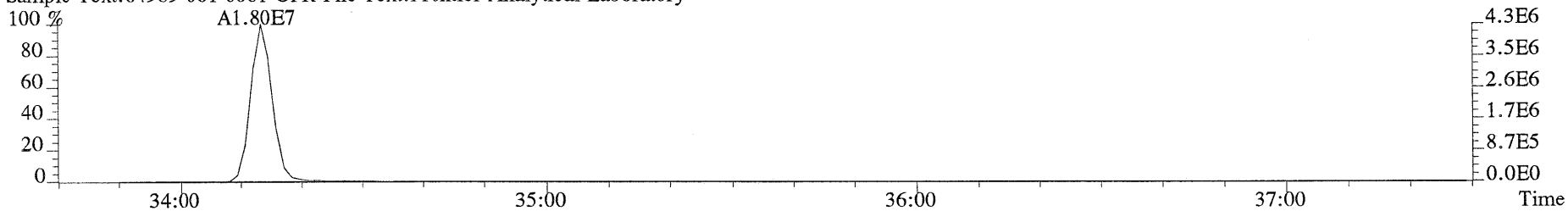
File:31JUL19Z #1-181 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



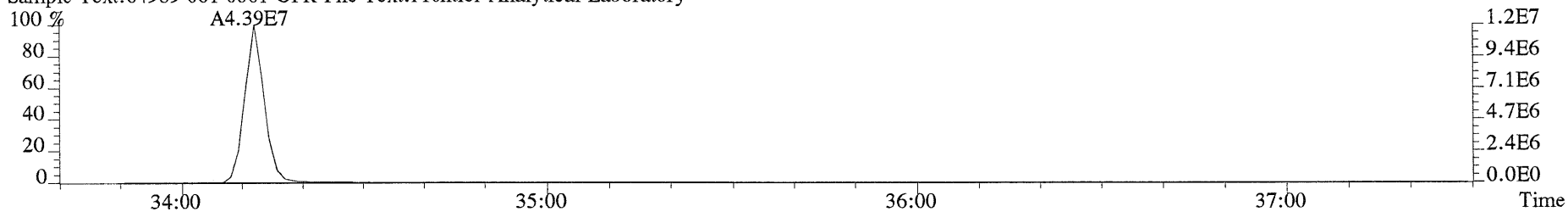
File:31JUL19Z #1-181 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



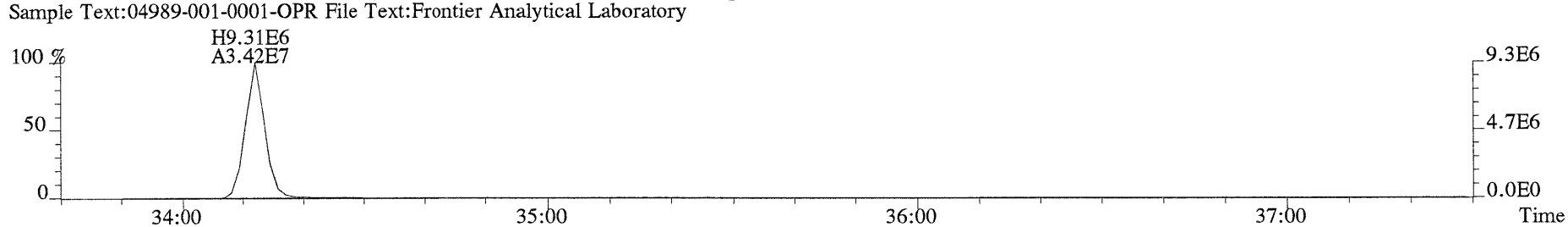
File:31JUL19Z #1-181 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



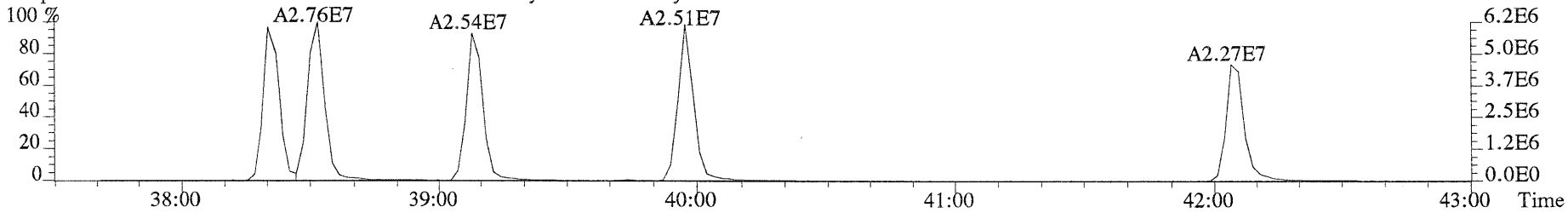
File:31JUL19Z #1-181 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



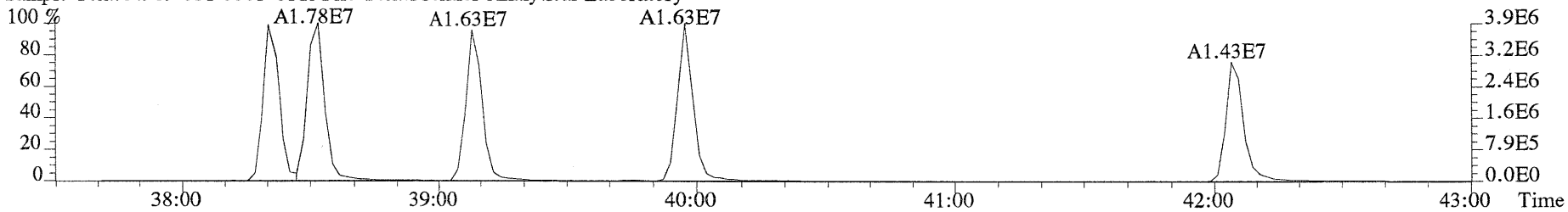
File:31JUL19Z #1-181 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



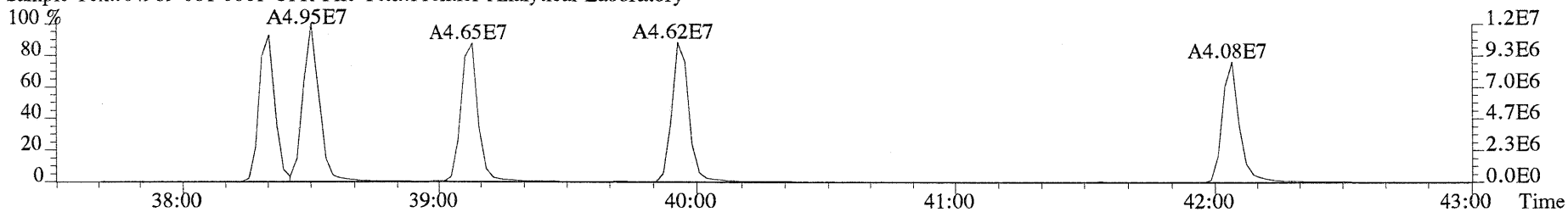
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



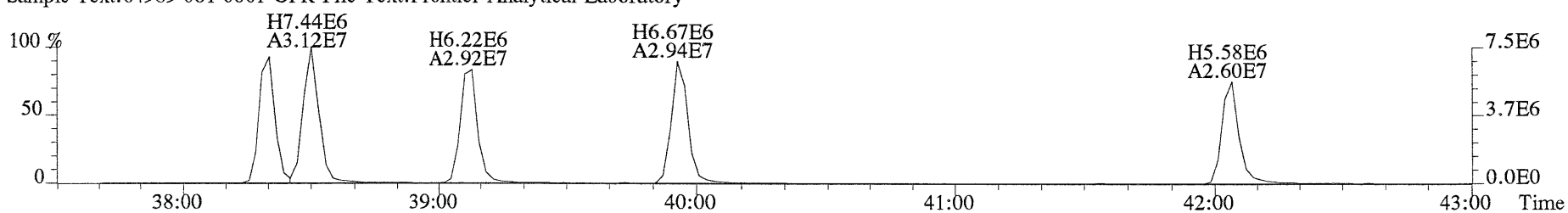
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



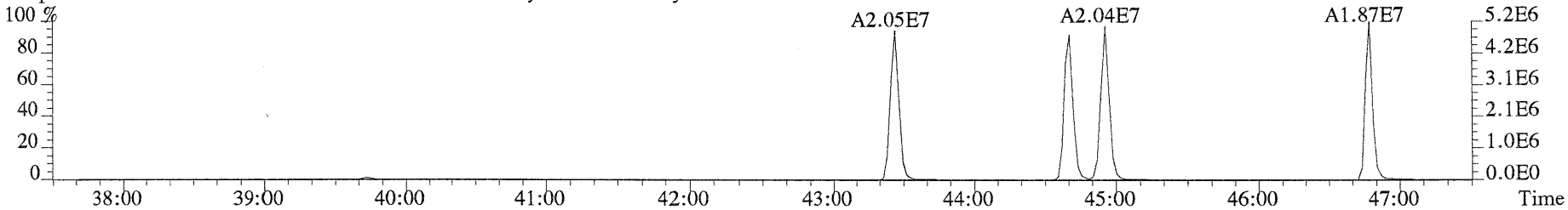
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



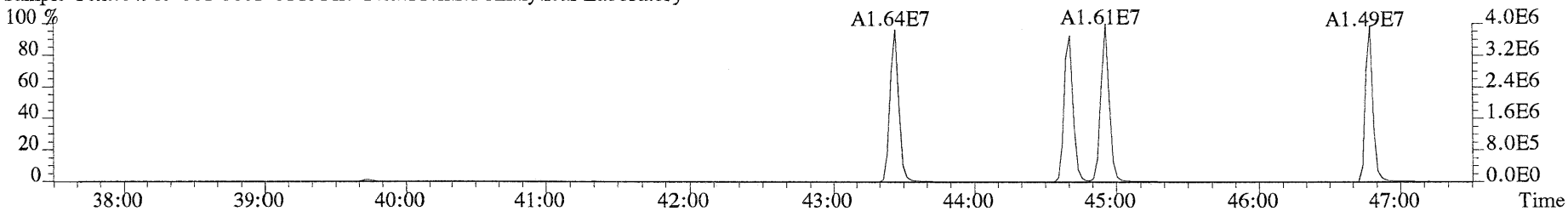
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



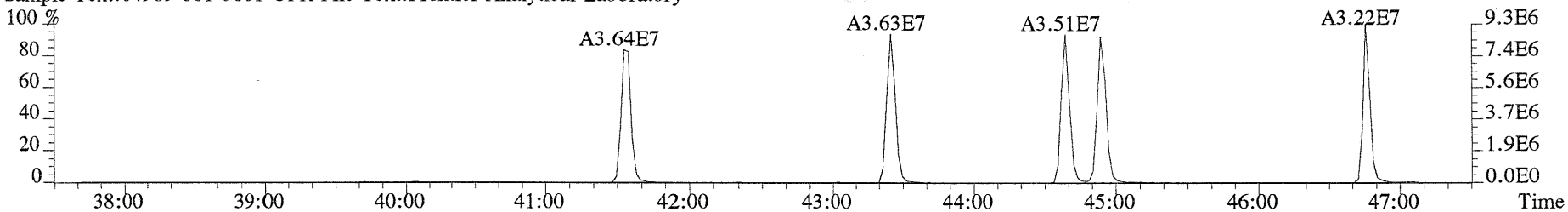
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



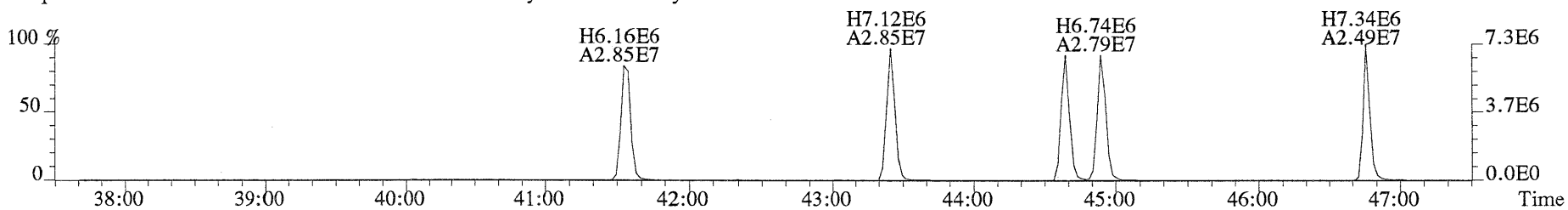
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



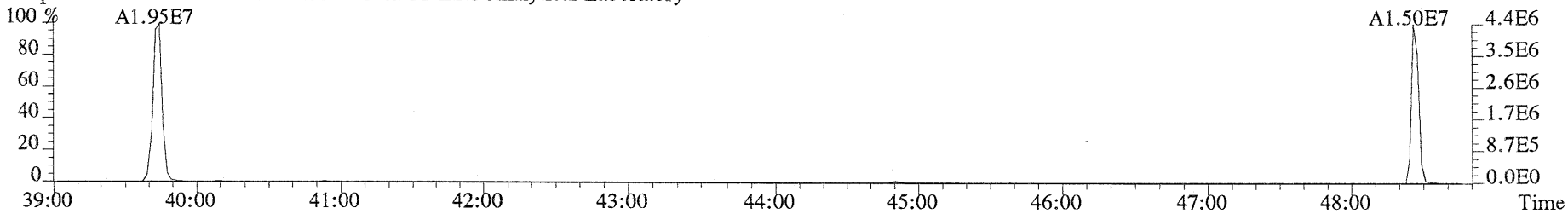
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



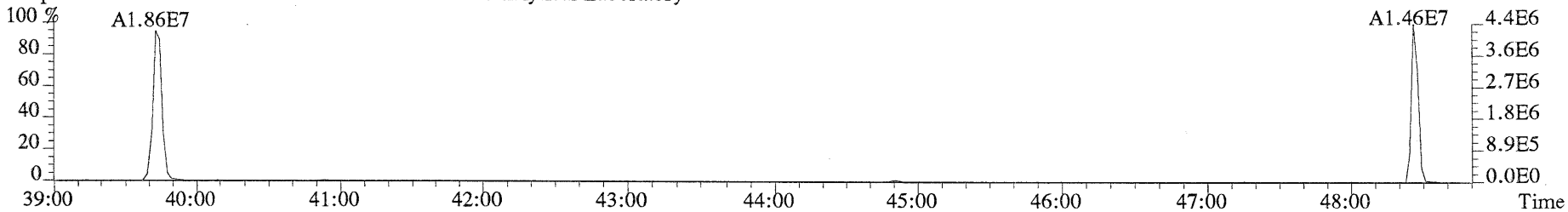
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



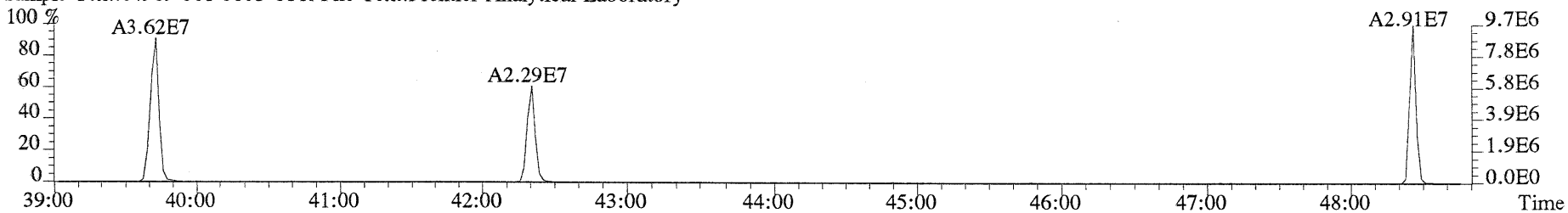
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



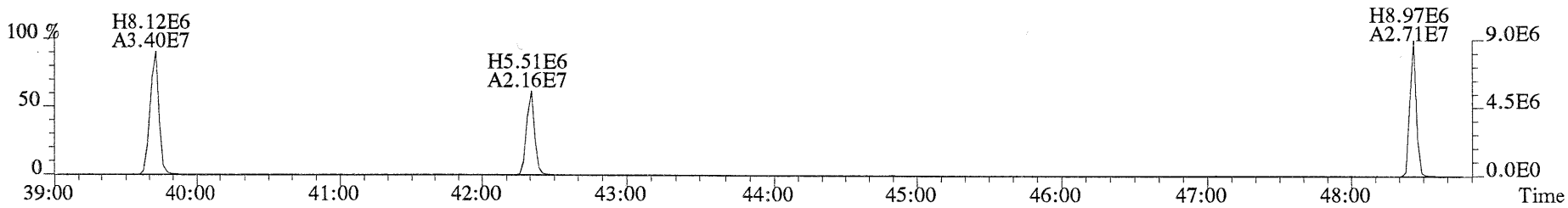
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



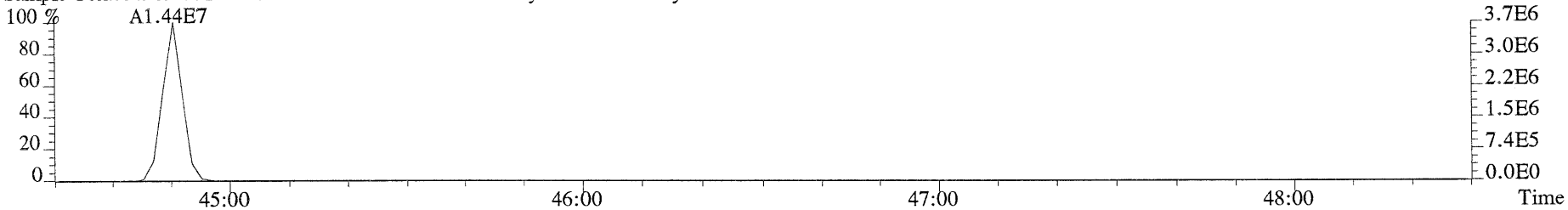
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



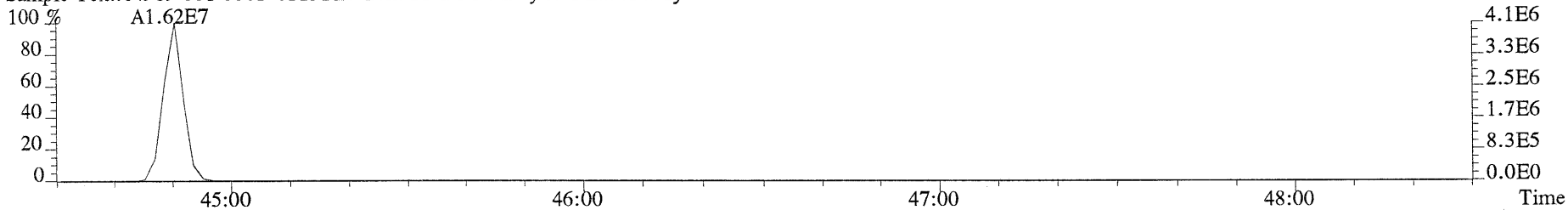
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



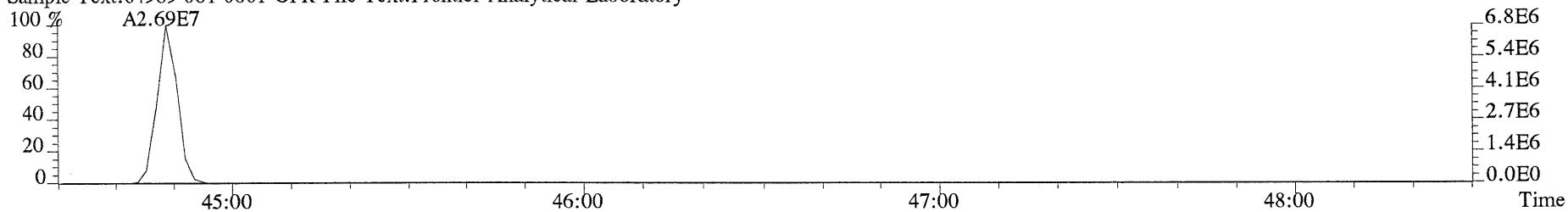
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



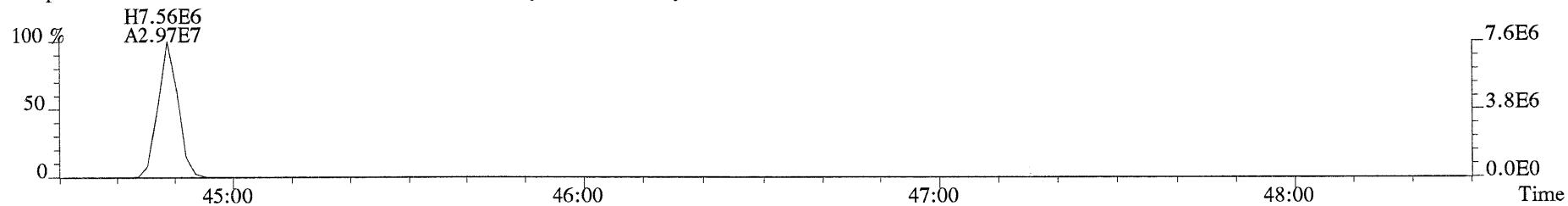
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



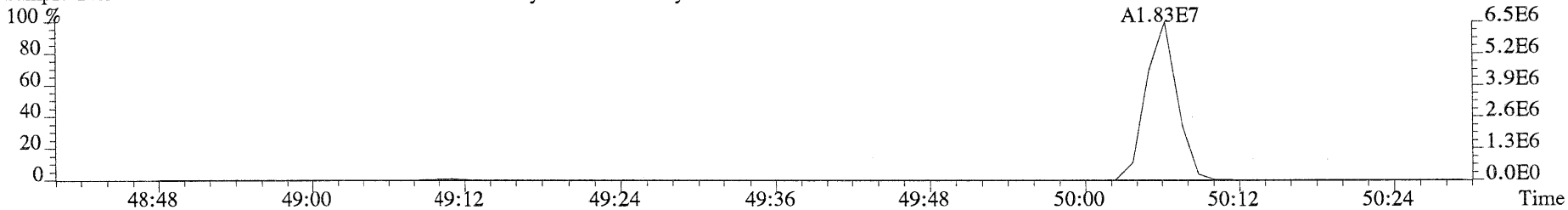
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



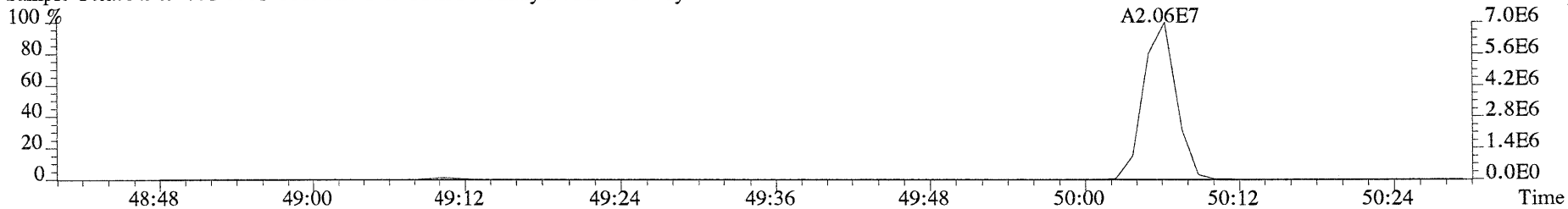
File:31JUL19Z #1-405 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



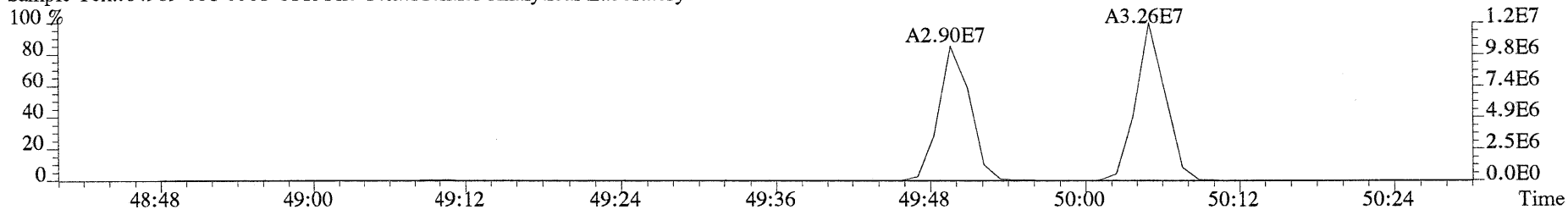
File:31JUL19Z #1-315 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



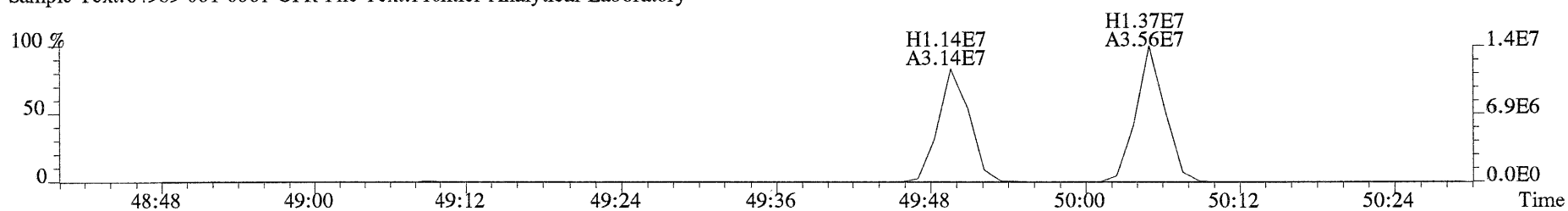
File:31JUL19Z #1-315 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



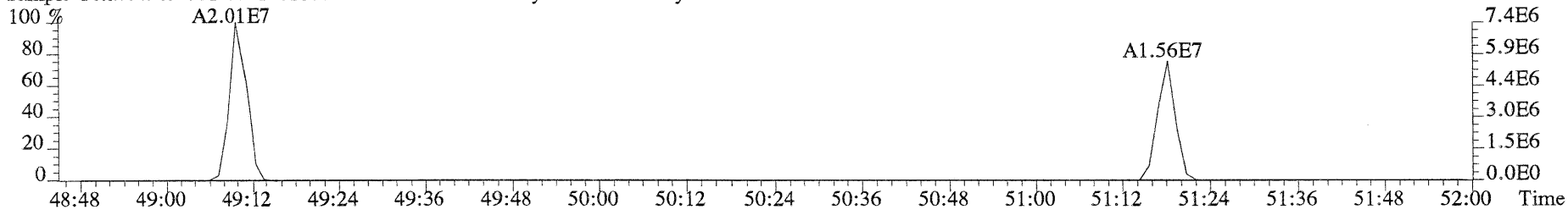
File:31JUL19Z #1-315 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



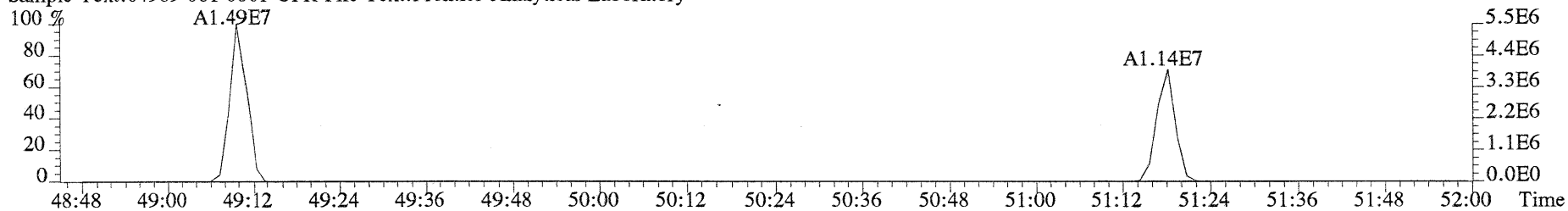
File:31JUL19Z #1-315 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



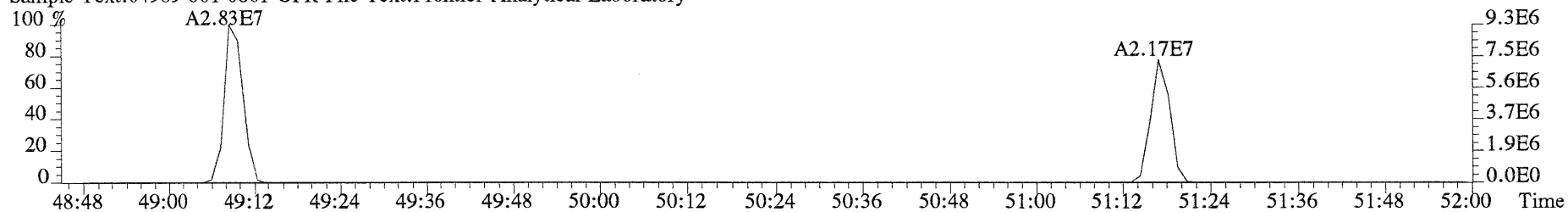
File:31JUL19Z #1-315 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



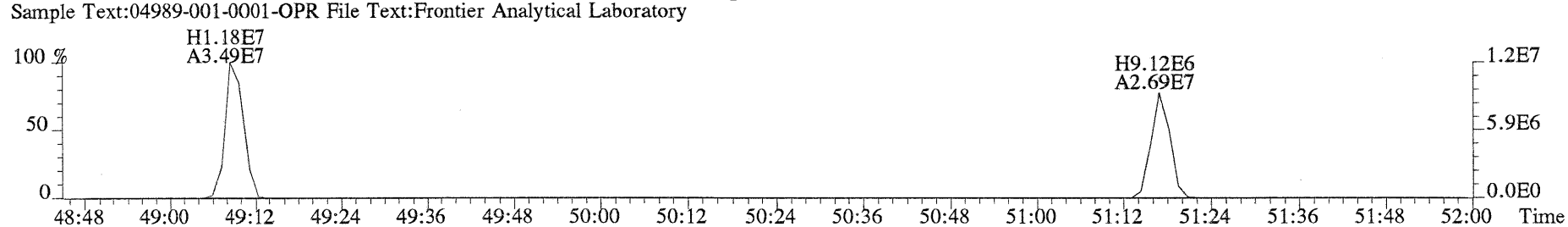
File:31JUL19Z #1-315 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



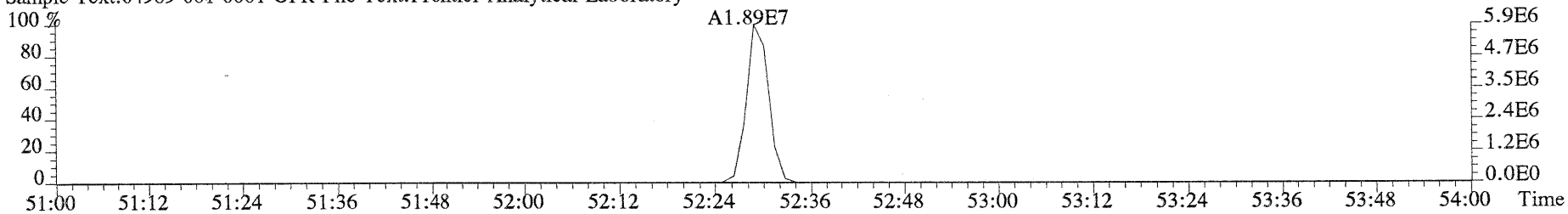
File:31JUL19Z #1-315 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



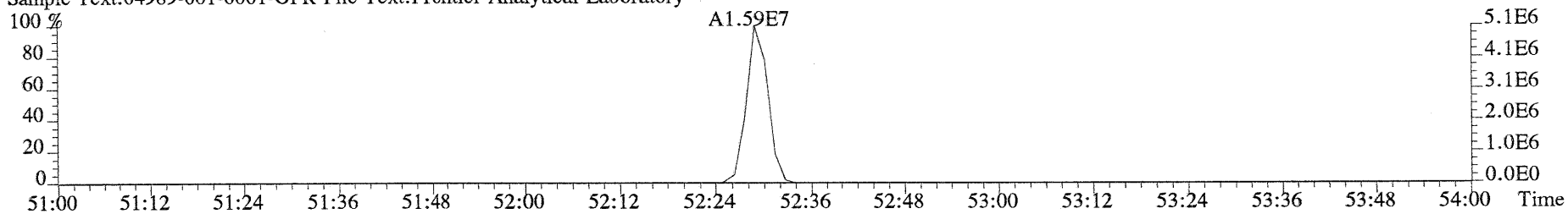
File:31JUL19Z #1-315 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



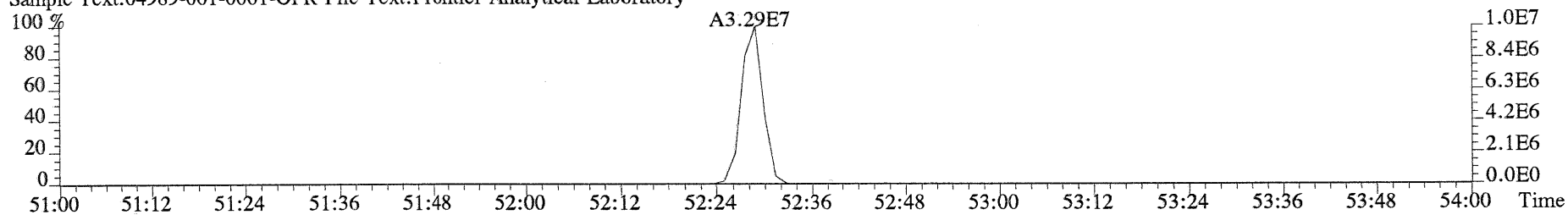
File:31JUL19Z #1-315 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



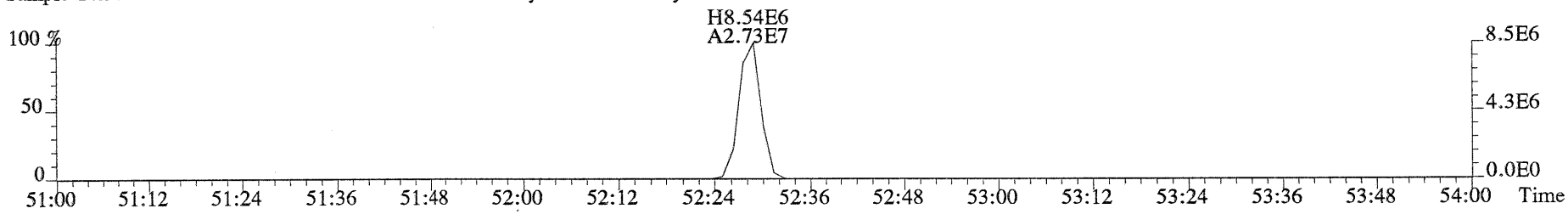
File:31JUL19Z #1-315 Acq:31-JUL-2019 14:21:47 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 14:21:47 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:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 14:21:47 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:04989-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 12510-001-0001-SA Filename: 31JUL19Z Sam:5 Acquired: 31-JUL-19 16:18:55 ICal: DAILY209FAL4-7-31-19
Client ID: LDW-Y2-SC-S010-TB ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.20	*		3210	2600	2.58	
13C-PCB-1	1.34e+08	3.14	y	14:32	0.94	8230					82.3
PCB-2	*	*	n	NotFnd	1.19	*		3210	2600	2.83	
PCB-3	*	*	n	NotFnd	1.22	*		3210	2600	2.99	
13C-PCB-3	1.36e+08	3.25	y	16:58	0.88	8890					88.9
PCB-4	*	*	n	NotFnd	1.16	*		1040	8900	7.03	
PCB-10	*	*	n	NotFnd	1.41	*		1040	8900	5.33	
13C-PCB-4	1.03e+08	1.62	y	18:11	0.67	8780					87.8
PCB-9	*	*	n	NotFnd	1.44	*		1040	8900	5.22	
PCB-7	*	*	n	NotFnd	1.43	*		1040	8900	5.28	
PCB-6	*	*	n	NotFnd	1.49	*		1040	8900	5.05	
PCB-8	2.40e+05	1.51	y	20:54	1.36	13.7	J	-	-	*	
PCB-5	*	*	n	NotFnd	1.45	*		1040	8900	5.19	
PCB-14	2.66e+07	1.46	y	21:57	1.36	1510		-	-	*	
PCB-11	3.71e+06	1.52	y	23:06	1.24	232		-	-	*	
PCB-13	*	*	n	NotFnd	1.24	*		1040	8900	6.05	
PCB-12	*	*	n	NotFnd	1.28	*		1040	8900	5.88	
PCB-15	*	*	n	NotFnd	1.16	*		1040	8900	6.17	
13C-PCB-15	1.55e+08	1.55	y	23:44	0.91	9720					97.2
PCB-19	3.88e+04	1.19	y	22:06	1.16	4.24	J	-	-	*	
PCB-30	*	*	n	NotFnd	1.70	*		1480	608	1.46	
PCB-18	1.62e+05	1.06	y	23:39	1.12	18.3	J	-	-	*	
PCB-17	7.51e+04	1.03	y	23:48	1.27	7.53	J	-	-	*	
PCB-27	*	*	n	NotFnd	1.62	*		1480	608	1.54	
PCB-24	*	*	n	NotFnd	1.68	*		1480	608	1.48	
PCB-16	5.95e+04	1.15	y	24:49	1.38	5.49	J	-	-	*	
PCB-32	6.09e+04	1.17	y	24:50	1.46	5.29	J	-	-	*	
13C-PCB-19	7.87e+07	1.07	y	22:05	0.49	9160					91.6
13C-PCB-9	1.74e+08	1.60	y	19:53	-	103					
PCB-34	*	*	n	NotFnd	1.23	*		2830	1420	3.08	
PCB-23	*	*	n	NotFnd	1.39	*		2830	1420	2.72	
PCB-29	*	*	n	NotFnd	1.33	*		2830	1420	2.84	
PCB-26	*	*	n	NotFnd	1.26	*		2830	1420	3.01	
PCB-25	*	*	n	NotFnd	1.26	*		2830	1420	3.02	
PCB-31	1.77e+05	1.15	y	26:36	1.19	10.6	J	-	-	*	
PCB-28	2.32e+05	0.98	y	26:43	1.60	10.3	J	-	-	*	
PCB-20	1.55e+05	1.17	y	27:19	1.25	8.85	J	-	-	*	Co-elute PCB 21/33
PCB-21	1.55e+05	1.17	y	27:19	1.25	8.85	J	-	-	*	Co-elute PCB 20/33
PCB-33	1.55e+05	1.17	y	27:19	1.25	8.85	J	-	-	*	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.40	*		2830	1420	2.71	
PCB-36	2.08e+07	1.04	y	28:18	1.24	1190		-	-	*	
PCB-39	*	*	n	NotFnd	1.25	*		2830	1420	3.03	
PCB-38	*	*	n	NotFnd	1.27	*		2830	1420	2.99	
PCB-35	*	*	n	NotFnd	1.14	*		2830	1420	3.32	
PCB-37	*	*	n	NotFnd	1.21	*		2830	1420	3.14	
13C-PCB-37	1.41e+08	1.06	y	30:23	1.51	9970					99.7

PCB-54	*	*	n	NotFnd	1.24	*		848	1360	1.80	
PCB-50	6.93e+04	0.68	y	26:44	0.93	7.45	J	-	-	*	
PCB-53	*	*	n	NotFnd	0.90	*		848	1360	2.48	
PCB-51	7.28e+04	0.81	y	27:41	0.96	7.58	J	-	-	*	
PCB-45	*	*	n	NotFnd	0.79	*		848	1360	2.84	
PCB-46	*	*	n	NotFnd	0.74	*		848	1360	3.01	
PCB-52	1.38e+05	0.88	y	28:58	0.92	15.0	J	-	-	*	Co-elute PCB 69
PCB-69	1.38e+05	0.88	y	28:58	0.92	15.0	J	-	-	*	Co-elute PCB 52
PCB-73	1.86e+05	0.80	y	29:06	1.13	16.5	J	-	-	*	
PCB-43	6.93e+04	0.71	y	29:16	0.82	8.52	J	-	-	*	Co-elute PCB 49
PCB-49	6.93e+04	0.71	y	29:16	0.82	8.52	J	-	-	*	Co-elute PCB 43
PCB-47	1.14e+05	0.87	y	29:27	0.81	14.1	J	-	-	*	
PCB-48	*	*	n	NotFnd	1.07	*		848	1360	2.08	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	1.07	*		848	1360	2.08	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*		848	1360	2.14	
PCB-62	*	*	n	NotFnd	1.06	*		848	1360	2.12	
PCB-44	6.72e+04	0.72	y	30:13	0.69	9.73	J	-	-	*	
PCB-42	*	*	n	NotFnd	0.90	*		848	1360	2.48	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.90	*		848	1360	2.48	Co-elute PCB 42
PCB-72	8.22e+04	0.74	y	30:59	1.02	8.09	J	-	-	*	Co-elute PCB 41/71/64
PCB-41	8.22e+04	0.74	y	30:59	1.02	8.09	J	-	-	*	Co-elute PCB 72/71/64
PCB-71	8.22e+04	0.74	y	30:59	1.02	8.09	J	-	-	*	Co-elute PCB 72/41/64
PCB-64	8.22e+04	0.74	y	30:59	1.02	8.09	J	-	-	*	Co-elute PCB 72/41/71
PCB-68	1.26e+05	0.66	y	31:13	1.17	10.8	J	-	-	*	
PCB-40	*	*	n	NotFnd	0.65	*		848	1360	3.42	
PCB-57	*	*	n	NotFnd	1.07	*		848	1360	2.08	
PCB-67	*	*	n	NotFnd	1.03	*		848	1360	2.18	
PCB-58	*	*	n	NotFnd	1.14	*		848	1360	1.95	
PCB-63	*	*	n	NotFnd	1.07	*		848	1360	2.09	
PCB-74	*	*	n	NotFnd	1.06	*		848	1360	2.11	
PCB-61	7.69e+04	0.81	y	32:48	1.00	7.71	J	-	-	*	Co-elute PCB 70
PCB-70	7.69e+04	0.81	y	32:48	1.00	7.71	J	-	-	*	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.11	*		848	1360	2.01	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.11	*		848	1360	2.01	Co-elute PCB 76
PCB-80	1.16e+05	0.84	y	33:12	1.29	9.01	J	-	-	*	
PCB-55	5.23e+05	0.88	y	33:31	1.13	46.4		-	-	*	
13C-PCB-54	9.97e+07	0.84	y	25:37	1.34	7960					79.6
PCB-104	2.30e+07	1.55	y	30:04	1.09	2330		-	-	*	
PCB-96	*	*	n	NotFnd	1.05	*		840	789	1.67	
PCB-103	*	*	n	NotFnd	0.84	*		840	789	2.09	
PCB-100	5.50e+04	1.39	y	32:05	0.85	7.16	J	-	-	*	
PCB-94	*	*	n	NotFnd	0.70	*		840	789	2.51	
PCB-98	*	*	n	NotFnd	0.70	*		840	789	2.50	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.70	*		840	789	2.50	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.77	*		840	789	2.28	
PCB-93	3.38e+05	1.61	y	33:08	0.76	49.1		-	-	*	
PCB-88	*	*	n	NotFnd	0.78	*		840	789	2.23	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.78	*		840	789	2.23	Co-elute PCB 88
PCB-121	4.02e+07	1.58	y	33:31	0.97	4600		-	-	*	
13C-PCB-104	9.05e+07	1.58	y	30:03	1.08	8970					89.7
13C-PCB-28	1.61e+08	1.05	y	26:42	1.80	9580					95.8
13C-PCB-52	9.33e+07	0.80	y	28:57	-	115					

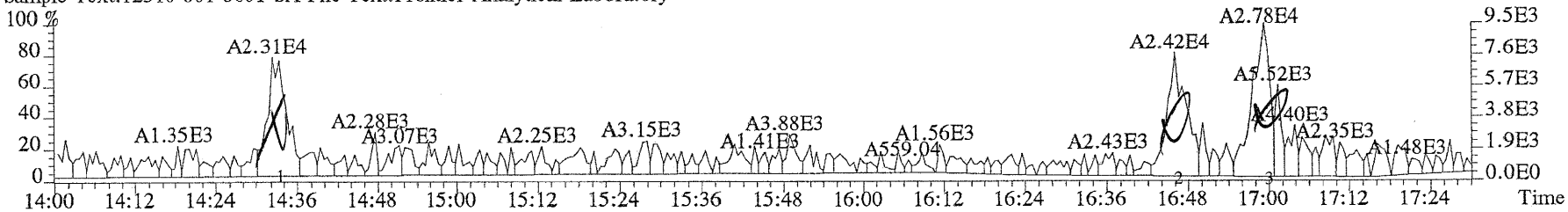
PCB-56	*	*	n	NotFnd	1.15	*		1510	2070	3.08	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.15	*		1510	2070	3.08	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.22	*		1510	2070	2.90	
PCB-78	4.35e+07	0.78	y	35:40	1.19	3080		-	-	*	
PCB-81	*	*	n	NotFnd	1.25	*		1510	2070	2.86	
13C-PCB-81	1.17e+08	0.81	y	36:08	1.49	9600					96.0
PCB-77	*	*	n	NotFnd	1.08	*		1510	2070	3.25	
13C-PCB-77	1.20e+08	0.79	y	36:42	1.57	9300					93.0
PCB-155	3.96e+07	1.29	y	34:13	1.04	3890		-	-	*	
PCB-150	*	*	n	NotFnd	0.98	*		954	899	1.94	
PCB-152	*	*	n	NotFnd	0.95	*		954	899	2.00	
PCB-145	*	*	n	NotFnd	0.97	*		954	899	1.95	
PCB-136	*	*	n	NotFnd	0.95	*		954	899	2.00	
PCB-148	*	*	n	NotFnd	0.70	*		954	899	2.72	
PCB-154	9.94e+04	1.11	y	37:10	0.81	12.6	J	-	-	*	
13C-PCB-155	9.80e+07	1.28	y	34:11	1.37	8750					87.5
13C-PCB-111	9.14e+07	1.58	y	36:16	1.21	9190					91.9
13C-PCB-101	8.20e+07	1.61	y	34:38	-	116					
PCB-84	3.96e+05	1.59	y	34:13	0.77	47.2		-	-	*	Co-elute PCB 92
PCB-92	3.96e+05	1.59	y	34:13	0.77	47.2		-	-	*	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.76	*		1640	1420	4.06	
PCB-90	6.69e+04	1.44	y	34:40	0.82	7.45	J	-	-	*	Co-elute PCB 101
PCB-101	6.69e+04	1.44	y	34:40	0.82	7.45	J	-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.92	*		1640	1420	3.36	
PCB-99	*	*	n	NotFnd	0.91	*		1640	1420	3.40	
PCB-119	*	*	n	NotFnd	1.01	*		1640	1420	3.06	
PCB-83	*	*	n	NotFnd	0.82	*		1640	1420	3.74	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.82	*		1640	1420	3.74	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.00	*		1640	1420	3.09	
PCB-97	*	*	n	NotFnd	0.69	*		1640	1420	4.48	
PCB-86	*	*	n	NotFnd	0.72	*		1640	1420	4.31	
PCB-125	*	*	n	NotFnd	0.90	*		1640	1420	3.43	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.90	*		1640	1420	3.43	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.90	*		1640	1420	3.43	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.01	*		1640	1420	3.04	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.01	*		1640	1420	3.04	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.91	*		1640	1420	3.40	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.91	*		1640	1420	3.40	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.04	*		1640	1420	2.95	
PCB-110	*	*	n	NotFnd	1.03	*		1640	1420	3.01	
PCB-82	*	*	n	NotFnd	0.60	*		1640	1420	5.10	
PCB-124	*	*	n	NotFnd	1.21	*		1560	1190	2.30	
PCB-108	*	*	n	NotFnd	1.14	*		1560	1190	2.44	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.14	*		1560	1190	2.44	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.04	*		1560	1190	2.56	
13C-PCB-123	1.06e+08	1.58	y	38:20	1.28	10400					104
PCB-118	*	*	n	NotFnd	1.10	*		1560	1190	2.33	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.10	*		1560	1190	2.33	Co-elute PCB 118
13C-PCB-118	1.16e+08	1.62	y	38:29	1.39	10400					104
PCB-114	*	*	n	NotFnd	1.23	*		1560	1190	2.26	
13C-PCB-114	1.11e+08	1.62	y	39:07	1.31	10600					106
PCB-122	*	*	n	NotFnd	1.12	*		1560	1190	2.48	
PCB-105	*	*	n	NotFnd	1.19	*		1560	1190	2.62	
13C-PCB-105	1.06e+08	1.59	y	39:57	1.32	9970					99.7

PCB-127	*	*	n	NotFnd	1.09	*		1560	1190	2.56	
PCB-126	*	*	n	NotFnd	1.12	*		1560	1190	2.95	
13C-PCB-126	9.52e+07	1.61	y	42:03	1.25	9510					95.1
PCB-151	*	*	n	NotFnd	0.91	*		956	732	2.40	
PCB-135	*	*	n	NotFnd	0.86	*		956	732	2.55	
PCB-144	*	*	n	NotFnd	1.09	*		956	732	2.00	
PCB-147	*	*	n	NotFnd	1.01	*		956	732	2.17	
PCB-139	*	*	n	NotFnd	1.04	*		956	732	2.10	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	1.04	*		956	732	2.10	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	1.03	*		956	732	2.12	
PCB-143	*	*	n	NotFnd	0.84	*		956	732	2.61	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.84	*		956	732	2.61	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.85	*		956	732	2.58	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.85	*		956	732	2.58	Co-elute PCB 131
PCB-142	9.04e+07	1.25	y	39:29	0.85	12700		-	-	*	
PCB-165	*	*	n	NotFnd	1.12	*		956	732	1.95	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.12	*		956	732	1.95	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	1.04	*		956	732	2.11	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	1.04	*		956	732	2.11	Co-elute PCB 161
PCB-153	6.74e+05	1.29	y	40:08	1.16	69.5		-	-	*	
PCB-168	*	*	n	NotFnd	1.25	*		956	732	1.76	
PCB-141	*	*	n	NotFnd	0.94	*		956	732	2.33	
PCB-137	*	*	n	NotFnd	0.86	*		956	732	2.55	
PCB-130	*	*	n	NotFnd	0.90	*		956	732	2.44	
PCB-138	*	*	n	NotFnd	1.13	*		956	732	1.94	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.13	*		956	732	1.94	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.13	*		956	732	1.94	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.25	*		956	732	1.76	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.25	*		956	732	1.76	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.81	*		956	732	2.71	
PCB-166	*	*	n	NotFnd	1.18	*		956	732	1.85	
PCB-159	*	*	n	NotFnd	1.27	*		956	732	1.73	
PCB-128	*	*	n	NotFnd	1.05	*		956	732	2.10	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	1.05	*		956	732	2.10	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.15	*		956	732	1.88	
13C-PCB-167	8.79e+07	1.30	y	43:24	1.14	9650					96.5
PCB-156	*	*	n	NotFnd	1.21	*		956	732	1.73	
13C-PCB-156	8.35e+07	1.28	y	44:38	1.12	9290					92.9
PCB-157	*	*	n	NotFnd	1.17	*		956	732	1.88	
13C-PCB-157	8.64e+07	1.28	y	44:53	1.15	9370					93.7
PCB-169	*	*	n	NotFnd	1.10	*		956	732	2.12	
13C-PCB-169	7.59e+07	1.29	y	46:45	1.07	8830					88.3

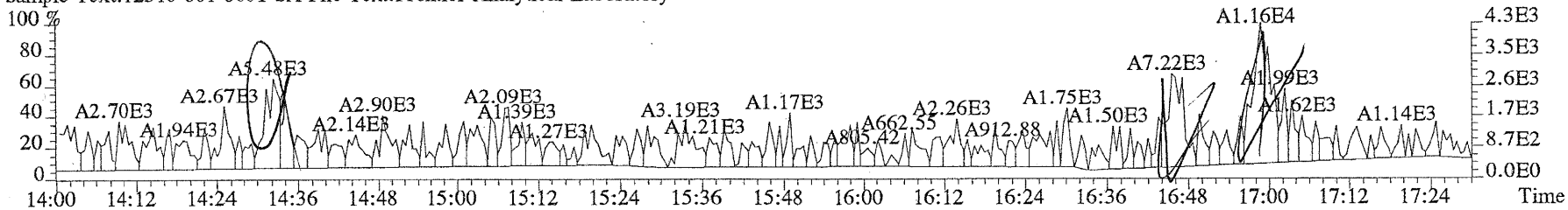
PCB-188	*	*	n	NotFnd	1.05	*	896	528	1.52	
13C-PCB-188	9.03e+07	1.05	y	39:42	1.18	9580				95.8
PCB-184	5.05e+07	1.04	y	40:08	1.20	5120	-	-	*	
PCB-179	*	*	n	NotFnd	1.13	*	896	528	1.35	
PCB-176	*	*	n	NotFnd	1.10	*	896	528	1.39	
PCB-186	*	*	n	NotFnd	1.11	*	896	528	1.37	
PCB-178	*	*	n	NotFnd	0.76	*	896	528	2.01	
PCB-175	*	*	n	NotFnd	0.77	*	896	528	1.98	
PCB-187	*	*	n	NotFnd	0.87	*	896	528	1.74	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.87	*	896	528	1.74	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.86	*	896	528	1.77	
PCB-185	*	*	n	NotFnd	0.77	*	896	528	1.97	
PCB-174	*	*	n	NotFnd	0.79	*	896	528	1.93	
PCB-181	*	*	n	NotFnd	0.78	*	896	528	1.95	
PCB-177	*	*	n	NotFnd	0.70	*	896	528	2.17	
PCB-171	*	*	n	NotFnd	0.77	*	896	528	1.98	
PCB-173	*	*	n	NotFnd	0.68	*	896	528	2.22	
PCB-172	6.72e+05	1.05	y	45:26	0.72	114	-	-	*	
PCB-192	3.26e+07	1.04	y	45:37	0.97	4100	-	-	*	
PCB-180	*	*	n	NotFnd	0.75	*	896	528	2.04	
PCB-193	*	*	n	NotFnd	1.05	*	896	528	1.45	
PCB-191	*	*	n	NotFnd	0.99	*	896	528	1.53	
PCB-170	*	*	n	NotFnd	0.71	*	896	528	2.13	
PCB-190	*	*	n	NotFnd	0.96	*	896	528	1.59	
PCB-189	*	*	n	NotFnd	1.00	*	896	528	1.44	
13C-PCB-189	7.37e+07	1.05	y	48:25	1.01	9130				91.3
PCB-202	*	*	n	NotFnd	1.02	*	208	636	1.26	
PCB-201	*	*	n	NotFnd	1.10	*	208	636	1.16	
PCB-204	7.58e+07	0.90	y	45:24	1.11	10200	-	-	*	
PCB-197	4.34e+05	0.83	y	45:41	1.15	56.7	-	-	*	
PCB-200	*	*	n	NotFnd	1.11	*	208	636	1.15	
PCB-198	*	*	n	NotFnd	0.78	*	208	636	1.65	
PCB-199	*	*	n	NotFnd	0.74	*	208	636	1.72	
PCB-203	*	*	n	NotFnd	0.83	*	208	636	1.54	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.83	*	208	636	1.54	Co-elute PCB 203
13C-PCB-202	6.68e+07	0.92	y	44:48	0.95	8820				88.2
13C-PCB-178	6.09e+07	1.05	y	42:20	0.80	9540				95.4
13C-PCB-138	8.01e+07	1.31	y	41:34	-	108				
PCB-195	*	*	n	NotFnd	0.78	*	608	1760	2.65	
PCB-194	*	*	n	NotFnd	0.86	*	608	1760	2.41	
PCB-205	*	*	n	NotFnd	1.09	*	608	1760	1.90	
13C-PCB-205	8.45e+07	0.90	y	50:04	1.29	9210				92.1
PCB-208	*	*	n	NotFnd	1.05	*	588	566	1.11	
13C-PCB-208	7.65e+07	0.81	y	49:09	1.15	9310				93.1
PCB-207	3.16e+05	1.25	y	49:27	1.23	39.0	-	-	*	
PCB-206	*	*	n	NotFnd	1.08	*	588	566	1.60	
13C-PCB-206	5.47e+07	0.80	y	51:18	0.88	8750				87.5
PCB-209	3.40e+05	1.23	y	52:29	1.13	43.4	-	-	*	
13C-PCB-209	6.91e+07	1.19	y	52:28	1.08	8990				89.9
13C-PCB-194	7.12e+07	0.92	y	49:50	-	99.1				

Analyst: _____ Date: 8/1/19

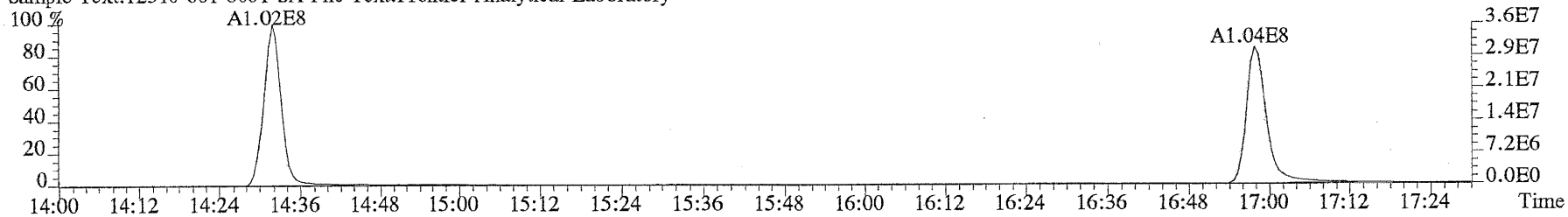
File:31JUL19Z #1-783 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



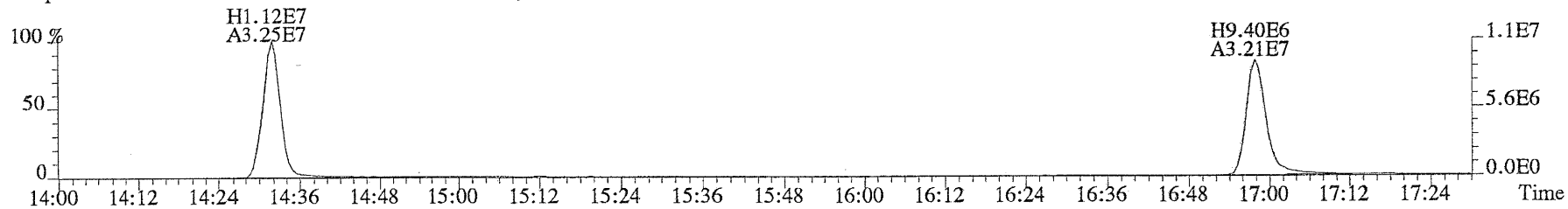
File:31JUL19Z #1-783 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



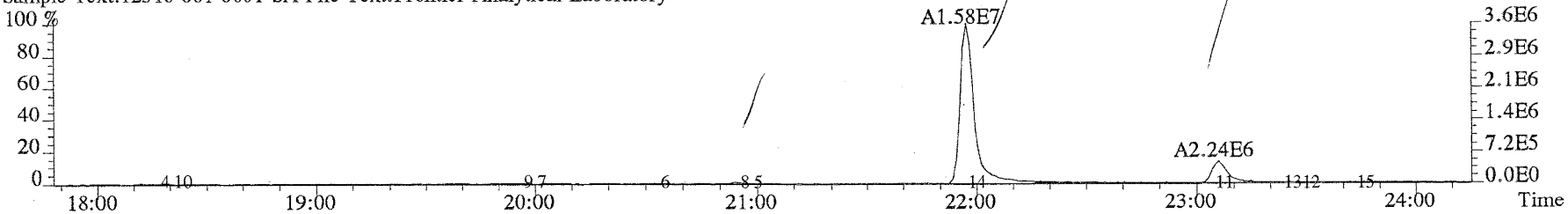
File:31JUL19Z #1-783 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



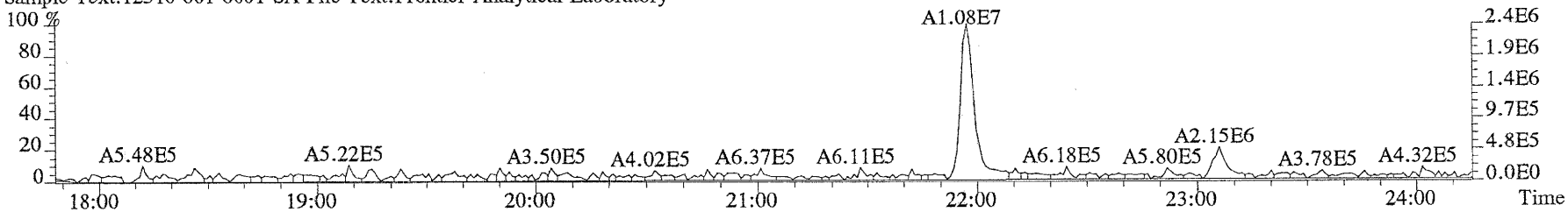
File:31JUL19Z #1-783 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



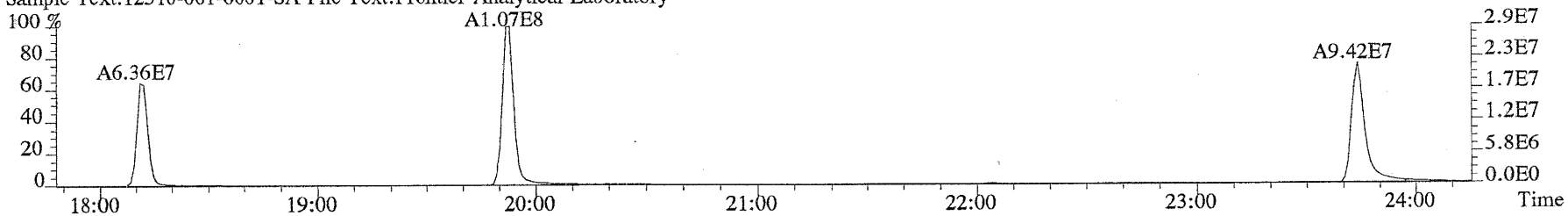
File:31JUL19Z #1-521 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



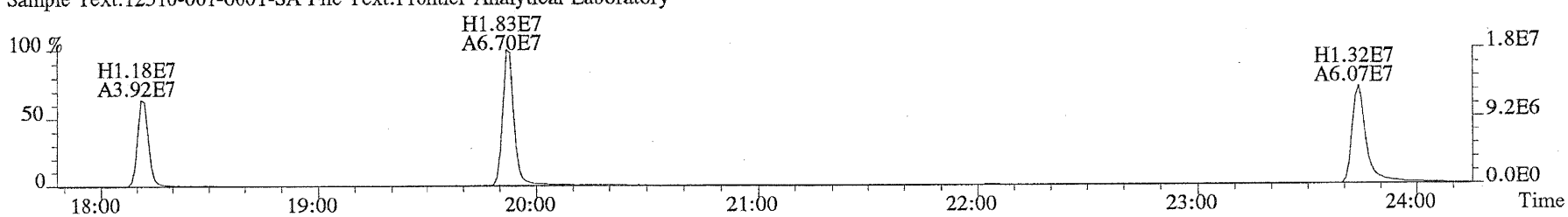
File:31JUL19Z #1-521 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



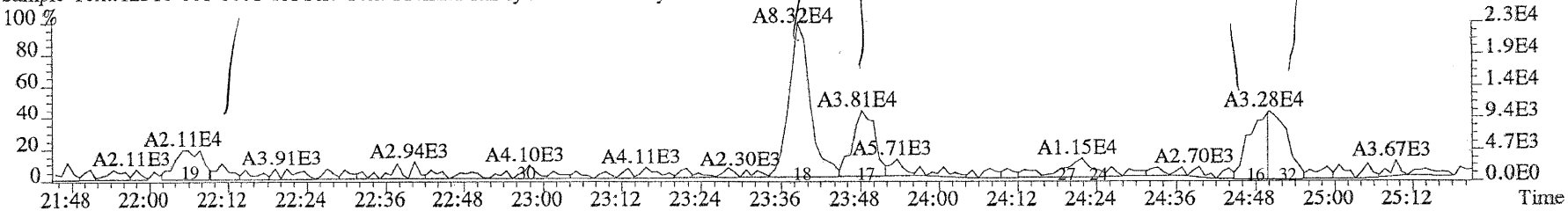
File:31JUL19Z #1-521 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



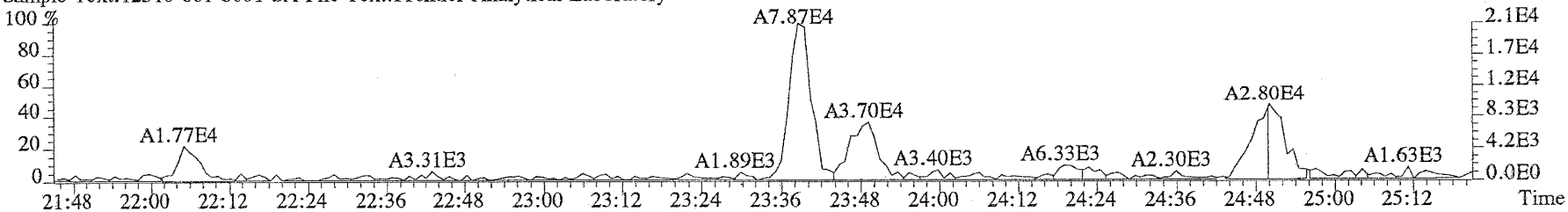
File:31JUL19Z #1-521 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



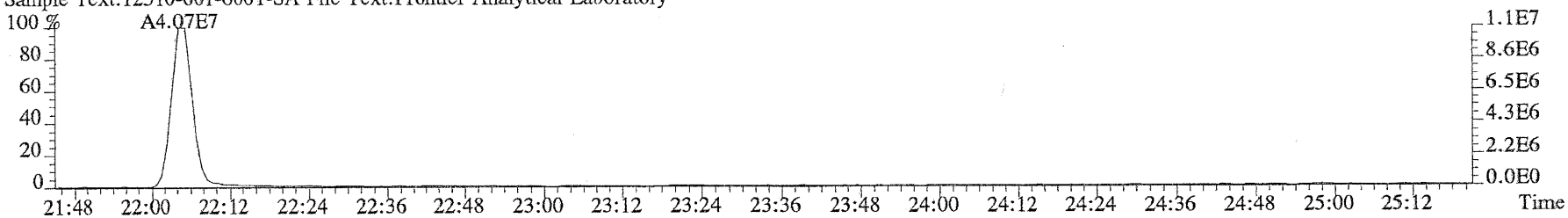
File:31JUL19Z #1-521 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



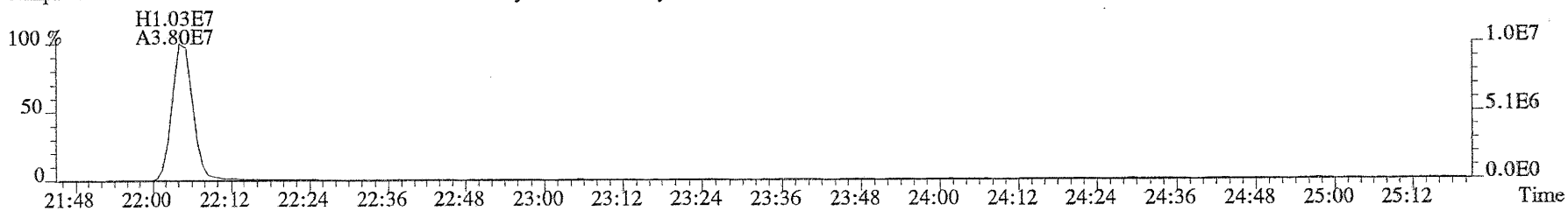
File:31JUL19Z #1-521 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



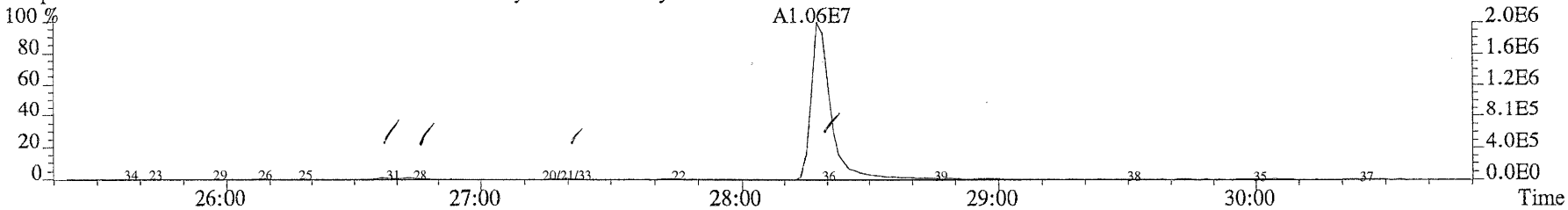
File:31JUL19Z #1-521 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



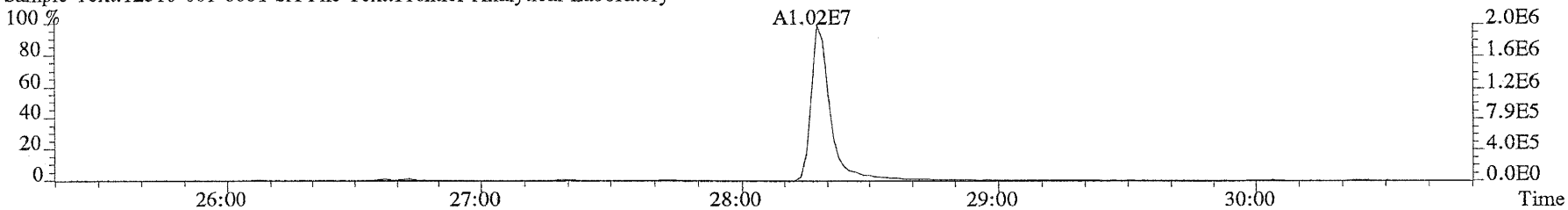
File:31JUL19Z #1-521 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



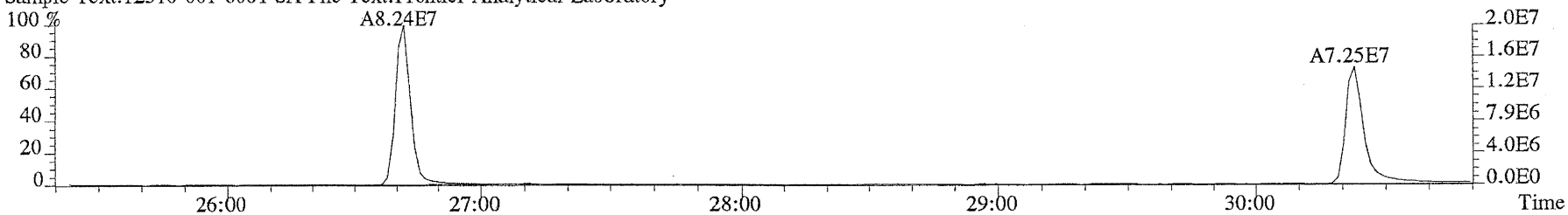
File:31JUL19Z #1-401 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



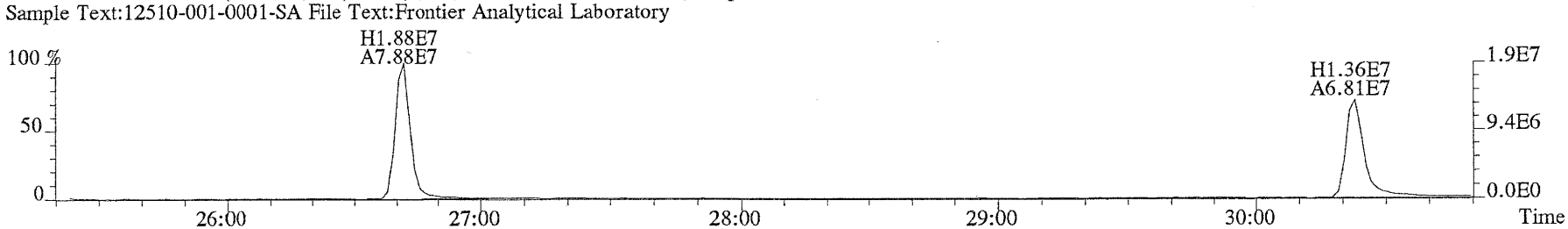
File:31JUL19Z #1-401 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



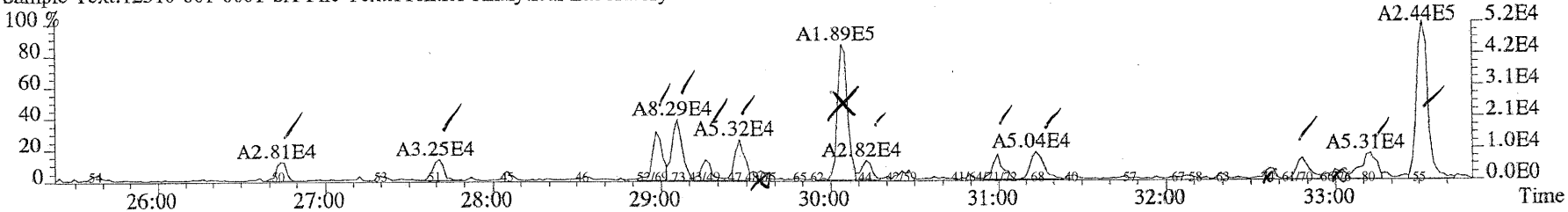
File:31JUL19Z #1-401 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



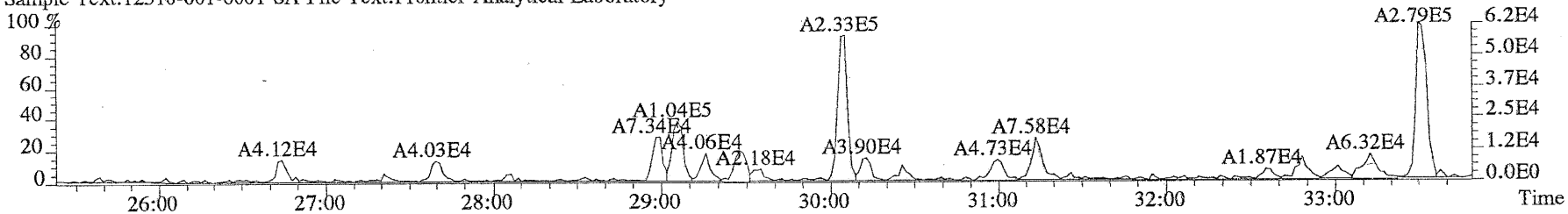
File:31JUL19Z #1-401 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



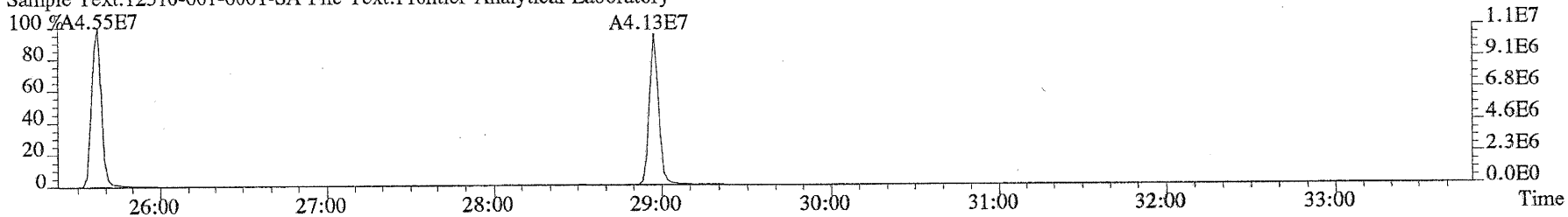
File:31JUL19Z #1-401 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



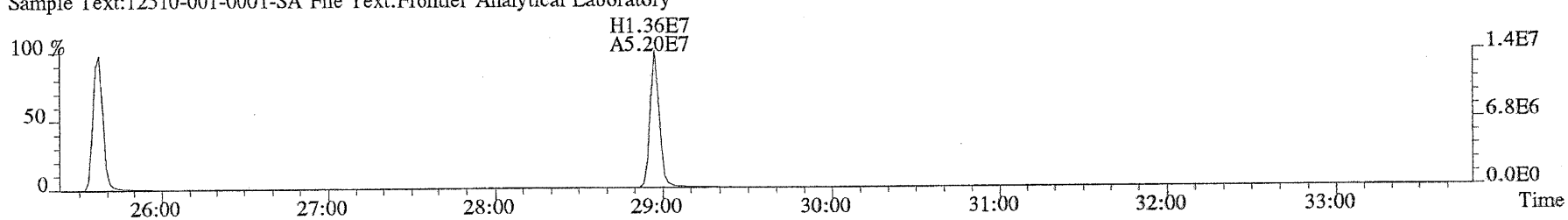
File:31JUL19Z #1-401 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



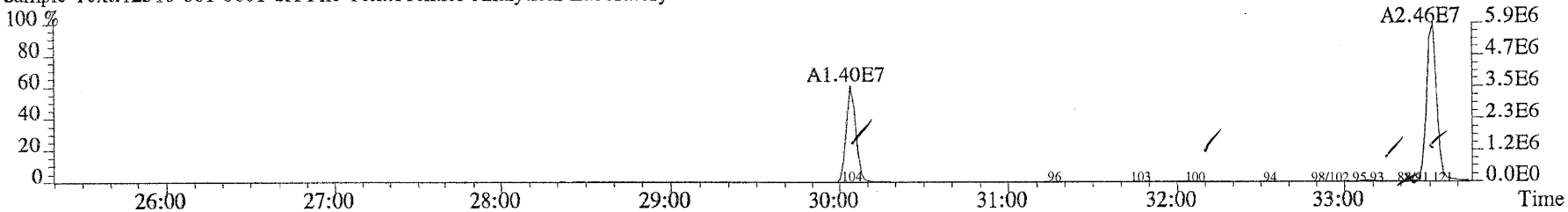
File:31JUL19Z #1-401 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



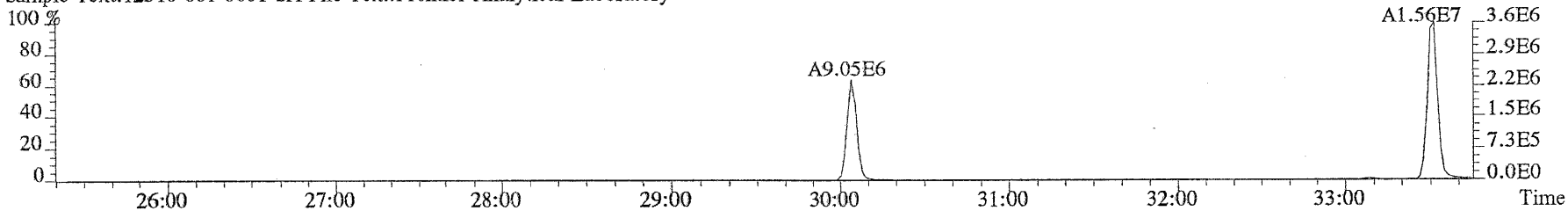
File:31JUL19Z #1-401 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



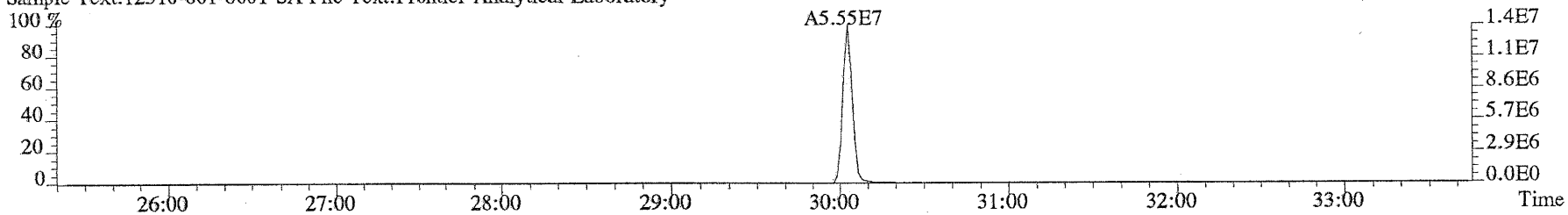
File:31JUL19Z #1-401 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



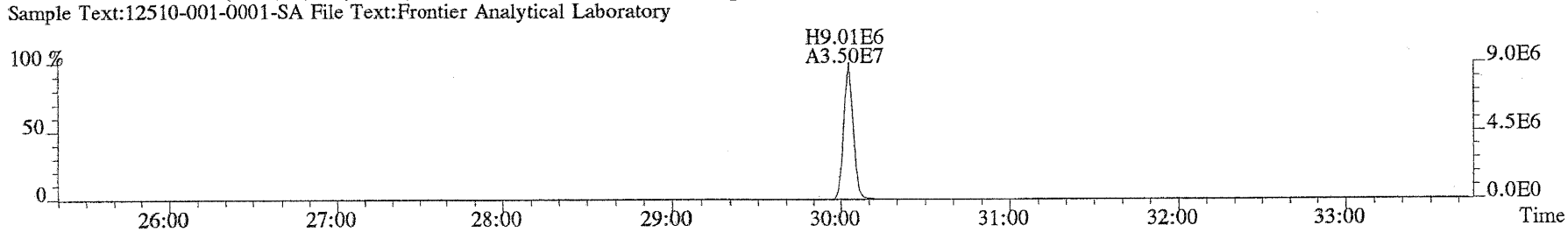
File:31JUL19Z #1-401 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



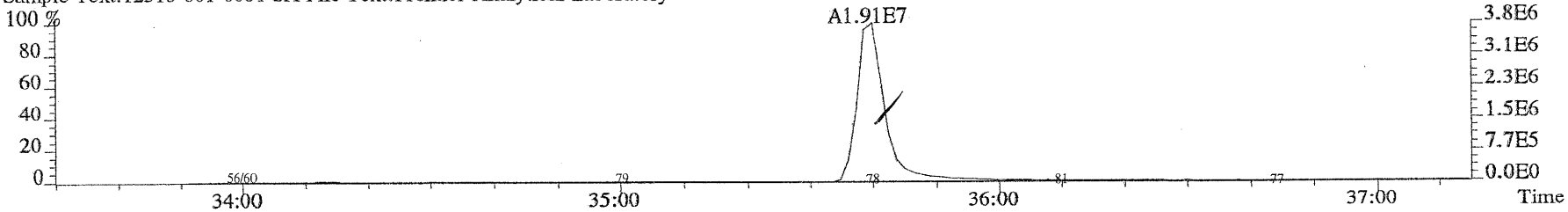
File:31JUL19Z #1-401 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



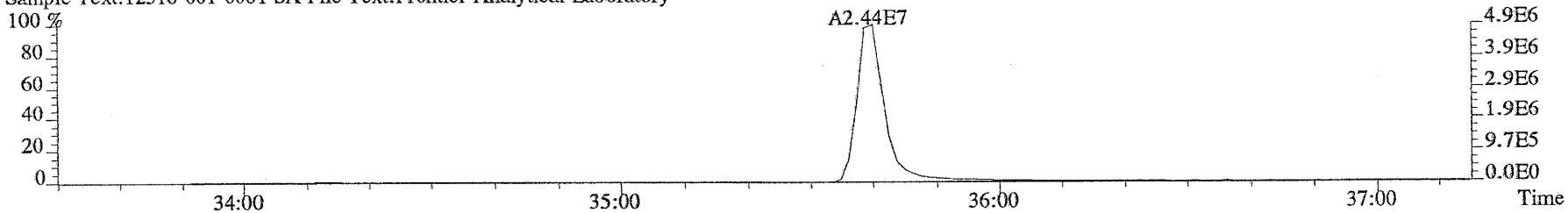
File:31JUL19Z #1-401 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



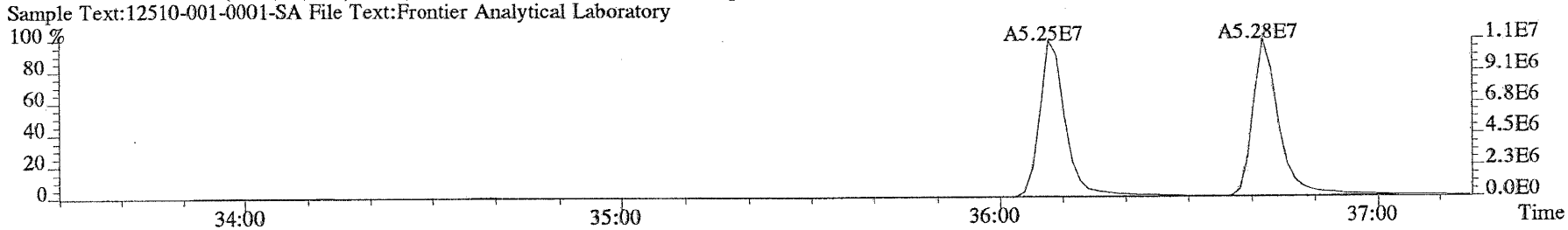
File:31JUL19Z #1-180 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



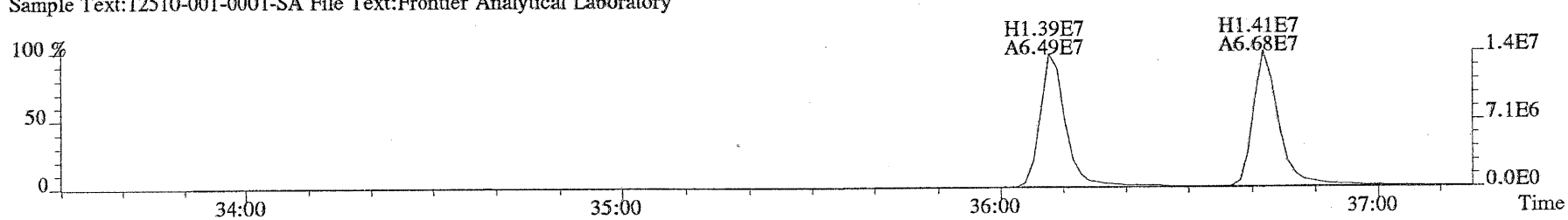
File:31JUL19Z #1-180 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



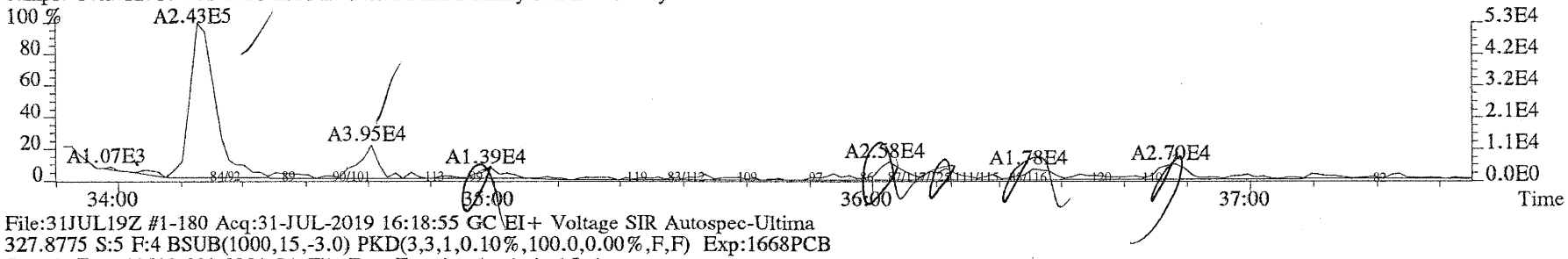
File:31JUL19Z #1-180 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



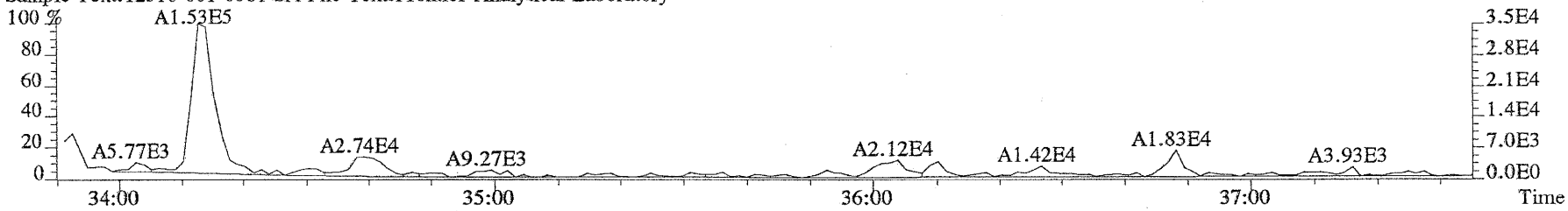
File:31JUL19Z #1-180 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



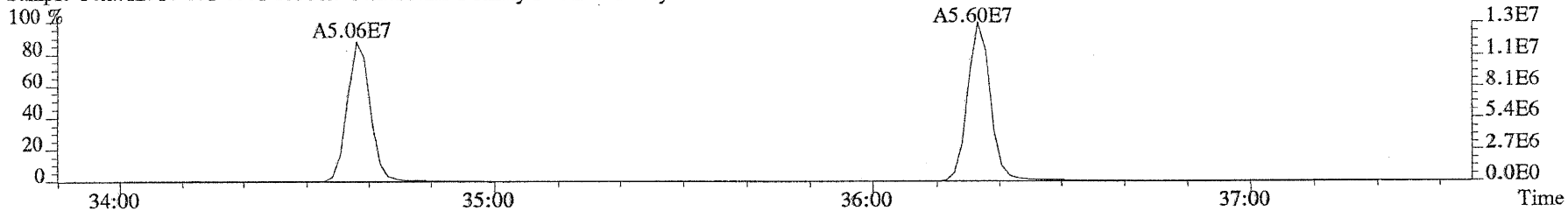
File:31JUL19Z #1-180 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



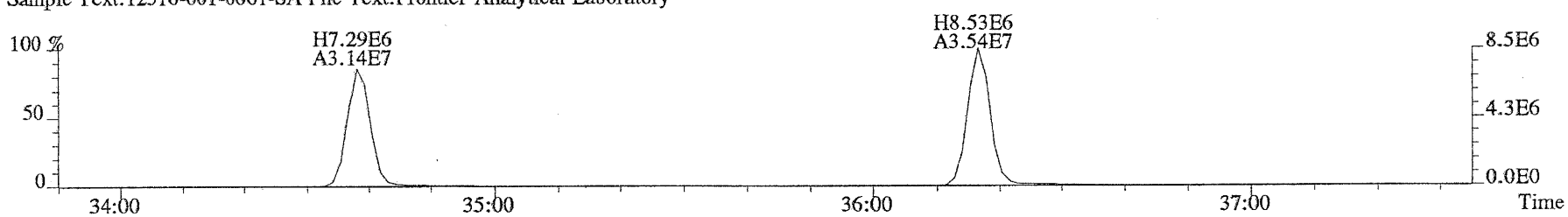
File:31JUL19Z #1-180 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



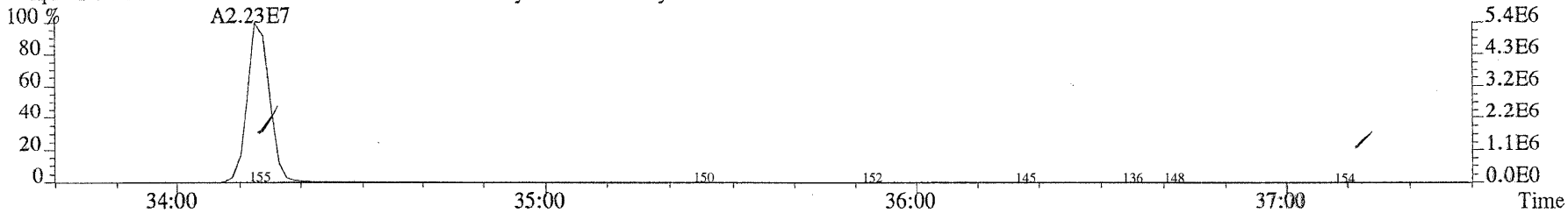
File:31JUL19Z #1-180 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



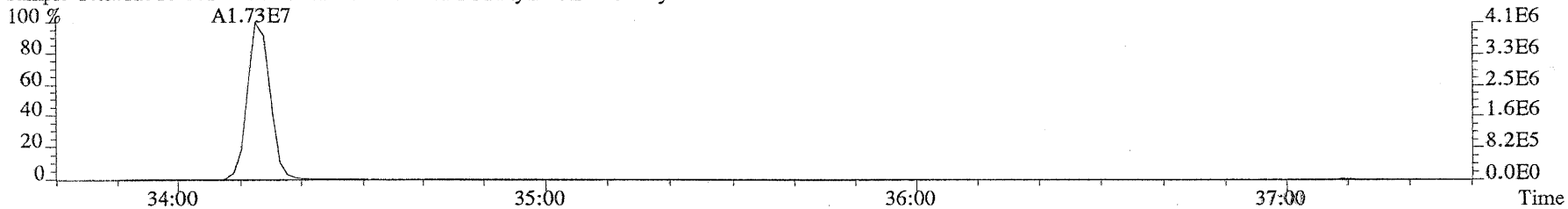
File:31JUL19Z #1-180 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



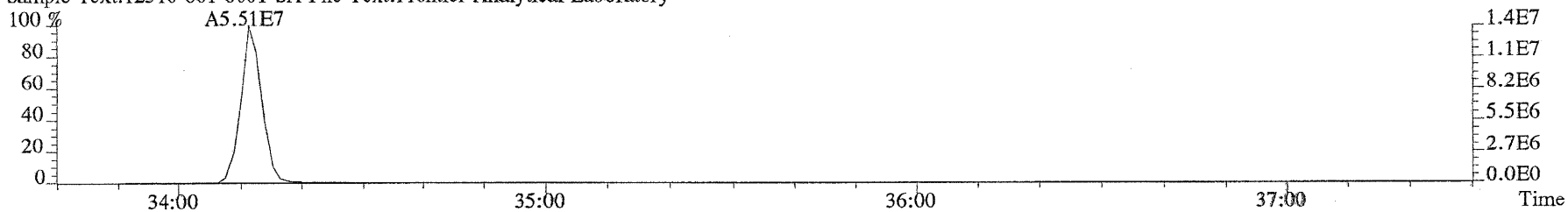
File:31JUL19Z #1-180 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



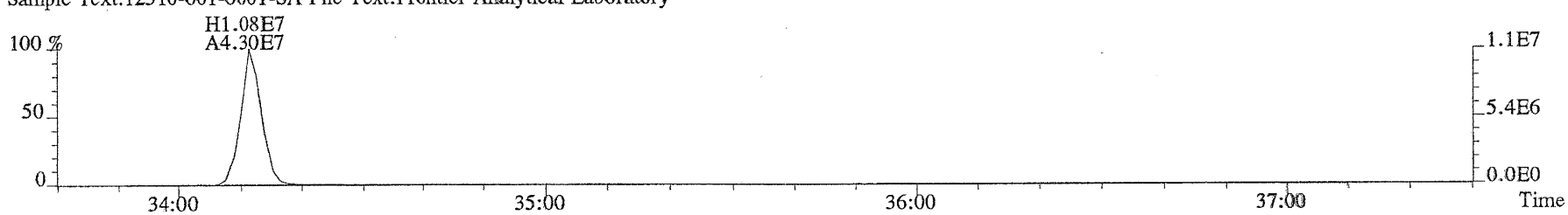
File:31JUL19Z #1-180 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



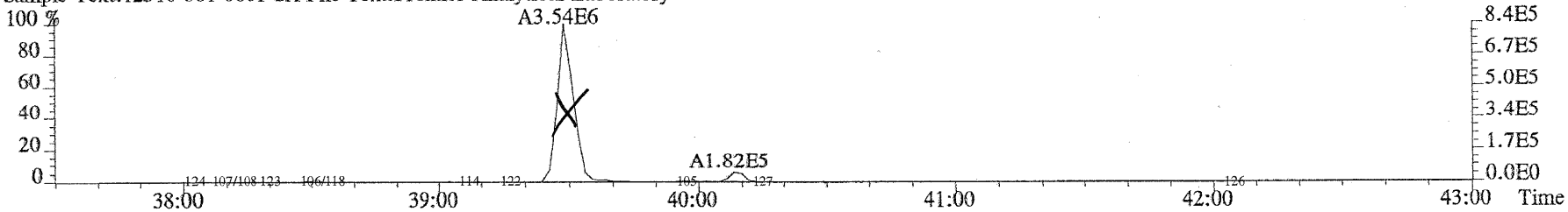
File:31JUL19Z #1-180 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



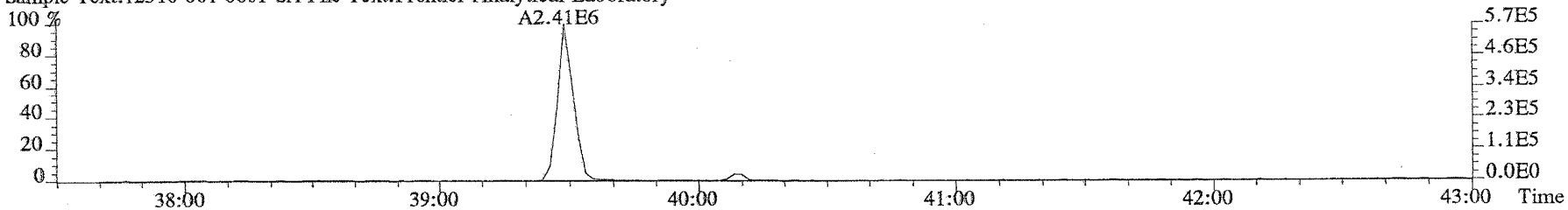
File:31JUL19Z #1-180 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



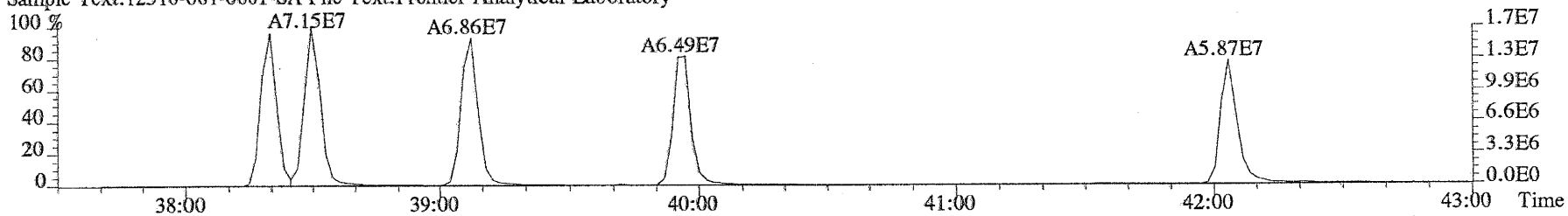
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



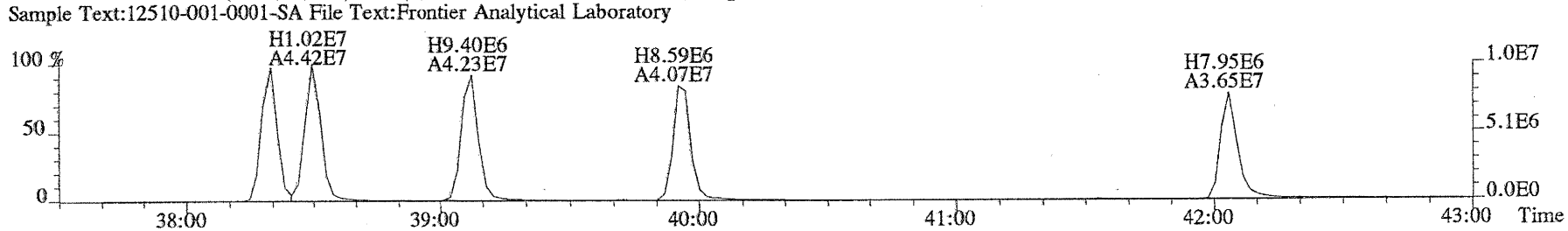
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



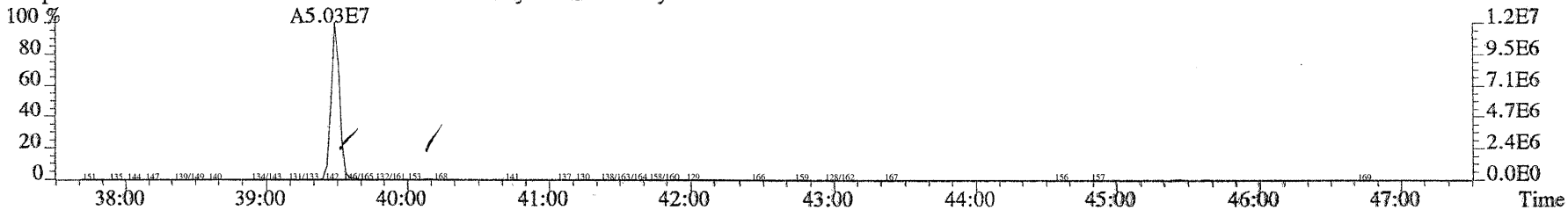
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



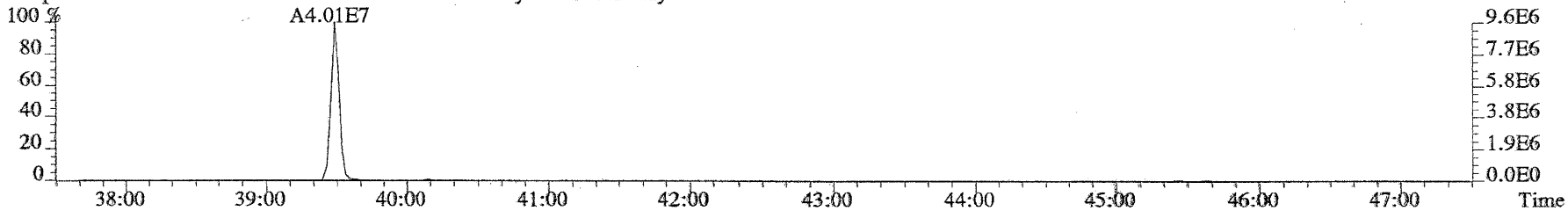
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



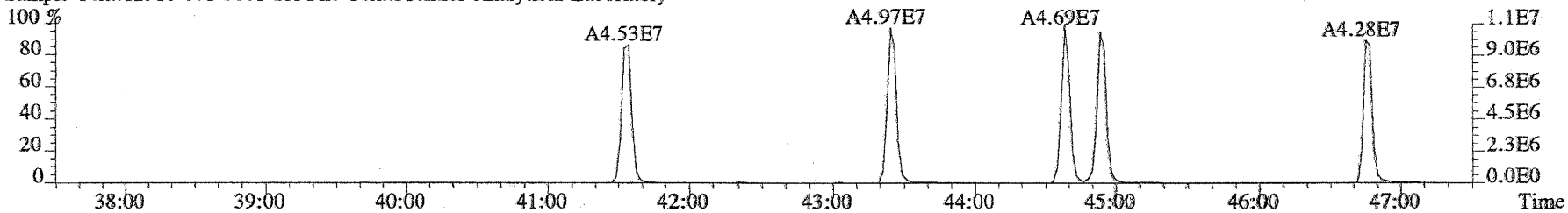
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



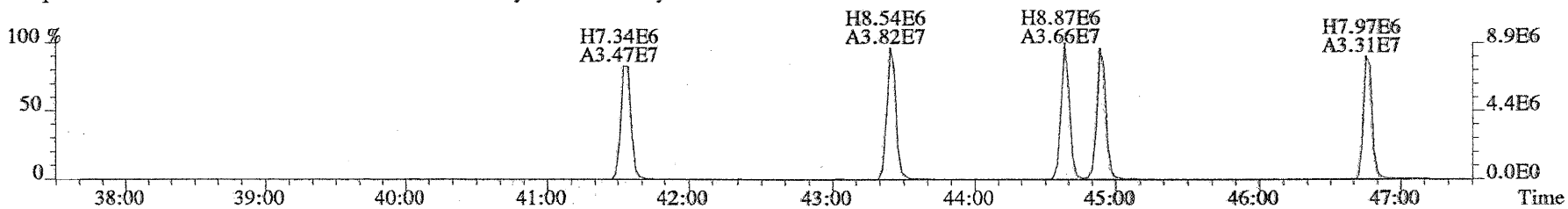
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



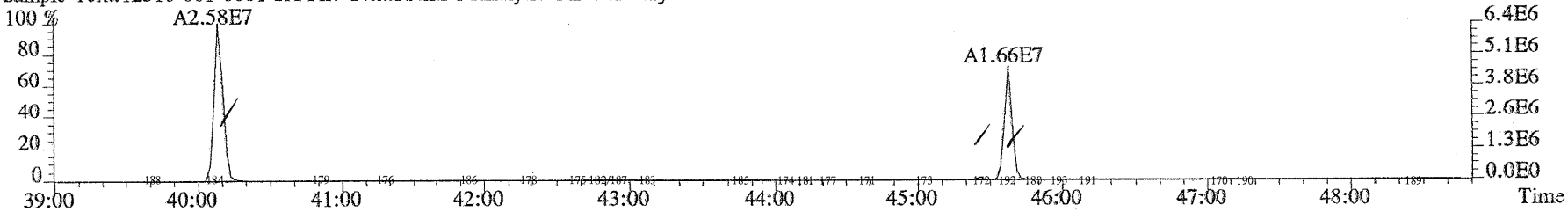
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



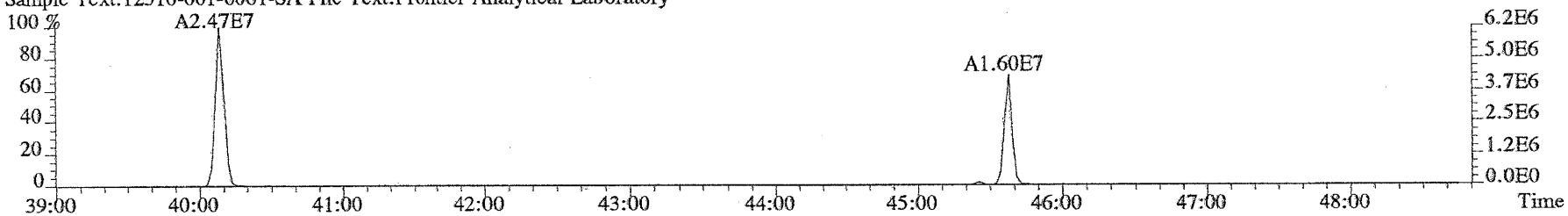
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



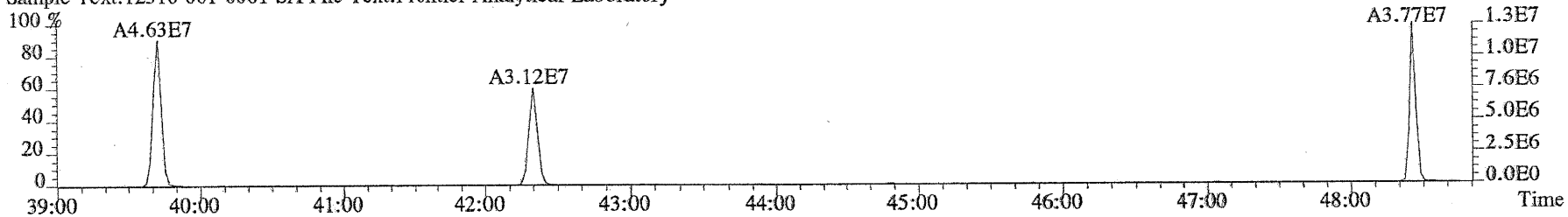
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



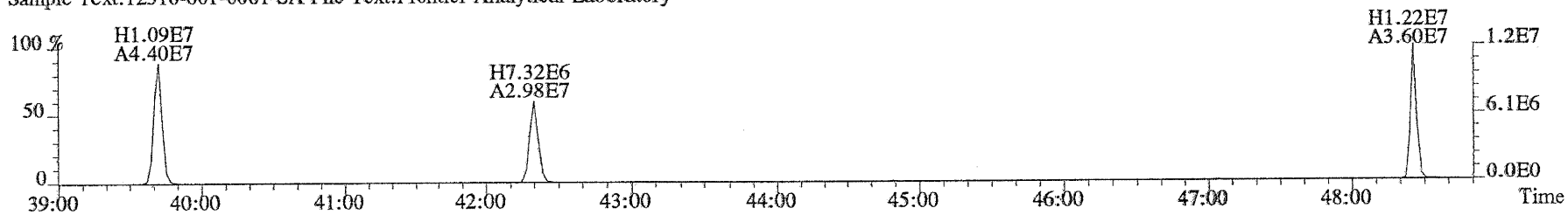
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



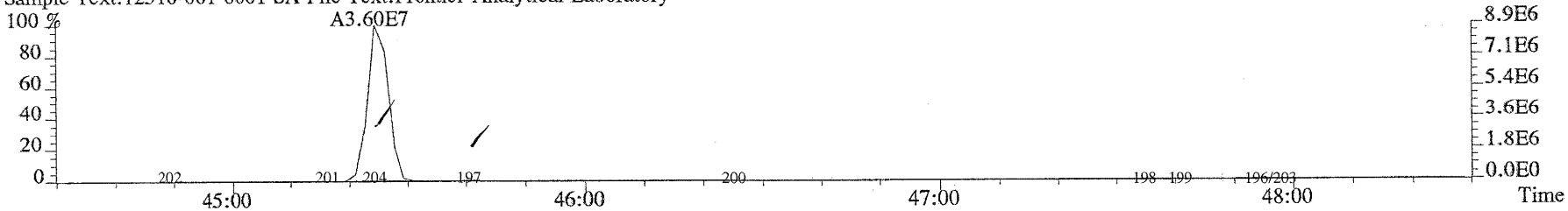
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



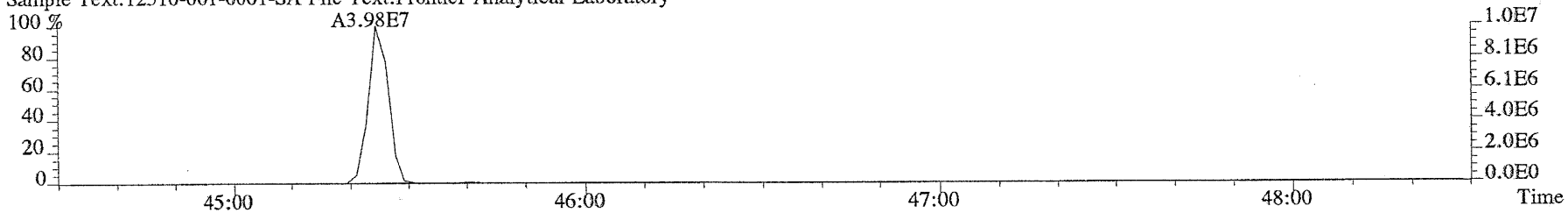
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



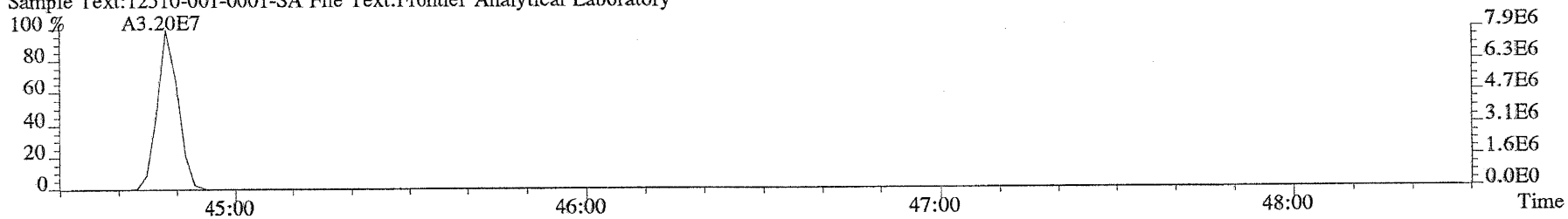
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



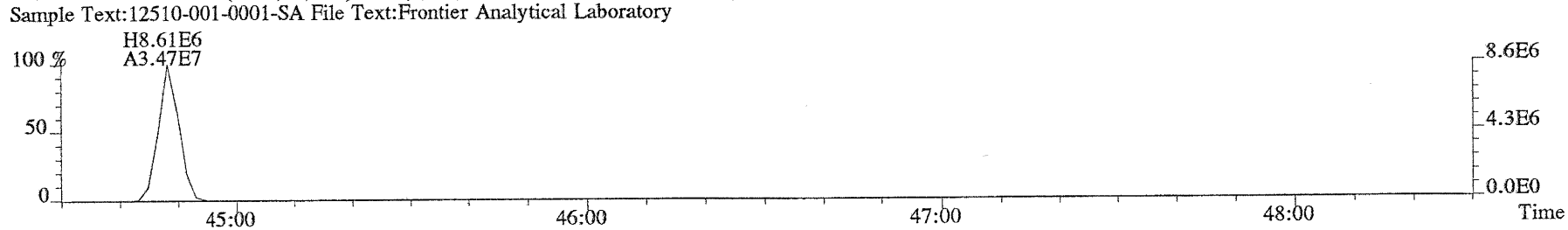
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



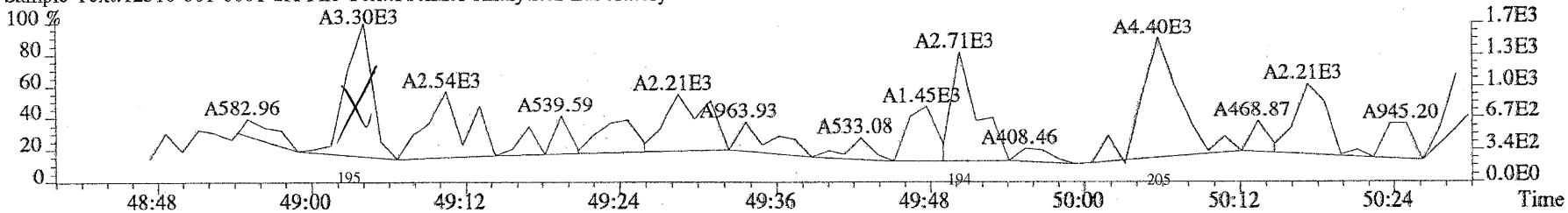
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



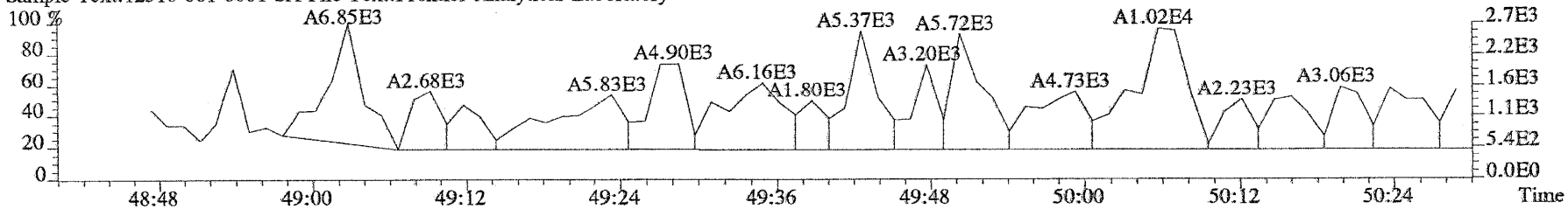
File:31JUL19Z #1-405 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



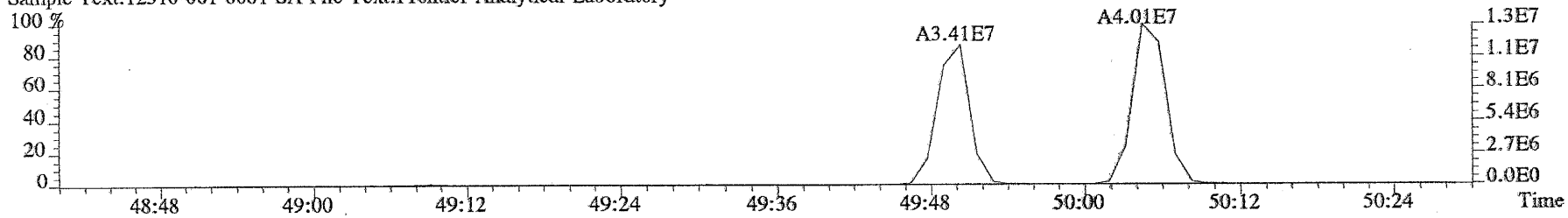
File:31JUL19Z #1-315 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



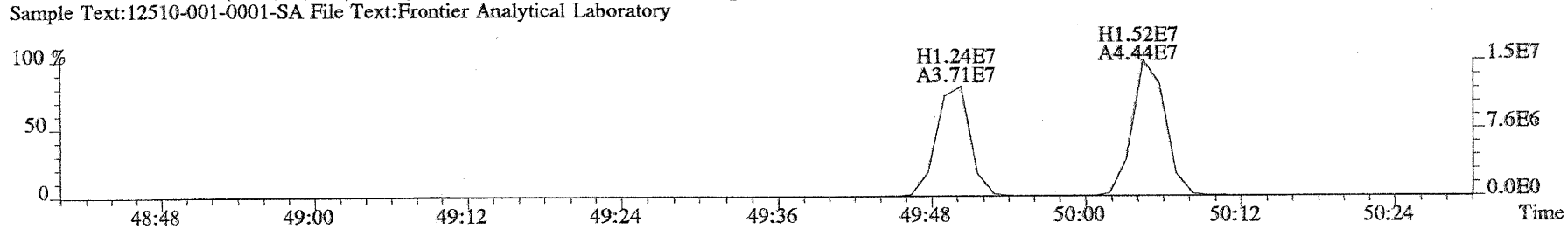
File:31JUL19Z #1-315 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



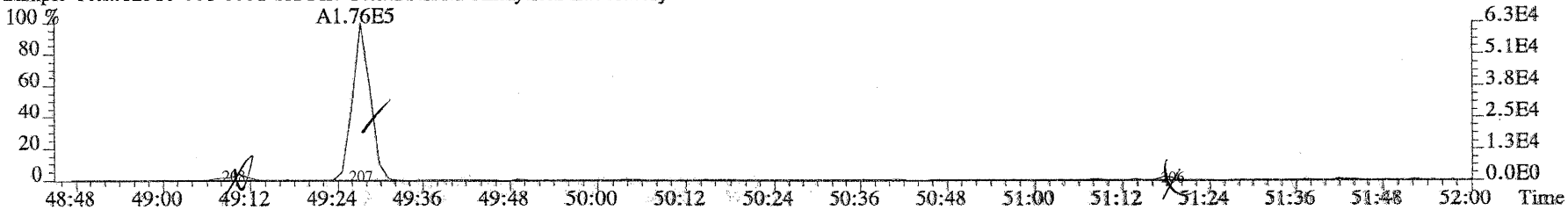
File:31JUL19Z #1-315 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



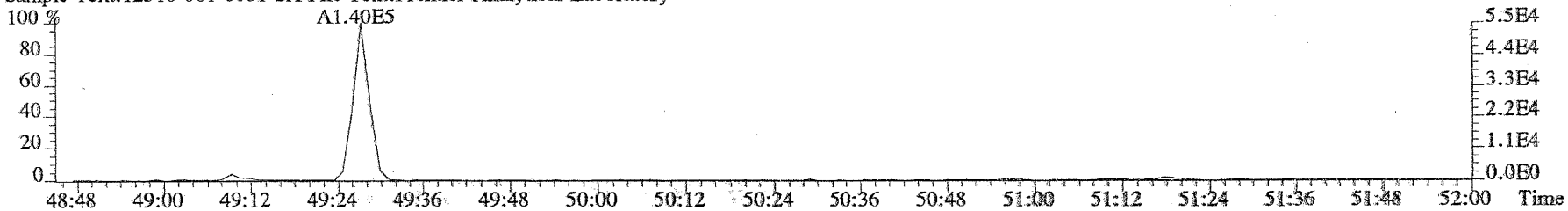
File:31JUL19Z #1-315 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



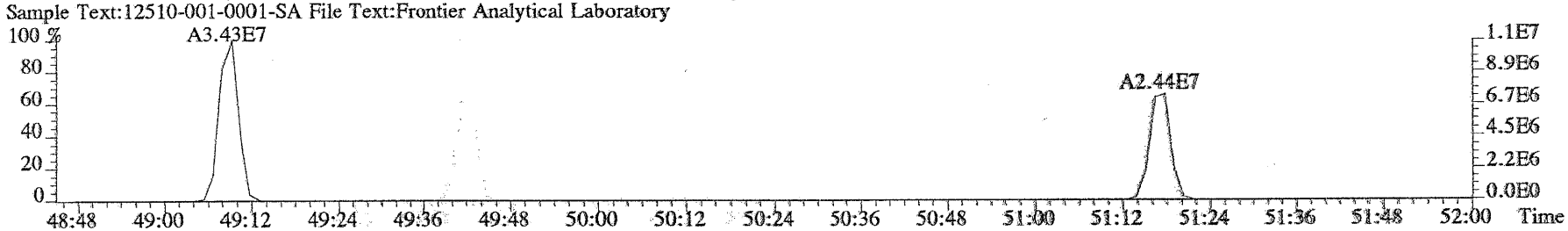
File:31JUL19Z #1-315 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



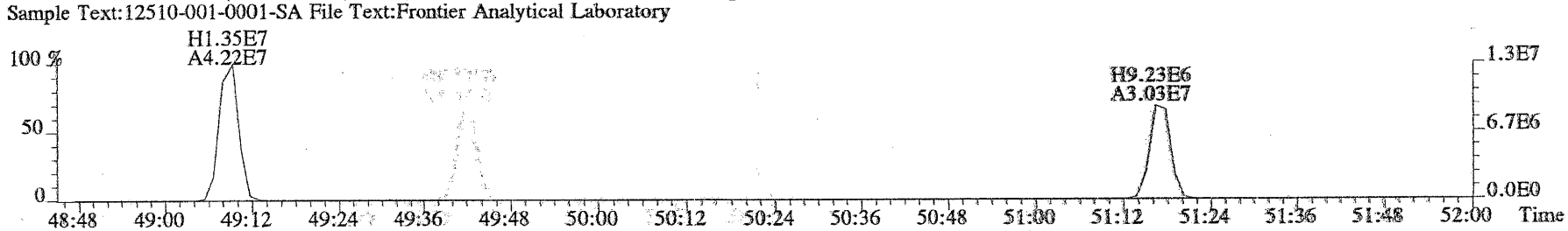
File:31JUL19Z #1-315 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



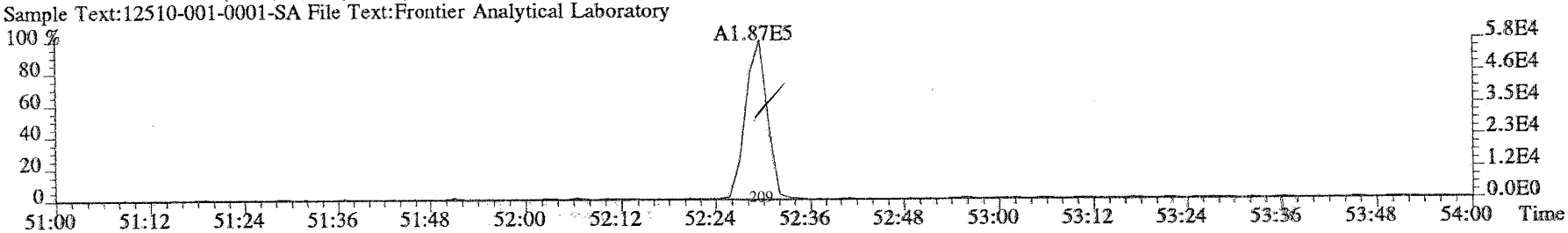
File:31JUL19Z #1-315 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



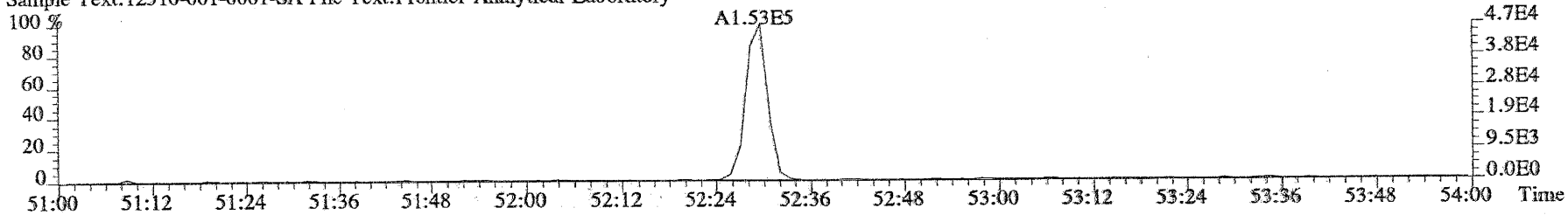
File:31JUL19Z #1-315 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



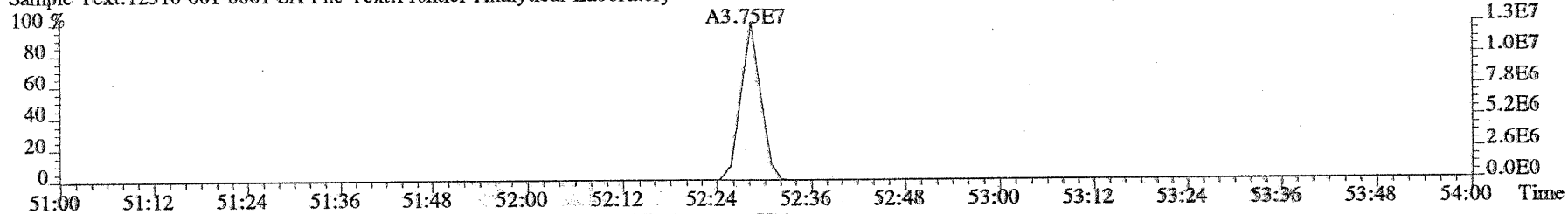
File:31JUL19Z #1-315 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



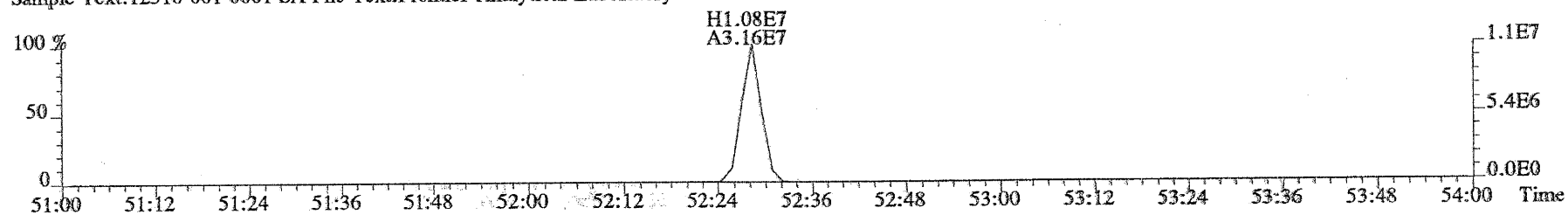
File:31JUL19Z #1-315 Acq:31-JUL-2019 16:18:55 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-001-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 16:18:55 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:12510-001-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 16:18:55 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:12510-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12510-002-0001-SA Filename: 31JUL19Z Sam:6 Acquired: 31-JUL-19 17:17:16 ICal: DAILY209FAL4-7-31-19
Client ID: LDW-Y2-SU-S010-TB ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.20	*		2000	1820	1.35	
13C-PCB-1	1.74e+08	3.16	y	14:32	0.94	8410					84.1
PCB-2	*	*	n	NotFnd	1.19	*		2000	1820	1.51	
PCB-3	*	*	n	NotFnd	1.22	*		2000	1820	1.63	
13C-PCB-3	1.66e+08	3.17	y	16:58	0.88	8540					85.4
PCB-4	*	*	n	NotFnd	1.16	*		1220	9870	6.00	
PCB-10	*	*	n	NotFnd	1.41	*		1220	9870	4.93	
13C-PCB-4	1.26e+08	1.60	y	18:11	0.67	8500					85.0
PCB-9	*	*	n	NotFnd	1.44	*		1220	9870	4.82	
PCB-7	*	*	n	NotFnd	1.43	*		1220	9870	4.88	
PCB-6	*	*	n	NotFnd	1.49	*		1220	9870	4.67	
PCB-8	*	*	n	NotFnd	1.36	*		1220	9870	5.13	
PCB-5	*	*	n	NotFnd	1.45	*		1220	9870	4.79	
PCB-14	2.81e+07	1.48	y	21:56	1.36	1330		-	-	*	
PCB-11	1.04e+06	1.43	y	23:06	1.24	54.2		-	-	*	
PCB-13	*	*	n	NotFnd	1.24	*		1220	9870	5.59	
PCB-12	*	*	n	NotFnd	1.28	*		1220	9870	5.43	
PCB-15	*	*	n	NotFnd	1.16	*		1220	9870	6.03	
13C-PCB-15	1.84e+08	1.64	y	23:43	0.91	9140					91.4
PCB-19	*	*	n	NotFnd	1.16	*		1920	2100	3.30	
PCB-30	*	*	n	NotFnd	1.70	*		1920	2100	2.26	
PCB-18	7.01e+04	1.16	y	23:39	1.12	6.72	J	-	-	*	
PCB-17	*	*	n	NotFnd	1.27	*		1920	2100	3.03	
PCB-27	*	*	n	NotFnd	1.62	*		1920	2100	2.38	
PCB-24	*	*	n	NotFnd	1.68	*		1920	2100	2.29	
PCB-16	*	*	n	NotFnd	1.38	*		1920	2100	2.79	
PCB-32	*	*	n	NotFnd	1.46	*		1920	2100	2.63	
13C-PCB-19	9.29e+07	1.08	y	22:04	0.49	8560					85.6
13C-PCB-9	2.21e+08	1.60	y	19:52	-	130					
PCB-34	*	*	n	NotFnd	1.23	*		2940	1620	2.84	
PCB-23	*	*	n	NotFnd	1.39	*		2940	1620	2.52	
PCB-29	*	*	n	NotFnd	1.33	*		2940	1620	2.63	
PCB-26	*	*	n	NotFnd	1.26	*		2940	1620	2.78	
PCB-25	*	*	n	NotFnd	1.26	*		2940	1620	2.79	
PCB-31	*	*	n	NotFnd	1.19	*		2940	1620	2.94	
PCB-28	*	*	n	NotFnd	1.60	*		2940	1620	2.19	
PCB-20	*	*	n	NotFnd	1.25	*		2940	1620	2.81	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.25	*		2940	1620	2.81	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.25	*		2940	1620	2.81	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.40	*		2940	1620	2.50	
PCB-36	2.18e+07	1.03	y	28:18	1.24	1080		-	-	*	
PCB-39	*	*	n	NotFnd	1.25	*		2940	1620	2.80	
PCB-38	*	*	n	NotFnd	1.27	*		2940	1620	2.76	
PCB-35	*	*	n	NotFnd	1.14	*		2940	1620	3.07	
PCB-37	*	*	n	NotFnd	1.21	*		2940	1620	2.90	
13C-PCB-37	1.63e+08	1.08	y	30:22	1.51	8930					89.3

PCB-54	*	*	n	NotFnd	1.24	*		1230	1560	1.87	
PCB-50	8.36e+04	0.83	y	26:43	0.93	7.90	J	-	-	*	
PCB-53	*	*	n	NotFnd	0.90	*		1230	1560	2.57	
PCB-51	5.12e+04	0.68	y	27:39	0.96	4.69	J	-	-	*	
PCB-45	*	*	n	NotFnd	0.79	*		1230	1560	2.95	
PCB-46	*	*	n	NotFnd	0.74	*		1230	1560	3.12	
PCB-52	7.59e+04	0.87	y	28:59	0.92	7.24	J	-	-	*	Co-elute PCB 69
PCB-69	7.59e+04	0.87	y	28:59	0.92	7.24	J	-	-	*	Co-elute PCB 52
PCB-73	2.05e+05	0.84	y	29:05	1.13	16.0	J	-	-	*	
PCB-43	4.47e+04	0.83	y	29:15	0.82	4.83	J	-	-	*	Co-elute PCB 49
PCB-49	4.47e+04	0.83	y	29:15	0.82	4.83	J	-	-	*	Co-elute PCB 43
PCB-47	6.21e+04	0.69	y	29:28	0.81	6.74	J	-	-	*	
PCB-48	*	*	n	NotFnd	1.07	*		1230	1560	2.16	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	1.07	*		1230	1560	2.16	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*		1230	1560	2.22	
PCB-62	*	*	n	NotFnd	1.06	*		1230	1560	2.20	
PCB-44	*	*	n	NotFnd	0.69	*		1230	1560	3.35	
PCB-42	*	*	n	NotFnd	0.90	*		1230	1560	2.58	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.90	*		1230	1560	2.58	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	1.02	*		1230	1560	2.28	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	1.02	*		1230	1560	2.28	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	1.02	*		1230	1560	2.28	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	1.02	*		1230	1560	2.28	Co-elute PCB 72/41/71
PCB-68	1.37e+05	0.79	y	31:13	1.17	10.4	J	-	-	*	
PCB-40	*	*	n	NotFnd	0.65	*		1230	1560	3.55	
PCB-57	*	*	n	NotFnd	1.07	*		1230	1560	2.16	
PCB-67	*	*	n	NotFnd	1.03	*		1230	1560	2.26	
PCB-58	*	*	n	NotFnd	1.14	*		1230	1560	2.03	
PCB-63	*	*	n	NotFnd	1.07	*		1230	1560	2.17	
PCB-74	*	*	n	NotFnd	1.06	*		1230	1560	2.19	
PCB-61	*	*	n	NotFnd	1.00	*		1230	1560	2.32	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.00	*		1230	1560	2.32	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.11	*		1230	1560	2.08	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.11	*		1230	1560	2.08	Co-elute PCB 76
PCB-80	1.45e+05	0.77	y	33:11	1.29	9.84	J	-	-	*	
PCB-55	5.95e+05	0.87	y	33:30	1.13	46.4		-	-	*	
13C-PCB-54	1.13e+08	0.84	y	25:36	1.34	7000					70.0
PCB-104	2.96e+07	1.57	y	30:03	1.09	2580		-	-	*	
PCB-96	*	*	n	NotFnd	1.05	*		840	840	1.52	
PCB-103	*	*	n	NotFnd	0.84	*		840	840	1.91	
PCB-100	*	*	n	NotFnd	0.85	*		840	840	1.88	
PCB-94	*	*	n	NotFnd	0.70	*		840	840	2.29	
PCB-98	*	*	n	NotFnd	0.70	*		840	840	2.28	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.70	*		840	840	2.28	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.77	*		840	840	2.08	
PCB-93	4.41e+05	1.48	y	33:08	0.76	55.4		-	-	*	
PCB-88	*	*	n	NotFnd	0.78	*		840	840	2.03	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.78	*		840	840	2.03	Co-elute PCB 88
PCB-121	4.59e+07	1.59	y	33:30	0.97	4540		-	-	*	
13C-PCB-104	1.05e+08	1.59	y	30:02	1.08	8020					80.2
13C-PCB-28	1.88e+08	1.06	y	26:41	1.80	8620					86.2
13C-PCB-52	1.21e+08	0.81	y	28:56	-	149					

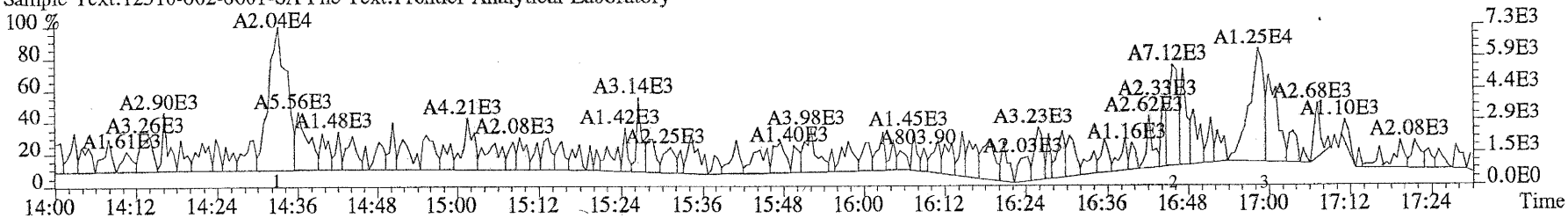
PCB-56	*	*	n	NotFnd	1.15	*		2180	2260	3.47	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.15	*		2180	2260	3.47	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.22	*		2180	2260	3.27	
PCB-78	4.85e+07	0.79	y	35:39	1.19	2920		-	-	*	
PCB-81	*	*	n	NotFnd	1.25	*		2180	2260	3.15	
13C-PCB-81	1.38e+08	0.80	y	36:07	1.49	9420					94.2
PCB-77	*	*	n	NotFnd	1.08	*		2180	2260	3.76	
13C-PCB-77	1.40e+08	0.79	y	36:41	1.57	9140					91.4
PCB-155	4.68e+07	1.29	y	34:12	1.04	4190		-	-	*	
PCB-150	*	*	n	NotFnd	0.98	*		684	576	1.32	
PCB-152	*	*	n	NotFnd	0.95	*		684	576	1.35	
PCB-145	*	*	n	NotFnd	0.97	*		684	576	1.32	
PCB-136	*	*	n	NotFnd	0.95	*		684	576	1.35	
PCB-148	*	*	n	NotFnd	0.70	*		684	576	1.85	
PCB-154	1.12e+05	1.18	y	37:09	0.81	12.9	J	-	-	*	
13C-PCB-155	1.08e+08	1.33	y	34:12	1.37	8020					80.2
13C-PCB-111	1.04e+08	1.62	y	36:16	1.21	8760					87.6
13C-PCB-101	9.81e+07	1.60	y	34:37	-	139					
PCB-84	3.99e+05	1.76	y	34:12	0.77	41.5		-	-	*	Co-elute PCB 92
PCB-92	3.99e+05	1.76	y	34:12	0.77	41.5		-	-	*	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.76	*		1800	1520	3.90	
PCB-90	*	*	n	NotFnd	0.82	*		1800	1520	3.61	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.82	*		1800	1520	3.61	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.92	*		1800	1520	3.23	
PCB-99	*	*	n	NotFnd	0.91	*		1800	1520	3.26	
PCB-119	*	*	n	NotFnd	1.01	*		1800	1520	2.93	
PCB-83	*	*	n	NotFnd	0.82	*		1800	1520	3.59	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.82	*		1800	1520	3.59	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.00	*		1800	1520	2.97	
PCB-97	*	*	n	NotFnd	0.69	*		1800	1520	4.30	
PCB-86	*	*	n	NotFnd	0.72	*		1800	1520	4.13	
PCB-125	*	*	n	NotFnd	0.90	*		1800	1520	3.29	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.90	*		1800	1520	3.29	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.90	*		1800	1520	3.29	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.01	*		1800	1520	2.92	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.01	*		1800	1520	2.92	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.91	*		1800	1520	3.27	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.91	*		1800	1520	3.27	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.04	*		1800	1520	2.83	
PCB-110	*	*	n	NotFnd	1.03	*		1800	1520	2.88	
PCB-82	*	*	n	NotFnd	0.60	*		1800	1520	4.89	
PCB-124	*	*	n	NotFnd	1.21	*		816	1200	1.48	
PCB-108	*	*	n	NotFnd	1.14	*		816	1200	1.57	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.14	*		816	1200	1.57	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.04	*		816	1200	1.65	
13C-PCB-123	1.19e+08	1.57	y	38:18	1.28	9040					90.4
PCB-118	*	*	n	NotFnd	1.10	*		816	1200	1.75	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.10	*		816	1200	1.75	Co-elute PCB 118
13C-PCB-118	1.32e+08	1.61	y	38:30	1.39	9190					91.9
PCB-114	*	*	n	NotFnd	1.23	*		816	1200	1.39	
13C-PCB-114	1.27e+08	1.60	y	39:06	1.31	9370					93.7
PCB-122	*	*	n	NotFnd	1.12	*		816	1200	1.60	
PCB-105	*	*	n	NotFnd	1.19	*		816	1200	1.51	
13C-PCB-105	1.24e+08	1.57	y	39:56	1.32	9070					90.7

PCB-127	*	*	n	NotFnd	1.09	*	816	1200	1.65	
PCB-126	*	*	n	NotFnd	1.12	*	816	1200	1.92	
13C-PCB-126	1.14e+08	1.57	y	42:02	1.25	8830				88.3
PCB-151	*	*	n	NotFnd	0.91	*	872	848	2.05	
PCB-135	*	*	n	NotFnd	0.86	*	872	848	2.18	
PCB-144	*	*	n	NotFnd	1.09	*	872	848	1.71	
PCB-147	*	*	n	NotFnd	1.01	*	872	848	1.85	
PCB-139	*	*	n	NotFnd	1.04	*	872	848	1.79	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	1.04	*	872	848	1.79	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	1.03	*	872	848	1.81	
PCB-143	*	*	n	NotFnd	0.84	*	872	848	2.23	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.84	*	872	848	2.23	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.85	*	872	848	2.20	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.85	*	872	848	2.20	Co-elute PCB 131
PCB-142	1.12e+08	1.25	y	39:29	0.85	13500	-	-	*	
PCB-165	*	*	n	NotFnd	1.12	*	872	848	1.67	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.12	*	872	848	1.67	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	1.04	*	872	848	1.80	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	1.04	*	872	848	1.80	Co-elute PCB 161
PCB-153	7.68e+05	1.14	y	40:09	1.16	67.6	-	-	*	
PCB-168	*	*	n	NotFnd	1.25	*	872	848	1.50	
PCB-141	*	*	n	NotFnd	0.94	*	872	848	1.99	
PCB-137	*	*	n	NotFnd	0.86	*	872	848	2.17	
PCB-130	*	*	n	NotFnd	0.90	*	872	848	2.08	
PCB-138	*	*	n	NotFnd	1.13	*	872	848	1.66	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.13	*	872	848	1.66	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.13	*	872	848	1.66	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.25	*	872	848	1.50	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.25	*	872	848	1.50	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.81	*	872	848	2.32	
PCB-166	*	*	n	NotFnd	1.18	*	872	848	1.58	
PCB-159	*	*	n	NotFnd	1.27	*	872	848	1.47	
PCB-128	*	*	n	NotFnd	1.05	*	872	848	1.79	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	1.05	*	872	848	1.79	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.15	*	872	848	1.62	
13C-PCB-167	9.94e+07	1.25	y	43:25	1.14	8470				84.7
PCB-156	*	*	n	NotFnd	1.21	*	872	848	1.74	
13C-PCB-156	9.39e+07	1.30	y	44:39	1.12	8110				81.1
PCB-157	*	*	n	NotFnd	1.17	*	872	848	1.60	
13C-PCB-157	1.02e+08	1.28	y	44:54	1.15	8620				86.2
PCB-169	*	*	n	NotFnd	1.10	*	872	848	1.51	
13C-PCB-169	9.46e+07	1.29	y	46:45	1.07	8540				85.4

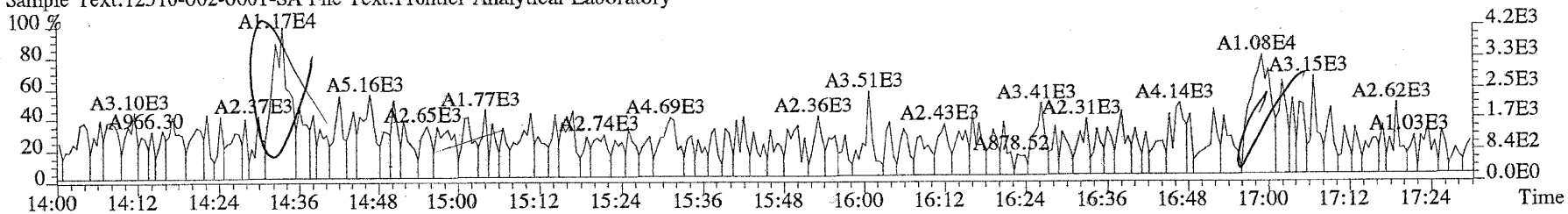
PCB-188	*	*	n	NotFnd	1.05	*	768	544	1.24	
13C-PCB-188	1.05e+08	1.04	y	39:41	1.18	8610				86.1
PCB-184	5.94e+07	1.05	y	40:09	1.20	5190	-	-	*	
PCB-179	*	*	n	NotFnd	1.13	*	768	544	1.16	
PCB-176	*	*	n	NotFnd	1.10	*	768	544	1.19	
PCB-186	*	*	n	NotFnd	1.11	*	768	544	1.18	
PCB-178	*	*	n	NotFnd	0.76	*	768	544	1.72	
PCB-175	*	*	n	NotFnd	0.77	*	768	544	1.70	
PCB-187	*	*	n	NotFnd	0.87	*	768	544	1.50	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.87	*	768	544	1.50	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.86	*	768	544	1.52	
PCB-185	*	*	n	NotFnd	0.77	*	768	544	1.69	
PCB-174	*	*	n	NotFnd	0.79	*	768	544	1.66	
PCB-181	*	*	n	NotFnd	0.78	*	768	544	1.67	
PCB-177	*	*	n	NotFnd	0.70	*	768	544	1.86	
PCB-171	*	*	n	NotFnd	0.77	*	768	544	1.70	
PCB-173	*	*	n	NotFnd	0.68	*	768	544	1.91	
PCB-172	8.30e+05	1.09	y	45:25	0.72	122	-	-	*	
PCB-192	3.56e+07	1.04	y	45:36	0.97	3860	-	-	*	
PCB-180	*	*	n	NotFnd	0.75	*	768	544	1.75	
PCB-193	*	*	n	NotFnd	1.05	*	768	544	1.24	
PCB-191	*	*	n	NotFnd	0.99	*	768	544	1.32	
PCB-170	*	*	n	NotFnd	0.71	*	768	544	1.83	
PCB-190	*	*	n	NotFnd	0.96	*	768	544	1.36	
PCB-189	*	*	n	NotFnd	1.00	*	768	544	1.32	
13C-PCB-189	8.58e+07	1.06	y	48:26	1.01	8240				82.4
PCB-202	*	*	n	NotFnd	1.02	*	320	720	1.34	
PCB-201	*	*	n	NotFnd	1.10	*	320	720	1.23	
PCB-204	8.27e+07	0.88	y	45:25	1.11	9280	-	-	*	
PCB-197	4.62e+05	0.86	y	45:40	1.15	50.4	-	-	*	
PCB-200	*	*	n	NotFnd	1.11	*	320	720	1.22	
PCB-198	*	*	n	NotFnd	0.78	*	320	720	1.75	
PCB-199	*	*	n	NotFnd	0.74	*	320	720	1.83	
PCB-203	*	*	n	NotFnd	0.83	*	320	720	1.64	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.83	*	320	720	1.64	Co-elute PCB 203
13C-PCB-202	8.01e+07	0.91	y	44:49	0.95	8210				82.0
13C-PCB-178	6.86e+07	1.07	y	42:19	0.80	8330				83.3
13C-PCB-138	1.03e+08	1.28	y	41:33	-	139				
PCB-195	*	*	n	NotFnd	0.78	*	576	1700	2.12	
PCB-194	*	*	n	NotFnd	0.86	*	576	1700	1.93	
PCB-205	*	*	n	NotFnd	1.09	*	576	1700	1.52	
13C-PCB-205	9.69e+07	0.91	y	50:05	1.29	8770				87.7
PCB-208	*	*	n	NotFnd	1.05	*	264	220	0.415	
13C-PCB-208	8.38e+07	0.81	y	49:08	1.15	8470				84.7
PCB-207	3.36e+05	1.35	y	49:26	1.23	36.5	-	-	*	
PCB-206	*	*	n	NotFnd	1.08	*	264	220	0.488	
13C-PCB-206	6.57e+07	0.80	y	51:17	0.88	8720				87.2
PCB-209	3.55e+05	1.27	y	52:29	1.13	40.2	-	-	*	
13C-PCB-209	7.79e+07	1.19	y	52:27	1.08	8420				84.2
13C-PCB-194	8.57e+07	0.93	y	49:50	-	119				

Analyst: _____ Date: 8/1/19

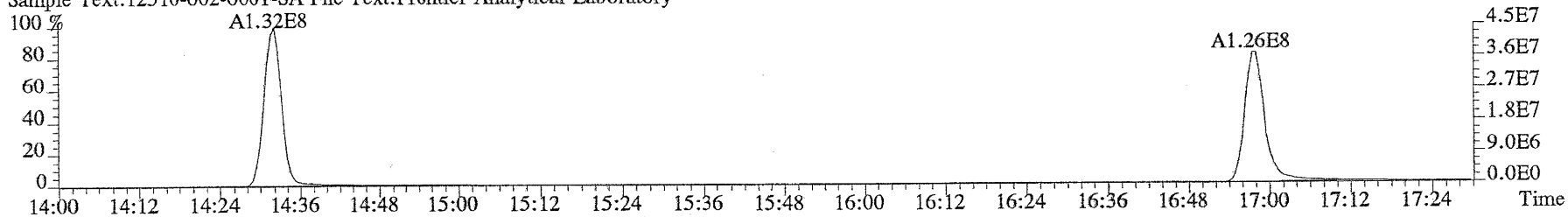
File:31JUL19Z #1-783 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



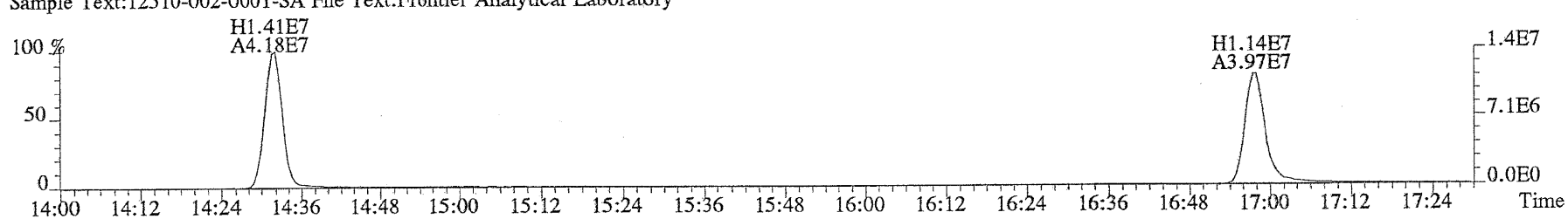
File:31JUL19Z #1-783 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



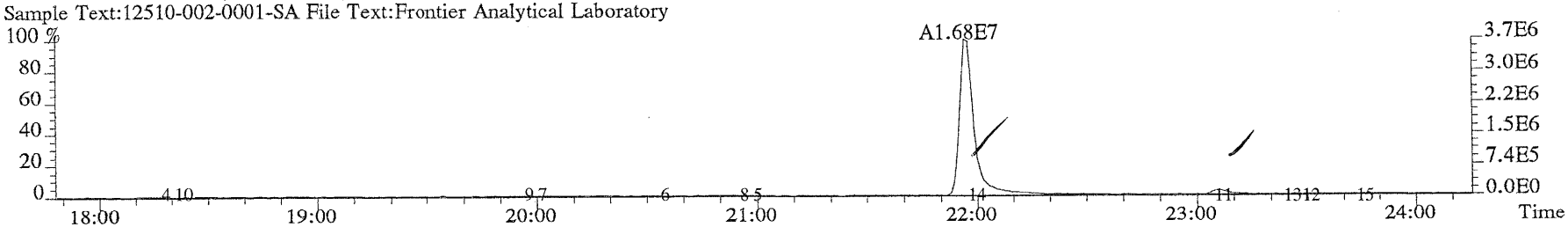
File:31JUL19Z #1-783 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



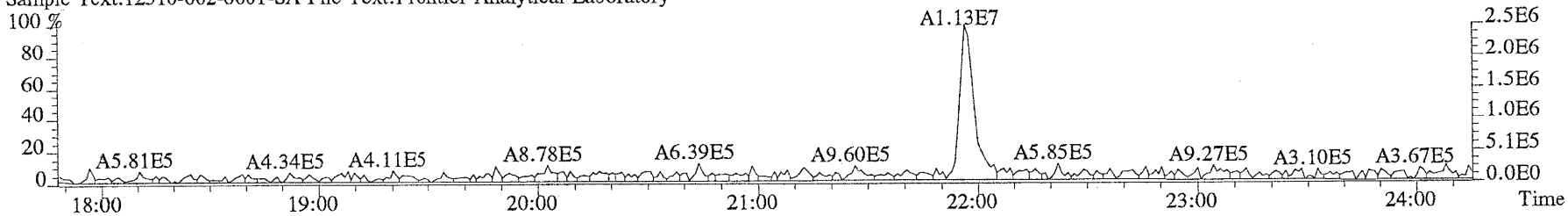
File:31JUL19Z #1-783 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



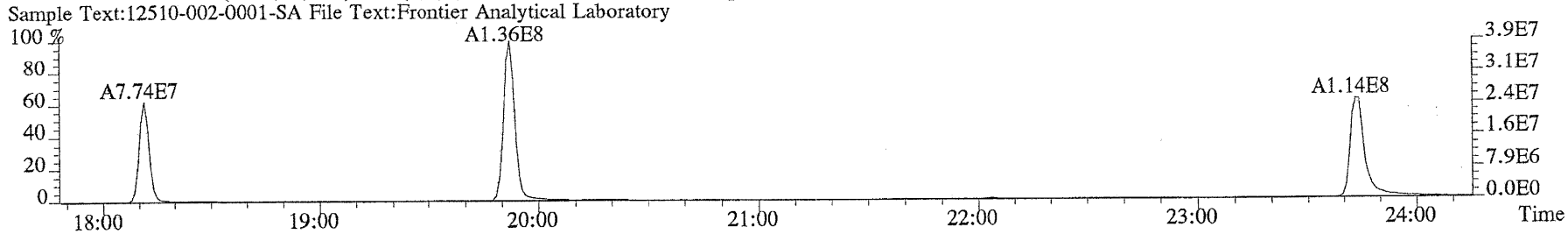
File:31JUL19Z #1-520 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



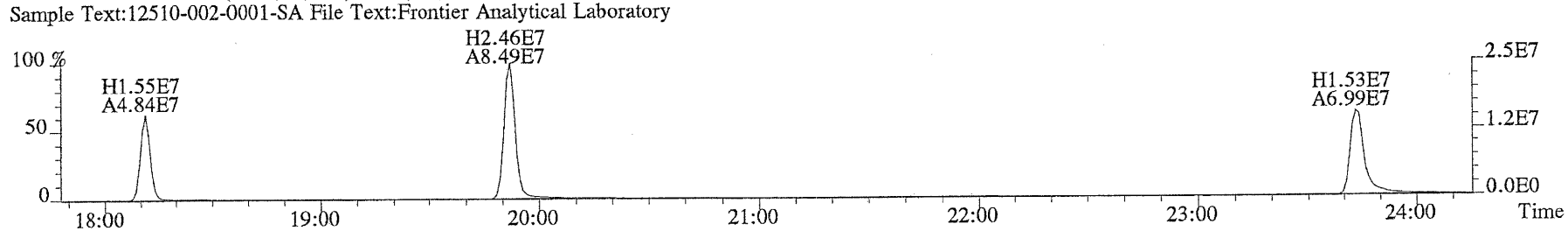
File:31JUL19Z #1-520 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



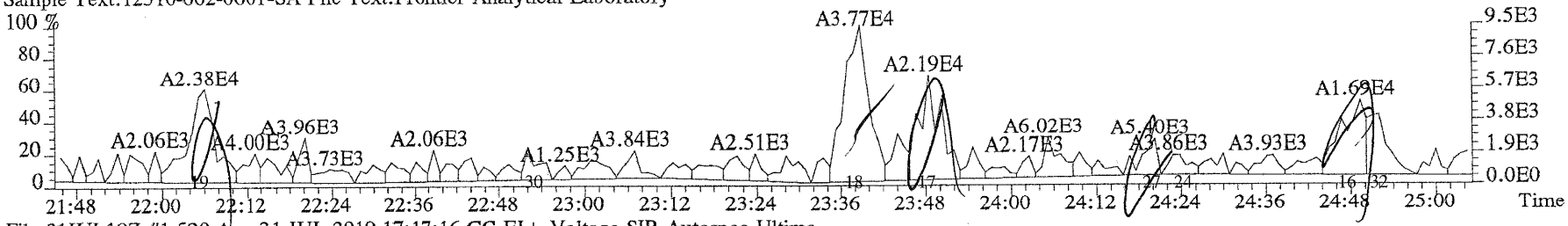
File:31JUL19Z #1-520 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



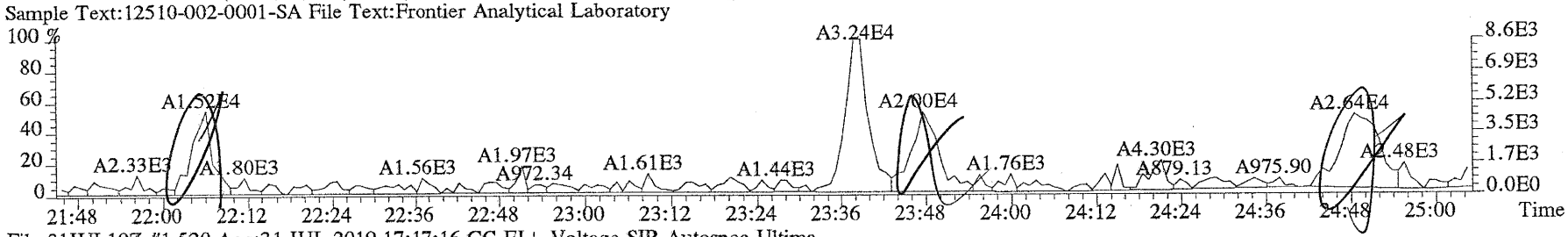
File:31JUL19Z #1-520 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



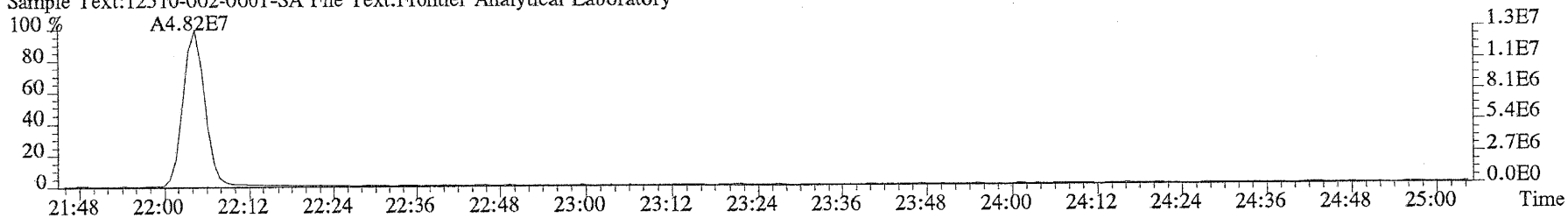
File:31JUL19Z #1-520 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



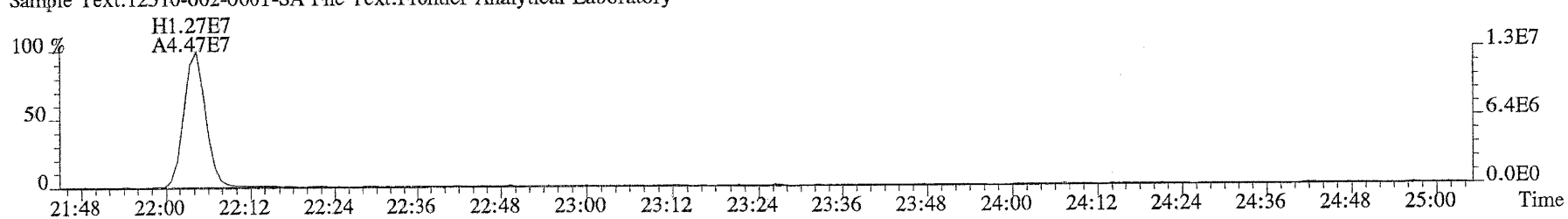
File:31JUL19Z #1-520 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



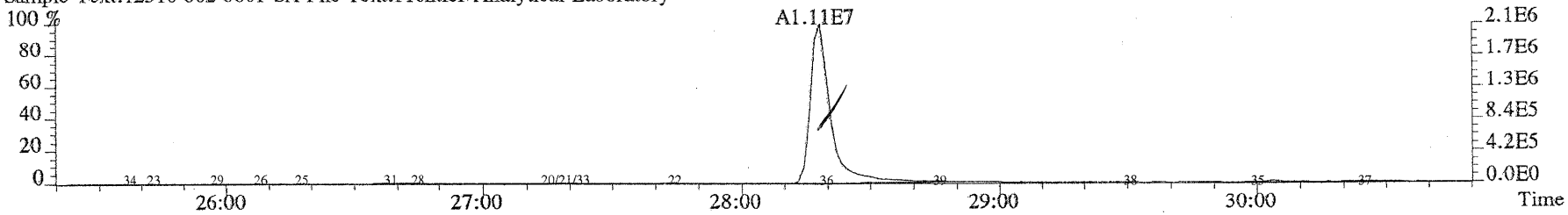
File:31JUL19Z #1-520 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



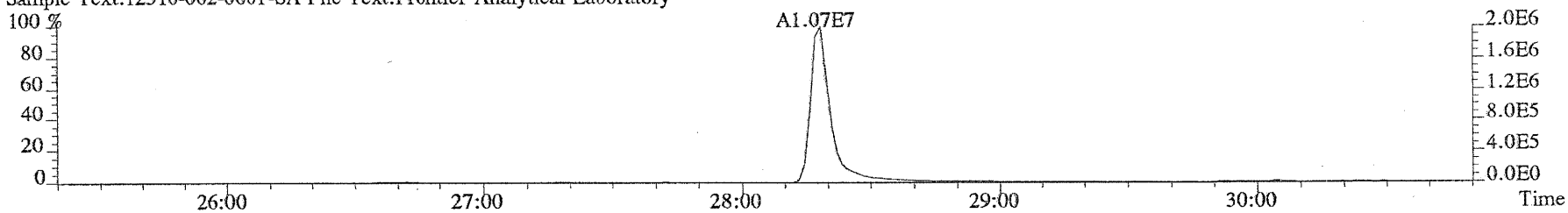
File:31JUL19Z #1-520 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



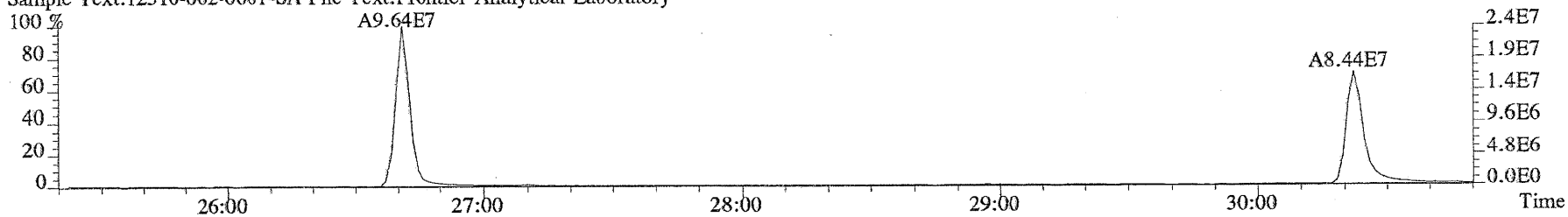
File:31JUL19Z #1-401 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



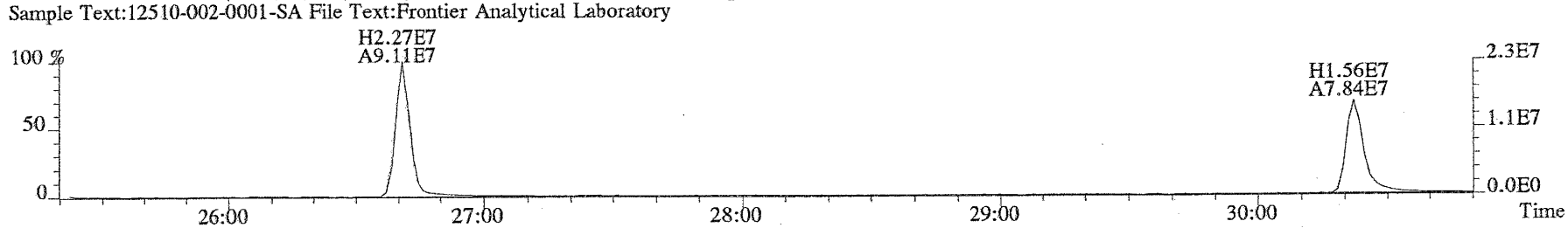
File:31JUL19Z #1-401 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



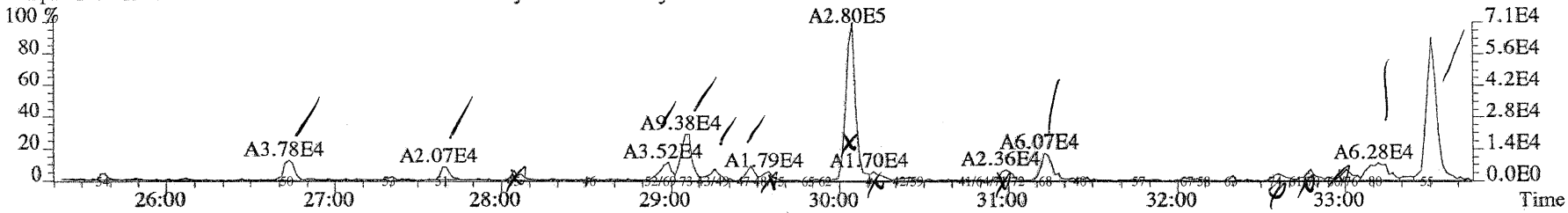
File:31JUL19Z #1-401 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



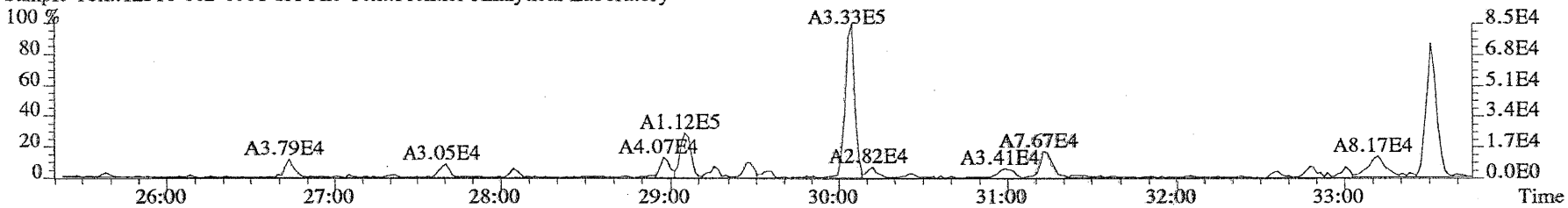
File:31JUL19Z #1-401 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



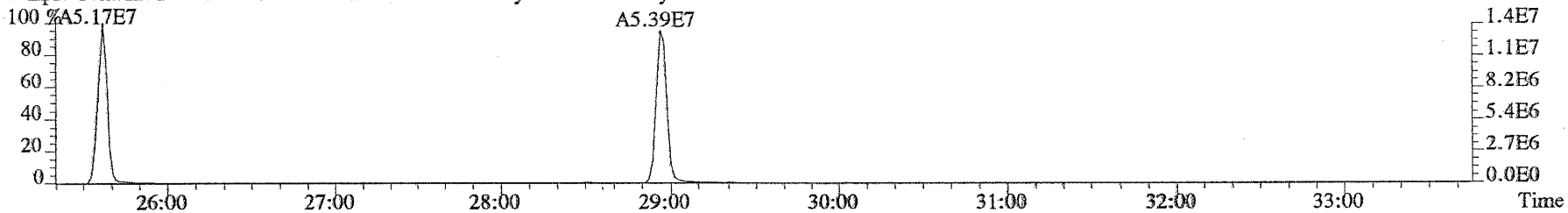
File:31JUL19Z #1-401 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



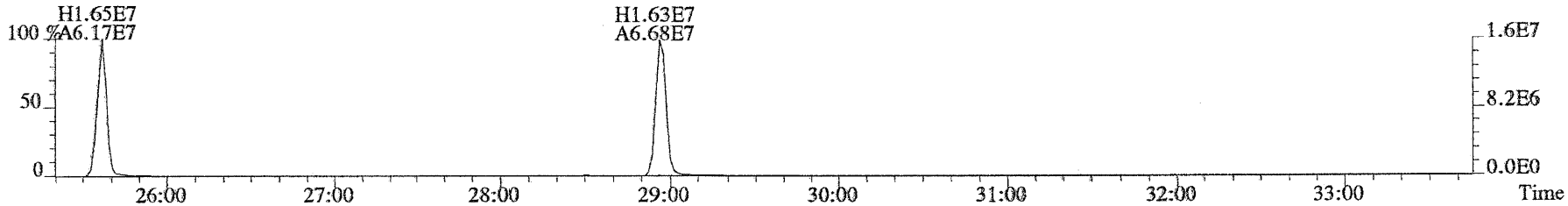
File:31JUL19Z #1-401 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



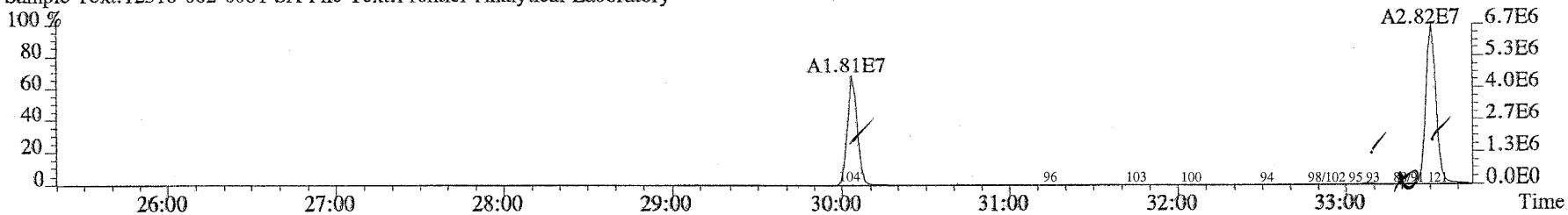
File:31JUL19Z #1-401 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



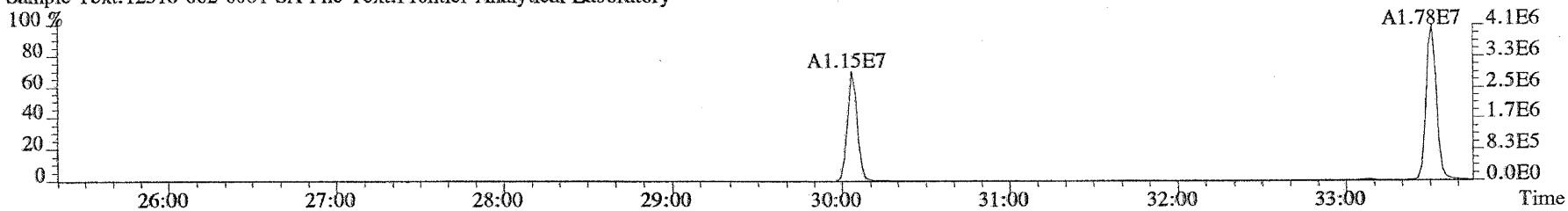
File:31JUL19Z #1-401 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-401 Acq:31-JUL-2019 17:17:16 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:12510-002-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-401 Acq:31-JUL-2019 17:17:16 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:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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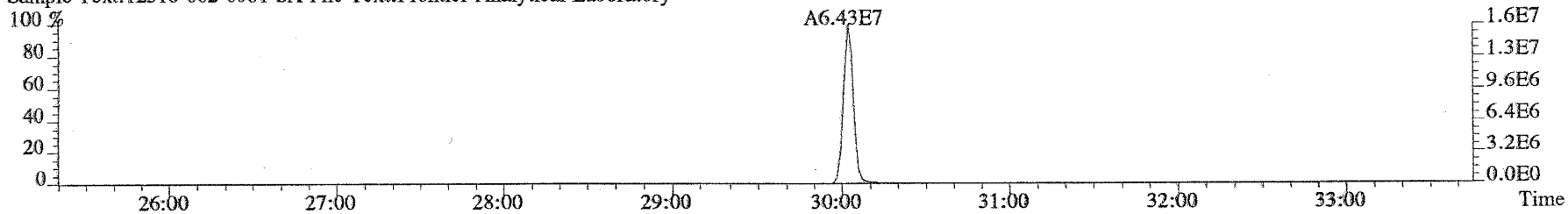
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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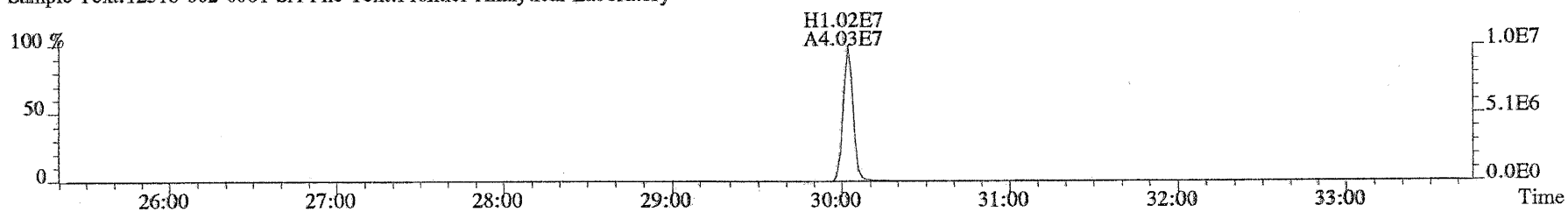
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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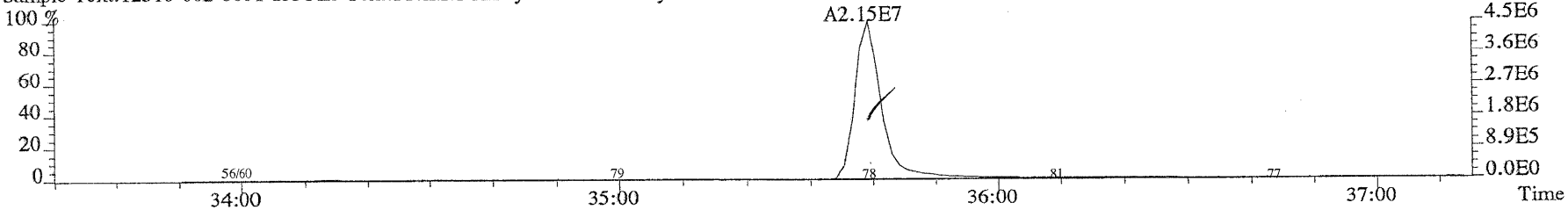
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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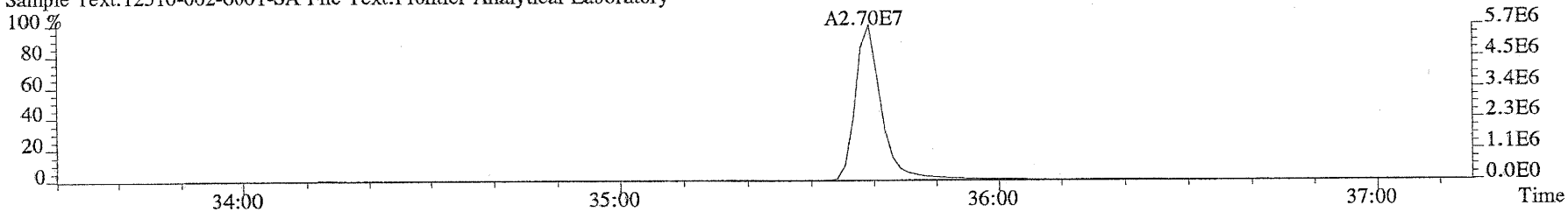

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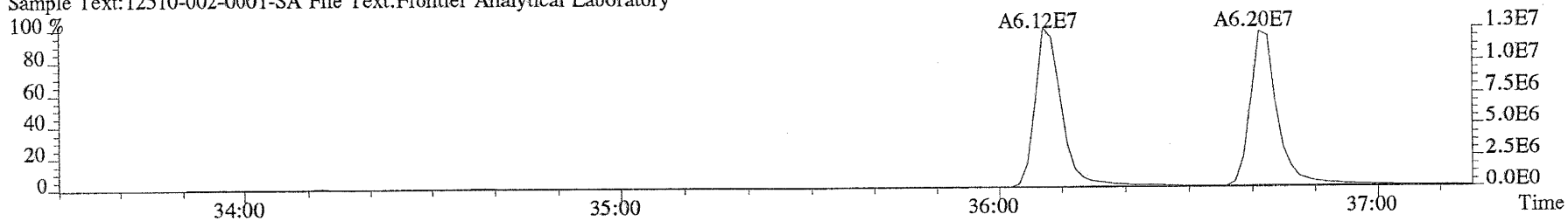
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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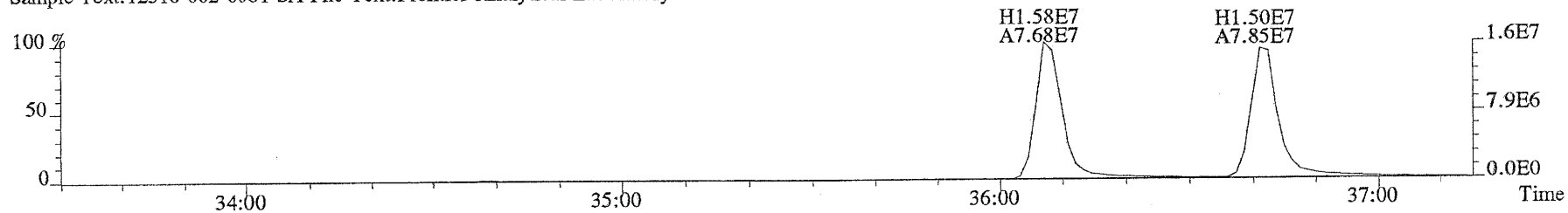
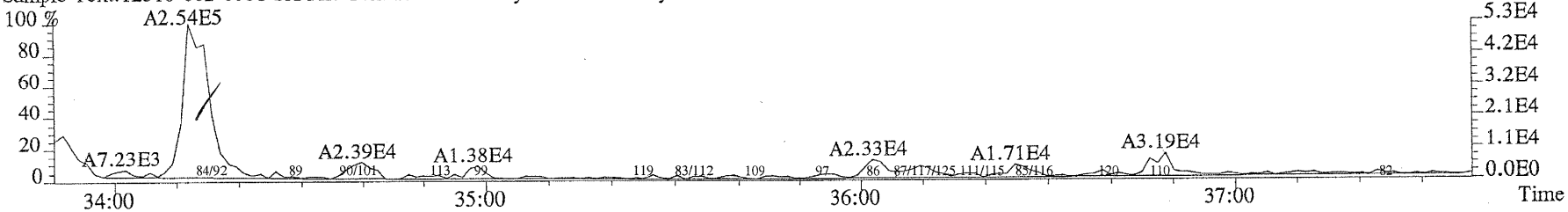
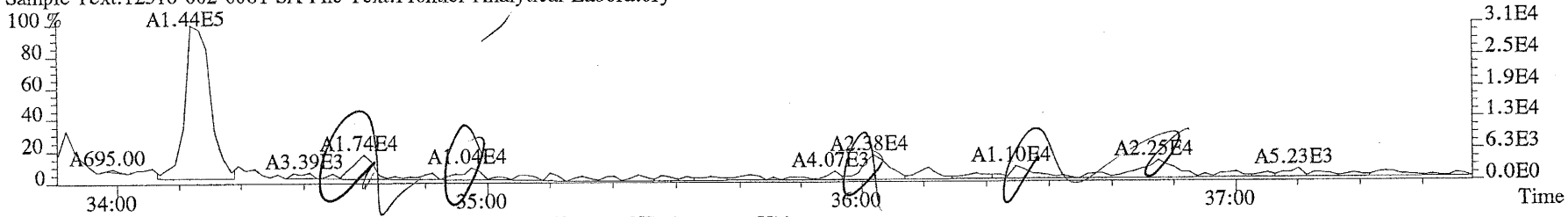
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-181 Acq:31-JUL-2019 17:17:16 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:12510-002-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-181 Acq:31-JUL-2019 17:17:16 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:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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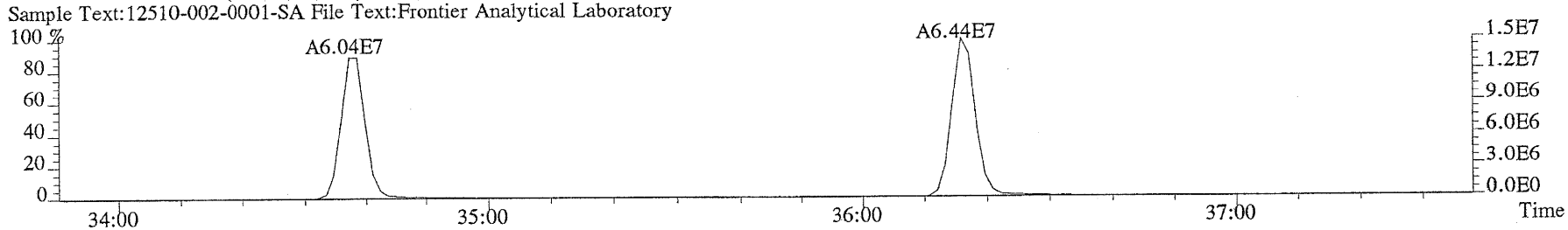
337.9207 S:6 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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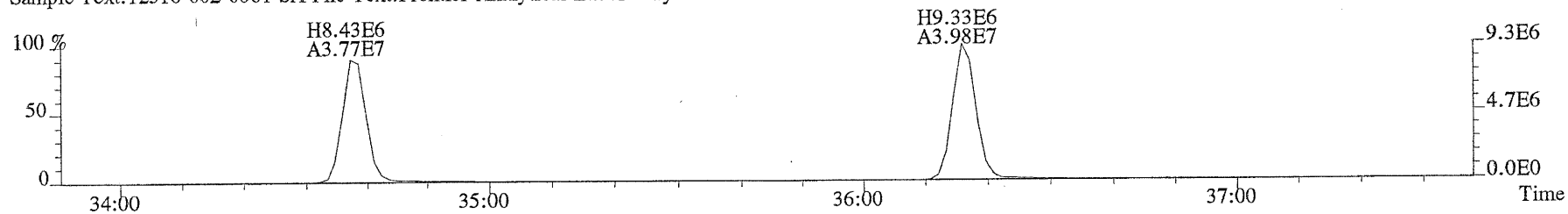
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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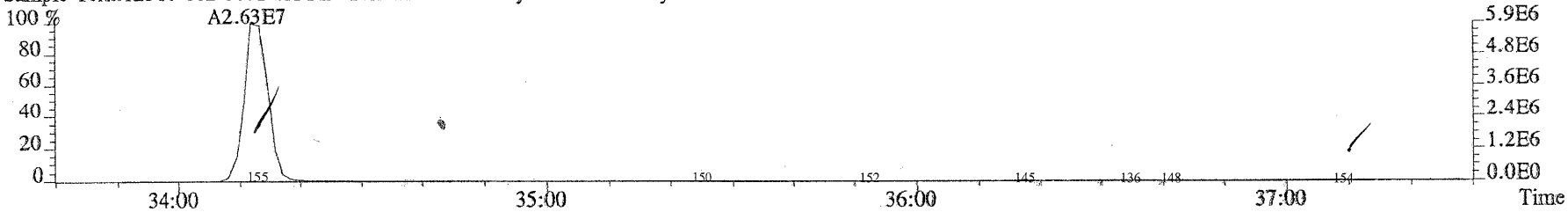
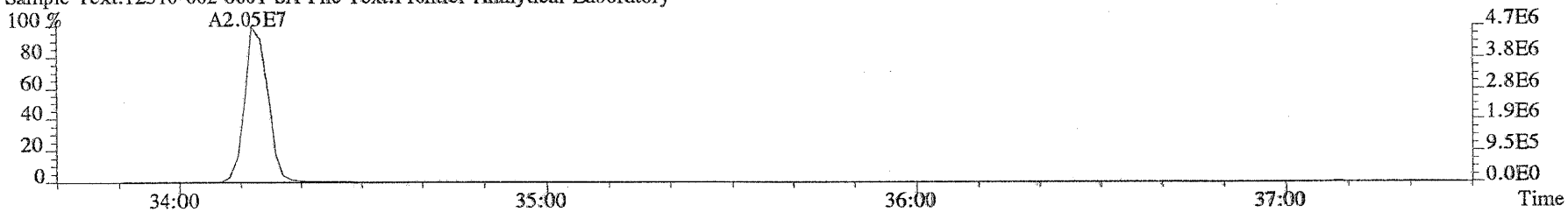
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-181 Acq:31-JUL-2019 17:17:16 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:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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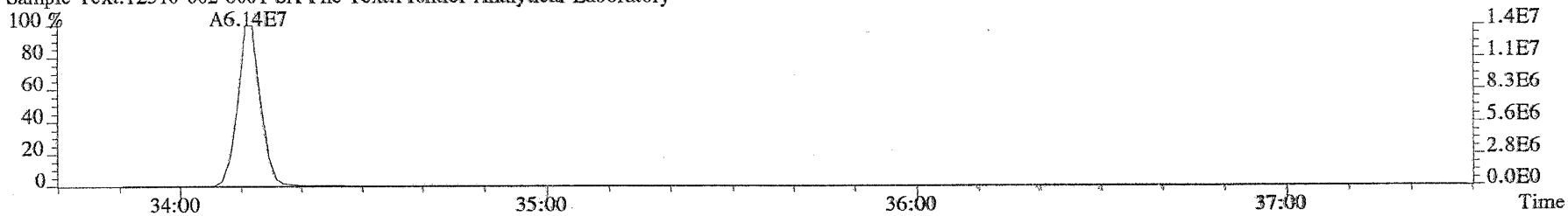
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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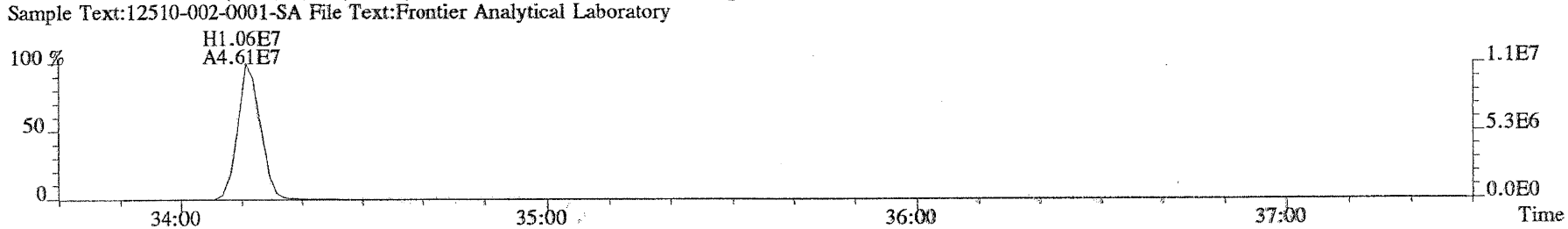
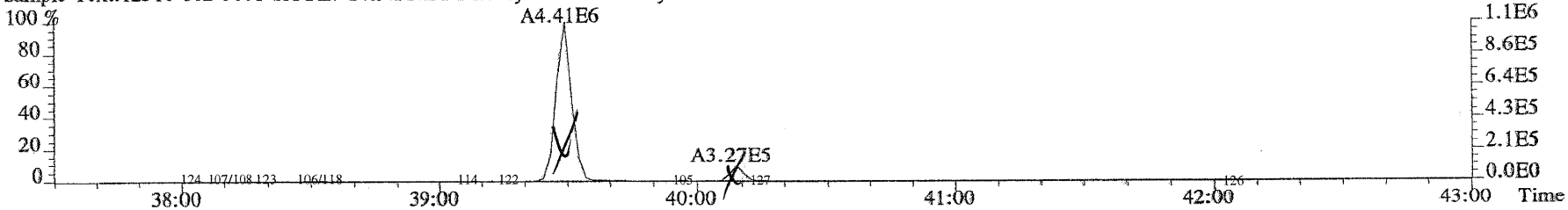
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-405 Acq:31-JUL-2019 17:17:16 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:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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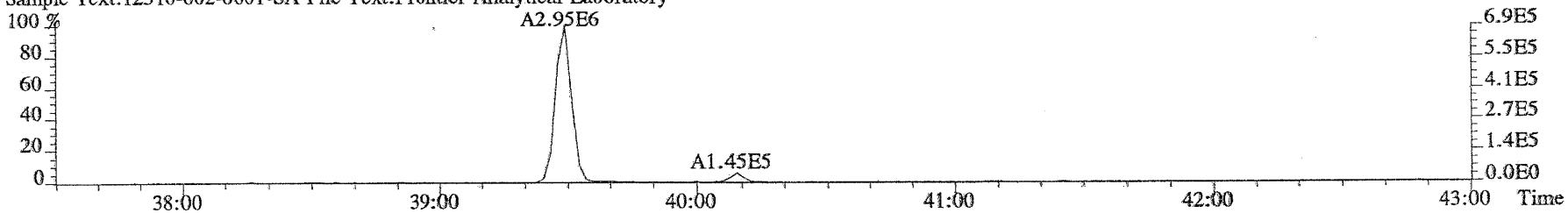
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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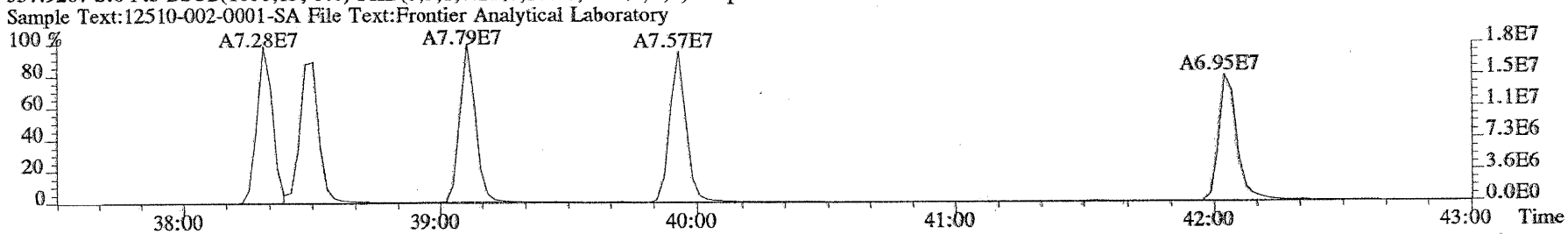
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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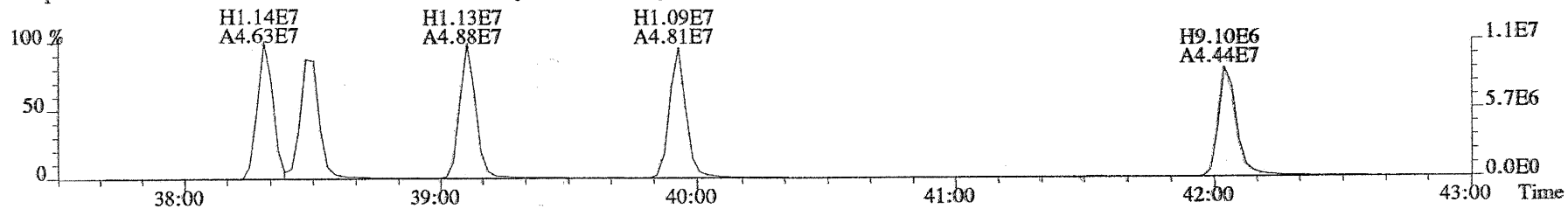
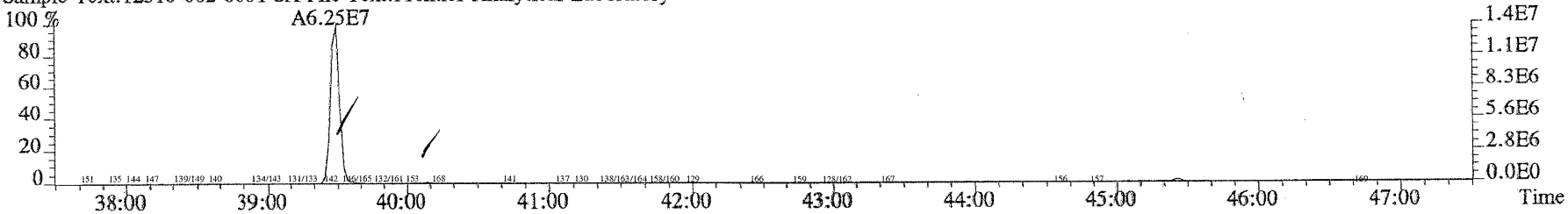
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-405 Acq:31-JUL-2019 17:17:16 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:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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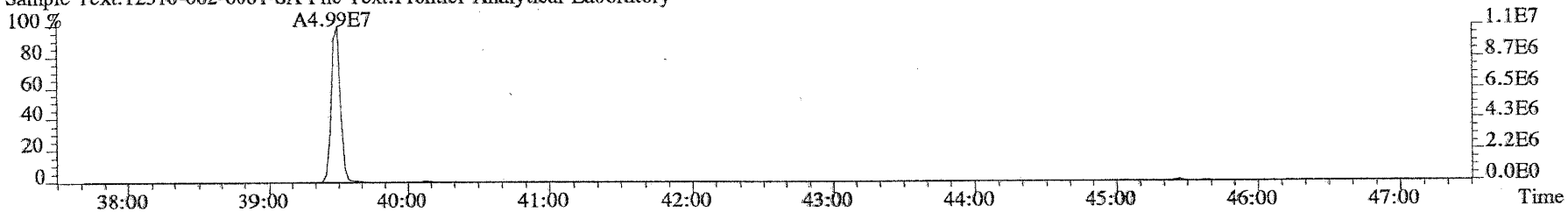

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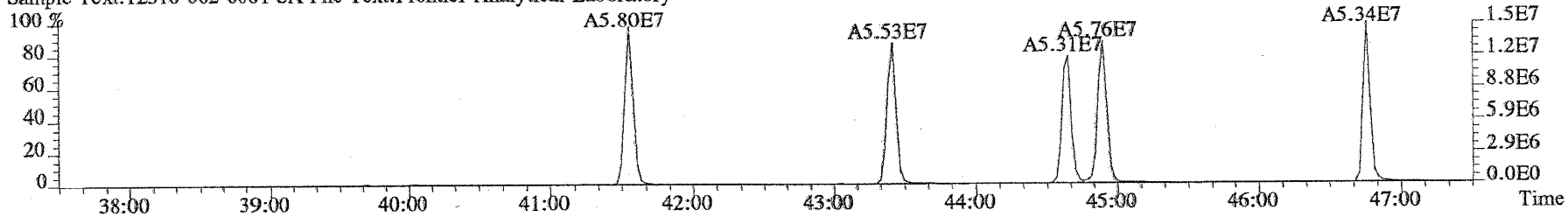
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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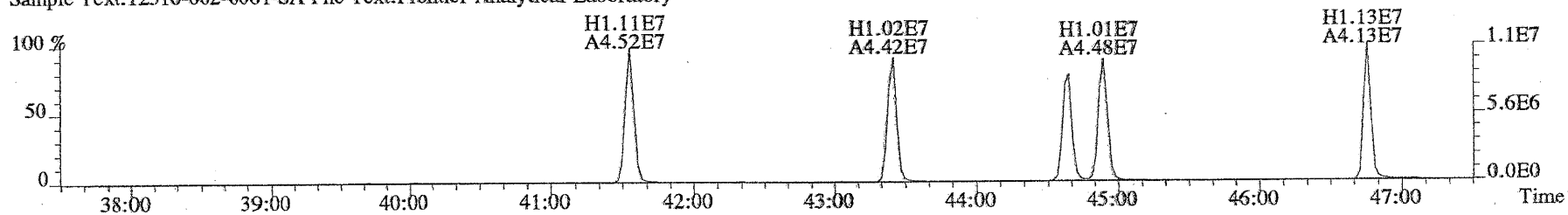
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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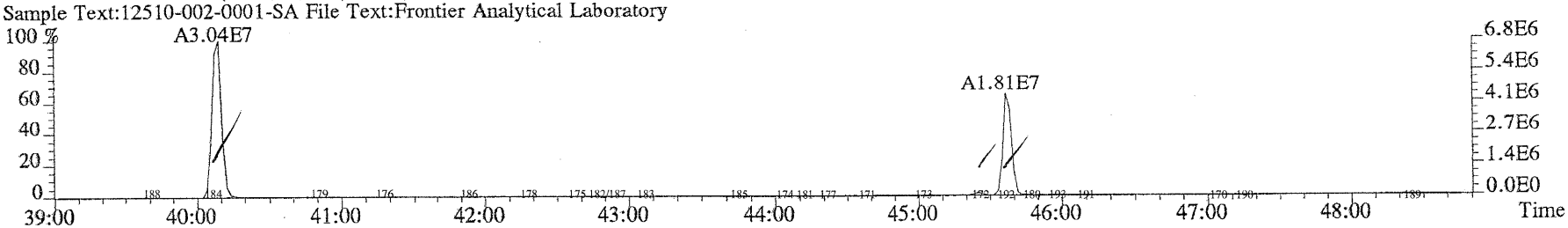
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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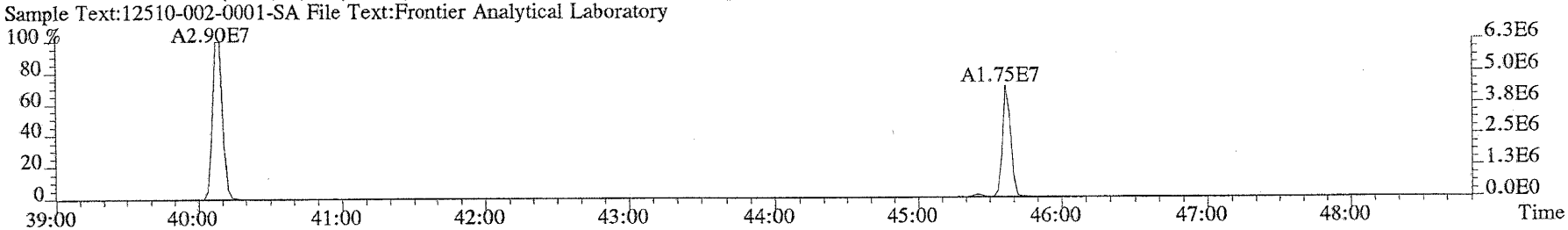
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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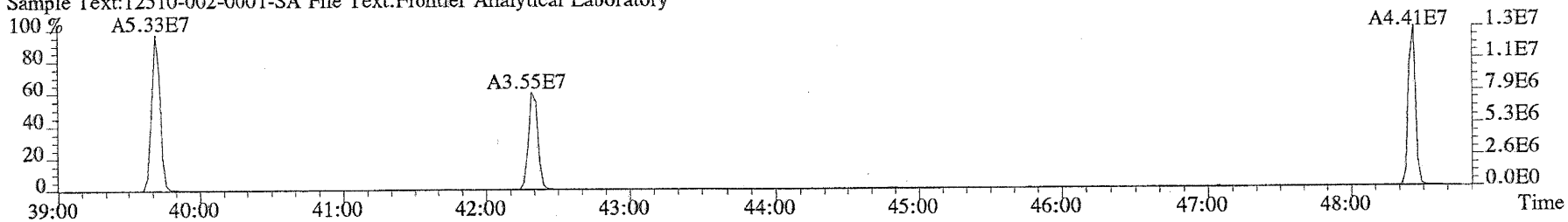
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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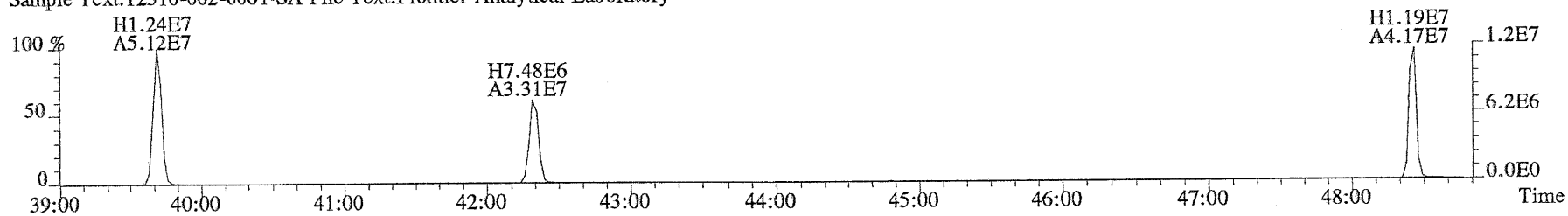
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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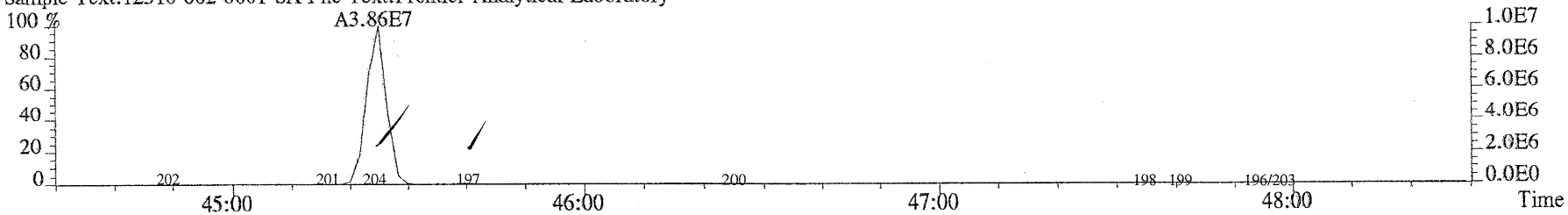
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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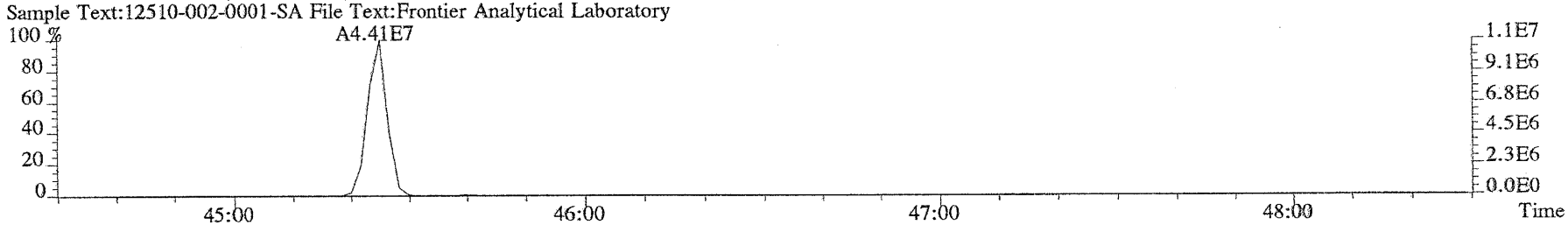
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



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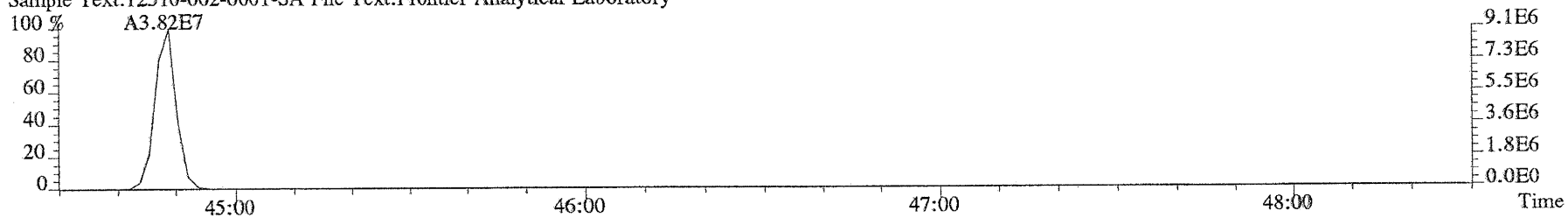
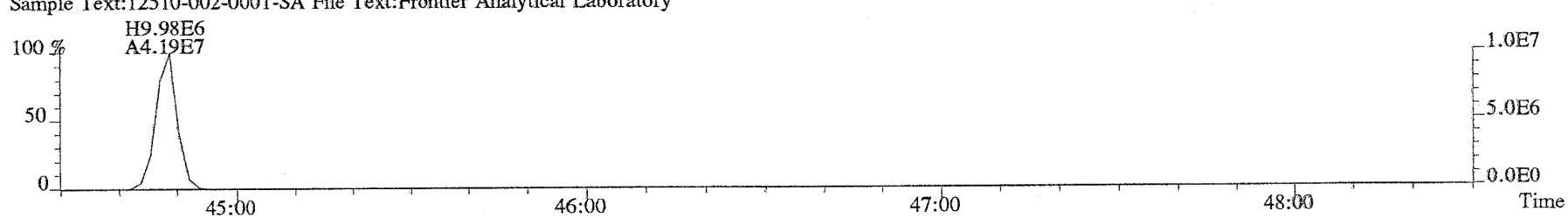
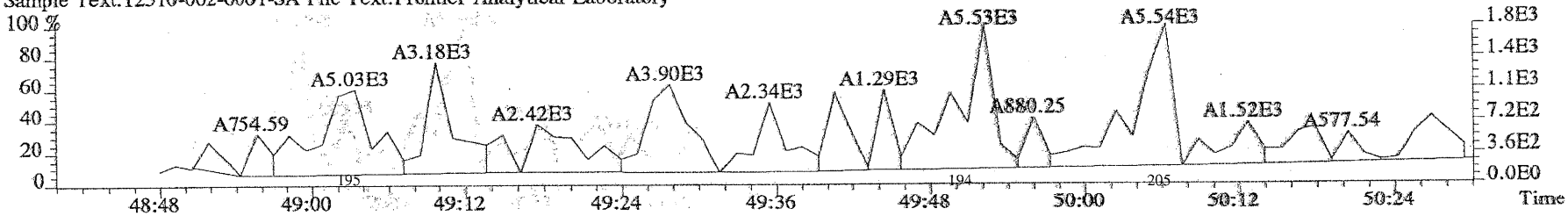
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



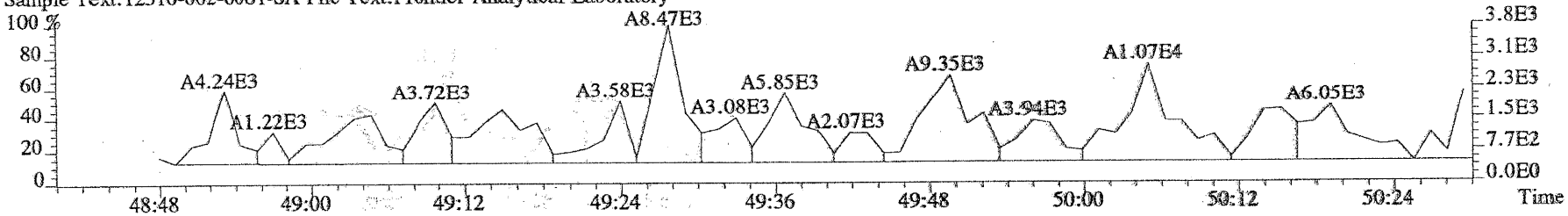
File:31JUL19Z #1-405 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



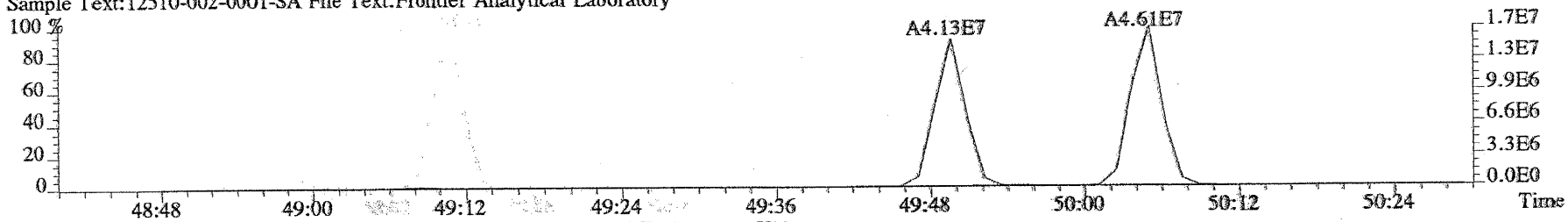
File:31JUL19Z #1-315 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



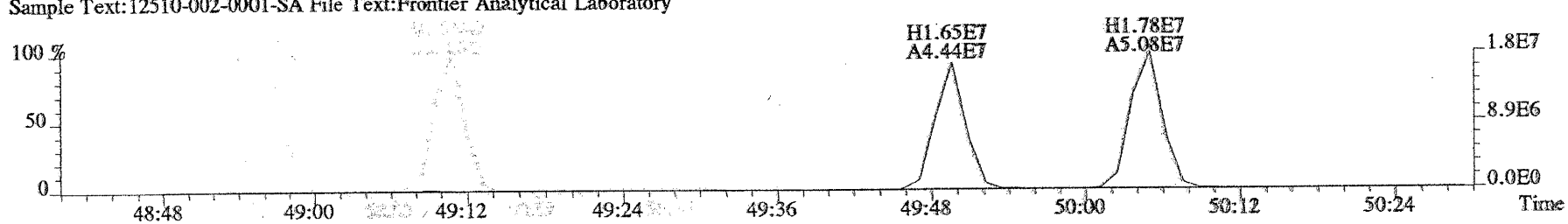
File:31JUL19Z #1-315 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



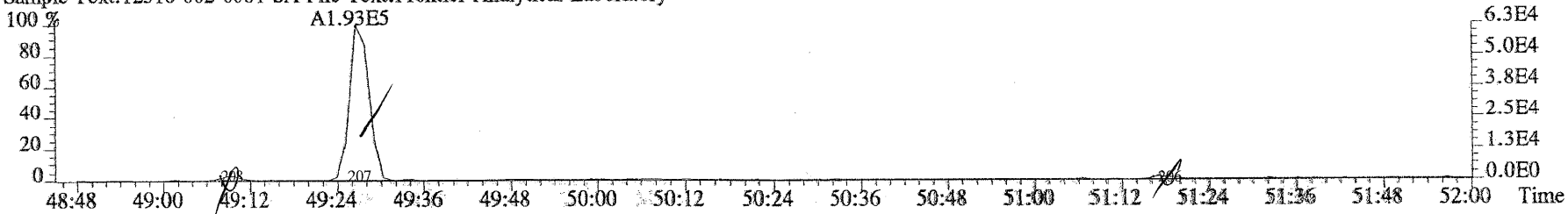
File:31JUL19Z #1-315 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



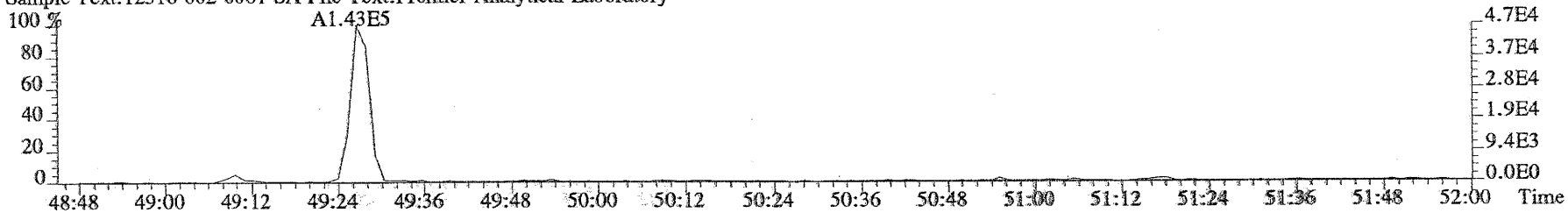
File:31JUL19Z #1-315 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



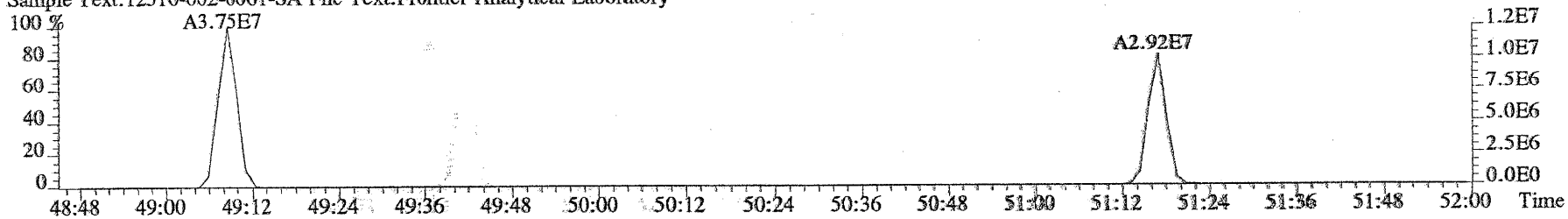
File:31JUL19Z #1-315 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



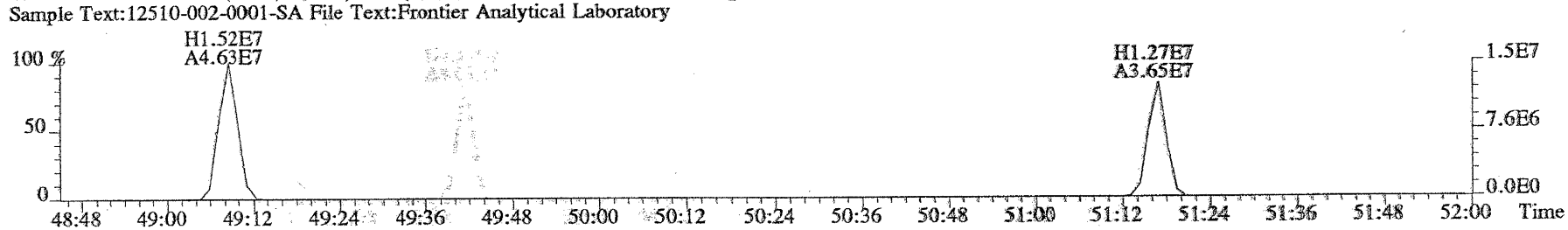
File:31JUL19Z #1-315 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



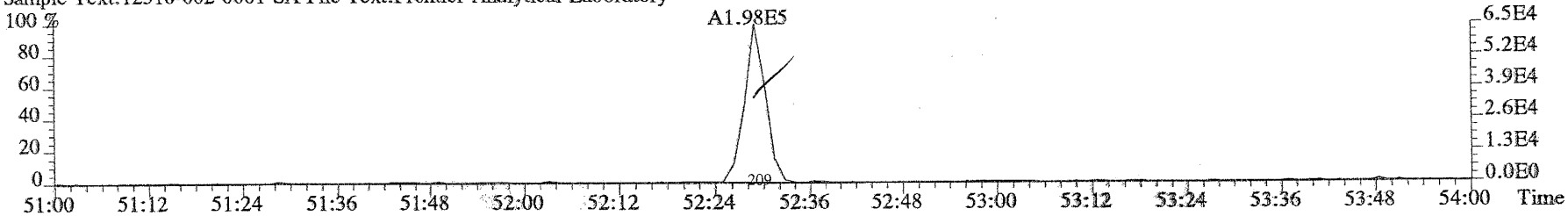
File:31JUL19Z #1-315 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



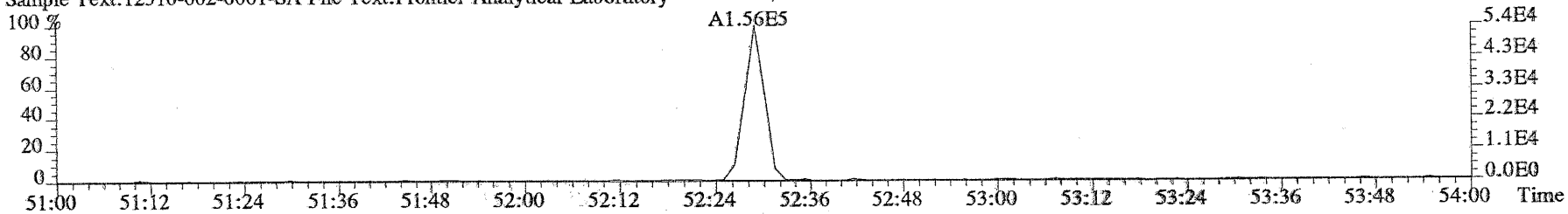
File:31JUL19Z #1-315 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



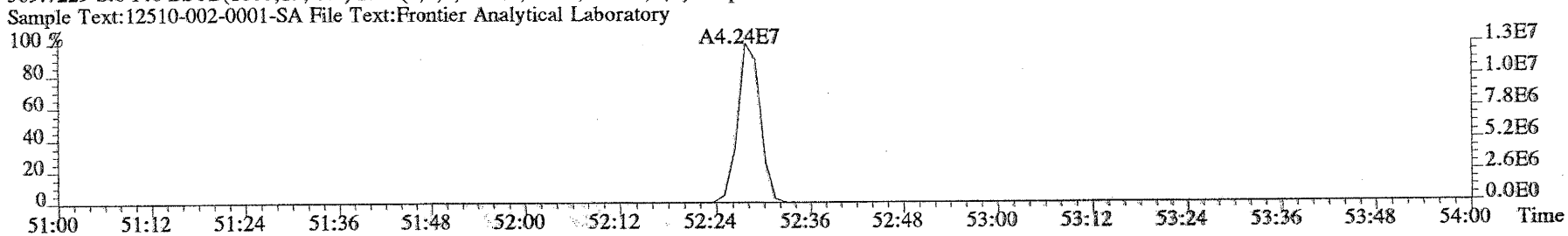
File:31JUL19Z #1-315 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



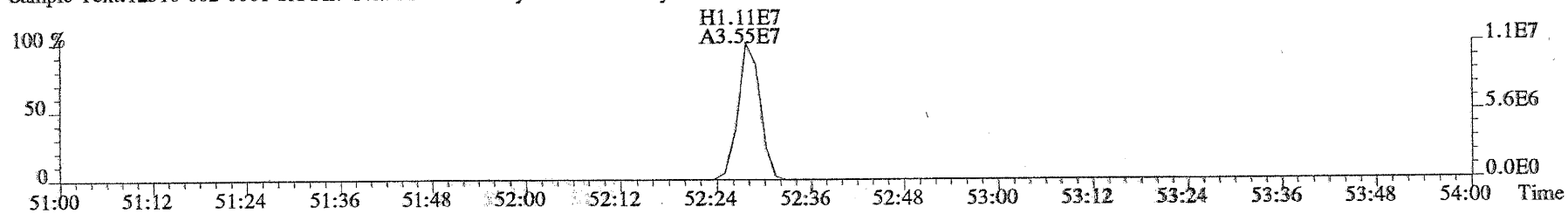
File:31JUL19Z #1-315 Acq:31-JUL-2019 17:17:16 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-002-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 17:17:16 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:12510-002-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 17:17:16 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:12510-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12510-003-0001-SA Filename: 31JUL19Z Sam:7 Acquired: 31-JUL-19 18:15:38 ICal: DAILY209FAL4-7-31-19
Client ID: LDW-Y2-IN-S010-TB ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.20	*		2240	1690	1.51	
13C-PCB-1	1.58e+08	3.14	y	14:33	0.94	8410					84.1
PCB-2	*	*	n	NotFnd	1.19	*		2240	1690	1.70	
PCB-3	*	*	n	NotFnd	1.22	*		2240	1690	1.86	
13C-PCB-3	1.49e+08	3.19	y	16:58	0.88	8440					84.4
PCB-4	*	*	n	NotFnd	1.16	*		1100	9870	6.92	
PCB-10	*	*	n	NotFnd	1.41	*		1100	9870	5.11	
13C-PCB-4	1.11e+08	1.61	y	18:12	0.67	8250					82.5
PCB-9	*	*	n	NotFnd	1.44	*		1100	9870	4.99	
PCB-7	*	*	n	NotFnd	1.43	*		1100	9870	5.06	
PCB-6	*	*	n	NotFnd	1.49	*		1100	9870	4.84	
PCB-8	*	*	n	NotFnd	1.36	*		1100	9870	5.32	
PCB-5	*	*	n	NotFnd	1.45	*		1100	9870	4.97	
PCB-14	2.17e+07	1.39	y	21:57	1.36	1100		-	-	*	
PCB-11	9.62e+05	1.50	y	23:06	1.24	53.5		-	-	*	
PCB-13	*	*	n	NotFnd	1.24	*		1100	9870	5.79	
PCB-12	*	*	n	NotFnd	1.28	*		1100	9870	5.63	
PCB-15	*	*	n	NotFnd	1.16	*		1100	9870	5.81	
13C-PCB-15	1.78e+08	1.61	y	23:44	0.91	9740					97.4
PCB-19	*	*	n	NotFnd	1.16	*		1700	952	2.66	
PCB-30	*	*	n	NotFnd	1.70	*		1700	952	1.82	
PCB-18	8.31e+04	0.94	y	23:40	1.12	8.97	J	-	-	*	
PCB-17	*	*	n	NotFnd	1.27	*		1700	952	2.44	
PCB-27	*	*	n	NotFnd	1.62	*		1700	952	1.91	
PCB-24	*	*	n	NotFnd	1.68	*		1700	952	1.84	
PCB-16	*	*	n	NotFnd	1.38	*		1700	952	2.24	
PCB-32	*	*	n	NotFnd	1.46	*		1700	952	2.11	
13C-PCB-19	8.25e+07	1.06	y	22:05	0.49	8370					83.7
13C-PCB-9	2.00e+08	1.61	y	19:53	-	118					
PCB-34	*	*	n	NotFnd	1.23	*		2710	1950	3.26	
PCB-23	*	*	n	NotFnd	1.39	*		2710	1950	2.88	
PCB-29	*	*	n	NotFnd	1.33	*		2710	1950	3.01	
PCB-26	*	*	n	NotFnd	1.26	*		2710	1950	3.19	
PCB-25	*	*	n	NotFnd	1.26	*		2710	1950	3.20	
PCB-31	*	*	n	NotFnd	1.19	*		2710	1950	3.37	
PCB-28	*	*	n	NotFnd	1.60	*		2710	1950	2.51	
PCB-20	*	*	n	NotFnd	1.25	*		2710	1950	3.22	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.25	*		2710	1950	3.22	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.25	*		2710	1950	3.22	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.40	*		2710	1950	2.87	
PCB-36	1.54e+07	1.03	y	28:20	1.24	814		-	-	*	
PCB-39	*	*	n	NotFnd	1.25	*		2710	1950	3.21	
PCB-38	*	*	n	NotFnd	1.27	*		2710	1950	3.17	
PCB-35	*	*	n	NotFnd	1.14	*		2710	1950	3.52	
PCB-37	*	*	n	NotFnd	1.21	*		2710	1950	3.32	
13C-PCB-37	1.53e+08	1.06	y	30:22	1.51	9310					93.1

PCB-54	*	*	n	NotFnd	1.24	*		1200	1020	1.74	
PCB-50	6.51e+04	0.83	y	26:46	0.93	6.33	J	-	-	*	
PCB-53	*	*	n	NotFnd	0.90	*		1200	1020	2.40	
PCB-51	4.82e+04	0.79	y	27:40	0.96	4.54	J	-	-	*	
PCB-45	5.18e+04	0.86	y	28:07	0.79	5.98	J	-	-	*	
PCB-46	*	*	n	NotFnd	0.74	*		1200	1020	2.91	
PCB-52	9.16e+04	0.82	y	28:59	0.92	8.99	J	-	-	*	Co-elute PCB 69
PCB-69	9.16e+04	0.82	y	28:59	0.92	8.99	J	-	-	*	Co-elute PCB 52
PCB-73	1.54e+05	0.79	y	29:06	1.13	12.3	J	-	-	*	
PCB-43	6.65e+04	0.84	y	29:16	0.82	7.40	J	-	-	*	Co-elute PCB 49
PCB-49	6.65e+04	0.84	y	29:16	0.82	7.40	J	-	-	*	Co-elute PCB 43
PCB-47	5.74e+04	0.79	y	29:29	0.81	6.41	J	-	-	*	
PCB-48	6.65e+04	0.85	y	29:35	1.07	5.63	J	-	-	*	Co-elute PCB 75
PCB-75	6.65e+04	0.85	y	29:35	1.07	5.63	J	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*		1200	1020	2.07	
PCB-62	*	*	n	NotFnd	1.06	*		1200	1020	2.05	
PCB-44	7.40e+04	0.67	y	30:12	0.69	9.69	J	-	-	*	
PCB-42	*	*	n	NotFnd	0.90	*		1200	1020	2.40	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.90	*		1200	1020	2.40	Co-elute PCB 42
PCB-72	8.07e+04	0.71	y	31:00	1.02	7.18	J	-	-	*	Co-elute PCB 41/71/64
PCB-41	8.07e+04	0.71	y	31:00	1.02	7.18	J	-	-	*	Co-elute PCB 72/71/64
PCB-71	8.07e+04	0.71	y	31:00	1.02	7.18	J	-	-	*	Co-elute PCB 72/41/64
PCB-64	8.07e+04	0.71	y	31:00	1.02	7.18	J	-	-	*	Co-elute PCB 72/41/71
PCB-68	1.08e+05	0.74	y	31:14	1.17	8.40	J	-	-	*	
PCB-40	*	*	n	NotFnd	0.65	*		1200	1020	3.31	
PCB-57	*	*	n	NotFnd	1.07	*		1200	1020	2.01	
PCB-67	*	*	n	NotFnd	1.03	*		1200	1020	2.11	
PCB-58	*	*	n	NotFnd	1.14	*		1200	1020	1.89	
PCB-63	*	*	n	NotFnd	1.07	*		1200	1020	2.02	
PCB-74	5.12e+04	0.81	y	32:36	1.06	4.39	J	-	-	*	
PCB-61	9.71e+04	0.88	y	32:48	1.00	8.81	J	-	-	*	Co-elute PCB 70
PCB-70	9.71e+04	0.88	y	32:48	1.00	8.81	J	-	-	*	Co-elute PCB 61
PCB-76	6.86e+04	0.72	y	33:01	1.11	5.59	J	-	-	*	Co-elute PCB 66
PCB-66	6.86e+04	0.72	y	33:01	1.11	5.59	J	-	-	*	Co-elute PCB 76
PCB-80	9.55e+04	0.82	y	33:13	1.29	6.69	J	-	-	*	
PCB-55	4.52e+05	0.81	y	33:32	1.13	36.3		-	-	*	
13C-PCB-54	1.10e+08	0.82	y	25:38	1.34	7560					75.6
PCB-104	1.82e+07	1.56	y	30:04	1.09	1740		-	-	*	
PCB-96	*	*	n	NotFnd	1.05	*		654	651	1.47	
PCB-103	*	*	n	NotFnd	0.84	*		654	651	1.84	
PCB-100	*	*	n	NotFnd	0.85	*		654	651	1.81	
PCB-94	*	*	n	NotFnd	0.70	*		654	651	2.21	
PCB-98	*	*	n	NotFnd	0.70	*		654	651	2.20	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.70	*		654	651	2.20	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.77	*		654	651	2.00	
PCB-93	2.84e+05	1.75	y	33:08	0.76	39.2		-	-	*	
PCB-88	*	*	n	NotFnd	0.78	*		654	651	1.96	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.78	*		654	651	1.96	Co-elute PCB 88
PCB-121	3.25e+07	1.56	y	33:31	0.97	3530		-	-	*	
13C-PCB-104	9.52e+07	1.60	y	30:03	1.08	8110					81.1
13C-PCB-28	1.69e+08	1.05	y	26:42	1.80	8650					86.5
13C-PCB-52	1.09e+08	0.80	y	28:57	-	134					

PCB-56	*	*	n	NotFnd	1.15	*		1900	1650	3.12	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.15	*		1900	1650	3.12	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.22	*		1900	1650	2.94	
PCB-78	3.40e+07	0.79	y	35:39	1.19	2240		-	-	*	
PCB-81	*	*	n	NotFnd	1.25	*		1900	1650	2.80	
13C-PCB-81	1.26e+08	0.79	y	36:08	1.49	9310					93.1
PCB-77	*	*	n	NotFnd	1.08	*		1900	1650	3.42	
13C-PCB-77	1.29e+08	0.79	y	36:42	1.57	9080					90.8
PCB-155	3.23e+07	1.27	y	34:13	1.04	2950		-	-	*	
PCB-150	*	*	n	NotFnd	0.98	*		472	492	1.06	
PCB-152	*	*	n	NotFnd	0.95	*		472	492	1.09	
PCB-145	*	*	n	NotFnd	0.97	*		472	492	1.06	
PCB-136	*	*	n	NotFnd	0.95	*		472	492	1.09	
PCB-148	*	*	n	NotFnd	0.70	*		472	492	1.49	
PCB-154	8.51e+04	1.19	y	37:10	0.81	9.96	J	-	-	*	
13C-PCB-155	1.06e+08	1.28	y	34:12	1.37	8540					85.4
13C-PCB-111	9.74e+07	1.61	y	36:16	1.21	8860					88.6
13C-PCB-101	9.07e+07	1.59	y	34:37	-	129					
PCB-84	3.41e+05	1.61	y	34:13	0.77	38.6		-	-	*	Co-elute PCB 92
PCB-92	3.41e+05	1.61	y	34:13	0.77	38.6		-	-	*	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.76	*		1980	1300	4.43	
PCB-90	7.01e+04	1.76	y	34:40	0.82	7.44	J	-	-	*	Co-elute PCB 101
PCB-101	7.01e+04	1.76	y	34:40	0.82	7.44	J	-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.92	*		1980	1300	3.66	
PCB-99	*	*	n	NotFnd	0.91	*		1980	1300	3.70	
PCB-119	*	*	n	NotFnd	1.01	*		1980	1300	3.33	
PCB-83	*	*	n	NotFnd	0.82	*		1980	1300	4.08	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.82	*		1980	1300	4.08	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.00	*		1980	1300	3.37	
PCB-97	*	*	n	NotFnd	0.69	*		1980	1300	4.89	
PCB-86	*	*	n	NotFnd	0.72	*		1980	1300	4.69	
PCB-125	*	*	n	NotFnd	0.90	*		1980	1300	3.74	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.90	*		1980	1300	3.74	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.90	*		1980	1300	3.74	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.01	*		1980	1300	3.32	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.01	*		1980	1300	3.32	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.91	*		1980	1300	3.71	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.91	*		1980	1300	3.71	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.04	*		1980	1300	3.22	
PCB-110	*	*	n	NotFnd	1.03	*		1980	1300	3.28	
PCB-82	*	*	n	NotFnd	0.60	*		1980	1300	5.56	
PCB-124	*	*	n	NotFnd	1.21	*		1650	1160	2.38	
PCB-108	*	*	n	NotFnd	1.14	*		1650	1160	2.52	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.14	*		1650	1160	2.52	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.04	*		1650	1160	2.80	
13C-PCB-123	1.11e+08	1.59	y	38:19	1.28	9590					95.9
PCB-118	*	*	n	NotFnd	1.10	*		1650	1160	2.65	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.10	*		1650	1160	2.65	Co-elute PCB 118
13C-PCB-118	1.19e+08	1.60	y	38:30	1.39	9490					94.9
PCB-114	*	*	n	NotFnd	1.23	*		1650	1160	2.34	
13C-PCB-114	1.16e+08	1.60	y	39:06	1.31	9790					97.9
PCB-122	*	*	n	NotFnd	1.12	*		1650	1160	2.57	
PCB-105	*	*	n	NotFnd	1.19	*		1650	1160	2.33	
13C-PCB-105	1.15e+08	1.60	y	39:56	1.32	9600					96.0

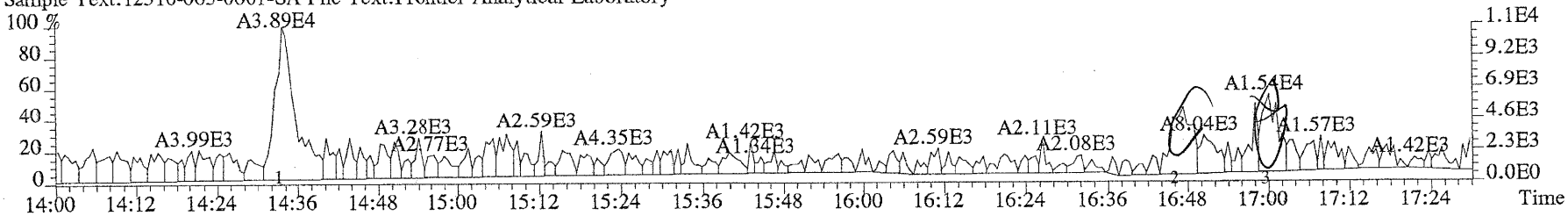
PCB-127	*	*	n	NotFnd	1.09	*	1650	1160	2.65	
PCB-126	*	*	n	NotFnd	1.12	*	1650	1160	3.04	
13C-PCB-126	1.06e+08	1.58	y	42:02	1.25	9420				94.2
PCB-151	*	*	n	NotFnd	0.91	*	900	752	2.07	
PCB-135	*	*	n	NotFnd	0.86	*	900	752	2.20	
PCB-144	*	*	n	NotFnd	1.09	*	900	752	1.73	
PCB-147	*	*	n	NotFnd	1.01	*	900	752	1.86	
PCB-139	*	*	n	NotFnd	1.04	*	900	752	1.81	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	1.04	*	900	752	1.81	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	1.03	*	900	752	1.82	
PCB-143	*	*	n	NotFnd	0.84	*	900	752	2.25	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.84	*	900	752	2.25	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.85	*	900	752	2.22	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.85	*	900	752	2.22	Co-elute PCB 131
PCB-142	7.45e+07	1.27	y	39:29	0.85	9330	-	-	*	
PCB-165	*	*	n	NotFnd	1.12	*	900	752	1.68	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.12	*	900	752	1.68	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	1.04	*	900	752	1.81	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	1.04	*	900	752	1.81	Co-elute PCB 161
PCB-153	4.62e+05	1.25	y	40:09	1.16	42.3	-	-	*	
PCB-168	*	*	n	NotFnd	1.25	*	900	752	1.51	
PCB-141	*	*	n	NotFnd	0.94	*	900	752	2.01	
PCB-137	*	*	n	NotFnd	0.86	*	900	752	2.19	
PCB-130	*	*	n	NotFnd	0.90	*	900	752	2.10	
PCB-138	*	*	n	NotFnd	1.13	*	900	752	1.67	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.13	*	900	752	1.67	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.13	*	900	752	1.67	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.25	*	900	752	1.51	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.25	*	900	752	1.51	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.81	*	900	752	2.34	
PCB-166	*	*	n	NotFnd	1.18	*	900	752	1.59	
PCB-159	*	*	n	NotFnd	1.27	*	900	752	1.49	
PCB-128	*	*	n	NotFnd	1.05	*	900	752	1.80	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	1.05	*	900	752	1.80	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.15	*	900	752	1.65	
13C-PCB-167	9.53e+07	1.27	y	43:25	1.14	9270				92.7
PCB-156	*	*	n	NotFnd	1.21	*	900	752	1.74	
13C-PCB-156	9.17e+07	1.28	y	44:39	1.12	9050				90.5
PCB-157	*	*	n	NotFnd	1.17	*	900	752	1.69	
13C-PCB-157	9.47e+07	1.29	y	44:54	1.15	9100				91.0
PCB-169	*	*	n	NotFnd	1.10	*	900	752	1.45	
13C-PCB-169	9.35e+07	1.28	y	46:46	1.07	9640				96.4

FAL ID: 12510-003-0001-SA Filename: 31JUL19Z Sam:7 Acquired: 31-JUL-19 18:15:38 ICal: DAILY209FAL4-7-31-19
Client ID: LDW-Y2-IN-S010-TB ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

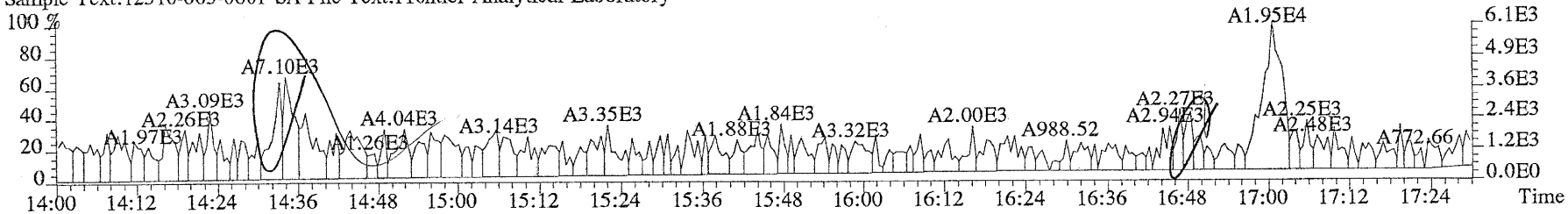
PCB-188	*	*	n	NotFnd	1.05	*	1140	568	2.06	
13C-PCB-188	9.30e+07	1.05	y	39:41	1.18	8750				87.5
PCB-184	4.16e+07	1.05	y	40:09	1.20	3940	-	-	*	
PCB-179	*	*	n	NotFnd	1.13	*	1140	568	1.69	
PCB-176	*	*	n	NotFnd	1.10	*	1140	568	1.73	
PCB-186	*	*	n	NotFnd	1.11	*	1140	568	1.71	
PCB-178	*	*	n	NotFnd	0.76	*	1140	568	2.51	
PCB-175	*	*	n	NotFnd	0.77	*	1140	568	2.48	
PCB-187	*	*	n	NotFnd	0.87	*	1140	568	2.18	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.87	*	1140	568	2.18	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.86	*	1140	568	2.21	
PCB-185	*	*	n	NotFnd	0.77	*	1140	568	2.46	
PCB-174	*	*	n	NotFnd	0.79	*	1140	568	2.41	
PCB-181	*	*	n	NotFnd	0.78	*	1140	568	2.44	
PCB-177	*	*	n	NotFnd	0.70	*	1140	568	2.71	
PCB-171	*	*	n	NotFnd	0.77	*	1140	568	2.47	
PCB-173	*	*	n	NotFnd	0.68	*	1140	568	2.78	
PCB-172	5.93e+05	0.99	y	45:25	0.72	94.1	-	-	*	
PCB-192	2.68e+07	1.04	y	45:36	0.97	3140	-	-	*	
PCB-180	*	*	n	NotFnd	0.75	*	1140	568	2.54	
PCB-193	*	*	n	NotFnd	1.05	*	1140	568	1.81	
PCB-191	*	*	n	NotFnd	0.99	*	1140	568	1.92	
PCB-170	*	*	n	NotFnd	0.71	*	1140	568	2.66	
PCB-190	*	*	n	NotFnd	0.96	*	1140	568	1.98	
PCB-189	*	*	n	NotFnd	1.00	*	1140	568	1.62	
13C-PCB-189	8.28e+07	1.06	y	48:26	1.01	9100				91.0
PCB-202	*	*	n	NotFnd	1.02	*	276	588	1.19	
PCB-201	*	*	n	NotFnd	1.10	*	276	588	1.10	
PCB-204	6.34e+07	0.89	y	45:25	1.11	7630	-	-	*	
PCB-197	4.02e+05	1.00	y	45:40	1.15	47.0	-	-	*	
PCB-200	*	*	n	NotFnd	1.11	*	276	588	1.09	
PCB-198	*	*	n	NotFnd	0.78	*	276	588	1.56	
PCB-199	*	*	n	NotFnd	0.74	*	276	588	1.63	
PCB-203	*	*	n	NotFnd	0.83	*	276	588	1.45	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.83	*	276	588	1.45	Co-elute PCB 203
13C-PCB-202	7.47e+07	0.89	y	44:49	0.95	8740				87.4
13C-PCB-178	6.46e+07	1.06	y	42:19	0.80	8960				89.6
13C-PCB-138	9.03e+07	1.30	y	41:33	-	121				
PCB-195	*	*	n	NotFnd	0.78	*	1500	1710	3.57	
PCB-194	*	*	n	NotFnd	0.86	*	1500	1710	3.25	
PCB-205	*	*	n	NotFnd	1.09	*	1500	1710	2.56	
13C-PCB-205	8.35e+07	0.89	y	50:05	1.29	8680				86.8
PCB-208	*	*	n	NotFnd	1.05	*	600	672	1.30	
13C-PCB-208	7.85e+07	0.81	y	49:10	1.15	9110				91.1
PCB-207	2.62e+05	1.35	y	49:28	1.23	31.3	-	-	*	
PCB-206	*	*	n	NotFnd	1.08	*	600	672	1.58	
13C-PCB-206	5.70e+07	0.80	y	51:17	0.88	8680				86.8
PCB-209	2.96e+05	1.10	y	52:30	1.13	38.2	-	-	*	
13C-PCB-209	6.85e+07	1.20	y	52:29	1.08	8490				84.9
13C-PCB-194	7.46e+07	0.91	y	49:50	-	104				

Analyst: _____ Date: 8/1/19

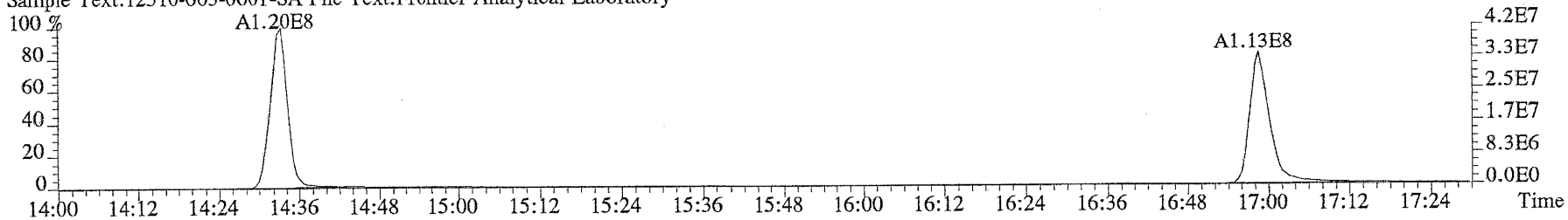
File:31JUL19Z #1-784 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



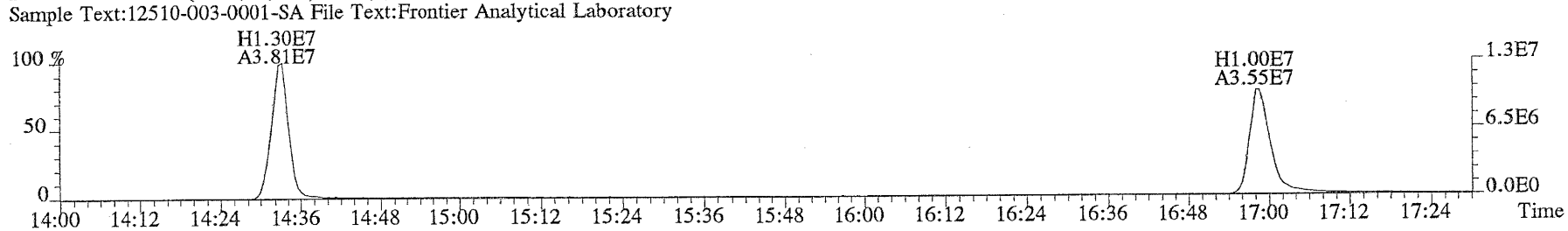
File:31JUL19Z #1-784 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



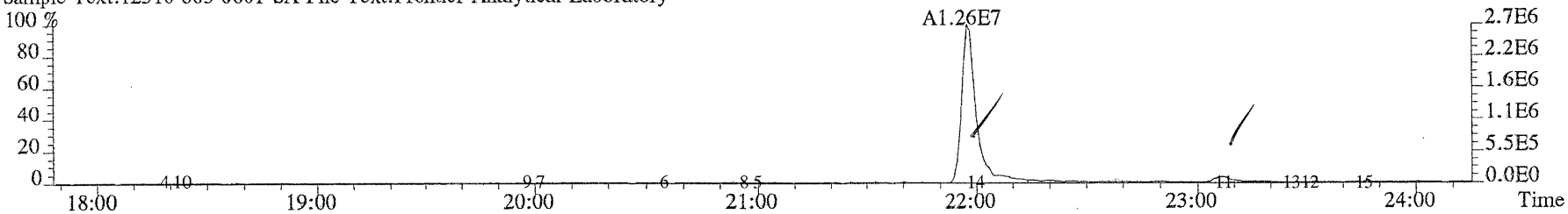
File:31JUL19Z #1-784 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



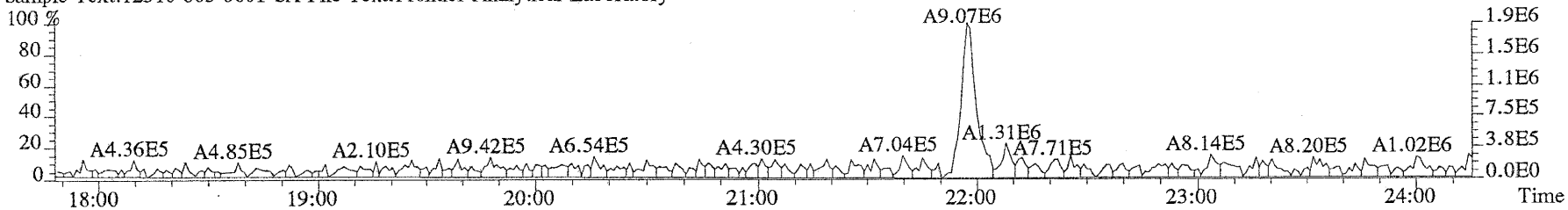
File:31JUL19Z #1-784 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:7 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



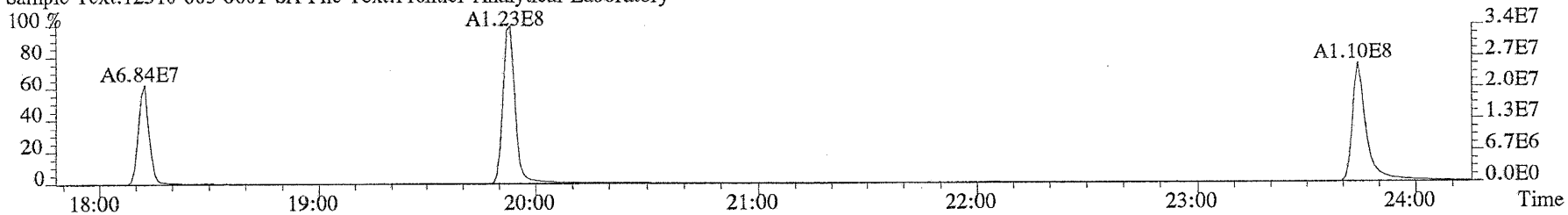
File:31JUL19Z #1-520 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



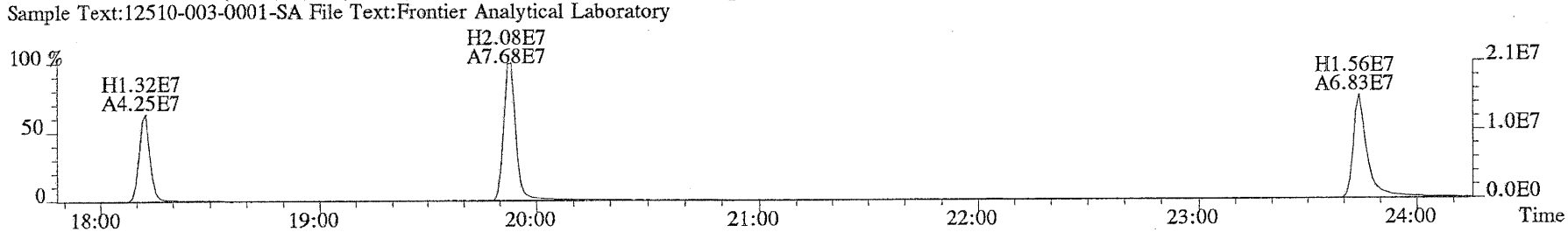
File:31JUL19Z #1-520 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



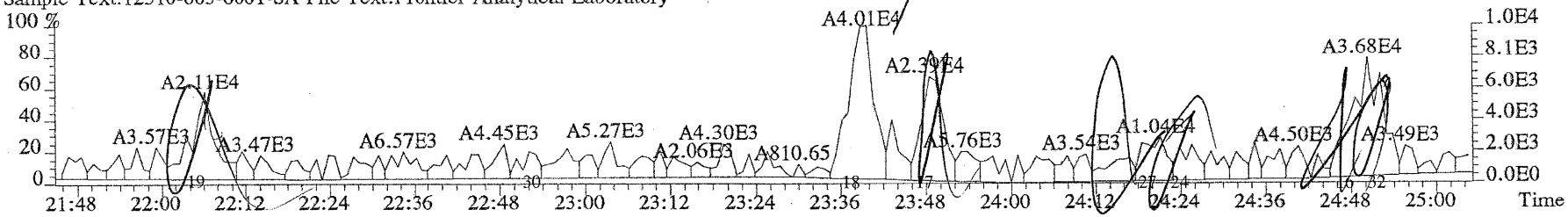
File:31JUL19Z #1-520 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



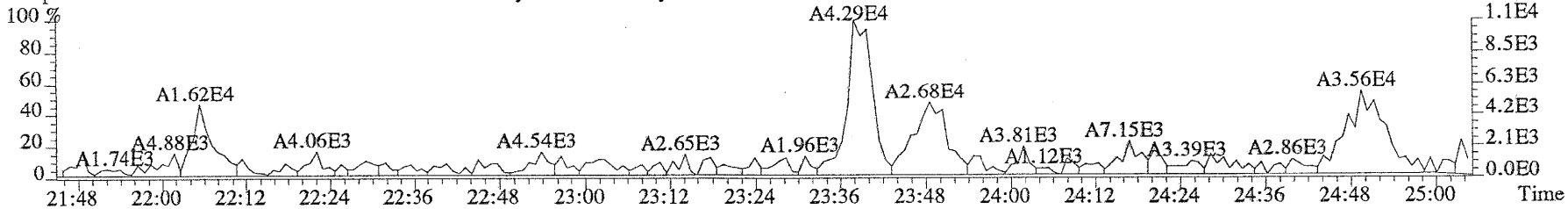
File:31JUL19Z #1-520 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



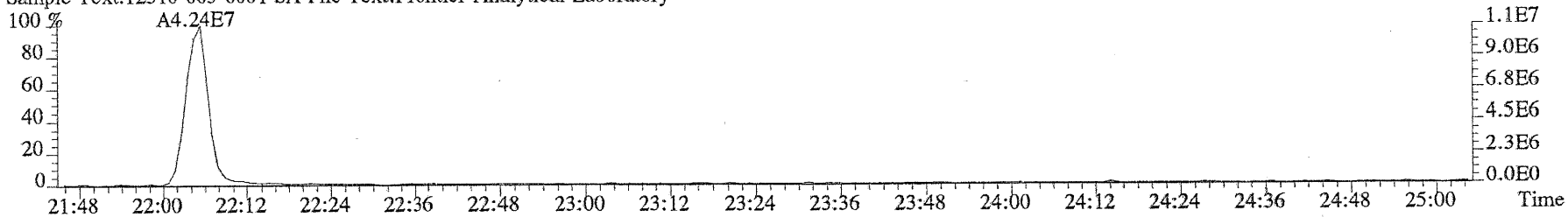
File:31JUL19Z #1-520 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



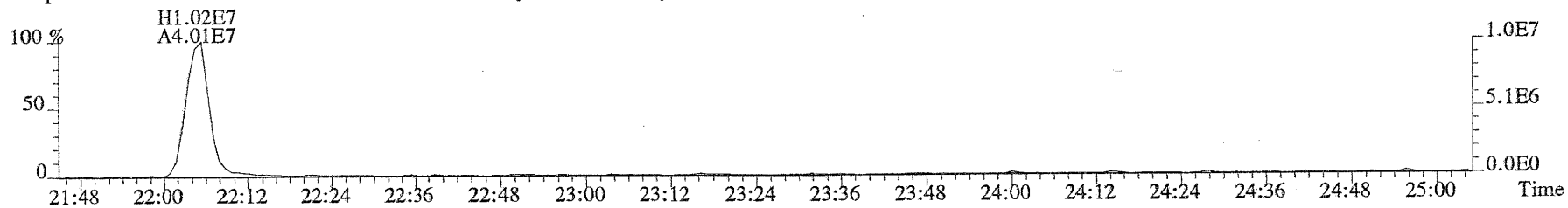
File:31JUL19Z #1-520 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



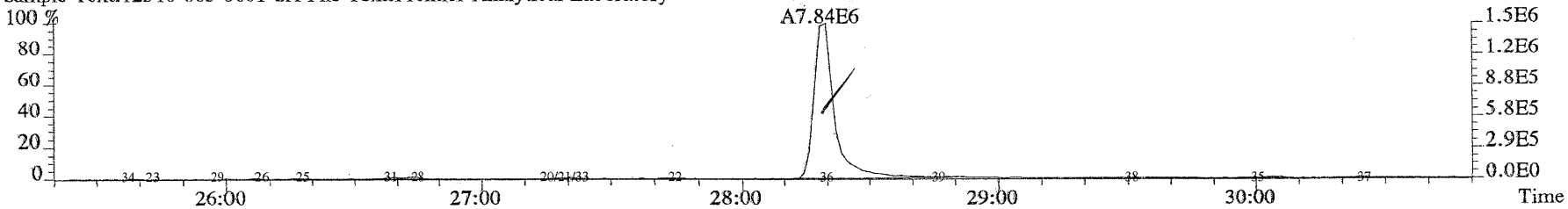
File:31JUL19Z #1-520 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



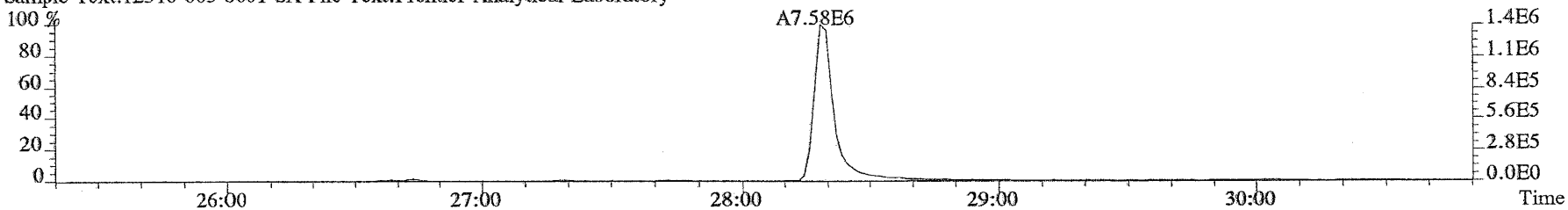
File:31JUL19Z #1-520 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



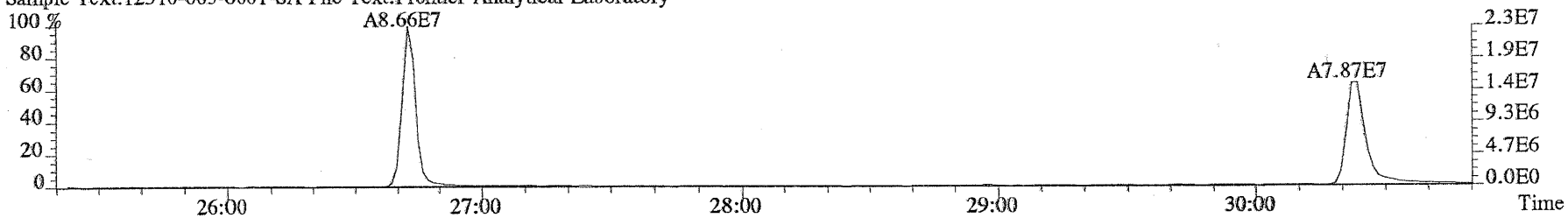
File:31JUL19Z #1-401 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



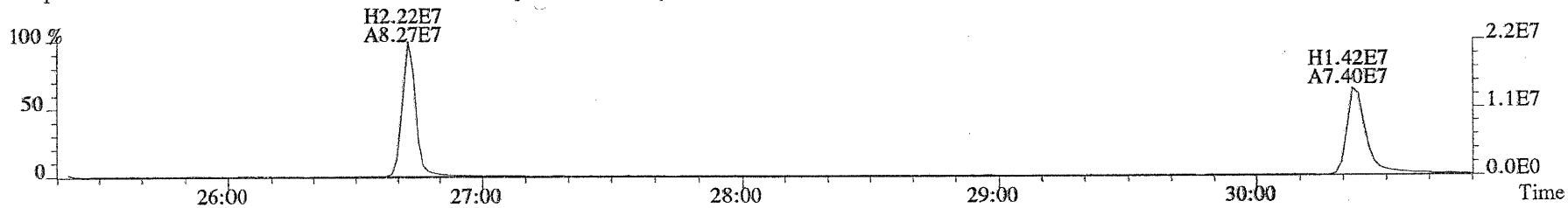
File:31JUL19Z #1-401 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



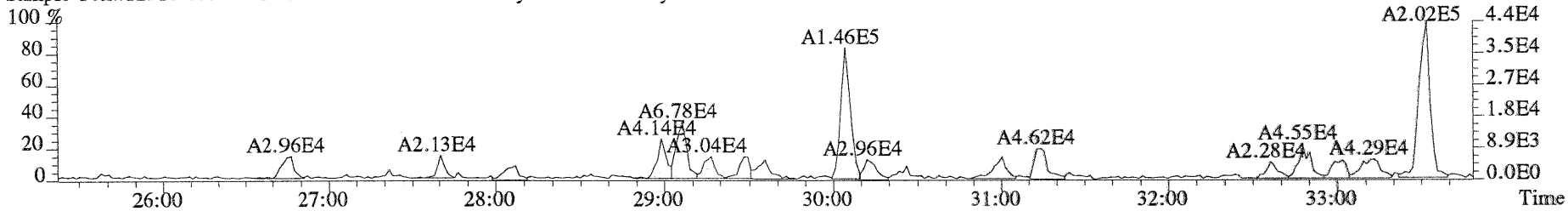
File:31JUL19Z #1-401 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



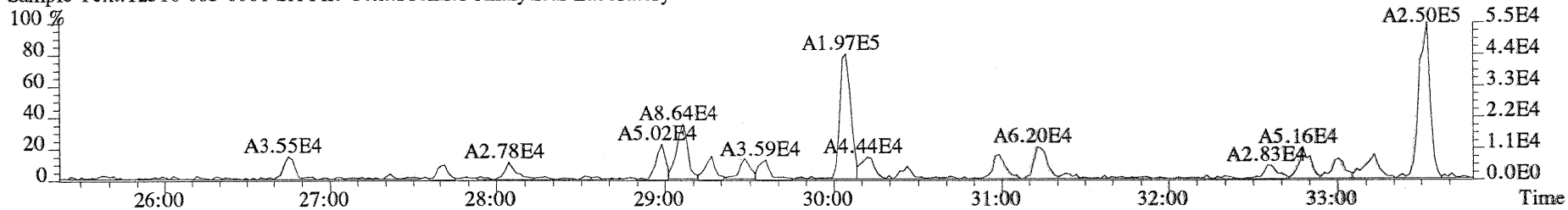
File:31JUL19Z #1-401 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



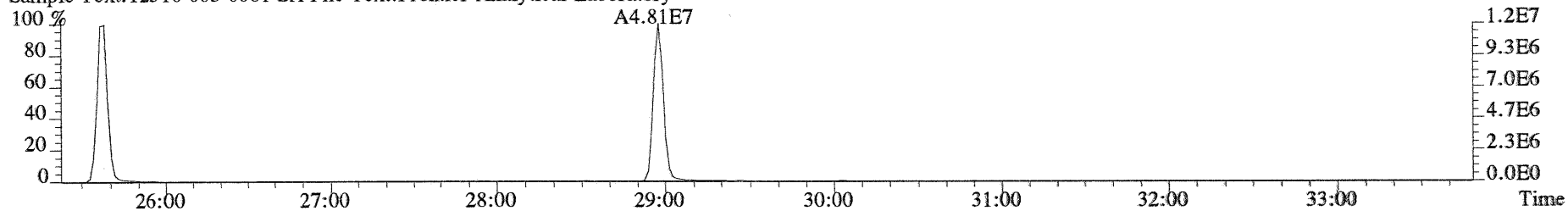
File:31JUL19Z #1-401 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



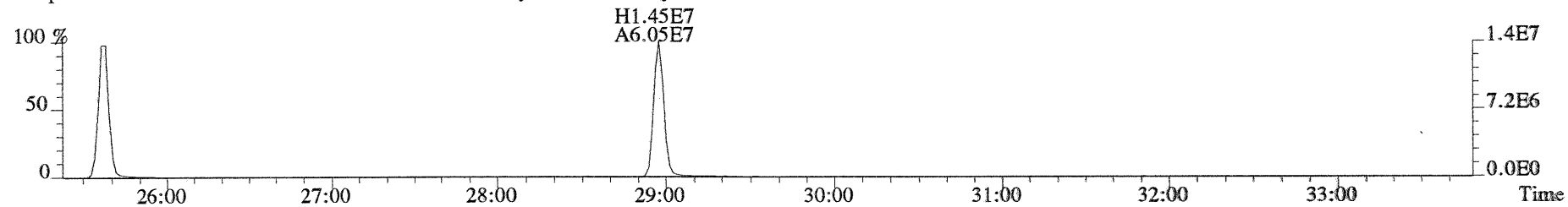
File:31JUL19Z #1-401 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:3 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



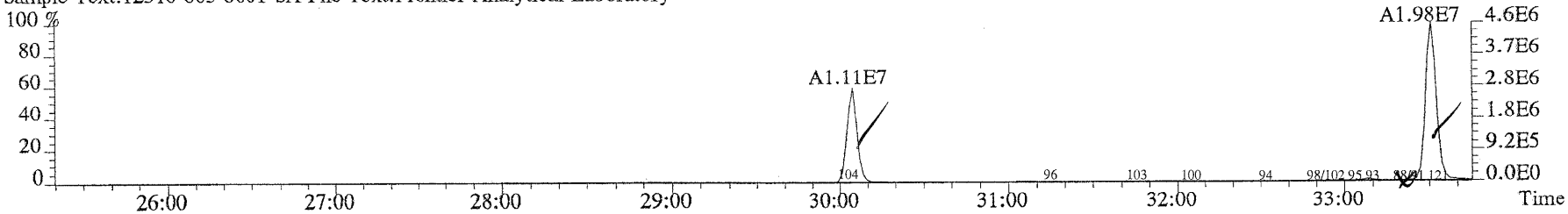
File:31JUL19Z #1-401 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



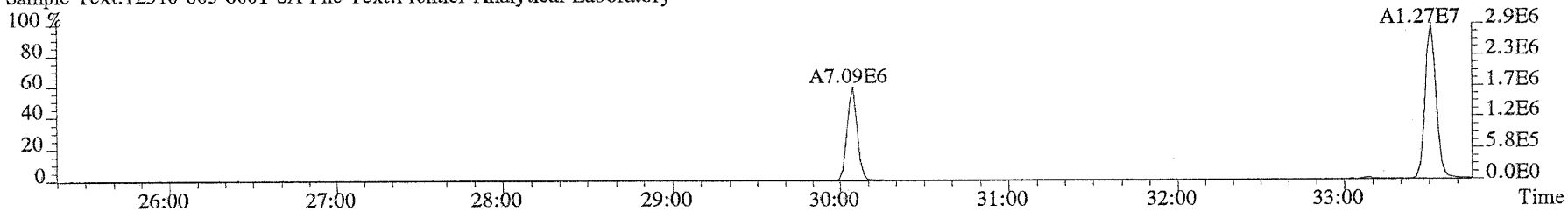
File:31JUL19Z #1-401 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



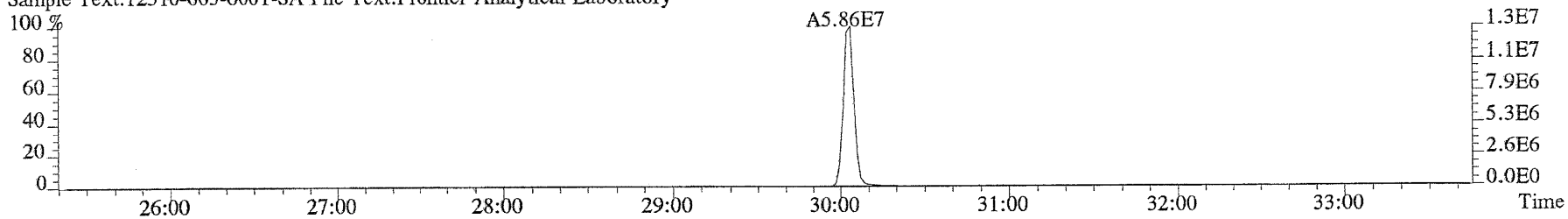
File:31JUL19Z #1-401 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



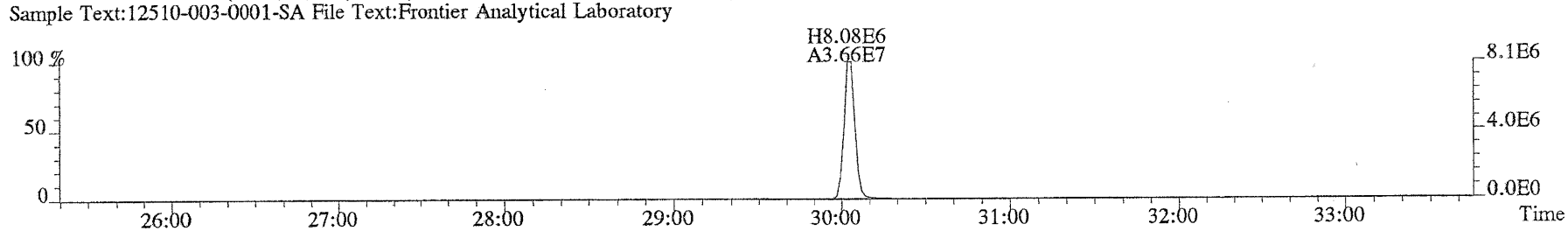
File:31JUL19Z #1-401 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



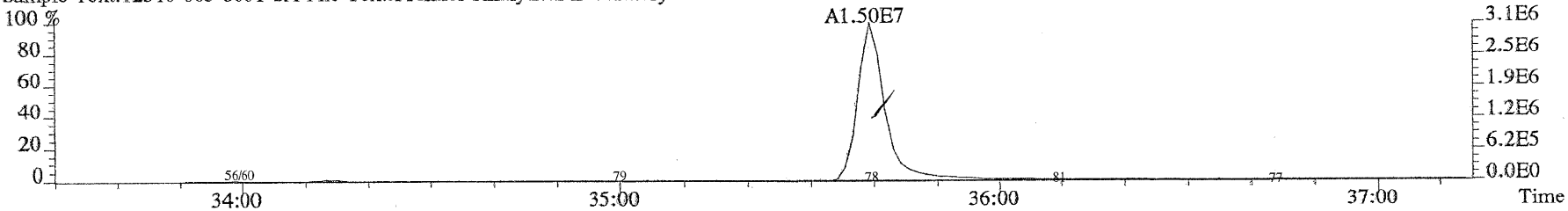
File:31JUL19Z #1-401 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



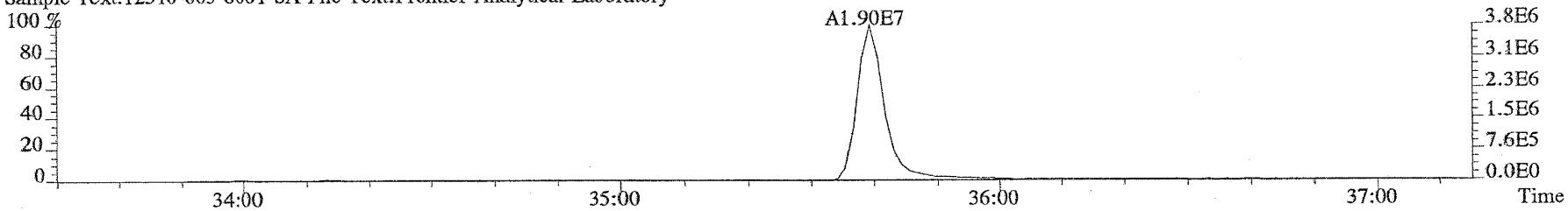
File:31JUL19Z #1-401 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



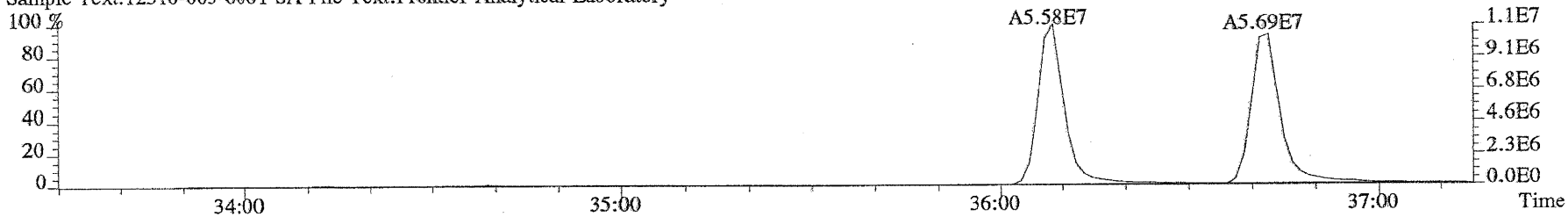
File:31JUL19Z #1-181 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



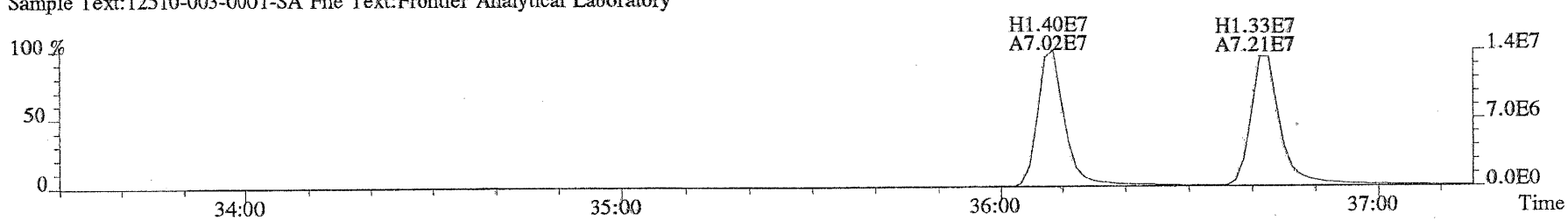
File:31JUL19Z #1-181 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



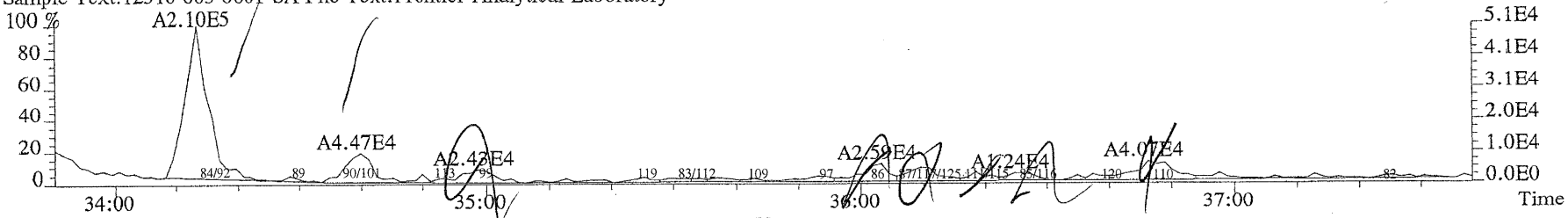
File:31JUL19Z #1-181 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



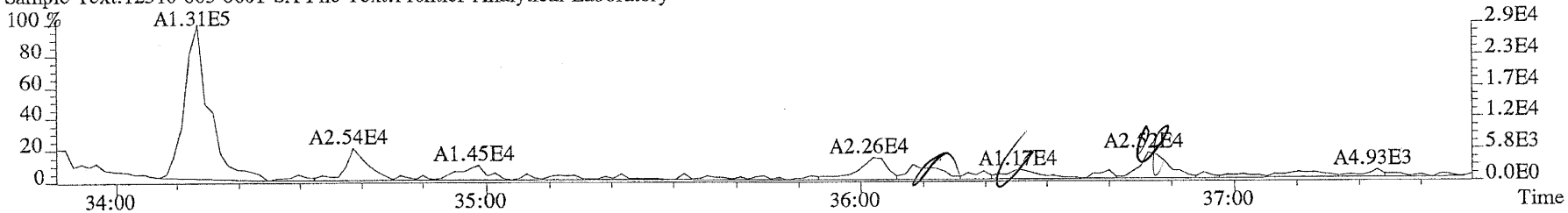
File:31JUL19Z #1-181 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



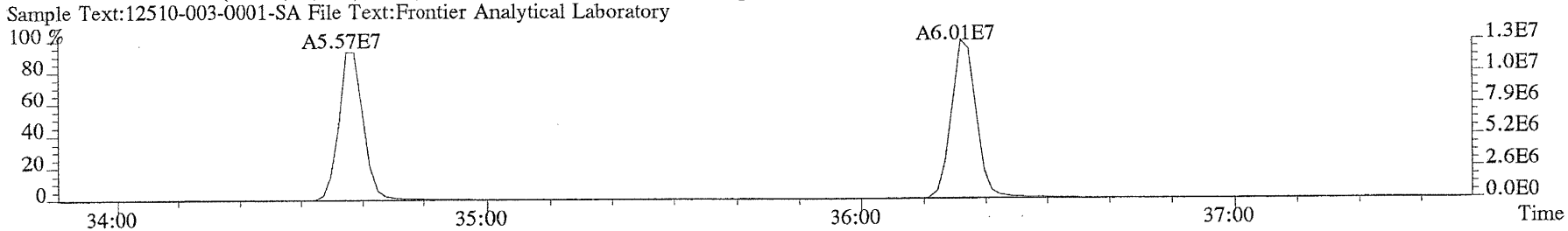
File:31JUL19Z #1-181 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



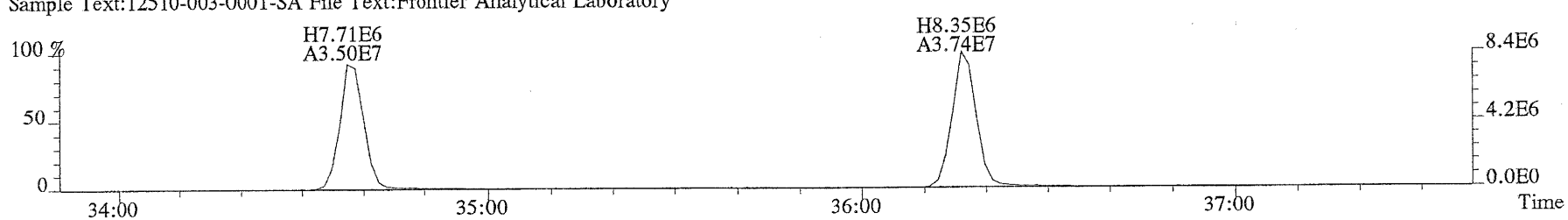
File:31JUL19Z #1-181 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



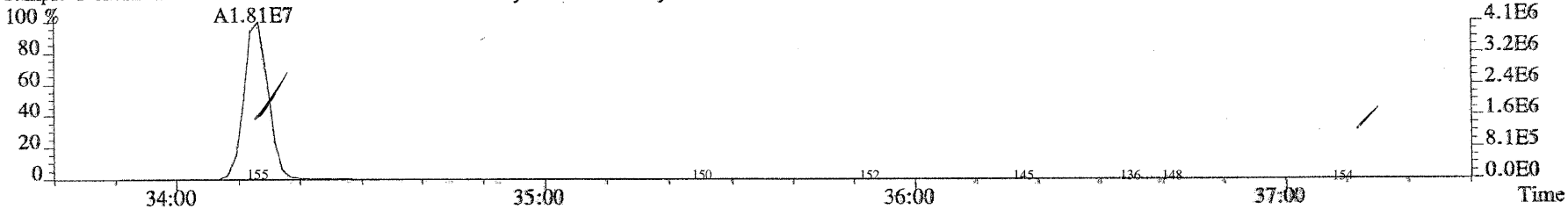
File:31JUL19Z #1-181 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



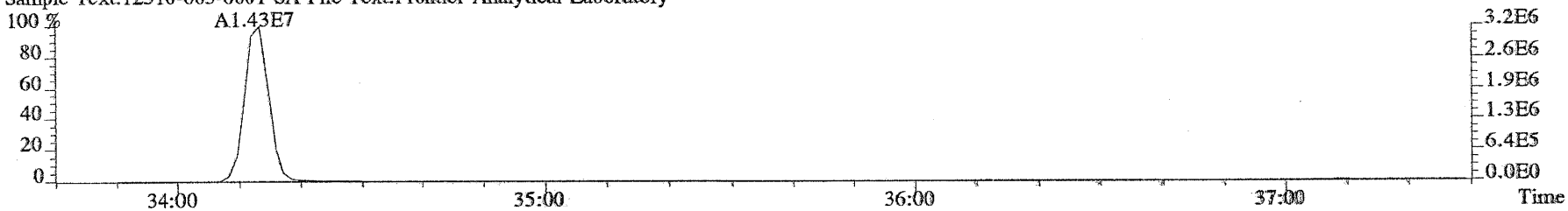
File:31JUL19Z #1-181 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



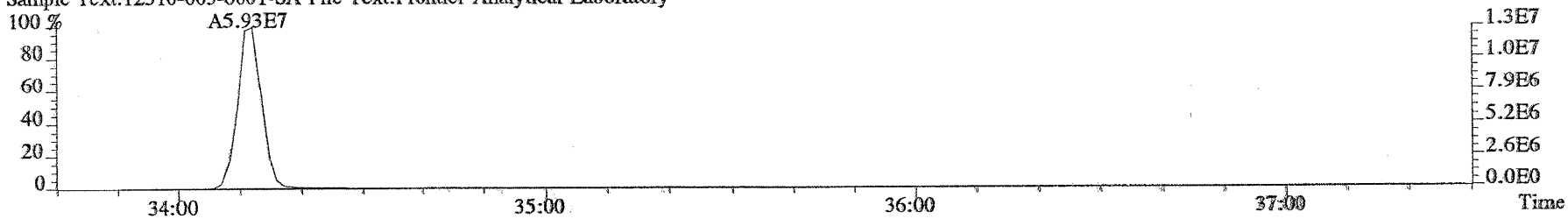
File:31JUL19Z #1-181 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



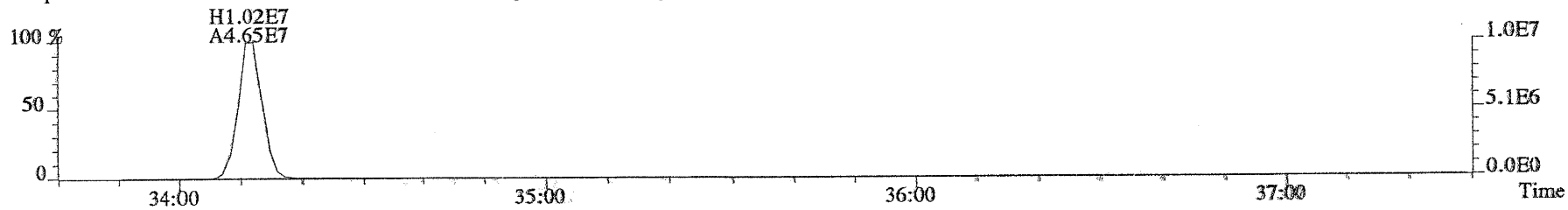
File:31JUL19Z #1-181 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



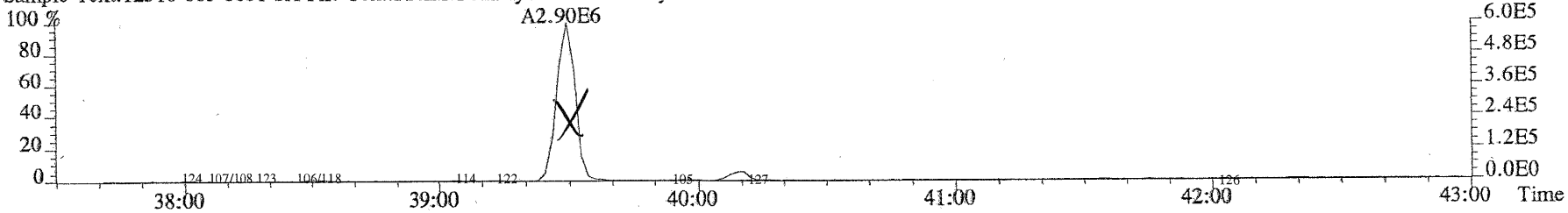
File:31JUL19Z #1-181 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



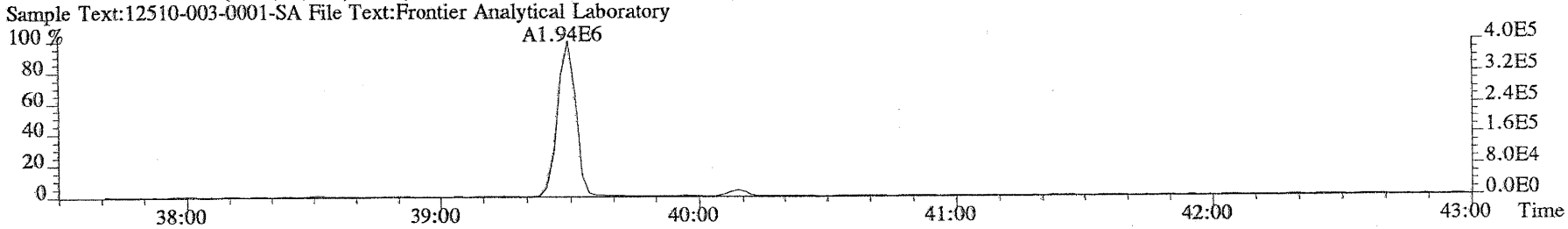
File:31JUL19Z #1-181 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



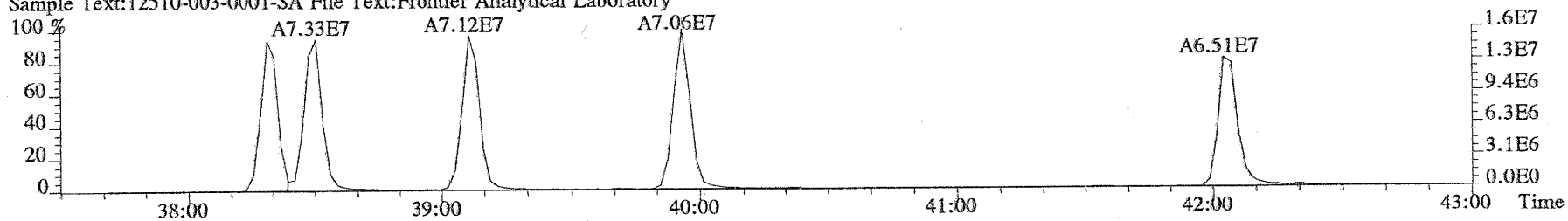
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



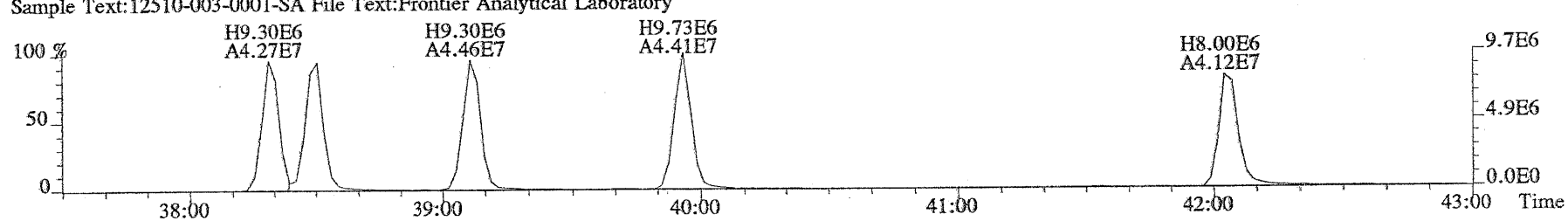
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



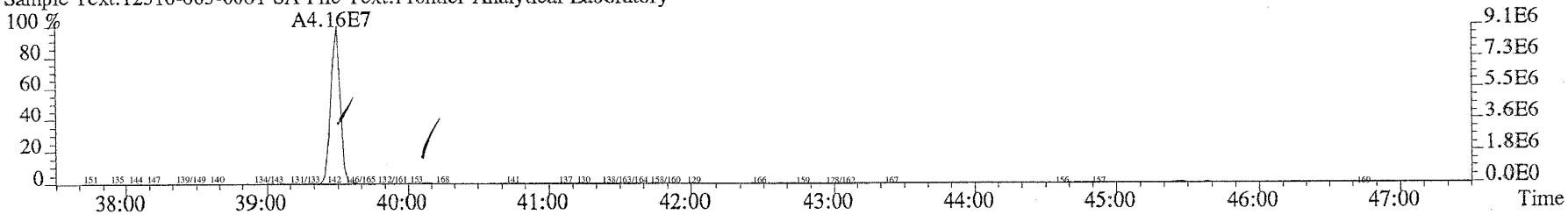
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



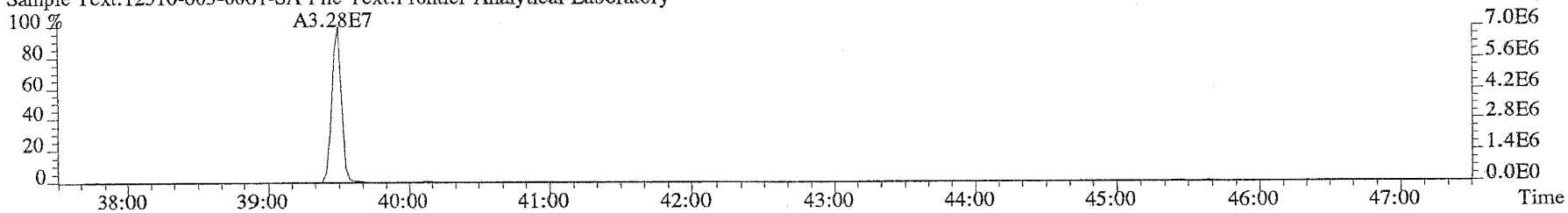
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



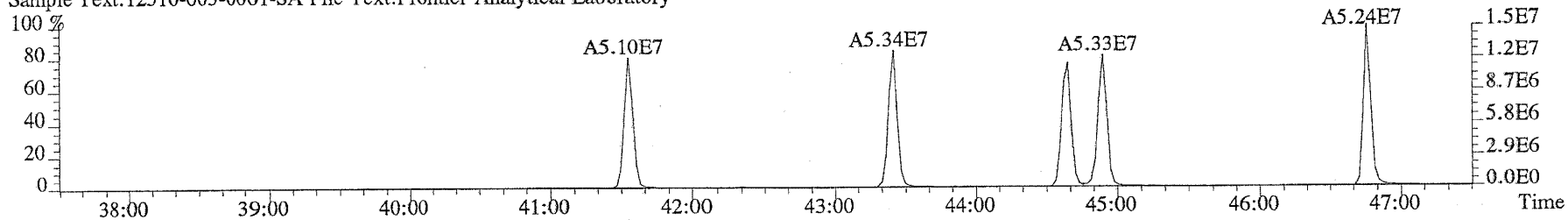
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



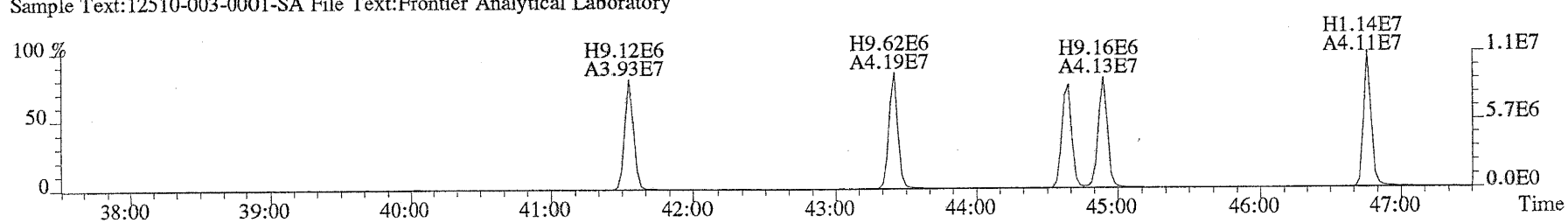
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



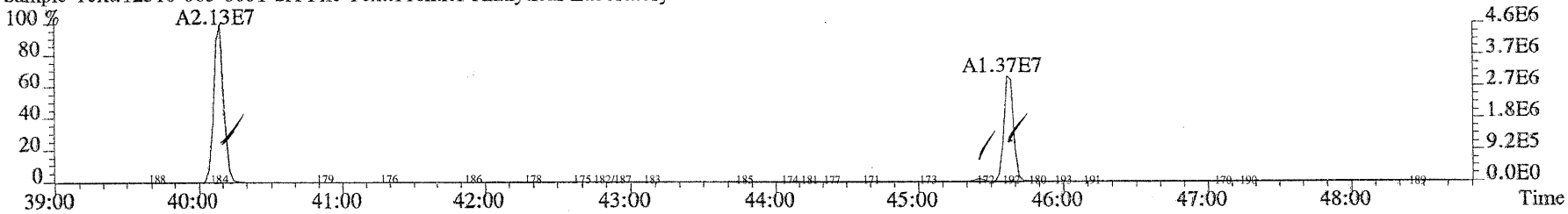
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



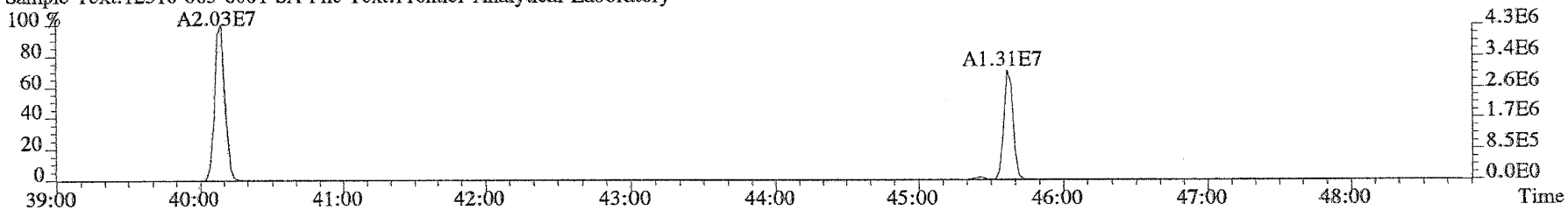
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



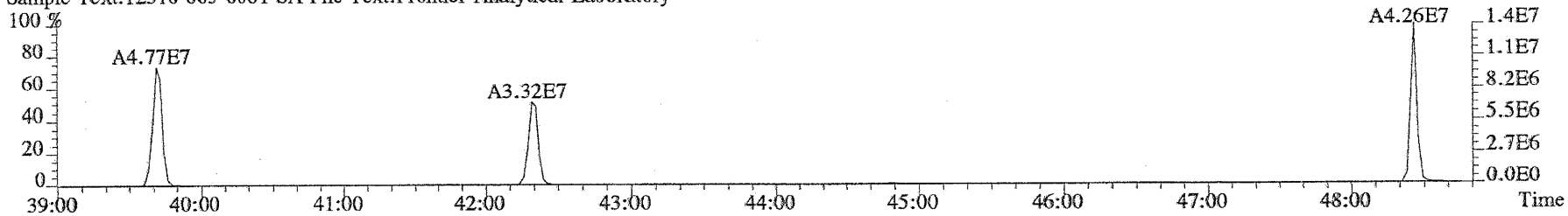
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



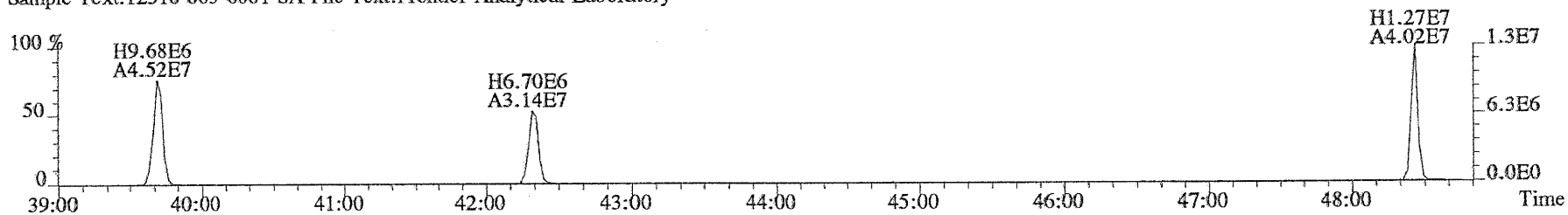
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



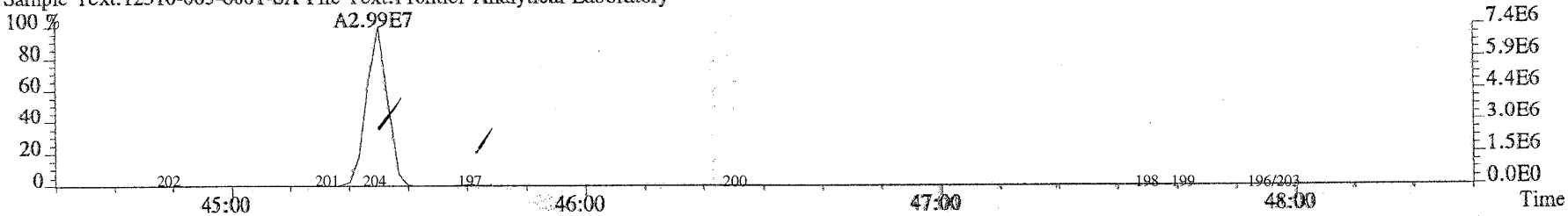
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



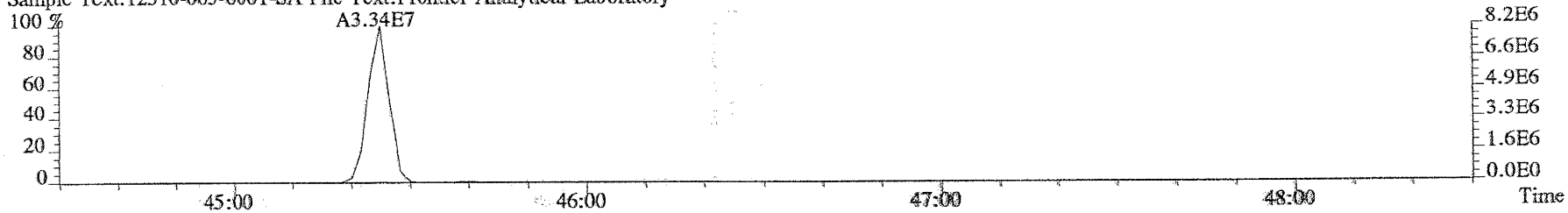
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



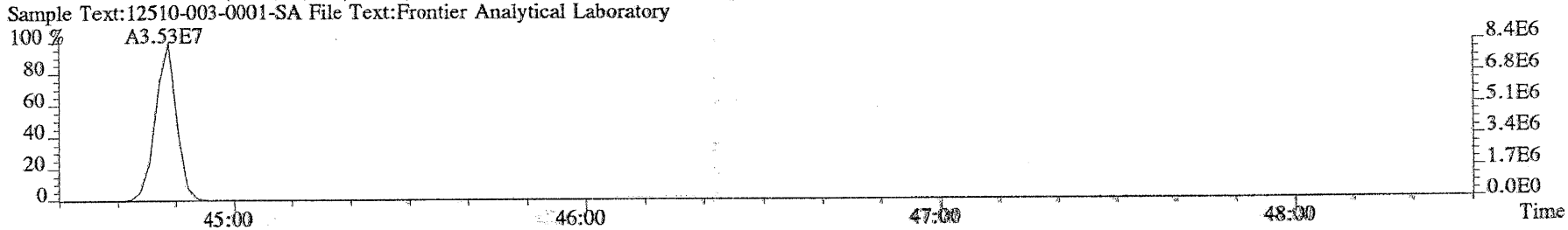
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



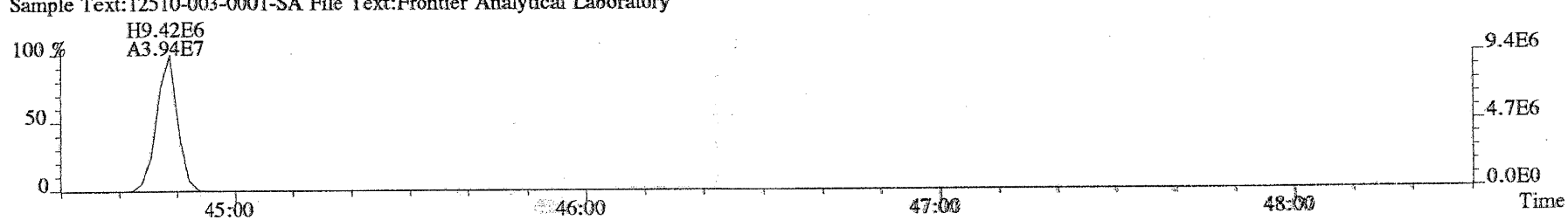
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



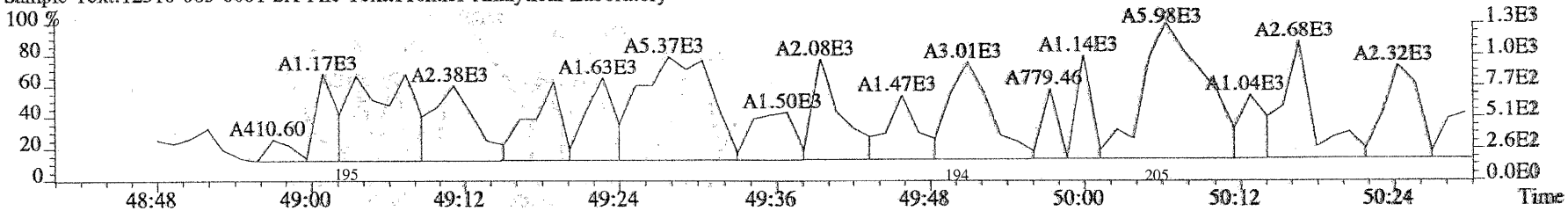
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



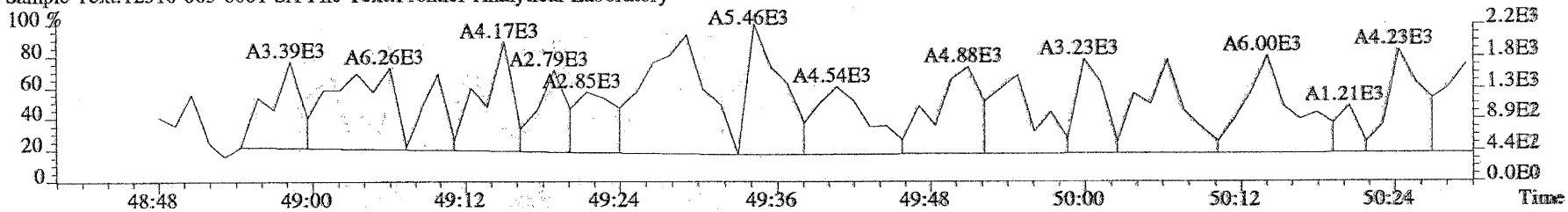
File:31JUL19Z #1-405 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



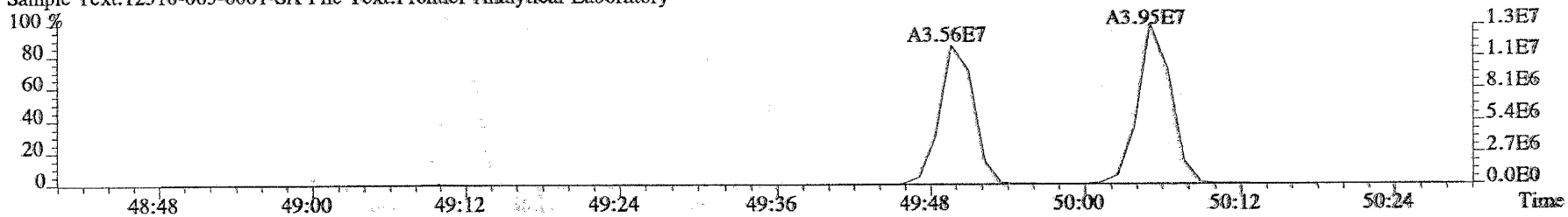
File:31JUL19Z #1-315 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



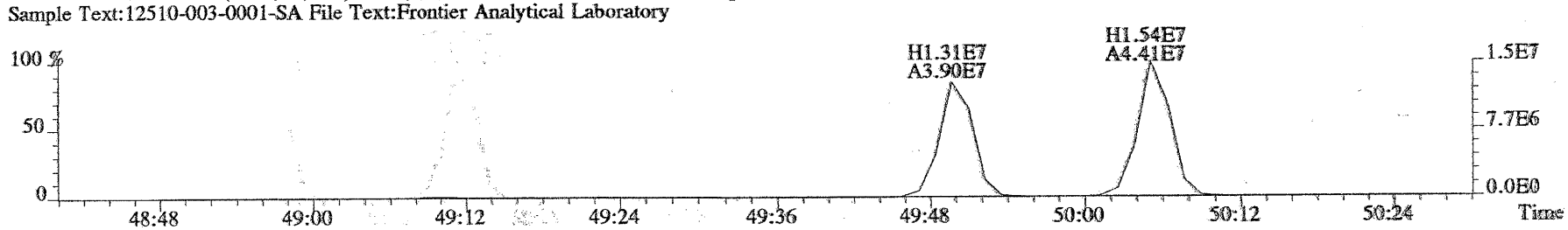
File:31JUL19Z #1-315 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



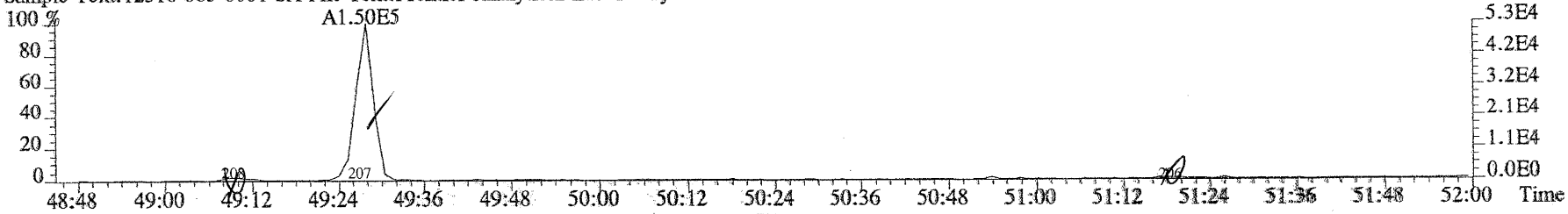
File:31JUL19Z #1-315 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



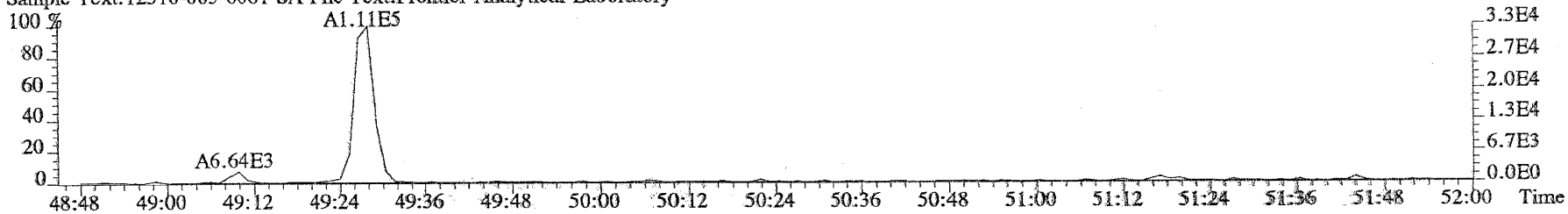
File:31JUL19Z #1-315 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



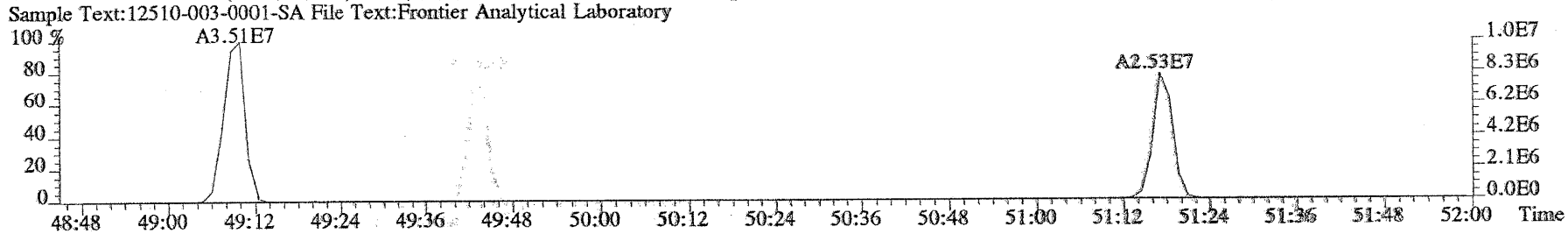
File:31JUL19Z #1-315 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



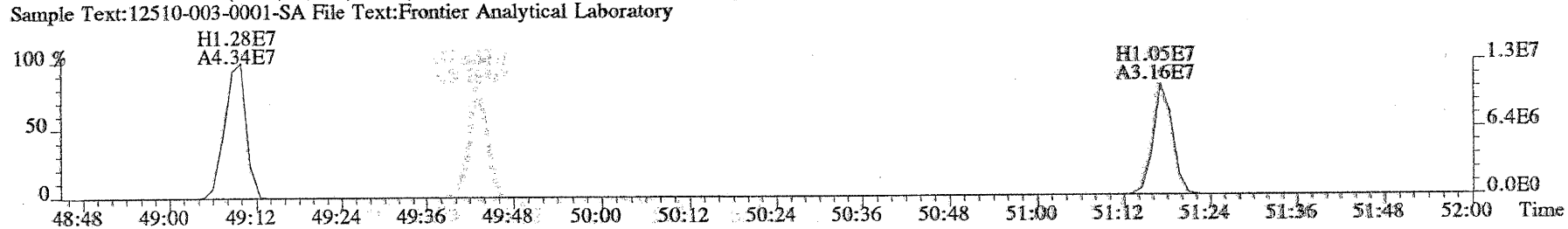
File:31JUL19Z #1-315 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



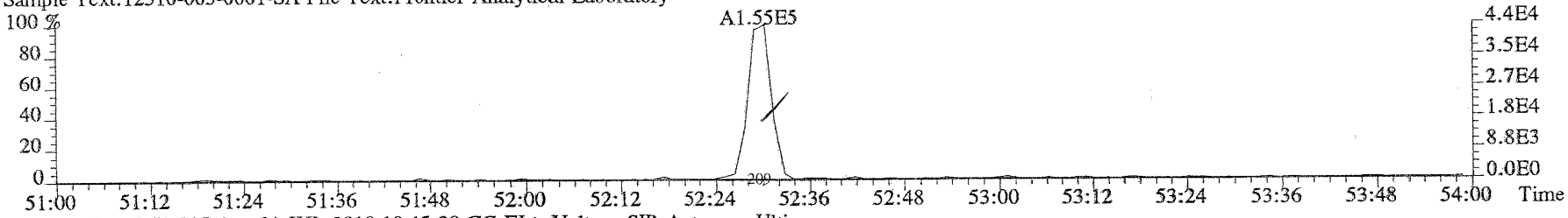
File:31JUL19Z #1-315 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



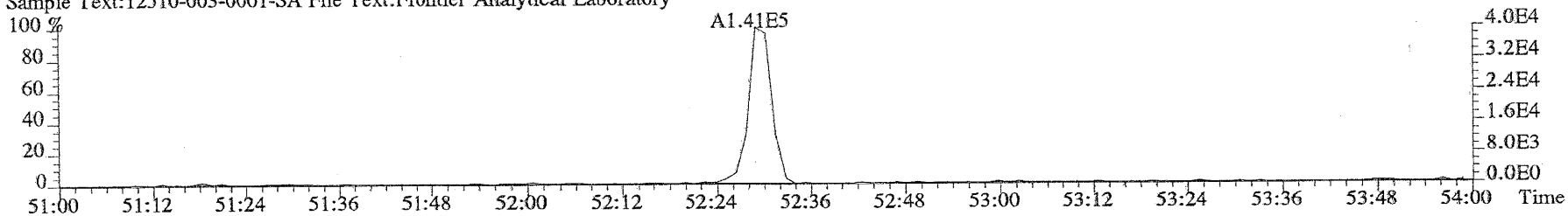
File:31JUL19Z #1-315 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



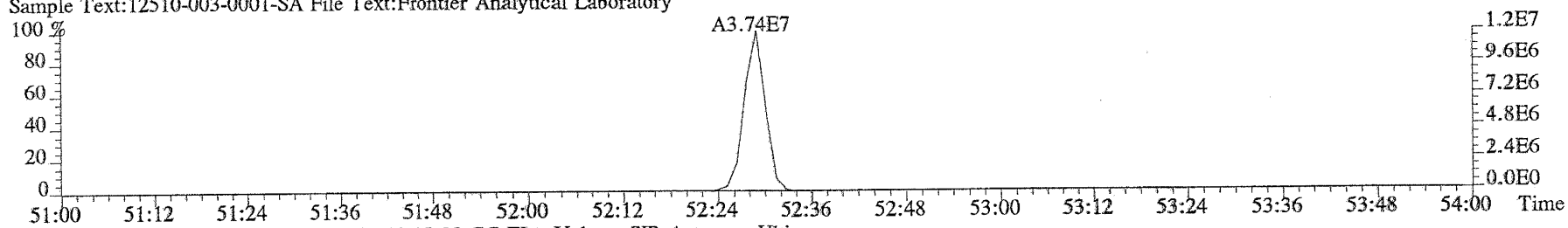
File:31JUL19Z #1-315 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



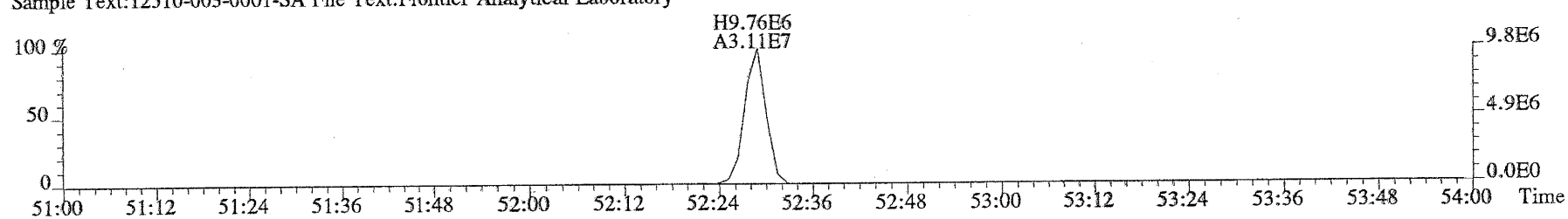
File:31JUL19Z #1-315 Acq:31-JUL-2019 18:15:38 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-003-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 18:15:38 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:12510-003-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 18:15:38 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:12510-003-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12510-004-0001-SA Filename: 31JUL19Z Sam:8 Acquired: 31-JUL-19 19:13:59 ICal: DAILY209FAL4-7-31-19
Client ID: LDW-Y2-SU-ENR+AC-CA-S010 ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.08e+05	3.07 y	14:33	1.20	12.4	J	-	-	*	
13C-PCB-1	7.20e+07	3.17 y	14:31	0.94	8300					83.0
PCB-2	*	* n	NotFnd	1.19	*		2180	1480	3.66	
PCB-3	*	* n	NotFnd	1.22	*		2180	1480	3.99	
13C-PCB-3	6.75e+07	3.24 y	16:58	0.88	8280					82.8
PCB-4	2.36e+06	1.42 y	18:13	1.16	383		-	-	*	
PCB-10	3.41e+05	1.44 y	18:16	1.41	37.1		-	-	*	
13C-PCB-4	5.32e+07	1.58 y	18:11	0.67	8560					85.6
PCB-9	6.20e+05	1.34 y	19:54	1.44	65.9		-	-	*	
PCB-7	5.11e+05	1.41 y	19:56	1.43	55.1		-	-	*	
PCB-6	2.41e+06	1.41 y	20:32	1.49	248		-	-	*	
PCB-8	8.54e+06	1.48 y	20:54	1.36	968		-	-	*	
PCB-5	*	* n	NotFnd	1.45	*		984	7940	9.54	
PCB-14	4.28e+06	1.43 y	21:57	1.36	482		-	-	*	
PCB-11	6.97e+05	1.50 y	23:06	1.24	86.1		-	-	*	
PCB-13	1.71e+05	1.61 y	23:26	1.24	21.1		-	-	*	
PCB-12	1.63e+05	1.47 y	23:28	1.28	19.5	J	-	-	*	
PCB-15	2.33e+06	1.38 y	23:45	1.16	262		-	-	*	
13C-PCB-15	7.69e+07	1.60 y	23:44	0.91	9090					90.9
PCB-19	2.45e+06	1.08 y	22:06	1.16	526		-	-	*	
PCB-30	*	* n	NotFnd	1.70	*		2300	696	4.05	
PCB-18	3.19e+07	1.07 y	23:39	1.12	7110		-	-	*	
PCB-17	1.52e+07	1.09 y	23:49	1.27	2990		-	-	*	
PCB-27	1.75e+06	0.98 y	24:20	1.62	270		-	-	*	
PCB-24	1.76e+06	1.15 y	24:21	1.68	262		-	-	*	
PCB-16	1.03e+07	1.05 y	24:49	1.38	1870		-	-	*	
PCB-32	1.14e+07	1.07 y	24:51	1.46	1950		-	-	*	
13C-PCB-19	4.00e+07	1.08 y	22:05	0.49	8760					87.6
13C-PCB-9	9.26e+07	1.59 y	19:52	-	54.7					
PCB-34	3.37e+05	1.09 y	25:37	1.23	40.7		-	-	*	
PCB-23	1.10e+05	1.18 y	25:43	1.39	11.8	J	-	-	*	
PCB-29	5.35e+05	1.04 y	25:57	1.33	59.6		-	-	*	
PCB-26	9.72e+06	1.06 y	26:08	1.26	1150		-	-	*	
PCB-25	4.87e+06	1.16 y	26:17	1.26	576		-	-	*	
PCB-31	4.49e+07	1.04 y	26:37	1.19	5600		-	-	*	
PCB-28	5.01e+07	1.08 y	26:42	1.60	4660		-	-	*	
PCB-20	2.98e+07	1.06 y	27:19	1.25	3550		-	-	*	Co-elute PCB 21/33
PCB-21	2.98e+07	1.06 y	27:19	1.25	3550		-	-	*	Co-elute PCB 20/33
PCB-33	2.98e+07	1.06 y	27:19	1.25	3550		-	-	*	Co-elute PCB 20/21
PCB-22	1.67e+07	1.07 y	27:43	1.40	1780		-	-	*	
PCB-36	5.61e+06	1.10 y	28:18	1.24	672		-	-	*	
PCB-39	*	* n	NotFnd	1.25	*		1750	1890	5.71	
PCB-38	2.71e+05	1.18 y	29:28	1.27	31.8		-	-	*	
PCB-35	2.62e+05	1.07 y	30:01	1.14	34.1		-	-	*	
PCB-37	6.53e+06	1.03 y	30:25	1.21	803		-	-	*	
13C-PCB-37	6.74e+07	1.07 y	30:23	1.51	9360					93.6

PCB-54	1.51e+05	0.82	y	25:39	1.24	23.8	-	-	*	
PCB-50	1.48e+05	0.84	y	26:45	0.93	31.2	-	-	*	
PCB-53	6.23e+06	0.79	y	27:21	0.90	1360	-	-	*	
PCB-51	2.09e+06	0.82	y	27:40	0.96	427	-	-	*	
PCB-45	6.06e+06	0.79	y	28:06	0.79	1520	-	-	*	
PCB-46	2.46e+06	0.81	y	28:32	0.74	652	-	-	*	
PCB-52	3.34e+07	0.79	y	28:59	0.92	7100	-	-	*	Co-elute PCB 69
PCB-69	3.34e+07	0.79	y	28:59	0.92	7100	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.13	*	1430	1840	5.38	
PCB-43	2.20e+07	0.79	y	29:16	0.82	5300	-	-	*	Co-elute PCB 49
PCB-49	2.20e+07	0.79	y	29:16	0.82	5300	-	-	*	Co-elute PCB 43
PCB-47	7.07e+06	0.78	y	29:28	0.81	1710	-	-	*	
PCB-48	8.74e+06	0.77	y	29:34	1.07	1600	-	-	*	Co-elute PCB 75
PCB-75	8.74e+06	0.77	y	29:34	1.07	1600	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*	1430	1840	5.83	
PCB-62	*	*	n	NotFnd	1.06	*	1430	1840	5.77	
PCB-44	2.19e+07	0.79	y	30:12	0.69	6220	-	-	*	
PCB-42	1.10e+07	0.78	y	30:26	0.90	2390	-	-	*	Co-elute PCB 59
PCB-59	1.10e+07	0.78	y	30:26	0.90	2390	-	-	*	Co-elute PCB 42
PCB-72	2.76e+07	0.78	y	30:59	1.02	5330	-	-	*	Co-elute PCB 41/71/64
PCB-41	2.76e+07	0.78	y	30:59	1.02	5330	-	-	*	Co-elute PCB 72/71/64
PCB-71	2.76e+07	0.78	y	30:59	1.02	5330	-	-	*	Co-elute PCB 72/41/64
PCB-64	2.76e+07	0.78	y	30:59	1.02	5330	-	-	*	Co-elute PCB 72/41/71
PCB-68	3.65e+05	0.77	y	31:14	1.17	61.3	-	-	*	
PCB-40	4.01e+06	0.81	y	31:27	0.65	1200	-	-	*	
PCB-57	1.68e+05	0.73	y	31:47	1.07	30.8	-	-	*	
PCB-67	9.89e+05	0.77	y	32:05	1.03	190	-	-	*	
PCB-58	1.25e+05	0.74	y	32:10	1.14	21.5	-	-	*	
PCB-63	1.10e+06	0.79	y	32:20	1.07	202	-	-	*	
PCB-74	1.15e+07	0.79	y	32:36	1.06	2130	-	-	*	
PCB-61	2.48e+07	0.80	y	32:48	1.00	4860	-	-	*	Co-elute PCB 70
PCB-70	2.48e+07	0.80	y	32:48	1.00	4860	-	-	*	Co-elute PCB 61
PCB-76	2.08e+07	0.79	y	33:00	1.11	3680	-	-	*	Co-elute PCB 66
PCB-66	2.08e+07	0.79	y	33:00	1.11	3680	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.29	*	1430	1840	4.71	
PCB-55	9.75e+05	0.82	y	33:31	1.13	170	-	-	*	
13C-PCB-54	5.09e+07	0.82	y	25:37	1.34	7960				79.6
PCB-104	1.08e+07	1.57	y	30:05	1.09	2170	-	-	*	
PCB-96	2.88e+05	1.42	y	31:15	1.05	60.7	-	-	*	
PCB-103	2.18e+05	1.39	y	31:46	0.84	57.4	-	-	*	
PCB-100	1.18e+05	1.34	y	32:07	0.85	30.5	-	-	*	
PCB-94	9.52e+04	1.43	y	32:34	0.70	30.2	-	-	*	
PCB-98	*	*	n	NotFnd	0.70	*	312	468	2.42	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.70	*	312	468	2.42	Co-elute PCB 98
PCB-95	1.30e+07	1.54	y	33:04	0.77	3720	-	-	*	
PCB-93	*	*	n	NotFnd	0.76	*	312	468	2.22	
PCB-88	*	*	n	NotFnd	0.78	*	312	468	2.16	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.78	*	312	468	2.16	Co-elute PCB 88
PCB-121	2.11e+07	1.56	y	33:31	0.97	4820	-	-	*	
13C-PCB-104	4.53e+07	1.57	y	30:03	1.08	8800				88.0
13C-PCB-28	8.03e+07	1.08	y	26:41	1.80	9350				93.5
13C-PCB-52	4.77e+07	0.80	y	28:58	-	58.8				

PCB-56	1.68e+07	0.79	y	33:59	1.15	2380		-	-	*	Co-elute PCB 60
PCB-60	1.68e+07	0.79	y	33:59	1.15	2380		-	-	*	Co-elute PCB 56
PCB-79	2.17e+05	0.69	y	34:59	1.22	28.9		-	-	*	
PCB-78	1.60e+07	0.79	y	35:39	1.19	2200		-	-	*	
PCB-81	6.10e+05	0.75	y	36:11	1.25	80.8		-	-	*	
13C-PCB-81	6.05e+07	0.80	y	36:08	1.49	9330					93.3
PCB-77	1.41e+06	0.75	y	36:44	1.08	210		-	-	*	
13C-PCB-77	6.21e+07	0.80	y	36:42	1.57	9130					91.3
PCB-155	2.09e+07	1.26	y	34:13	1.04	3860		-	-	*	
PCB-150	4.67e+04	1.09	y	35:25	0.98	9.16	J	-	-	*	
PCB-152	*	*	n	NotFnd	0.95	*		660	496	2.25	
PCB-145	*	*	n	NotFnd	0.97	*		660	496	2.19	
PCB-136	2.03e+06	1.28	y	36:36	0.95	409		-	-	*	
PCB-148	*	*	n	NotFnd	0.70	*		660	496	3.07	
PCB-154	1.96e+05	1.23	y	37:09	0.81	46.4		-	-	*	
13C-PCB-155	5.22e+07	1.27	y	34:12	1.37	8800					88.0
13C-PCB-111	5.01e+07	1.60	y	36:17	1.21	9510					95.1
13C-PCB-101	4.34e+07	1.59	y	34:39	-	61.6					
PCB-84	6.95e+06	1.59	y	34:18	0.77	1620		-	-	*	Co-elute PCB 92
PCB-92	6.95e+06	1.59	y	34:18	0.77	1620		-	-	*	Co-elute PCB 84
PCB-89	3.55e+05	1.55	y	34:30	0.76	83.7		-	-	*	
PCB-90	1.47e+07	1.60	y	34:40	0.82	3220		-	-	*	Co-elute PCB 101
PCB-101	1.47e+07	1.60	y	34:40	0.82	3220		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.92	*		859	687	3.28	
PCB-99	6.62e+06	1.58	y	34:59	0.91	1310		-	-	*	
PCB-119	4.54e+05	1.42	y	35:25	1.01	80.6		-	-	*	
PCB-83	7.96e+05	1.44	y	35:34	0.82	173		-	-	*	Co-elute PCB 112
PCB-112	7.96e+05	1.44	y	35:34	0.82	173		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.00	*		859	687	3.02	
PCB-97	1.87e+05	1.45	y	36:02	0.69	48.7		-	-	*	
PCB-86	*	*	n	NotFnd	0.72	*		859	687	4.21	
PCB-125	5.87e+06	1.57	y	36:11	0.90	1170		-	-	*	Co-elute PCB 87/117
PCB-87	5.87e+06	1.57	y	36:11	0.90	1170		-	-	*	Co-elute PCB 125/117
PCB-117	5.87e+06	1.57	y	36:11	0.90	1170		-	-	*	Co-elute PCB 125/87
PCB-111	3.98e+05	1.48	y	36:18	1.01	70.3		-	-	*	Co-elute PCB 115
PCB-115	3.98e+05	1.48	y	36:18	1.01	70.3		-	-	*	Co-elute PCB 111
PCB-85	2.29e+06	1.61	y	36:25	0.91	453		-	-	*	Co-elute PCB 116
PCB-116	2.29e+06	1.61	y	36:25	0.91	453		-	-	*	Co-elute PCB 85
PCB-120	8.12e+04	1.43	y	36:39	1.04	13.9	J	-	-	*	
PCB-110	1.62e+07	1.58	y	36:48	1.03	2830		-	-	*	
PCB-82	1.39e+06	1.56	y	37:24	0.60	411		-	-	*	
PCB-124	5.28e+05	1.59	y	38:04	1.21	78.1		-	-	*	
PCB-108	9.03e+05	1.44	y	38:12	1.14	142		-	-	*	Co-elute PCB 107
PCB-107	9.03e+05	1.44	y	38:12	1.14	142		-	-	*	Co-elute PCB 108
PCB-123	2.35e+05	1.44	y	38:20	1.04	41.6		-	-	*	
13C-PCB-123	5.41e+07	1.59	y	38:20	1.28	9470					94.7
PCB-118	1.05e+07	1.57	y	38:32	1.10	1630		-	-	*	Co-elute PCB 106
PCB-106	1.05e+07	1.57	y	38:32	1.10	1630		-	-	*	Co-elute PCB 118
13C-PCB-118	5.82e+07	1.61	y	38:30	1.39	9330					93.3
PCB-114	3.57e+05	1.44	y	39:08	1.23	51.2		-	-	*	
13C-PCB-114	5.66e+07	1.61	y	39:08	1.31	9660					96.6
PCB-122	1.88e+05	1.34	y	39:16	1.12	30.1		-	-	*	
PCB-105	4.19e+06	1.51	y	39:57	1.19	645		-	-	*	
13C-PCB-105	5.46e+07	1.60	y	39:56	1.32	9230					92.3

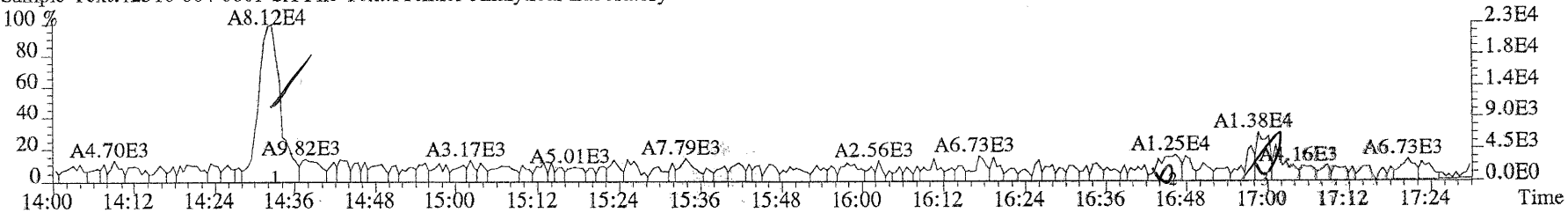
PCB-127	*	*	n	NotFnd	1.09	*		1160	1460	4.68	
PCB-126	5.19e+04	1.39	y	42:04	1.12	9.21	J	-	-	*	
13C-PCB-126	5.04e+07	1.60	y	42:04	1.25	9010					90.1
PCB-151	2.39e+06	1.25	y	37:47	0.91	575		-	-	*	
PCB-135	1.27e+06	1.23	y	37:59	0.86	325		-	-	*	
PCB-144	5.75e+05	1.30	y	38:05	1.09	116		-	-	*	
PCB-147	1.96e+05	1.14	y	38:14	1.01	42.6		-	-	*	
PCB-139	8.47e+06	1.26	y	38:27	1.04	1780		-	-	*	Co-elute PCB 149
PCB-149	8.47e+06	1.26	y	38:27	1.04	1780		-	-	*	Co-elute PCB 139
PCB-140	1.00e+05	1.21	y	38:37	1.03	21.2		-	-	*	
PCB-143	5.07e+05	1.27	y	39:05	0.84	133		-	-	*	Co-elute PCB 134
PCB-134	5.07e+05	1.27	y	39:05	0.84	133		-	-	*	Co-elute PCB 143
PCB-131	1.81e+05	1.34	y	39:20	0.85	46.9		-	-	*	Co-elute PCB 133
PCB-133	1.81e+05	1.34	y	39:20	0.85	46.9		-	-	*	Co-elute PCB 131
PCB-142	4.64e+07	1.27	y	39:29	0.85	12000		-	-	*	
PCB-165	1.48e+06	1.37	y	39:41	1.12	289		-	-	*	Co-elute PCB 146
PCB-146	1.48e+06	1.37	y	39:41	1.12	289		-	-	*	Co-elute PCB 165
PCB-161	2.99e+06	1.23	y	39:57	1.04	632		-	-	*	Co-elute PCB 132
PCB-132	2.99e+06	1.23	y	39:57	1.04	632		-	-	*	Co-elute PCB 161
PCB-153	8.23e+06	1.28	y	40:04	1.16	1550		-	-	*	
PCB-168	*	*	n	NotFnd	1.25	*		1060	868	3.38	
PCB-141	1.32e+06	1.27	y	40:47	0.94	310		-	-	*	
PCB-137	3.22e+05	1.22	y	41:08	0.86	82.1		-	-	*	
PCB-130	4.15e+05	1.21	y	41:15	0.90	102		-	-	*	
PCB-138	7.98e+06	1.25	y	41:35	1.13	1550		-	-	*	Co-elute PCB 163/164
PCB-163	7.98e+06	1.25	y	41:35	1.13	1550		-	-	*	Co-elute PCB 138/164
PCB-164	7.98e+06	1.25	y	41:35	1.13	1550		-	-	*	Co-elute PCB 138/163
PCB-158	9.61e+05	1.32	y	41:48	1.25	169		-	-	*	Co-elute PCB 160
PCB-160	9.61e+05	1.32	y	41:48	1.25	169		-	-	*	Co-elute PCB 158
PCB-129	2.63e+05	1.20	y	42:02	0.81	71.6		-	-	*	
PCB-166	*	*	n	NotFnd	1.18	*		1060	868	3.56	
PCB-159	1.21e+05	1.34	y	42:49	1.27	20.9		-	-	*	
PCB-128	1.01e+06	1.22	y	43:03	1.05	212		-	-	*	Co-elute PCB 162
PCB-162	1.01e+06	1.22	y	43:03	1.05	212		-	-	*	Co-elute PCB 128
PCB-167	2.58e+05	1.30	y	43:26	1.15	48.6		-	-	*	
13C-PCB-167	4.64e+07	1.30	y	43:25	1.14	9100					91.0
PCB-156	5.91e+05	1.24	y	44:41	1.21	110		-	-	*	
13C-PCB-156	4.45e+07	1.29	y	44:39	1.12	8860					88.6
PCB-157	1.52e+05	1.06	y	44:55	1.17	28.0		-	-	*	
13C-PCB-157	4.65e+07	1.28	y	44:54	1.15	9010					90.1
PCB-169	*	*	n	NotFnd	1.10	*		1060	868	3.53	
13C-PCB-169	4.48e+07	1.30	y	46:46	1.07	9320					93.2

FAL ID: 12510-004-0001-SA Filename: 31JUL19Z Sam:8 Acquired: 31-JUL-19 19:13:59 ICal: DAILY209FAL4-7-31-19
Client ID: LDW-Y2-SU-ENR+AC-CA-S010 ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

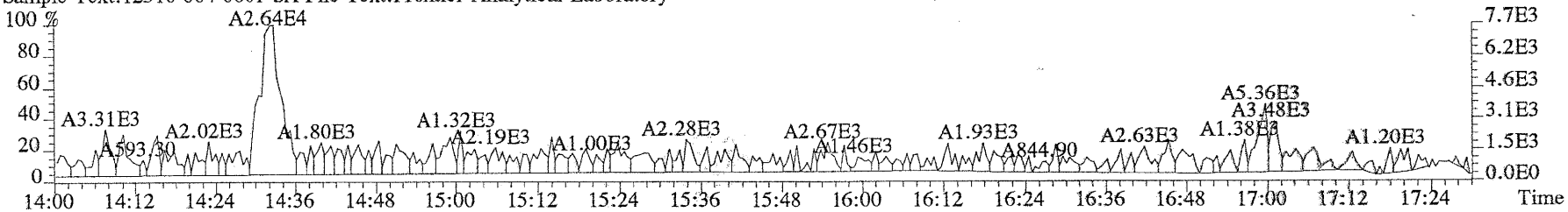
PCB-188	6.82e+04	1.02	y	39:43	1.05	13.6	J	-	-	*	
13C-PCB-188	4.79e+07	1.05	y	39:43	1.18	9090					90.9
PCB-184	2.71e+07	1.05	y	40:09	1.20	5190		-	-	*	
PCB-179	9.04e+05	1.03	y	40:53	1.13	185		-	-	*	
PCB-176	2.63e+05	1.05	y	41:20	1.10	55.0		-	-	*	
PCB-186	*	*	n	NotFnd	1.11	*		968	660	3.29	
PCB-178	2.49e+05	1.16	y	42:21	0.76	75.4		-	-	*	
PCB-175	2.88e+04	1.15	y	42:40	0.77	8.64	J	-	-	*	
PCB-187	1.50e+06	1.01	y	42:50	0.87	395		-	-	*	Co-elute PCB 182
PCB-182	1.50e+06	1.01	y	42:50	0.87	395		-	-	*	Co-elute PCB 187
PCB-183	6.60e+05	0.98	y	43:08	0.86	177		-	-	*	
PCB-185	1.36e+05	1.13	y	43:46	0.77	40.5		-	-	*	
PCB-174	1.07e+06	1.04	y	44:08	0.79	313		-	-	*	
PCB-181	*	*	n	NotFnd	0.78	*		968	660	4.68	
PCB-177	5.56e+05	1.06	y	44:22	0.70	182		-	-	*	
PCB-171	2.75e+05	0.98	y	44:39	0.77	82.1		-	-	*	
PCB-173	*	*	n	NotFnd	0.68	*		968	660	5.34	
PCB-172	5.37e+05	0.97	y	45:25	0.72	172		-	-	*	
PCB-192	1.68e+07	1.05	y	45:36	0.97	4000		-	-	*	
PCB-180	1.85e+06	1.03	y	45:48	0.75	570		-	-	*	
PCB-193	1.41e+05	1.14	y	45:58	1.05	30.8		-	-	*	
PCB-191	3.44e+04	1.18	y	46:11	0.99	7.97	J	-	-	*	
PCB-170	6.54e+05	1.02	y	47:05	0.71	211		-	-	*	
PCB-190	2.03e+05	0.95	y	47:15	0.96	48.6		-	-	*	
PCB-189	3.71e+04	1.13	y	48:26	1.00	9.54	J	-	-	*	
13C-PCB-189	3.90e+07	1.06	y	48:26	1.01	8640					86.4
PCB-202	6.16e+04	0.96	y	44:49	1.02	16.3	J	-	-	*	
PCB-201	*	*	n	NotFnd	1.10	*		276	580	2.03	
PCB-204	4.08e+07	0.90	y	45:25	1.11	9860		-	-	*	
PCB-197	2.71e+05	0.96	y	45:41	1.15	63.5		-	-	*	
PCB-200	6.81e+04	0.90	y	46:26	1.11	16.5	J	-	-	*	
PCB-198	1.69e+04	0.89	y	47:37	0.78	5.84	J	-	-	*	
PCB-199	2.57e+05	0.86	y	47:42	0.74	92.7		-	-	*	
PCB-203	2.92e+05	0.90	y	47:56	0.83	94.2		-	-	*	Co-elute PCB 196
PCB-196	2.92e+05	0.90	y	47:56	0.83	94.2		-	-	*	Co-elute PCB 203
13C-PCB-202	3.72e+07	0.91	y	44:49	0.95	8790					87.9
13C-PCB-178	3.29e+07	1.04	y	42:21	0.80	9220					92.2
13C-PCB-138	4.48e+07	1.29	y	41:33	-	60.2					
PCB-195	1.10e+05	0.85	y	49:02	0.78	31.9		-	-	*	
PCB-194	2.56e+05	0.89	y	49:51	0.86	67.7		-	-	*	
PCB-205	2.57e+04	0.82	y	50:05	1.09	5.35	J	-	-	*	
13C-PCB-205	4.42e+07	0.90	y	50:05	1.29	8700					87.0
PCB-208	3.62e+04	1.31	y	49:09	1.05	8.34	J	-	-	*	
13C-PCB-208	4.12e+07	0.80	y	49:09	1.15	9070					90.7
PCB-207	1.84e+05	1.32	y	49:28	1.23	42.1		-	-	*	
PCB-206	6.28e+04	1.17	y	51:17	1.08	19.6	J	-	-	*	
13C-PCB-206	2.95e+07	0.81	y	51:17	0.88	8530					85.3
PCB-209	2.24e+05	1.17	y	52:29	1.13	55.8		-	-	*	
13C-PCB-209	3.54e+07	1.20	y	52:28	1.08	8330					83.3
13C-PCB-194	3.94e+07	0.91	y	49:50	-	54.9					

Analyst: _____ Date: 8/1/19

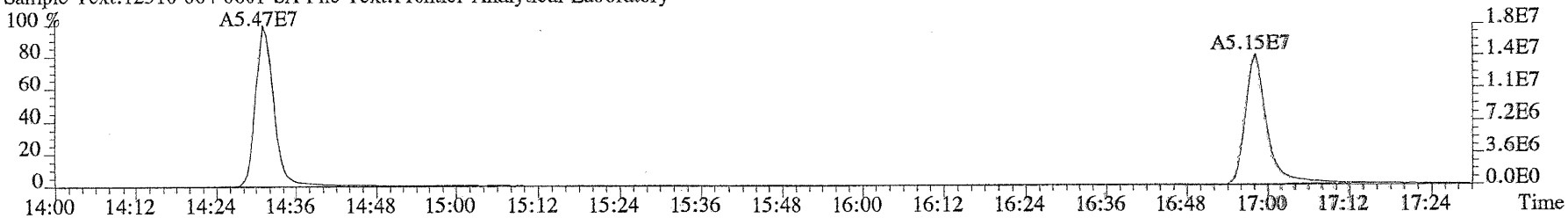
File:31JUL19Z #1-784 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-784 Acq:31-JUL-2019 19:13:59 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:12510-004-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-784 Acq:31-JUL-2019 19:13:59 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:12510-004-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-784 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
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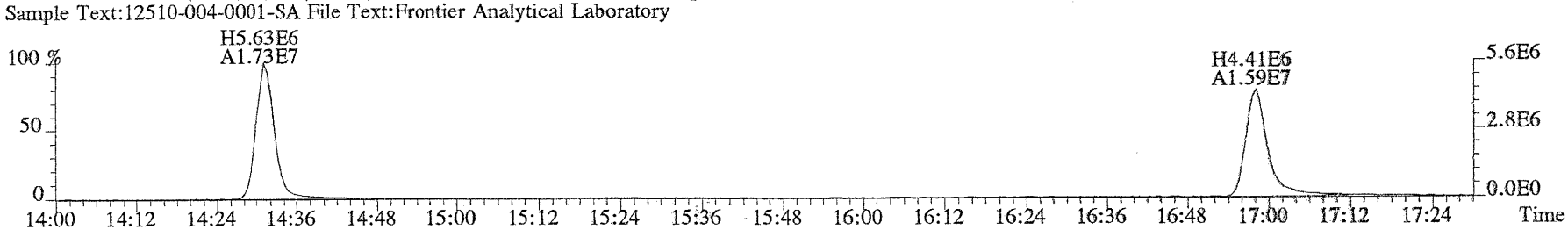
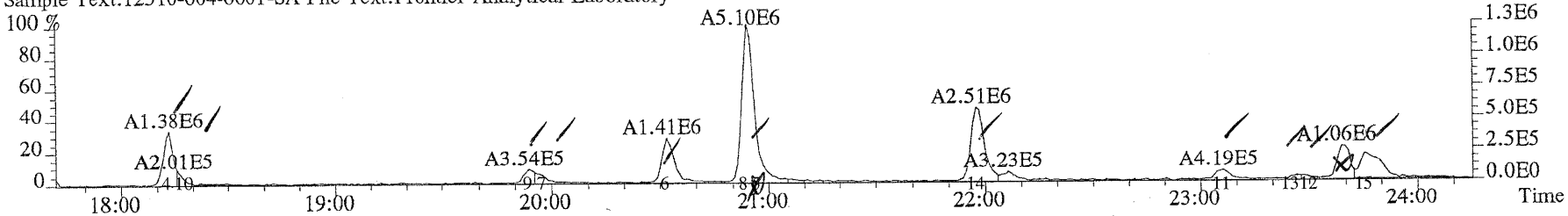
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-520 Acq:31-JUL-2019 19:13:59 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:12510-004-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-520 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
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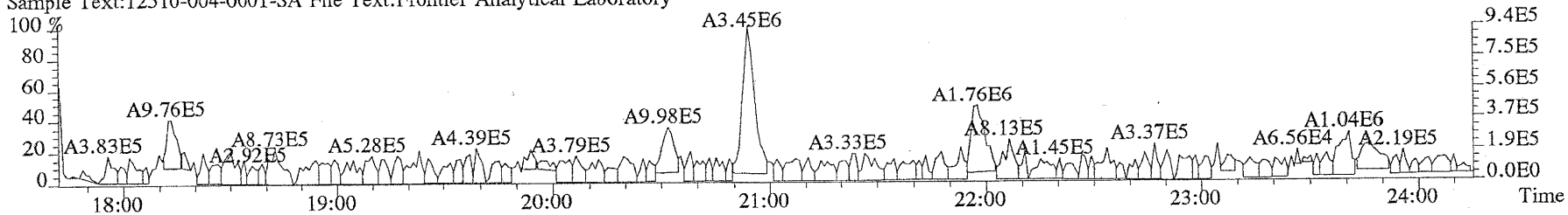
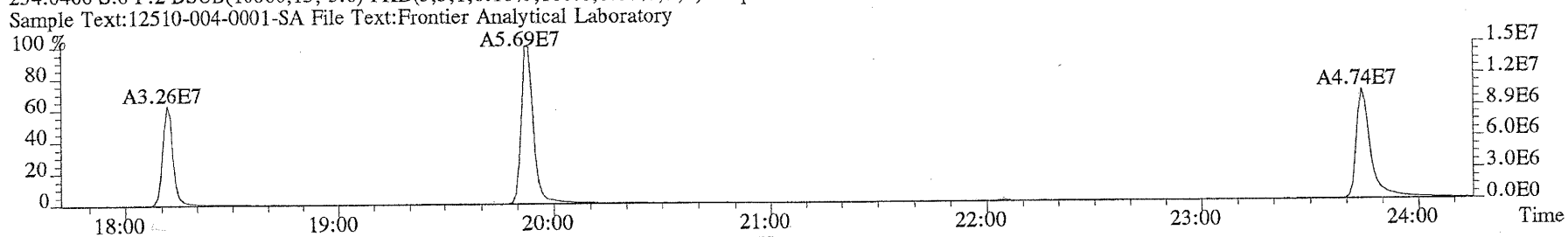
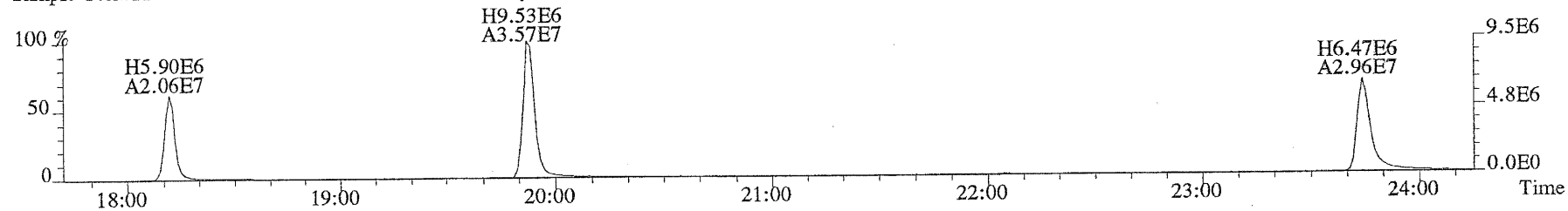
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



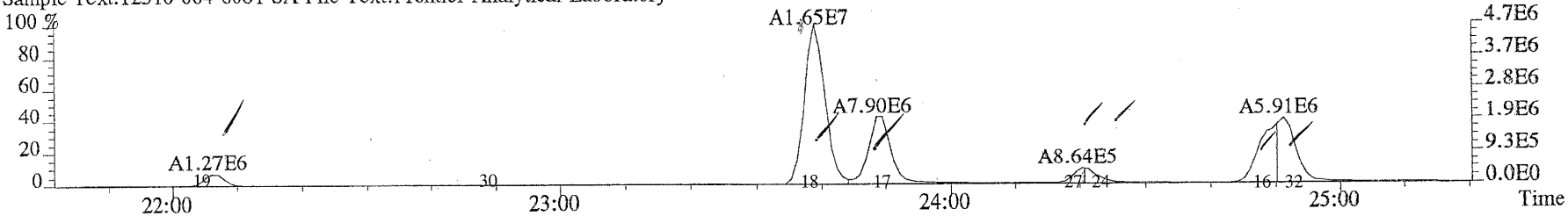
File:31JUL19Z #1-520 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



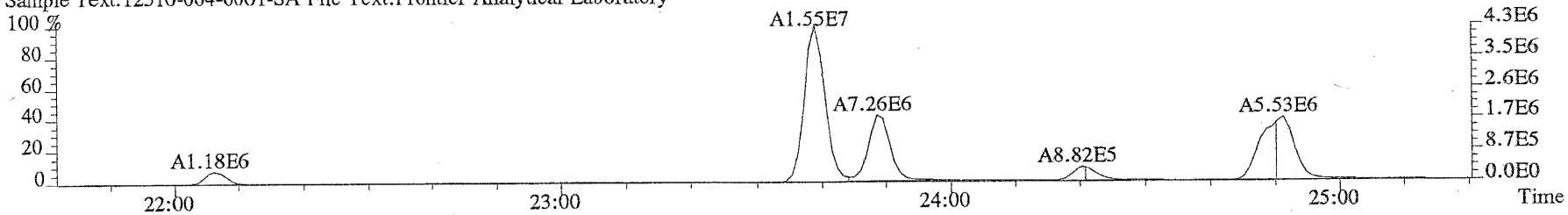
File:31JUL19Z #1-520 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



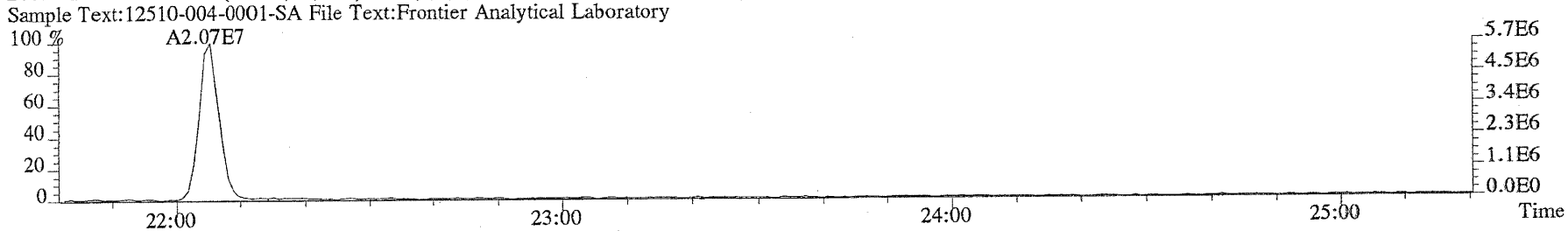
File:31JUL19Z #1-520 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



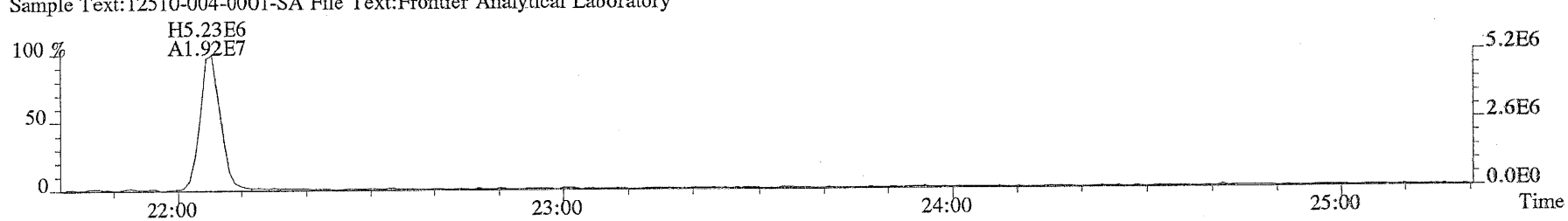
File:31JUL19Z #1-520 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



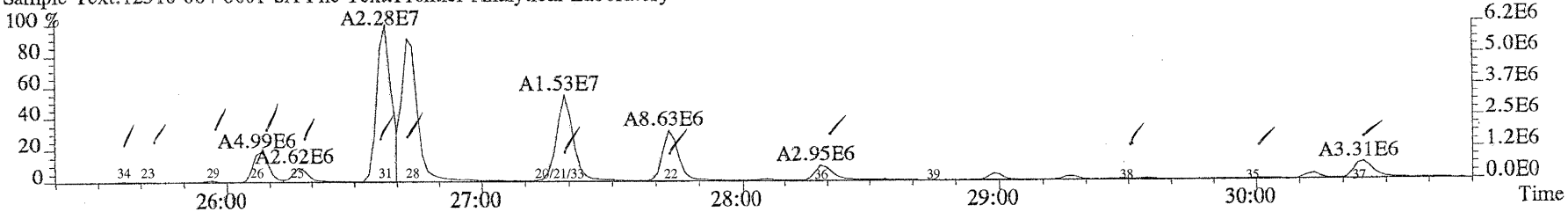
File:31JUL19Z #1-520 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



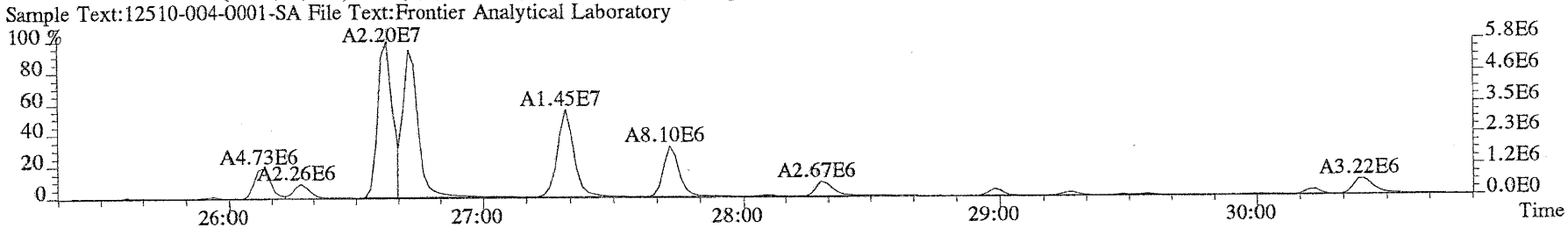
File:31JUL19Z #1-520 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



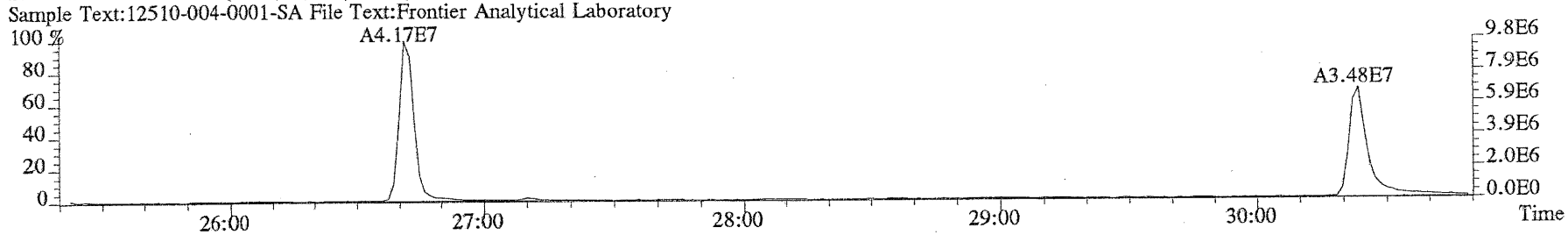
File:31JUL19Z #1-401 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



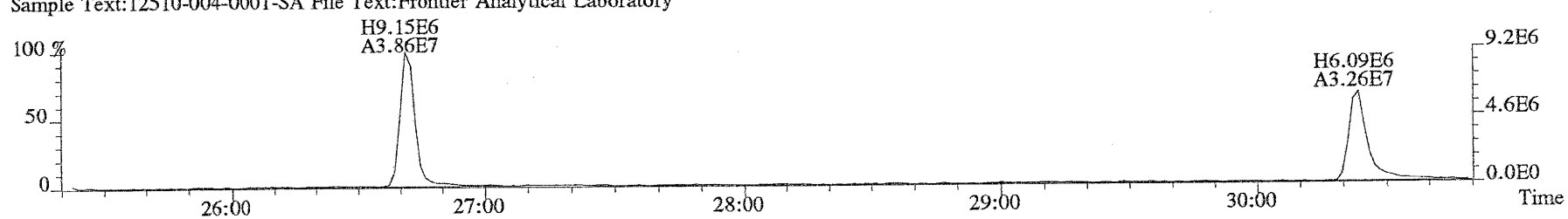
File:31JUL19Z #1-401 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



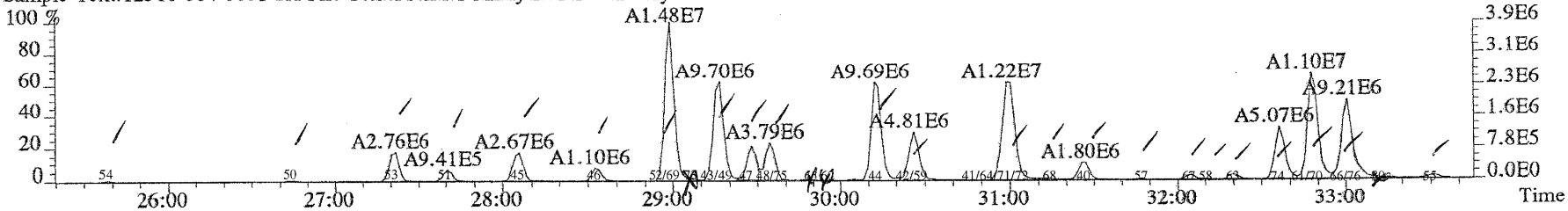
File:31JUL19Z #1-401 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



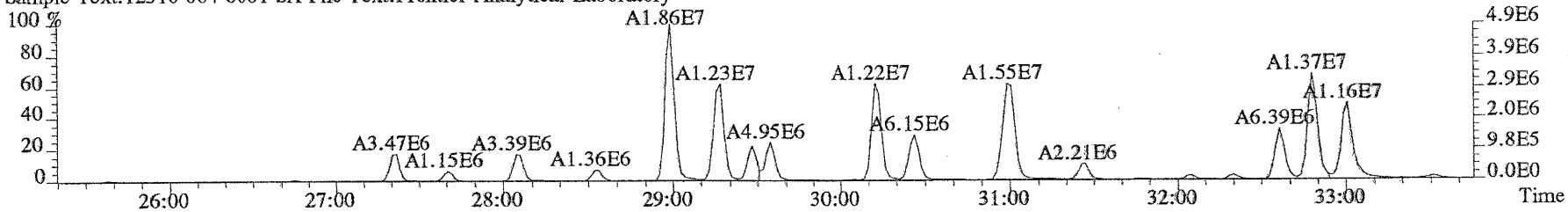
File:31JUL19Z #1-401 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



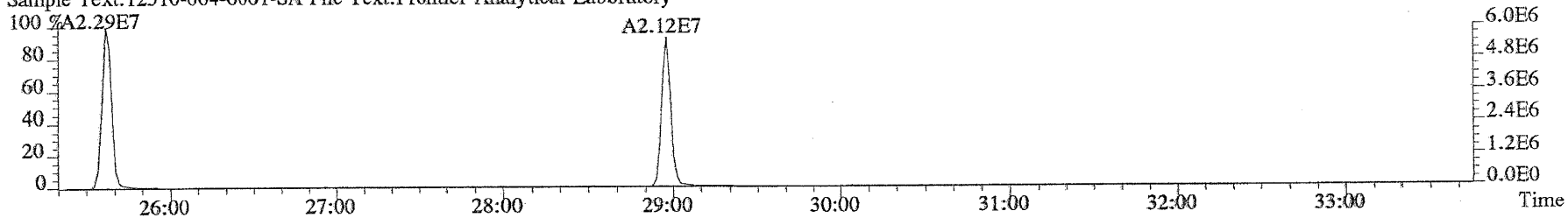
File:31JUL19Z #1-401 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



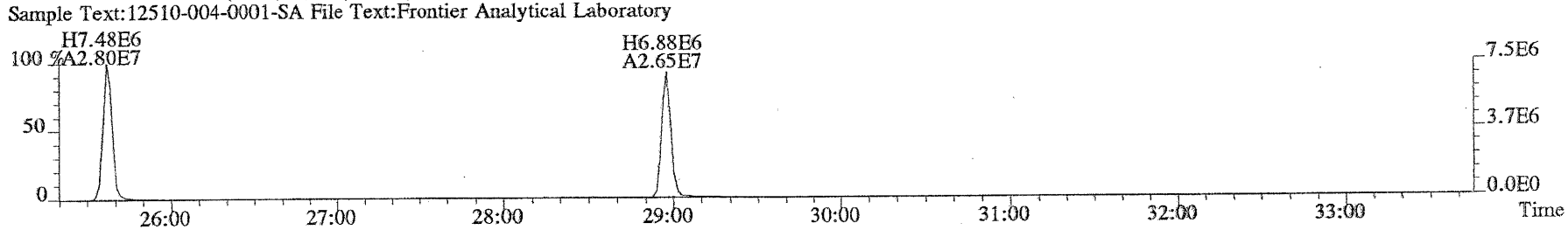
File:31JUL19Z #1-401 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



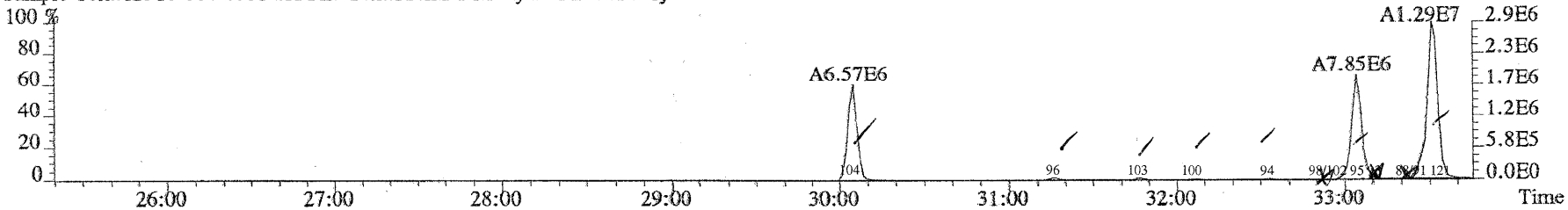
File:31JUL19Z #1-401 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



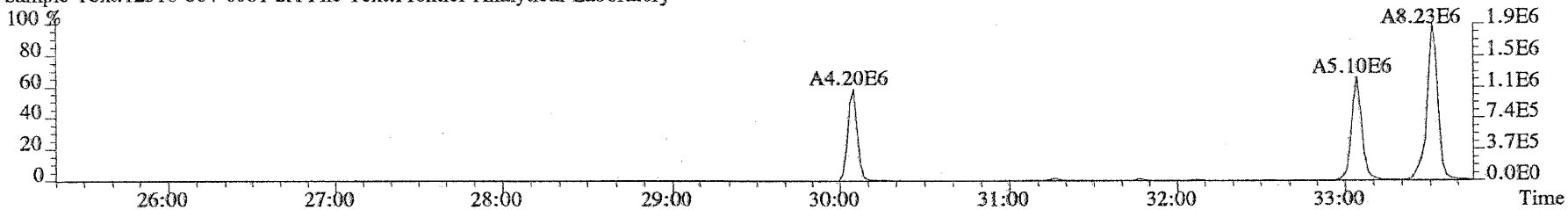
File:31JUL19Z #1-401 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



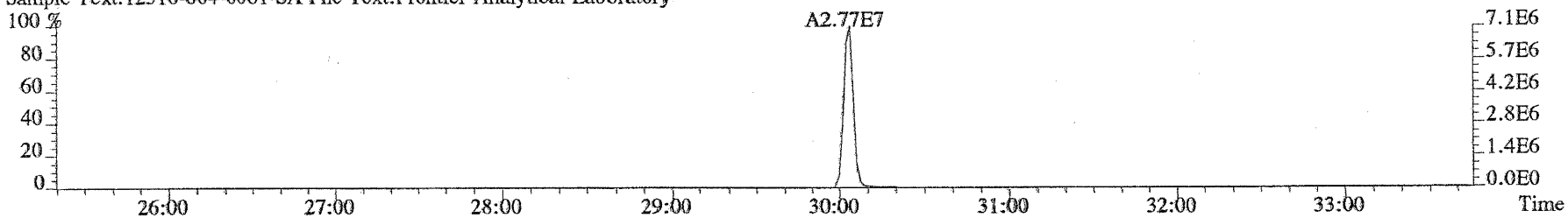
File:31JUL19Z #1-401 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



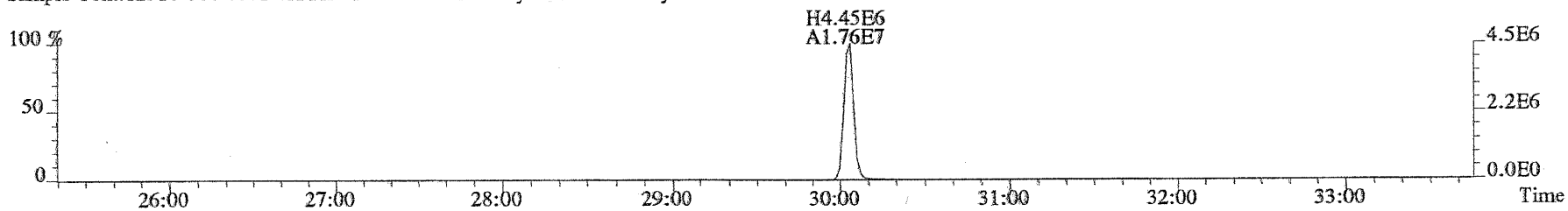
File:31JUL19Z #1-401 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



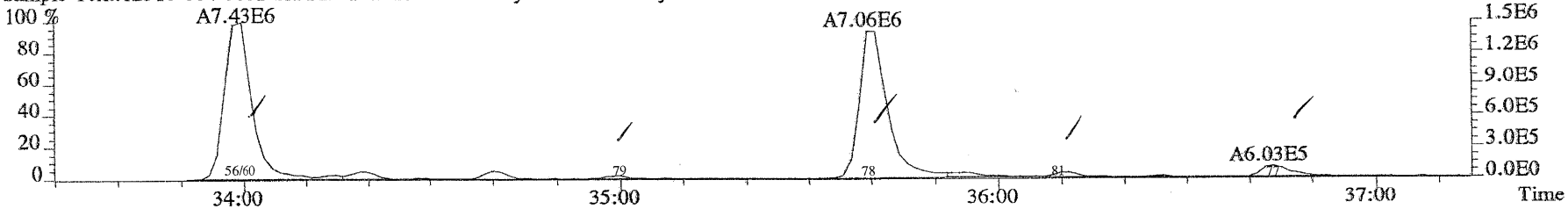
File:31JUL19Z #1-401 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



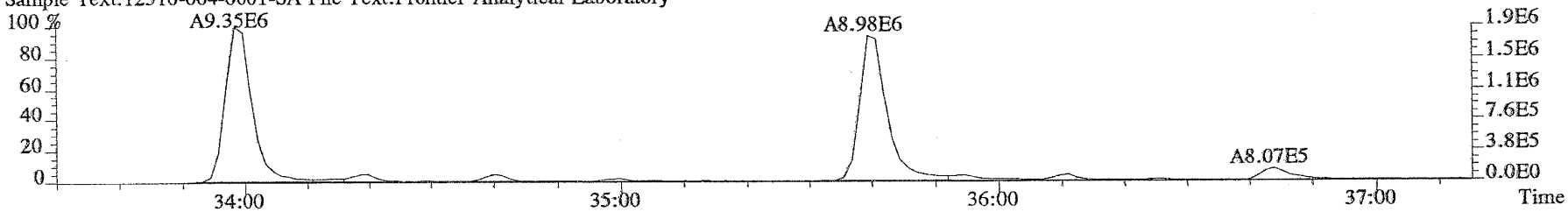
File:31JUL19Z #1-401 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



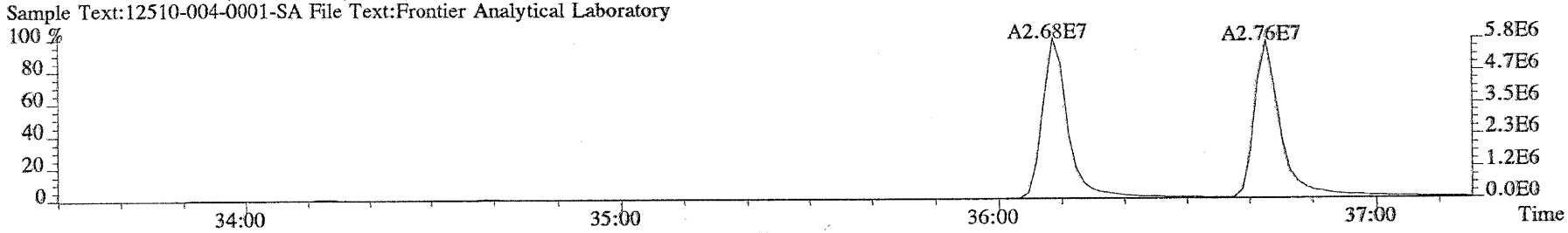
File:31JUL19Z #1-181 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



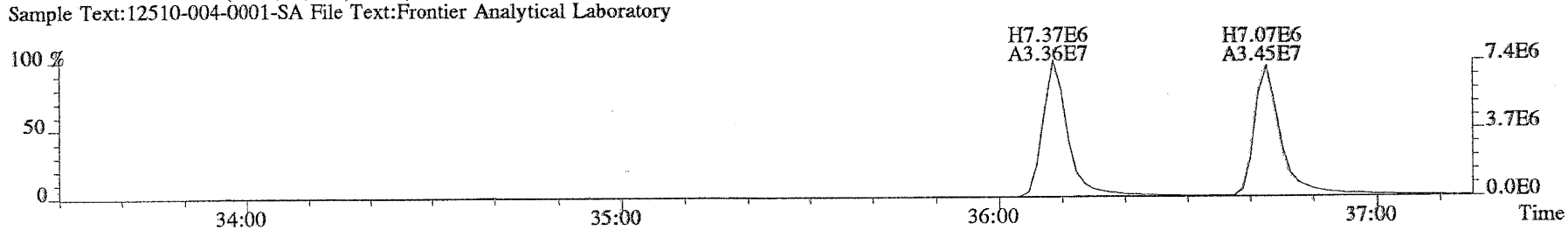
File:31JUL19Z #1-181 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



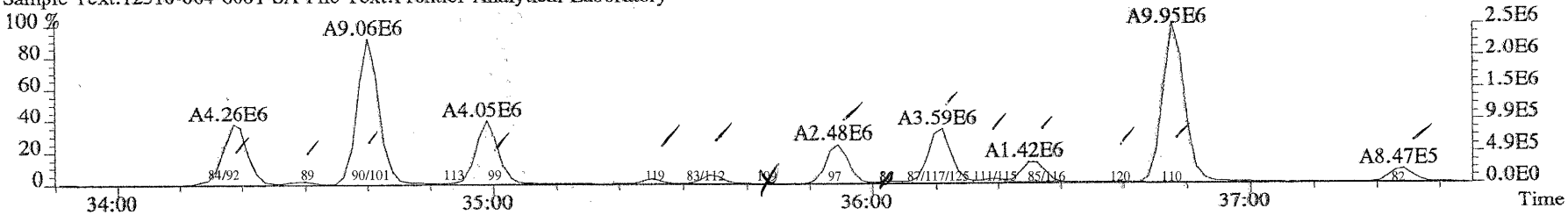
File:31JUL19Z #1-181 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



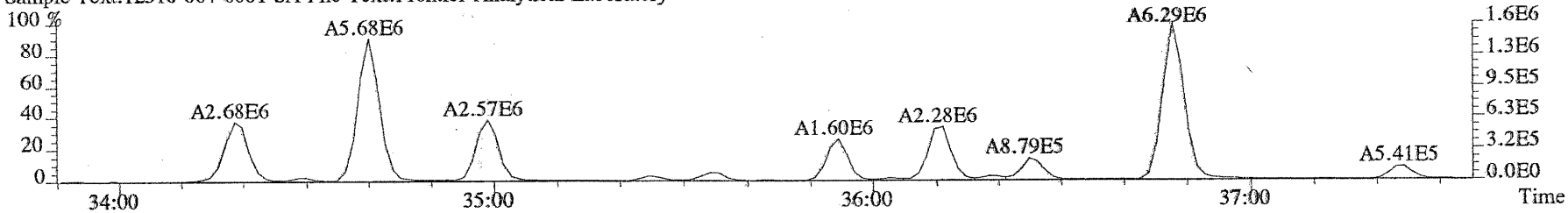
File:31JUL19Z #1-181 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



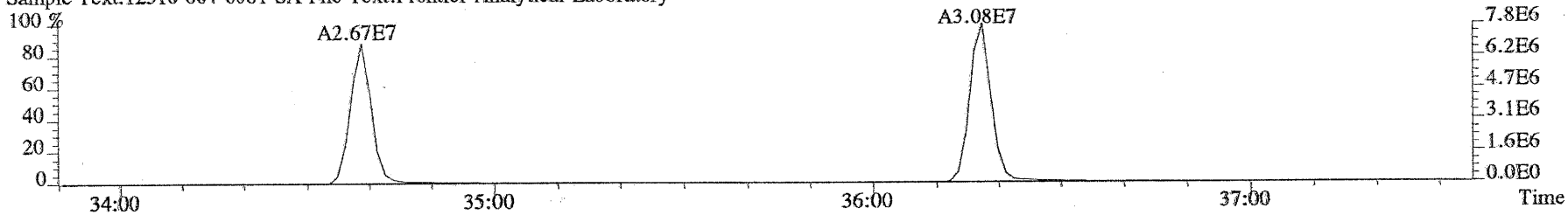
File:31JUL19Z #1-181 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



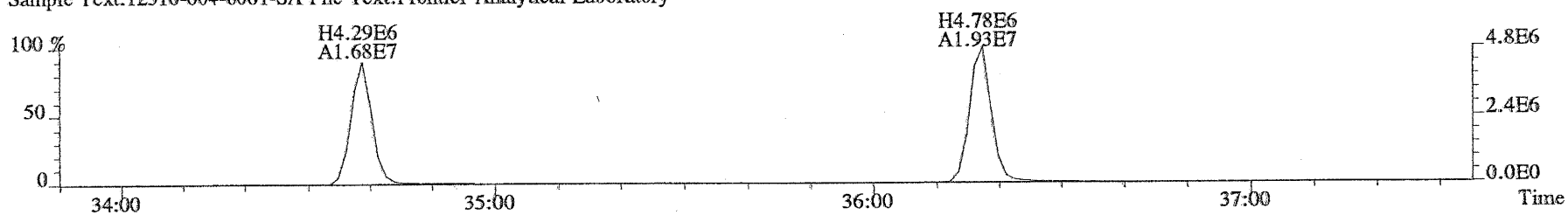
File:31JUL19Z #1-181 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



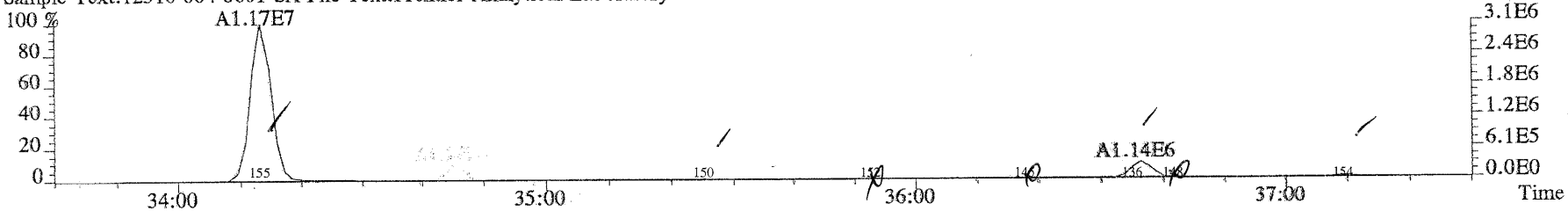
File:31JUL19Z #1-181 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



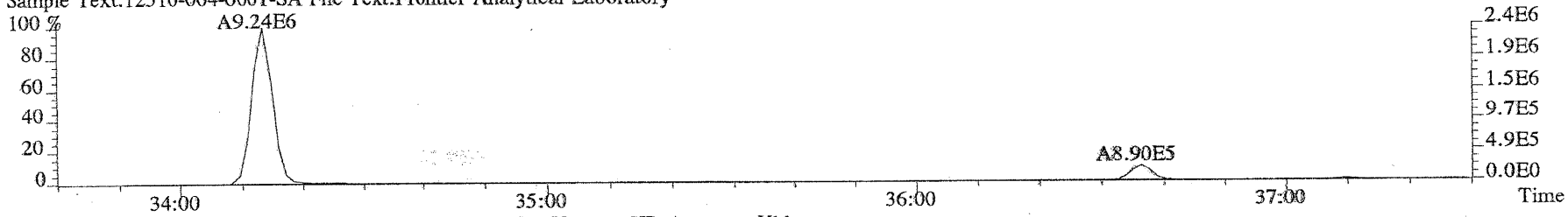
File:31JUL19Z #1-181 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



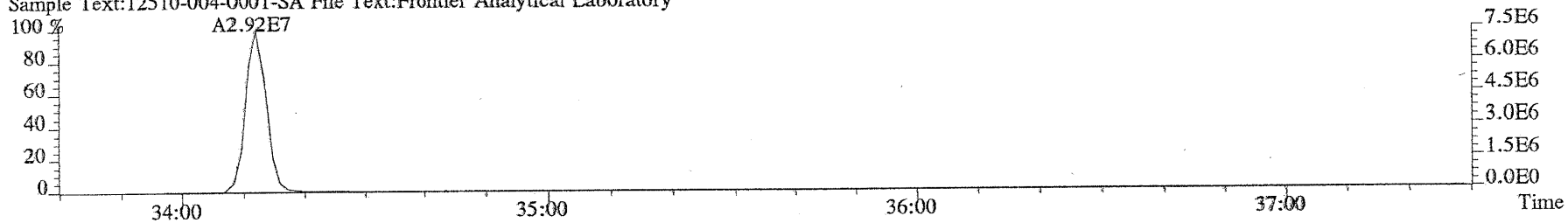
File:31JUL19Z #1-181 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



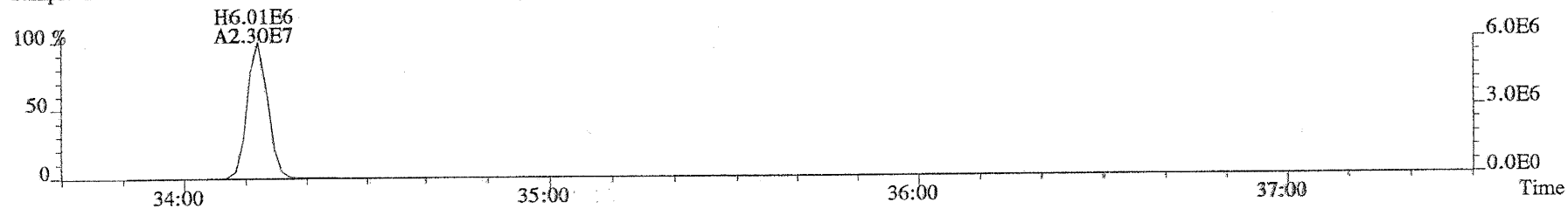
File:31JUL19Z #1-181 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



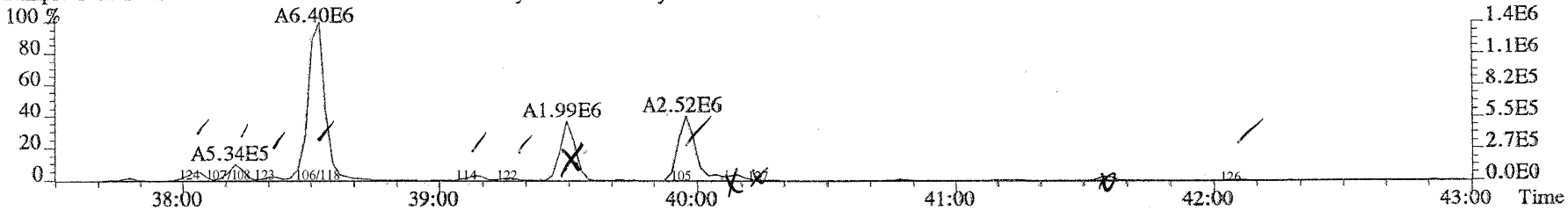
File:31JUL19Z #1-181 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



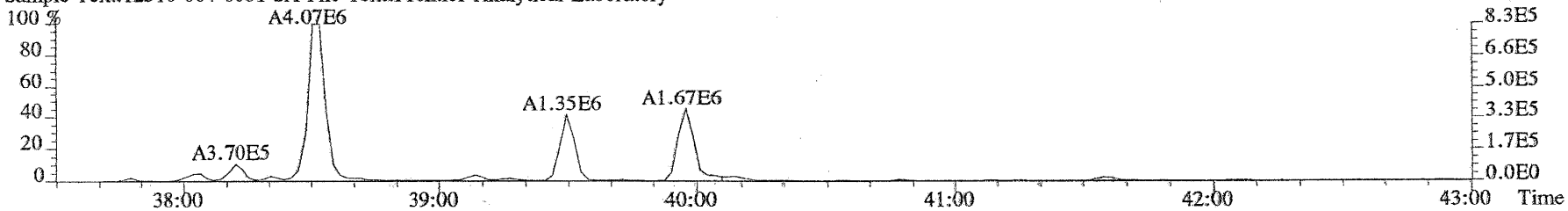
File:31JUL19Z #1-181 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



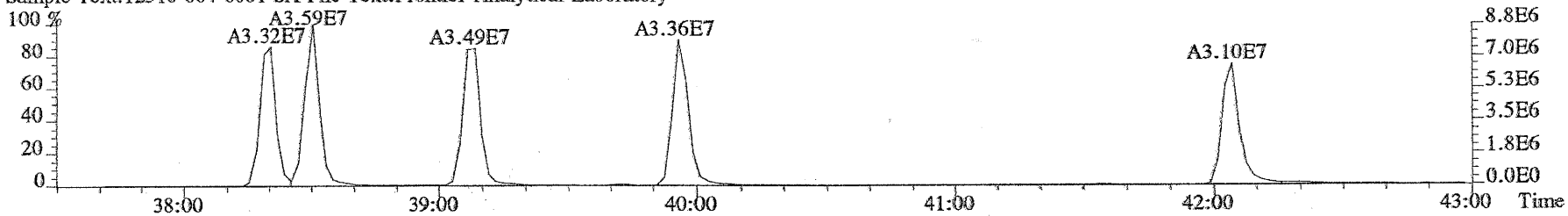
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



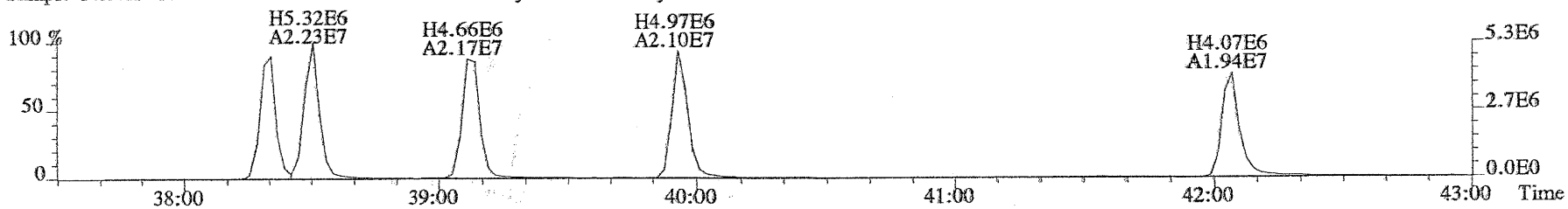
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



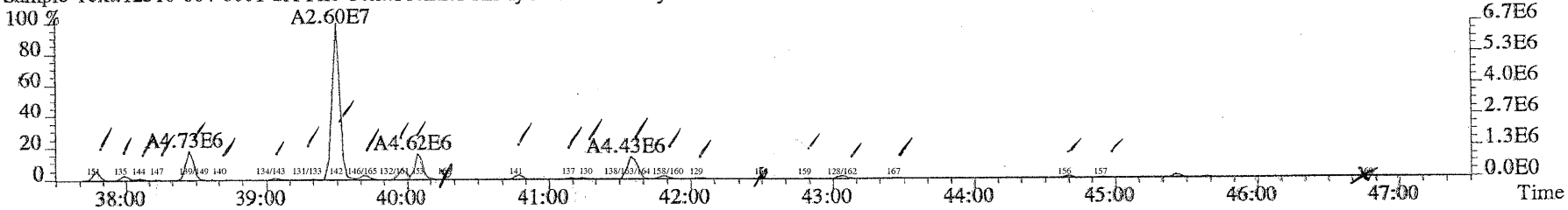
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



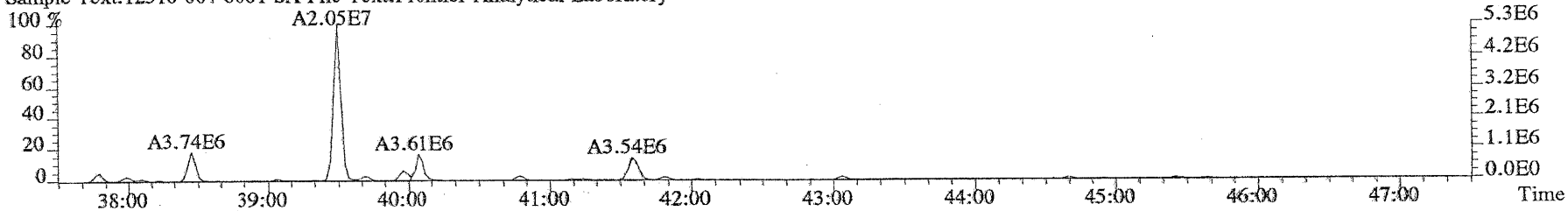
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



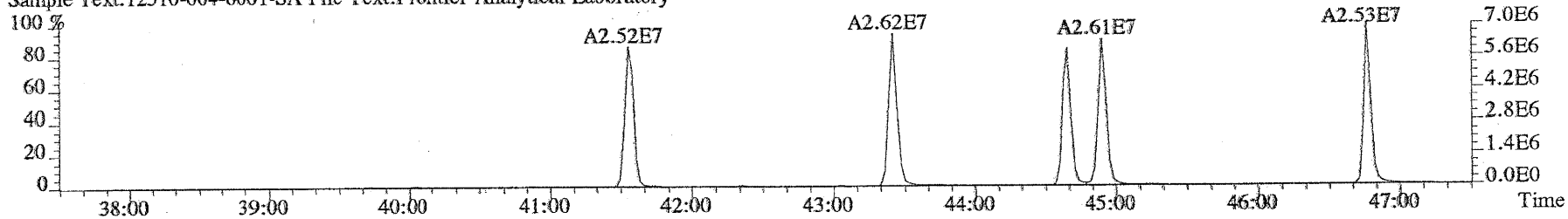
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



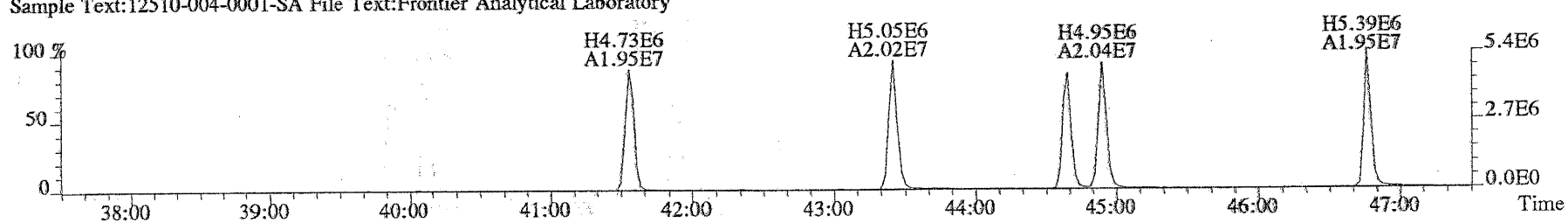
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



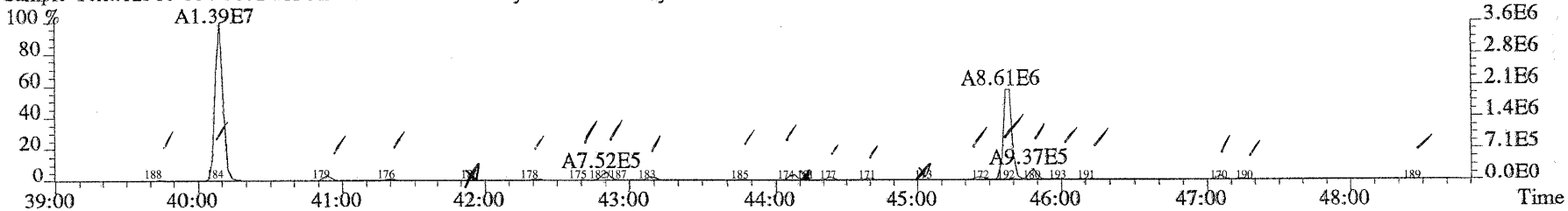
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



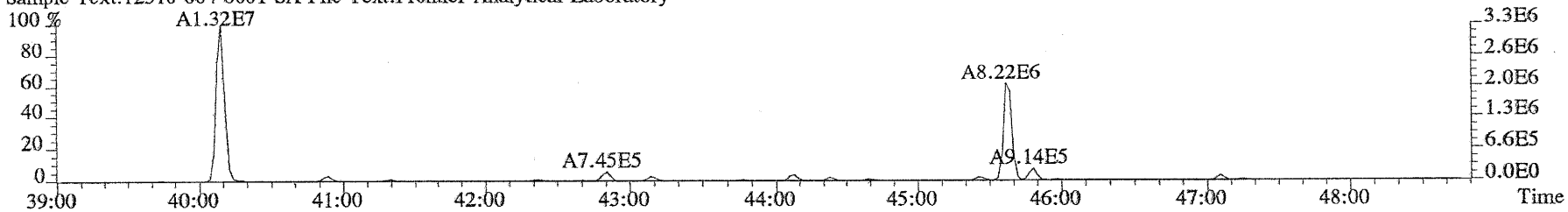
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



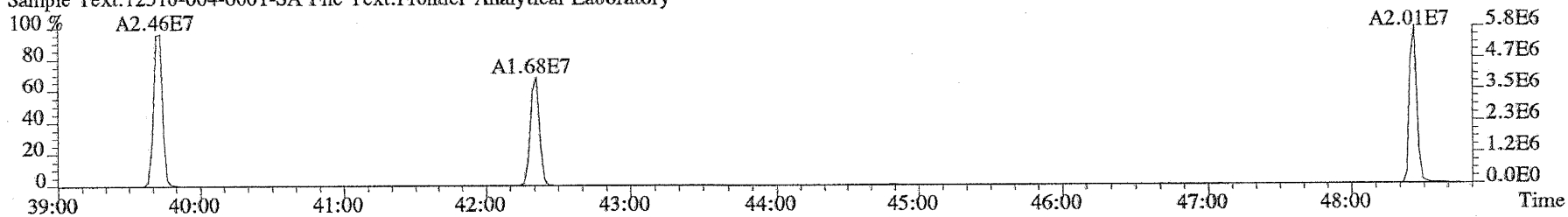
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



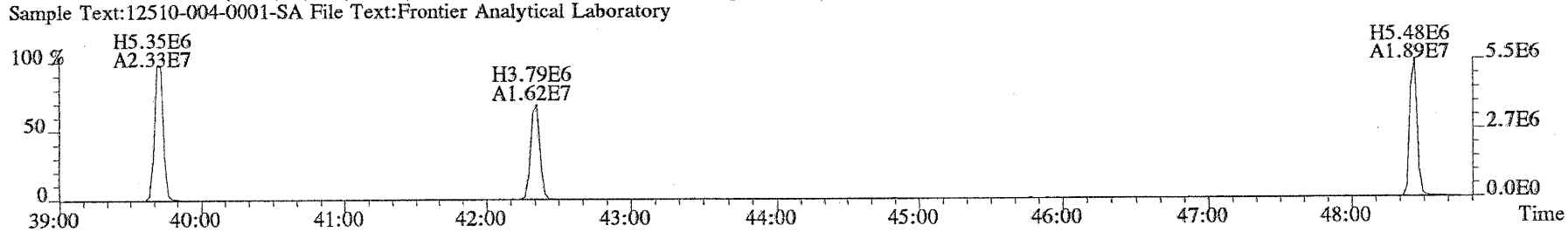
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



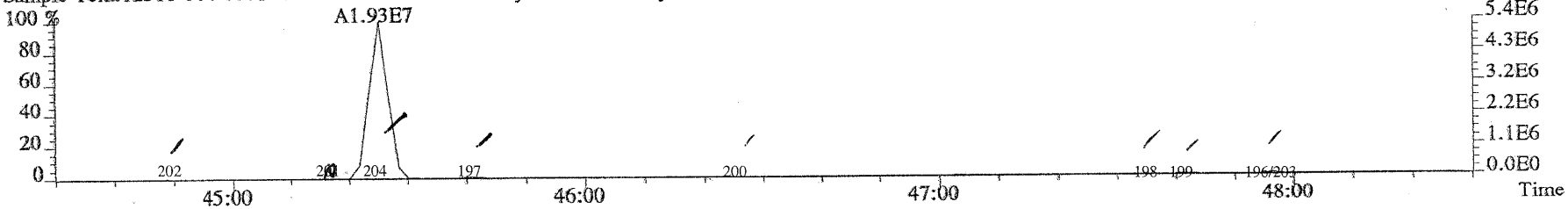
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



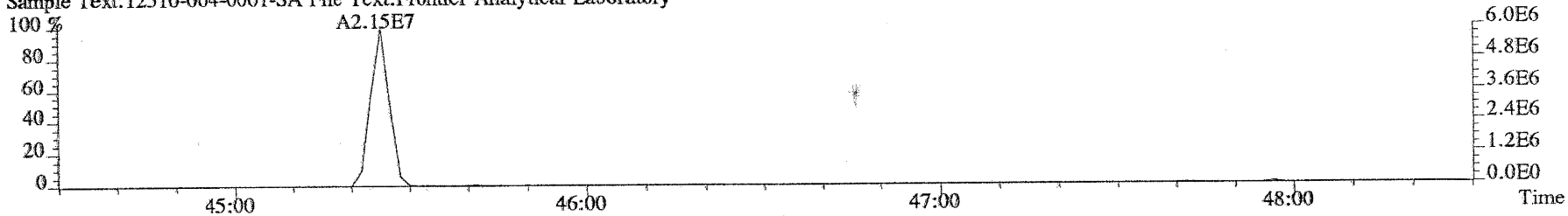
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



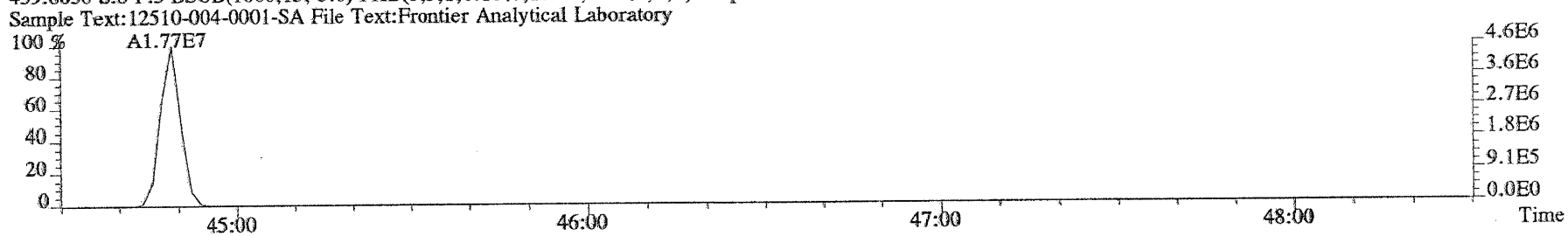
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



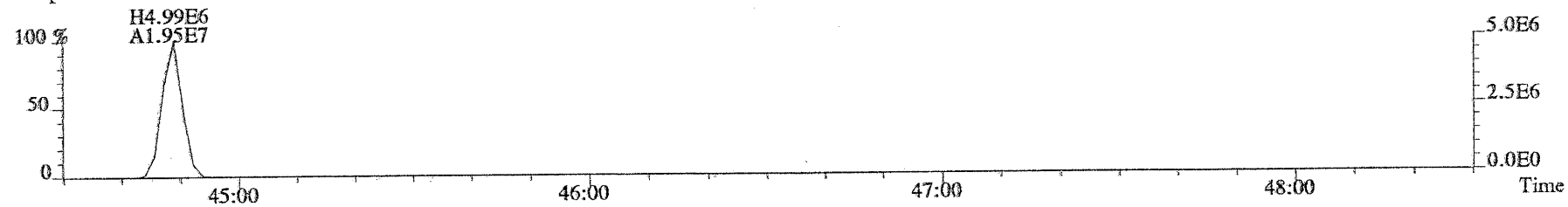
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



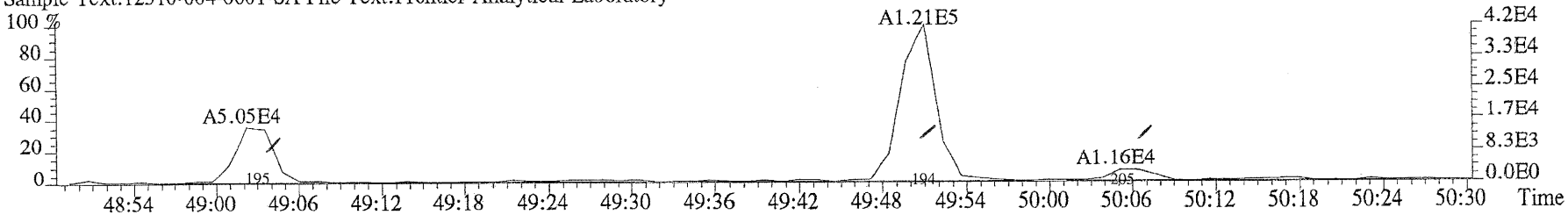
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



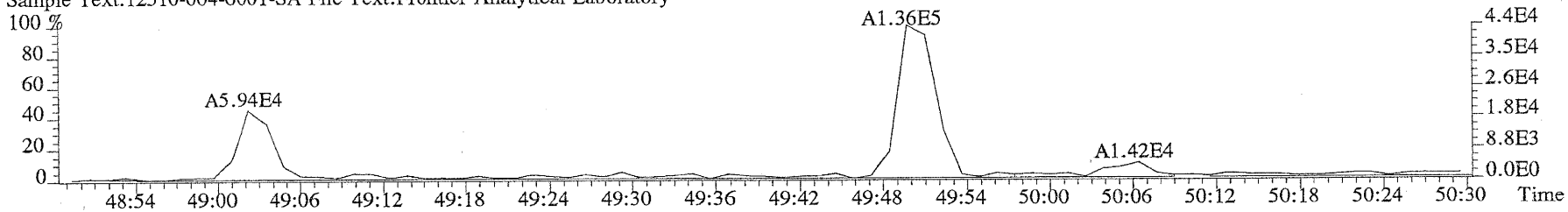
File:31JUL19Z #1-405 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



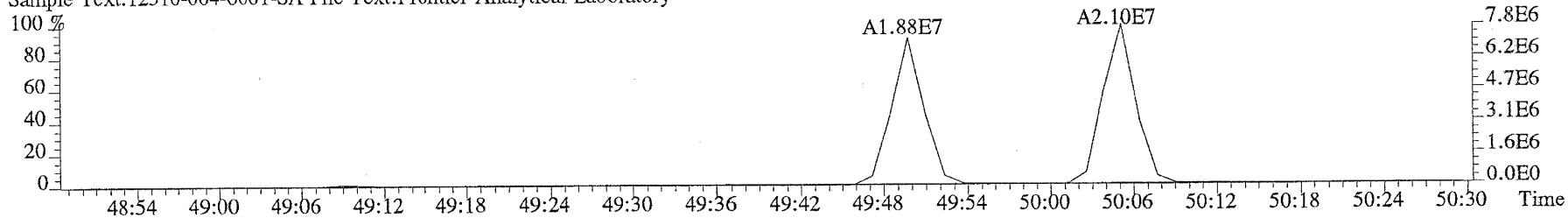
File:31JUL19Z #1-315 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



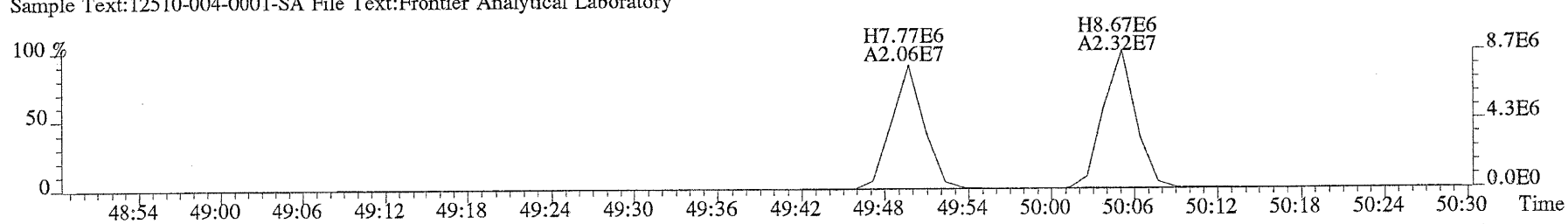
File:31JUL19Z #1-315 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



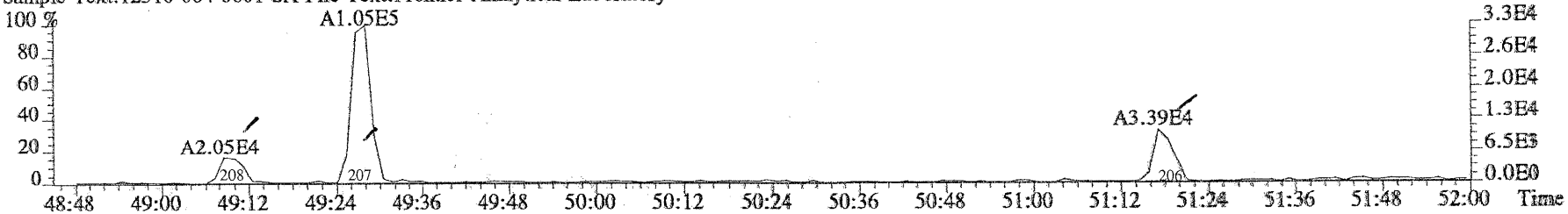
File:31JUL19Z #1-315 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



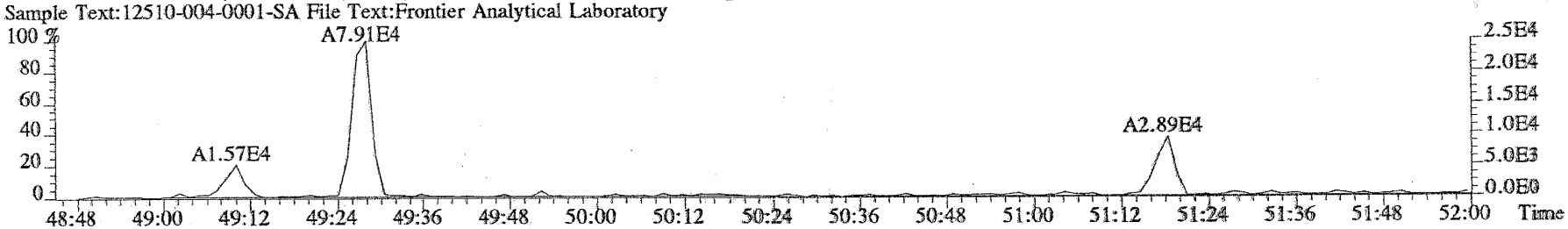
File:31JUL19Z #1-315 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



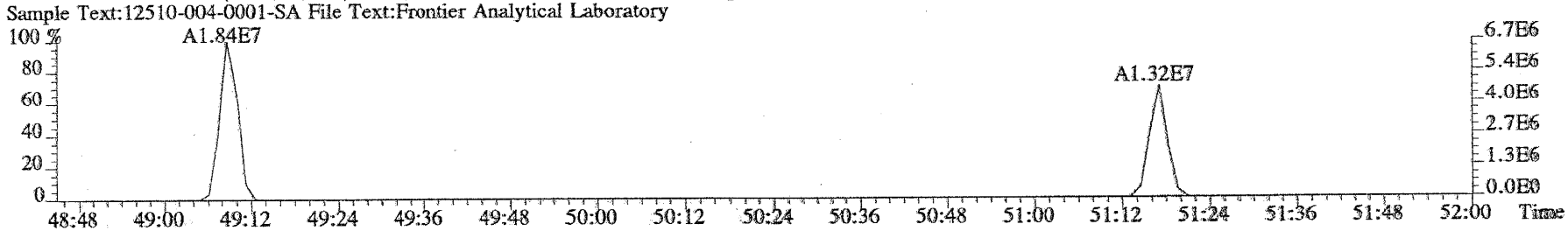
File:31JUL19Z #1-315 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



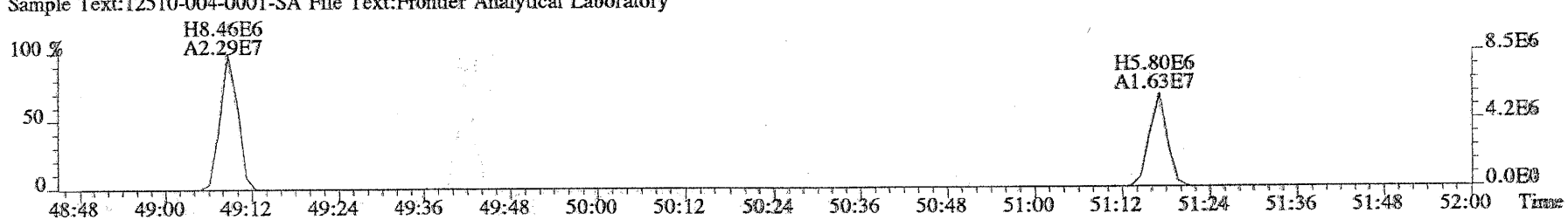
File:31JUL19Z #1-315 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



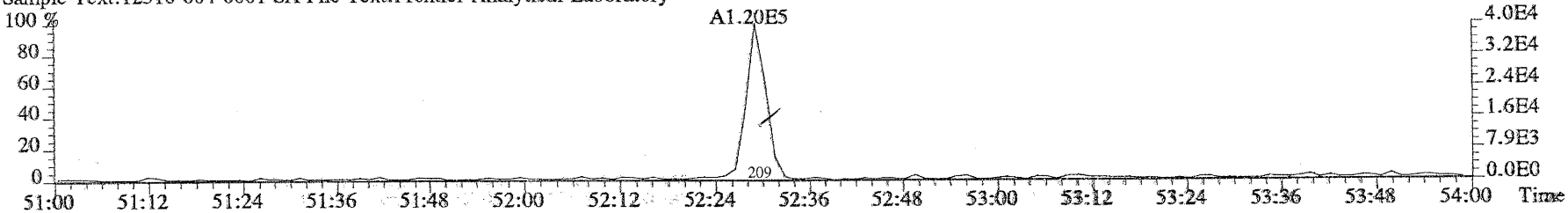
File:31JUL19Z #1-315 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



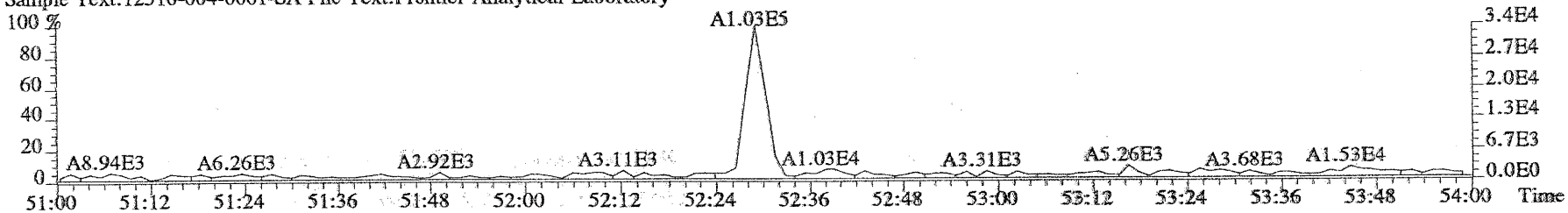
File:31JUL19Z #1-315 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



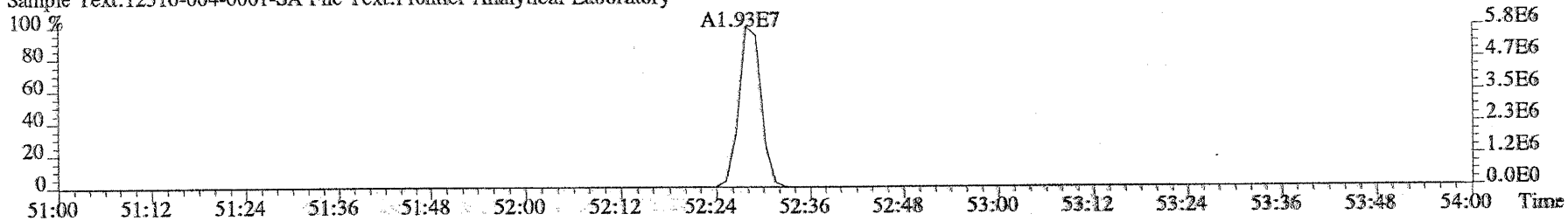
File:31JUL19Z #1-315 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



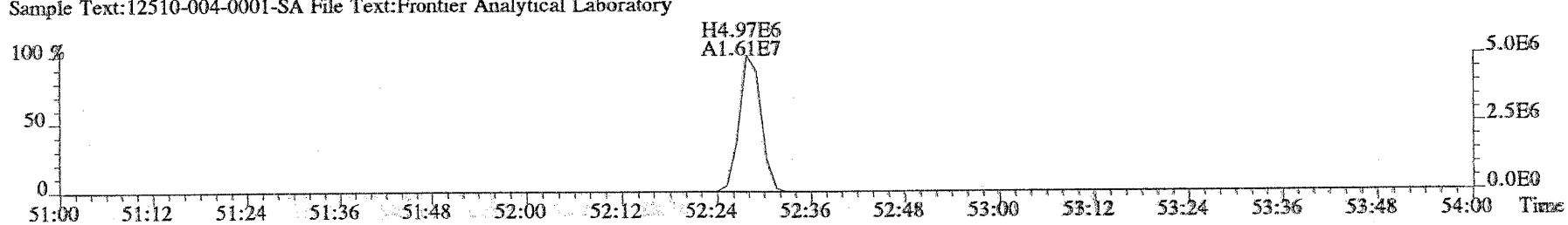
File:31JUL19Z #1-315 Acq:31-JUL-2019 19:13:59 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-004-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 19:13:59 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:12510-004-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 19:13:59 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:12510-004-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12510-005-0001-SA Filename: 31JUL19Z Sam:9 Acquired: 31-JUL-19 20:12:46 ICal: DAILY209FAL4-7-31-19
Client ID: LDW-Y2-SU-ENR+AC-CB-S010 ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	2.98e+05	2.74 y	14:33	1.20	18.9	J	-	-	*	
13C-PCB-1	1.31e+08	3.16 y	14:32	0.94	8540					85.4
PCB-2	*	* n	NotFnd	1.19	*		4040	3030	3.68	
PCB-3	*	* n	NotFnd	1.22	*		4040	3030	3.84	
13C-PCB-3	1.30e+08	3.26 y	16:58	0.88	9010					90.1
PCB-4	4.47e+06	1.43 y	18:14	1.16	406		-	-	*	
PCB-10	4.52e+05	1.45 y	18:17	1.41	26.6		-	-	*	
13C-PCB-4	9.51e+07	1.58 y	18:12	0.67	8650					86.5
PCB-9	9.62e+05	1.46 y	19:54	1.44	55.2		-	-	*	
PCB-7	5.92e+05	1.53 y	19:57	1.43	34.4		-	-	*	
PCB-6	4.71e+06	1.41 y	20:32	1.49	262		-	-	*	
PCB-8	1.24e+07	1.47 y	20:54	1.36	756		-	-	*	
PCB-5	*	* n	NotFnd	1.45	*		1270	11400	6.82	
PCB-14	7.27e+06	1.45 y	21:58	1.36	442		-	-	*	
PCB-11	6.92e+05	1.51 y	23:06	1.24	46.1		-	-	*	
PCB-13	2.14e+05	1.50 y	23:26	1.24	14.3	J	-	-	*	
PCB-12	2.94e+05	1.38 y	23:28	1.28	19.1	J	-	-	*	
PCB-15	2.60e+06	1.56 y	23:46	1.16	154		-	-	*	
13C-PCB-15	1.46e+08	1.60 y	23:44	0.91	9760					97.6
PCB-19	3.45e+06	1.04 y	22:07	1.16	414		-	-	*	
PCB-30	*	* n	NotFnd	1.70	*		2060	768	2.06	
PCB-18	3.14e+07	1.06 y	23:39	1.12	3900		-	-	*	
PCB-17	1.49e+07	1.09 y	23:49	1.27	1640		-	-	*	
PCB-27	1.72e+06	0.95 y	24:20	1.62	148		-	-	*	
PCB-24	2.03e+06	1.14 y	24:21	1.68	168		-	-	*	
PCB-16	9.14e+06	1.00 y	24:49	1.38	925		-	-	*	
PCB-32	1.25e+07	1.08 y	24:51	1.46	1190		-	-	*	
13C-PCB-19	7.17e+07	1.05 y	22:05	0.49	8890					88.9
13C-PCB-9	1.64e+08	1.62 y	19:53	-	96.7					
PCB-34	4.01e+05	1.12 y	25:36	1.23	25.7		-	-	*	
PCB-23	*	* n	NotFnd	1.39	*		5080	4410	6.25	
PCB-29	3.13e+05	1.05 y	25:56	1.33	18.5	J	-	-	*	
PCB-26	9.62e+06	1.07 y	26:07	1.26	602		-	-	*	
PCB-25	5.30e+06	1.00 y	26:17	1.26	333		-	-	*	
PCB-31	3.44e+07	1.02 y	26:38	1.19	2280		-	-	*	
PCB-28	3.92e+07	1.06 y	26:43	1.60	1930		-	-	*	
PCB-20	2.10e+07	1.03 y	27:19	1.25	1330		-	-	*	Co-elute PCB 21/33
PCB-21	2.10e+07	1.03 y	27:19	1.25	1330		-	-	*	Co-elute PCB 20/33
PCB-33	2.10e+07	1.03 y	27:19	1.25	1330		-	-	*	Co-elute PCB 20/21
PCB-22	1.16e+07	1.04 y	27:43	1.40	654		-	-	*	
PCB-36	9.95e+06	1.03 y	28:19	1.24	632		-	-	*	
PCB-39	*	* n	NotFnd	1.25	*		5080	4410	6.95	
PCB-38	2.68e+05	0.95 y	29:28	1.27	16.7	J	-	-	*	
PCB-35	2.43e+05	1.05 y	30:00	1.14	16.8	J	-	-	*	
PCB-37	4.40e+06	1.00 y	30:24	1.21	287		-	-	*	
13C-PCB-37	1.27e+08	1.10 y	30:23	1.51	9630					96.3

PCB-54	1.83e+05	0.72	y	25:38	1.24	15.8	J	-	-	*	
PCB-50	1.96e+05	0.80	y	26:44	0.93	22.6		-	-	*	
PCB-53	6.07e+06	0.78	y	27:21	0.90	723		-	-	*	
PCB-51	1.95e+06	0.81	y	27:41	0.96	218		-	-	*	
PCB-45	5.50e+06	0.80	y	28:05	0.79	751		-	-	*	
PCB-46	2.14e+06	0.80	y	28:33	0.74	309		-	-	*	
PCB-52	4.09e+07	0.79	y	28:59	0.92	4750		-	-	*	Co-elute PCB 69
PCB-69	4.09e+07	0.79	y	28:59	0.92	4750		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.13	*		2280	3220	4.92	
PCB-43	2.54e+07	0.79	y	29:16	0.82	3350		-	-	*	Co-elute PCB 49
PCB-49	2.54e+07	0.79	y	29:16	0.82	3350		-	-	*	Co-elute PCB 43
PCB-47	7.83e+06	0.79	y	29:28	0.81	1030		-	-	*	
PCB-48	7.74e+06	0.82	y	29:35	1.07	774		-	-	*	Co-elute PCB 75
PCB-75	7.74e+06	0.82	y	29:35	1.07	774		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*		2280	3220	5.32	
PCB-62	*	*	n	NotFnd	1.06	*		2280	3220	5.27	
PCB-44	2.20e+07	0.79	y	30:13	0.69	3410		-	-	*	
PCB-42	1.03e+07	0.81	y	30:27	0.90	1230		-	-	*	Co-elute PCB 59
PCB-59	1.03e+07	0.81	y	30:27	0.90	1230		-	-	*	Co-elute PCB 42
PCB-72	2.51e+07	0.79	y	30:59	1.02	2650		-	-	*	Co-elute PCB 41/71/64
PCB-41	2.51e+07	0.79	y	30:59	1.02	2650		-	-	*	Co-elute PCB 72/71/64
PCB-71	2.51e+07	0.79	y	30:59	1.02	2650		-	-	*	Co-elute PCB 72/41/64
PCB-64	2.51e+07	0.79	y	30:59	1.02	2650		-	-	*	Co-elute PCB 72/41/71
PCB-68	5.08e+05	0.88	y	31:13	1.17	46.7		-	-	*	
PCB-40	3.58e+06	0.81	y	31:26	0.65	587		-	-	*	
PCB-57	2.35e+05	0.77	y	31:46	1.07	23.5		-	-	*	
PCB-67	9.16e+05	0.82	y	32:04	1.03	95.9		-	-	*	
PCB-58	1.50e+05	0.86	y	32:10	1.14	14.0	J	-	-	*	
PCB-63	1.11e+06	0.78	y	32:19	1.07	111		-	-	*	
PCB-74	1.04e+07	0.79	y	32:35	1.06	1050		-	-	*	
PCB-61	2.36e+07	0.79	y	32:48	1.00	2540		-	-	*	Co-elute PCB 70
PCB-70	2.36e+07	0.79	y	32:48	1.00	2540		-	-	*	Co-elute PCB 61
PCB-76	1.97e+07	0.80	y	32:59	1.11	1900		-	-	*	Co-elute PCB 66
PCB-66	1.97e+07	0.80	y	32:59	1.11	1900		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.29	*		2280	3220	4.30	
PCB-55	9.65e+05	0.78	y	33:31	1.13	91.7		-	-	*	
13C-PCB-54	9.31e+07	0.81	y	25:37	1.34	7950					79.5
PCB-104	1.76e+07	1.57	y	30:05	1.09	1940		-	-	*	
PCB-96	3.46e+05	1.53	y	31:16	1.05	39.6		-	-	*	
PCB-103	4.45e+05	1.41	y	31:46	0.84	63.9		-	-	*	
PCB-100	1.76e+05	1.69	y	32:06	0.85	24.9		-	-	*	
PCB-94	1.33e+05	1.34	y	32:33	0.70	23.0		-	-	*	
PCB-98	*	*	n	NotFnd	0.70	*		687	496	2.02	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.70	*		687	496	2.02	Co-elute PCB 98
PCB-95	2.01e+07	1.56	y	33:03	0.77	3140		-	-	*	
PCB-93	*	*	n	NotFnd	0.76	*		687	496	1.86	
PCB-88	*	*	n	NotFnd	0.78	*		687	496	1.80	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.78	*		687	496	1.80	Co-elute PCB 88
PCB-121	3.35e+07	1.57	y	33:31	0.97	4170		-	-	*	
13C-PCB-104	8.33e+07	1.60	y	30:02	1.08	8820					88.2
13C-PCB-28	1.45e+08	1.07	y	26:41	1.80	9220					92.2
13C-PCB-52	8.73e+07	0.80	y	28:58	-	108					

PCB-56	1.28e+07	0.80	y	33:59	1.15	1040		-	-	*	Co-elute PCB 60
PCB-60	1.28e+07	0.80	y	33:59	1.15	1040		-	-	*	Co-elute PCB 56
PCB-79	3.44e+05	0.77	y	34:59	1.22	26.5		-	-	*	
PCB-78	2.48e+07	0.79	y	35:40	1.19	1960		-	-	*	
PCB-81	6.26e+05	0.75	y	36:10	1.25	47.5		-	-	*	
13C-PCB-81	1.05e+08	0.81	y	36:08	1.49	9540					95.4
PCB-77	1.05e+06	0.89	y	36:43	1.08	90.7		-	-	*	
13C-PCB-77	1.07e+08	0.83	y	36:42	1.57	9200					92.0
PCB-155	3.19e+07	1.27	y	34:14	1.04	3440		-	-	*	
PCB-150	8.23e+04	1.18	y	35:25	0.98	9.46	J	-	-	*	
PCB-152	*	*	n	NotFnd	0.95	*		628	644	1.64	
PCB-145	*	*	n	NotFnd	0.97	*		628	644	1.60	
PCB-136	3.30e+06	1.23	y	36:37	0.95	390		-	-	*	
PCB-148	*	*	n	NotFnd	0.70	*		628	644	2.24	
PCB-154	4.22e+05	1.21	y	37:10	0.81	58.6		-	-	*	
13C-PCB-155	8.92e+07	1.27	y	34:11	1.37	8810					88.1
13C-PCB-111	8.35e+07	1.59	y	36:16	1.21	9290					92.9
13C-PCB-101	7.41e+07	1.61	y	34:38	-	105					
PCB-84	1.05e+07	1.56	y	34:19	0.77	1440		-	-	*	Co-elute PCB 92
PCB-92	1.05e+07	1.56	y	34:19	0.77	1440		-	-	*	Co-elute PCB 84
PCB-89	4.35e+05	1.55	y	34:29	0.76	59.9		-	-	*	
PCB-90	2.35e+07	1.60	y	34:39	0.82	3000		-	-	*	Co-elute PCB 101
PCB-101	2.35e+07	1.60	y	34:39	0.82	3000		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.92	*		2290	1550	4.93	
PCB-99	1.03e+07	1.56	y	34:58	0.91	1190		-	-	*	
PCB-119	7.97e+05	1.51	y	35:25	1.01	82.6		-	-	*	
PCB-83	1.14e+06	1.64	y	35:33	0.82	145		-	-	*	Co-elute PCB 112
PCB-112	1.14e+06	1.64	y	35:33	0.82	145		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.00	*		2290	1550	4.54	
PCB-97	5.59e+06	1.60	y	35:54	0.69	850		-	-	*	
PCB-86	*	*	n	NotFnd	0.72	*		2290	1550	6.32	
PCB-125	8.07e+06	1.70	y	36:10	0.90	939		-	-	*	Co-elute PCB 87/117
PCB-87	8.07e+06	1.70	y	36:10	0.90	939		-	-	*	Co-elute PCB 125/117
PCB-117	8.07e+06	1.70	y	36:10	0.90	939		-	-	*	Co-elute PCB 125/87
PCB-111	3.99e+05	1.60	y	36:19	1.01	41.1		-	-	*	Co-elute PCB 115
PCB-115	3.99e+05	1.60	y	36:19	1.01	41.1		-	-	*	Co-elute PCB 111
PCB-85	3.02e+06	1.69	y	36:25	0.91	348		-	-	*	Co-elute PCB 116
PCB-116	3.02e+06	1.69	y	36:25	0.91	348		-	-	*	Co-elute PCB 85
PCB-120	1.08e+05	1.55	y	36:38	1.04	10.8	J	-	-	*	
PCB-110	2.48e+07	1.59	y	36:48	1.03	2530		-	-	*	
PCB-82	1.77e+06	1.59	y	37:23	0.60	306		-	-	*	
PCB-124	7.81e+05	1.67	y	38:03	1.21	67.5		-	-	*	
PCB-108	1.33e+06	1.46	y	38:11	1.14	122		-	-	*	Co-elute PCB 107
PCB-107	1.33e+06	1.46	y	38:11	1.14	122		-	-	*	Co-elute PCB 108
PCB-123	2.62e+05	1.38	y	38:21	1.04	27.2		-	-	*	
13C-PCB-123	9.25e+07	1.57	y	38:19	1.28	9690					96.9
PCB-118	1.52e+07	1.54	y	38:31	1.10	1400		-	-	*	Co-elute PCB 106
PCB-106	1.52e+07	1.54	y	38:31	1.10	1400		-	-	*	Co-elute PCB 118
13C-PCB-118	9.88e+07	1.61	y	38:29	1.39	9490					94.9
PCB-114	4.33e+05	1.61	y	39:09	1.23	36.3		-	-	*	
13C-PCB-114	9.67e+07	1.61	y	39:07	1.31	9870					98.7
PCB-122	2.10e+05	1.64	y	39:15	1.12	19.6	J	-	-	*	
PCB-105	5.29e+06	1.53	y	39:57	1.19	470		-	-	*	
13C-PCB-105	9.45e+07	1.58	y	39:57	1.32	9550					95.5

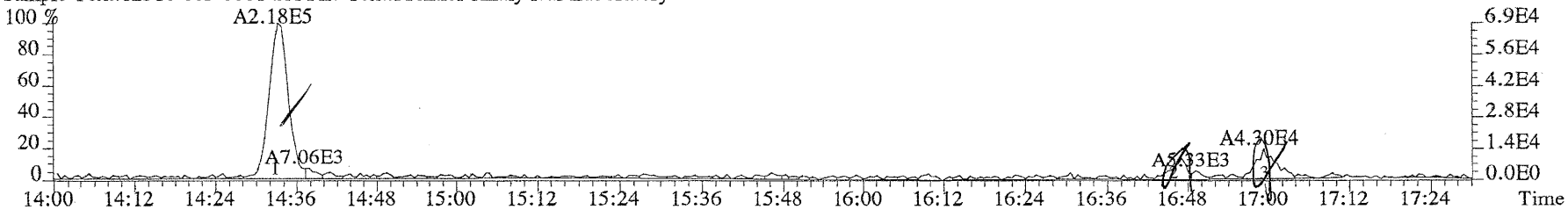
PCB-127	*	*	n	NotFnd	1.09	*		1400	1250	2.88	
PCB-126	6.41e+04	1.43	y	42:03	1.12	6.53	J	-	-	*	
13C-PCB-126	8.80e+07	1.59	y	42:03	1.25	9400					94.0
PCB-151	4.02e+06	1.26	y	37:47	0.91	549		-	-	*	
PCB-135	2.31e+06	1.25	y	38:00	0.86	336		-	-	*	
PCB-144	8.07e+05	1.32	y	38:05	1.09	92.1		-	-	*	
PCB-147	3.25e+05	1.35	y	38:13	1.01	40.0		-	-	*	
PCB-139	1.38e+07	1.24	y	38:28	1.04	1650		-	-	*	Co-elute PCB 149
PCB-149	1.38e+07	1.24	y	38:28	1.04	1650		-	-	*	Co-elute PCB 139
PCB-140	1.92e+05	1.08	y	38:38	1.03	23.1		-	-	*	
PCB-143	8.22e+05	1.30	y	39:04	0.84	122		-	-	*	Co-elute PCB 134
PCB-134	8.22e+05	1.30	y	39:04	0.84	122		-	-	*	Co-elute PCB 143
PCB-131	3.41e+05	1.25	y	39:19	0.85	50.1		-	-	*	Co-elute PCB 133
PCB-133	3.41e+05	1.25	y	39:19	0.85	50.1		-	-	*	Co-elute PCB 131
PCB-142	6.99e+07	1.24	y	39:29	0.85	10200		-	-	*	
PCB-165	2.87e+06	1.25	y	39:42	1.12	320		-	-	*	Co-elute PCB 146
PCB-146	2.87e+06	1.25	y	39:42	1.12	320		-	-	*	Co-elute PCB 165
PCB-161	4.56e+06	1.25	y	39:58	1.04	547		-	-	*	Co-elute PCB 132
PCB-132	4.56e+06	1.25	y	39:58	1.04	547		-	-	*	Co-elute PCB 161
PCB-153	1.42e+07	1.27	y	40:05	1.16	1520		-	-	*	
PCB-168	*	*	n	NotFnd	1.25	*		1710	1520	3.61	
PCB-141	2.18e+06	1.21	y	40:46	0.94	290		-	-	*	
PCB-137	4.33e+05	1.19	y	41:09	0.86	62.8		-	-	*	
PCB-130	7.73e+05	1.22	y	41:14	0.90	107		-	-	*	
PCB-138	1.34e+07	1.27	y	41:35	1.13	1480		-	-	*	Co-elute PCB 163/164
PCB-163	1.34e+07	1.27	y	41:35	1.13	1480		-	-	*	Co-elute PCB 138/164
PCB-164	1.34e+07	1.27	y	41:35	1.13	1480		-	-	*	Co-elute PCB 138/163
PCB-158	1.53e+06	1.26	y	41:49	1.25	153		-	-	*	Co-elute PCB 160
PCB-160	1.53e+06	1.26	y	41:49	1.25	153		-	-	*	Co-elute PCB 158
PCB-129	4.73e+05	1.33	y	42:03	0.81	73.1		-	-	*	
PCB-166	*	*	n	NotFnd	1.18	*		1710	1520	3.80	
PCB-159	2.30e+05	1.32	y	42:49	1.27	22.6		-	-	*	
PCB-128	1.80e+06	1.29	y	43:04	1.05	215		-	-	*	Co-elute PCB 162
PCB-162	1.80e+06	1.29	y	43:04	1.05	215		-	-	*	Co-elute PCB 128
PCB-167	3.53e+05	1.30	y	43:26	1.15	38.2		-	-	*	
13C-PCB-167	8.07e+07	1.29	y	43:24	1.14	9480					94.8
PCB-156	1.00e+06	1.28	y	44:40	1.21	105		-	-	*	
13C-PCB-156	7.85e+07	1.29	y	44:38	1.12	9350					93.5
PCB-157	1.73e+05	1.38	y	44:55	1.17	18.2	J	-	-	*	
13C-PCB-157	8.15e+07	1.28	y	44:55	1.15	9460					94.6
PCB-169	*	*	n	NotFnd	1.10	*		1710	1520	3.69	
13C-PCB-169	7.99e+07	1.29	y	46:46	1.07	9950					99.5

FAL ID: 12510-005-0001-SA Filename: 31JUL19Z Sam:9 Acquired: 31-JUL-19 20:12:46 ICal: DAILY209FAL4-7-31-19
Client ID: LDW-Y2-SU-ENR+AC-CB-S010 ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

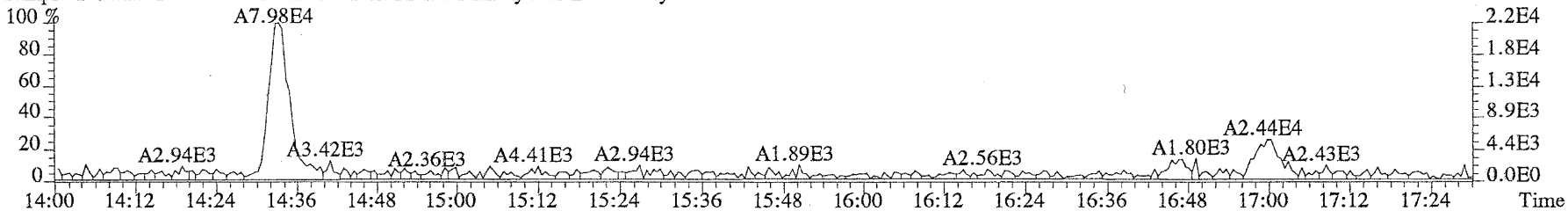
PCB-188	9.89e+04	0.99	y	39:43	1.05	12.1	J	-	-	*	
13C-PCB-188	7.78e+07	1.05	y	39:42	1.18	8840					88.4
PCB-184	4.10e+07	1.05	y	40:08	1.20	4610		-	-	*	
PCB-179	1.58e+06	1.02	y	40:53	1.13	190		-	-	*	
PCB-176	4.57e+05	1.08	y	41:19	1.10	56.2		-	-	*	
PCB-186	*	*	n	NotFnd	1.11	*		1240	688	2.17	
PCB-178	4.77e+05	1.03	y	42:21	0.76	85.1		-	-	*	
PCB-175	8.24e+04	1.13	y	42:41	0.77	14.5	J	-	-	*	
PCB-187	2.88e+06	1.05	y	42:49	0.87	446		-	-	*	Co-elute PCB 182
PCB-182	2.88e+06	1.05	y	42:49	0.87	446		-	-	*	Co-elute PCB 187
PCB-183	1.26e+06	1.04	y	43:09	0.86	198		-	-	*	
PCB-185	2.16e+05	0.94	y	43:47	0.77	37.8		-	-	*	
PCB-174	1.96e+06	1.00	y	44:07	0.79	336		-	-	*	
PCB-181	*	*	n	NotFnd	0.78	*		1240	688	3.09	
PCB-177	1.09e+06	1.04	y	44:23	0.70	209		-	-	*	
PCB-171	4.52e+05	1.08	y	44:40	0.77	79.4		-	-	*	
PCB-173	*	*	n	NotFnd	0.68	*		1240	688	3.53	
PCB-172	8.97e+05	1.08	y	45:26	0.72	169		-	-	*	
PCB-192	2.74e+07	1.05	y	45:37	0.97	3830		-	-	*	
PCB-180	3.27e+06	1.03	y	45:47	0.75	591		-	-	*	
PCB-193	2.63e+05	0.92	y	45:59	1.05	33.8		-	-	*	
PCB-191	5.02e+04	1.12	y	46:10	0.99	6.83	J	-	-	*	
PCB-170	1.14e+06	1.08	y	47:06	0.71	216		-	-	*	
PCB-190	3.31e+05	0.99	y	47:14	0.96	46.7		-	-	*	
PCB-189	6.40e+04	1.10	y	48:27	1.00	9.16	J	-	-	*	
13C-PCB-189	7.01e+07	1.05	y	48:25	1.01	9290					92.9
PCB-202	1.92e+05	0.93	y	44:50	1.02	30.0		-	-	*	
PCB-201	*	*	n	NotFnd	1.10	*		308	572	1.45	
PCB-204	6.22e+07	0.90	y	45:26	1.11	8910		-	-	*	
PCB-197	3.95e+05	1.02	y	45:41	1.15	54.8		-	-	*	
PCB-200	1.05e+05	0.91	y	46:27	1.11	15.0	J	-	-	*	
PCB-198	3.38e+04	1.01	y	47:36	0.78	6.94	J	-	-	*	
PCB-199	5.54e+05	0.96	y	47:42	0.74	118		-	-	*	
PCB-203	5.91e+05	0.93	y	47:57	0.83	113		-	-	*	Co-elute PCB 196
PCB-196	5.91e+05	0.93	y	47:57	0.83	113		-	-	*	Co-elute PCB 203
13C-PCB-202	6.28e+07	0.90	y	44:48	0.95	8880					88.8
13C-PCB-178	5.59e+07	1.06	y	42:20	0.80	9370					93.7
13C-PCB-138	7.48e+07	1.29	y	41:34	-	101					
PCB-195	2.14e+05	0.92	y	49:03	0.78	38.4		-	-	*	
PCB-194	4.72e+05	0.94	y	49:50	0.86	77.1		-	-	*	
PCB-205	4.08e+04	0.77	y	50:06	1.09	5.25	J	-	-	*	
13C-PCB-205	7.15e+07	0.91	y	50:06	1.29	9140					91.4
PCB-208	7.19e+04	1.14	y	49:10	1.05	9.82	J	-	-	*	
13C-PCB-208	6.96e+07	0.81	y	49:09	1.15	9950					99.5
PCB-207	3.09e+05	1.30	y	49:27	1.23	42.6		-	-	*	
PCB-206	1.21e+05	1.22	y	51:18	1.08	23.3		-	-	*	
13C-PCB-206	4.80e+07	0.80	y	51:18	0.88	9010					90.1
PCB-209	3.16e+05	1.21	y	52:29	1.13	48.2		-	-	*	
13C-PCB-209	5.79e+07	1.19	y	52:28	1.08	8850					88.5
13C-PCB-194	6.06e+07	0.91	y	49:50	-	84.4					

Analyst: _____ Date: 8/7/19

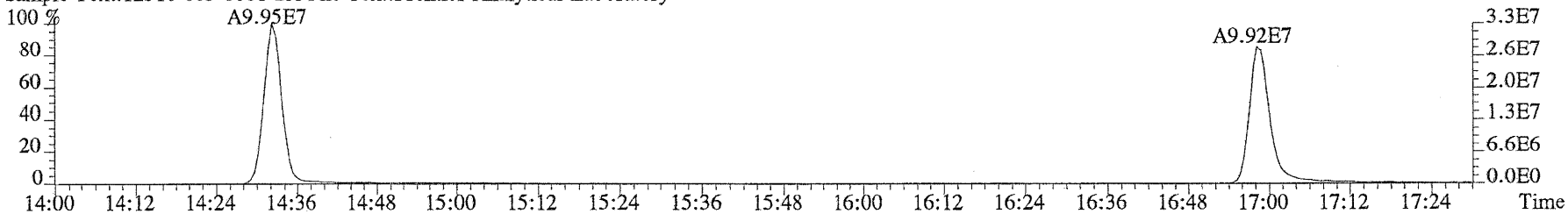
File:31JUL19Z #1-783 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



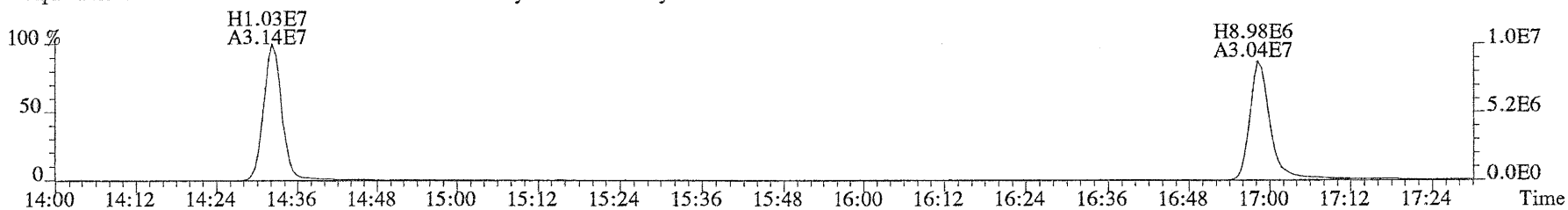
File:31JUL19Z #1-783 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



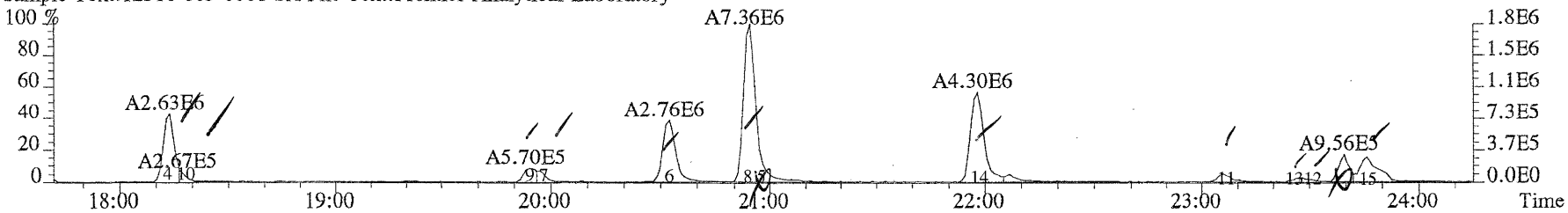
File:31JUL19Z #1-783 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



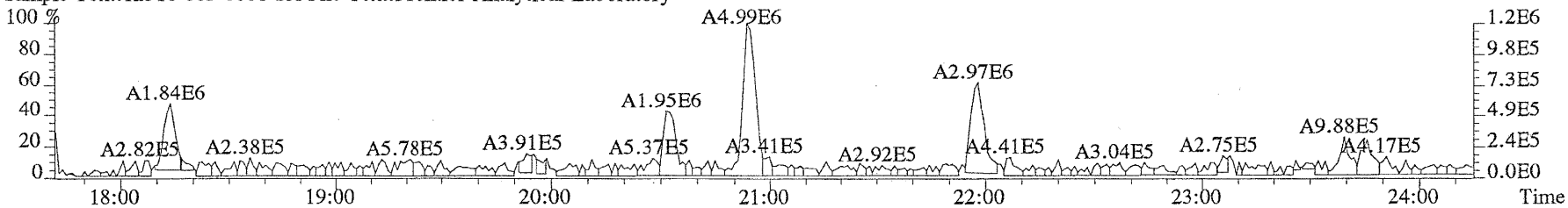
File:31JUL19Z #1-783 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



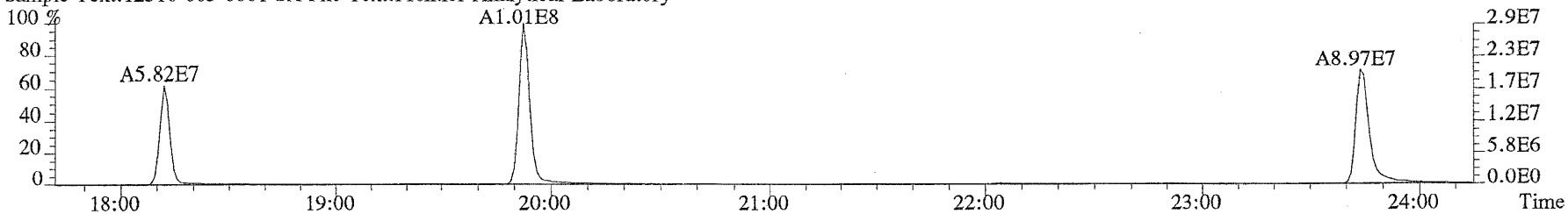
File:31JUL19Z #1-521 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



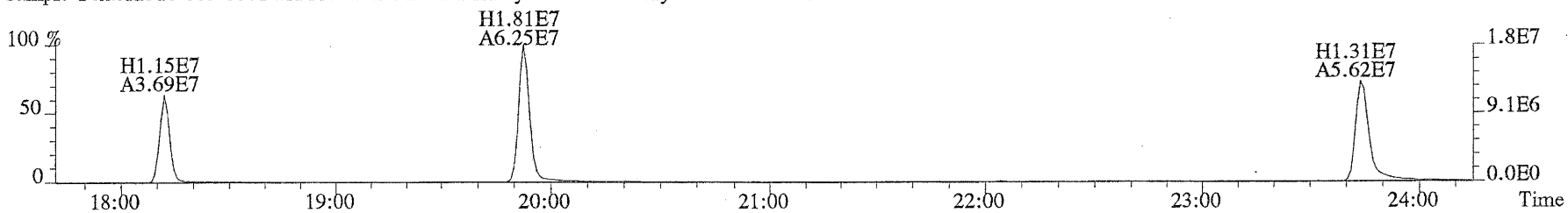
File:31JUL19Z #1-521 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



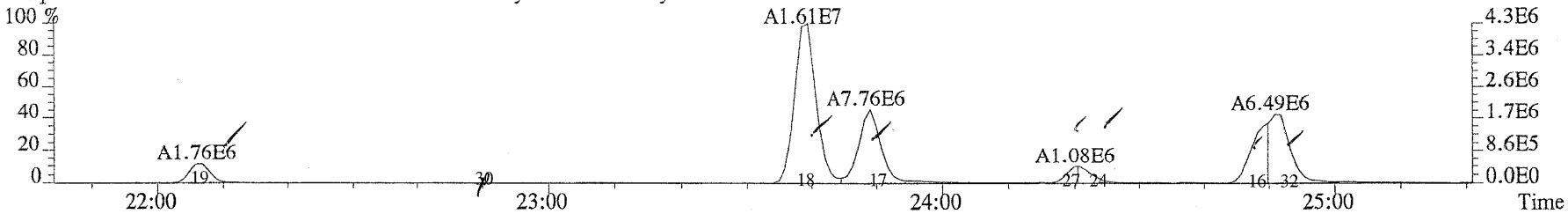
File:31JUL19Z #1-521 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



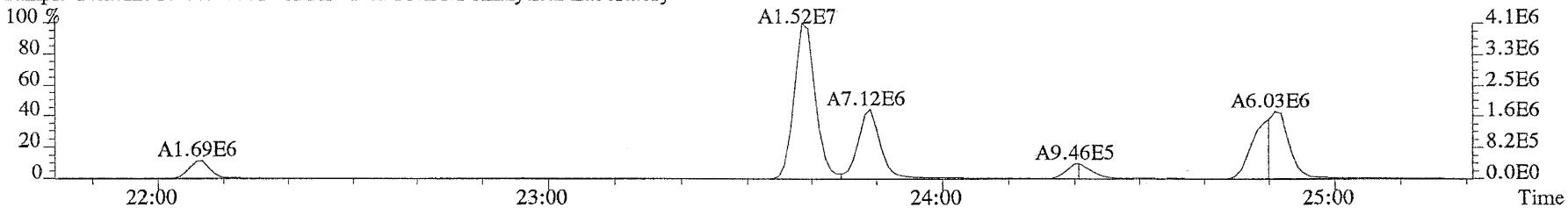
File:31JUL19Z #1-521 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



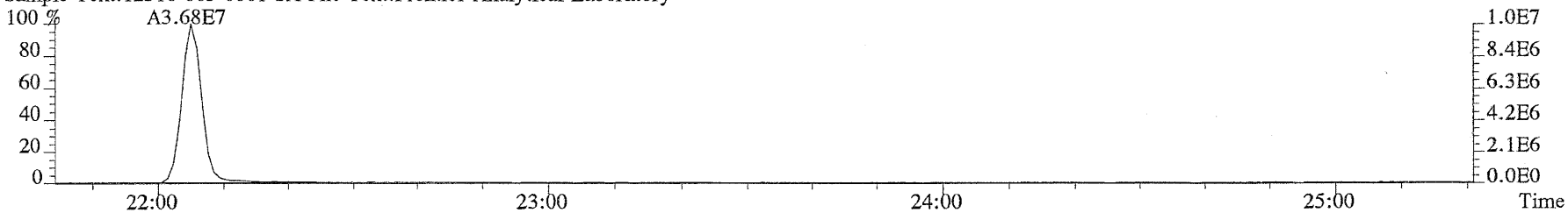
File:31JUL19Z #1-521 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



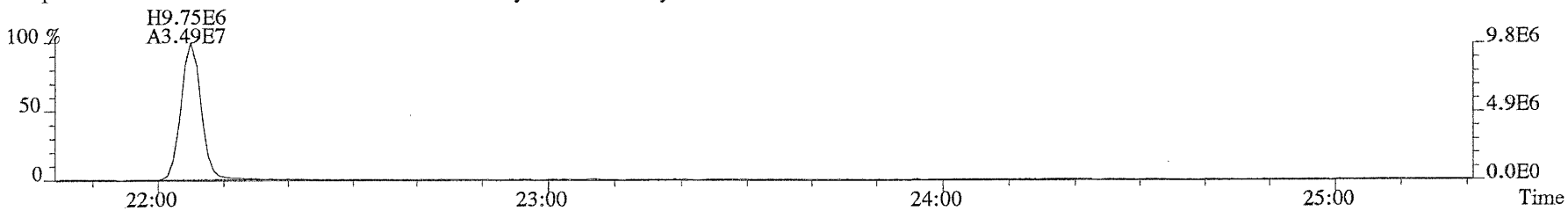
File:31JUL19Z #1-521 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



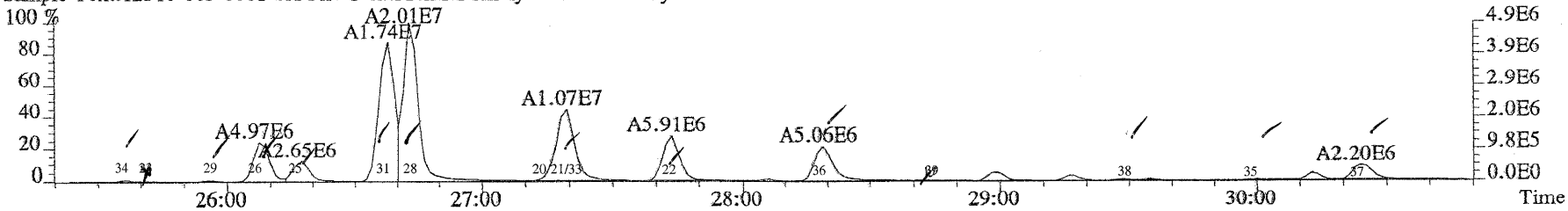
File:31JUL19Z #1-521 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



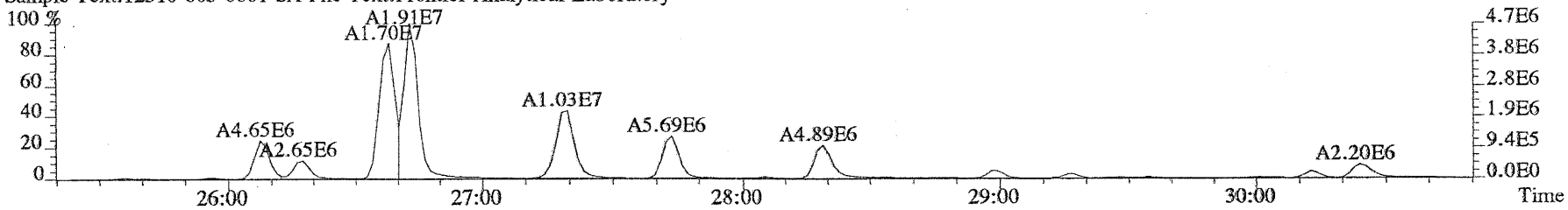
File:31JUL19Z #1-521 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



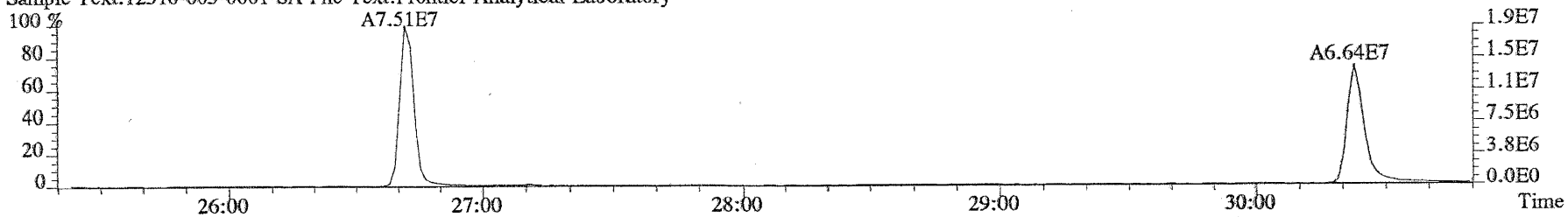
File:31JUL19Z #1-401 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



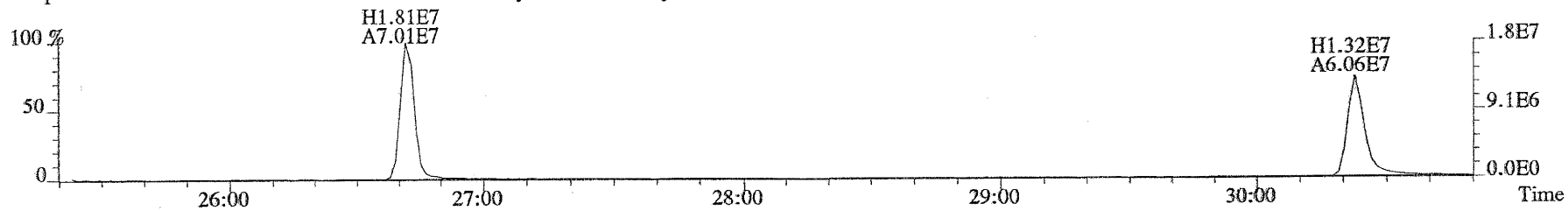
File:31JUL19Z #1-401 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



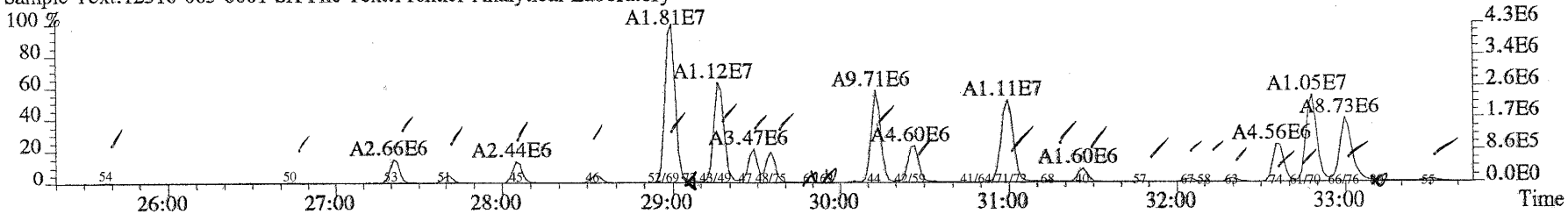
File:31JUL19Z #1-401 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



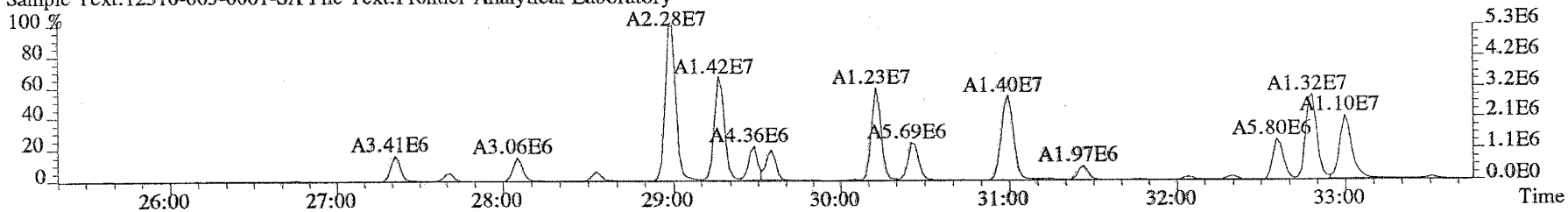
File:31JUL19Z #1-401 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



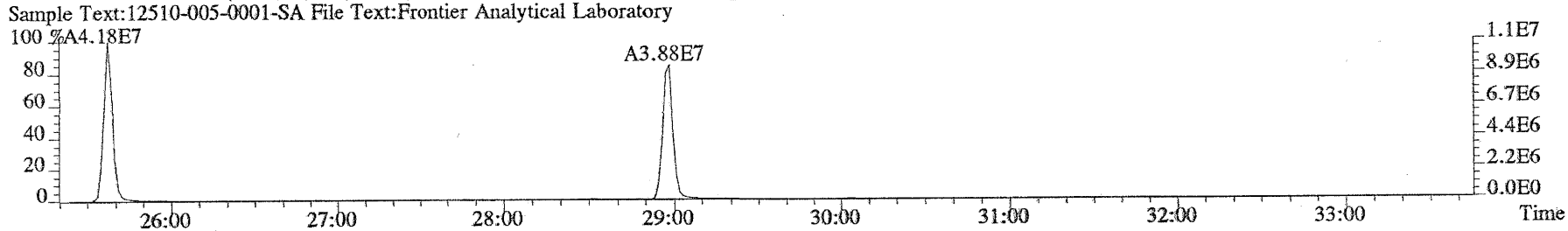
File:31JUL19Z #1-401 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



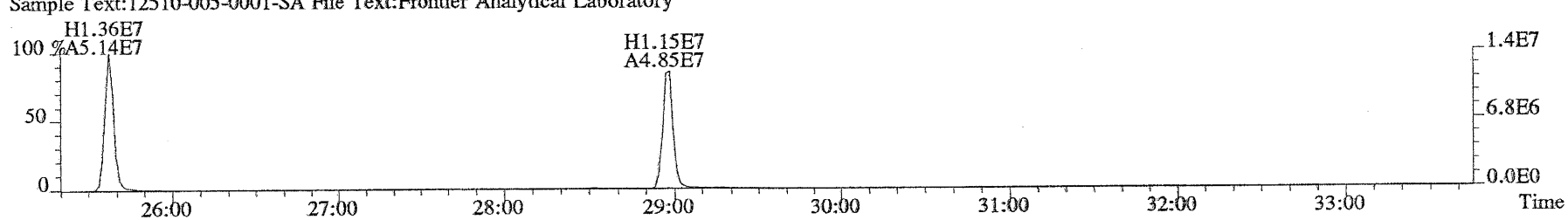
File:31JUL19Z #1-401 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



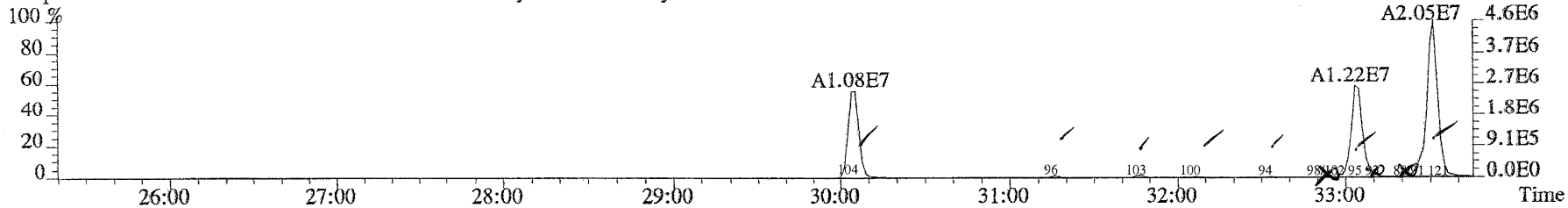
File:31JUL19Z #1-401 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



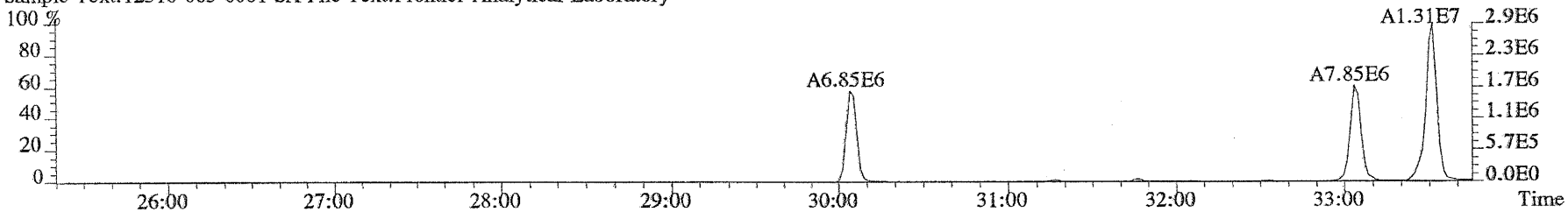
File:31JUL19Z #1-401 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



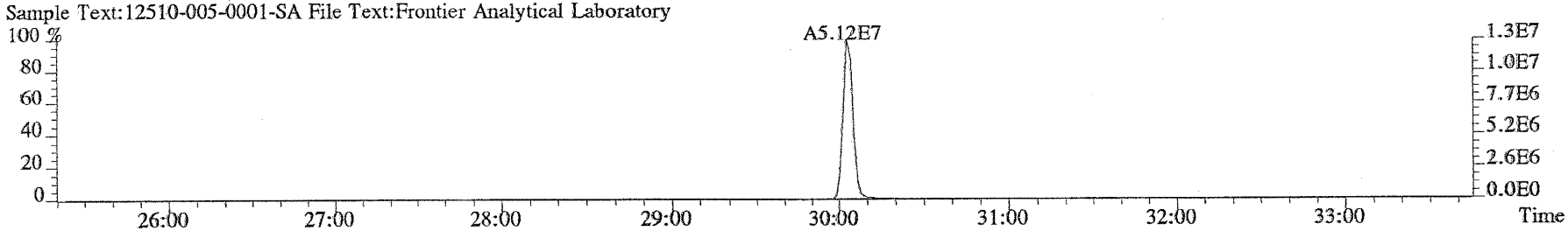
File:31JUL19Z #1-401 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



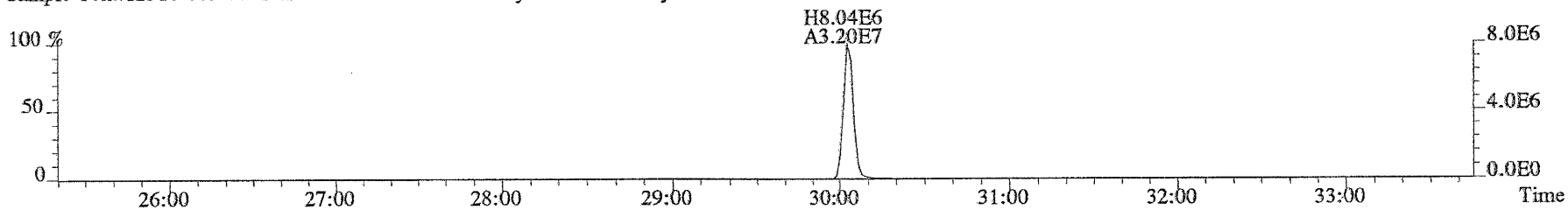
File:31JUL19Z #1-401 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



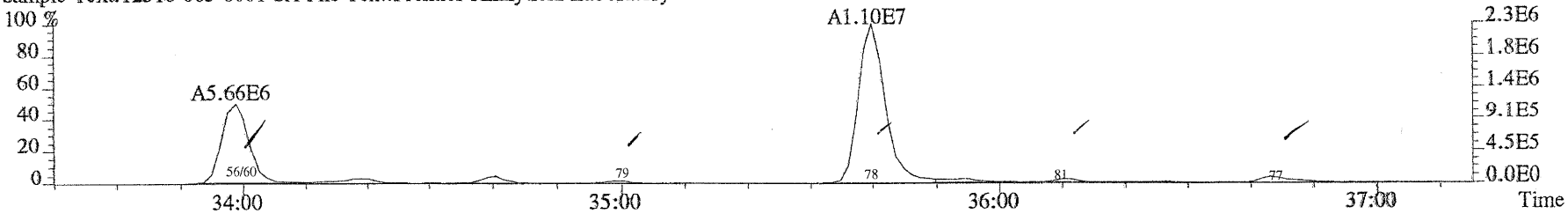
File:31JUL19Z #1-401 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



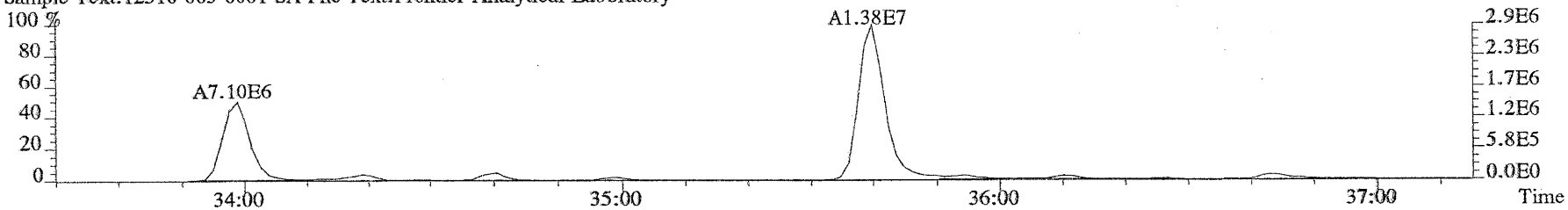
File:31JUL19Z #1-401 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



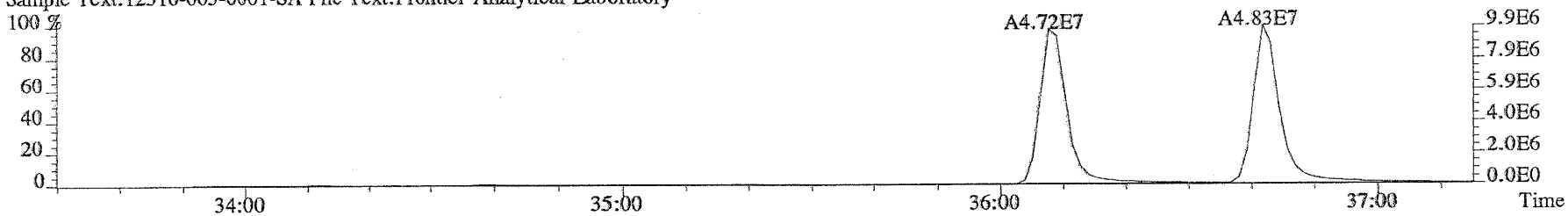
File:31JUL19Z #1-180 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



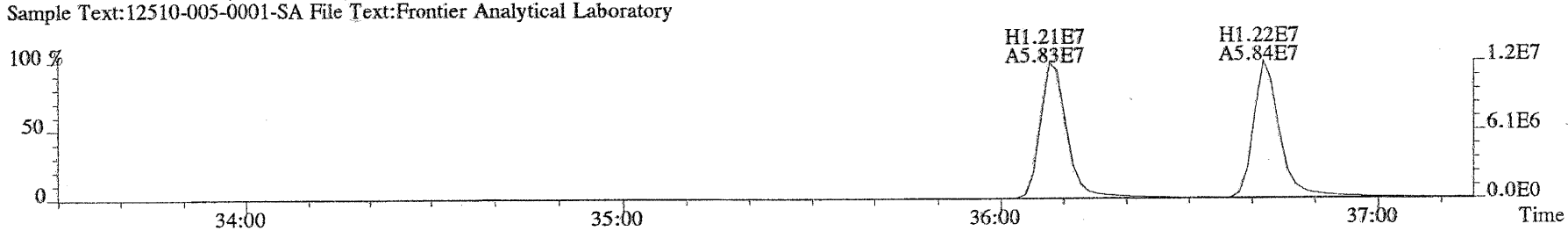
File:31JUL19Z #1-180 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



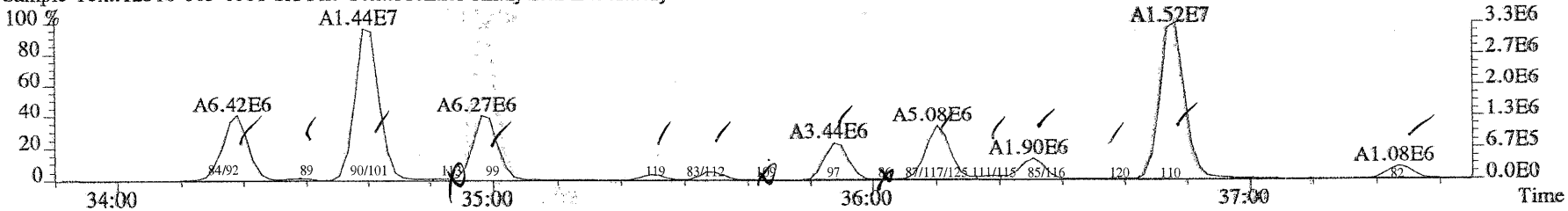
File:31JUL19Z #1-180 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



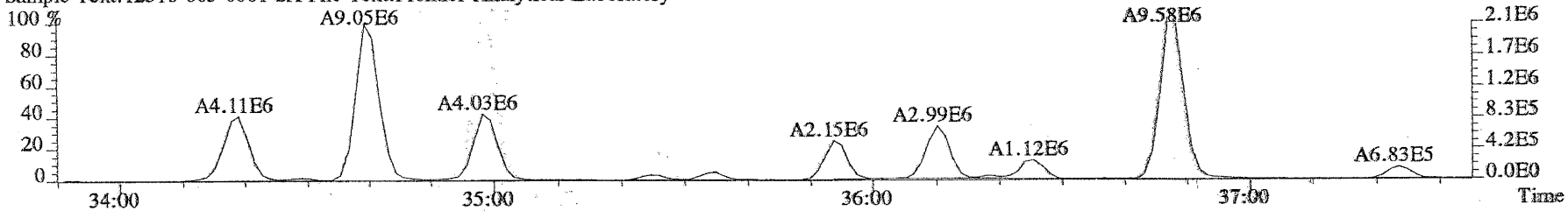
File:31JUL19Z #1-180 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



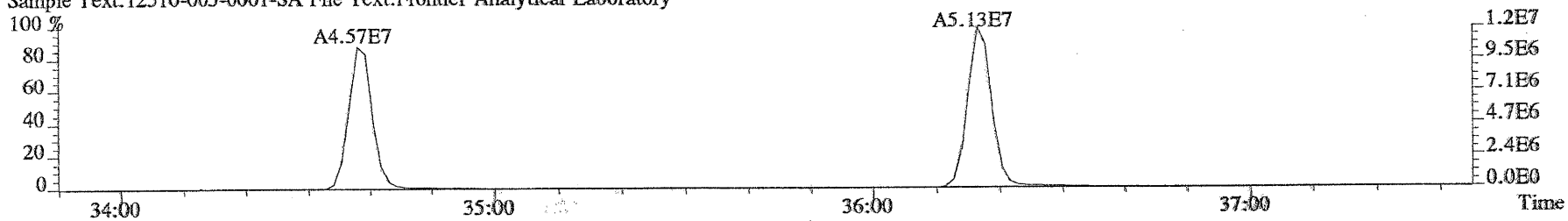
File:31JUL19Z #1-180 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



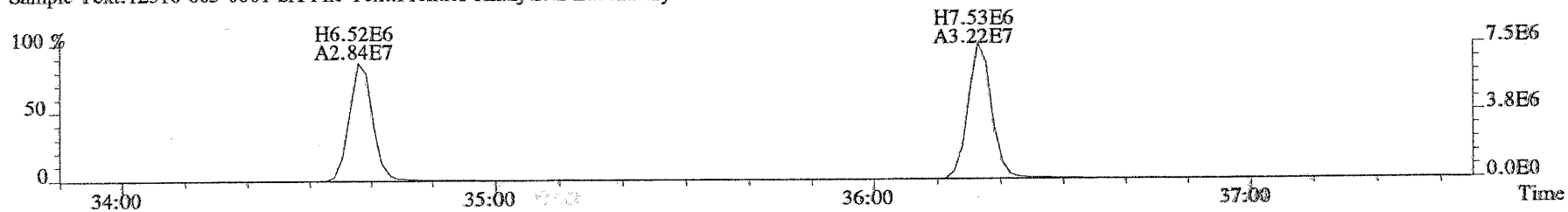
File:31JUL19Z #1-180 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



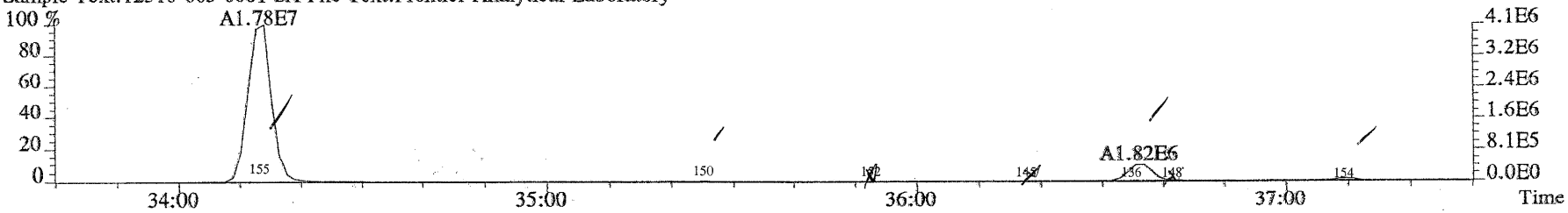
File:31JUL19Z #1-180 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



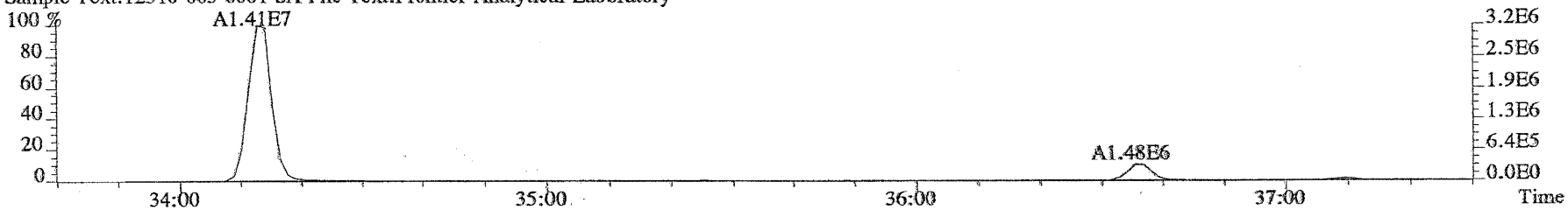
File:31JUL19Z #1-180 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



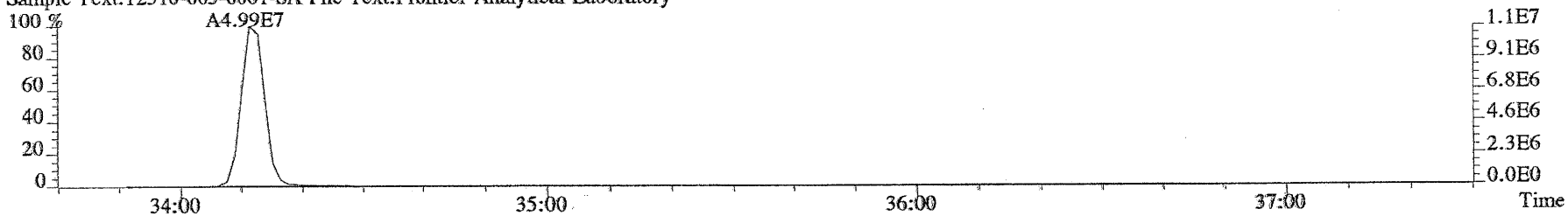
File:31JUL19Z #1-180 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



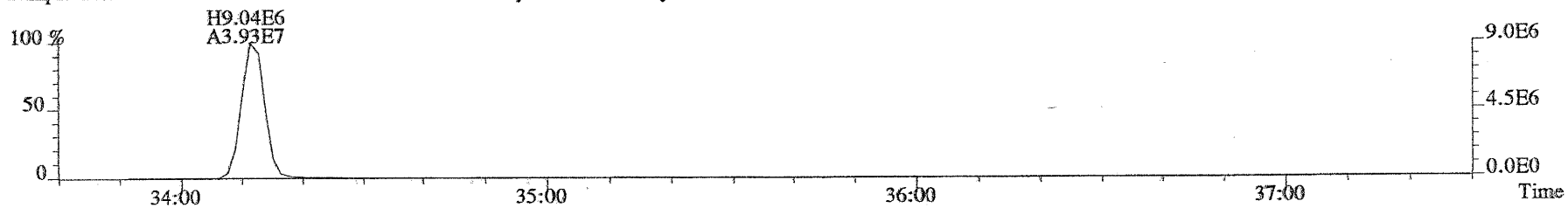
File:31JUL19Z #1-180 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



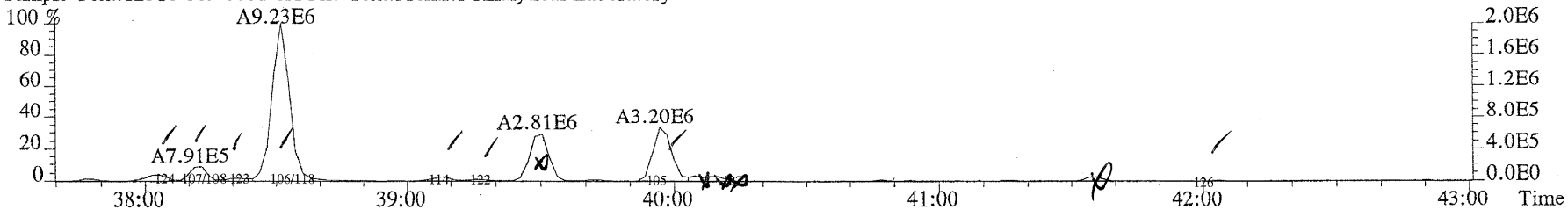
File:31JUL19Z #1-180 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



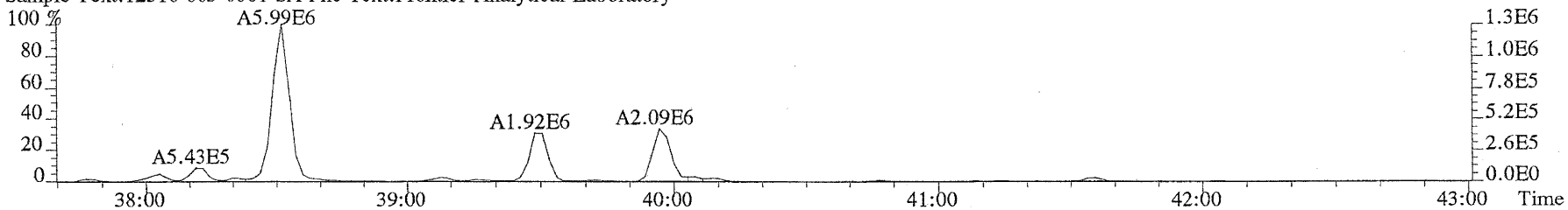
File:31JUL19Z #1-180 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



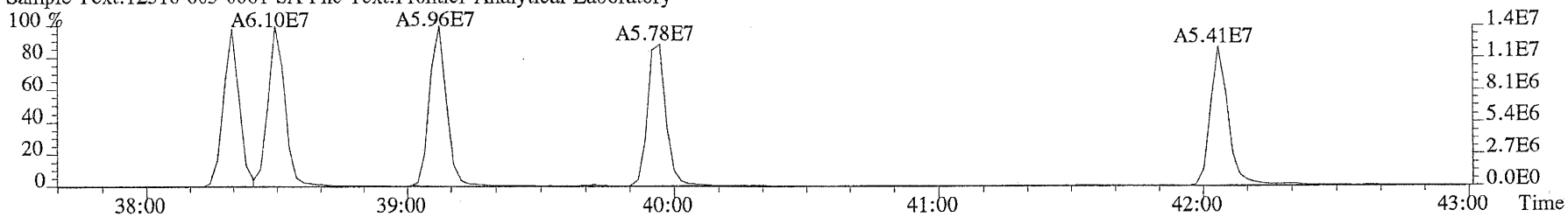
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



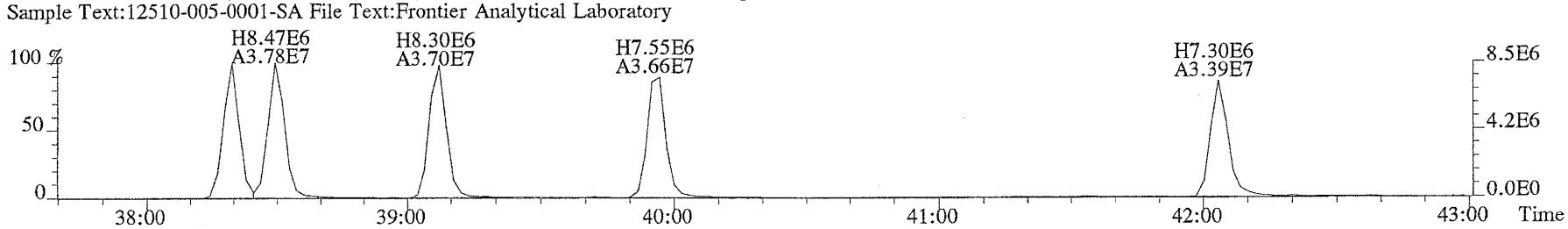
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



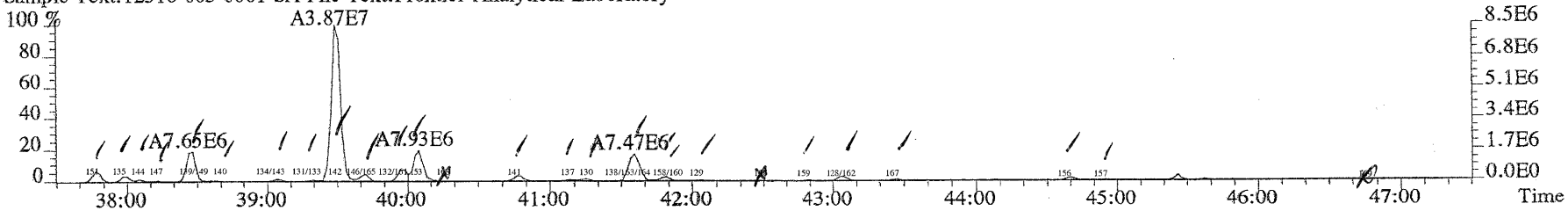
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



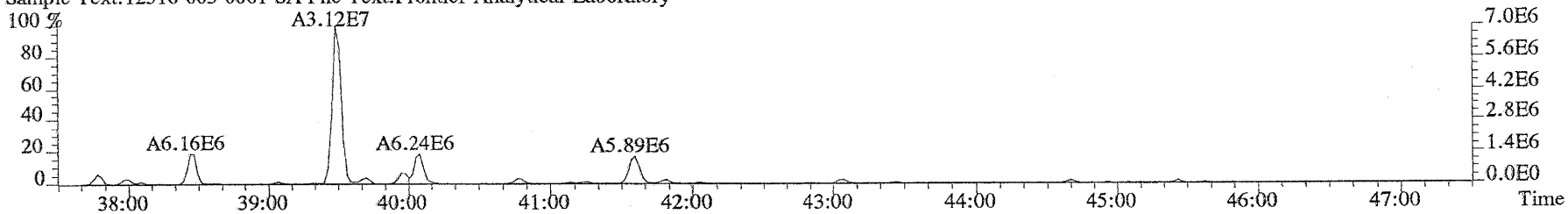
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



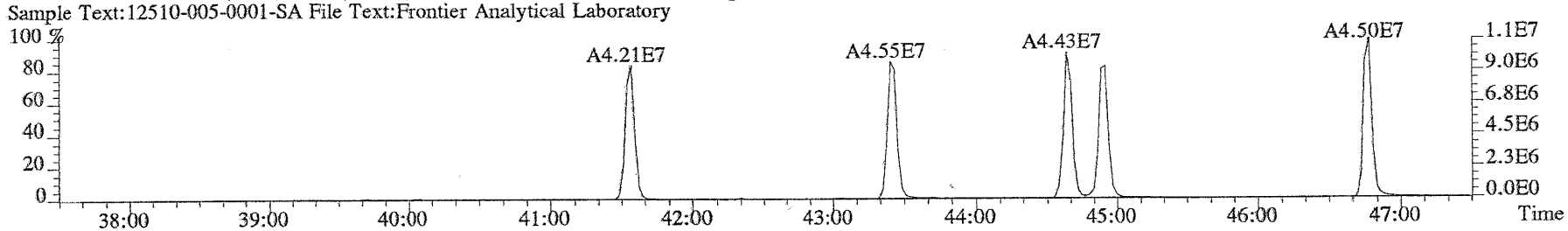
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



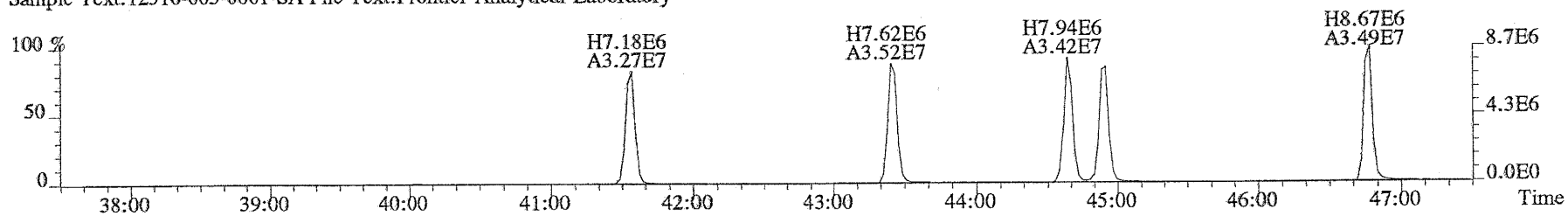
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



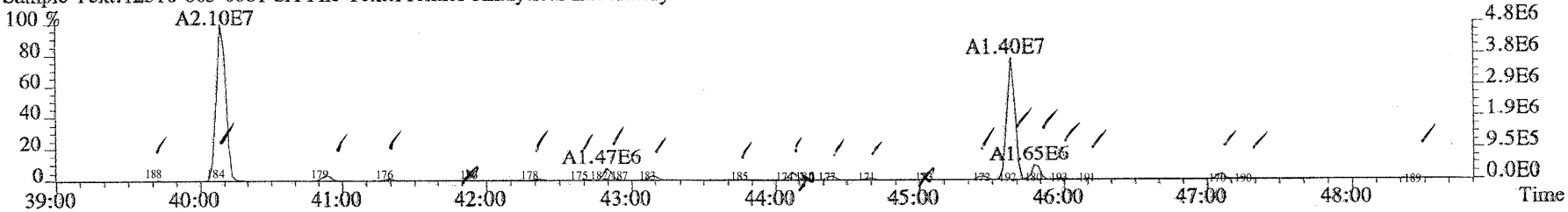
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



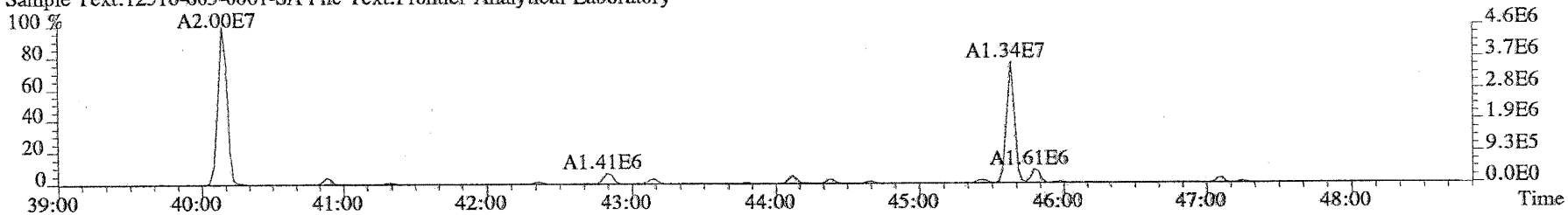
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



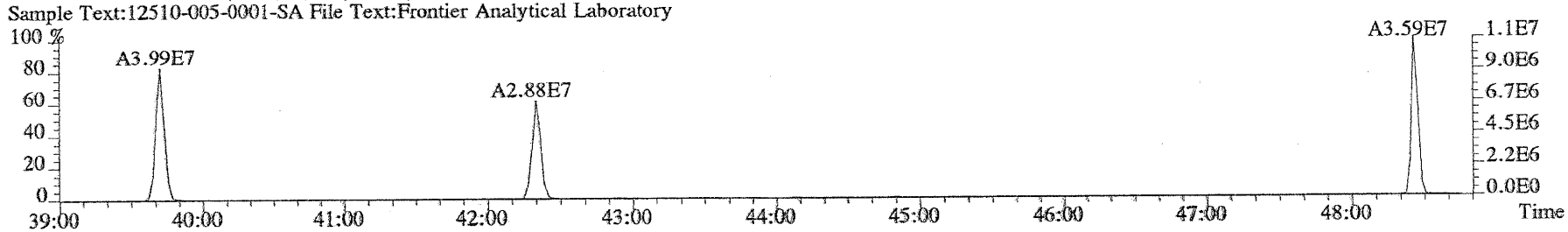
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



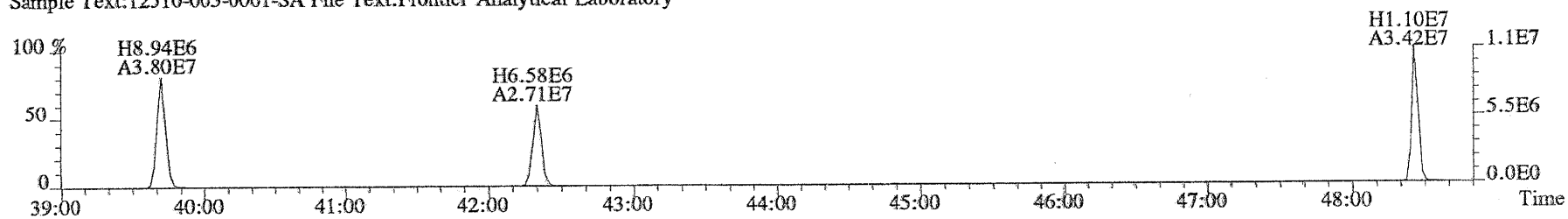
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



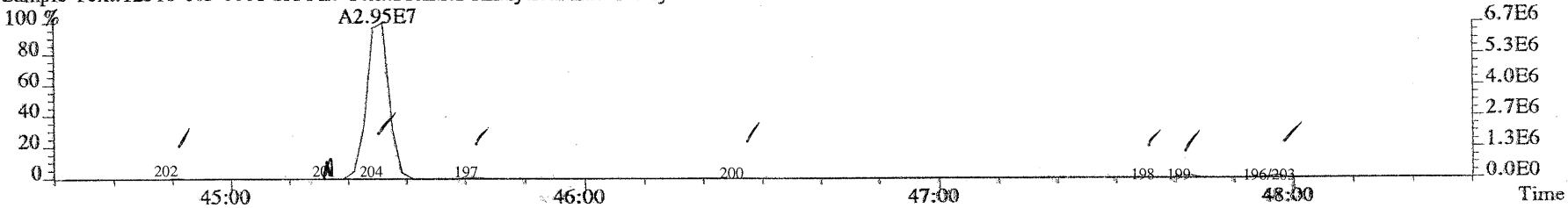
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



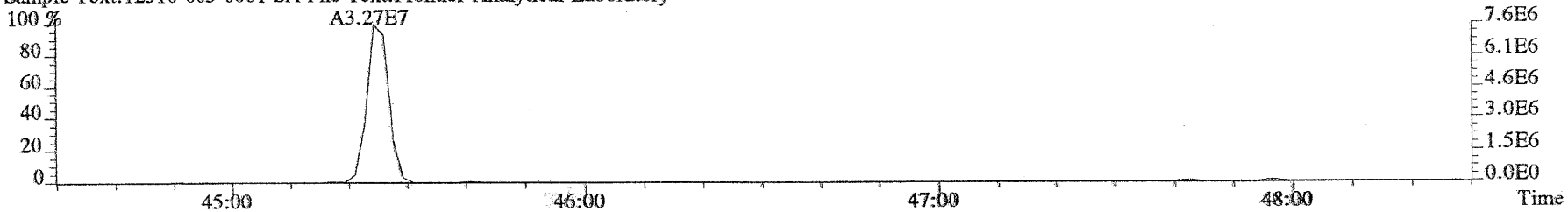
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



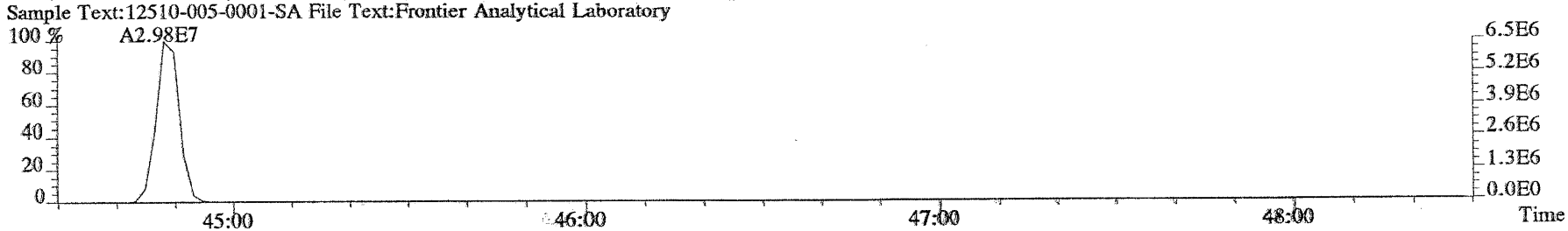
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



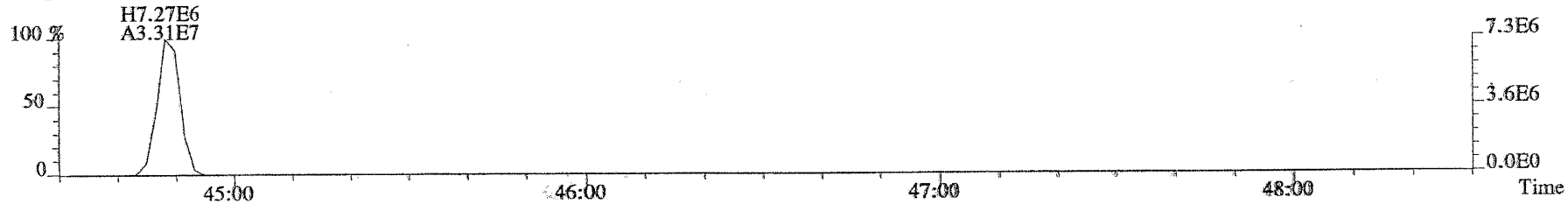
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



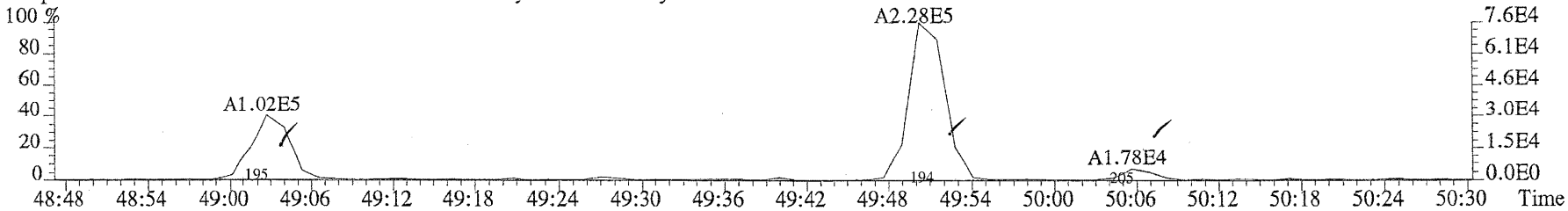
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



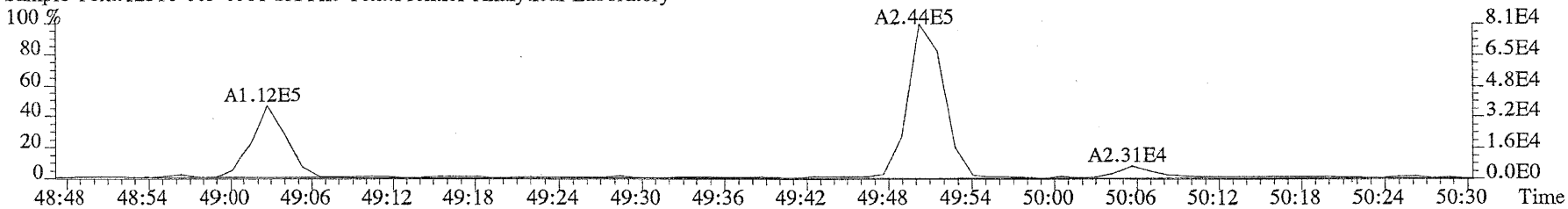
File:31JUL19Z #1-405 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



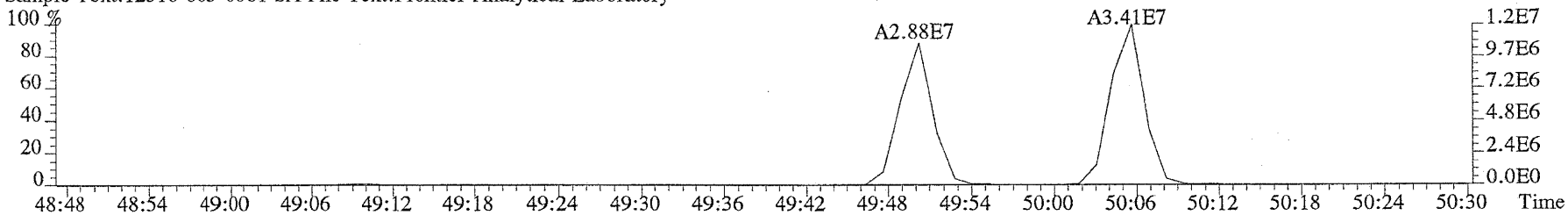
File:31JUL19Z #1-315 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



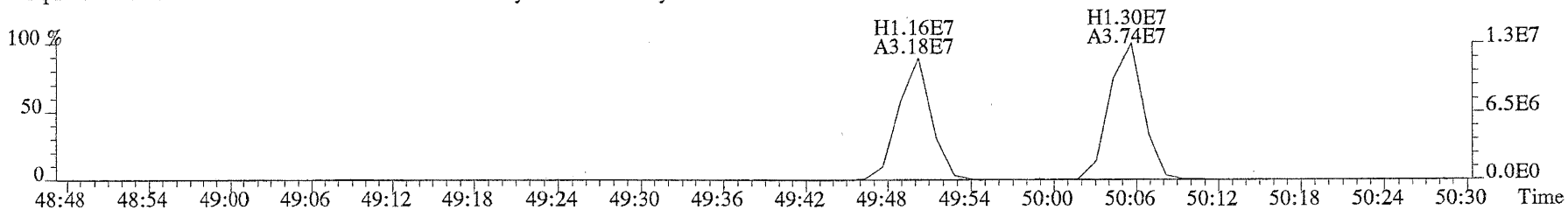
File:31JUL19Z #1-315 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



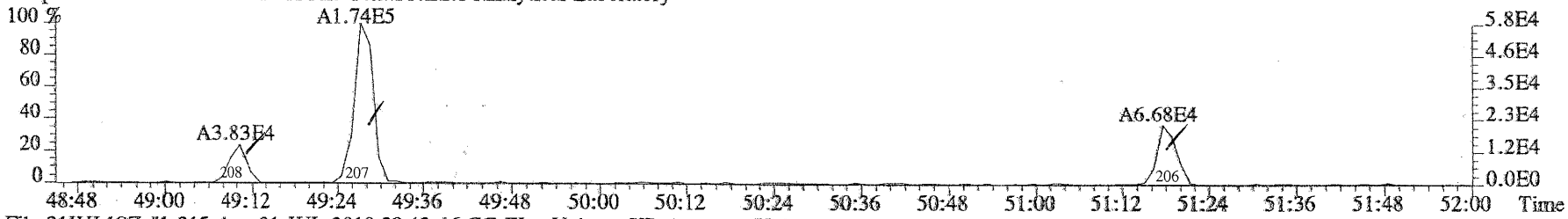
File:31JUL19Z #1-315 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



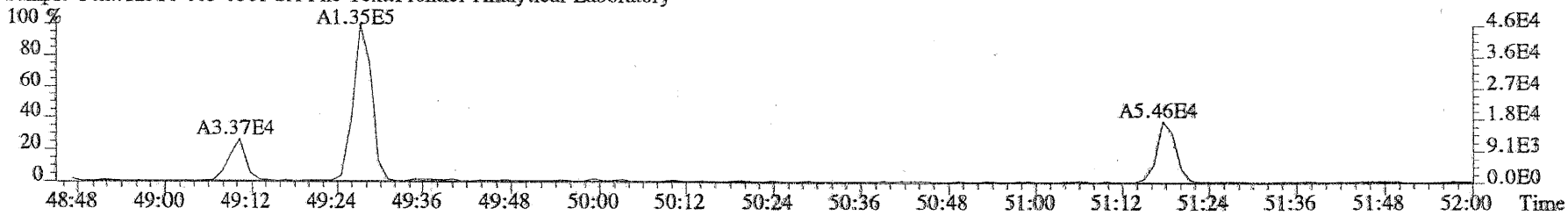
File:31JUL19Z #1-315 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



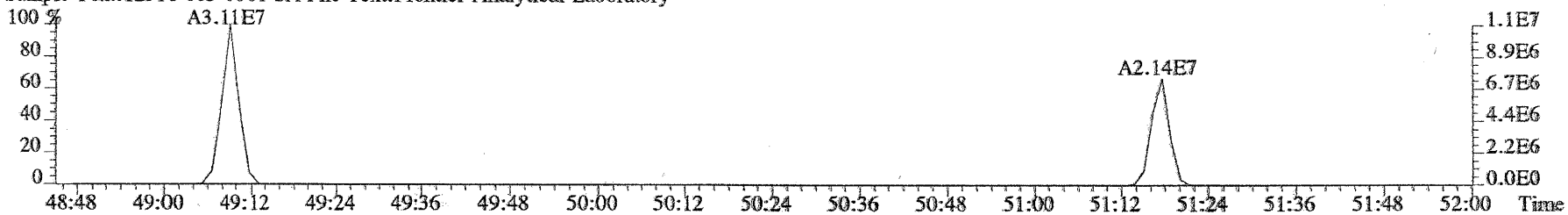
File:31JUL19Z #1-315 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



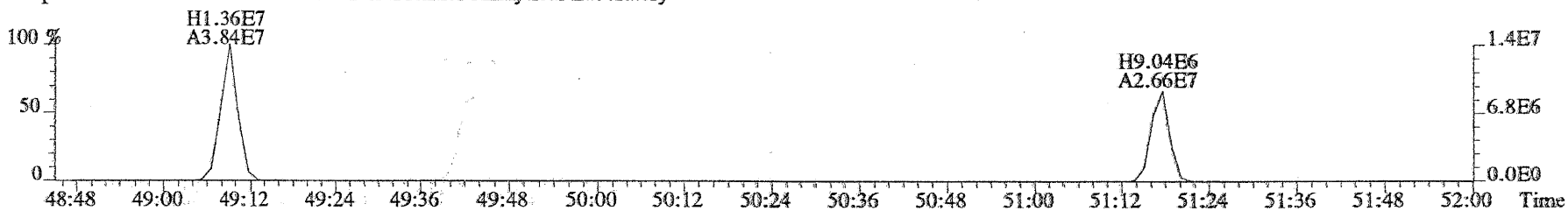
File:31JUL19Z #1-315 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



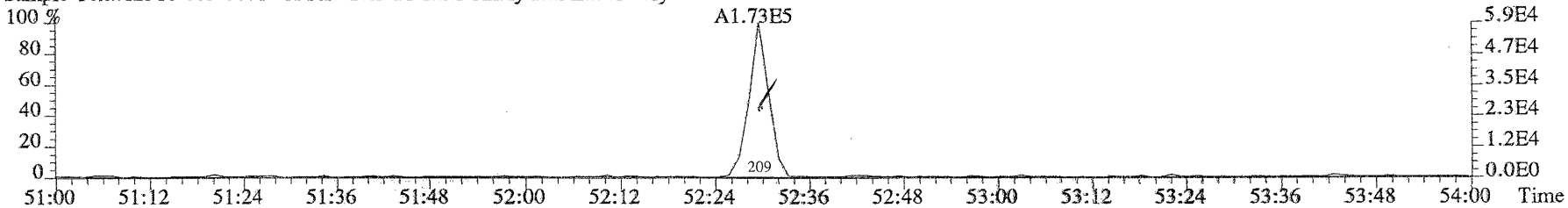
File:31JUL19Z #1-315 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



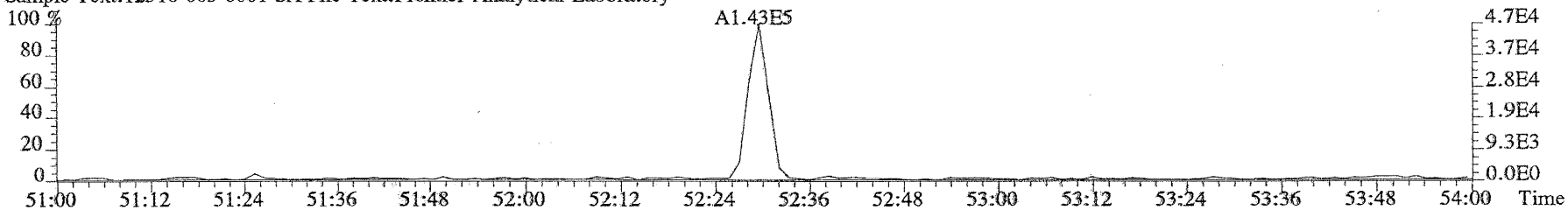
File:31JUL19Z #1-315 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



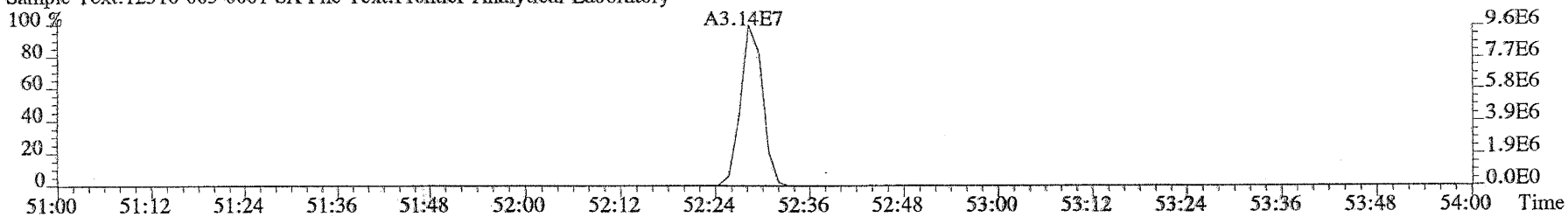
File:31JUL19Z #1-315 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



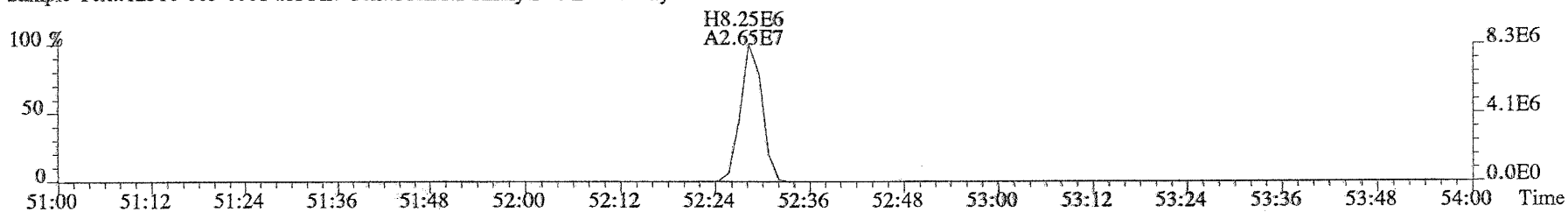
File:31JUL19Z #1-315 Acq:31-JUL-2019 20:12:46 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-005-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 20:12:46 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:12510-005-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 20:12:46 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:12510-005-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12510-006-0001-SA Filename: 31JUL19Z Sam:10 Acquired: 31-JUL-19 21:11:07 ICal: DAILY209FAL4-7-31-19
Client ID: LDW-Y2-SU-ENR+AC-CC-S010 ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.93e+05	3.01 y	14:32	1.20	20.9		-	-	*	
13C-PCB-1	7.68e+07	3.20 y	14:31	0.94	8520					85.2
PCB-2	*	* n	NotFnd	1.19	*		2110	1640	3.73	
PCB-3	*	* n	NotFnd	1.22	*		2110	1640	4.13	
13C-PCB-3	7.11e+07	3.16 y	16:58	0.88	8400					84.0
PCB-4	7.33e+06	1.41 y	18:13	1.16	1150		-	-	*	
PCB-10	6.91e+05	1.53 y	18:17	1.41	73.6		-	-	*	
13C-PCB-4	5.49e+07	1.58 y	18:12	0.67	8500					85.0
PCB-9	9.28e+05	1.40 y	19:54	1.44	96.6		-	-	*	
PCB-7	9.09e+05	1.45 y	19:55	1.43	95.8		-	-	*	
PCB-6	4.82e+06	1.48 y	20:32	1.49	486		-	-	*	
PCB-8	1.45e+07	1.52 y	20:54	1.36	1610		-	-	*	
PCB-5	*	* n	NotFnd	1.45	*		1080	7120	8.51	
PCB-14	3.51e+06	1.43 y	21:58	1.36	388		-	-	*	
PCB-11	5.51e+05	1.48 y	23:06	1.24	66.7		-	-	*	
PCB-13	2.15e+05	1.35 y	23:28	1.24	25.9		-	-	*	
PCB-12	1.34e+05	1.50 y	23:29	1.28	15.7	J	-	-	*	
PCB-15	1.41e+06	1.56 y	23:46	1.16	156		-	-	*	
13C-PCB-15	7.80e+07	1.59 y	23:45	0.91	8870					88.7
PCB-19	5.45e+06	1.12 y	22:06	1.16	1130		-	-	*	
PCB-30	*	* n	NotFnd	1.70	*		1610	1410	3.78	
PCB-18	5.09e+07	1.06 y	23:39	1.12	10900		-	-	*	
PCB-17	2.19e+07	1.07 y	23:49	1.27	4160		-	-	*	
PCB-27	2.49e+06	1.03 y	24:21	1.62	371		-	-	*	
PCB-24	2.66e+06	1.10 y	24:22	1.68	382		-	-	*	
PCB-16	1.60e+07	1.07 y	24:50	1.38	2800		-	-	*	
PCB-32	1.66e+07	1.02 y	24:51	1.46	2740		-	-	*	
13C-PCB-19	4.15e+07	1.07 y	22:05	0.49	8740					87.4
13C-PCB-9	9.63e+07	1.62 y	19:53	-	56.9					
PCB-34	4.29e+05	1.01 y	25:36	1.23	52.8		-	-	*	
PCB-23	1.25e+05	1.11 y	25:41	1.39	13.7	J	-	-	*	
PCB-29	4.12e+05	0.96 y	25:56	1.33	46.9		-	-	*	
PCB-26	1.07e+07	1.02 y	26:08	1.26	1280		-	-	*	
PCB-25	5.17e+06	1.01 y	26:17	1.26	624		-	-	*	
PCB-31	4.37e+07	1.16 y	26:37	1.19	5570		-	-	*	
PCB-28	4.51e+07	0.93 y	26:43	1.60	4280		-	-	*	
PCB-20	2.70e+07	1.04 y	27:19	1.25	3280		-	-	*	Co-elute PCB 21/33
PCB-21	2.70e+07	1.04 y	27:19	1.25	3280		-	-	*	Co-elute PCB 20/33
PCB-33	2.70e+07	1.04 y	27:19	1.25	3280		-	-	*	Co-elute PCB 20/21
PCB-22	1.45e+07	1.03 y	27:44	1.40	1570		-	-	*	
PCB-36	4.57e+06	1.02 y	28:19	1.24	558		-	-	*	
PCB-39	*	* n	NotFnd	1.25	*		2530	2020	6.94	
PCB-38	3.46e+05	0.98 y	29:28	1.27	41.4		-	-	*	
PCB-35	2.61e+05	0.91 y	30:02	1.14	34.7		-	-	*	
PCB-37	4.35e+06	1.09 y	30:25	1.21	546		-	-	*	
13C-PCB-37	6.60e+07	1.05 y	30:23	1.51	8500					85.0

PCB-54	2.52e+05	0.72	y	25:39	1.24	36.6		-	-	*	
PCB-50	2.45e+05	0.82	y	26:45	0.93	47.3		-	-	*	
PCB-53	8.27e+06	0.79	y	27:21	0.90	1660		-	-	*	
PCB-51	2.53e+06	0.77	y	27:40	0.96	475		-	-	*	
PCB-45	7.48e+06	0.78	y	28:05	0.79	1720		-	-	*	
PCB-46	2.88e+06	0.79	y	28:33	0.74	701		-	-	*	
PCB-52	6.21e+07	0.79	y	28:59	0.92	12100		-	-	*	Co-elute PCB 69
PCB-69	6.21e+07	0.79	y	28:59	0.92	12100		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.13	*		2280	2520	7.54	
PCB-43	3.25e+07	0.79	y	29:16	0.82	7190		-	-	*	Co-elute PCB 49
PCB-49	3.25e+07	0.79	y	29:16	0.82	7190		-	-	*	Co-elute PCB 43
PCB-47	9.96e+06	0.79	y	29:28	0.81	2210		-	-	*	
PCB-48	9.47e+06	0.81	y	29:34	1.07	1590		-	-	*	Co-elute PCB 75
PCB-75	9.47e+06	0.81	y	29:34	1.07	1590		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*		2280	2520	8.17	
PCB-62	*	*	n	NotFnd	1.06	*		2280	2520	8.09	
PCB-44	3.13e+07	0.78	y	30:13	0.69	8150		-	-	*	
PCB-42	1.29e+07	0.78	y	30:26	0.90	2590		-	-	*	Co-elute PCB 59
PCB-59	1.29e+07	0.78	y	30:26	0.90	2590		-	-	*	Co-elute PCB 42
PCB-72	3.32e+07	0.78	y	31:00	1.02	5870		-	-	*	Co-elute PCB 41/71/64
PCB-41	3.32e+07	0.78	y	31:00	1.02	5870		-	-	*	Co-elute PCB 72/71/64
PCB-71	3.32e+07	0.78	y	31:00	1.02	5870		-	-	*	Co-elute PCB 72/41/64
PCB-64	3.32e+07	0.78	y	31:00	1.02	5870		-	-	*	Co-elute PCB 72/41/71
PCB-68	4.39e+05	0.79	y	31:14	1.17	67.8		-	-	*	
PCB-40	4.73e+06	0.81	y	31:26	0.65	1300		-	-	*	
PCB-57	2.50e+05	0.83	y	31:47	1.07	41.9		-	-	*	
PCB-67	1.01e+06	0.79	y	32:04	1.03	178		-	-	*	
PCB-58	1.22e+05	0.69	y	32:11	1.14	19.3	J	-	-	*	
PCB-63	1.34e+06	0.81	y	32:20	1.07	227		-	-	*	
PCB-74	1.31e+07	0.79	y	32:36	1.06	2240		-	-	*	
PCB-61	3.22e+07	0.79	y	32:49	1.00	5800		-	-	*	Co-elute PCB 70
PCB-70	3.22e+07	0.79	y	32:49	1.00	5800		-	-	*	Co-elute PCB 61
PCB-76	2.41e+07	0.80	y	33:00	1.11	3910		-	-	*	Co-elute PCB 66
PCB-66	2.41e+07	0.80	y	33:00	1.11	3910		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.29	*		2280	2520	6.60	
PCB-55	1.02e+06	0.85	y	33:30	1.13	163		-	-	*	
13C-PCB-54	5.54e+07	0.82	y	25:38	1.34	8030					80.3
PCB-104	1.00e+07	1.53	y	30:04	1.09	1910		-	-	*	
PCB-96	4.78e+05	1.53	y	31:16	1.05	95.2		-	-	*	
PCB-103	3.74e+05	1.60	y	31:47	0.84	93.4		-	-	*	
PCB-100	1.53e+05	1.47	y	32:07	0.85	37.6		-	-	*	
PCB-94	1.74e+05	1.43	y	32:33	0.70	52.1		-	-	*	
PCB-98	*	*	n	NotFnd	0.70	*		340	560	2.53	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.70	*		340	560	2.53	Co-elute PCB 98
PCB-95	3.11e+07	1.57	y	33:04	0.77	8450		-	-	*	
PCB-93	*	*	n	NotFnd	0.76	*		340	560	2.33	
PCB-88	*	*	n	NotFnd	0.78	*		340	560	2.26	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.78	*		340	560	2.26	Co-elute PCB 88
PCB-121	2.06e+07	1.57	y	33:32	0.97	4440		-	-	*	
13C-PCB-104	4.79e+07	1.63	y	30:03	1.08	8620					86.2
13C-PCB-28	7.96e+07	1.04	y	26:42	1.80	8590					85.9
13C-PCB-52	5.14e+07	0.81	y	28:57	-	63.4					

PCB-56	1.60e+07	0.78	y	33:59	1.15	2350		-	-	*	Co-elute PCB 60
PCB-60	1.60e+07	0.78	y	33:59	1.15	2350		-	-	*	Co-elute PCB 56
PCB-79	4.91e+05	0.66	y	34:60	1.22	67.8		-	-	*	
PCB-78	1.23e+07	0.80	y	35:40	1.19	1750		-	-	*	
PCB-81	9.01e+05	0.87	y	36:11	1.25	121		-	-	*	
13C-PCB-81	5.96e+07	0.81	y	36:08	1.49	8720					87.2
PCB-77	1.26e+06	0.85	y	36:44	1.08	198		-	-	*	
13C-PCB-77	5.90e+07	0.82	y	36:42	1.57	8230					82.3
PCB-155	1.74e+07	1.27	y	34:13	1.04	3230		-	-	*	
PCB-150	6.38e+04	1.12	y	35:25	0.98	12.6	J	-	-	*	
PCB-152	3.26e+04	1.23	y	35:53	0.95	6.62	J	-	-	*	
PCB-145	*	*	n	NotFnd	0.97	*		528	444	1.99	
PCB-136	4.33e+06	1.24	y	36:36	0.95	879		-	-	*	
PCB-148	*	*	n	NotFnd	0.70	*		528	444	2.78	
PCB-154	2.70e+05	1.29	y	37:10	0.81	64.4		-	-	*	
13C-PCB-155	5.20e+07	1.31	y	34:12	1.37	8320					83.2
13C-PCB-111	4.63e+07	1.60	y	36:17	1.21	8350					83.5
13C-PCB-101	4.57e+07	1.59	y	34:38	-	64.9					
PCB-84	1.53e+07	1.58	y	34:19	0.77	3760		-	-	*	Co-elute PCB 92
PCB-92	1.53e+07	1.58	y	34:19	0.77	3760		-	-	*	Co-elute PCB 84
PCB-89	5.85e+05	1.49	y	34:30	0.76	145		-	-	*	
PCB-90	3.66e+07	1.60	y	34:40	0.82	8410		-	-	*	Co-elute PCB 101
PCB-101	3.66e+07	1.60	y	34:40	0.82	8410		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.92	*		1540	1330	6.33	
PCB-99	1.38e+07	1.59	y	34:59	0.91	2870		-	-	*	
PCB-119	8.00e+05	1.65	y	35:25	1.01	149		-	-	*	
PCB-83	1.62e+06	1.60	y	35:35	0.82	368		-	-	*	Co-elute PCB 112
PCB-112	1.62e+06	1.60	y	35:35	0.82	368		-	-	*	Co-elute PCB 83
PCB-109	3.18e+04	1.37	y	35:44	1.00	5.99	J	-	-	*	
PCB-97	8.85e+06	1.57	y	35:54	0.69	2420		-	-	*	
PCB-86	1.48e+05	1.57	y	36:03	0.72	38.7		-	-	*	
PCB-125	1.35e+07	1.60	y	36:11	0.90	2830		-	-	*	Co-elute PCB 87/117
PCB-87	1.35e+07	1.60	y	36:11	0.90	2830		-	-	*	Co-elute PCB 125/117
PCB-117	1.35e+07	1.60	y	36:11	0.90	2830		-	-	*	Co-elute PCB 125/87
PCB-111	8.55e+05	1.62	y	36:19	1.01	158		-	-	*	Co-elute PCB 115
PCB-115	8.55e+05	1.62	y	36:19	1.01	158		-	-	*	Co-elute PCB 111
PCB-85	4.58e+06	1.48	y	36:26	0.91	949		-	-	*	Co-elute PCB 116
PCB-116	4.58e+06	1.48	y	36:26	0.91	949		-	-	*	Co-elute PCB 85
PCB-120	1.61e+05	1.41	y	36:40	1.04	28.9		-	-	*	
PCB-110	3.79e+07	1.58	y	36:49	1.03	6940		-	-	*	
PCB-82	2.69e+06	1.55	y	37:24	0.60	837		-	-	*	
PCB-124	1.12e+06	1.50	y	38:04	1.21	174		-	-	*	
PCB-108	1.66e+06	1.53	y	38:12	1.14	273		-	-	*	Co-elute PCB 107
PCB-107	1.66e+06	1.53	y	38:12	1.14	273		-	-	*	Co-elute PCB 108
PCB-123	4.10e+05	1.56	y	38:22	1.04	76.3		-	-	*	
13C-PCB-123	5.15e+07	1.58	y	38:20	1.28	9140					91.4
PCB-118	2.16e+07	1.55	y	38:32	1.10	3470		-	-	*	Co-elute PCB 106
PCB-106	2.16e+07	1.55	y	38:32	1.10	3470		-	-	*	Co-elute PCB 118
13C-PCB-118	5.65e+07	1.59	y	38:30	1.39	9200					92.0
PCB-114	6.49e+05	1.61	y	39:09	1.23	97.5		-	-	*	
13C-PCB-114	5.40e+07	1.57	y	39:08	1.31	9340					93.4
PCB-122	3.25e+05	1.54	y	39:16	1.12	54.4		-	-	*	
PCB-105	8.13e+06	1.55	y	39:57	1.19	1340		-	-	*	
13C-PCB-105	5.09e+07	1.56	y	39:57	1.32	8710					87.1

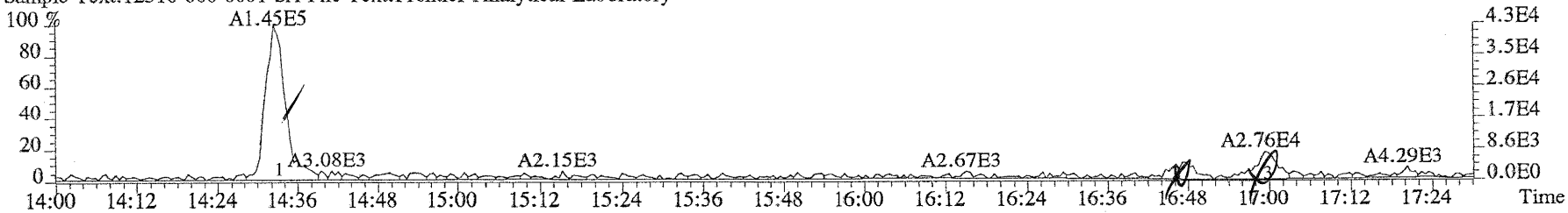
PCB-127	*	*	n	NotFnd	1.09	*		1110	1630	5.10	
PCB-126	9.45e+04	1.35	y	42:04	1.12	17.4	J	-	-	*	
13C-PCB-126	4.86e+07	1.57	y	42:04	1.25	8810					88.1
PCB-151	4.73e+06	1.23	y	37:47	0.91	1160		-	-	*	
PCB-135	2.82e+06	1.22	y	37:59	0.86	737		-	-	*	
PCB-144	1.10e+06	1.29	y	38:05	1.09	226		-	-	*	
PCB-147	4.45e+05	1.19	y	38:13	1.01	98.7		-	-	*	
PCB-139	1.72e+07	1.27	y	38:27	1.04	3690		-	-	*	Co-elute PCB 149
PCB-149	1.72e+07	1.27	y	38:27	1.04	3690		-	-	*	Co-elute PCB 139
PCB-140	1.53e+05	1.36	y	38:38	1.03	33.2		-	-	*	
PCB-143	1.20e+06	1.20	y	39:04	0.84	321		-	-	*	Co-elute PCB 134
PCB-134	1.20e+06	1.20	y	39:04	0.84	321		-	-	*	Co-elute PCB 143
PCB-131	5.17e+05	1.07	y	39:21	0.85	136		-	-	*	Co-elute PCB 133
PCB-133	5.17e+05	1.07	y	39:21	0.85	136		-	-	*	Co-elute PCB 131
PCB-142	3.59e+07	1.24	y	39:29	0.85	9460		-	-	*	
PCB-165	2.69e+06	1.15	y	39:42	1.12	537		-	-	*	Co-elute PCB 146
PCB-146	2.69e+06	1.15	y	39:42	1.12	537		-	-	*	Co-elute PCB 165
PCB-161	5.95e+06	1.24	y	39:57	1.04	1280		-	-	*	Co-elute PCB 132
PCB-132	5.95e+06	1.24	y	39:57	1.04	1280		-	-	*	Co-elute PCB 161
PCB-153	1.58e+07	1.27	y	40:05	1.16	3040		-	-	*	
PCB-168	*	*	n	NotFnd	1.25	*		1360	1260	4.94	
PCB-141	2.87e+06	1.28	y	40:47	0.94	685		-	-	*	
PCB-137	6.49e+05	1.32	y	41:10	0.86	169		-	-	*	
PCB-130	9.87e+05	1.26	y	41:15	0.90	246		-	-	*	
PCB-138	1.70e+07	1.26	y	41:36	1.13	3380		-	-	*	Co-elute PCB 163/164
PCB-163	1.70e+07	1.26	y	41:36	1.13	3380		-	-	*	Co-elute PCB 138/164
PCB-164	1.70e+07	1.26	y	41:36	1.13	3380		-	-	*	Co-elute PCB 138/163
PCB-158	2.15e+06	1.24	y	41:49	1.25	386		-	-	*	Co-elute PCB 160
PCB-160	2.15e+06	1.24	y	41:49	1.25	386		-	-	*	Co-elute PCB 158
PCB-129	6.96e+05	1.32	y	42:04	0.81	193		-	-	*	
PCB-166	9.87e+04	1.27	y	42:30	1.18	18.7	J	-	-	*	
PCB-159	1.62e+05	1.07	y	42:50	1.27	28.6		-	-	*	
PCB-128	2.29e+06	1.26	y	43:05	1.05	490		-	-	*	Co-elute PCB 162
PCB-162	2.29e+06	1.26	y	43:05	1.05	490		-	-	*	Co-elute PCB 128
PCB-167	5.17e+05	1.31	y	43:26	1.15	99.8		-	-	*	
13C-PCB-167	4.52e+07	1.28	y	43:25	1.14	8990					89.9
PCB-156	1.29e+06	1.23	y	44:40	1.21	249		-	-	*	
13C-PCB-156	4.30e+07	1.27	y	44:39	1.12	8690					86.9
PCB-157	2.37e+05	1.20	y	44:55	1.17	45.1		-	-	*	
13C-PCB-157	4.51e+07	1.29	y	44:53	1.15	8860					88.6
PCB-169	*	*	n	NotFnd	1.10	*		1360	1260	5.12	
13C-PCB-169	4.53e+07	1.30	y	46:45	1.07	9550					95.5

FAL ID: 12510-006-0001-SA Filename: 31JUL19Z Sam:10 Acquired: 31-JUL-19 21:11:07 ICal: DAILY209FAL4-7-31-19
Client ID: LDW-Y2-SU-ENR+AC-CC-S010 ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

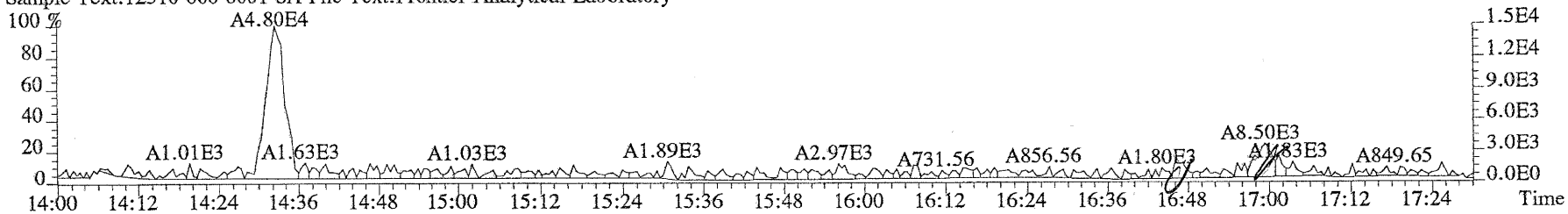
PCB-188	4.81e+04	1.15	y	39:44	1.05	10.0	J	-	-	*	
13C-PCB-188	4.58e+07	1.05	y	39:42	1.18	8810					88.1
PCB-184	2.17e+07	1.05	y	40:09	1.20	4230		-	-	*	
PCB-179	1.53e+06	1.09	y	40:53	1.13	318		-	-	*	
PCB-176	4.52e+05	1.09	y	41:19	1.10	96.6		-	-	*	
PCB-186	*	*	n	NotFnd	1.11	*		708	500	2.23	
PCB-178	3.83e+05	1.10	y	42:22	0.76	119		-	-	*	
PCB-175	8.88e+04	1.12	y	42:42	0.77	27.2		-	-	*	
PCB-187	2.40e+06	1.06	y	42:50	0.87	645		-	-	*	Co-elute PCB 182
PCB-182	2.40e+06	1.06	y	42:50	0.87	645		-	-	*	Co-elute PCB 187
PCB-183	1.14e+06	1.05	y	43:10	0.86	312		-	-	*	
PCB-185	2.11e+05	0.93	y	43:46	0.77	63.9		-	-	*	
PCB-174	1.82e+06	1.04	y	44:07	0.79	541		-	-	*	
PCB-181	*	*	n	NotFnd	0.78	*		708	500	3.16	
PCB-177	1.01e+06	1.10	y	44:24	0.70	339		-	-	*	
PCB-171	4.37e+05	1.06	y	44:40	0.77	133		-	-	*	
PCB-173	4.40e+04	1.18	y	45:05	0.68	15.1	J	-	-	*	
PCB-172	5.31e+05	1.04	y	45:26	0.72	174		-	-	*	
PCB-192	1.30e+07	1.04	y	45:38	0.97	3160		-	-	*	
PCB-180	3.04e+06	1.05	y	45:48	0.75	956		-	-	*	
PCB-193	2.41e+05	1.05	y	45:58	1.05	53.8		-	-	*	
PCB-191	8.93e+04	1.19	y	46:11	0.99	21.1		-	-	*	
PCB-170	1.14e+06	0.99	y	47:05	0.71	375		-	-	*	
PCB-190	3.37e+05	1.01	y	47:15	0.96	82.4		-	-	*	
PCB-189	5.54e+04	1.08	y	48:26	1.00	14.1	J	-	-	*	
13C-PCB-189	3.94e+07	1.06	y	48:26	1.01	8860					88.6
PCB-202	1.58e+05	0.92	y	44:50	1.02	44.1		-	-	*	
PCB-201	9.64e+04	0.92	y	45:16	1.10	24.7		-	-	*	
PCB-204	3.25e+07	0.88	y	45:25	1.11	8290		-	-	*	
PCB-197	2.16e+05	0.97	y	45:41	1.15	53.3		-	-	*	
PCB-200	8.85e+04	0.95	y	46:26	1.11	22.6		-	-	*	
PCB-198	2.36e+04	0.85	y	47:36	0.78	8.62	J	-	-	*	
PCB-199	4.28e+05	0.83	y	47:41	0.74	163		-	-	*	
PCB-203	5.29e+05	0.94	y	47:56	0.83	180		-	-	*	Co-elute PCB 196
PCB-196	5.29e+05	0.94	y	47:56	0.83	180		-	-	*	Co-elute PCB 203
13C-PCB-202	3.53e+07	0.92	y	44:48	0.95	8450					84.5
13C-PCB-178	2.94e+07	1.09	y	42:20	0.80	8350					83.5
13C-PCB-138	4.41e+07	1.28	y	41:34	-	59.4					
PCB-195	1.69e+05	0.88	y	49:03	0.78	50.8		-	-	*	
PCB-194	4.09e+05	0.84	y	49:51	0.86	112		-	-	*	
PCB-205	3.57e+04	0.77	y	50:06	1.09	7.70	J	-	-	*	
13C-PCB-205	4.26e+07	0.91	y	50:05	1.29	9080					90.8
PCB-208	4.95e+04	1.36	y	49:10	1.05	11.9	J	-	-	*	
13C-PCB-208	3.95e+07	0.82	y	49:10	1.15	9400					94.0
PCB-207	1.63e+05	1.53	y	49:28	1.23	38.6		-	-	*	
PCB-206	9.95e+04	1.40	y	51:18	1.08	31.8		-	-	*	
13C-PCB-206	2.89e+07	0.80	y	51:17	0.88	9030					90.3
PCB-209	1.86e+05	1.31	y	52:29	1.13	46.4		-	-	*	
13C-PCB-209	3.55e+07	1.19	y	52:29	1.08	9020					90.2
13C-PCB-194	3.64e+07	0.91	y	49:49	-	50.7					

Analyst: _____ Date: 8/1/19

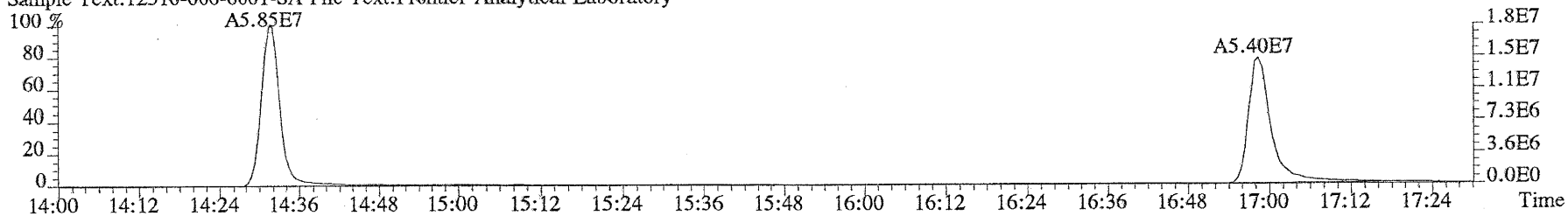
File:31JUL19Z #1-783 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



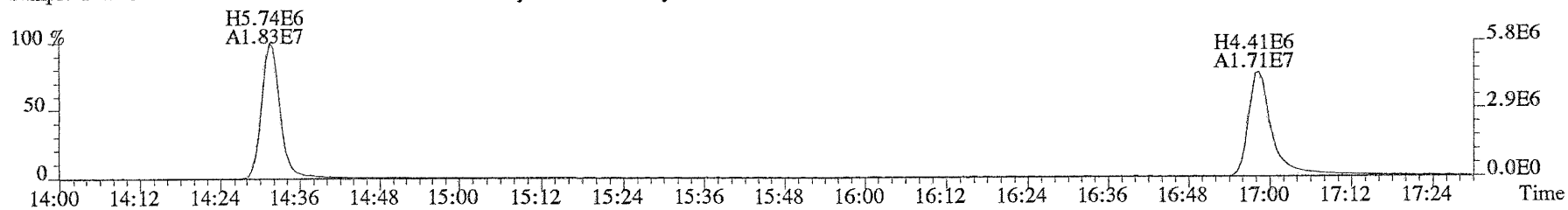
File:31JUL19Z #1-783 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



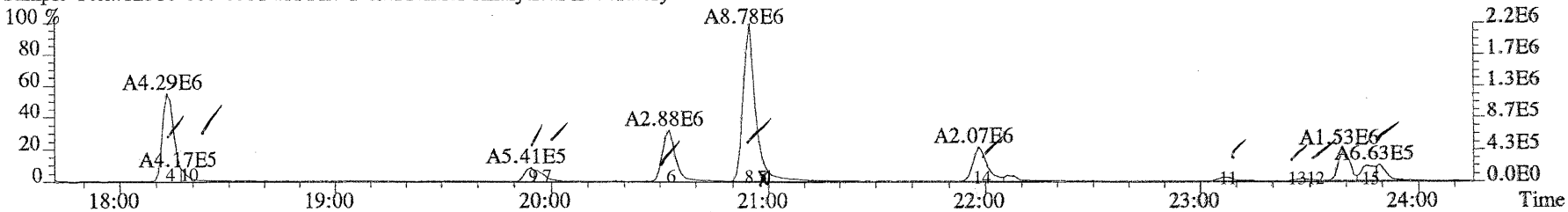
File:31JUL19Z #1-783 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



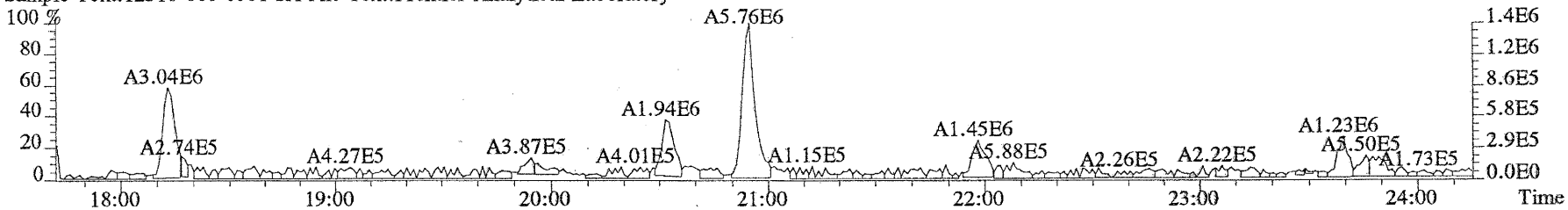
File:31JUL19Z #1-783 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



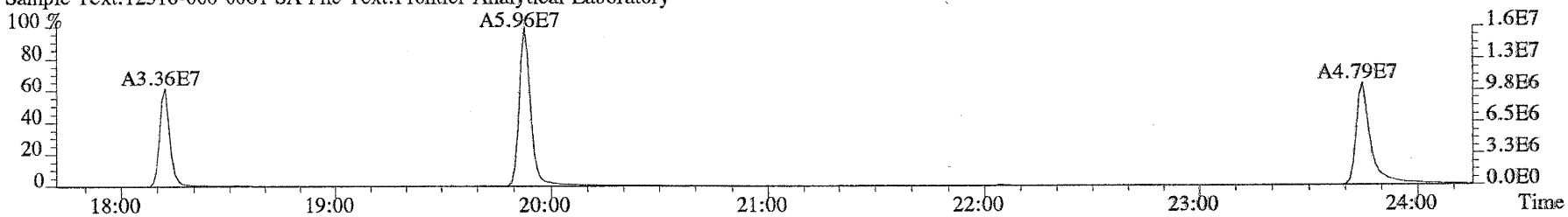
File:31JUL19Z #1-520 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



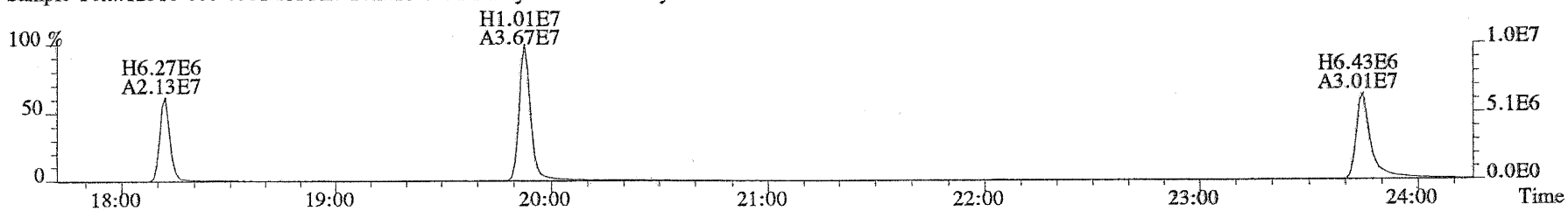
File:31JUL19Z #1-520 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



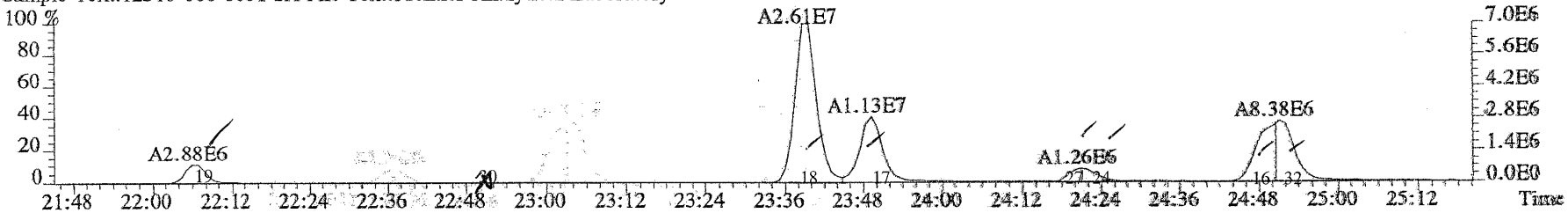
File:31JUL19Z #1-520 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



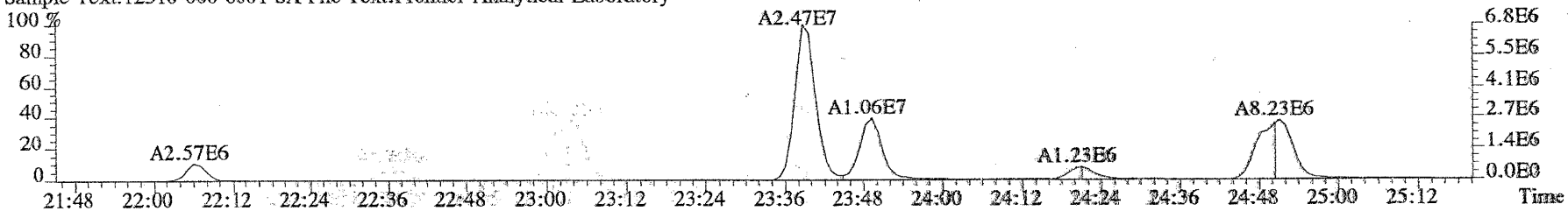
File:31JUL19Z #1-520 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



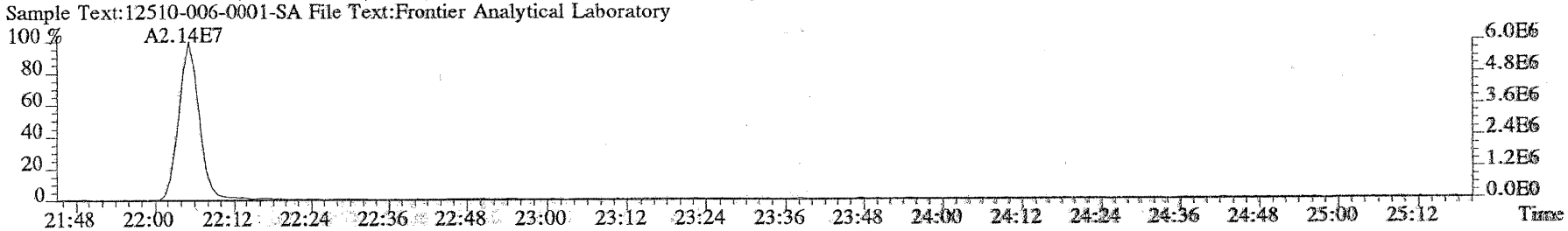
File:31JUL19Z #1-520 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



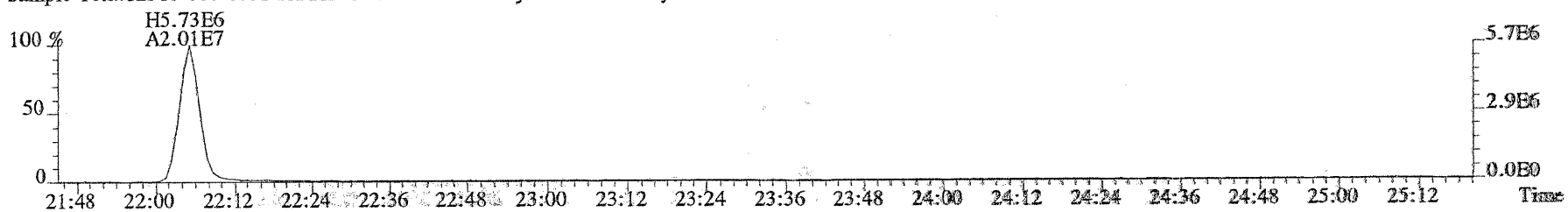
File:31JUL19Z #1-520 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



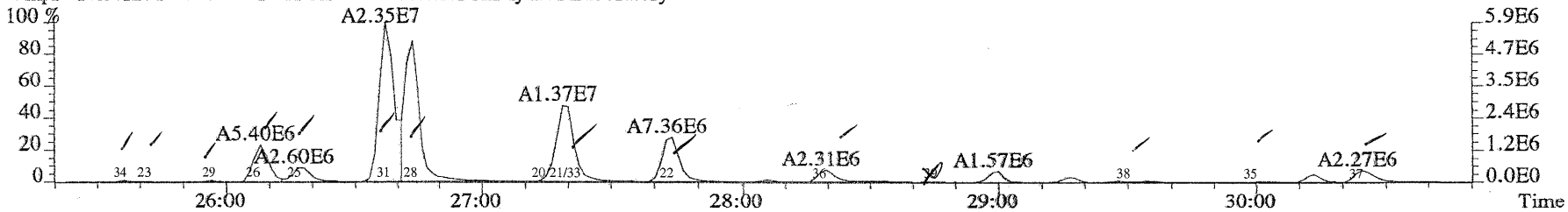
File:31JUL19Z #1-520 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



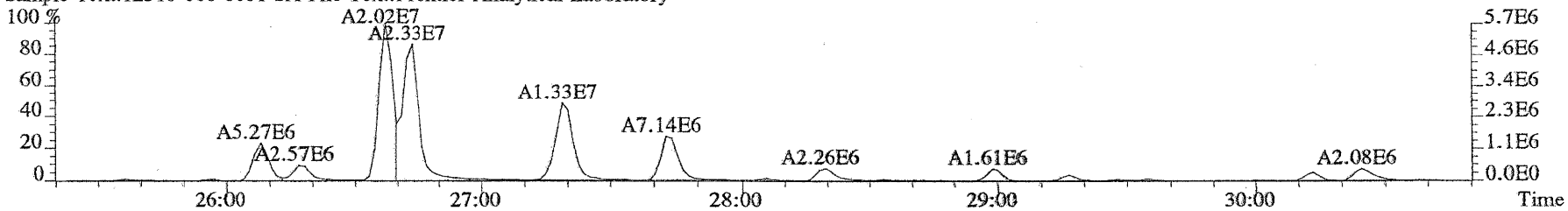
File:31JUL19Z #1-520 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



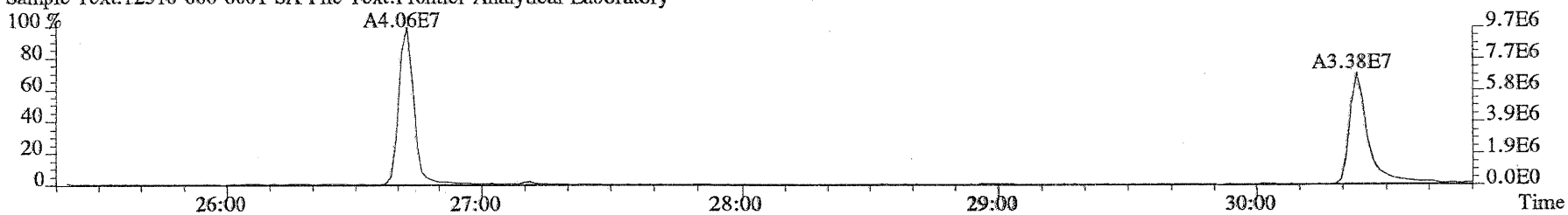
File:31JUL19Z #1-401 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



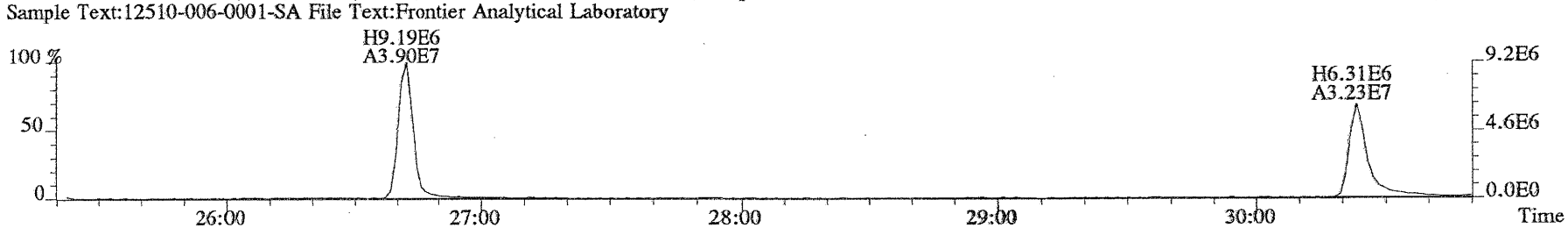
File:31JUL19Z #1-401 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



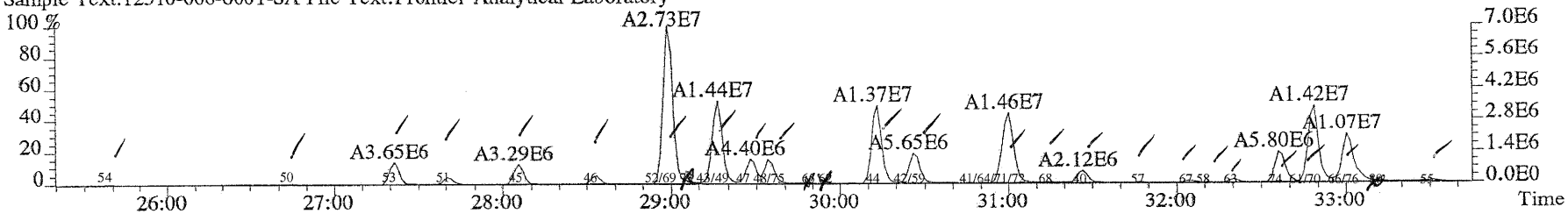
File:31JUL19Z #1-401 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



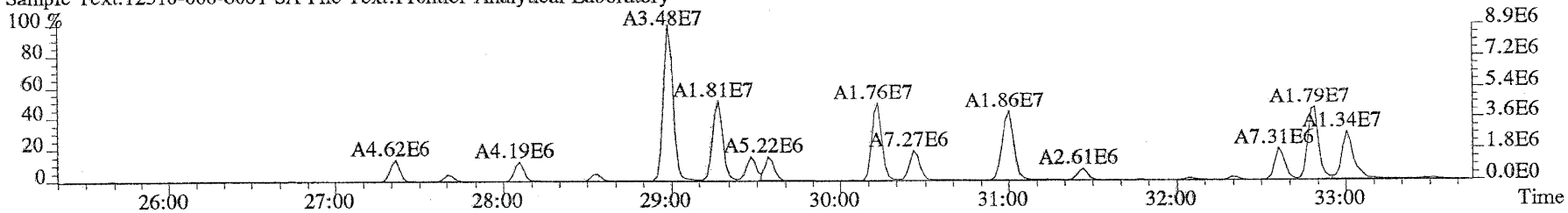
File:31JUL19Z #1-401 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



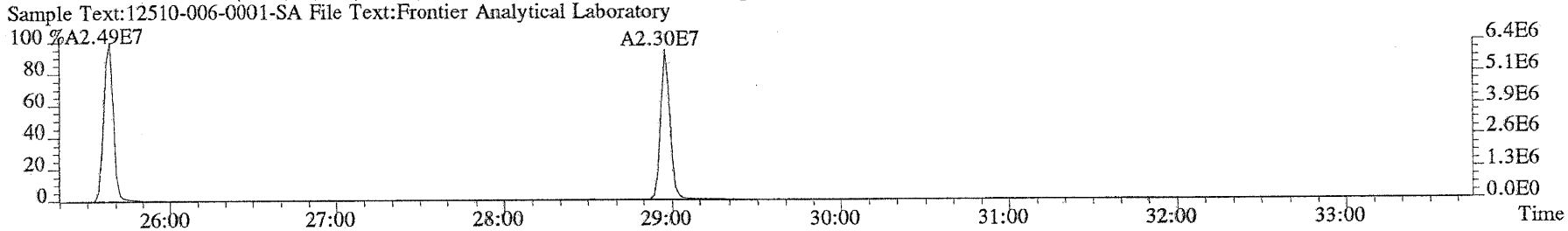
File:31JUL19Z #1-401 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



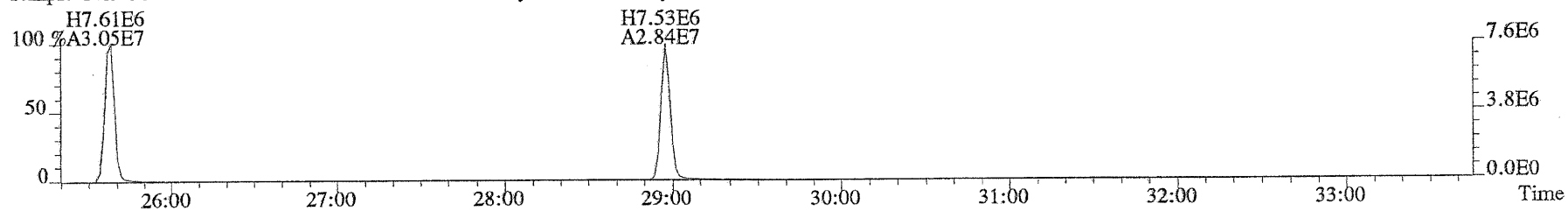
File:31JUL19Z #1-401 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



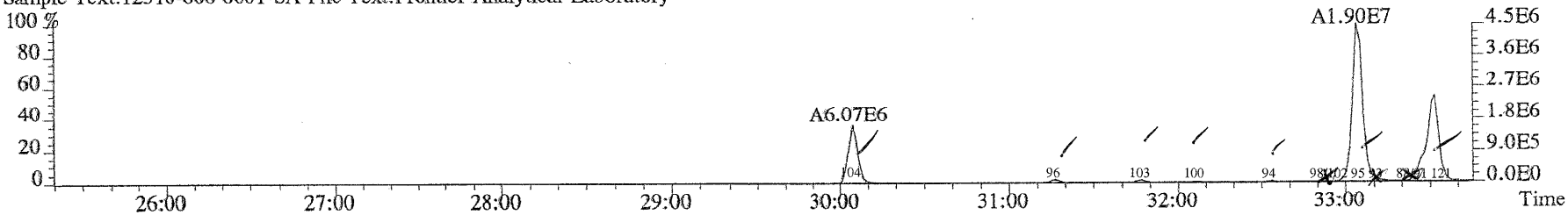
File:31JUL19Z #1-401 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



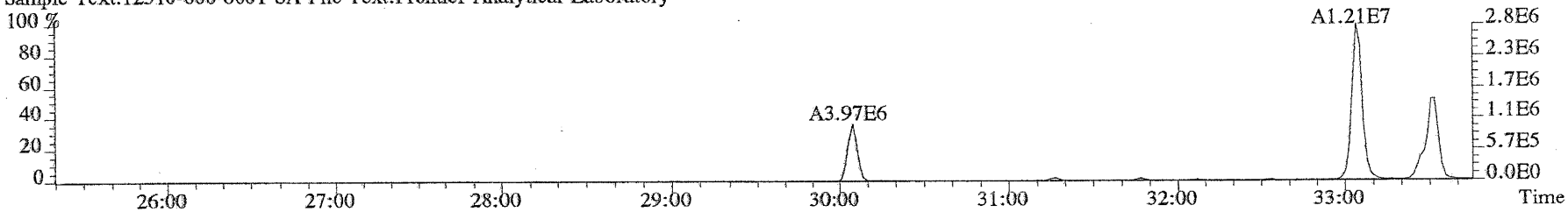
File:31JUL19Z #1-401 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



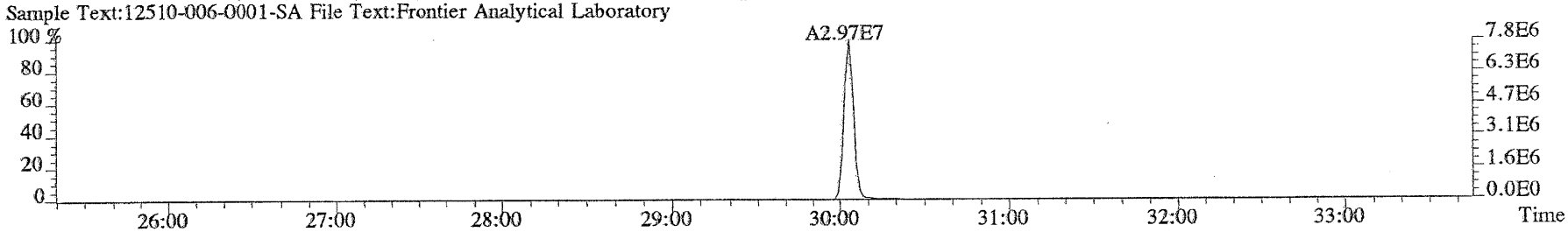
File:31JUL19Z #1-401 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



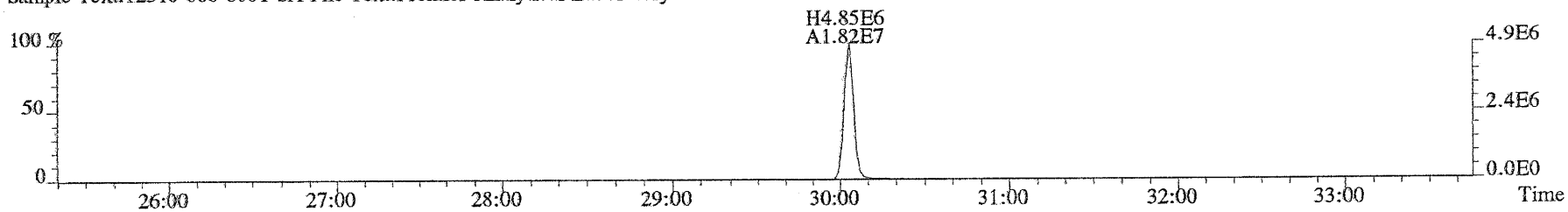
File:31JUL19Z #1-401 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



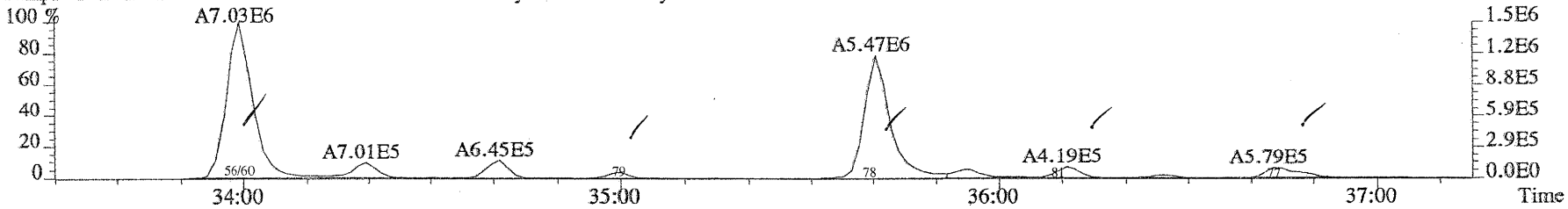
File:31JUL19Z #1-401 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



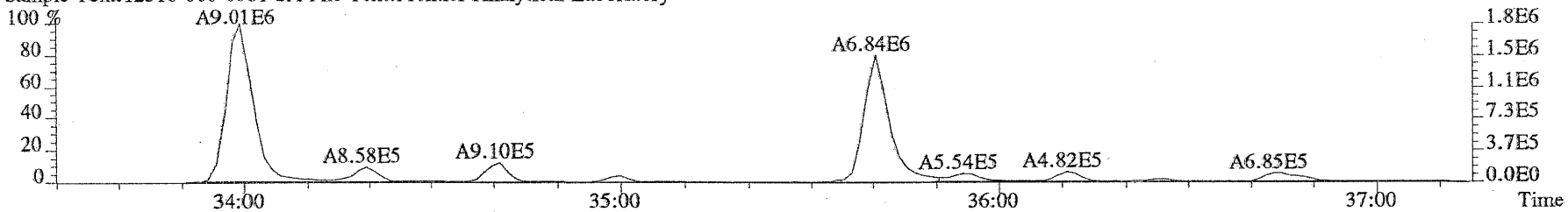
File:31JUL19Z #1-401 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



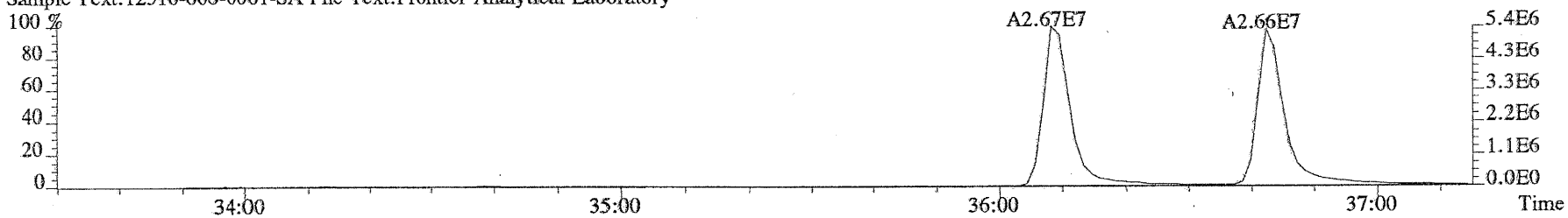
File:31JUL19Z #1-181 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



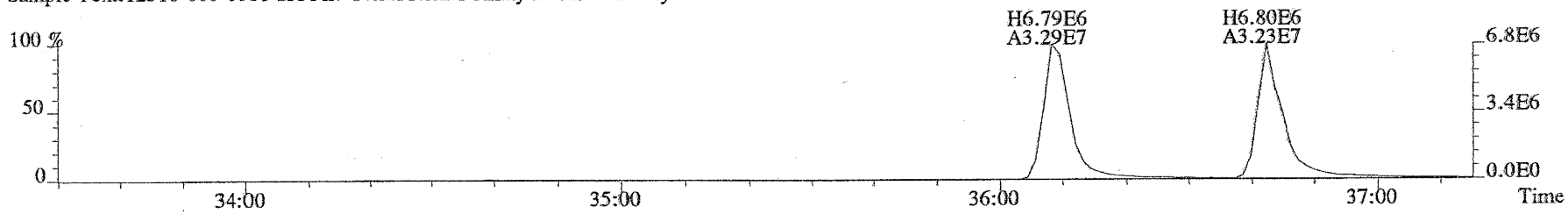
File:31JUL19Z #1-181 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



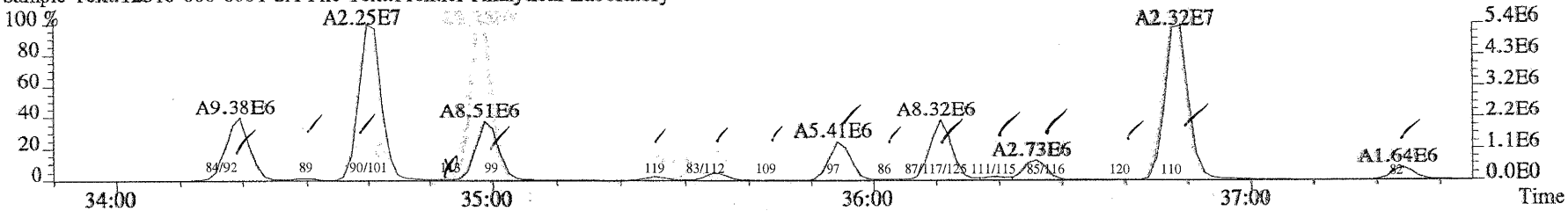
File:31JUL19Z #1-181 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



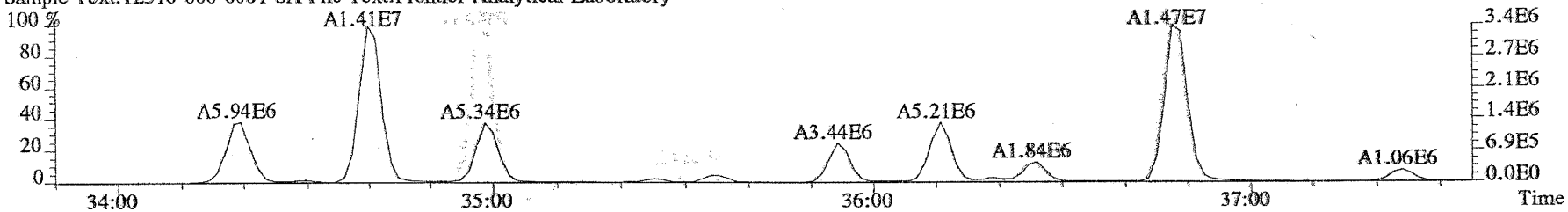
File:31JUL19Z #1-181 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



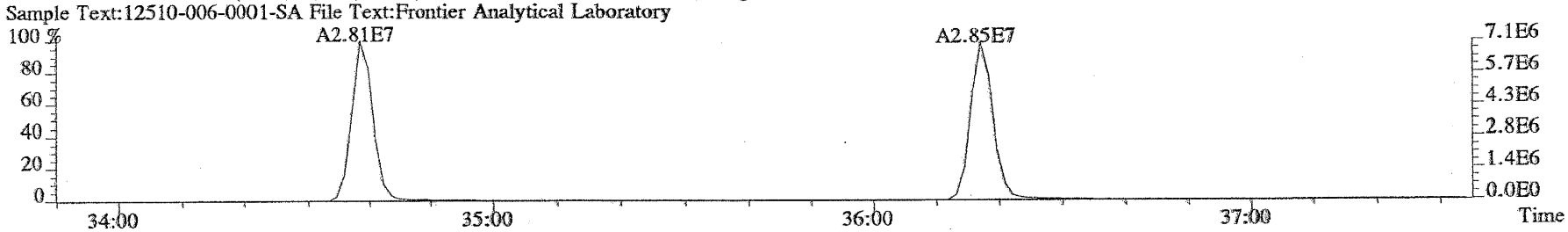
File:31JUL19Z #1-181 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



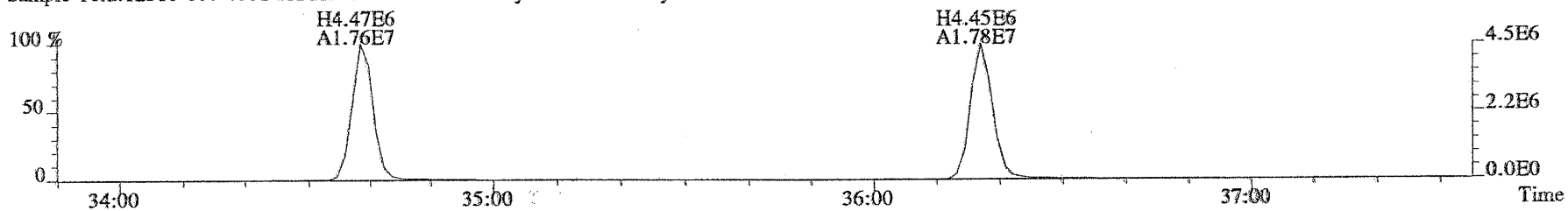
File:31JUL19Z #1-181 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



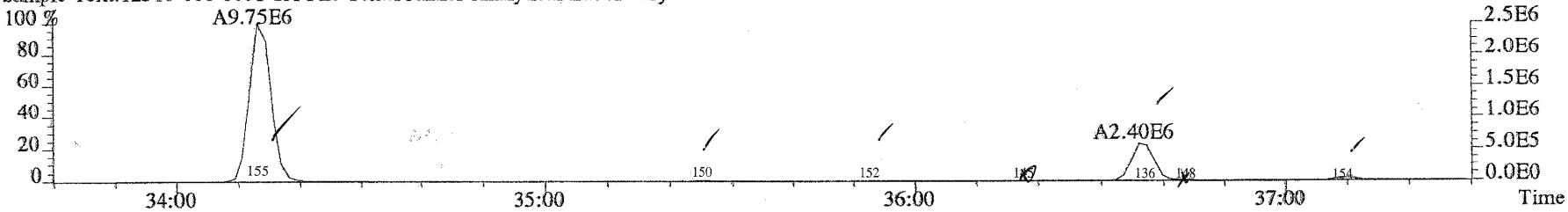
File:31JUL19Z #1-181 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



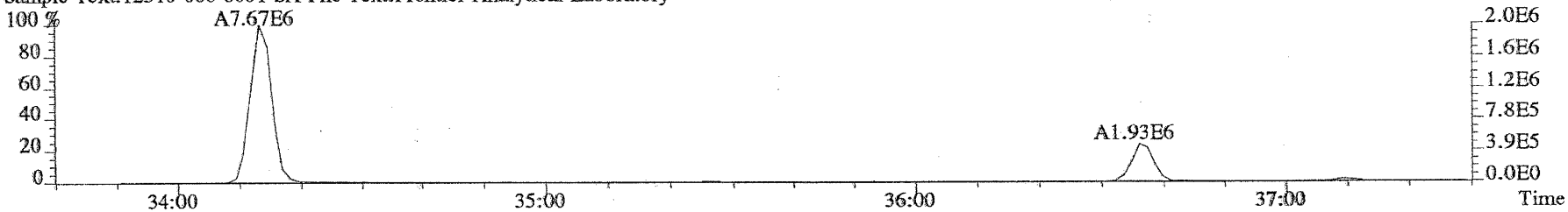
File:31JUL19Z #1-181 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



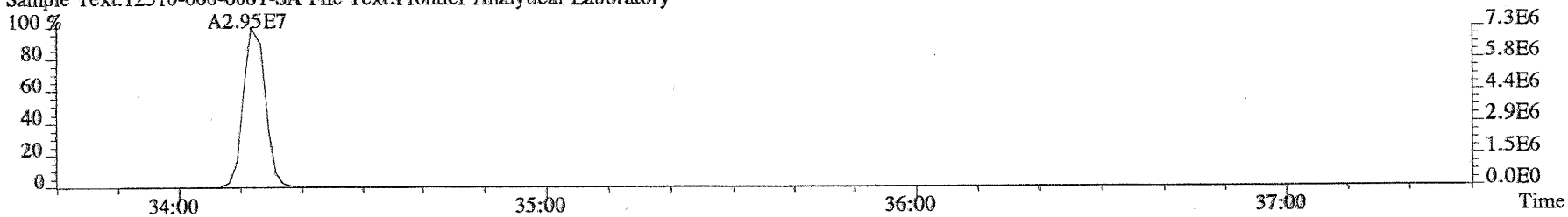
File:31JUL19Z #1-181 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



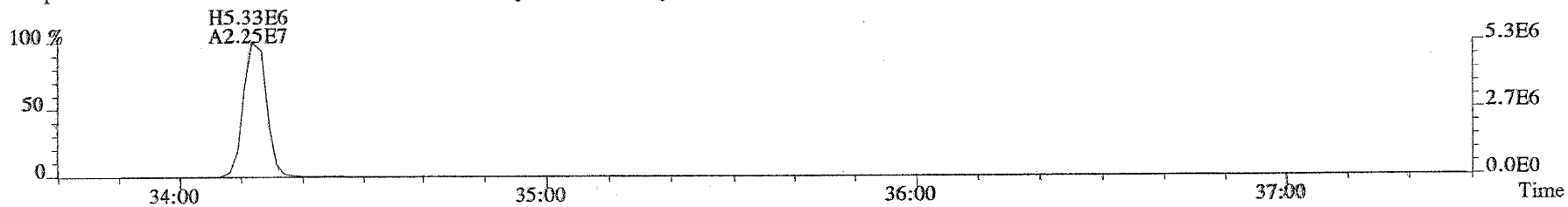
File:31JUL19Z #1-181 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



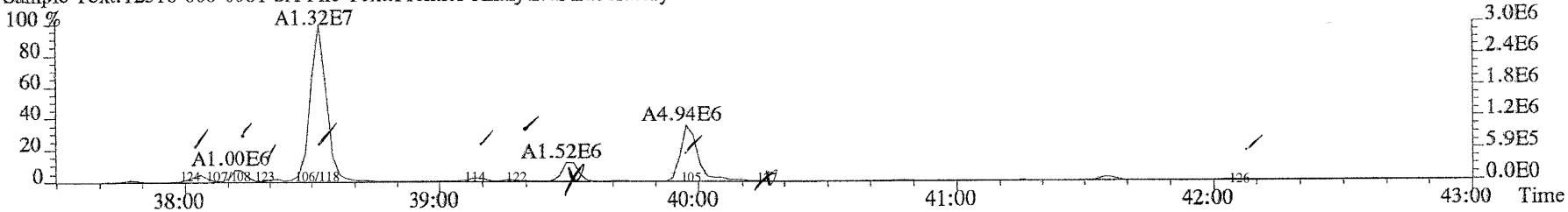
File:31JUL19Z #1-181 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



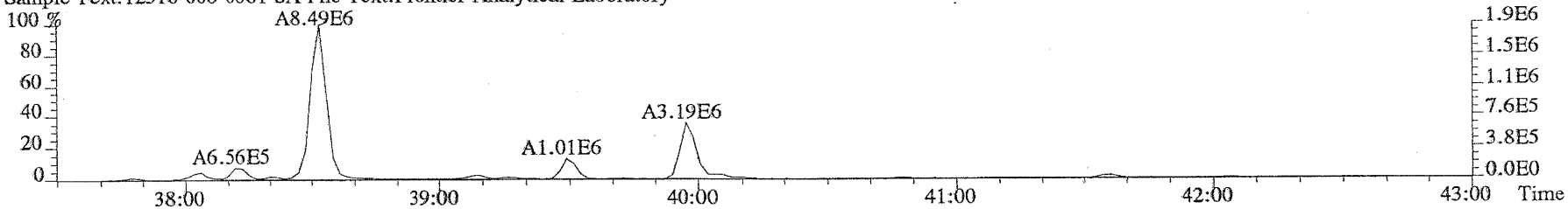
File:31JUL19Z #1-181 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



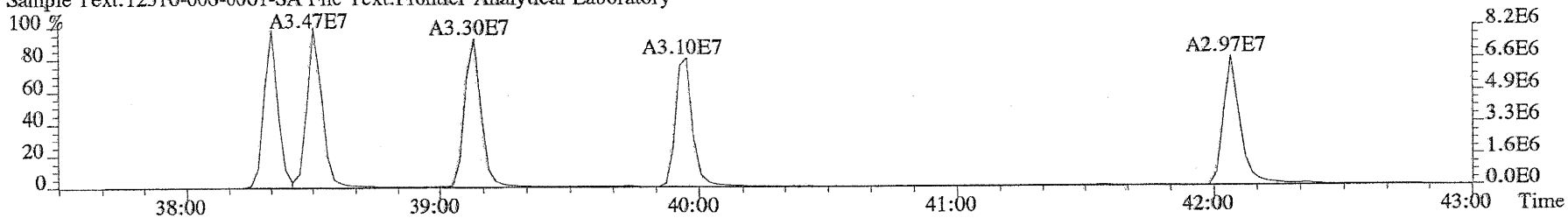
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



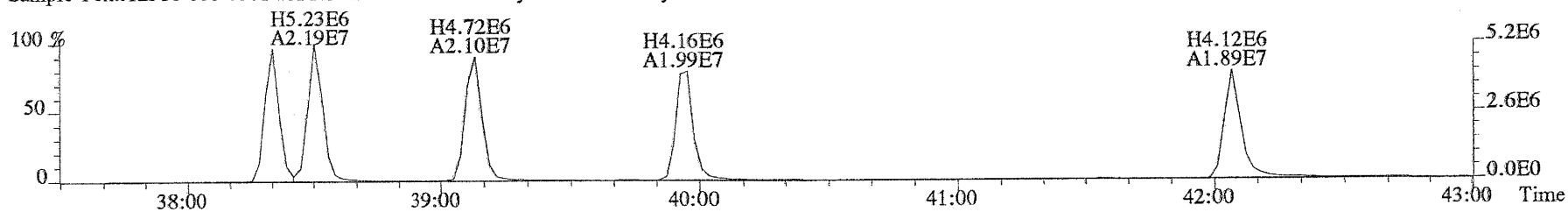
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



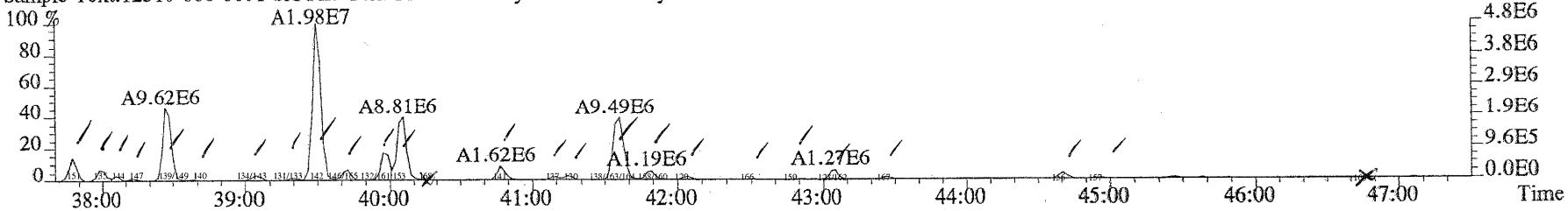
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



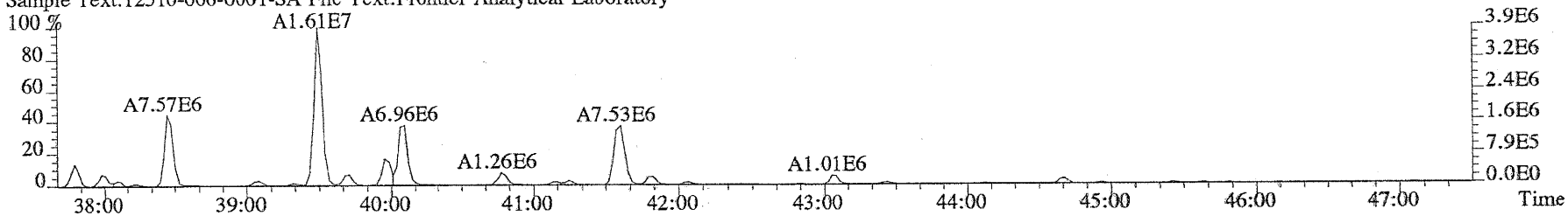
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



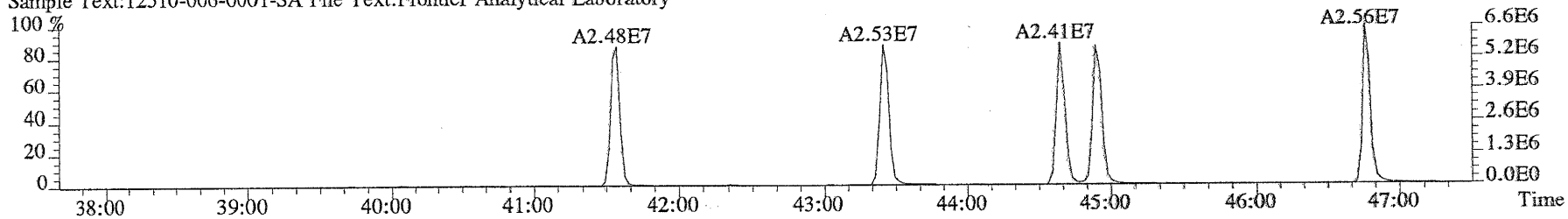
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



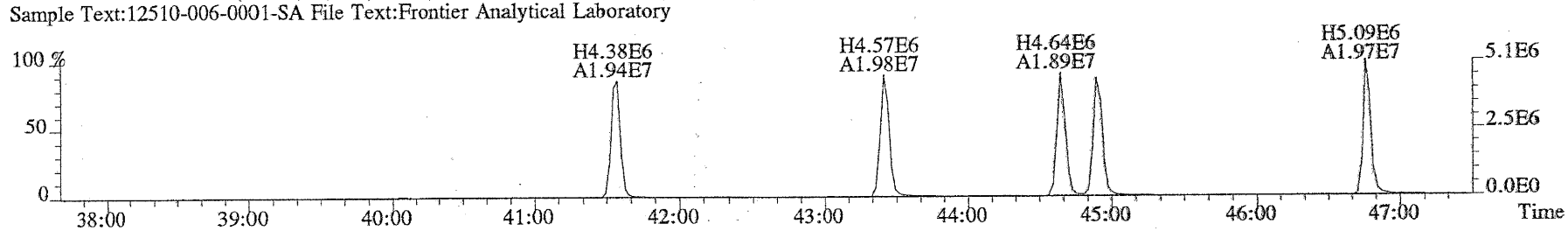
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



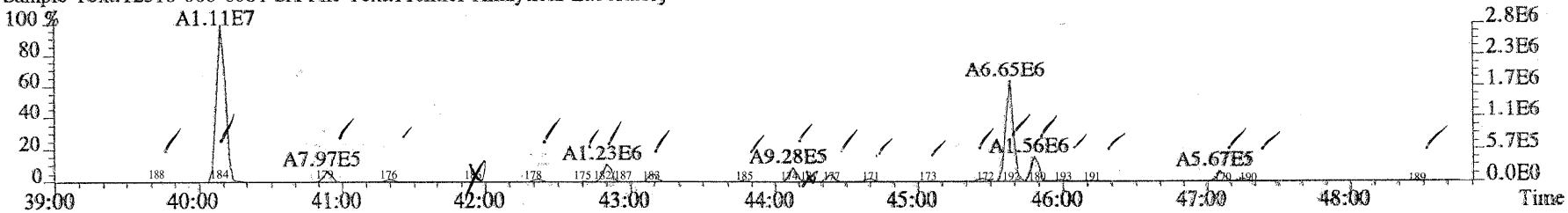
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



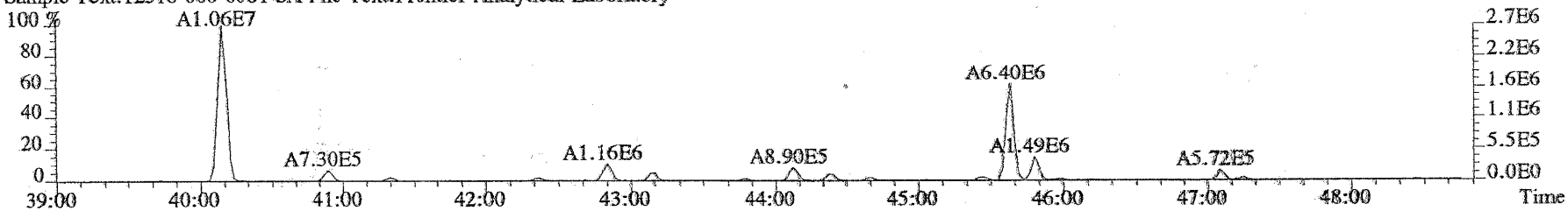
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



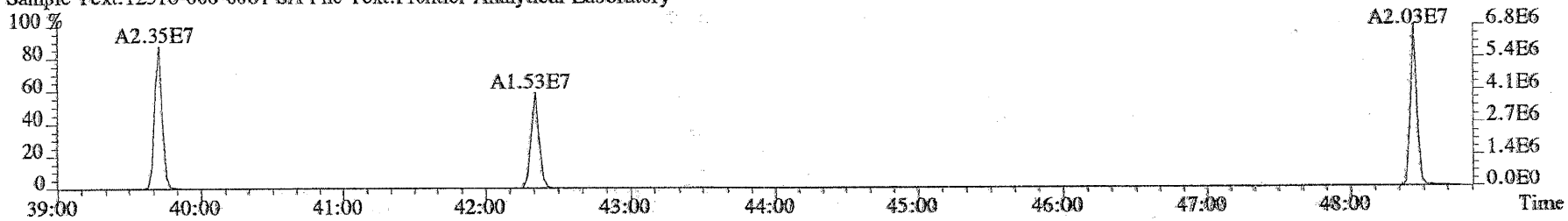
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



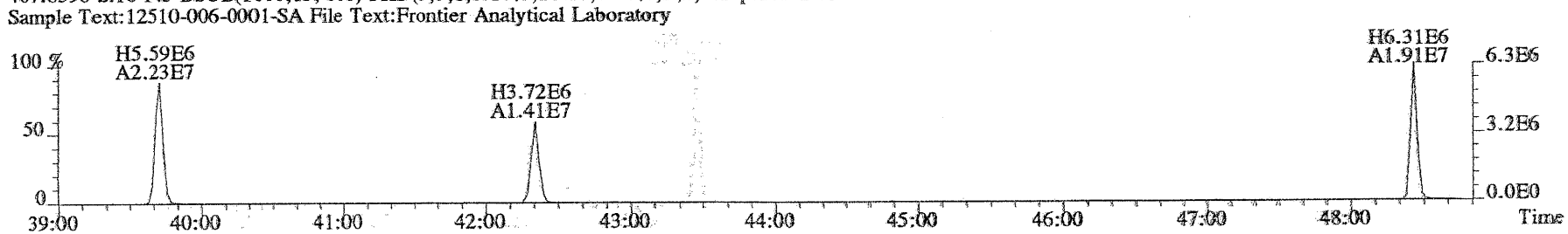
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



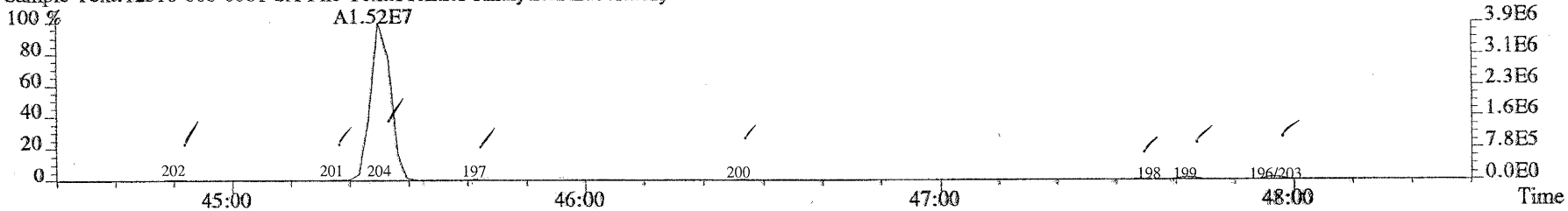
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



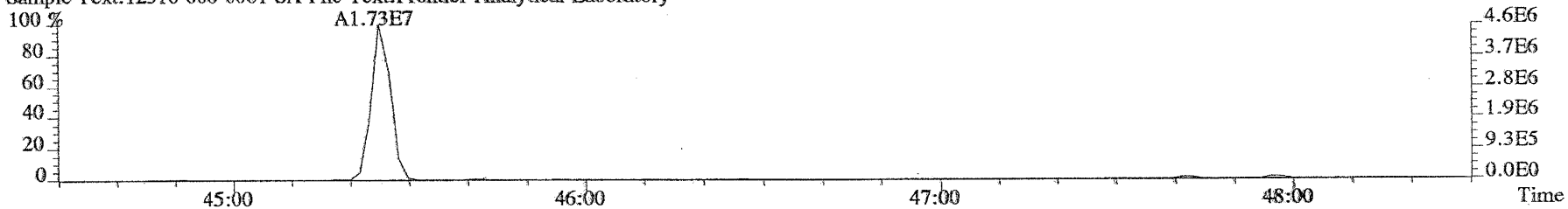
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



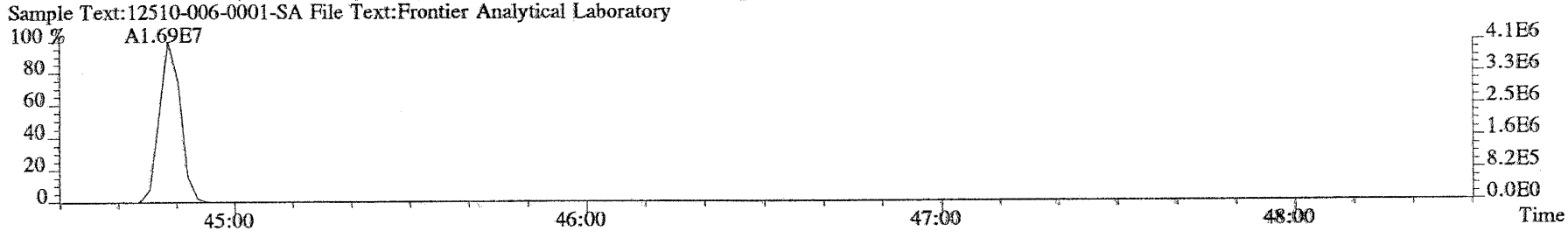
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



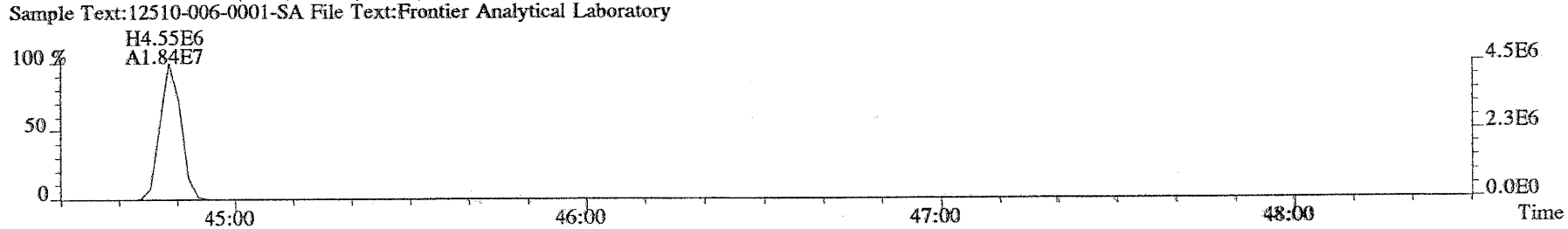
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



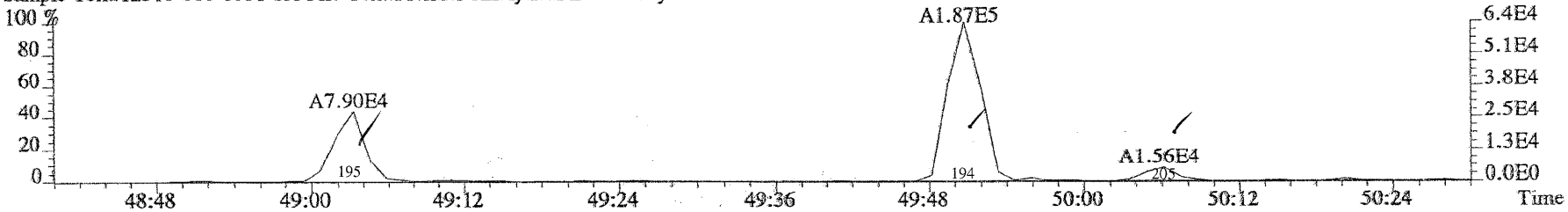
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



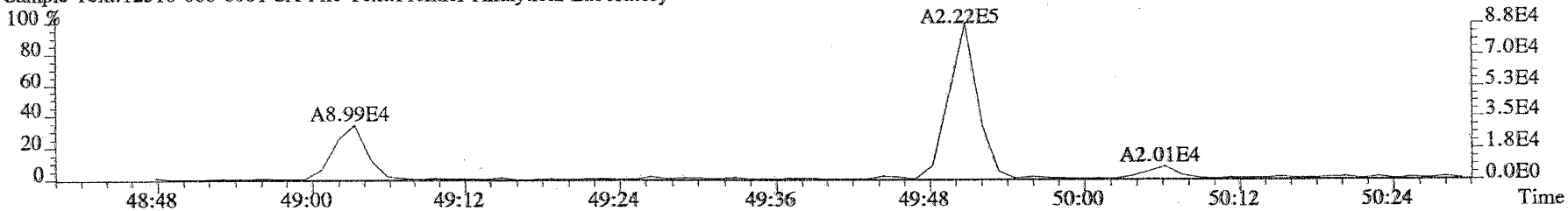
File:31JUL19Z #1-405 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



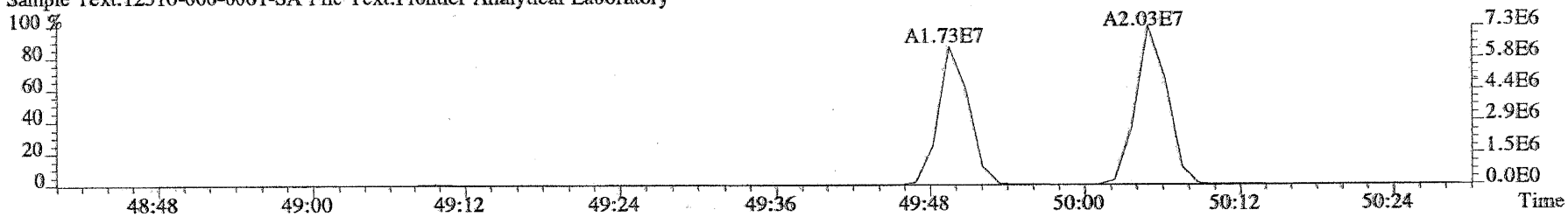
File:31JUL19Z #1-315 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



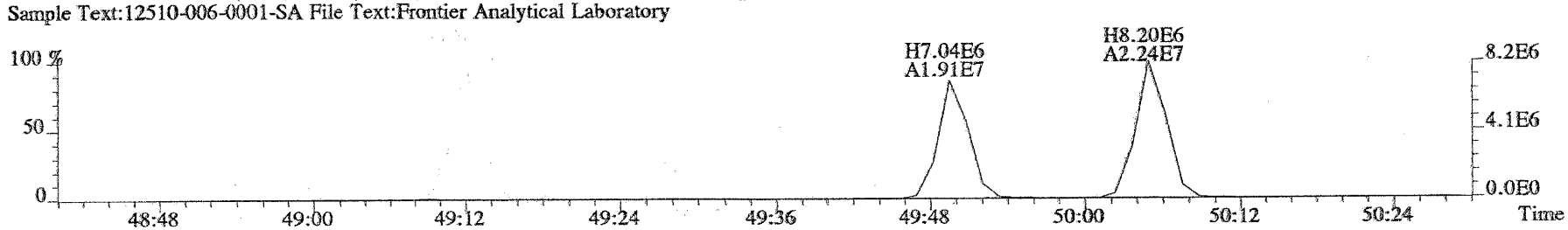
File:31JUL19Z #1-315 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



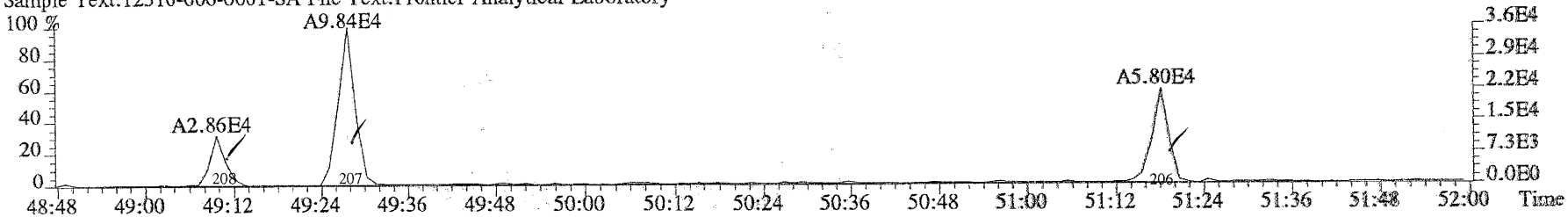
File:31JUL19Z #1-315 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



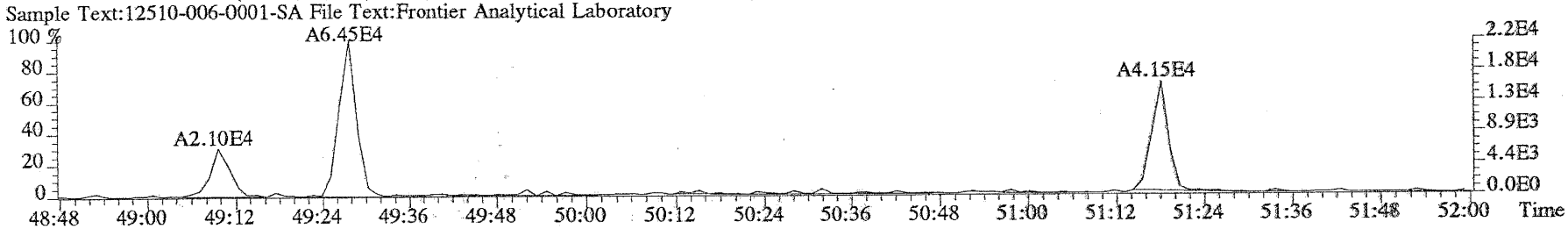
File:31JUL19Z #1-315 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



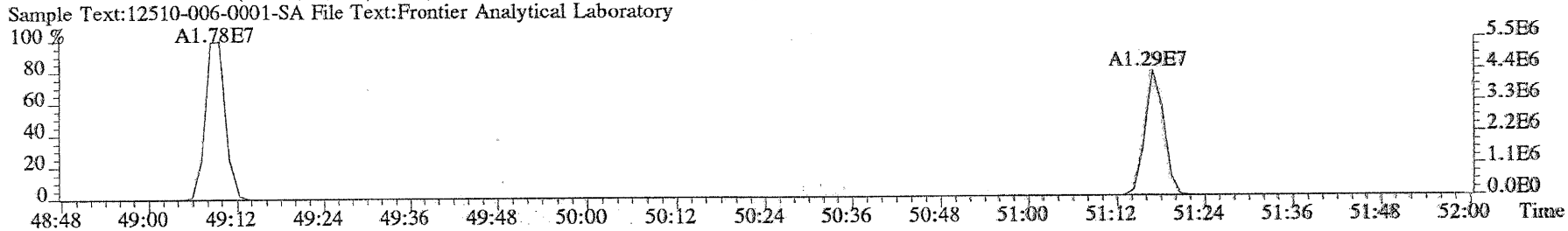
File:31JUL19Z #1-315 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



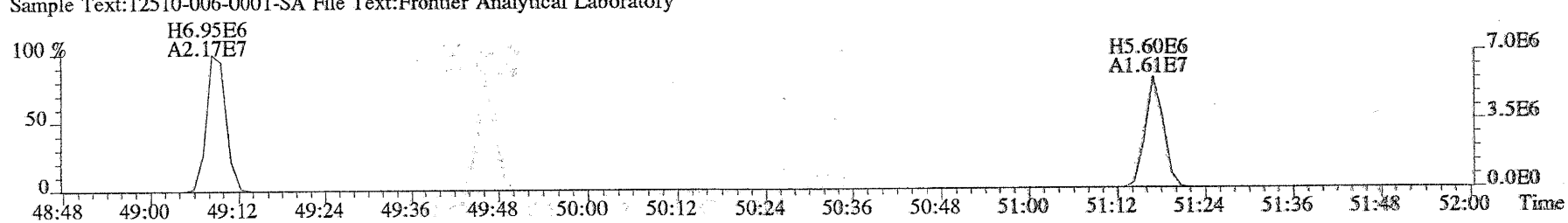
File:31JUL19Z #1-315 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



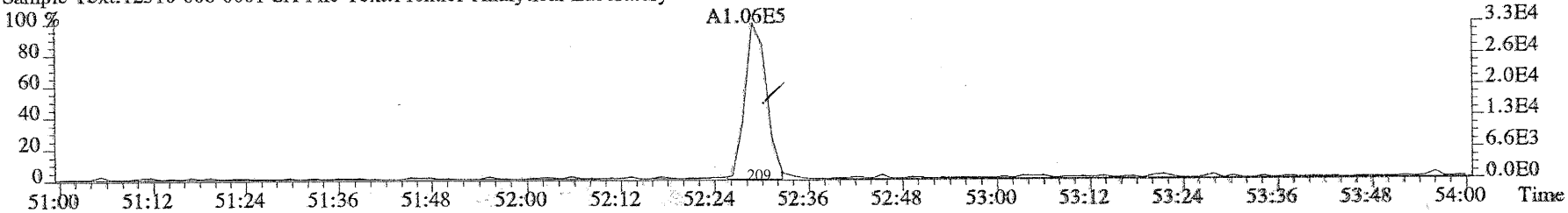
File:31JUL19Z #1-315 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



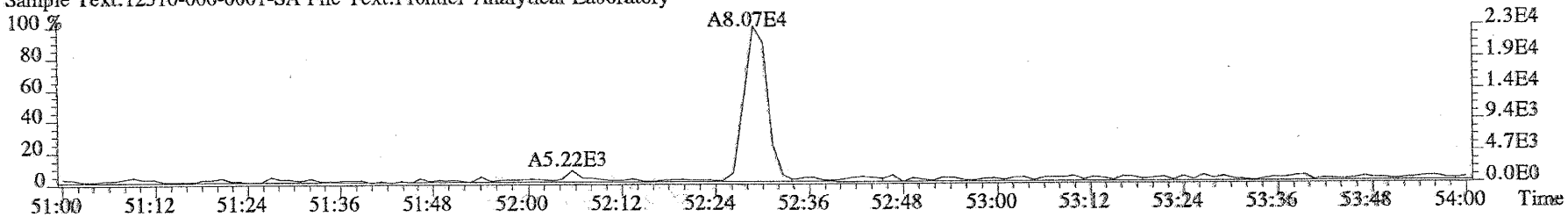
File:31JUL19Z #1-315 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



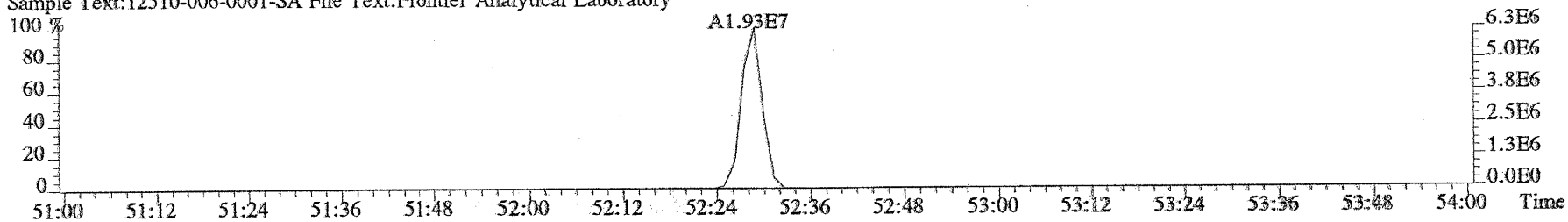
File:31JUL19Z #1-315 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



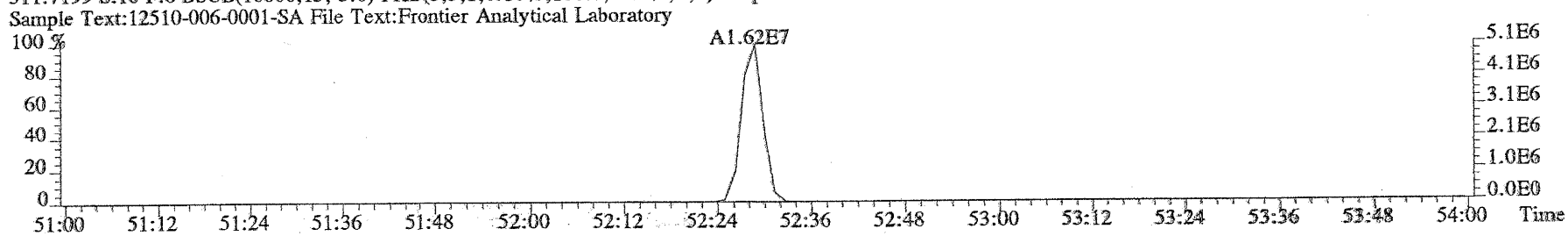
File:31JUL19Z #1-315 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:10 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-006-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
509.7229 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:12510-006-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 21:11:07 GC EI+ Voltage SIR Autospec-Ultima
511.7199 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:12510-006-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12510-009-0001-SA Filename: 31JUL19Z Sam:13 Acquired: 1-AUG-19 00:06:11 ICal: DAILY209FAL4-7-31-19
Client ID: LDW-Y2-SU-ENR-CA-S010 ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	2.10e+05	2.84 y	14:33	1.20	16.9	J	-	-	*	
13C-PCB-1	1.03e+08	3.18 y	14:32	0.94	9470					94.7
PCB-2	*	* n	NotFnd	1.19	*		1270	1140	1.56	
PCB-3	6.49e+04	2.67 y	16:59	1.22	5.15	J	-	-	*	
13C-PCB-3	1.03e+08	3.25 y	16:58	0.88	10100					101
PCB-4	4.12e+06	1.48 y	18:14	1.16	483		-	-	*	
PCB-10	4.13e+05	1.42 y	18:17	1.41	32.1		-	-	*	
13C-PCB-4	7.38e+07	1.55 y	18:12	0.67	9440					94.4
PCB-9	9.30e+05	1.50 y	19:54	1.44	70.8		-	-	*	
PCB-7	5.82e+05	1.43 y	19:56	1.43	44.8		-	-	*	
PCB-6	3.71e+06	1.35 y	20:32	1.49	273		-	-	*	
PCB-8	1.56e+07	1.47 y	20:54	1.36	1260		-	-	*	
PCB-5	*	* n	NotFnd	1.45	*		936	6620	5.45	
PCB-14	8.07e+06	1.44 y	21:58	1.36	651		-	-	*	
PCB-11	1.15e+06	1.43 y	23:07	1.24	102		-	-	*	
PCB-13	2.40e+05	1.44 y	23:27	1.24	21.2		-	-	*	
PCB-12	3.17e+05	1.58 y	23:28	1.28	27.2		-	-	*	
PCB-15	4.22e+06	1.46 y	23:46	1.16	337		-	-	*	
13C-PCB-15	1.08e+08	1.58 y	23:45	0.91	10200					102
PCB-19	3.92e+06	1.07 y	22:07	1.16	571		-	-	*	
PCB-30	*	* n	NotFnd	1.70	*		1500	1440	2.61	
PCB-18	3.21e+07	1.06 y	23:39	1.12	4830		-	-	*	
PCB-17	1.43e+07	1.04 y	23:49	1.27	1920		-	-	*	
PCB-27	1.73e+06	1.00 y	24:20	1.62	181		-	-	*	
PCB-24	2.40e+06	1.09 y	24:21	1.68	242		-	-	*	
PCB-16	1.05e+07	1.06 y	24:50	1.38	1290		-	-	*	
PCB-32	1.30e+07	1.06 y	24:52	1.46	1510		-	-	*	
13C-PCB-19	5.91e+07	1.06 y	22:05	0.49	10300					103
13C-PCB-9	1.16e+08	1.57 y	19:53	-	68.8					
PCB-34	2.38e+05	1.00 y	25:37	1.23	21.2		-	-	*	
PCB-23	7.96e+04	1.06 y	25:42	1.39	6.28	J	-	-	*	
PCB-29	3.30e+05	1.09 y	25:56	1.33	27.2		-	-	*	
PCB-26	7.66e+06	1.03 y	26:09	1.26	668		-	-	*	
PCB-25	4.16e+06	1.05 y	26:17	1.26	363		-	-	*	
PCB-31	3.46e+07	1.03 y	26:38	1.19	3200		-	-	*	
PCB-28	4.00e+07	1.05 y	26:43	1.60	2750		-	-	*	
PCB-20	2.25e+07	1.04 y	27:19	1.25	1980		-	-	*	Co-elute PCB 21/33
PCB-21	2.25e+07	1.04 y	27:19	1.25	1980		-	-	*	Co-elute PCB 20/33
PCB-33	2.25e+07	1.04 y	27:19	1.25	1980		-	-	*	Co-elute PCB 20/21
PCB-22	1.23e+07	1.03 y	27:43	1.40	964		-	-	*	
PCB-36	8.54e+06	1.03 y	28:19	1.24	755		-	-	*	
PCB-39	*	* n	NotFnd	1.25	*		1110	910	2.21	
PCB-38	2.37e+05	0.96 y	29:28	1.27	20.5		-	-	*	
PCB-35	3.24e+05	1.11 y	30:00	1.14	31.1		-	-	*	
PCB-37	5.55e+06	1.02 y	30:24	1.21	504		-	-	*	
13C-PCB-37	9.12e+07	1.08 y	30:23	1.51	8900					89.0

PCB-54	1.60e+05	0.79	y	25:38	1.24	16.9	J	-	-	*	
PCB-50	1.75e+05	0.76	y	26:45	0.93	24.7		-	-	*	
PCB-53	5.26e+06	0.79	y	27:21	0.90	767		-	-	*	
PCB-51	1.69e+06	0.81	y	27:41	0.96	231		-	-	*	
PCB-45	5.00e+06	0.78	y	28:06	0.79	835		-	-	*	
PCB-46	1.98e+06	0.75	y	28:33	0.74	350		-	-	*	
PCB-52	3.20e+07	0.78	y	28:59	0.92	4550		-	-	*	Co-elute PCB 69
PCB-69	3.20e+07	0.78	y	28:59	0.92	4550		-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.13	*		1580	3680	5.59	
PCB-43	2.04e+07	0.79	y	29:17	0.82	3280		-	-	*	Co-elute PCB 49
PCB-49	2.04e+07	0.79	y	29:17	0.82	3280		-	-	*	Co-elute PCB 43
PCB-47	7.16e+06	0.79	y	29:28	0.81	1160		-	-	*	
PCB-48	6.50e+06	0.80	y	29:36	1.07	797		-	-	*	Co-elute PCB 75
PCB-75	6.50e+06	0.80	y	29:36	1.07	797		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*		1580	3680	6.05	
PCB-62	*	*	n	NotFnd	1.06	*		1580	3680	5.99	
PCB-44	1.87e+07	0.78	y	30:14	0.69	3550		-	-	*	
PCB-42	9.20e+06	0.78	y	30:27	0.90	1340		-	-	*	Co-elute PCB 59
PCB-59	9.20e+06	0.78	y	30:27	0.90	1340		-	-	*	Co-elute PCB 42
PCB-72	2.28e+07	0.78	y	30:59	1.02	2940		-	-	*	Co-elute PCB 41/71/64
PCB-41	2.28e+07	0.78	y	30:59	1.02	2940		-	-	*	Co-elute PCB 72/71/64
PCB-71	2.28e+07	0.78	y	30:59	1.02	2940		-	-	*	Co-elute PCB 72/41/64
PCB-64	2.28e+07	0.78	y	30:59	1.02	2940		-	-	*	Co-elute PCB 72/41/71
PCB-68	3.63e+05	0.66	y	31:13	1.17	40.8		-	-	*	
PCB-40	3.24e+06	0.82	y	31:26	0.65	651		-	-	*	
PCB-57	2.16e+05	0.86	y	31:46	1.07	26.4		-	-	*	
PCB-67	9.16e+05	0.83	y	32:05	1.03	117		-	-	*	
PCB-58	1.17e+05	0.83	y	32:10	1.14	13.4	J	-	-	*	
PCB-63	1.06e+06	0.82	y	32:20	1.07	130		-	-	*	
PCB-74	1.12e+07	0.79	y	32:37	1.06	1400		-	-	*	
PCB-61	2.31e+07	0.79	y	32:48	1.00	3040		-	-	*	Co-elute PCB 70
PCB-70	2.31e+07	0.79	y	32:48	1.00	3040		-	-	*	Co-elute PCB 61
PCB-76	2.05e+07	0.80	y	33:01	1.11	2420		-	-	*	Co-elute PCB 66
PCB-66	2.05e+07	0.80	y	33:01	1.11	2420		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.29	*		1580	3680	4.89	
PCB-55	9.63e+05	0.79	y	33:31	1.13	112		-	-	*	
13C-PCB-54	7.60e+07	0.82	y	25:37	1.34	8360					83.6
PCB-104	1.52e+07	1.56	y	30:05	1.09	2160		-	-	*	
PCB-96	2.69e+05	1.54	y	31:17	1.05	40.0		-	-	*	
PCB-103	2.80e+05	1.54	y	31:46	0.84	52.2		-	-	*	
PCB-100	1.42e+05	1.48	y	32:06	0.85	26.0		-	-	*	
PCB-94	1.00e+05	1.59	y	32:34	0.70	22.4		-	-	*	
PCB-98	*	*	n	NotFnd	0.70	*		392	372	1.64	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.70	*		392	372	1.64	Co-elute PCB 98
PCB-95	1.51e+07	1.59	y	33:05	0.77	3060		-	-	*	
PCB-93	*	*	n	NotFnd	0.76	*		392	372	1.50	
PCB-88	*	*	n	NotFnd	0.78	*		392	372	1.46	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.78	*		392	372	1.46	Co-elute PCB 88
PCB-121	2.79e+07	1.57	y	33:31	0.97	4490		-	-	*	
13C-PCB-104	6.42e+07	1.57	y	30:04	1.08	8760					87.6
13C-PCB-28	9.93e+07	1.05	y	26:42	1.80	8130					81.3
13C-PCB-52	6.78e+07	0.80	y	28:58	-	83.6					

PCB-56	1.38e+07	0.78	y	33:59	1.15	1490		-	-	*	Co-elute PCB 60
PCB-60	1.38e+07	0.78	y	33:59	1.15	1490		-	-	*	Co-elute PCB 56
PCB-79	2.32e+05	0.66	y	34:59	1.22	23.6		-	-	*	
PCB-78	2.16e+07	0.78	y	35:40	1.19	2250		-	-	*	
PCB-81	5.24e+05	0.88	y	36:11	1.25	52.5		-	-	*	
13C-PCB-81	7.99e+07	0.82	y	36:09	1.49	9200					92.0
PCB-77	1.32e+06	0.81	y	36:44	1.08	150		-	-	*	
13C-PCB-77	8.13e+07	0.81	y	36:43	1.57	8920					89.2
PCB-155	2.74e+07	1.24	y	34:14	1.04	3610		-	-	*	
PCB-150	5.81e+04	1.19	y	35:26	0.98	8.14	J	-	-	*	
PCB-152	*	*	n	NotFnd	0.95	*		308	364	1.01	
PCB-145	*	*	n	NotFnd	0.97	*		308	364	0.983	
PCB-136	2.34e+06	1.20	y	36:37	0.95	337		-	-	*	
PCB-148	*	*	n	NotFnd	0.70	*		308	364	1.38	
PCB-154	2.82e+05	1.24	y	37:10	0.81	47.8		-	-	*	
13C-PCB-155	7.31e+07	1.26	y	34:13	1.37	9200					92.0
13C-PCB-111	6.33e+07	1.60	y	36:18	1.21	8960					89.6
13C-PCB-101	5.82e+07	1.59	y	34:39	-	82.6					
PCB-84	8.28e+06	1.56	y	34:19	0.77	1510		-	-	*	Co-elute PCB 92
PCB-92	8.28e+06	1.56	y	34:19	0.77	1510		-	-	*	Co-elute PCB 84
PCB-89	3.37e+05	1.51	y	34:30	0.76	62.2		-	-	*	
PCB-90	1.89e+07	1.58	y	34:40	0.82	3230		-	-	*	Co-elute PCB 101
PCB-101	1.89e+07	1.58	y	34:40	0.82	3230		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.92	*		2250	2050	7.35	
PCB-99	8.28e+06	1.59	y	34:59	0.91	1280		-	-	*	
PCB-119	5.55e+05	1.47	y	35:26	1.01	77.1		-	-	*	
PCB-83	9.49e+05	1.60	y	35:35	0.82	161		-	-	*	Co-elute PCB 112
PCB-112	9.49e+05	1.60	y	35:35	0.82	161		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.00	*		2250	2050	6.76	
PCB-97	4.83e+06	1.57	y	35:55	0.69	984		-	-	*	
PCB-86	1.60e+05	1.66	y	36:03	0.72	31.4		-	-	*	
PCB-125	6.88e+06	1.59	y	36:11	0.90	1070		-	-	*	Co-elute PCB 87/117
PCB-87	6.88e+06	1.59	y	36:11	0.90	1070		-	-	*	Co-elute PCB 125/117
PCB-117	6.88e+06	1.59	y	36:11	0.90	1070		-	-	*	Co-elute PCB 125/87
PCB-111	4.71e+05	1.64	y	36:19	1.01	65.1		-	-	*	Co-elute PCB 115
PCB-115	4.71e+05	1.64	y	36:19	1.01	65.1		-	-	*	Co-elute PCB 111
PCB-85	2.68e+06	1.61	y	36:27	0.91	414		-	-	*	Co-elute PCB 116
PCB-116	2.68e+06	1.61	y	36:27	0.91	414		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.04	*		2250	2050	6.45	
PCB-110	2.00e+07	1.61	y	36:48	1.03	2730		-	-	*	
PCB-82	1.59e+06	1.52	y	37:25	0.60	369		-	-	*	
PCB-124	6.08e+05	1.69	y	38:03	1.21	70.4		-	-	*	
PCB-108	9.88e+05	1.53	y	38:13	1.14	121		-	-	*	Co-elute PCB 107
PCB-107	9.88e+05	1.53	y	38:13	1.14	121		-	-	*	Co-elute PCB 108
PCB-123	2.75e+05	1.38	y	38:21	1.04	38.2		-	-	*	
13C-PCB-123	6.91e+07	1.57	y	38:20	1.28	9680					96.8
PCB-118	1.22e+07	1.53	y	38:31	1.10	1460		-	-	*	Co-elute PCB 106
PCB-106	1.22e+07	1.53	y	38:31	1.10	1460		-	-	*	Co-elute PCB 118
13C-PCB-118	7.58e+07	1.58	y	38:31	1.39	9740					97.4
PCB-114	3.37e+05	1.56	y	39:09	1.23	37.7		-	-	*	
13C-PCB-114	7.26e+07	1.58	y	39:07	1.31	9900					99.0
PCB-122	1.66e+05	1.75	y	39:17	1.12	20.7		-	-	*	
PCB-105	4.65e+06	1.66	y	39:58	1.19	575		-	-	*	
13C-PCB-105	6.81e+07	1.58	y	39:57	1.32	9200					92.0

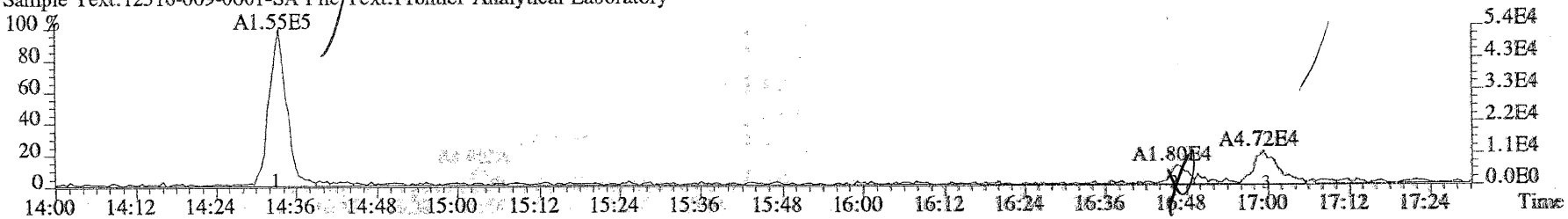
PCB-127	*	*	n	NotFnd	1.09	*		1140	1040	3.15	
PCB-126	4.93e+04	1.46	y	42:05	1.12	6.91	J	-	-	*	
13C-PCB-126	6.38e+07	1.58	y	42:03	1.25	9120					91.2
PCB-151	2.80e+06	1.28	y	37:48	0.91	514		-	-	*	
PCB-135	1.51e+06	1.28	y	38:00	0.86	296		-	-	*	
PCB-144	6.67e+05	1.36	y	38:06	1.09	102		-	-	*	
PCB-147	2.33e+05	1.14	y	38:13	1.01	38.7		-	-	*	
PCB-139	9.77e+06	1.20	y	38:28	1.04	1570		-	-	*	Co-elute PCB 149
PCB-149	9.77e+06	1.20	y	38:28	1.04	1570		-	-	*	Co-elute PCB 139
PCB-140	1.17e+05	1.31	y	38:38	1.03	18.9	J	-	-	*	
PCB-143	6.49e+05	1.18	y	39:04	0.84	130		-	-	*	Co-elute PCB 134
PCB-134	6.49e+05	1.18	y	39:04	0.84	130		-	-	*	Co-elute PCB 143
PCB-131	2.87e+05	1.30	y	39:20	0.85	56.6		-	-	*	Co-elute PCB 133
PCB-133	2.87e+05	1.30	y	39:20	0.85	56.6		-	-	*	Co-elute PCB 131
PCB-142	5.82e+07	1.25	y	39:30	0.85	11500		-	-	*	
PCB-165	1.89e+06	1.35	y	39:42	1.12	282		-	-	*	Co-elute PCB 146
PCB-146	1.89e+06	1.35	y	39:42	1.12	282		-	-	*	Co-elute PCB 165
PCB-161	3.64e+06	1.21	y	39:58	1.04	587		-	-	*	Co-elute PCB 132
PCB-132	3.64e+06	1.21	y	39:58	1.04	587		-	-	*	Co-elute PCB 161
PCB-153	9.17e+06	1.25	y	40:05	1.16	1320		-	-	*	
PCB-168	*	*	n	NotFnd	1.25	*		1020	1350	3.35	
PCB-141	1.49e+06	1.26	y	40:48	0.94	266		-	-	*	
PCB-137	3.23e+05	1.28	y	41:09	0.86	62.9		-	-	*	
PCB-130	4.48e+05	1.27	y	41:16	0.90	83.6		-	-	*	
PCB-138	9.47e+06	1.25	y	41:35	1.13	1410		-	-	*	Co-elute PCB 163/164
PCB-163	9.47e+06	1.25	y	41:35	1.13	1410		-	-	*	Co-elute PCB 138/164
PCB-164	9.47e+06	1.25	y	41:35	1.13	1410		-	-	*	Co-elute PCB 138/163
PCB-158	1.15e+06	1.30	y	41:49	1.25	155		-	-	*	Co-elute PCB 160
PCB-160	1.15e+06	1.30	y	41:49	1.25	155		-	-	*	Co-elute PCB 158
PCB-129	2.67e+05	1.21	y	42:03	0.81	55.3		-	-	*	
PCB-166	*	*	n	NotFnd	1.18	*		1020	1350	3.53	
PCB-159	1.50e+05	1.26	y	42:49	1.27	19.8	J	-	-	*	
PCB-128	1.16e+06	1.25	y	43:04	1.05	185		-	-	*	Co-elute PCB 162
PCB-162	1.16e+06	1.25	y	43:04	1.05	185		-	-	*	Co-elute PCB 128
PCB-167	3.13e+05	1.22	y	43:26	1.15	45.1		-	-	*	
13C-PCB-167	6.06e+07	1.28	y	43:26	1.14	9520					95.2
PCB-156	7.21e+05	1.21	y	44:40	1.21	102		-	-	*	
13C-PCB-156	5.87e+07	1.27	y	44:40	1.12	9350					93.5
PCB-157	1.76e+05	1.26	y	44:56	1.17	24.6		-	-	*	
13C-PCB-157	6.13e+07	1.28	y	44:55	1.15	9510					95.1
PCB-169	*	*	n	NotFnd	1.10	*		1020	1350	3.40	
13C-PCB-169	5.82e+07	1.27	y	46:46	1.07	9690					96.9

FAL ID: 12510-009-0001-SA Filename: 31JUL19Z Sam:13 Acquired: 1-AUG-19 00:06:11 ICal: DAILY209FAL4-7-31-19
Client ID: LDW-Y2-SU-ENR-CA-S010 ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

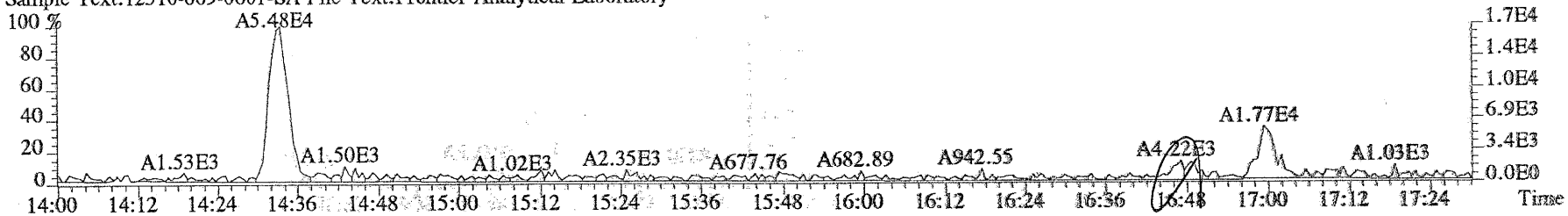
PCB-188	7.36e+04	1.11	y	39:43	1.05	11.2	J	-	-	*	
13C-PCB-188	6.26e+07	1.05	y	39:42	1.18	9500					95.0
PCB-184	3.46e+07	1.03	y	40:10	1.20	5010		-	-	*	
PCB-179	1.00e+06	0.99	y	40:54	1.13	155		-	-	*	
PCB-176	3.06e+05	0.93	y	41:21	1.10	48.6		-	-	*	
PCB-186	3.74e+04	0.95	y	41:55	1.11	5.87	J	-	-	*	
PCB-178	2.98e+05	0.99	y	42:21	0.76	68.4		-	-	*	
PCB-175	*	*	n	NotFnd	0.77	*		440	376	1.81	
PCB-187	1.75e+06	1.00	y	42:51	0.87	349		-	-	*	Co-elute PCB 182
PCB-182	1.75e+06	1.00	y	42:51	0.87	349		-	-	*	Co-elute PCB 187
PCB-183	7.84e+05	1.09	y	43:09	0.86	159		-	-	*	
PCB-185	1.67e+05	1.07	y	43:47	0.77	37.7		-	-	*	
PCB-174	1.25e+06	1.00	y	44:07	0.79	276		-	-	*	
PCB-181	*	*	n	NotFnd	0.78	*		440	376	1.78	
PCB-177	6.58e+05	1.04	y	44:23	0.70	163		-	-	*	
PCB-171	3.04e+05	0.99	y	44:40	0.77	68.8		-	-	*	
PCB-173	*	*	n	NotFnd	0.68	*		440	376	2.03	
PCB-172	6.48e+05	1.12	y	45:26	0.72	158		-	-	*	
PCB-192	2.17e+07	1.05	y	45:37	0.97	3910		-	-	*	
PCB-180	2.18e+06	1.11	y	45:49	0.75	509		-	-	*	
PCB-193	1.68e+05	0.90	y	45:59	1.05	27.8		-	-	*	
PCB-191	*	*	n	NotFnd	0.99	*		440	376	1.40	
PCB-170	7.35e+05	1.00	y	47:06	0.71	179		-	-	*	
PCB-190	2.19e+05	1.09	y	47:16	0.96	39.8		-	-	*	
PCB-189	4.03e+04	0.97	y	48:27	1.00	7.75	J	-	-	*	
13C-PCB-189	5.22e+07	1.07	y	48:25	1.01	9260					92.6
PCB-202	1.15e+05	0.77	y	44:51	1.02	23.4		-	-	*	
PCB-201	6.81e+04	0.79	y	45:18	1.10	12.7	J	-	-	*	
PCB-204	5.01e+07	0.87	y	45:26	1.11	9290		-	-	*	
PCB-197	2.89e+05	0.78	y	45:41	1.15	52.0		-	-	*	
PCB-200	6.95e+04	1.00	y	46:27	1.11	12.9	J	-	-	*	
PCB-198	2.45e+04	0.78	y	47:38	0.78	6.51	J	-	-	*	
PCB-199	3.17e+05	0.91	y	47:42	0.74	87.9		-	-	*	
PCB-203	3.49e+05	0.96	y	47:57	0.83	86.6		-	-	*	Co-elute PCB 196
PCB-196	3.49e+05	0.96	y	47:57	0.83	86.6		-	-	*	Co-elute PCB 203
13C-PCB-202	4.85e+07	0.91	y	44:50	0.95	9160					91.6
13C-PCB-178	3.98e+07	1.06	y	42:20	0.80	8930					89.3
13C-PCB-138	5.59e+07	1.27	y	41:34	-	75.2					
PCB-195	1.22e+05	0.89	y	49:03	0.78	30.5		-	-	*	
PCB-194	2.63e+05	0.83	y	49:52	0.86	59.8		-	-	*	
PCB-205	2.99e+04	0.79	y	50:06	1.09	5.35	J	-	-	*	
13C-PCB-205	5.14e+07	0.92	y	50:06	1.29	9450					94.5
PCB-208	3.74e+04	1.15	y	49:10	1.05	7.13	J	-	-	*	
13C-PCB-208	4.99e+07	0.83	y	49:09	1.15	10200					102
PCB-207	2.33e+05	1.50	y	49:28	1.23	43.9		-	-	*	
PCB-206	7.59e+04	1.29	y	51:18	1.08	19.4	J	-	-	*	
13C-PCB-206	3.61e+07	0.80	y	51:18	0.88	9730					97.3
PCB-209	2.58e+05	1.15	y	52:29	1.13	48.8		-	-	*	
13C-PCB-209	4.67e+07	1.20	y	52:28	1.08	10300					103
13C-PCB-194	4.21e+07	0.91	y	49:50	-	58.7					

Analyst: _____ Date: 8/1/19

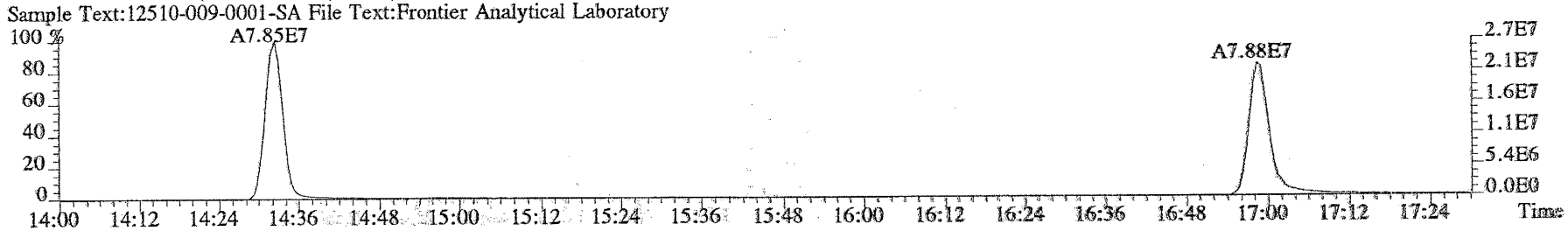
File:31JUL19Z #1-783 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



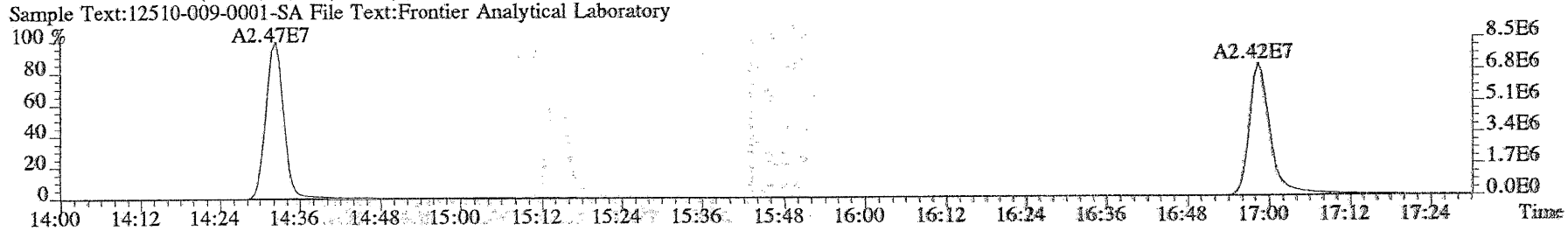
File:31JUL19Z #1-783 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



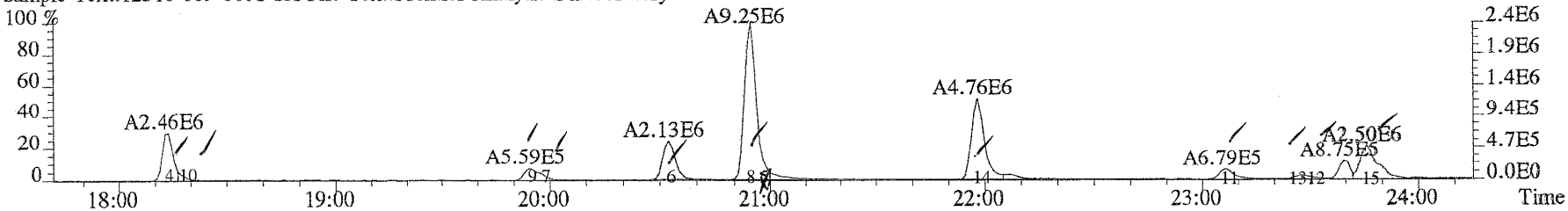
File:31JUL19Z #1-783 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



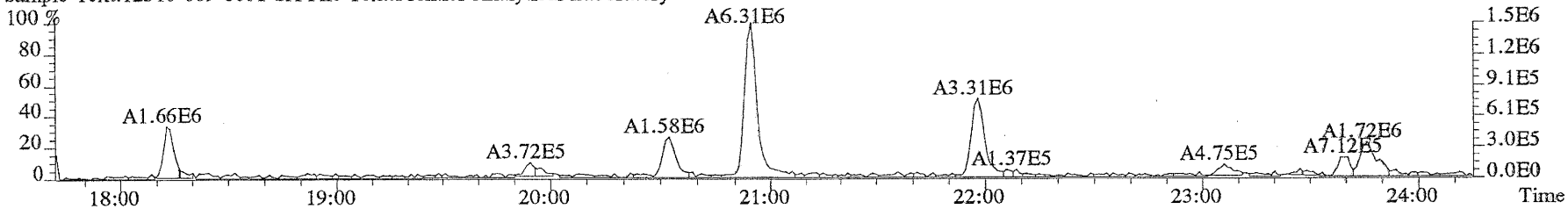
File:31JUL19Z #1-783 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:13 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



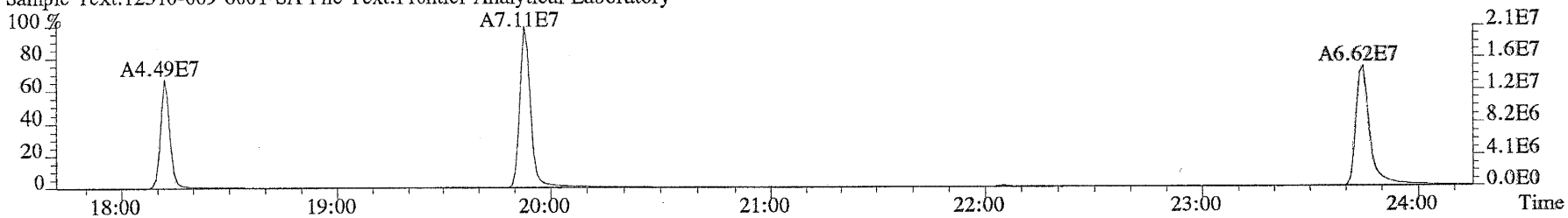
File:31JUL19Z #1-521 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



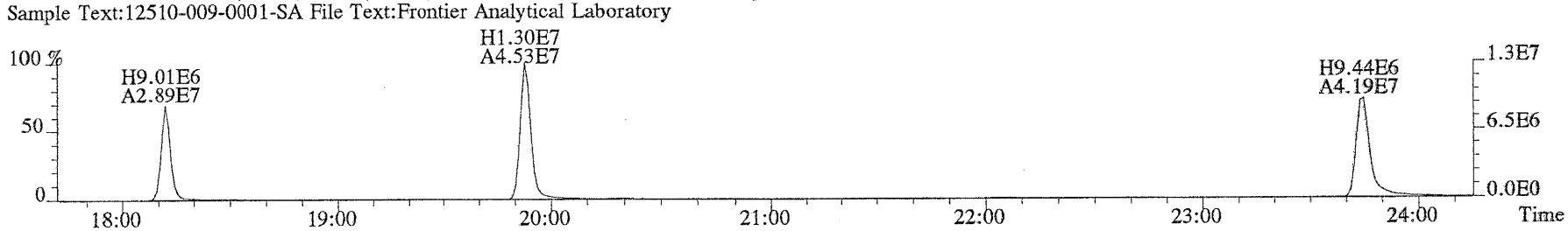
File:31JUL19Z #1-521 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



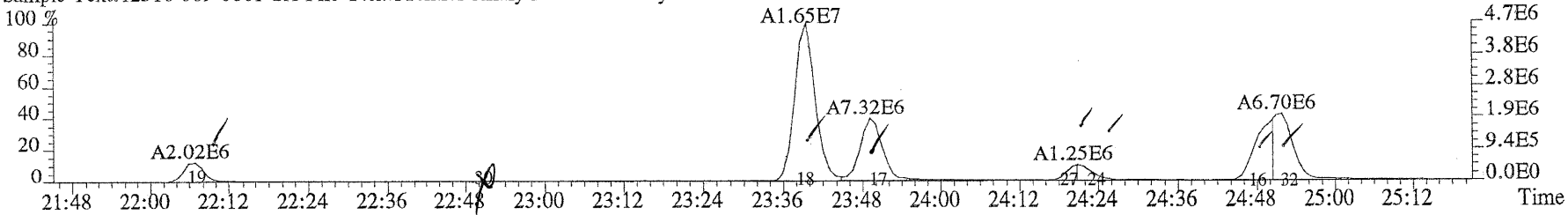
File:31JUL19Z #1-521 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



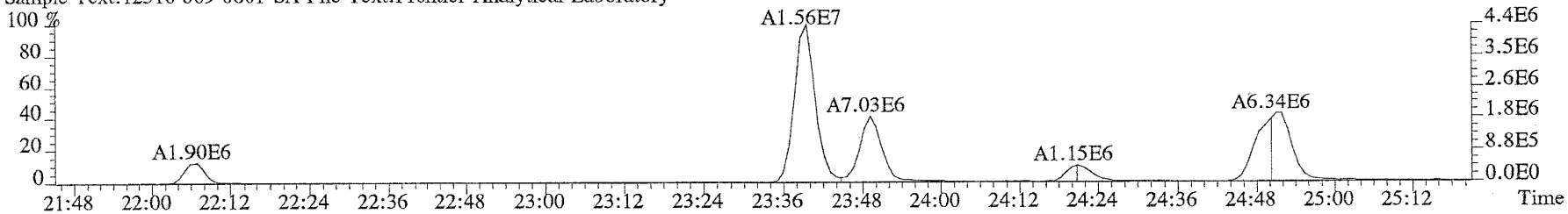
File:31JUL19Z #1-521 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



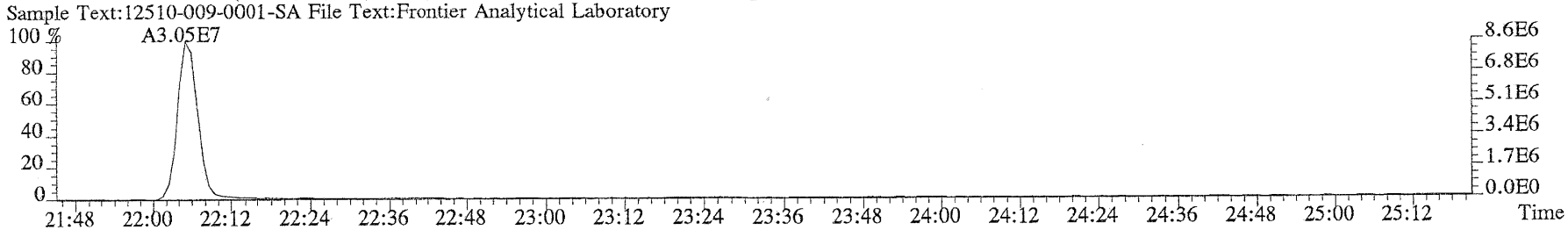
File:31JUL19Z #1-521 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



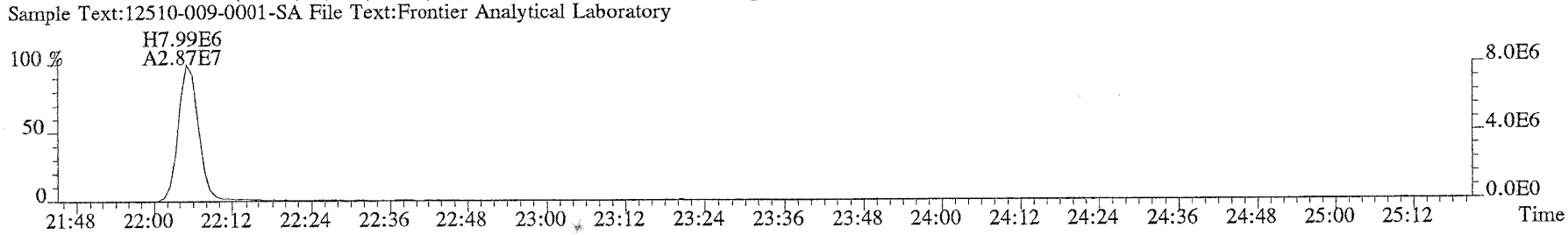
File:31JUL19Z #1-521 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



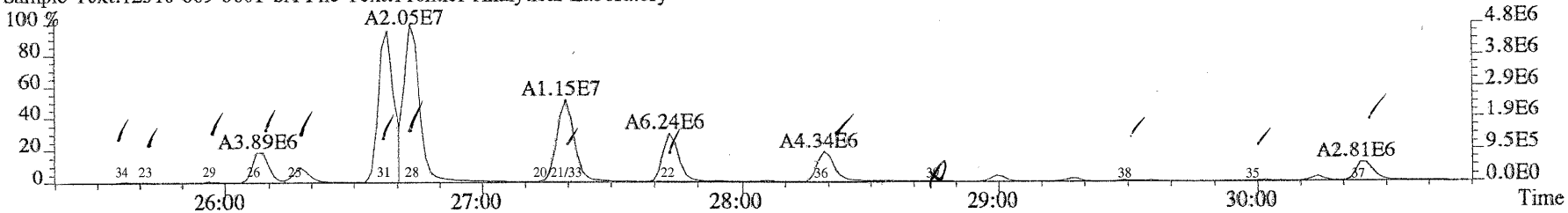
File:31JUL19Z #1-521 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



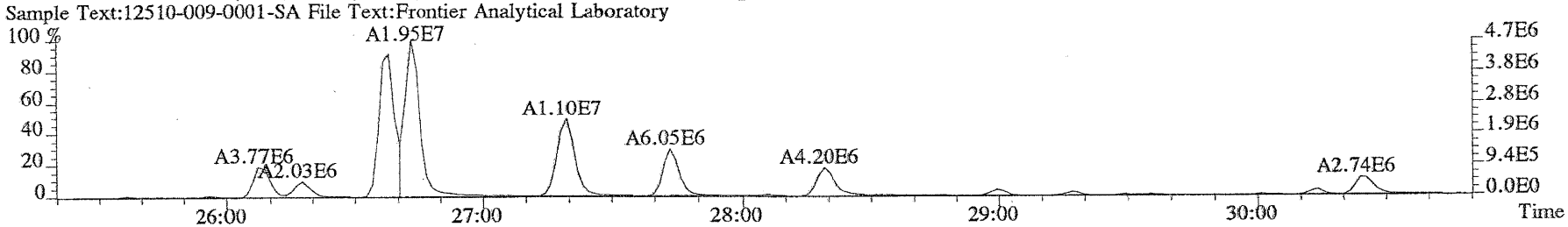
File:31JUL19Z #1-521 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



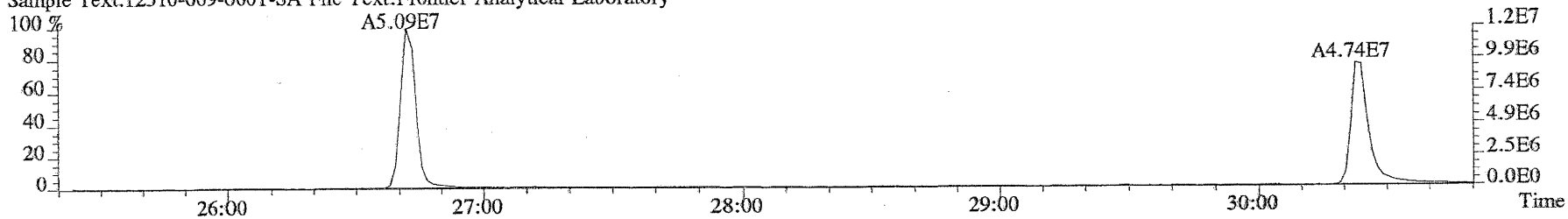
File:31JUL19Z #1-401 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



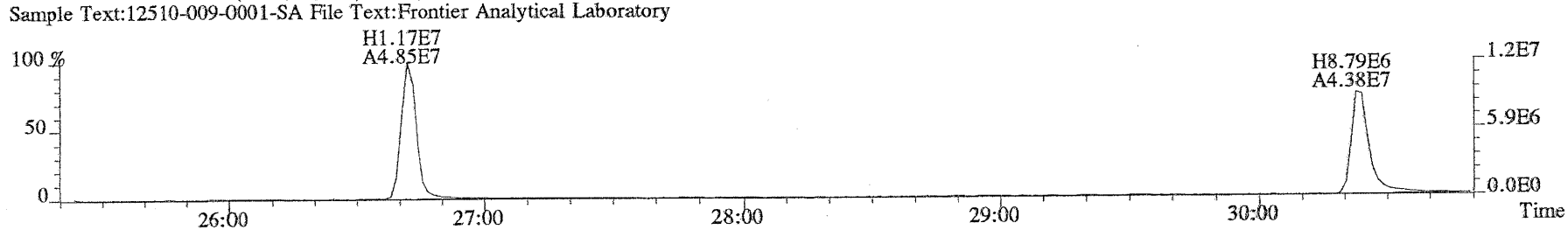
File:31JUL19Z #1-401 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



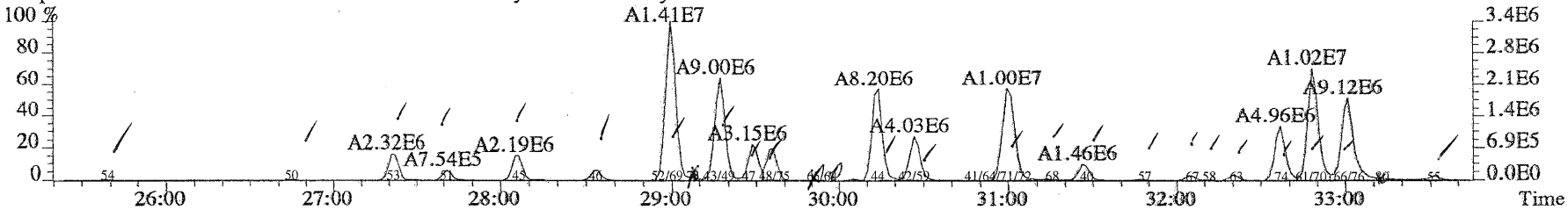
File:31JUL19Z #1-401 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



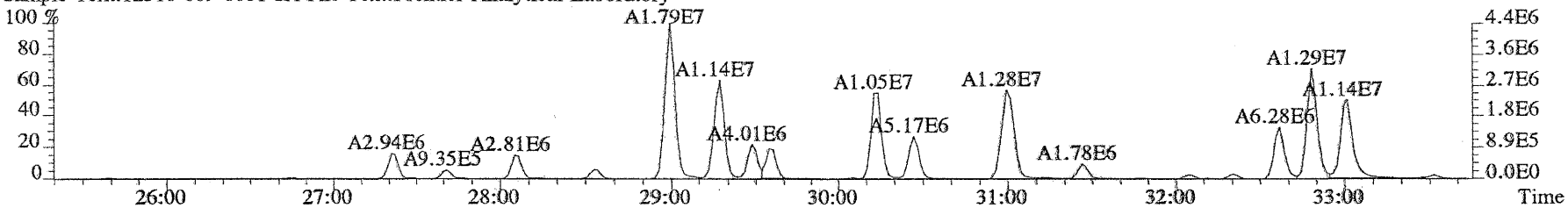
File:31JUL19Z #1-401 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-401 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
289.9224 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:12510-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-401 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
291.9194 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:12510-009-0001-SA File Text:Frontier Analytical Laboratory



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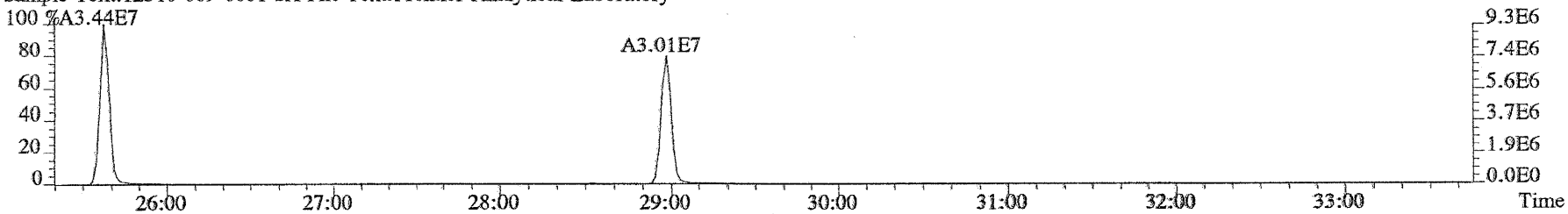
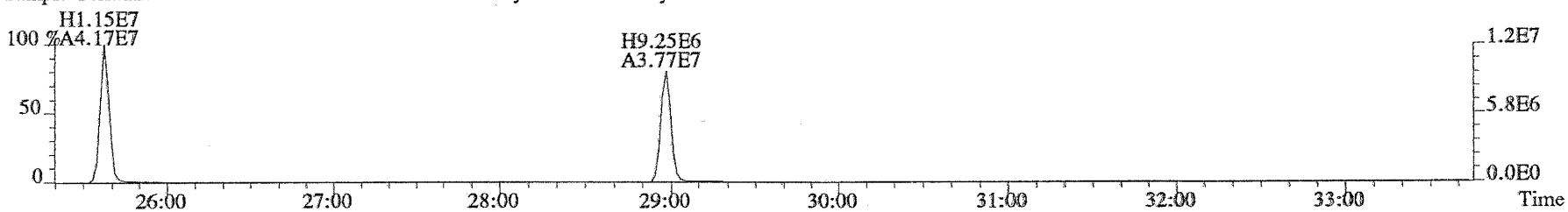
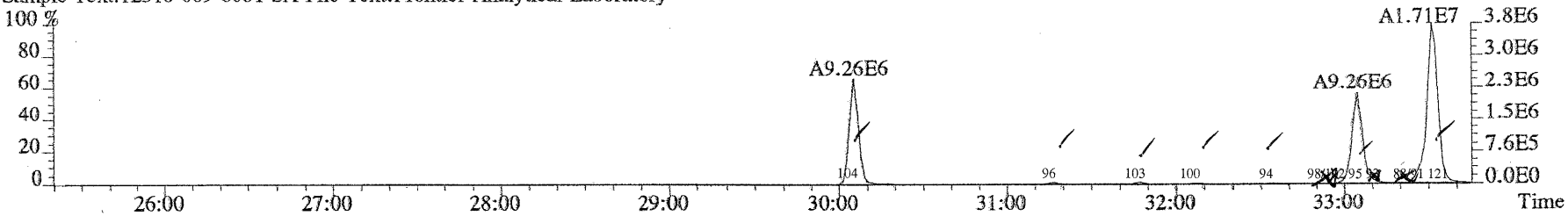
301.9626 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



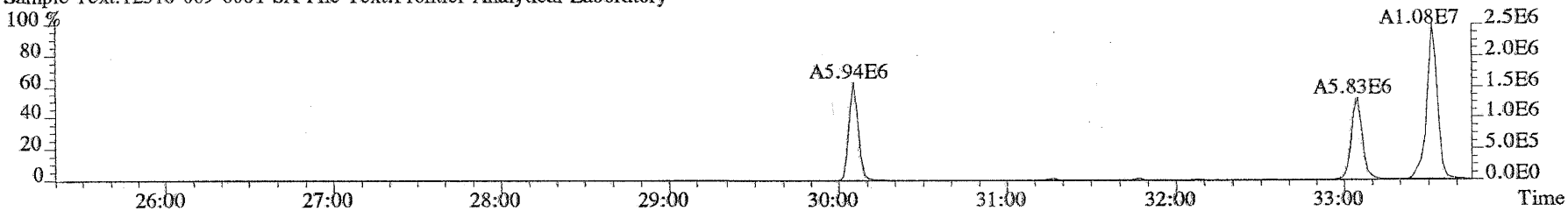
File:31JUL19Z #1-401 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



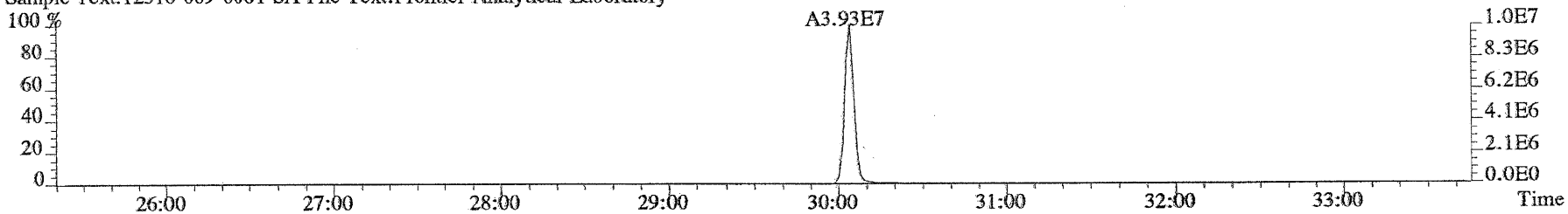
File:31JUL19Z #1-401 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



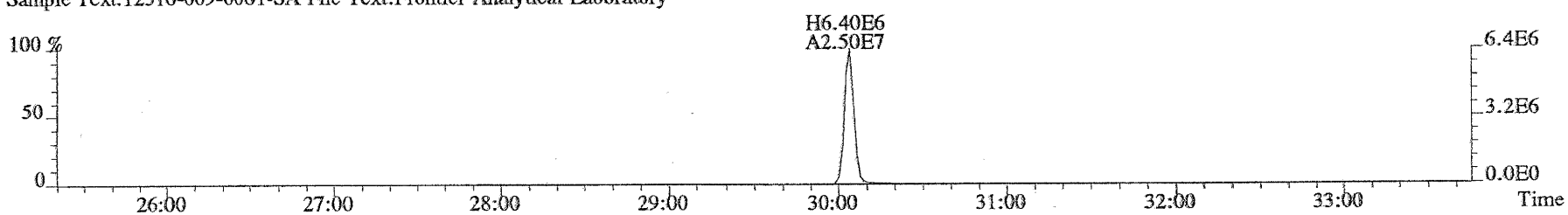
File:31JUL19Z #1-401 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



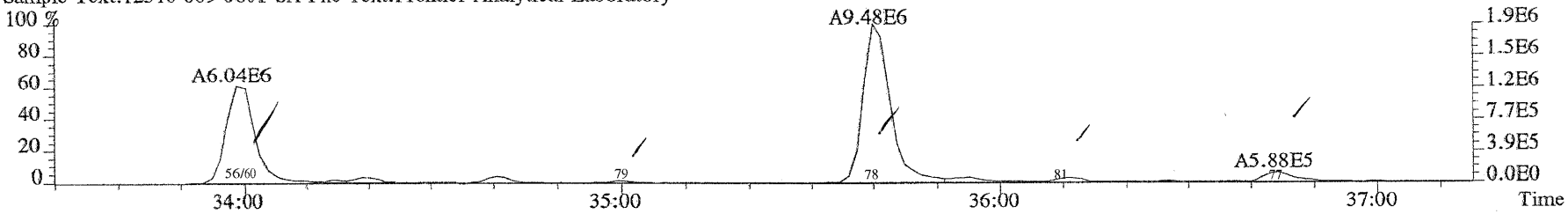
File:31JUL19Z #1-401 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



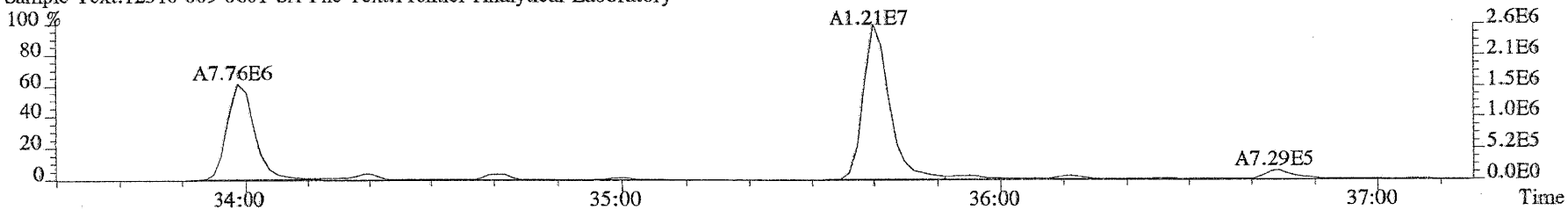
File:31JUL19Z #1-401 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



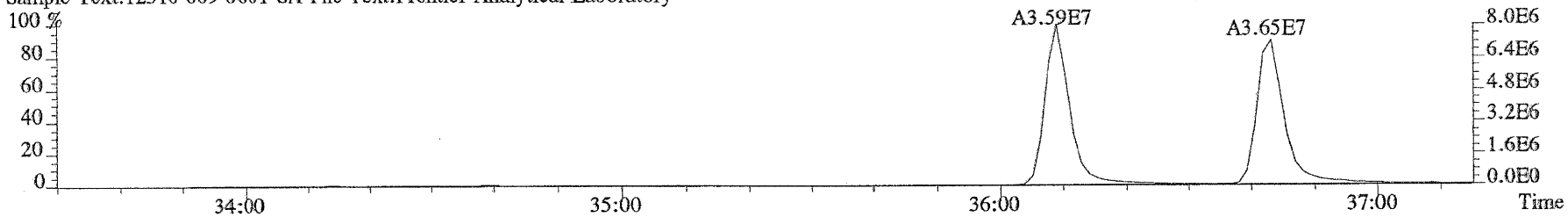
File:31JUL19Z #1-180 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



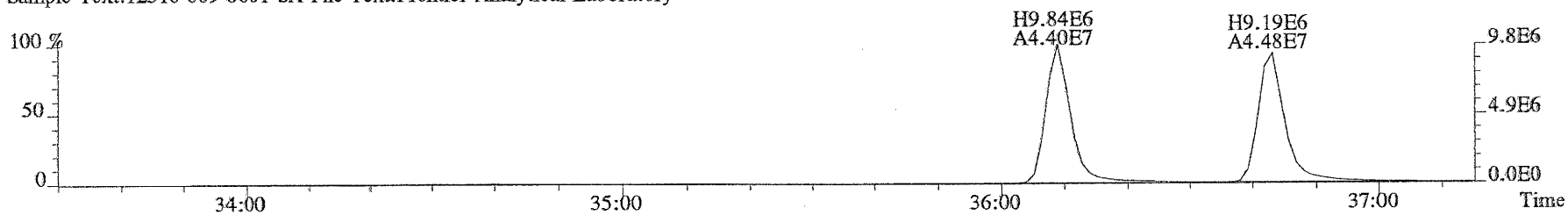
File:31JUL19Z #1-180 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



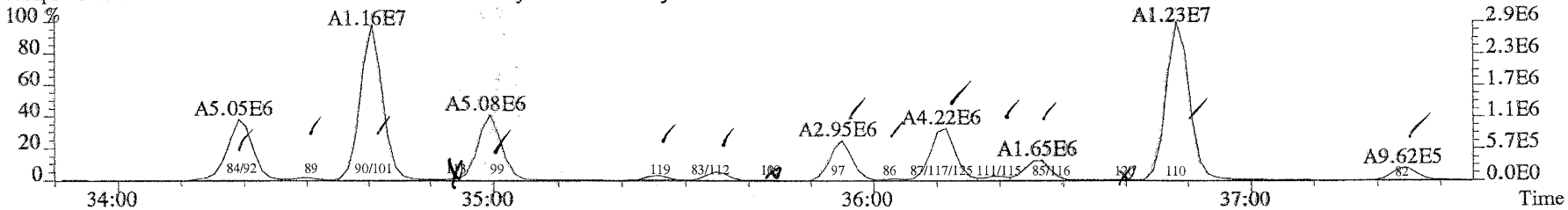
File:31JUL19Z #1-180 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



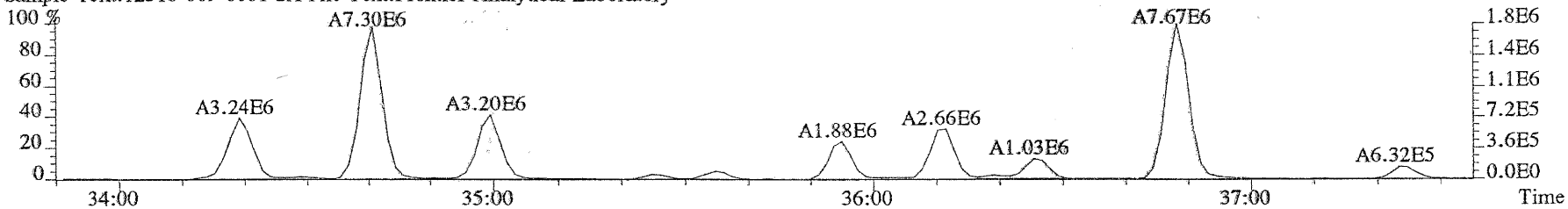
File:31JUL19Z #1-180 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



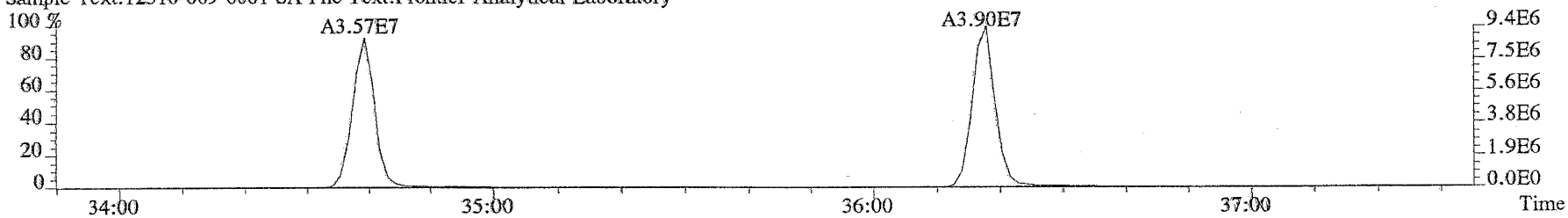
File:31JUL19Z #1-180 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



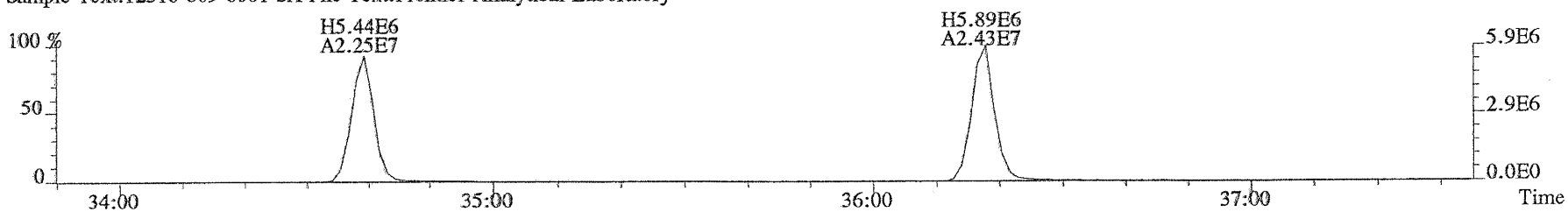
File:31JUL19Z #1-180 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



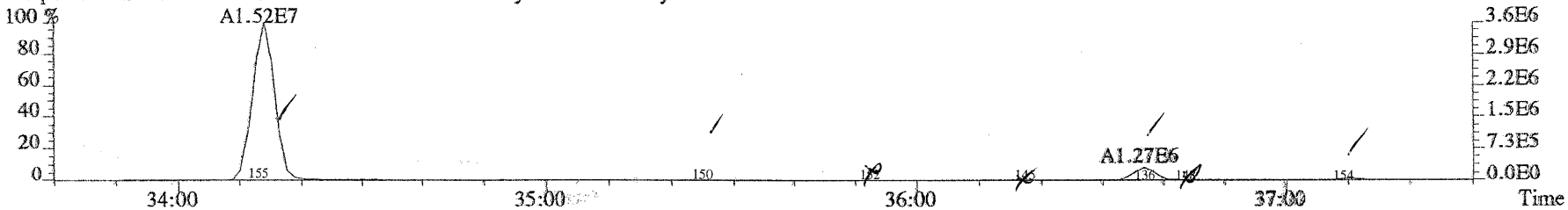
File:31JUL19Z #1-180 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



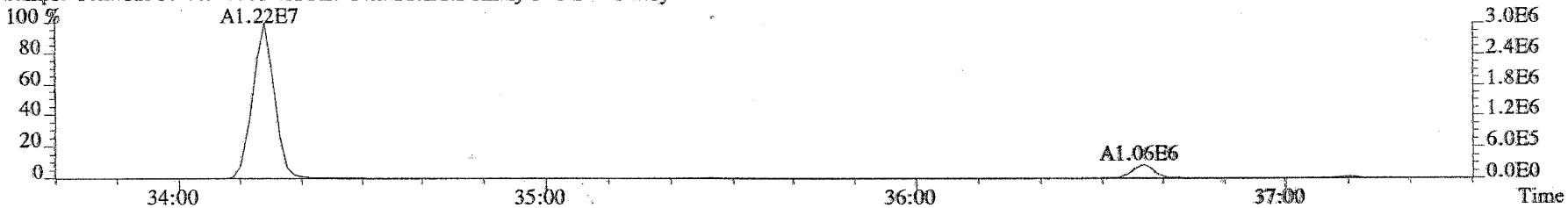
File:31JUL19Z #1-180 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



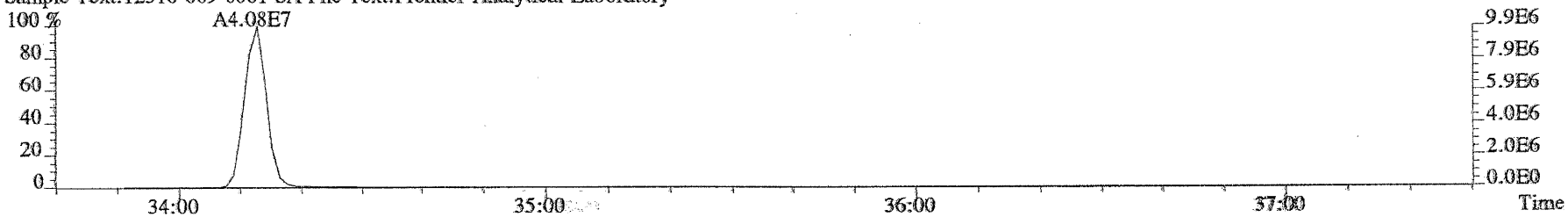
File:31JUL19Z #1-180 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



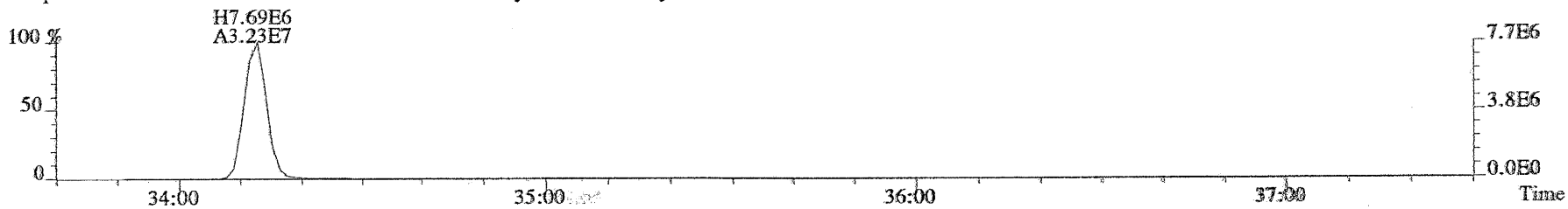
File:31JUL19Z #1-180 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



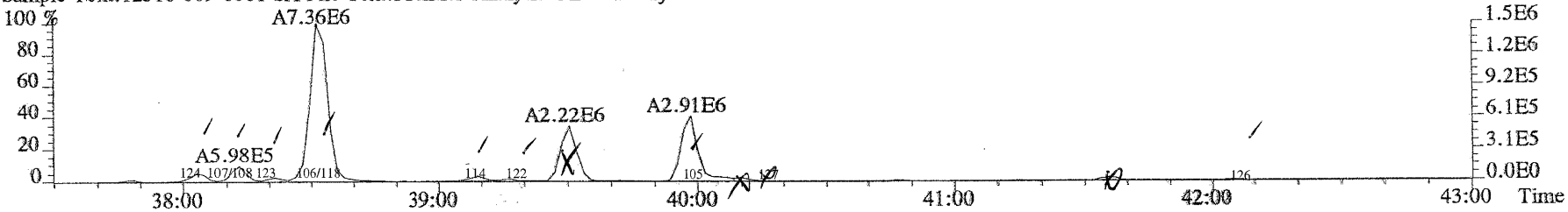
File:31JUL19Z #1-180 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



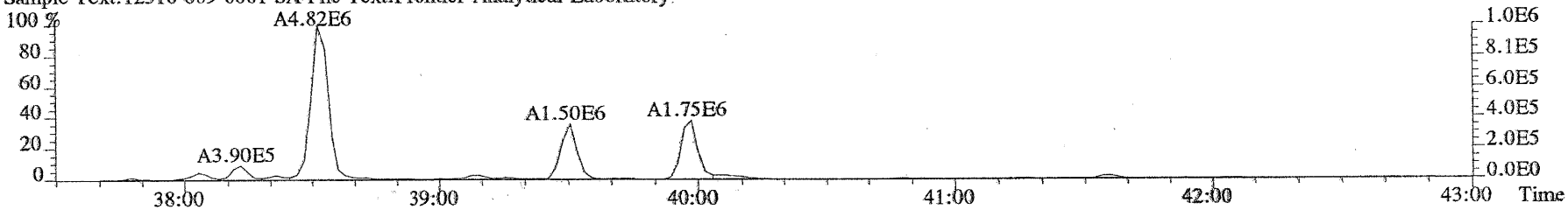
File:31JUL19Z #1-180 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



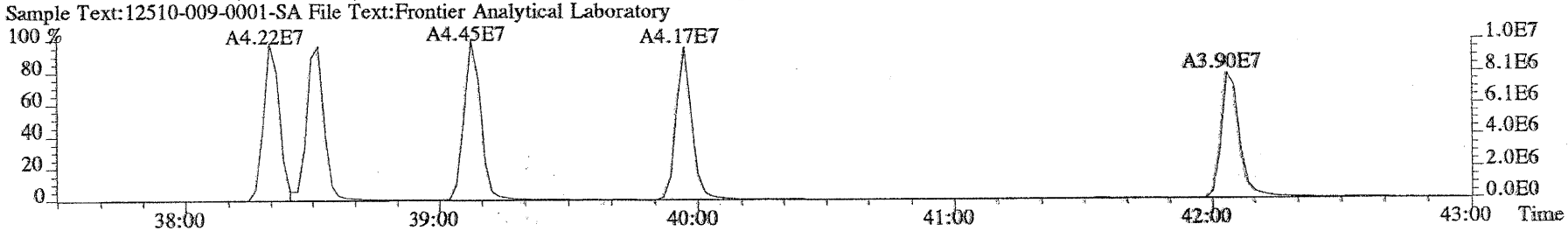
File:31JUL19Z #1-405 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-405 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
327.8775 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:12510-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-405 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
337.9207 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:12510-009-0001-SA File Text:Frontier Analytical Laboratory



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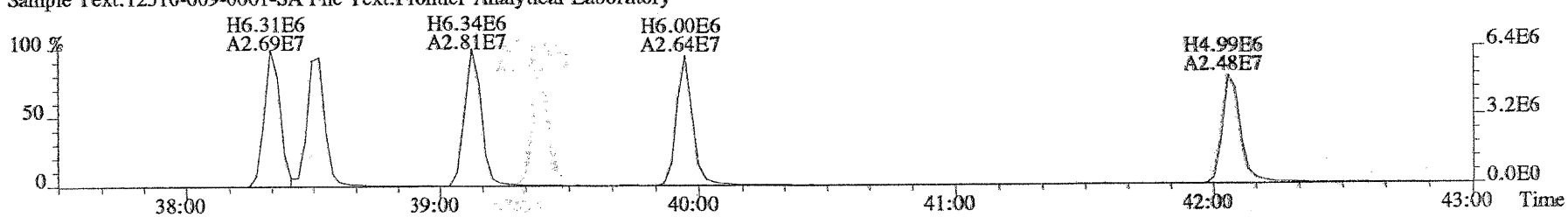
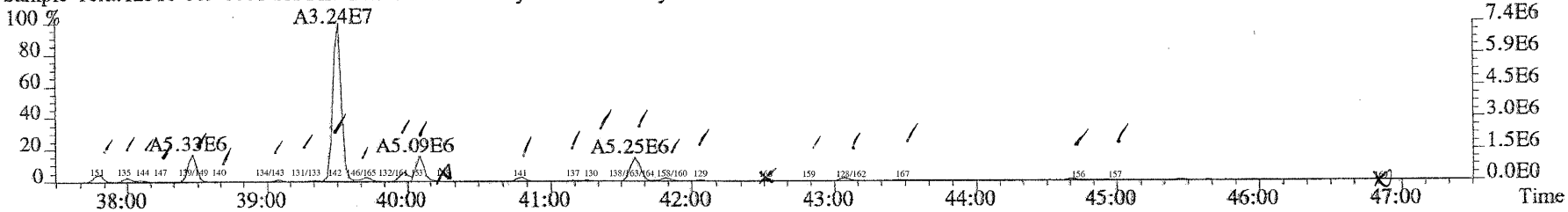
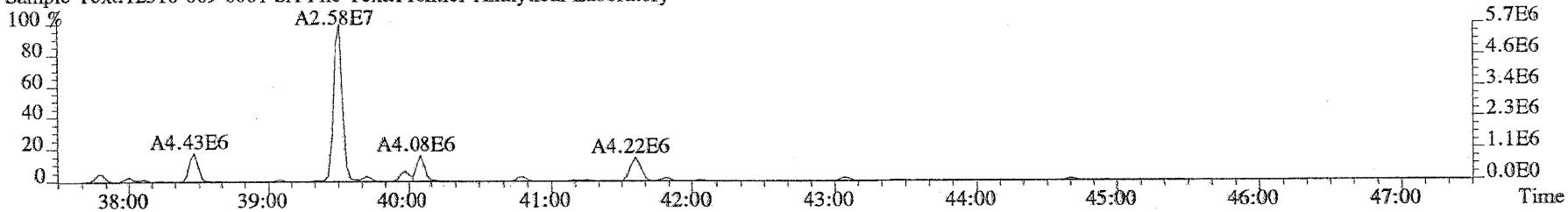
339.9178 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



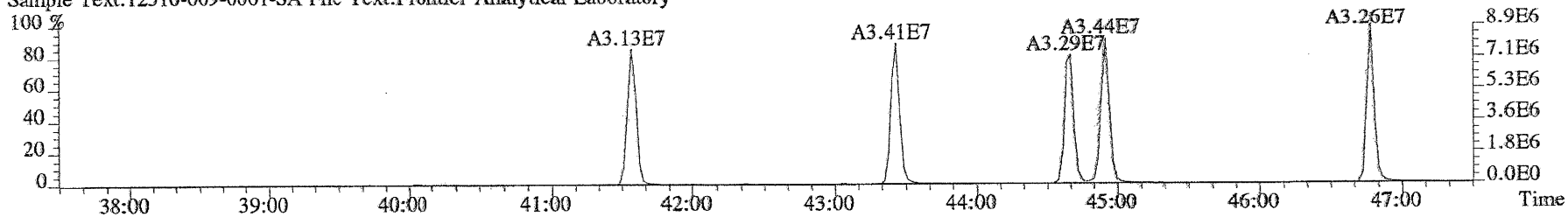
File:31JUL19Z #1-405 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



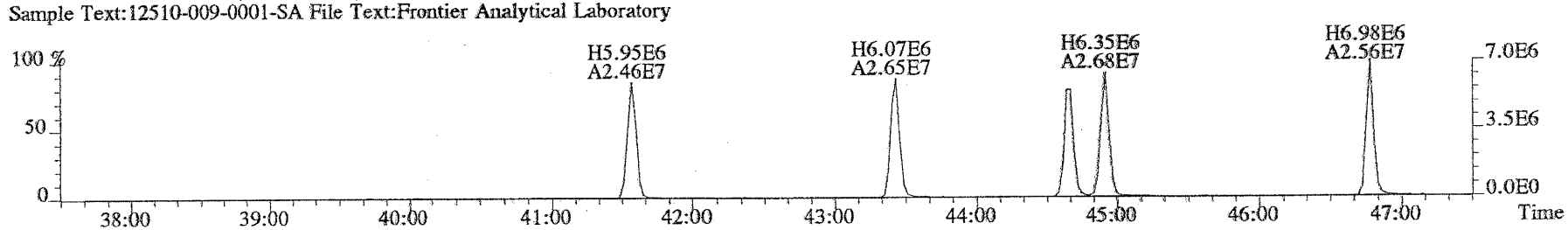
File:31JUL19Z #1-405 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-405 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
371.8817 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:12510-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-405 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
373.8788 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:12510-009-0001-SA File Text:Frontier Analytical Laboratory



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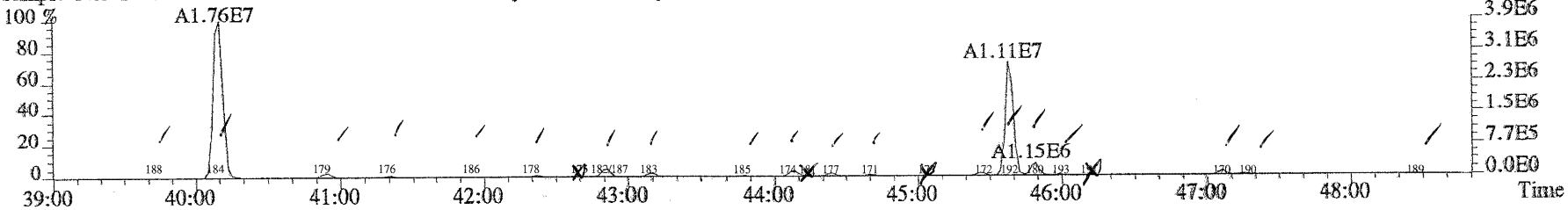
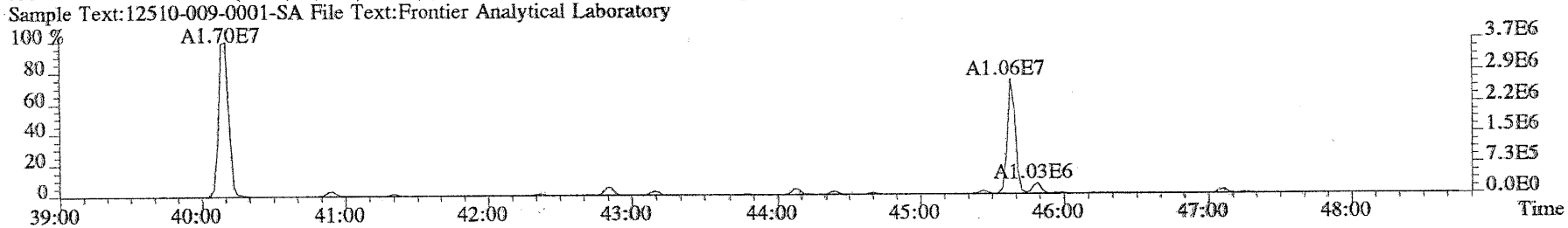
393.8025 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-405 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



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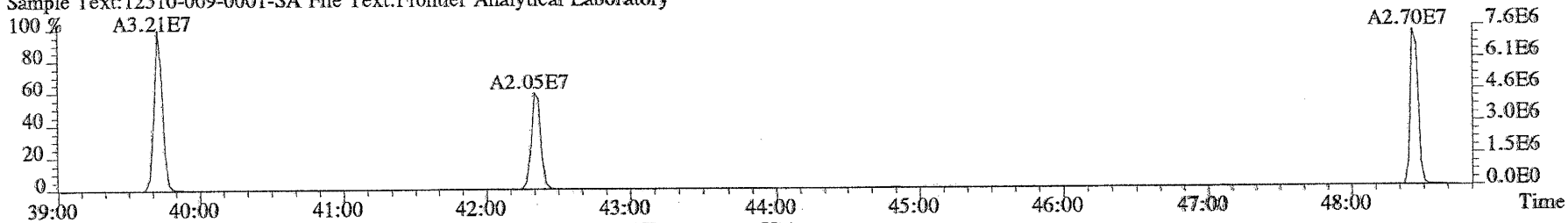
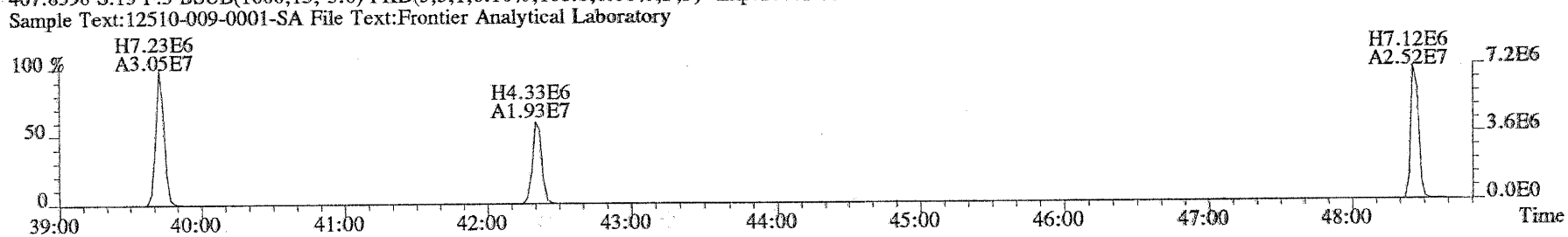
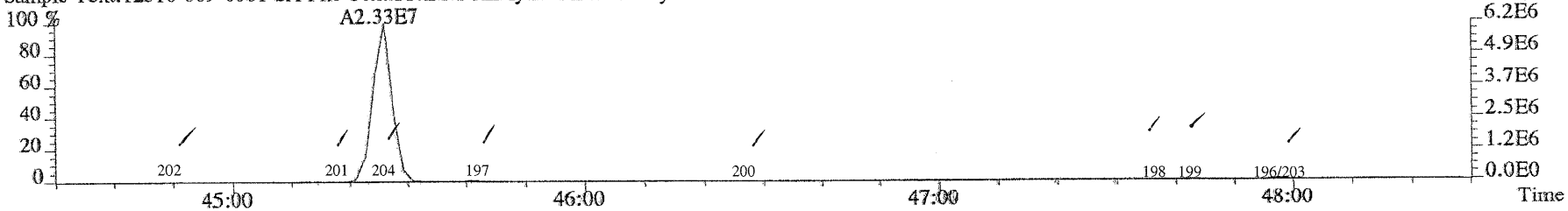
405.8428 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



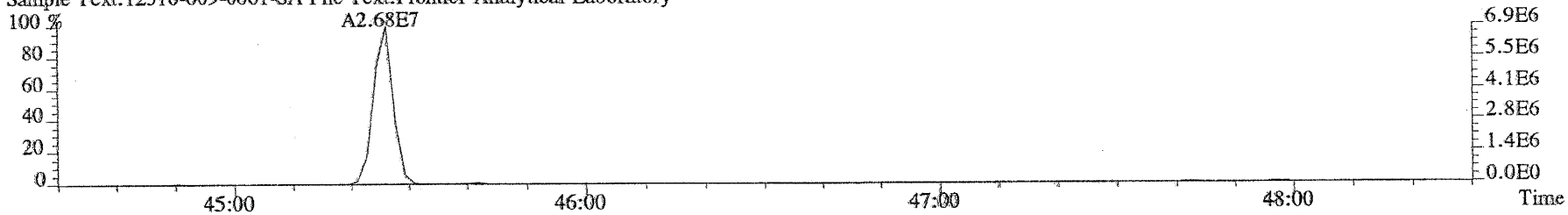
File:31JUL19Z #1-405 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



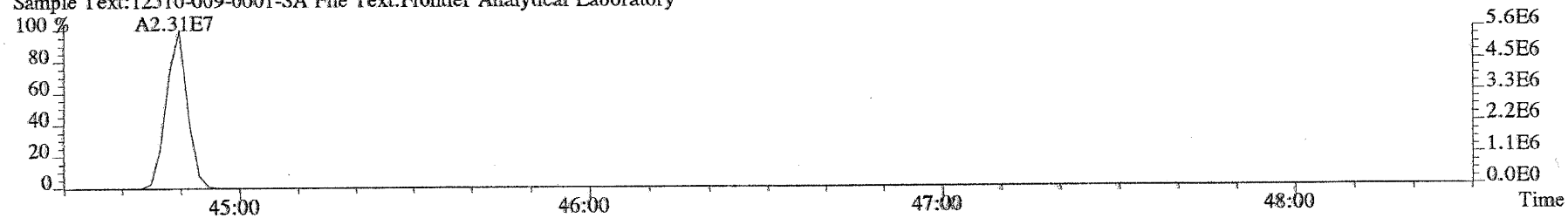
File:31JUL19Z #1-405 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



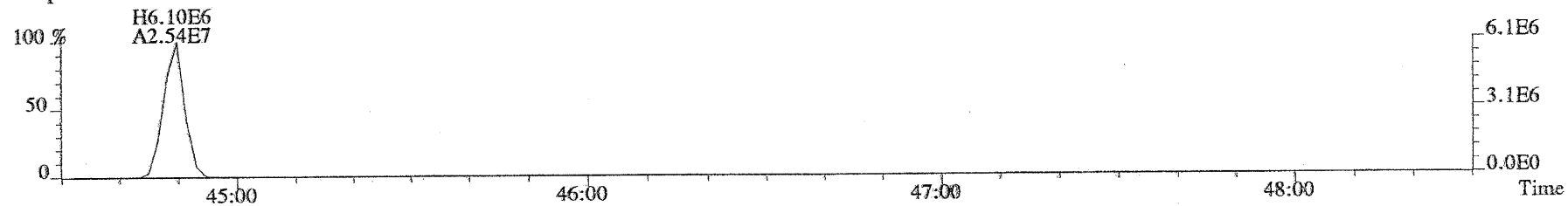
File:31JUL19Z #1-405 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



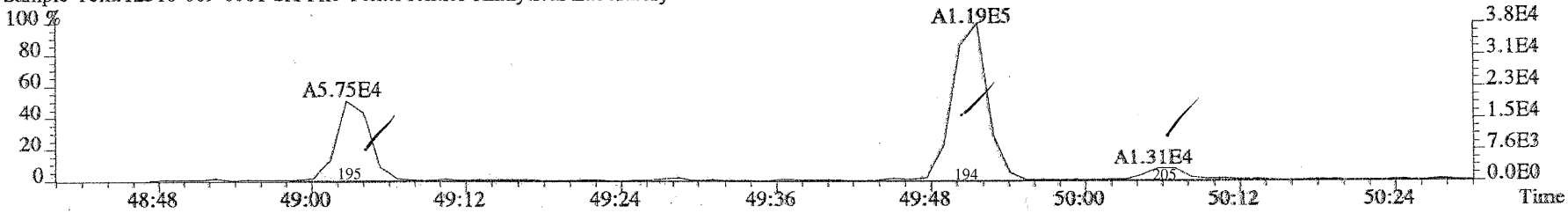
File:31JUL19Z #1-405 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



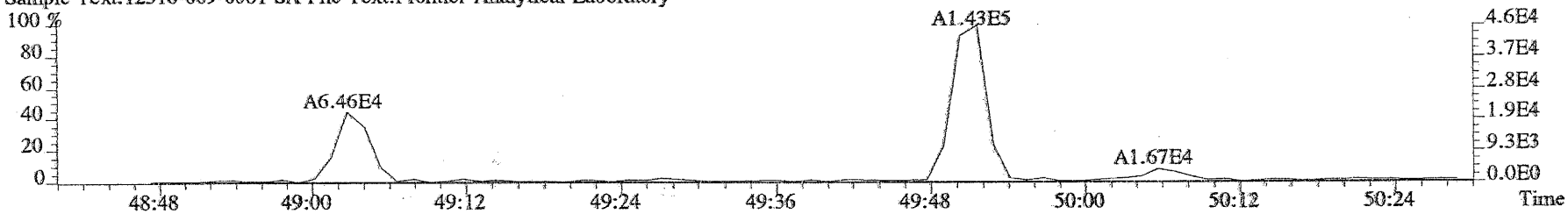
File:31JUL19Z #1-405 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



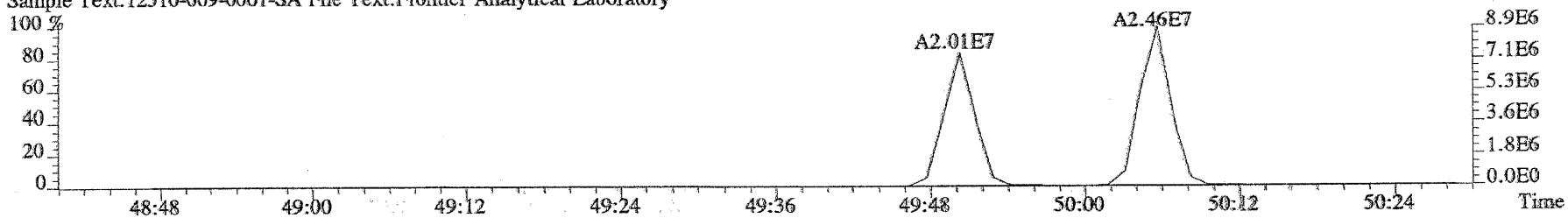
File:31JUL19Z #1-315 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



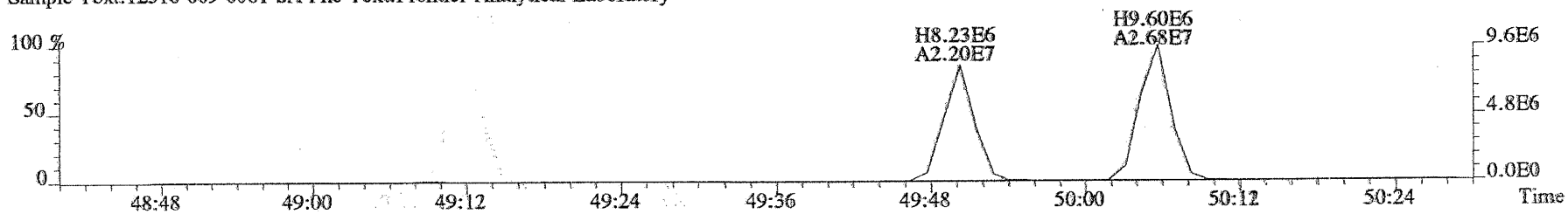
File:31JUL19Z #1-315 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



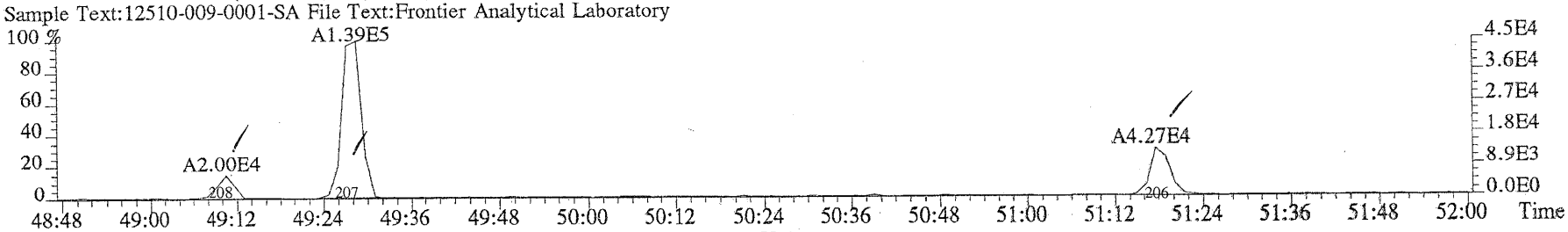
File:31JUL19Z #1-315 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



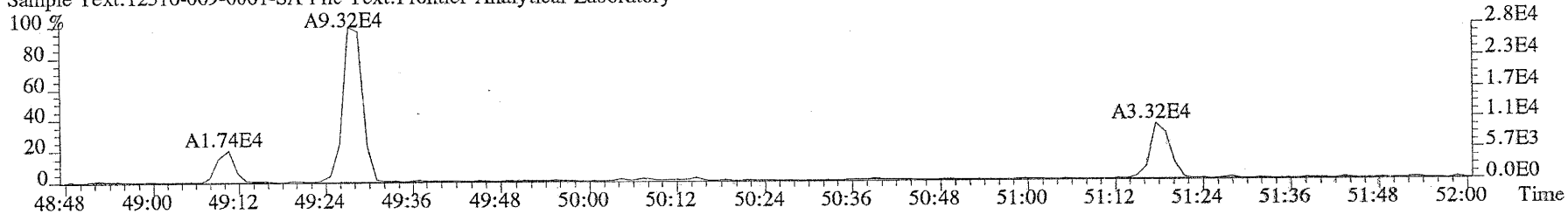
File:31JUL19Z #1-315 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



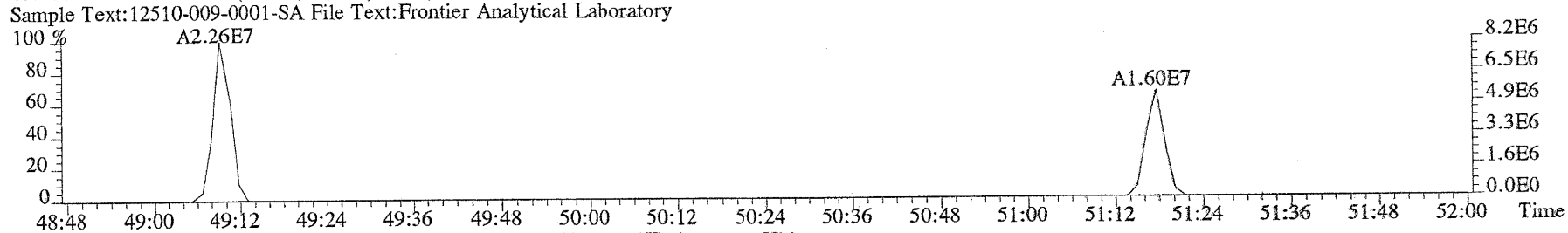
File:31JUL19Z #1-315 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



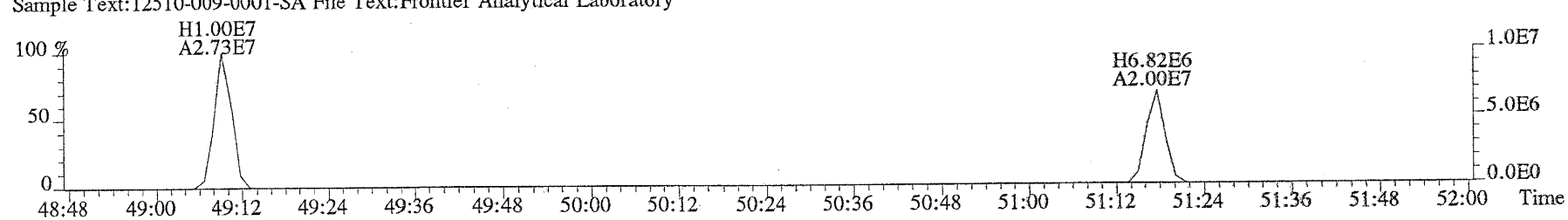
File:31JUL19Z #1-315 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



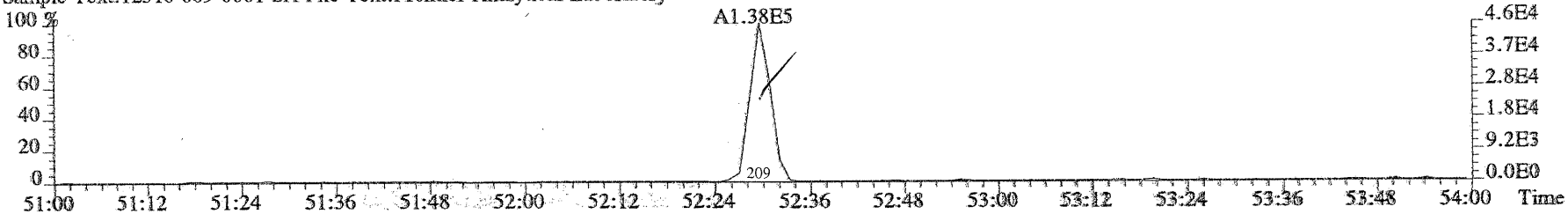
File:31JUL19Z #1-315 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



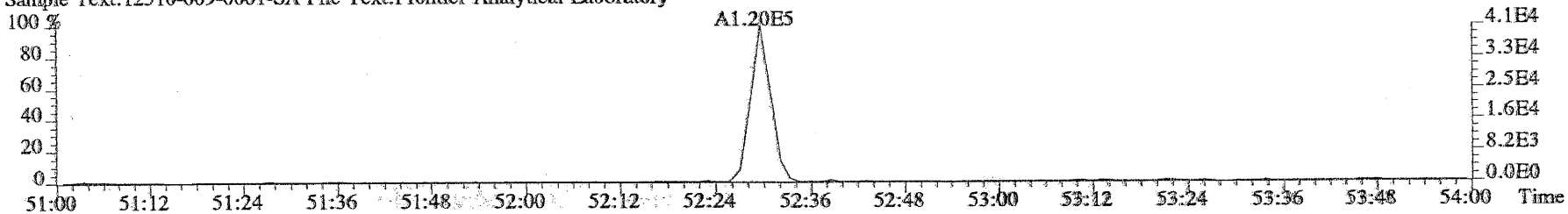
File:31JUL19Z #1-315 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



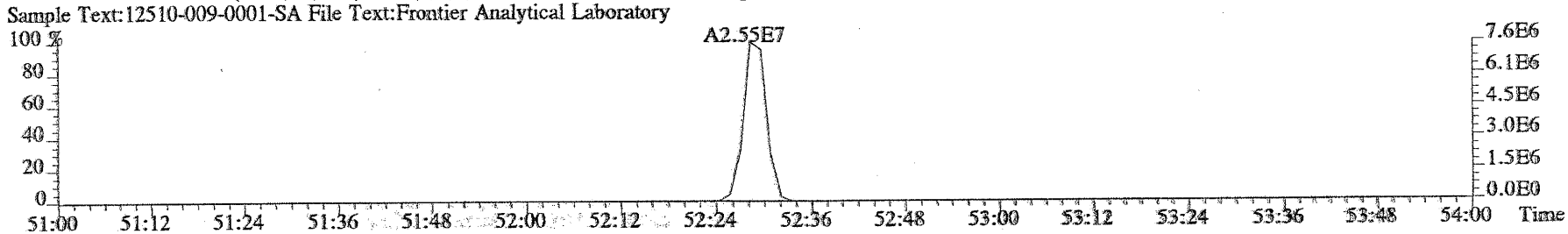
File:31JUL19Z #1-315 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



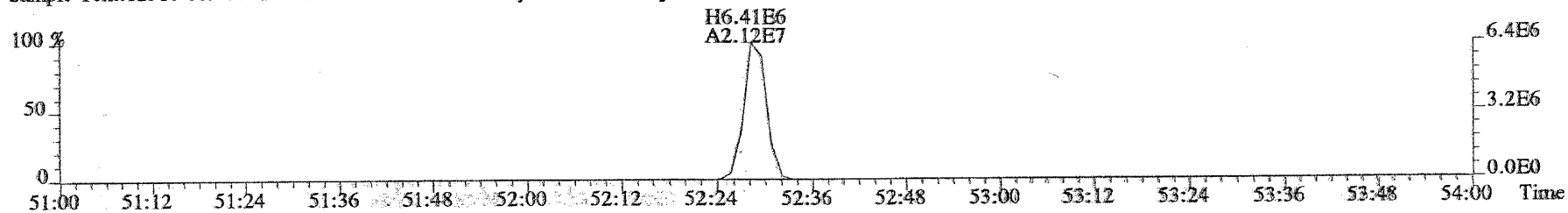
File:31JUL19Z #1-315 Acq: 1-AUG-2019 00:06:11 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq: 1-AUG-2019 00:06:11 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:12510-009-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq: 1-AUG-2019 00:06:11 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:12510-009-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12510-010-0001-SA Filename: 31JUL19Z Sam:14 Acquired: 1-AUG-19 01:04:32 ICal: DAILY209FAL4-7-31-19
Client ID: LDW-Y2-SU-ENR-CB-S010 ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	4.18e+05	2.98 y	14:33	1.20	35.2		-	-	*	
13C-PCB-1	9.88e+07	3.15 y	14:32	0.94	9670					96.7
PCB-2	5.60e+04	2.78 y	16:47	1.19	4.86	J	-	-	*	
PCB-3	9.50e+04	2.66 y	16:59	1.22	8.25	J	-	-	*	
13C-PCB-3	9.43e+07	3.15 y	16:58	0.88	9820					98.2
PCB-4	8.89e+06	1.51 y	18:14	1.16	1140		-	-	*	
PCB-10	1.10e+06	1.49 y	18:16	1.41	93.7		-	-	*	
13C-PCB-4	6.75e+07	1.55 y	18:12	0.67	9210					92.1
PCB-9	2.14e+06	1.44 y	19:54	1.44	178		-	-	*	
PCB-7	1.31e+06	1.49 y	19:56	1.43	110		-	-	*	
PCB-6	1.51e+07	1.57 y	20:32	1.49	1220		-	-	*	
PCB-8	2.86e+07	1.56 y	20:54	1.36	2530		-	-	*	
PCB-5	*	* n	NotFnd	1.45	*		974	8190	7.31	
PCB-14	6.45e+06	1.40 y	21:58	1.36	567		-	-	*	
PCB-11	1.19e+06	1.49 y	23:06	1.24	115		-	-	*	
PCB-13	6.77e+05	1.57 y	23:27	1.24	65.3		-	-	*	
PCB-12	6.75e+05	1.55 y	23:28	1.28	63.1		-	-	*	
PCB-15	5.49e+06	1.36 y	23:46	1.16	478		-	-	*	
13C-PCB-15	9.93e+07	1.61 y	23:45	0.91	9960					99.6
PCB-19	6.79e+06	1.05 y	22:07	1.16	1070		-	-	*	
PCB-30	*	* n	NotFnd	1.70	*		1620	524	2.09	
PCB-18	7.37e+07	1.04 y	23:39	1.12	12100		-	-	*	
PCB-17	3.48e+07	1.03 y	23:49	1.27	5050		-	-	*	
PCB-27	3.96e+06	0.98 y	24:21	1.62	451		-	-	*	
PCB-24	3.79e+06	1.14 y	24:22	1.68	416		-	-	*	
PCB-16	2.27e+07	1.01 y	24:50	1.38	3040		-	-	*	
PCB-32	2.61e+07	1.08 y	24:51	1.46	3280		-	-	*	
13C-PCB-19	5.43e+07	1.06 y	22:05	0.49	10100					101
13C-PCB-9	1.09e+08	1.59 y	19:53	-	64.5					
PCB-34	9.18e+05	1.03 y	25:36	1.23	89.3		-	-	*	
PCB-23	2.07e+05	1.01 y	25:40	1.39	17.8	J	-	-	*	
PCB-29	6.15e+05	1.04 y	25:56	1.33	55.3		-	-	*	
PCB-26	2.35e+07	1.03 y	26:08	1.26	2240		-	-	*	
PCB-25	1.20e+07	0.99 y	26:17	1.26	1140		-	-	*	
PCB-31	7.55e+07	1.16 y	26:37	1.19	7600		-	-	*	
PCB-28	7.86e+07	0.90 y	26:43	1.60	5890		-	-	*	
PCB-20	4.23e+07	1.02 y	27:19	1.25	4070		-	-	*	Co-elute PCB 21/33
PCB-21	4.23e+07	1.02 y	27:19	1.25	4070		-	-	*	Co-elute PCB 20/33
PCB-33	4.23e+07	1.02 y	27:19	1.25	4070		-	-	*	Co-elute PCB 20/21
PCB-22	2.43e+07	1.02 y	27:44	1.40	2090		-	-	*	
PCB-36	6.66e+06	1.05 y	28:19	1.24	643		-	-	*	
PCB-39	*	* n	NotFnd	1.25	*		2860	2120	5.79	
PCB-38	4.38e+05	0.93 y	29:29	1.27	41.4		-	-	*	
PCB-35	5.11e+05	1.01 y	30:00	1.14	53.6		-	-	*	
PCB-37	8.73e+06	1.03 y	30:24	1.21	866		-	-	*	
13C-PCB-37	8.35e+07	1.05 y	30:23	1.51	9040					90.4

PCB-54	3.55e+05	0.80	y	25:39	1.24	41.5	-	-	*	
PCB-50	3.59e+05	0.75	y	26:44	0.93	55.9	-	-	*	
PCB-53	1.13e+07	0.79	y	27:21	0.90	1830	-	-	*	
PCB-51	3.54e+06	0.78	y	27:41	0.96	535	-	-	*	
PCB-45	1.05e+07	0.80	y	28:05	0.79	1940	-	-	*	
PCB-46	4.06e+06	0.80	y	28:33	0.74	794	-	-	*	
PCB-52	7.21e+07	0.78	y	29:00	0.92	11300	-	-	*	Co-elute PCB 69
PCB-69	7.21e+07	0.78	y	29:00	0.92	11300	-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.13	*	2410	2330	5.92	
PCB-43	4.63e+07	0.79	y	29:17	0.82	8260	-	-	*	Co-elute PCB 49
PCB-49	4.63e+07	0.79	y	29:17	0.82	8260	-	-	*	Co-elute PCB 43
PCB-47	1.46e+07	0.86	y	29:29	0.81	2610	-	-	*	
PCB-48	1.40e+07	0.73	y	29:35	1.07	1890	-	-	*	Co-elute PCB 75
PCB-75	1.40e+07	0.73	y	29:35	1.07	1890	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.05	*	2410	2330	6.41	
PCB-62	*	*	n	NotFnd	1.06	*	2410	2330	6.34	
PCB-44	4.19e+07	0.78	y	30:13	0.69	8790	-	-	*	
PCB-42	1.94e+07	0.81	y	30:27	0.90	3130	-	-	*	Co-elute PCB 59
PCB-59	1.94e+07	0.81	y	30:27	0.90	3130	-	-	*	Co-elute PCB 42
PCB-72	4.89e+07	0.78	y	31:00	1.02	6980	-	-	*	Co-elute PCB 41/71/64
PCB-41	4.89e+07	0.78	y	31:00	1.02	6980	-	-	*	Co-elute PCB 72/71/64
PCB-71	4.89e+07	0.78	y	31:00	1.02	6980	-	-	*	Co-elute PCB 72/41/64
PCB-64	4.89e+07	0.78	y	31:00	1.02	6980	-	-	*	Co-elute PCB 72/41/71
PCB-68	6.96e+05	0.80	y	31:15	1.17	86.6	-	-	*	
PCB-40	6.89e+06	0.80	y	31:26	0.65	1530	-	-	*	
PCB-57	4.55e+05	0.77	y	31:47	1.07	61.6	-	-	*	
PCB-67	1.65e+06	0.78	y	32:04	1.03	234	-	-	*	
PCB-58	2.88e+05	0.82	y	32:12	1.14	36.6	-	-	*	
PCB-63	2.10e+06	0.79	y	32:21	1.07	285	-	-	*	
PCB-74	2.01e+07	0.78	y	32:36	1.06	2760	-	-	*	
PCB-61	4.21e+07	0.78	y	32:49	1.00	6110	-	-	*	Co-elute PCB 70
PCB-70	4.21e+07	0.78	y	32:49	1.00	6110	-	-	*	Co-elute PCB 61
PCB-76	3.64e+07	0.78	y	33:00	1.11	4760	-	-	*	Co-elute PCB 66
PCB-66	3.64e+07	0.78	y	33:00	1.11	4760	-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.29	*	2410	2330	5.18	
PCB-55	1.28e+06	0.82	y	33:32	1.13	165	-	-	*	
13C-PCB-54	6.88e+07	0.83	y	25:37	1.34	8380				83.8
PCB-104	1.24e+07	1.56	y	30:05	1.09	1900	-	-	*	
PCB-96	5.73e+05	1.56	y	31:16	1.05	92.2	-	-	*	
PCB-103	5.09e+05	1.67	y	31:47	0.84	102	-	-	*	
PCB-100	2.03e+05	1.38	y	32:07	0.85	40.2	-	-	*	
PCB-94	2.09e+05	1.60	y	32:33	0.70	50.5	-	-	*	
PCB-98	*	*	n	NotFnd	0.70	*	272	404	1.67	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.70	*	272	404	1.67	Co-elute PCB 98
PCB-95	3.02e+07	1.59	y	33:04	0.77	6620	-	-	*	
PCB-93	*	*	n	NotFnd	0.76	*	272	404	1.53	
PCB-88	*	*	n	NotFnd	0.78	*	272	404	1.49	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.78	*	272	404	1.49	Co-elute PCB 88
PCB-121	2.63e+07	1.58	y	33:32	0.97	4590	-	-	*	
13C-PCB-104	5.94e+07	1.57	y	30:04	1.08	8980				89.8
13C-PCB-28	9.34e+07	1.06	y	26:42	1.80	8470				84.7
13C-PCB-52	6.12e+07	0.80	y	28:58	-	75.4				

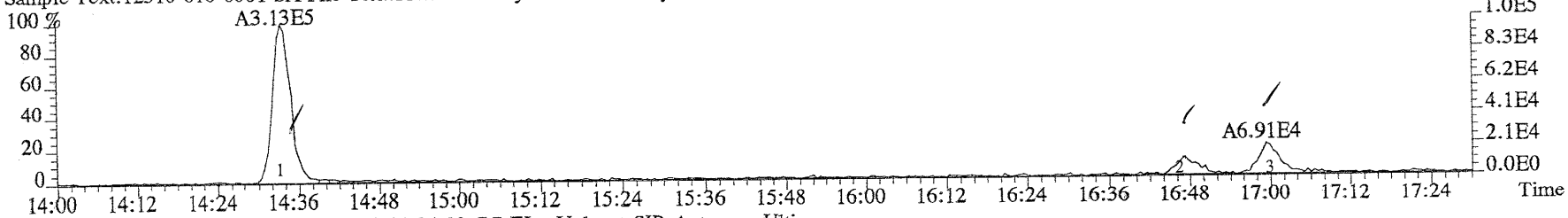
PCB-56	2.28e+07	0.78	y	33:59	1.15	2770		-	-	*	Co-elute PCB 60
PCB-60	2.28e+07	0.78	y	33:59	1.15	2770		-	-	*	Co-elute PCB 56
PCB-79	4.82e+05	0.69	y	34:60	1.22	55.1		-	-	*	
PCB-78	1.75e+07	0.80	y	35:40	1.19	2050		-	-	*	
PCB-81	9.16e+05	0.82	y	36:11	1.25	104		-	-	*	
13C-PCB-81	7.07e+07	0.80	y	36:09	1.49	8970					89.7
PCB-77	1.96e+06	0.78	y	36:43	1.08	251		-	-	*	
13C-PCB-77	7.21e+07	0.83	y	36:42	1.57	8720					87.2
PCB-155	2.23e+07	1.28	y	34:14	1.04	3430		-	-	*	
PCB-150	7.82e+04	1.37	y	35:26	0.98	12.8	J	-	-	*	
PCB-152	4.07e+04	1.31	y	35:53	0.95	6.86	J	-	-	*	
PCB-145	*	*	n	NotFnd	0.97	*		464	276	1.33	
PCB-136	4.56e+06	1.26	y	36:37	0.95	767		-	-	*	
PCB-148	*	*	n	NotFnd	0.70	*		464	276	1.86	
PCB-154	4.13e+05	1.19	y	37:10	0.81	81.7		-	-	*	
13C-PCB-155	6.26e+07	1.28	y	34:12	1.37	8680					86.8
13C-PCB-111	5.93e+07	1.60	y	36:17	1.21	9260					92.6
13C-PCB-101	5.28e+07	1.64	y	34:38	-	74.9					
PCB-84	1.61e+07	1.57	y	34:19	0.77	3290		-	-	*	Co-elute PCB 92
PCB-92	1.61e+07	1.57	y	34:19	0.77	3290		-	-	*	Co-elute PCB 84
PCB-89	6.98e+05	1.49	y	34:29	0.76	144		-	-	*	
PCB-90	3.63e+07	1.58	y	34:41	0.82	6940		-	-	*	Co-elute PCB 101
PCB-101	3.63e+07	1.58	y	34:41	0.82	6940		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.92	*		1290	1150	4.68	
PCB-99	1.56e+07	1.56	y	34:58	0.91	2690		-	-	*	
PCB-119	1.11e+06	1.42	y	35:25	1.01	172		-	-	*	
PCB-83	1.83e+06	1.48	y	35:35	0.82	348		-	-	*	Co-elute PCB 112
PCB-112	1.83e+06	1.48	y	35:35	0.82	348		-	-	*	Co-elute PCB 83
PCB-109	5.63e+04	1.68	y	35:44	1.00	8.85	J	-	-	*	
PCB-97	9.49e+06	1.58	y	35:54	0.69	2160		-	-	*	
PCB-86	*	*	n	NotFnd	0.72	*		1290	1150	6.00	
PCB-125	1.36e+07	1.57	y	36:11	0.90	2360		-	-	*	Co-elute PCB 87/117
PCB-87	1.36e+07	1.57	y	36:11	0.90	2360		-	-	*	Co-elute PCB 125/117
PCB-117	1.36e+07	1.57	y	36:11	0.90	2360		-	-	*	Co-elute PCB 125/87
PCB-111	6.61e+05	1.57	y	36:19	1.01	102		-	-	*	Co-elute PCB 115
PCB-115	6.61e+05	1.57	y	36:19	1.01	102		-	-	*	Co-elute PCB 111
PCB-85	5.21e+06	1.56	y	36:26	0.91	902		-	-	*	Co-elute PCB 116
PCB-116	5.21e+06	1.56	y	36:26	0.91	902		-	-	*	Co-elute PCB 85
PCB-120	1.49e+05	1.49	y	36:38	1.04	22.3		-	-	*	
PCB-110	4.05e+07	1.57	y	36:48	1.03	6190		-	-	*	
PCB-82	3.07e+06	1.57	y	37:24	0.60	796		-	-	*	
PCB-124	1.17e+06	1.55	y	38:03	1.21	151		-	-	*	
PCB-108	2.06e+06	1.55	y	38:13	1.14	283		-	-	*	Co-elute PCB 107
PCB-107	2.06e+06	1.55	y	38:13	1.14	283		-	-	*	Co-elute PCB 108
PCB-123	4.85e+05	1.58	y	38:22	1.04	76.6		-	-	*	
13C-PCB-123	6.07e+07	1.57	y	38:20	1.28	8940					89.4
PCB-118	2.33e+07	1.55	y	38:31	1.10	3140		-	-	*	Co-elute PCB 106
PCB-106	2.33e+07	1.55	y	38:31	1.10	3140		-	-	*	Co-elute PCB 118
13C-PCB-118	6.73e+07	1.60	y	38:30	1.39	9090					90.9
PCB-114	6.60e+05	1.70	y	39:09	1.23	82.6		-	-	*	
13C-PCB-114	6.48e+07	1.57	y	39:08	1.31	9300					93.0
PCB-122	3.21e+05	1.77	y	39:16	1.12	45.0		-	-	*	
PCB-105	8.41e+06	1.51	y	39:57	1.19	1130		-	-	*	
13C-PCB-105	6.24e+07	1.58	y	39:57	1.32	8880					88.8

PCB-127	*	*	n	NotFnd	1.09	*		1080	1210	3.71	
PCB-126	9.94e+04	1.35	y	42:05	1.12	15.2	J	-	-	*	
13C-PCB-126	5.87e+07	1.57	y	42:04	1.25	8830					88.3
PCB-151	5.11e+06	1.24	y	37:47	0.91	1010		-	-	*	
PCB-135	3.11e+06	1.28	y	38:00	0.86	656		-	-	*	
PCB-144	1.20e+06	1.23	y	38:07	1.09	199		-	-	*	
PCB-147	4.90e+05	1.22	y	38:13	1.01	87.6		-	-	*	
PCB-139	1.96e+07	1.24	y	38:28	1.04	3400		-	-	*	Co-elute PCB 149
PCB-149	1.96e+07	1.24	y	38:28	1.04	3400		-	-	*	Co-elute PCB 139
PCB-140	2.14e+05	1.35	y	38:38	1.03	37.5		-	-	*	
PCB-143	1.27e+06	1.21	y	39:04	0.84	274		-	-	*	Co-elute PCB 134
PCB-134	1.27e+06	1.21	y	39:04	0.84	274		-	-	*	Co-elute PCB 143
PCB-131	5.68e+05	1.25	y	39:21	0.85	121		-	-	*	Co-elute PCB 133
PCB-133	5.68e+05	1.25	y	39:21	0.85	121		-	-	*	Co-elute PCB 131
PCB-142	5.03e+07	1.26	y	39:29	0.85	10700		-	-	*	
PCB-165	3.41e+06	1.23	y	39:42	1.12	550		-	-	*	Co-elute PCB 146
PCB-146	3.41e+06	1.23	y	39:42	1.12	550		-	-	*	Co-elute PCB 165
PCB-161	6.53e+06	1.20	y	39:59	1.04	1140		-	-	*	Co-elute PCB 132
PCB-132	6.53e+06	1.20	y	39:59	1.04	1140		-	-	*	Co-elute PCB 161
PCB-153	2.00e+07	1.24	y	40:05	1.16	3120		-	-	*	
PCB-168	*	*	n	NotFnd	1.25	*		1130	1280	3.87	
PCB-141	3.31e+06	1.22	y	40:46	0.94	638		-	-	*	
PCB-137	7.20e+05	1.23	y	41:09	0.86	151		-	-	*	
PCB-130	1.25e+06	1.30	y	41:14	0.90	252		-	-	*	
PCB-138	2.04e+07	1.24	y	41:36	1.13	3270		-	-	*	Co-elute PCB 163/164
PCB-163	2.04e+07	1.24	y	41:36	1.13	3270		-	-	*	Co-elute PCB 138/164
PCB-164	2.04e+07	1.24	y	41:36	1.13	3270		-	-	*	Co-elute PCB 138/163
PCB-158	2.49e+06	1.25	y	41:49	1.25	362		-	-	*	Co-elute PCB 160
PCB-160	2.49e+06	1.25	y	41:49	1.25	362		-	-	*	Co-elute PCB 158
PCB-129	7.91e+05	1.18	y	42:04	0.81	177		-	-	*	
PCB-166	*	*	n	NotFnd	1.18	*		1130	1280	4.07	
PCB-159	1.67e+05	1.19	y	42:52	1.27	23.8		-	-	*	
PCB-128	2.82e+06	1.25	y	43:05	1.05	489		-	-	*	Co-elute PCB 162
PCB-162	2.82e+06	1.25	y	43:05	1.05	489		-	-	*	Co-elute PCB 128
PCB-167	6.90e+05	1.23	y	43:26	1.15	105		-	-	*	
13C-PCB-167	5.75e+07	1.27	y	43:26	1.14	9500					95.0
PCB-156	1.65e+06	1.26	y	44:40	1.21	252		-	-	*	
13C-PCB-156	5.42e+07	1.29	y	44:39	1.12	9080					90.8
PCB-157	3.88e+05	1.19	y	44:57	1.17	59.4		-	-	*	
13C-PCB-157	5.61e+07	1.29	y	44:55	1.15	9160					91.6
PCB-169	*	*	n	NotFnd	1.10	*		1130	1280	4.01	
13C-PCB-169	5.35e+07	1.25	y	46:47	1.07	9360					93.6

PCB-188	8.33e+04	1.17	y	39:44	1.05	13.7	J	-	-	*	
13C-PCB-188	5.79e+07	1.06	y	39:42	1.18	9260					92.6
PCB-184	3.15e+07	1.05	y	40:09	1.20	5000		-	-	*	
PCB-179	2.17e+06	1.09	y	40:53	1.13	368		-	-	*	
PCB-176	6.95e+05	1.00	y	41:19	1.10	121		-	-	*	
PCB-186	*	*	n	NotFnd	1.11	*		608	380	1.56	
PCB-178	6.21e+05	1.11	y	42:22	0.76	157		-	-	*	
PCB-175	1.42e+05	0.94	y	42:42	0.77	35.4		-	-	*	
PCB-187	3.82e+06	1.06	y	42:50	0.87	837		-	-	*	Co-elute PCB 182
PCB-182	3.82e+06	1.06	y	42:50	0.87	837		-	-	*	Co-elute PCB 187
PCB-183	1.85e+06	1.05	y	43:10	0.86	412		-	-	*	
PCB-185	3.34e+05	1.08	y	43:47	0.77	82.4		-	-	*	
PCB-174	2.84e+06	1.03	y	44:07	0.79	688		-	-	*	
PCB-181	*	*	n	NotFnd	0.78	*		608	380	2.23	
PCB-177	1.55e+06	1.03	y	44:24	0.70	423		-	-	*	
PCB-171	7.01e+05	1.01	y	44:40	0.77	174		-	-	*	
PCB-173	6.94e+04	1.18	y	45:05	0.68	19.4	J	-	-	*	
PCB-172	8.06e+05	1.00	y	45:26	0.72	215		-	-	*	
PCB-192	1.97e+07	1.04	y	45:38	0.97	3880		-	-	*	
PCB-180	4.83e+06	1.07	y	45:49	0.75	1230		-	-	*	
PCB-193	3.93e+05	0.94	y	45:59	1.05	71.4		-	-	*	
PCB-191	1.26e+05	0.99	y	46:11	0.99	24.3		-	-	*	
PCB-170	1.82e+06	1.00	y	47:07	0.71	486		-	-	*	
PCB-190	5.23e+05	1.15	y	47:15	0.96	104		-	-	*	
PCB-189	8.09e+04	0.97	y	48:27	1.00	17.3	J	-	-	*	
13C-PCB-189	4.68e+07	1.05	y	48:26	1.01	8720					87.2
PCB-202	2.63e+05	0.93	y	44:50	1.02	57.3		-	-	*	
PCB-201	1.73e+05	0.91	y	45:18	1.10	34.8		-	-	*	
PCB-204	4.70e+07	0.88	y	45:26	1.11	9380		-	-	*	
PCB-197	3.04e+05	0.89	y	45:41	1.15	58.9		-	-	*	
PCB-200	1.67e+05	0.88	y	46:27	1.11	33.3		-	-	*	
PCB-198	4.40e+04	0.97	y	47:38	0.78	12.6	J	-	-	*	
PCB-199	7.42e+05	0.81	y	47:43	0.74	221		-	-	*	
PCB-203	9.02e+05	0.89	y	47:58	0.83	240		-	-	*	Co-elute PCB 196
PCB-196	9.02e+05	0.89	y	47:58	0.83	240		-	-	*	Co-elute PCB 203
13C-PCB-202	4.51e+07	0.91	y	44:48	0.95	8970					89.7
13C-PCB-178	3.80e+07	1.04	y	42:20	0.80	8960					89.6
13C-PCB-138	5.32e+07	1.27	y	41:34	-	71.5					
PCB-195	3.06e+05	0.86	y	49:03	0.78	83.6		-	-	*	
PCB-194	7.18e+05	0.85	y	49:51	0.86	179		-	-	*	
PCB-205	5.64e+04	0.81	y	50:06	1.09	11.1	J	-	-	*	
13C-PCB-205	4.70e+07	0.89	y	50:06	1.29	9150					91.5
PCB-208	8.94e+04	1.39	y	49:11	1.05	18.1	J	-	-	*	
13C-PCB-208	4.70e+07	0.82	y	49:10	1.15	10200					102
PCB-207	2.14e+05	1.30	y	49:27	1.23	43.3		-	-	*	
PCB-206	1.88e+05	1.38	y	51:18	1.08	52.2		-	-	*	
13C-PCB-206	3.32e+07	0.80	y	51:18	0.88	9500					95.0
PCB-209	2.69e+05	1.18	y	52:30	1.13	55.5		-	-	*	
13C-PCB-209	4.28e+07	1.21	y	52:29	1.08	9970					99.7
13C-PCB-194	3.98e+07	0.91	y	49:51	-	55.4					

Analyst: _____ Date: 8/1/19

File:31JUL19Z #1-783 Acq: 1-AUG-2019 01:04:32 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:12510-010-0001-SA File Text:Frontier Analytical Laboratory



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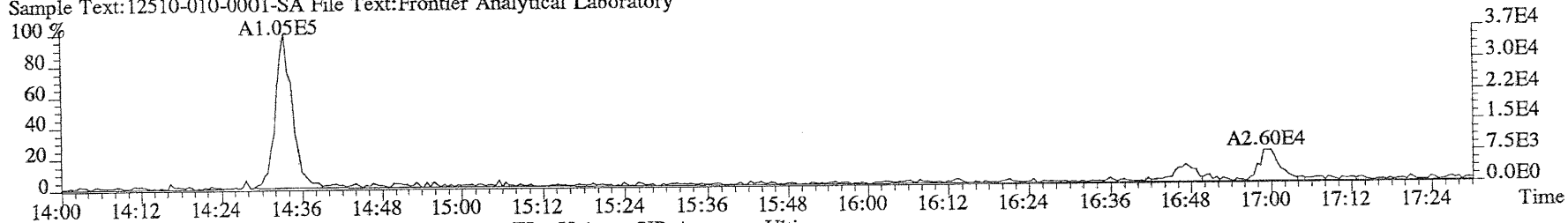

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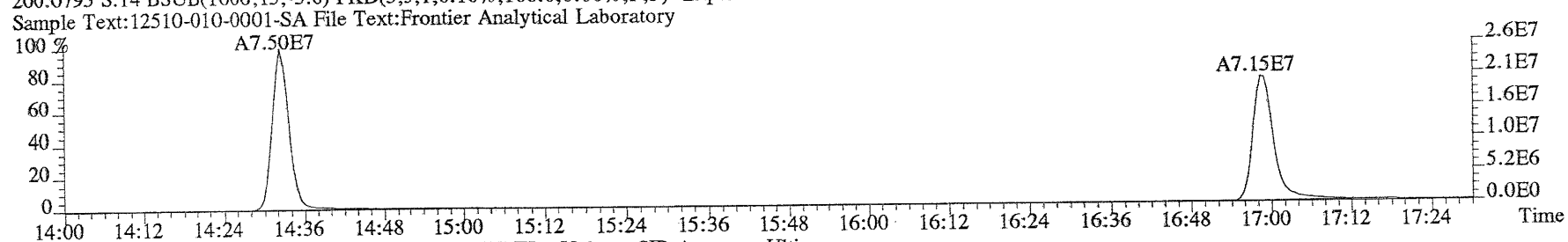

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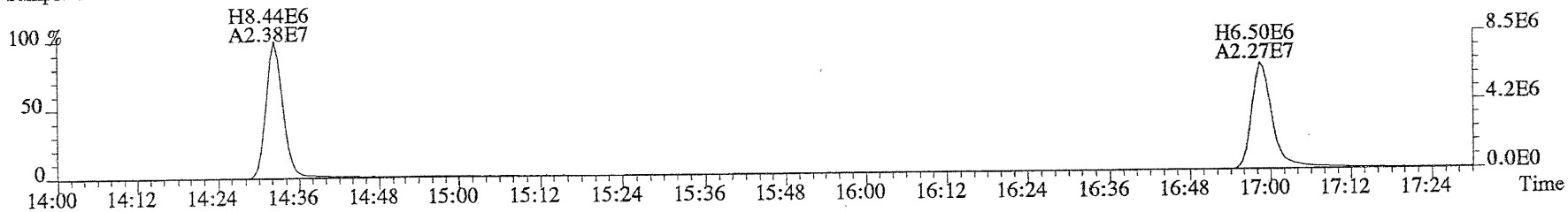

File:31JUL19Z #1-520 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
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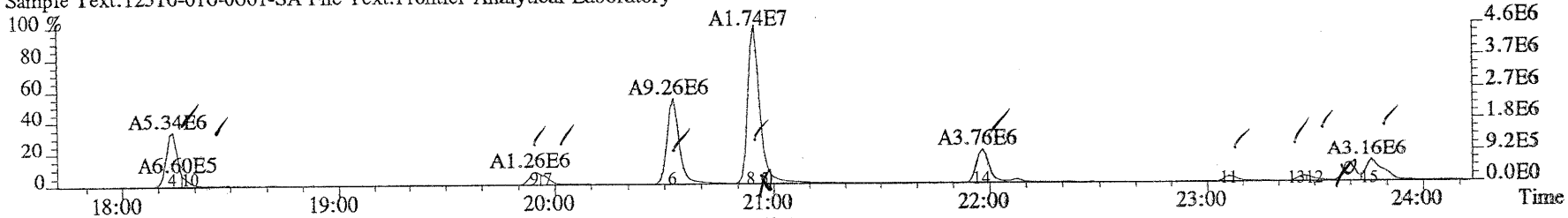

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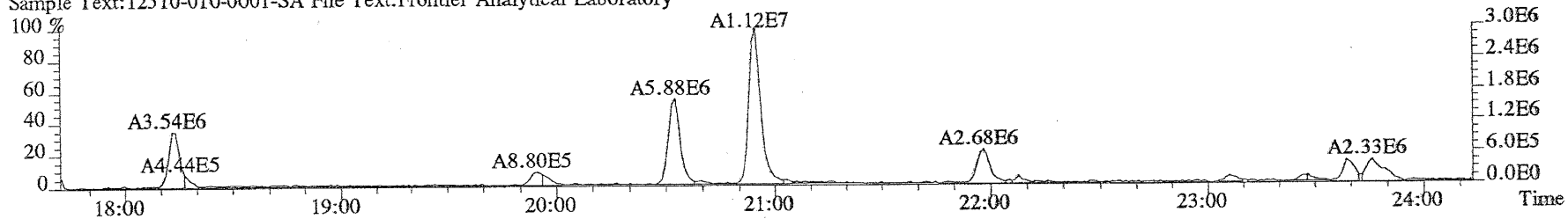
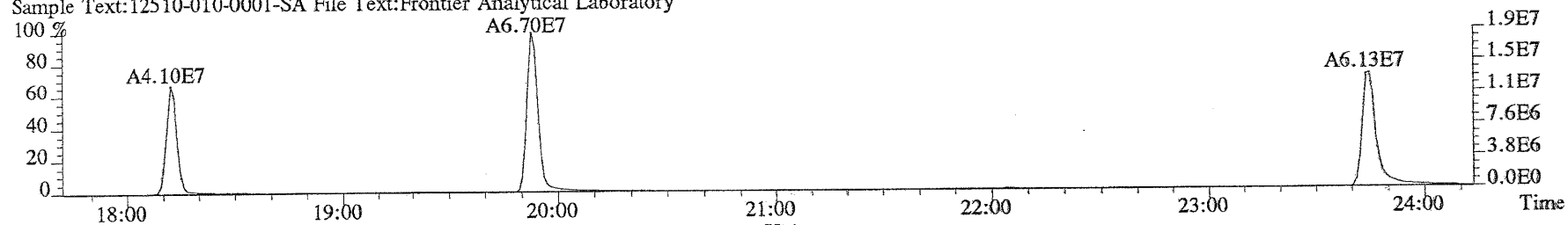
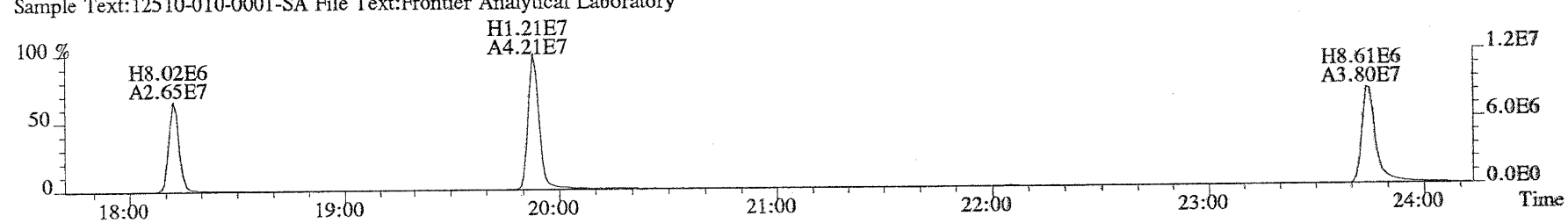
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



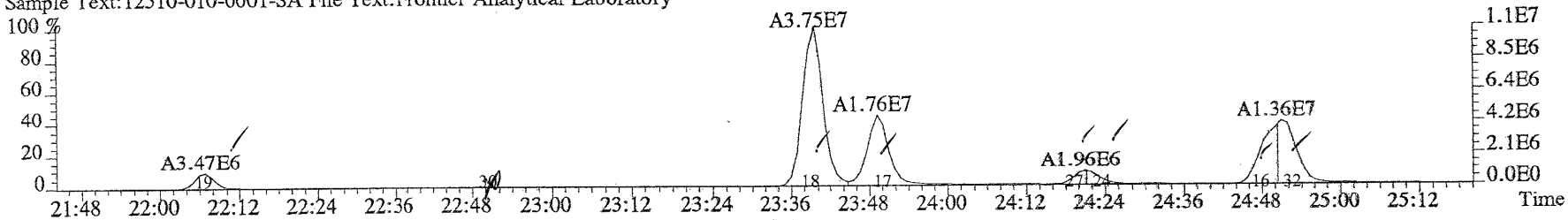
File:31JUL19Z #1-520 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



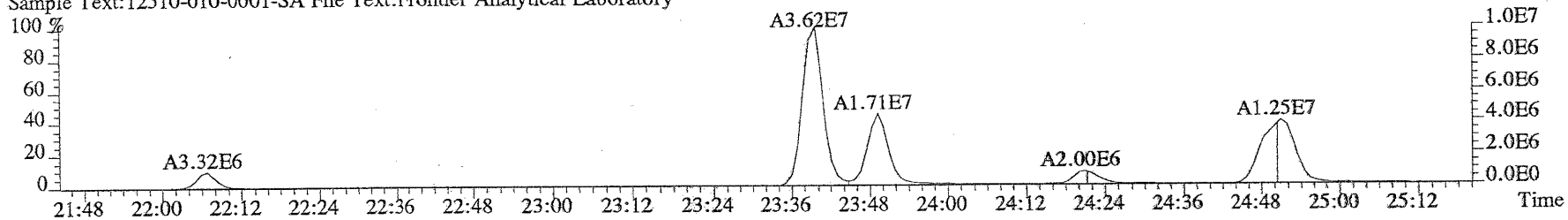
File:31JUL19Z #1-520 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



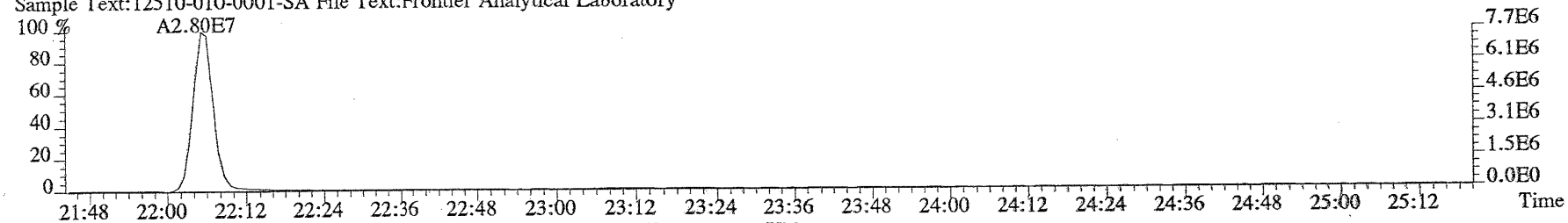
File:31JUL19Z #1-520 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



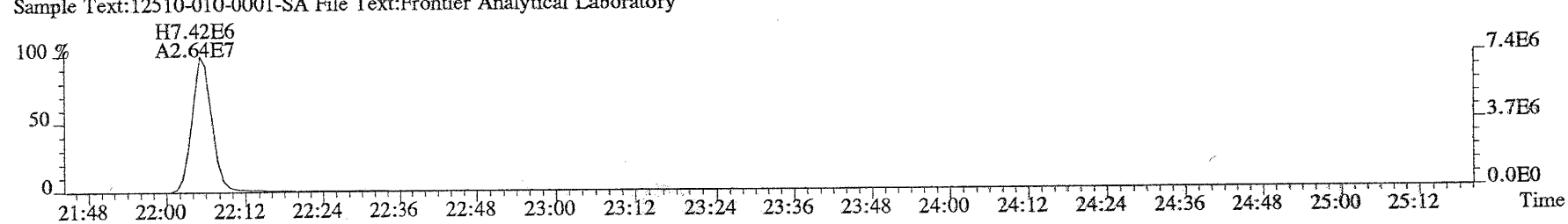
File:31JUL19Z #1-520 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



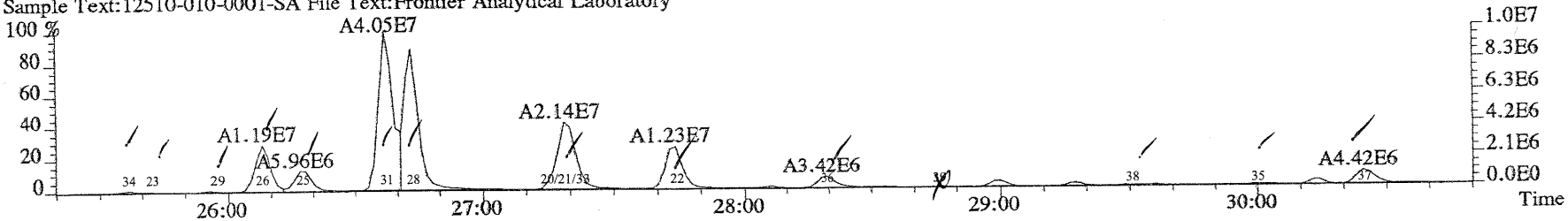
File:31JUL19Z #1-520 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



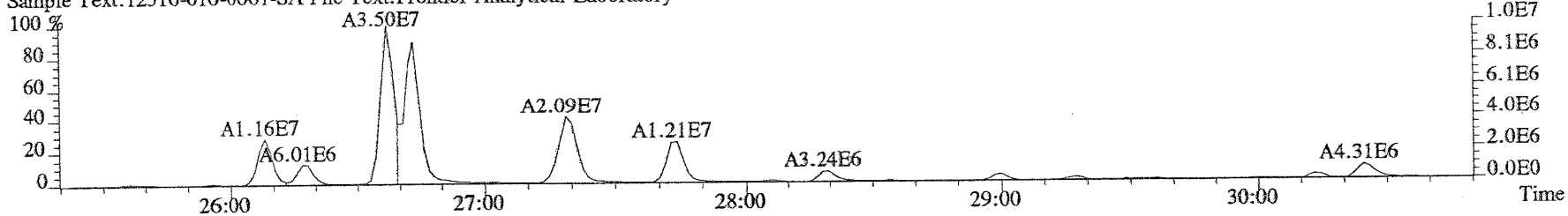
File:31JUL19Z #1-520 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



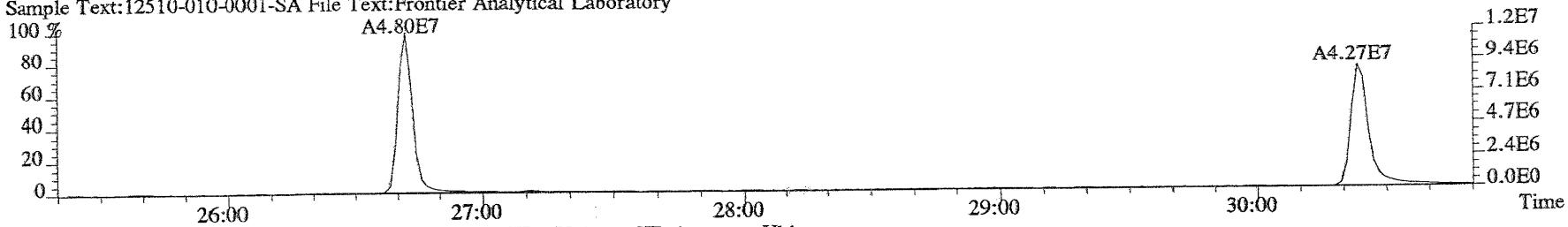
File:31JUL19Z #1-402 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-402 Acq: 1-AUG-2019 01:04:32 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:12510-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-402 Acq: 1-AUG-2019 01:04:32 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:12510-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-402 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
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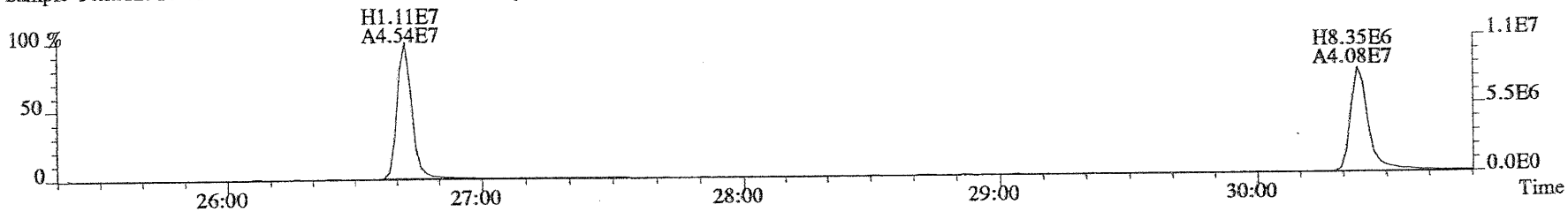
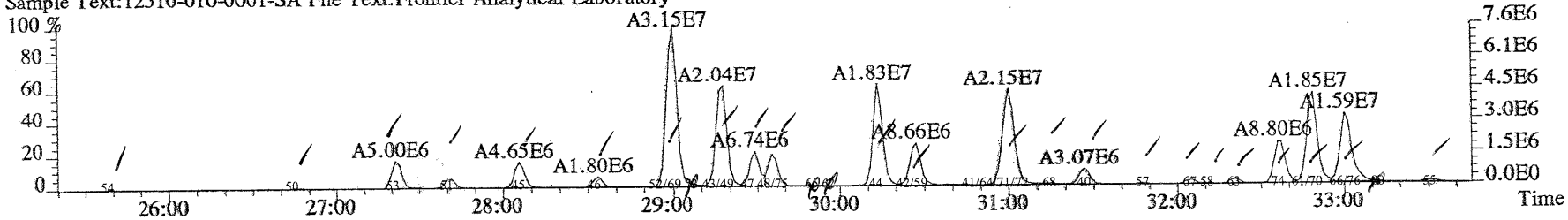
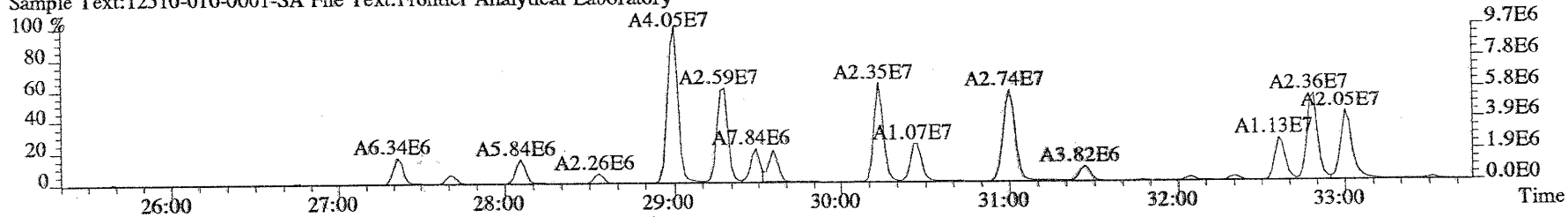
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



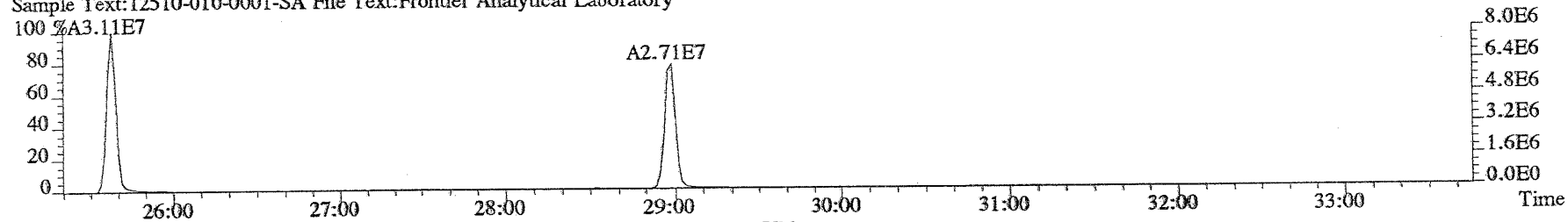
File:31JUL19Z #1-402 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



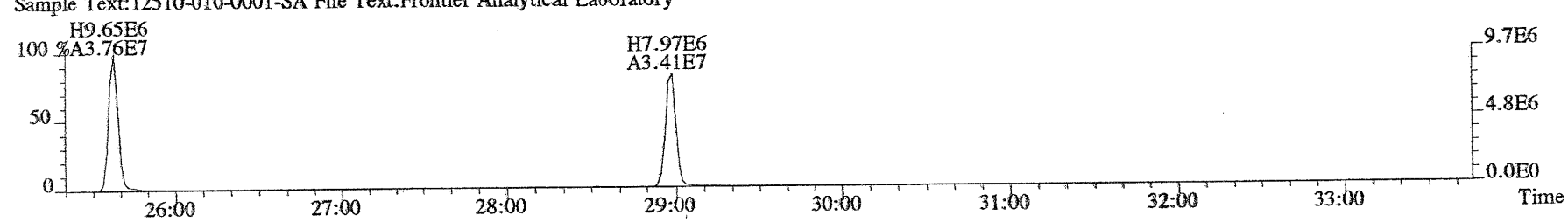
File:31JUL19Z #1-402 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



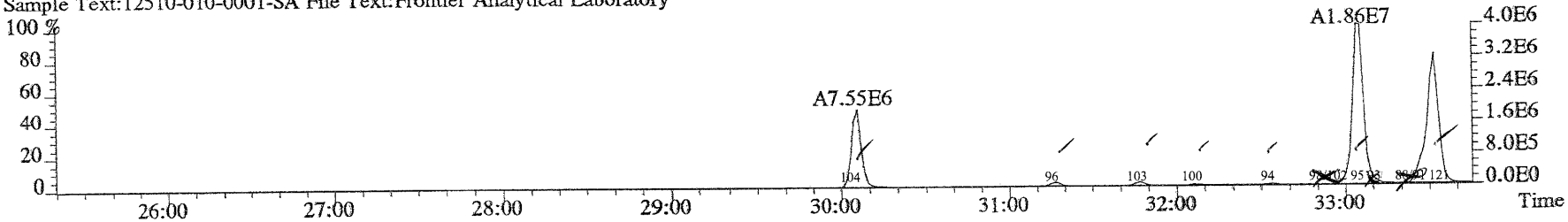
File:31JUL19Z #1-402 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



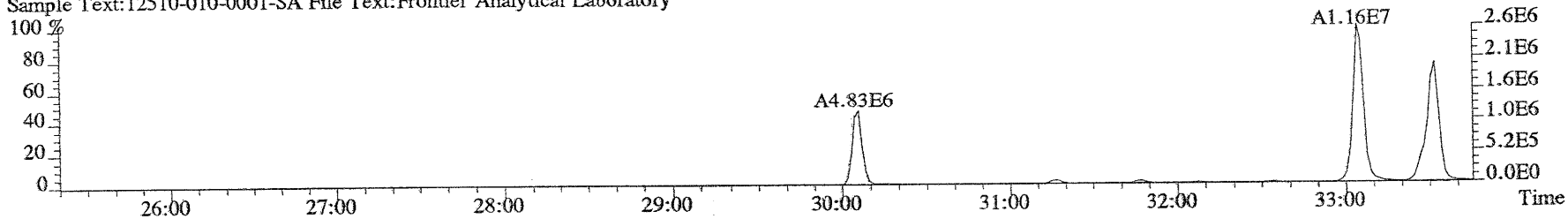
File:31JUL19Z #1-402 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



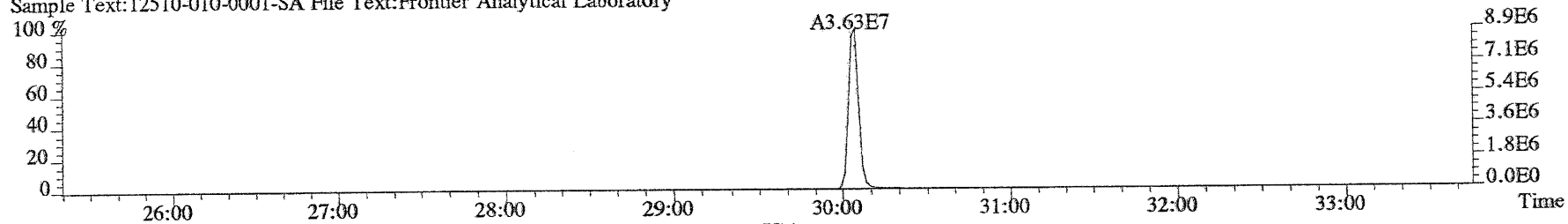
File:31JUL19Z #1-402 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



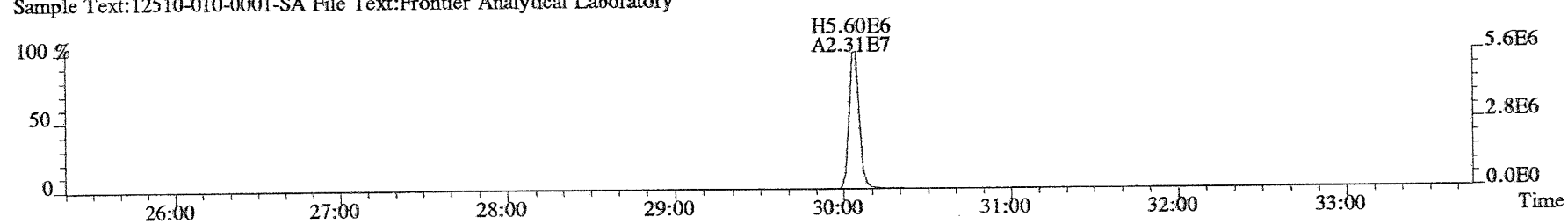
File:31JUL19Z #1-402 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



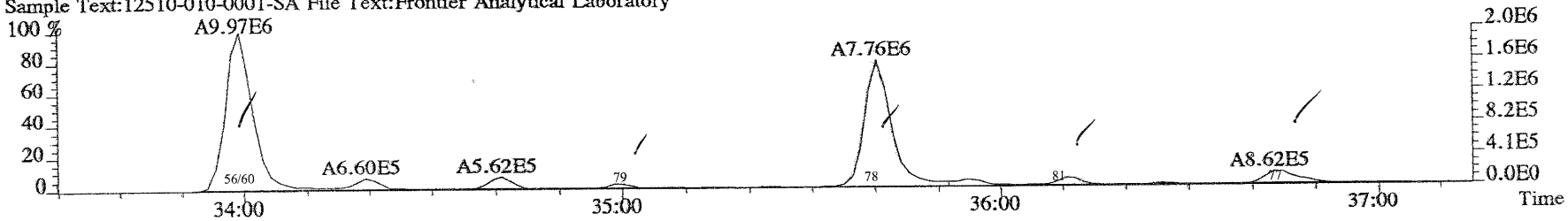
File:31JUL19Z #1-402 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



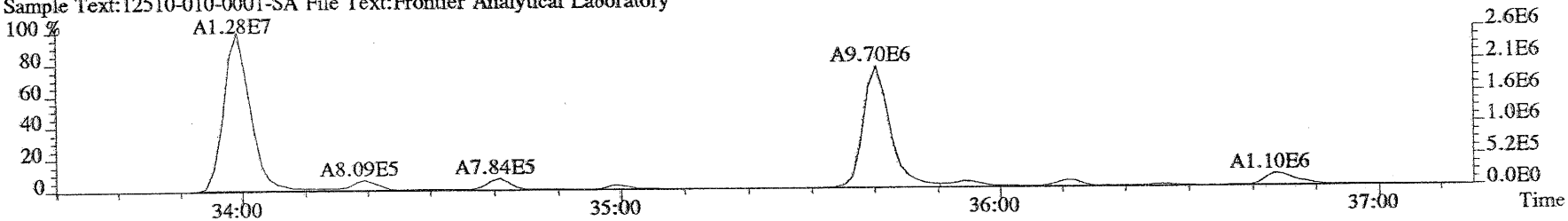
File:31JUL19Z #1-402 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



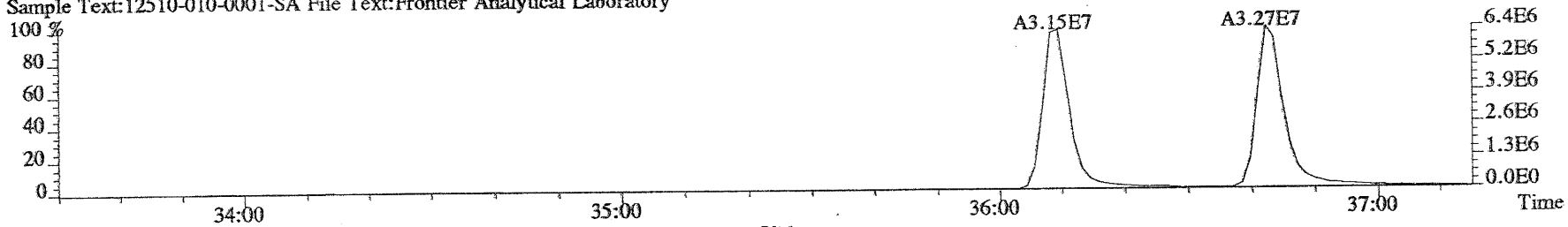
File:31JUL19Z #1-180 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



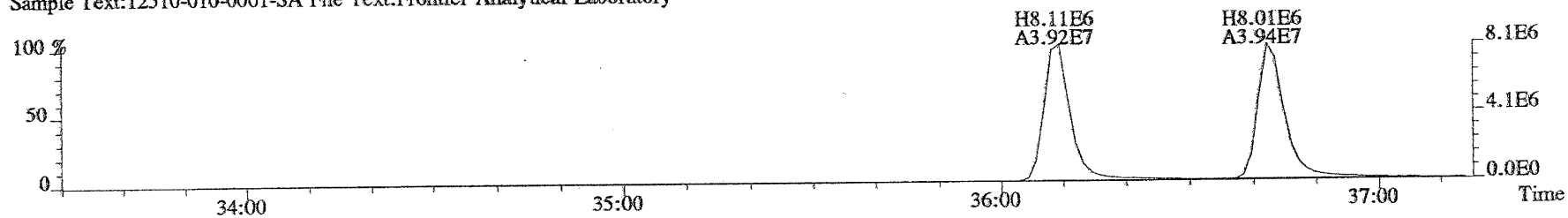
File:31JUL19Z #1-180 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



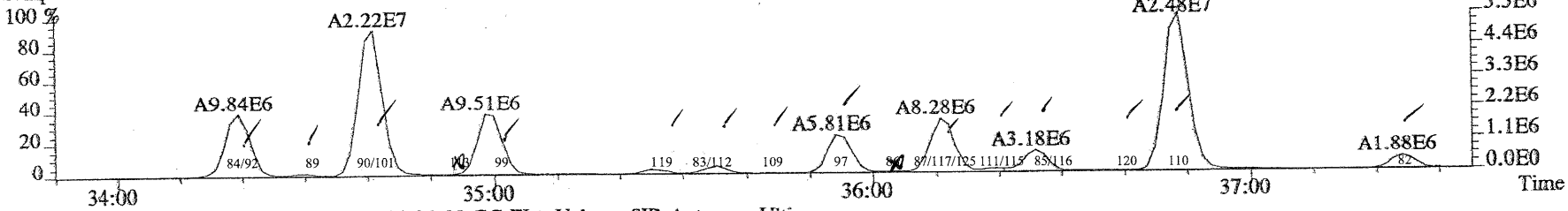
File:31JUL19Z #1-180 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



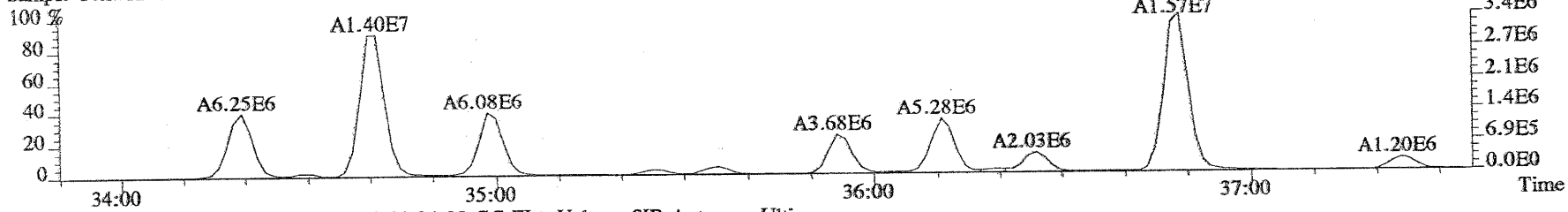
File:31JUL19Z #1-180 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



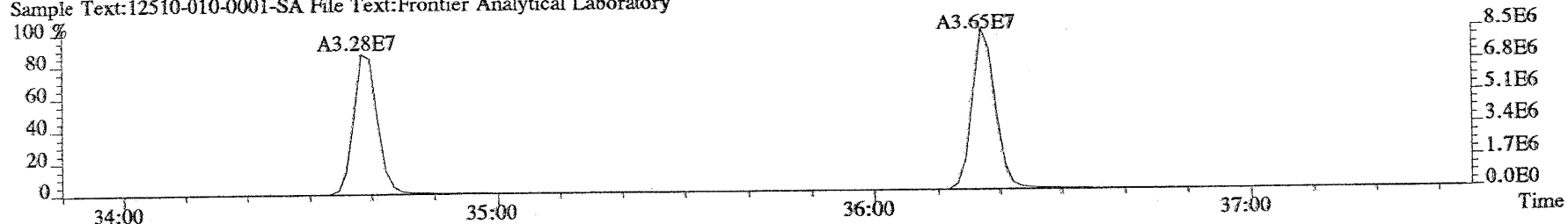
File:31JUL19Z #1-180 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



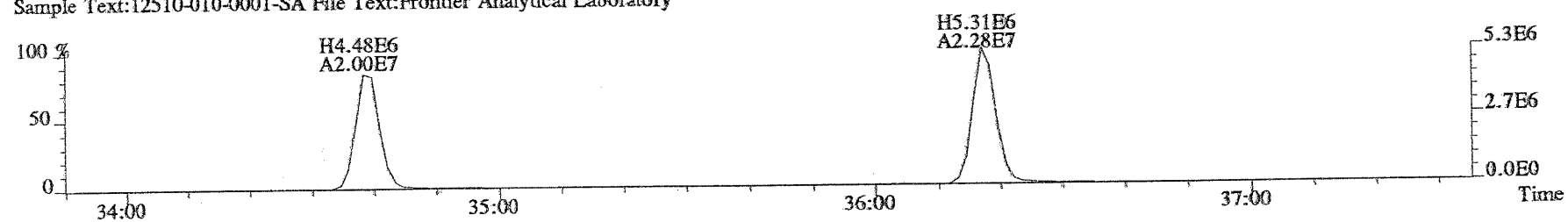
File:31JUL19Z #1-180 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



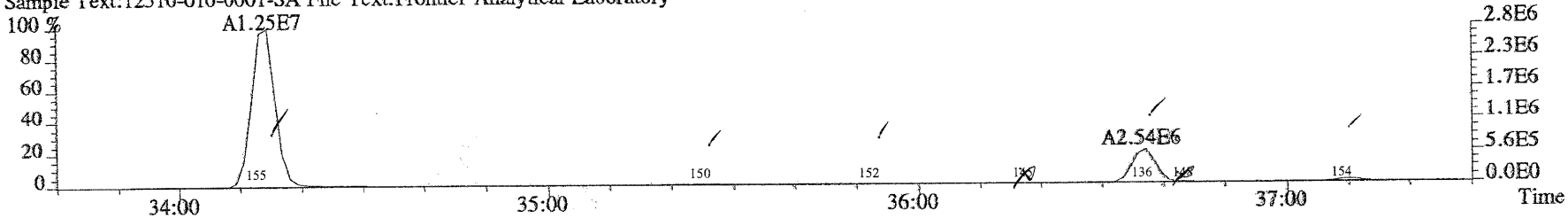
File:31JUL19Z #1-180 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



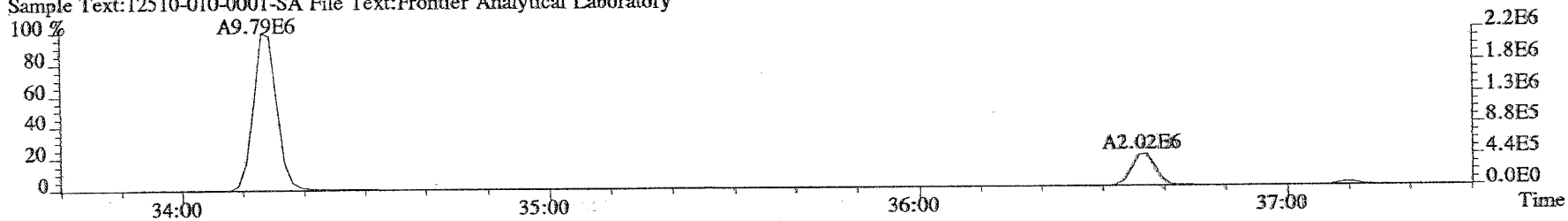
File:31JUL19Z #1-180 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



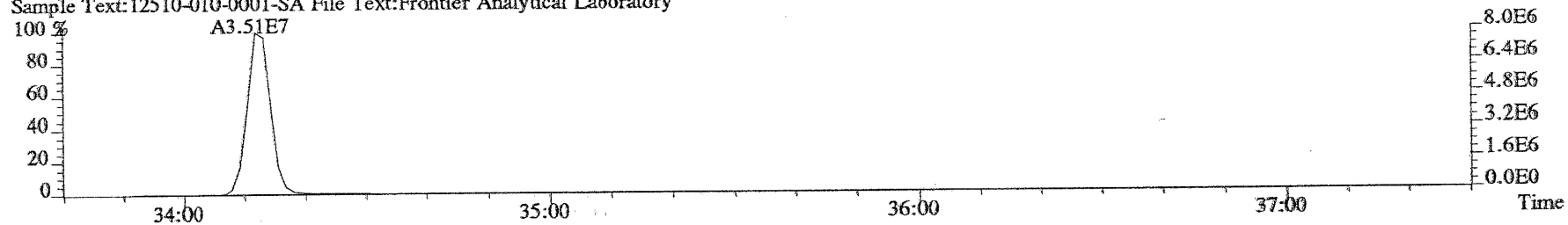
File:31JUL19Z #1-180 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



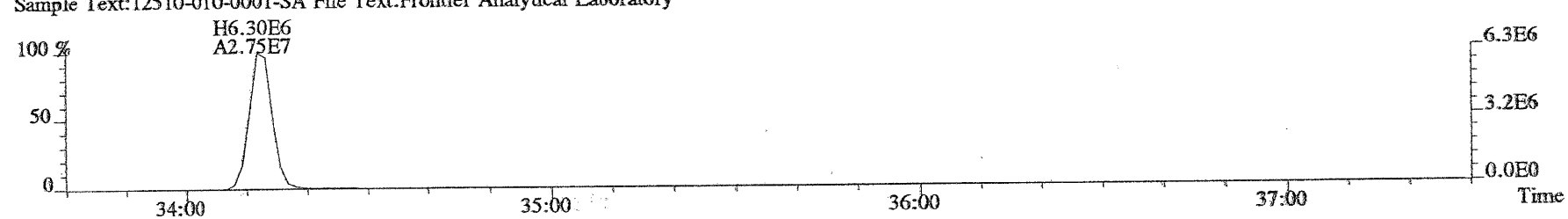
File:31JUL19Z #1-180 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



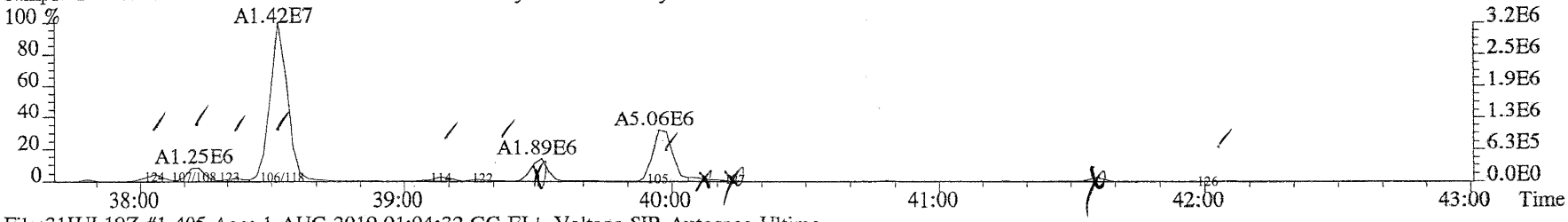
File:31JUL19Z #1-180 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



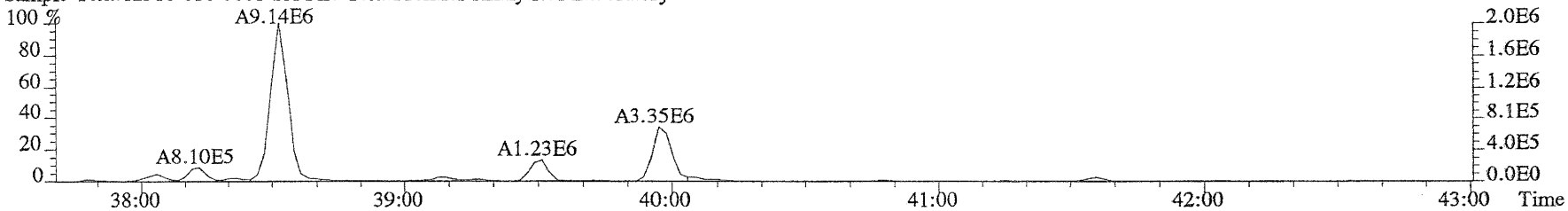
File:31JUL19Z #1-180 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



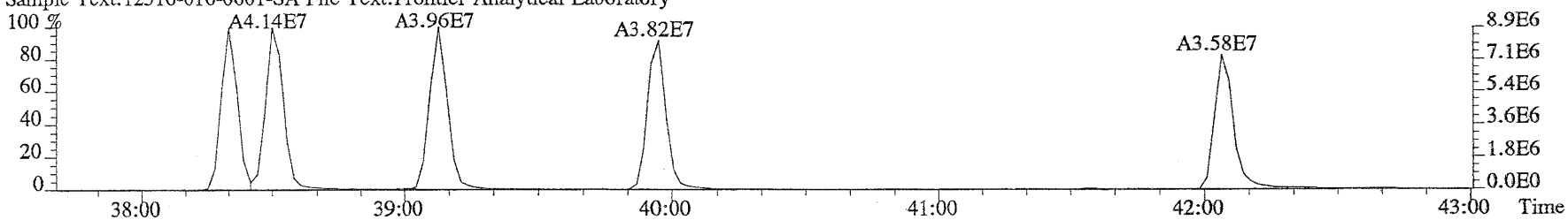
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



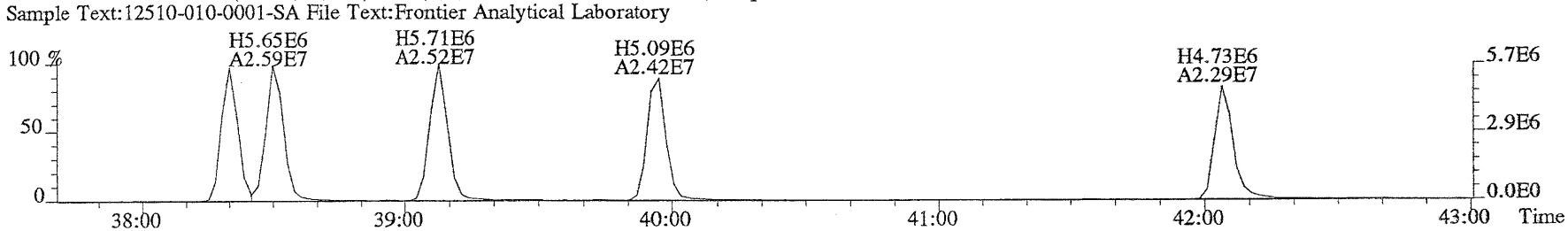
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



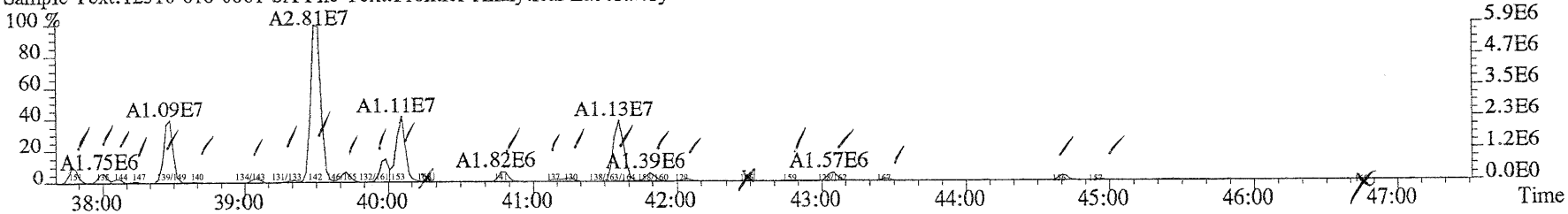
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



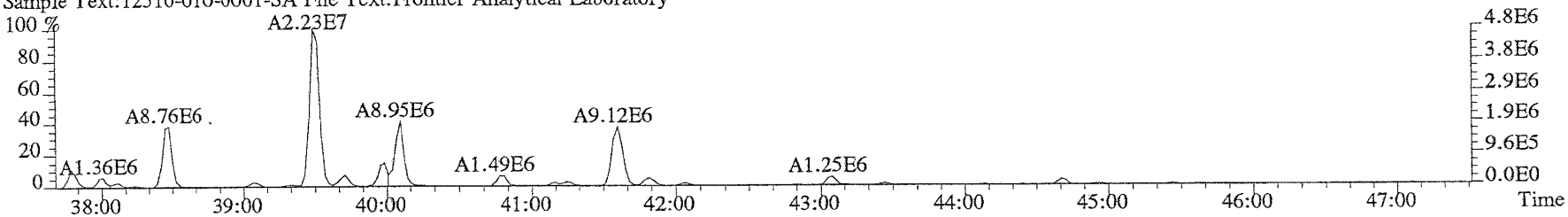
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



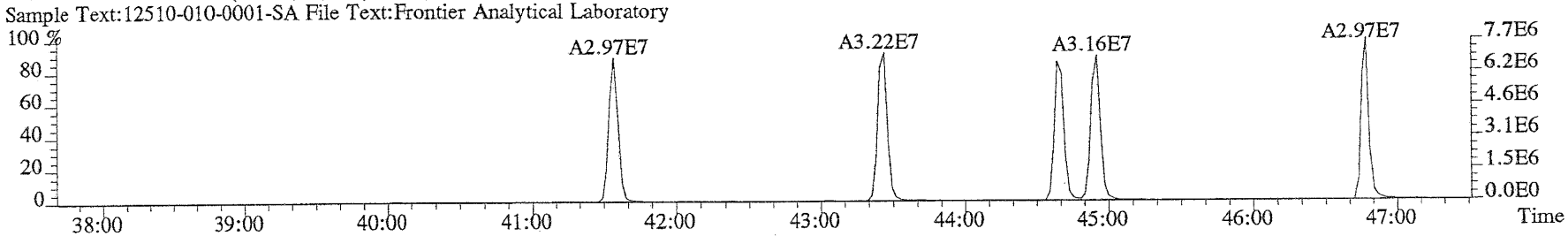
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



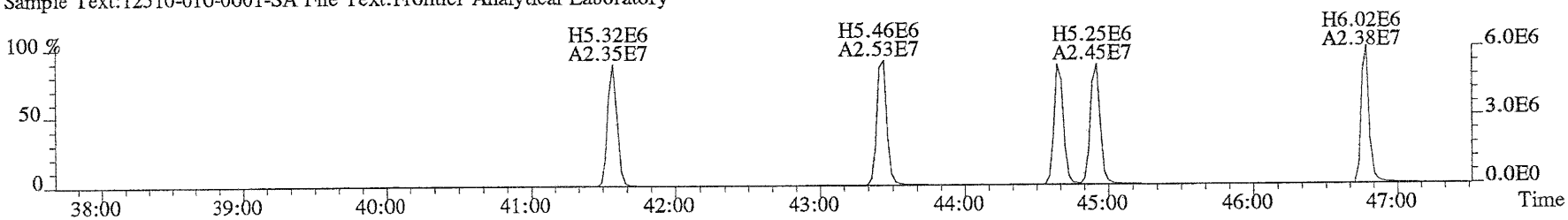
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



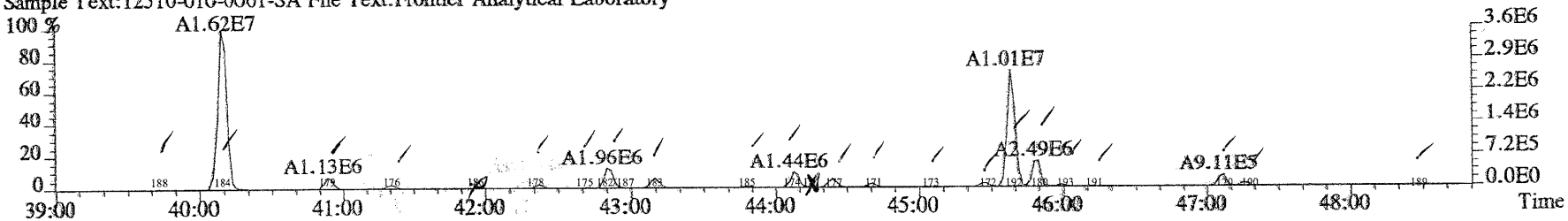
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



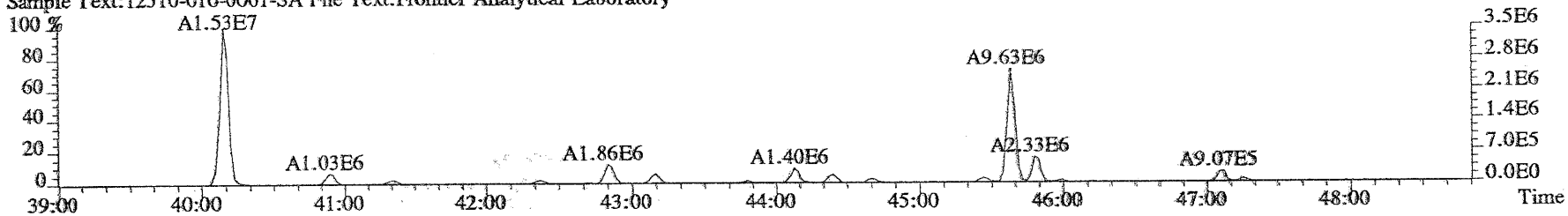
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:14 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



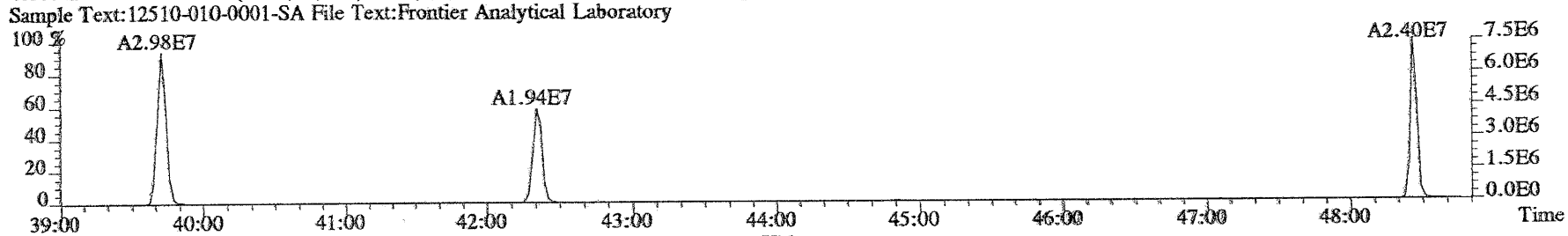
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



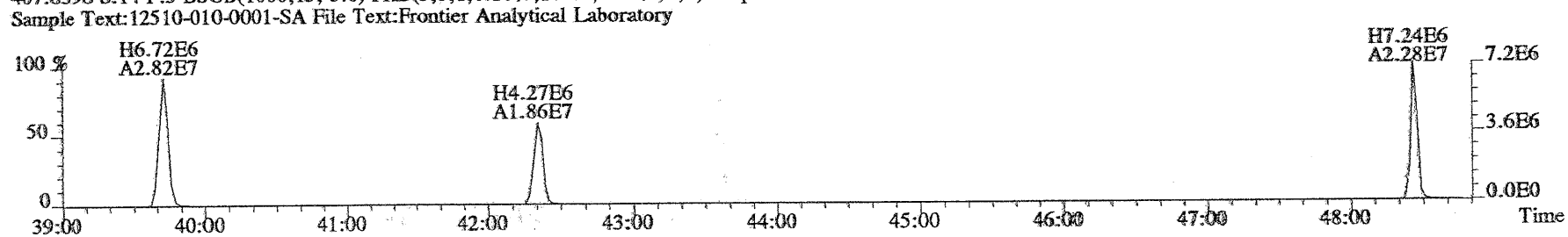
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



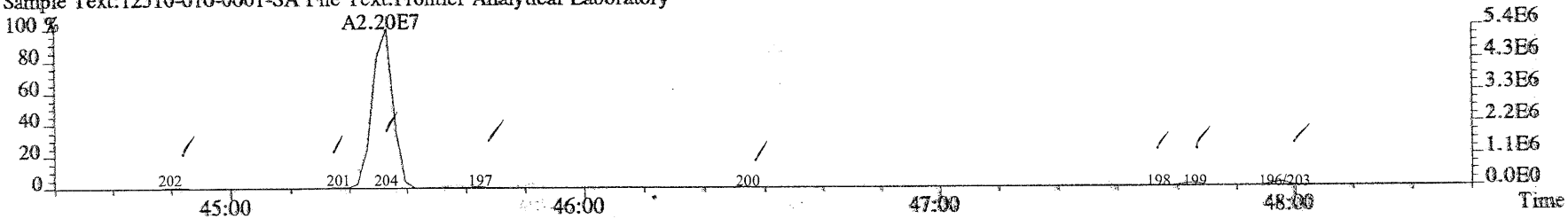
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



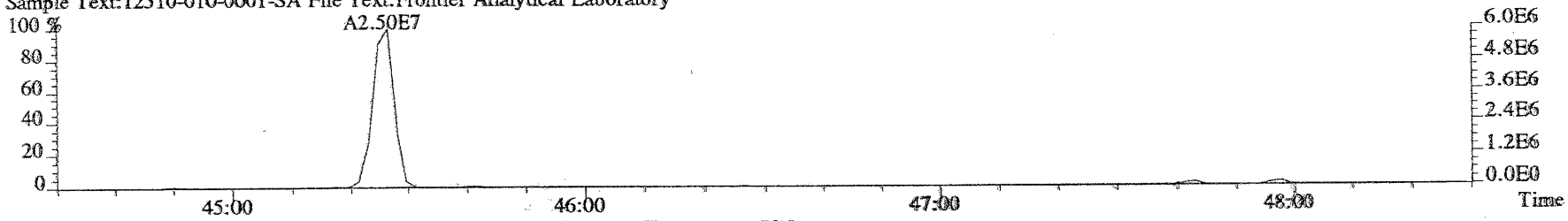
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



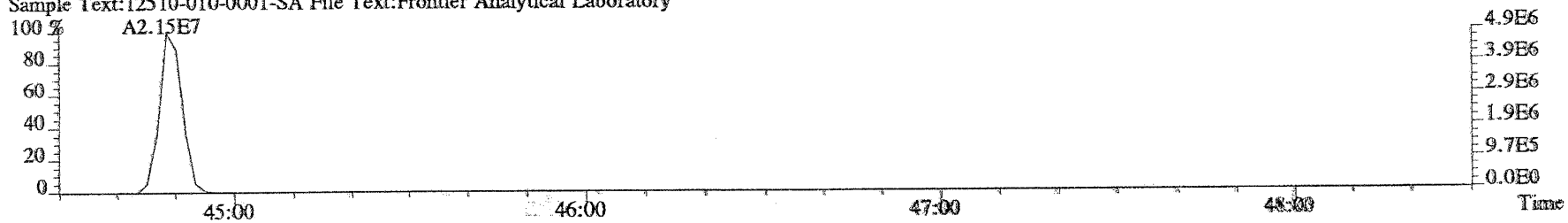
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



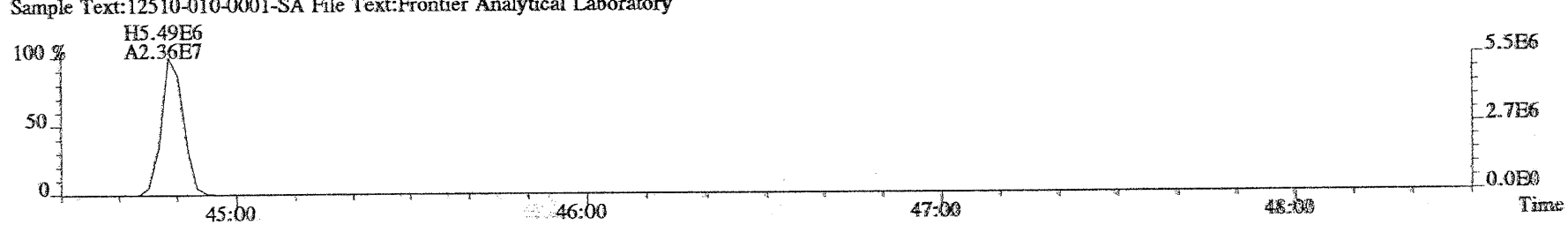
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



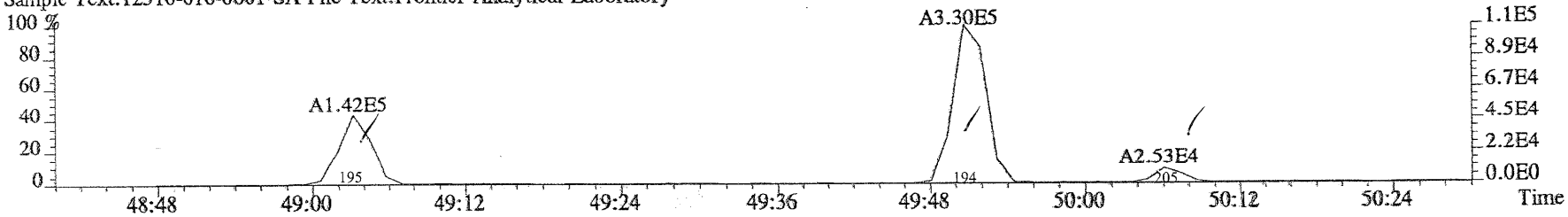
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



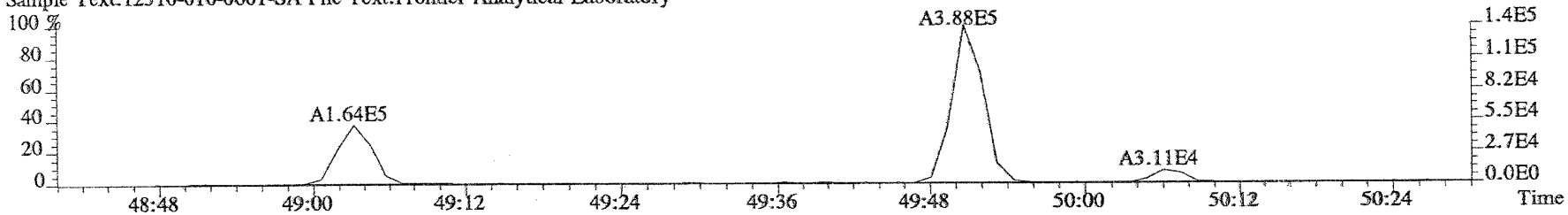
File:31JUL19Z #1-405 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



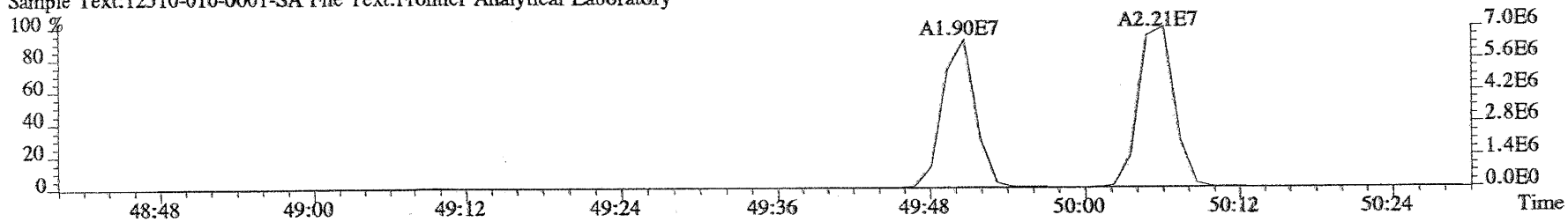
File:31JUL19Z #1-315 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



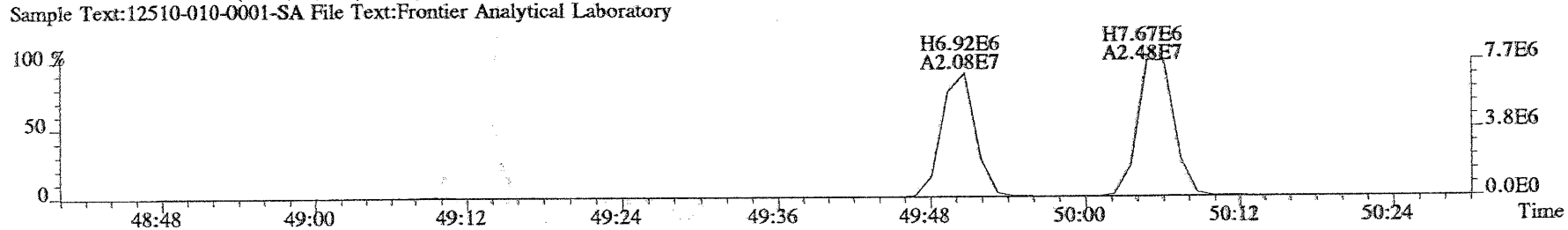
File:31JUL19Z #1-315 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



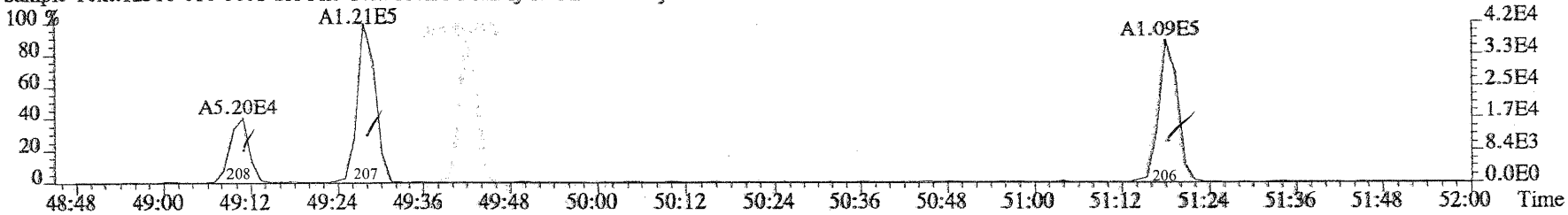
File:31JUL19Z #1-315 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



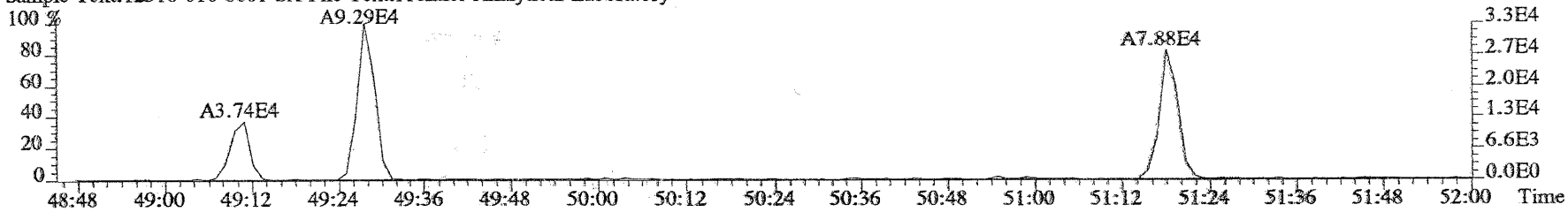
File:31JUL19Z #1-315 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



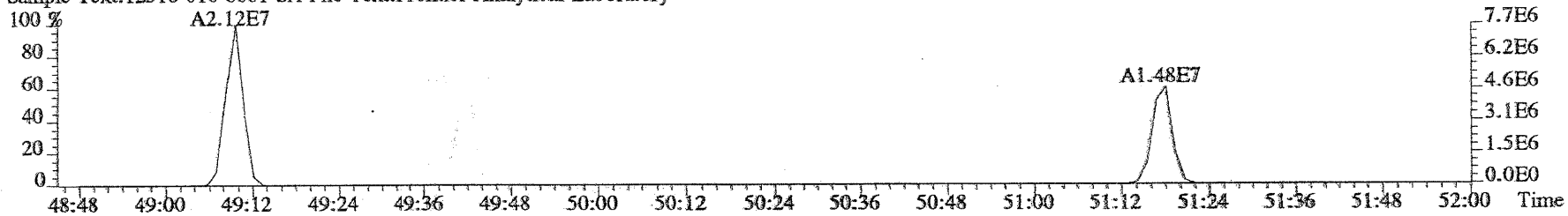
File:31JUL19Z #1-315 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



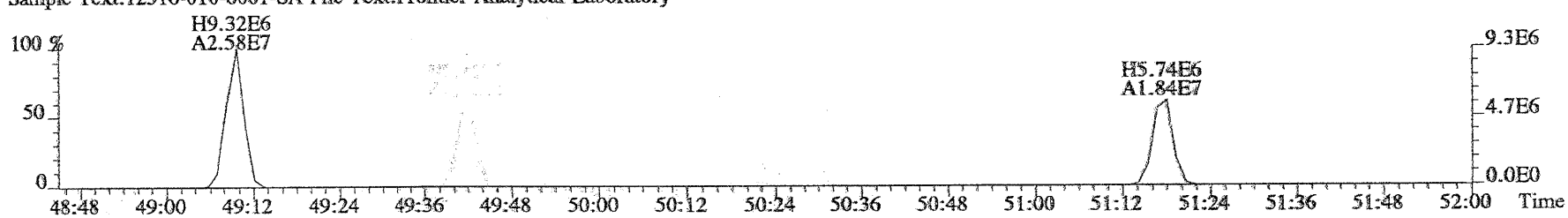
File:31JUL19Z #1-315 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



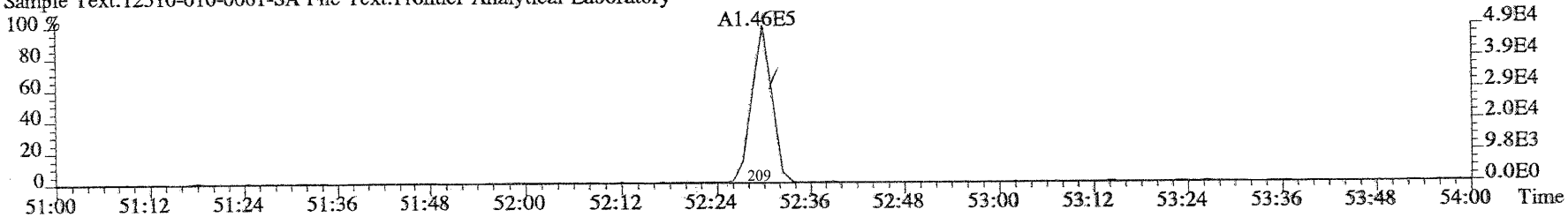
File:31JUL19Z #1-315 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



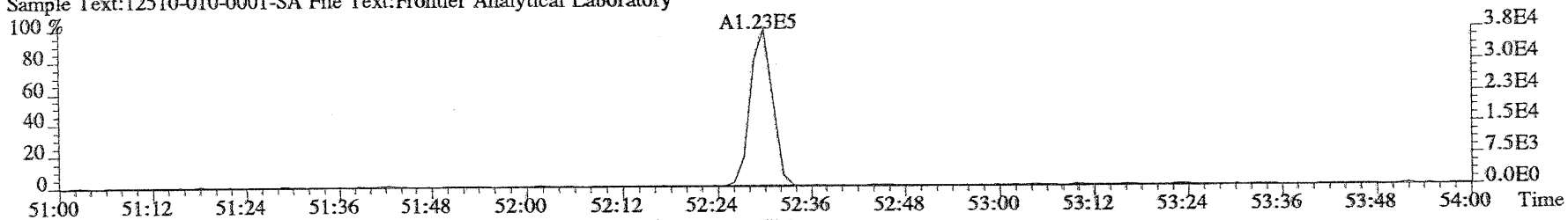
File:31JUL19Z #1-315 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



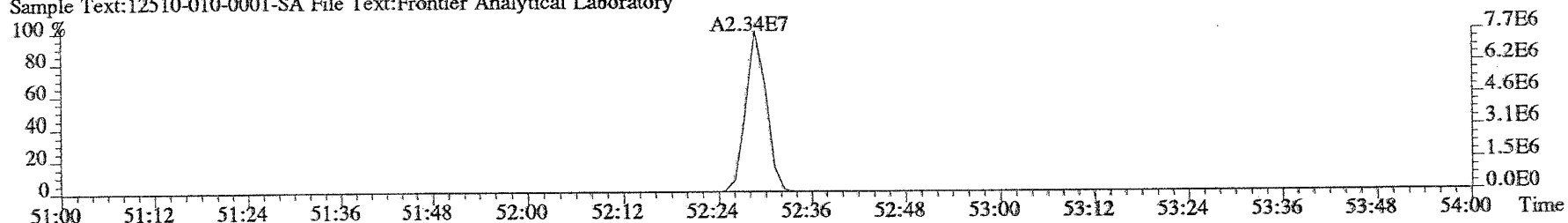
File:31JUL19Z #1-315 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



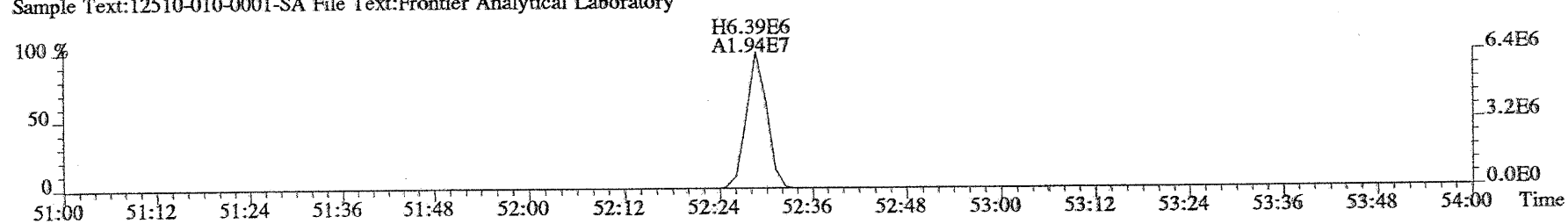
File:31JUL19Z #1-315 Acq: 1-AUG-2019 01:04:32 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq: 1-AUG-2019 01:04:32 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:12510-010-0001-SA File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq: 1-AUG-2019 01:04:32 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:12510-010-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12510-011-0001-SA Filename: 01AUG19Z Sam:3 Acquired: 1-AUG-19 09:22:41 ICal: DAILY209FAL4-8-1-19
Client ID: LDW-Y2-SU-ENR-CC-S010 ConCal: ST080119Z1 EndCal: ST080119Z2
Results: 12566 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	1.69e+05	3.11 y	14:33	1.09	14.5	J	-	-	*	
13C-PCB-1	1.07e+08	3.17 y	14:32	1.12	8110					81.1
PCB-2	*	* n	NotFnd	1.05	*		1540	1280	1.95	
PCB-3	6.56e+04	2.70 y	16:59	1.07	5.71	J	-	-	*	
13C-PCB-3	1.08e+08	3.21 y	16:58	1.06	8630					86.3
PCB-4	3.70e+06	1.37 y	18:13	1.10	488		-	-	*	
PCB-10	3.15e+05	1.40 y	18:16	1.30	28.8		-	-	*	
13C-PCB-4	6.91e+07	1.56 y	18:12	0.68	8600					86.0
PCB-9	6.12e+05	1.50 y	19:53	1.31	55.6		-	-	*	
PCB-7	5.93e+05	1.51 y	19:55	1.43	49.5		-	-	*	
PCB-6	2.99e+06	1.45 y	20:31	1.37	260		-	-	*	
PCB-8	1.22e+07	1.47 y	20:53	1.30	1110		-	-	*	
PCB-5	*	* n	NotFnd	1.33	*		937	6290	6.04	
PCB-14	7.32e+06	1.43 y	21:57	1.24	706		-	-	*	
PCB-11	8.23e+05	1.50 y	23:05	1.16	84.6		-	-	*	
PCB-13	2.80e+05	1.45 y	23:25	1.11	29.9		-	-	*	
PCB-12	2.04e+05	1.62 y	23:26	1.15	21.1		-	-	*	
PCB-15	3.36e+06	1.49 y	23:45	1.08	315		-	-	*	
13C-PCB-15	9.88e+07	1.55 y	23:44	0.86	9740					97.4
PCB-19	3.22e+06	1.06 y	22:06	1.13	493		-	-	*	
PCB-30	*	* n	NotFnd	1.68	*		1380	1060	2.29	
PCB-18	2.87e+07	1.06 y	23:38	1.09	4540		-	-	*	
PCB-17	1.31e+07	1.06 y	23:48	1.20	1890		-	-	*	
PCB-27	1.96e+06	1.02 y	24:20	1.57	216		-	-	*	
PCB-24	1.56e+06	1.13 y	24:21	1.53	176		-	-	*	
PCB-16	9.39e+06	1.07 y	24:49	1.16	1400		-	-	*	
PCB-32	1.09e+07	1.05 y	24:51	1.39	1360		-	-	*	
13C-PCB-19	5.79e+07	1.06 y	22:05	0.54	9070					90.7
13C-PCB-9	1.18e+08	1.58 y	19:53	-	98.5					
PCB-34	2.53e+05	1.11 y	25:36	1.20	26.4		-	-	*	
PCB-23	6.89e+04	0.92 y	25:42	1.19	7.24	J	-	-	*	
PCB-29	3.33e+05	1.10 y	25:55	1.27	32.8		-	-	*	
PCB-26	6.94e+06	1.05 y	26:07	1.24	701		-	-	*	
PCB-25	3.67e+06	1.07 y	26:16	1.22	379		-	-	*	
PCB-31	3.00e+07	1.03 y	26:36	1.21	3120		-	-	*	
PCB-28	3.62e+07	1.06 y	26:43	1.42	3200		-	-	*	
PCB-20	2.02e+07	1.04 y	27:18	1.19	2130		-	-	*	Co-elute PCB 21/33
PCB-21	2.02e+07	1.04 y	27:18	1.19	2130		-	-	*	Co-elute PCB 20/33
PCB-33	2.02e+07	1.04 y	27:18	1.19	2130		-	-	*	Co-elute PCB 20/21
PCB-22	1.12e+07	1.05 y	27:42	1.28	1090		-	-	*	
PCB-36	7.07e+06	1.03 y	28:18	1.15	770		-	-	*	
PCB-39	*	* n	NotFnd	1.15	*		1290	1080	2.97	
PCB-38	1.54e+05	1.09 y	29:28	1.18	16.3	J	-	-	*	
PCB-35	3.22e+05	1.03 y	30:00	1.03	39.0		-	-	*	
PCB-37	5.08e+06	1.03 y	30:24	1.10	577		-	-	*	
13C-PCB-37	7.98e+07	1.09 y	30:23	1.42	9980					99.8

PCB-54	1.68e+05	0.83	y	25:38	1.21	20.9			-	-	*	
PCB-50	1.61e+05	0.81	y	26:44	0.93	26.0			-	-	*	
PCB-53	4.50e+06	0.78	y	27:21	0.93	729			-	-	*	
PCB-51	1.47e+06	0.80	y	27:40	0.97	229			-	-	*	
PCB-45	4.17e+06	0.84	y	28:05	0.77	816			-	-	*	
PCB-46	1.59e+06	0.76	y	28:33	0.74	324			-	-	*	
PCB-52	2.49e+07	0.81	y	28:58	0.91	4140			-	-	*	Co-elute PCB 69
PCB-69	2.49e+07	0.81	y	28:58	0.91	4140			-	-	*	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	1.12	*			2260	2110	5.68	
PCB-43	1.60e+07	0.80	y	29:16	0.79	3060			-	-	*	Co-elute PCB 49
PCB-49	1.60e+07	0.80	y	29:16	0.79	3060			-	-	*	Co-elute PCB 43
PCB-47	5.38e+06	0.79	y	29:28	0.80	1010			-	-	*	
PCB-48	5.23e+06	0.81	y	29:35	1.01	784			-	-	*	Co-elute PCB 75
PCB-75	5.23e+06	0.81	y	29:35	1.01	784			-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.06	*			2260	2110	5.96	
PCB-62	*	*	n	NotFnd	0.99	*			2260	2110	6.43	
PCB-44	1.48e+07	0.79	y	30:13	0.64	3490			-	-	*	
PCB-42	7.36e+06	0.81	y	30:25	0.89	1240			-	-	*	Co-elute PCB 59
PCB-59	7.36e+06	0.81	y	30:25	0.89	1240			-	-	*	Co-elute PCB 42
PCB-72	1.81e+07	0.82	y	30:59	0.98	2790			-	-	*	Co-elute PCB 41/71/64
PCB-41	1.81e+07	0.82	y	30:59	0.98	2790			-	-	*	Co-elute PCB 72/71/64
PCB-71	1.81e+07	0.82	y	30:59	0.98	2790			-	-	*	Co-elute PCB 72/41/64
PCB-64	1.81e+07	0.82	y	30:59	0.98	2790			-	-	*	Co-elute PCB 72/41/71
PCB-68	3.56e+05	0.86	y	31:13	1.10	48.7			-	-	*	
PCB-40	2.62e+06	0.80	y	31:26	0.60	656			-	-	*	
PCB-57	1.51e+05	0.85	y	31:46	1.04	21.9			-	-	*	
PCB-67	7.03e+05	0.80	y	32:04	1.04	102			-	-	*	
PCB-58	7.89e+04	0.83	y	32:10	1.04	11.4	J		-	-	*	
PCB-63	7.44e+05	0.83	y	32:19	1.02	110			-	-	*	
PCB-74	8.14e+06	0.81	y	32:35	1.00	1230			-	-	*	
PCB-61	1.71e+07	0.81	y	32:47	0.94	2740			-	-	*	Co-elute PCB 70
PCB-70	1.71e+07	0.81	y	32:47	0.94	2740			-	-	*	Co-elute PCB 61
PCB-76	1.49e+07	0.80	y	32:59	1.09	2070			-	-	*	Co-elute PCB 66
PCB-66	1.49e+07	0.80	y	32:59	1.09	2070			-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.22	*			2260	2110	5.19	
PCB-55	7.09e+05	0.82	y	33:31	1.07	99.5			-	-	*	
13C-PCB-54	6.63e+07	0.85	y	25:37	1.29	9160						91.6
PCB-104	1.24e+07	1.55	y	30:04	1.07	2010			-	-	*	
PCB-96	2.39e+05	1.58	y	31:16	0.97	42.9			-	-	*	
PCB-103	2.18e+05	1.44	y	31:46	0.79	48.2			-	-	*	
PCB-100	1.23e+05	1.57	y	32:06	0.77	27.6			-	-	*	
PCB-94	8.07e+04	1.45	y	32:33	0.63	22.2			-	-	*	
PCB-98	*	*	n	NotFnd	0.69	*			512	616	2.79	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.69	*			512	616	2.79	Co-elute PCB 98
PCB-95	1.15e+07	1.56	y	33:03	0.66	3030			-	-	*	
PCB-93	*	*	n	NotFnd	0.64	*			512	616	3.03	
PCB-88	*	*	n	NotFnd	0.72	*			512	616	2.69	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.72	*			512	616	2.69	Co-elute PCB 88
PCB-121	2.31e+07	1.57	y	33:31	0.88	4590			-	-	*	
13C-PCB-104	5.75e+07	1.58	y	30:02	1.09	9430						94.3
13C-PCB-28	8.82e+07	1.06	y	26:41	1.76	8920						89.2
13C-PCB-52	5.62e+07	0.81	y	28:57	-	109						

PCB-56	9.65e+06	0.79	y	33:59	1.10	1290		-	-	*	Co-elute PCB 60
PCB-60	9.65e+06	0.79	y	33:59	1.10	1290		-	-	*	Co-elute PCB 56
PCB-79	2.48e+05	0.80	y	34:59	1.19	30.5		-	-	*	
PCB-78	1.75e+07	0.78	y	35:38	1.13	2280		-	-	*	
PCB-81	4.28e+05	0.76	y	36:09	1.21	52.1		-	-	*	
13C-PCB-81	6.77e+07	0.80	y	36:08	1.46	9230					92.3
PCB-77	9.25e+05	0.83	y	36:43	1.03	131		-	-	*	
13C-PCB-77	6.86e+07	0.80	y	36:42	1.53	8910					89.1
PCB-155	2.11e+07	1.28	y	34:12	1.09	3310		-	-	*	
PCB-150	5.29e+04	1.08	y	35:25	1.07	8.40	J	-	-	*	
PCB-152	*	*	n	NotFnd	1.04	*		616	592	2.04	
PCB-145	*	*	n	NotFnd	1.08	*		616	592	1.95	
PCB-136	1.86e+06	1.30	y	36:35	0.92	346		-	-	*	
PCB-148	*	*	n	NotFnd	0.86	*		616	592	2.46	
PCB-154	1.96e+05	1.26	y	37:09	0.87	38.2		-	-	*	
13C-PCB-155	5.86e+07	1.29	y	34:11	1.19	9830					98.3
13C-PCB-111	5.64e+07	1.62	y	36:16	1.26	8900					89.0
13C-PCB-101	5.01e+07	1.64	y	34:38	-	123					
PCB-84	6.11e+06	1.54	y	34:19	0.82	1240		-	-	*	Co-elute PCB 92
PCB-92	6.11e+06	1.54	y	34:19	0.82	1240		-	-	*	Co-elute PCB 84
PCB-89	2.65e+05	1.49	y	34:29	0.75	59.4		-	-	*	
PCB-90	1.41e+07	1.56	y	34:39	0.88	2680		-	-	*	Co-elute PCB 101
PCB-101	1.41e+07	1.56	y	34:39	0.88	2680		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.04	*		1480	1260	4.88	
PCB-99	6.18e+06	1.57	y	34:58	0.94	1100		-	-	*	
PCB-119	4.75e+05	1.59	y	35:25	1.13	70.4		-	-	*	
PCB-83	6.88e+05	1.65	y	35:33	0.89	129		-	-	*	Co-elute PCB 112
PCB-112	6.88e+05	1.65	y	35:33	0.89	129		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.08	*		1480	1260	4.72	
PCB-97	3.49e+06	1.56	y	35:54	0.72	816		-	-	*	
PCB-86	*	*	n	NotFnd	0.79	*		1480	1260	6.44	
PCB-125	5.31e+06	1.57	y	36:10	0.97	912		-	-	*	Co-elute PCB 87/117
PCB-87	5.31e+06	1.57	y	36:10	0.97	912		-	-	*	Co-elute PCB 125/117
PCB-117	5.31e+06	1.57	y	36:10	0.97	912		-	-	*	Co-elute PCB 125/87
PCB-111	3.60e+05	1.75	y	36:19	1.13	53.2		-	-	*	Co-elute PCB 115
PCB-115	3.60e+05	1.75	y	36:19	1.13	53.2		-	-	*	Co-elute PCB 111
PCB-85	2.05e+06	1.66	y	36:25	0.95	360		-	-	*	Co-elute PCB 116
PCB-116	2.05e+06	1.66	y	36:25	0.95	360		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.17	*		1480	1260	4.32	
PCB-110	1.53e+07	1.60	y	36:47	1.09	2350		-	-	*	
PCB-82	1.13e+06	1.55	y	37:23	0.64	294		-	-	*	
PCB-124	4.68e+05	1.44	y	38:03	1.04	75.2		-	-	*	
PCB-108	7.62e+05	1.55	y	38:11	1.14	112		-	-	*	Co-elute PCB 107
PCB-107	7.62e+05	1.55	y	38:11	1.14	112		-	-	*	Co-elute PCB 108
PCB-123	1.88e+05	1.61	y	38:21	0.99	32.9		-	-	*	
13C-PCB-123	5.77e+07	1.58	y	38:19	1.17	10300					103
PCB-118	9.16e+06	1.56	y	38:31	1.09	1340		-	-	*	Co-elute PCB 106
PCB-106	9.16e+06	1.56	y	38:31	1.09	1340		-	-	*	Co-elute PCB 118
13C-PCB-118	6.26e+07	1.61	y	38:29	1.27	10200					102
PCB-114	3.04e+05	1.55	y	39:09	1.10	45.3		-	-	*	
13C-PCB-114	6.11e+07	1.60	y	39:07	1.24	10300					103
PCB-122	1.51e+05	1.48	y	39:15	1.17	21.7		-	-	*	
PCB-105	3.19e+06	1.57	y	39:57	1.15	479		-	-	*	
13C-PCB-105	5.78e+07	1.60	y	39:55	1.24	9670					96.7

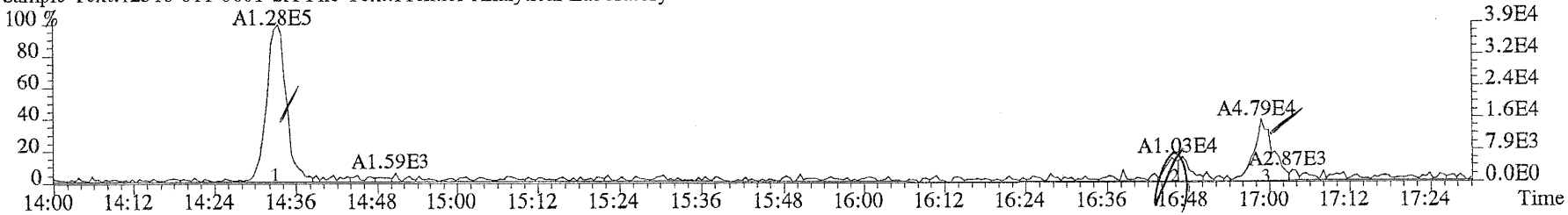
PCB-127	*	*	n	NotFnd	1.06	*		1010	1140	3.77	
PCB-126	6.94e+04	1.40	y	42:03	1.11	11.5	J	-	-	*	
13C-PCB-126	5.45e+07	1.59	y	42:03	1.18	9630					96.3
PCB-151	1.93e+06	1.30	y	37:47	0.79	508		-	-	*	
PCB-135	1.17e+06	1.32	y	38:00	0.75	323		-	-	*	
PCB-144	4.23e+05	1.35	y	38:05	0.87	101		-	-	*	
PCB-147	1.62e+05	1.32	y	38:13	0.91	36.7		-	-	*	
PCB-139	7.48e+06	1.26	y	38:26	0.92	1680		-	-	*	Co-elute PCB 149
PCB-149	7.48e+06	1.26	y	38:26	0.92	1680		-	-	*	Co-elute PCB 139
PCB-140	8.21e+04	1.22	y	38:38	0.89	19.0	J	-	-	*	
PCB-143	4.26e+05	1.12	y	39:04	0.74	119		-	-	*	Co-elute PCB 134
PCB-134	4.26e+05	1.12	y	39:04	0.74	119		-	-	*	Co-elute PCB 143
PCB-131	1.77e+05	1.14	y	39:19	0.73	49.8		-	-	*	Co-elute PCB 133
PCB-133	1.77e+05	1.14	y	39:19	0.73	49.8		-	-	*	Co-elute PCB 131
PCB-142	4.47e+07	1.27	y	39:29	0.75	12400		-	-	*	
PCB-165	1.39e+06	1.33	y	39:42	1.02	283		-	-	*	Co-elute PCB 146
PCB-146	1.39e+06	1.33	y	39:42	1.02	283		-	-	*	Co-elute PCB 165
PCB-161	2.40e+06	1.27	y	39:58	0.92	539		-	-	*	Co-elute PCB 132
PCB-132	2.40e+06	1.27	y	39:58	0.92	539		-	-	*	Co-elute PCB 161
PCB-153	7.52e+06	1.30	y	40:05	1.00	1560		-	-	*	
PCB-168	*	*	n	NotFnd	1.10	*		1170	844	3.99	
PCB-141	1.19e+06	1.18	y	40:46	0.83	297		-	-	*	
PCB-137	2.47e+05	1.19	y	41:09	0.78	65.6		-	-	*	
PCB-130	3.90e+05	1.29	y	41:14	0.77	104		-	-	*	
PCB-138	7.44e+06	1.28	y	41:35	1.06	1450		-	-	*	Co-elute PCB 163/164
PCB-163	7.44e+06	1.28	y	41:35	1.06	1450		-	-	*	Co-elute PCB 138/164
PCB-164	7.44e+06	1.28	y	41:35	1.06	1450		-	-	*	Co-elute PCB 138/163
PCB-158	9.05e+05	1.25	y	41:48	1.17	161		-	-	*	Co-elute PCB 160
PCB-160	9.05e+05	1.25	y	41:48	1.17	161		-	-	*	Co-elute PCB 158
PCB-129	2.47e+05	1.34	y	42:03	0.71	71.8		-	-	*	
PCB-166	*	*	n	NotFnd	1.07	*		1170	844	4.13	
PCB-159	1.39e+05	1.23	y	42:49	1.21	23.8		-	-	*	
PCB-128	9.47e+05	1.28	y	43:04	0.96	203		-	-	*	Co-elute PCB 162
PCB-162	9.47e+05	1.28	y	43:04	0.96	203		-	-	*	Co-elute PCB 128
PCB-167	2.08e+05	1.42	y	43:26	1.11	37.1		-	-	*	
13C-PCB-167	5.05e+07	1.29	y	43:24	1.15	9100					91.0
PCB-156	5.62e+05	1.25	y	44:40	1.17	103		-	-	*	
13C-PCB-156	4.65e+07	1.28	y	44:38	1.13	8530					85.3
PCB-157	1.51e+05	1.20	y	44:54	1.12	27.5		-	-	*	
13C-PCB-157	4.90e+07	1.27	y	44:53	1.15	8850					88.5
PCB-169	*	*	n	NotFnd	1.07	*		1170	844	3.85	
13C-PCB-169	4.75e+07	1.26	y	46:45	1.16	8500					85.0

FAL ID: 12510-011-0001-SA Filename: 01AUG19Z Sam:3 Acquired: 1-AUG-19 09:22:41 ICal: DAILY209FAL4-8-1-19
Client ID: LDW-Y2-SU-ENR-CC-S010 ConCal: ST080119Z1 EndCal: ST080119Z2
Results: 12510-11 GC Column: DB1MS Amount: 1.000

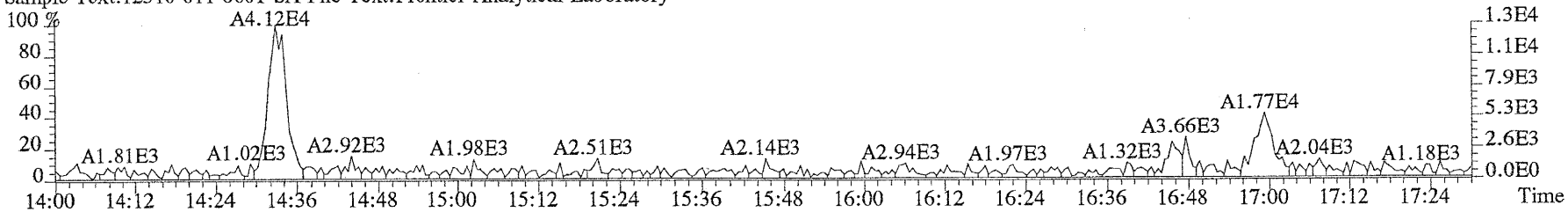
PCB-188	7.35e+04	0.98	y	39:42	1.07	13.1	J	-	-	*	
13C-PCB-188	5.27e+07	1.06	y	39:42	1.14	9580					95.8
PCB-184	2.74e+07	1.05	y	40:08	1.11	5010		-	-	*	
PCB-179	8.34e+05	1.11	y	40:53	1.04	162		-	-	*	
PCB-176	2.52e+05	1.06	y	41:19	1.03	49.8		-	-	*	
PCB-186	3.67e+04	1.00	y	41:53	1.07	6.94	J	-	-	*	
PCB-178	2.36e+05	1.04	y	42:21	0.72	66.8		-	-	*	
PCB-175	5.87e+04	1.09	y	42:41	0.75	16.0	J	-	-	*	
PCB-187	1.42e+06	1.02	y	42:49	0.85	338		-	-	*	Co-elute PCB 182
PCB-182	1.42e+06	1.02	y	42:49	0.85	338		-	-	*	Co-elute PCB 187
PCB-183	5.94e+05	1.00	y	43:09	0.83	146		-	-	*	
PCB-185	1.18e+05	1.20	y	43:47	0.74	32.1		-	-	*	
PCB-174	9.27e+05	1.00	y	44:07	0.77	244		-	-	*	
PCB-181	*	*	n	NotFnd	0.73	*		604	560	2.85	
PCB-177	4.91e+05	1.03	y	44:23	0.68	148		-	-	*	
PCB-171	2.21e+05	1.18	y	44:40	0.75	59.9		-	-	*	
PCB-173	*	*	n	NotFnd	0.67	*		604	560	3.13	
PCB-172	5.10e+05	1.09	y	45:26	0.73	142		-	-	*	
PCB-192	1.70e+07	1.06	y	45:37	0.95	3620		-	-	*	
PCB-180	1.55e+06	1.08	y	45:47	0.73	431		-	-	*	
PCB-193	1.44e+05	1.11	y	45:57	1.05	27.8		-	-	*	
PCB-191	*	*	n	NotFnd	1.02	*		604	560	2.05	
PCB-170	5.71e+05	1.11	y	47:05	0.75	155		-	-	*	
PCB-190	1.94e+05	0.94	y	47:14	1.03	38.3		-	-	*	
PCB-189	5.39e+04	0.92	y	48:27	1.08	10.9	J	-	-	*	
13C-PCB-189	4.58e+07	1.08	y	48:25	1.12	8470					84.7
PCB-202	1.05e+05	0.85	y	44:50	1.01	25.0		-	-	*	
PCB-201	4.73e+04	0.86	y	45:16	1.06	10.7	J	-	-	*	
PCB-204	4.03e+07	0.90	y	45:24	1.09	8830		-	-	*	
PCB-197	2.57e+05	0.91	y	45:41	1.13	54.5		-	-	*	
PCB-200	7.43e+04	0.79	y	46:25	1.13	15.7	J	-	-	*	
PCB-198	3.48e+04	0.83	y	47:36	0.85	9.85	J	-	-	*	
PCB-199	2.72e+05	0.96	y	47:42	0.79	82.5		-	-	*	
PCB-203	3.22e+05	0.85	y	47:57	0.92	83.5		-	-	*	Co-elute PCB 196
PCB-196	3.22e+05	0.85	y	47:57	0.92	83.5		-	-	*	Co-elute PCB 203
13C-PCB-202	4.17e+07	0.90	y	44:48	0.99	8760					87.6
13C-PCB-178	3.30e+07	1.08	y	42:20	0.77	8920					89.2
13C-PCB-138	4.81e+07	1.30	y	41:34	-	112					
PCB-195	1.22e+05	0.96	y	49:03	0.75	33.6		-	-	*	
PCB-194	2.66e+05	0.95	y	49:50	0.83	65.7		-	-	*	
PCB-205	7.67e+04	0.84	y	50:06	1.05	15.0	J	-	-	*	
13C-PCB-205	4.87e+07	0.91	y	50:05	1.33	9160					91.6
PCB-208	5.21e+04	1.38	y	49:09	1.02	11.1	J	-	-	*	
13C-PCB-208	4.60e+07	0.78	y	49:08	1.36	8510					85.1
PCB-207	2.07e+05	1.34	y	49:27	1.15	43.9		-	-	*	
PCB-206	9.69e+04	1.52	y	51:18	1.04	25.9		-	-	*	
13C-PCB-206	3.59e+07	0.80	y	51:17	0.94	9560					95.6
PCB-209	2.67e+05	1.20	y	52:28	1.12	54.0		-	-	*	
13C-PCB-209	4.43e+07	1.18	y	52:28	1.30	8550					85.5
13C-PCB-194	3.98e+07	0.91	y	49:49	-	103					

Analyst: _____ Date: 8/2/19

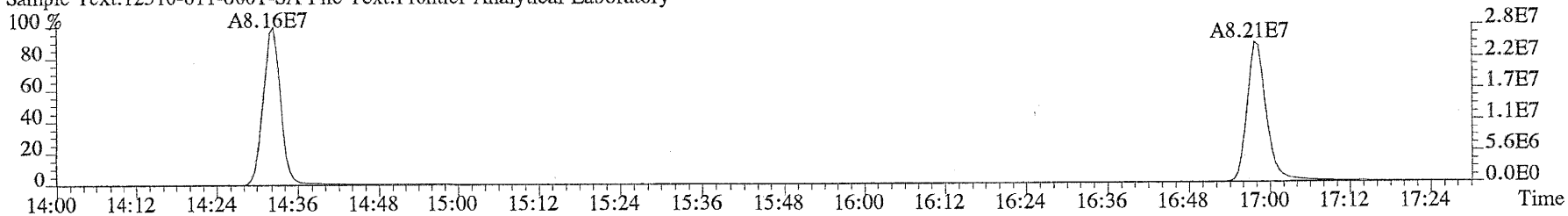
File:01AUG19Z #1-783 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



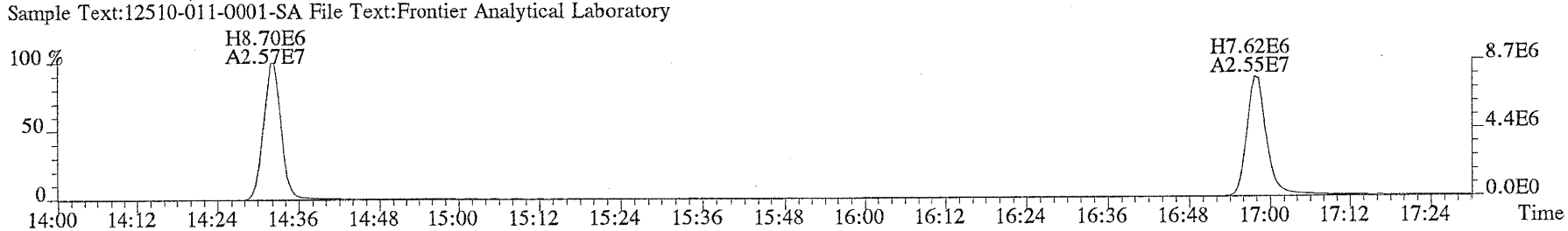
File:01AUG19Z #1-783 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



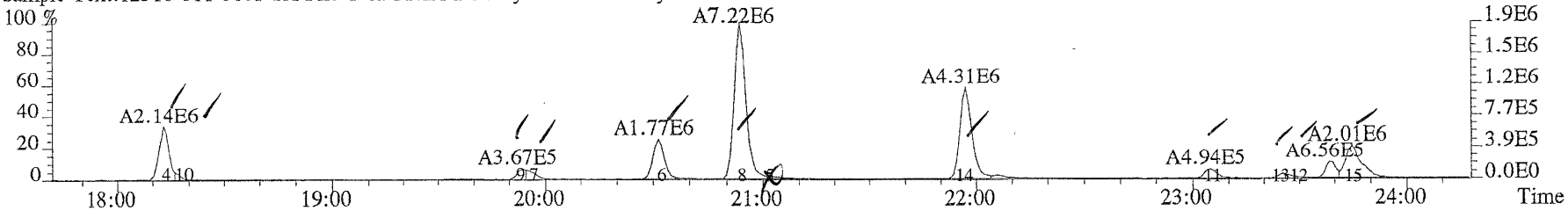
File:01AUG19Z #1-783 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



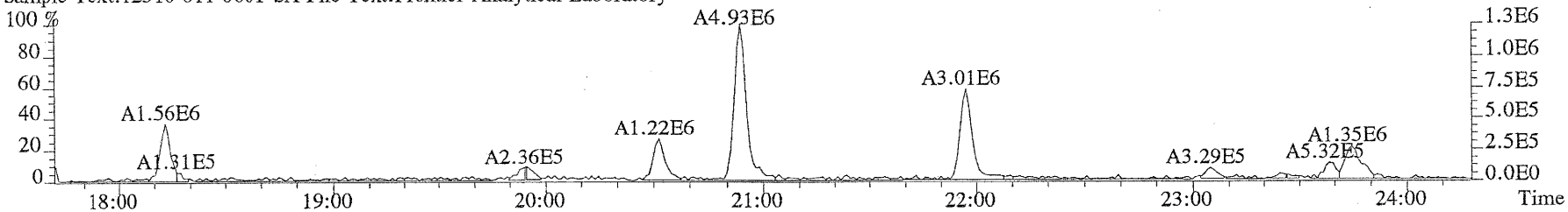
File:01AUG19Z #1-783 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



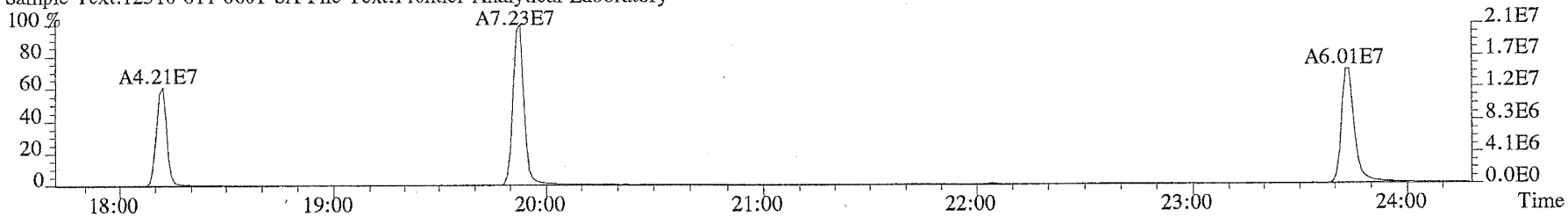
File:01AUG19Z #1-521 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



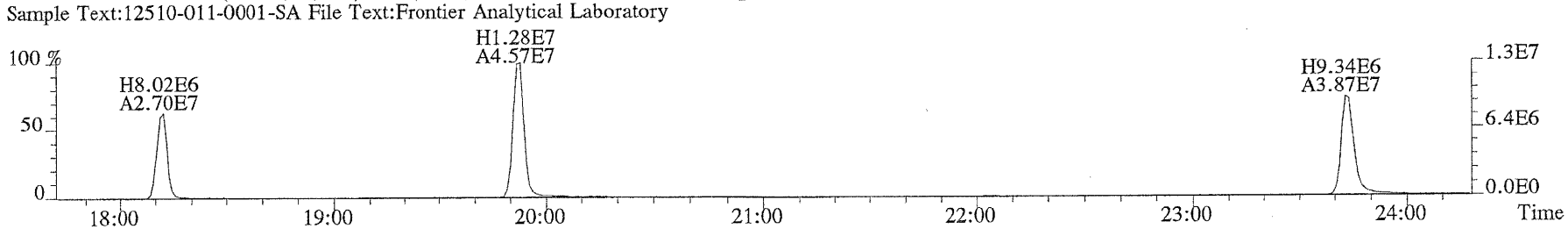
File:01AUG19Z #1-521 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



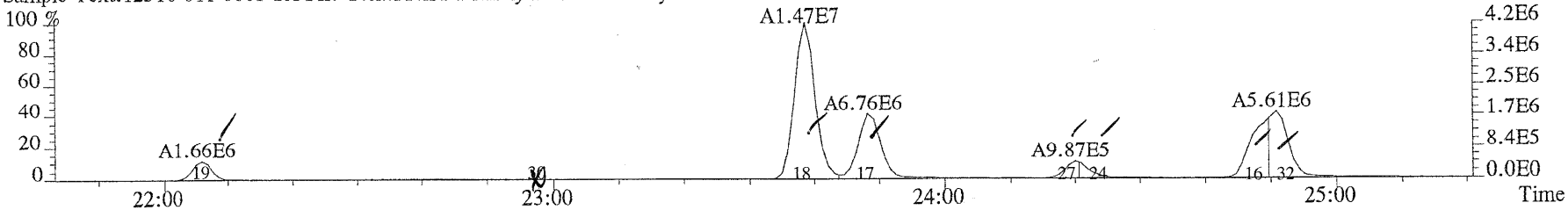
File:01AUG19Z #1-521 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



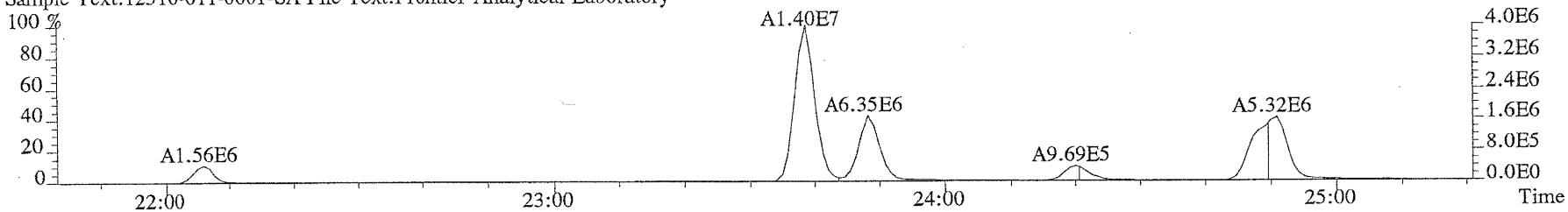
File:01AUG19Z #1-521 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



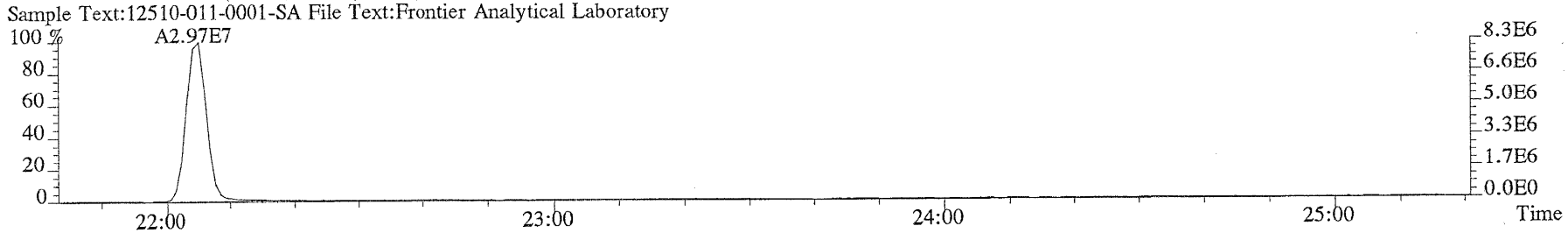
File:01AUG19Z #1-521 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



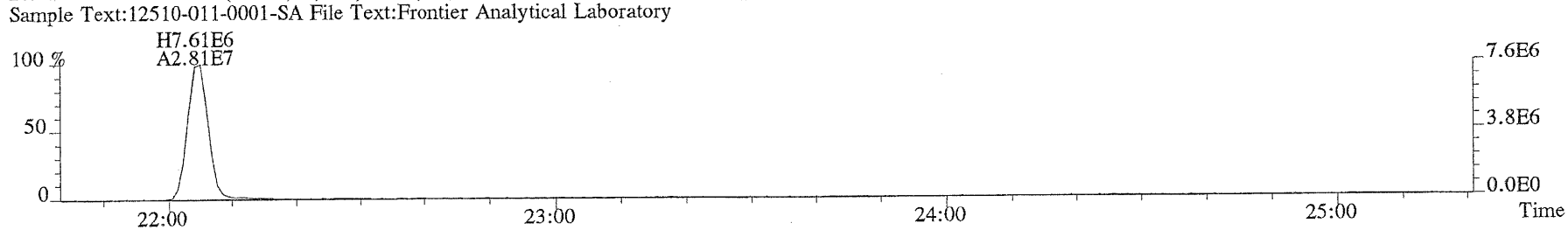
File:01AUG19Z #1-521 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



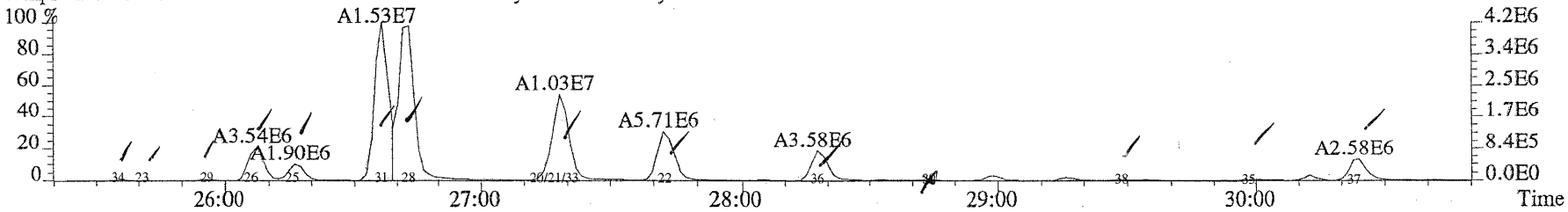
File:01AUG19Z #1-521 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



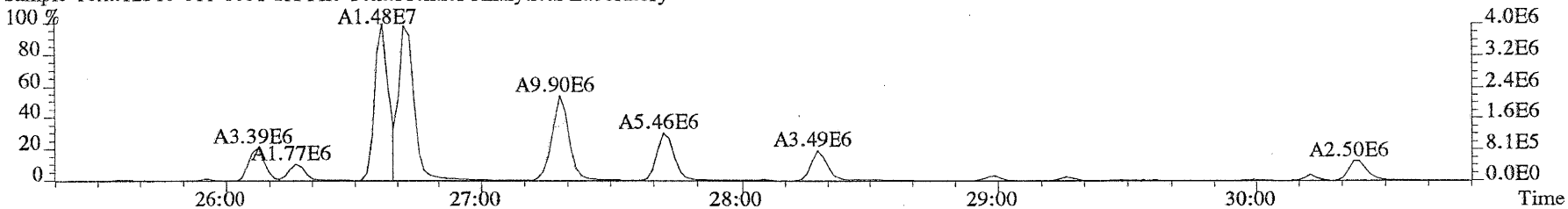
File:01AUG19Z #1-521 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



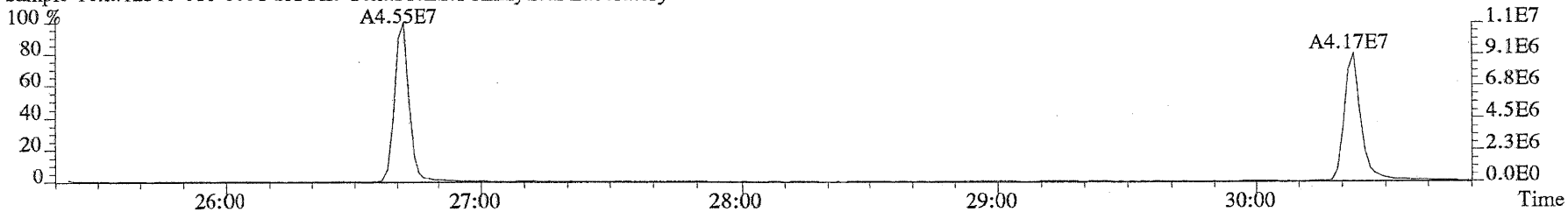
File:01AUG19Z #1-401 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



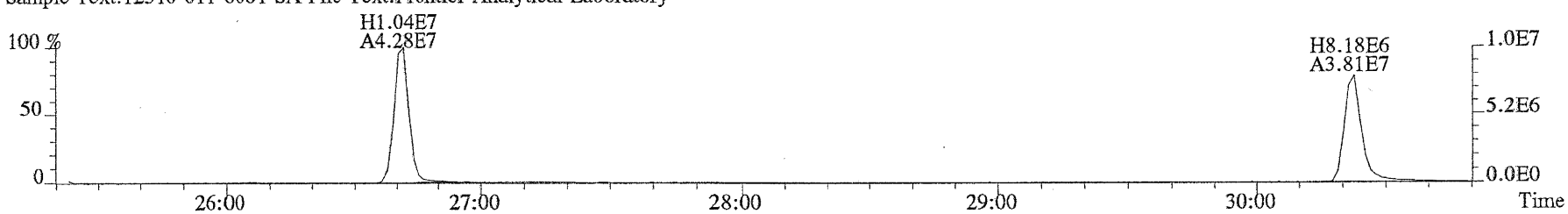
File:01AUG19Z #1-401 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



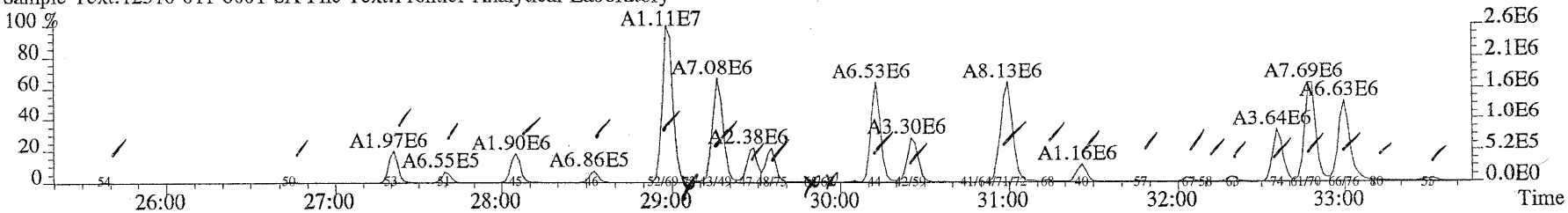
File:01AUG19Z #1-401 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



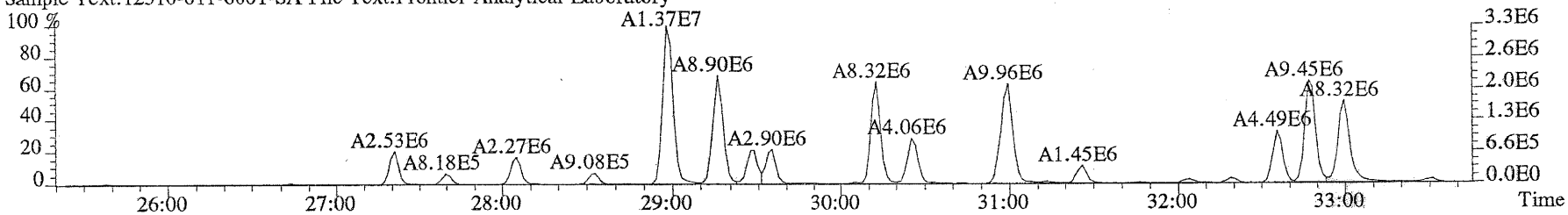
File:01AUG19Z #1-401 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



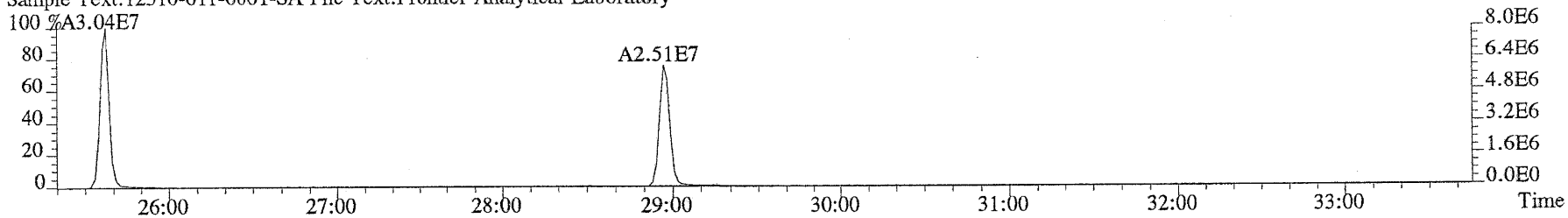
File:01AUG19Z #1-401 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



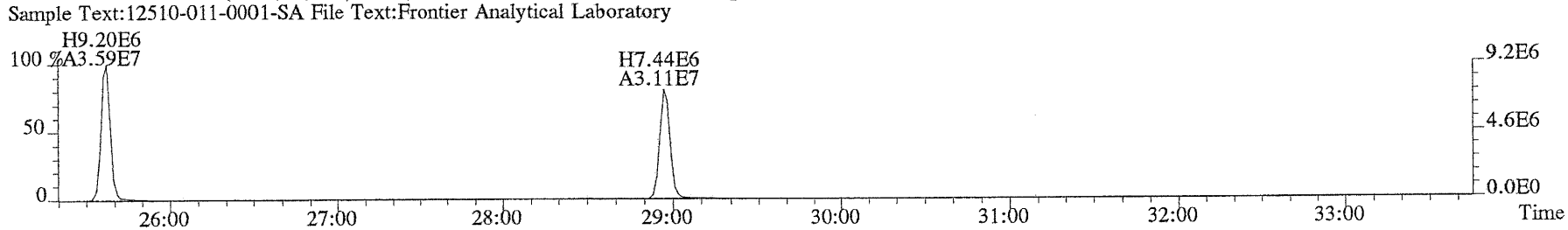
File:01AUG19Z #1-401 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



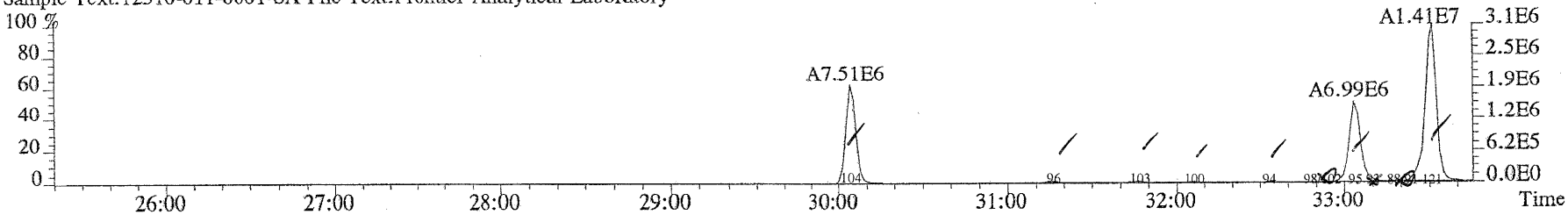
File:01AUG19Z #1-401 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



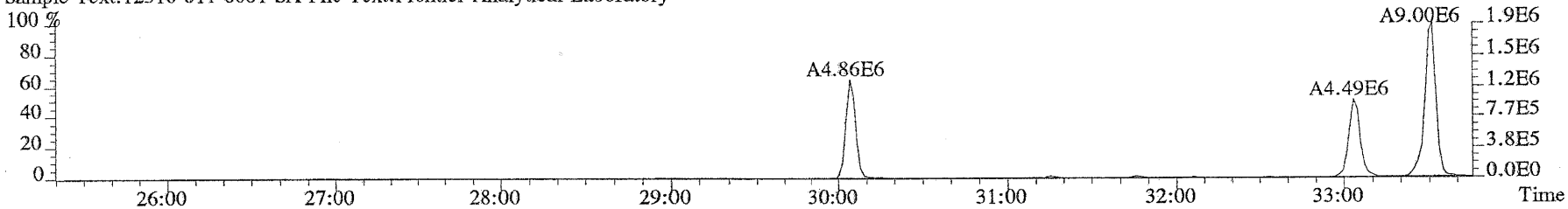
File:01AUG19Z #1-401 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



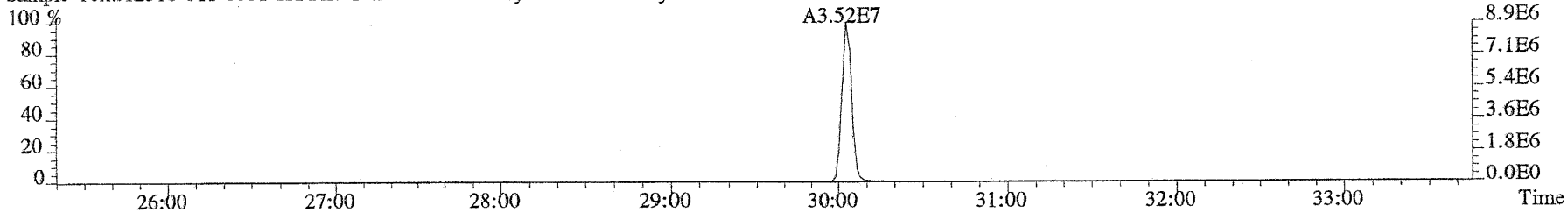
File:01AUG19Z #1-401 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



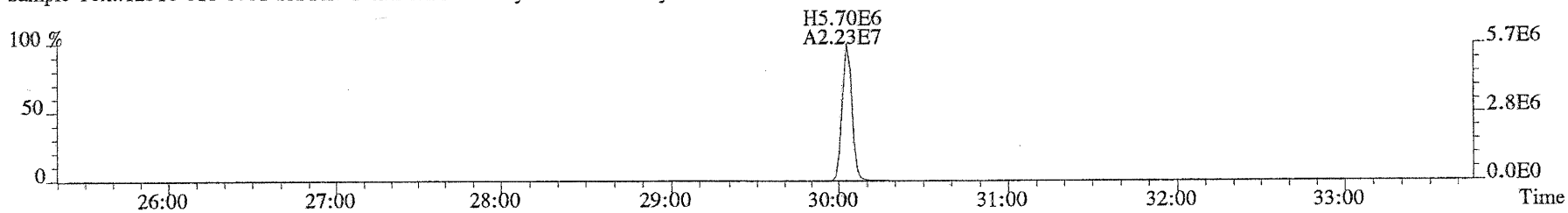
File:01AUG19Z #1-401 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



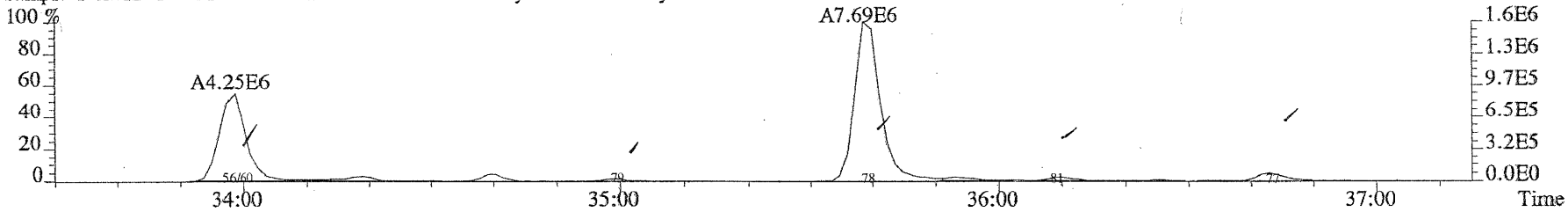
File:01AUG19Z #1-401 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



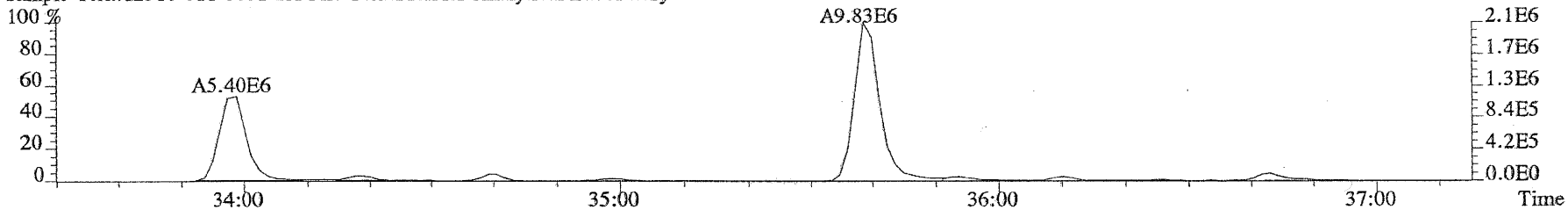
File:01AUG19Z #1-401 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



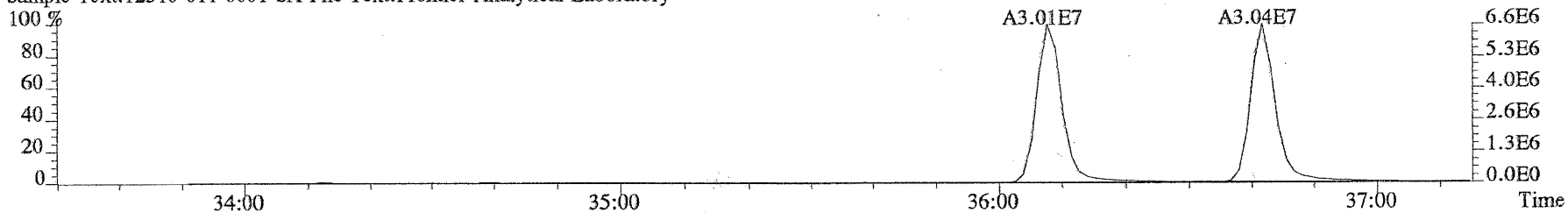
File:01AUG19Z #1-180 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



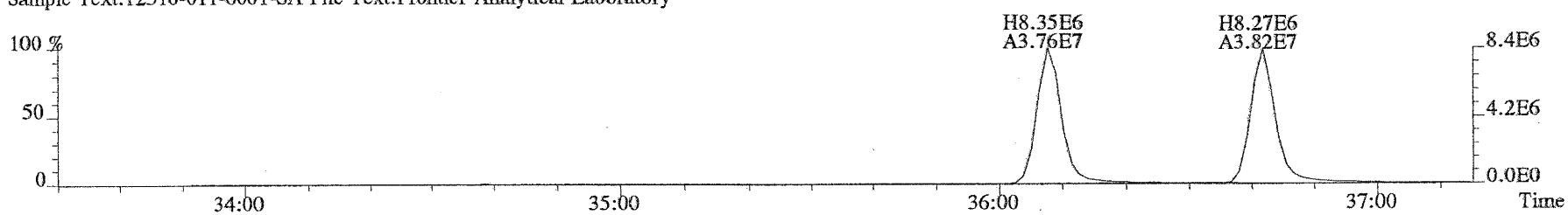
File:01AUG19Z #1-180 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



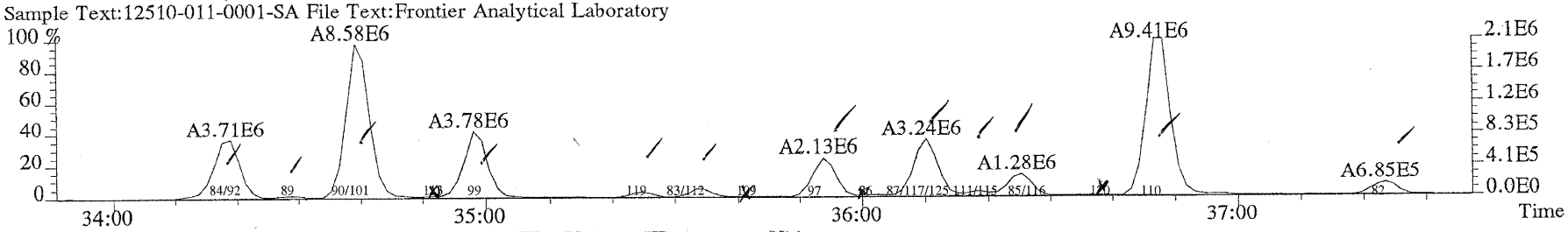
File:01AUG19Z #1-180 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



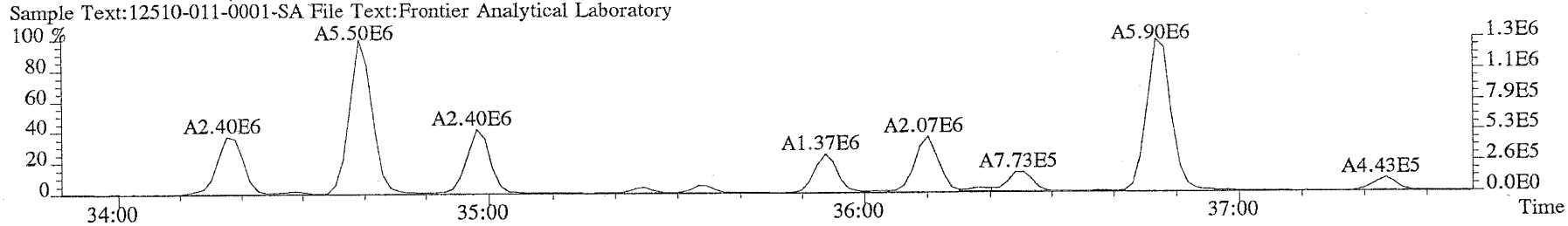
File:01AUG19Z #1-180 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



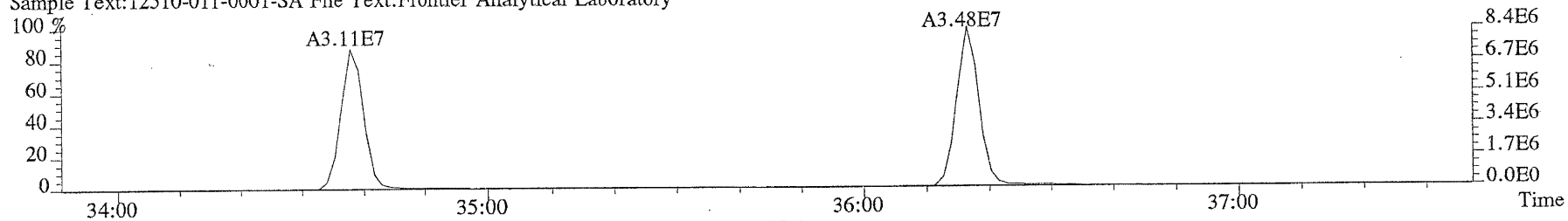
File:01AUG19Z #1-180 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-180 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-180 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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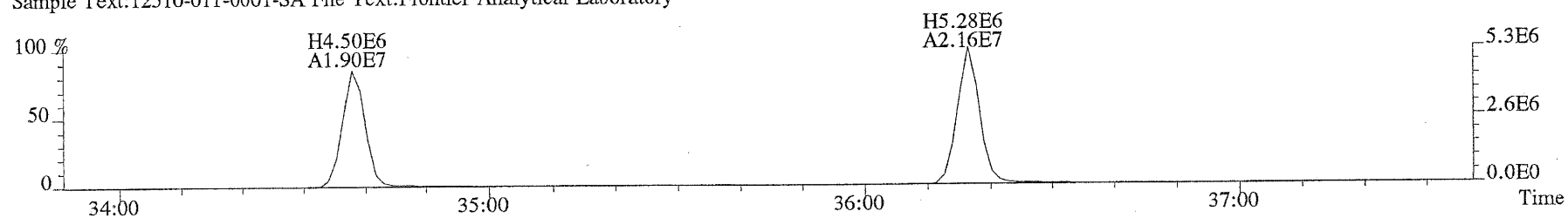
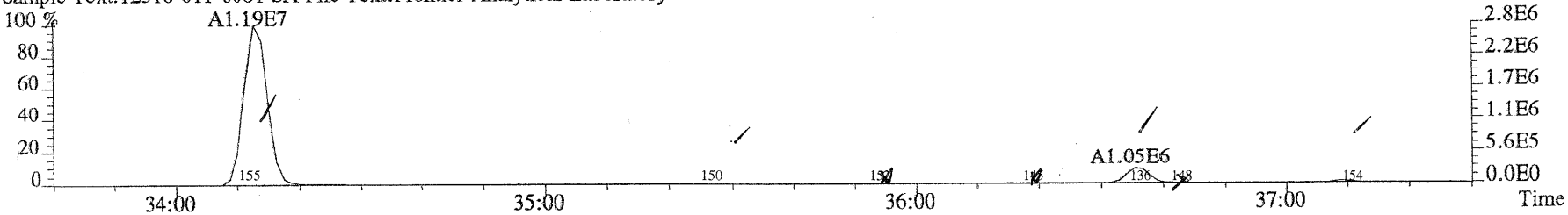
339.9178 S:3 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-180 Acq: 1-AUG-2019 09:22:41 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:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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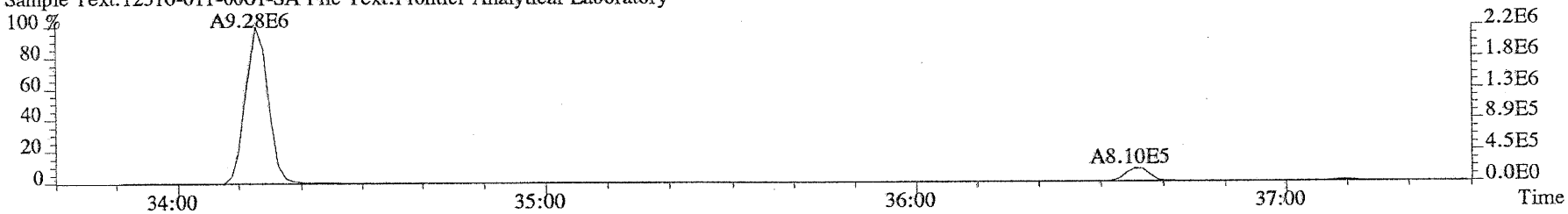
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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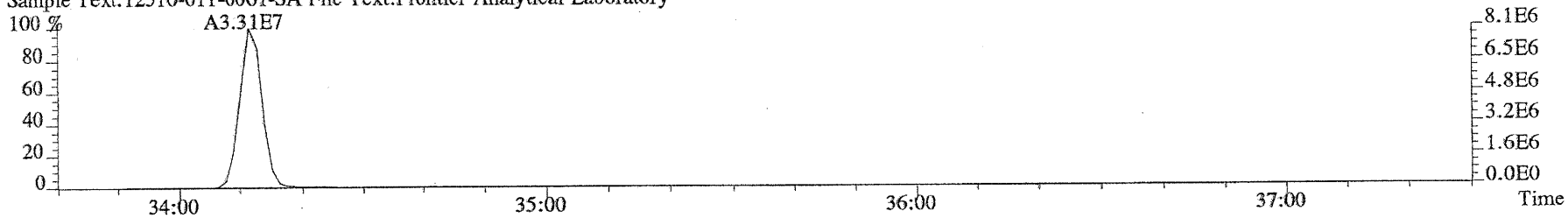
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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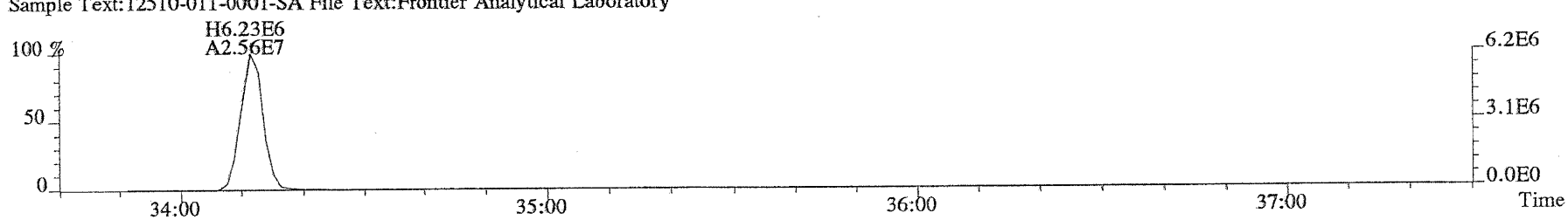
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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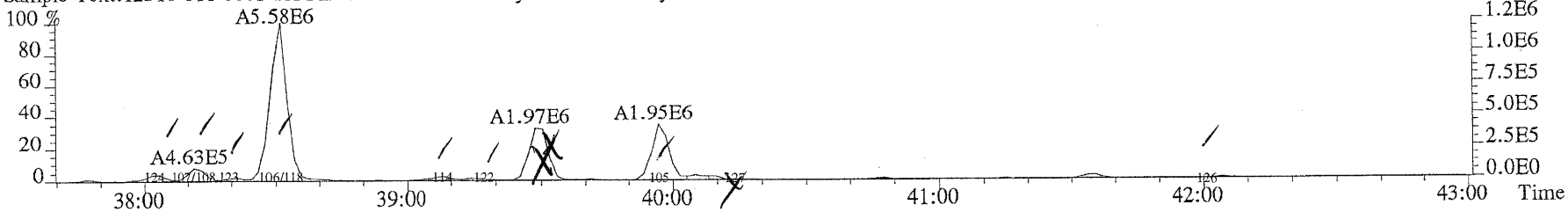
325.8804 S:3 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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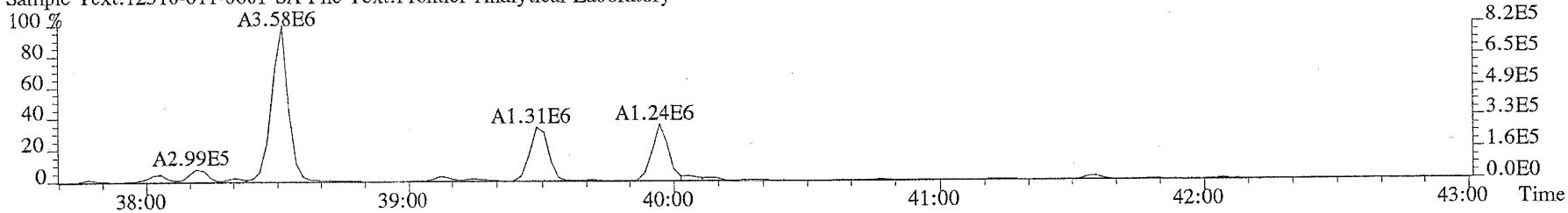
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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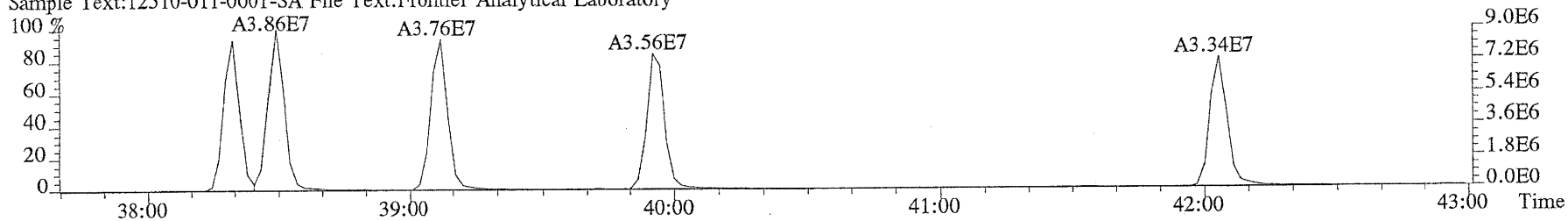
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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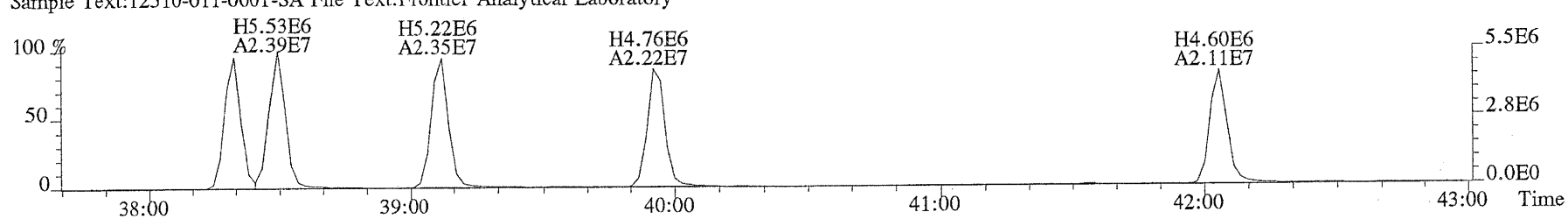
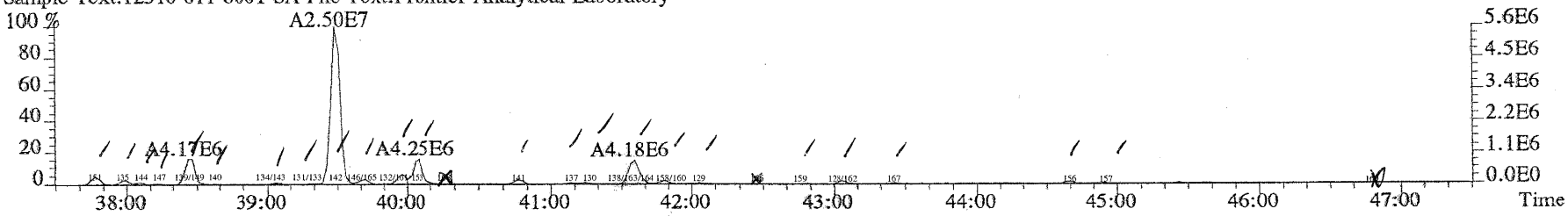
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-406 Acq: 1-AUG-2019 09:22:41 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:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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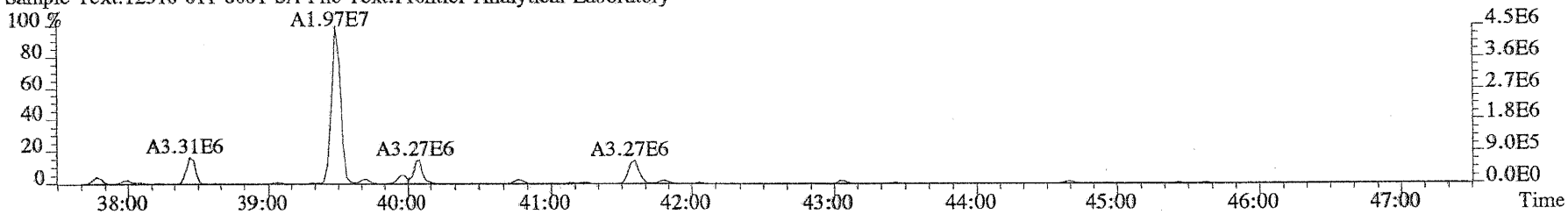
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-406 Acq: 1-AUG-2019 09:22:41 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
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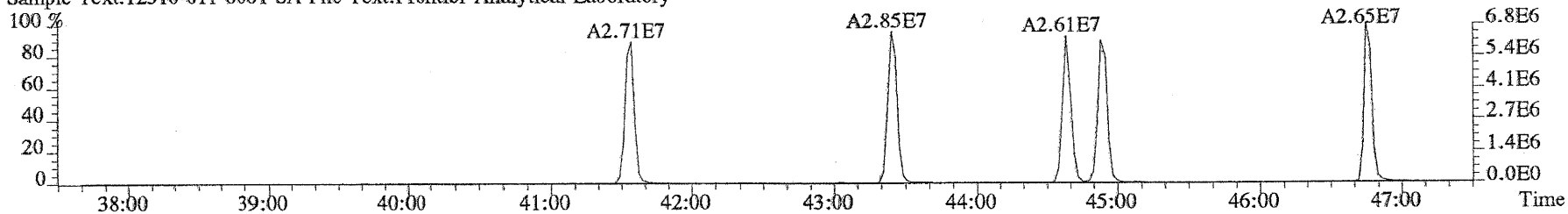

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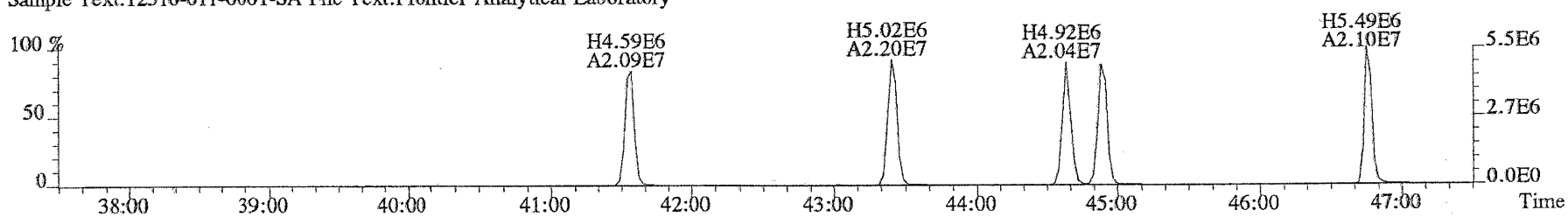

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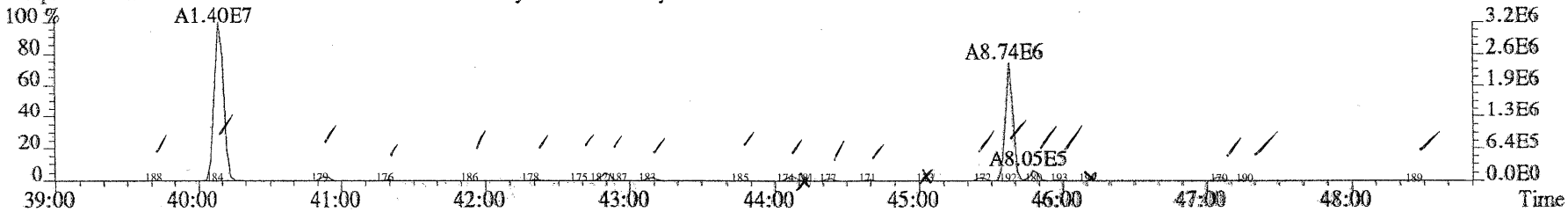
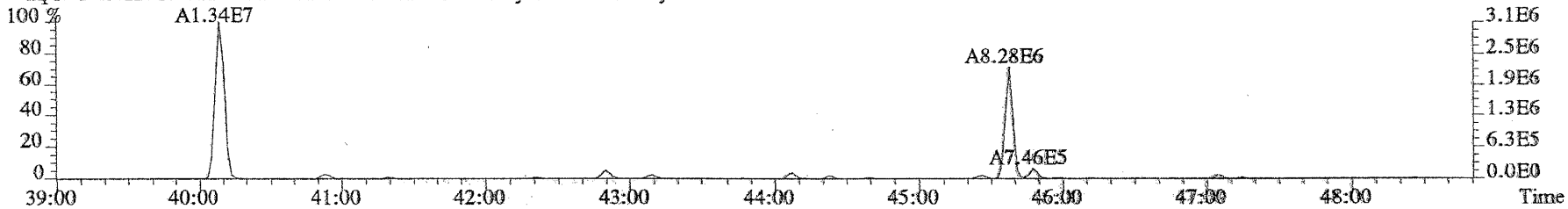


File:01AUG19Z #1-406 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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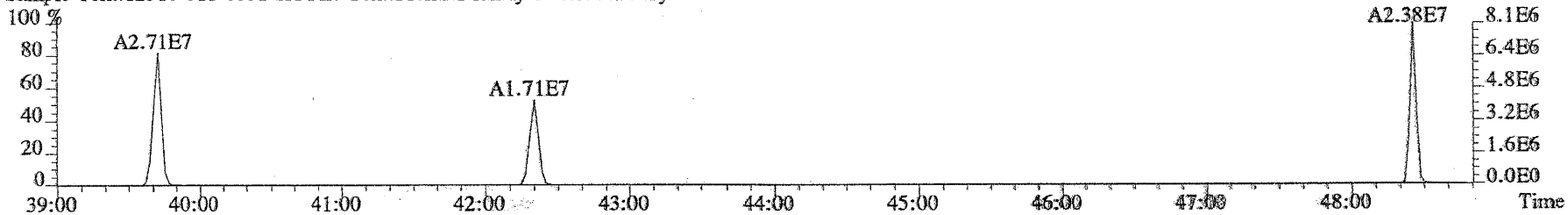
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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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
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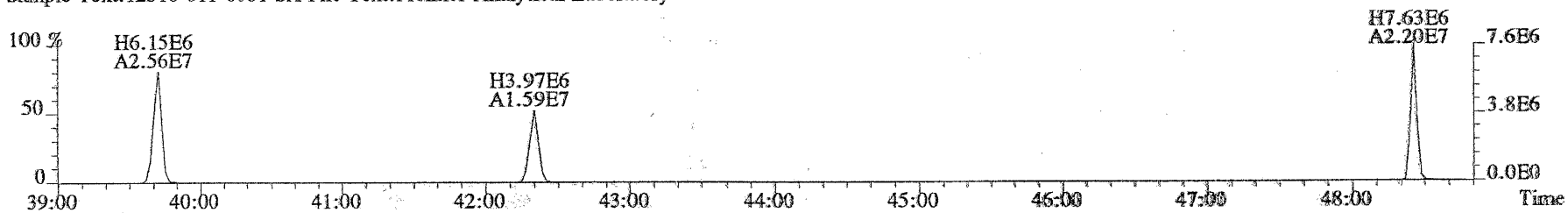
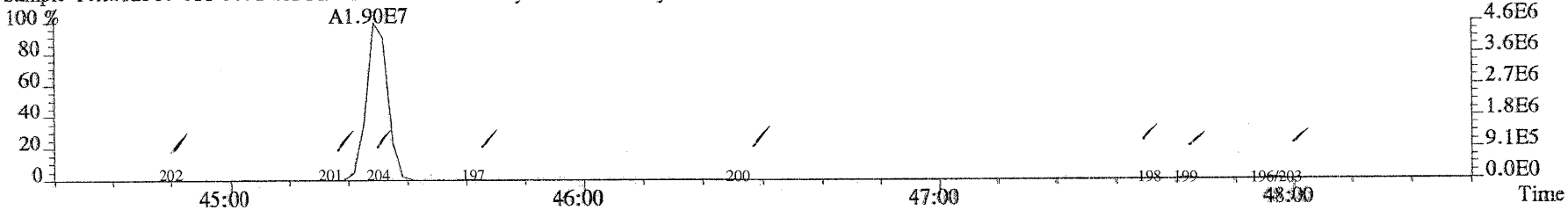


File:01AUG19Z #1-406 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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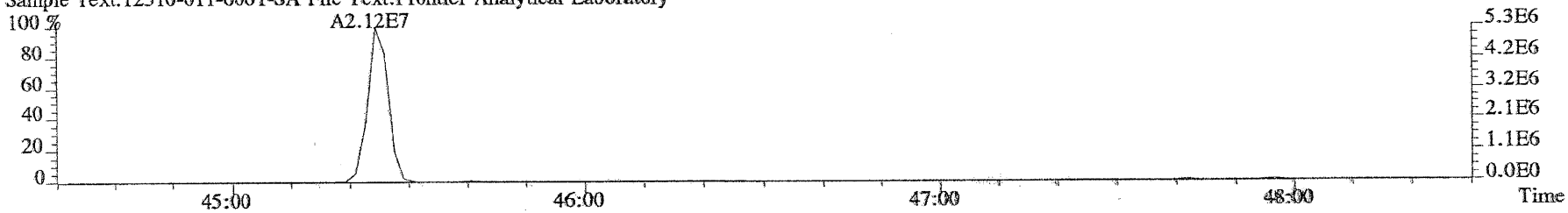
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-406 Acq: 1-AUG-2019 09:22:41 GC EI+ Voltage SIR Autospec-Ultima
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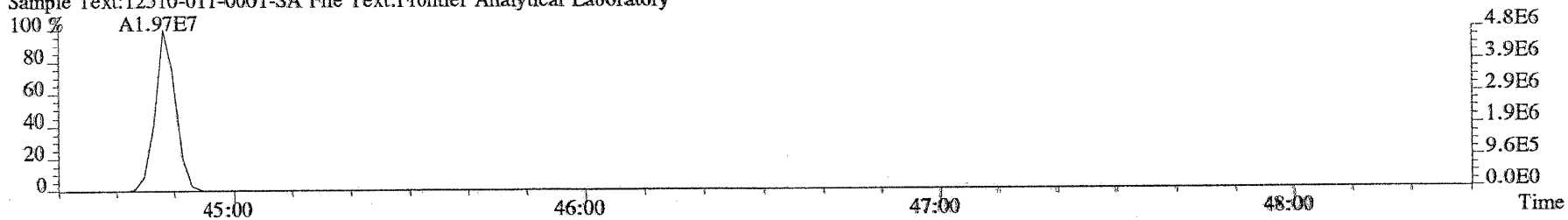
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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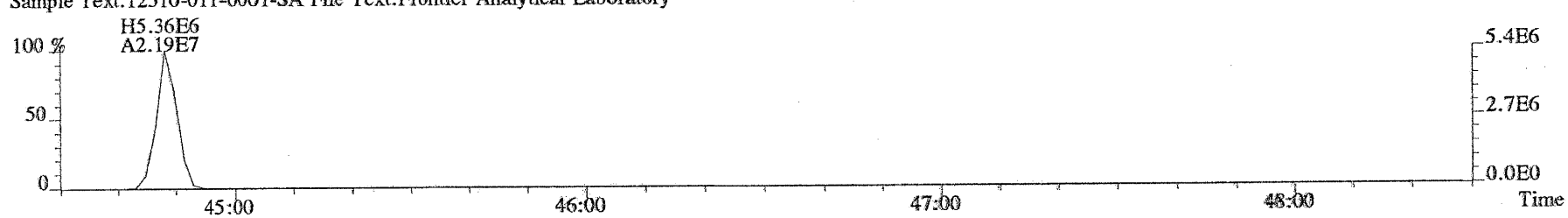
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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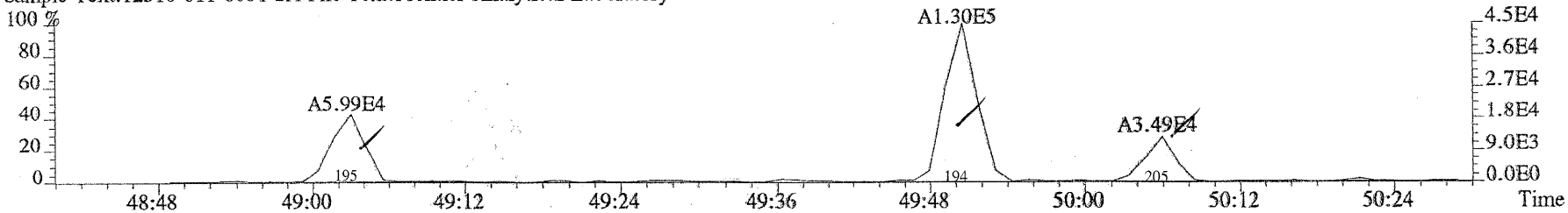
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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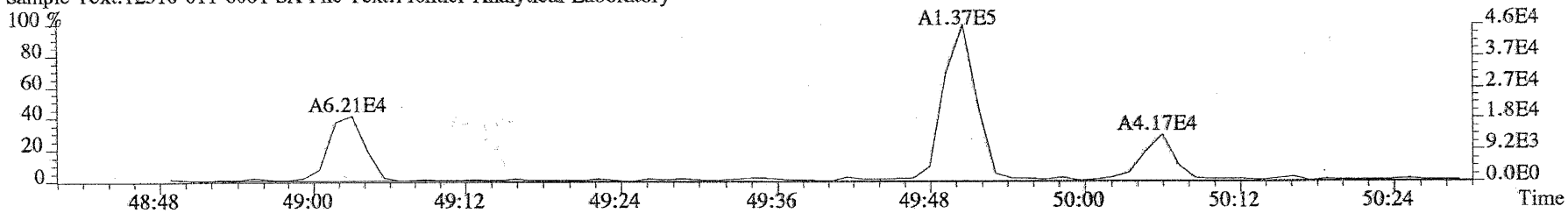
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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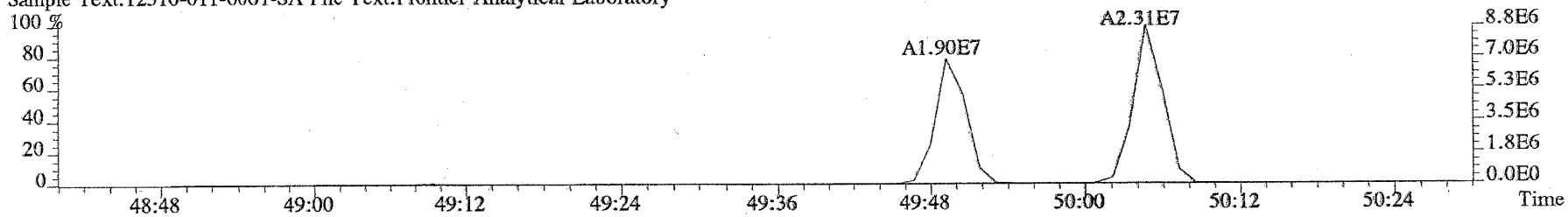
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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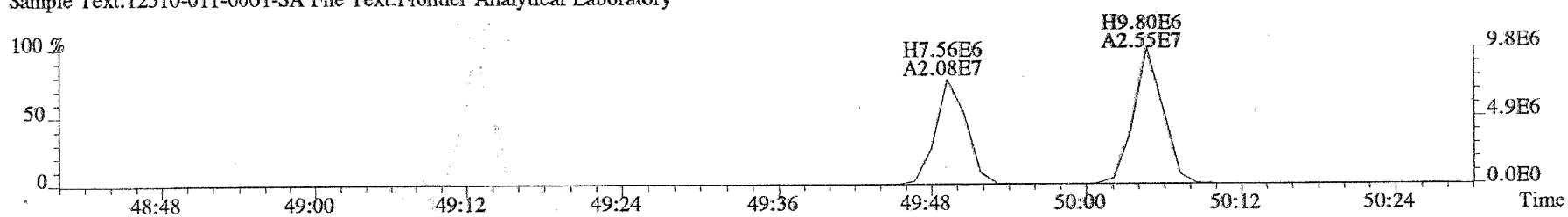
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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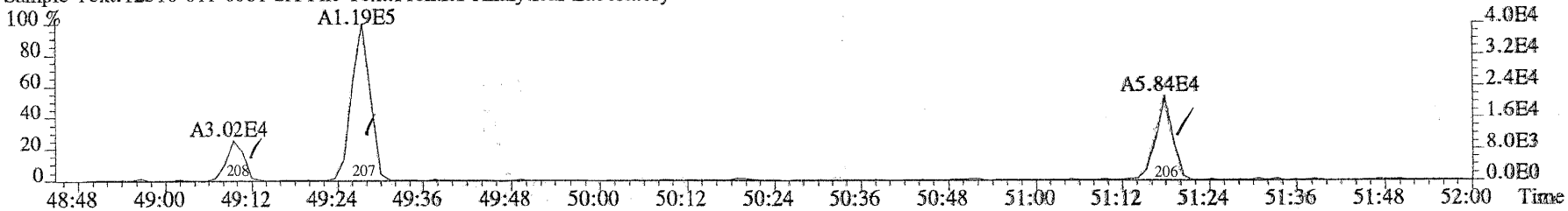
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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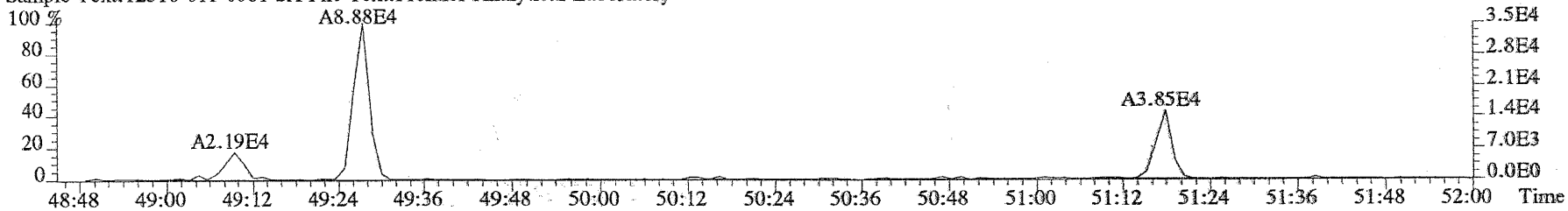
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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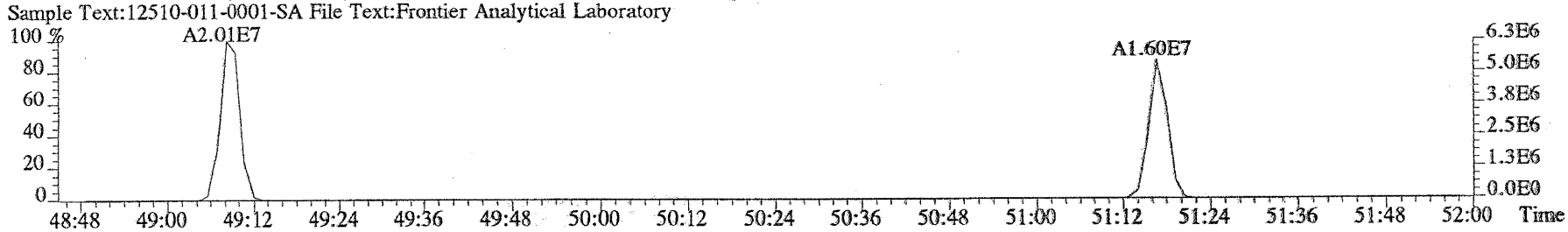
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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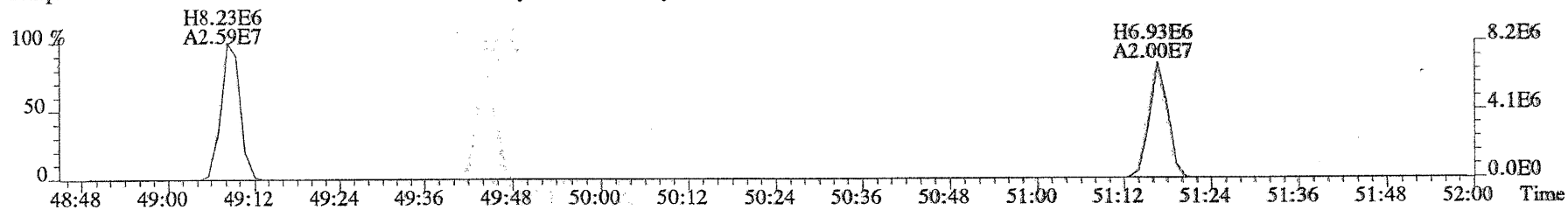
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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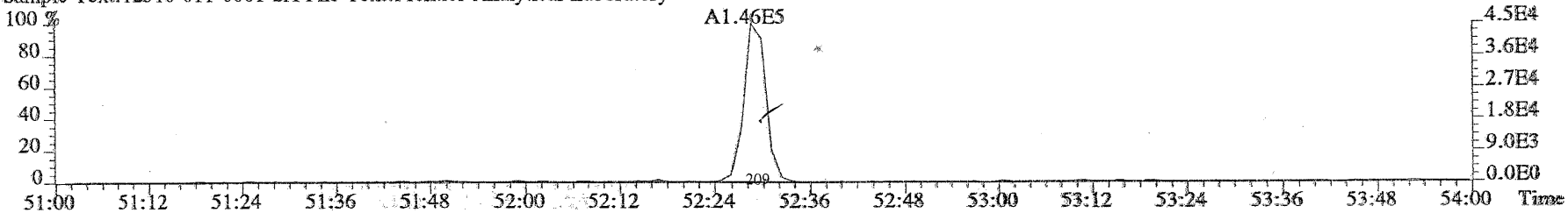
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



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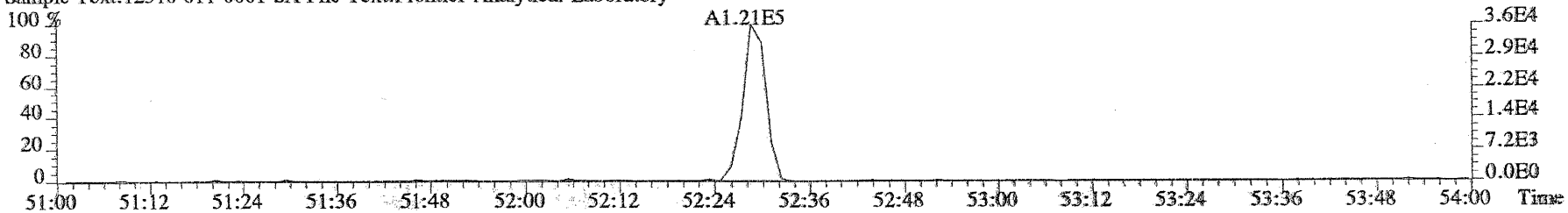

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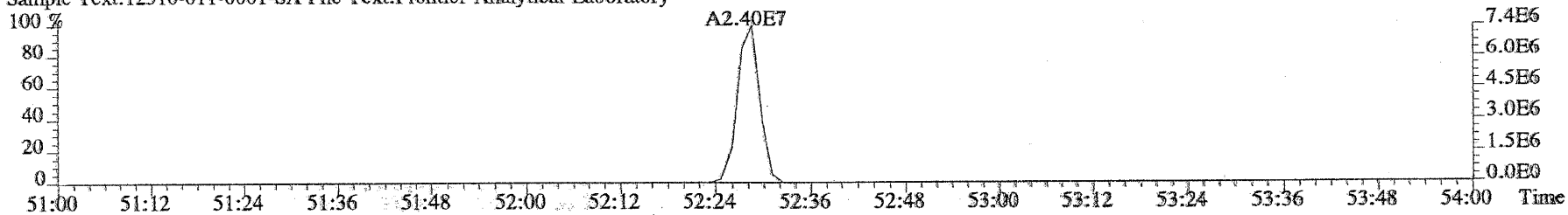
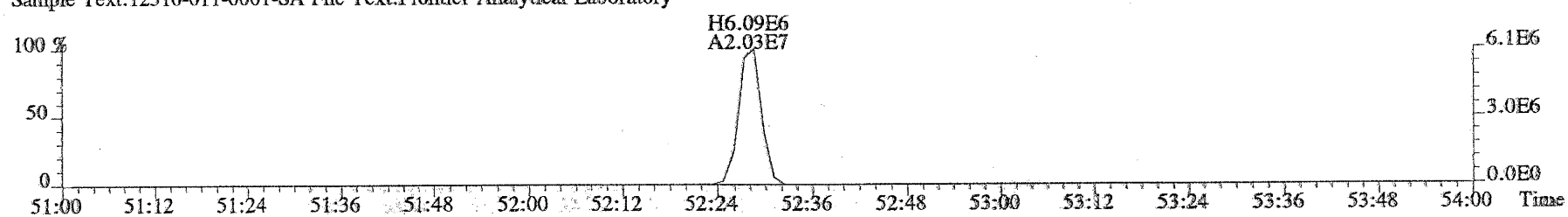
Sample Text:12510-011-0001-SA File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-314 Acq: 1-AUG-2019 09:22:41 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:12510-011-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12510-014-0001-SA Filename: 02AUG19Z Sam:13 Acquired: 2-AUG-19 18:43:46 ICal: DAILY209FAL4-8-2-19
Client ID: LDW-Y2-SU-S010-LCB ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12510-14 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.16	*		672	496	17.6	
13C-PCB-1	4.71e+06	2.98	y	14:30	0.90	1160					11.6
PCB-2	*	*	n	NotFnd	1.17	*		672	496	13.1	
PCB-3	*	*	n	NotFnd	1.14	*		672	496	11.4	
13C-PCB-3	9.60e+06	3.09	y	16:57	0.92	2320					23.2
PCB-4	*	*	n	NotFnd	1.24	*		800	6540	39.8	
PCB-10	*	*	n	NotFnd	1.21	*		800	6540	15.3	
13C-PCB-4	1.31e+07	1.52	y	18:10	0.65	4500					45.0
PCB-9	*	*	n	NotFnd	1.33	*		800	6540	14.0	
PCB-7	*	*	n	NotFnd	1.38	*		800	6540	13.4	
PCB-6	*	*	n	NotFnd	1.41	*		800	6540	13.1	
PCB-8	*	*	n	NotFnd	1.29	*		800	6540	14.3	
PCB-5	*	*	n	NotFnd	1.37	*		800	6540	13.5	
PCB-14	4.72e+06	1.45	y	21:55	1.28	886		-	-	*	
PCB-11	5.49e+05	1.50	y	23:04	1.20	110		-	-	*	
PCB-13	*	*	n	NotFnd	1.23	*		800	6540	15.0	
PCB-12	*	*	n	NotFnd	1.26	*		800	6540	14.7	
PCB-15	*	*	n	NotFnd	1.14	*		800	6540	11.1	
13C-PCB-15	7.01e+07	1.61	y	23:41	0.98	15900	A				159
PCB-19	*	*	n	NotFnd	1.22	*		1950	608	7.90	
PCB-30	*	*	n	NotFnd	1.84	*		1950	608	5.25	
PCB-18	8.93e+04	1.18	y	23:36	1.22	30.0		-	-	*	
PCB-17	4.88e+04	1.12	y	23:46	1.31	15.4	J	-	-	*	
PCB-27	*	*	n	NotFnd	1.79	*		1950	608	5.42	
PCB-24	*	*	n	NotFnd	1.78	*		1950	608	5.44	
PCB-16	3.29e+04	1.19	y	24:45	1.47	9.19	J	-	-	*	
PCB-32	4.88e+04	1.03	y	24:48	1.54	13.0	J	-	-	*	
13C-PCB-19	2.43e+07	1.01	y	22:03	0.46	11800					118
13C-PCB-9	4.49e+07	1.60	y	19:50	-	26.4					
PCB-34	*	*	n	NotFnd	1.26	*		2780	1280	2.61	
PCB-23	*	*	n	NotFnd	1.25	*		2780	1280	2.65	
PCB-29	*	*	n	NotFnd	1.30	*		2780	1280	2.53	
PCB-26	*	*	n	NotFnd	1.28	*		2780	1280	2.58	
PCB-25	*	*	n	NotFnd	1.22	*		2780	1280	2.70	
PCB-31	1.71e+05	1.09	y	26:35	1.25	9.15	J	-	-	*	
PCB-28	1.74e+05	1.17	y	26:41	1.46	8.04	J	-	-	*	
PCB-20	1.25e+05	1.03	y	27:16	1.20	7.04	J	-	-	*	Co-elute PCB 21/33
PCB-21	1.25e+05	1.03	y	27:16	1.20	7.04	J	-	-	*	Co-elute PCB 20/33
PCB-33	1.25e+05	1.03	y	27:16	1.20	7.04	J	-	-	*	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.28	*		2780	1280	2.58	
PCB-36	1.81e+07	1.01	y	28:16	1.18	1030		-	-	*	
PCB-39	*	*	n	NotFnd	1.17	*		2780	1280	2.81	
PCB-38	*	*	n	NotFnd	1.16	*		2780	1280	2.85	
PCB-35	*	*	n	NotFnd	1.07	*		2780	1280	3.07	
PCB-37	*	*	n	NotFnd	1.13	*		2780	1280	2.91	
13C-PCB-37	1.49e+08	1.05	y	30:20	1.48	9350					93.5

PCB-54	*	*	n	NotFnd	1.26	*		584	696	1.71	
PCB-50	4.94e+04	0.84	y	26:41	0.98	9.36	J	-	-	*	
PCB-53	2.77e+04	0.72	y	27:18	0.97	5.29	J	-	-	*	
PCB-51	8.04e+04	0.81	y	27:38	1.00	14.9	J	-	-	*	
PCB-45	3.15e+04	0.87	y	28:02	0.84	6.96	J	-	-	*	
PCB-46	*	*	n	NotFnd	0.80	*		584	696	2.71	
PCB-52	2.91e+05	0.84	y	28:56	0.97	56.1		-	-	*	Co-elute PCB 69
PCB-69	2.91e+05	0.84	y	28:56	0.97	56.1		-	-	*	Co-elute PCB 52
PCB-73	2.24e+05	0.79	y	29:02	1.27	32.8		-	-	*	
PCB-43	1.17e+05	0.81	y	29:13	0.87	25.1		-	-	*	Co-elute PCB 49
PCB-49	1.17e+05	0.81	y	29:13	0.87	25.1		-	-	*	Co-elute PCB 43
PCB-47	3.38e+05	0.80	y	29:25	0.92	68.4		-	-	*	
PCB-48	6.13e+04	0.73	y	29:30	1.07	10.6	J	-	-	*	Co-elute PCB 75
PCB-75	6.13e+04	0.73	y	29:30	1.07	10.6	J	-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.06	*		584	696	2.03	
PCB-62	*	*	n	NotFnd	1.16	*		584	696	1.86	
PCB-44	1.57e+05	0.78	y	30:09	0.72	40.5		-	-	*	
PCB-42	5.90e+04	0.85	y	30:22	0.94	11.6	J	-	-	*	Co-elute PCB 59
PCB-59	5.90e+04	0.85	y	30:22	0.94	11.6	J	-	-	*	Co-elute PCB 42
PCB-72	1.45e+05	0.70	y	30:56	1.06	25.5		-	-	*	Co-elute PCB 41/71/64
PCB-41	1.45e+05	0.70	y	30:56	1.06	25.5		-	-	*	Co-elute PCB 72/71/64
PCB-71	1.45e+05	0.70	y	30:56	1.06	25.5		-	-	*	Co-elute PCB 72/41/64
PCB-64	1.45e+05	0.70	y	30:56	1.06	25.5		-	-	*	Co-elute PCB 72/41/71
PCB-68	2.18e+05	0.79	y	31:11	1.21	33.6		-	-	*	
PCB-40	3.26e+04	0.84	y	31:22	0.66	9.23	J	-	-	*	
PCB-57	*	*	n	NotFnd	1.09	*		584	696	1.98	
PCB-67	*	*	n	NotFnd	1.08	*		584	696	2.00	
PCB-58	*	*	n	NotFnd	1.10	*		584	696	1.96	
PCB-63	*	*	n	NotFnd	1.10	*		584	696	1.96	
PCB-74	6.40e+04	0.88	y	32:34	1.08	11.1	J	-	-	*	
PCB-61	1.39e+05	0.85	y	32:46	1.03	25.1		-	-	*	Co-elute PCB 70
PCB-70	1.39e+05	0.85	y	32:46	1.03	25.1		-	-	*	Co-elute PCB 61
PCB-76	9.19e+04	0.80	y	32:58	1.13	15.1	J	-	-	*	Co-elute PCB 66
PCB-66	9.19e+04	0.80	y	32:58	1.13	15.1	J	-	-	*	Co-elute PCB 76
PCB-80	1.68e+05	0.74	y	33:08	1.30	24.0		-	-	*	
PCB-55	8.55e+05	0.81	y	33:28	1.13	141		-	-	*	
13C-PCB-54	5.38e+07	0.82	y	25:34	1.20	4180					41.8
PCB-104	3.03e+07	1.57	y	30:01	1.11	2700		-	-	*	
PCB-96	*	*	n	NotFnd	1.05	*		352	304	0.595	
PCB-103	*	*	n	NotFnd	0.84	*		352	304	0.739	
PCB-100	7.85e+04	1.76	y	32:03	0.83	9.28	J	-	-	*	
PCB-94	*	*	n	NotFnd	0.69	*		352	304	0.906	
PCB-98	*	*	n	NotFnd	0.72	*		352	304	0.869	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.72	*		352	304	0.869	Co-elute PCB 98
PCB-95	1.50e+05	1.71	y	33:01	0.71	20.7		-	-	*	
PCB-93	4.64e+05	1.53	y	33:05	0.69	65.9		-	-	*	
PCB-88	*	*	n	NotFnd	0.77	*		352	304	0.812	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.77	*		352	304	0.812	Co-elute PCB 88
PCB-121	5.81e+07	1.56	y	33:28	0.93	6190		-	-	*	
13C-PCB-104	1.01e+08	1.58	y	29:59	0.92	10200					102
13C-PCB-28	1.36e+08	1.03	y	26:38	1.83	6900					69.0
13C-PCB-52	1.08e+08	0.82	y	28:54	-	133					

PCB-56	*	*	n	NotFnd	1.26	*		1700	4100	2.91	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.26	*		1700	4100	2.91	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.19	*		1700	4100	3.09	
PCB-78	6.44e+07	0.79	y	35:35	1.10	3260		1700	4100	3.34	
PCB-81	*	*	n	NotFnd	1.24	*		1700	4100	2.95	
13C-PCB-81	1.79e+08	0.80	y	36:04	1.38	10700					107
PCB-77	*	*	n	NotFnd	1.05	*		1700	4100	3.53	
13C-PCB-77	1.80e+08	0.80	y	36:39	1.43	10400					104
PCB-155	5.81e+07	1.27	y	34:09	1.03	4190		-	-	*	
PCB-150	*	*	n	NotFnd	0.99	*		704	624	1.03	
PCB-152	*	*	n	NotFnd	0.90	*		704	624	1.13	
PCB-145	*	*	n	NotFnd	0.86	*		704	624	1.19	
PCB-136	*	*	n	NotFnd	0.81	*		704	624	1.26	
PCB-148	*	*	n	NotFnd	0.60	*		704	624	1.68	
PCB-154	1.45e+05	1.11	y	37:06	0.68	15.9	J	-	-	*	
13C-PCB-155	1.35e+08	1.27	y	34:08	1.23	8990					89.9
13C-PCB-111	1.32e+08	1.61	y	36:13	1.08	10000					100
13C-PCB-101	1.22e+08	1.63	y	34:35	-	196					
PCB-84	7.89e+04	1.39	y	34:14	0.87	5.38	J	-	-	*	Co-elute PCB 92
PCB-92	7.89e+04	1.39	y	34:14	0.87	5.38	J	-	-	*	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.87	*		970	874	1.42	
PCB-90	1.89e+05	1.61	y	34:36	0.98	11.5	J	-	-	*	Co-elute PCB 101
PCB-101	1.89e+05	1.61	y	34:36	0.98	11.5	J	-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*		970	874	1.13	
PCB-99	7.34e+04	1.75	y	34:55	1.12	3.92	J	-	-	*	
PCB-119	*	*	n	NotFnd	1.20	*		970	874	1.03	
PCB-83	*	*	n	NotFnd	0.88	*		970	874	1.41	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.88	*		970	874	1.41	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.06	*		970	874	1.17	
PCB-97	4.13e+04	1.36	y	35:51	0.72	3.43	J	-	-	*	
PCB-86	7.74e+04	1.46	y	35:59	0.71	6.49	J	-	-	*	
PCB-125	6.96e+04	1.59	y	36:07	0.95	4.36	J	-	-	*	Co-elute PCB 87/117
PCB-87	6.96e+04	1.59	y	36:07	0.95	4.36	J	-	-	*	Co-elute PCB 125/117
PCB-117	6.96e+04	1.59	y	36:07	0.95	4.36	J	-	-	*	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.15	*		970	874	1.08	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.15	*		970	874	1.08	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.87	*		970	874	1.43	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.87	*		970	874	1.43	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.13	*		970	874	1.10	
PCB-110	1.67e+05	1.54	y	36:45	1.04	9.62	J	-	-	*	
PCB-82	*	*	n	NotFnd	0.60	*		970	874	2.06	
PCB-124	*	*	n	NotFnd	1.04	*		800	944	1.13	
PCB-108	*	*	n	NotFnd	1.10	*		800	944	1.06	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.10	*		800	944	1.06	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.05	*		800	944	1.14	
13C-PCB-123	1.64e+08	1.58	y	38:15	1.31	9020					90.2
PCB-118	8.44e+04	1.40	y	38:27	1.04	4.65	J	-	-	*	Co-elute PCB 106
PCB-106	8.44e+04	1.40	y	38:27	1.04	4.65	J	-	-	*	Co-elute PCB 118
13C-PCB-118	1.74e+08	1.58	y	38:27	1.51	8360					83.6
PCB-114	*	*	n	NotFnd	1.11	*		800	944	1.09	
13C-PCB-114	1.69e+08	1.59	y	39:03	1.42	8640					86.4
PCB-122	*	*	n	NotFnd	1.07	*		800	944	1.09	
PCB-105	*	*	n	NotFnd	1.13	*		800	944	1.02	
13C-PCB-105	1.64e+08	1.60	y	39:52	1.44	8240					82.4

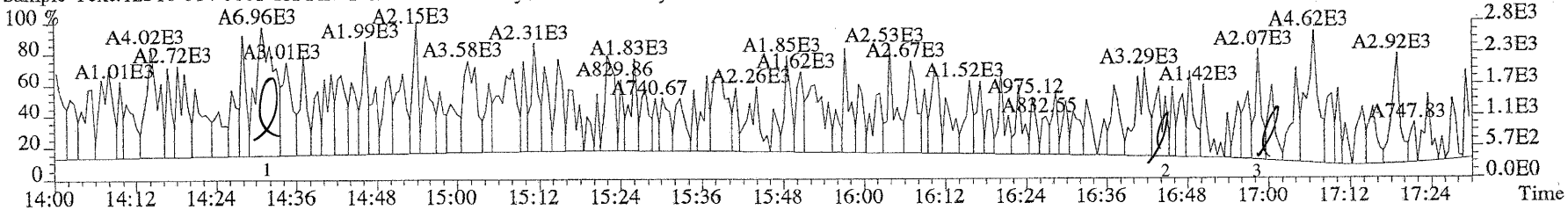
PCB-127	*	*	n	NotFnd	1.05	*		800	944	1.12	
PCB-126	*	*	n	NotFnd	1.08	*		800	944	1.21	
13C-PCB-126	1.59e+08	1.59	y	41:59	1.36	8470					84.7
PCB-151	*	*	n	NotFnd	0.76	*		760	712	1.57	
PCB-135	*	*	n	NotFnd	0.78	*		760	712	1.52	
PCB-144	*	*	n	NotFnd	0.80	*		760	712	1.48	
PCB-147	*	*	n	NotFnd	0.92	*		760	712	1.30	
PCB-139	8.31e+04	1.42	y	38:23	0.89	7.22	J	-	-	*	Co-elute PCB 149
PCB-149	8.31e+04	1.42	y	38:23	0.89	7.22	J	-	-	*	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.87	*		760	712	1.38	
PCB-143	*	*	n	NotFnd	0.75	*		760	712	1.59	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.75	*		760	712	1.59	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.72	*		760	712	1.66	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.72	*		760	712	1.66	Co-elute PCB 131
PCB-142	1.40e+08	1.26	y	39:26	0.74	14700		-	-	*	
PCB-165	*	*	n	NotFnd	1.01	*		760	712	1.18	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.01	*		760	712	1.18	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	0.94	*		760	712	1.27	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	0.94	*		760	712	1.27	Co-elute PCB 161
PCB-153	1.20e+06	1.29	y	40:05	0.96	97.1		-	-	*	
PCB-168	*	*	n	NotFnd	1.09	*		760	712	1.09	
PCB-141	*	*	n	NotFnd	0.79	*		760	712	1.50	
PCB-137	*	*	n	NotFnd	0.83	*		760	712	1.43	
PCB-130	*	*	n	NotFnd	0.69	*		760	712	1.72	
PCB-138	6.55e+04	1.26	y	41:31	1.03	4.94	J	-	-	*	Co-elute PCB 163/164
PCB-163	6.55e+04	1.26	y	41:31	1.03	4.94	J	-	-	*	Co-elute PCB 138/164
PCB-164	6.55e+04	1.26	y	41:31	1.03	4.94	J	-	-	*	Co-elute PCB 138/163
PCB-158	4.95e+04	1.28	y	41:48	1.13	3.40	J	-	-	*	Co-elute PCB 160
PCB-160	4.95e+04	1.28	y	41:48	1.13	3.40	J	-	-	*	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.70	*		760	712	1.71	
PCB-166	*	*	n	NotFnd	1.09	*		760	712	1.09	
PCB-159	8.02e+04	1.24	y	42:43	1.17	5.31	J	-	-	*	
PCB-128	*	*	n	NotFnd	0.93	*		760	712	1.28	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.93	*		760	712	1.28	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	1.11	*		760	712	0.992	
13C-PCB-167	1.34e+08	1.28	y	43:21	1.22	7980					79.8
PCB-156	*	*	n	NotFnd	1.20	*		760	712	1.13	
13C-PCB-156	1.25e+08	1.29	y	44:35	1.23	7350					73.5
PCB-157	*	*	n	NotFnd	1.11	*		760	712	1.14	
13C-PCB-157	1.30e+08	1.33	y	44:50	1.25	7560					75.6
PCB-169	*	*	n	NotFnd	1.05	*		760	712	1.01	
13C-PCB-169	1.28e+08	1.35	y	46:42	1.28	7260					72.6

FAL ID: 12510-014-0001-SA Filename: 02AUG19Z Sam:13 Acquired: 2-AUG-19 18:43:46 ICal: DAILY209FAL4-8-2-19
Client ID: LDW-Y2-SU-S010-LCB ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12510-14 GC Column: DB1MS Amount: 1.000

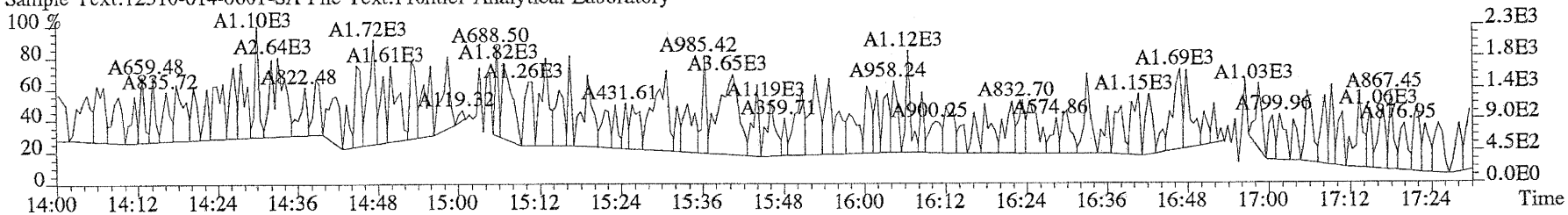
PCB-188	5.51e+04	1.10	y	39:39	1.07	3.92	J	-	-	*	
13C-PCB-188	1.31e+08	1.05	y	39:37	1.05	9050					90.5
PCB-184	7.49e+07	1.06	y	40:05	1.06	5650		-	-	*	
PCB-179	*	*	n	NotFnd	1.03	*		1040	564	1.18	
PCB-176	*	*	n	NotFnd	1.03	*		1040	564	1.18	
PCB-186	6.16e+04	1.06	y	41:51	1.02	4.80	J	-	-	*	
PCB-178	*	*	n	NotFnd	0.66	*		1040	564	1.84	
PCB-175	*	*	n	NotFnd	0.78	*		1040	564	1.56	
PCB-187	4.48e+04	0.96	y	42:47	0.83	4.31	J	-	-	*	Co-elute PCB 182
PCB-182	4.48e+04	0.96	y	42:47	0.83	4.31	J	-	-	*	Co-elute PCB 187
PCB-183	7.19e+04	1.16	y	43:05	0.81	7.07	J	-	-	*	
PCB-185	*	*	n	NotFnd	0.72	*		1040	564	1.67	
PCB-174	*	*	n	NotFnd	0.72	*		1040	564	1.69	
PCB-181	7.61e+04	1.12	y	44:09	0.81	7.45	J	-	-	*	
PCB-177	*	*	n	NotFnd	0.65	*		1040	564	1.87	
PCB-171	*	*	n	NotFnd	0.76	*		1040	564	1.60	
PCB-173	*	*	n	NotFnd	0.69	*		1040	564	1.76	
PCB-172	1.28e+06	1.09	y	45:22	0.73	139		-	-	*	
PCB-192	4.47e+07	1.07	y	45:33	0.96	3690		-	-	*	
PCB-180	*	*	n	NotFnd	0.73	*		1040	564	1.66	
PCB-193	*	*	n	NotFnd	1.03	*		1040	564	1.17	
PCB-191	*	*	n	NotFnd	1.02	*		1040	564	1.19	
PCB-170	*	*	n	NotFnd	0.73	*		1040	564	1.66	
PCB-190	*	*	n	NotFnd	1.05	*		1040	564	1.16	
PCB-189	*	*	n	NotFnd	1.06	*		1040	564	0.964	
13C-PCB-189	1.20e+08	1.07	y	48:23	1.06	8210					82.1
PCB-202	*	*	n	NotFnd	1.05	*		360	652	1.19	
PCB-201	*	*	n	NotFnd	1.01	*		360	652	1.24	
PCB-204	1.10e+08	0.91	y	45:22	1.13	10400		-	-	*	
PCB-197	4.19e+05	0.99	y	45:38	1.10	40.8		-	-	*	
PCB-200	*	*	n	NotFnd	1.04	*		360	652	1.20	
PCB-198	*	*	n	NotFnd	0.76	*		360	652	1.65	
PCB-199	*	*	n	NotFnd	0.86	*		360	652	1.45	
PCB-203	*	*	n	NotFnd	0.93	*		360	652	1.34	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.93	*		360	652	1.34	Co-elute PCB 203
13C-PCB-202	9.37e+07	0.90	y	44:45	0.85	7990					79.9
13C-PCB-178	8.48e+07	1.06	y	42:16	0.66	9250					92.5
13C-PCB-138	1.38e+08	1.27	y	41:29	-	272					
PCB-195	*	*	n	NotFnd	0.78	*		1640	1170	1.67	
PCB-194	*	*	n	NotFnd	0.85	*		1640	1170	1.53	
PCB-205	*	*	n	NotFnd	1.10	*		1640	1170	1.18	
13C-PCB-205	1.47e+08	0.90	y	50:02	1.30	8410					84.1
PCB-208	*	*	n	NotFnd	1.06	*		1800	2100	1.85	
13C-PCB-208	1.37e+08	0.80	y	49:06	1.20	8480					84.8
PCB-207	4.99e+05	1.35	y	49:25	1.18	35.8		-	-	*	
PCB-206	*	*	n	NotFnd	1.07	*		1800	2100	2.60	
13C-PCB-206	1.00e+08	0.80	y	51:14	0.94	7940					79.4
PCB-209	5.77e+05	1.15	y	52:26	1.12	42.7		-	-	*	
13C-PCB-209	1.21e+08	1.20	y	52:25	1.22	7400					74.0
13C-PCB-194	1.34e+08	0.91	y	49:47	-	262					

Analyst: [illegible] Date: 8/6/19

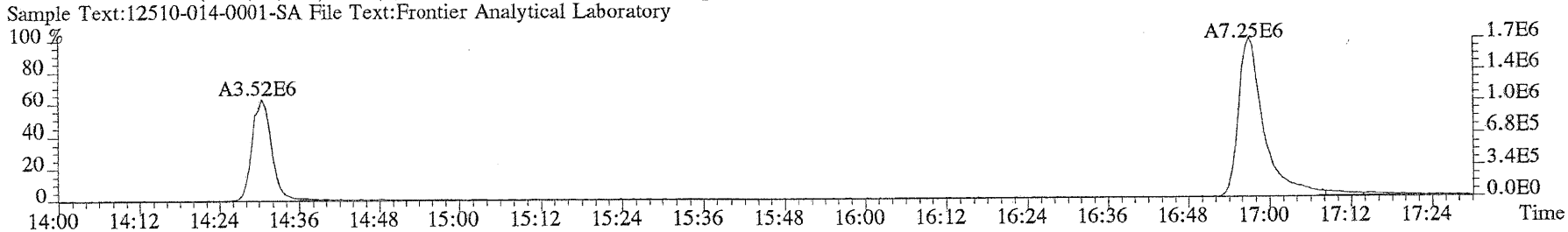
File:02AUG19Z #1-784 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



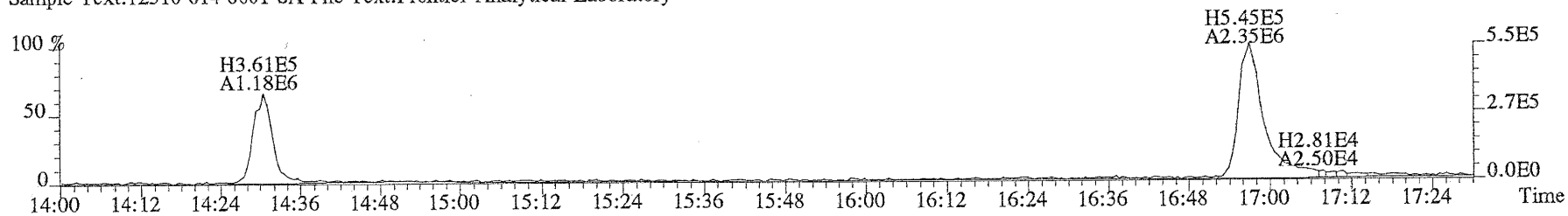
File:02AUG19Z #1-784 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



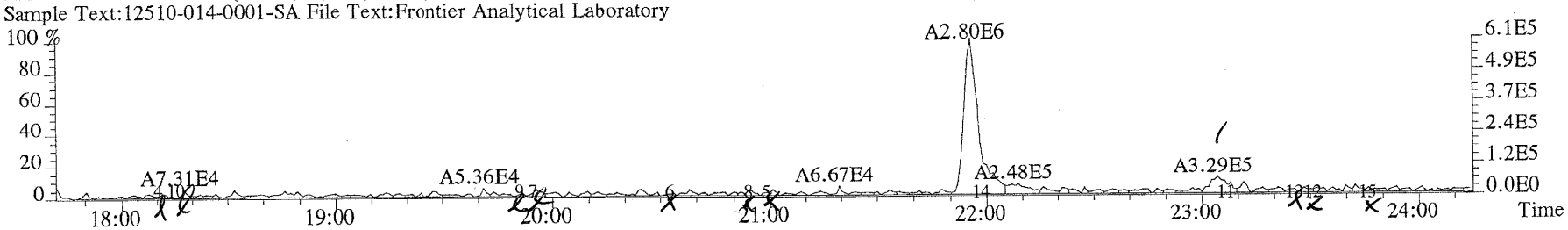
File:02AUG19Z #1-784 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



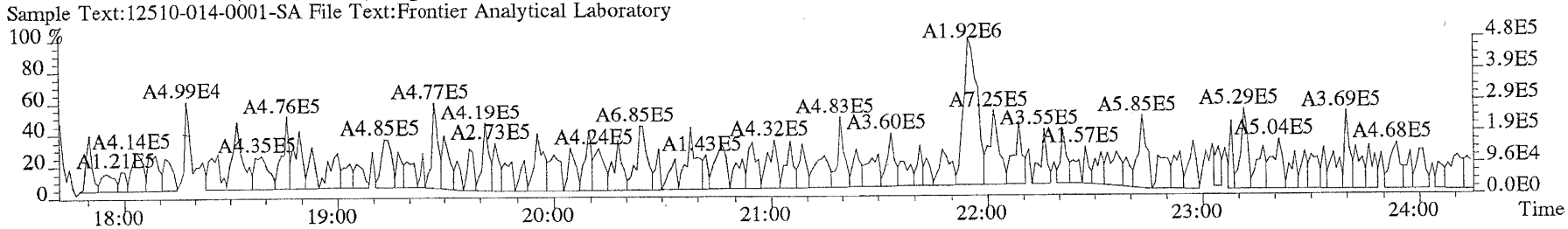
File:02AUG19Z #1-784 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



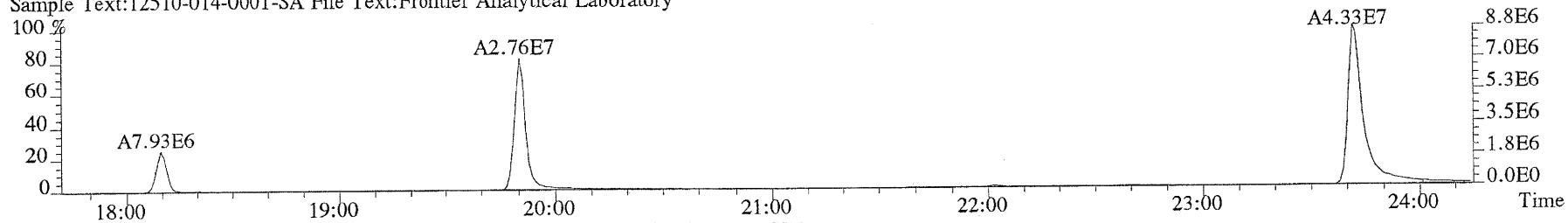
File:02AUG19Z #1-520 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



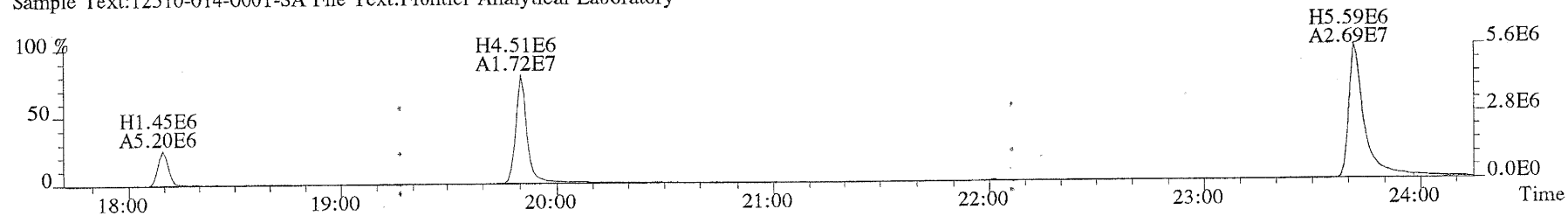
File:02AUG19Z #1-520 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:13 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



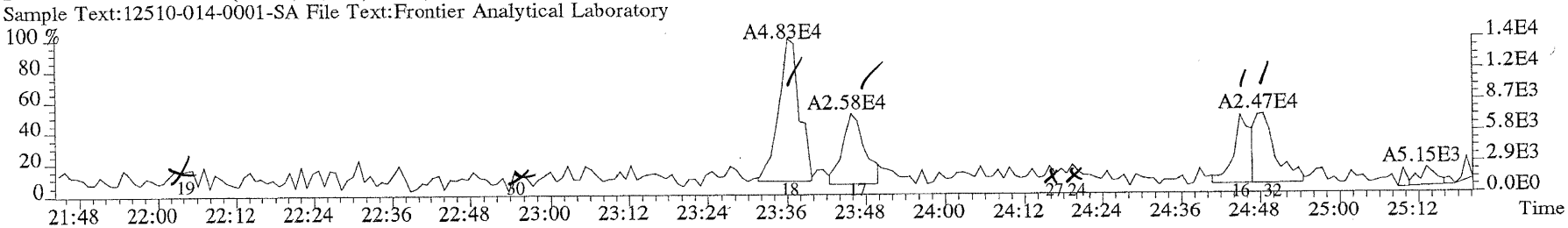
File:02AUG19Z #1-520 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



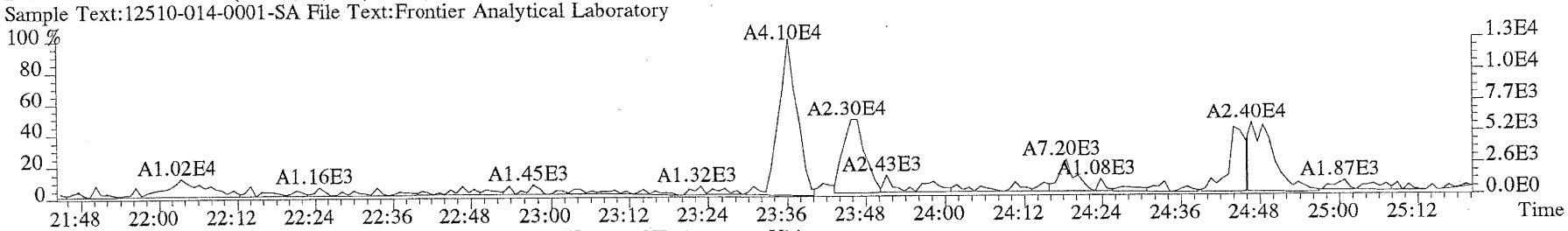
File:02AUG19Z #1-520 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



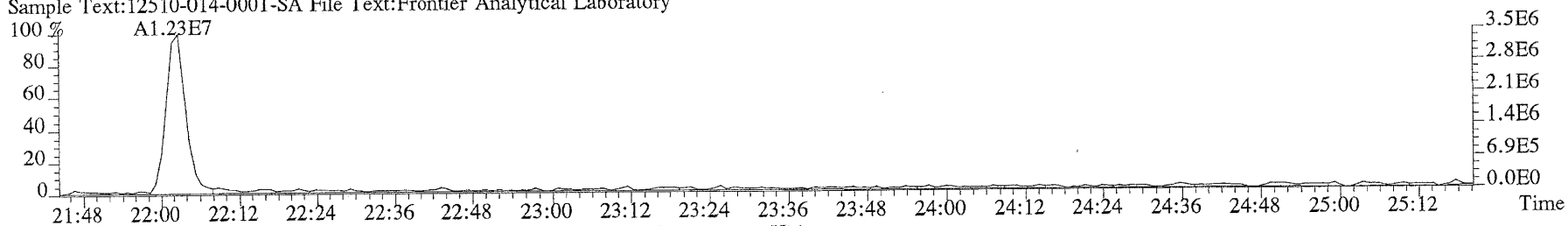
File:02AUG19Z #1-520 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



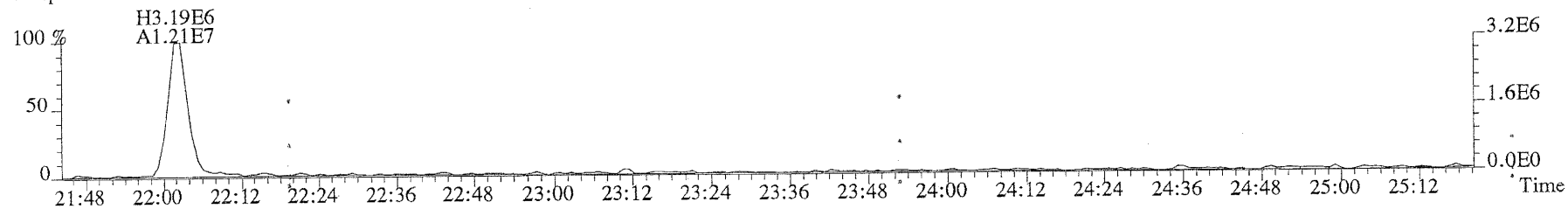
File:02AUG19Z #1-520 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



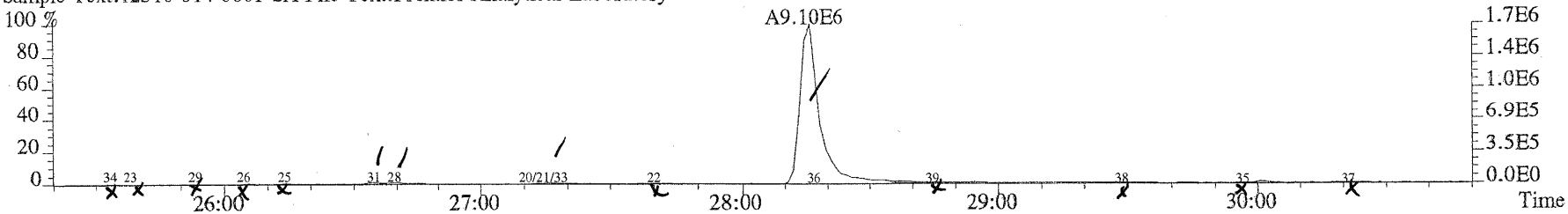
File:02AUG19Z #1-520 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



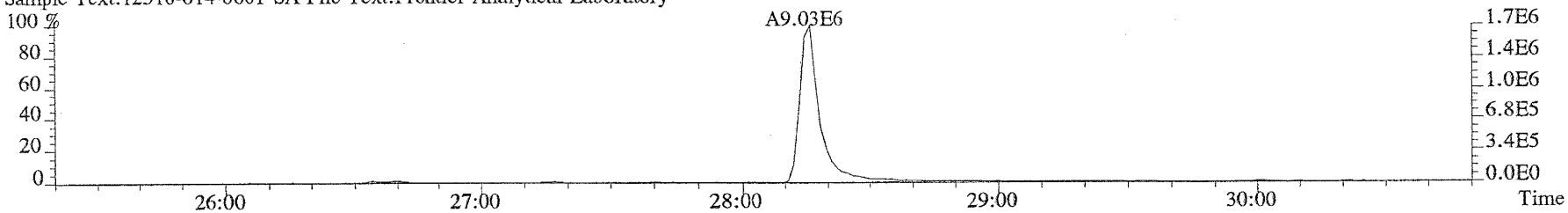
File:02AUG19Z #1-520 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



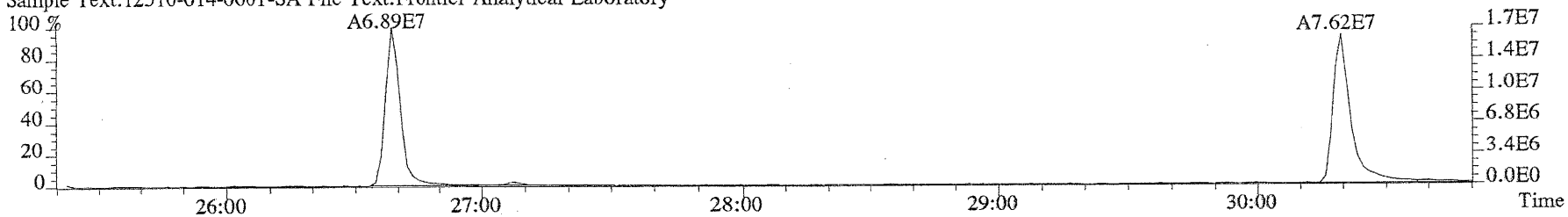
File:02AUG19Z #1-401 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



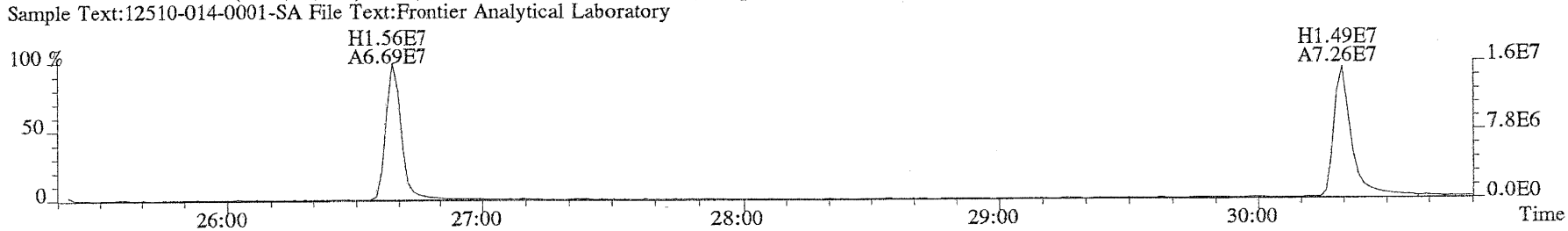
File:02AUG19Z #1-401 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



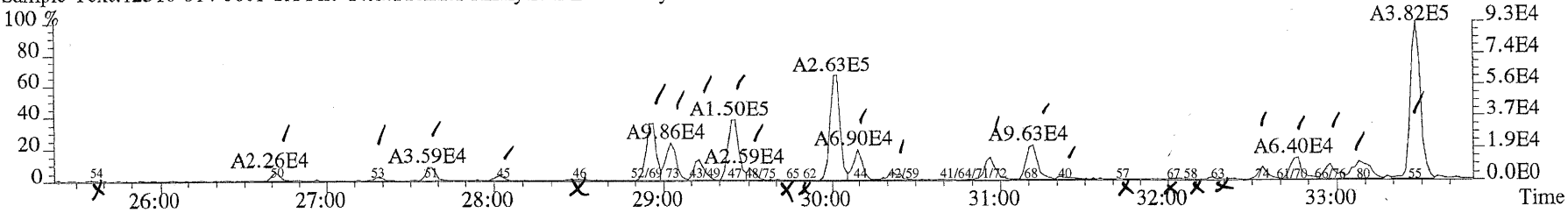
File:02AUG19Z #1-401 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



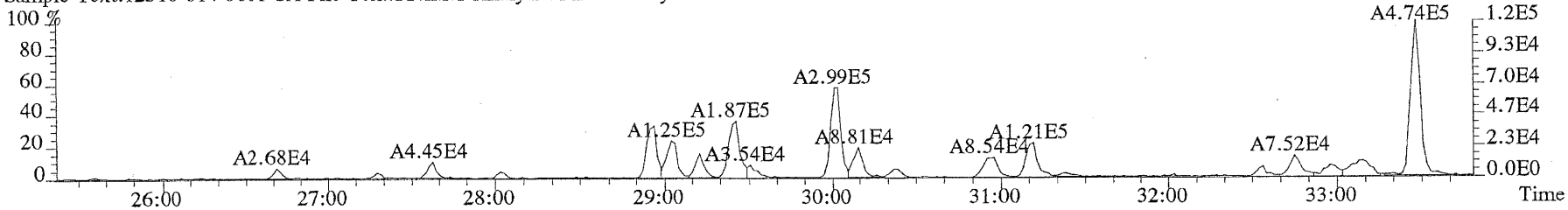
File:02AUG19Z #1-401 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



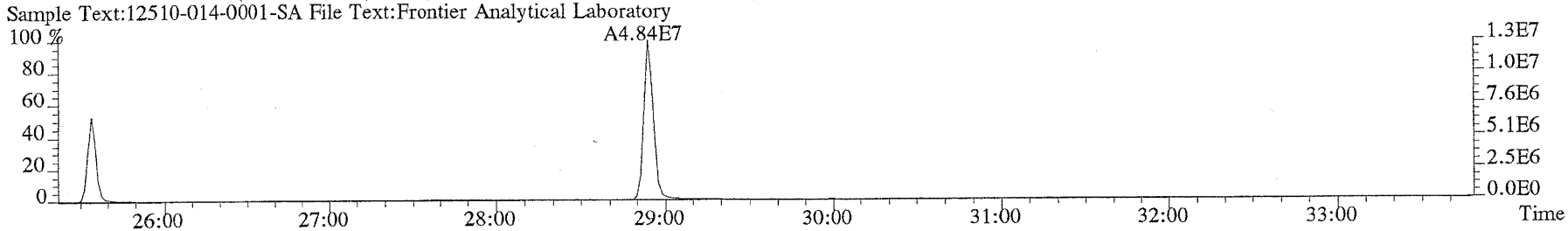
File:02AUG19Z #1-401 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



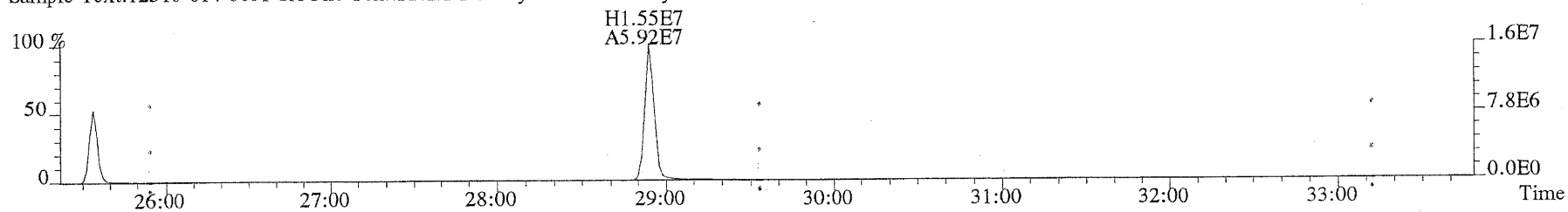
File:02AUG19Z #1-401 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



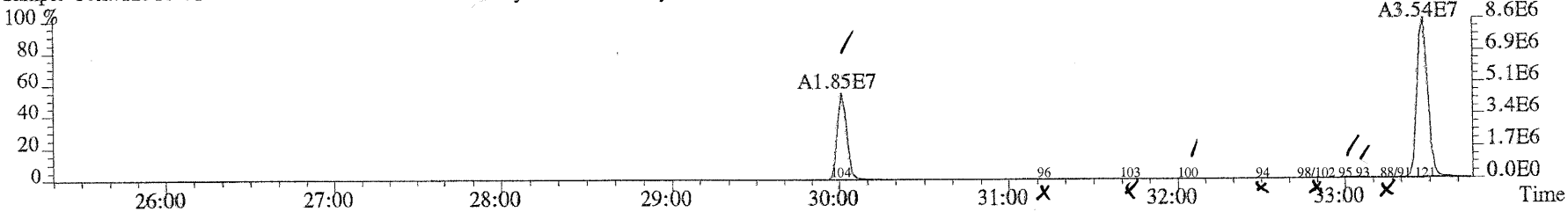
File:02AUG19Z #1-401 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



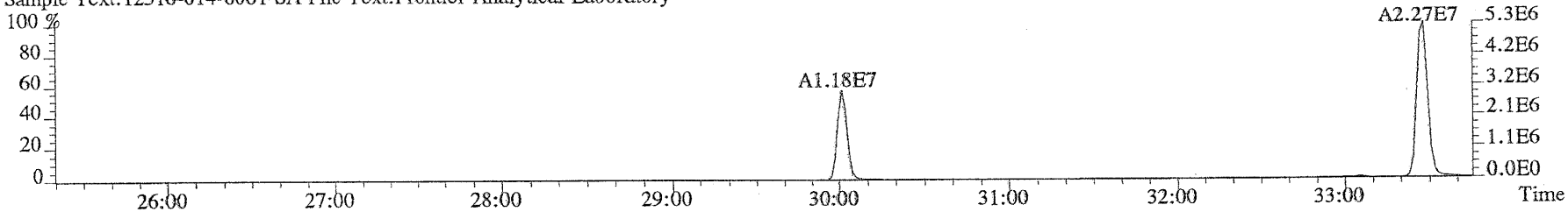
File:02AUG19Z #1-401 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



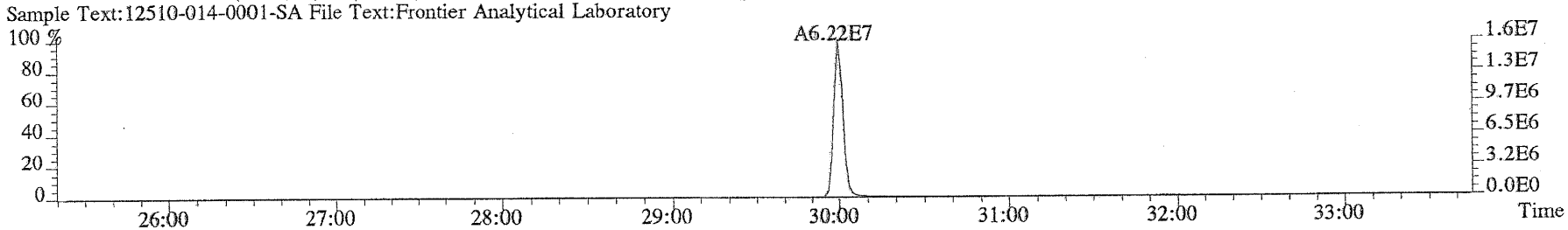
File:02AUG19Z #1-401 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



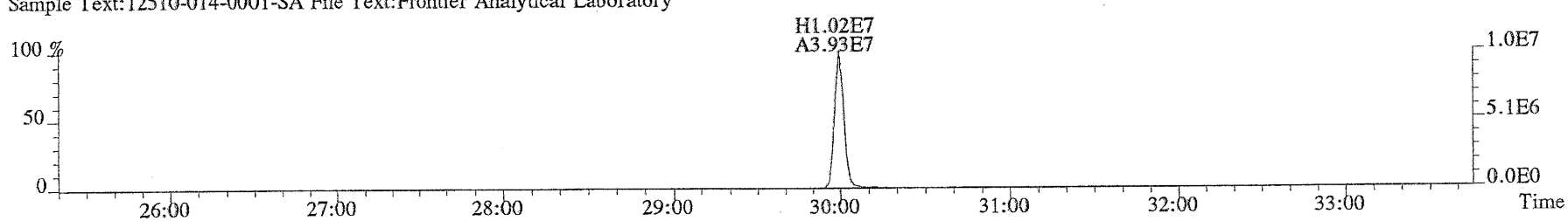
File:02AUG19Z #1-401 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



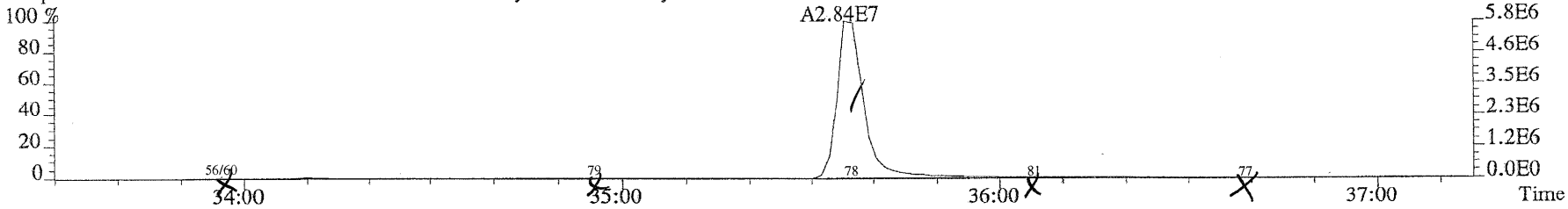
File:02AUG19Z #1-401 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



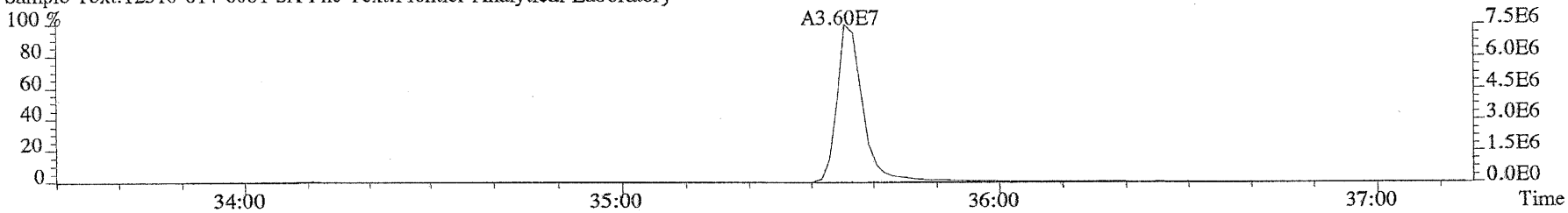
File:02AUG19Z #1-401 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



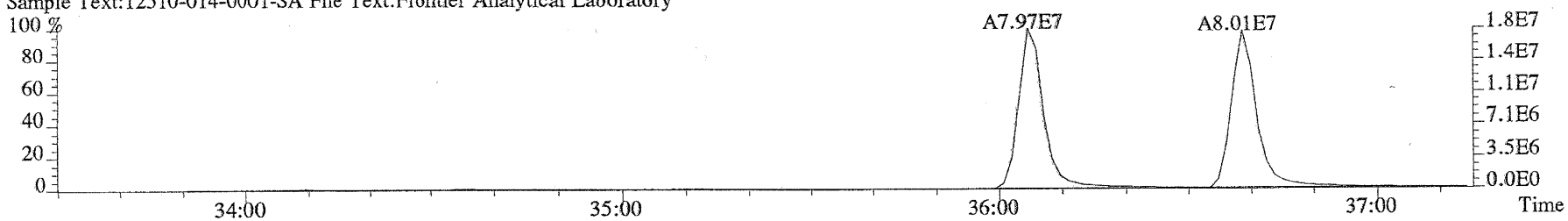
File:02AUG19Z #1-181 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



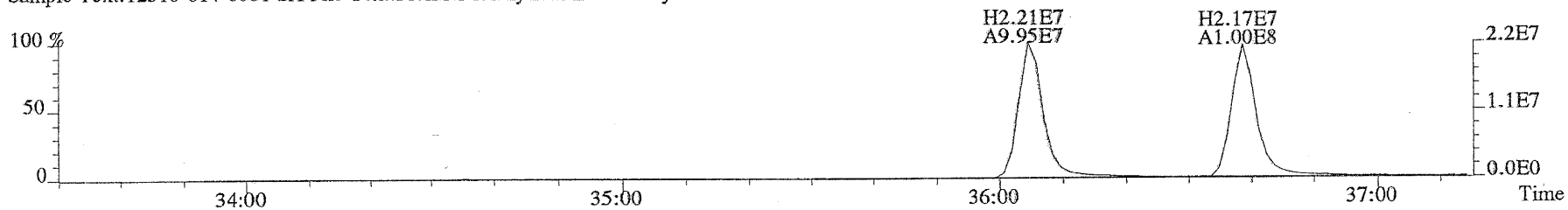
File:02AUG19Z #1-181 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



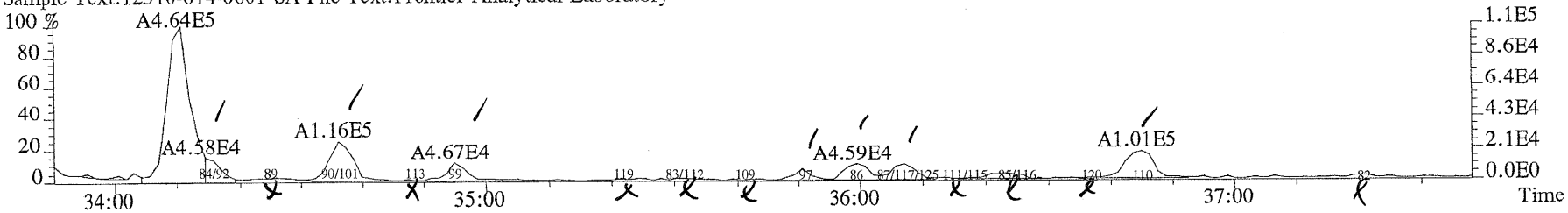
File:02AUG19Z #1-181 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



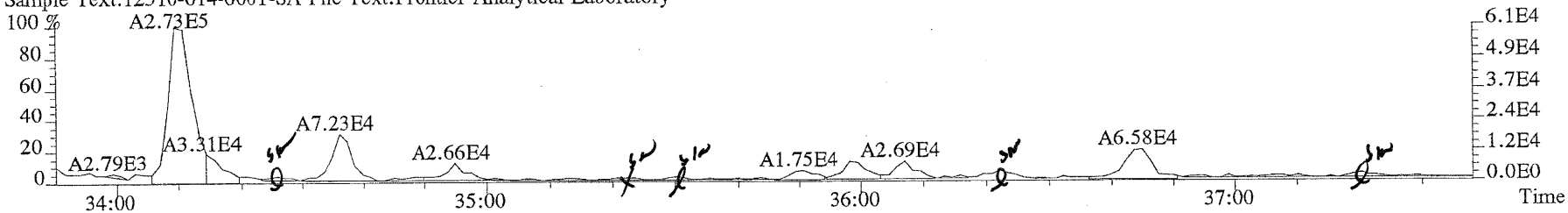
File:02AUG19Z #1-181 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



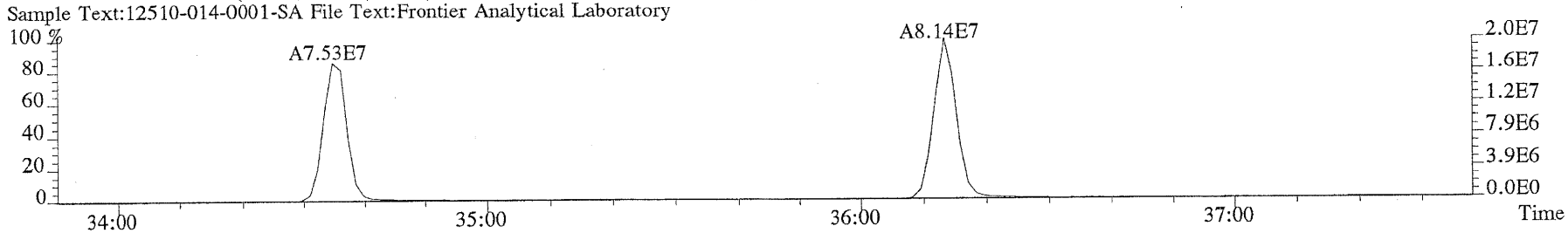
File:02AUG19Z #1-181 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



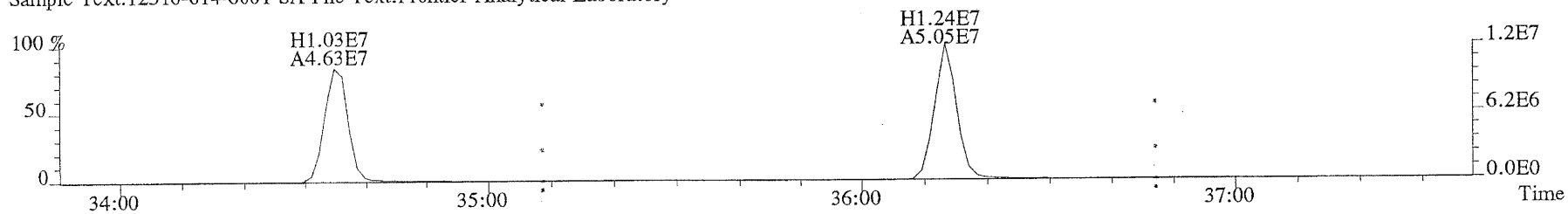
File:02AUG19Z #1-181 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



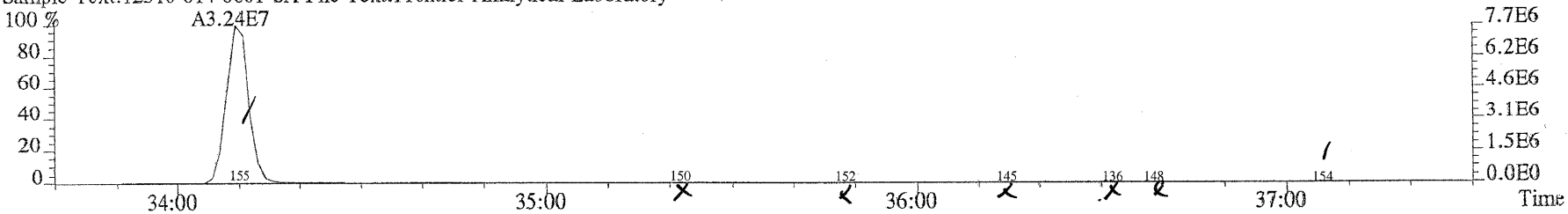
File:02AUG19Z #1-181 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



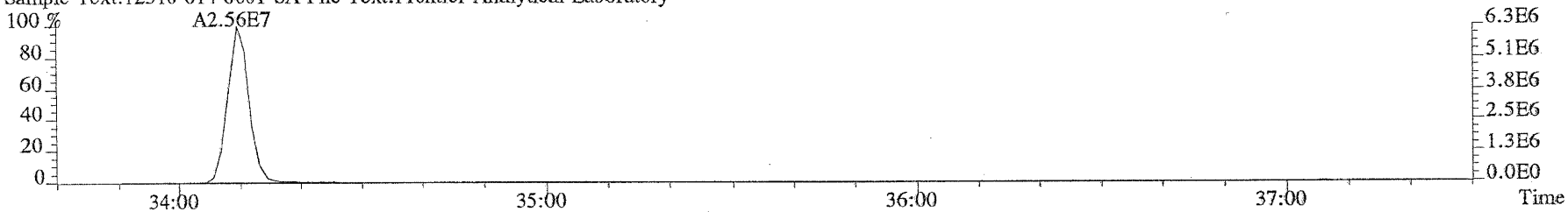
File:02AUG19Z #1-181 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



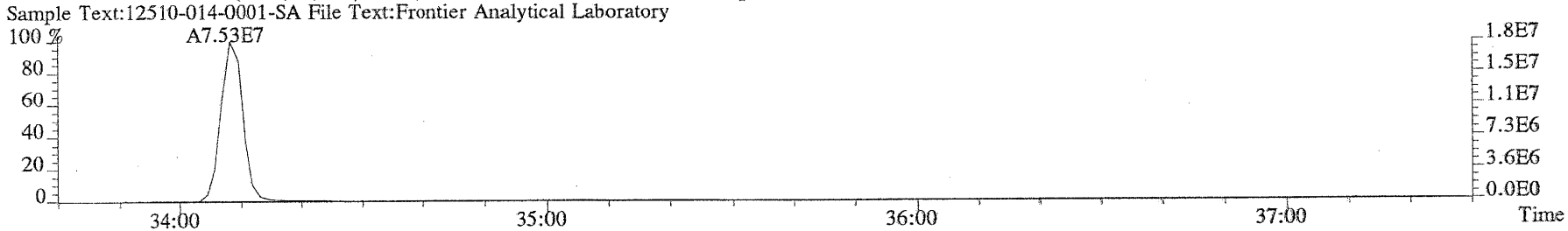
File:02AUG19Z #1-181 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



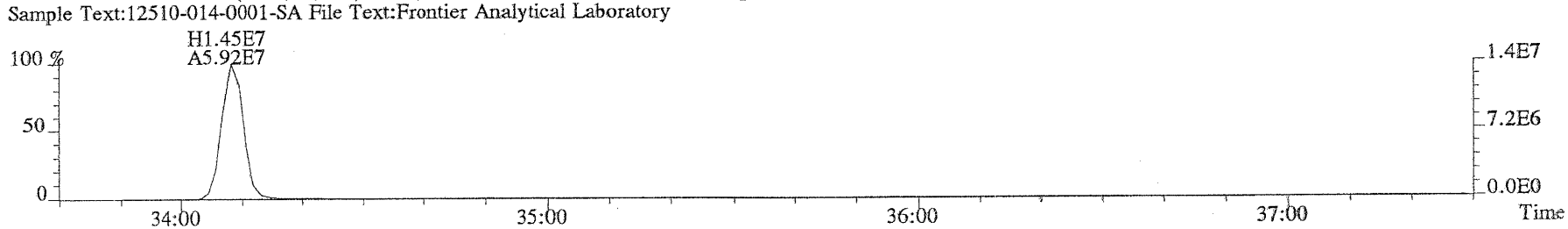
File:02AUG19Z #1-181 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



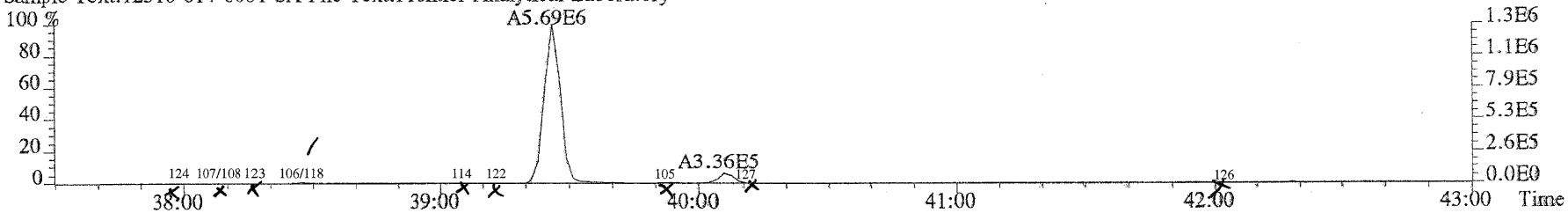
File:02AUG19Z #1-181 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



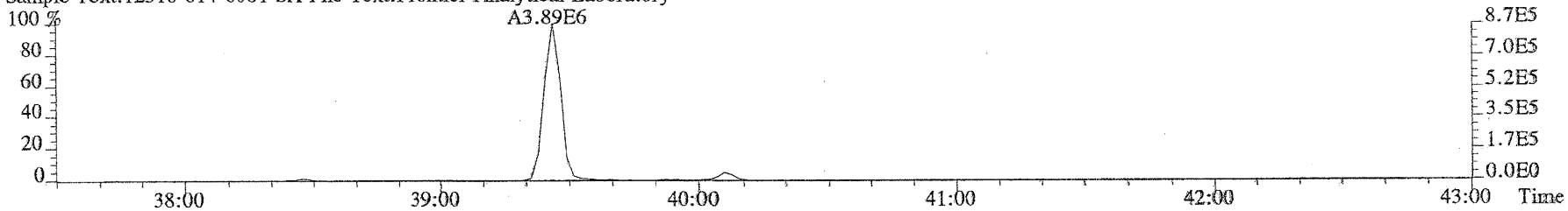
File:02AUG19Z #1-181 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



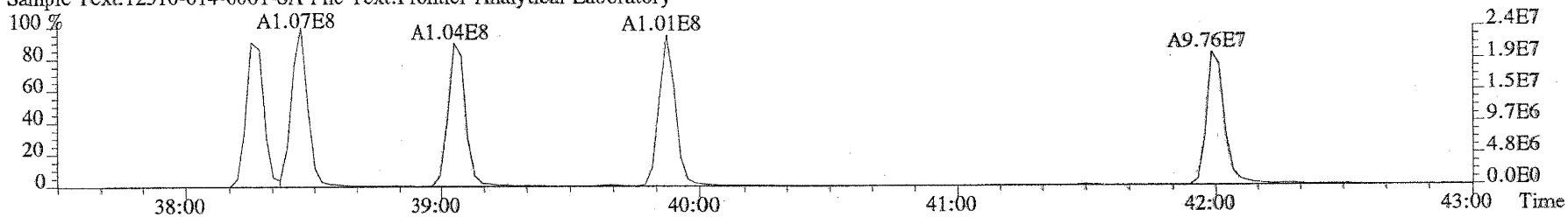
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



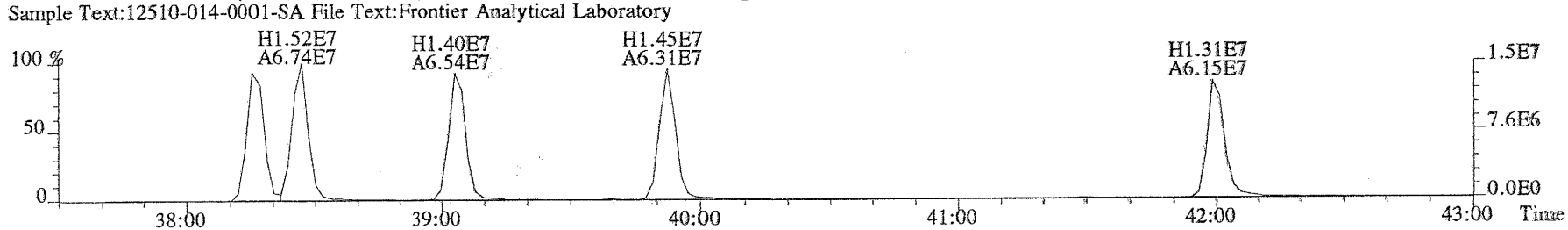
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



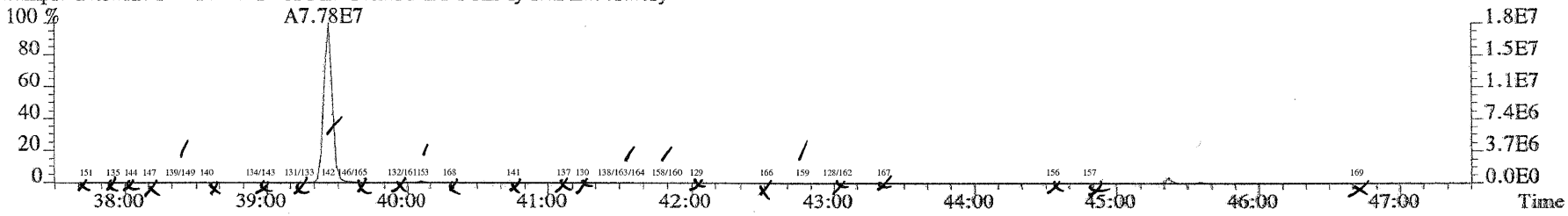
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



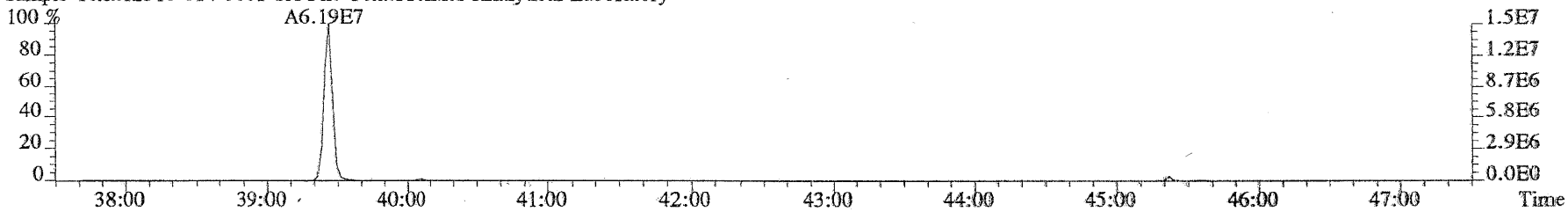
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



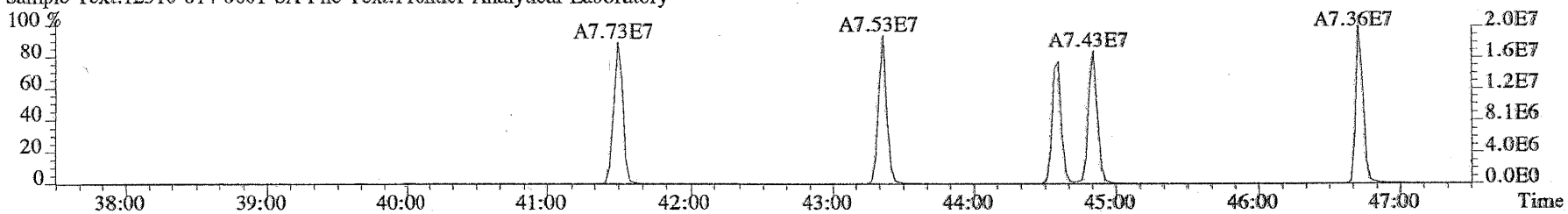
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



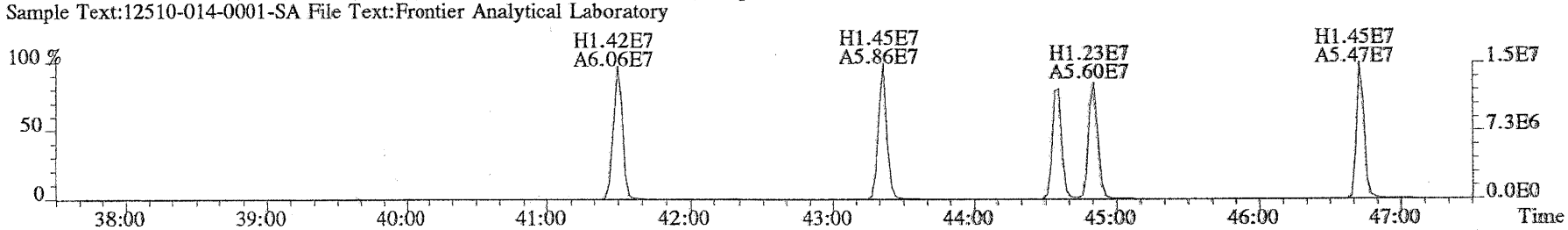
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



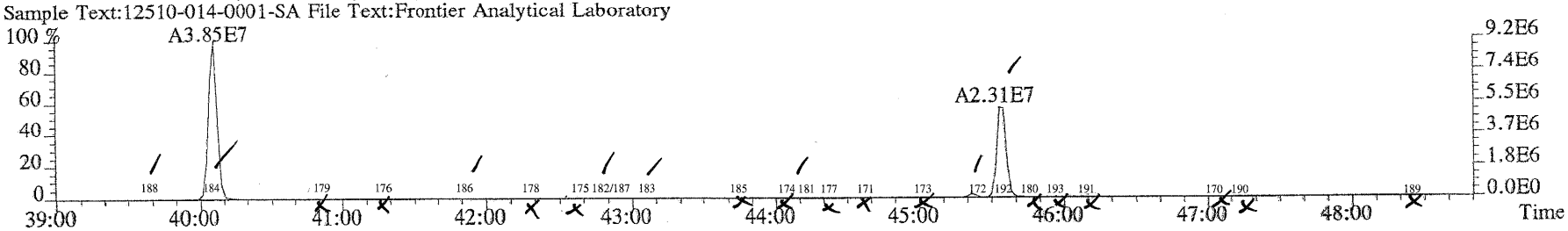
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



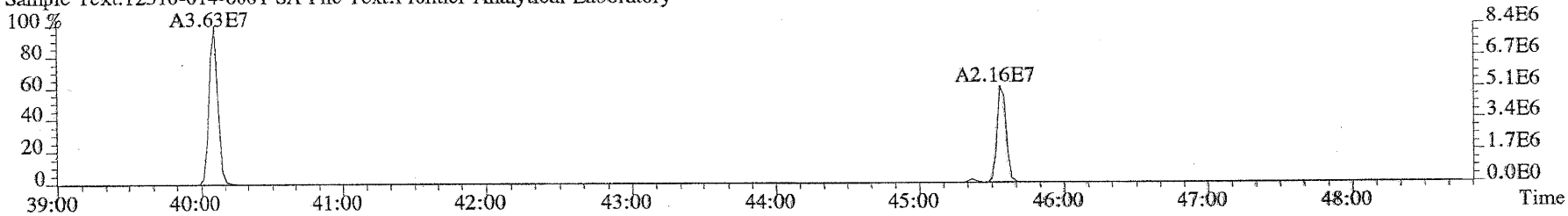
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



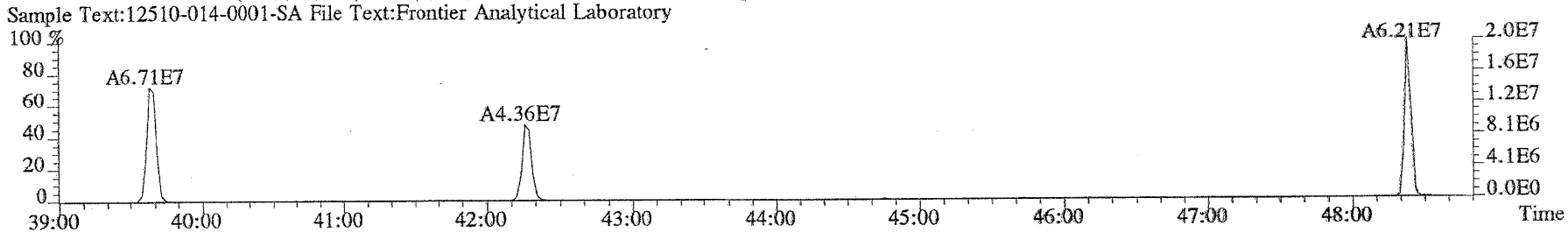
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



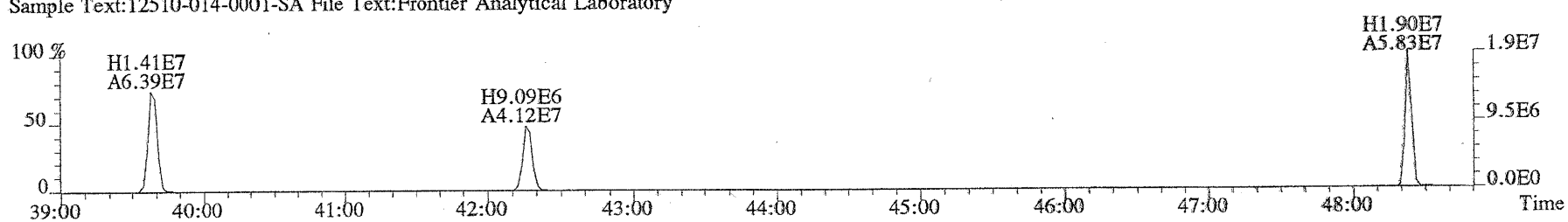
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



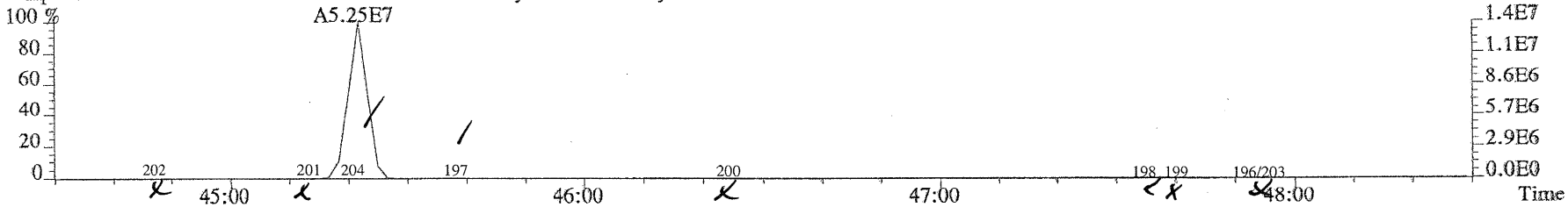
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



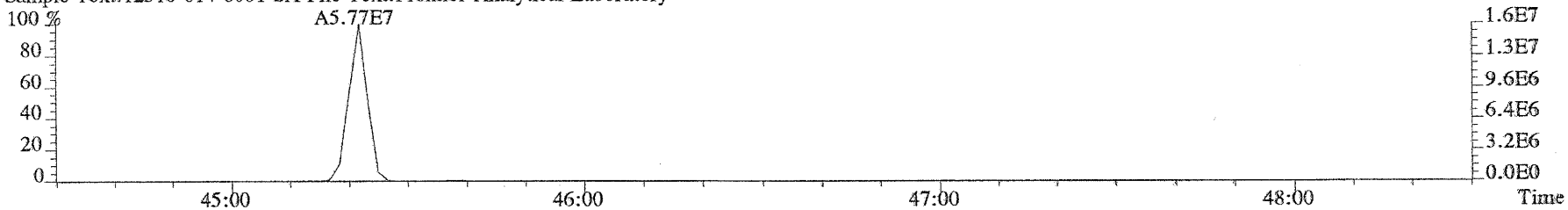
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



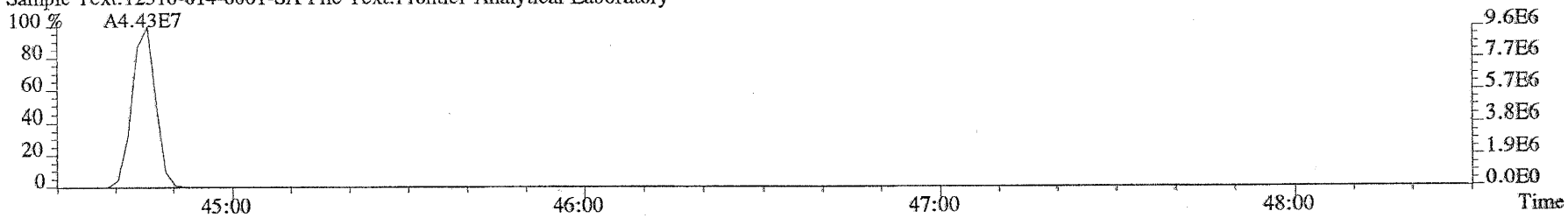
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



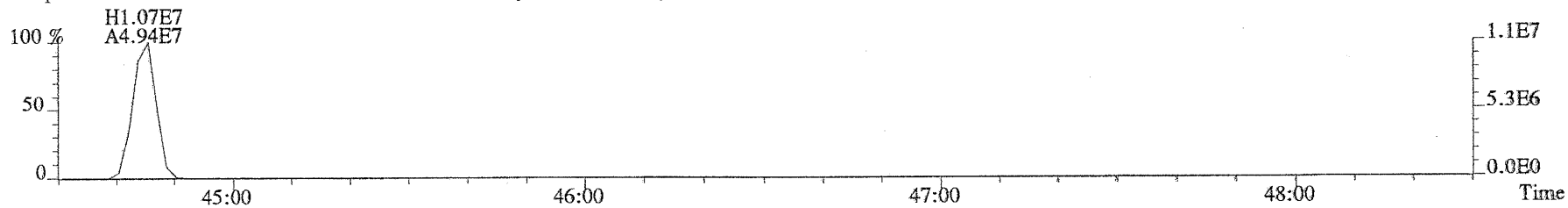
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



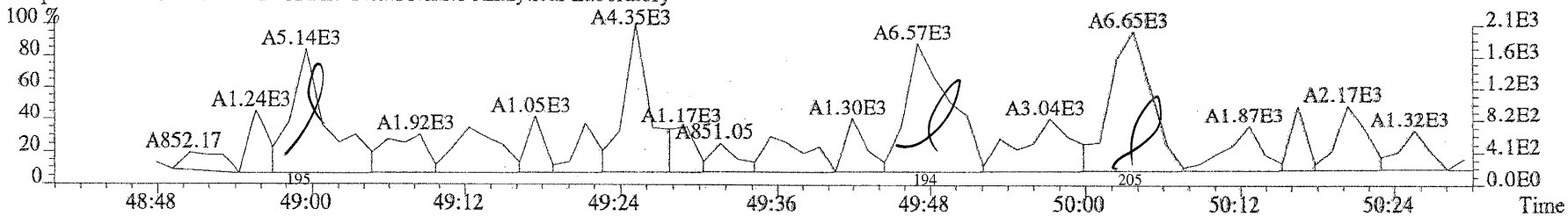
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



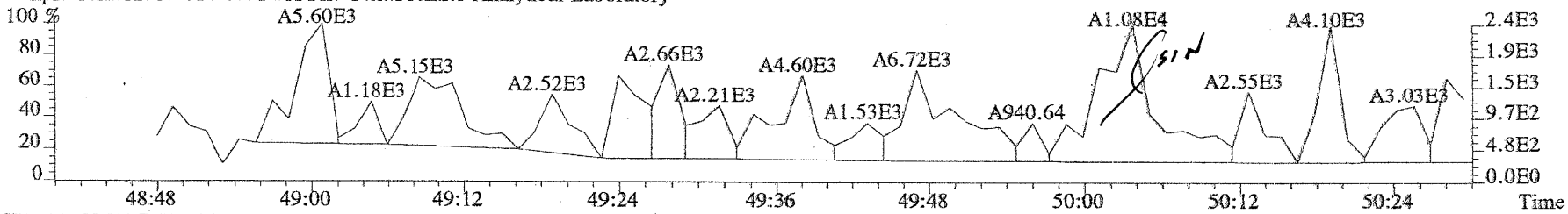
File:02AUG19Z #1-405 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



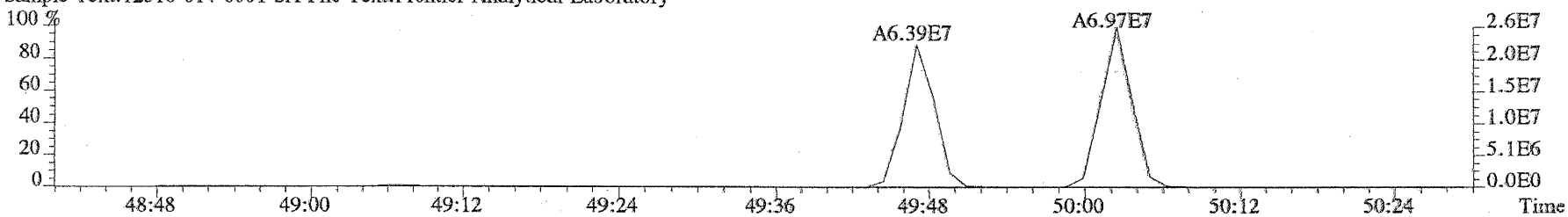
File:02AUG19Z #1-315 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



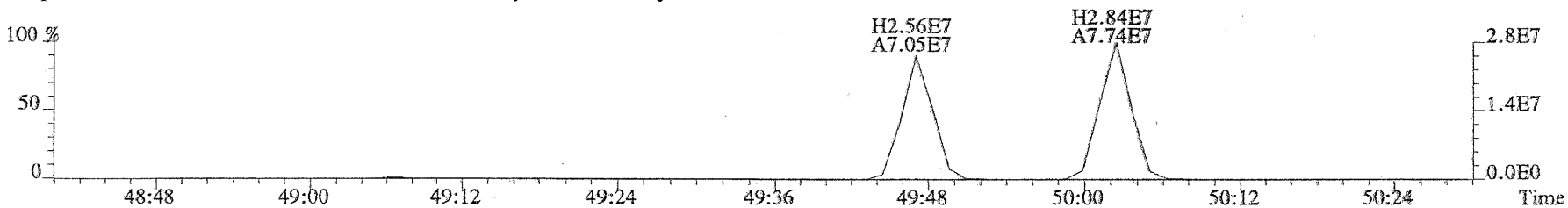
File:02AUG19Z #1-315 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



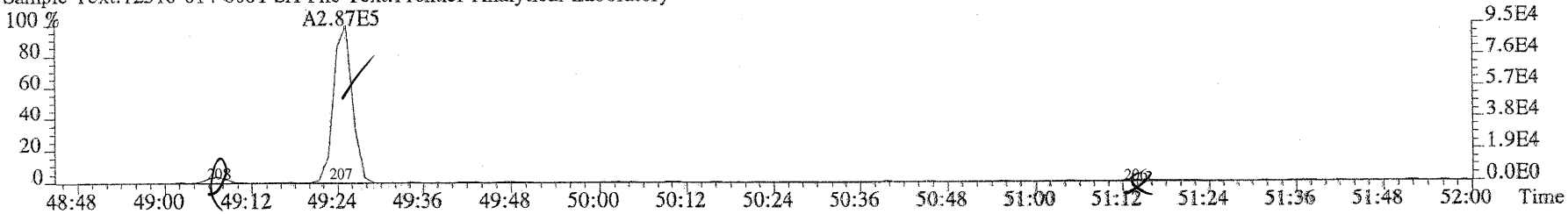
File:02AUG19Z #1-315 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



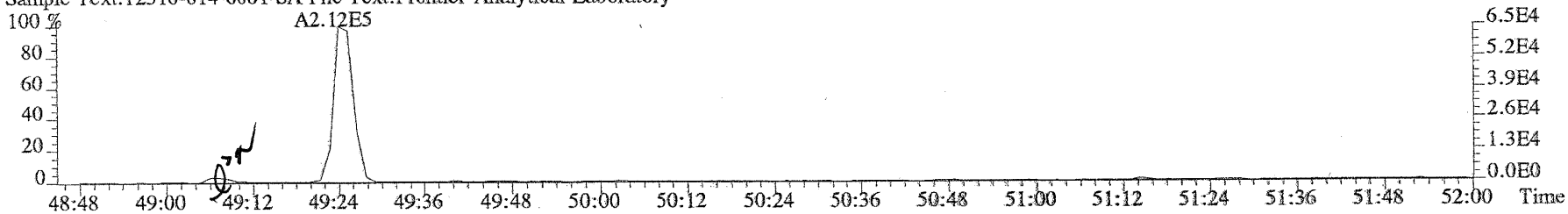
File:02AUG19Z #1-315 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



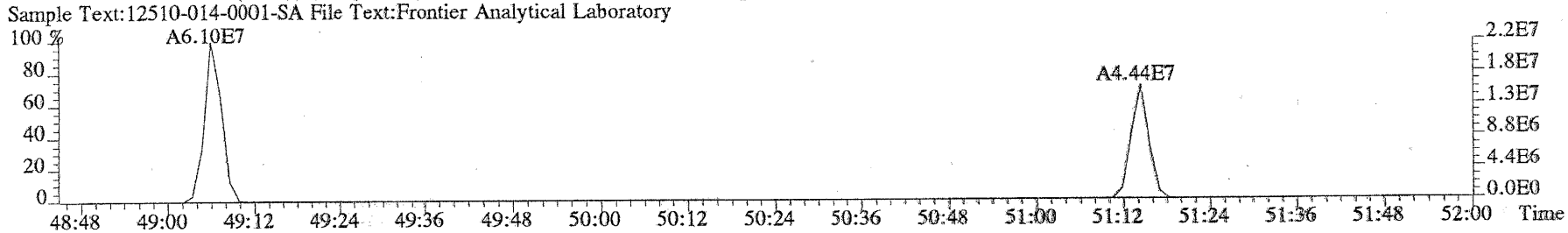
File:02AUG19Z #1-315 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



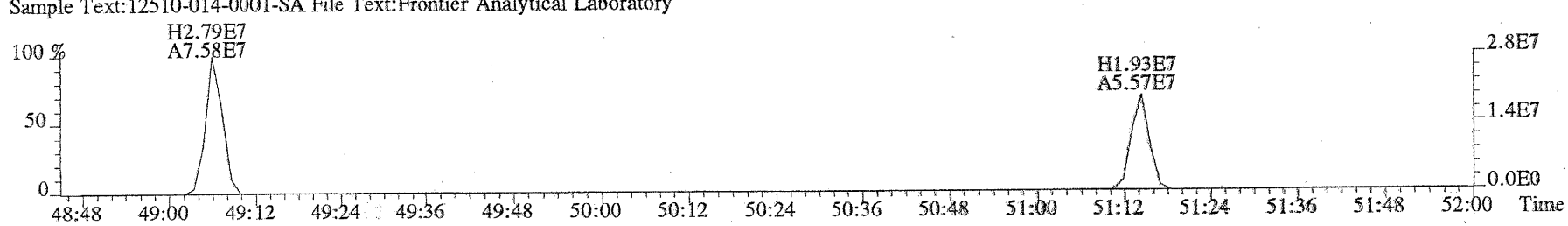
File:02AUG19Z #1-315 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



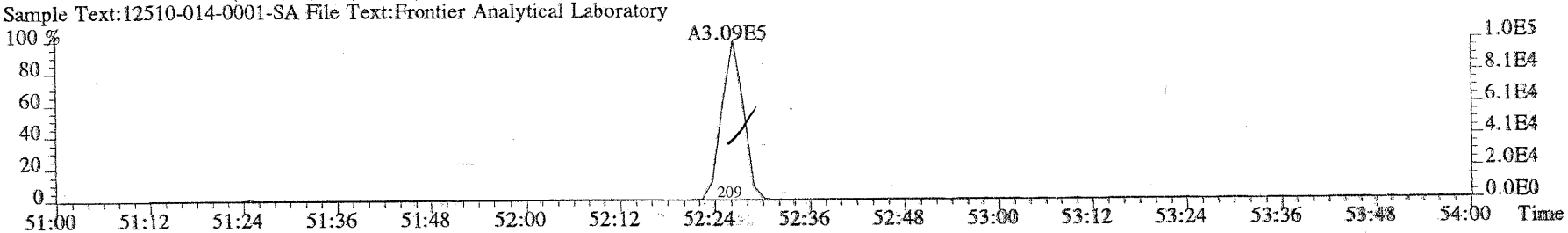
File:02AUG19Z #1-315 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



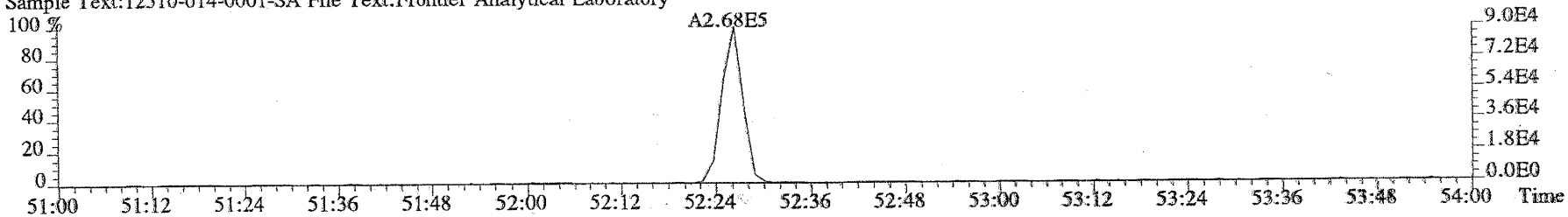
File:02AUG19Z #1-315 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



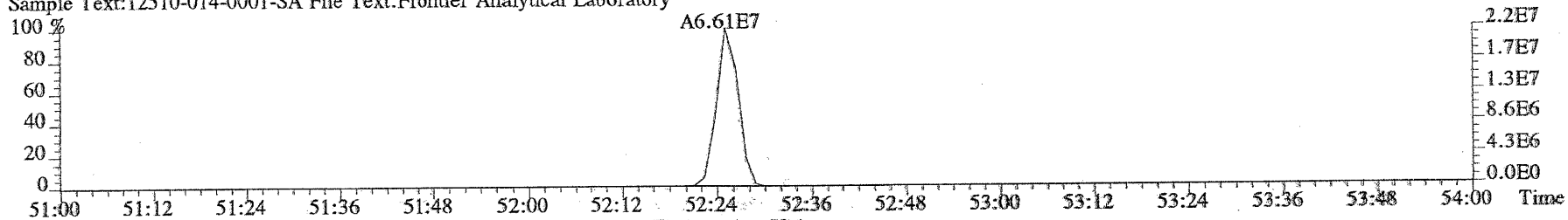
File:02AUG19Z #1-315 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



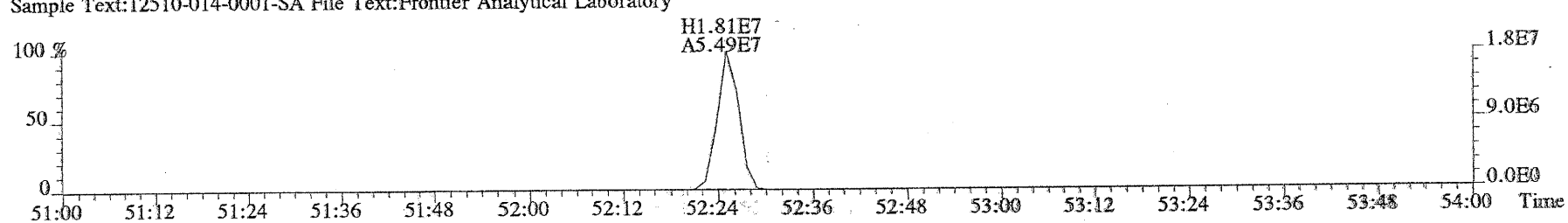
File:02AUG19Z #1-315 Acq: 2-AUG-2019 18:43:46 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-014-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 18:43:46 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:12510-014-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 18:43:46 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:12510-014-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 12510-015-0001-SA Filename: 02AUG19Z Sam:14 Acquired: 2-AUG-19 19:42:07 ICal: DAILY209FAL4-8-2-19
Client ID: LDW-Y2-IN-ENR+AC-CA-S010 ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12511-1 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	* n	NotFnd	1.16	*		349	288	544	
13C-PCB-1	7.83e+04	3.00 y	14:31	0.90	30.5	A				0.305
PCB-2	*	* n	NotFnd	1.17	*		349	288	93.7	
PCB-3	*	* n	NotFnd	1.14	*		349	288	63.7	
13C-PCB-3	1.09e+06	3.26 y	16:58	0.92	419	A				4.19
PCB-4	*	* n	NotFnd	1.24	*		820	7280	623	
PCB-10	*	* n	NotFnd	1.21	*		820	7280	11.7	
13C-PCB-4	1.23e+06	1.34 y	18:10	0.65	670					6.70
PCB-9	*	* n	NotFnd	1.33	*		820	7280	10.7	
PCB-7	*	* n	NotFnd	1.38	*		820	7280	10.3	
PCB-6	*	* n	NotFnd	1.41	*		820	7280	10.1	
PCB-8	1.66e+05	1.48 y	20:52	1.29	19.3	J	-	-	*	
PCB-5	*	* n	NotFnd	1.37	*		820	7280	10.4	
PCB-14	1.15e+06	1.46 y	21:55	1.28	135		-	-	*	
PCB-11	2.83e+05	1.56 y	23:04	1.20	35.4		-	-	*	
PCB-13	*	* n	NotFnd	1.23	*		820	7280	11.5	
PCB-12	*	* n	NotFnd	1.26	*		820	7280	11.3	
PCB-15	2.02e+05	1.48 y	23:44	1.14	13.4	J	-	-	*	
13C-PCB-15	1.32e+08	1.58 y	23:41	0.98	47400	A				474
PCB-19	3.69e+04	1.19 y	22:04	1.22	16.4	J	-	-	*	
PCB-30	*	* n	NotFnd	1.84	*		1940	584	6.92	
PCB-18	7.55e+05	1.08 y	23:36	1.22	336		-	-	*	
PCB-17	4.12e+05	1.09 y	23:47	1.31	171		-	-	*	
PCB-27	7.14e+04	1.16 y	24:17	1.79	21.7		-	-	*	
PCB-24	1.09e+05	1.15 y	24:18	1.78	33.3		-	-	*	
PCB-16	2.46e+05	1.13 y	24:47	1.47	91.2		-	-	*	
PCB-32	3.53e+05	1.19 y	24:48	1.54	124		-	-	*	
13C-PCB-19	1.84e+07	1.07 y	22:03	0.46	14100					141
13C-PCB-9	2.83e+07	1.58 y	19:50	-	16.7					
PCB-34	*	* n	NotFnd	1.26	*		3900	4290	2.71	
PCB-23	*	* n	NotFnd	1.25	*		3900	4290	2.75	
PCB-29	*	* n	NotFnd	1.30	*		3900	4290	2.64	
PCB-26	1.01e+06	1.04 y	26:05	1.28	28.3		-	-	*	
PCB-25	5.39e+05	1.13 y	26:14	1.22	15.8	J	-	-	*	
PCB-31	2.78e+06	1.05 y	26:35	1.25	79.1		-	-	*	
PCB-28	3.32e+06	1.06 y	26:40	1.46	81.4		-	-	*	
PCB-20	1.47e+06	1.13 y	27:16	1.20	43.9		-	-	*	Co-elute PCB 21/33
PCB-21	1.47e+06	1.13 y	27:16	1.20	43.9		-	-	*	Co-elute PCB 20/33
PCB-33	1.47e+06	1.13 y	27:16	1.20	43.9		-	-	*	Co-elute PCB 20/21
PCB-22	9.85e+05	1.06 y	27:42	1.28	27.6		-	-	*	
PCB-36	1.12e+07	1.08 y	28:16	1.18	340		-	-	*	
PCB-39	*	* n	NotFnd	1.17	*		3900	4290	2.92	
PCB-38	*	* n	NotFnd	1.16	*		3900	4290	2.96	
PCB-35	*	* n	NotFnd	1.07	*		3900	4290	3.20	
PCB-37	6.78e+05	1.10 y	30:21	1.13	21.4		-	-	*	
13C-PCB-37	2.80e+08	1.09 y	30:20	1.48	10600					106

PCB-54	*	*	n	NotFnd	1.26	*		860	1320	2.34	
PCB-50	7.47e+04	0.83	y	26:42	0.98	10.4	J	-	-	*	
PCB-53	5.78e+05	0.79	y	27:18	0.97	81.3		-	-	*	
PCB-51	1.89e+05	0.83	y	27:38	1.00	25.8		-	-	*	
PCB-45	4.25e+05	0.82	y	28:02	0.84	69.0		-	-	*	
PCB-46	1.44e+05	0.68	y	28:30	0.80	24.7		-	-	*	
PCB-52	7.91e+06	0.82	y	28:56	0.97	1120		-	-	*	Co-elute PCB 69
PCB-69	7.91e+06	0.82	y	28:56	0.97	1120		-	-	*	Co-elute PCB 52
PCB-73	2.82e+05	0.81	y	29:01	1.27	30.3		-	-	*	
PCB-43	4.23e+06	0.79	y	29:13	0.87	667		-	-	*	Co-elute PCB 49
PCB-49	4.23e+06	0.79	y	29:13	0.87	667		-	-	*	Co-elute PCB 43
PCB-47	1.57e+06	0.85	y	29:25	0.92	233		-	-	*	
PCB-48	9.40e+05	0.71	y	29:32	1.07	120		-	-	*	Co-elute PCB 75
PCB-75	9.40e+05	0.71	y	29:32	1.07	120		-	-	*	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	1.06	*		860	1320	2.79	
PCB-62	*	*	n	NotFnd	1.16	*		860	1320	2.55	
PCB-44	3.21e+06	0.81	y	30:09	0.72	608		-	-	*	
PCB-42	1.35e+06	0.83	y	30:23	0.94	196		-	-	*	Co-elute PCB 59
PCB-59	1.35e+06	0.83	y	30:23	0.94	196		-	-	*	Co-elute PCB 42
PCB-72	3.66e+06	0.83	y	30:56	1.06	472		-	-	*	Co-elute PCB 41/71/64
PCB-41	3.66e+06	0.83	y	30:56	1.06	472		-	-	*	Co-elute PCB 72/71/64
PCB-71	3.66e+06	0.83	y	30:56	1.06	472		-	-	*	Co-elute PCB 72/41/64
PCB-64	3.66e+06	0.83	y	30:56	1.06	472		-	-	*	Co-elute PCB 72/41/71
PCB-68	2.86e+05	0.79	y	31:10	1.21	32.4		-	-	*	
PCB-40	4.01e+05	0.77	y	31:23	0.66	83.5		-	-	*	
PCB-57	7.62e+04	0.88	y	31:44	1.09	9.52	J	-	-	*	
PCB-67	1.86e+05	0.86	y	32:02	1.08	23.6		-	-	*	
PCB-58	4.17e+04	0.79	y	32:07	1.10	5.17	J	-	-	*	
PCB-63	2.04e+05	0.83	y	32:17	1.10	25.2		-	-	*	
PCB-74	1.98e+06	0.78	y	32:34	1.08	251		-	-	*	
PCB-61	4.70e+06	0.79	y	32:45	1.03	624		-	-	*	Co-elute PCB 70
PCB-70	4.70e+06	0.79	y	32:45	1.03	624		-	-	*	Co-elute PCB 61
PCB-76	4.51e+06	0.80	y	32:58	1.13	546		-	-	*	Co-elute PCB 66
PCB-66	4.51e+06	0.80	y	32:58	1.13	546		-	-	*	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.30	*		860	1320	2.28	
PCB-55	1.13e+06	0.81	y	33:28	1.13	137		-	-	*	
13C-PCB-54	7.32e+07	0.82	y	25:34	1.20	3410					34.1
PCB-104	2.86e+07	1.55	y	30:02	1.11	1570		-	-	*	
PCB-96	8.31e+04	1.34	y	31:13	1.05	4.82	J	-	-	*	
PCB-103	1.34e+05	1.47	y	31:43	0.84	9.63	J	-	-	*	
PCB-100	1.44e+05	1.70	y	32:03	0.83	10.4	J	-	-	*	
PCB-94	4.45e+04	1.58	y	32:30	0.69	3.92	J	-	-	*	
PCB-98	*	*	n	NotFnd	0.72	*		840	780	1.45	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.72	*		840	780	1.45	Co-elute PCB 98
PCB-95	7.96e+06	1.52	y	33:01	0.71	676		-	-	*	
PCB-93	*	*	n	NotFnd	0.69	*		840	780	1.49	
PCB-88	*	*	n	NotFnd	0.77	*		840	780	1.35	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.77	*		840	780	1.35	Co-elute PCB 88
PCB-121	6.28e+07	1.57	y	33:28	0.93	4110		-	-	*	
13C-PCB-104	1.65e+08	1.60	y	29:59	0.92	9990					99.9
13C-PCB-28	2.17e+08	1.07	y	26:38	1.83	6620					66.2
13C-PCB-52	1.79e+08	0.81	y	28:55	-	221					

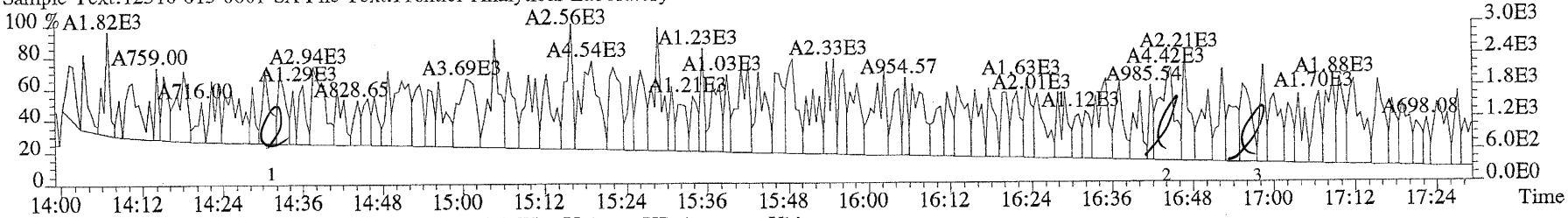
PCB-56	1.79e+06	0.80	y	33:55	1.26	48.8		-	-	*	Co-elute PCB 60
PCB-60	1.79e+06	0.80	y	33:55	1.26	48.8		-	-	*	Co-elute PCB 56
PCB-79	2.26e+05	0.69	y	34:56	1.19	6.55	J	-	-	*	
PCB-78	5.21e+07	0.80	y	35:37	1.10	1630		-	-	*	
PCB-81	4.60e+05	0.75	y	36:07	1.24	13.1	J	-	-	*	
13C-PCB-81	2.83e+08	0.81	y	36:04	1.38	10400					104
PCB-77	4.45e+05	0.85	y	36:40	1.05	14.3	J	-	-	*	
13C-PCB-77	2.98e+08	0.80	y	36:39	1.43	10600					106
PCB-155	6.92e+07	1.26	y	34:11	1.03	3070		-	-	*	
PCB-150	*	*	n	NotFnd	0.99	*		1300	1200	1.30	
PCB-152	*	*	n	NotFnd	0.90	*		1300	1200	1.44	
PCB-145	*	*	n	NotFnd	0.86	*		1300	1200	1.50	
PCB-136	1.50e+06	1.24	y	36:34	0.81	84.5		-	-	*	
PCB-148	*	*	n	NotFnd	0.60	*		1300	1200	2.14	
PCB-154	3.35e+05	1.21	y	37:06	0.68	22.5		-	-	*	
13C-PCB-155	2.19e+08	1.27	y	34:09	1.23	8990					89.9
13C-PCB-111	2.05e+08	1.60	y	36:13	1.08	9570					95.7
13C-PCB-101	1.98e+08	1.59	y	34:35	-	319					
PCB-84	4.87e+06	1.57	y	34:16	0.87	212		-	-	*	Co-elute PCB 92
PCB-92	4.87e+06	1.57	y	34:16	0.87	212		-	-	*	Co-elute PCB 84
PCB-89	1.07e+05	1.53	y	34:26	0.87	4.67	J	-	-	*	
PCB-90	1.01e+07	1.59	y	34:36	0.98	393		-	-	*	Co-elute PCB 101
PCB-101	1.01e+07	1.59	y	34:36	0.98	393		-	-	*	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.09	*		4450	2510	2.75	
PCB-99	4.88e+06	1.61	y	34:56	1.12	166		-	-	*	
PCB-119	3.70e+05	1.51	y	35:23	1.20	11.7	J	-	-	*	
PCB-83	4.95e+05	1.61	y	35:32	0.88	21.4		-	-	*	Co-elute PCB 112
PCB-112	4.95e+05	1.61	y	35:32	0.88	21.4		-	-	*	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.06	*		4450	2510	2.83	
PCB-97	2.41e+06	1.60	y	35:51	0.72	127		-	-	*	
PCB-86	*	*	n	NotFnd	0.71	*		4450	2510	4.23	
PCB-125	3.88e+06	1.57	y	36:07	0.95	155		-	-	*	Co-elute PCB 87/117
PCB-87	3.88e+06	1.57	y	36:07	0.95	155		-	-	*	Co-elute PCB 125/117
PCB-117	3.88e+06	1.57	y	36:07	0.95	155		-	-	*	Co-elute PCB 125/87
PCB-111	2.44e+05	1.49	y	36:16	1.15	8.06	J	-	-	*	Co-elute PCB 115
PCB-115	2.44e+05	1.49	y	36:16	1.15	8.06	J	-	-	*	Co-elute PCB 111
PCB-85	1.58e+06	1.57	y	36:22	0.87	69.3		-	-	*	Co-elute PCB 116
PCB-116	1.58e+06	1.57	y	36:22	0.87	69.3		-	-	*	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.13	*		4450	2510	2.67	
PCB-110	1.29e+07	1.58	y	36:45	1.04	475		-	-	*	
PCB-82	6.68e+05	1.57	y	37:20	0.60	42.3		-	-	*	
PCB-124	4.57e+05	1.46	y	38:00	1.04	16.8	J	-	-	*	
PCB-108	7.19e+05	1.64	y	38:09	1.10	24.9		-	-	*	Co-elute PCB 107
PCB-107	7.19e+05	1.64	y	38:09	1.10	24.9		-	-	*	Co-elute PCB 108
PCB-123	1.73e+05	1.72	y	38:18	1.05	6.47	J	-	-	*	
13C-PCB-123	2.54e+08	1.57	y	38:17	1.31	9170					91.7
PCB-118	8.08e+06	1.55	y	38:28	1.04	289		-	-	*	Co-elute PCB 106
PCB-106	8.08e+06	1.55	y	38:28	1.04	289		-	-	*	Co-elute PCB 118
13C-PCB-118	2.68e+08	1.59	y	38:27	1.51	8400					84.0
PCB-114	2.21e+05	1.38	y	39:06	1.11	7.40	J	-	-	*	
13C-PCB-114	2.69e+08	1.60	y	39:05	1.42	8960					89.6
PCB-122	1.07e+05	1.50	y	39:13	1.07	3.80	J	-	-	*	
PCB-105	2.75e+06	1.51	y	39:54	1.13	92.9		-	-	*	
13C-PCB-105	2.61e+08	1.60	y	39:52	1.44	8580					85.8

PCB-127	*	*	n	NotFnd	1.05	*		1960	1850	1.57	
PCB-126	*	*	n	NotFnd	1.08	*		1960	1850	1.75	
13C-PCB-126	2.51e+08	1.59	y	42:01	1.36	8720					87.2
PCB-151	1.67e+06	1.29	y	37:44	0.76	99.0		-	-	*	
PCB-135	1.24e+06	1.25	y	37:55	0.78	71.3		-	-	*	
PCB-144	3.42e+05	1.33	y	38:02	0.80	19.2	J	-	-	*	
PCB-147	2.29e+05	1.19	y	38:10	0.92	11.3	J	-	-	*	
PCB-139	6.85e+06	1.29	y	38:23	0.89	348		-	-	*	Co-elute PCB 149
PCB-149	6.85e+06	1.29	y	38:23	0.89	348		-	-	*	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.87	*		1600	1190	1.53	
PCB-143	4.94e+05	1.25	y	39:01	0.75	29.8		-	-	*	Co-elute PCB 134
PCB-134	4.94e+05	1.25	y	39:01	0.75	29.8		-	-	*	Co-elute PCB 143
PCB-131	2.00e+05	1.29	y	39:16	0.72	12.5	J	-	-	*	Co-elute PCB 133
PCB-133	2.00e+05	1.29	y	39:16	0.72	12.5	J	-	-	*	Co-elute PCB 131
PCB-142	1.65e+08	1.27	y	39:26	0.74	10100		-	-	*	
PCB-165	1.77e+06	1.33	y	39:38	1.01	79.0		-	-	*	Co-elute PCB 146
PCB-146	1.77e+06	1.33	y	39:38	1.01	79.0		-	-	*	Co-elute PCB 165
PCB-161	2.36e+06	1.27	y	39:54	0.94	113		-	-	*	Co-elute PCB 132
PCB-132	2.36e+06	1.27	y	39:54	0.94	113		-	-	*	Co-elute PCB 161
PCB-153	8.53e+06	1.28	y	40:01	0.96	401		-	-	*	
PCB-168	*	*	n	NotFnd	1.09	*		1600	1190	1.21	
PCB-141	1.12e+06	1.29	y	40:43	0.79	64.0		-	-	*	
PCB-137	3.90e+05	1.29	y	41:06	0.83	21.1		-	-	*	
PCB-130	4.94e+05	1.41	y	41:11	0.69	32.2		-	-	*	
PCB-138	7.73e+06	1.27	y	41:31	1.03	340		-	-	*	Co-elute PCB 163/164
PCB-163	7.73e+06	1.27	y	41:31	1.03	340		-	-	*	Co-elute PCB 138/164
PCB-164	7.73e+06	1.27	y	41:31	1.03	340		-	-	*	Co-elute PCB 138/163
PCB-158	1.04e+06	1.34	y	41:46	1.13	41.5		-	-	*	Co-elute PCB 160
PCB-160	1.04e+06	1.34	y	41:46	1.13	41.5		-	-	*	Co-elute PCB 158
PCB-129	3.13e+05	1.21	y	41:59	0.70	20.3		-	-	*	
PCB-166	*	*	n	NotFnd	1.09	*		1600	1190	1.22	
PCB-159	2.14e+05	1.35	y	42:45	1.17	8.29	J	-	-	*	
PCB-128	1.11e+06	1.27	y	43:00	0.93	53.8		-	-	*	Co-elute PCB 162
PCB-162	1.11e+06	1.27	y	43:00	0.93	53.8		-	-	*	Co-elute PCB 128
PCB-167	3.01e+05	1.25	y	43:23	1.11	12.2	J	-	-	*	
13C-PCB-167	2.21e+08	1.29	y	43:21	1.22	8620					86.2
PCB-156	6.14e+05	1.25	y	44:37	1.20	23.6		-	-	*	
13C-PCB-156	2.18e+08	1.30	y	44:35	1.23	8380					83.8
PCB-157	2.16e+05	1.31	y	44:52	1.11	9.01	J	-	-	*	
13C-PCB-157	2.17e+08	1.31	y	44:50	1.25	8220					82.2
PCB-169	*	*	n	NotFnd	1.05	*		1600	1190	1.13	
13C-PCB-169	2.30e+08	1.30	y	46:42	1.28	8500					85.0

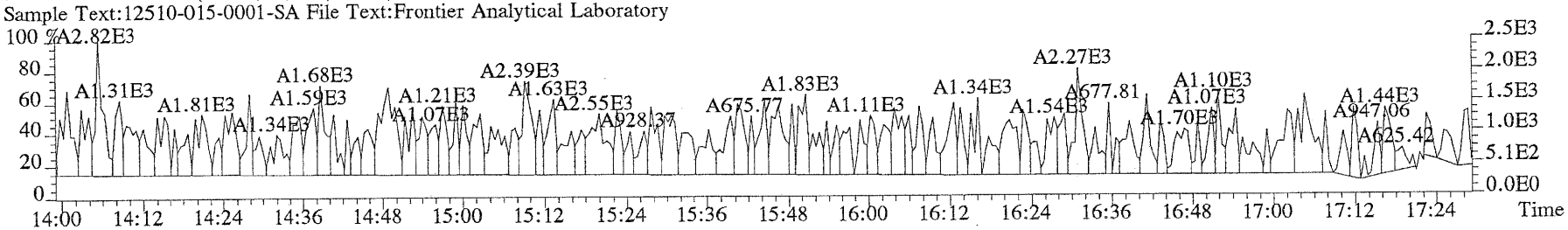
PCB-188	1.29e+05	1.10	y	39:39	1.07	6.08	J	-	-	*	
13C-PCB-188	1.98e+08	1.06	y	39:39	1.05	8940					89.4
PCB-184	9.28e+07	1.06	y	40:05	1.06	4290		-	-	*	
PCB-179	7.04e+05	0.98	y	40:50	1.03	33.4		-	-	*	
PCB-176	2.03e+05	1.18	y	41:16	1.03	9.65	J	-	-	*	
PCB-186	8.29e+04	1.12	y	41:51	1.02	3.96	J	-	-	*	
PCB-178	2.42e+05	0.98	y	42:17	0.66	18.0	J	-	-	*	
PCB-175	5.12e+04	1.06	y	42:39	0.78	3.22	J	-	-	*	
PCB-187	1.27e+06	1.08	y	42:47	0.83	75.3		-	-	*	Co-elute PCB 182
PCB-182	1.27e+06	1.08	y	42:47	0.83	75.3		-	-	*	Co-elute PCB 187
PCB-183	6.35e+05	1.02	y	43:05	0.81	38.3		-	-	*	
PCB-185	1.07e+05	1.03	y	43:44	0.72	7.18	J	-	-	*	
PCB-174	7.99e+05	1.02	y	44:04	0.72	54.4		-	-	*	
PCB-181	1.12e+05	1.07	y	44:07	0.81	6.71	J	-	-	*	
PCB-177	4.62e+05	1.12	y	44:19	0.65	34.7		-	-	*	
PCB-171	*	*	n	NotFnd	0.76	*		1120	720	1.15	
PCB-173	*	*	n	NotFnd	0.69	*		1120	720	1.26	
PCB-172	1.64e+06	1.11	y	45:22	0.73	110		-	-	*	
PCB-192	6.21e+07	1.06	y	45:35	0.96	3140		-	-	*	
PCB-180	1.54e+06	1.08	y	45:45	0.73	103		-	-	*	
PCB-193	1.72e+05	1.09	y	45:56	1.03	8.14	J	-	-	*	
PCB-191	*	*	n	NotFnd	1.02	*		1120	720	0.855	
PCB-170	5.58e+05	1.06	y	47:02	0.73	37.2		-	-	*	
PCB-190	1.96e+05	0.96	y	47:12	1.05	9.14	J	-	-	*	
PCB-189	*	*	n	NotFnd	1.06	*		1120	720	0.662	
13C-PCB-189	2.11e+08	1.07	y	48:23	1.06	9420					94.2
PCB-202	1.20e+05	0.85	y	44:47	1.05	6.97	J	-	-	*	
PCB-201	6.36e+04	0.87	y	45:13	1.01	3.85	J	-	-	*	
PCB-204	1.40e+08	0.93	y	45:22	1.13	7570		-	-	*	
PCB-197	8.54e+05	0.89	y	45:38	1.10	47.7		-	-	*	
PCB-200	*	*	n	NotFnd	1.04	*		1440	1420	1.72	
PCB-198	*	*	n	NotFnd	0.76	*		1440	1420	2.37	
PCB-199	2.71e+05	0.93	y	47:40	0.86	19.2	J	-	-	*	
PCB-203	3.01e+05	1.01	y	47:55	0.93	19.7	J	-	-	*	Co-elute PCB 196
PCB-196	3.01e+05	1.01	y	47:55	0.93	19.7	J	-	-	*	Co-elute PCB 203
13C-PCB-202	1.64e+08	0.90	y	44:45	0.85	9110					91.1
13C-PCB-178	1.30e+08	1.07	y	42:17	0.66	9270					92.7
13C-PCB-138	2.11e+08	1.30	y	41:29	-	416					
PCB-195	1.08e+05	0.82	y	49:01	0.78	6.09	J	-	-	*	
PCB-194	2.39e+05	0.91	y	49:48	0.85	12.3	J	-	-	*	
PCB-205	*	*	n	NotFnd	1.10	*		1940	1880	1.15	
13C-PCB-205	2.28e+08	0.89	y	50:02	1.30	8430					84.3
PCB-208	6.12e+04	1.25	y	49:07	1.06	2.64	J	-	-	*	
13C-PCB-208	2.19e+08	0.80	y	49:07	1.20	8750					87.5
PCB-207	7.04e+05	1.37	y	49:25	1.18	31.8		-	-	*	
PCB-206	7.71e+04	1.14	y	51:16	1.07	4.57	J	-	-	*	
13C-PCB-206	1.57e+08	0.80	y	51:14	0.94	8040					80.4
PCB-209	7.82e+05	1.15	y	52:26	1.12	38.5		-	-	*	
13C-PCB-209	1.82e+08	1.20	y	52:26	1.22	7170					71.7
13C-PCB-194	2.08e+08	0.91	y	49:47	-	407					

Analyst: [illegible] Date: 8/6/19

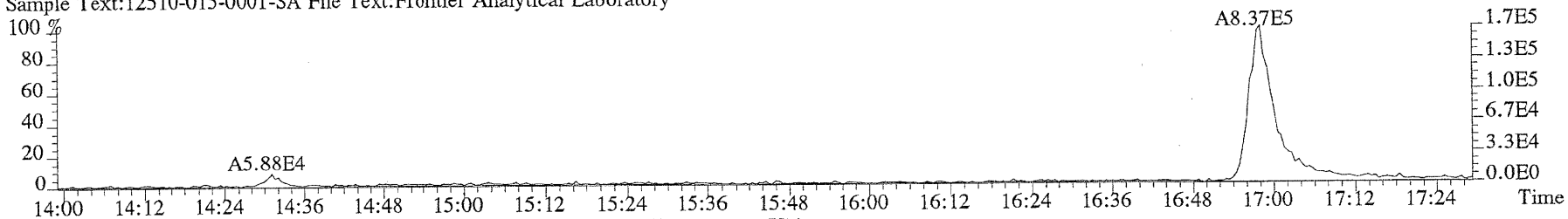
File:02AUG19Z #1-784 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:14 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



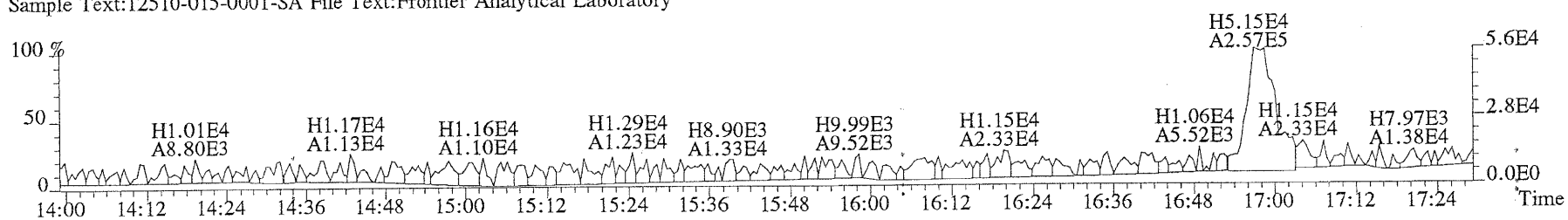
File:02AUG19Z #1-784 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:14 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



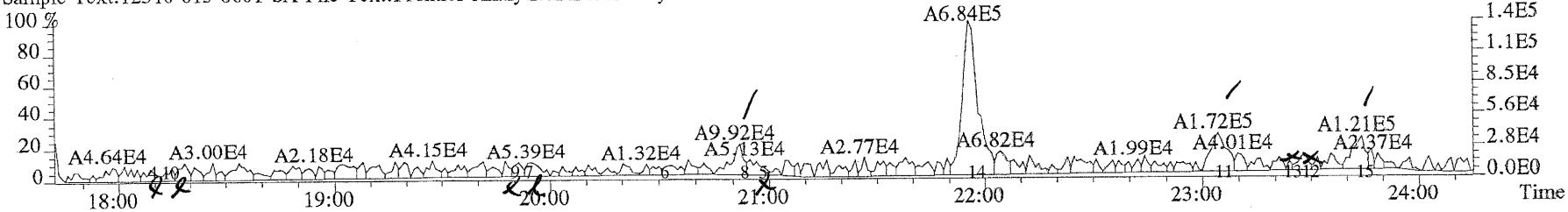
File:02AUG19Z #1-784 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:14 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



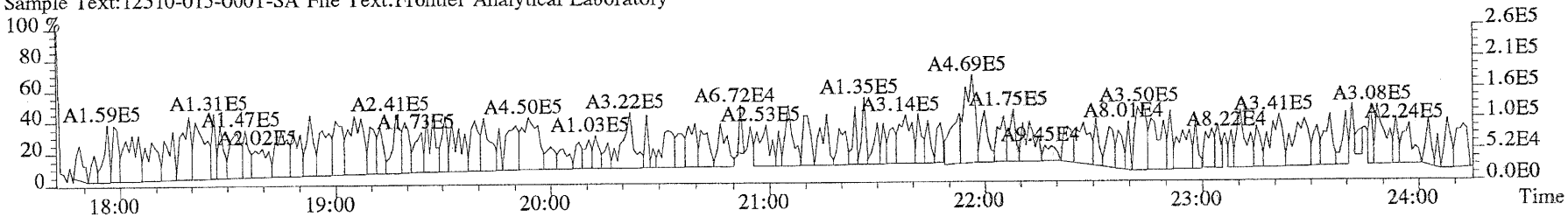
File:02AUG19Z #1-784 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:14 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



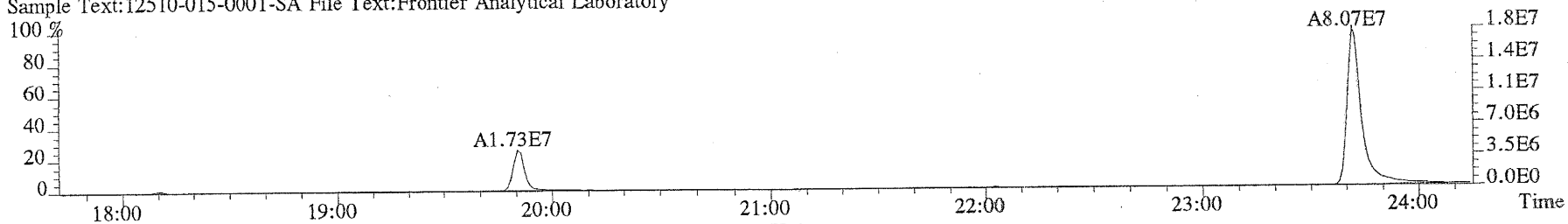
File:02AUG19Z #1-520 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



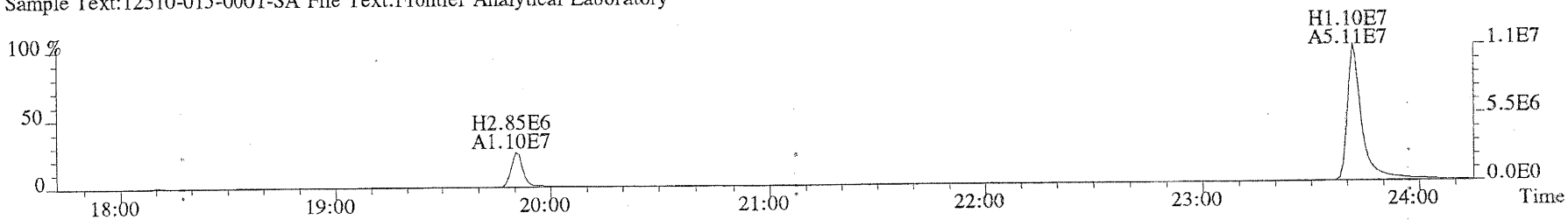
File:02AUG19Z #1-520 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



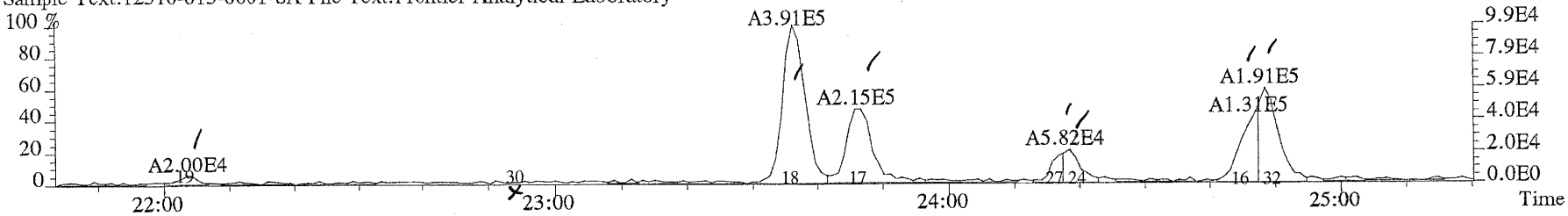
File:02AUG19Z #1-520 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



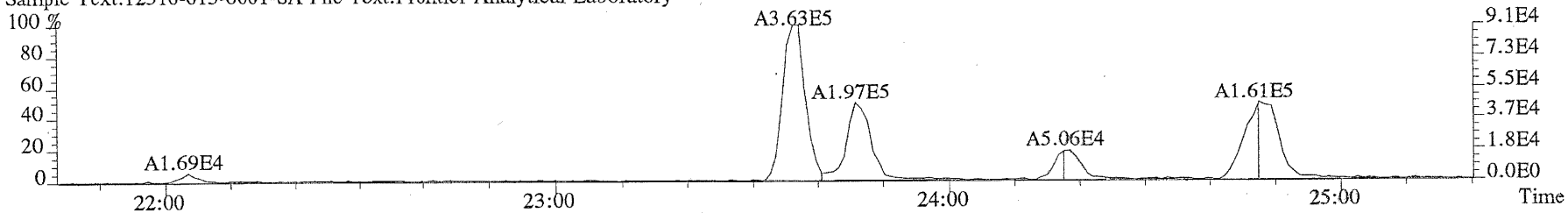
File:02AUG19Z #1-520 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



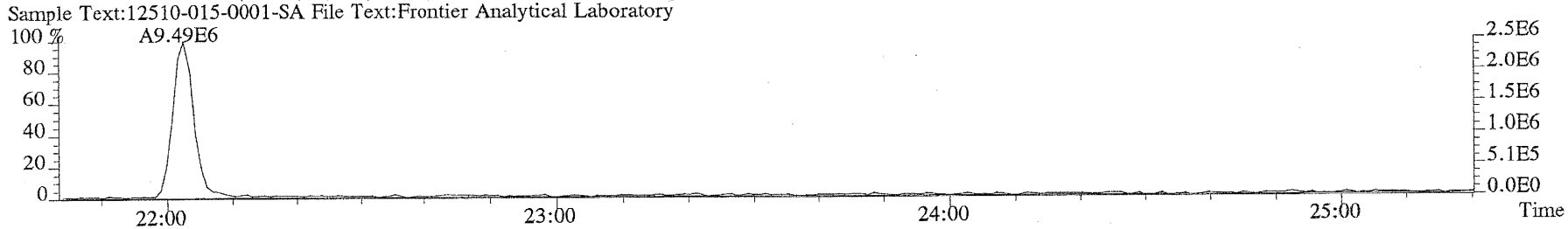
File:02AUG19Z #1-520 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



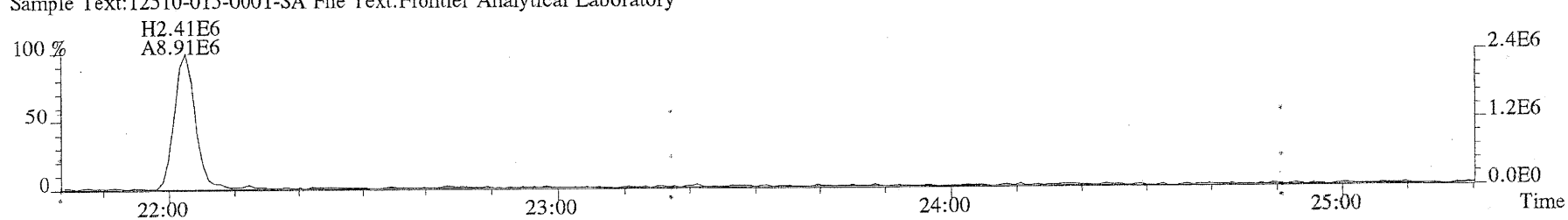
File:02AUG19Z #1-520 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



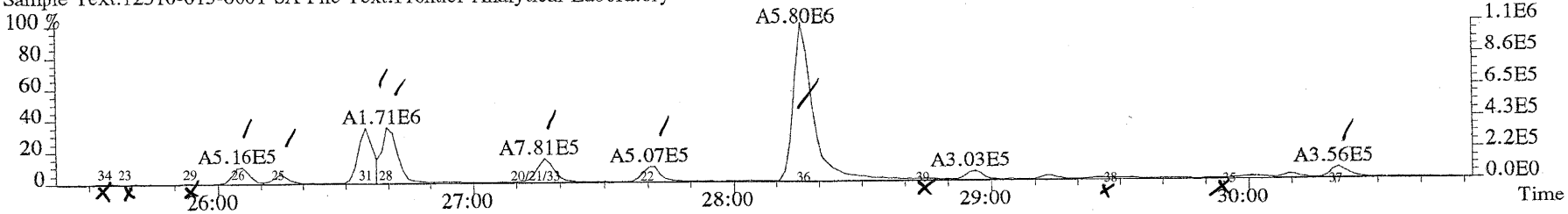
File:02AUG19Z #1-520 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



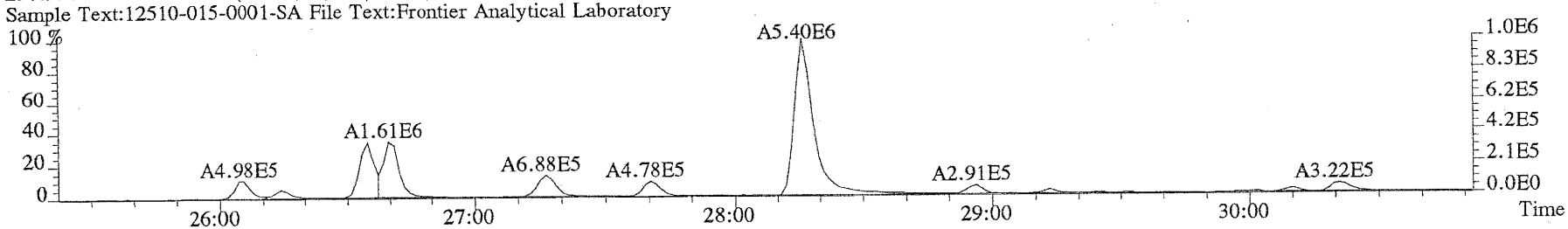
File:02AUG19Z #1-520 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:14 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



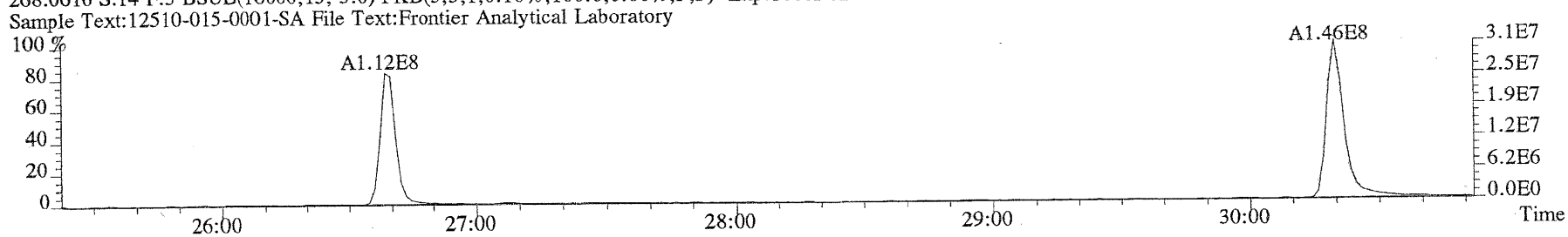
File:02AUG19Z #1-401 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



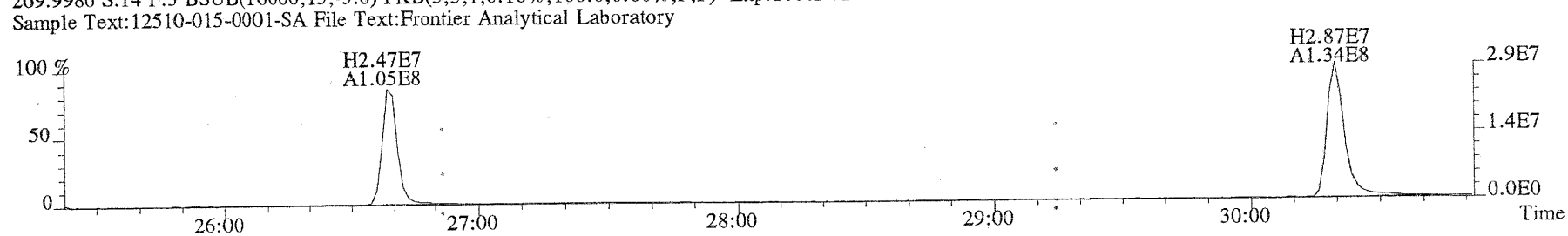
File:02AUG19Z #1-401 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



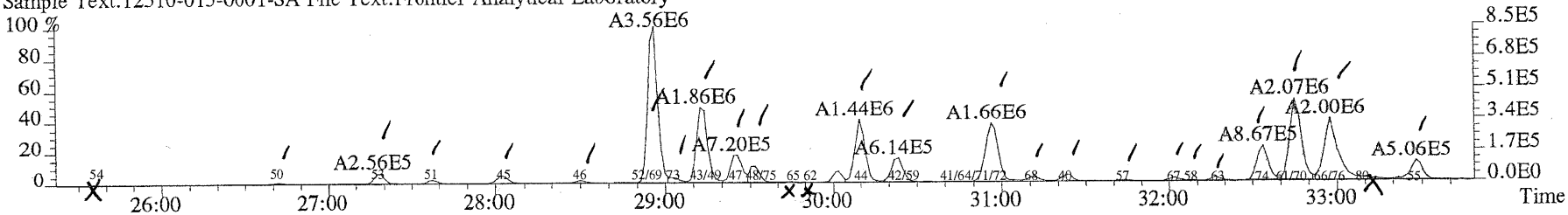
File:02AUG19Z #1-401 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-401 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-401 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



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291.9194 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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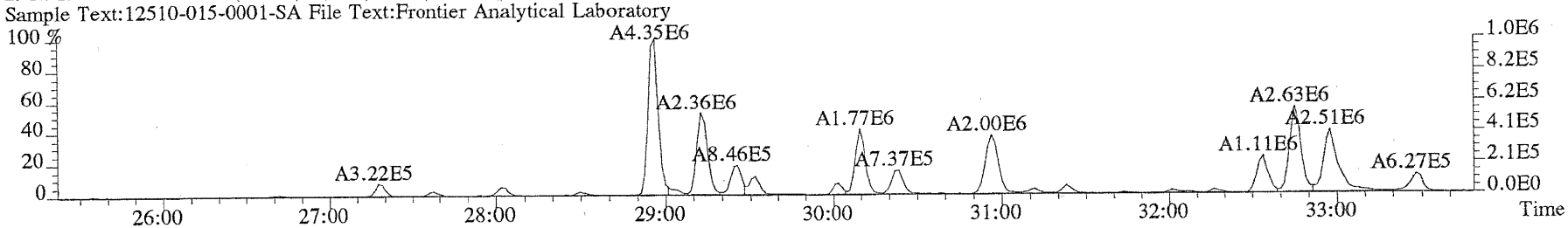
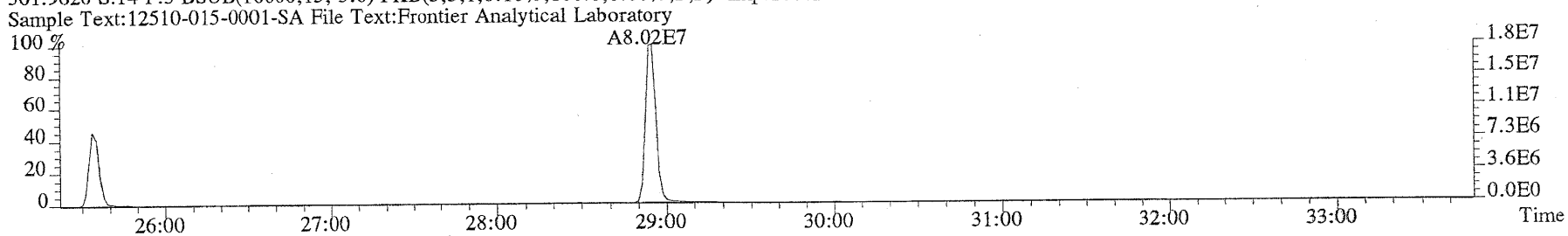
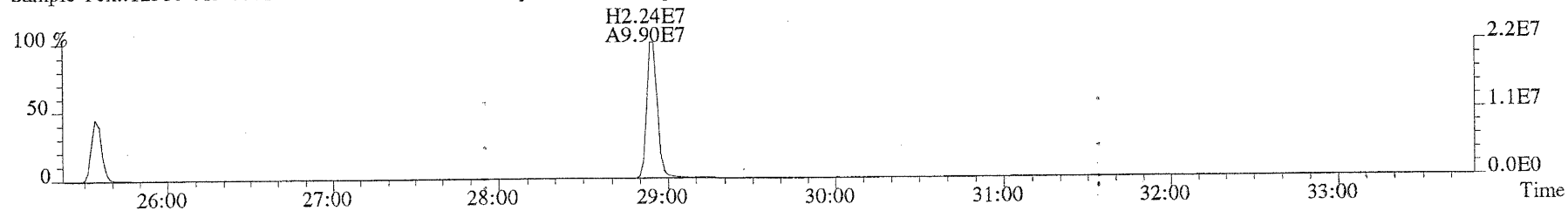


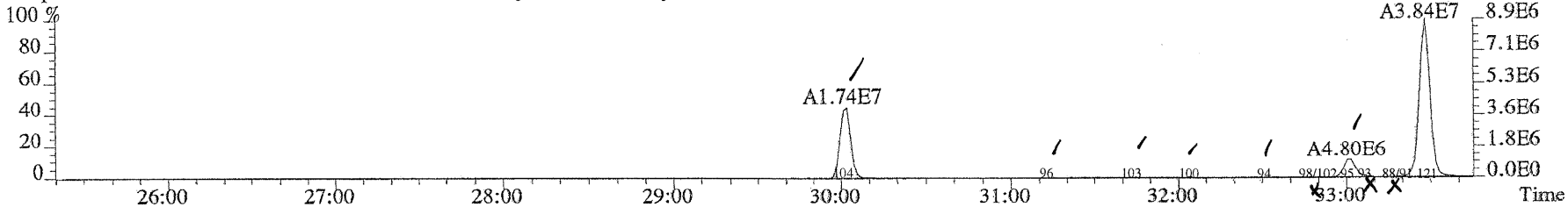
File:02AUG19Z #1-401 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



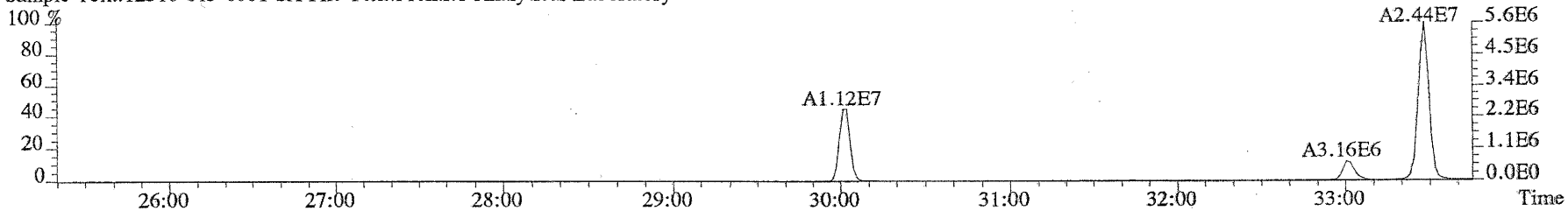
File:02AUG19Z #1-401 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



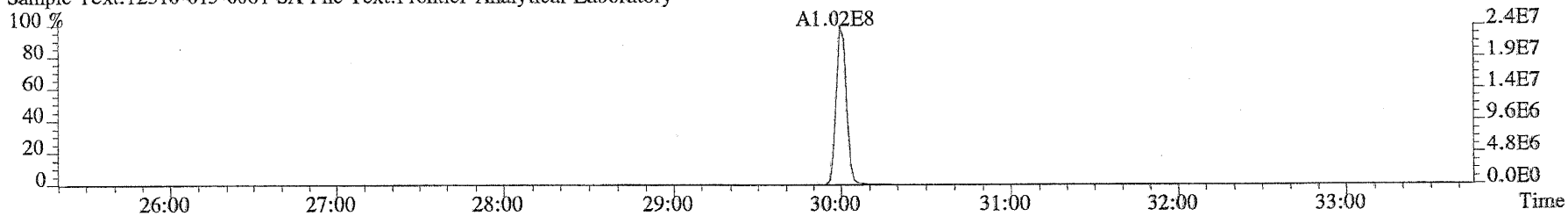
File:02AUG19Z #1-401 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



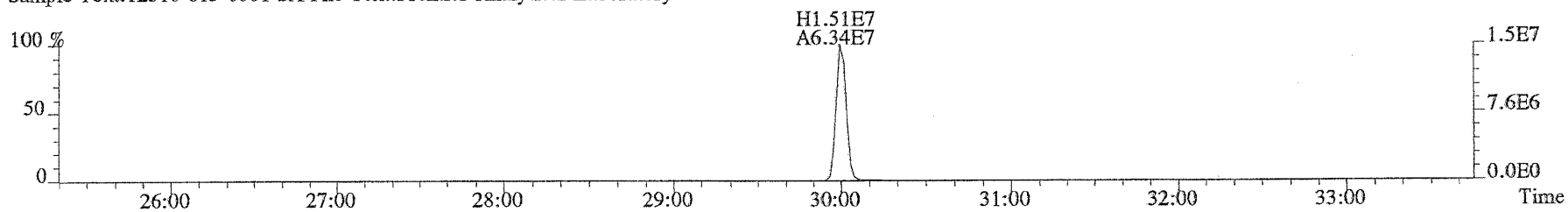
File:02AUG19Z #1-401 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



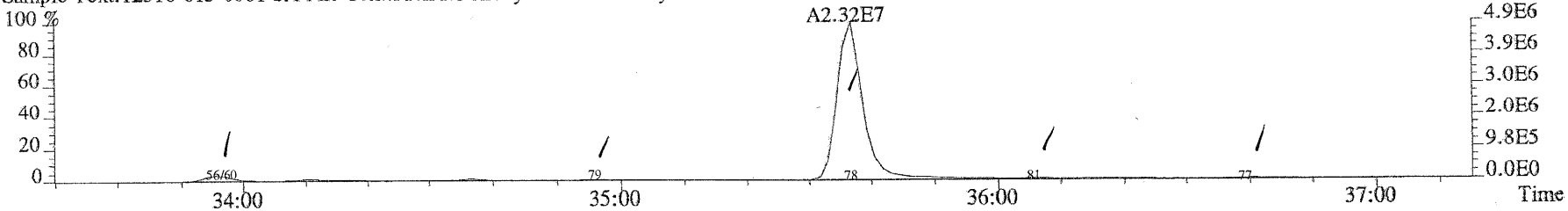
File:02AUG19Z #1-401 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-401 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 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:12510-015-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-181 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
289.9224 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:12510-015-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-181 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
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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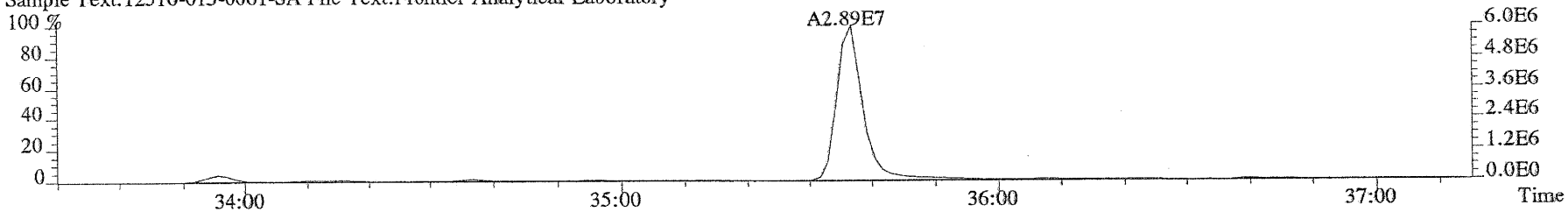
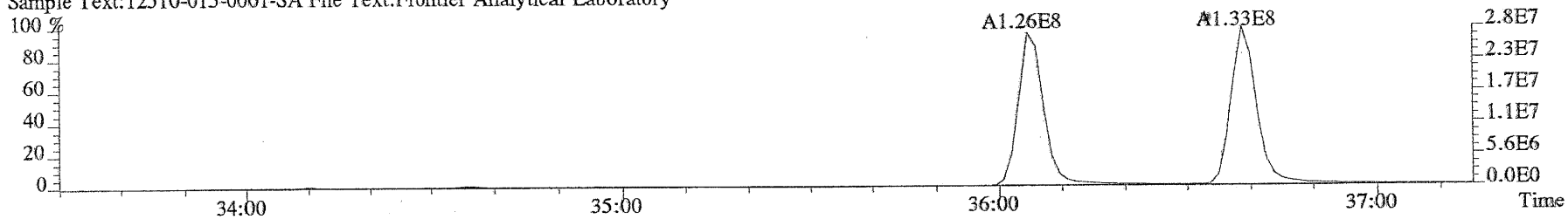
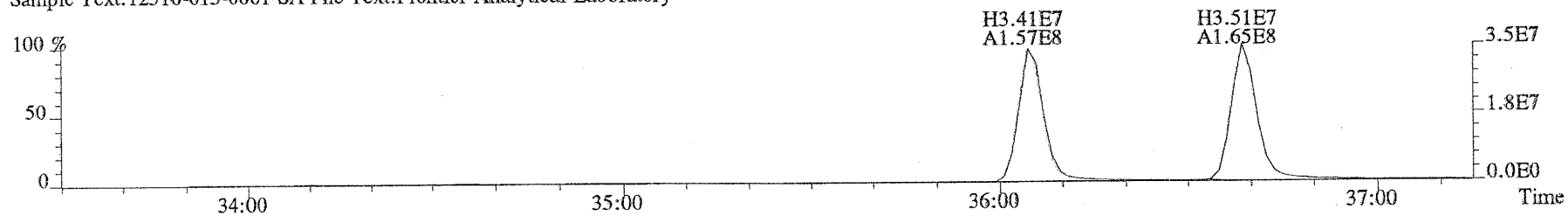


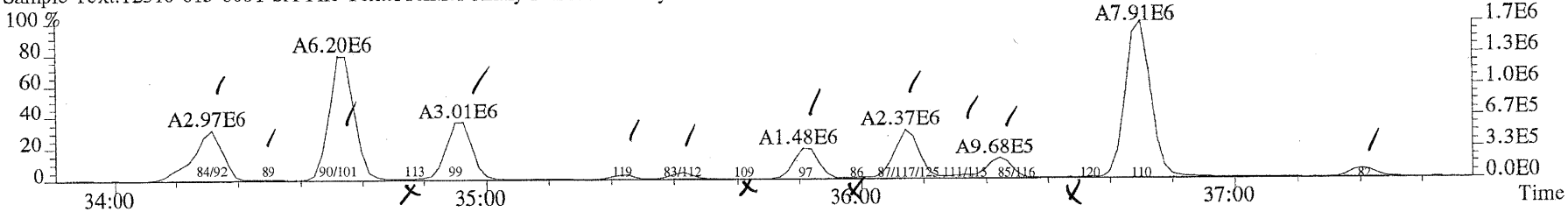
File:02AUG19Z #1-181 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



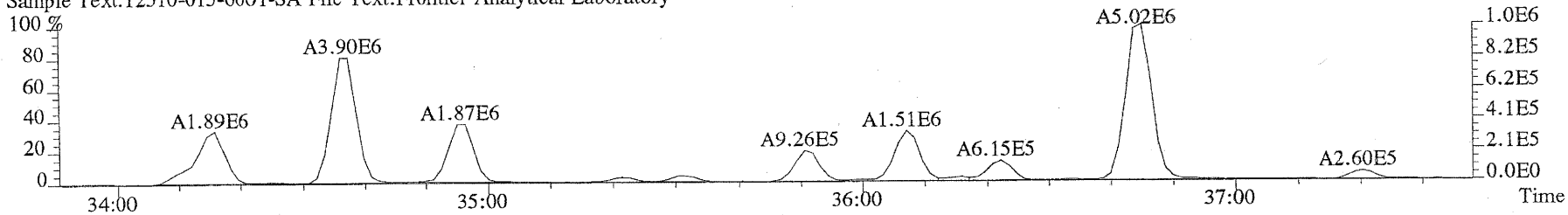
File:02AUG19Z #1-181 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



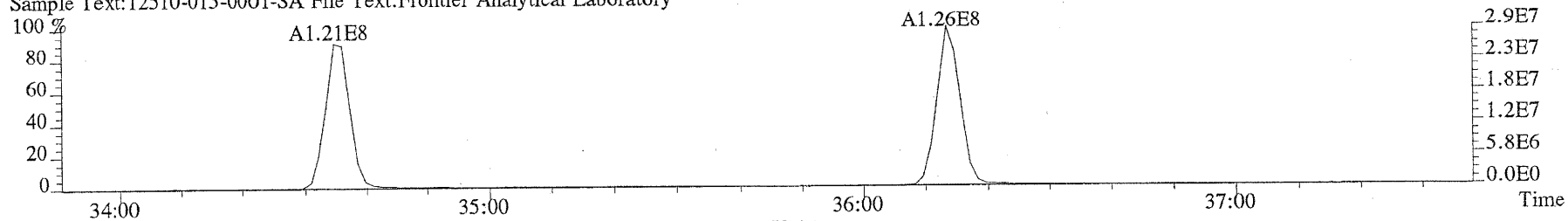
File:02AUG19Z #1-181 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



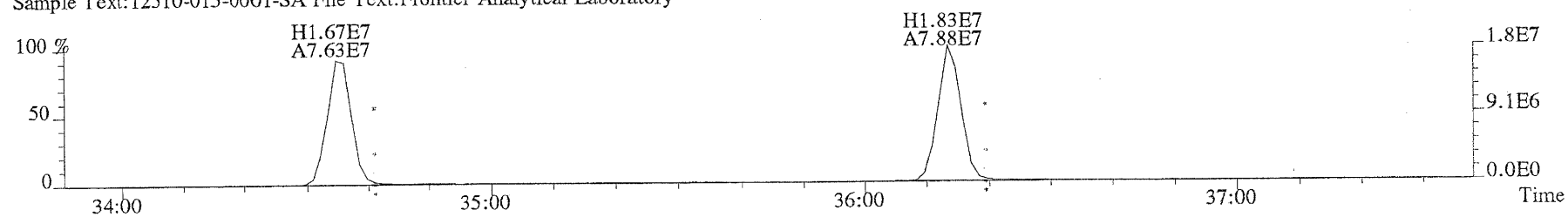
File:02AUG19Z #1-181 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



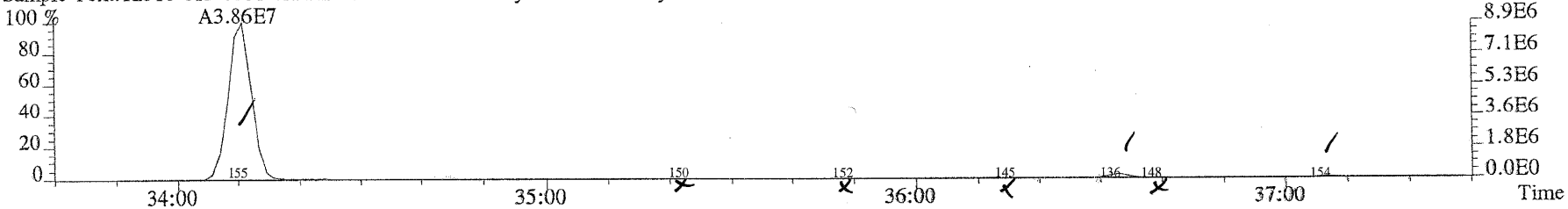
File:02AUG19Z #1-181 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



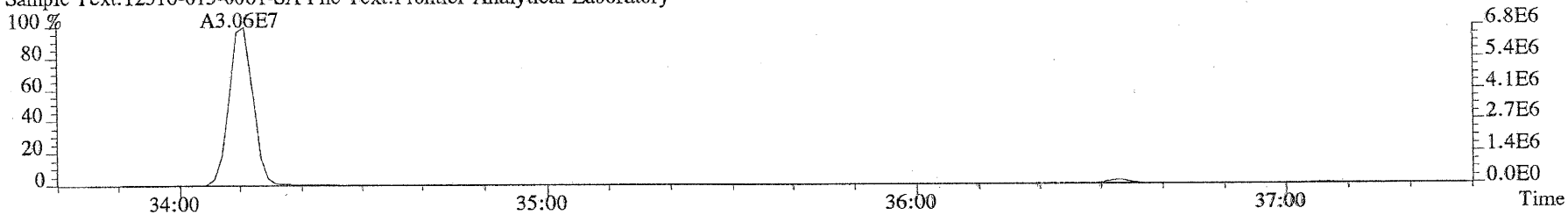
File:02AUG19Z #1-181 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



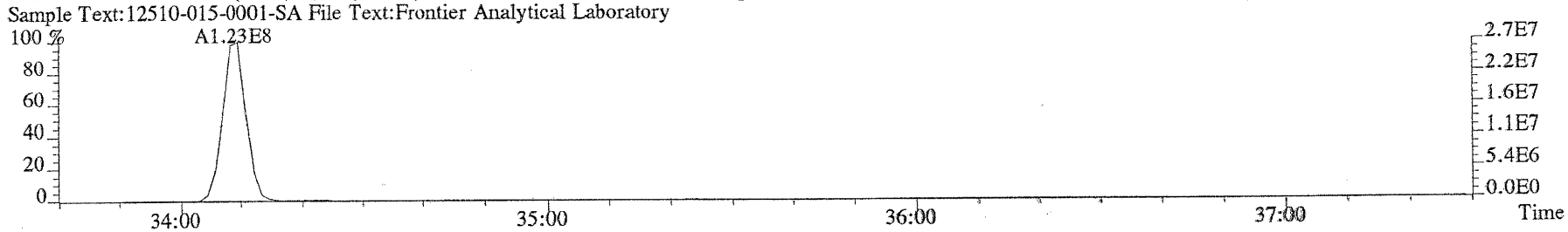
File:02AUG19Z #1-181 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



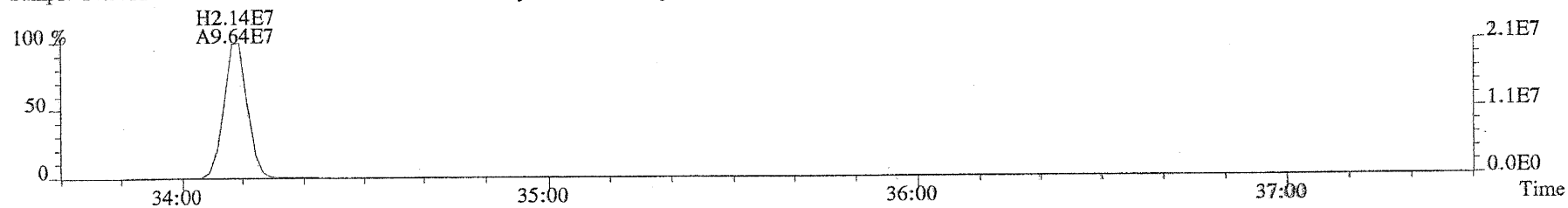
File:02AUG19Z #1-181 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



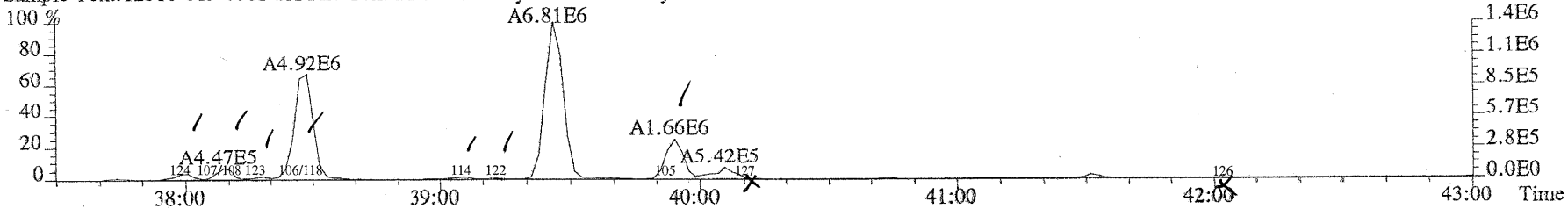
File:02AUG19Z #1-181 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



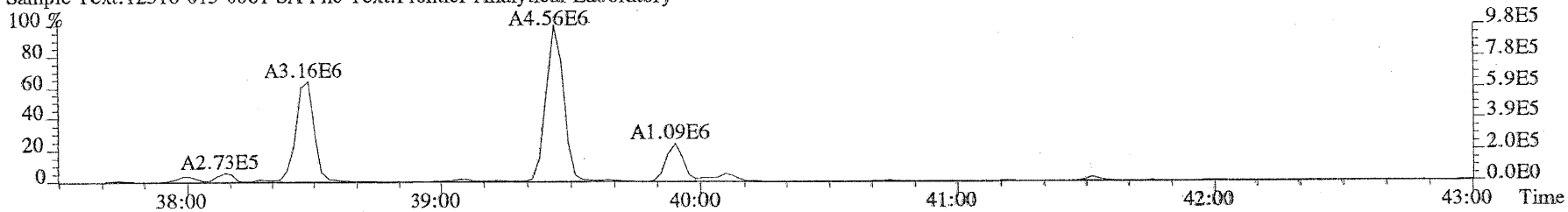
File:02AUG19Z #1-181 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



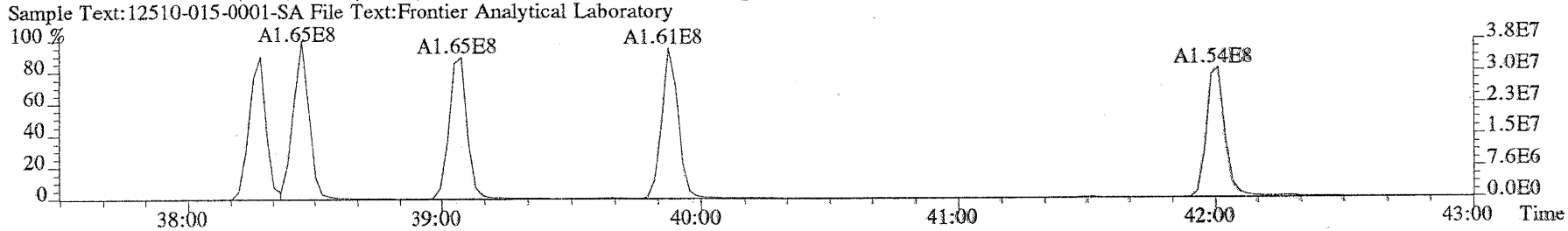
File:02AUG19Z #1-405 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



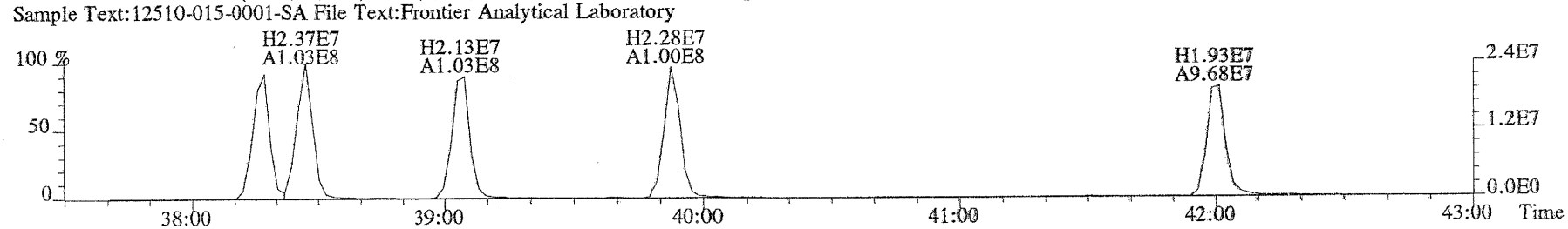
File:02AUG19Z #1-405 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



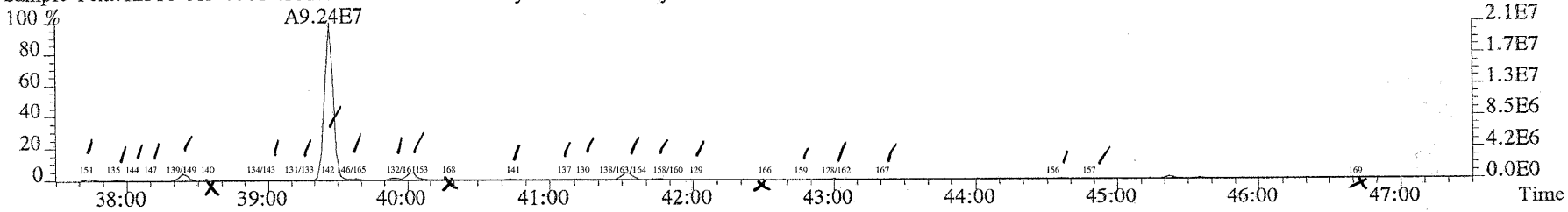
File:02AUG19Z #1-405 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



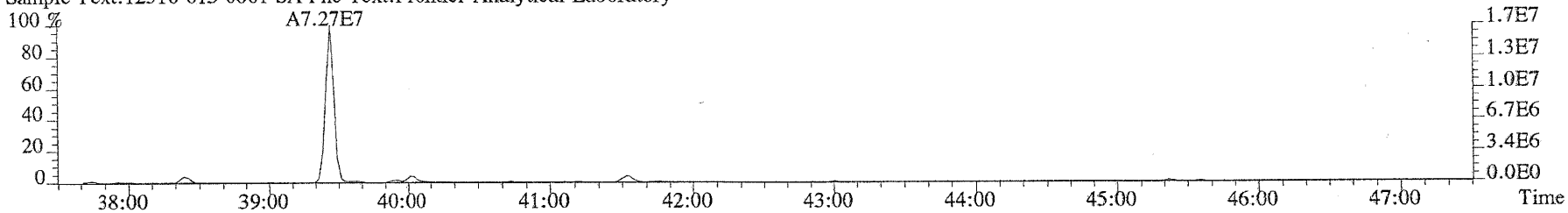
File:02AUG19Z #1-405 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



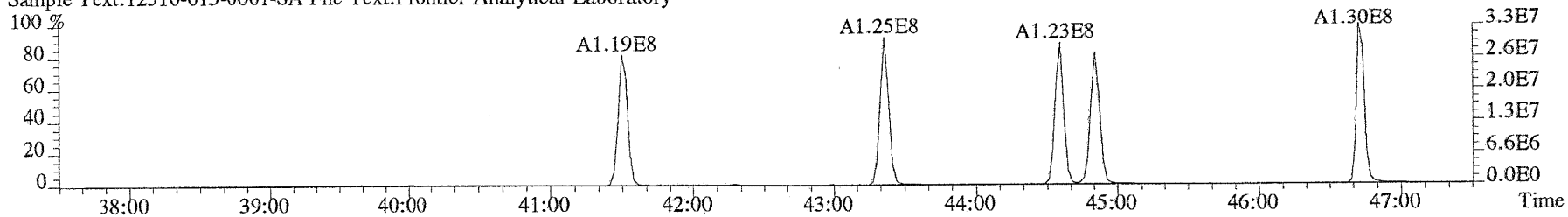
File:02AUG19Z #1-405 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



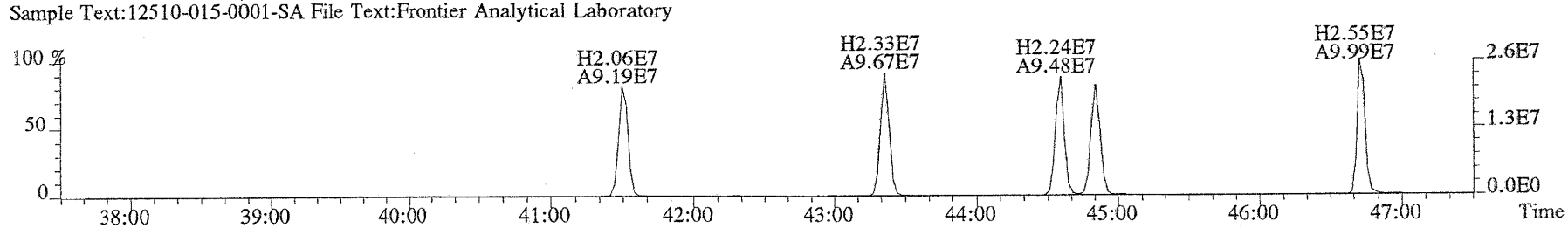
File:02AUG19Z #1-405 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-405 Acq: 2-AUG-2019 19:42:07 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:12510-015-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-405 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
373.8788 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:12510-015-0001-SA File Text:Frontier Analytical Laboratory



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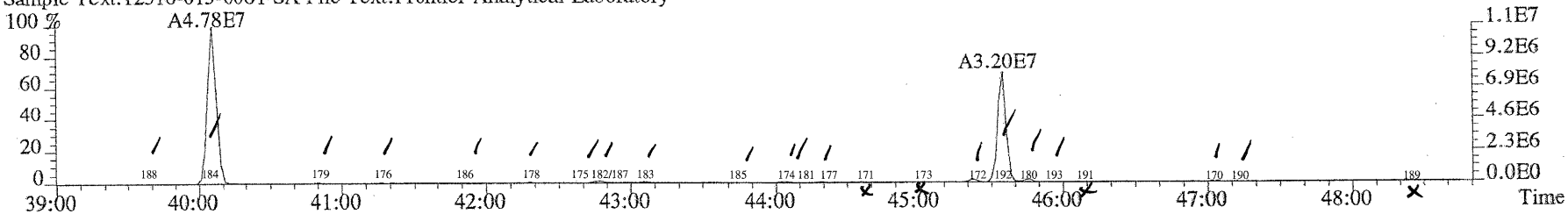
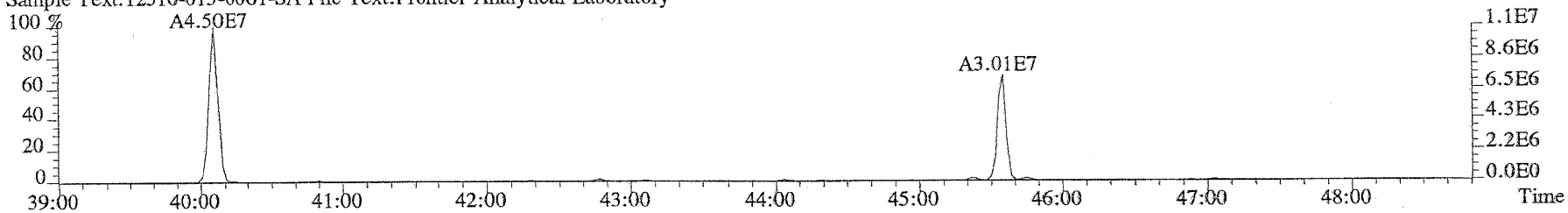
393.8025 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-405 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
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:12510-015-0001-SA File Text:Frontier Analytical Laboratory



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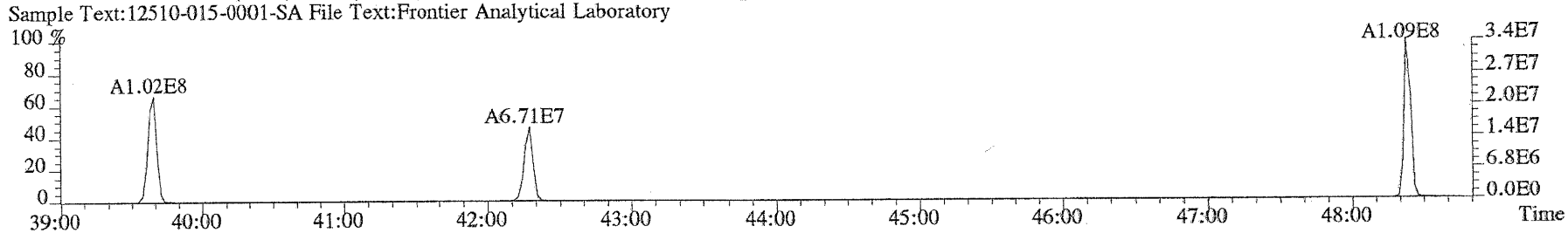
405.8428 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



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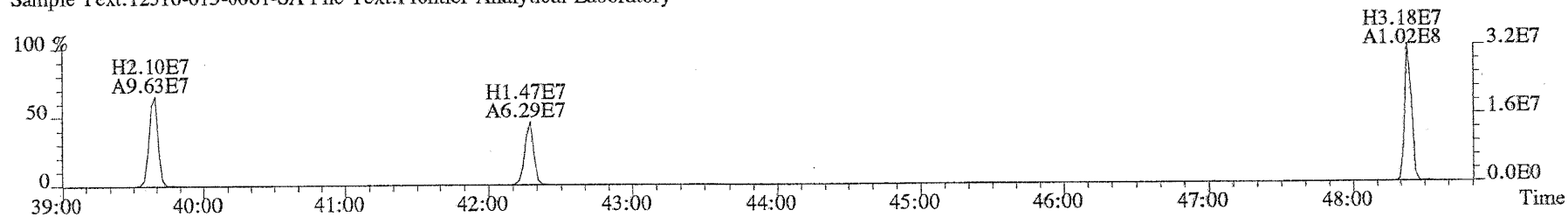
407.8398 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



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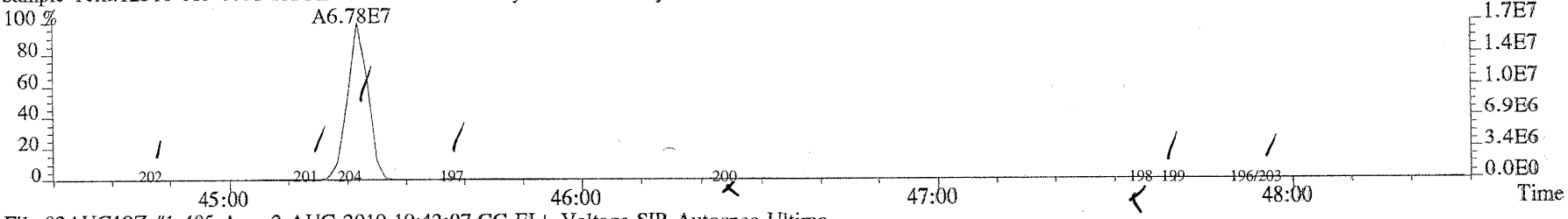
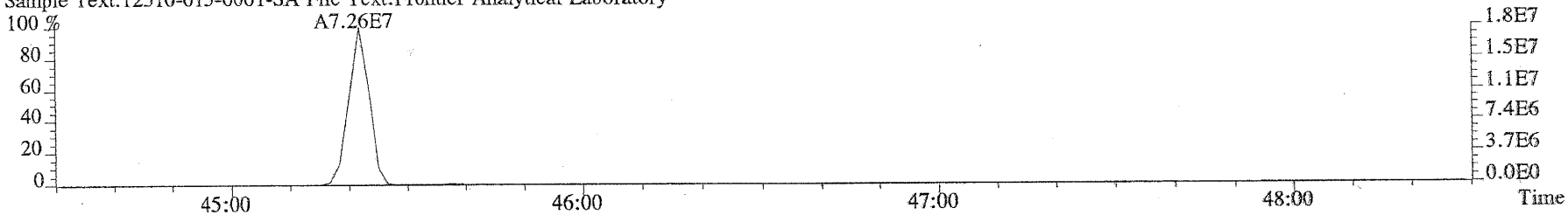
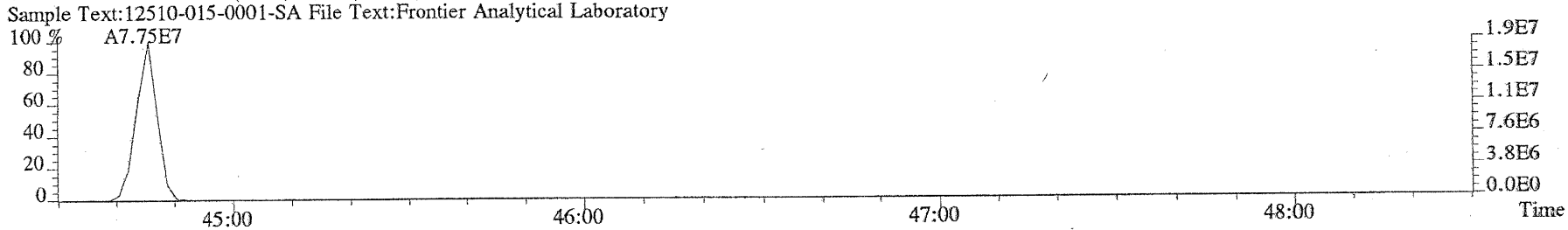
427.7635 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



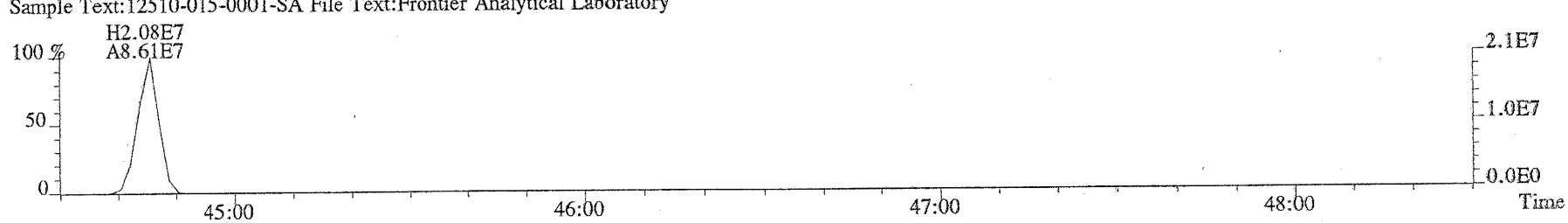
File:02AUG19Z #1-405 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



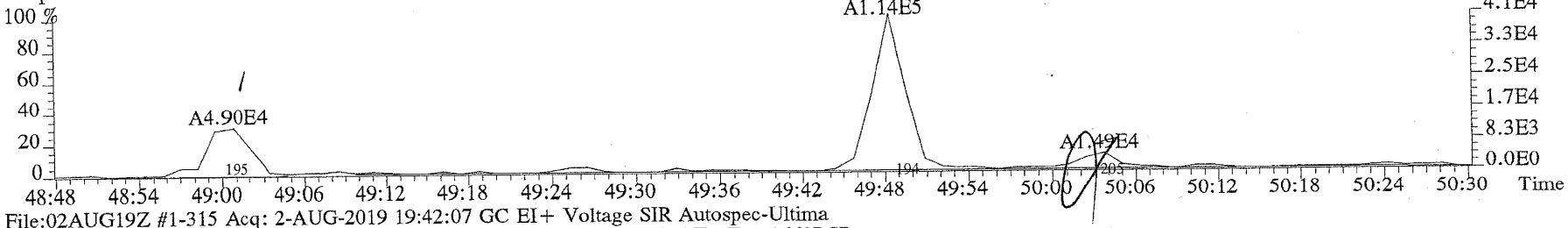
File:02AUG19Z #1-405 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



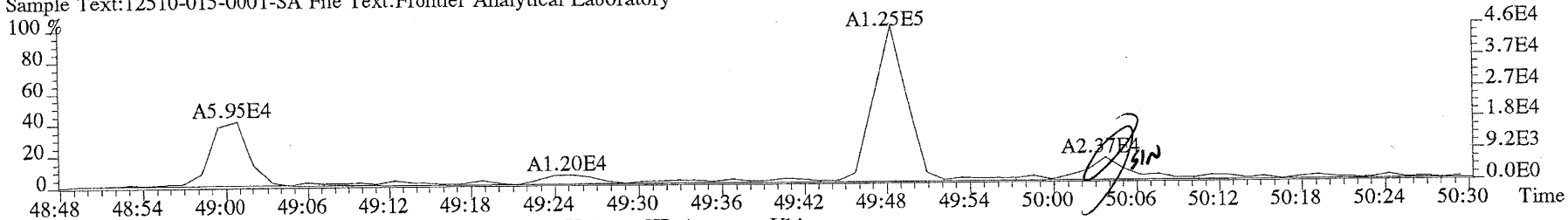
File:02AUG19Z #1-405 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



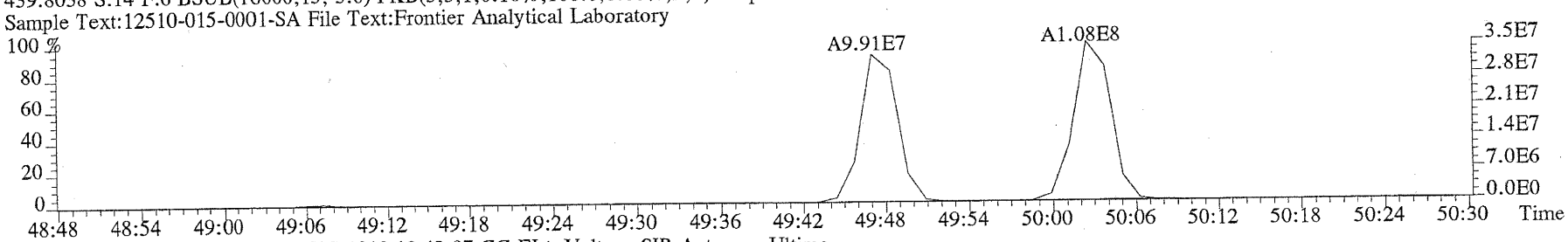
File:02AUG19Z #1-315 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



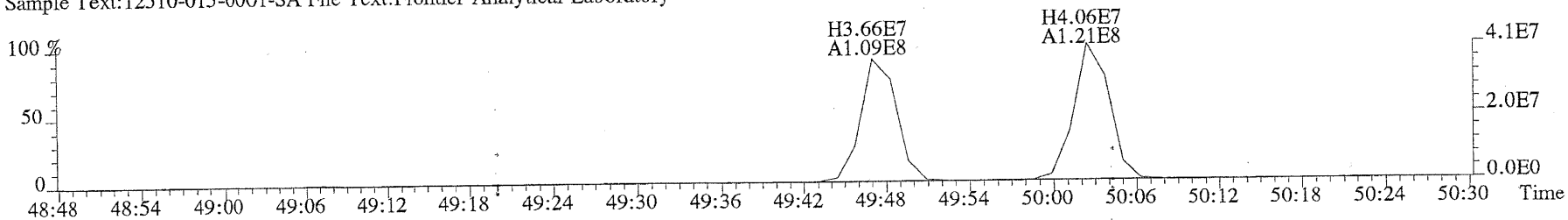
File:02AUG19Z #1-315 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0:10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



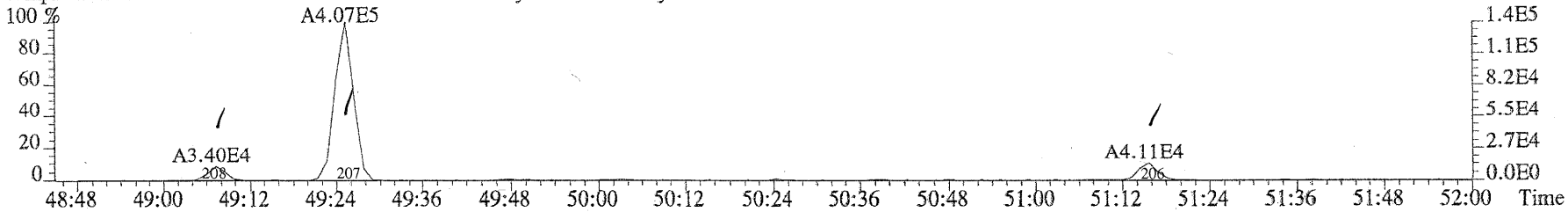
File:02AUG19Z #1-315 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 19:42:07 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:12510-015-0001-SA File Text:Frontier Analytical Laboratory



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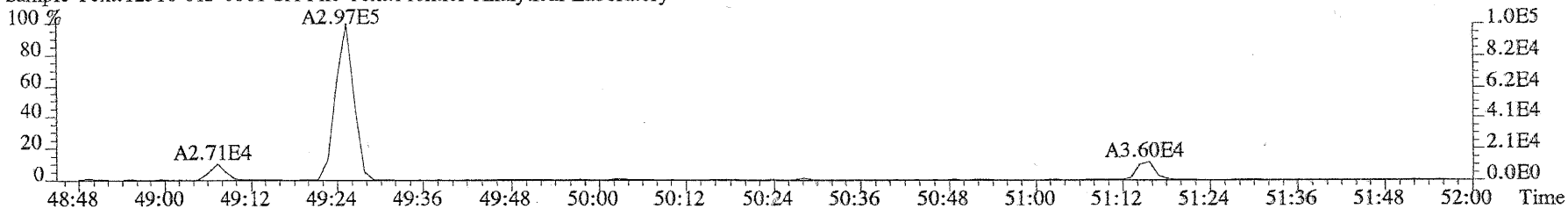
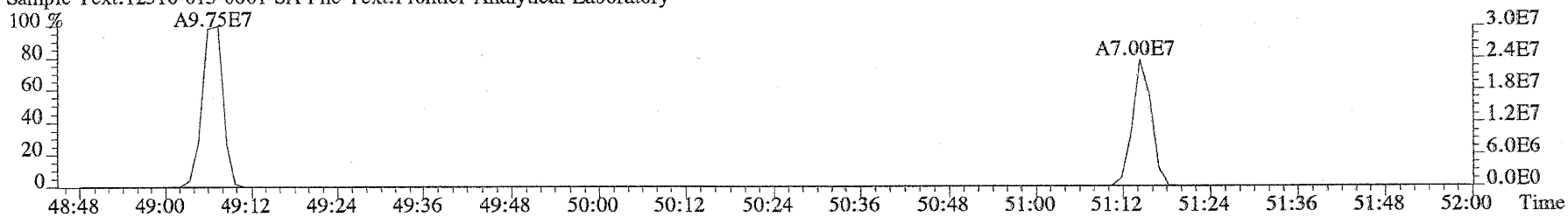
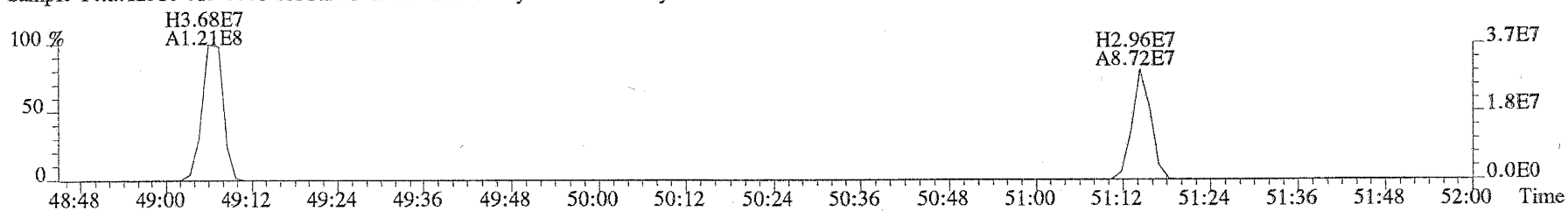
465.7187 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



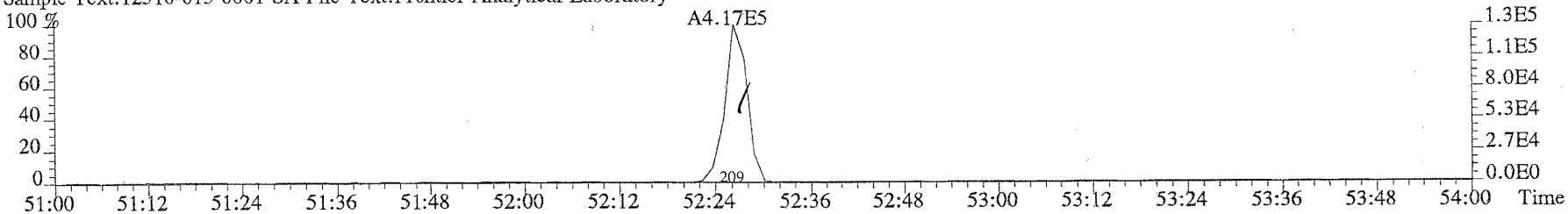
File:02AUG19Z #1-315 Acq: 2-AUG-2019 19:42:07 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 19:42:07 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:12510-015-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 19:42:07 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:12510-015-0001-SA File Text:Frontier Analytical Laboratory



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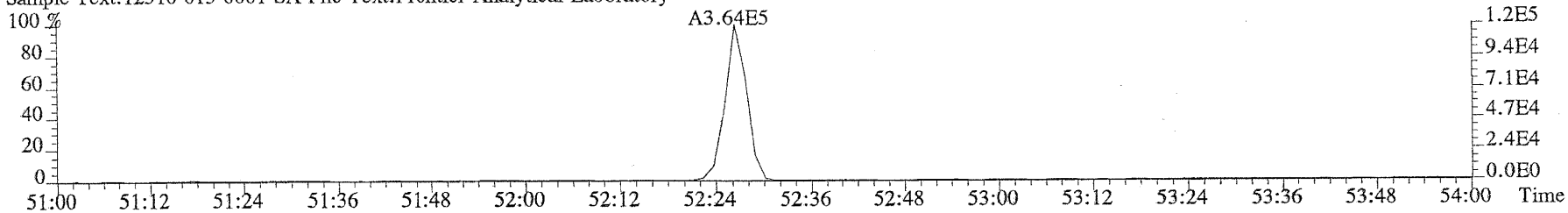
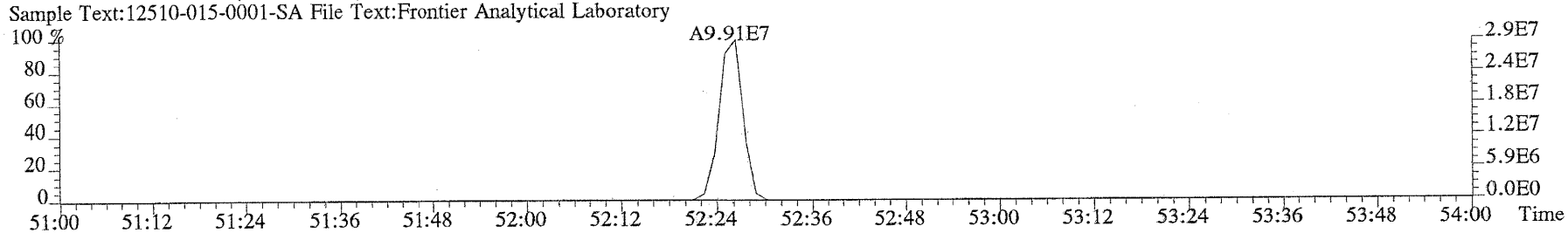
499.6797 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-315 Acq: 2-AUG-2019 19:42:07 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:12510-015-0001-SA File Text:Frontier Analytical Laboratory



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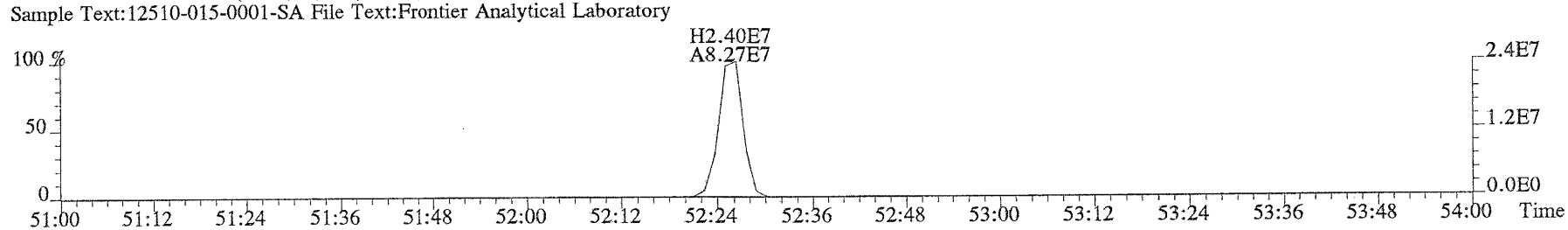
511.7199 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:12510-015-0001-SA File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

Data Filename: 03APR19Z

Analyte: Cal: 1668FAL4-4-3-19

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	1.19	0.0394	3.30 %	1.27	1.16	1.18	1.19	1.19	1.17
13C-PCB-1	1.02	0.101	9.92 %	0.83	1.00	1.02	1.05	1.12	1.08
PCB-3	1.18	0.0451	3.83 %	1.25	1.17	1.11	1.19	1.18	1.16
13C-PCB-3	0.97	0.0883	9.13 %	0.84	0.93	0.93	0.98	1.06	1.08
PCB-4	1.04	0.0465	4.45 %	1.14	1.03	1.02	1.02	1.02	1.04
13C-PCB-4	0.74	0.0321	4.35 %	0.68	0.74	0.77	0.72	0.74	0.77
PCB-15	1.03	0.0221	2.14 %	1.07	1.01	1.03	1.02	1.03	1.02
13C-PCB-15	0.96	0.130	13.6 %	0.86	0.89	0.90	0.93	0.99	1.21
PCB-19	1.11	0.0556	5.01 %	1.10	1.05	1.06	1.12	1.14	1.20
13C-PCB-19	0.53	0.0341	6.49 %	0.47	0.50	0.52	0.54	0.55	0.57
13C-PCB-9	-	-	- %	-	-	-	-	-	-
PCB-37	1.04	0.0411	3.96 %	1.05	0.97	1.00	1.06	1.06	1.07
13C-PCB-37	1.57	0.149	9.53 %	1.51	1.52	1.50	1.43	1.58	1.85
PCB-54	1.16	0.0325	2.80 %	1.17	1.11	1.16	1.19	1.20	1.15
13C-PCB-54	1.38	0.0477	3.45 %	1.30	1.38	1.37	1.40	1.43	1.42
PCB-104	1.08	0.0394	3.65 %	1.04	1.03	1.08	1.11	1.14	1.08
13C-PCB-104	1.11	0.0177	1.60 %	1.11	1.09	1.09	1.09	1.12	1.13
13C-PCB-28	1.71	0.0367	2.15 %	1.68	1.75	1.75	1.71	1.67	1.69
13C-PCB-52	-	-	- %	-	-	-	-	-	-
PCB-81	1.06	0.0343	3.22 %	1.09	1.03	1.02	1.07	1.11	1.07
13C-PCB-81	1.50	0.216	14.4 %	1.36	1.40	1.40	1.41	1.50	1.93
PCB-77	1.02	0.0412	4.03 %	1.07	0.98	0.98	1.02	1.07	1.02
13C-PCB-77	1.57	0.234	14.9 %	1.41	1.46	1.46	1.46	1.57	2.03
PCB-155	1.02	0.0252	2.46 %	1.04	0.98	1.01	1.03	1.05	1.03
13C-PCB-155	1.42	0.0794	5.60 %	1.30	1.41	1.38	1.41	1.47	1.54
13C-PCB-111	1.29	0.0452	3.50 %	1.21	1.28	1.28	1.30	1.32	1.34
13C-PCB-101	-	-	- %	-	-	-	-	-	-
PCB-123	1.03	0.0404	3.91 %	1.10	0.98	1.01	1.03	1.06	1.02
13C-PCB-123	1.40	0.121	8.63 %	1.31	1.36	1.32	1.32	1.44	1.62
PCB-118	1.02	0.0308	3.03 %	1.05	1.01	0.97	1.01	1.05	1.03
13C-PCB-118	1.53	0.142	9.23 %	1.45	1.45	1.47	1.48	1.55	1.81
PCB-114	1.01	0.0336	3.32 %	1.07	0.97	1.01	0.99	1.03	1.01
13C-PCB-114	1.45	0.169	11.7 %	1.34	1.37	1.36	1.38	1.45	1.78
PCB-105	1.02	0.0455	4.48 %	1.10	0.98	0.98	1.00	1.04	1.00
13C-PCB-105	1.44	0.170	11.8 %	1.34	1.36	1.34	1.36	1.47	1.77
PCB-126	1.02	0.0482	4.74 %	1.10	0.98	0.98	1.02	1.03	0.99
13C-PCB-126	1.37	0.170	12.4 %	1.27	1.31	1.28	1.27	1.40	1.70
PCB-167	1.07	0.0230	2.16 %	1.08	1.04	1.04	1.08	1.10	1.06
13C-PCB-167	1.28	0.145	11.3 %	1.21	1.21	1.21	1.19	1.32	1.56
PCB-156	1.10	0.0210	1.91 %	1.11	1.06	1.11	1.09	1.11	1.11
13C-PCB-156	1.24	0.108	8.74 %	1.15	1.19	1.17	1.19	1.28	1.44
PCB-157	1.06	0.0411	3.87 %	1.14	1.03	1.02	1.06	1.06	1.05
13C-PCB-157	1.34	0.187	14.0 %	1.22	1.25	1.23	1.23	1.40	1.69
PCB-169	1.06	0.0264	2.49 %	1.06	1.02	1.06	1.09	1.09	1.05
13C-PCB-169	1.24	0.156	12.5 %	1.15	1.20	1.15	1.14	1.28	1.54
PCB-188	1.02	0.0577	5.68 %	0.98	0.94	0.99	1.05	1.09	1.05
13C-PCB-188	1.29	0.0657	5.10 %	1.29	1.25	1.25	1.25	1.27	1.42
PCB-189	0.99	0.0592	5.96 %	1.01	0.92	0.96	0.99	1.10	0.98
13C-PCB-189	1.07	0.111	10.4 %	1.00	1.05	1.02	1.00	1.05	1.29
PCB-202	0.99	0.0469	4.75 %	1.00	0.94	0.96	1.03	1.06	0.94
13C-PCB-202	1.09	0.0625	5.74 %	1.05	1.08	1.06	1.05	1.07	1.21
13C-PCB-178	0.81	0.0127	1.57 %	0.78	0.81	0.82	0.80	0.81	0.80
13C-PCB-138	-	-	- %	-	-	-	-	-	-

PCB-205	1.02	0.0515	5.03	%	1.03	1.01	1.02	1.05	1.09	0.93
13C-PCB-205	1.40	0.0979	6.99	%	1.33	1.35	1.33	1.37	1.44	1.58
PCB-208	0.98	0.0378	3.88	%	0.99	0.96	0.97	1.01	1.01	0.91
13C-PCB-208	1.36	0.0808	5.93	%	1.36	1.35	1.23	1.38	1.37	1.48
PCB-206	0.99	0.0475	4.78	%	0.96	0.96	1.00	1.03	1.07	0.95
13C-PCB-206	1.01	0.0303	3.01	%	1.03	0.99	0.96	0.99	1.02	1.05
PCB-209	1.09	0.0749	6.87	%	1.18	1.03	1.07	1.12	1.15	0.99
13C-PCB-209	1.21	0.0602	4.97	%	1.11	1.23	1.18	1.21	1.25	1.29
13C-PCB-194	-	-	-	%	-	-	-	-	-	-

Analyst: _____ Date: 4/3/19

Run #1 Filename 03APR19Z S: 1 Acquired: 3-APR-19 07:41:54 Cal: 1668FAL4-4-3-19
Client ID: ST040319Z0 Analyte: FAL ID: 1668 CS077 R170821A

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	0.20	3.42e+05	3.18	y	14:32	-	1.27	y
2	IS/RT	13C-PCB-1	100.00	1.34e+08	3.30	y	14:31	-	0.830	y
3	Unk	PCB-3	0.20	3.39e+05	3.26	y	16:58	-	1.25	y
4	IS/RT	13C-PCB-3	100.00	1.36e+08	3.28	y	16:56	-	0.840	y
5	Unk	PCB-4	0.20	2.51e+05	1.33	y	18:12	-	1.14	y
6	IS/RT	13C-PCB-4	100.00	1.11e+08	1.57	y	18:11	-	0.683	y
7	Unk	PCB-15	0.20	2.99e+05	1.50	y	23:45	-	1.07	y
8	IS/RT	13C-PCB-15	100.00	1.40e+08	1.57	y	23:43	-	0.863	y
9	Unk	PCB-19	0.20	1.68e+05	1.10	y	22:05	-	1.10	y
10	IS/RT	13C-PCB-19	100.00	7.65e+07	1.06	y	22:04	-	0.473	y
11	RS	13C-PCB-9	100.00	1.62e+08	1.61	y	19:51	1.62e+06	-	n
12	Unk	PCB-37	0.20	2.42e+05	1.09	y	30:26	-	1.05	y
13	IS	13C-PCB-37	100.00	1.15e+08	1.08	y	30:25	-	1.51	y
14	Unk	PCB-54	0.20	2.30e+05	0.76	y	25:39	-	1.17	y
15	IS/RT	13C-PCB-54	100.00	9.85e+07	0.81	y	25:38	-	1.30	y
16	Unk	PCB-104	0.20	1.76e+05	1.57	y	30:07	-	1.04	y
17	IS	13C-PCB-104	100.00	8.44e+07	1.60	y	30:06	-	1.11	y
18	C/Up	13C-PCB-28	100.00	1.27e+08	1.06	y	26:42	-	1.68	y
19	RS	13C-PCB-52	100.00	7.59e+07	0.80	y	29:00	7.59e+05	-	n
20	Unk	PCB-81	0.20	2.05e+05	0.76	y	36:12	-	1.09	y
21	IS	13C-PCB-81	100.00	9.38e+07	0.78	y	36:12	-	1.36	y
22	Unk	PCB-77	0.20	2.07e+05	0.81	y	36:48	-	1.07	y
23	IS/RT	13C-PCB-77	100.00	9.72e+07	0.79	y	36:45	-	1.41	y
24	Unk	PCB-155	0.20	1.86e+05	1.23	y	34:17	-	1.04	y
25	IS	13C-PCB-155	100.00	8.96e+07	1.28	y	34:16	-	1.30	y
26	C/Up	13C-PCB-111	100.00	8.34e+07	1.59	y	36:21	-	1.21	y
27	RS	13C-PCB-101	100.00	6.87e+07	1.60	y	34:42	6.87e+05	-	n
28	Unk	PCB-123	0.20	1.91e+05	1.44	y	38:25	-	1.10	y
29	IS	13C-PCB-123	100.00	8.71e+07	1.59	y	38:24	-	1.31	y
30	Unk	PCB-118	0.20	2.02e+05	1.48	y	38:35	-	1.05	y
31	IS	13C-PCB-118	100.00	9.61e+07	1.62	y	38:33	-	1.45	y
32	Unk	PCB-114	0.20	1.90e+05	1.36	y	39:13	-	1.07	y
33	IS	13C-PCB-114	100.00	8.93e+07	1.61	y	39:11	-	1.34	y
34	Unk	PCB-105	0.20	1.95e+05	1.62	y	40:01	-	1.10	y
35	IS	13C-PCB-105	100.00	8.89e+07	1.60	y	40:01	-	1.34	y
36	Unk	PCB-126	0.20	1.86e+05	1.37	y	42:09	-	1.10	y
37	IS	13C-PCB-126	100.00	8.43e+07	1.61	y	42:07	-	1.27	y
38	Unk	PCB-167	0.20	1.74e+05	1.21	y	43:30	-	1.08	y
39	IS	13C-PCB-167	100.00	8.02e+07	1.28	y	43:30	-	1.21	y
40	Unk	PCB-156	0.20	1.70e+05	1.31	y	44:44	-	1.11	y
41	IS	13C-PCB-156	100.00	7.66e+07	1.29	y	44:44	-	1.15	y
42	Unk	PCB-157	0.20	1.85e+05	1.31	y	44:59	-	1.14	y
43	IS	13C-PCB-157	100.00	8.11e+07	1.29	y	44:59	-	1.22	y
44	Unk	PCB-169	0.20	1.63e+05	1.40	y	46:51	-	1.06	y
45	IS	13C-PCB-169	100.00	7.66e+07	1.31	y	46:49	-	1.15	y
46	Unk	PCB-188	0.20	1.68e+05	1.00	y	39:47	-	0.978	y
47	IS	13C-PCB-188	100.00	8.59e+07	1.07	y	39:46	-	1.29	y
48	Unk	PCB-189	0.20	1.34e+05	1.07	y	48:29	-	1.01	y
49	IS	13C-PCB-189	100.00	6.62e+07	1.06	y	48:29	-	0.997	y
50	Unk	PCB-202	0.20	1.39e+05	0.93	y	44:55	-	0.997	y
51	IS	13C-PCB-202	100.00	6.95e+07	0.91	y	44:54	-	1.05	y
52	C/Up	13C-PCB-178	100.00	5.21e+07	1.07	y	42:24	-	0.784	y
53	RS	13C-PCB-138	100.00	6.64e+07	1.28	y	41:38	6.64e+05	-	n

54	Unk	PCB-205	0.20	1.68e+05	0.90 y	50:09	-	1.03	y	
55	IS	13C-PCB-205	100.00	8.13e+07	0.89 y	50:08	-	1.33	y	
56	Unk	PCB-208	0.20	1.64e+05	1.42 y	49:12	-	0.991	y	
57	IS	13C-PCB-208	100.00	8.30e+07	0.81 y	49:12	-	1.36	y	
58	Unk	PCB-206	0.20	1.20e+05	1.48 y	51:21	-	0.956	y	
59	IS	13C-PCB-206	100.00	6.26e+07	0.79 y	51:21	-	1.03	y	
60	Unk	PCB-209	0.20	1.61e+05	1.20 y	52:31	-	1.18	y	
61	IS	13C-PCB-209	100.00	6.79e+07	1.21 y	52:31	-	1.11	y	
62	RS	13C-PCB-194	100.00	6.09e+07	0.91 y	49:52	6.09e+05	-	n	

Analyst: _____ Date: 4/3/19

Run #2 Filename 03APR19Z S: 2 Acquired: 3-APR-19 08:40:14 Cal: 1668FAL4-4-3-19
Client ID: ST040319Z1 Analyte: FAL ID: 1668 CS177 R170213A

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	1.00	1.18e+06	3.28	y	14:36	-	1.16	y
2	IS/RT	13C-PCB-1	100.00	1.01e+08	3.26	y	14:35	-	1.00	y
3	Unk	PCB-3	1.00	1.10e+06	3.31	y	17:02	-	1.17	y
4	IS/RT	13C-PCB-3	100.00	9.39e+07	3.25	y	17:01	-	0.931	y
5	Unk	PCB-4	1.00	7.72e+05	1.34	y	18:16	-	1.03	y
6	IS/RT	13C-PCB-4	100.00	7.48e+07	1.61	y	18:15	-	0.742	y
7	Unk	PCB-15	1.00	9.02e+05	1.44	y	23:48	-	1.01	y
8	IS/RT	13C-PCB-15	100.00	8.93e+07	1.57	y	23:47	-	0.886	y
9	Unk	PCB-19	1.00	5.32e+05	1.08	y	22:09	-	1.05	y
10	IS/RT	13C-PCB-19	100.00	5.07e+07	1.07	y	22:08	-	0.503	y
11	RS	13C-PCB-9	100.00	1.01e+08	1.59	y	19:56	1.01e+06	-	n
12	Unk	PCB-37	1.00	6.96e+05	1.07	y	30:27	-	0.970	y
13	IS	13C-PCB-37	100.00	7.17e+07	1.06	y	30:26	-	1.52	y
14	Unk	PCB-54	1.00	7.25e+05	0.81	y	25:42	-	1.11	y
15	IS/RT	13C-PCB-54	100.00	6.53e+07	0.82	y	25:40	-	1.38	y
16	Unk	PCB-104	1.00	5.33e+05	1.54	y	30:08	-	1.03	y
17	IS	13C-PCB-104	100.00	5.16e+07	1.59	y	30:06	-	1.09	y
18	C/Up	13C-PCB-28	100.00	8.29e+07	1.06	y	26:45	-	1.75	y
19	RS	13C-PCB-52	100.00	4.73e+07	0.80	y	29:01	4.73e+05	-	n
20	Unk	PCB-81	1.00	5.79e+05	0.82	y	36:13	-	1.03	y
21	IS	13C-PCB-81	100.00	5.64e+07	0.79	y	36:11	-	1.40	y
22	Unk	PCB-77	1.00	5.75e+05	0.75	y	36:46	-	0.976	y
23	IS/RT	13C-PCB-77	100.00	5.89e+07	0.78	y	36:45	-	1.46	y
24	Unk	PCB-155	1.00	5.56e+05	1.26	y	34:17	-	0.980	y
25	IS	13C-PCB-155	100.00	5.67e+07	1.26	y	34:16	-	1.41	y
26	C/Up	13C-PCB-111	100.00	5.14e+07	1.61	y	36:21	-	1.28	y
27	RS	13C-PCB-101	100.00	4.03e+07	1.60	y	34:42	4.03e+05	-	n
28	Unk	PCB-123	1.00	5.14e+05	1.64	y	38:25	-	0.981	y
29	IS	13C-PCB-123	100.00	5.24e+07	1.58	y	38:24	-	1.36	y
30	Unk	PCB-118	1.00	5.63e+05	1.48	y	38:35	-	1.01	y
31	IS	13C-PCB-118	100.00	5.59e+07	1.59	y	38:33	-	1.45	y
32	Unk	PCB-114	1.00	5.14e+05	1.55	y	39:11	-	0.972	y
33	IS	13C-PCB-114	100.00	5.28e+07	1.58	y	39:11	-	1.37	y
34	Unk	PCB-105	1.00	5.17e+05	1.47	y	40:01	-	0.983	y
35	IS	13C-PCB-105	100.00	5.26e+07	1.59	y	39:59	-	1.36	y
36	Unk	PCB-126	1.00	4.93e+05	1.58	y	42:09	-	0.975	y
37	IS	13C-PCB-126	100.00	5.05e+07	1.59	y	42:07	-	1.31	y
38	Unk	PCB-167	1.00	4.87e+05	1.28	y	43:30	-	1.04	y
39	IS	13C-PCB-167	100.00	4.67e+07	1.30	y	43:28	-	1.21	y
40	Unk	PCB-156	1.00	4.86e+05	1.23	y	44:44	-	1.06	y
41	IS	13C-PCB-156	100.00	4.60e+07	1.32	y	44:42	-	1.19	y
42	Unk	PCB-157	1.00	4.98e+05	1.28	y	44:59	-	1.03	y
43	IS	13C-PCB-157	100.00	4.82e+07	1.29	y	44:57	-	1.25	y
44	Unk	PCB-169	1.00	4.72e+05	1.25	y	46:49	-	1.02	y
45	IS	13C-PCB-169	100.00	4.63e+07	1.29	y	46:49	-	1.20	y
46	Unk	PCB-188	1.00	4.52e+05	1.01	y	39:48	-	0.938	y
47	IS	13C-PCB-188	100.00	4.82e+07	1.04	y	39:46	-	1.25	y
48	Unk	PCB-189	1.00	3.73e+05	1.08	y	48:29	-	0.922	y
49	IS	13C-PCB-189	100.00	4.04e+07	1.07	y	48:29	-	1.05	y
50	Unk	PCB-202	1.00	3.96e+05	0.92	y	44:54	-	0.944	y
51	IS	13C-PCB-202	100.00	4.19e+07	0.91	y	44:52	-	1.08	y
52	C/Up	13C-PCB-178	100.00	3.15e+07	1.05	y	42:24	-	0.814	y
53	RS	13C-PCB-138	100.00	3.87e+07	1.29	y	41:38	3.87e+05	-	n

54	Unk	PCB-205	1.00	5.02e+05	0.89	y	50:09	-	1.01	y
55	IS	13C-PCB-205	100.00	4.96e+07	0.91	y	50:08	-	1.35	y
56	Unk	PCB-208	1.00	4.77e+05	1.34	y	49:12	-	0.961	y
57	IS	13C-PCB-208	100.00	4.97e+07	0.81	y	49:11	-	1.35	y
58	Unk	PCB-206	1.00	3.52e+05	1.37	y	51:21	-	0.961	y
59	IS	13C-PCB-206	100.00	3.66e+07	0.81	y	51:20	-	0.993	y
60	Unk	PCB-209	1.00	4.67e+05	1.21	y	52:32	-	1.03	y
61	IS	13C-PCB-209	100.00	4.53e+07	1.21	y	52:30	-	1.23	y
62	RS	13C-PCB-194	100.00	3.69e+07	0.90	y	49:52	3.69e+05	-	n

Analyst: [signature] Date: 4/3/19

Run #3 Filename 03APR19Z S: 3 Acquired: 3-APR-19 09:38:36 Cal: 1668FAL4-4-3-19
Client ID: ST040319Z2 Analyte: FAL ID: 1668 CS277 R170213B

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	5.00	3.43e+06	3.20	y	14:36	-	1.18	y
2	IS/RT	13C-PCB-1	100.00	5.81e+07	3.23	y	14:35	-	1.02	y
3	Unk	PCB-3	5.00	2.91e+06	3.01	y	17:02	-	1.11	y
4	IS/RT	13C-PCB-3	100.00	5.26e+07	3.26	y	17:01	-	0.927	y
5	Unk	PCB-4	5.00	2.21e+06	1.39	y	18:16	-	1.02	y
6	IS/RT	13C-PCB-4	100.00	4.36e+07	1.56	y	18:15	-	0.768	y
7	Unk	PCB-15	5.00	2.63e+06	1.35	y	23:48	-	1.03	y
8	IS/RT	13C-PCB-15	100.00	5.09e+07	1.59	y	23:47	-	0.897	y
9	Unk	PCB-19	5.00	1.56e+06	1.07	y	22:10	-	1.06	y
10	IS/RT	13C-PCB-19	100.00	2.95e+07	1.08	y	22:08	-	0.521	y
11	RS	13C-PCB-9	100.00	5.67e+07	1.59	y	19:55	5.67e+05	-	n
12	Unk	PCB-37	5.00	2.05e+06	1.06	y	30:27	-	1.00	y
13	IS	13C-PCB-37	100.00	4.09e+07	1.08	y	30:26	-	1.50	y
14	Unk	PCB-54	5.00	2.16e+06	0.81	y	25:41	-	1.16	y
15	IS/RT	13C-PCB-54	100.00	3.73e+07	0.80	y	25:40	-	1.37	y
16	Unk	PCB-104	5.00	1.61e+06	1.54	y	30:07	-	1.08	y
17	IS	13C-PCB-104	100.00	2.98e+07	1.61	y	30:06	-	1.09	y
18	C/Up	13C-PCB-28	100.00	4.78e+07	1.07	y	26:45	-	1.75	y
19	RS	13C-PCB-52	100.00	2.73e+07	0.80	y	29:01	2.73e+05	-	n
20	Unk	PCB-81	5.00	1.66e+06	0.81	y	36:13	-	1.02	y
21	IS	13C-PCB-81	100.00	3.24e+07	0.78	y	36:12	-	1.40	y
22	Unk	PCB-77	5.00	1.66e+06	0.79	y	36:47	-	0.979	y
23	IS/RT	13C-PCB-77	100.00	3.39e+07	0.78	y	36:46	-	1.46	y
24	Unk	PCB-155	5.00	1.62e+06	1.21	y	34:17	-	1.01	y
25	IS	13C-PCB-155	100.00	3.20e+07	1.30	y	34:16	-	1.38	y
26	C/Up	13C-PCB-111	100.00	2.97e+07	1.60	y	36:21	-	1.28	y
27	RS	13C-PCB-101	100.00	2.32e+07	1.62	y	34:42	2.32e+05	-	n
28	Unk	PCB-123	5.00	1.53e+06	1.52	y	38:23	-	1.01	y
29	IS	13C-PCB-123	100.00	3.02e+07	1.57	y	38:23	-	1.32	y
30	Unk	PCB-118	5.00	1.63e+06	1.53	y	38:35	-	0.972	y
31	IS	13C-PCB-118	100.00	3.35e+07	1.58	y	38:33	-	1.47	y
32	Unk	PCB-114	5.00	1.58e+06	1.51	y	39:11	-	1.01	y
33	IS	13C-PCB-114	100.00	3.11e+07	1.58	y	39:11	-	1.36	y
34	Unk	PCB-105	5.00	1.50e+06	1.50	y	40:00	-	0.978	y
35	IS	13C-PCB-105	100.00	3.06e+07	1.60	y	39:59	-	1.34	y
36	Unk	PCB-126	5.00	1.42e+06	1.58	y	42:09	-	0.976	y
37	IS	13C-PCB-126	100.00	2.91e+07	1.62	y	42:07	-	1.28	y
38	Unk	PCB-167	5.00	1.44e+06	1.27	y	43:30	-	1.04	y
39	IS	13C-PCB-167	100.00	2.76e+07	1.28	y	43:28	-	1.21	y
40	Unk	PCB-156	5.00	1.48e+06	1.26	y	44:44	-	1.11	y
41	IS	13C-PCB-156	100.00	2.67e+07	1.30	y	44:42	-	1.17	y
42	Unk	PCB-157	5.00	1.44e+06	1.28	y	44:58	-	1.02	y
43	IS	13C-PCB-157	100.00	2.81e+07	1.31	y	44:57	-	1.23	y
44	Unk	PCB-169	5.00	1.39e+06	1.28	y	46:50	-	1.06	y
45	IS	13C-PCB-169	100.00	2.62e+07	1.28	y	46:49	-	1.15	y
46	Unk	PCB-188	5.00	1.41e+06	1.04	y	39:47	-	0.988	y
47	IS	13C-PCB-188	100.00	2.85e+07	1.05	y	39:46	-	1.25	y
48	Unk	PCB-189	5.00	1.12e+06	1.06	y	48:29	-	0.956	y
49	IS	13C-PCB-189	100.00	2.34e+07	1.06	y	48:27	-	1.02	y
50	Unk	PCB-202	5.00	1.16e+06	0.92	y	44:53	-	0.959	y
51	IS	13C-PCB-202	100.00	2.42e+07	0.90	y	44:52	-	1.06	y
52	C/Up	13C-PCB-178	100.00	1.88e+07	1.07	y	42:24	-	0.822	y
53	RS	13C-PCB-138	100.00	2.28e+07	1.29	y	41:36	2.28e+05	-	n

54	Unk	PCB-205	5.00	1.51e+06	0.89	y	50:07	-	1.02	y
55	IS	13C-PCB-205	100.00	2.95e+07	0.90	y	50:07	-	1.33	y
56	Unk	PCB-208	5.00	1.32e+06	1.38	y	49:12	-	0.974	y
57	IS	13C-PCB-208	100.00	2.72e+07	0.81	y	49:11	-	1.23	y
58	Unk	PCB-206	5.00	1.07e+06	1.38	y	51:21	-	1.00	y
59	IS	13C-PCB-206	100.00	2.13e+07	0.80	y	51:19	-	0.962	y
60	Unk	PCB-209	5.00	1.39e+06	1.22	y	52:31	-	1.07	y
61	IS	13C-PCB-209	100.00	2.60e+07	1.21	y	52:30	-	1.18	y
62	RS	13C-PCB-194	100.00	2.21e+07	0.92	y	49:52	2.21e+05	-	n

Analyst: [signature] Date: 4/3/19

Run #4 Filename 03APR19Z S: 4 Acquired: 3-APR-19 10:37:22 Cal: 1668FAL4-4-3-19
Client ID: ST040319Z3 Analyte: FAL ID: 1668 CS377 R181204D

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	2.86e+07	3.29 y	14:35	-	1.19	y
2	IS/RT	13C-PCB-1	100.00	4.81e+07	3.24 y	14:34	-	1.05	y
3	Unk	PCB-3	50.00	2.65e+07	3.25 y	17:02	-	1.19	y
4	IS/RT	13C-PCB-3	100.00	4.46e+07	3.33 y	17:00	-	0.975	y
5	Unk	PCB-4	50.00	1.68e+07	1.57 y	18:16	-	1.02	y
6	IS/RT	13C-PCB-4	100.00	3.29e+07	1.55 y	18:15	-	0.720	y
7	Unk	PCB-15	50.00	2.15e+07	1.54 y	23:48	-	1.02	y
8	IS/RT	13C-PCB-15	100.00	4.23e+07	1.61 y	23:47	-	0.925	y
9	Unk	PCB-19	50.00	1.38e+07	1.05 y	22:09	-	1.12	y
10	IS/RT	13C-PCB-19	100.00	2.46e+07	1.07 y	22:08	-	0.539	y
11	RS	13C-PCB-9	100.00	4.57e+07	1.63 y	19:55	4.57e+05	-	n
12	Unk	PCB-37	50.00	1.75e+07	1.02 y	30:27	-	1.06	y
13	IS	13C-PCB-37	100.00	3.31e+07	1.09 y	30:26	-	1.43	y
14	Unk	PCB-54	50.00	1.92e+07	0.80 y	25:41	-	1.19	y
15	IS/RT	13C-PCB-54	100.00	3.23e+07	0.81 y	25:40	-	1.40	y
16	Unk	PCB-104	50.00	1.39e+07	1.59 y	30:08	-	1.11	y
17	IS	13C-PCB-104	100.00	2.52e+07	1.59 y	30:06	-	1.09	y
18	C/Up	13C-PCB-28	100.00	3.95e+07	1.07 y	26:45	-	1.71	y
19	RS	13C-PCB-52	100.00	2.31e+07	0.80 y	29:01	2.31e+05	-	n
20	Unk	PCB-81	50.00	1.46e+07	0.80 y	36:13	-	1.07	y
21	IS	13C-PCB-81	100.00	2.73e+07	0.78 y	36:12	-	1.41	y
22	Unk	PCB-77	50.00	1.44e+07	0.79 y	36:47	-	1.02	y
23	IS/RT	13C-PCB-77	100.00	2.83e+07	0.77 y	36:46	-	1.46	y
24	Unk	PCB-155	50.00	1.41e+07	1.24 y	34:17	-	1.03	y
25	IS	13C-PCB-155	100.00	2.74e+07	1.25 y	34:16	-	1.41	y
26	C/Up	13C-PCB-111	100.00	2.52e+07	1.60 y	36:21	-	1.30	y
27	RS	13C-PCB-101	100.00	1.93e+07	1.61 y	34:42	1.93e+05	-	n
28	Unk	PCB-123	50.00	1.29e+07	1.54 y	38:25	-	1.03	y
29	IS	13C-PCB-123	100.00	2.49e+07	1.61 y	38:23	-	1.32	y
30	Unk	PCB-118	50.00	1.40e+07	1.56 y	38:35	-	1.01	y
31	IS	13C-PCB-118	100.00	2.79e+07	1.61 y	38:33	-	1.48	y
32	Unk	PCB-114	50.00	1.28e+07	1.54 y	39:11	-	0.985	y
33	IS	13C-PCB-114	100.00	2.60e+07	1.63 y	39:11	-	1.38	y
34	Unk	PCB-105	50.00	1.28e+07	1.55 y	40:00	-	0.998	y
35	IS	13C-PCB-105	100.00	2.56e+07	1.62 y	39:59	-	1.36	y
36	Unk	PCB-126	50.00	1.22e+07	1.58 y	42:09	-	1.02	y
37	IS	13C-PCB-126	100.00	2.39e+07	1.60 y	42:07	-	1.27	y
38	Unk	PCB-167	50.00	1.22e+07	1.27 y	43:29	-	1.08	y
39	IS	13C-PCB-167	100.00	2.24e+07	1.28 y	43:29	-	1.19	y
40	Unk	PCB-156	50.00	1.23e+07	1.26 y	44:44	-	1.09	y
41	IS	13C-PCB-156	100.00	2.25e+07	1.29 y	44:42	-	1.19	y
42	Unk	PCB-157	50.00	1.23e+07	1.27 y	44:58	-	1.06	y
43	IS	13C-PCB-157	100.00	2.32e+07	1.29 y	44:57	-	1.23	y
44	Unk	PCB-169	50.00	1.16e+07	1.26 y	46:50	-	1.09	y
45	IS	13C-PCB-169	100.00	2.14e+07	1.27 y	46:49	-	1.14	y
46	Unk	PCB-188	50.00	1.23e+07	1.05 y	39:47	-	1.05	y
47	IS	13C-PCB-188	100.00	2.35e+07	1.07 y	39:46	-	1.25	y
48	Unk	PCB-189	50.00	9.29e+06	1.04 y	48:29	-	0.985	y
49	IS	13C-PCB-189	100.00	1.88e+07	1.06 y	48:27	-	1.00	y
50	Unk	PCB-202	50.00	1.02e+07	0.89 y	44:53	-	1.03	y
51	IS	13C-PCB-202	100.00	1.98e+07	0.90 y	44:52	-	1.05	y
52	C/Up	13C-PCB-178	100.00	1.51e+07	1.04 y	42:24	-	0.803	y
53	RS	13C-PCB-138	100.00	1.88e+07	1.30 y	41:38	1.88e+05	-	n

54	Unk	PCB-205	50.00	1.25e+07	0.89	y	50:07	-	1.05	y
55	IS	13C-PCB-205	100.00	2.39e+07	0.90	y	50:07	-	1.37	y
56	Unk	PCB-208	50.00	1.22e+07	1.36	y	49:12	-	1.01	y
57	IS	13C-PCB-208	100.00	2.42e+07	0.81	y	49:11	-	1.38	y
58	Unk	PCB-206	50.00	8.90e+06	1.37	y	51:21	-	1.03	y
59	IS	13C-PCB-206	100.00	1.73e+07	0.80	y	51:19	-	0.990	y
60	Unk	PCB-209	50.00	1.19e+07	1.21	y	52:33	-	1.12	y
61	IS	13C-PCB-209	100.00	2.13e+07	1.22	y	52:31	-	1.21	y
62	RS	13C-PCB-194	100.00	1.75e+07	0.89	y	49:52	1.75e+05	-	n

Analyst: _____ Date: 4/3/19

Run #5 Filename 03APR19Z S: 5 Acquired: 3-APR-19 11:35:43 Cal: 1668FAL4-4-3-19
Client ID: ST040319Z4 Analyte: FAL ID: 1668 CS477 R181022B

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	400.00	2.25e+08	3.15 y	14:35	-	1.19	y
2	IS/RT	13C-PCB-1	100.00	4.71e+07	3.26 y	14:34	-	1.12	y
3	Unk	PCB-3	400.00	2.10e+08	3.22 y	17:01	-	1.18	y
4	IS/RT	13C-PCB-3	100.00	4.44e+07	3.32 y	16:60	-	1.06	y
5	Unk	PCB-4	400.00	1.28e+08	1.53 y	18:16	-	1.02	y
6	IS/RT	13C-PCB-4	100.00	3.12e+07	1.59 y	18:15	-	0.742	y
7	Unk	PCB-15	400.00	1.72e+08	1.53 y	23:47	-	1.03	y
8	IS/RT	13C-PCB-15	100.00	4.16e+07	1.62 y	23:47	-	0.989	y
9	Unk	PCB-19	400.00	1.06e+08	1.06 y	22:09	-	1.14	y
10	IS/RT	13C-PCB-19	100.00	2.31e+07	1.08 y	22:08	-	0.550	y
11	RS	13C-PCB-9	100.00	4.20e+07	1.59 y	19:55	4.20e+05	-	n
12	Unk	PCB-37	400.00	1.46e+08	1.03 y	30:27	-	1.06	y
13	IS	13C-PCB-37	100.00	3.43e+07	1.05 y	30:26	-	1.58	y
14	Unk	PCB-54	400.00	1.50e+08	0.79 y	25:41	-	1.20	y
15	IS/RT	13C-PCB-54	100.00	3.11e+07	0.80 y	25:40	-	1.43	y
16	Unk	PCB-104	400.00	1.11e+08	1.58 y	30:08	-	1.14	y
17	IS	13C-PCB-104	100.00	2.43e+07	1.59 y	30:06	-	1.12	y
18	C/Up	13C-PCB-28	100.00	3.62e+07	1.04 y	26:45	-	1.67	y
19	RS	13C-PCB-52	100.00	2.17e+07	0.80 y	29:01	2.17e+05	-	n
20	Unk	PCB-81	400.00	1.20e+08	0.80 y	36:12	-	1.11	y
21	IS	13C-PCB-81	100.00	2.71e+07	0.80 y	36:11	-	1.50	y
22	Unk	PCB-77	400.00	1.22e+08	0.80 y	36:46	-	1.07	y
23	IS/RT	13C-PCB-77	100.00	2.83e+07	0.80 y	36:45	-	1.57	y
24	Unk	PCB-155	400.00	1.12e+08	1.26 y	34:17	-	1.05	y
25	IS	13C-PCB-155	100.00	2.66e+07	1.29 y	34:16	-	1.47	y
26	C/Up	13C-PCB-111	100.00	2.39e+07	1.61 y	36:21	-	1.32	y
27	RS	13C-PCB-101	100.00	1.81e+07	1.60 y	34:42	1.81e+05	-	n
28	Unk	PCB-123	400.00	1.08e+08	1.53 y	38:23	-	1.06	y
29	IS	13C-PCB-123	100.00	2.55e+07	1.60 y	38:23	-	1.44	y
30	Unk	PCB-118	400.00	1.15e+08	1.51 y	38:35	-	1.05	y
31	IS	13C-PCB-118	100.00	2.74e+07	1.62 y	38:33	-	1.55	y
32	Unk	PCB-114	400.00	1.06e+08	1.51 y	39:11	-	1.03	y
33	IS	13C-PCB-114	100.00	2.56e+07	1.61 y	39:11	-	1.45	y
34	Unk	PCB-105	400.00	1.08e+08	1.55 y	40:00	-	1.04	y
35	IS	13C-PCB-105	100.00	2.59e+07	1.58 y	39:59	-	1.47	y
36	Unk	PCB-126	400.00	1.02e+08	1.54 y	42:07	-	1.03	y
37	IS	13C-PCB-126	100.00	2.47e+07	1.60 y	42:07	-	1.40	y
38	Unk	PCB-167	400.00	1.02e+08	1.26 y	43:30	-	1.10	y
39	IS	13C-PCB-167	100.00	2.33e+07	1.30 y	43:28	-	1.32	y
40	Unk	PCB-156	400.00	9.98e+07	1.25 y	44:44	-	1.11	y
41	IS	13C-PCB-156	100.00	2.25e+07	1.28 y	44:42	-	1.28	y
42	Unk	PCB-157	400.00	1.05e+08	1.26 y	44:58	-	1.06	y
43	IS	13C-PCB-157	100.00	2.47e+07	1.30 y	44:57	-	1.40	y
44	Unk	PCB-169	400.00	9.86e+07	1.28 y	46:49	-	1.09	y
45	IS	13C-PCB-169	100.00	2.26e+07	1.29 y	46:49	-	1.28	y
46	Unk	PCB-188	400.00	9.81e+07	1.05 y	39:47	-	1.09	y
47	IS	13C-PCB-188	100.00	2.24e+07	1.06 y	39:46	-	1.27	y
48	Unk	PCB-189	400.00	8.13e+07	1.06 y	48:29	-	1.10	y
49	IS	13C-PCB-189	100.00	1.85e+07	1.05 y	48:27	-	1.05	y
50	Unk	PCB-202	400.00	8.01e+07	0.89 y	44:53	-	1.06	y
51	IS	13C-PCB-202	100.00	1.90e+07	0.91 y	44:52	-	1.07	y
52	C/Up	13C-PCB-178	100.00	1.43e+07	1.06 y	42:24	-	0.809	y
53	RS	13C-PCB-138	100.00	1.76e+07	1.28 y	41:38	1.76e+05	-	n

54	Unk	PCB-205	400.00	1.05e+08	0.89 y	50:09	-	1.09	y	
55	IS	13C-PCB-205	100.00	2.41e+07	0.90 y	50:07	-	1.44	y	
56	Unk	PCB-208	400.00	9.24e+07	1.39 y	49:12	-	1.01	y	
57	IS	13C-PCB-208	100.00	2.30e+07	0.80 y	49:11	-	1.37	y	
58	Unk	PCB-206	400.00	7.27e+07	1.38 y	51:19	-	1.07	y	
59	IS	13C-PCB-206	100.00	1.70e+07	0.80 y	51:19	-	1.02	y	
60	Unk	PCB-209	400.00	9.60e+07	1.19 y	52:31	-	1.15	y	
61	IS	13C-PCB-209	100.00	2.09e+07	1.21 y	52:31	-	1.25	y	
62	RS	13C-PCB-194	100.00	1.67e+07	0.93 y	49:52	1.67e+05	-	n	

Analyst: [illegible] Date: 4/3/19

Run #6 Filename 03APR19Z S: 6 Acquired: 3-APR-19 12:34:04 Cal: 1668FAL4-4-3-19
Client ID: ST040319Z5 Analyte: FAL ID: 1668 CS577 R130426C

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	2000.00	1.47e+09	3.11	y	14:34	-	1.17	y
2	IS/RT	13C-PCB-1	100.00	6.29e+07	3.22	y	14:33	-	1.08	y
3	Unk	PCB-3	2000.00	1.45e+09	3.19	y	17:01	-	1.16	y
4	IS/RT	13C-PCB-3	100.00	6.26e+07	3.25	y	17:00	-	1.08	y
5	Unk	PCB-4	2000.00	9.27e+08	1.53	y	18:17	-	1.04	y
6	IS/RT	13C-PCB-4	100.00	4.46e+07	1.58	y	18:15	-	0.767	y
7	Unk	PCB-15	2000.00	1.44e+09	1.52	y	23:48	-	1.02	y
8	IS/RT	13C-PCB-15	100.00	7.06e+07	1.57	y	23:47	-	1.21	y
9	Unk	PCB-19	2000.00	7.89e+08	1.06	y	22:10	-	1.20	y
10	IS/RT	13C-PCB-19	100.00	3.30e+07	1.07	y	22:09	-	0.567	y
11	RS	13C-PCB-9	100.00	5.82e+07	1.60	y	19:56	5.82e+05	-	n
12	Unk	PCB-37	2000.00	1.35e+09	1.02	y	30:27	-	1.07	y
13	IS	13C-PCB-37	100.00	6.26e+07	1.06	y	30:26	-	1.85	y
14	Unk	PCB-54	2000.00	1.10e+09	0.79	y	25:43	-	1.15	y
15	IS/RT	13C-PCB-54	100.00	4.78e+07	0.81	y	25:41	-	1.42	y
16	Unk	PCB-104	2000.00	8.24e+08	1.56	y	30:08	-	1.08	y
17	IS	13C-PCB-104	100.00	3.82e+07	1.60	y	30:07	-	1.13	y
18	C/Up	13C-PCB-28	100.00	5.70e+07	1.05	y	26:46	-	1.69	y
19	RS	13C-PCB-52	100.00	3.38e+07	0.79	y	29:01	3.38e+05	-	n
20	Unk	PCB-81	2000.00	1.14e+09	0.79	y	36:13	-	1.07	y
21	IS	13C-PCB-81	100.00	5.33e+07	0.78	y	36:12	-	1.93	y
22	Unk	PCB-77	2000.00	1.14e+09	0.79	y	36:46	-	1.02	y
23	IS/RT	13C-PCB-77	100.00	5.61e+07	0.79	y	36:45	-	2.03	y
24	Unk	PCB-155	2000.00	8.77e+08	1.26	y	34:18	-	1.03	y
25	IS	13C-PCB-155	100.00	4.24e+07	1.27	y	34:17	-	1.54	y
26	C/Up	13C-PCB-111	100.00	3.71e+07	1.58	y	36:21	-	1.34	y
27	RS	13C-PCB-101	100.00	2.76e+07	1.60	y	34:42	2.76e+05	-	n
28	Unk	PCB-123	2000.00	9.48e+08	1.51	y	38:25	-	1.02	y
29	IS	13C-PCB-123	100.00	4.63e+07	1.58	y	38:23	-	1.62	y
30	Unk	PCB-118	2000.00	1.06e+09	1.52	y	38:35	-	1.03	y
31	IS	13C-PCB-118	100.00	5.17e+07	1.59	y	38:33	-	1.81	y
32	Unk	PCB-114	2000.00	1.03e+09	1.52	y	39:13	-	1.01	y
33	IS	13C-PCB-114	100.00	5.09e+07	1.57	y	39:11	-	1.78	y
34	Unk	PCB-105	2000.00	1.01e+09	1.50	y	40:00	-	0.996	y
35	IS	13C-PCB-105	100.00	5.06e+07	1.59	y	40:00	-	1.77	y
36	Unk	PCB-126	2000.00	9.65e+08	1.53	y	42:09	-	0.993	y
37	IS	13C-PCB-126	100.00	4.86e+07	1.59	y	42:07	-	1.70	y
38	Unk	PCB-167	2000.00	9.47e+08	1.26	y	43:30	-	1.06	y
39	IS	13C-PCB-167	100.00	4.47e+07	1.28	y	43:30	-	1.56	y
40	Unk	PCB-156	2000.00	9.14e+08	1.26	y	44:44	-	1.11	y
41	IS	13C-PCB-156	100.00	4.11e+07	1.27	y	44:44	-	1.44	y
42	Unk	PCB-157	2000.00	1.02e+09	1.25	y	44:58	-	1.05	y
43	IS	13C-PCB-157	100.00	4.84e+07	1.29	y	44:58	-	1.69	y
44	Unk	PCB-169	2000.00	9.20e+08	1.27	y	46:50	-	1.05	y
45	IS	13C-PCB-169	100.00	4.40e+07	1.29	y	46:49	-	1.54	y
46	Unk	PCB-188	2000.00	8.51e+08	1.05	y	39:47	-	1.05	y
47	IS	13C-PCB-188	100.00	4.04e+07	1.05	y	39:47	-	1.42	y
48	Unk	PCB-189	2000.00	7.24e+08	1.05	y	48:29	-	0.983	y
49	IS	13C-PCB-189	100.00	3.69e+07	1.07	y	48:29	-	1.29	y
50	Unk	PCB-202	2000.00	6.54e+08	0.88	y	44:55	-	0.945	y
51	IS	13C-PCB-202	100.00	3.46e+07	0.92	y	44:53	-	1.21	y
52	C/Up	13C-PCB-178	100.00	2.30e+07	1.07	y	42:24	-	0.805	y
53	RS	13C-PCB-138	100.00	2.86e+07	1.29	y	41:38	2.86e+05	-	n

54	Unk	PCB-205	2000.00	8.80e+08	0.88	y	50:09	-	0.935	y
55	IS	13C-PCB-205	100.00	4.71e+07	0.89	y	50:07	-	1.58	y
56	Unk	PCB-208	2000.00	8.02e+08	1.35	y	49:14	-	0.909	y
57	IS	13C-PCB-208	100.00	4.41e+07	0.81	y	49:12	-	1.48	y
58	Unk	PCB-206	2000.00	5.90e+08	1.35	y	51:21	-	0.948	y
59	IS	13C-PCB-206	100.00	3.11e+07	0.79	y	51:19	-	1.05	y
60	Unk	PCB-209	2000.00	7.55e+08	1.19	y	52:31	-	0.987	y
61	IS	13C-PCB-209	100.00	3.83e+07	1.20	y	52:31	-	1.29	y
62	RS	13C-PCB-194	100.00	2.98e+07	0.88	y	49:52	2.98e+05	-	n

Analyst: _____ Date: 4/3/19

Run No.1 Filename03APR19Z Sample:1 Acquired: 3-APR-19 07:41:54

FAL ID:1668 CS077 R170821A

	Name	RT	Response	Response	RA	
1	PCB-1	14:32	2.60e+05	8.17e+04	3.18	y
2	13C-PCB-1	14:31	1.03e+08	3.12e+07	3.30	y
3	PCB-3	16:58	2.60e+05	7.97e+04	3.26	y
4	13C-PCB-3	16:56	1.04e+08	3.18e+07	3.28	y
5	PCB-4	18:12	1.43e+05	1.08e+05	1.33	y
6	13C-PCB-4	18:11	6.76e+07	4.30e+07	1.57	y
7	PCB-15	23:45	1.79e+05	1.20e+05	1.50	y
8	13C-PCB-15	23:43	8.54e+07	5.43e+07	1.57	y
9	PCB-19	22:05	8.82e+04	7.99e+04	1.10	y
10	13C-PCB-19	22:04	3.94e+07	3.71e+07	1.06	y
11	13C-PCB-9	19:51	9.99e+07	6.20e+07	1.61	y
12	PCB-37	30:26	1.26e+05	1.16e+05	1.09	y
13	13C-PCB-37	30:25	5.96e+07	5.52e+07	1.08	y
14	PCB-54	25:39	9.92e+04	1.31e+05	0.76	y
15	13C-PCB-54	25:38	4.41e+07	5.44e+07	0.81	y
16	PCB-104	30:07	1.07e+05	6.85e+04	1.57	y
17	13C-PCB-104	30:06	5.20e+07	3.24e+07	1.60	y
18	13C-PCB-28	26:42	6.54e+07	6.19e+07	1.06	y
19	13C-PCB-52	29:00	3.37e+07	4.22e+07	0.80	y
20	PCB-81	36:12	8.84e+04	1.16e+05	0.76	y
21	13C-PCB-81	36:12	4.13e+07	5.26e+07	0.78	y
22	PCB-77	36:48	9.26e+04	1.14e+05	0.81	y
23	13C-PCB-77	36:45	4.30e+07	5.43e+07	0.79	y
24	PCB-155	34:17	1.02e+05	8.36e+04	1.23	y
25	13C-PCB-155	34:16	5.03e+07	3.93e+07	1.28	y
26	13C-PCB-111	36:21	5.12e+07	3.22e+07	1.59	y
27	13C-PCB-101	34:42	4.23e+07	2.64e+07	1.60	y
28	PCB-123	38:25	1.13e+05	7.83e+04	1.44	y
29	13C-PCB-123	38:24	5.35e+07	3.36e+07	1.59	y
30	PCB-118	38:35	1.20e+05	8.15e+04	1.48	y
31	13C-PCB-118	38:33	5.94e+07	3.67e+07	1.62	y
32	PCB-114	39:13	1.10e+05	8.07e+04	1.36	y
33	13C-PCB-114	39:11	5.50e+07	3.43e+07	1.61	y
34	PCB-105	40:01	1.21e+05	7.45e+04	1.62	y
35	13C-PCB-105	40:01	5.48e+07	3.42e+07	1.60	y
36	PCB-126	42:09	1.08e+05	7.85e+04	1.37	y
37	13C-PCB-126	42:07	5.20e+07	3.24e+07	1.61	y
38	PCB-167	43:30	9.51e+04	7.86e+04	1.21	y
39	13C-PCB-167	43:30	4.50e+07	3.51e+07	1.28	y
40	PCB-156	44:44	9.63e+04	7.33e+04	1.31	y
41	13C-PCB-156	44:44	4.31e+07	3.35e+07	1.29	y
42	PCB-157	44:59	1.05e+05	7.99e+04	1.31	y
43	13C-PCB-157	44:59	4.57e+07	3.54e+07	1.29	y
44	PCB-169	46:51	9.47e+04	6.78e+04	1.40	y
45	13C-PCB-169	46:49	4.34e+07	3.32e+07	1.31	y
46	PCB-188	39:47	8.39e+04	8.43e+04	1.00	y
47	13C-PCB-188	39:46	4.43e+07	4.16e+07	1.07	y
48	PCB-189	48:29	6.91e+04	6.46e+04	1.07	y
49	13C-PCB-189	48:29	3.41e+07	3.21e+07	1.06	y
50	PCB-202	44:55	6.66e+04	7.20e+04	0.93	y
51	13C-PCB-202	44:54	3.31e+07	3.64e+07	0.91	y
52	13C-PCB-178	42:24	2.69e+07	2.52e+07	1.07	y
53	13C-PCB-138	41:38	3.73e+07	2.91e+07	1.28	y

FAL ID:1668 CS077 R170821A

	Name	RT	Response	Response	RA	
54	PCB-205	50:09	7.92e+04	8.85e+04	0.90	y
55	13C-PCB-205	50:08	3.84e+07	4.29e+07	0.89	y
56	PCB-208	49:12	9.65e+04	6.80e+04	1.42	y
57	13C-PCB-208	49:12	3.71e+07	4.59e+07	0.81	y
58	PCB-206	51:21	7.14e+04	4.84e+04	1.48	y
59	13C-PCB-206	51:21	2.76e+07	3.50e+07	0.79	y
60	PCB-209	52:31	8.77e+04	7.31e+04	1.20	y
61	13C-PCB-209	52:31	3.72e+07	3.07e+07	1.21	y
62	13C-PCB-194	49:52	2.90e+07	3.20e+07	0.91	y

Analyst: _____ Date: 4/3/19

Run No.2 Filename03APR19Z Sample:2 Acquired: 3-APR-19 08:40:14

FAL ID:1668 CS177 R170213A

	Name	RT	Response	Response	RA	
1	PCB-1	14:36	9.02e+05	2.75e+05	3.28	y
2	13C-PCB-1	14:35	7.74e+07	2.38e+07	3.26	y
3	PCB-3	17:02	8.45e+05	2.55e+05	3.31	y
4	13C-PCB-3	17:01	7.18e+07	2.21e+07	3.25	y
5	PCB-4	18:16	4.42e+05	3.30e+05	1.34	y
6	13C-PCB-4	18:15	4.62e+07	2.87e+07	1.61	y
7	PCB-15	23:48	5.32e+05	3.70e+05	1.44	y
8	13C-PCB-15	23:47	5.45e+07	3.48e+07	1.57	y
9	PCB-19	22:09	2.77e+05	2.55e+05	1.08	y
10	13C-PCB-19	22:08	2.62e+07	2.45e+07	1.07	y
11	13C-PCB-9	19:56	6.20e+07	3.89e+07	1.59	y
12	PCB-37	30:27	3.59e+05	3.36e+05	1.07	y
13	13C-PCB-37	30:26	3.70e+07	3.47e+07	1.06	y
14	PCB-54	25:42	3.25e+05	4.00e+05	0.81	y
15	13C-PCB-54	25:40	2.93e+07	3.59e+07	0.82	y
16	PCB-104	30:08	3.23e+05	2.10e+05	1.54	y
17	13C-PCB-104	30:06	3.16e+07	1.99e+07	1.59	y
18	13C-PCB-28	26:45	4.26e+07	4.03e+07	1.06	y
19	13C-PCB-52	29:01	2.10e+07	2.63e+07	0.80	y
20	PCB-81	36:13	2.61e+05	3.19e+05	0.82	y
21	13C-PCB-81	36:11	2.48e+07	3.16e+07	0.79	y
22	PCB-77	36:46	2.46e+05	3.29e+05	0.75	y
23	13C-PCB-77	36:45	2.58e+07	3.31e+07	0.78	y
24	PCB-155	34:17	3.09e+05	2.46e+05	1.26	y
25	13C-PCB-155	34:16	3.17e+07	2.50e+07	1.26	y
26	13C-PCB-111	36:21	3.18e+07	1.97e+07	1.61	y
27	13C-PCB-101	34:42	2.48e+07	1.55e+07	1.60	y
28	PCB-123	38:25	3.20e+05	1.95e+05	1.64	y
29	13C-PCB-123	38:24	3.21e+07	2.03e+07	1.58	y
30	PCB-118	38:35	3.35e+05	2.27e+05	1.48	y
31	13C-PCB-118	38:33	3.44e+07	2.16e+07	1.59	y
32	PCB-114	39:11	3.13e+05	2.01e+05	1.55	y
33	13C-PCB-114	39:11	3.24e+07	2.05e+07	1.58	y
34	PCB-105	40:01	3.08e+05	2.10e+05	1.47	y
35	13C-PCB-105	39:59	3.23e+07	2.03e+07	1.59	y
36	PCB-126	42:09	3.02e+05	1.91e+05	1.58	y
37	13C-PCB-126	42:07	3.10e+07	1.95e+07	1.59	y
38	PCB-167	43:30	2.74e+05	2.13e+05	1.28	y
39	13C-PCB-167	43:28	2.64e+07	2.03e+07	1.30	y
40	PCB-156	44:44	2.68e+05	2.18e+05	1.23	y
41	13C-PCB-156	44:42	2.61e+07	1.99e+07	1.32	y
42	PCB-157	44:59	2.80e+05	2.19e+05	1.28	y
43	13C-PCB-157	44:57	2.71e+07	2.11e+07	1.29	y
44	PCB-169	46:49	2.62e+05	2.10e+05	1.25	y
45	13C-PCB-169	46:49	2.61e+07	2.02e+07	1.29	y
46	PCB-188	39:48	2.27e+05	2.25e+05	1.01	y
47	13C-PCB-188	39:46	2.46e+07	2.36e+07	1.04	y
48	PCB-189	48:29	1.94e+05	1.79e+05	1.08	y
49	13C-PCB-189	48:29	2.09e+07	1.95e+07	1.07	y
50	PCB-202	44:54	1.90e+05	2.06e+05	0.92	y
51	13C-PCB-202	44:52	2.00e+07	2.19e+07	0.91	y
52	13C-PCB-178	42:24	1.62e+07	1.53e+07	1.05	y
53	13C-PCB-138	41:38	2.18e+07	1.69e+07	1.29	y

FAL ID:1668 CS177 R170213A

	Name	RT	Response	Response	RA	
54	PCB-205	50:09	2.36e+05	2.66e+05	0.89	y
55	13C-PCB-205	50:08	2.36e+07	2.60e+07	0.91	y
56	PCB-208	49:12	2.73e+05	2.04e+05	1.34	y
57	13C-PCB-208	49:11	2.23e+07	2.74e+07	0.81	y
58	PCB-206	51:21	2.04e+05	1.48e+05	1.37	y
59	13C-PCB-206	51:20	1.64e+07	2.03e+07	0.81	y
60	PCB-209	52:32	2.55e+05	2.12e+05	1.21	y
61	13C-PCB-209	52:30	2.48e+07	2.06e+07	1.21	y
62	13C-PCB-194	49:52	1.75e+07	1.94e+07	0.90	y

Analyst: _____ Date: 4/3/19

Run No.3 Filename03APR19Z Sample:3 Acquired: 3-APR-19 09:38:36

FAL ID:1668 CS277 R170213B

	Name	RT	Response	Response	RA	
1	PCB-1	14:36	2.61e+06	8.15e+05	3.20	y
2	13C-PCB-1	14:35	4.44e+07	1.37e+07	3.23	y
3	PCB-3	17:02	2.19e+06	7.27e+05	3.01	y
4	13C-PCB-3	17:01	4.02e+07	1.23e+07	3.26	y
5	PCB-4	18:16	1.29e+06	9.28e+05	1.39	y
6	13C-PCB-4	18:15	2.65e+07	1.70e+07	1.56	y
7	PCB-15	23:48	1.51e+06	1.12e+06	1.35	y
8	13C-PCB-15	23:47	3.12e+07	1.96e+07	1.59	y
9	PCB-19	22:10	8.05e+05	7.55e+05	1.07	y
10	13C-PCB-19	22:08	1.53e+07	1.42e+07	1.08	y
11	13C-PCB-9	19:55	3.48e+07	2.19e+07	1.59	y
12	PCB-37	30:27	1.05e+06	9.98e+05	1.06	y
13	13C-PCB-37	30:26	2.12e+07	1.97e+07	1.08	y
14	PCB-54	25:41	9.63e+05	1.19e+06	0.81	y
15	13C-PCB-54	25:40	1.66e+07	2.07e+07	0.80	y
16	PCB-104	30:07	9.77e+05	6.35e+05	1.54	y
17	13C-PCB-104	30:06	1.83e+07	1.14e+07	1.61	y
18	13C-PCB-28	26:45	2.47e+07	2.31e+07	1.07	y
19	13C-PCB-52	29:01	1.21e+07	1.52e+07	0.80	y
20	PCB-81	36:13	7.43e+05	9.13e+05	0.81	y
21	13C-PCB-81	36:12	1.42e+07	1.82e+07	0.78	y
22	PCB-77	36:47	7.32e+05	9.27e+05	0.79	y
23	13C-PCB-77	36:46	1.49e+07	1.91e+07	0.78	y
24	PCB-155	34:17	8.84e+05	7.33e+05	1.21	y
25	13C-PCB-155	34:16	1.81e+07	1.39e+07	1.30	y
26	13C-PCB-111	36:21	1.83e+07	1.14e+07	1.60	y
27	13C-PCB-101	34:42	1.44e+07	8.84e+06	1.62	y
28	PCB-123	38:23	9.21e+05	6.07e+05	1.52	y
29	13C-PCB-123	38:23	1.85e+07	1.17e+07	1.57	y
30	PCB-118	38:35	9.84e+05	6.44e+05	1.53	y
31	13C-PCB-118	38:33	2.05e+07	1.30e+07	1.58	y
32	PCB-114	39:11	9.49e+05	6.27e+05	1.51	y
33	13C-PCB-114	39:11	1.90e+07	1.21e+07	1.58	y
34	PCB-105	40:00	8.96e+05	5.99e+05	1.50	y
35	13C-PCB-105	39:59	1.88e+07	1.18e+07	1.60	y
36	PCB-126	42:09	8.69e+05	5.50e+05	1.58	y
37	13C-PCB-126	42:07	1.80e+07	1.11e+07	1.62	y
38	PCB-167	43:30	8.08e+05	6.34e+05	1.27	y
39	13C-PCB-167	43:28	1.55e+07	1.21e+07	1.28	y
40	PCB-156	44:44	8.24e+05	6.53e+05	1.26	y
41	13C-PCB-156	44:42	1.51e+07	1.16e+07	1.30	y
42	PCB-157	44:58	8.08e+05	6.30e+05	1.28	y
43	13C-PCB-157	44:57	1.60e+07	1.22e+07	1.31	y
44	PCB-169	46:50	7.82e+05	6.09e+05	1.28	y
45	13C-PCB-169	46:49	1.47e+07	1.15e+07	1.28	y
46	PCB-188	39:47	7.17e+05	6.90e+05	1.04	y
47	13C-PCB-188	39:46	1.46e+07	1.39e+07	1.05	y
48	PCB-189	48:29	5.74e+05	5.42e+05	1.06	y
49	13C-PCB-189	48:27	1.20e+07	1.13e+07	1.06	y
50	PCB-202	44:53	5.56e+05	6.04e+05	0.92	y
51	13C-PCB-202	44:52	1.15e+07	1.27e+07	0.90	y
52	13C-PCB-178	42:24	9.69e+06	9.06e+06	1.07	y
53	13C-PCB-138	41:36	1.28e+07	9.97e+06	1.29	y

FAL ID:1668 CS277 R170213B

	Name	RT	Response	Response	RA	
54	PCB-205	50:07	7.09e+05	7.99e+05	0.89	y
55	13C-PCB-205	50:07	1.40e+07	1.55e+07	0.90	y
56	PCB-208	49:12	7.68e+05	5.56e+05	1.38	y
57	13C-PCB-208	49:11	1.22e+07	1.50e+07	0.81	y
58	PCB-206	51:21	6.19e+05	4.50e+05	1.38	y
59	13C-PCB-206	51:19	9.44e+06	1.18e+07	0.80	y
60	PCB-209	52:31	7.64e+05	6.26e+05	1.22	y
61	13C-PCB-209	52:30	1.42e+07	1.18e+07	1.21	y
62	13C-PCB-194	49:52	1.06e+07	1.15e+07	0.92	y

Analyst: Date: 4/3/19

Run No.4 Filename03APR19Z Sample:4 Acquired: 3-APR-19 10:37:22

FAL ID:1668 CS377 R181204D

	Name	RT	Response	Response	RA	
1	PCB-1	14:35	2.19e+07	6.67e+06	3.29	y
2	13C-PCB-1	14:34	3.67e+07	1.13e+07	3.24	y
3	PCB-3	17:02	2.03e+07	6.23e+06	3.25	y
4	13C-PCB-3	17:00	3.43e+07	1.03e+07	3.33	y
5	PCB-4	18:16	1.02e+07	6.53e+06	1.57	y
6	13C-PCB-4	18:15	2.00e+07	1.29e+07	1.55	y
7	PCB-15	23:48	1.30e+07	8.47e+06	1.54	y
8	13C-PCB-15	23:47	2.61e+07	1.62e+07	1.61	y
9	PCB-19	22:09	7.04e+06	6.72e+06	1.05	y
10	13C-PCB-19	22:08	1.27e+07	1.19e+07	1.07	y
11	13C-PCB-9	19:55	2.83e+07	1.74e+07	1.63	y
12	PCB-37	30:27	8.84e+06	8.71e+06	1.02	y
13	13C-PCB-37	30:26	1.72e+07	1.59e+07	1.09	y
14	PCB-54	25:41	8.53e+06	1.07e+07	0.80	y
15	13C-PCB-54	25:40	1.44e+07	1.78e+07	0.81	y
16	PCB-104	30:08	8.55e+06	5.37e+06	1.59	y
17	13C-PCB-104	30:06	1.55e+07	9.73e+06	1.59	y
18	13C-PCB-28	26:45	2.04e+07	1.91e+07	1.07	y
19	13C-PCB-52	29:01	1.03e+07	1.28e+07	0.80	y
20	PCB-81	36:13	6.47e+06	8.11e+06	0.80	y
21	13C-PCB-81	36:12	1.20e+07	1.53e+07	0.78	y
22	PCB-77	36:47	6.36e+06	8.04e+06	0.79	y
23	13C-PCB-77	36:46	1.23e+07	1.60e+07	0.77	y
24	PCB-155	34:17	7.82e+06	6.28e+06	1.24	y
25	13C-PCB-155	34:16	1.52e+07	1.22e+07	1.25	y
26	13C-PCB-111	36:21	1.55e+07	9.66e+06	1.60	y
27	13C-PCB-101	34:42	1.19e+07	7.40e+06	1.61	y
28	PCB-123	38:25	7.80e+06	5.06e+06	1.54	y
29	13C-PCB-123	38:23	1.54e+07	9.53e+06	1.61	y
30	PCB-118	38:35	8.54e+06	5.47e+06	1.56	y
31	13C-PCB-118	38:33	1.72e+07	1.07e+07	1.61	y
32	PCB-114	39:11	7.76e+06	5.04e+06	1.54	y
33	13C-PCB-114	39:11	1.61e+07	9.89e+06	1.63	y
34	PCB-105	40:00	7.76e+06	5.00e+06	1.55	y
35	13C-PCB-105	39:59	1.58e+07	9.77e+06	1.62	y
36	PCB-126	42:09	7.46e+06	4.72e+06	1.58	y
37	13C-PCB-126	42:07	1.47e+07	9.20e+06	1.60	y
38	PCB-167	43:29	6.80e+06	5.37e+06	1.27	y
39	13C-PCB-167	43:29	1.26e+07	9.85e+06	1.28	y
40	PCB-156	44:44	6.84e+06	5.45e+06	1.26	y
41	13C-PCB-156	44:42	1.26e+07	9.83e+06	1.29	y
42	PCB-157	44:58	6.89e+06	5.43e+06	1.27	y
43	13C-PCB-157	44:57	1.30e+07	1.01e+07	1.29	y
44	PCB-169	46:50	6.47e+06	5.15e+06	1.26	y
45	13C-PCB-169	46:49	1.19e+07	9.44e+06	1.27	y
46	PCB-188	39:47	6.28e+06	6.00e+06	1.05	y
47	13C-PCB-188	39:46	1.21e+07	1.14e+07	1.07	y
48	PCB-189	48:29	4.74e+06	4.55e+06	1.04	y
49	13C-PCB-189	48:27	9.71e+06	9.14e+06	1.06	y
50	PCB-202	44:53	4.79e+06	5.39e+06	0.89	y
51	13C-PCB-202	44:52	9.38e+06	1.04e+07	0.90	y
52	13C-PCB-178	42:24	7.73e+06	7.40e+06	1.04	y
53	13C-PCB-138	41:38	1.06e+07	8.19e+06	1.30	y

FAL ID:1668 CS377 R181204D

	Name	RT	Response	Response	RA	
54	PCB-205	50:07	5.90e+06	6.63e+06	0.89	y
55	13C-PCB-205	50:07	1.14e+07	1.26e+07	0.90	y
56	PCB-208	49:12	7.05e+06	5.19e+06	1.36	y
57	13C-PCB-208	49:11	1.08e+07	1.34e+07	0.81	y
58	PCB-206	51:21	5.14e+06	3.76e+06	1.37	y
59	13C-PCB-206	51:19	7.73e+06	9.60e+06	0.80	y
60	PCB-209	52:33	6.52e+06	5.39e+06	1.21	y
61	13C-PCB-209	52:31	1.17e+07	9.59e+06	1.22	y
62	13C-PCB-194	49:52	8.26e+06	9.25e+06	0.89	y

Analyst: B Date: 4/3/19

Run No.5 Filename03APR19Z Sample:5 Acquired: 3-APR-19 11:35:43

FAL ID:1668 CS477 R181022B

	Name	RT	Response	Response	RA	
1	PCB-1	14:35	1.71e+08	5.42e+07	3.15	y
2	13C-PCB-1	14:34	3.60e+07	1.10e+07	3.26	y
3	PCB-3	17:01	1.60e+08	4.97e+07	3.22	y
4	13C-PCB-3	16:60	3.41e+07	1.03e+07	3.32	y
5	PCB-4	18:16	7.72e+07	5.05e+07	1.53	y
6	13C-PCB-4	18:15	1.91e+07	1.21e+07	1.59	y
7	PCB-15	23:47	1.04e+08	6.80e+07	1.53	y
8	13C-PCB-15	23:47	2.57e+07	1.59e+07	1.62	y
9	PCB-19	22:09	5.44e+07	5.13e+07	1.06	y
10	13C-PCB-19	22:08	1.20e+07	1.11e+07	1.08	y
11	13C-PCB-9	19:55	2.58e+07	1.62e+07	1.59	y
12	PCB-37	30:27	7.39e+07	7.17e+07	1.03	y
13	13C-PCB-37	30:26	1.76e+07	1.67e+07	1.05	y
14	PCB-54	25:41	6.62e+07	8.34e+07	0.79	y
15	13C-PCB-54	25:40	1.38e+07	1.72e+07	0.80	y
16	PCB-104	30:08	6.78e+07	4.28e+07	1.58	y
17	13C-PCB-104	30:06	1.49e+07	9.35e+06	1.59	y
18	13C-PCB-28	26:45	1.85e+07	1.77e+07	1.04	y
19	13C-PCB-52	29:01	9.65e+06	1.20e+07	0.80	y
20	PCB-81	36:12	5.34e+07	6.65e+07	0.80	y
21	13C-PCB-81	36:11	1.21e+07	1.50e+07	0.80	y
22	PCB-77	36:46	5.41e+07	6.76e+07	0.80	y
23	13C-PCB-77	36:45	1.26e+07	1.58e+07	0.80	y
24	PCB-155	34:17	6.23e+07	4.95e+07	1.26	y
25	13C-PCB-155	34:16	1.50e+07	1.16e+07	1.29	y
26	13C-PCB-111	36:21	1.47e+07	9.14e+06	1.61	y
27	13C-PCB-101	34:42	1.11e+07	6.95e+06	1.60	y
28	PCB-123	38:23	6.51e+07	4.26e+07	1.53	y
29	13C-PCB-123	38:23	1.57e+07	9.81e+06	1.60	y
30	PCB-118	38:35	6.94e+07	4.59e+07	1.51	y
31	13C-PCB-118	38:33	1.69e+07	1.05e+07	1.62	y
32	PCB-114	39:11	6.37e+07	4.21e+07	1.51	y
33	13C-PCB-114	39:11	1.58e+07	9.79e+06	1.61	y
34	PCB-105	40:00	6.53e+07	4.23e+07	1.55	y
35	13C-PCB-105	39:59	1.59e+07	1.00e+07	1.58	y
36	PCB-126	42:07	6.18e+07	4.02e+07	1.54	y
37	13C-PCB-126	42:07	1.52e+07	9.48e+06	1.60	y
38	PCB-167	43:30	5.70e+07	4.52e+07	1.26	y
39	13C-PCB-167	43:28	1.32e+07	1.01e+07	1.30	y
40	PCB-156	44:44	5.54e+07	4.44e+07	1.25	y
41	13C-PCB-156	44:42	1.26e+07	9.88e+06	1.28	y
42	PCB-157	44:58	5.84e+07	4.64e+07	1.26	y
43	13C-PCB-157	44:57	1.40e+07	1.07e+07	1.30	y
44	PCB-169	46:49	5.53e+07	4.33e+07	1.28	y
45	13C-PCB-169	46:49	1.27e+07	9.88e+06	1.29	y
46	PCB-188	39:47	5.03e+07	4.77e+07	1.05	y
47	13C-PCB-188	39:46	1.15e+07	1.09e+07	1.06	y
48	PCB-189	48:29	4.19e+07	3.94e+07	1.06	y
49	13C-PCB-189	48:27	9.50e+06	9.04e+06	1.05	y
50	PCB-202	44:53	3.77e+07	4.23e+07	0.89	y
51	13C-PCB-202	44:52	9.03e+06	9.92e+06	0.91	y
52	13C-PCB-178	42:24	7.33e+06	6.94e+06	1.06	y
53	13C-PCB-138	41:38	9.89e+06	7.75e+06	1.28	y

FAL ID:1668 CS477 R181022B

	Name	RT	Response	Response	RA	
54	PCB-205	50:09	4.93e+07	5.57e+07	0.89	y
55	13C-PCB-205	50:07	1.14e+07	1.27e+07	0.90	y
56	PCB-208	49:12	5.37e+07	3.87e+07	1.39	y
57	13C-PCB-208	49:11	1.02e+07	1.28e+07	0.80	y
58	PCB-206	51:19	4.21e+07	3.06e+07	1.38	y
59	13C-PCB-206	51:19	7.57e+06	9.46e+06	0.80	y
60	PCB-209	52:31	5.23e+07	4.38e+07	1.19	y
61	13C-PCB-209	52:31	1.15e+07	9.46e+06	1.21	y
62	13C-PCB-194	49:52	8.05e+06	8.66e+06	0.93	y

Analyst: [illegible] Date: 4/3/19

Run No.6 Filename03APR19Z Sample:6 Acquired: 3-APR-19 12:34:04

FAL ID:1668 CS577 R130426C

	Name	RT	Response	Response	RA	
1	PCB-1	14:34	1.11e+09	3.57e+08	3.11	y
2	13C-PCB-1	14:33	4.80e+07	1.49e+07	3.22	y
3	PCB-3	17:01	1.11e+09	3.46e+08	3.19	y
4	13C-PCB-3	17:00	4.78e+07	1.47e+07	3.25	y
5	PCB-4	18:17	5.61e+08	3.66e+08	1.53	y
6	13C-PCB-4	18:15	2.73e+07	1.73e+07	1.58	y
7	PCB-15	23:48	8.71e+08	5.72e+08	1.52	y
8	13C-PCB-15	23:47	4.32e+07	2.74e+07	1.57	y
9	PCB-19	22:10	4.06e+08	3.82e+08	1.06	y
10	13C-PCB-19	22:09	1.70e+07	1.60e+07	1.07	y
11	13C-PCB-9	19:56	3.58e+07	2.24e+07	1.60	y
12	PCB-37	30:27	6.81e+08	6.64e+08	1.02	y
13	13C-PCB-37	30:26	3.22e+07	3.05e+07	1.06	y
14	PCB-54	25:43	4.85e+08	6.17e+08	0.79	y
15	13C-PCB-54	25:41	2.14e+07	2.65e+07	0.81	y
16	PCB-104	30:08	5.03e+08	3.21e+08	1.56	y
17	13C-PCB-104	30:07	2.35e+07	1.47e+07	1.60	y
18	13C-PCB-28	26:46	2.92e+07	2.77e+07	1.05	y
19	13C-PCB-52	29:01	1.49e+07	1.89e+07	0.79	y
20	PCB-81	36:13	5.05e+08	6.37e+08	0.79	y
21	13C-PCB-81	36:12	2.34e+07	2.99e+07	0.78	y
22	PCB-77	36:46	5.06e+08	6.37e+08	0.79	y
23	13C-PCB-77	36:45	2.47e+07	3.14e+07	0.79	y
24	PCB-155	34:18	4.88e+08	3.89e+08	1.26	y
25	13C-PCB-155	34:17	2.37e+07	1.87e+07	1.27	y
26	13C-PCB-111	36:21	2.27e+07	1.44e+07	1.58	y
27	13C-PCB-101	34:42	1.70e+07	1.06e+07	1.60	y
28	PCB-123	38:25	5.70e+08	3.78e+08	1.51	y
29	13C-PCB-123	38:23	2.84e+07	1.79e+07	1.58	y
30	PCB-118	38:35	6.40e+08	4.21e+08	1.52	y
31	13C-PCB-118	38:33	3.18e+07	2.00e+07	1.59	y
32	PCB-114	39:13	6.22e+08	4.10e+08	1.52	y
33	13C-PCB-114	39:11	3.11e+07	1.98e+07	1.57	y
34	PCB-105	40:00	6.06e+08	4.03e+08	1.50	y
35	13C-PCB-105	40:00	3.11e+07	1.95e+07	1.59	y
36	PCB-126	42:09	5.84e+08	3.81e+08	1.53	y
37	13C-PCB-126	42:07	2.98e+07	1.88e+07	1.59	y
38	PCB-167	43:30	5.27e+08	4.20e+08	1.26	y
39	13C-PCB-167	43:30	2.51e+07	1.96e+07	1.28	y
40	PCB-156	44:44	5.10e+08	4.04e+08	1.26	y
41	13C-PCB-156	44:44	2.30e+07	1.81e+07	1.27	y
42	PCB-157	44:58	5.65e+08	4.50e+08	1.25	y
43	13C-PCB-157	44:58	2.72e+07	2.12e+07	1.29	y
44	PCB-169	46:50	5.15e+08	4.05e+08	1.27	y
45	13C-PCB-169	46:49	2.48e+07	1.92e+07	1.29	y
46	PCB-188	39:47	4.36e+08	4.16e+08	1.05	y
47	13C-PCB-188	39:47	2.07e+07	1.97e+07	1.05	y
48	PCB-189	48:29	3.72e+08	3.53e+08	1.05	y
49	13C-PCB-189	48:29	1.90e+07	1.78e+07	1.07	y
50	PCB-202	44:55	3.05e+08	3.49e+08	0.88	y
51	13C-PCB-202	44:53	1.66e+07	1.80e+07	0.92	y
52	13C-PCB-178	42:24	1.19e+07	1.11e+07	1.07	y
53	13C-PCB-138	41:38	1.61e+07	1.25e+07	1.29	y

FAL ID:1668 CS577 R130426C

	Name	RT	Response	Response	RA	
54	PCB-205	50:09	4.13e+08	4.67e+08	0.88	y
55	13C-PCB-205	50:07	2.22e+07	2.49e+07	0.89	y
56	PCB-208	49:14	4.60e+08	3.41e+08	1.35	y
57	13C-PCB-208	49:12	1.97e+07	2.44e+07	0.81	y
58	PCB-206	51:21	3.39e+08	2.51e+08	1.35	y
59	13C-PCB-206	51:19	1.38e+07	1.74e+07	0.79	y
60	PCB-209	52:31	4.11e+08	3.44e+08	1.19	y
61	13C-PCB-209	52:31	2.09e+07	1.74e+07	1.20	y
62	13C-PCB-194	49:52	1.40e+07	1.58e+07	0.88	y

Analyst: Date: 4/3/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 03APR19Z Sam:4 Analysis Date: 3-APR-19 10:37:22

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.29	2.66-3.60	y	49.8	37.5 - 62.5
PCB-3	M/M+2	3.25	2.66-3.60	y	50.5	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	48.7	37.5 - 62.5
PCB-15	M/M+2	1.54	1.33-1.79	y	49.2	37.5 - 62.5
PCB-19	M/M+2	1.05	0.88-1.20	y	50.3	37.5 - 62.5
PCB-37	M/M+2	1.02	0.88-1.20	y	51.1	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	51.2	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	49.9	37.5 - 62.5
PCB-81	M/M+2	0.80	0.65-0.89	y	50.2	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	51.1	37.5 - 62.5
PCB-105	M+2/M+4	1.55	1.32-1.78	y	49.2	37.5 - 62.5
PCB-114	M+2/M+4	1.54	1.32-1.78	y	48.6	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	49.4	37.5 - 62.5
PCB-123	M+2/M+4	1.54	1.32-1.78	y	49.9	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	50.1	37.5 - 62.5
PCB-155	M+2/M+4	1.24	1.05-1.43	y	50.3	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	49.8	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	50.1	37.5 - 62.5
PCB-167	M+2/M+4	1.27	1.05-1.43	y	50.7	37.5 - 62.5
PCB-169	M+2/M+4	1.26	1.05-1.43	y	51.2	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	51.5	37.5 - 62.5
PCB-189	M+2/M+4	1.04	0.89-1.21	y	49.7	37.5 - 62.5
PCB-202	M+2/M+4	0.89	0.76-1.02	y	52.0	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	51.1	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	51.6	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	51.9	37.5 - 62.5
PCB-209	M+4/M+6	1.21	0.99-1.33	y	51.4	37.5 - 62.5

Analyst: _____ Date: 4/3/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 03APR19Z Sam:4 Analysis Date: 3-APR-19 10:37:22

	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	3.24	2.66-3.60	y	103	50.0 - 145
13C-PCB-3	M/M+2	3.33	2.66-3.60	y	101	50.0 - 145
13C-PCB-4	M/M+2	1.55	1.33-1.79	y	97.7	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	96.2	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	103	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	91.4	50.0 - 145
13C-PCB-54	M/M+2	0.81	0.65-0.89	y	101	50.0 - 145
13C-PCB-77	M/M+2	0.77	0.65-0.89	y	93.3	50.0 - 145
13C-PCB-81	M/M+2	0.78	0.65-0.89	y	94.0	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	98.6	50.0 - 145
13C-PCB-105	M+2/M+4	1.62	1.32-1.78	y	94.3	50.0 - 145
13C-PCB-114	M+2/M+4	1.63	1.32-1.78	y	95.3	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	96.5	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	94.7	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	92.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.25	1.05-1.43	y	99.7	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	96.4	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	92.0	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	92.8	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	91.4	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	96.9	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	93.7	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	96.5	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	97.6	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	98.4	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	101	50.0 - 145
13C-PCB-209	M+4/M+6	1.22	0.99-1.33	y	100	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	100	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	101	75.0 - 125
13C-PCB-178	M+2/M+4	1.04	0.89-1.21	y	99.6	75.0 - 125

Analyst: [signature] Date: 4/3/19

FAL ID: ST040319Z3 Filename: 03APR19Z Sam:4 Acquired: 3-APR-19 10:37:22 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS377 R181204D 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	2.86e+07	3.29 y	14:35	1.19	49.8		2.50	-	-	*	-
13C-PCB-1	4.81e+07	3.24 y	14:34	1.02	103		2.50				103
PCB-3	2.65e+07	3.25 y	17:02	1.18	50.5		2.50	-	-	*	-
13C-PCB-3	4.46e+07	3.33 y	17:00	0.97	101		2.50				101
PCB-4	1.68e+07	1.57 y	18:16	1.04	48.7		2.50	-	-	*	-
13C-PCB-4	3.29e+07	1.55 y	18:15	0.74	97.7		2.50				97.7
PCB-15	2.15e+07	1.54 y	23:48	1.03	49.2		2.50	-	-	*	-
13C-PCB-15	4.23e+07	1.61 y	23:47	0.96	96.2		2.50				96.2
PCB-19	1.38e+07	1.05 y	22:09	1.11	50.3		2.50	-	-	*	-
13C-PCB-19	2.46e+07	1.07 y	22:08	0.53	103		2.50				103
13C-PCB-9	4.57e+07	1.63 y	19:55	-	58.9		2.50				
PCB-37	1.75e+07	1.02 y	30:27	1.04	51.1		2.50	-	-	*	-
13C-PCB-37	3.31e+07	1.09 y	30:26	1.57	91.4		2.50				91.4
PCB-54	1.92e+07	0.80 y	25:41	1.16	51.2		2.50	-	-	*	-
13C-PCB-54	3.23e+07	0.81 y	25:40	1.38	101		2.50				101
PCB-104	1.39e+07	1.59 y	30:08	1.08	51.1		2.50	-	-	*	-
13C-PCB-104	2.52e+07	1.59 y	30:06	1.11	98.6		2.50				98.6
13C-PCB-28	3.95e+07	1.07 y	26:45	1.71	100		2.50				100
13C-PCB-52	2.31e+07	0.80 y	29:01	-	60.6		2.50				
PCB-81	1.46e+07	0.80 y	36:13	1.06	50.2		2.50	-	-	*	-
13C-PCB-81	2.73e+07	0.78 y	36:12	1.50	94.0		2.50				94.0
PCB-77	1.44e+07	0.79 y	36:47	1.02	49.9		2.50	-	-	*	-
13C-PCB-77	2.83e+07	0.77 y	36:46	1.57	93.3		2.50				93.3
PCB-155	1.41e+07	1.24 y	34:17	1.02	50.3		2.50	-	-	*	-
13C-PCB-155	2.74e+07	1.25 y	34:16	1.42	99.7		2.50				99.7
13C-PCB-111	2.52e+07	1.60 y	36:21	1.29	101		2.50				101
13C-PCB-101	1.93e+07	1.61 y	34:42	-	58.8		2.50				
PCB-123	1.29e+07	1.54 y	38:25	1.03	49.9		2.50	-	-	*	-
13C-PCB-123	2.49e+07	1.61 y	38:23	1.40	94.7		2.50				94.7
PCB-118	1.40e+07	1.56 y	38:35	1.02	49.4		2.50	-	-	*	-
13C-PCB-118	2.79e+07	1.61 y	38:33	1.53	96.5		2.50				96.5
PCB-114	1.28e+07	1.54 y	39:11	1.01	48.6		2.50	-	-	*	-
13C-PCB-114	2.60e+07	1.63 y	39:11	1.45	95.3		2.50				95.3
PCB-105	1.28e+07	1.55 y	40:00	1.02	49.2		2.50	-	-	*	-
13C-PCB-105	2.56e+07	1.62 y	39:59	1.44	94.3		2.50				94.3
PCB-126	1.22e+07	1.58 y	42:09	1.02	50.1		2.50	-	-	*	-
13C-PCB-126	2.39e+07	1.60 y	42:07	1.37	92.7		2.50				92.7
PCB-167	1.22e+07	1.27 y	43:29	1.07	50.7		2.50	-	-	*	-
13C-PCB-167	2.24e+07	1.28 y	43:29	1.28	92.8		2.50				92.8
PCB-156	1.23e+07	1.26 y	44:44	1.10	49.8		2.50	-	-	*	-
13C-PCB-156	2.25e+07	1.29 y	44:42	1.24	96.4		2.50				96.4
PCB-157	1.23e+07	1.27 y	44:58	1.06	50.1		2.50	-	-	*	-
13C-PCB-157	2.32e+07	1.29 y	44:57	1.34	92.0		2.50				92.0
PCB-169	1.16e+07	1.26 y	46:50	1.06	51.2		2.50	-	-	*	-
13C-PCB-169	2.14e+07	1.27 y	46:49	1.24	91.4		2.50				91.4
PCB-188	1.23e+07	1.05 y	39:47	1.02	51.5		2.50	-	-	*	-
13C-PCB-188	2.35e+07	1.07 y	39:46	1.29	96.9		2.50				96.9
PCB-189	9.29e+06	1.04 y	48:29	0.99	49.7		2.50	-	-	*	-
13C-PCB-189	1.88e+07	1.06 y	48:27	1.07	93.7		2.50				93.7
PCB-202	1.02e+07	0.89 y	44:53	0.99	52.0		2.50	-	-	*	-
13C-PCB-202	1.98e+07	0.90 y	44:52	1.09	96.5		2.50				96.5
13C-PCB-178	1.51e+07	1.04 y	42:24	0.81	99.6		2.50				99.6
13C-PCB-138	1.88e+07	1.30 y	41:38	-	58.6		2.50				

FAL ID: ST040319Z3 Filename: 03APR19Z Sam:4 Acquired: 3-APR-19 10:37:22 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS377 R181204D ConCal: NA EndCal: NA
Results: GC Column: DB1MS Amount: 1.000

PCB-205	1.25e+07	0.89	y	50:07	1.02	51.1	2.50	-	-	*	-
13C-PCB-205	2.39e+07	0.90	y	50:07	1.40	97.6	2.50				97.6
PCB-208	1.22e+07	1.36	y	49:12	0.98	51.9	2.50	-	-	*	-
13C-PCB-208	2.42e+07	0.81	y	49:11	1.36	101	2.50				101
PCB-206	8.90e+06	1.37	y	51:21	0.99	51.6	2.50	-	-	*	-
13C-PCB-206	1.73e+07	0.80	y	51:19	1.01	98.4	2.50				98.4
PCB-209	1.19e+07	1.21	y	52:33	1.09	51.4	2.50	-	-	*	-
13C-PCB-209	2.13e+07	1.22	y	52:31	1.21	100	2.50				100
13C-PCB-194	1.75e+07	0.89	y	49:52	-	57.1	2.50				

Analyst: Date: 4/3/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:03APR19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

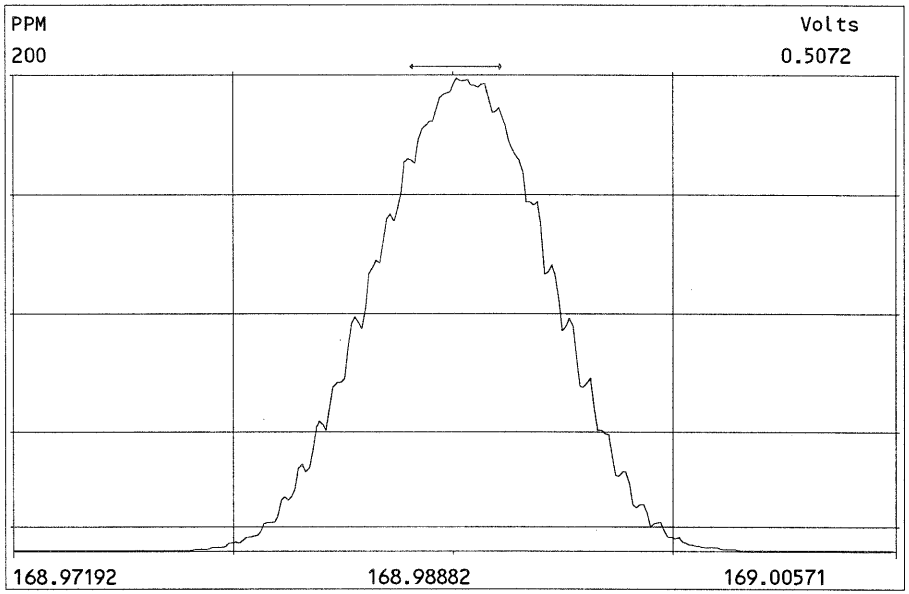
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
03APR19Z	1	ST040319Z0	1668 CS077 R170821A	3-APR-19 07:41:54	NA	NA	BS
03APR19Z	2	ST040319Z1	1668 CS177 R170213A	3-APR-19 08:40:14	NA	NA	BS
03APR19Z	3	ST040319Z2	1668 CS277 R170213B	3-APR-19 09:38:36	NA	NA	BS
03APR19Z	4	ST040319Z3	1668 CS377 R181204D	3-APR-19 10:37:22	NA	NA	BS
03APR19Z	5	ST040319Z4	1668 CS477 R181022B	3-APR-19 11:35:43	NA	NA	BS
03APR19Z	6	ST040319Z5	1668 CS577 R130426C	3-APR-19 12:34:04	NA	NA	BS
03APR19Z	7	SB040319Z1	Solvent Blank	3-APR-19 13:32:26	NA	NA	BS
03APR19Z	8	SS040319Z1	Daily CS20977 170620B	3-APR-19 14:30:48	ST040319Z3	ST040319Z6	BS
03APR19Z	9	SS040319Z2	2nd Source 170815A	3-APR-19 15:29:09	ST040319Z3	ST040319Z6	BS
03APR19Z	10	SB040319Z2	Solvent Blank	3-APR-19 16:27:30	NA	NA	BS
03APR19Z	11	QC040319Z1	KQC	3-APR-19 17:25:53	NA	NA	BS
03APR19Z	12	QC040319Z2	BQC	3-APR-19 18:24:14	NA	NA	BS
03APR19Z	13	SB040319Z3	Solvent Blank	3-APR-19 19:22:36	NA	NA	BS
03APR19Z	14	ST040619Z6	1668 CS378 R181204D	3-APR-19 20:20:56	ST040319Z3	ST040319Z6	BS

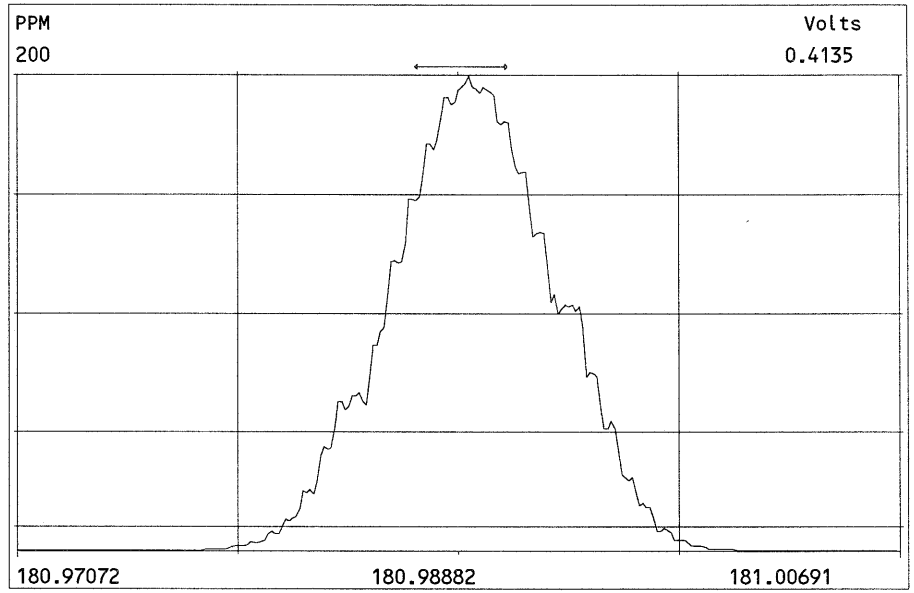
4/4/19

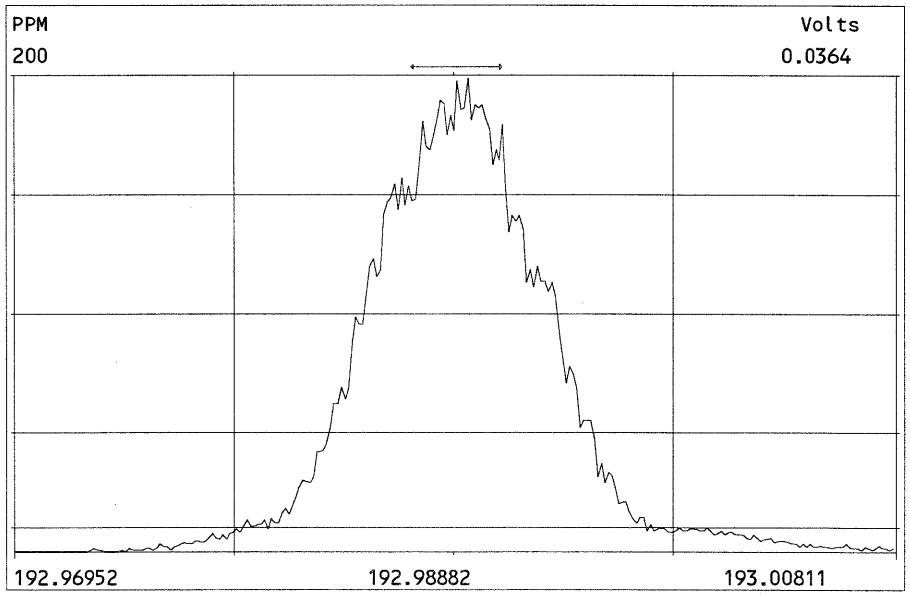
Data Backed Up:_____

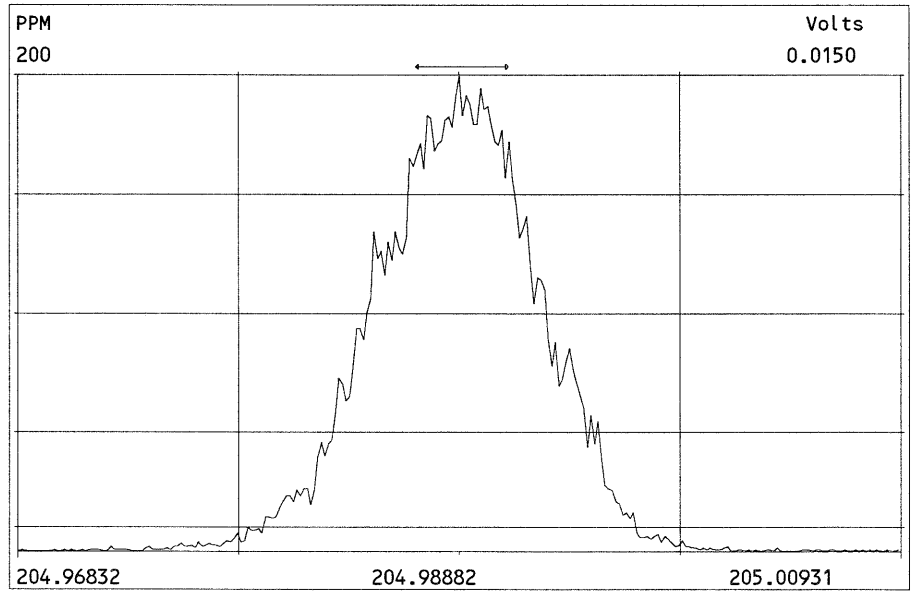
Date:_____

Peak Locate Examination: 3-APR-2019:07:38 File:03APR19Z
Experiment:1668PCB Function:1 Reference:PFK 77

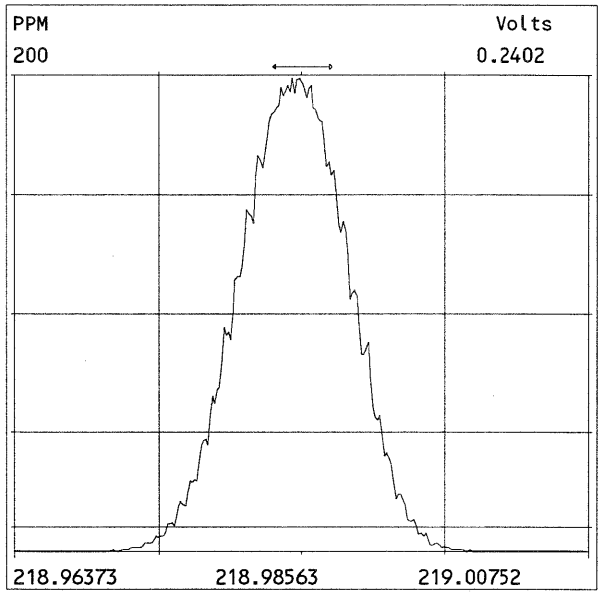


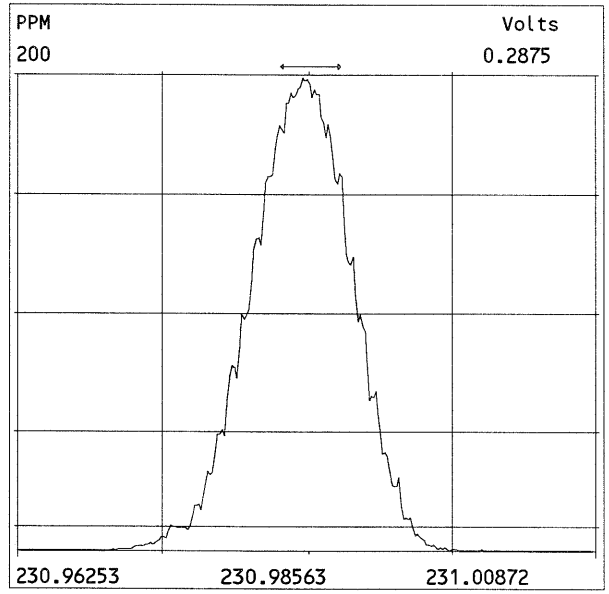


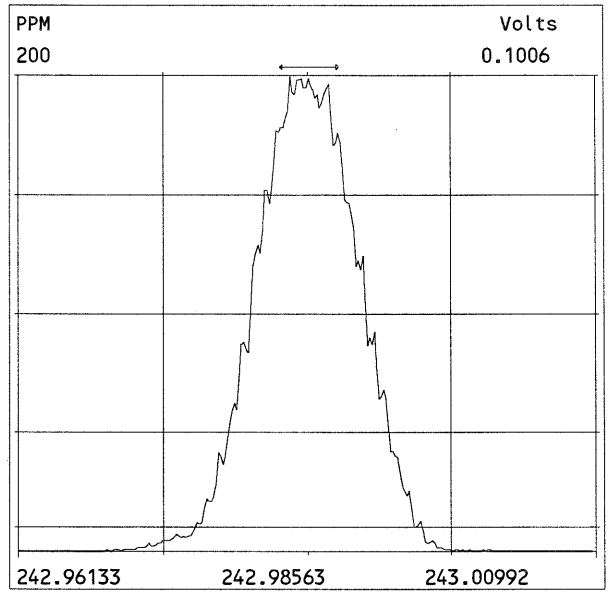


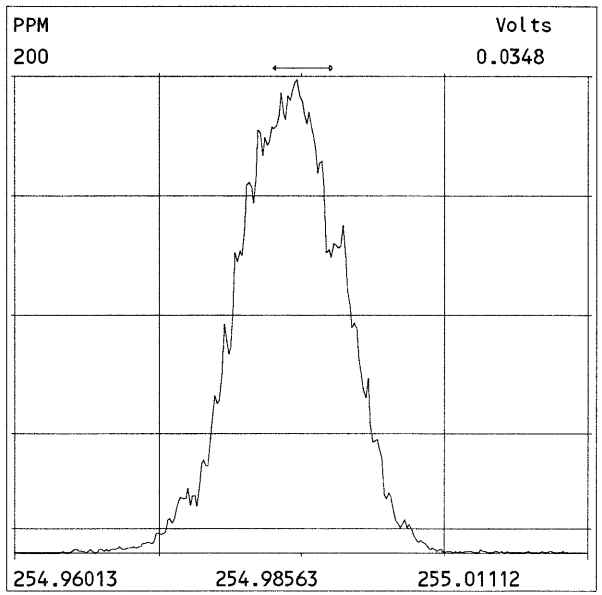


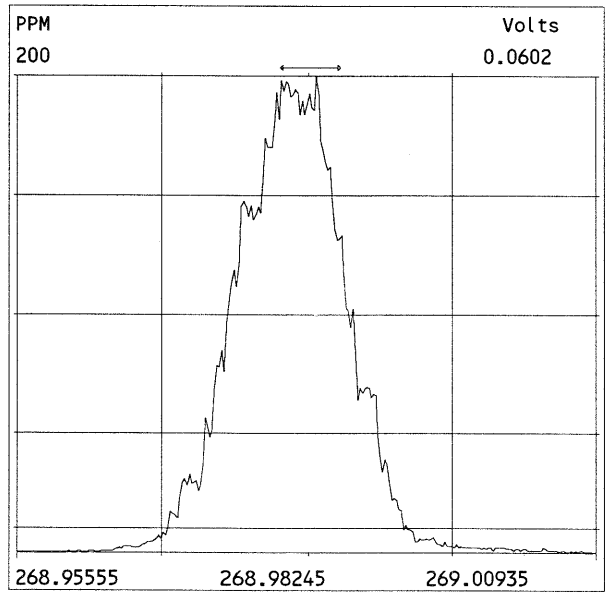
Peak Locate Examination: 3-APR-2019:07:39 File:03APR19Z
Experiment:1668PCB Function:2 Reference:PFK77

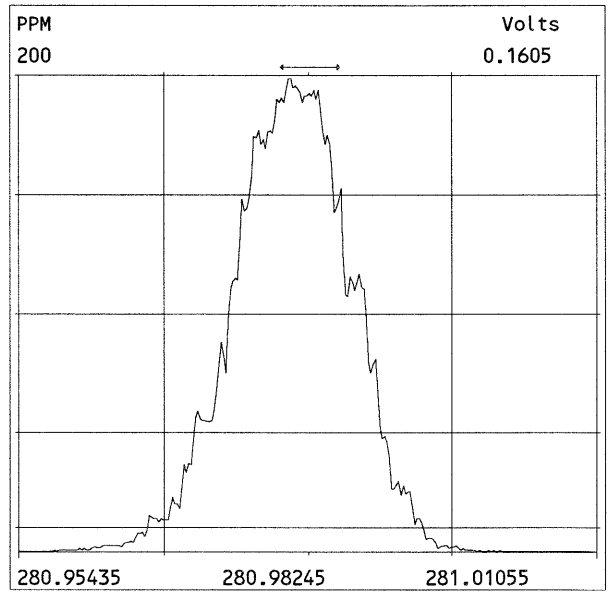




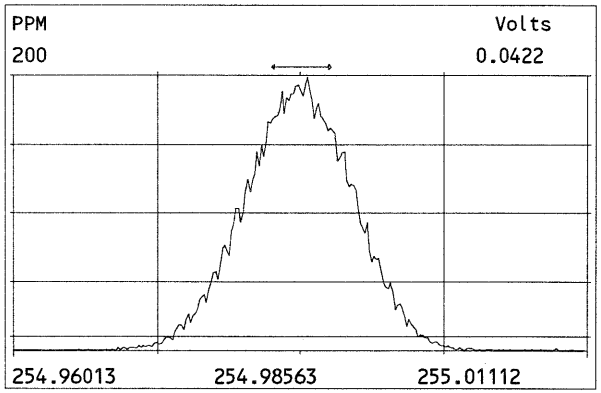


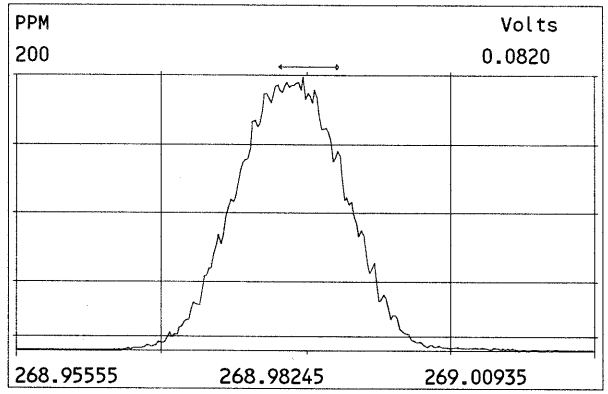


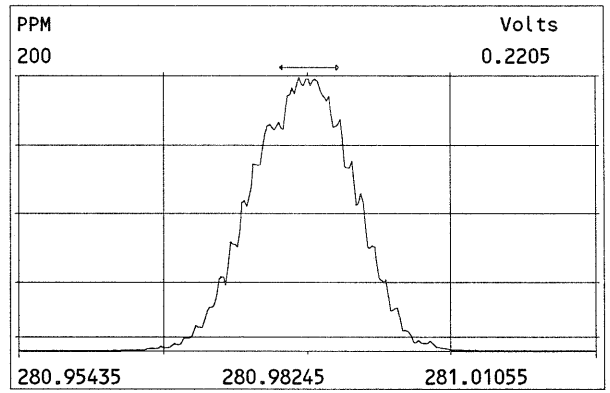


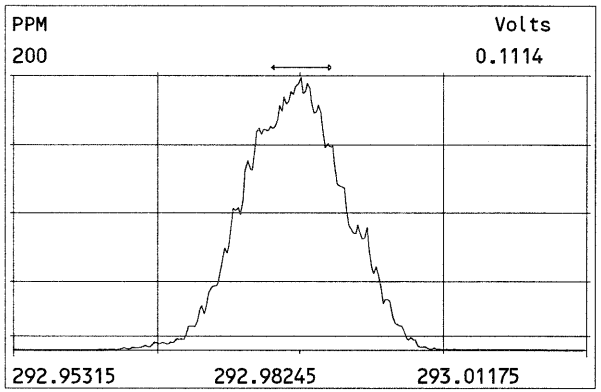


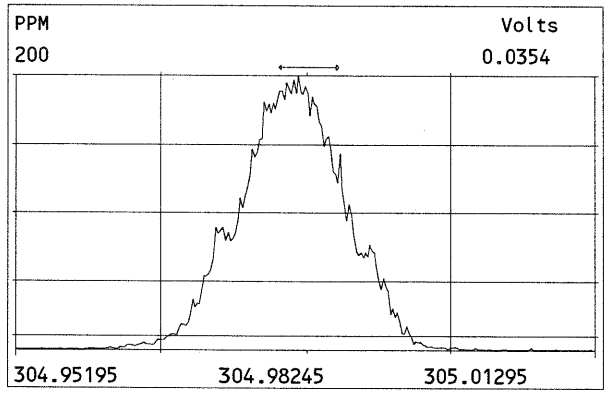
Peak Locate Examination: 3-APR-2019:07:39 File:03APR19Z
Experiment:1668PCB Function:3 Reference:PFK77

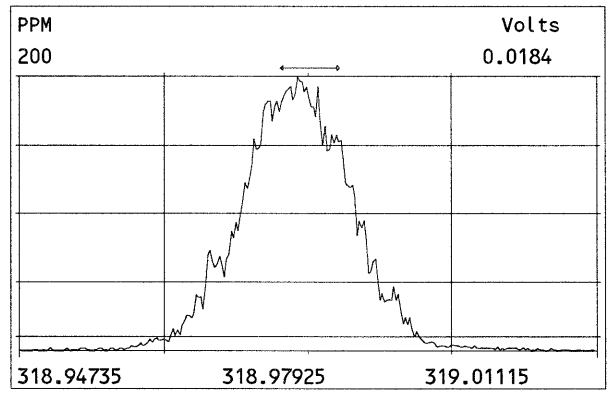


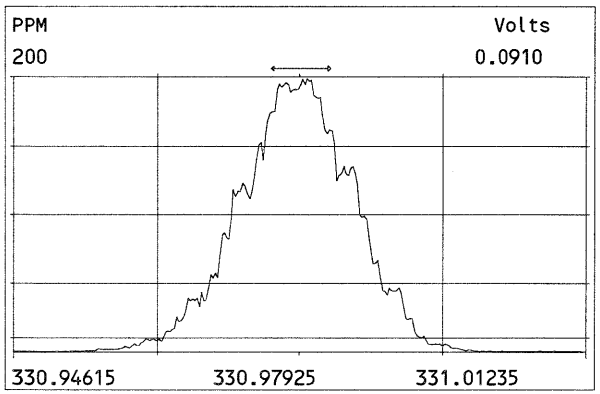


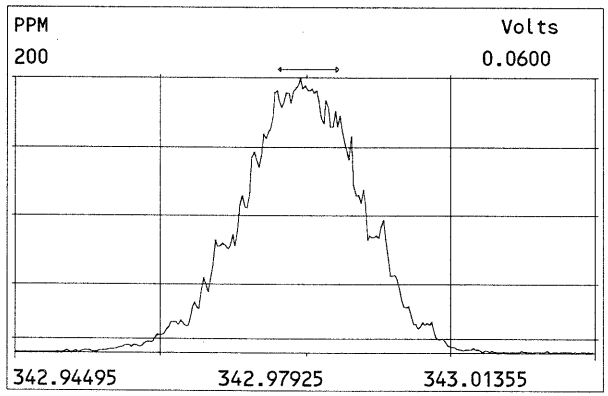




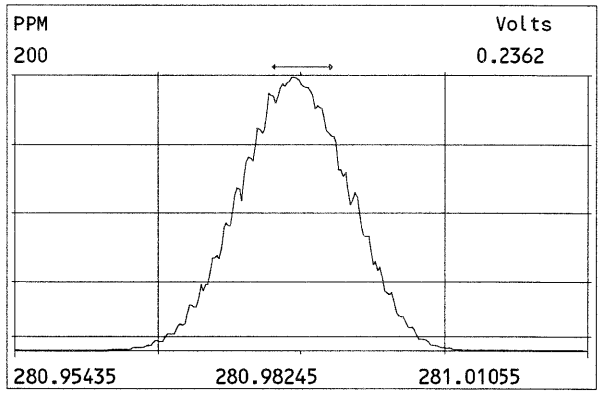


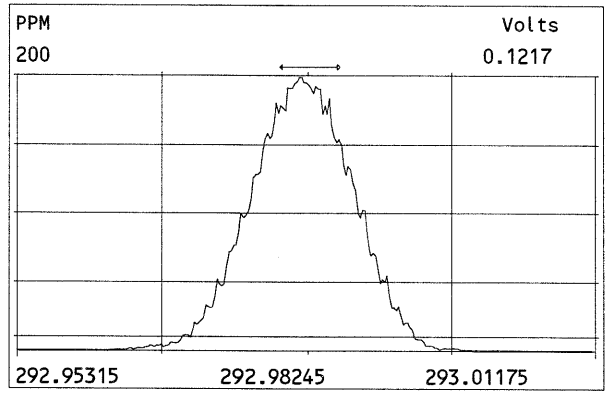


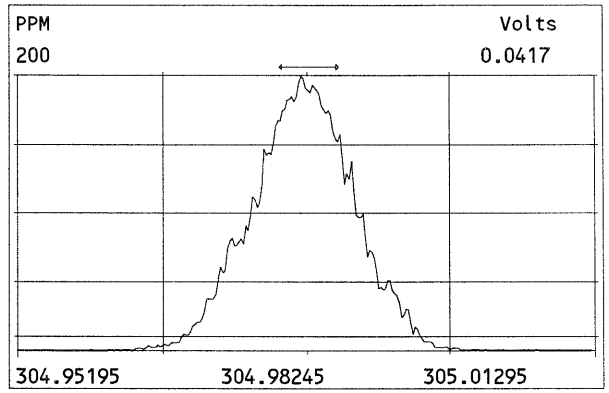


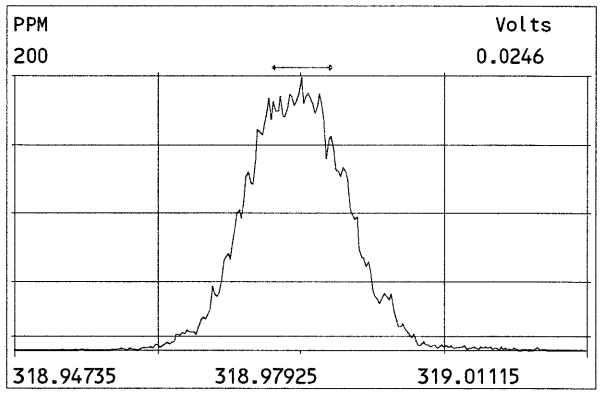


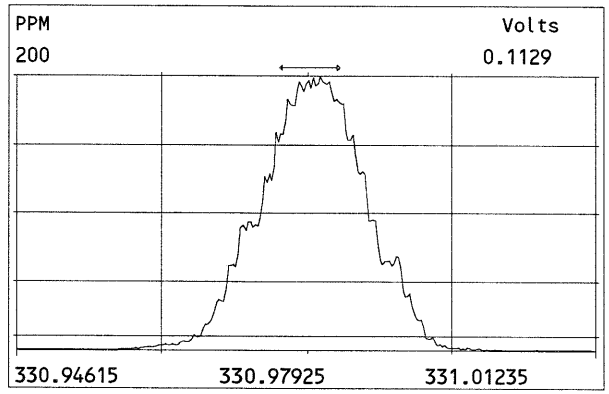
Peak Locate Examination: 3-APR-2019:07:40 File:03APR19Z
Experiment:1668PCB Function:4 Reference:PFK77

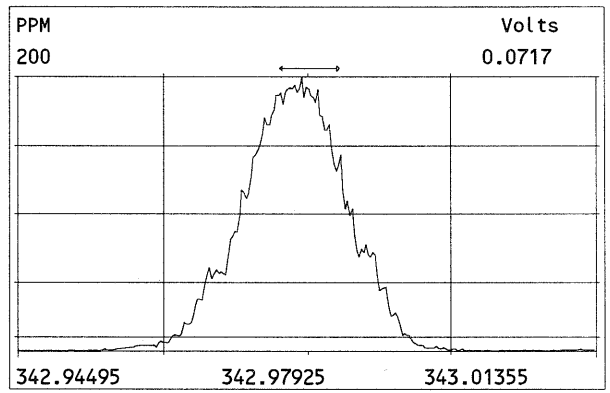


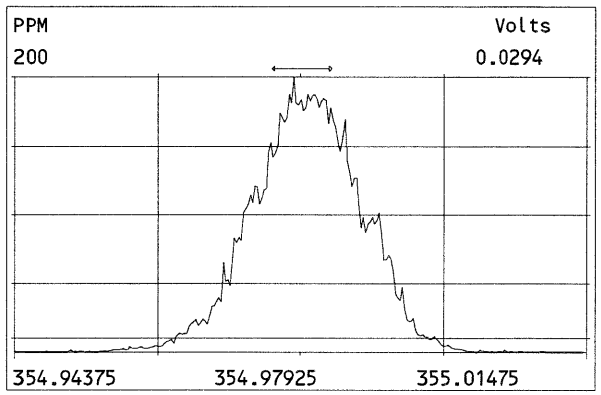


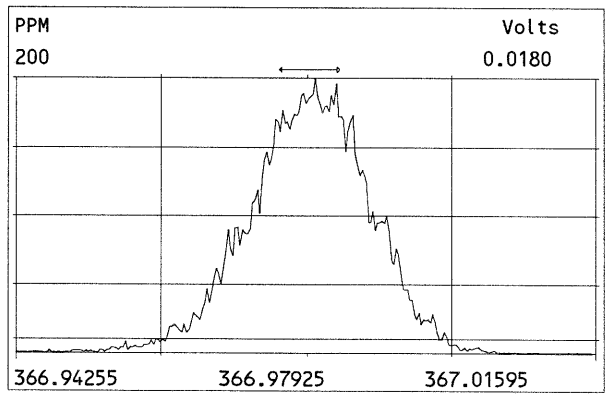


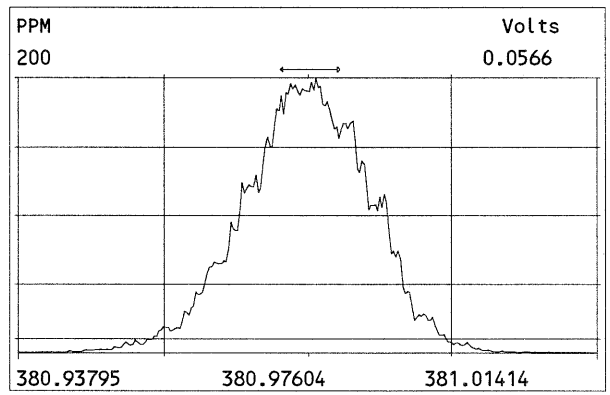




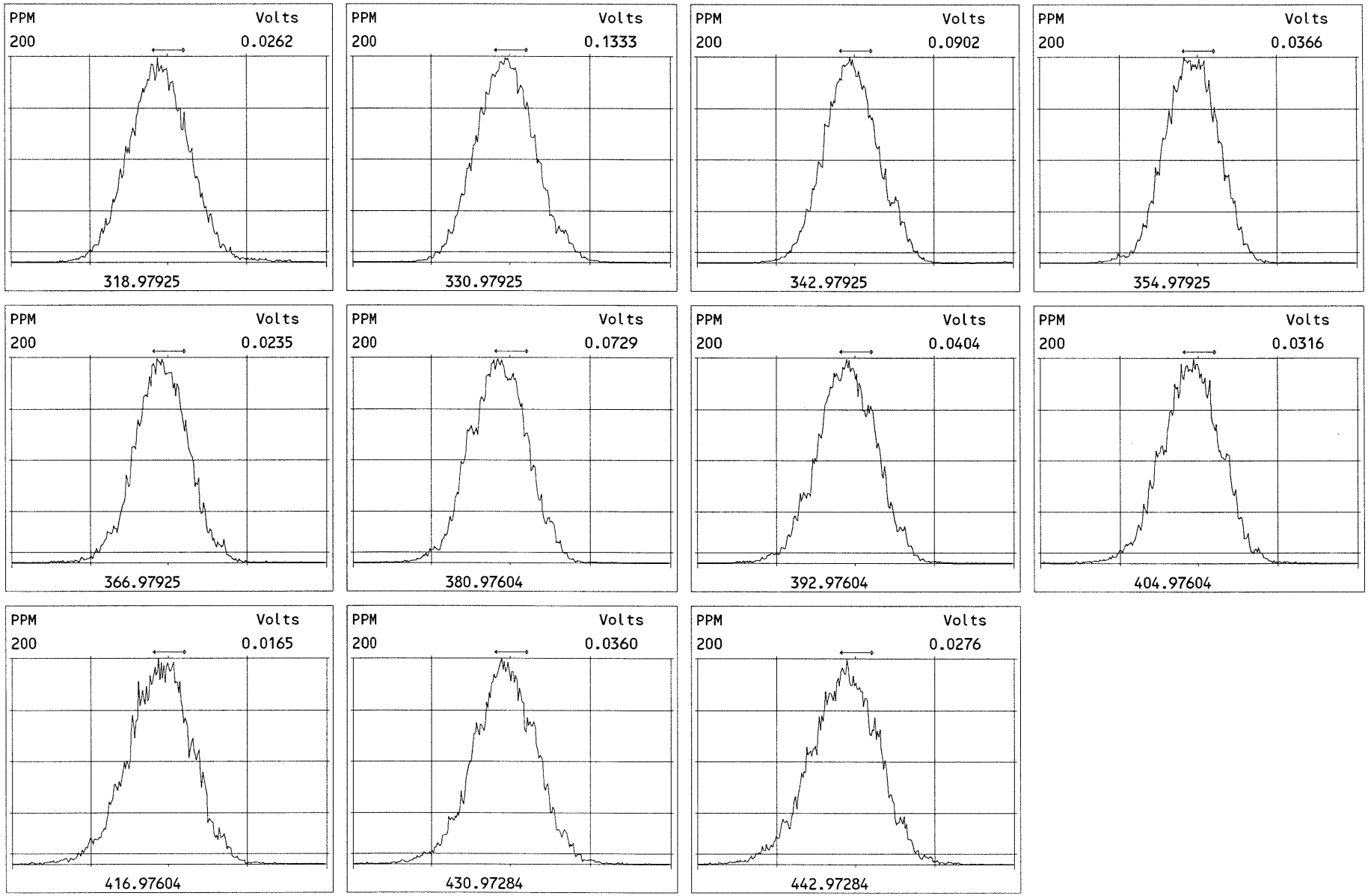




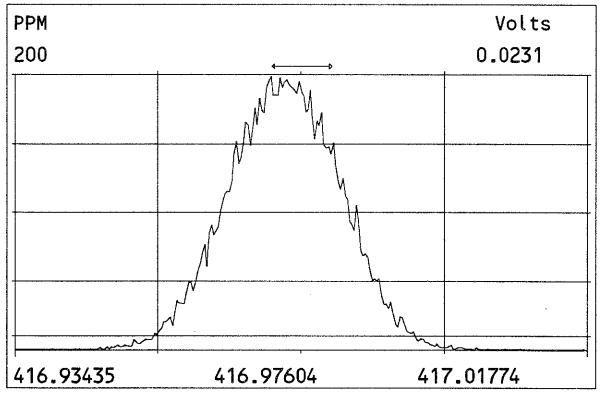


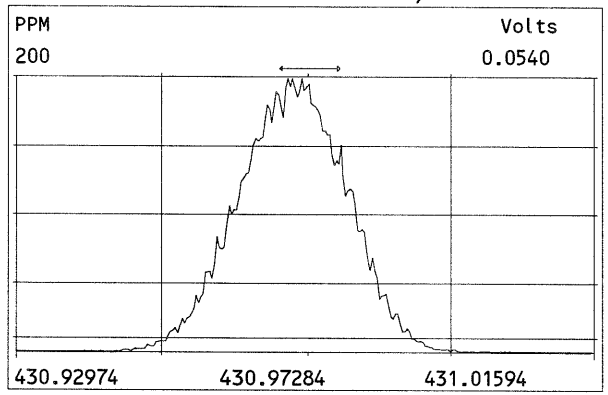


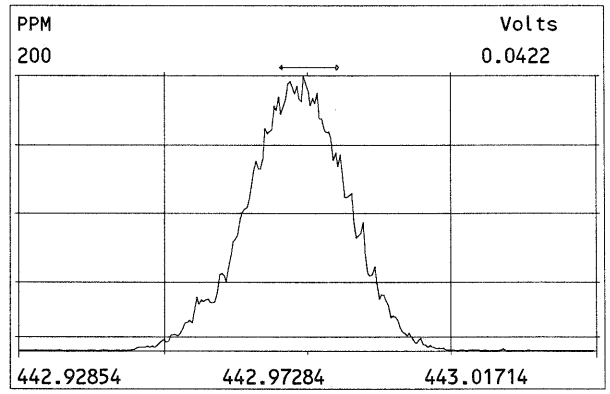
Peak Locate Examination: 3-APR-2019:07:40 File:03APR19Z
Experiment:1668PCB Function:5 Reference:PFK77

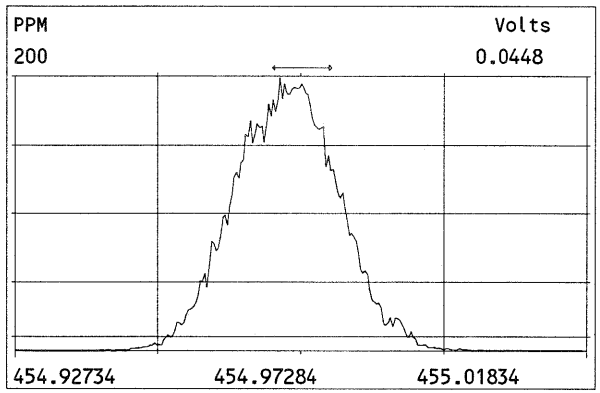


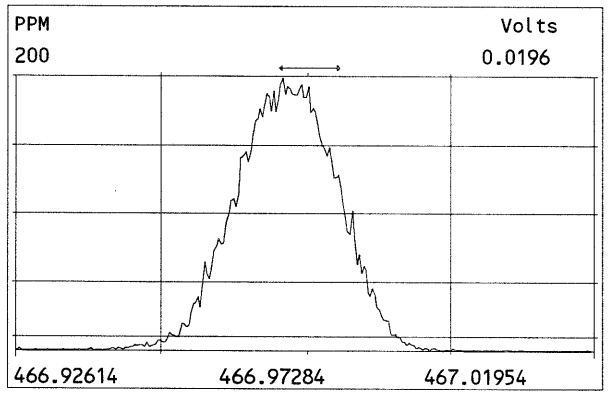
Peak Locate Examination: 3-APR-2019:07:41 File:03APR19Z
Experiment:1668PCB Function:6 Reference:PFK 77

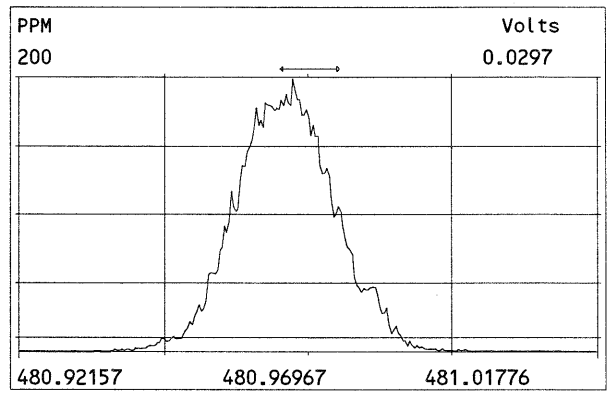


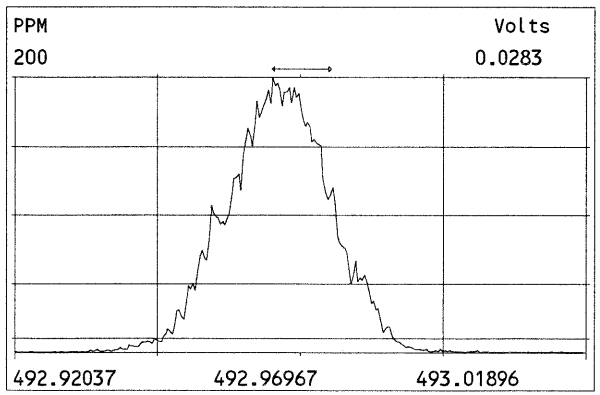


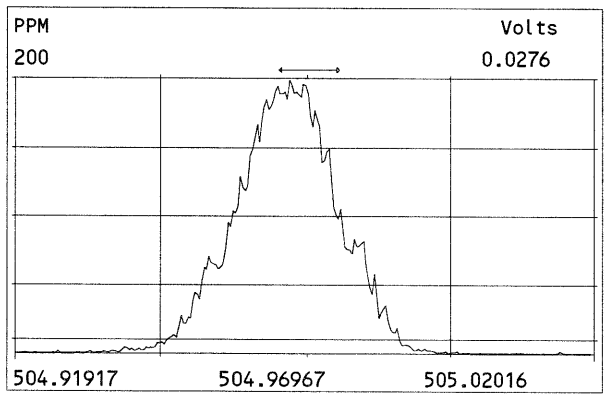


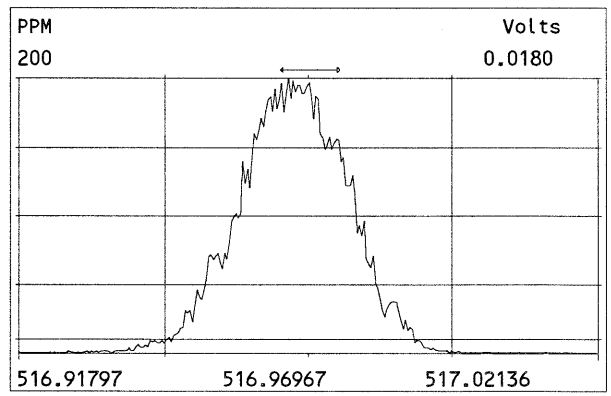




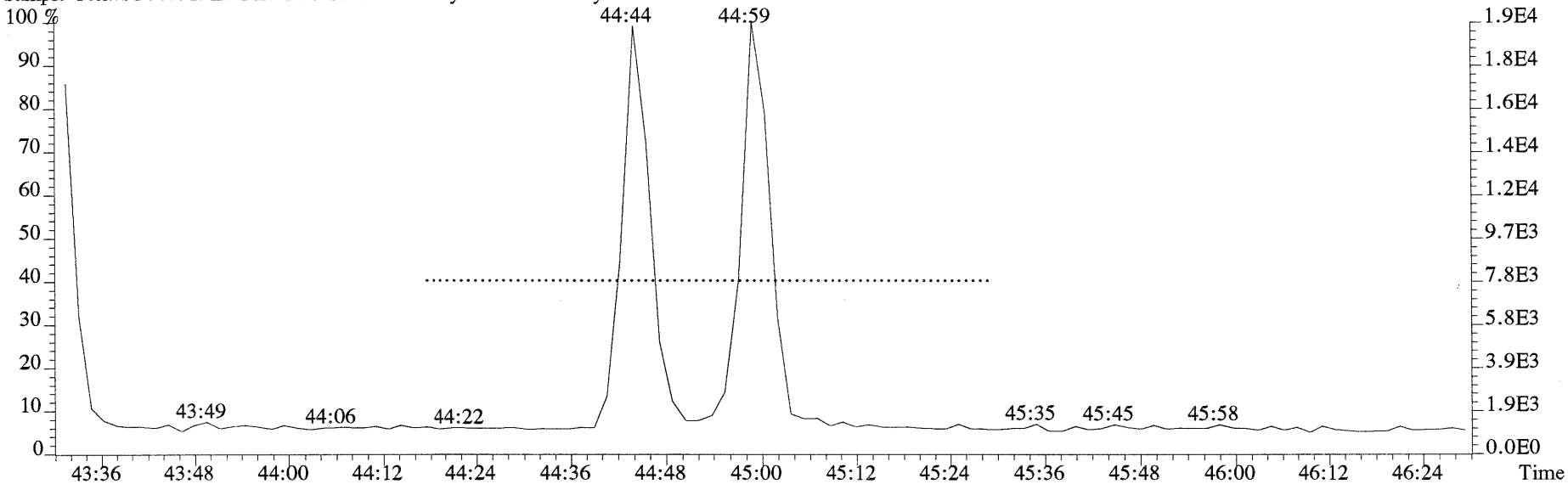








File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
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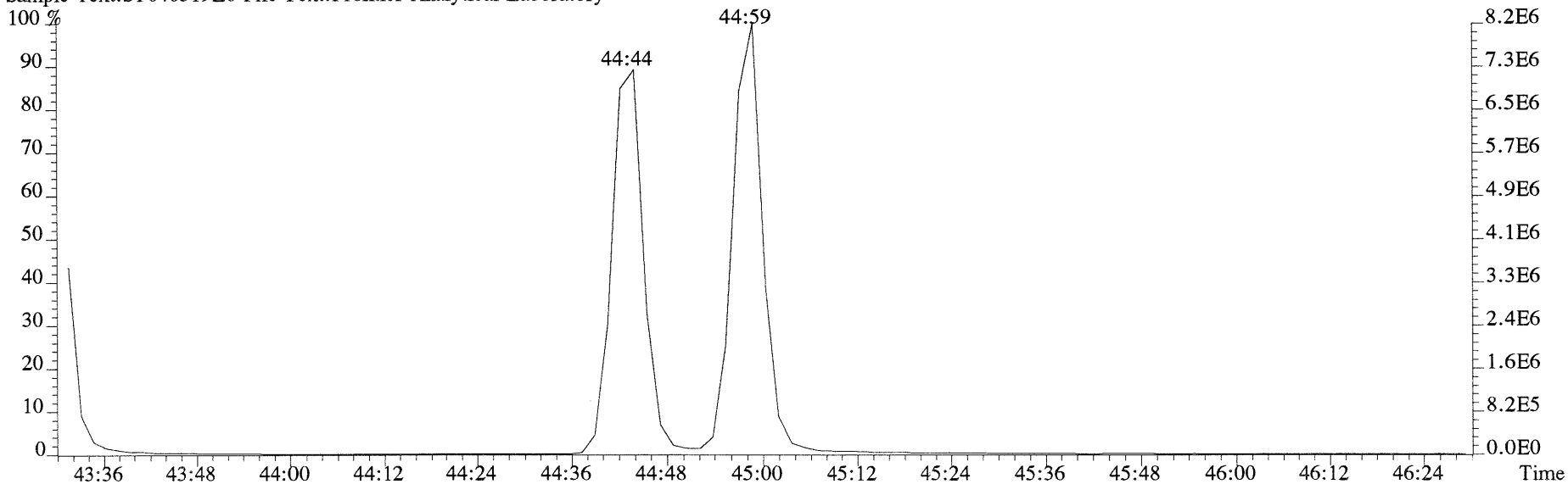
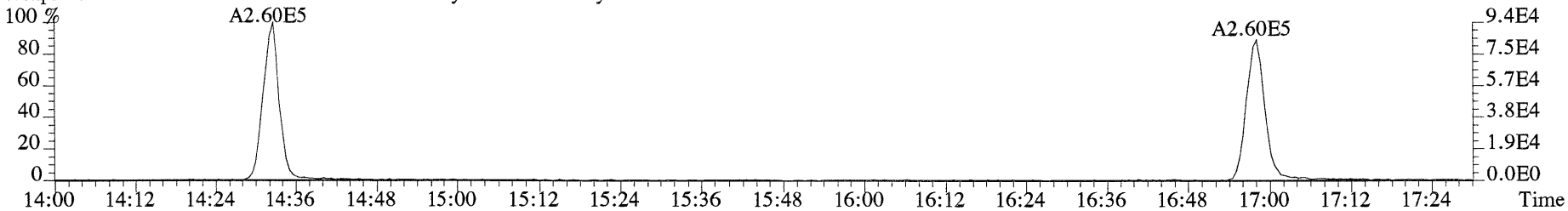
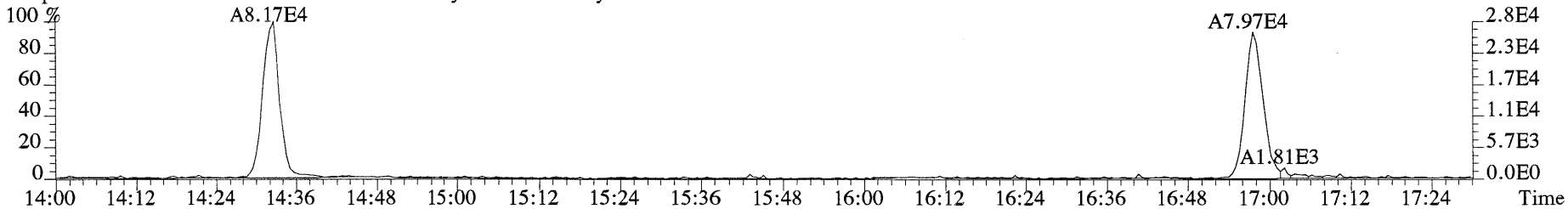


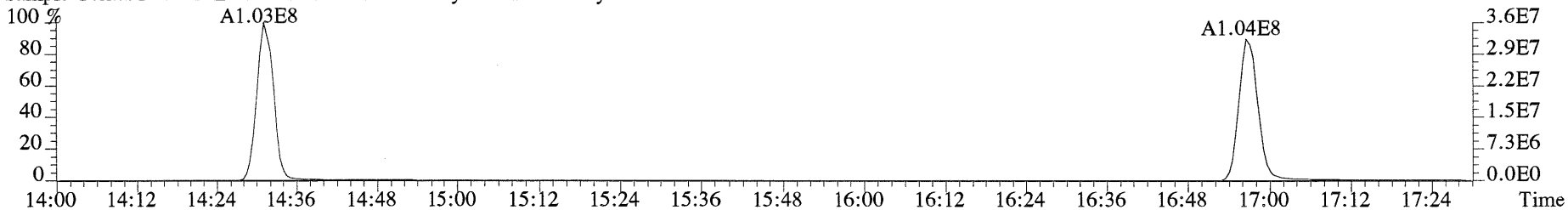
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



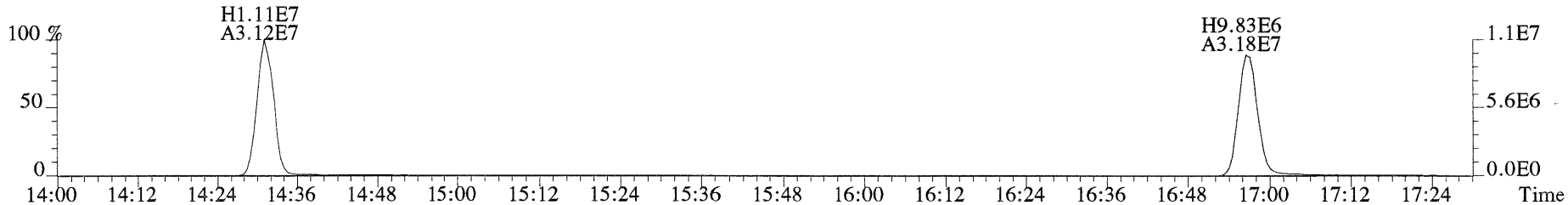
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



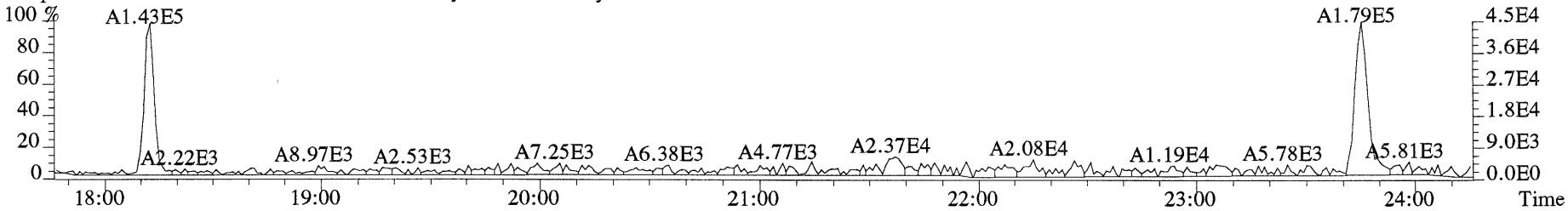
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



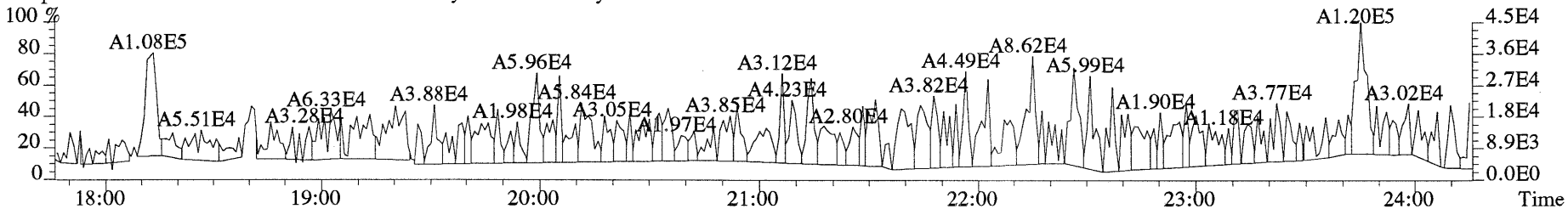
File:03APR19Z #1-784 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



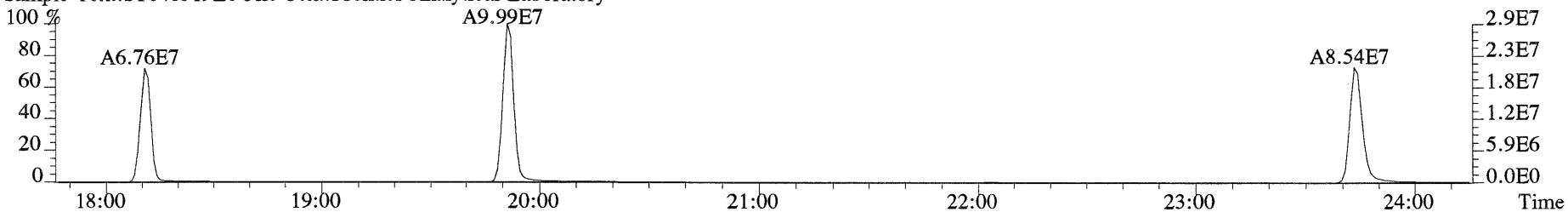
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



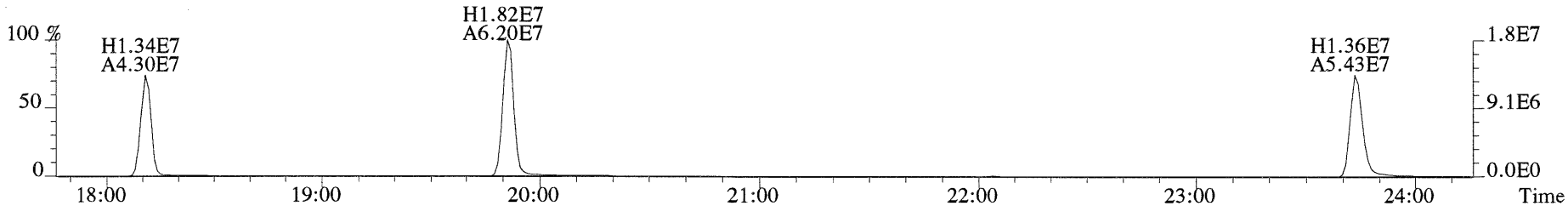
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



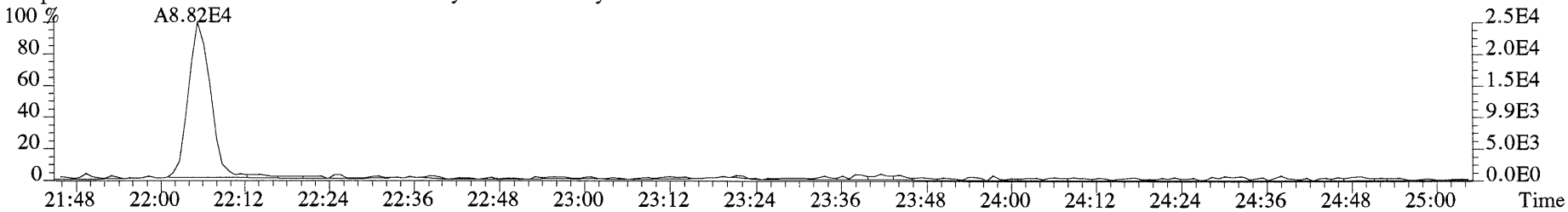
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



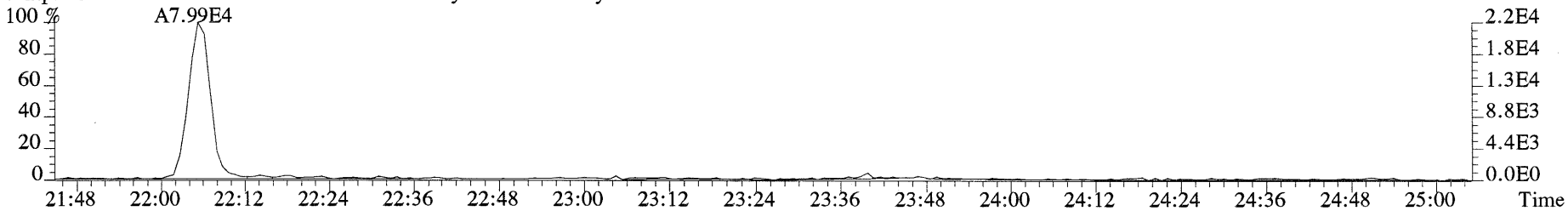
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



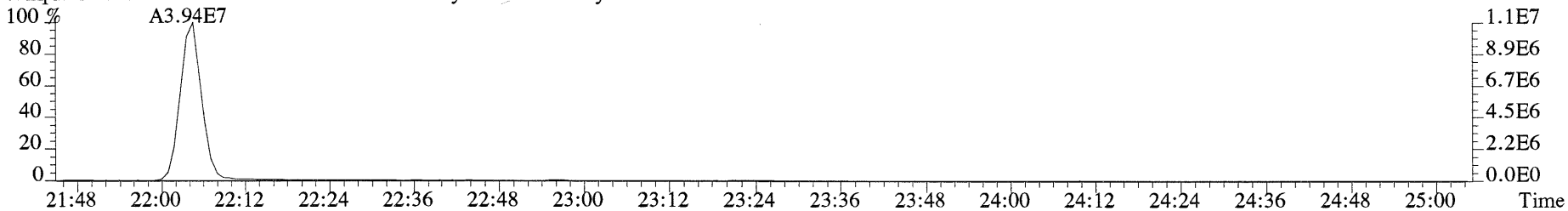
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



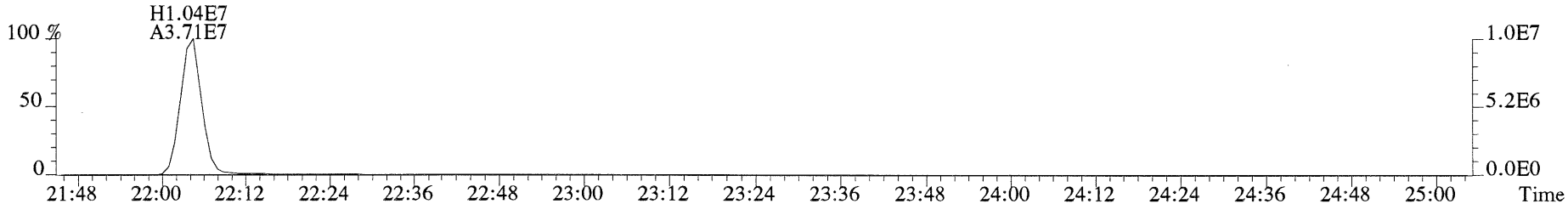
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



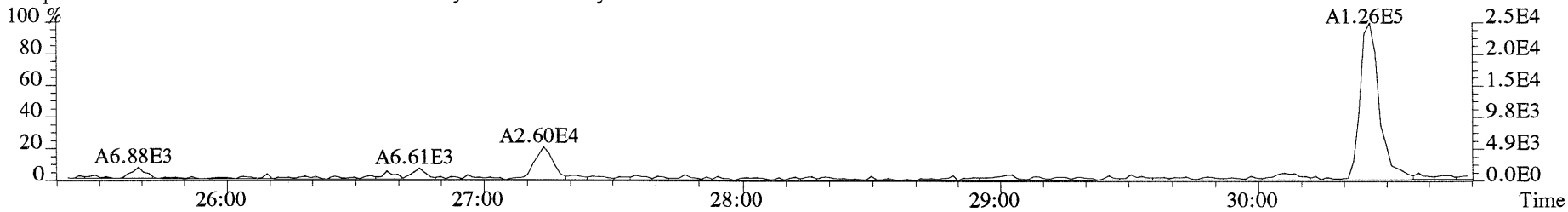
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



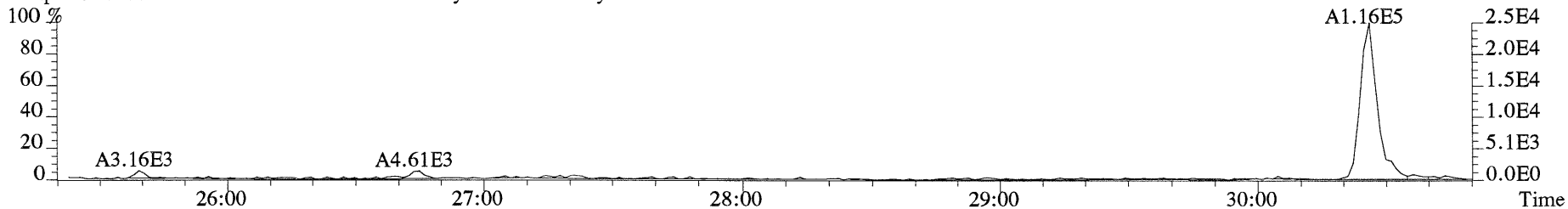
File:03APR19Z #1-520 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



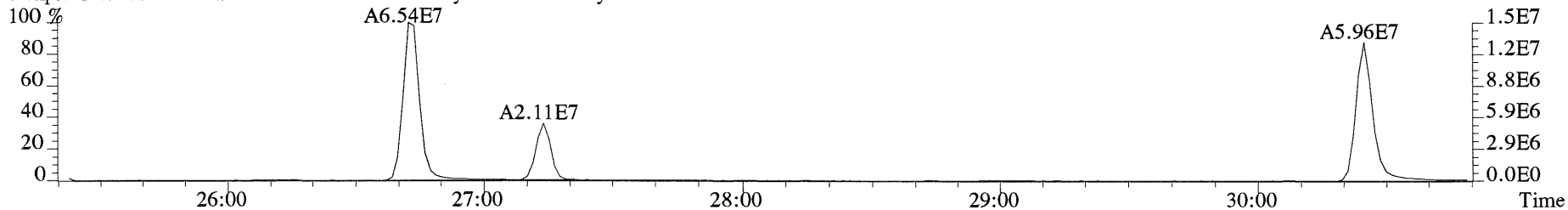
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



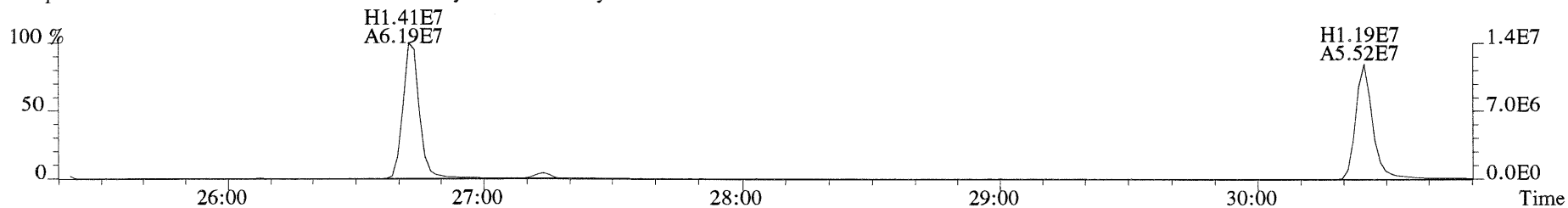
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



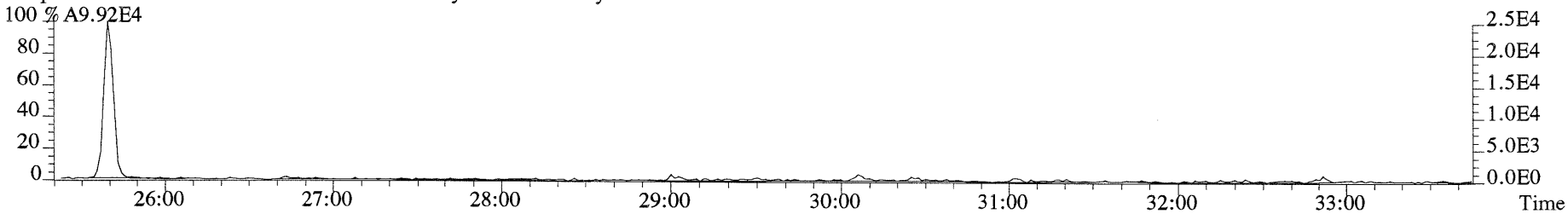
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



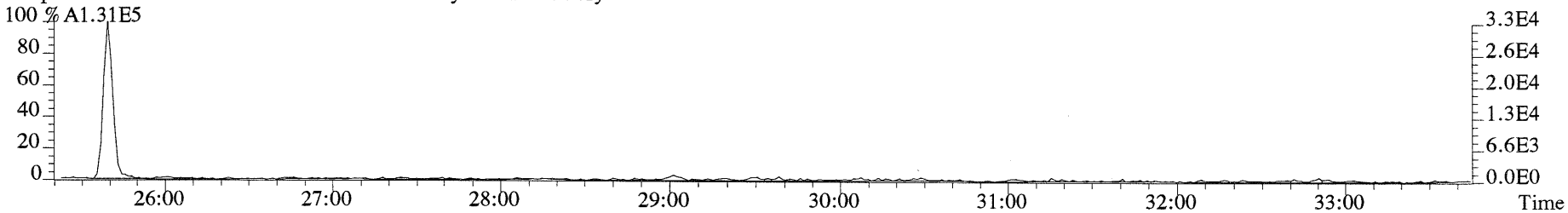
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



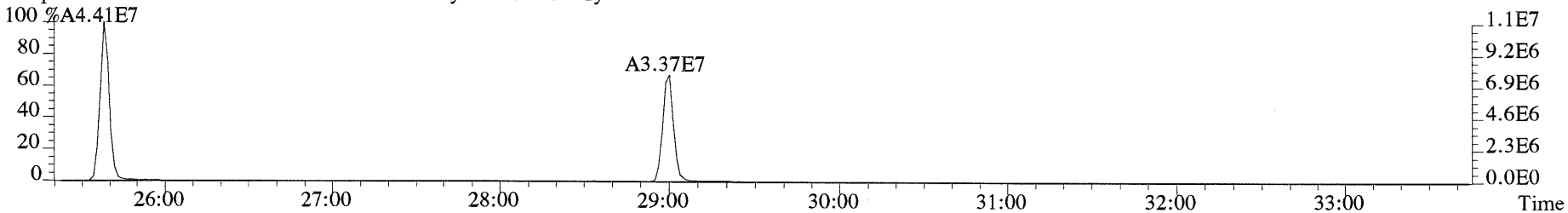
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



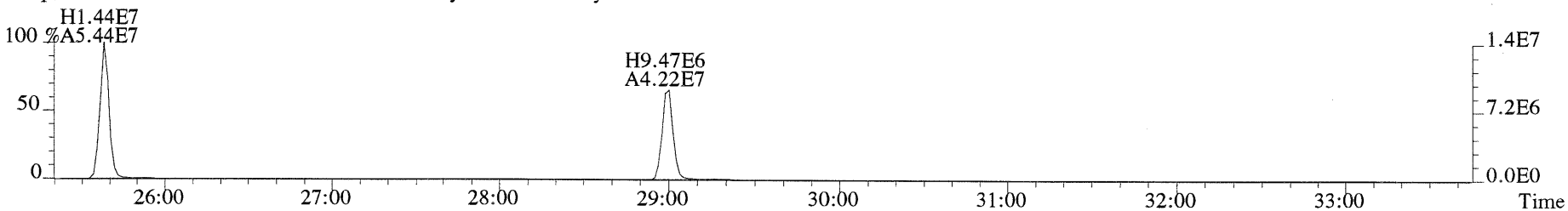
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



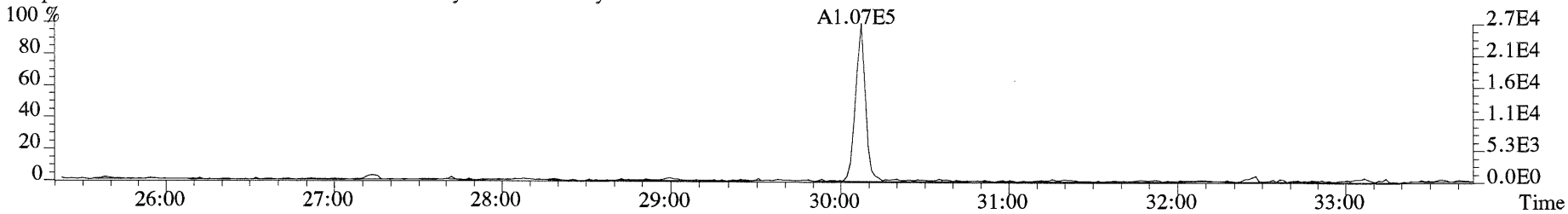
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



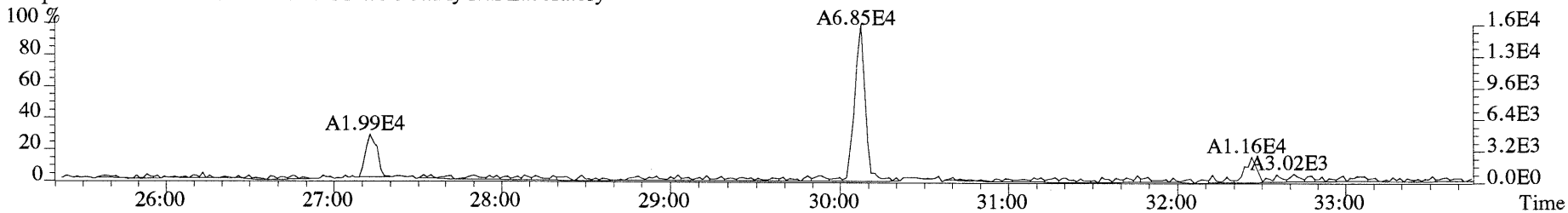
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



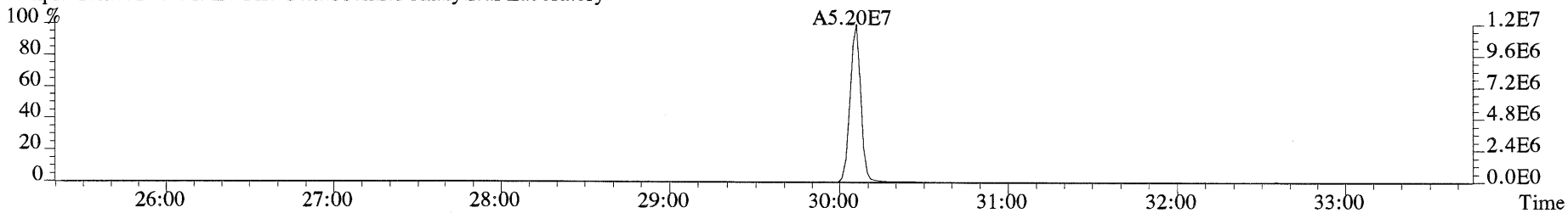
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



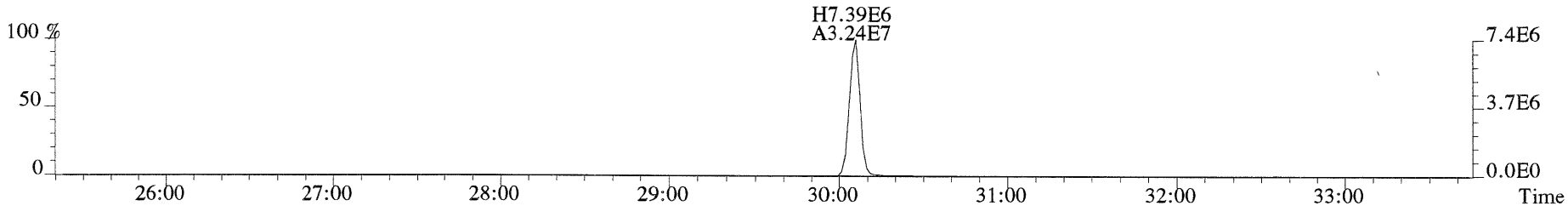
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



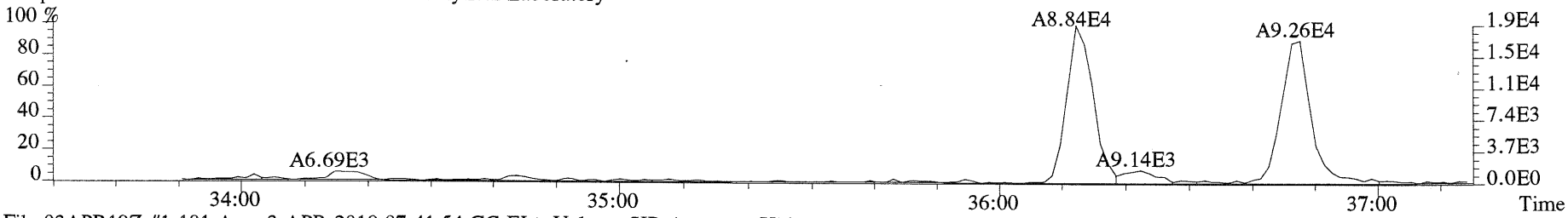
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



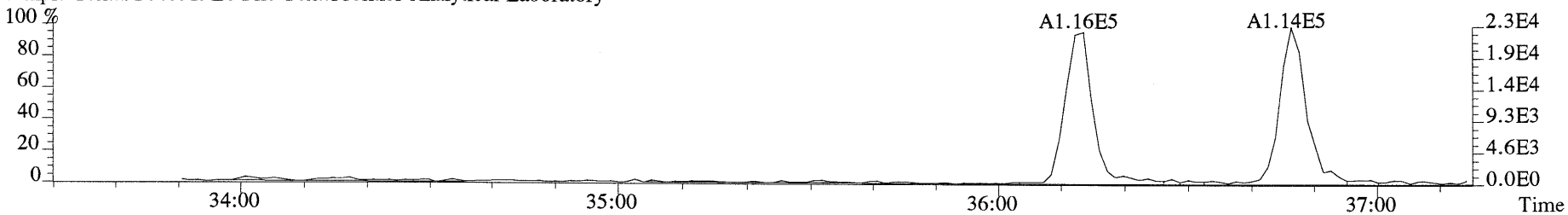
File:03APR19Z #1-401 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



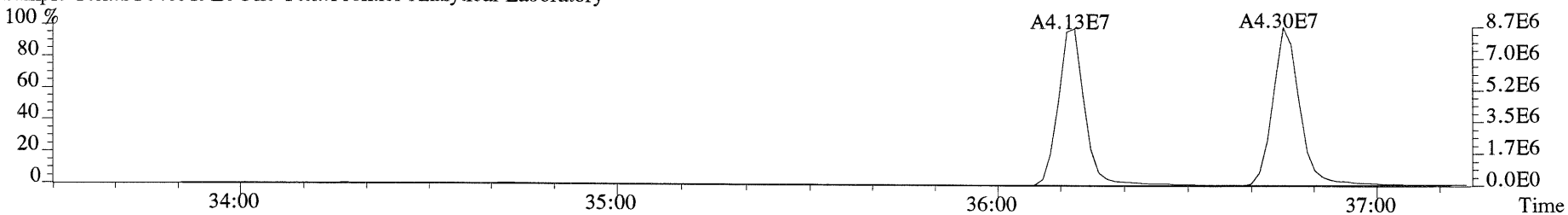
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



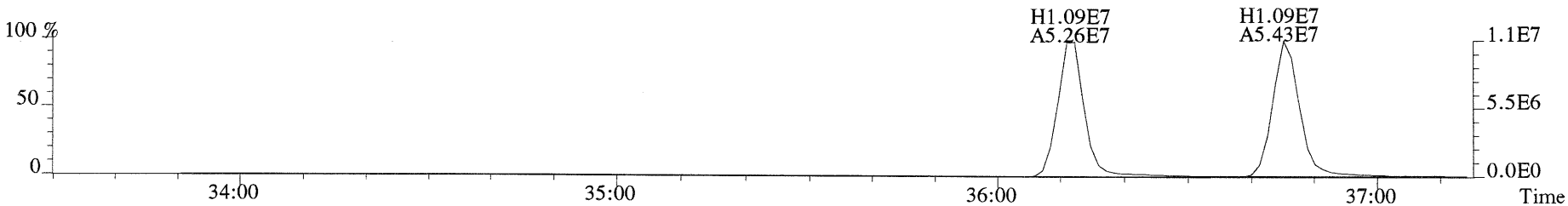
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



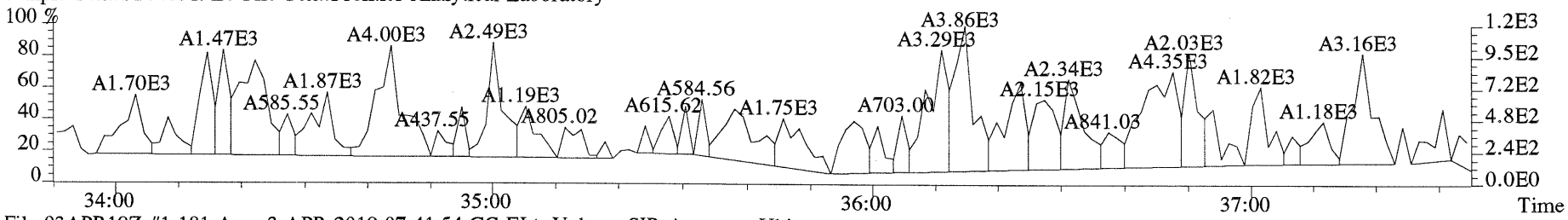
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



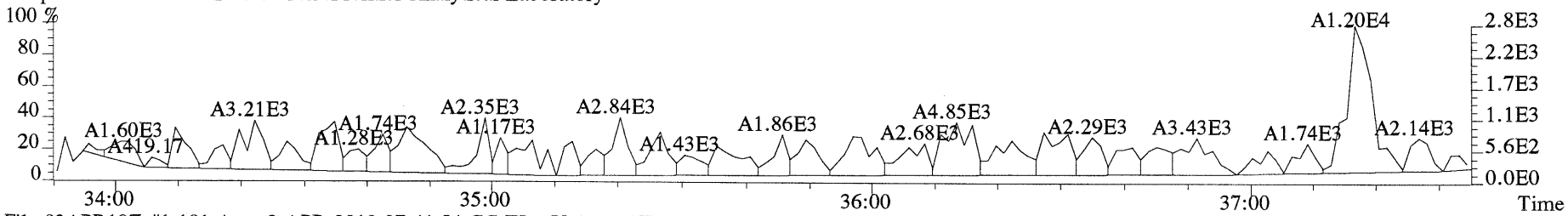
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



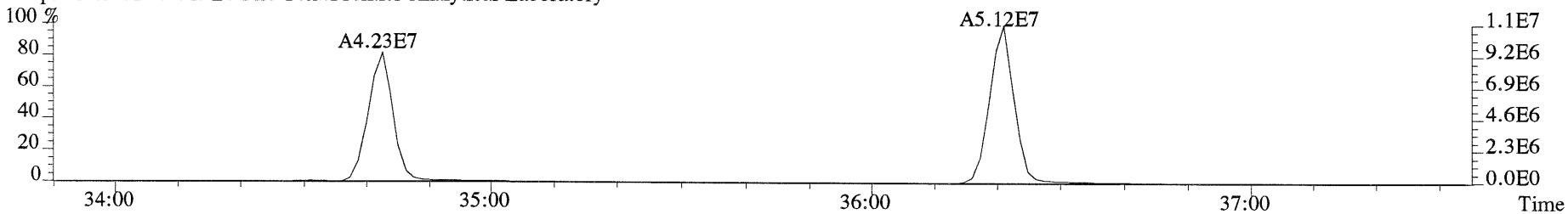
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



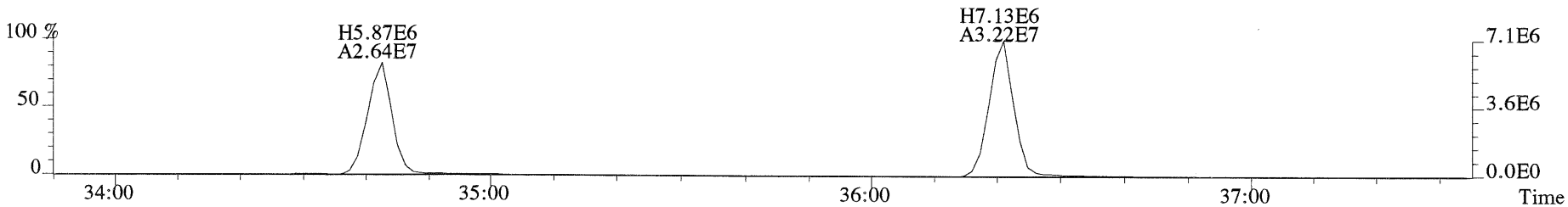
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



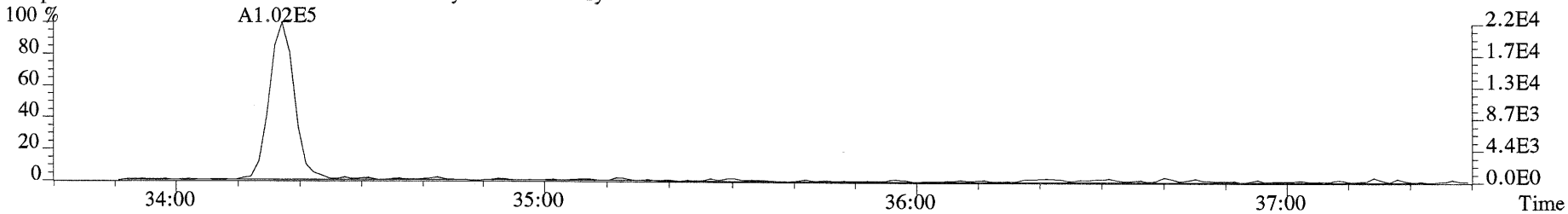
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



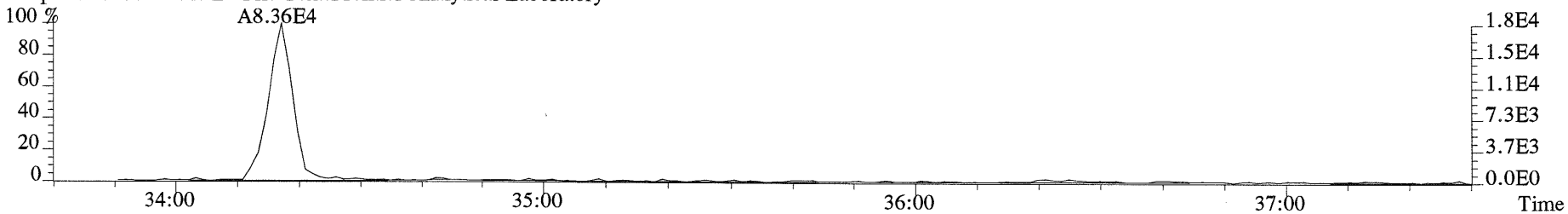
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



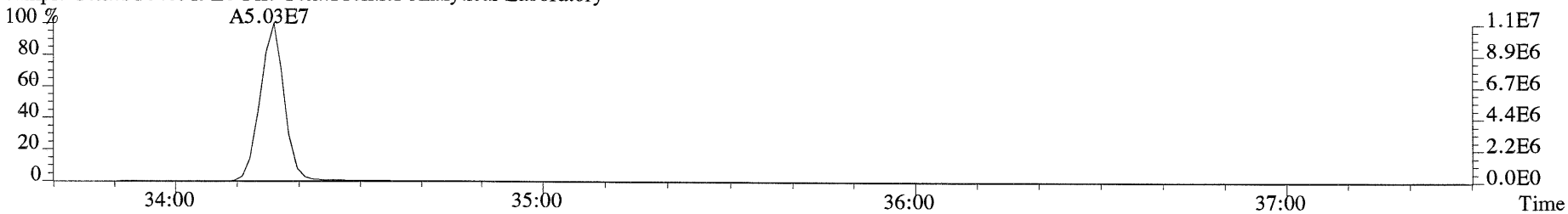
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



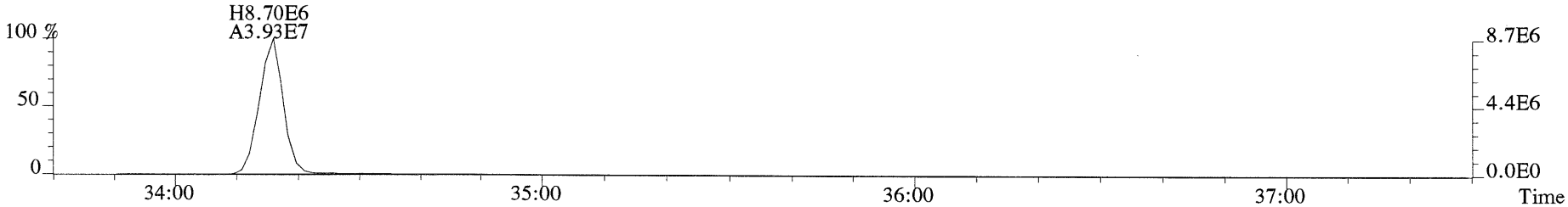
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



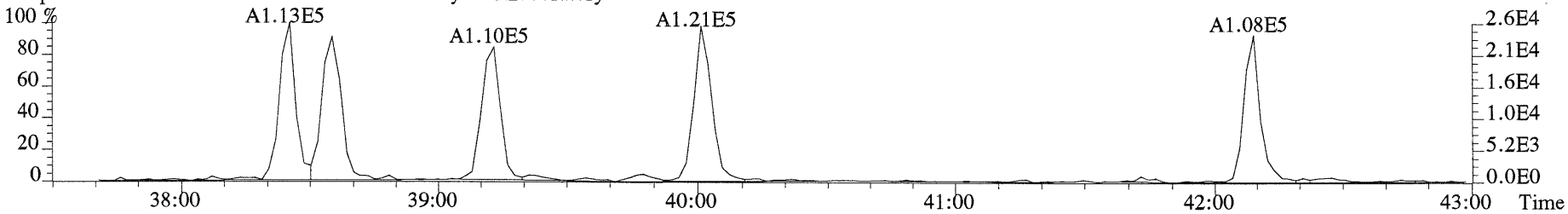
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



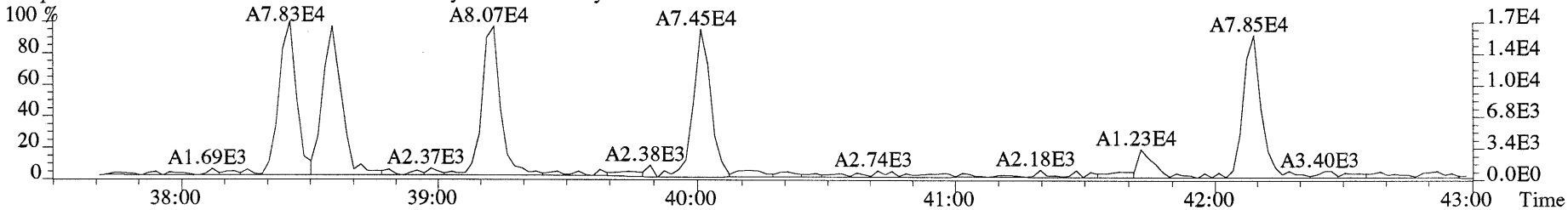
File:03APR19Z #1-181 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



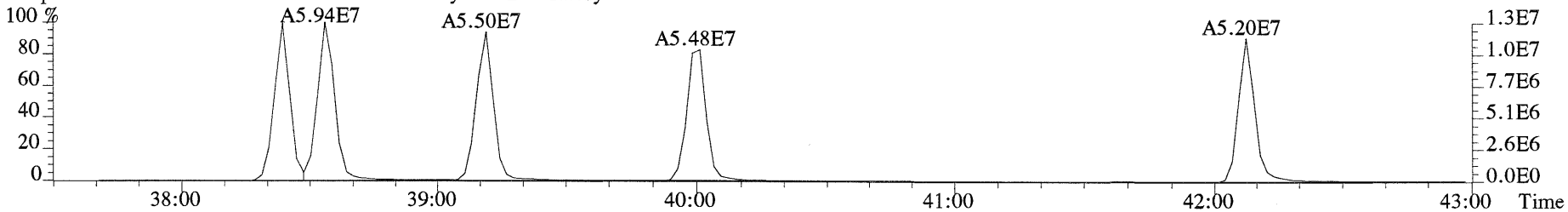
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



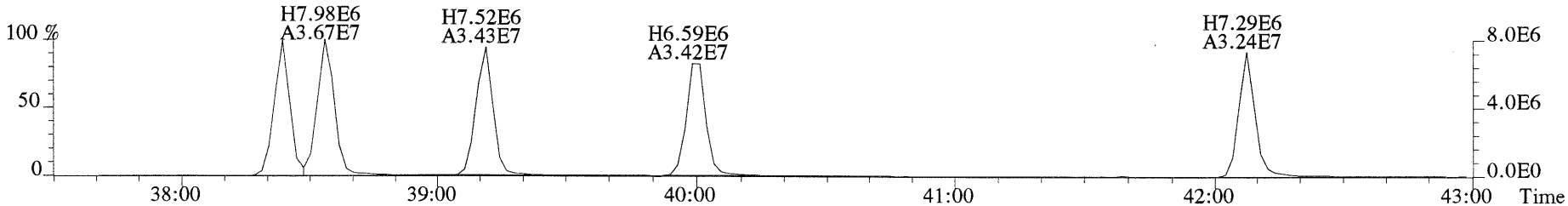
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



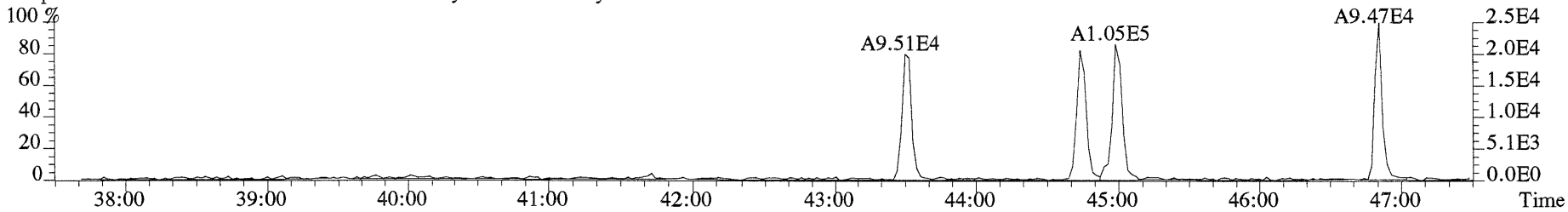
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



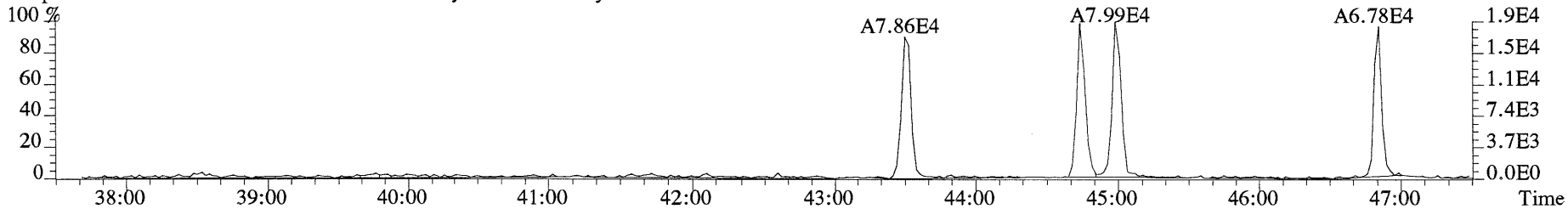
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



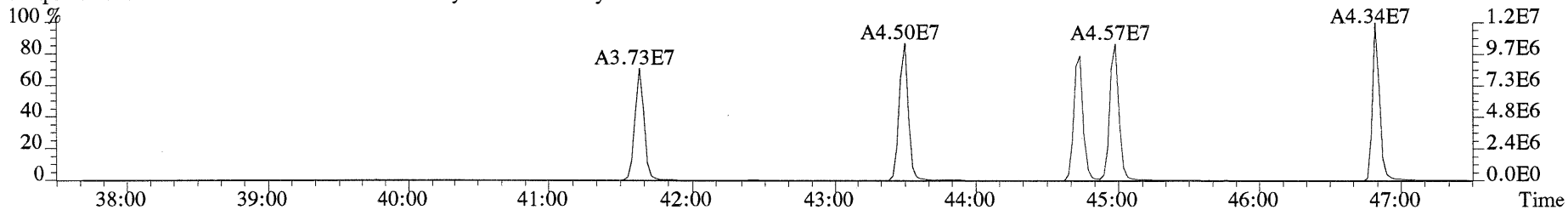
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



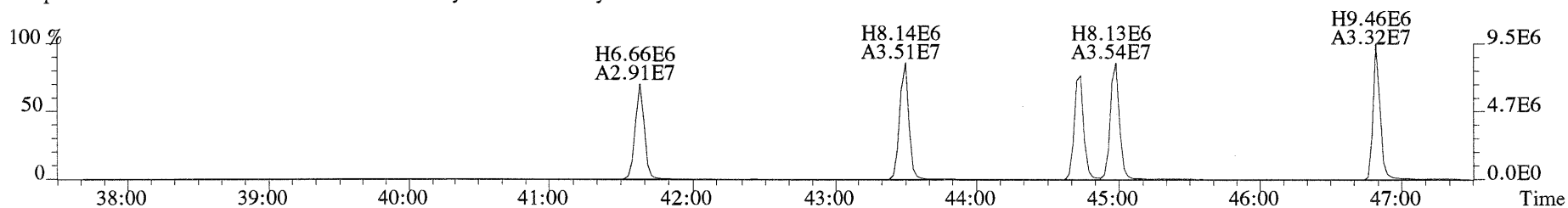
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



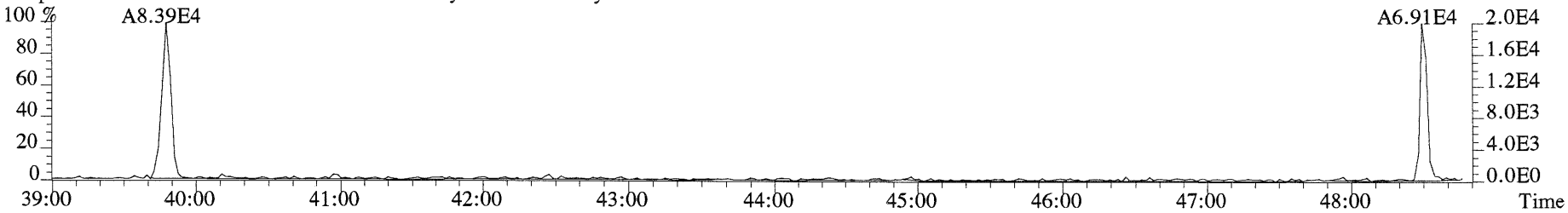
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



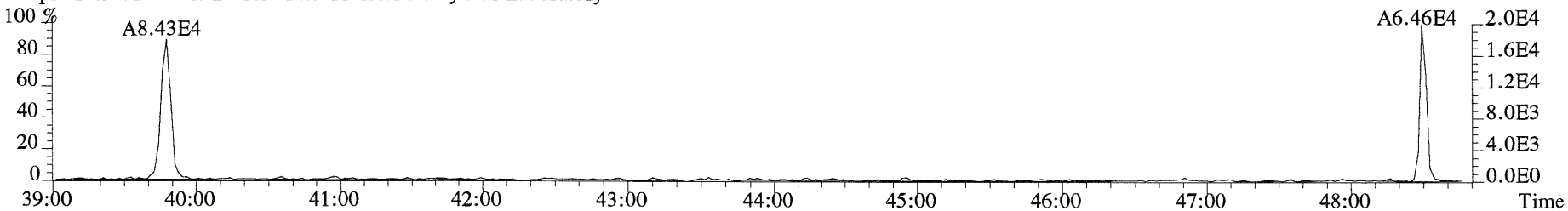
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



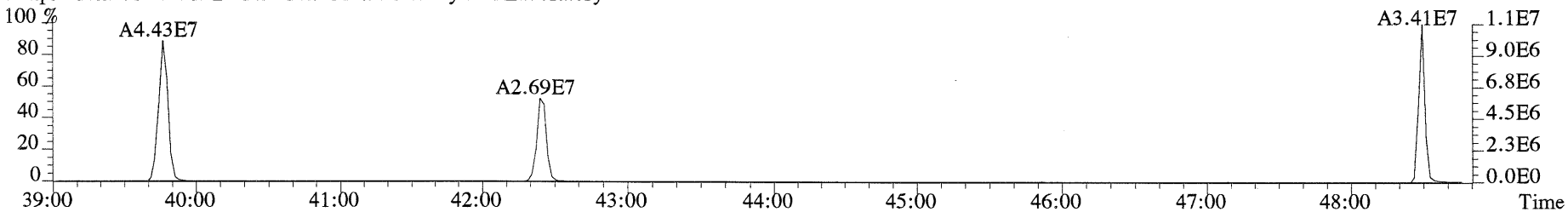
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



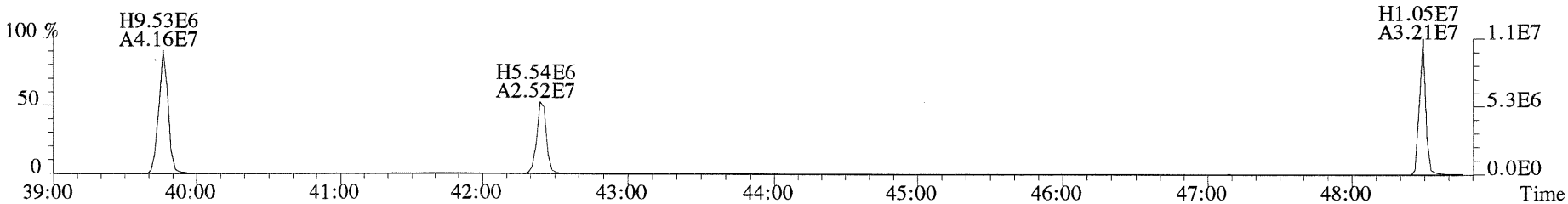
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



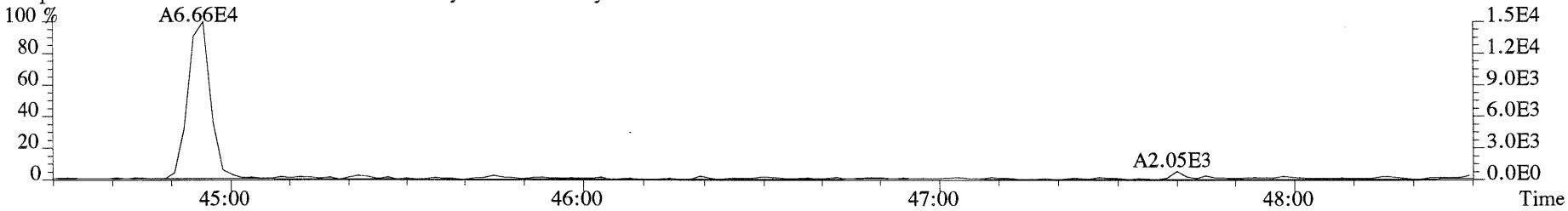
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



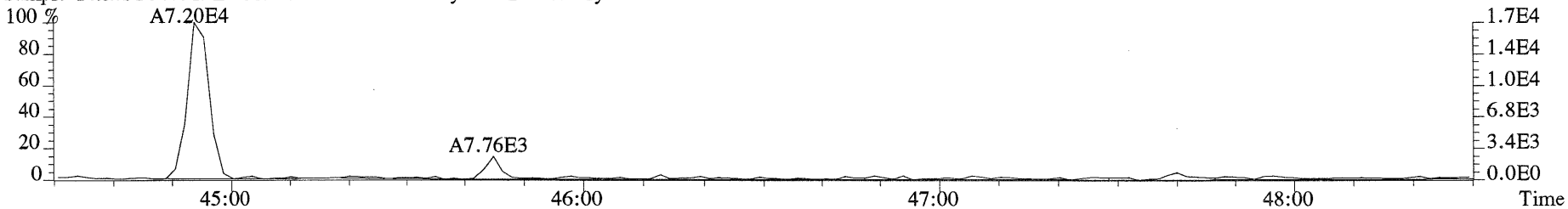
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



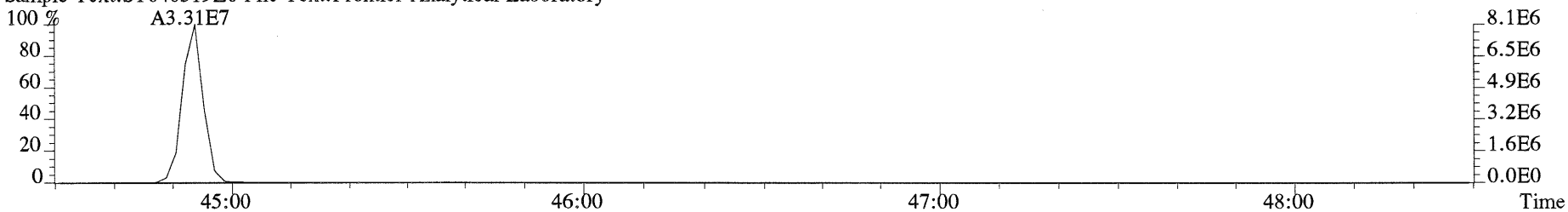
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



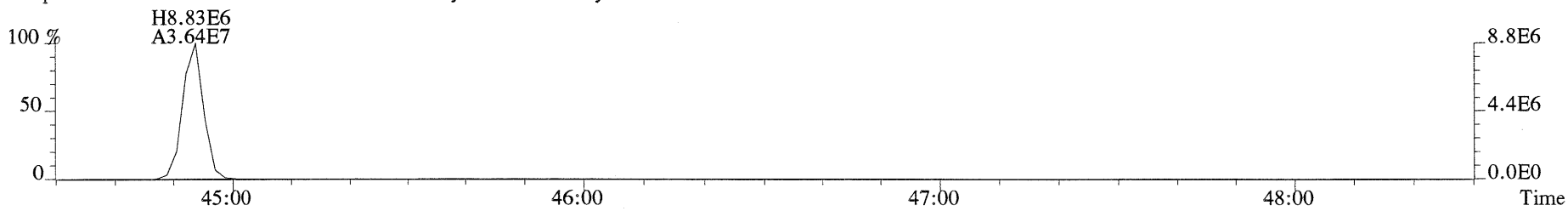
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



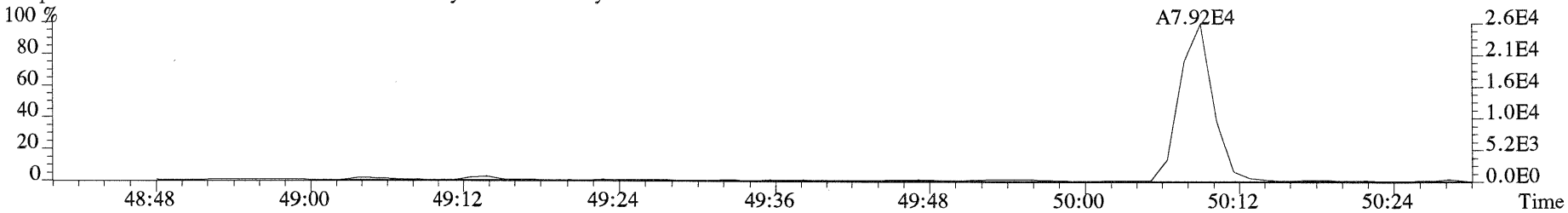
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



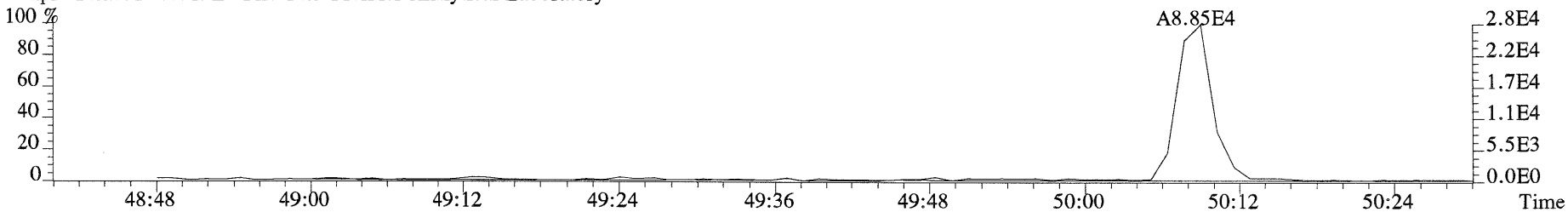
File:03APR19Z #1-405 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



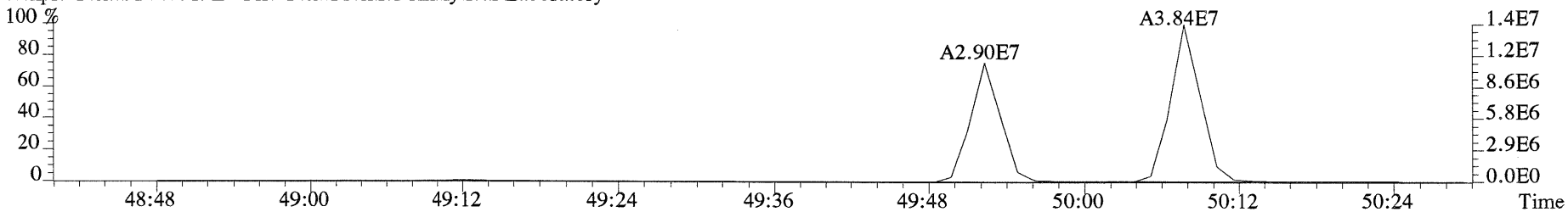
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



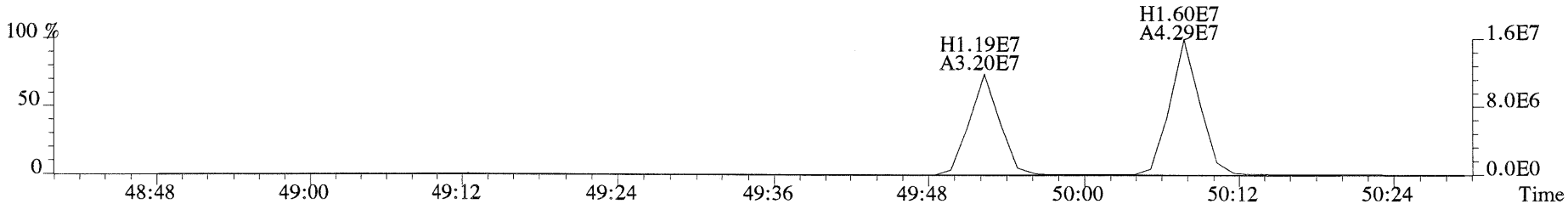
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



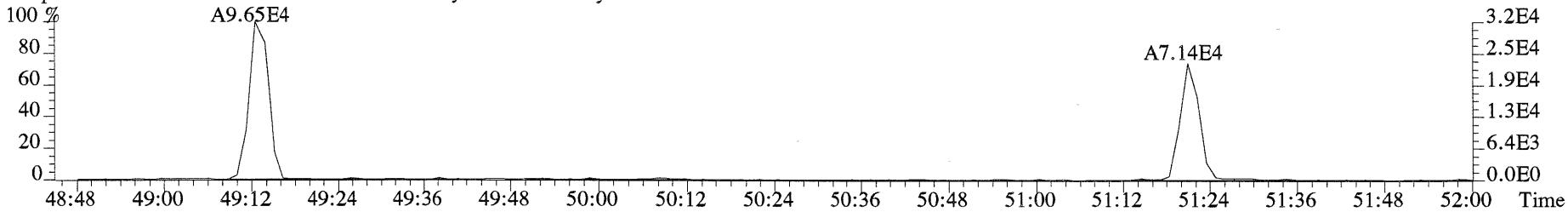
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



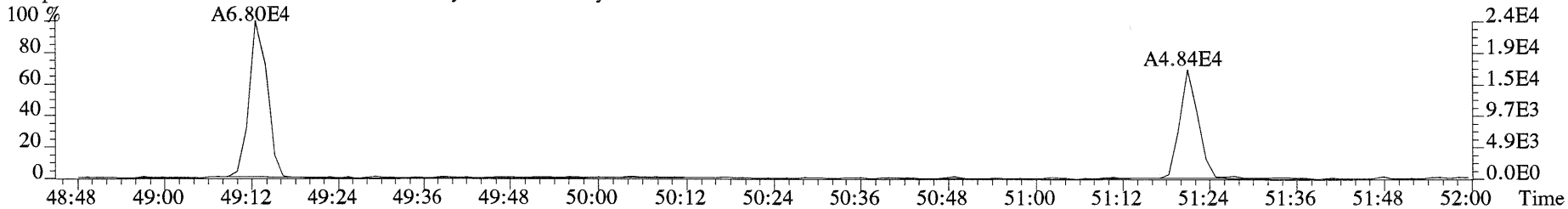
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



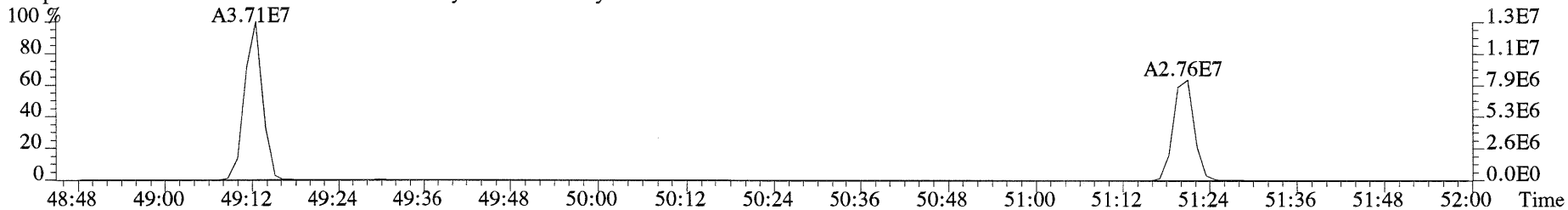
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



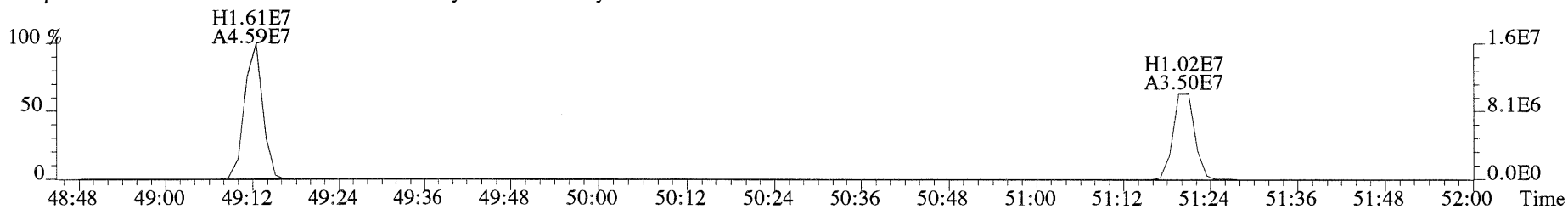
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



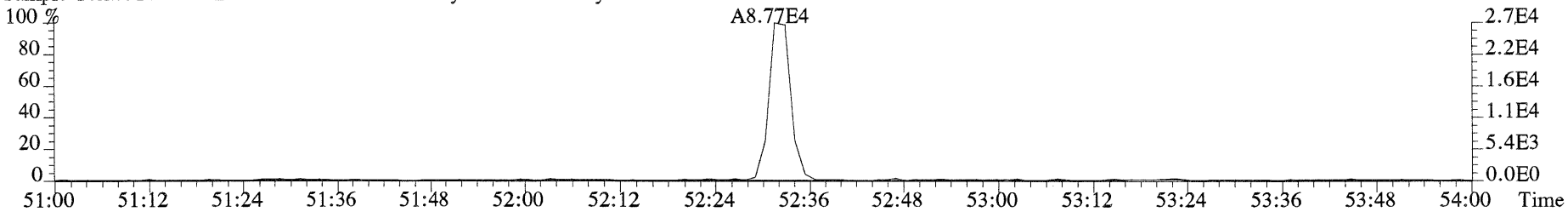
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



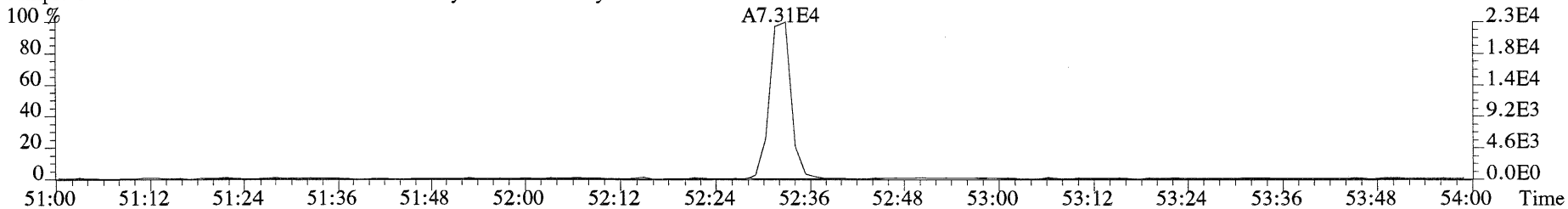
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



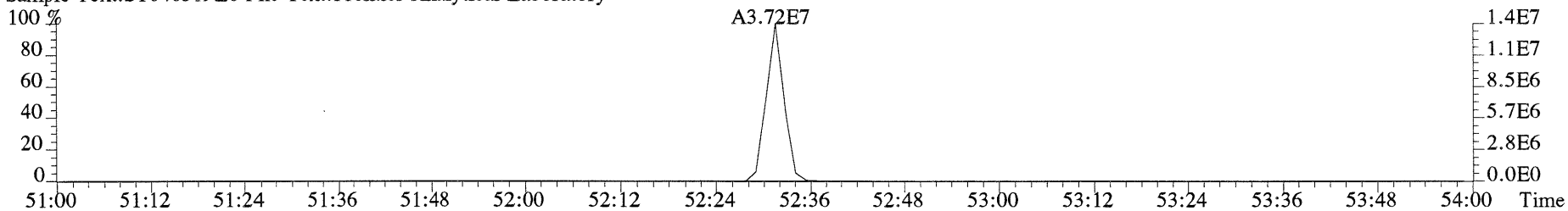
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



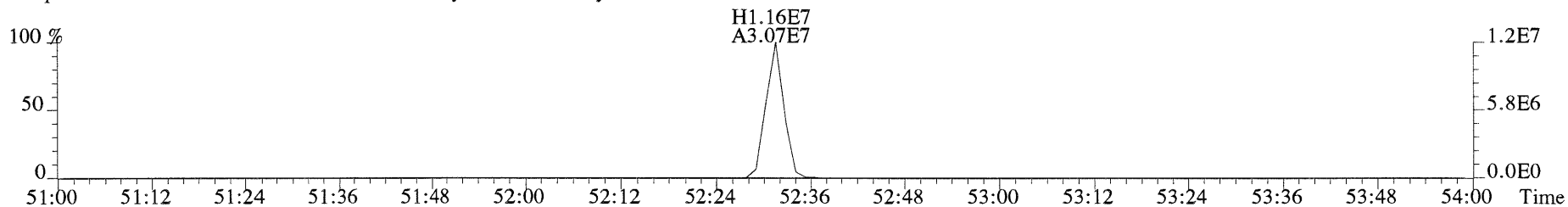
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



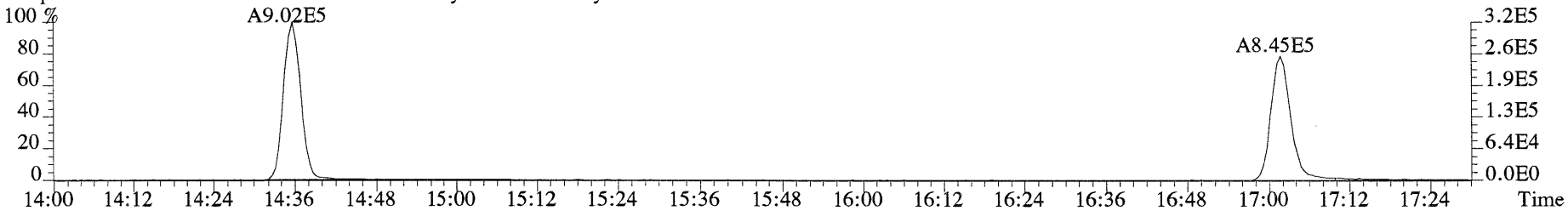
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



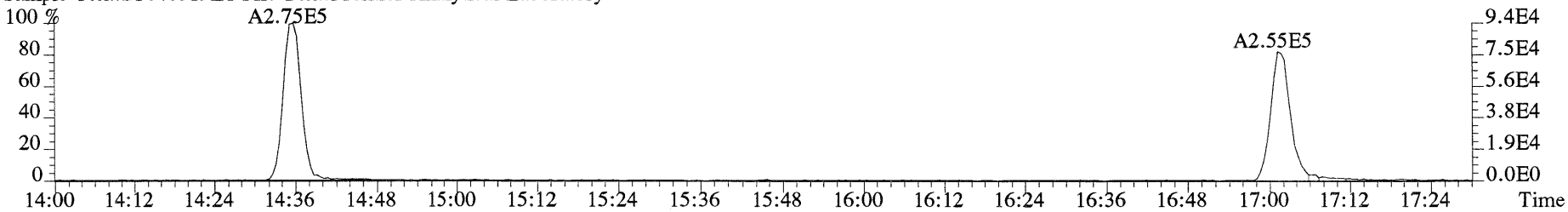
File:03APR19Z #1-315 Acq: 3-APR-2019 07:41:54 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z0 File Text:Frontier Analytical Laboratory



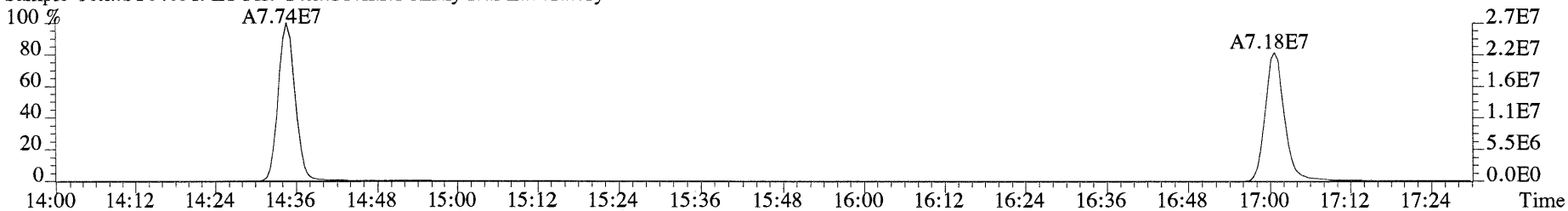
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



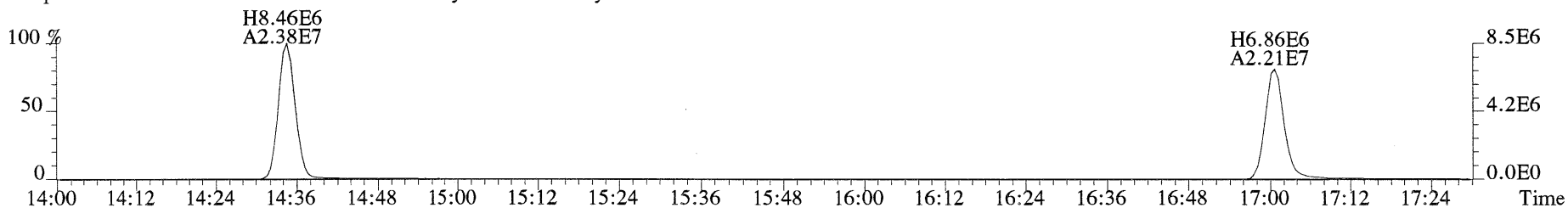
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



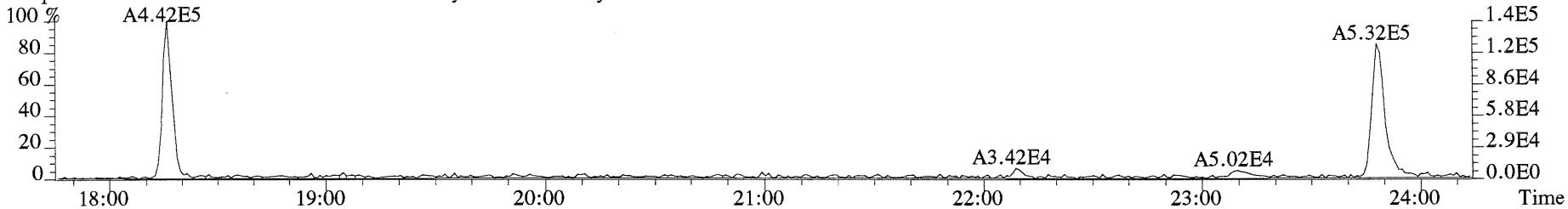
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



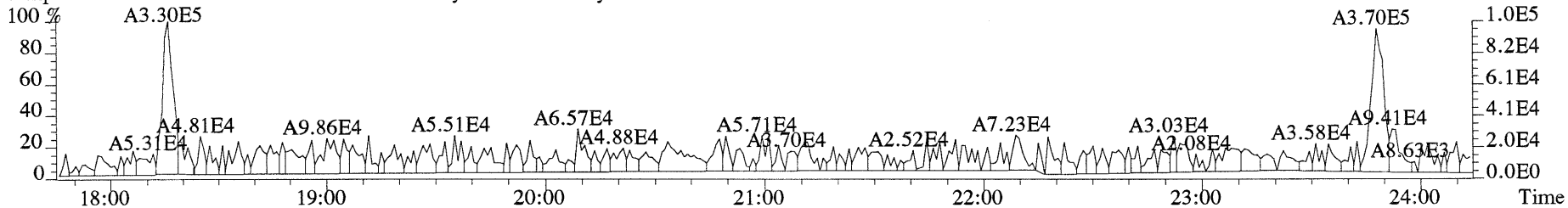
File:03APR19Z #1-784 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



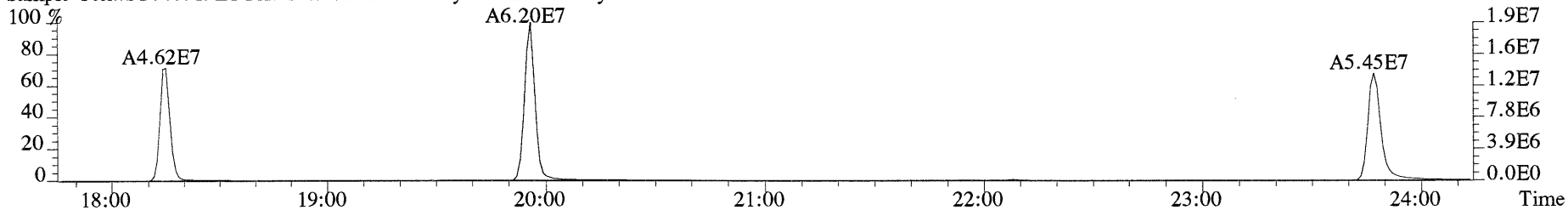
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



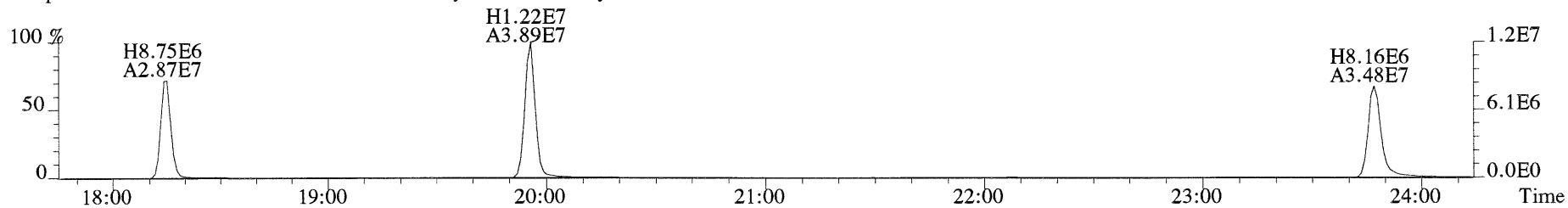
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



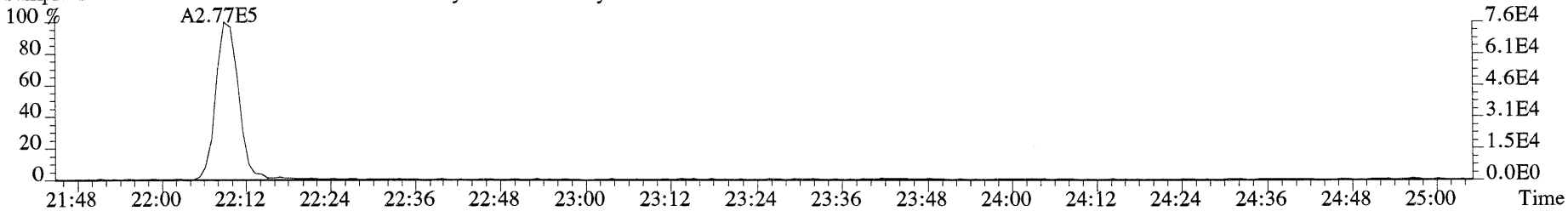
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



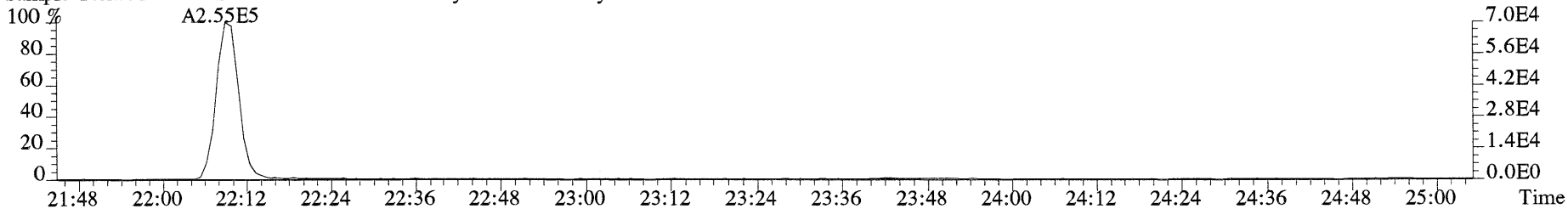
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



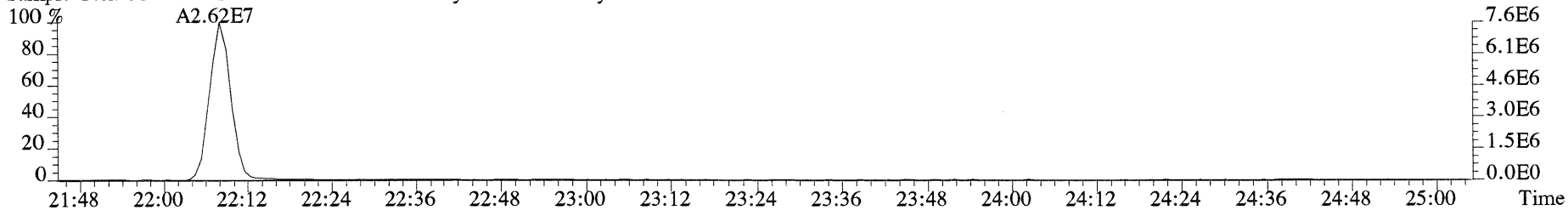
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



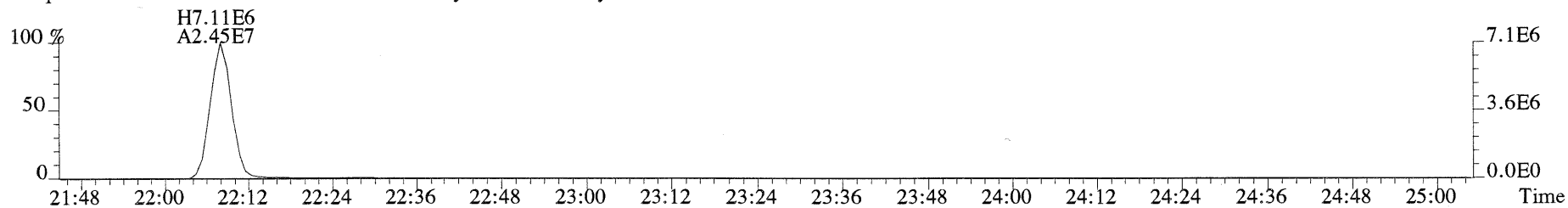
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



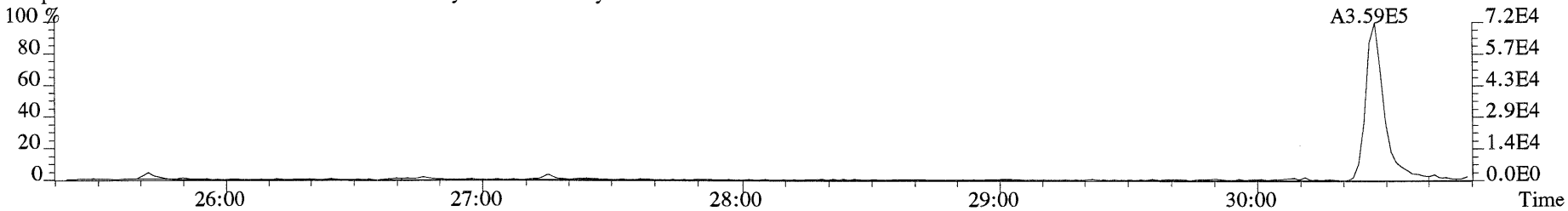
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



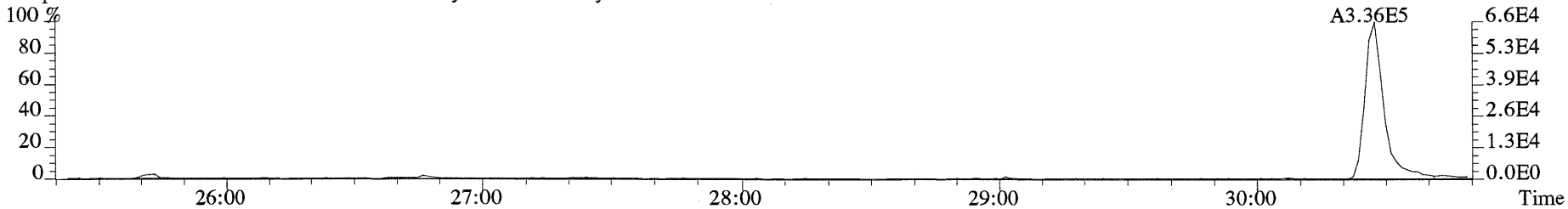
File:03APR19Z #1-520 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



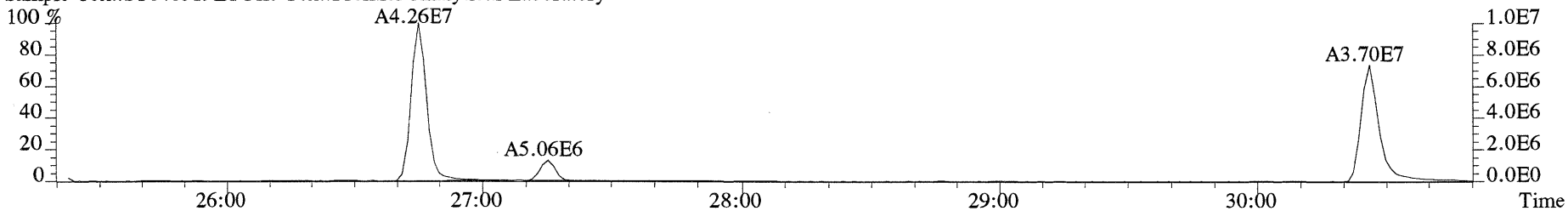
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



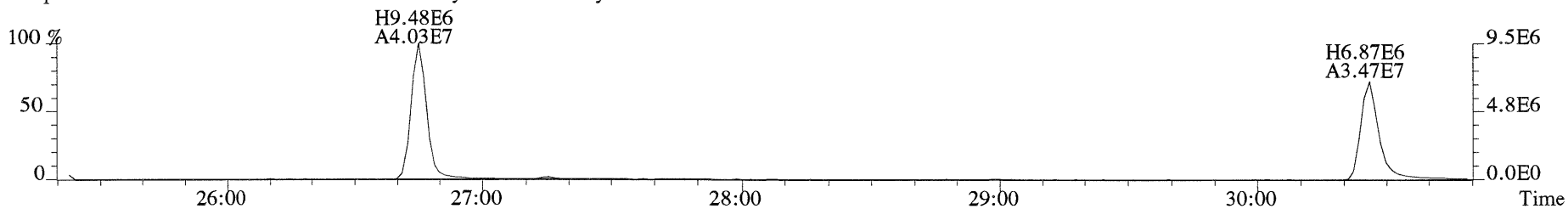
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



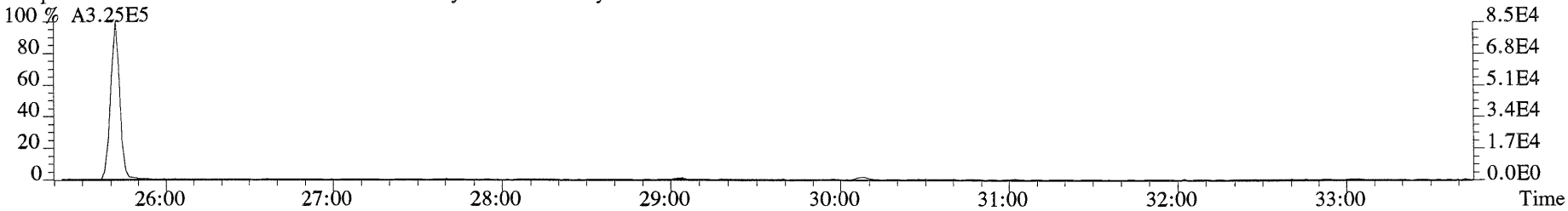
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



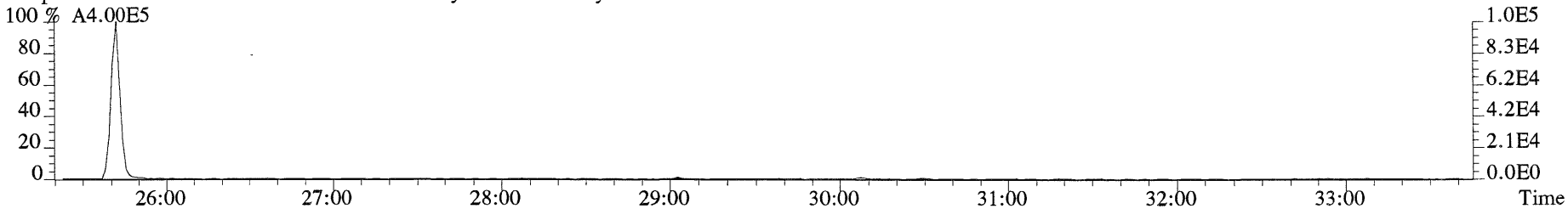
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



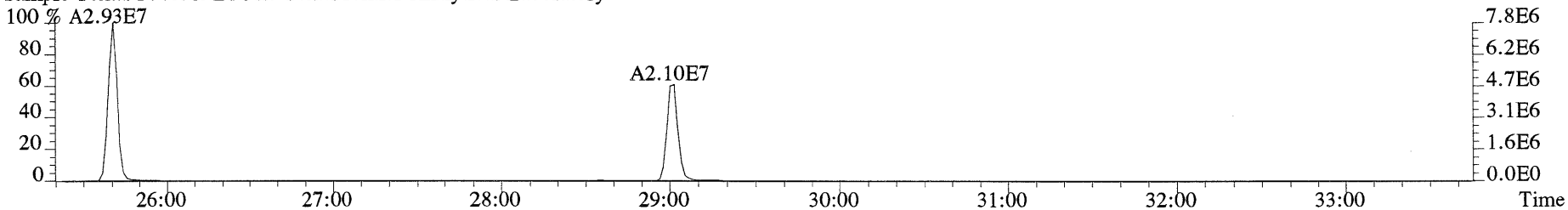
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



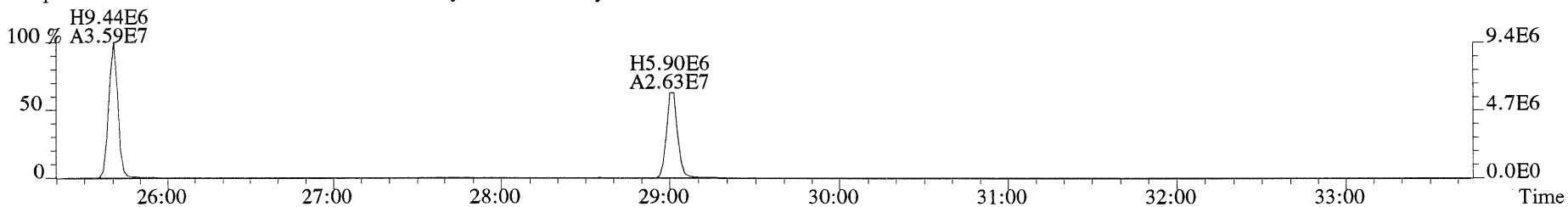
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



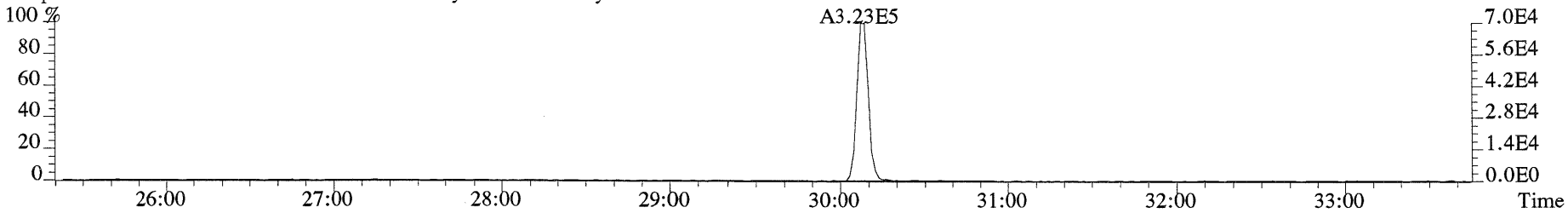
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



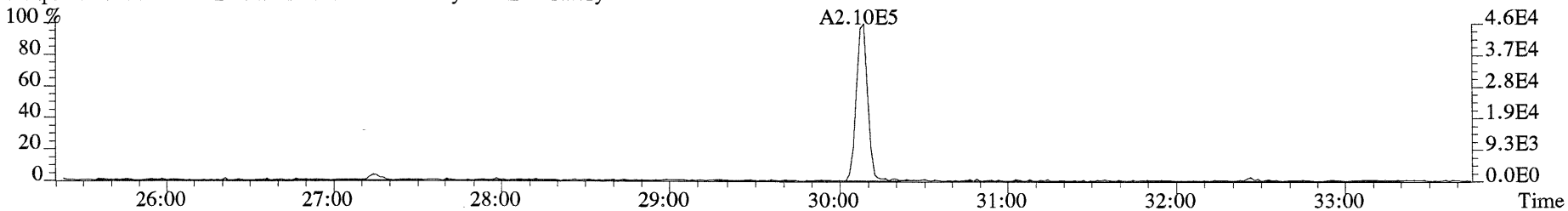
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



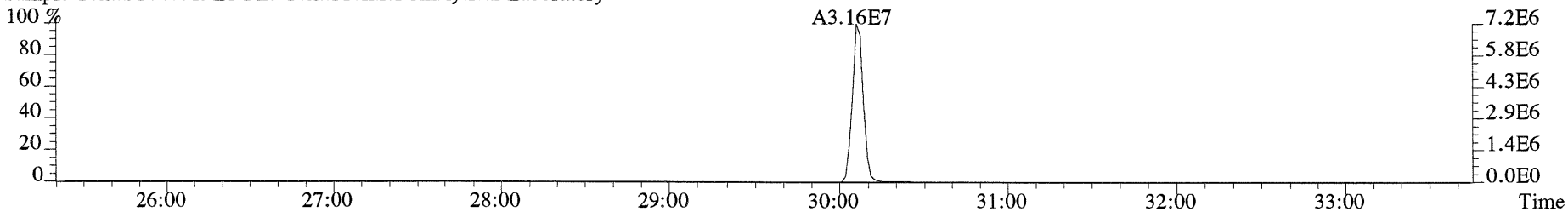
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



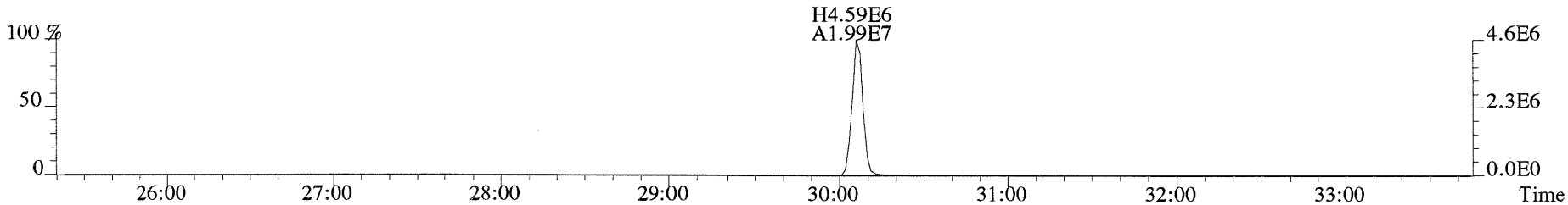
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



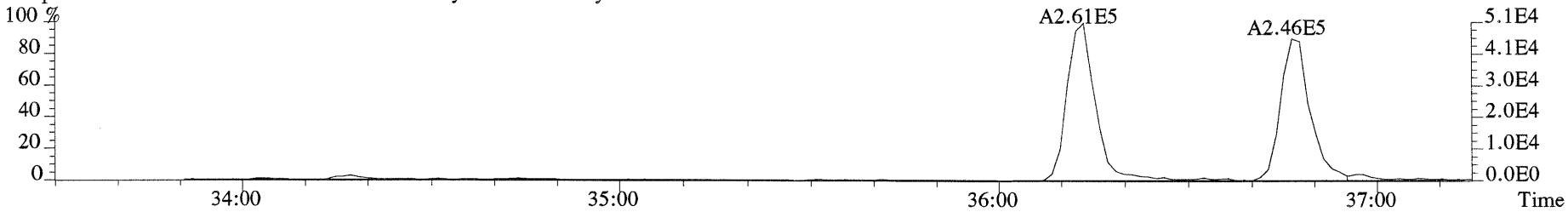
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



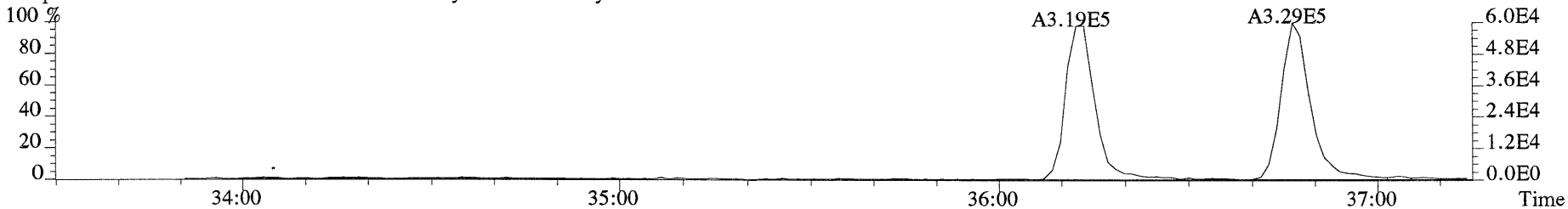
File:03APR19Z #1-401 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



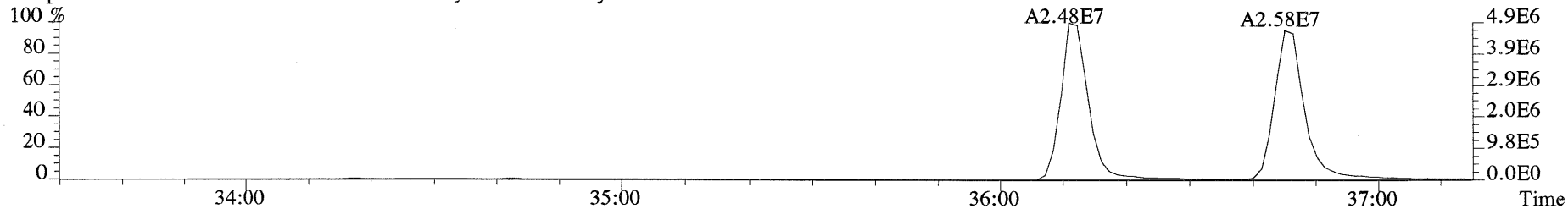
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



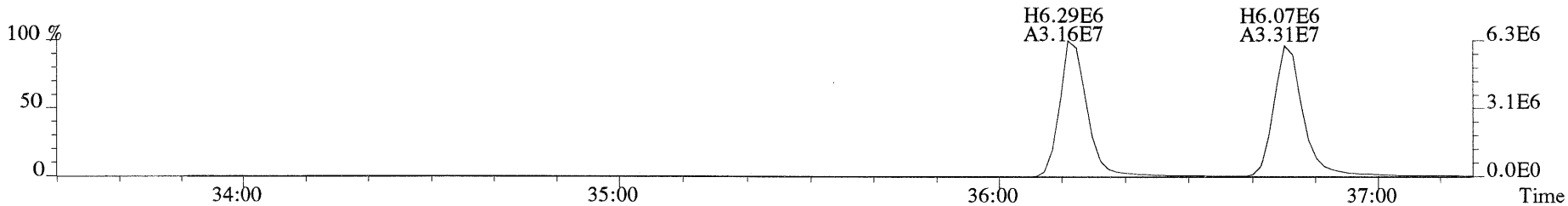
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



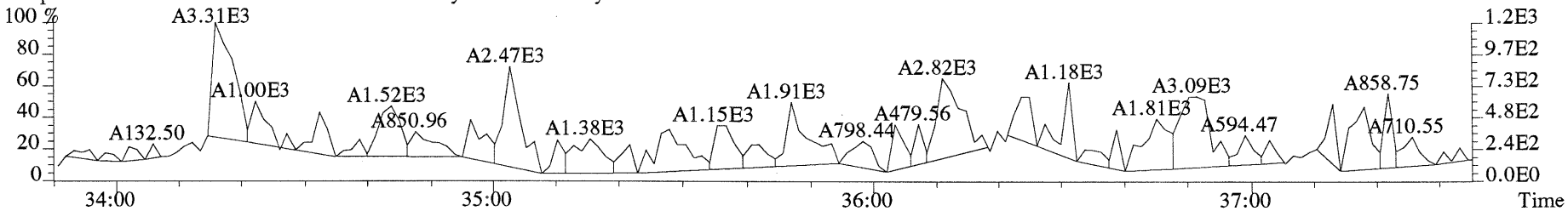
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



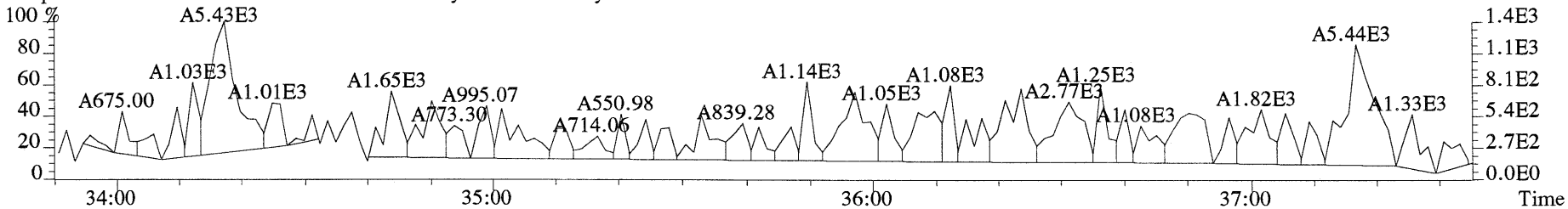
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



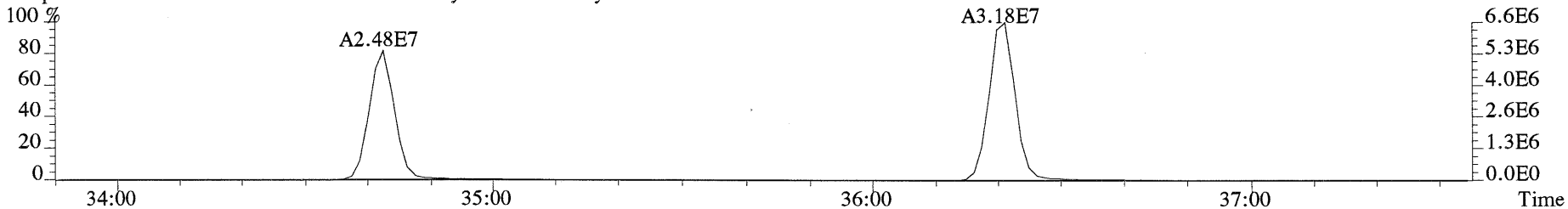
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



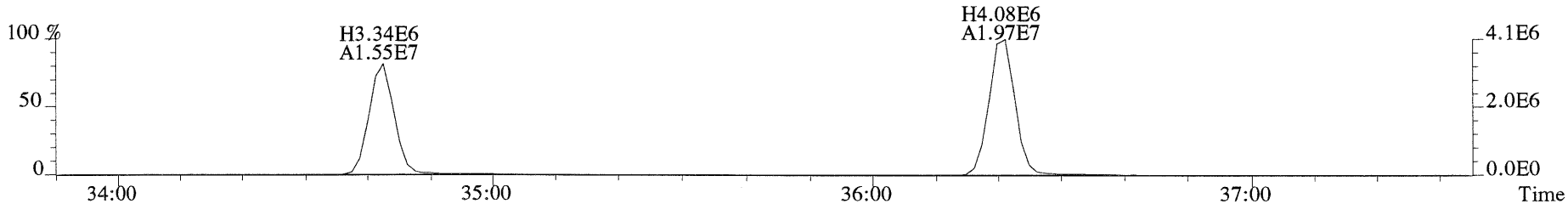
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



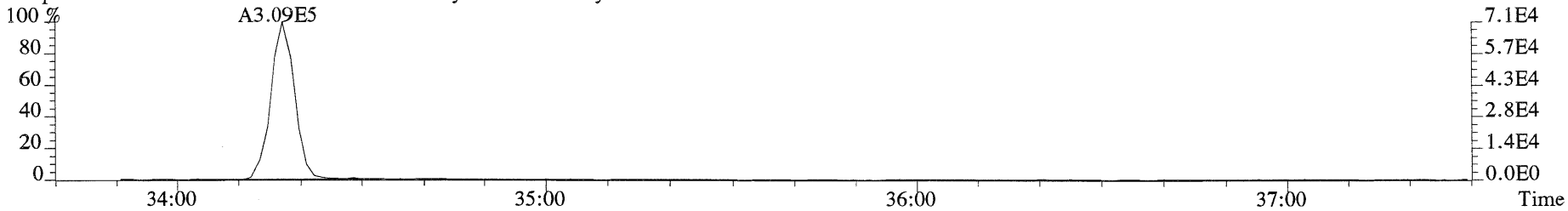
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



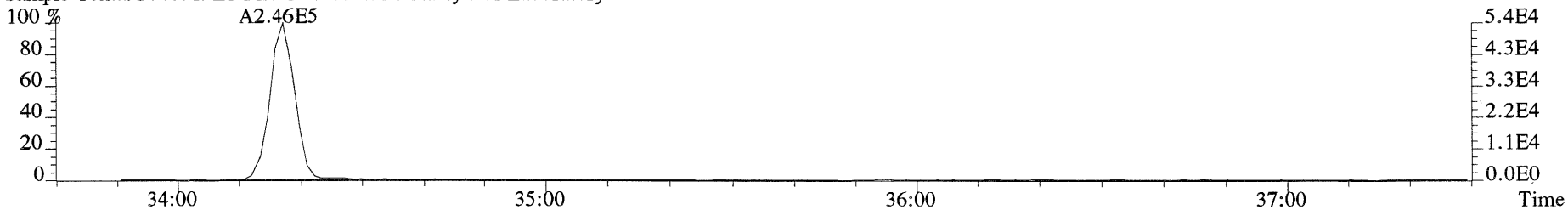
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



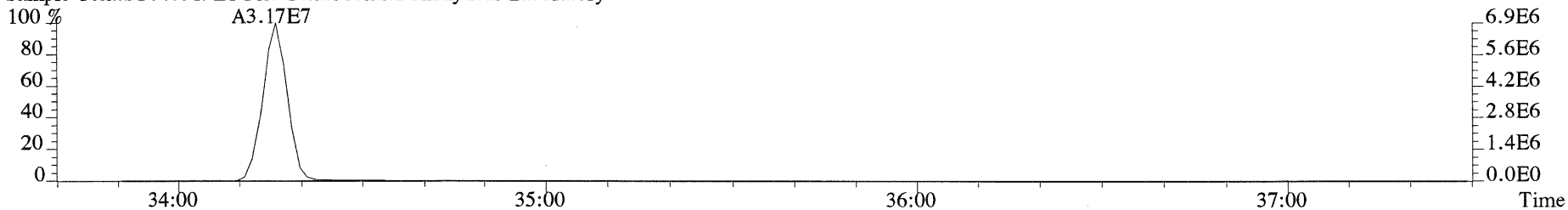
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



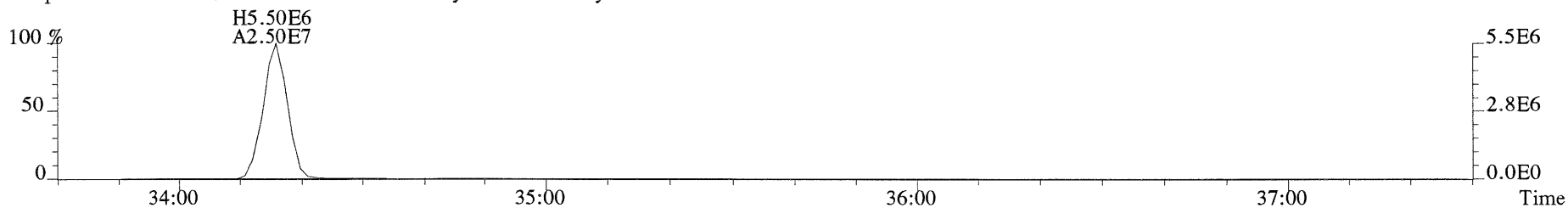
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



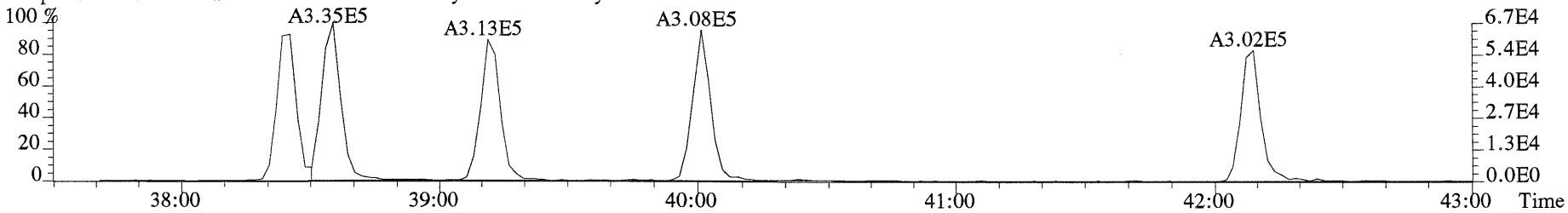
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



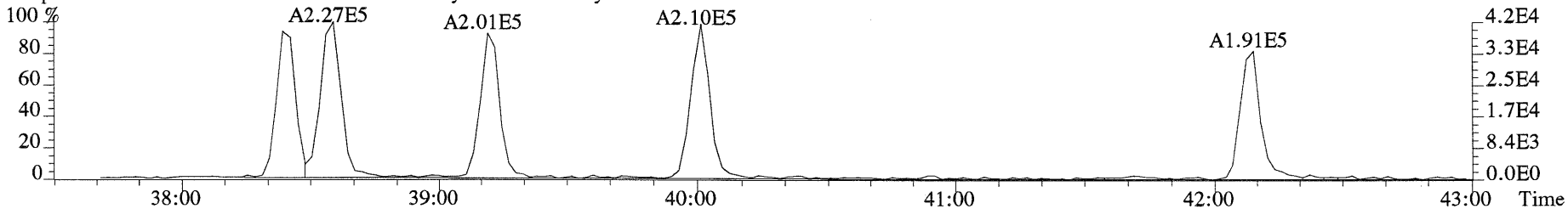
File:03APR19Z #1-181 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



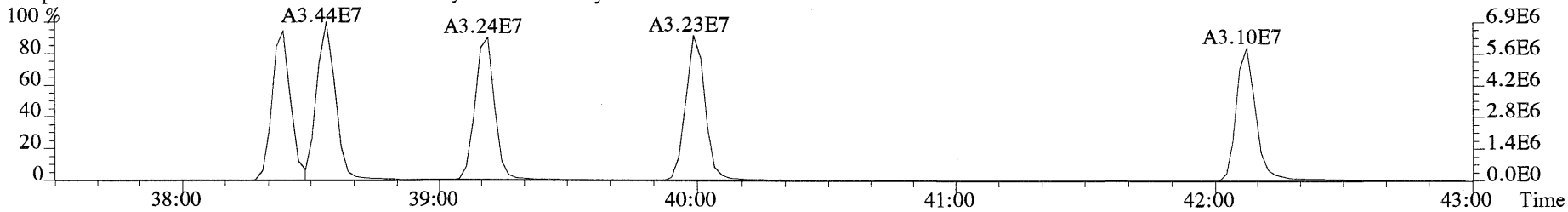
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



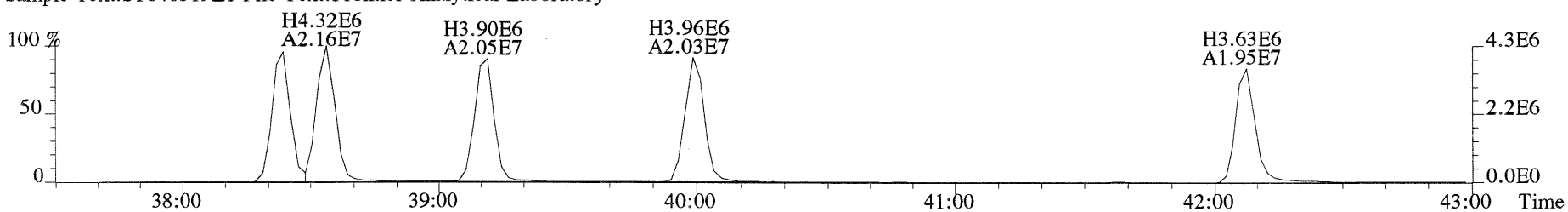
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



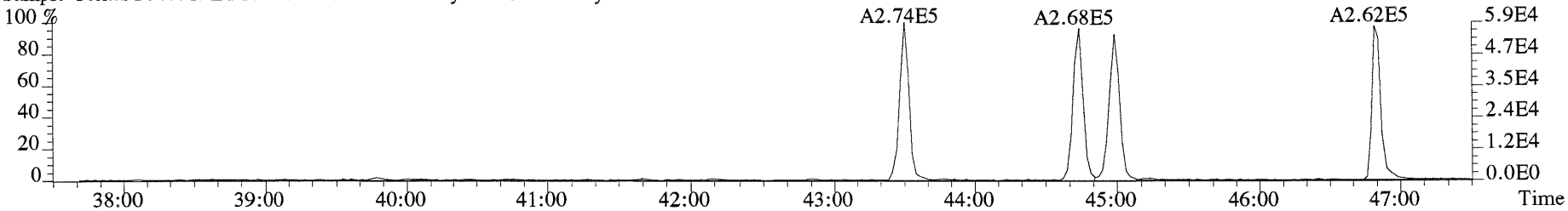
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



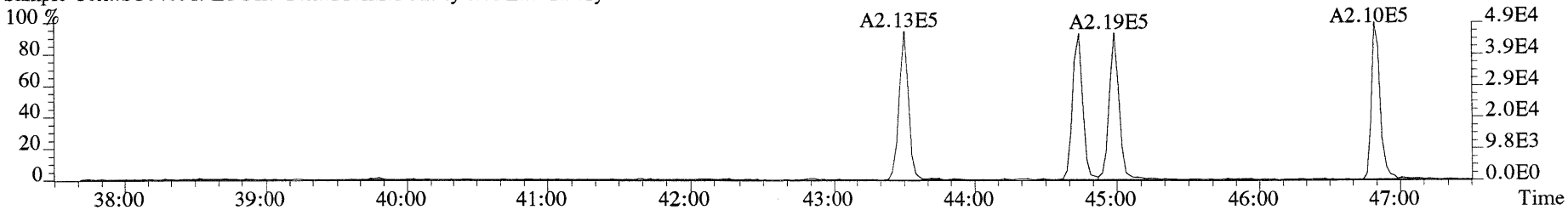
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



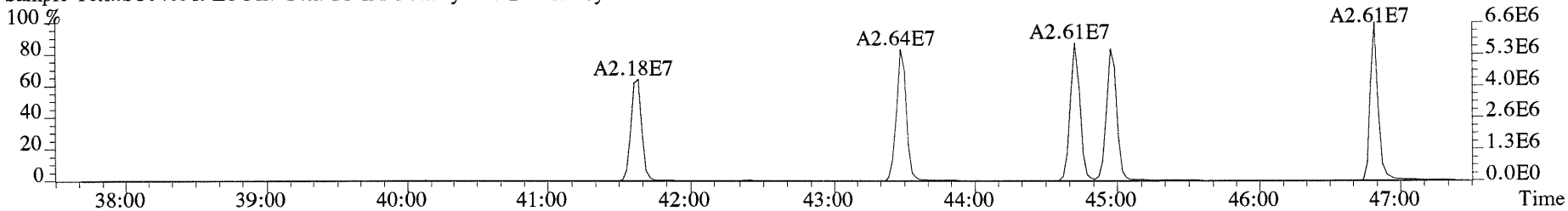
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



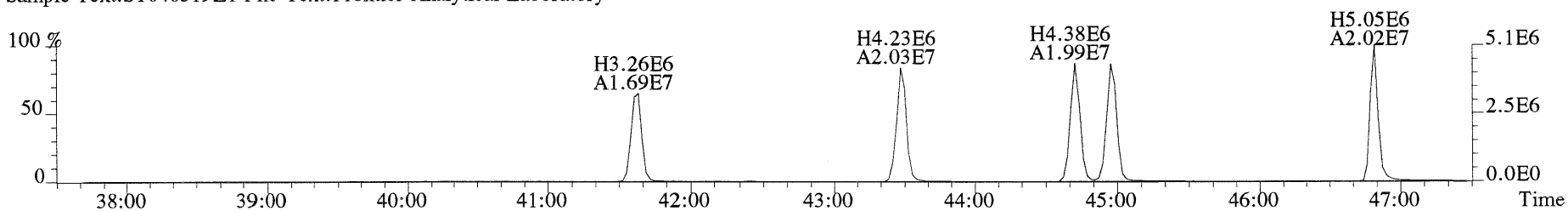
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



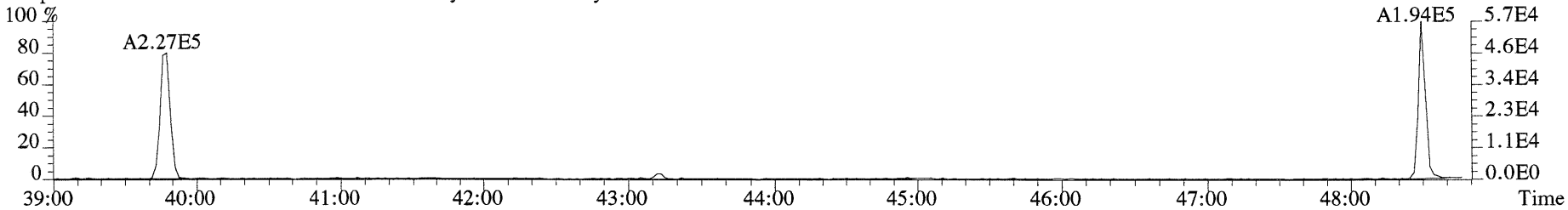
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



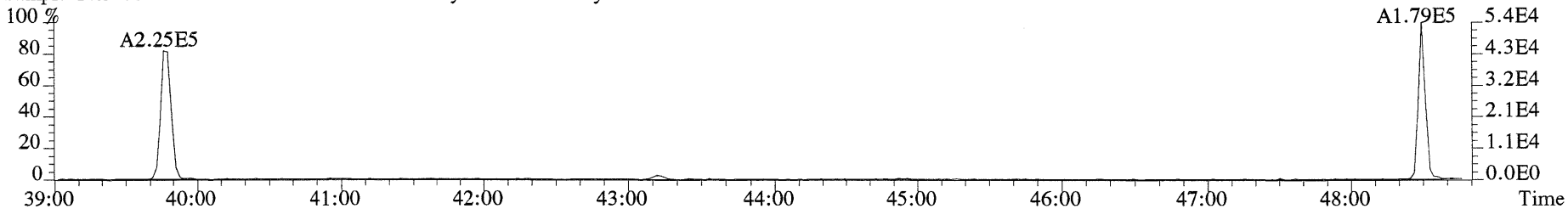
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



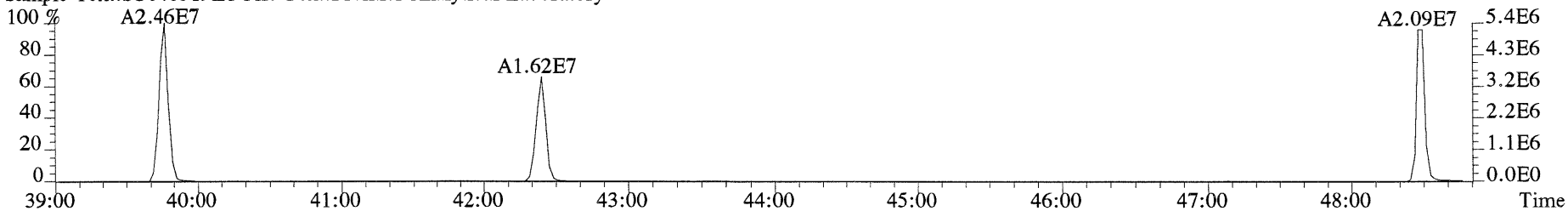
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



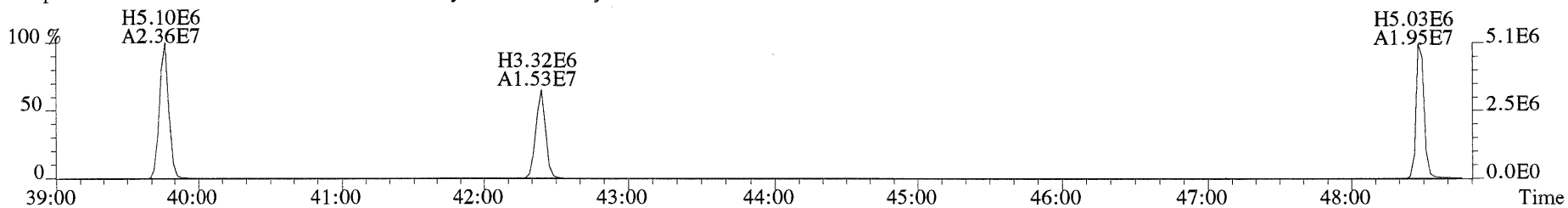
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



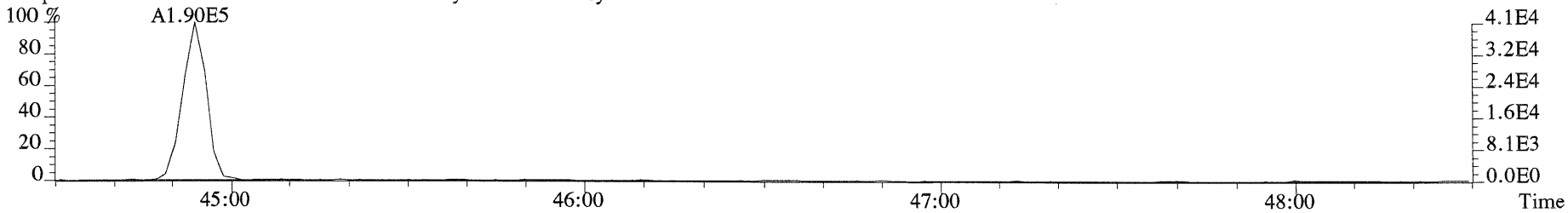
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



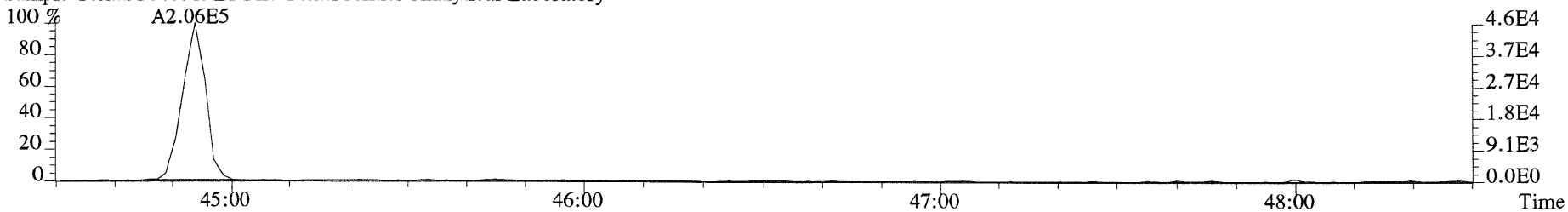
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



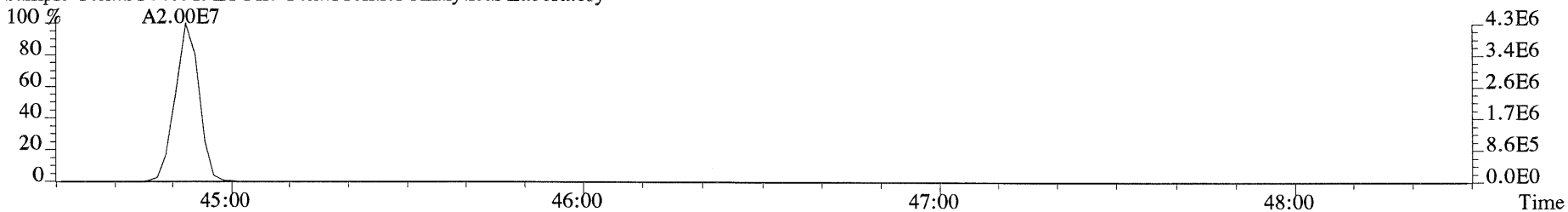
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



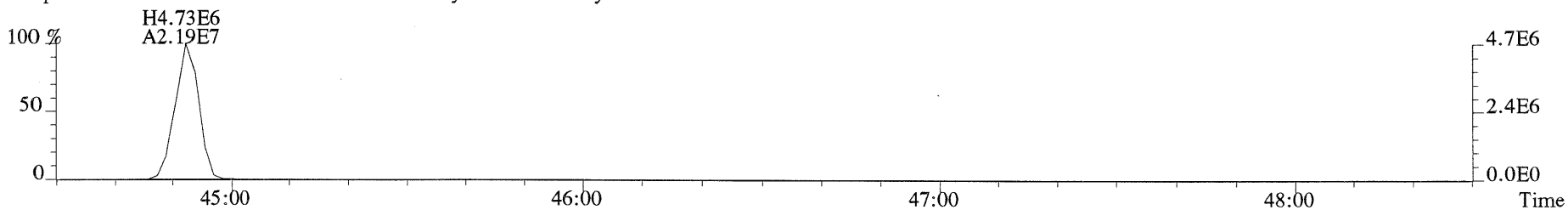
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



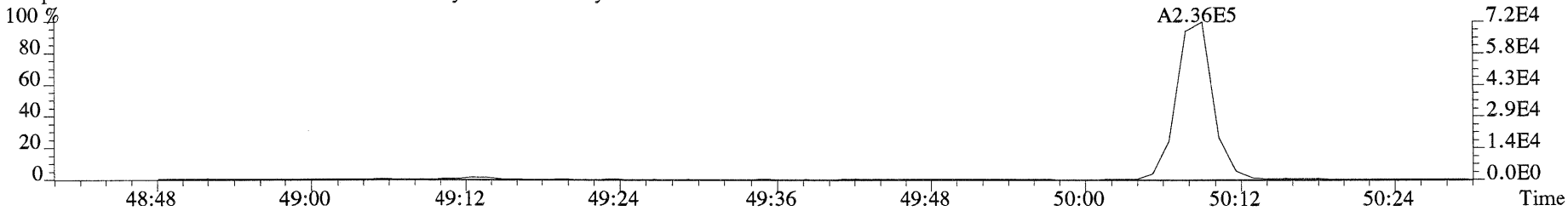
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



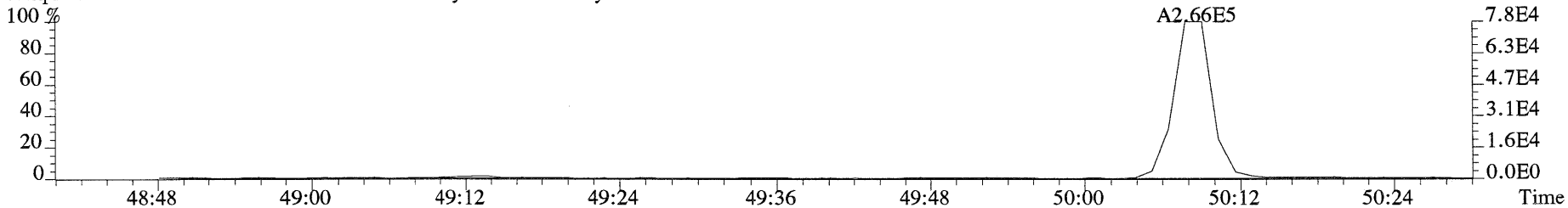
File:03APR19Z #1-405 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



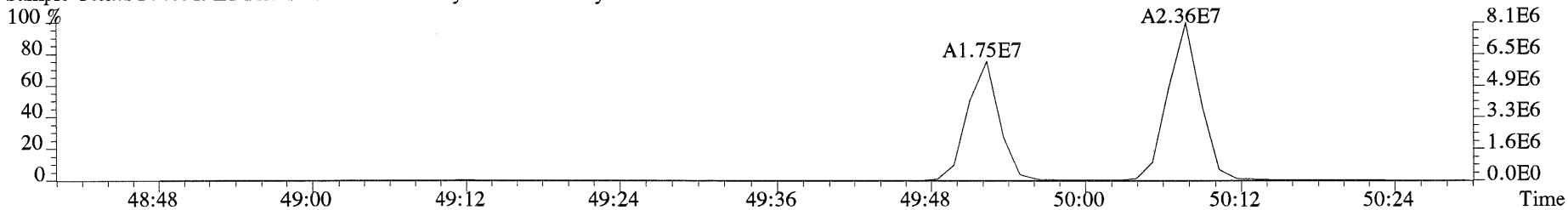
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



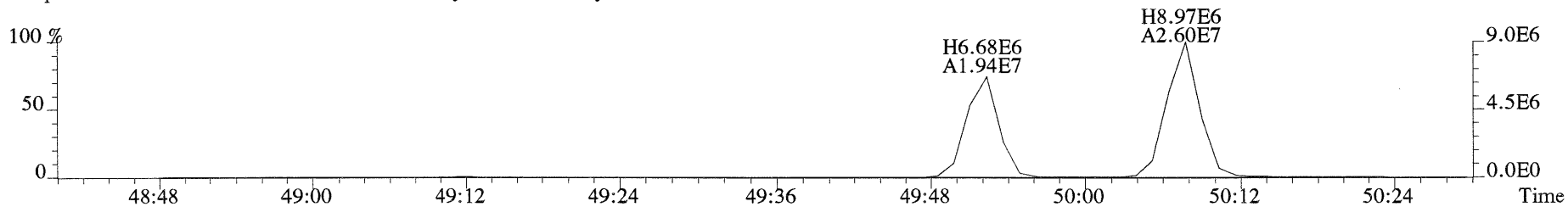
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



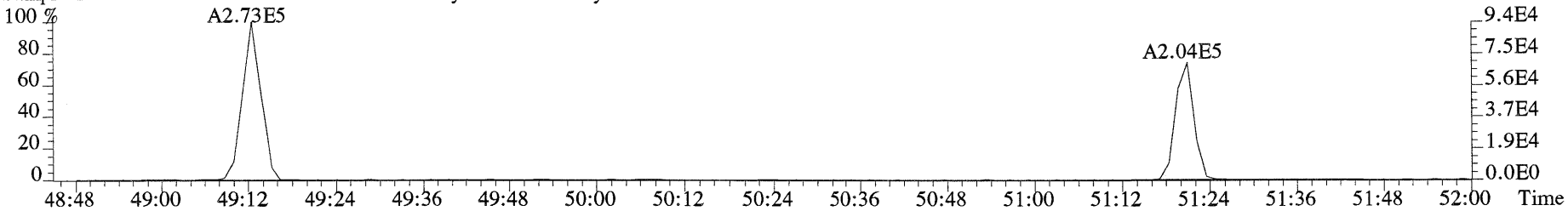
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



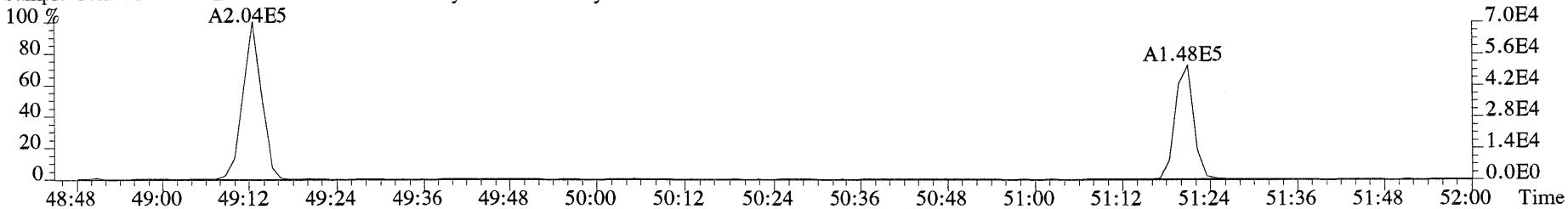
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



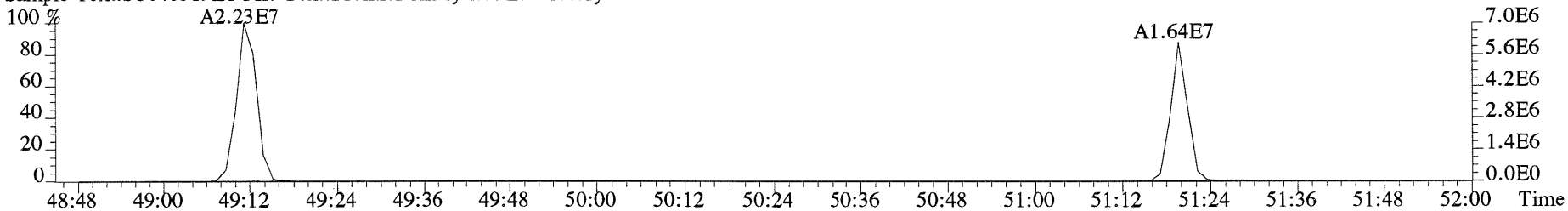
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



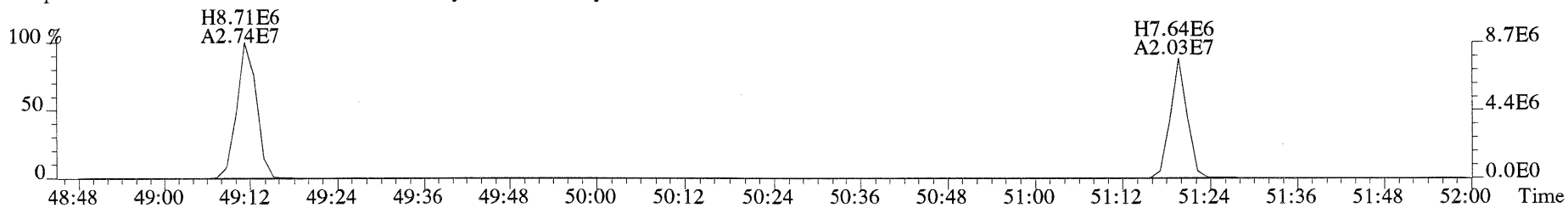
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



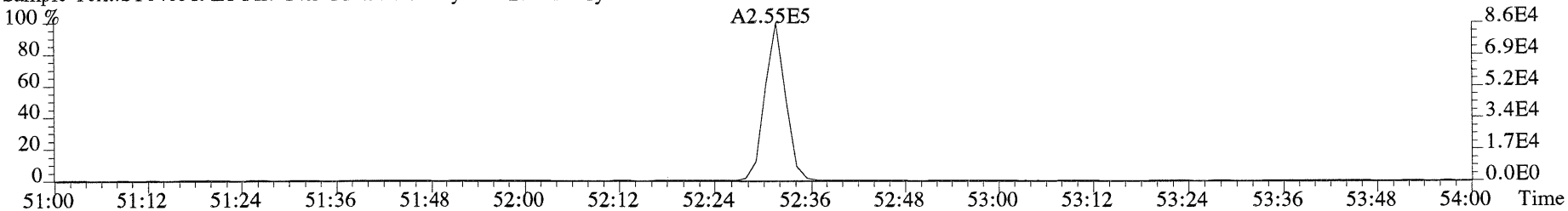
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



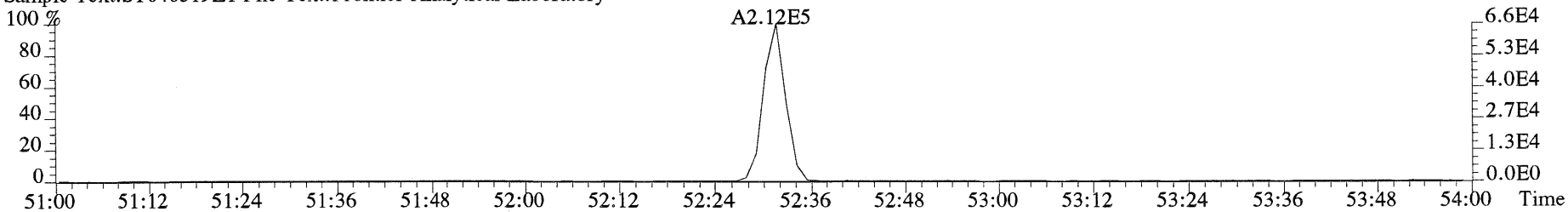
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



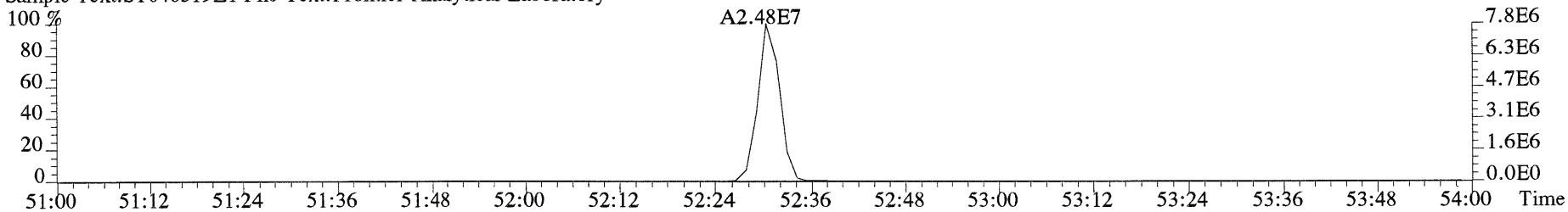
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



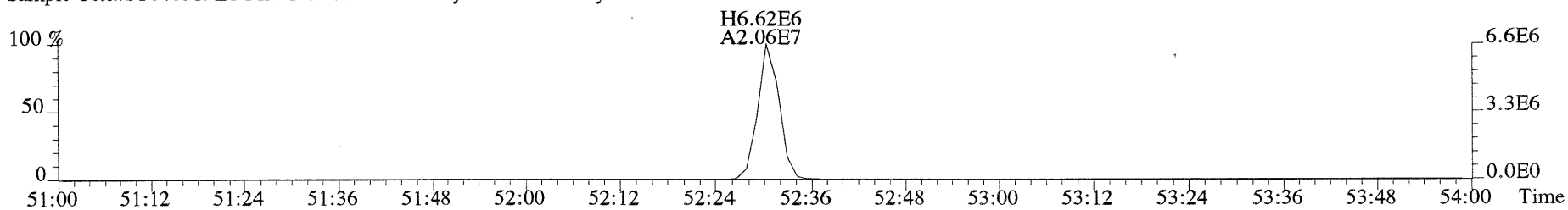
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



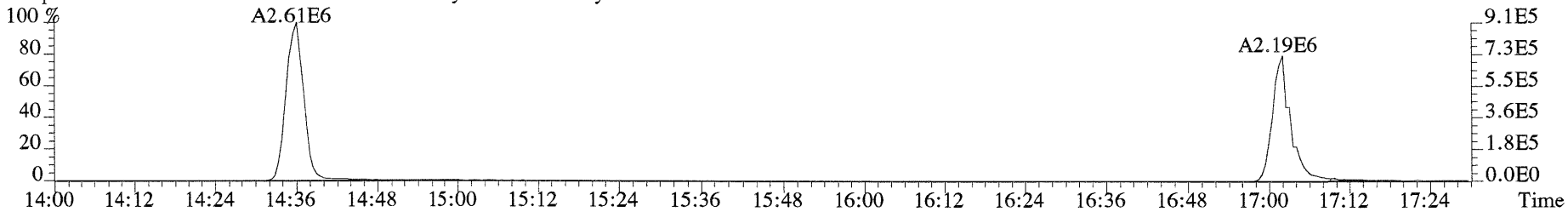
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



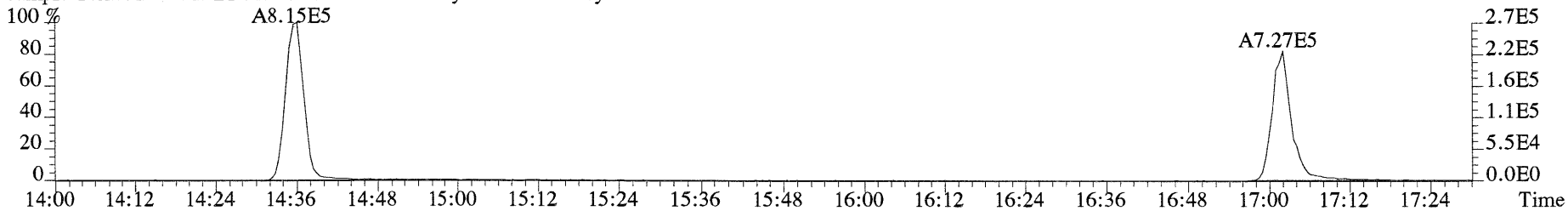
File:03APR19Z #1-314 Acq: 3-APR-2019 08:40:14 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z1 File Text:Frontier Analytical Laboratory



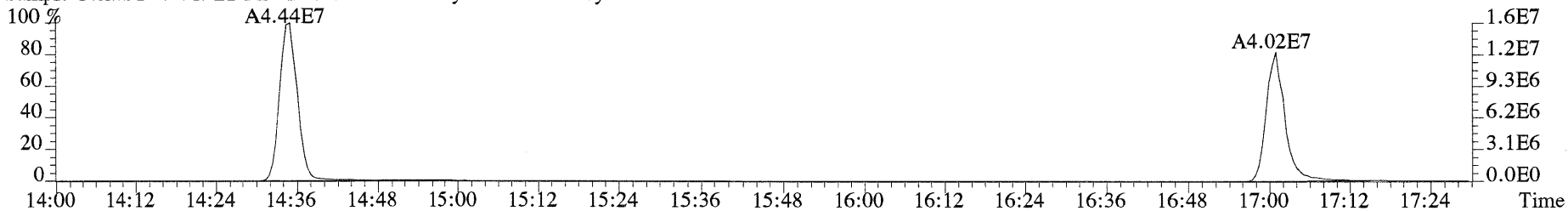
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



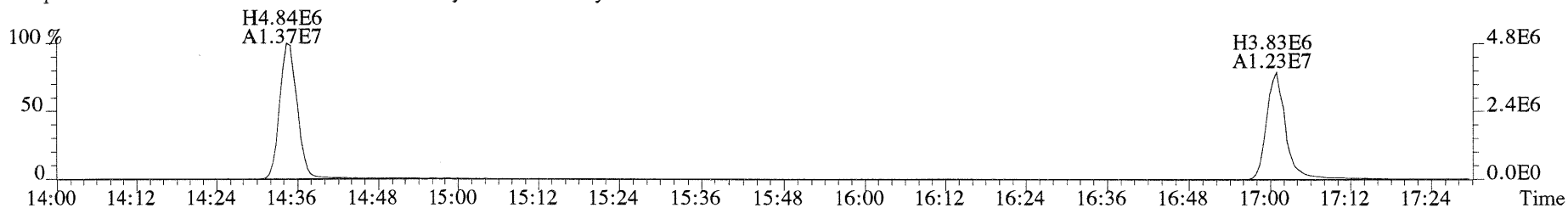
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



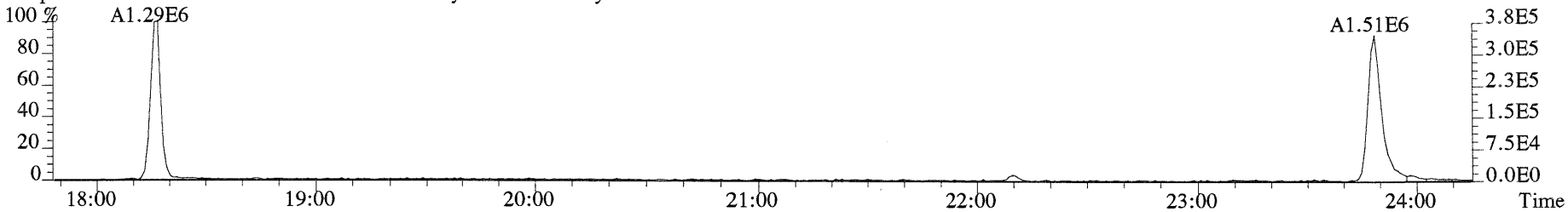
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



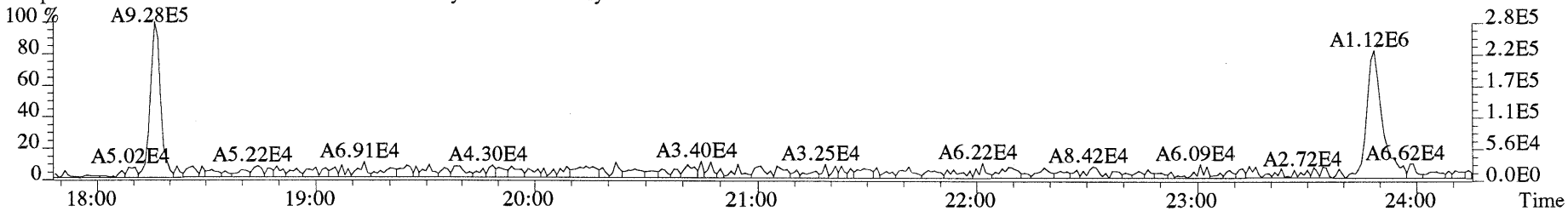
File:03APR19Z #1-783 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



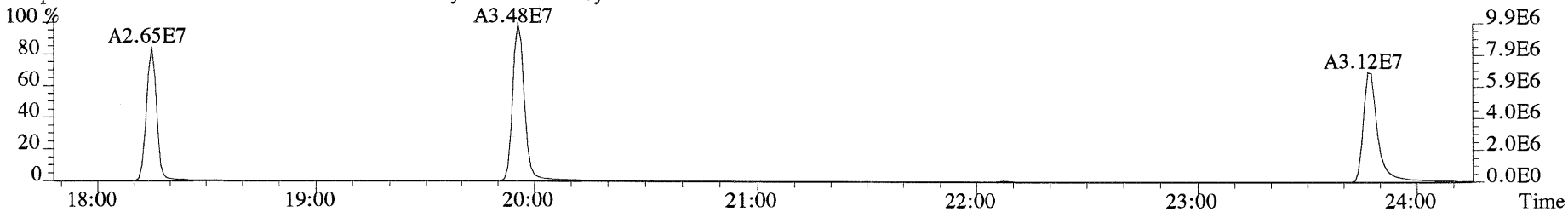
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



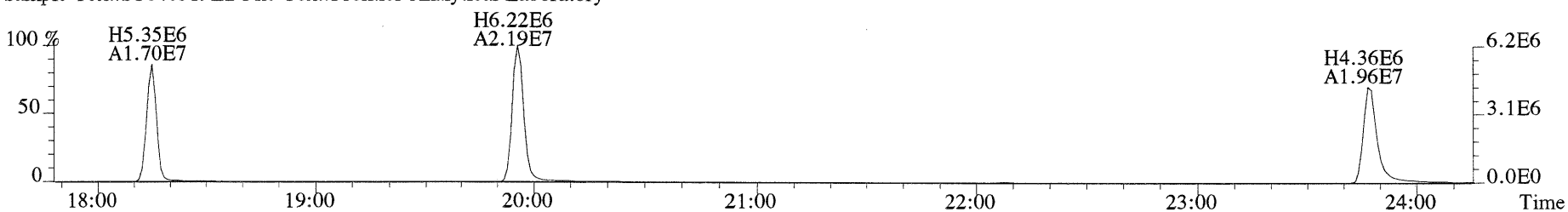
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



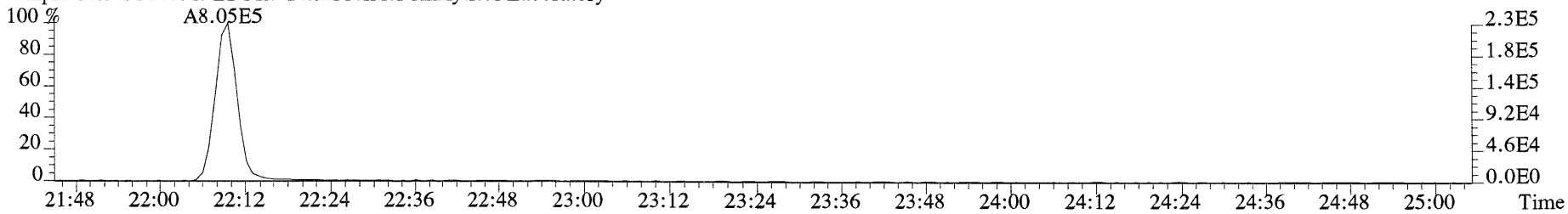
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



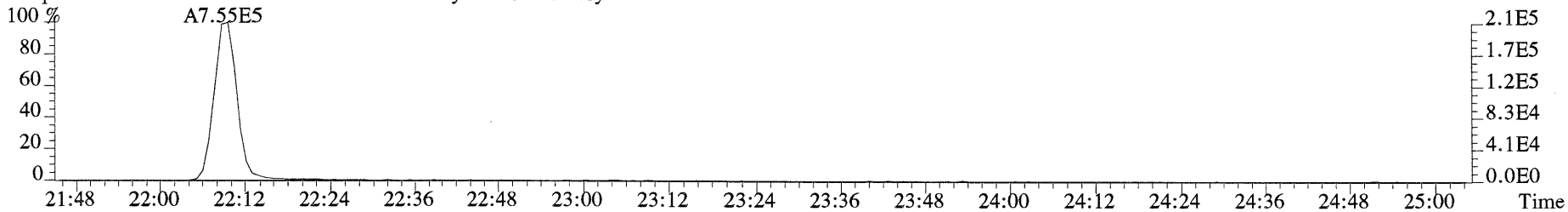
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



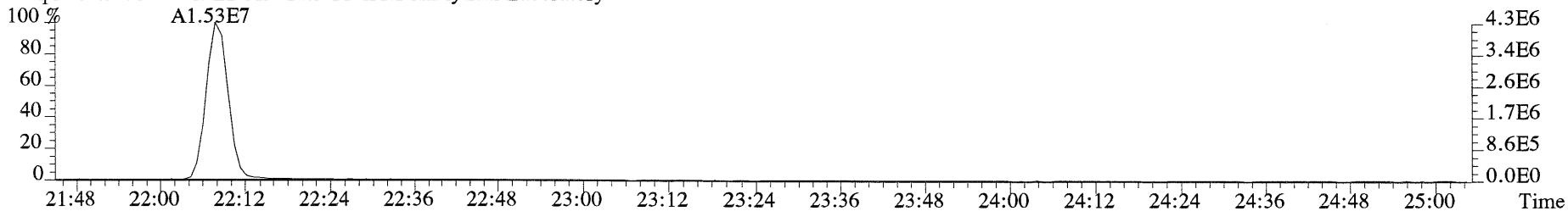
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



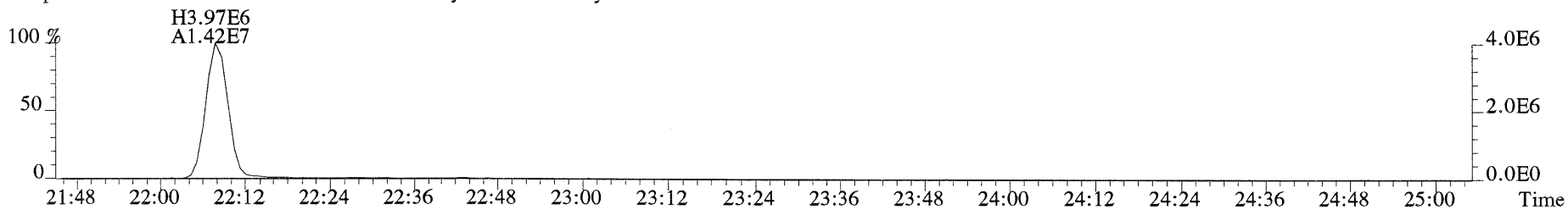
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



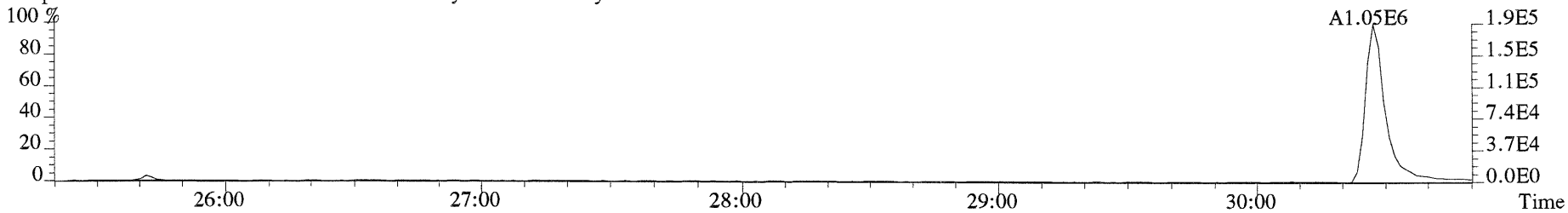
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



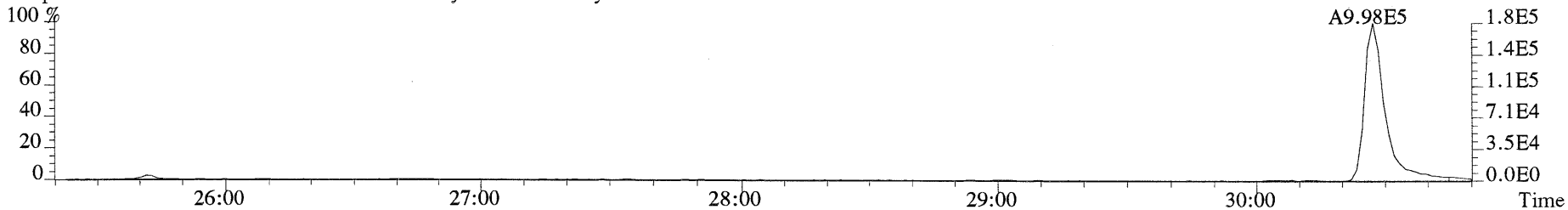
File:03APR19Z #1-520 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



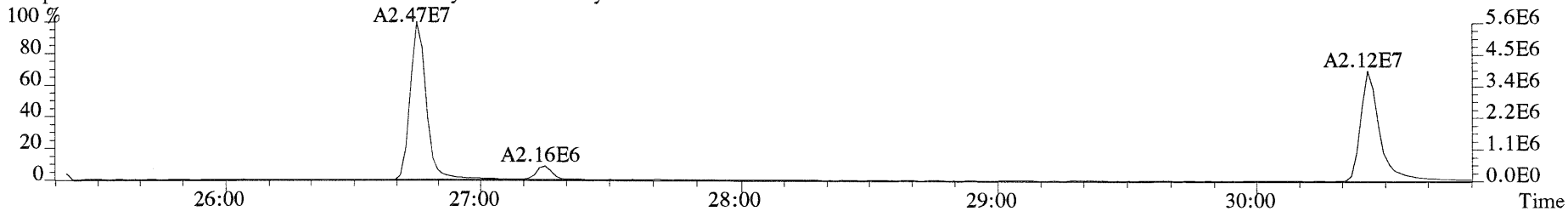
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



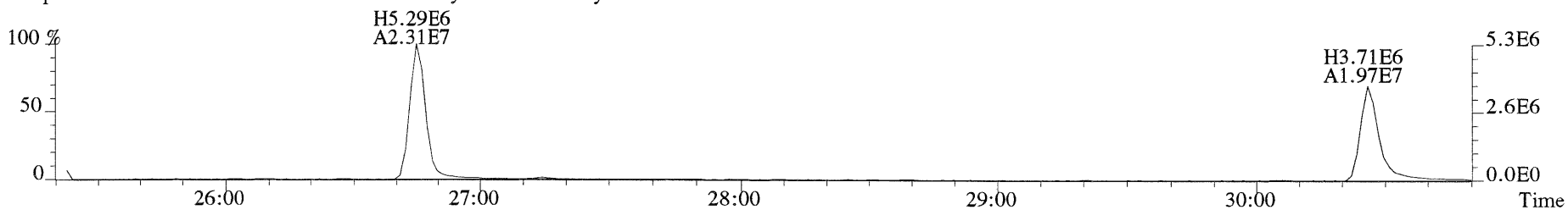
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



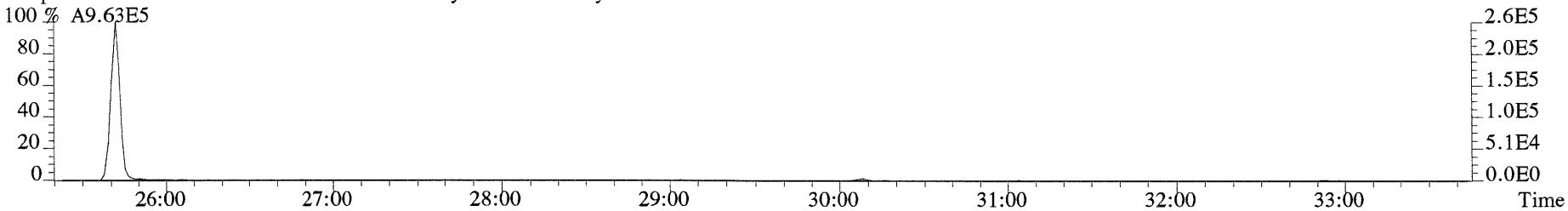
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



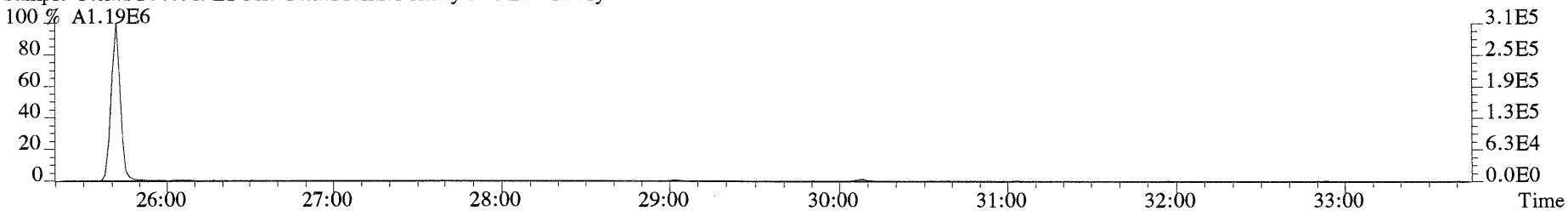
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



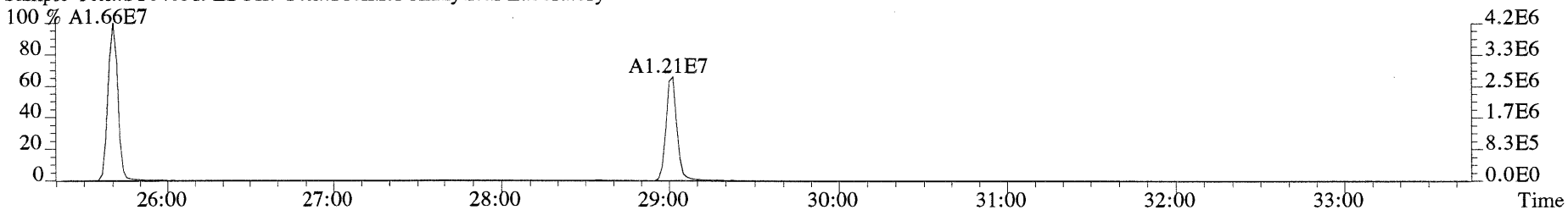
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



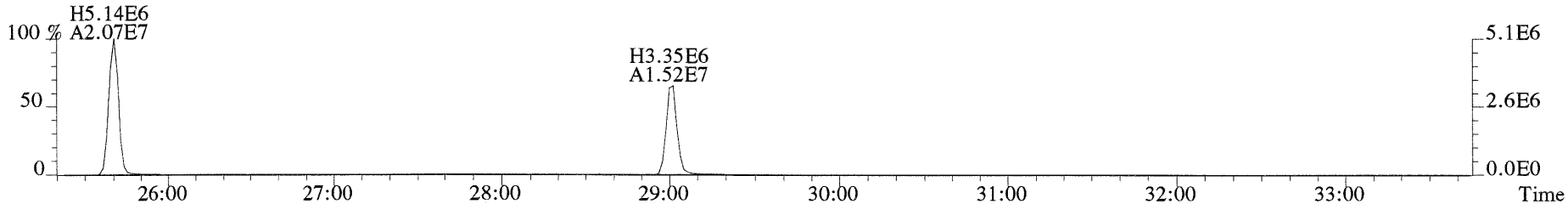
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



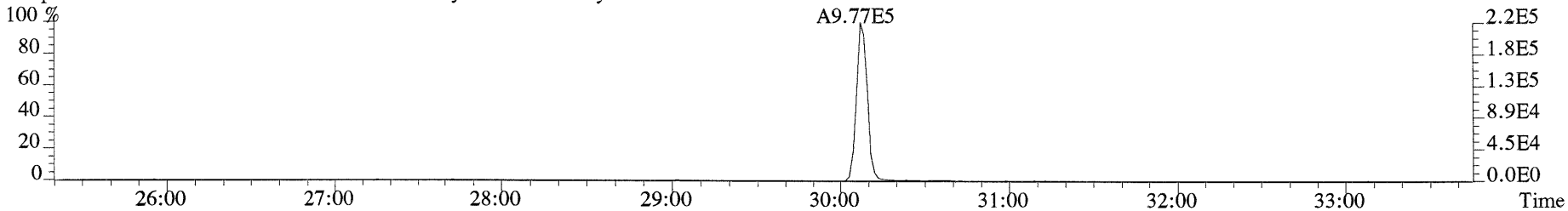
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



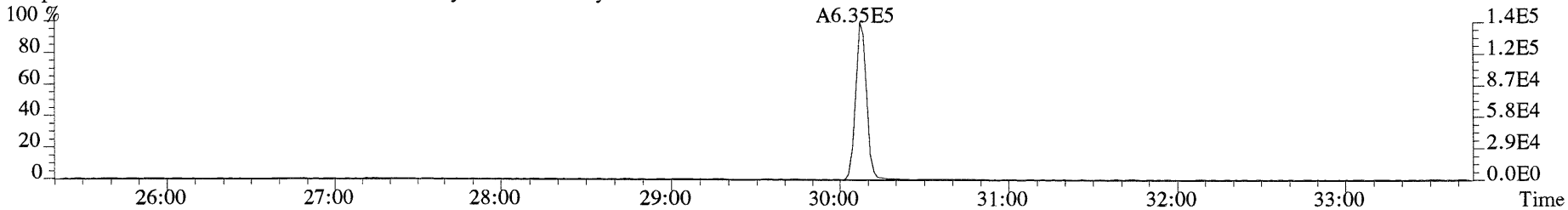
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



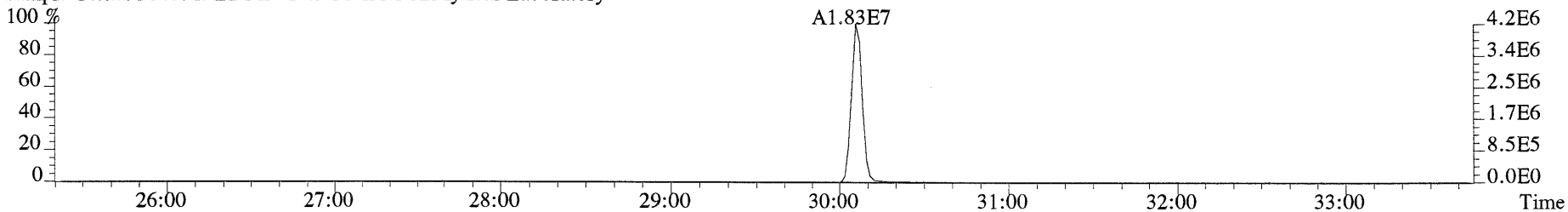
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



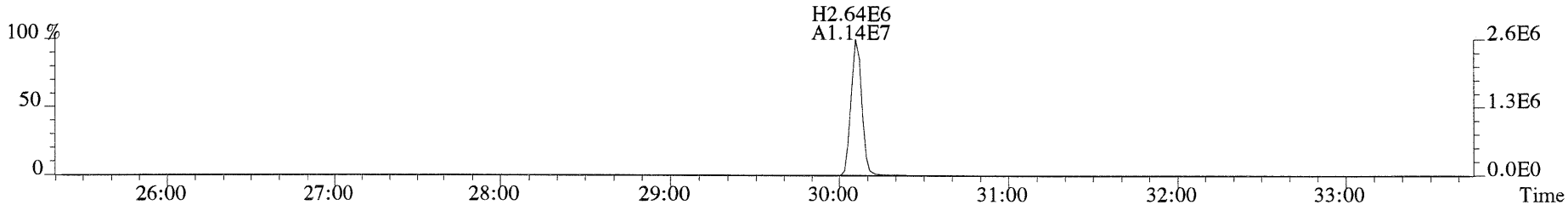
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



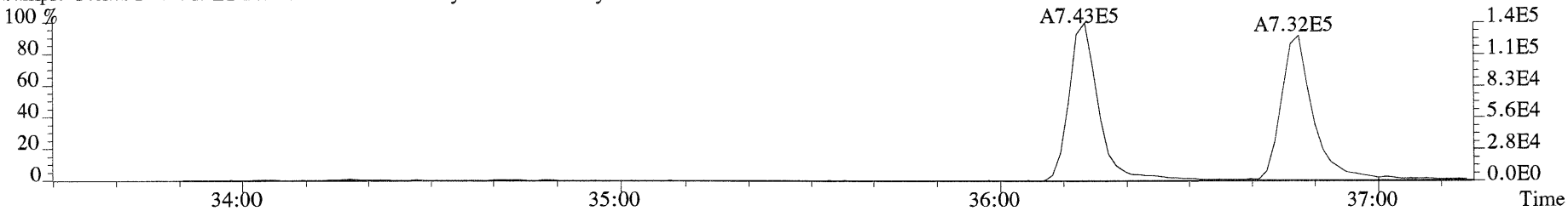
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



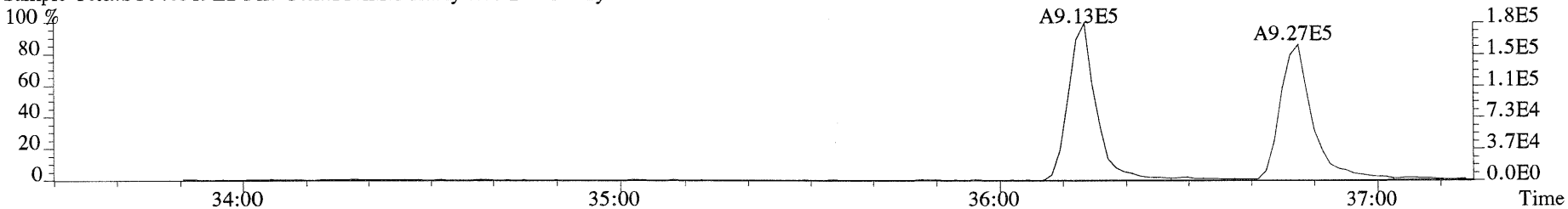
File:03APR19Z #1-401 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



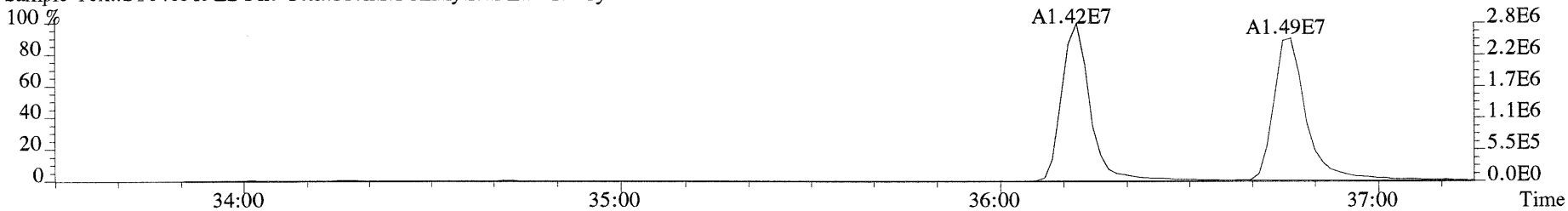
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



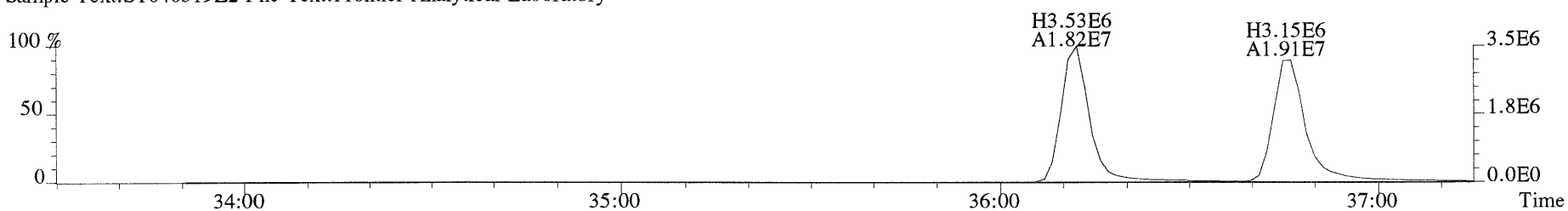
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



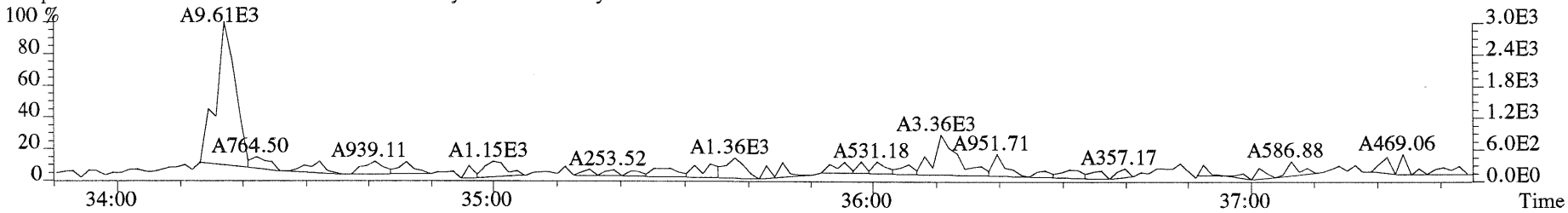
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



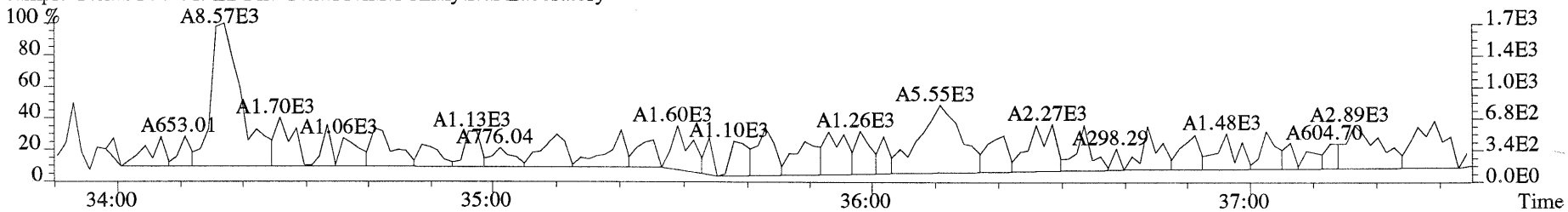
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



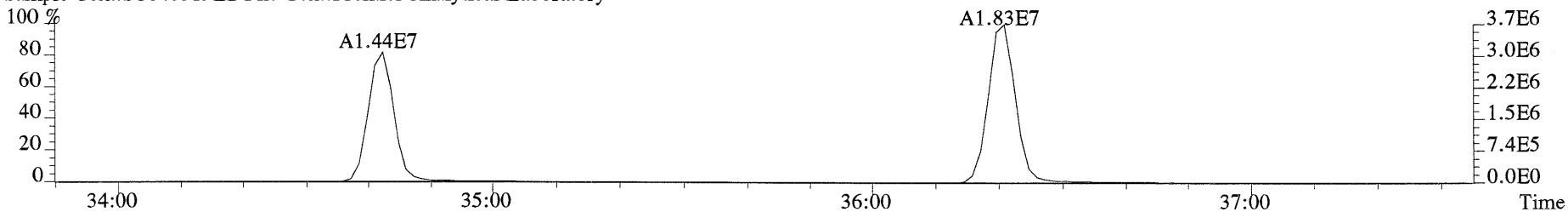
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



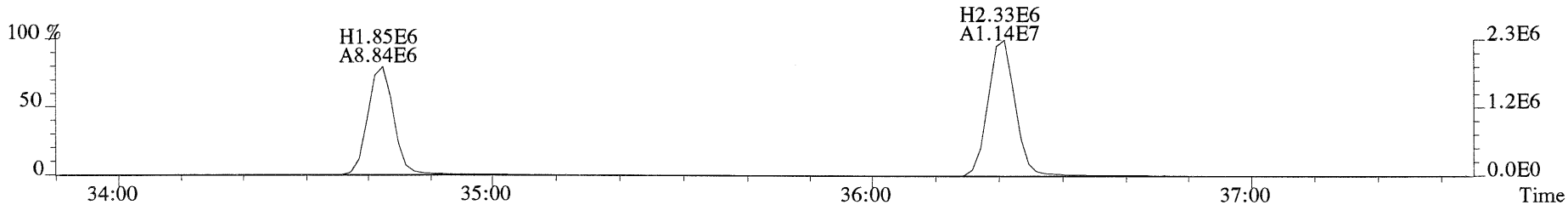
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



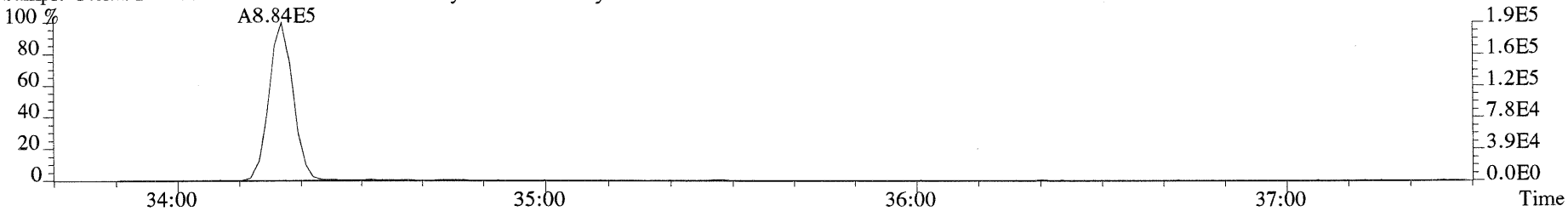
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



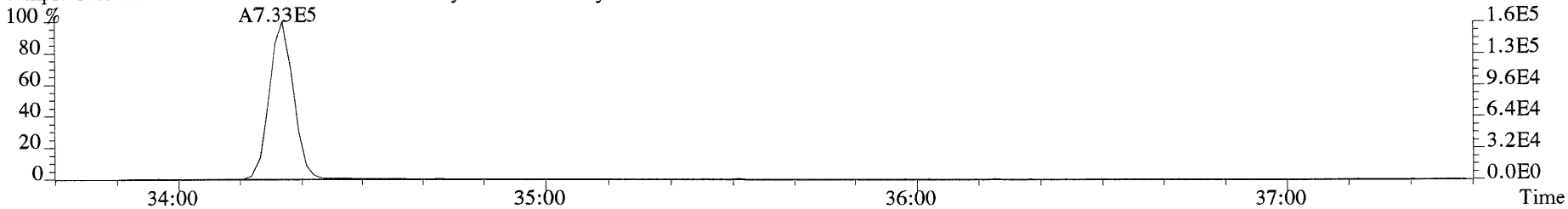
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



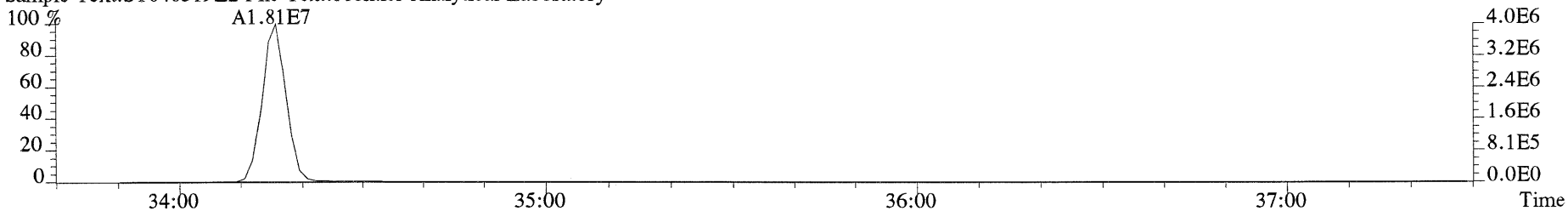
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



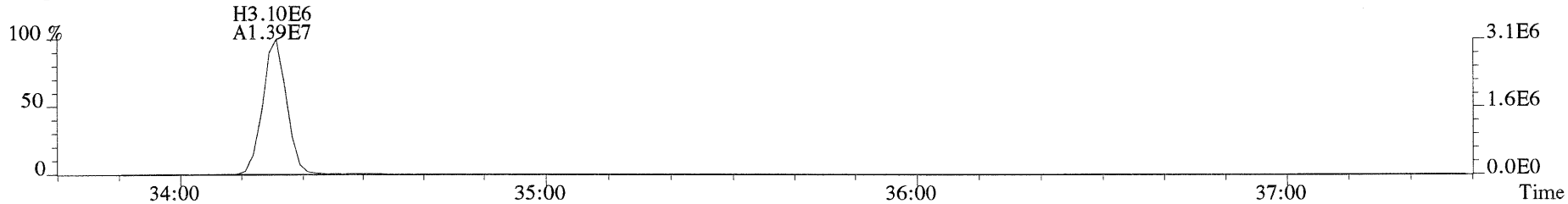
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



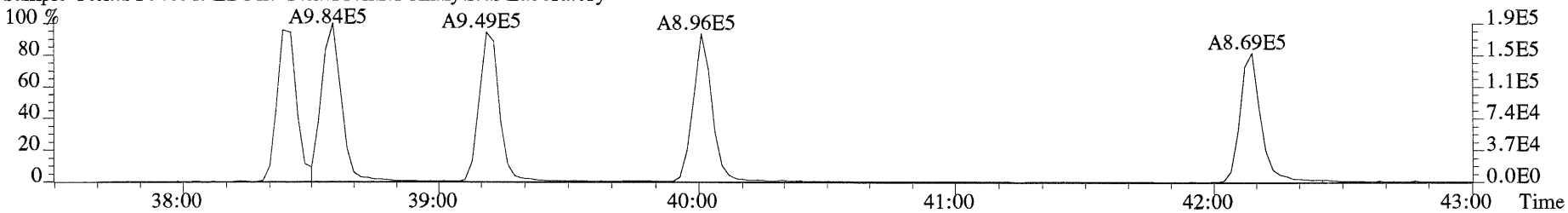
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



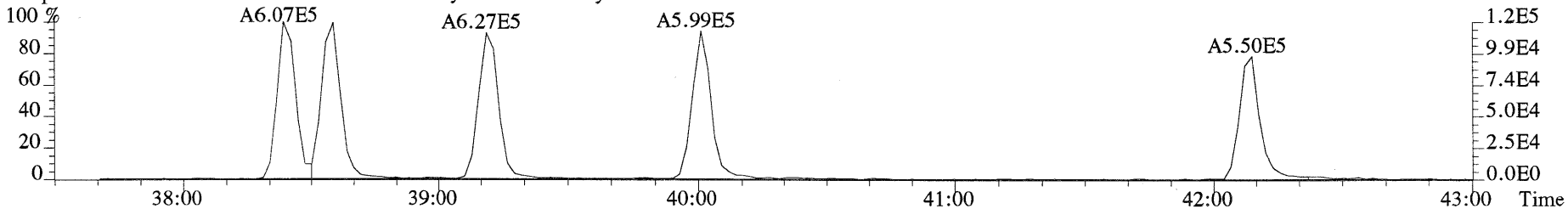
File:03APR19Z #1-181 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



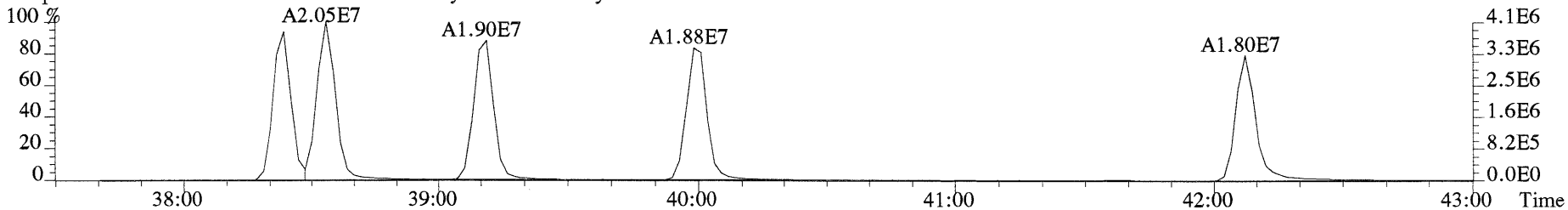
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



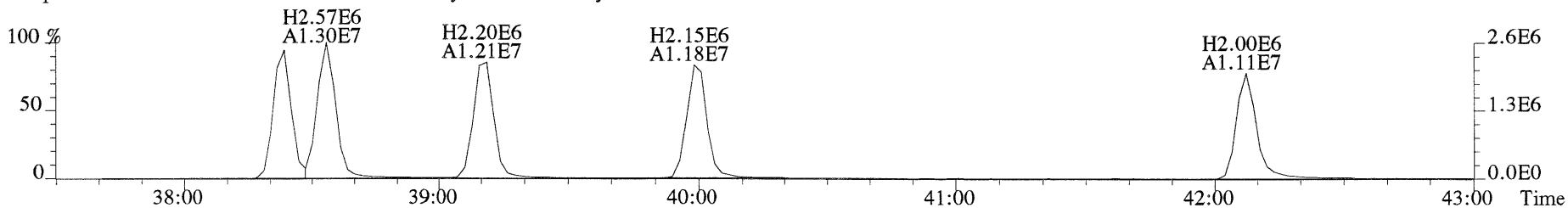
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



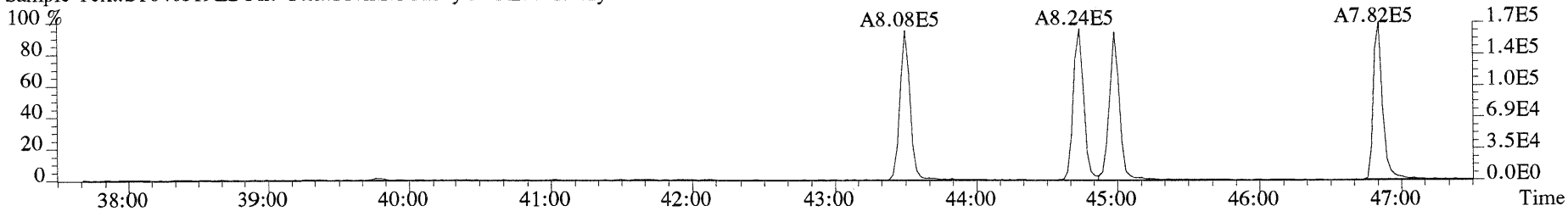
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



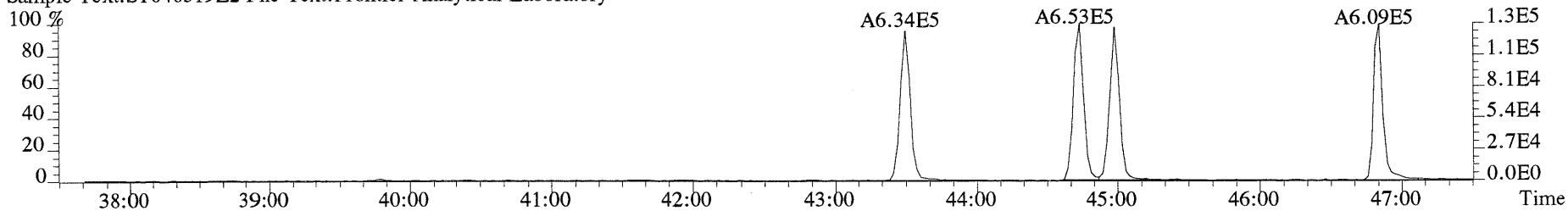
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



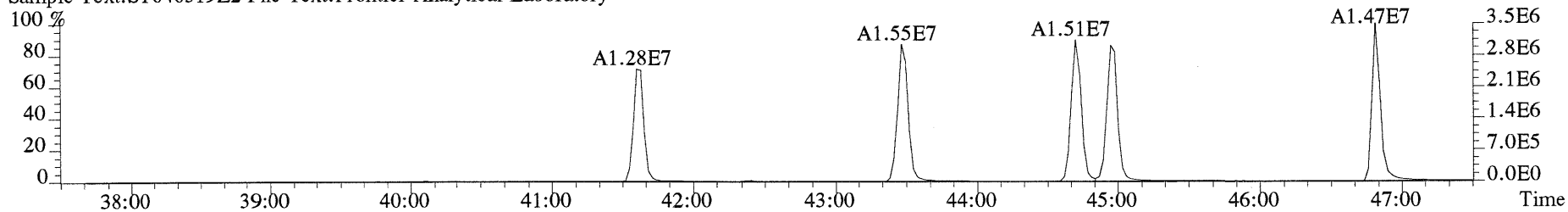
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



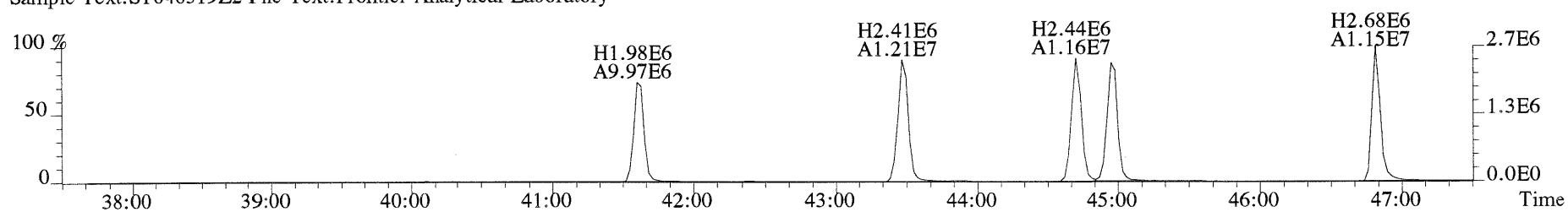
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



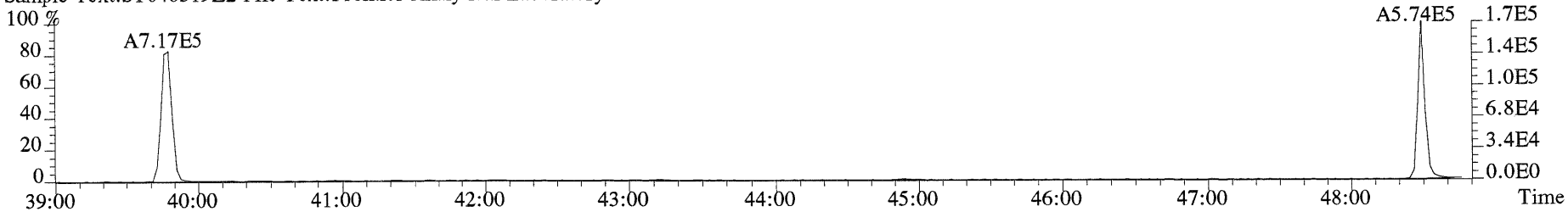
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



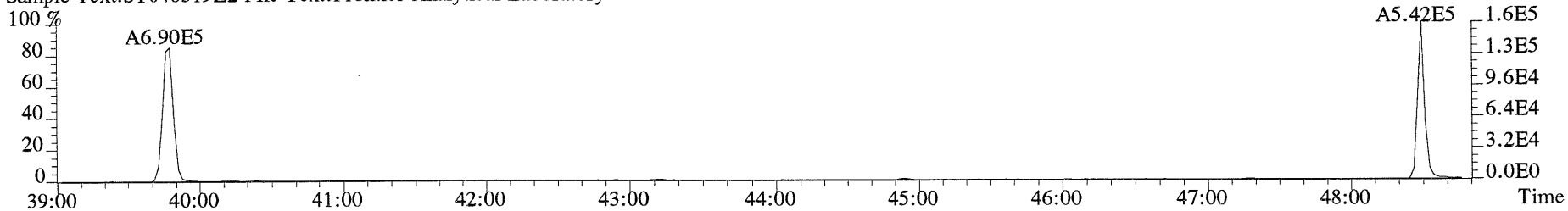
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



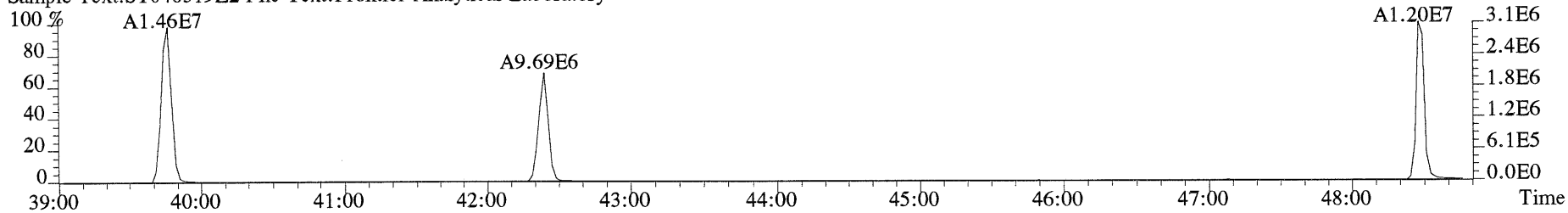
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



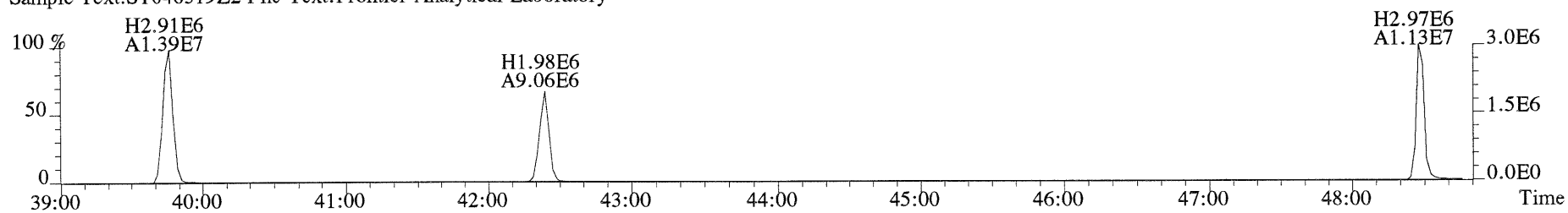
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



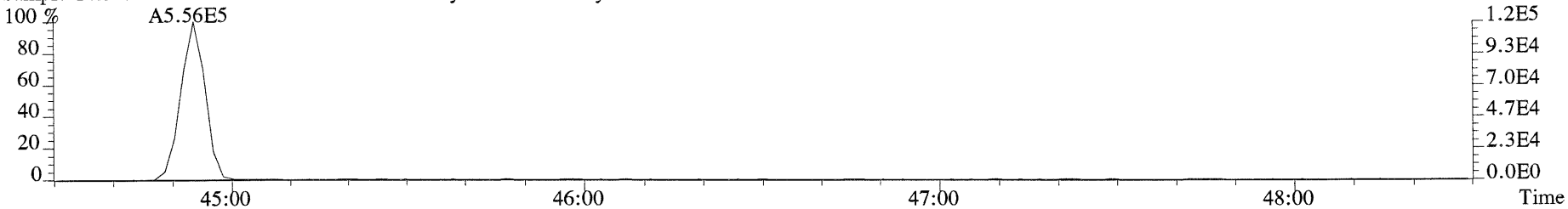
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



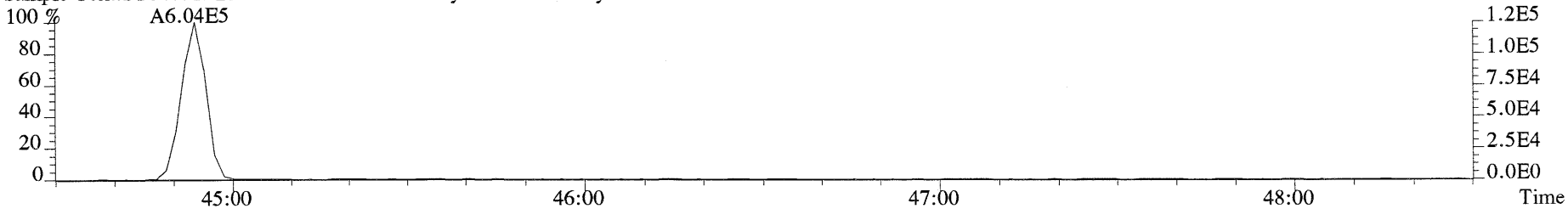
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



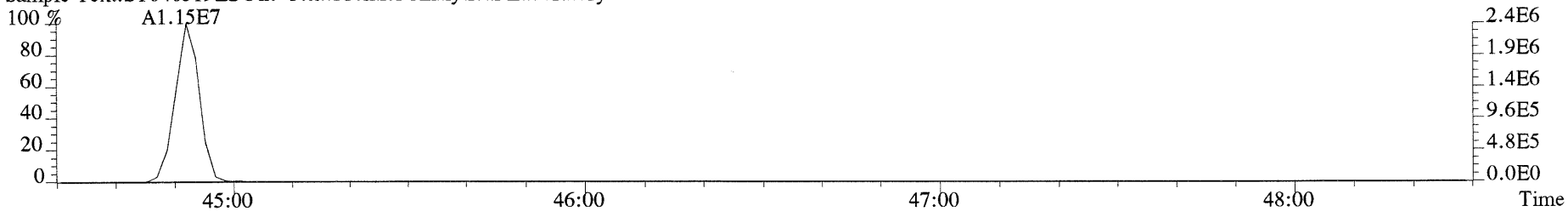
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



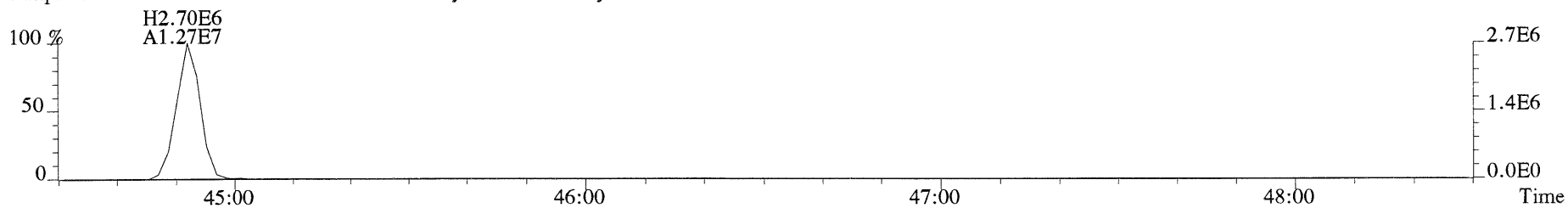
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



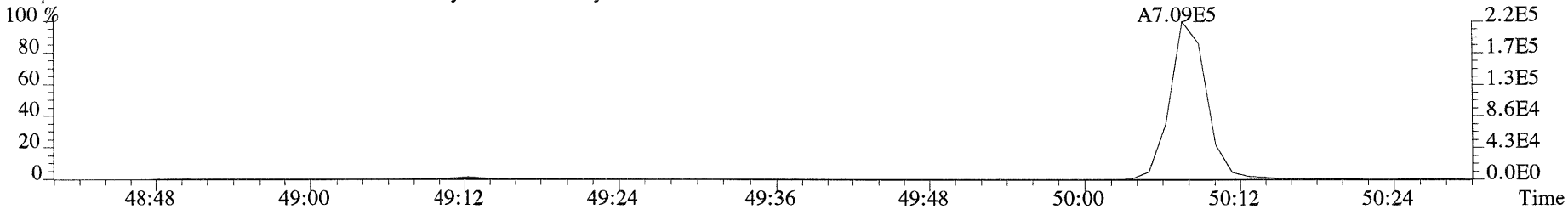
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



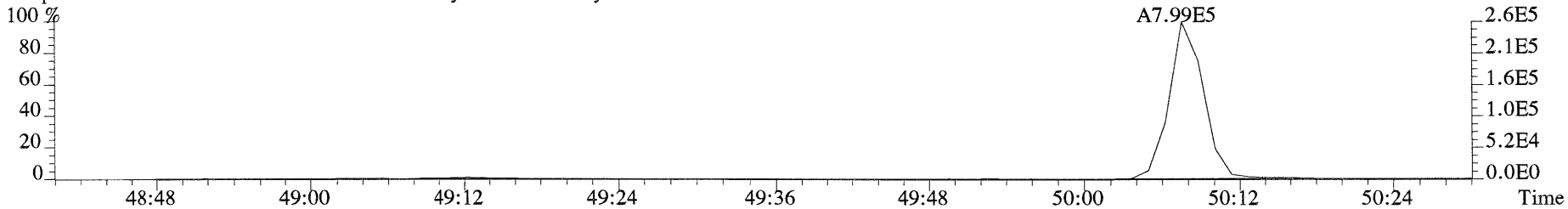
File:03APR19Z #1-405 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



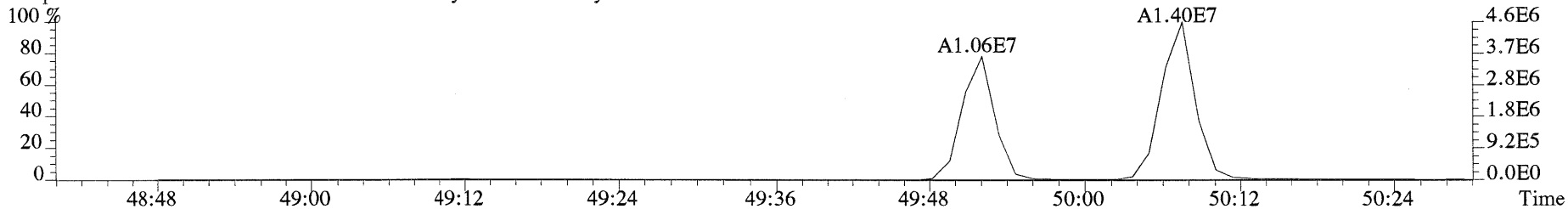
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



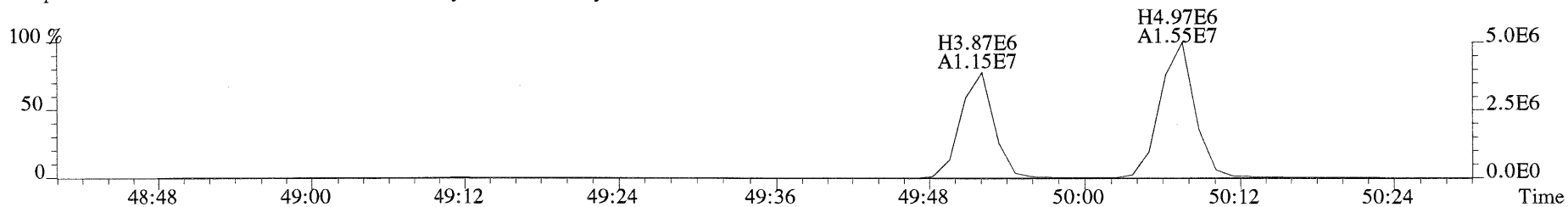
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



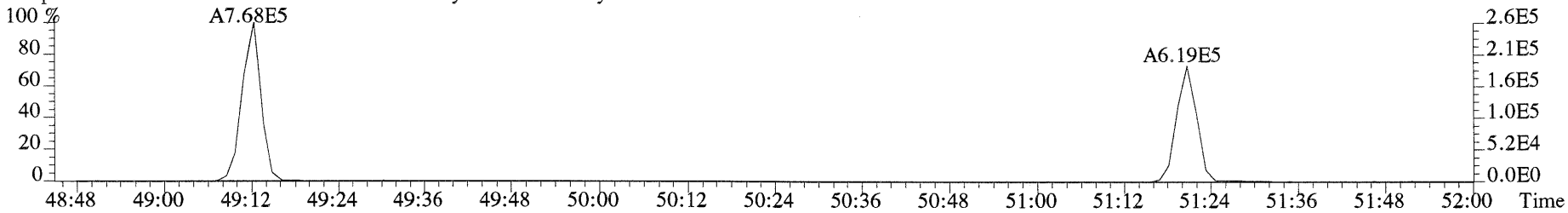
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



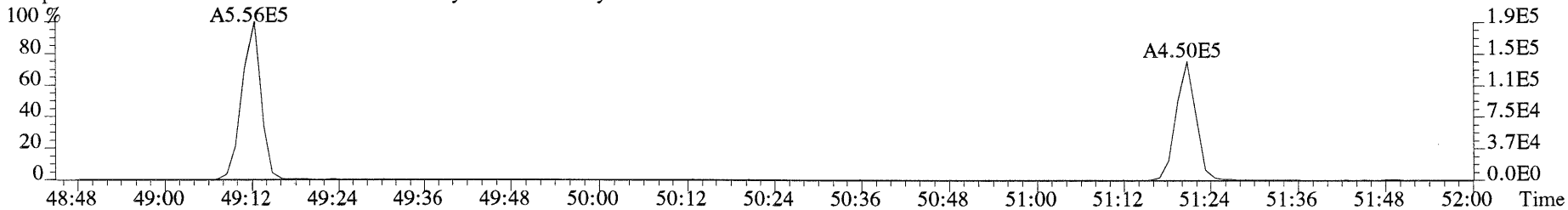
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



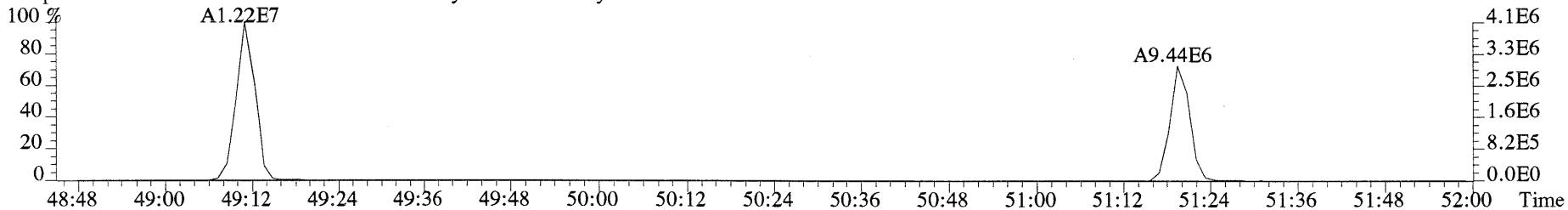
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



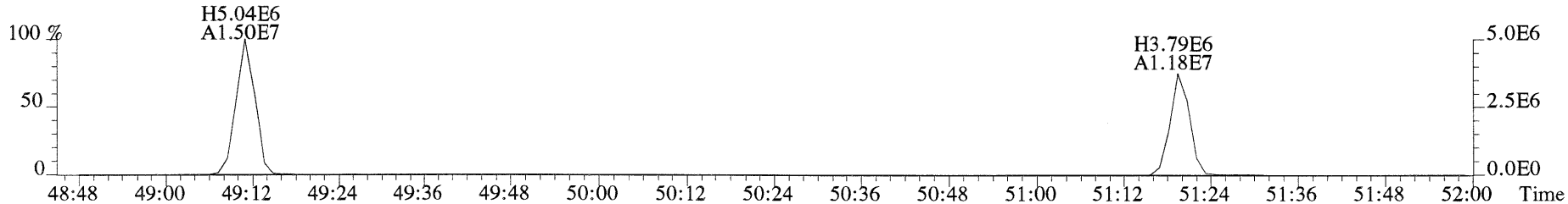
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



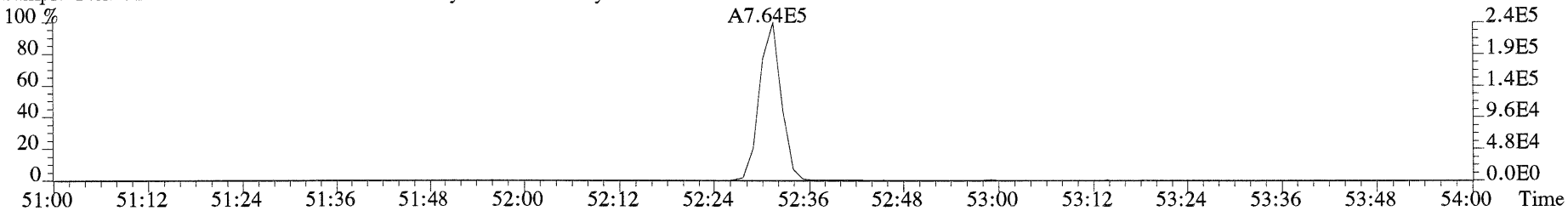
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



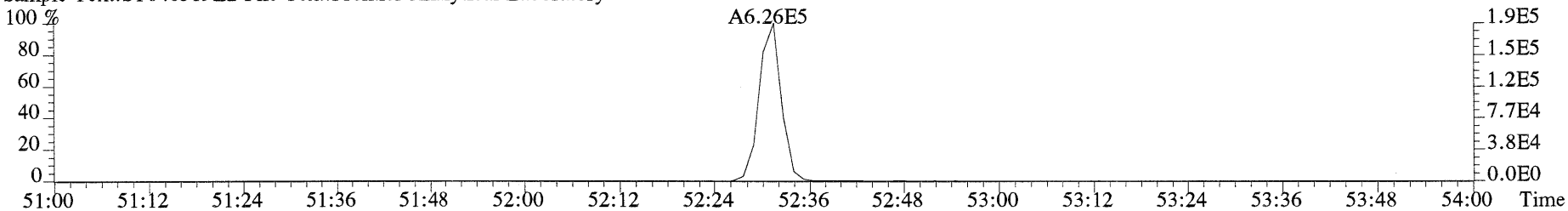
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



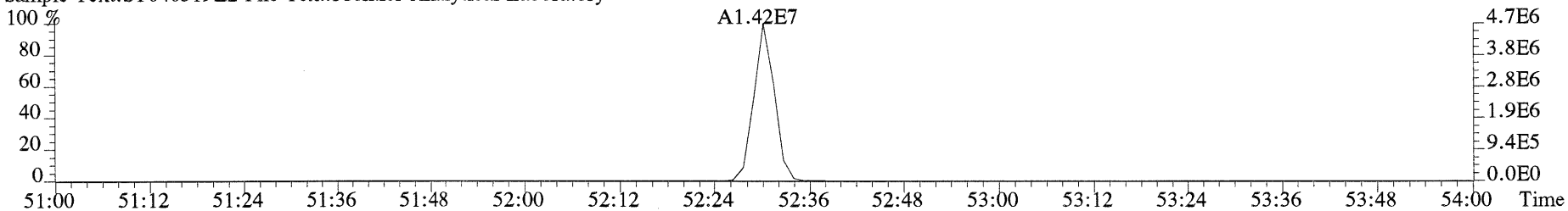
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



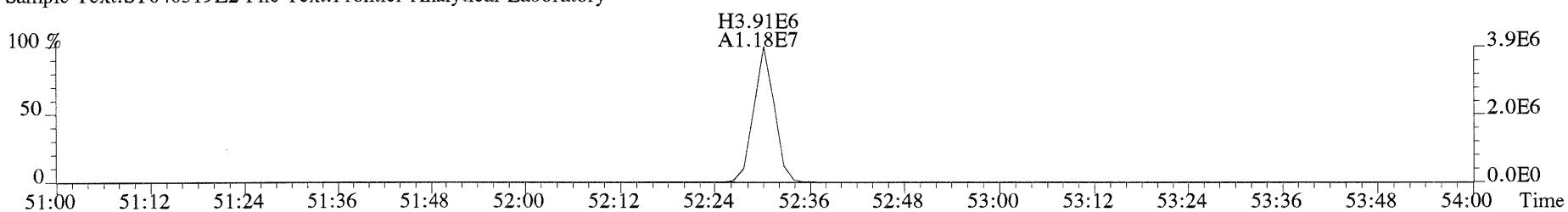
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



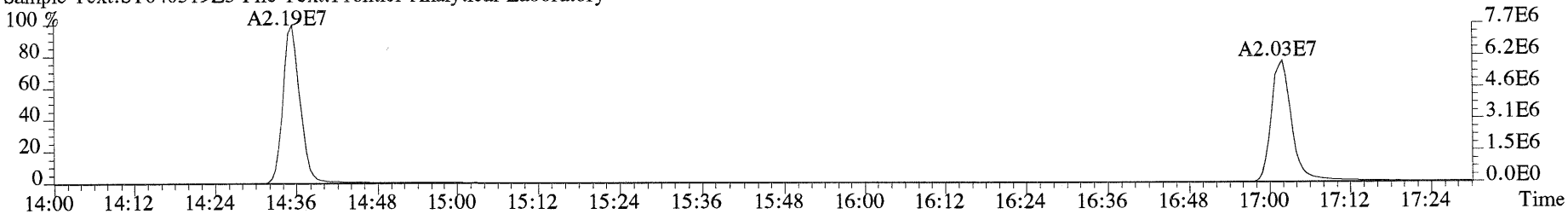
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



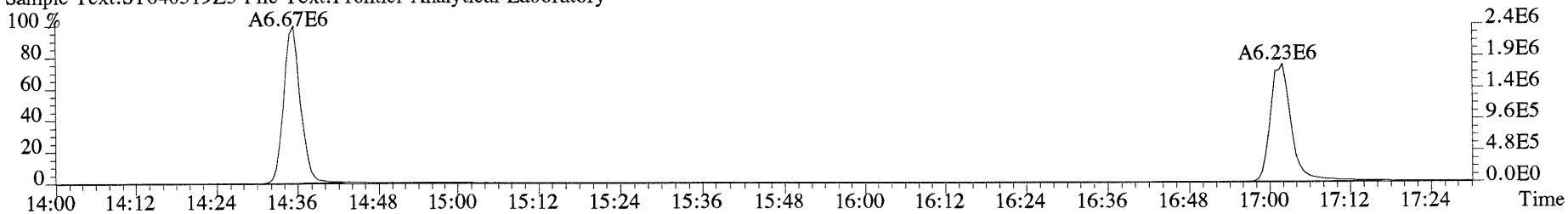
File:03APR19Z #1-315 Acq: 3-APR-2019 09:38:36 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z2 File Text:Frontier Analytical Laboratory



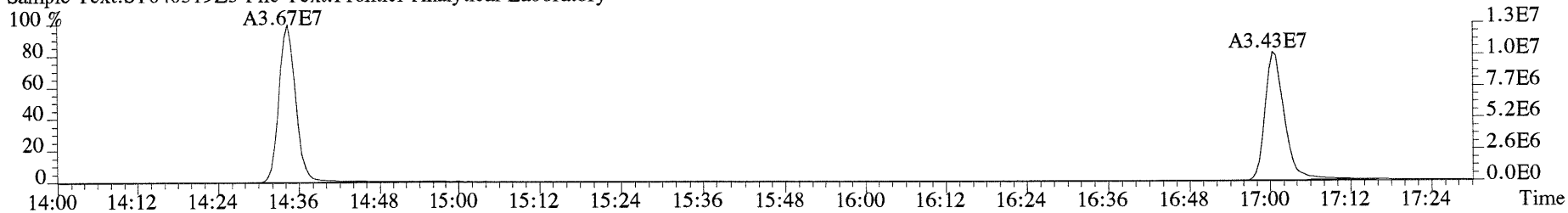
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



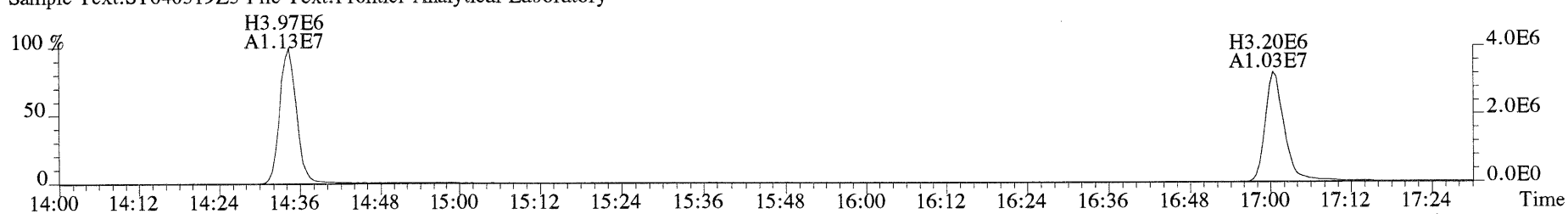
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



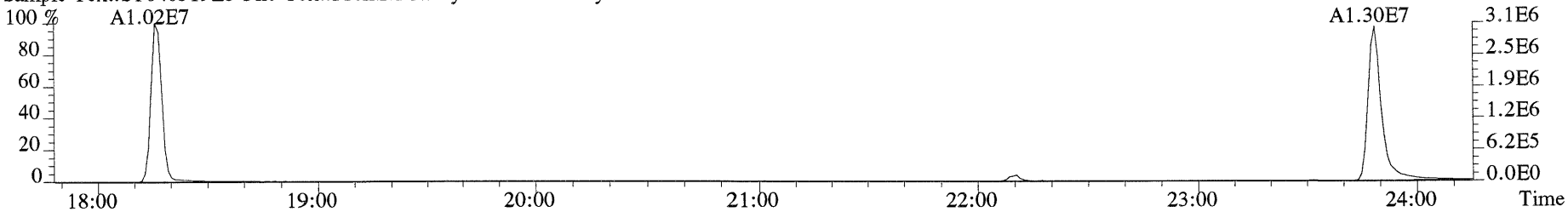
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



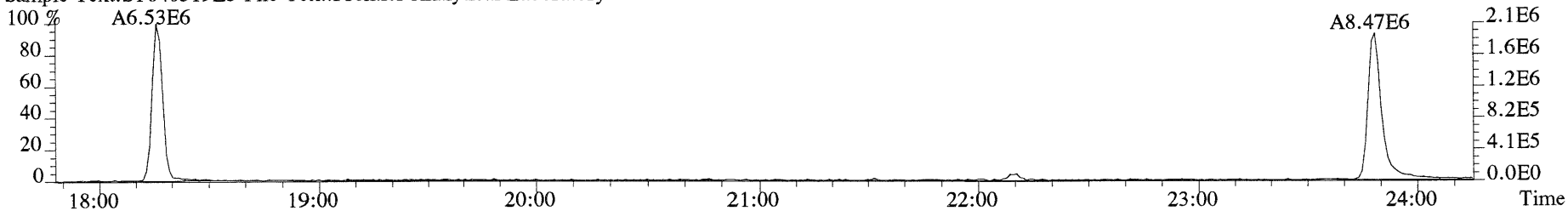
File:03APR19Z #1-783 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



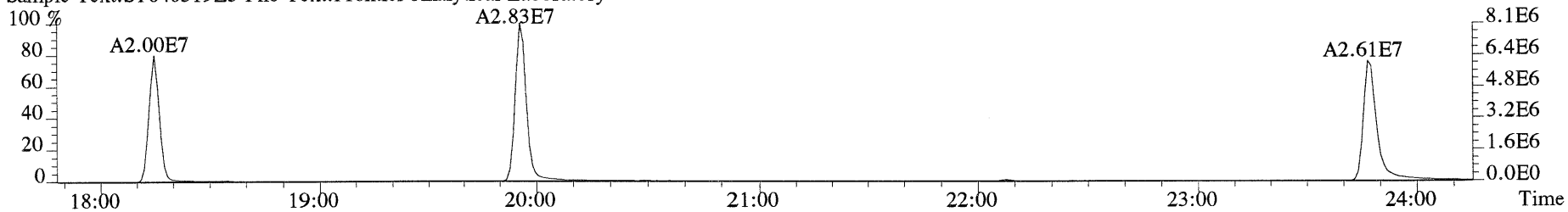
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



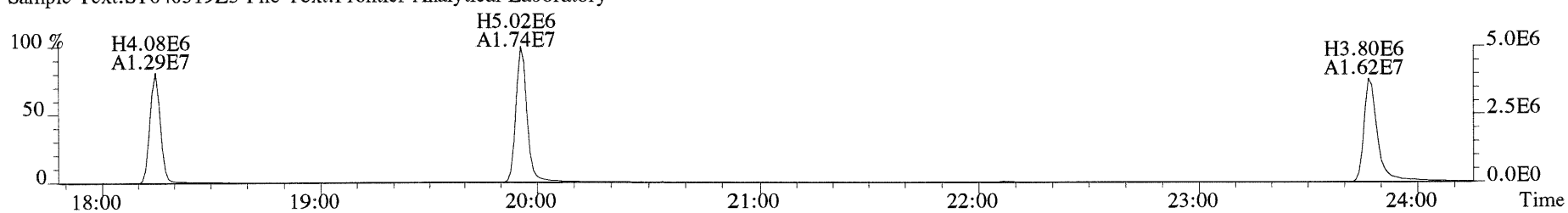
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



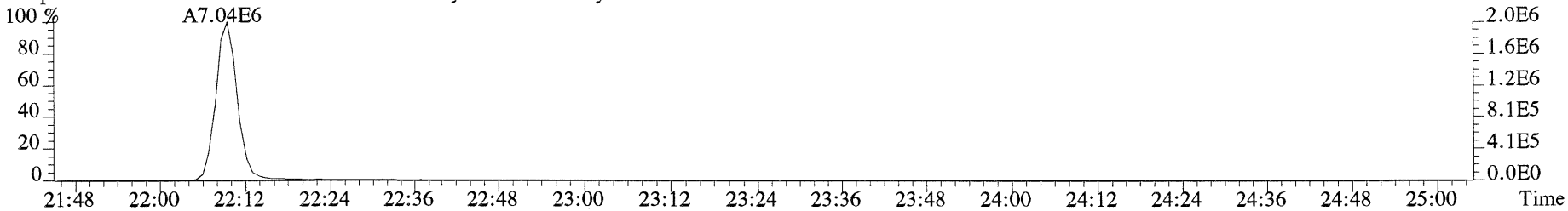
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



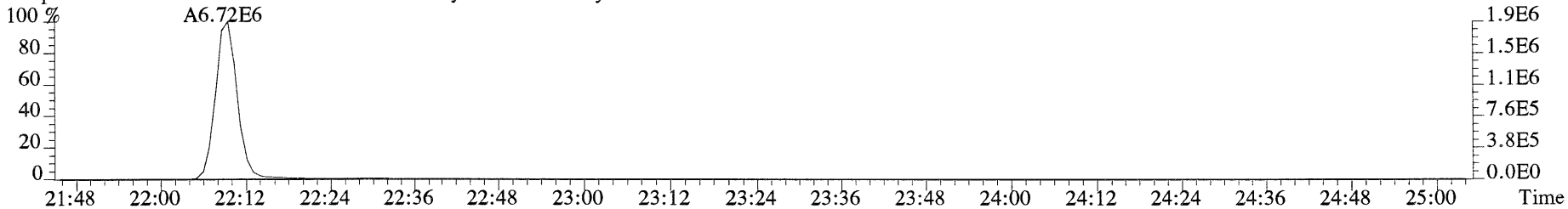
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



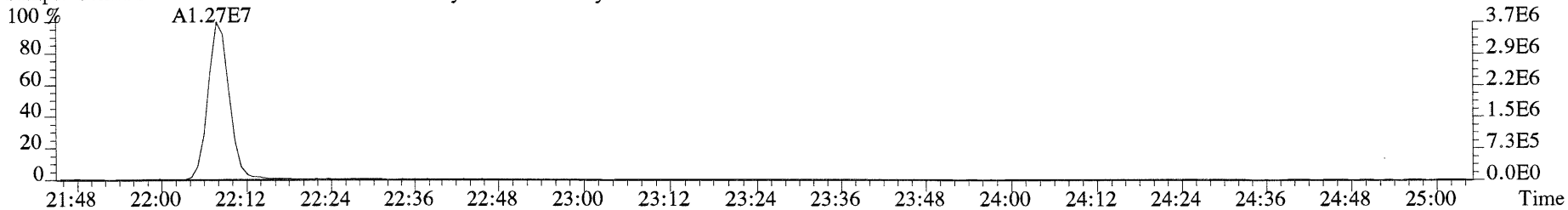
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



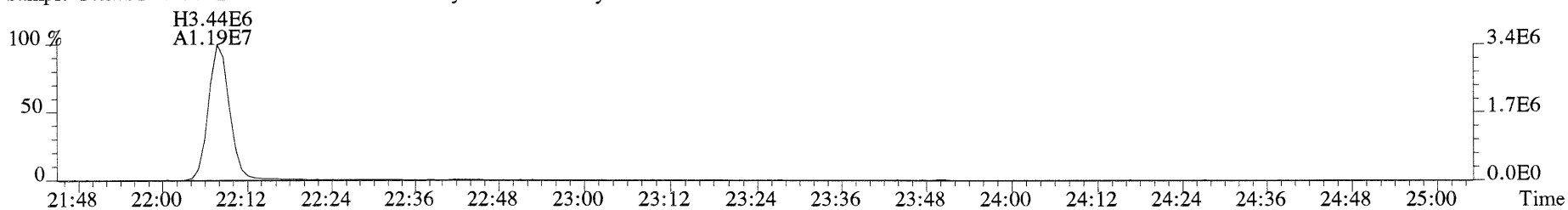
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



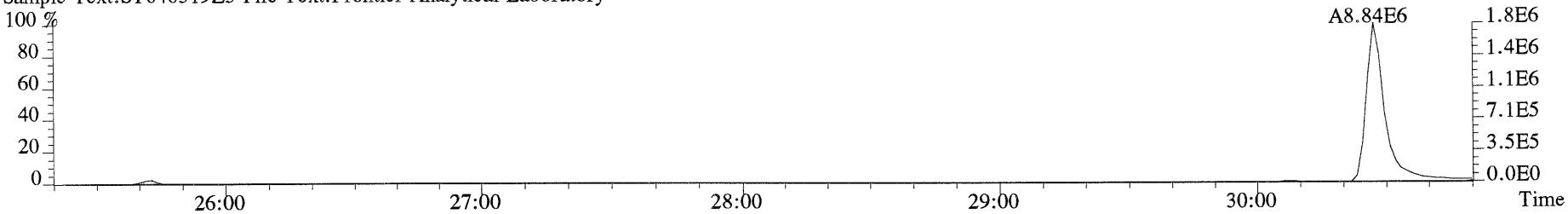
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



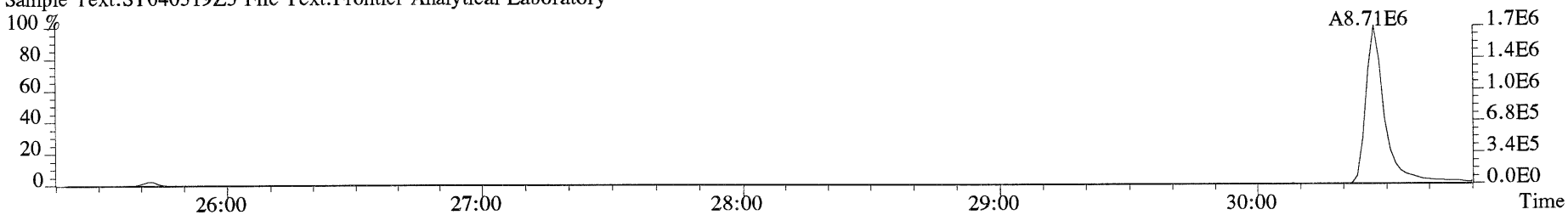
File:03APR19Z #1-520 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



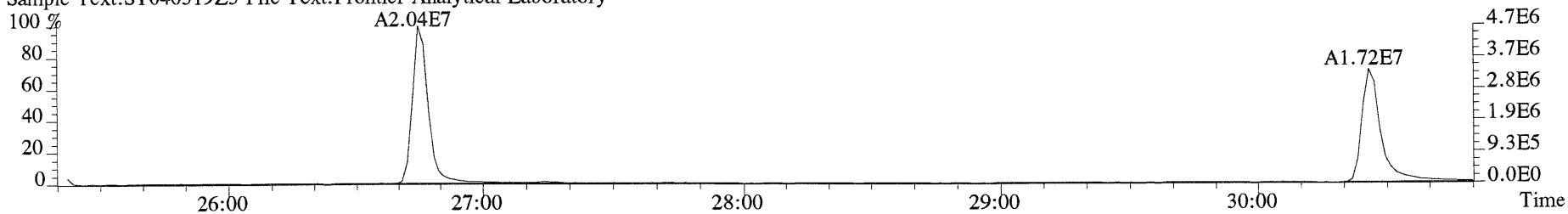
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



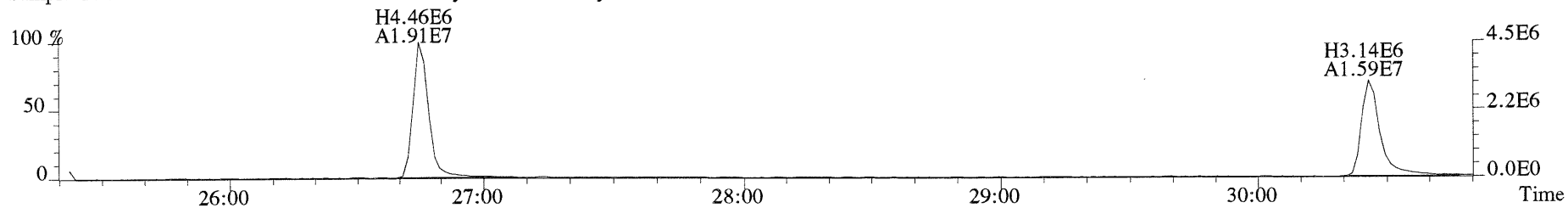
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



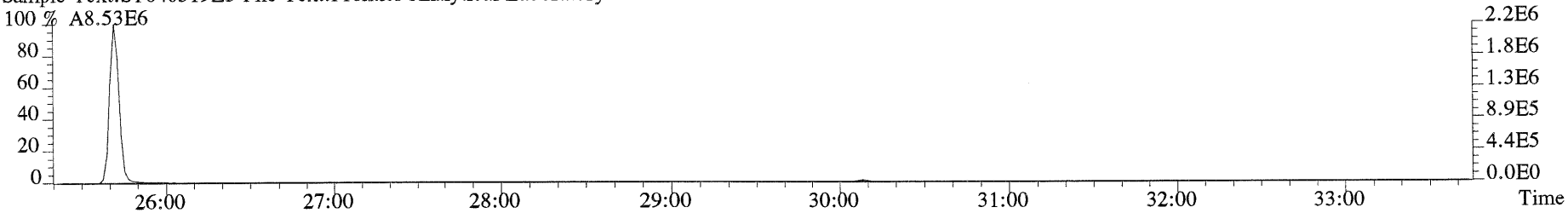
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



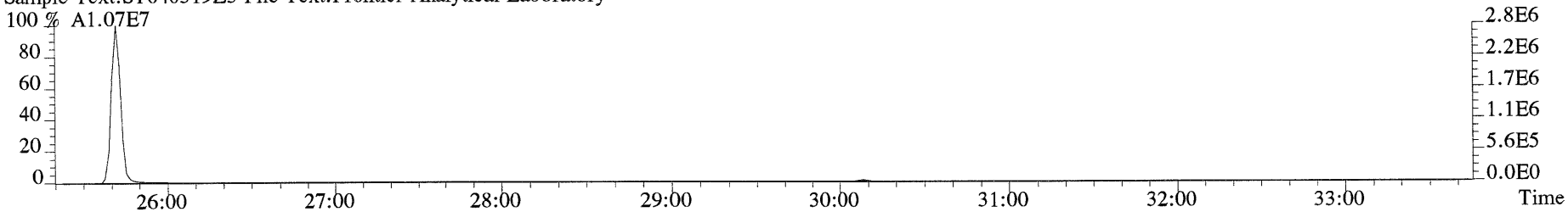
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



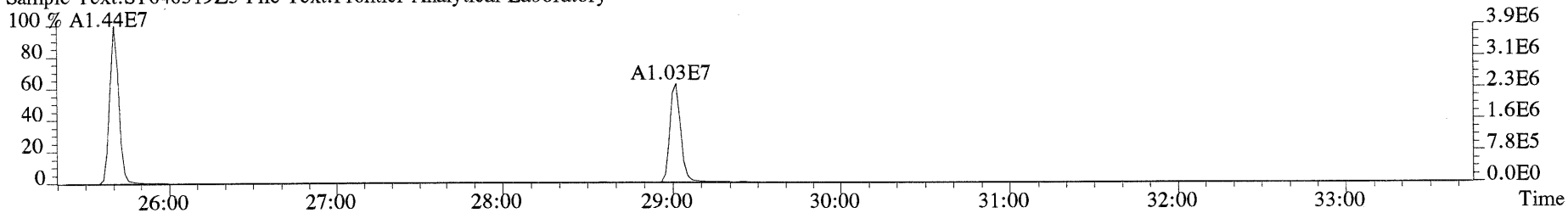
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



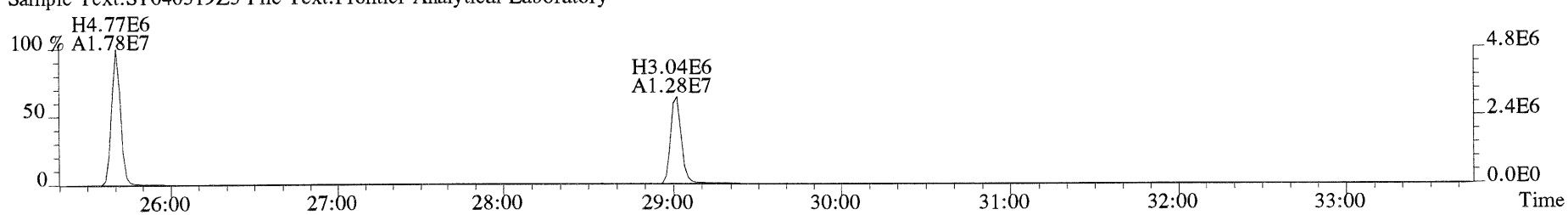
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



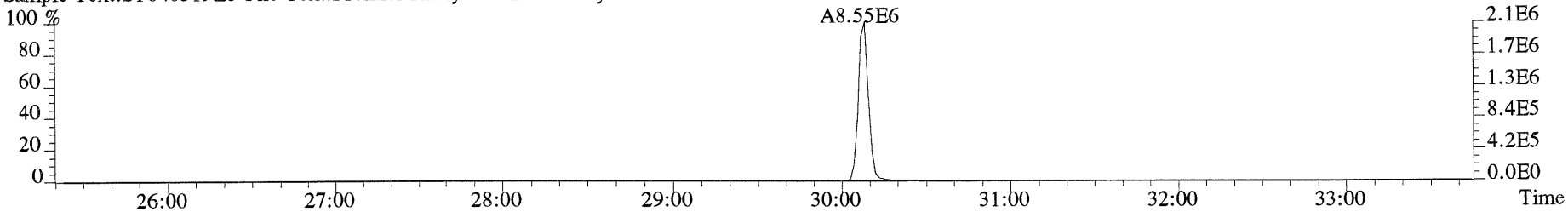
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



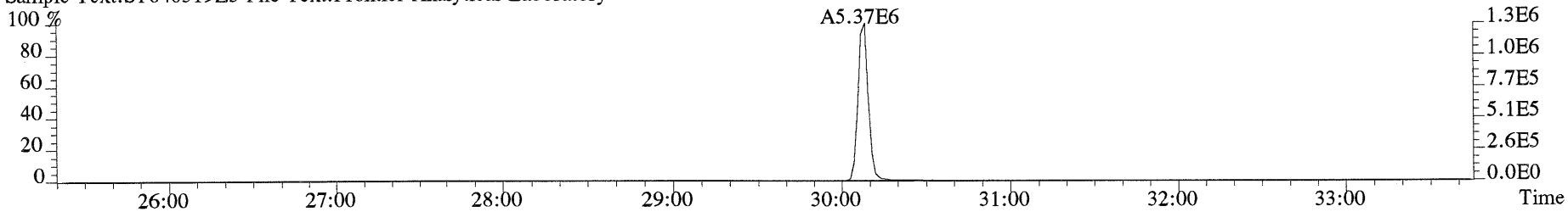
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



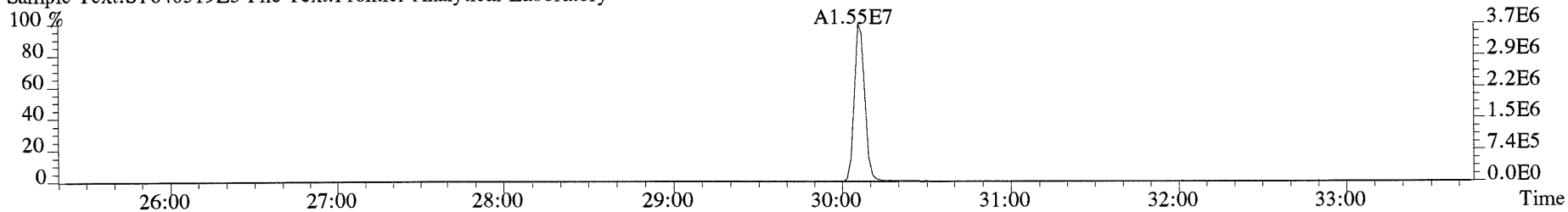
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



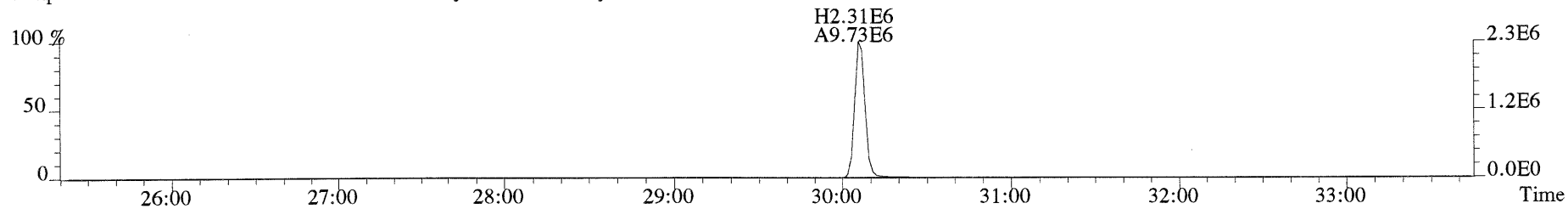
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



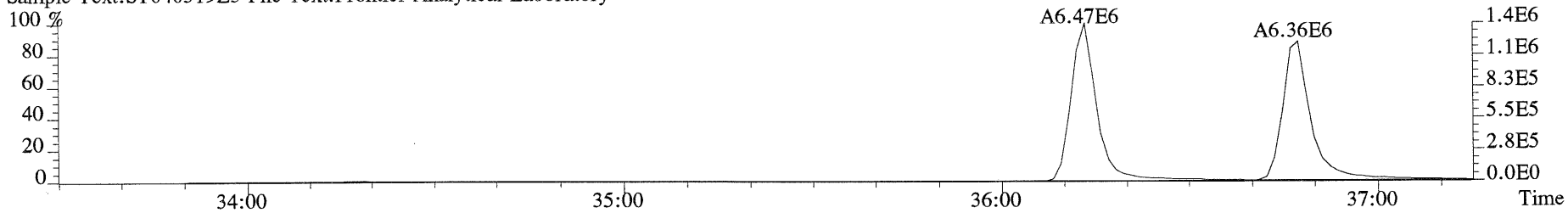
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



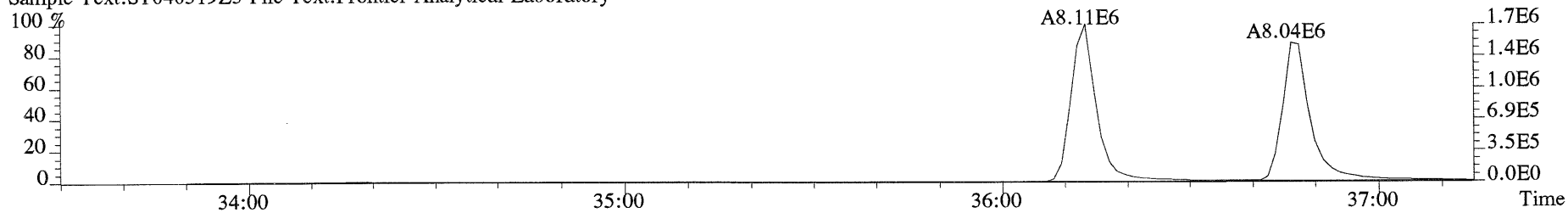
File:03APR19Z #1-401 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



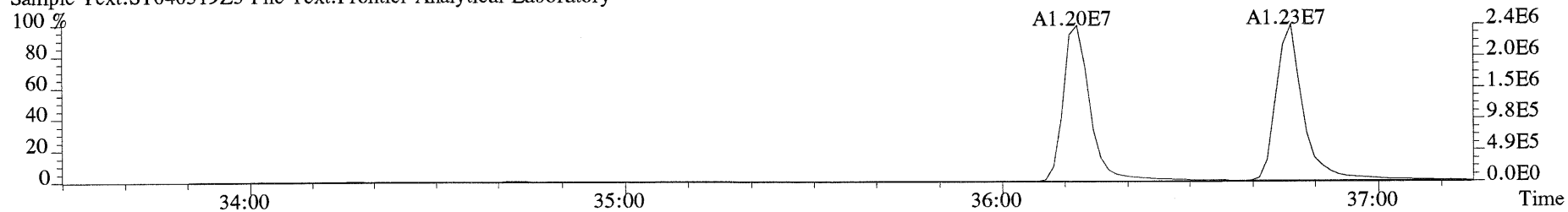
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



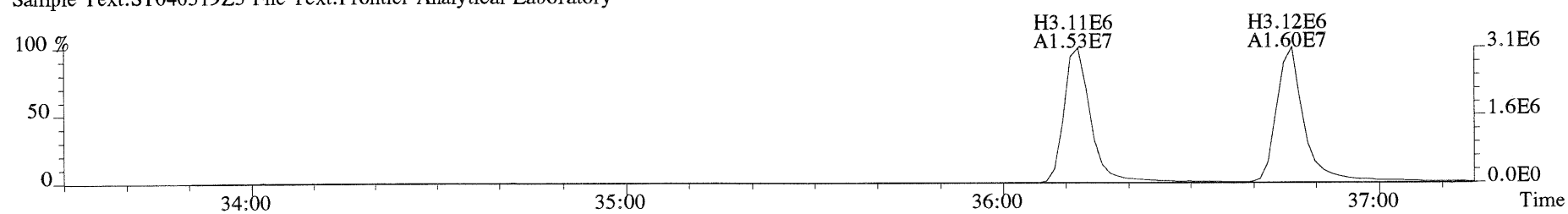
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



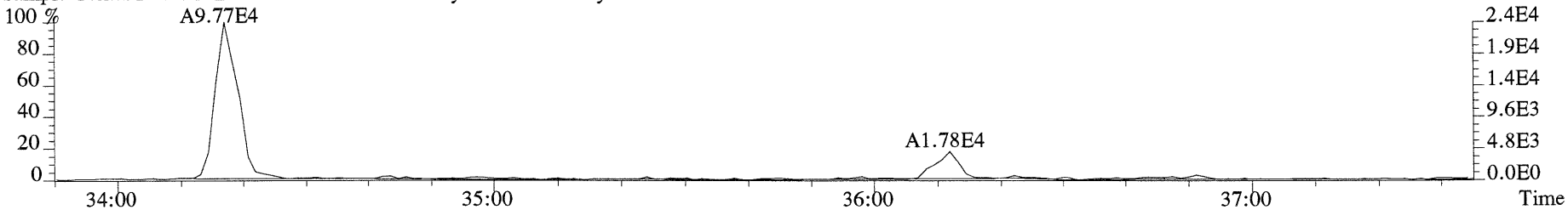
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



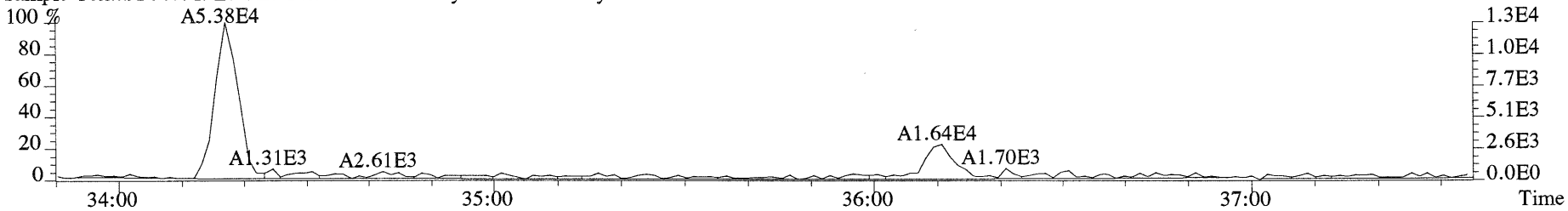
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



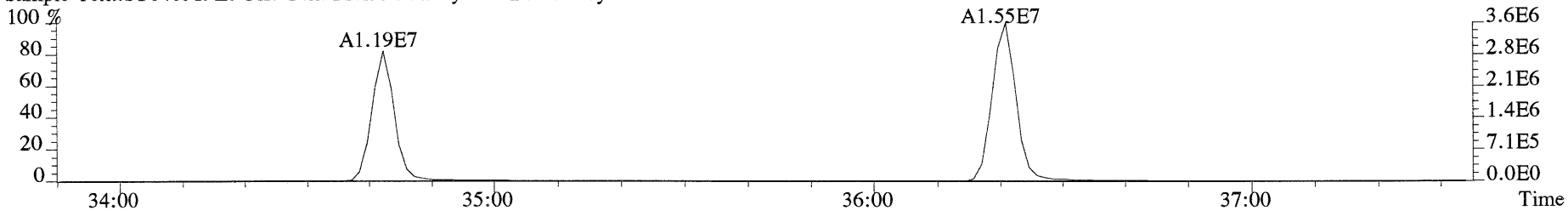
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



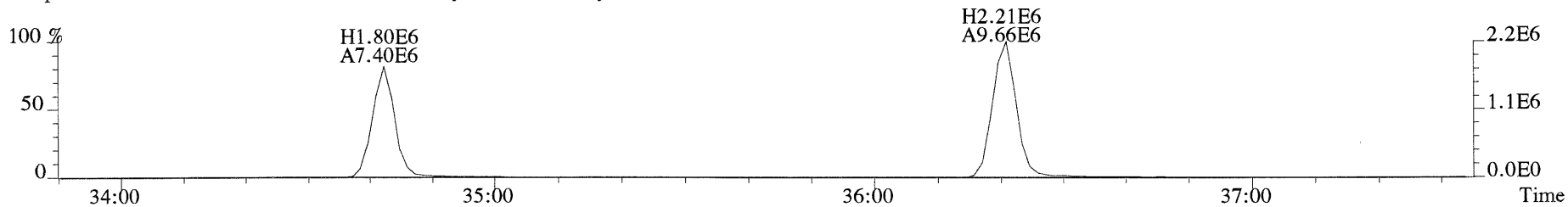
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



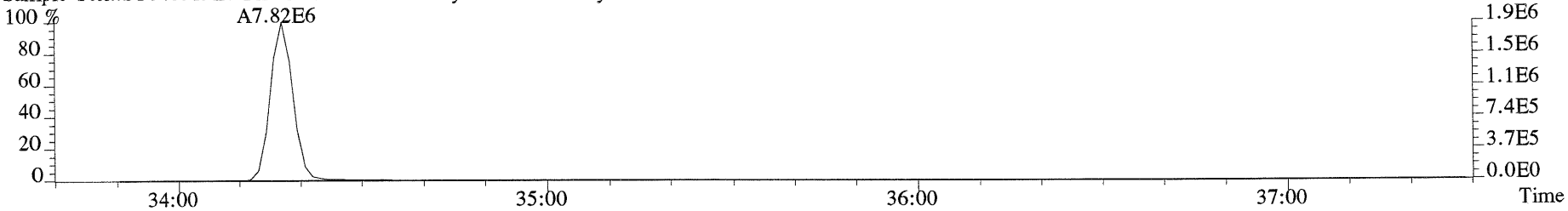
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



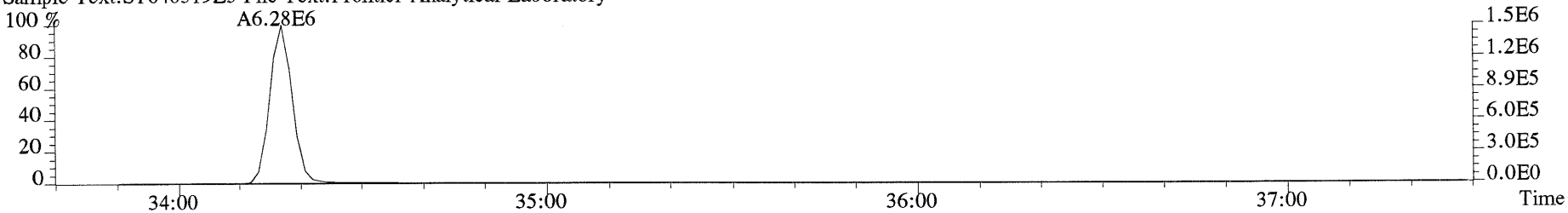
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



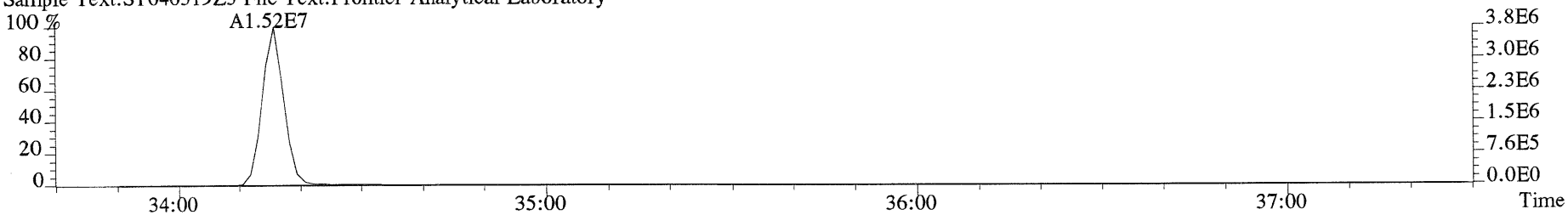
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



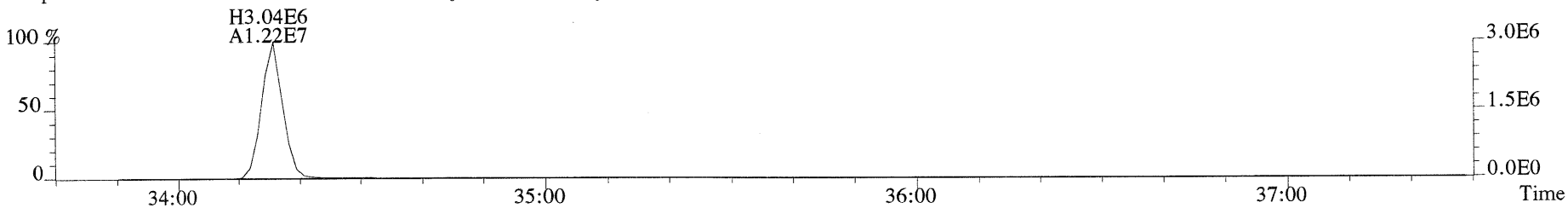
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



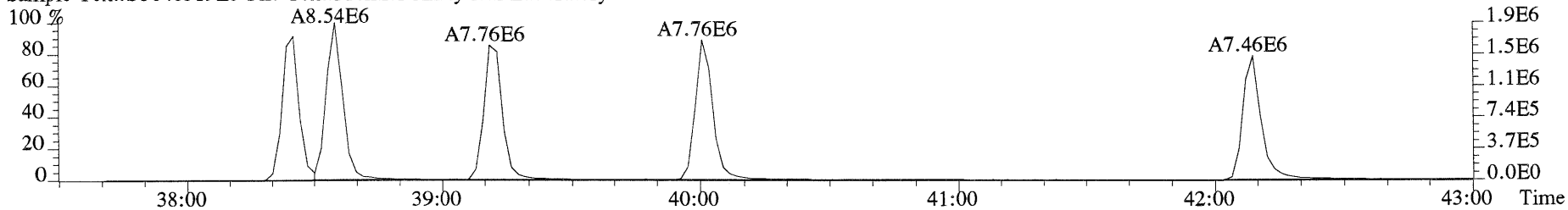
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



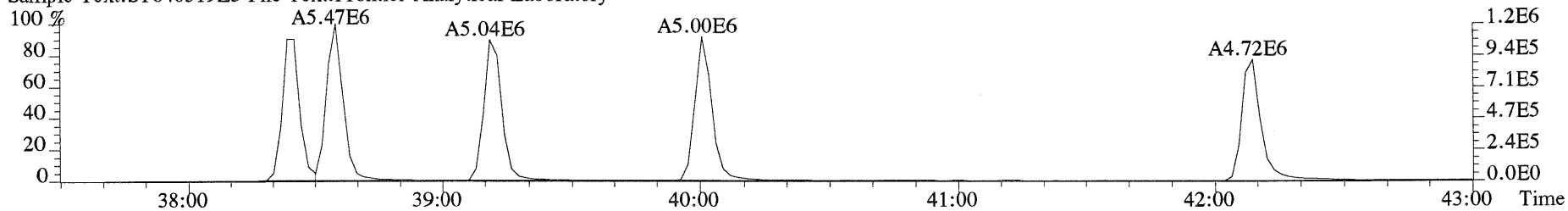
File:03APR19Z #1-181 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



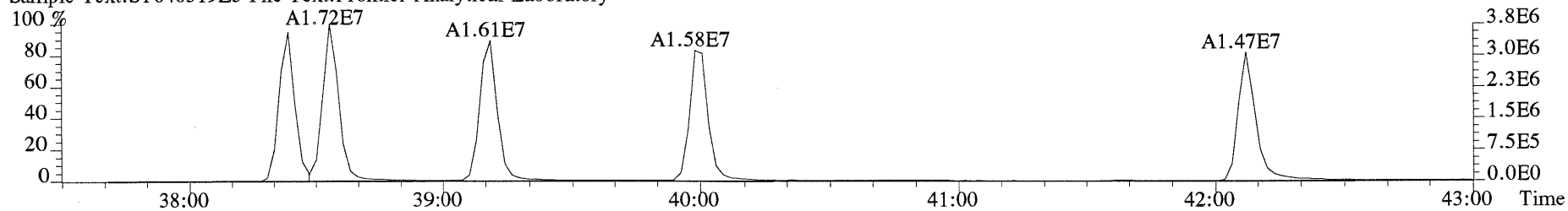
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



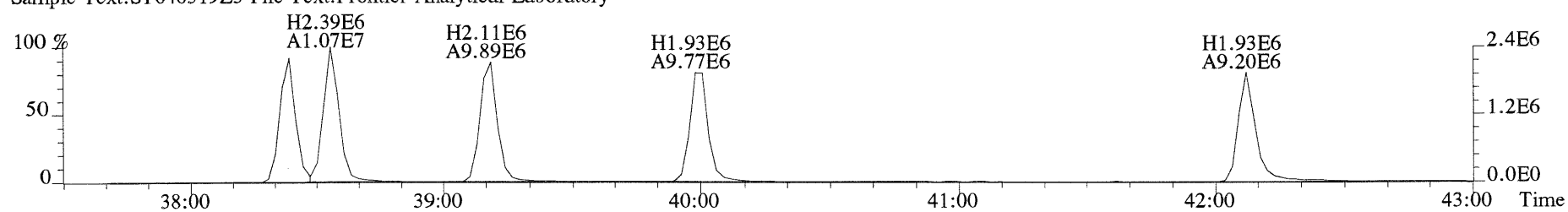
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



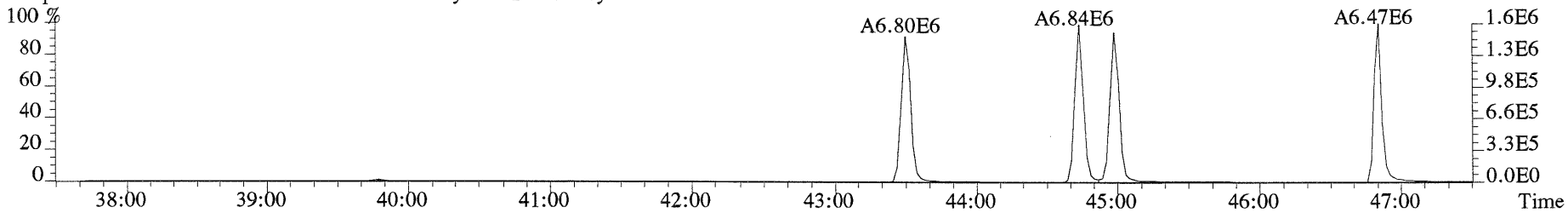
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



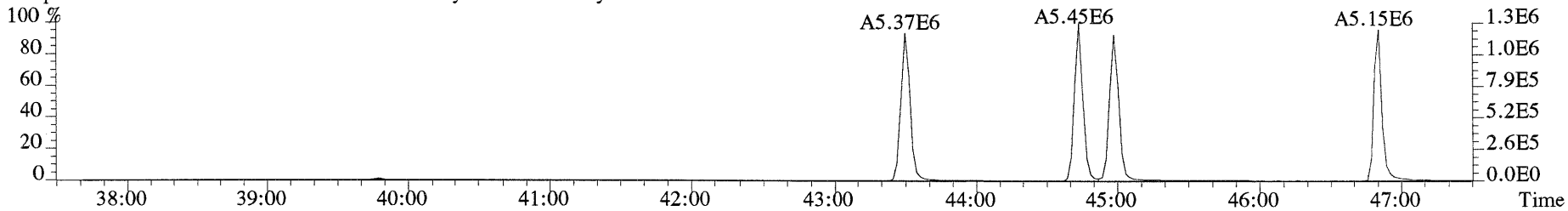
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



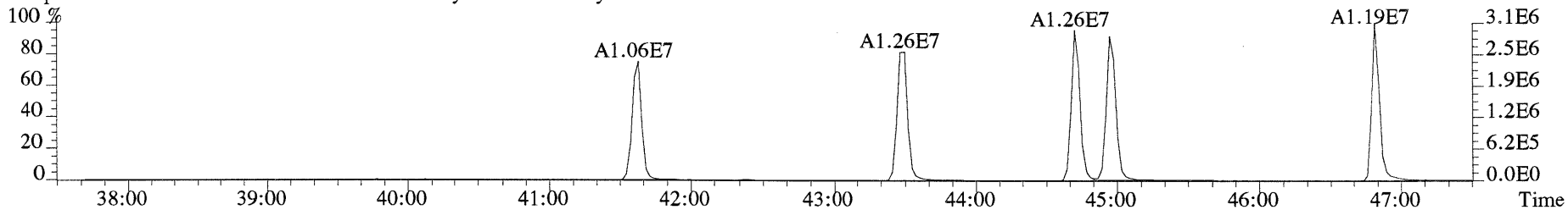
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



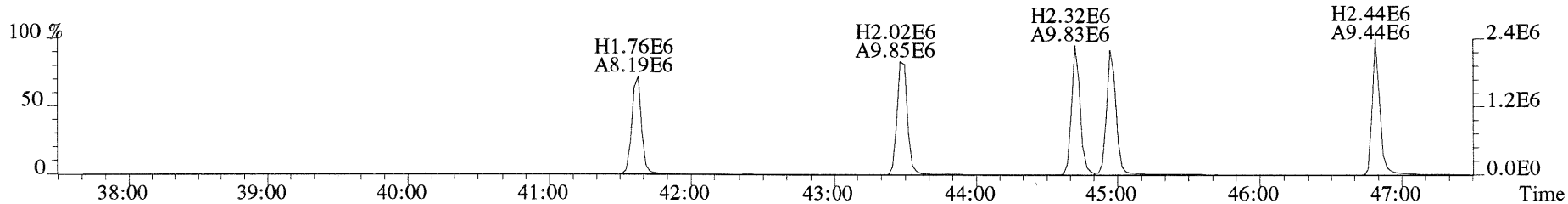
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



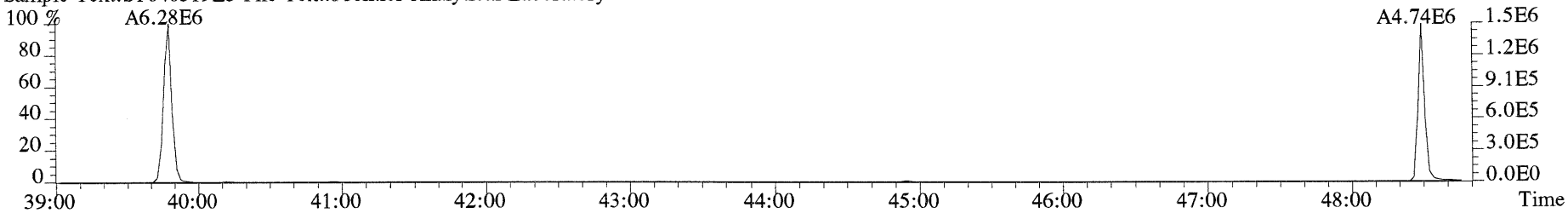
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



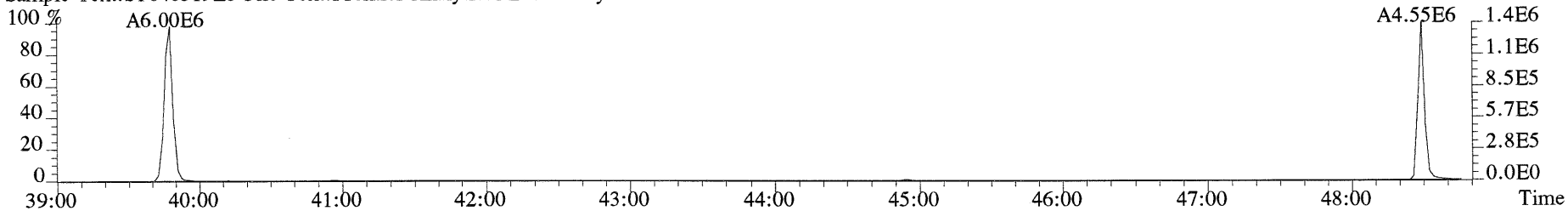
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



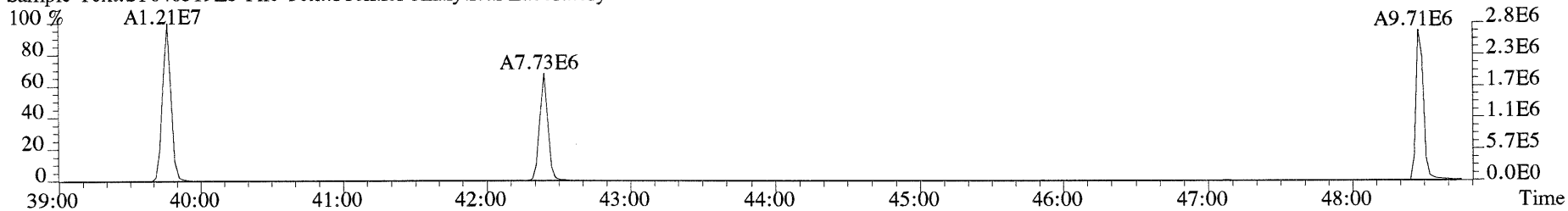
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



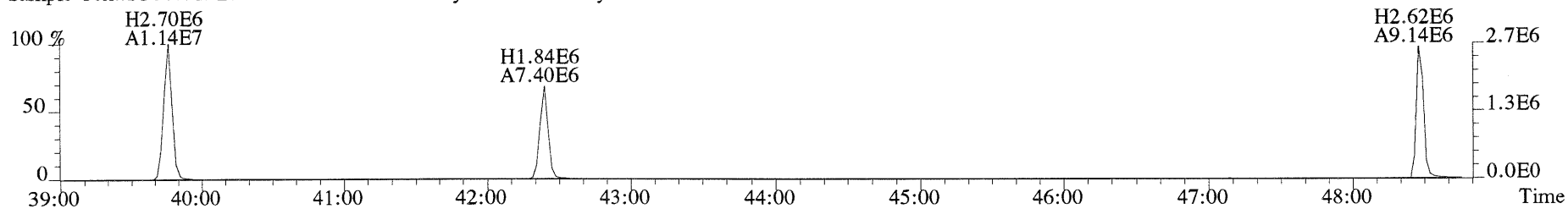
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



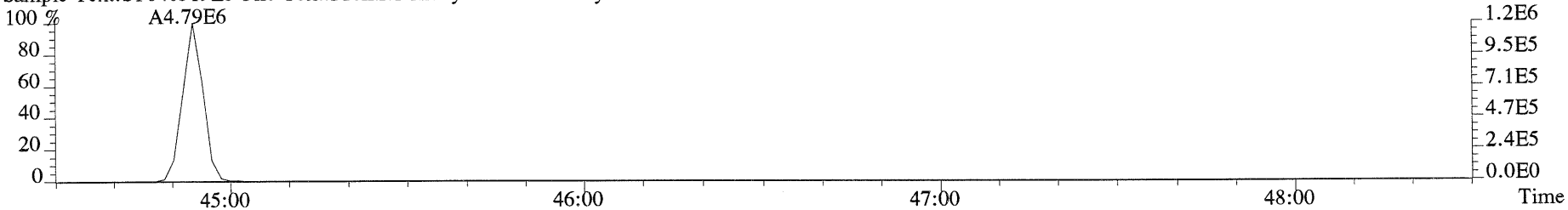
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



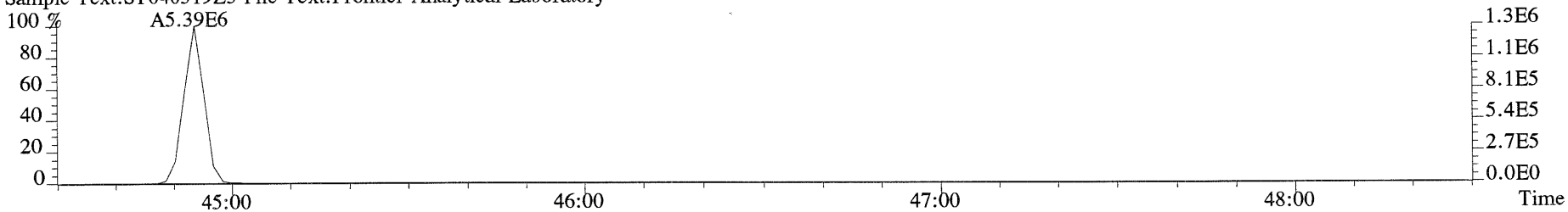
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



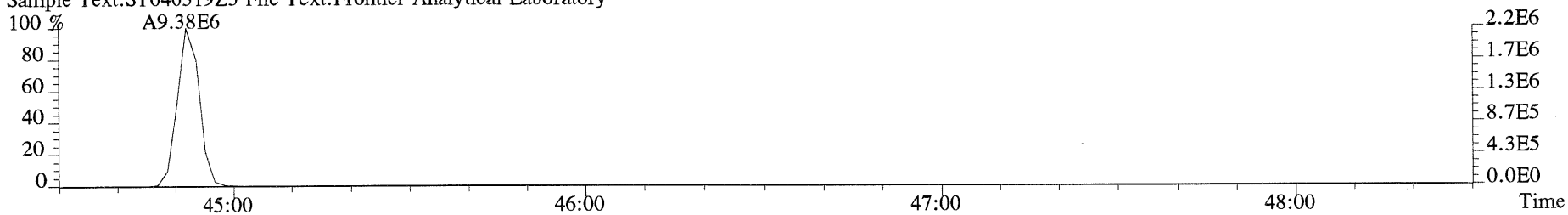
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



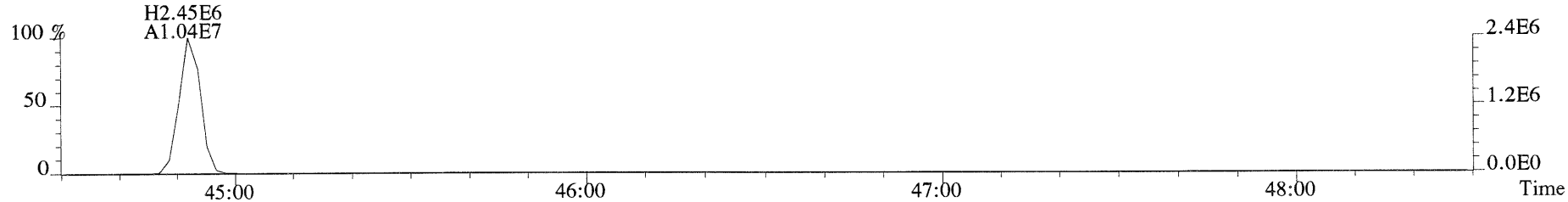
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



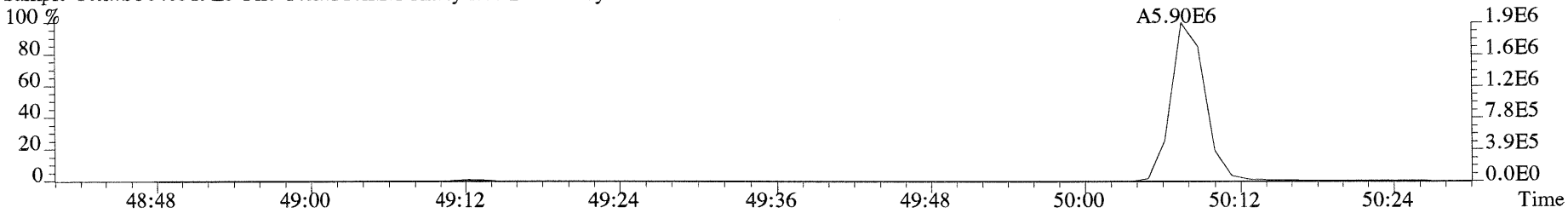
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



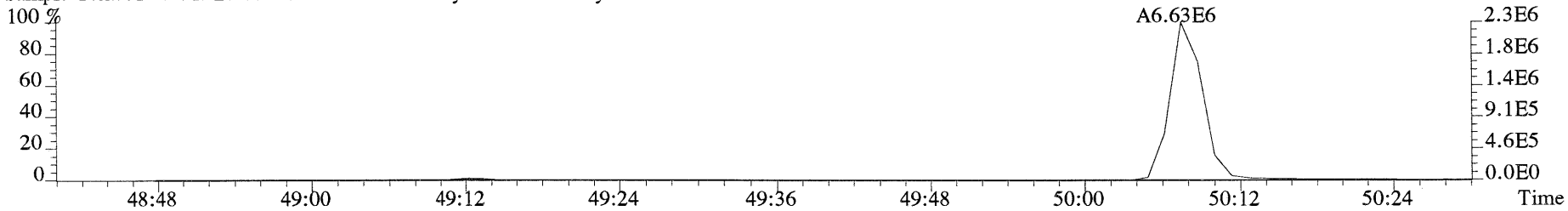
File:03APR19Z #1-405 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



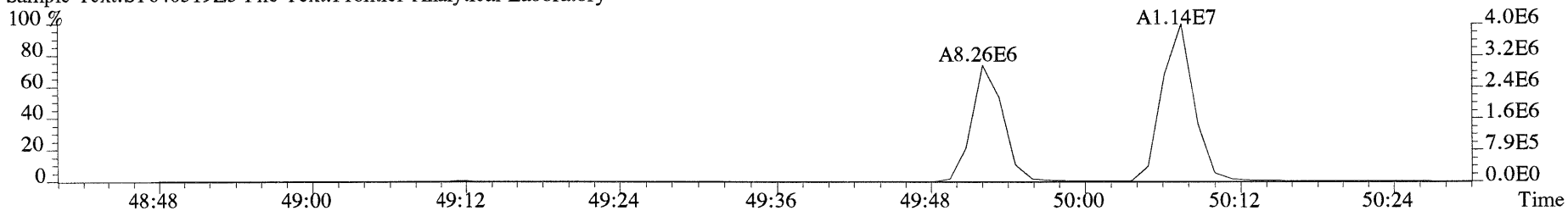
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



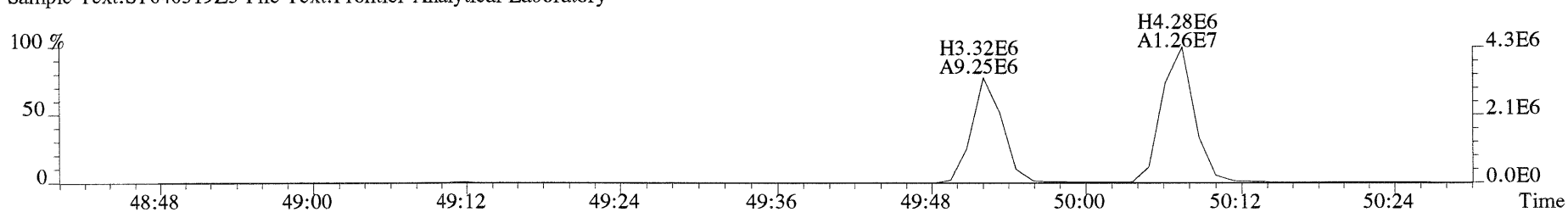
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



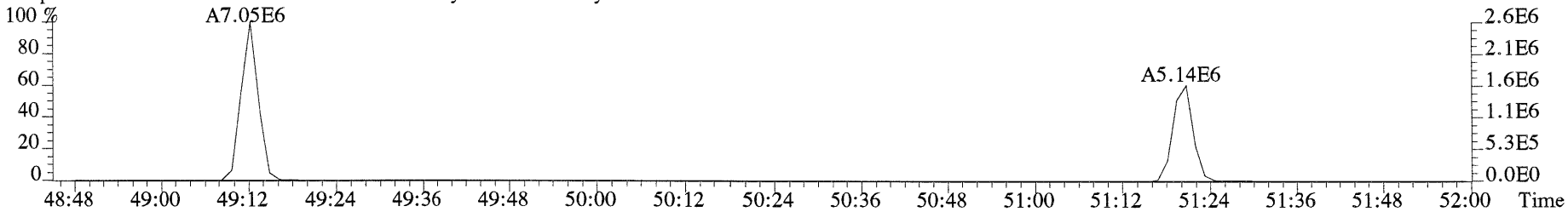
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



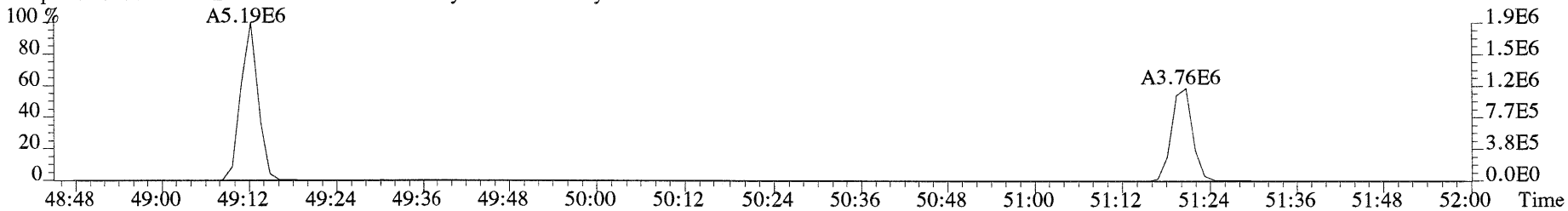
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



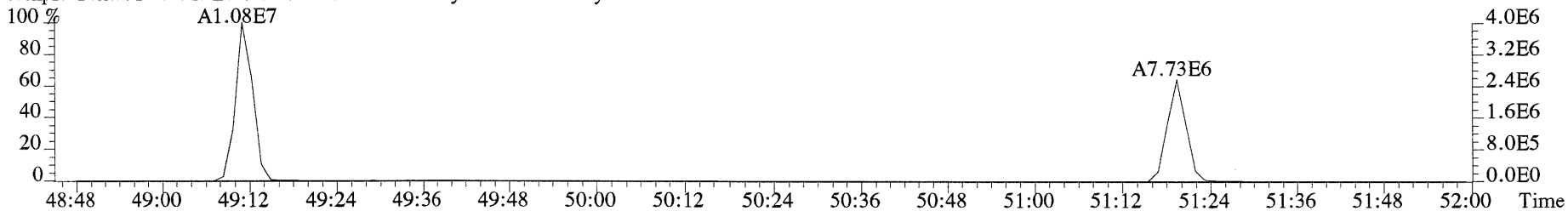
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



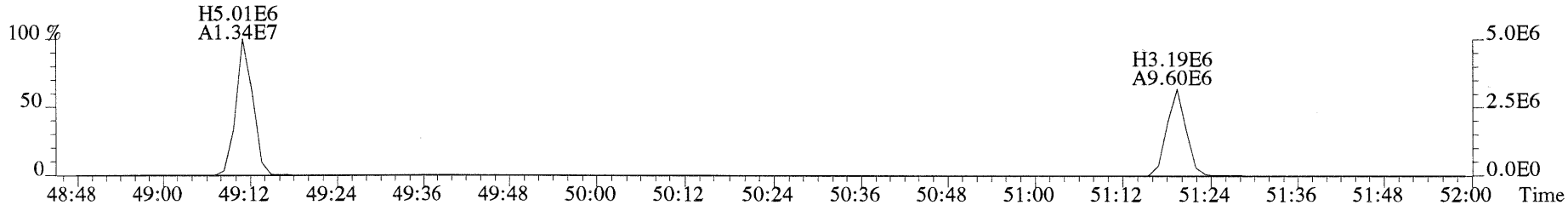
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



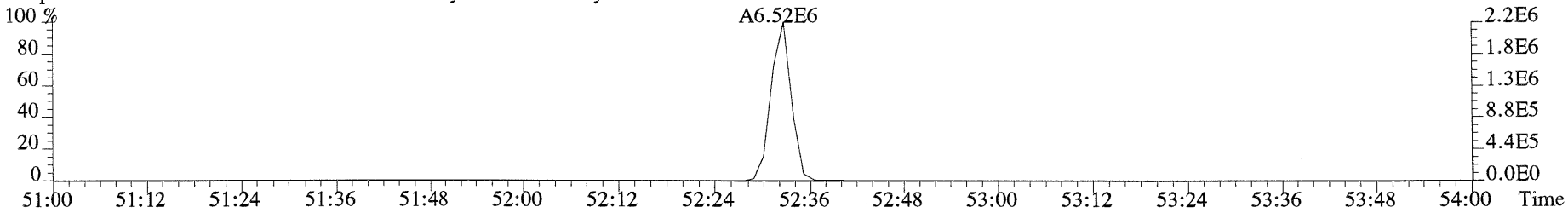
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



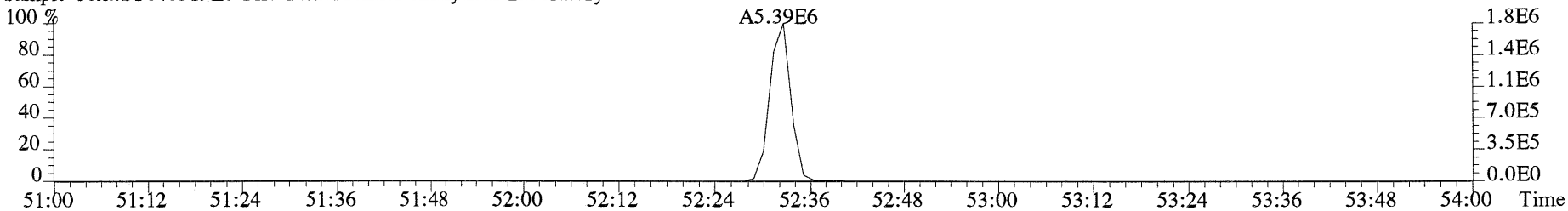
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



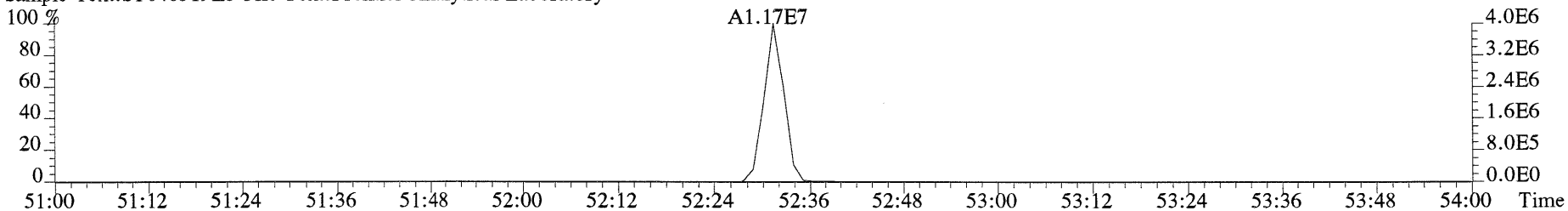
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



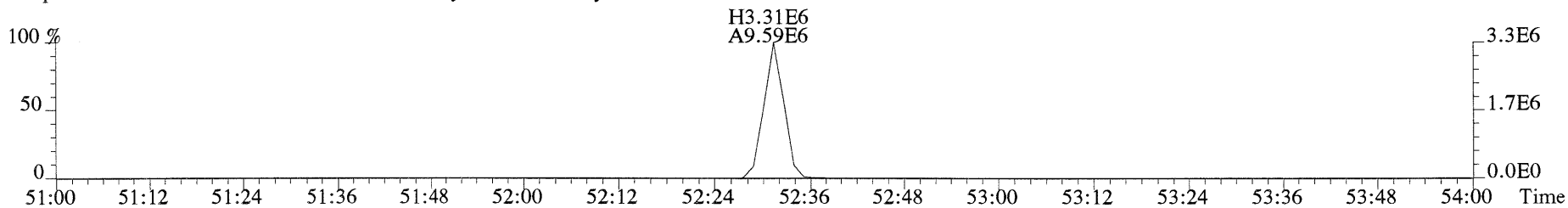
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



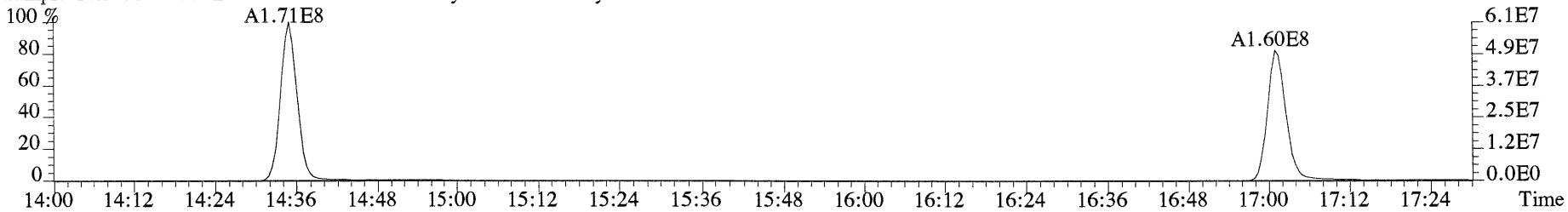
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



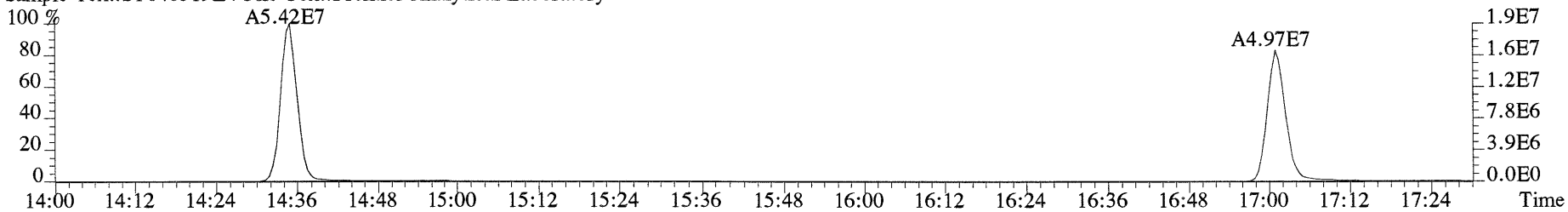
File:03APR19Z #1-315 Acq: 3-APR-2019 10:37:22 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z3 File Text:Frontier Analytical Laboratory



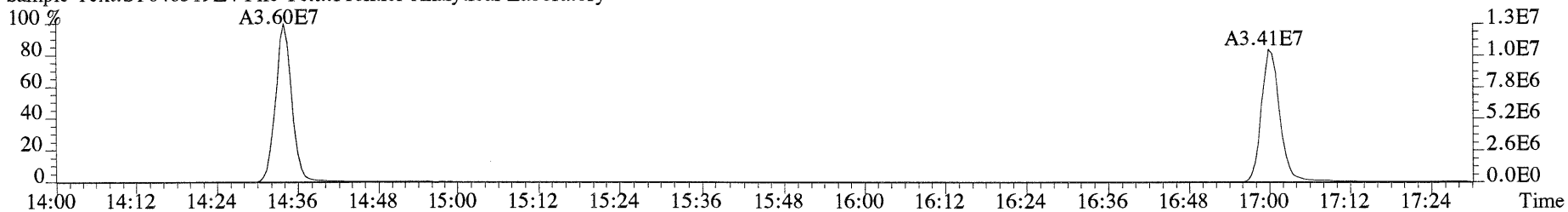
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



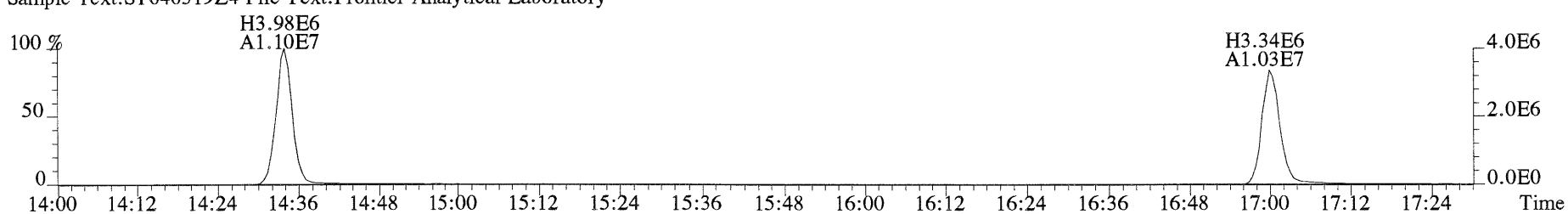
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



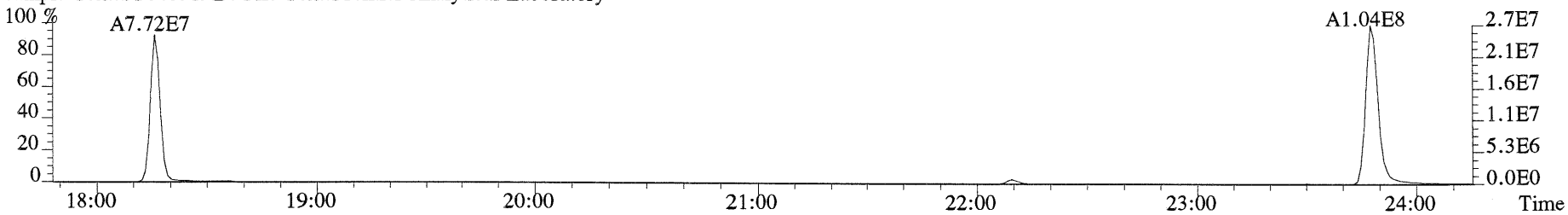
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



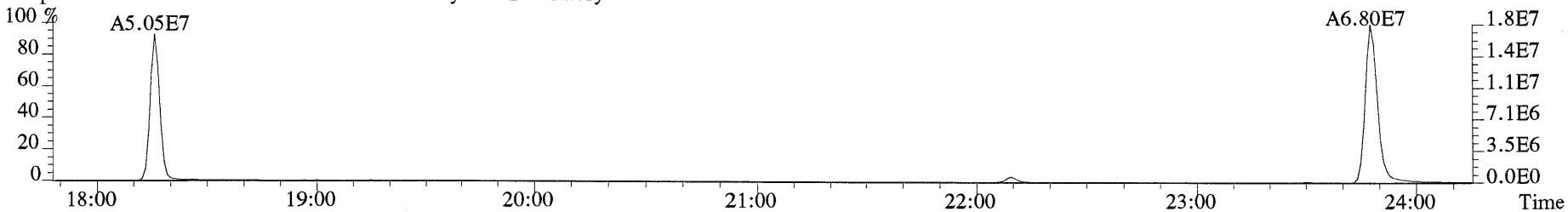
File:03APR19Z #1-783 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



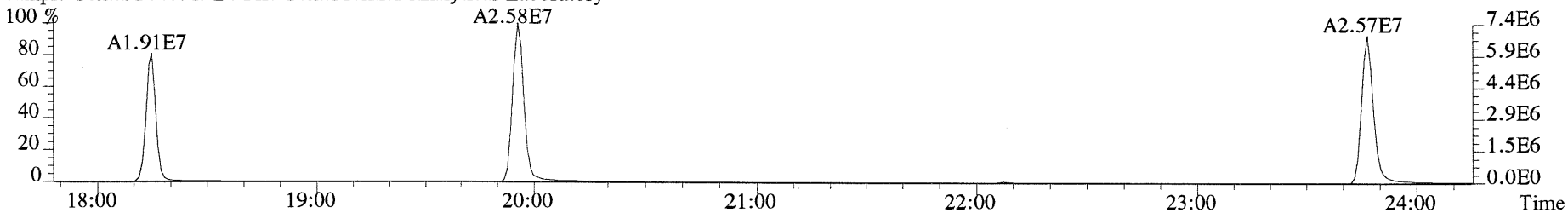
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



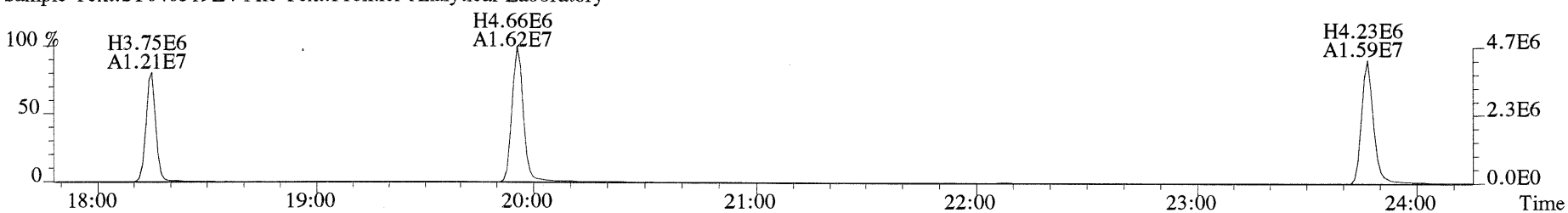
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



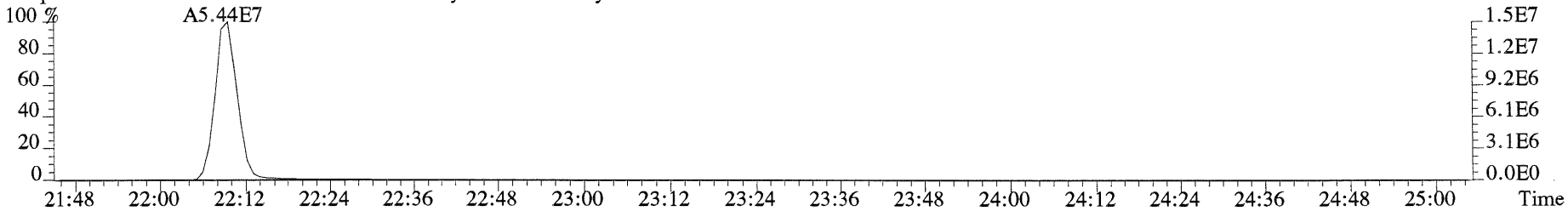
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



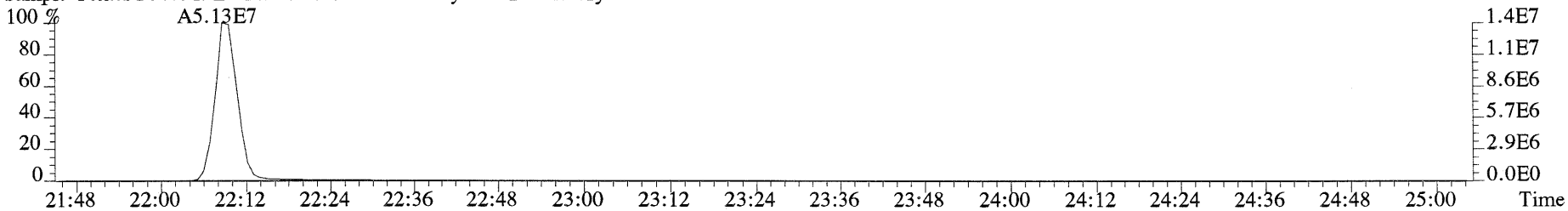
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



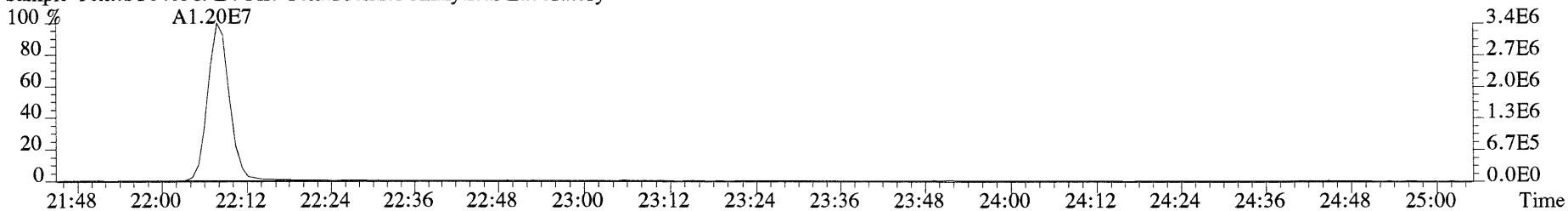
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



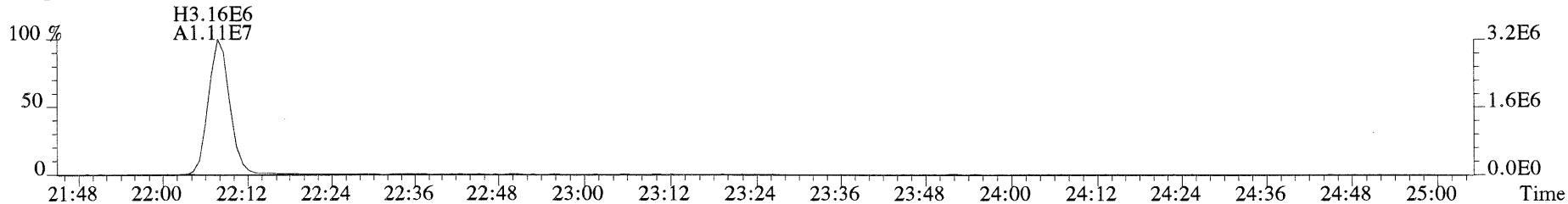
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



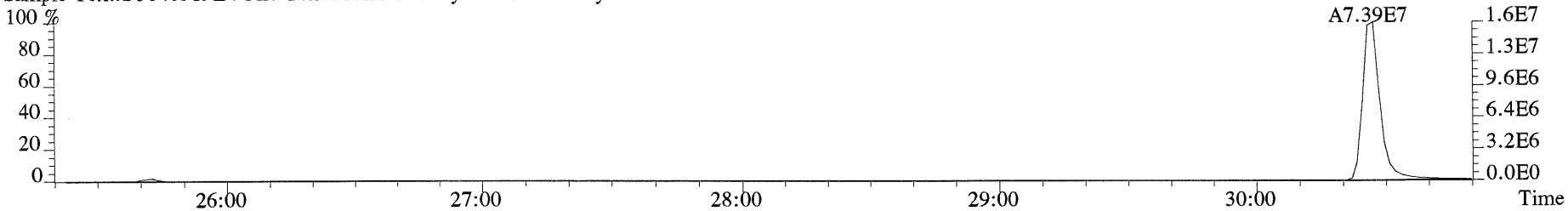
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



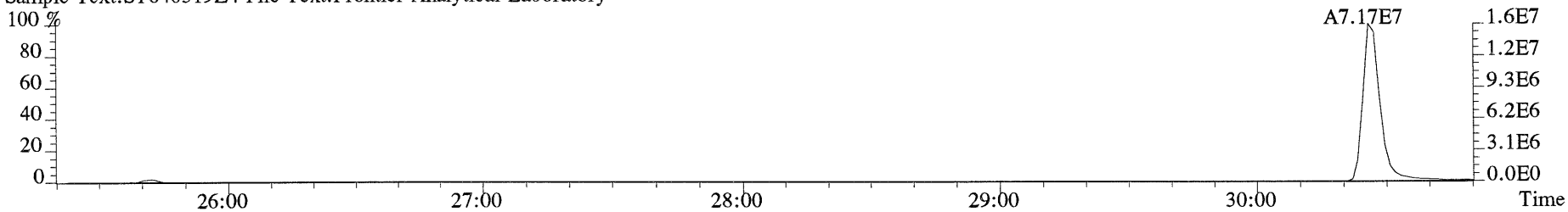
File:03APR19Z #1-520 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



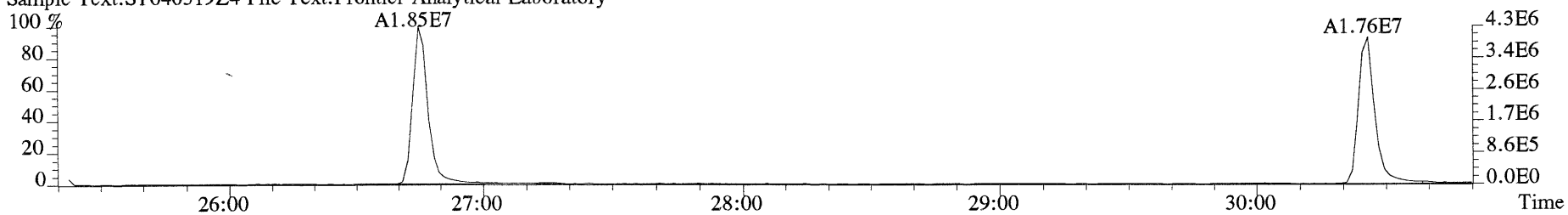
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



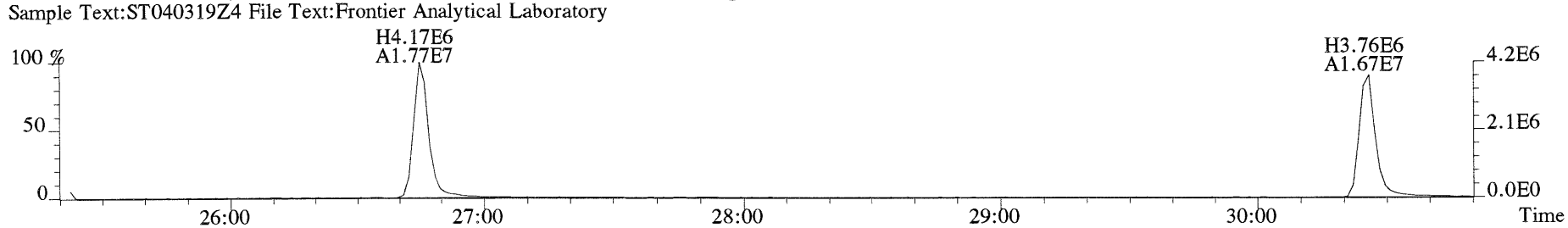
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



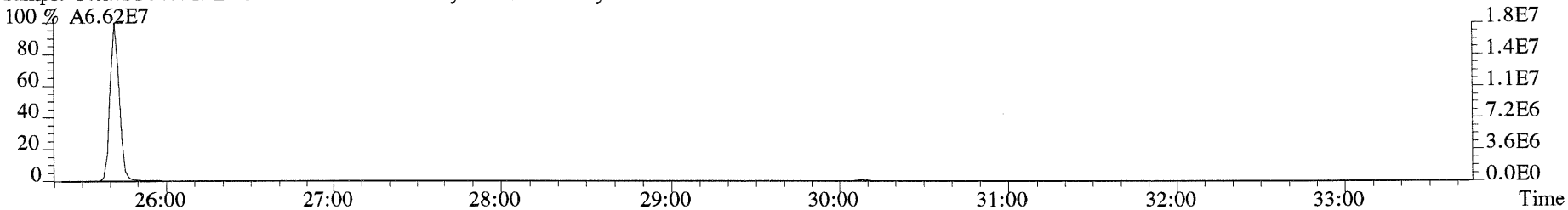
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



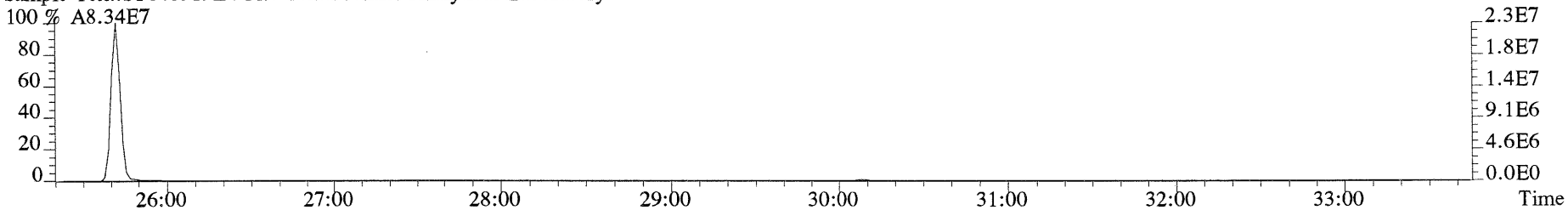
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



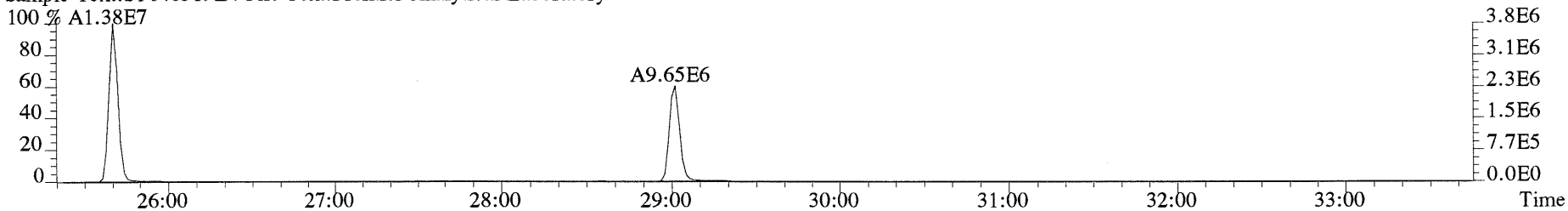
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



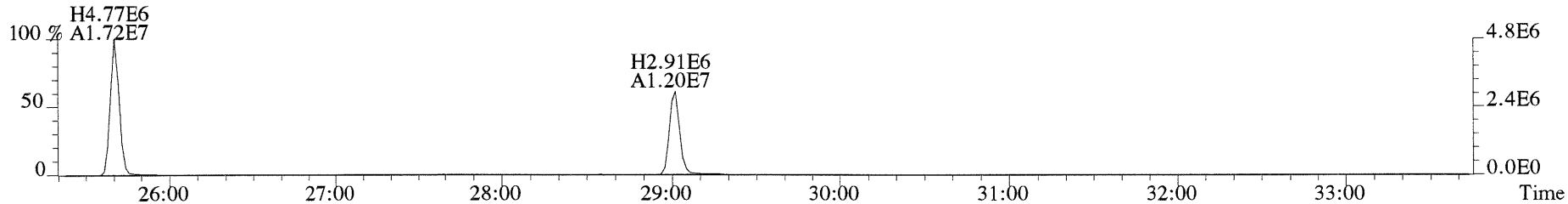
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



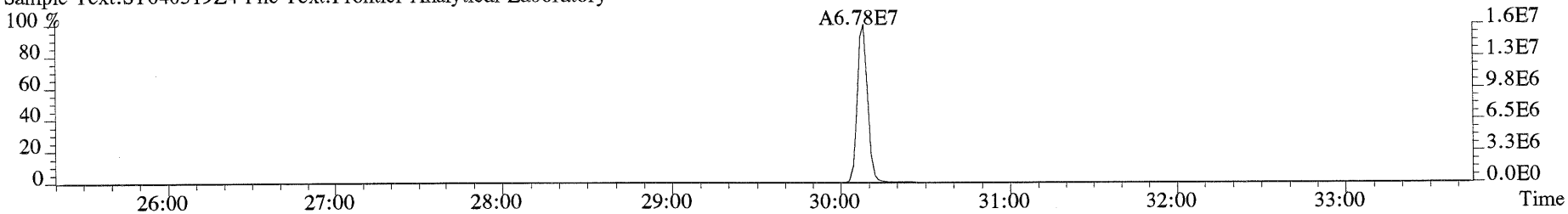
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



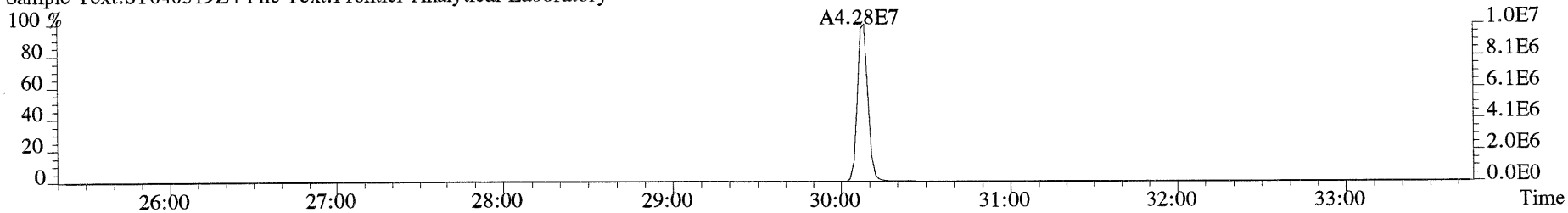
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



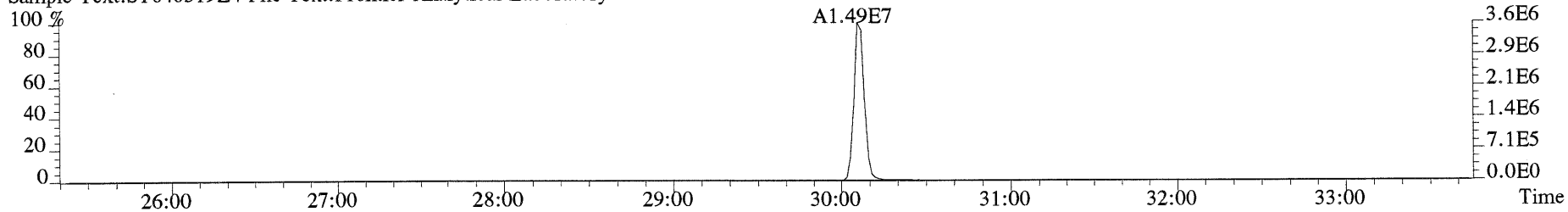
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



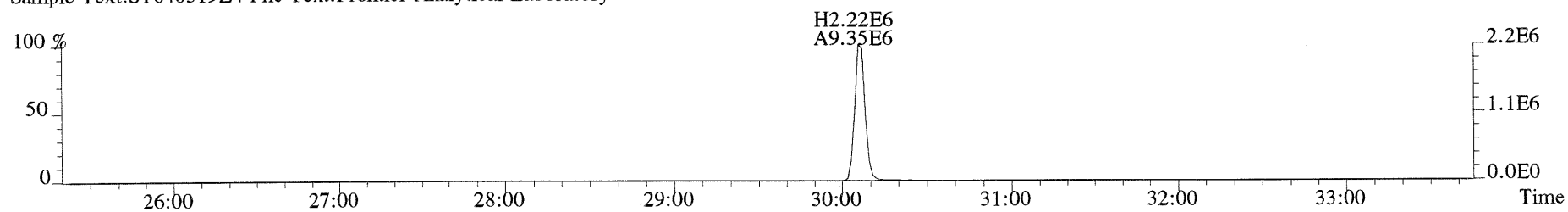
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



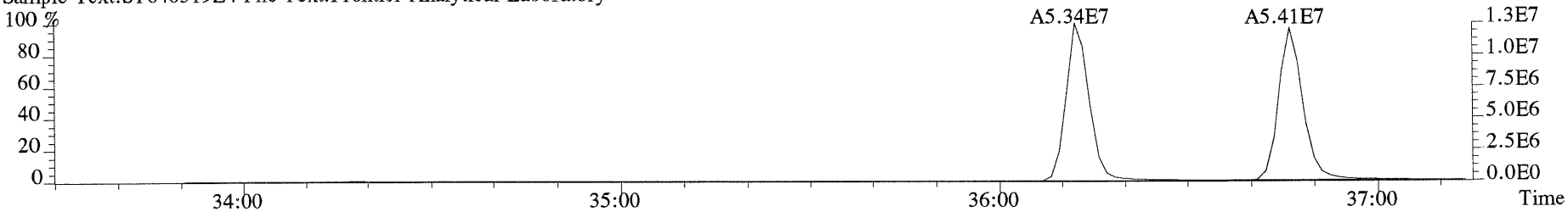
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



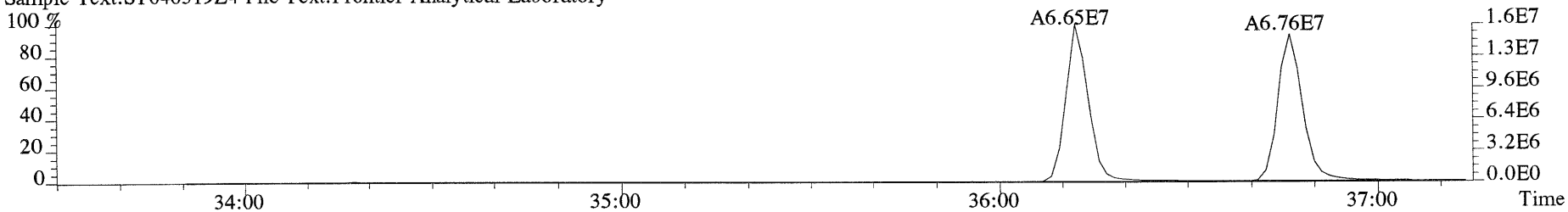
File:03APR19Z #1-401 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



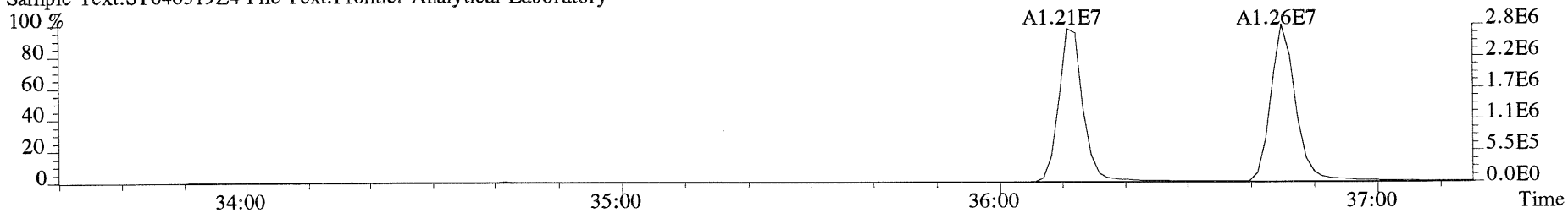
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



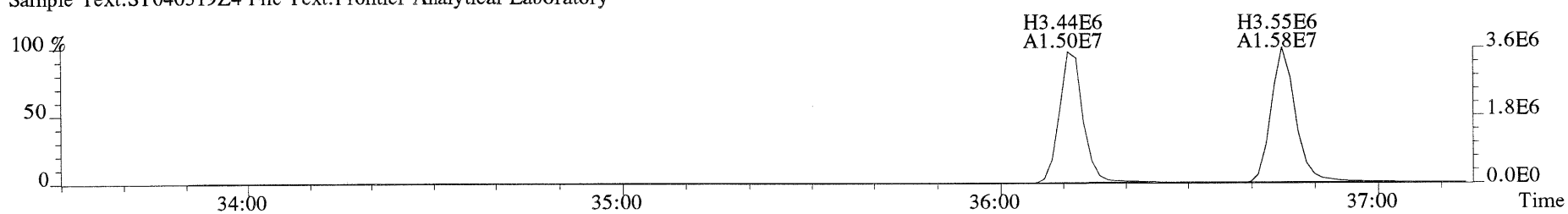
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



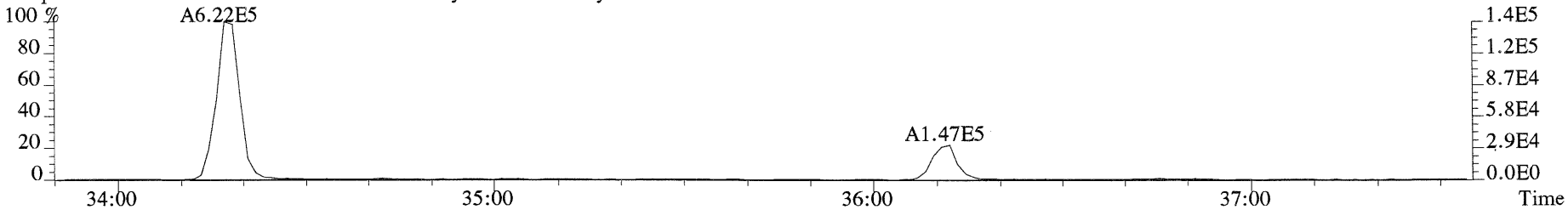
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



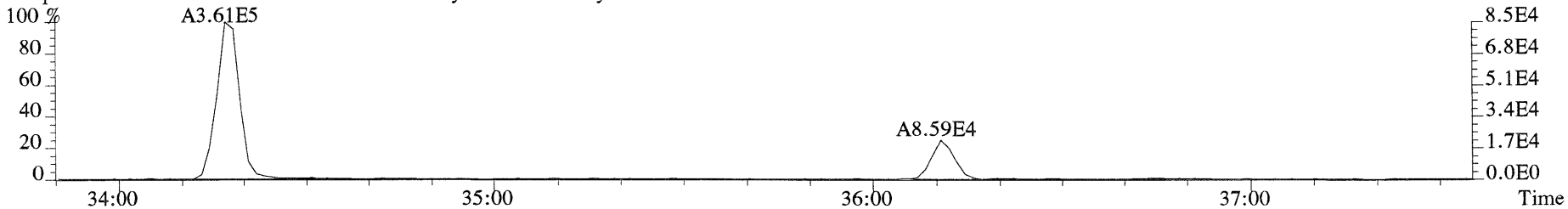
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



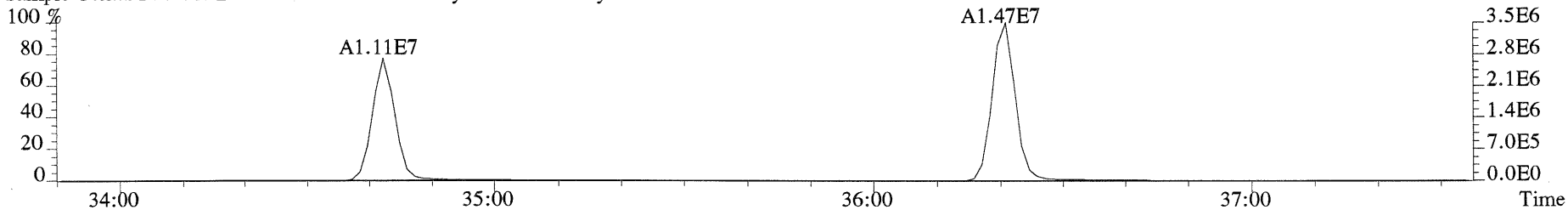
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



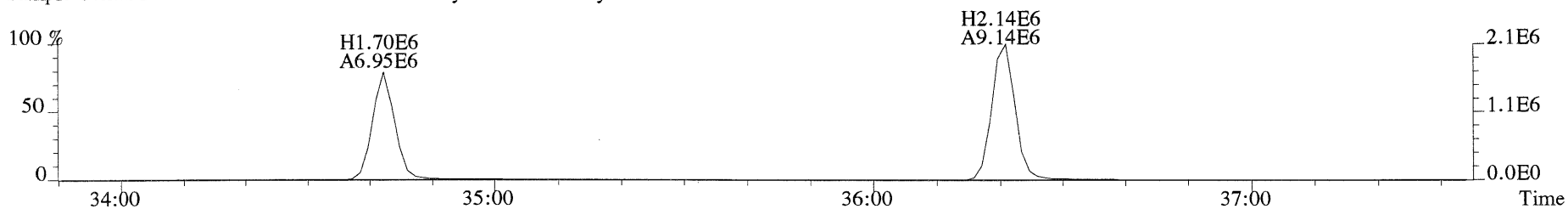
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



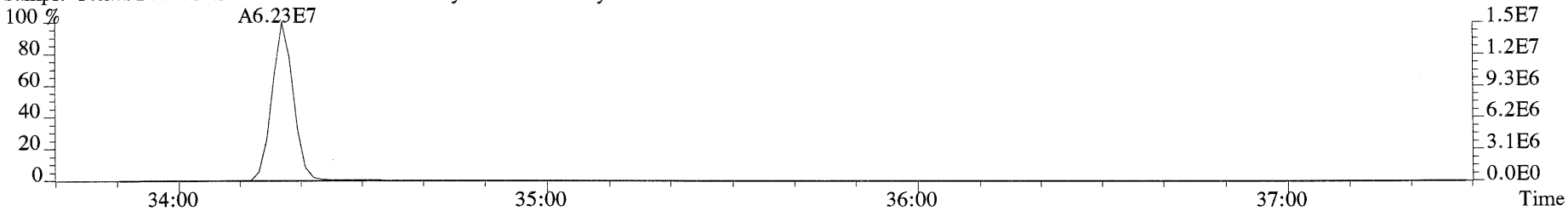
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



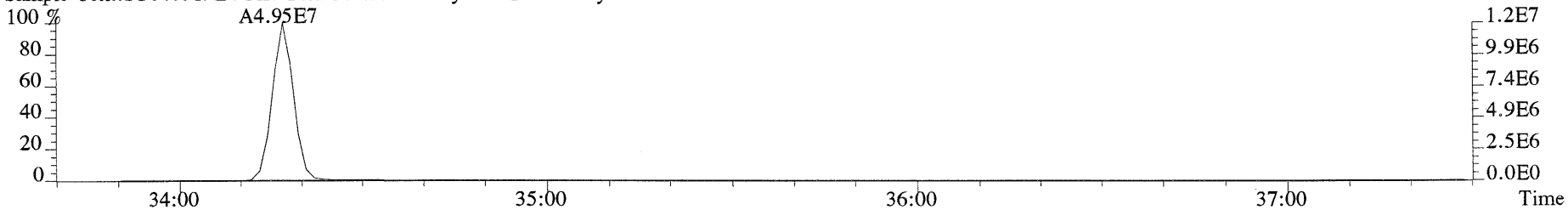
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



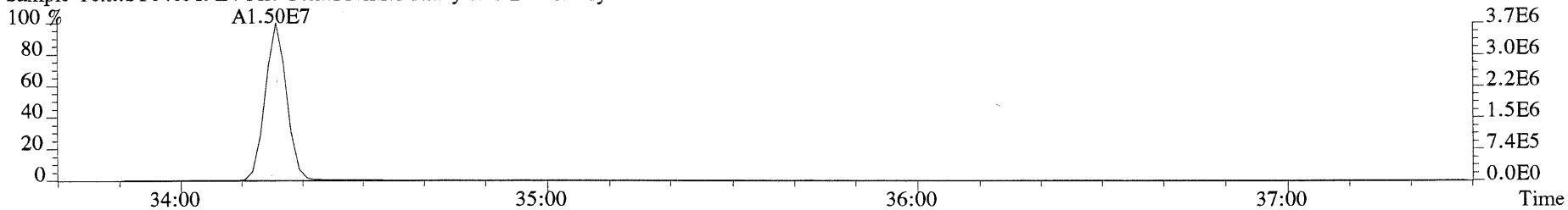
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



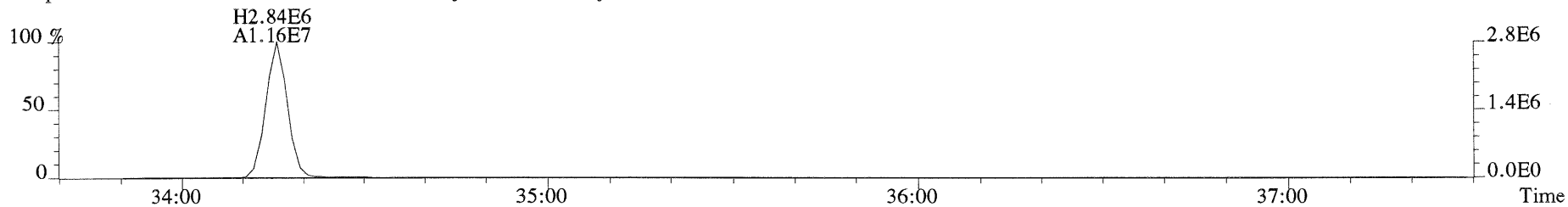
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



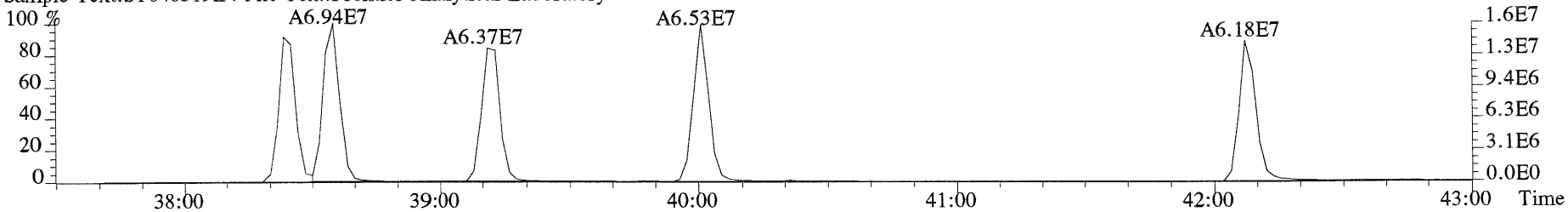
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



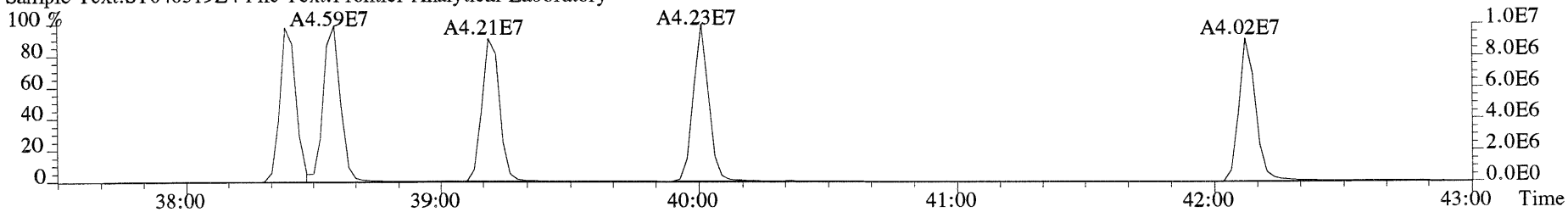
File:03APR19Z #1-181 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



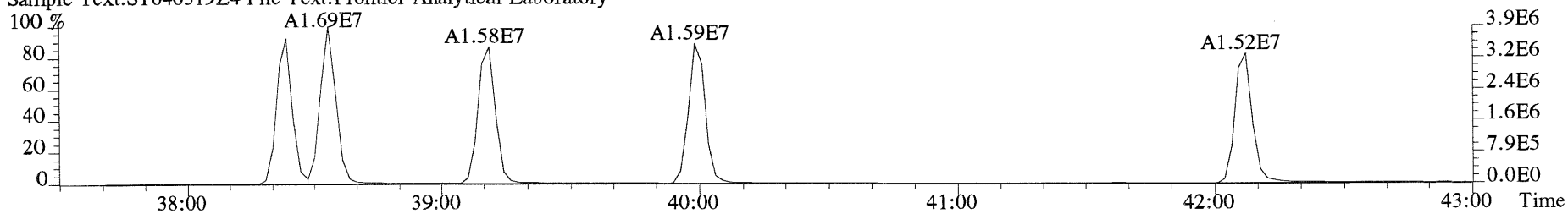
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



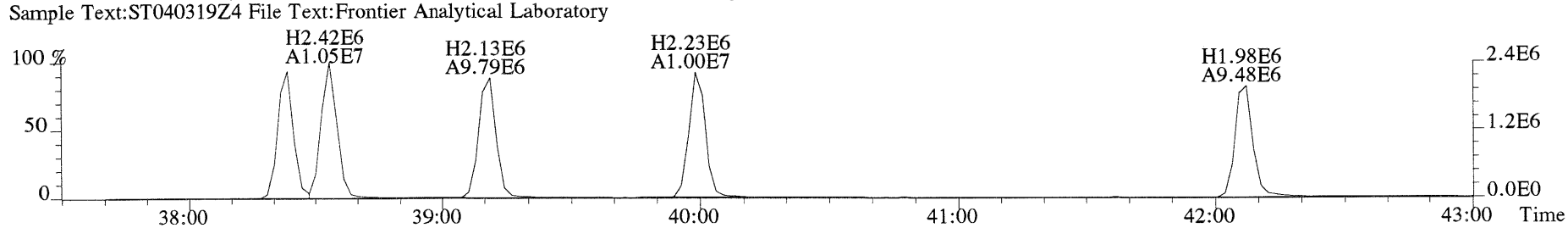
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



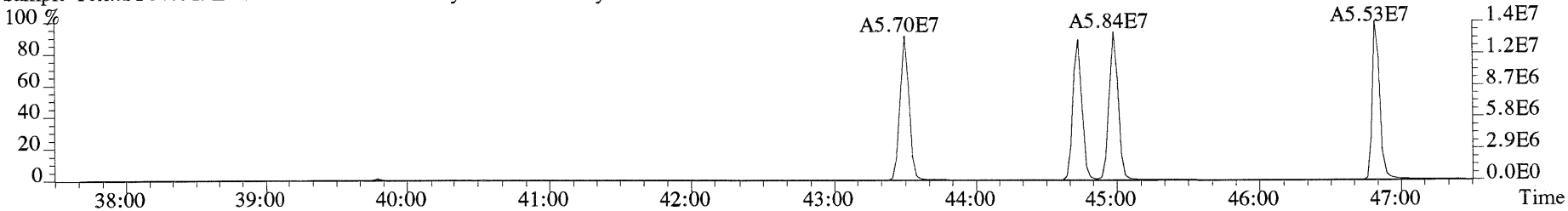
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



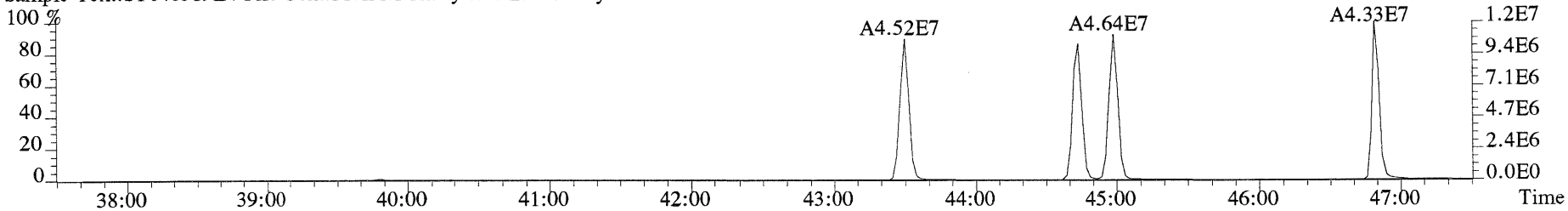
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



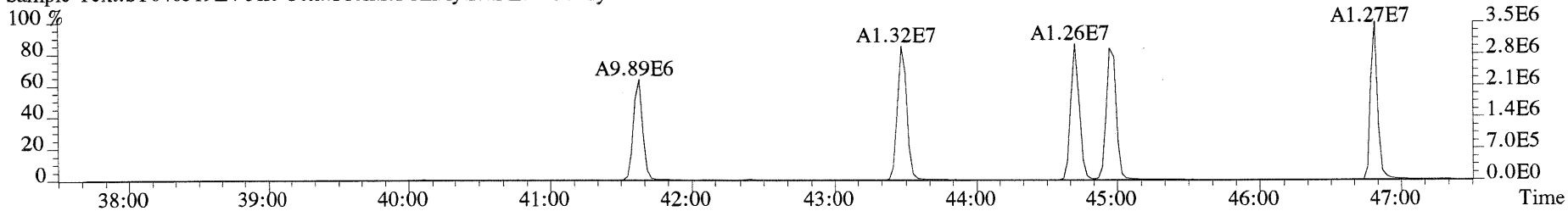
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



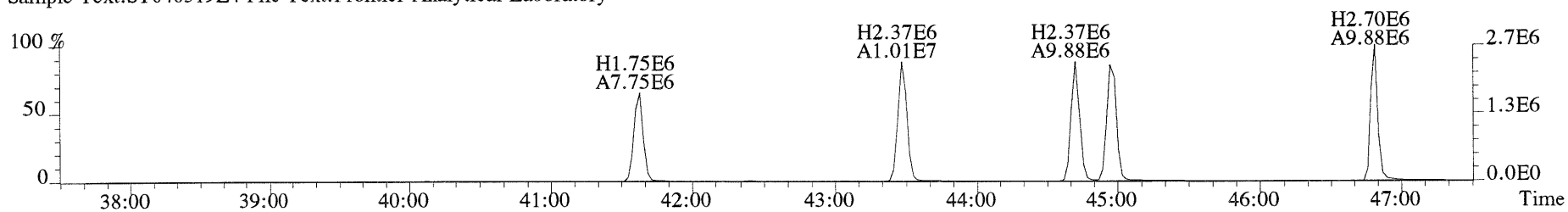
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



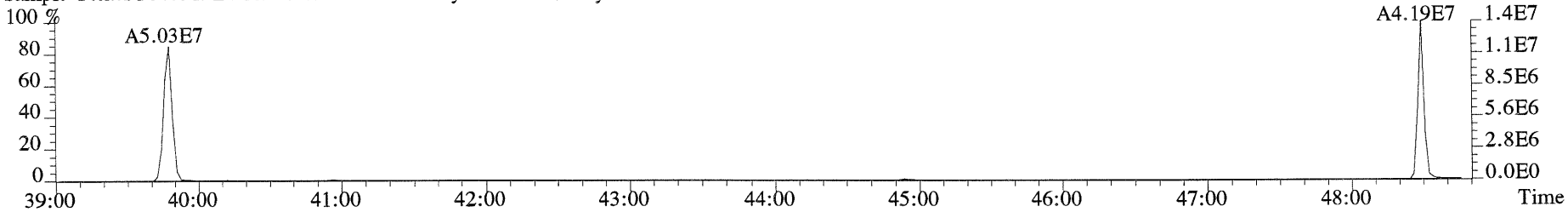
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



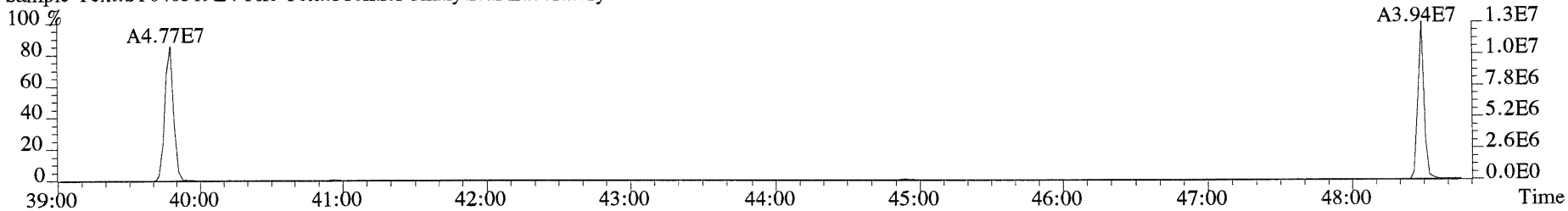
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



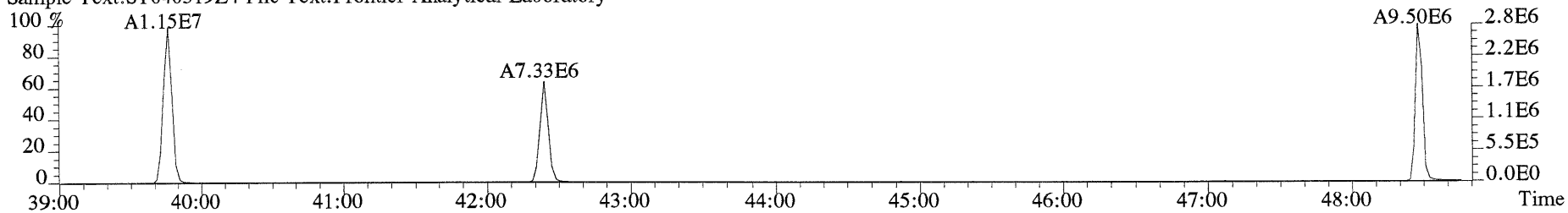
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



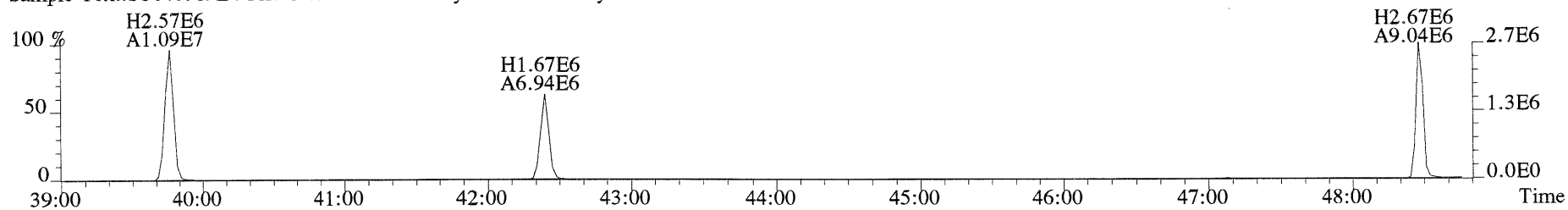
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



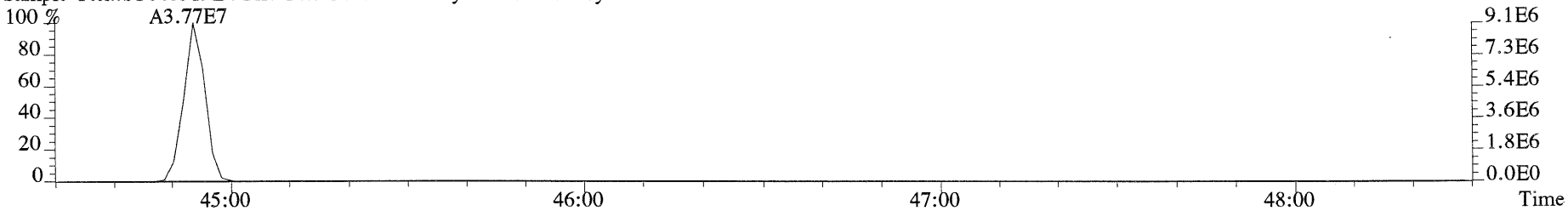
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



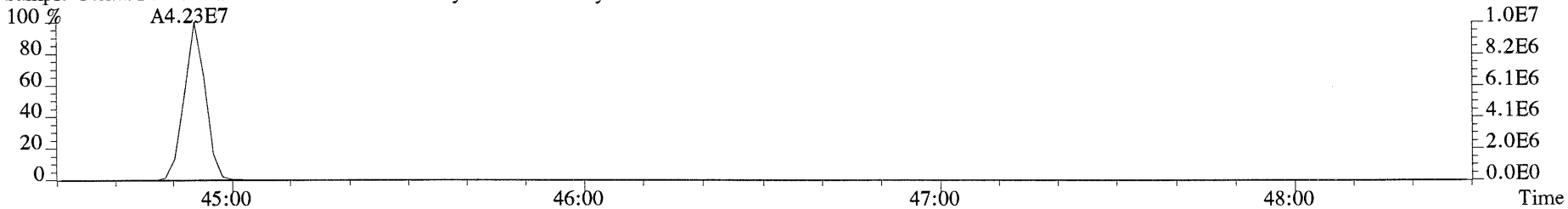
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



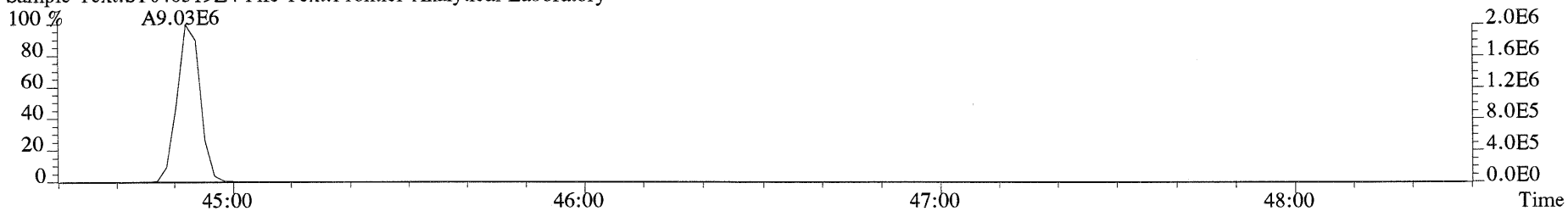
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



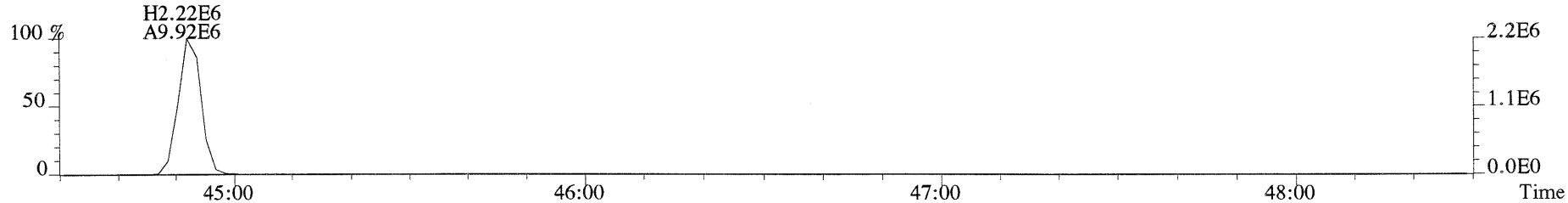
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



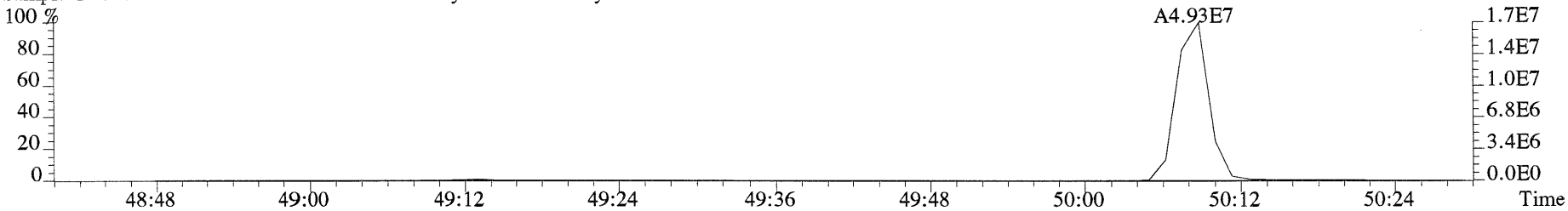
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



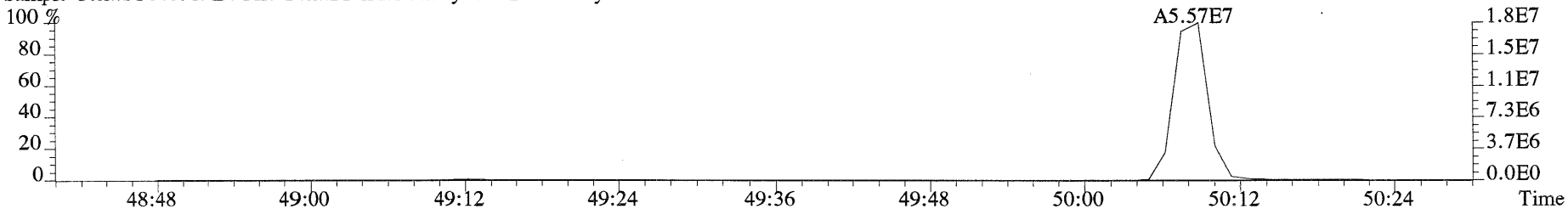
File:03APR19Z #1-405 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



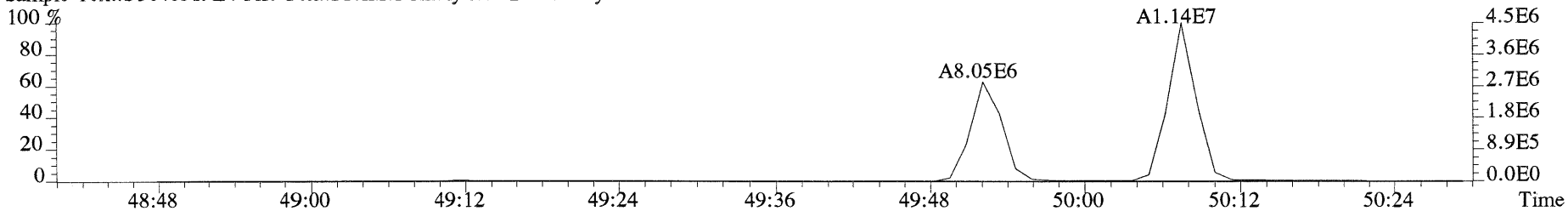
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



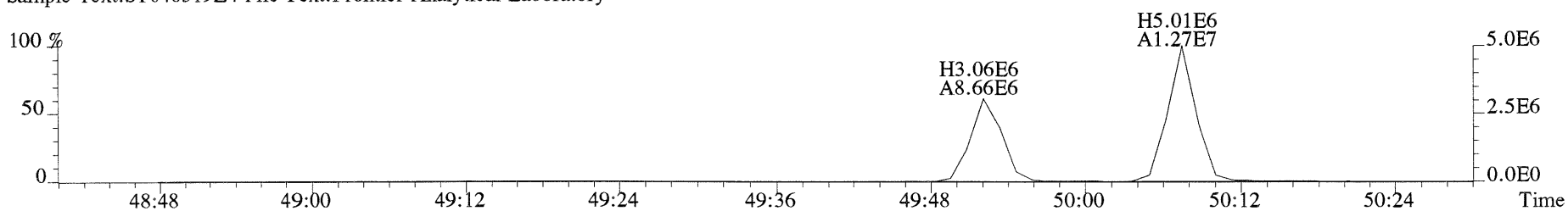
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



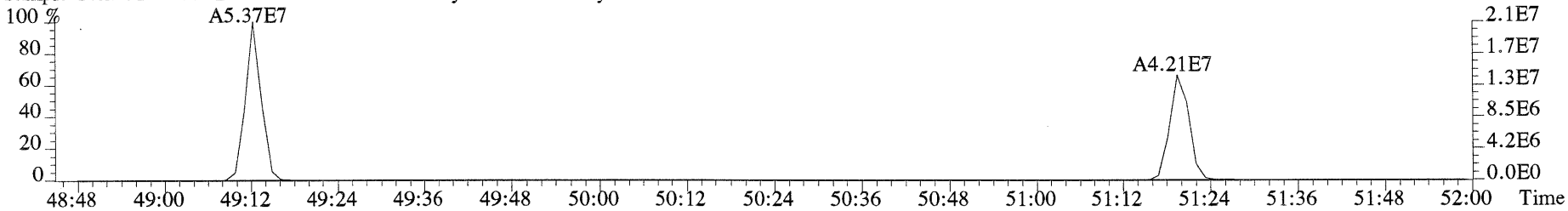
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



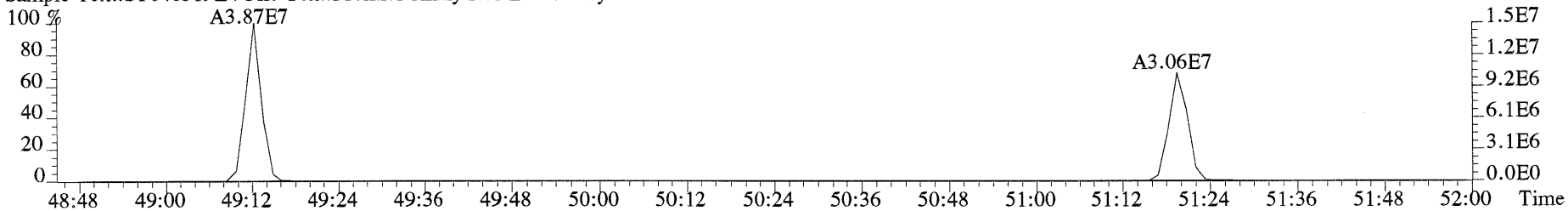
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



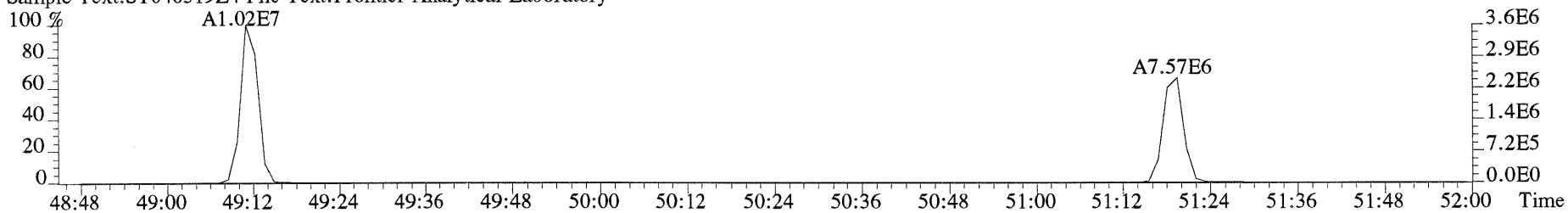
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



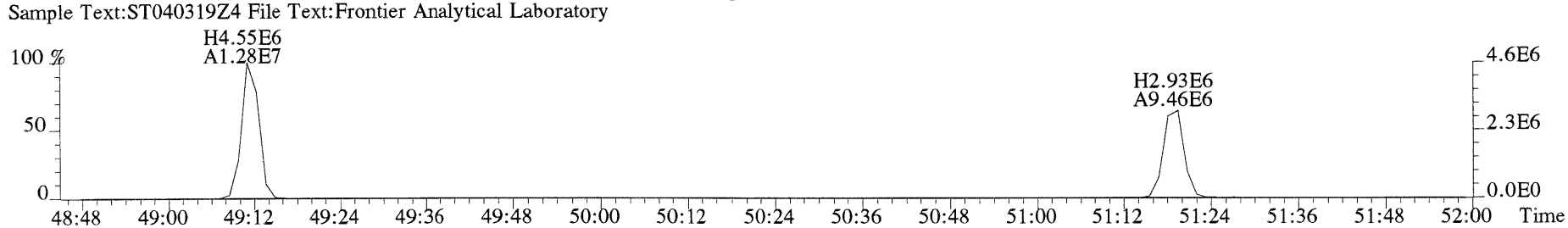
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



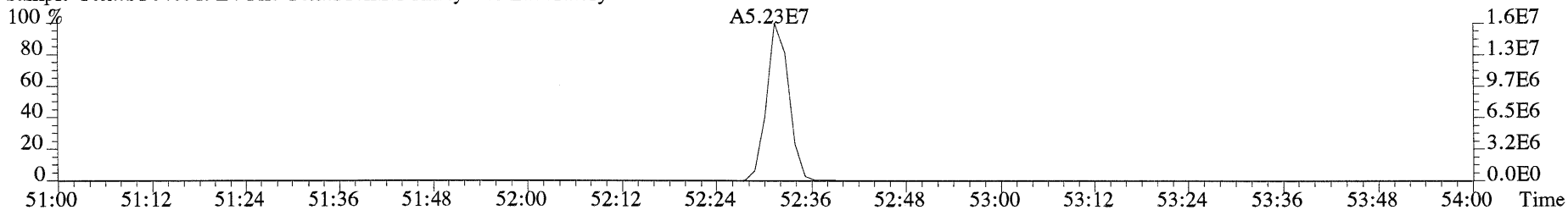
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



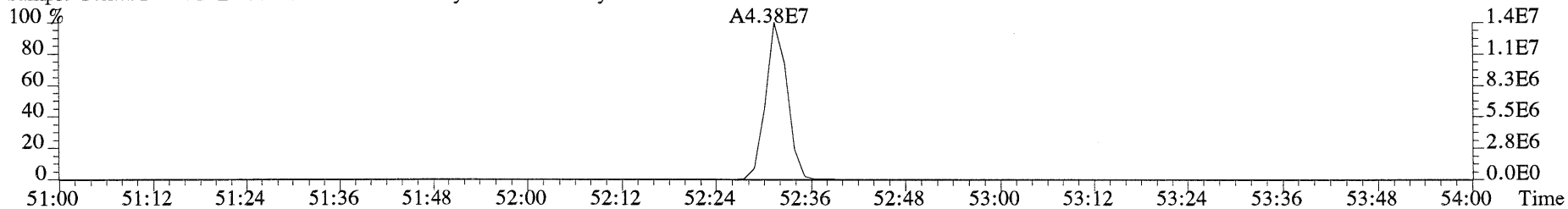
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



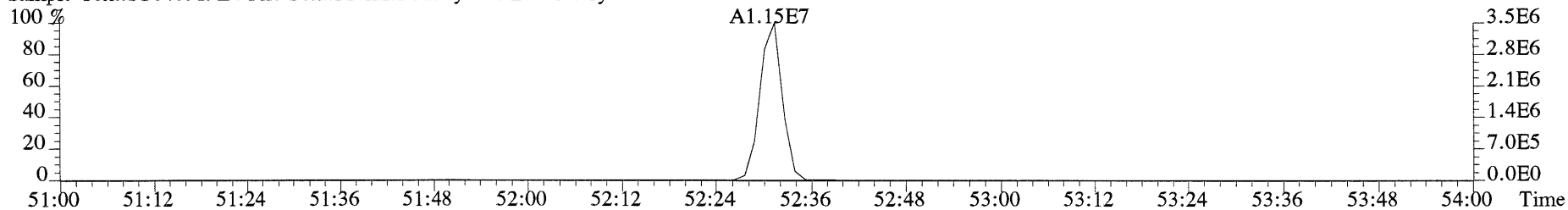
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



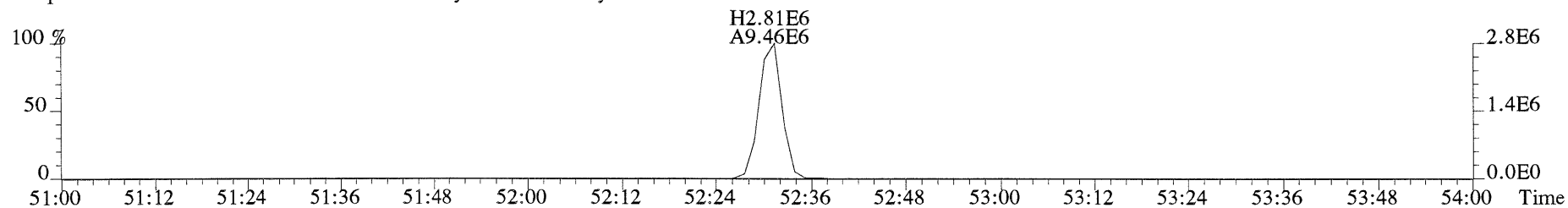
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



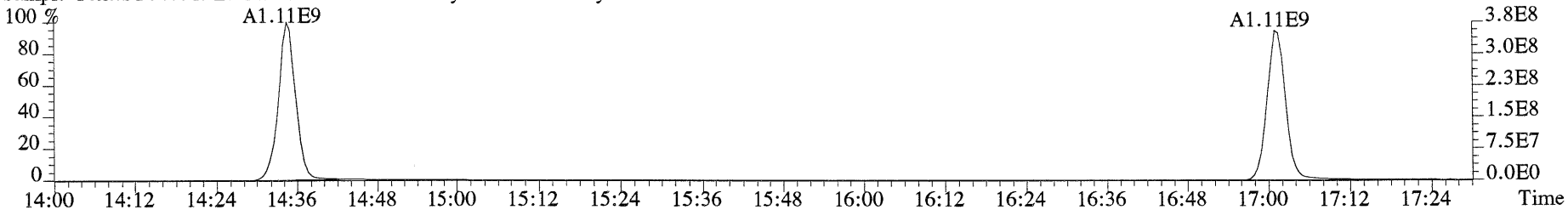
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



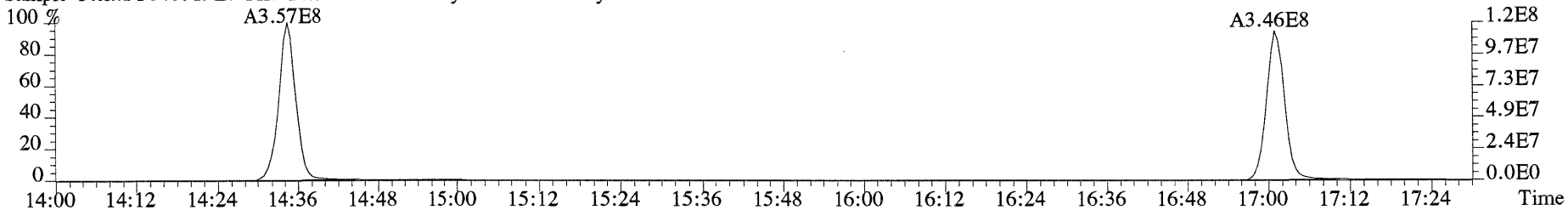
File:03APR19Z #1-315 Acq: 3-APR-2019 11:35:43 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z4 File Text:Frontier Analytical Laboratory



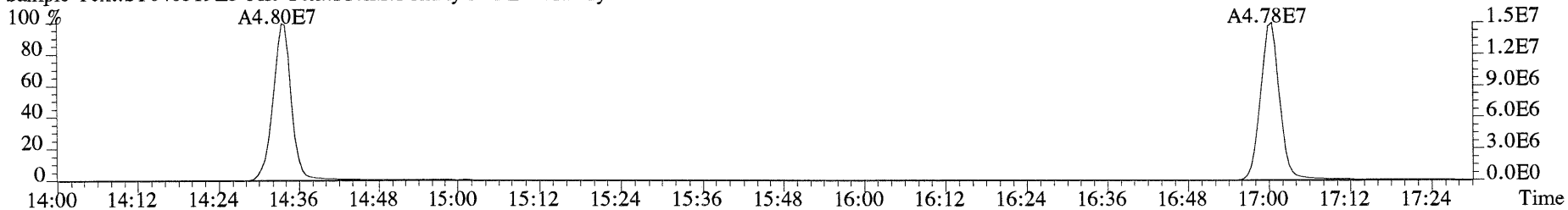
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



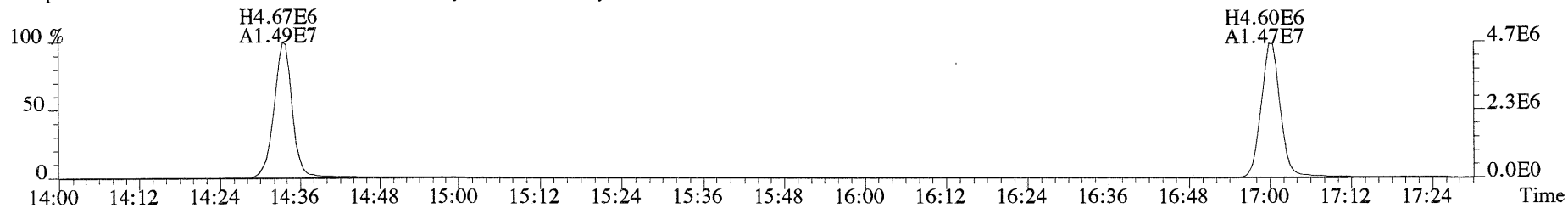
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



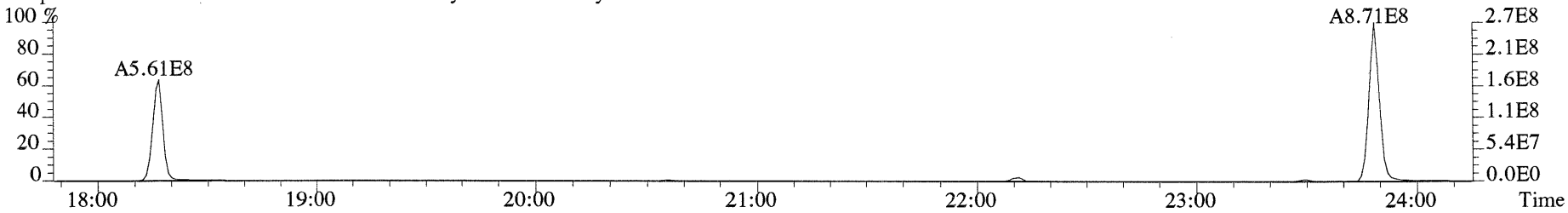
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



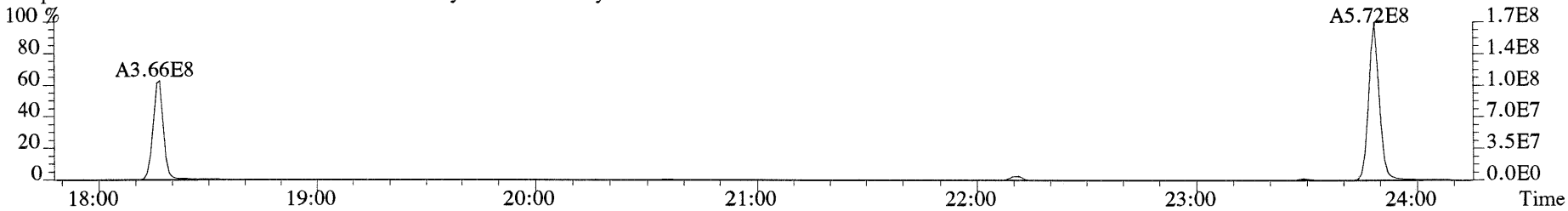
File:03APR19Z #1-783 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



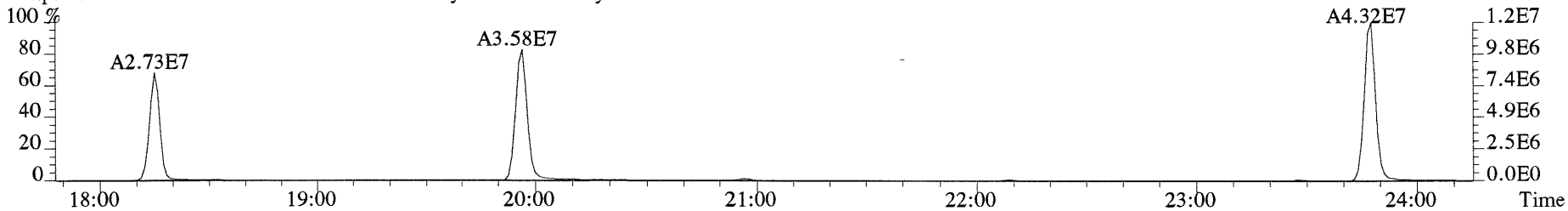
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



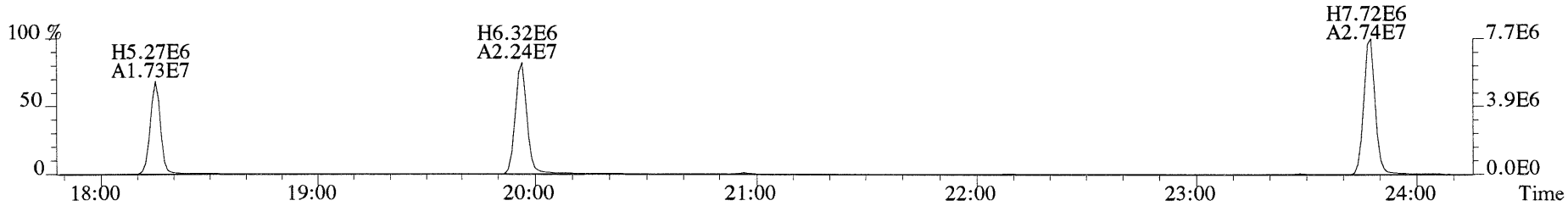
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



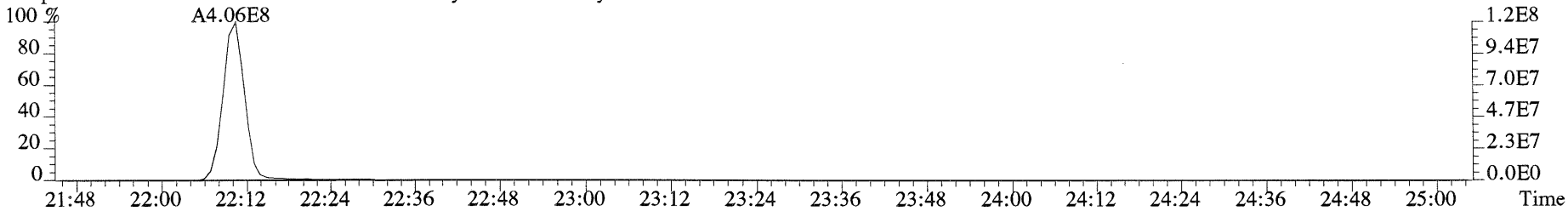
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



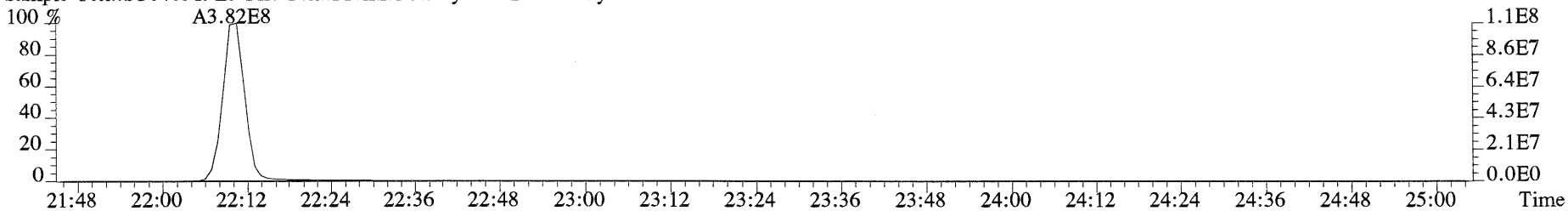
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



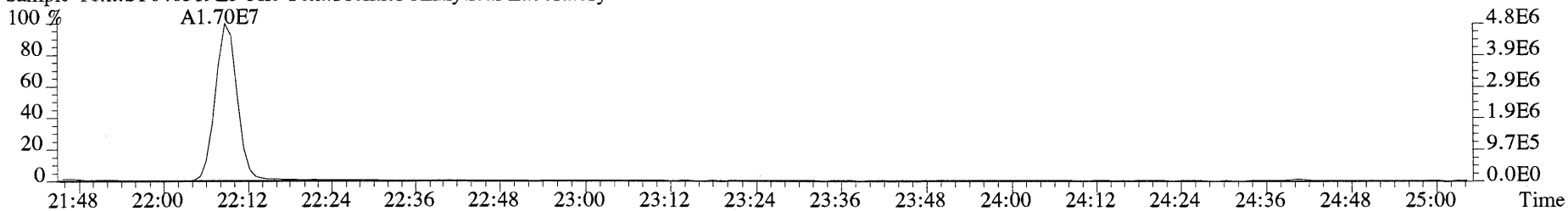
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



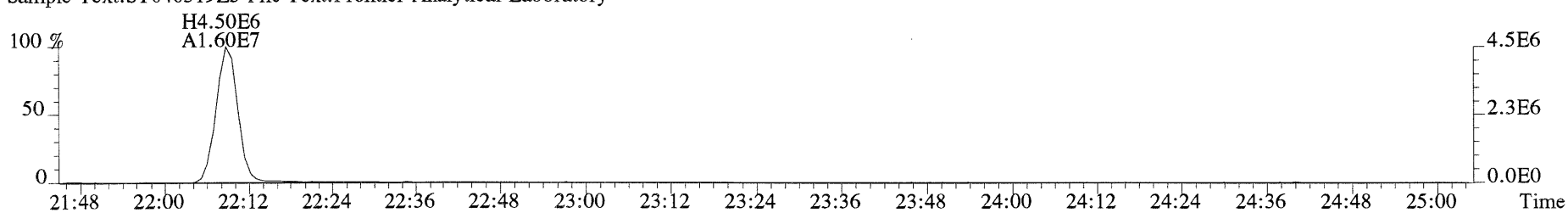
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



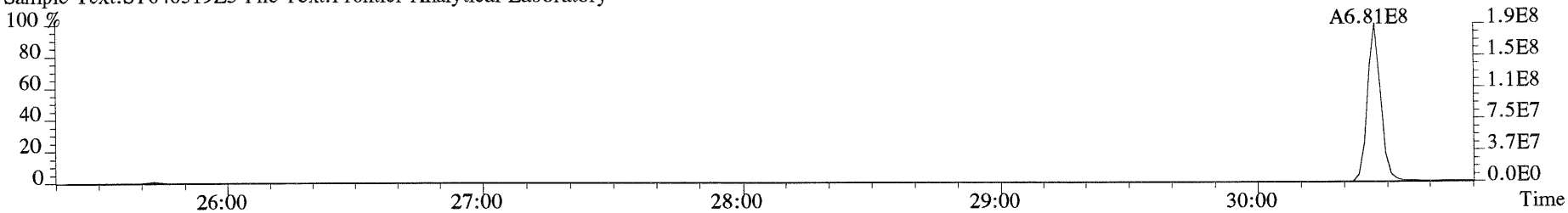
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



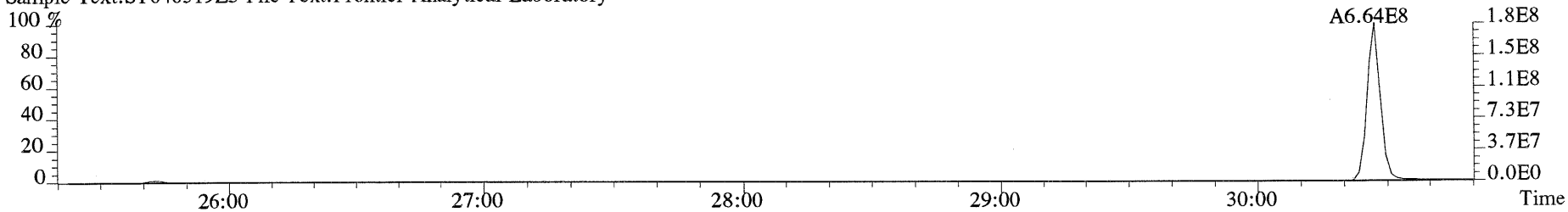
File:03APR19Z #1-520 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



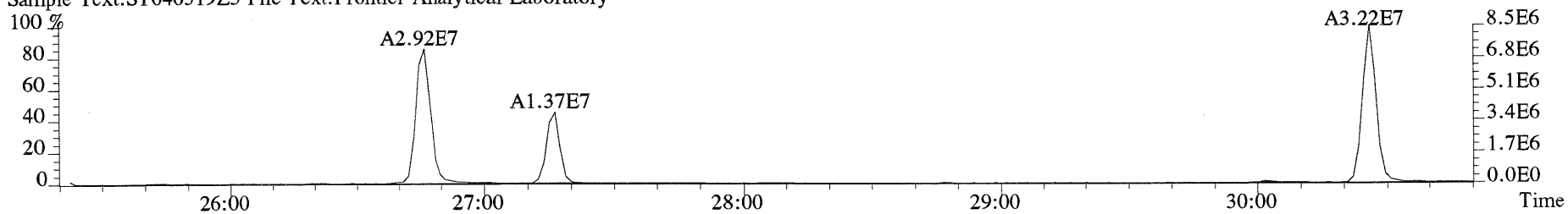
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



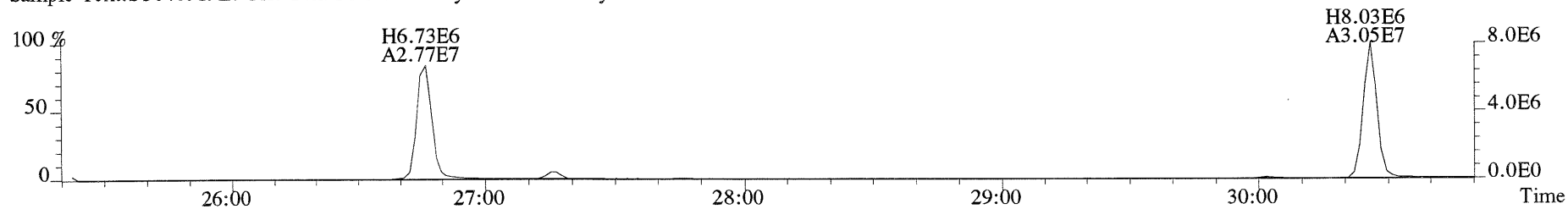
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



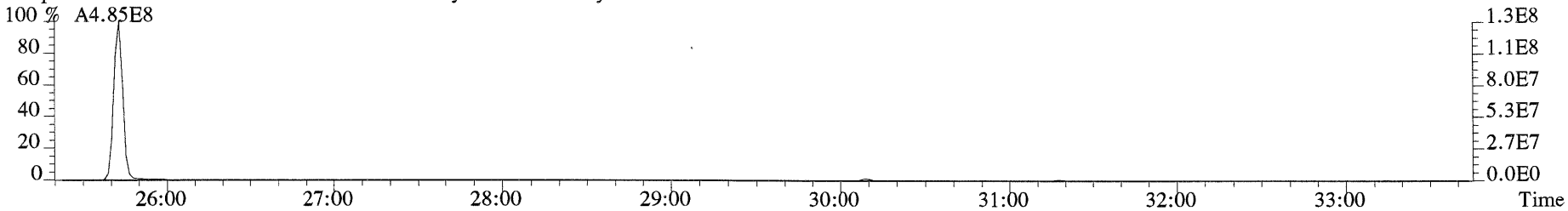
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



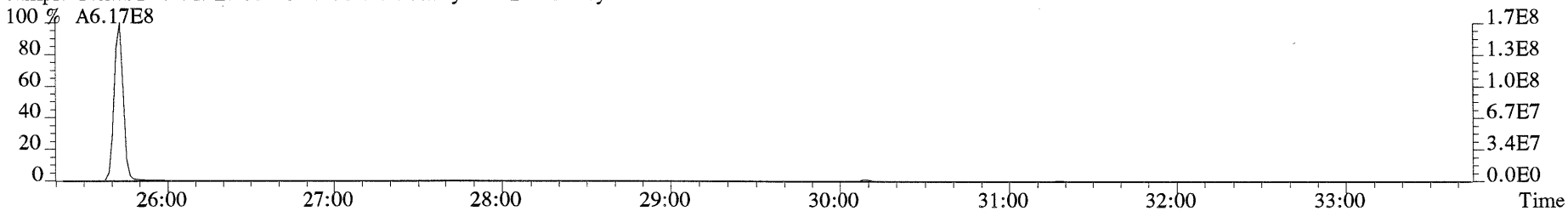
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



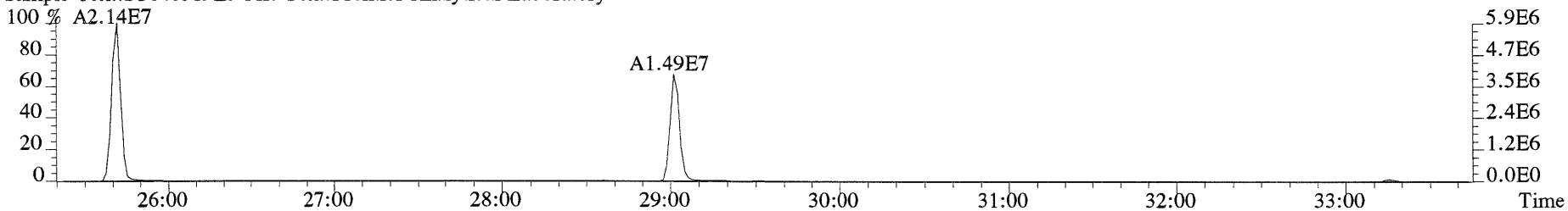
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



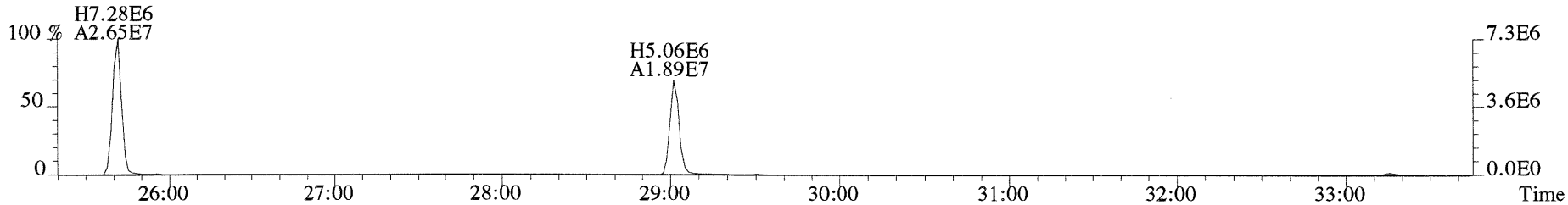
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



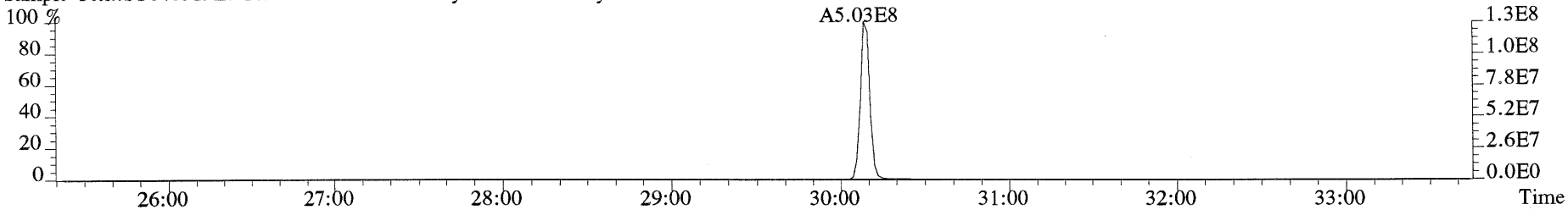
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



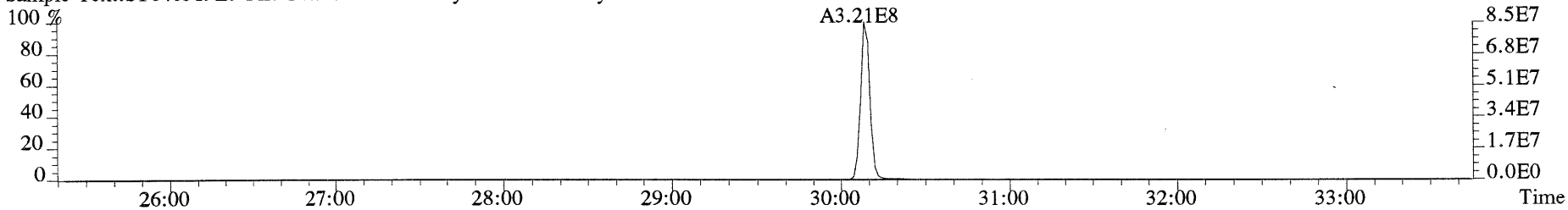
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



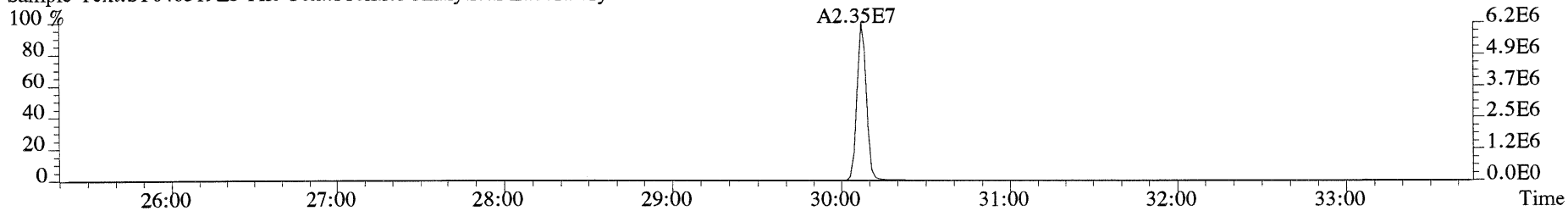
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



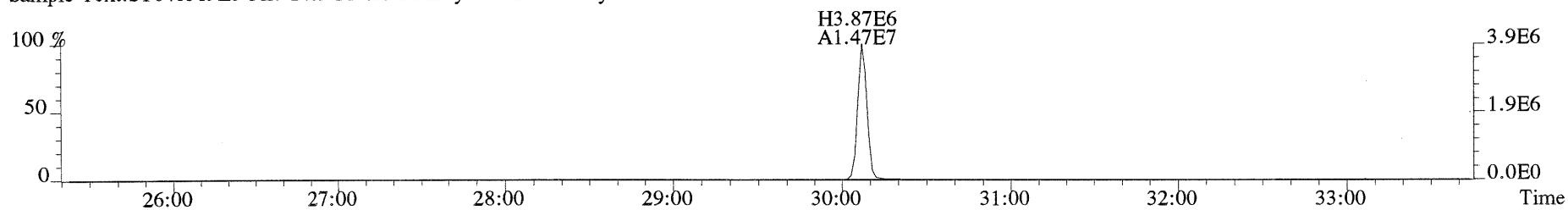
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



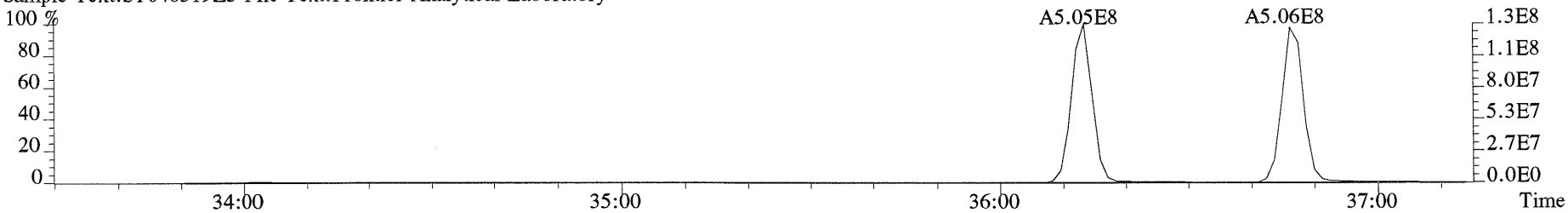
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



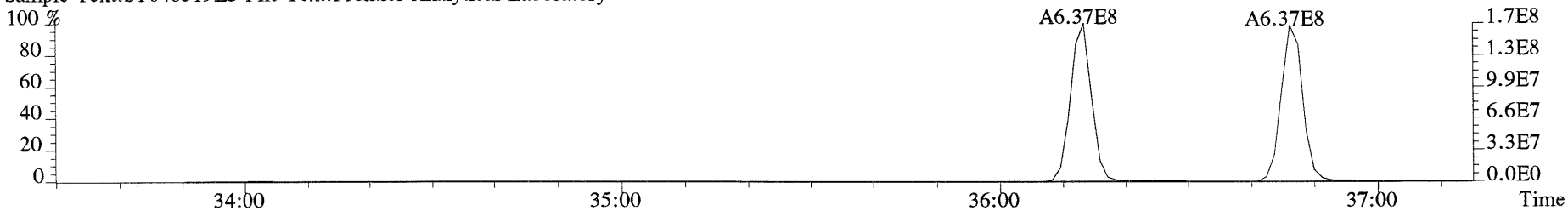
File:03APR19Z #1-401 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



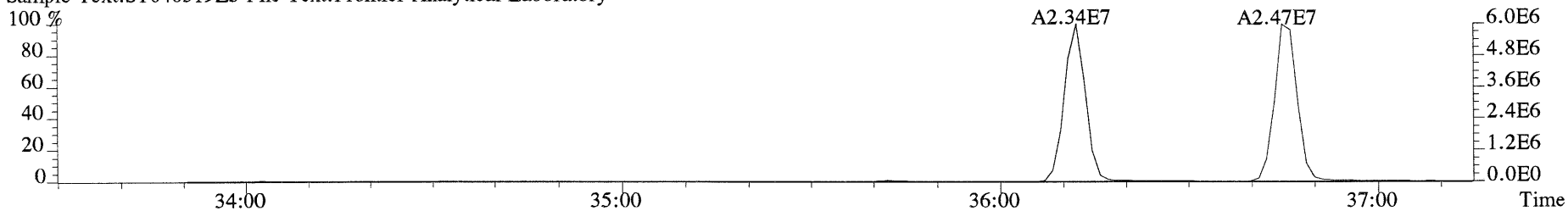
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



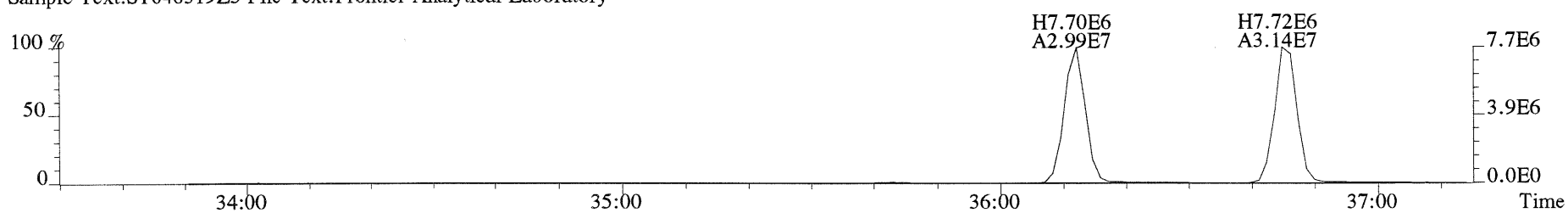
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



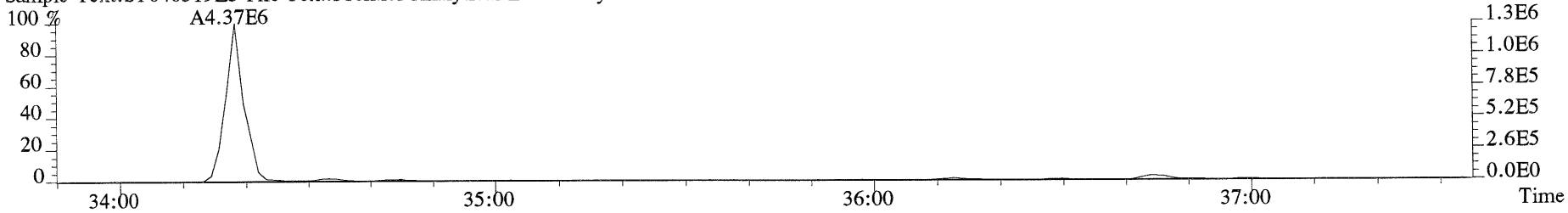
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



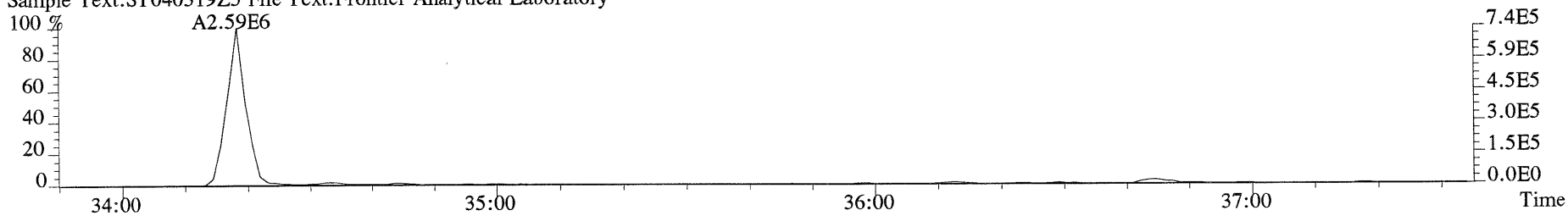
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



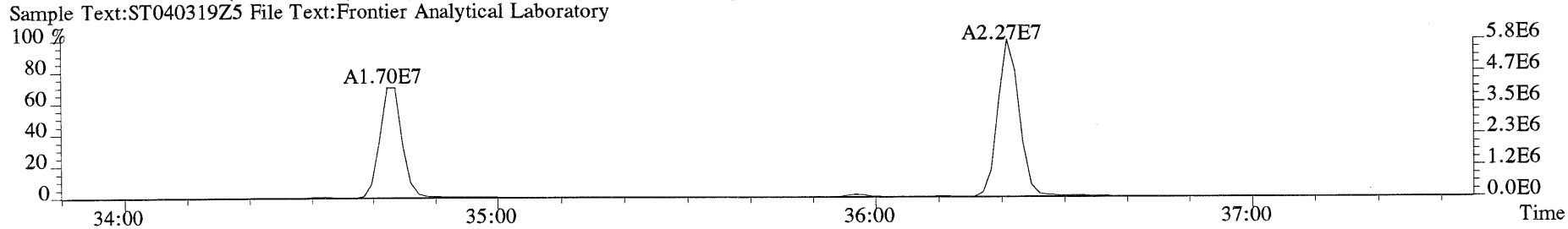
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



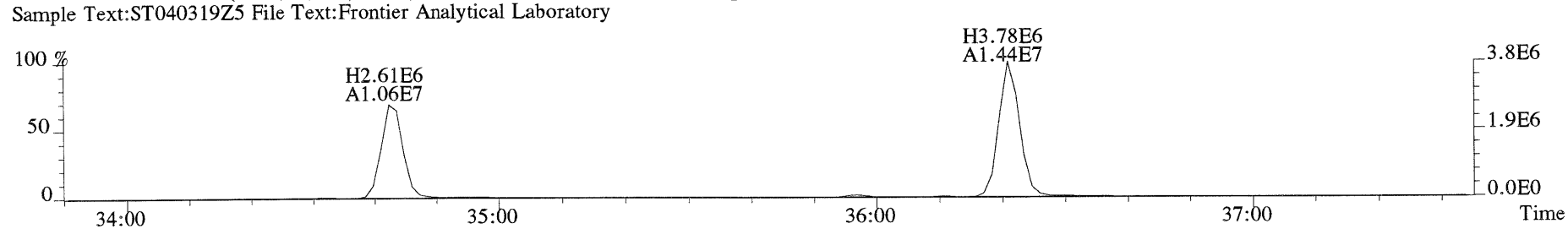
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



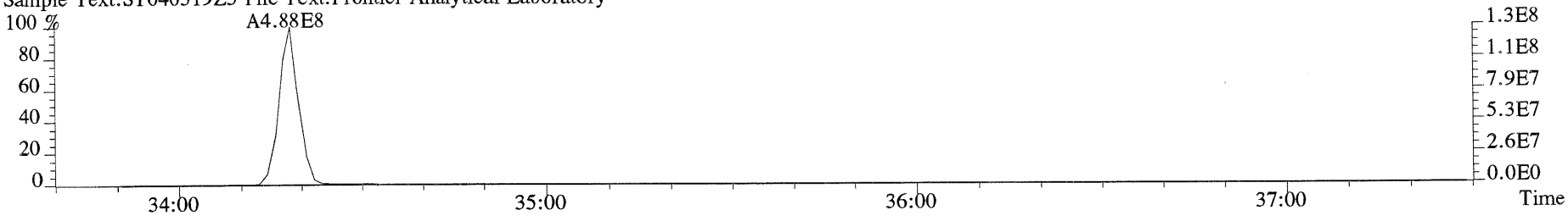
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



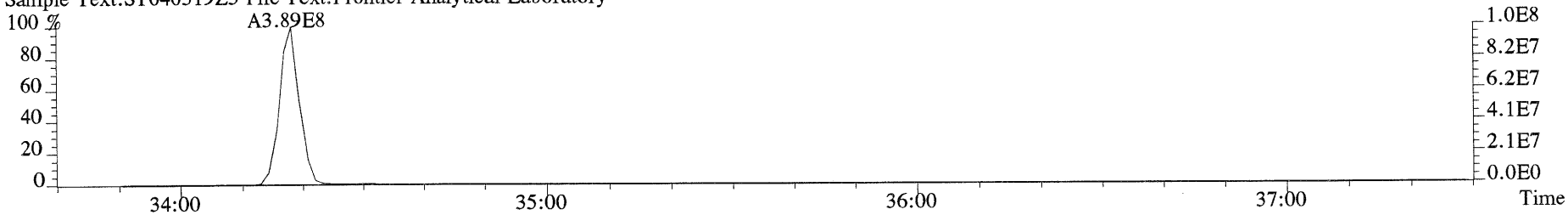
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



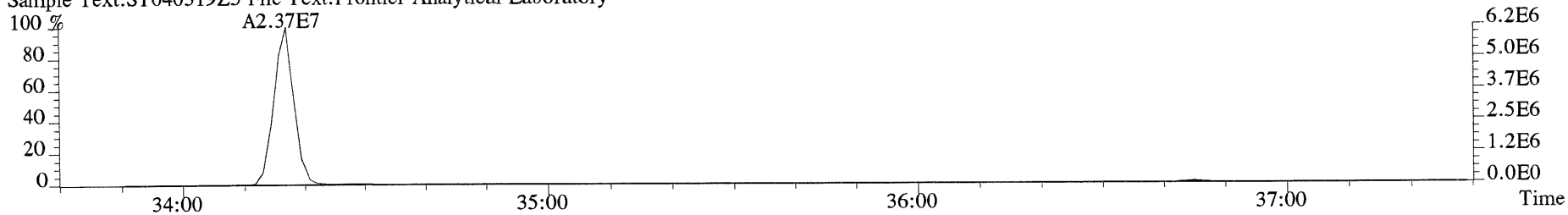
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



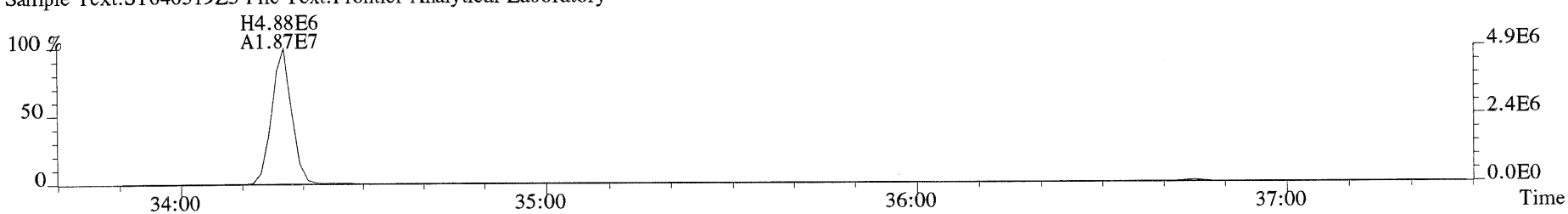
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



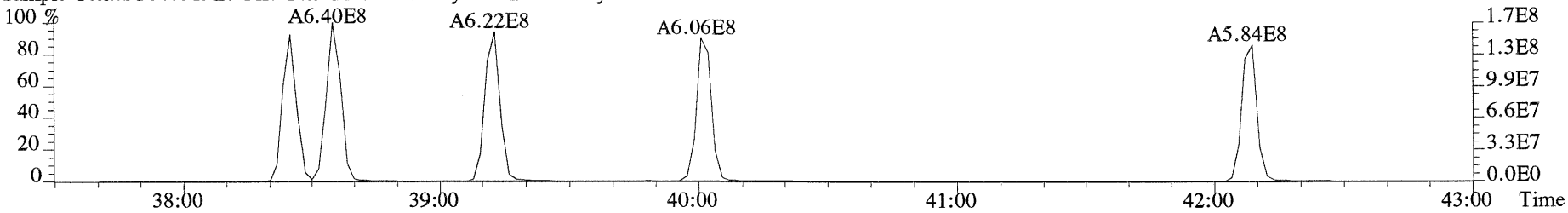
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



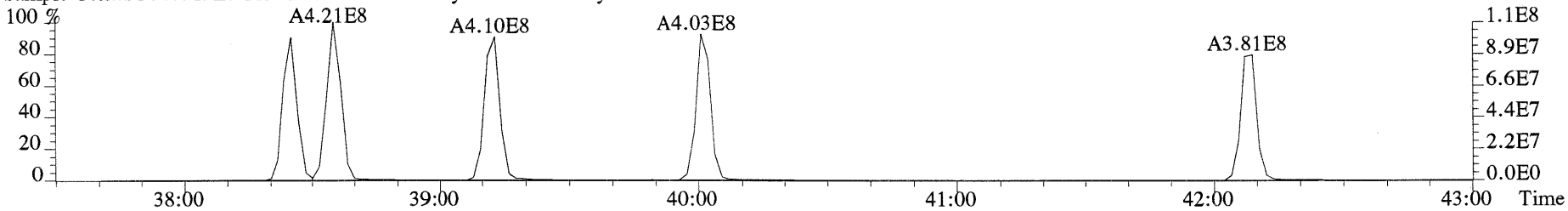
File:03APR19Z #1-181 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



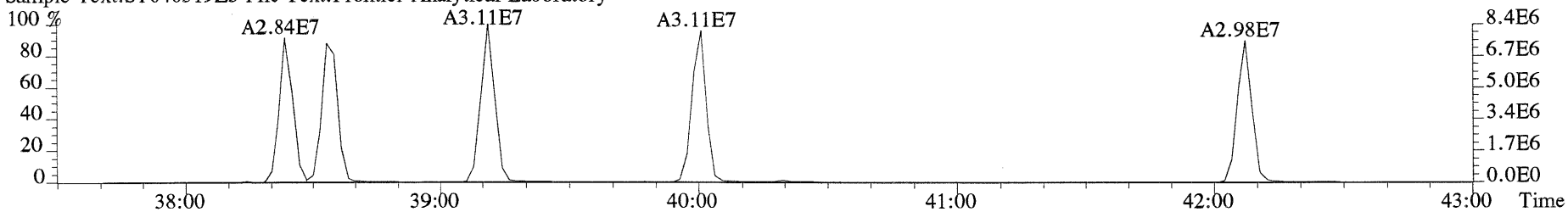
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



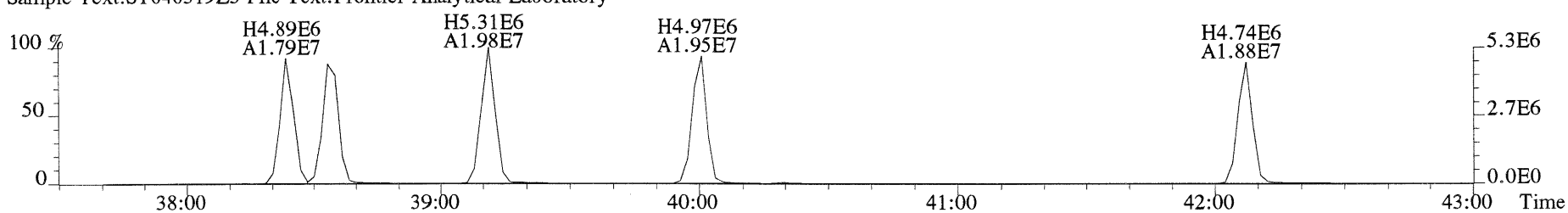
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



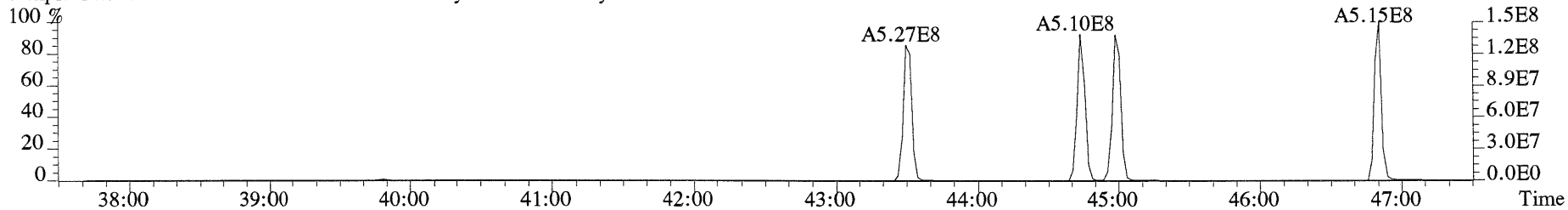
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



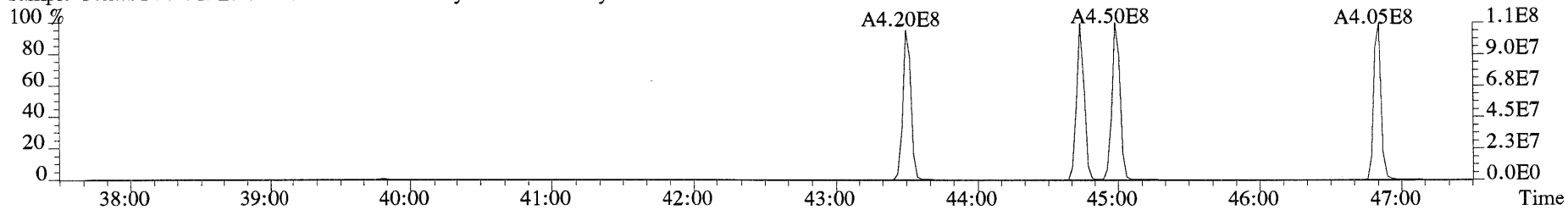
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



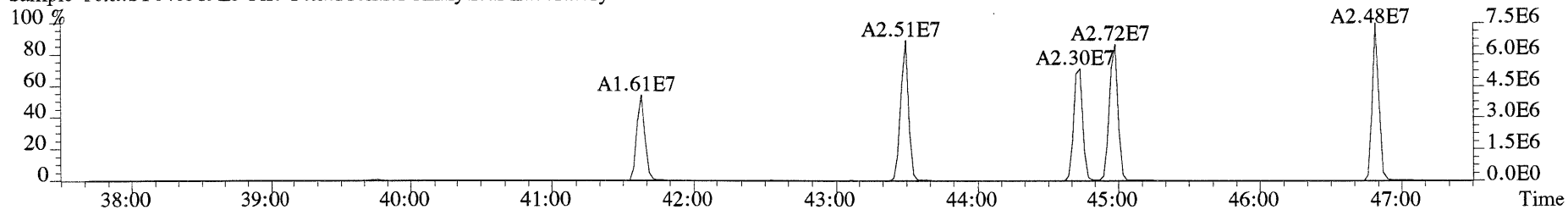
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



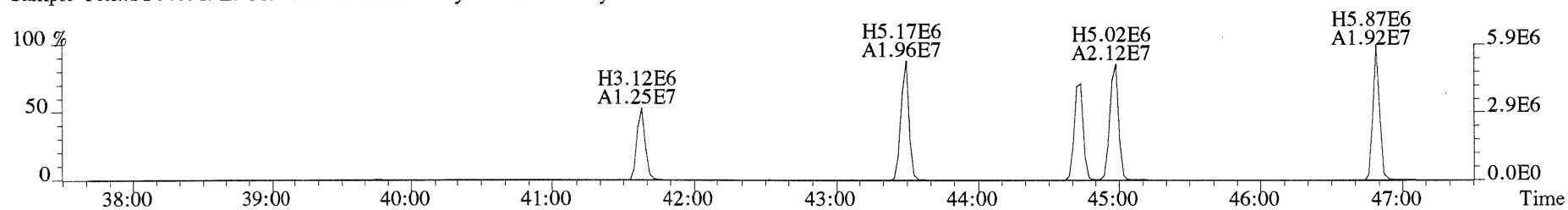
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



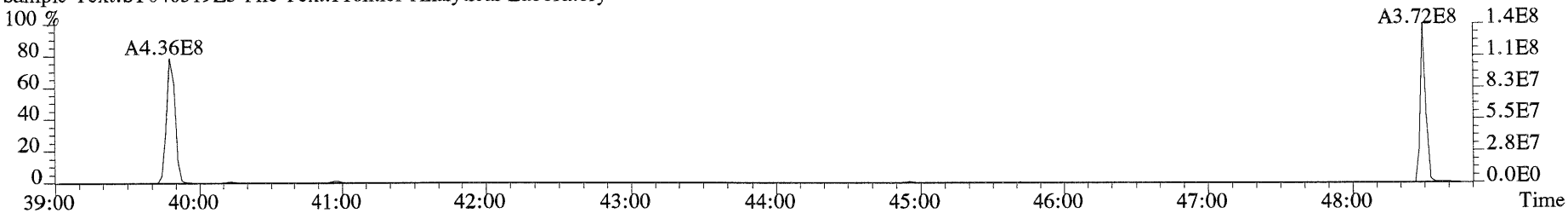
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



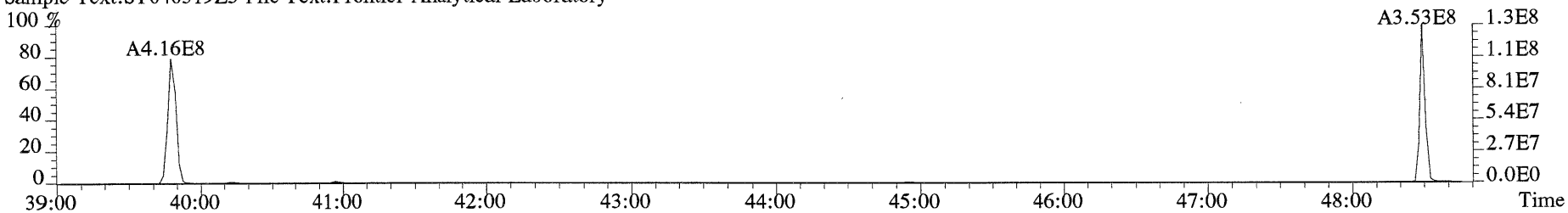
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



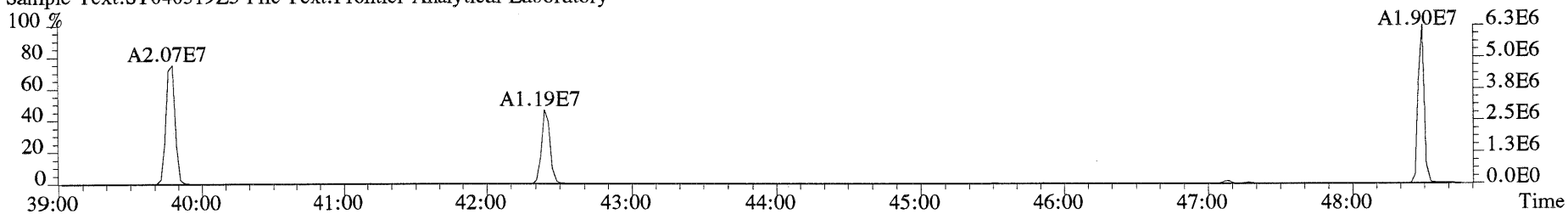
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



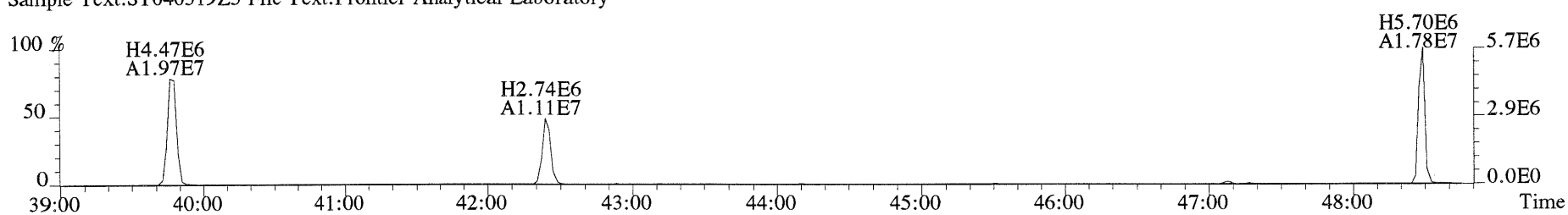
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



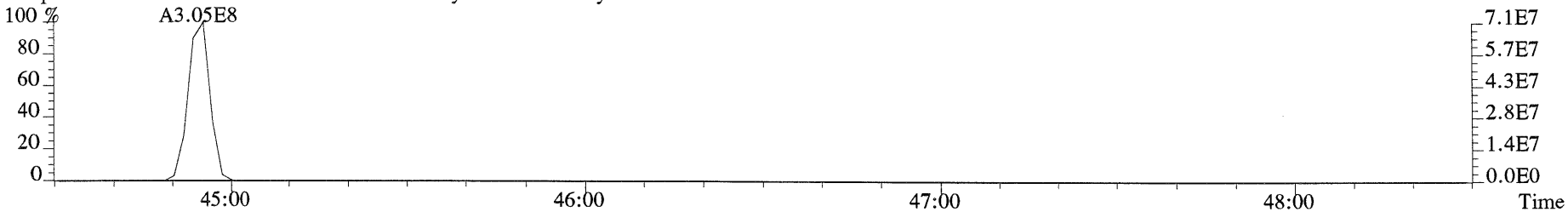
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



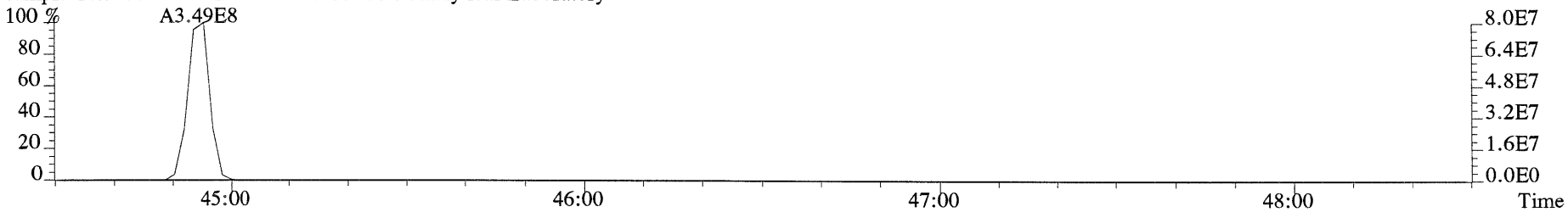
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



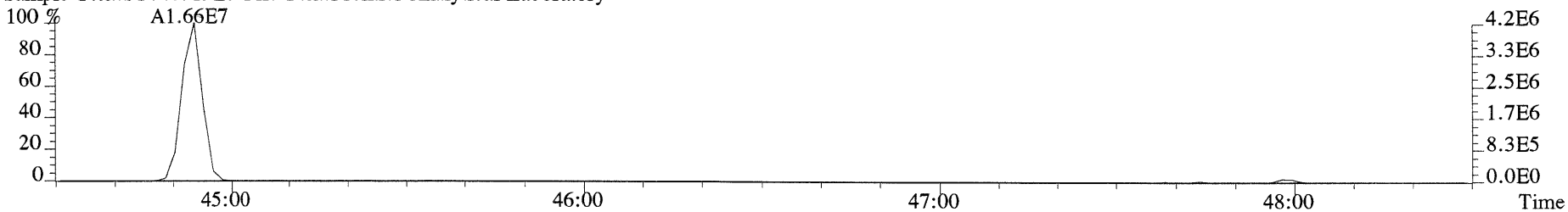
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



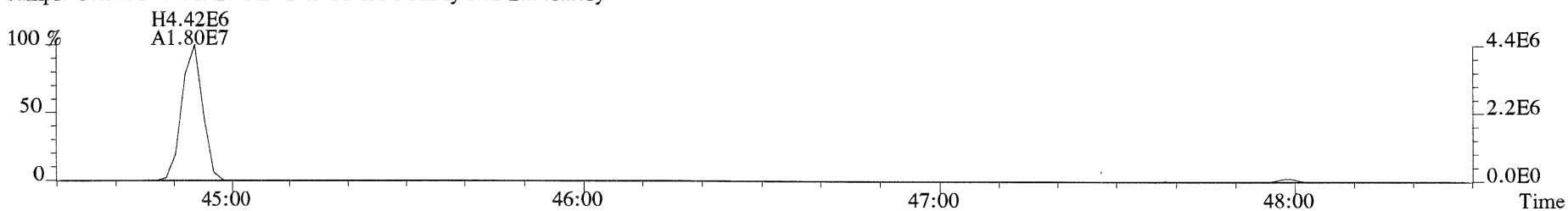
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



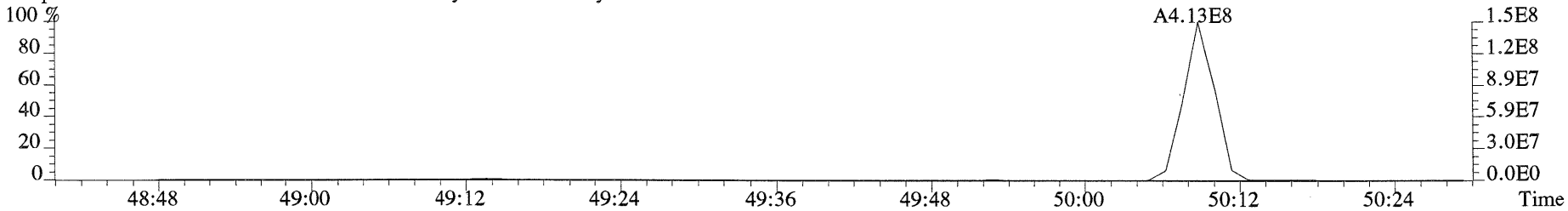
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



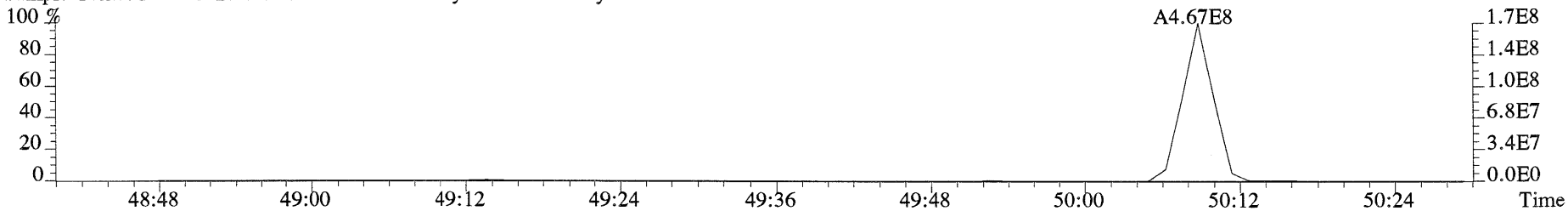
File:03APR19Z #1-405 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



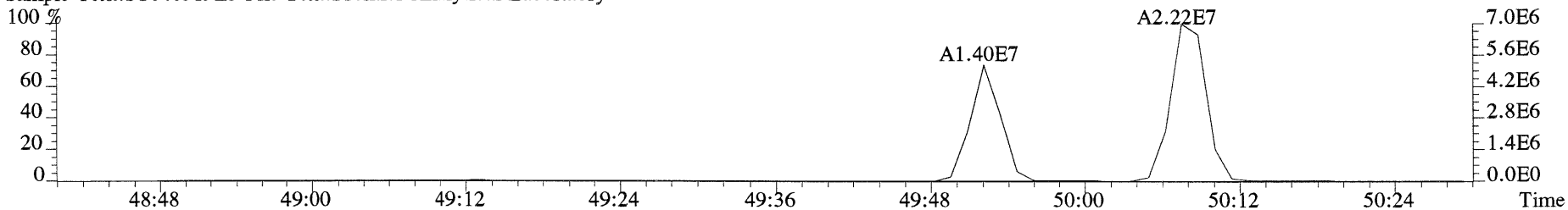
File:03APR19Z #1-272 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



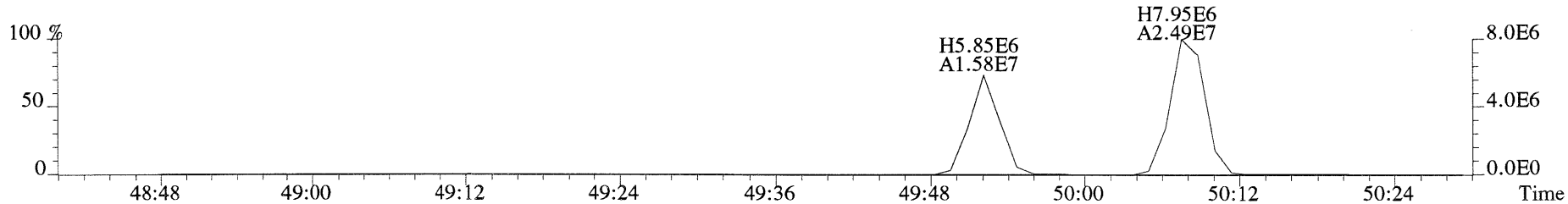
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



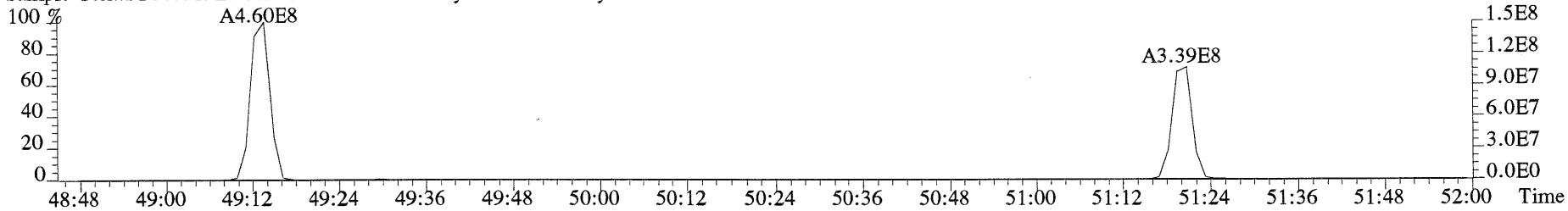
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



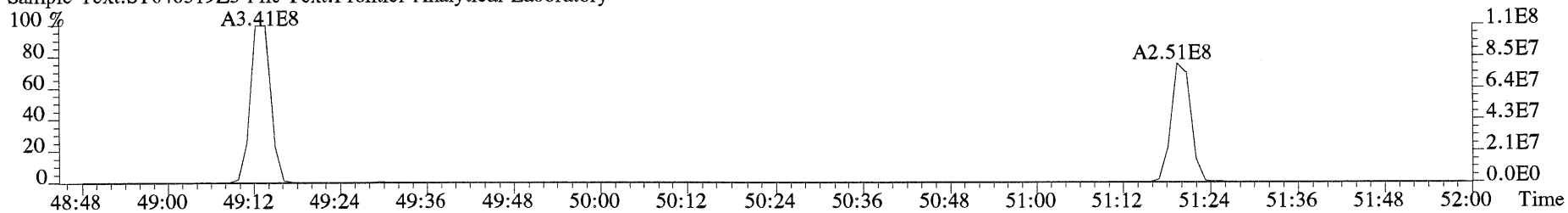
File:03APR19Z #1-273 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



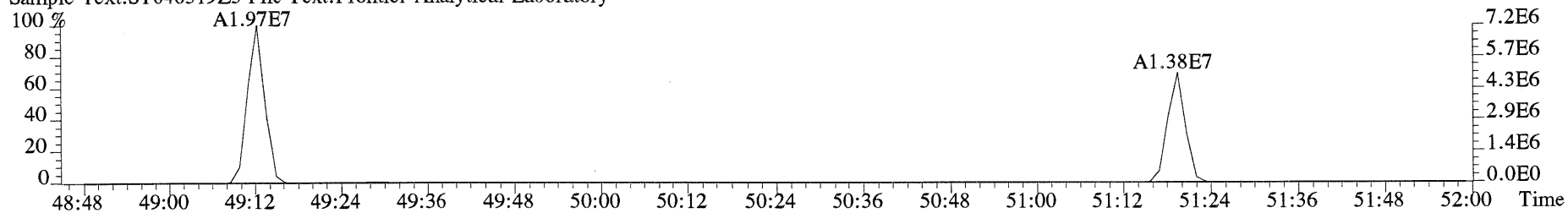
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



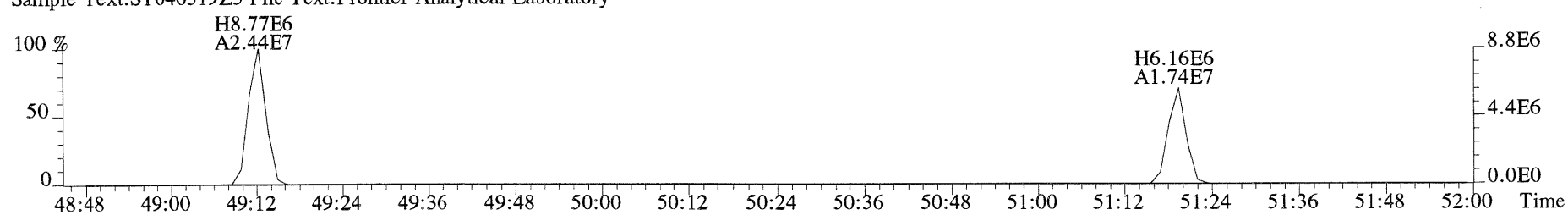
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



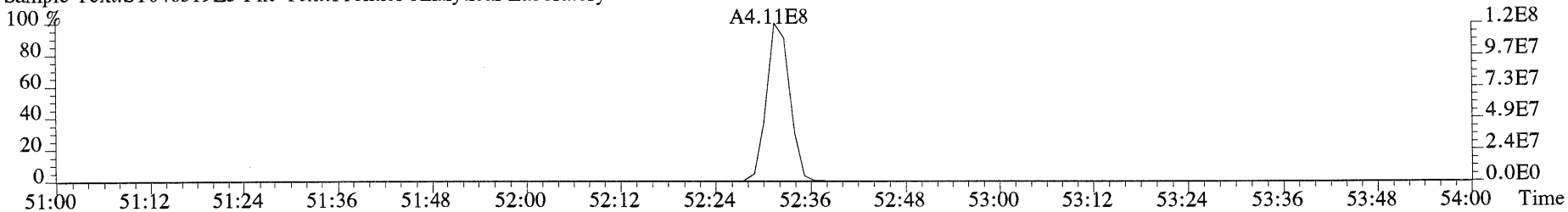
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



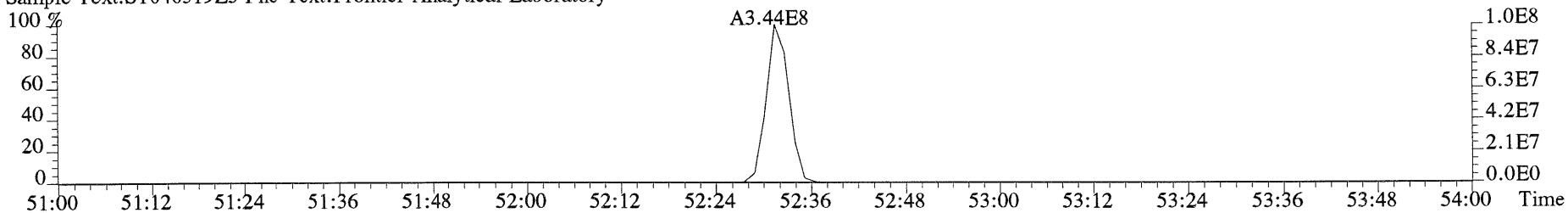
File:03APR19Z #1-274 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



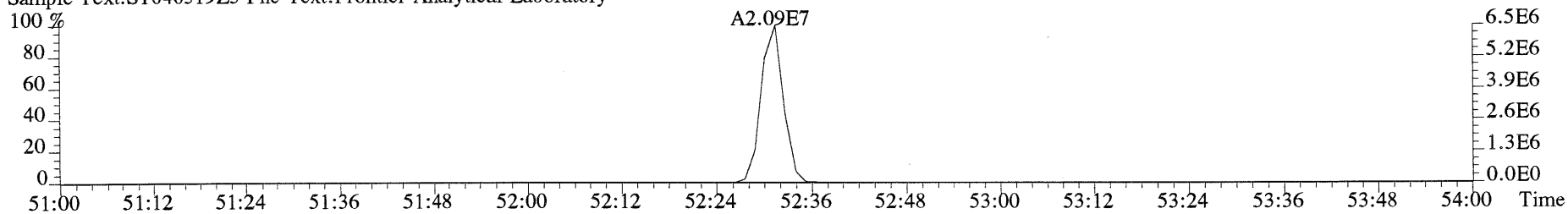
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



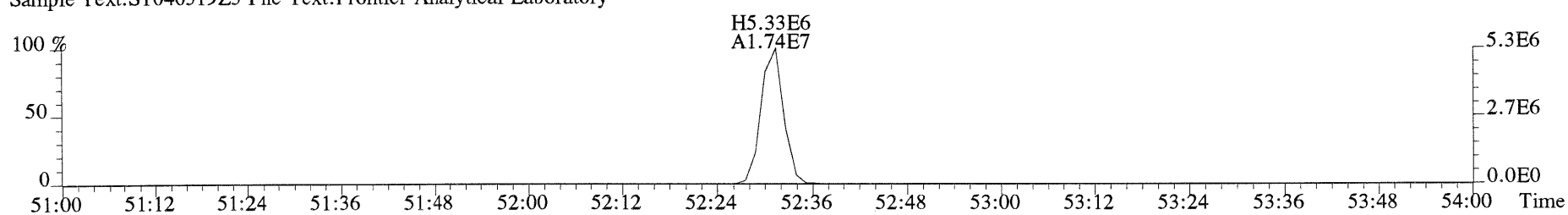
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory



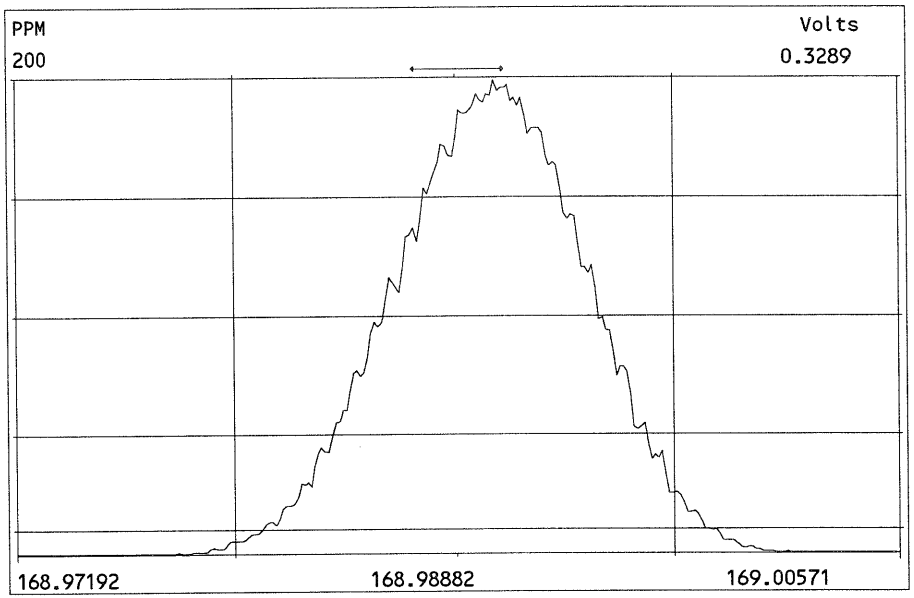
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory

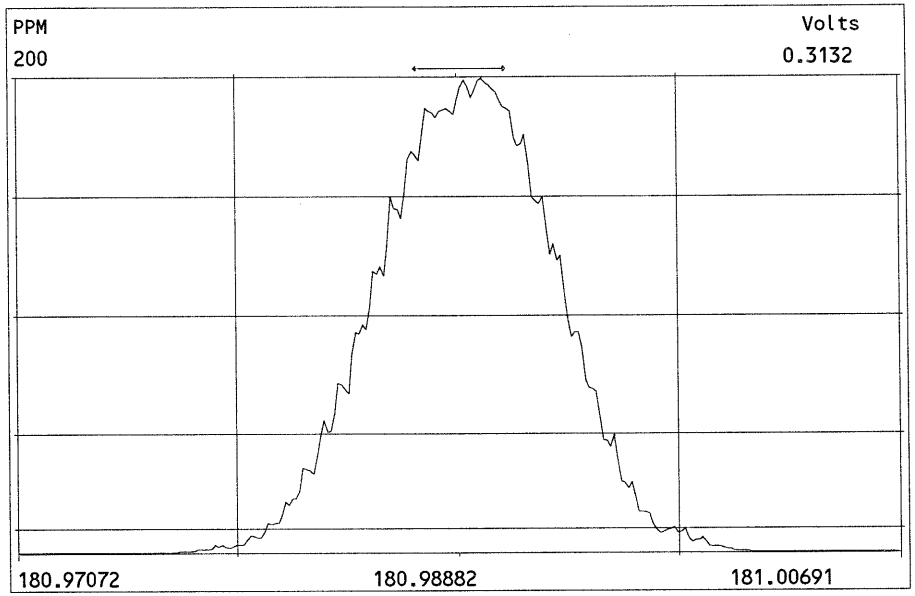


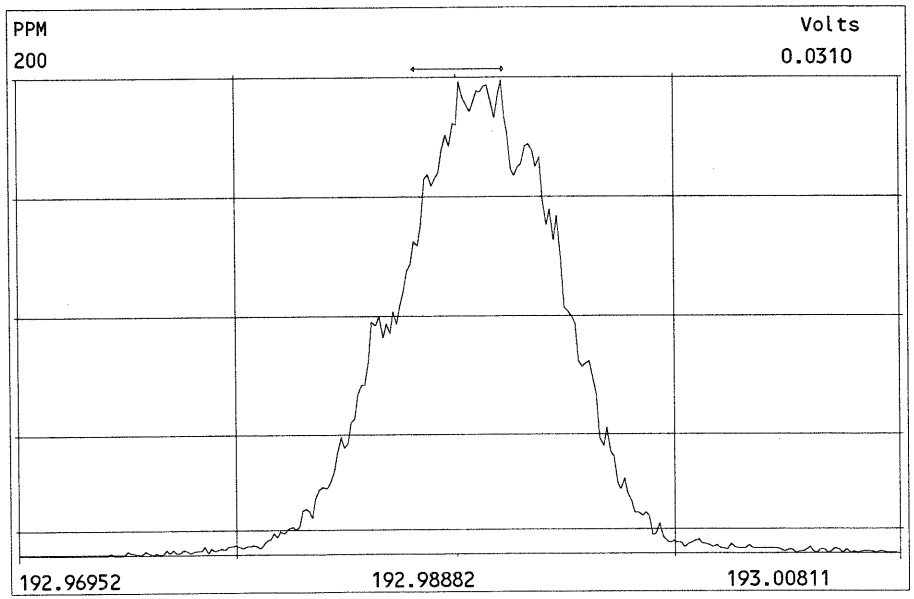
File:03APR19Z #1-275 Acq: 3-APR-2019 12:34:04 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST040319Z5 File Text:Frontier Analytical Laboratory

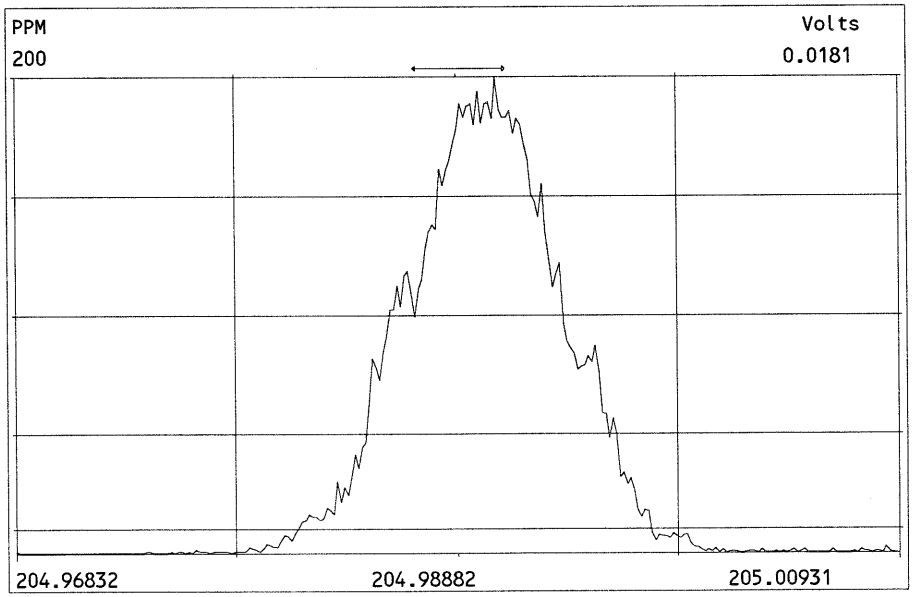


Peak Locate Examination: 3-APR-2019:21:48 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK 78

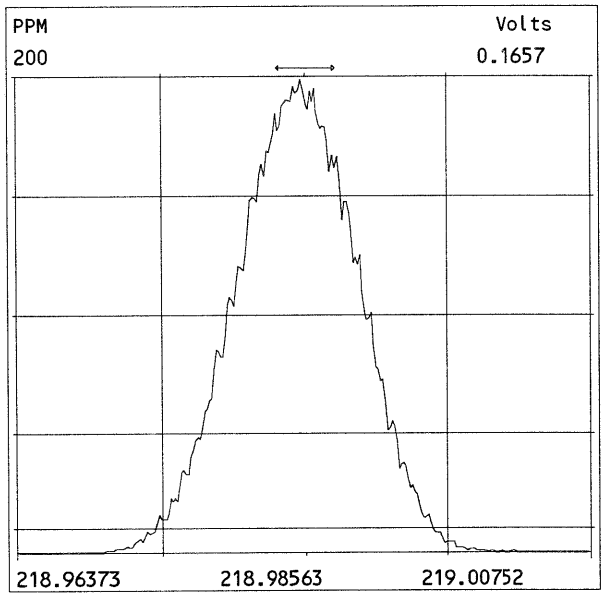


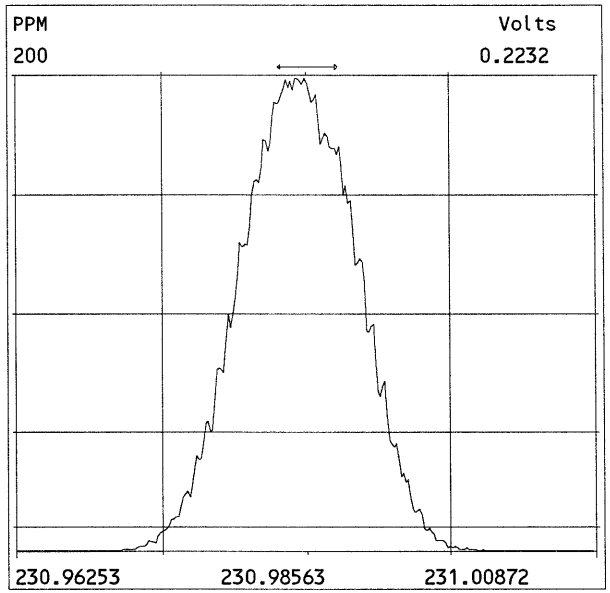


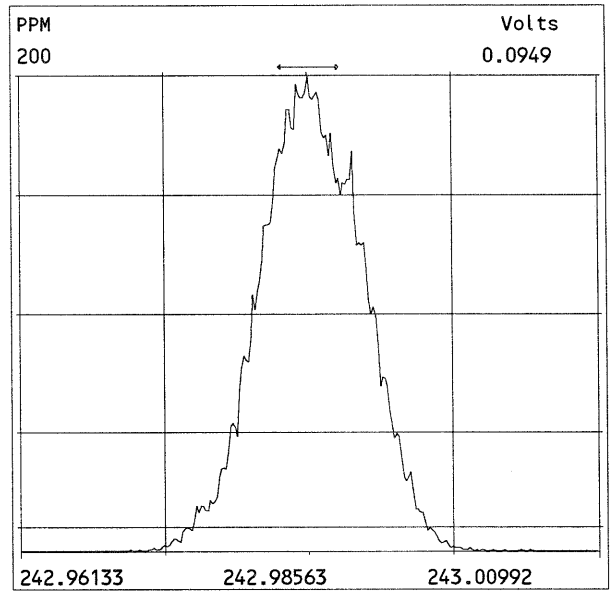


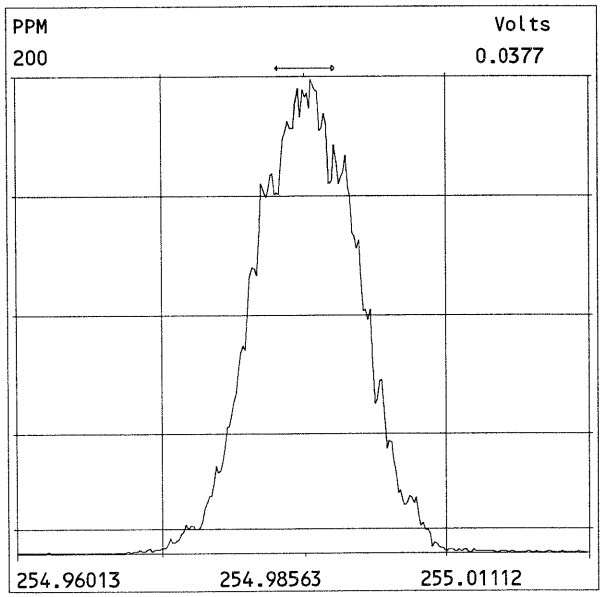


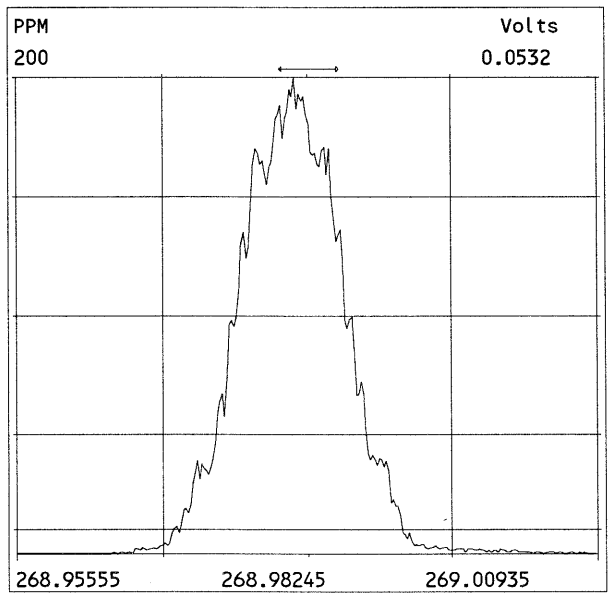
Peak Locate Examination: 3-APR-2019:21:50 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK 78

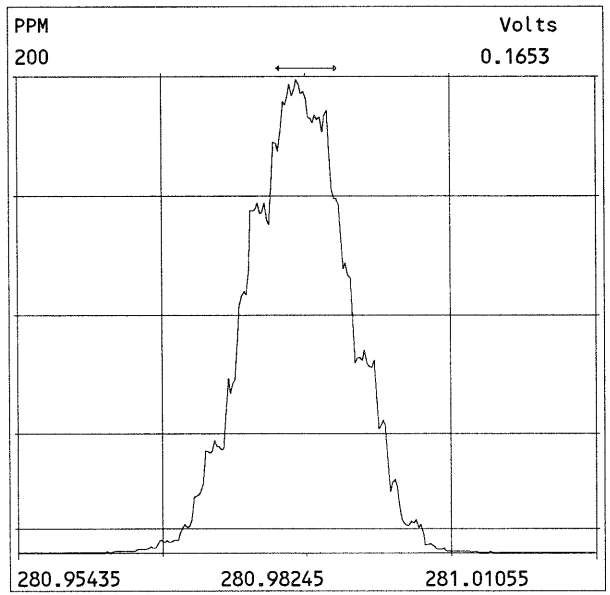




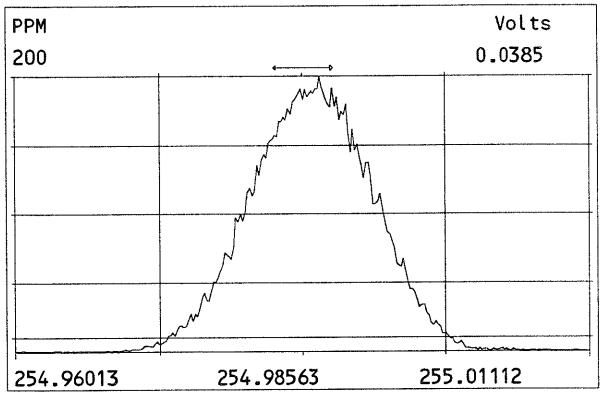


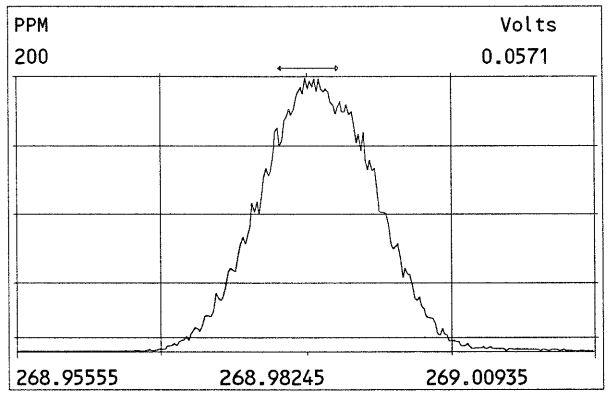


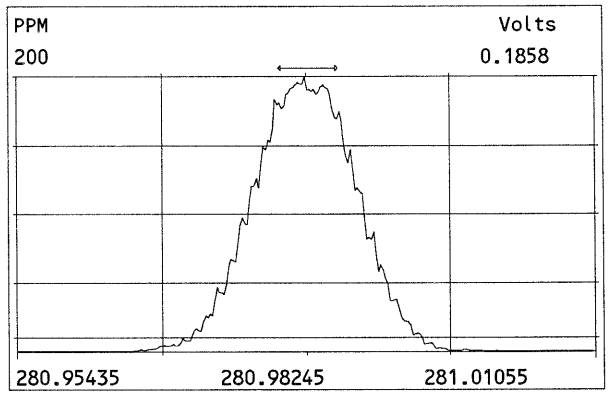


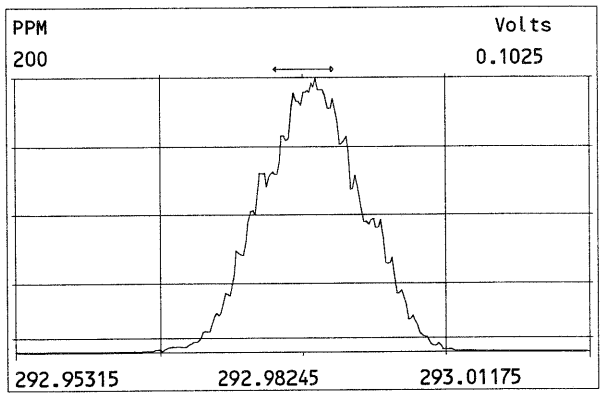


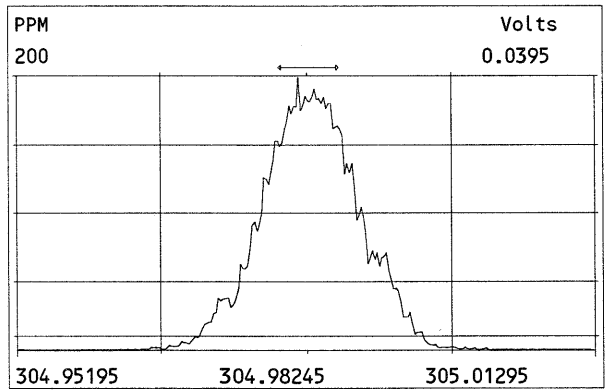
Peak Locate Examination: 3-APR-2019:21:53 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK78

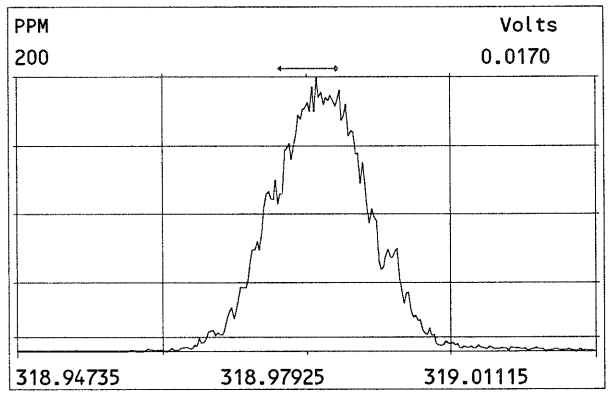


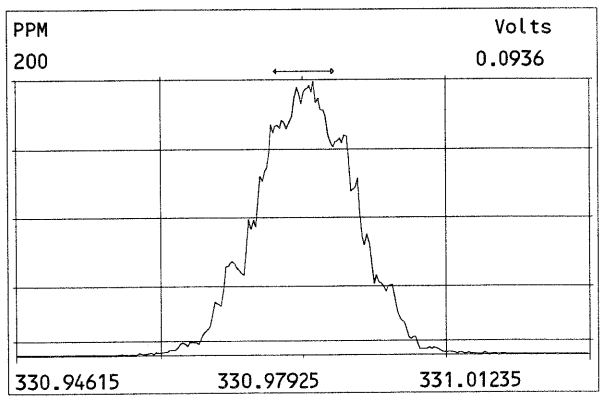


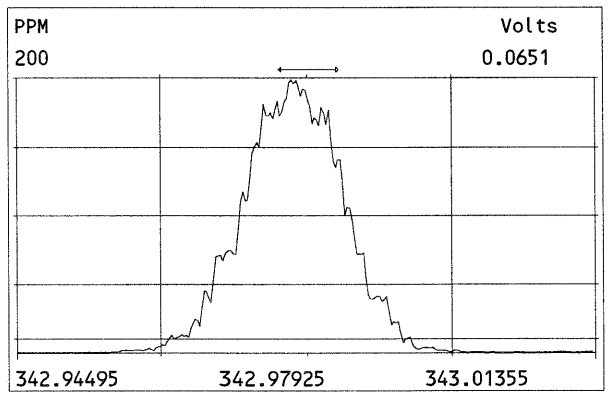




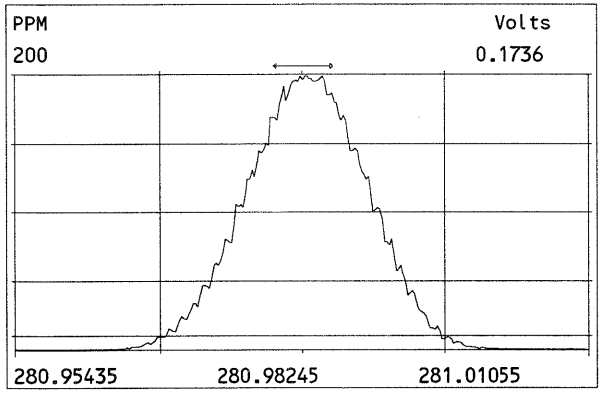


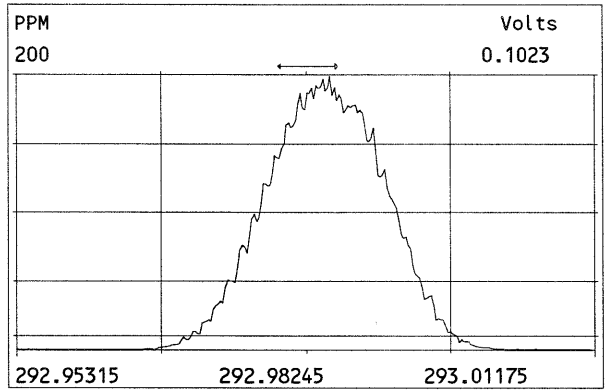


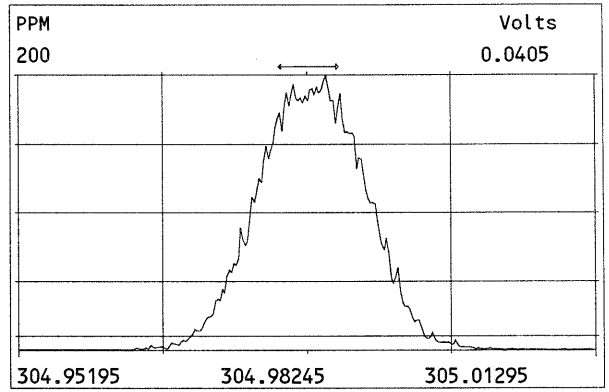


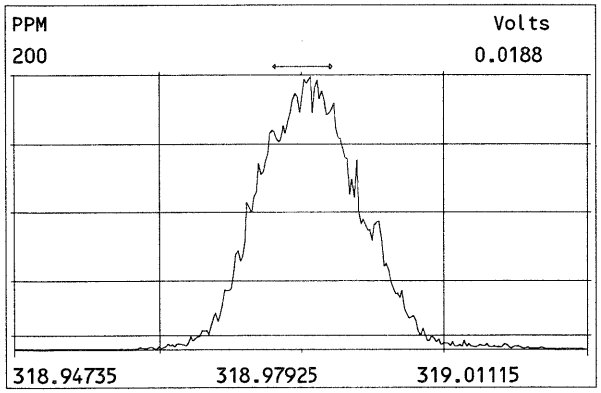


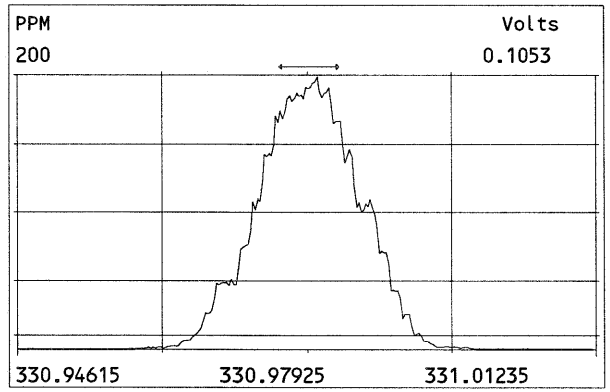
Peak Locate Examination: 3-APR-2019:21:55 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK 78

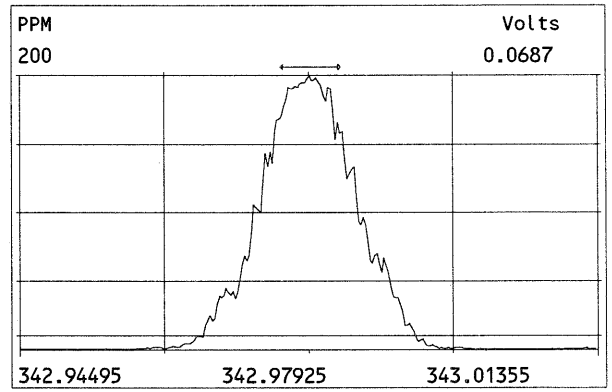


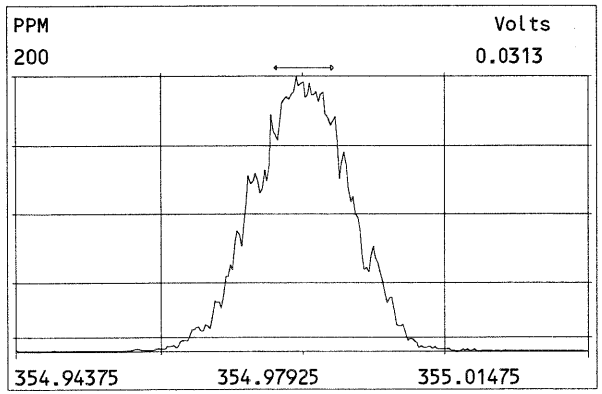


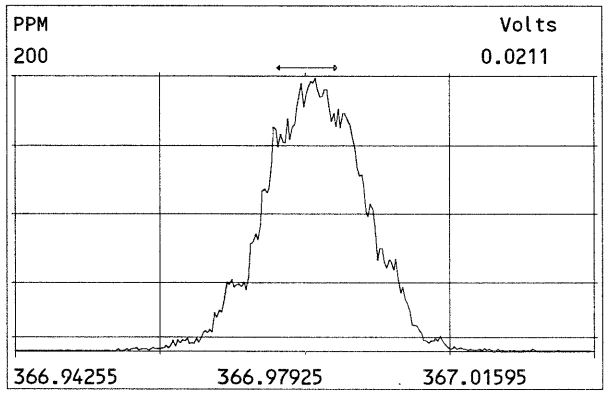


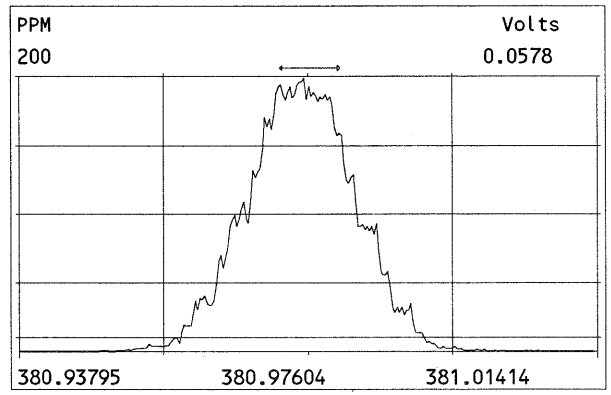




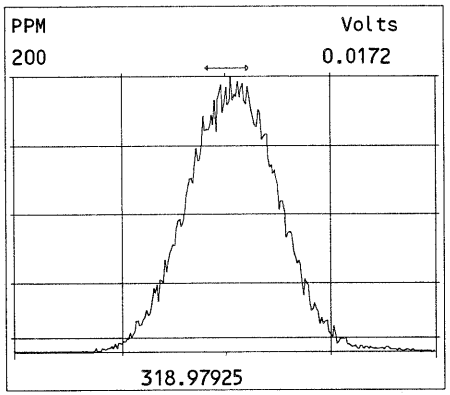


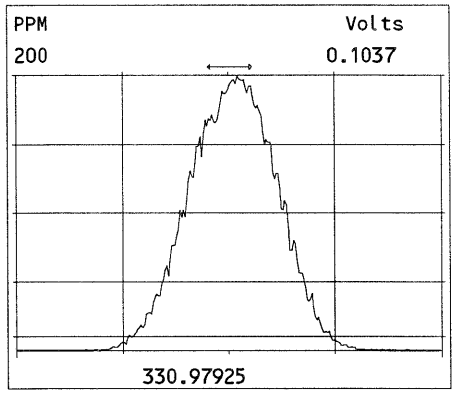


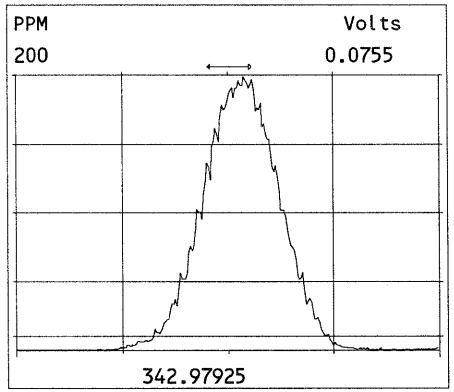


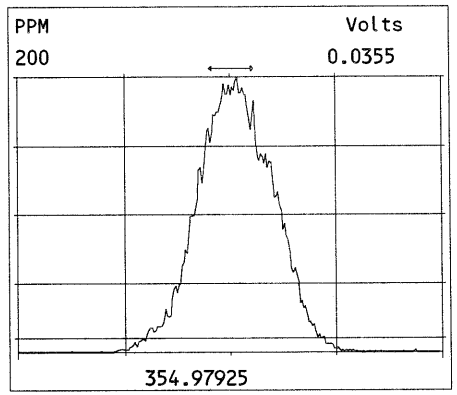


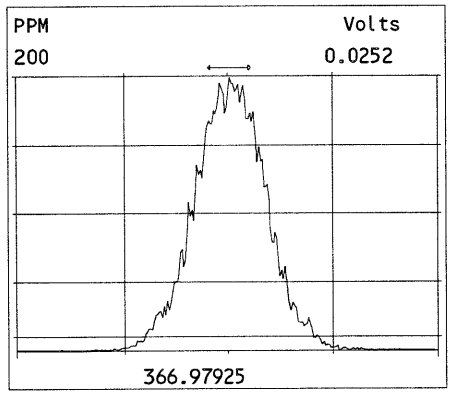
Peak Locate Examination: 3-APR-2019:21:57 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK 78

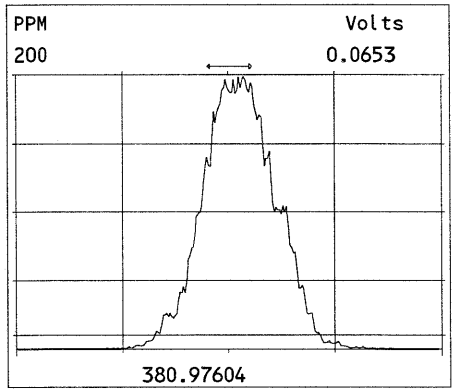


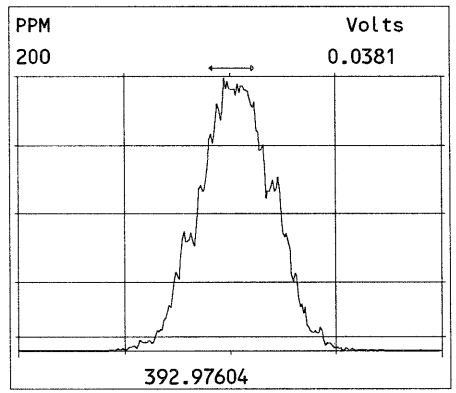


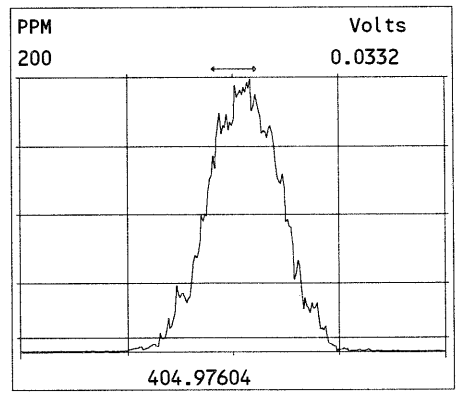


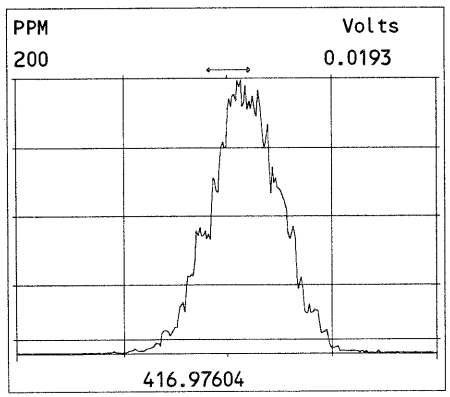


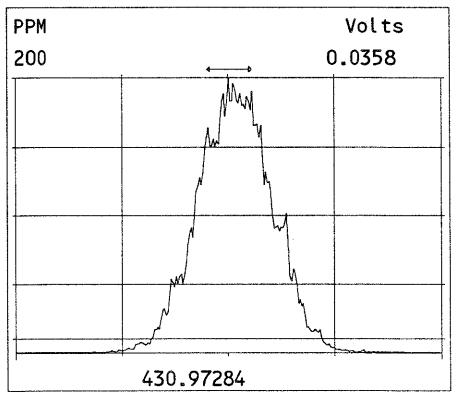


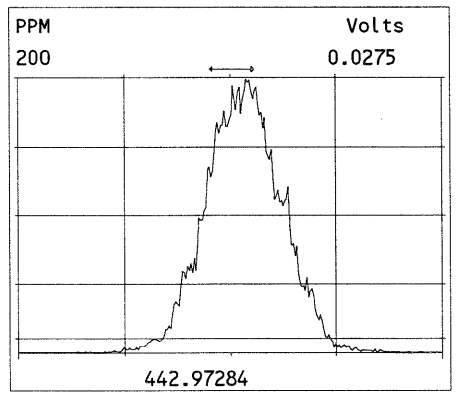




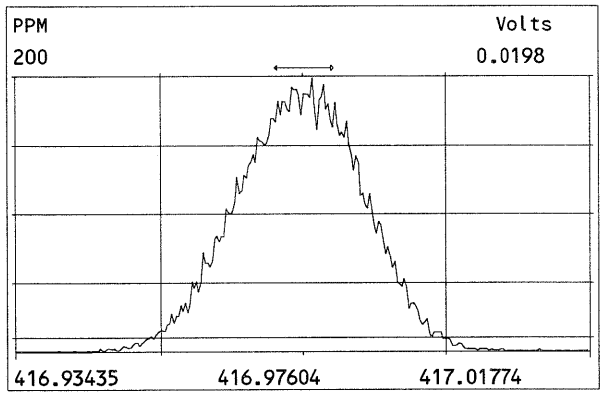


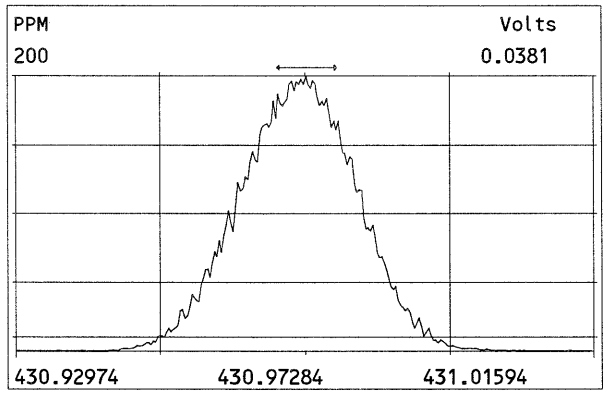


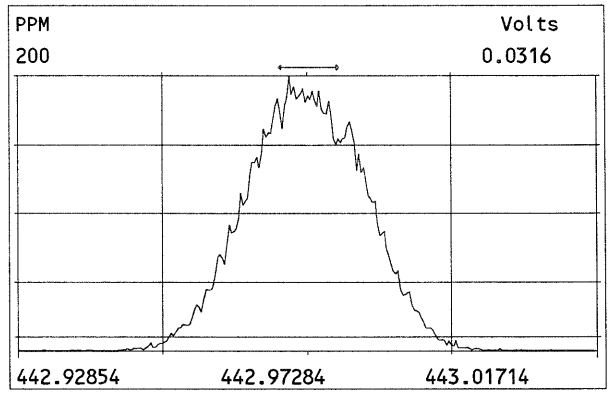


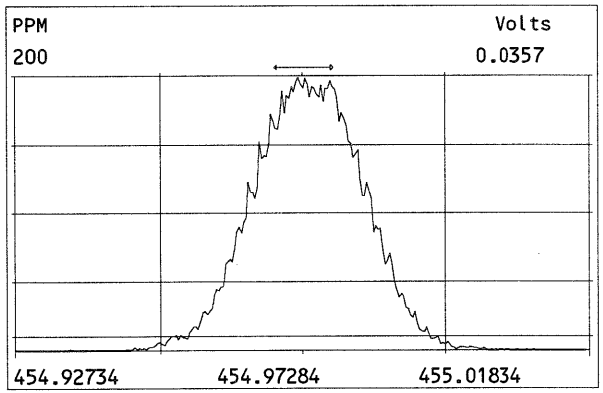


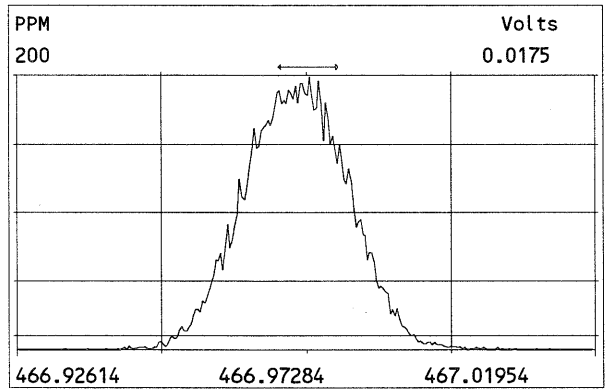
Peak Locate Examination: 3-APR-2019:22:00 File:03APR19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK 78

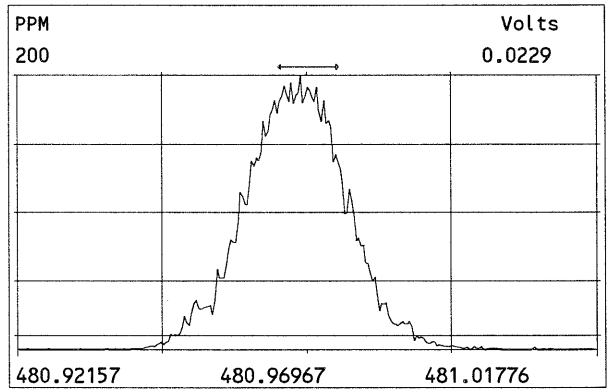


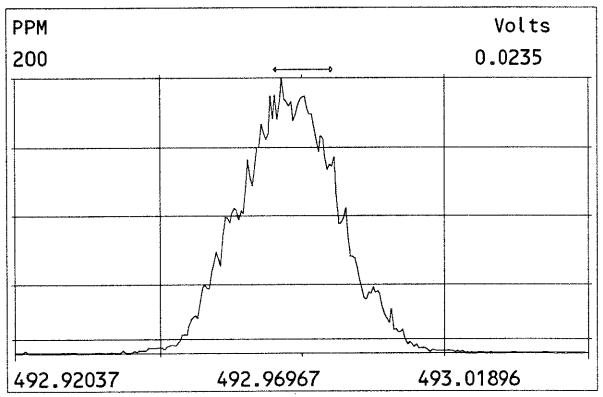


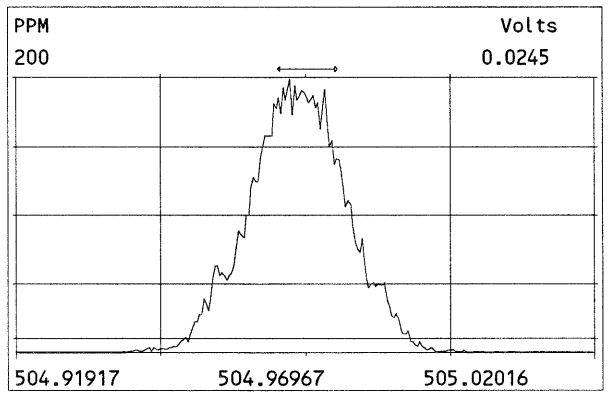


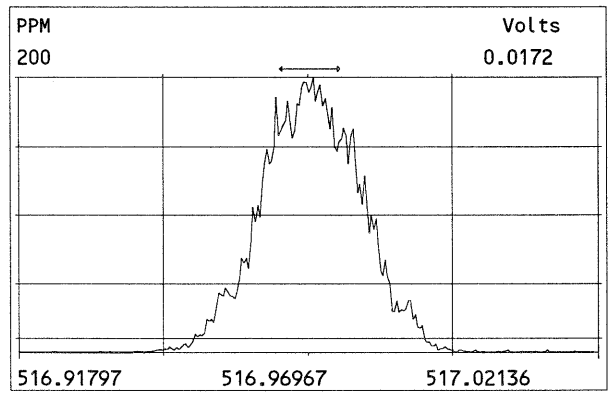












Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JUL19Z Sam:1 Analysis Date: 31-JUL-19 12:23:40

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.17	2.66-3.60	y	50.2	37.5 - 62.5
PCB-3	M/M+2	3.21	2.66-3.60	y	50.6	37.5 - 62.5
PCB-4	M/M+2	1.54	1.33-1.79	y	51.3	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	51.4	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	54.7	37.5 - 62.5
PCB-37	M/M+2	1.06	0.88-1.20	y	53.4	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	0.80	0.65-0.89	y	52.4	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	52.9	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	49.6	37.5 - 62.5
PCB-105	M+2/M+4	1.56	1.32-1.78	y	51.0	37.5 - 62.5
PCB-114	M+2/M+4	1.57	1.32-1.78	y	53.0	37.5 - 62.5
PCB-118	M+2/M+4	1.57	1.32-1.78	y	52.6	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	51.4	37.5 - 62.5
PCB-126	M+2/M+4	1.56	1.32-1.78	y	51.2	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	50.7	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	51.2	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	50.3	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	52.1	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	52.1	37.5 - 62.5
PCB-188	M+2/M+4	1.04	0.89-1.21	y	51.7	37.5 - 62.5
PCB-189	M+2/M+4	1.03	0.89-1.21	y	50.8	37.5 - 62.5
PCB-202	M+2/M+4	0.88	0.76-1.02	y	51.0	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	53.6	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	53.4	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	52.6	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	51.9	37.5 - 62.5

Analyst: _____ Date: 7/31/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JUL19Z Sam:1 Analysis Date: 31-JUL-19 12:23:40

	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	94.1	50.0 - 145
13C-PCB-3	M/M+2	3.26	2.66-3.60	y	95.1	50.0 - 145
13C-PCB-4	M/M+2	1.59	1.33-1.79	y	94.3	50.0 - 145
13C-PCB-15	M/M+2	1.63	1.33-1.79	y	96.3	50.0 - 145
13C-PCB-19	M/M+2	1.02	0.88-1.20	y	89.3	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	95.9	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	91.7	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	89.9	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	93.0	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	98.9	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	96.0	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	95.8	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	96.9	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	98.4	50.0 - 145
13C-PCB-126	M+2/M+4	1.61	1.32-1.78	y	91.8	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	96.5	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	94.4	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	90.7	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	94.5	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	85.7	50.0 - 145
13C-PCB-188	M+2/M+4	1.05	0.89-1.21	y	99.4	50.0 - 145
13C-PCB-189	M+2/M+4	1.04	0.89-1.21	y	98.4	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	106	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	96.3	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	92.8	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	94.7	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	97.5	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	97.5	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	106	75.0 - 125

Analyst: _____ Date: 7/31/19

FAL ID: ST073119Z1 Filename: 31JUL19Z Sam:1 Acquired: 31-JUL-19 12:23:40 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 31JUL19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	7.76e+07	3.17 y	14:34	1.19	50.2		2.50	-	-	*	-
13C-PCB-1	1.30e+08	3.17 y	14:33	1.02	94.1		2.50				94.1
PCB-3	7.42e+07	3.21 y	16:60	1.18	50.6		2.50	-	-	*	-
13C-PCB-3	1.24e+08	3.26 y	16:59	0.97	95.1		2.50				95.1
PCB-4	5.04e+07	1.54 y	18:15	1.04	51.3		2.50	-	-	*	-
13C-PCB-4	9.40e+07	1.59 y	18:13	0.74	94.3		2.50				94.3
PCB-15	6.65e+07	1.55 y	23:46	1.03	51.4		2.50	-	-	*	-
13C-PCB-15	1.25e+08	1.63 y	23:45	0.96	96.3		2.50				96.3
PCB-19	3.85e+07	1.07 y	22:08	1.11	54.7		2.50	-	-	*	-
13C-PCB-19	6.34e+07	1.02 y	22:07	0.53	89.3		2.50				89.3
13C-PCB-9	1.35e+08	1.60 y	19:53	-	174		2.50				
PCB-37	5.65e+07	1.06 y	30:25	1.04	53.4		2.50	-	-	*	-
13C-PCB-37	1.02e+08	1.07 y	30:24	1.57	95.9		2.50				95.9
PCB-54	5.34e+07	0.80 y	25:40	1.16	53.4		2.50	-	-	*	-
13C-PCB-54	8.60e+07	0.82 y	25:38	1.38	91.7		2.50				91.7
PCB-104	3.98e+07	1.57 y	30:06	1.08	49.6		2.50	-	-	*	-
13C-PCB-104	7.41e+07	1.60 y	30:04	1.11	98.9		2.50				98.9
13C-PCB-28	1.13e+08	1.04 y	26:43	1.71	97.5		2.50				97.5
13C-PCB-52	6.78e+07	0.81 y	28:58	-	178		2.50				
PCB-81	4.57e+07	0.78 y	36:10	1.06	52.9		2.50	-	-	*	-
13C-PCB-81	8.11e+07	0.80 y	36:10	1.50	93.0		2.50				93.0
PCB-77	4.39e+07	0.80 y	36:44	1.02	52.4		2.50	-	-	*	-
13C-PCB-77	8.19e+07	0.81 y	36:43	1.57	89.9		2.50				89.9
PCB-155	4.14e+07	1.26 y	34:15	1.02	50.7		2.50	-	-	*	-
13C-PCB-155	7.96e+07	1.27 y	34:14	1.42	96.5		2.50				96.5
13C-PCB-111	7.31e+07	1.60 y	36:18	1.29	97.5		2.50				97.5
13C-PCB-101	5.82e+07	1.59 y	34:40	-	177		2.50				
PCB-123	4.04e+07	1.57 y	38:23	1.03	51.4		2.50	-	-	*	-
13C-PCB-123	7.61e+07	1.60 y	38:21	1.40	98.4		2.50				98.4
PCB-118	4.41e+07	1.57 y	38:33	1.02	52.6		2.50	-	-	*	-
13C-PCB-118	8.24e+07	1.61 y	38:31	1.53	96.9		2.50				96.9
PCB-114	4.13e+07	1.57 y	39:09	1.01	53.0		2.50	-	-	*	-
13C-PCB-114	7.68e+07	1.60 y	39:09	1.45	95.8		2.50				95.8
PCB-105	3.97e+07	1.56 y	39:58	1.02	51.0		2.50	-	-	*	-
13C-PCB-105	7.66e+07	1.61 y	39:57	1.44	96.0		2.50				96.0
PCB-126	3.63e+07	1.56 y	42:07	1.02	51.2		2.50	-	-	*	-
13C-PCB-126	6.97e+07	1.61 y	42:05	1.37	91.8		2.50				91.8
PCB-167	3.74e+07	1.25 y	43:27	1.07	52.1		2.50	-	-	*	-
13C-PCB-167	6.72e+07	1.29 y	43:26	1.28	94.5		2.50				94.5
PCB-156	3.63e+07	1.26 y	44:41	1.10	51.2		2.50	-	-	*	-
13C-PCB-156	6.47e+07	1.29 y	44:40	1.24	94.4		2.50				94.4
PCB-157	3.59e+07	1.26 y	44:56	1.06	50.3		2.50	-	-	*	-
13C-PCB-157	6.72e+07	1.29 y	44:55	1.34	90.7		2.50				90.7
PCB-169	3.26e+07	1.27 y	46:48	1.06	52.1		2.50	-	-	*	-
13C-PCB-169	5.90e+07	1.30 y	46:46	1.24	85.7		2.50				85.7
PCB-188	3.72e+07	1.04 y	39:45	1.02	51.7		2.50	-	-	*	-
13C-PCB-188	7.09e+07	1.05 y	39:43	1.29	99.4		2.50				99.4
PCB-189	2.93e+07	1.03 y	48:27	0.99	50.8		2.50	-	-	*	-
13C-PCB-189	5.83e+07	1.04 y	48:27	1.07	98.4		2.50				98.4
PCB-202	3.23e+07	0.88 y	44:51	0.99	51.0		2.50	-	-	*	-
13C-PCB-202	6.40e+07	0.91 y	44:50	1.09	106		2.50				106
13C-PCB-178	4.74e+07	1.05 y	42:21	0.81	106		2.50				106
13C-PCB-138	5.54e+07	1.30 y	41:35	-	172		2.50				

FAL ID: ST073119Z1 Filename: 31JUL19Z Sam:1 Acquired: 31-JUL-19 12:23:40 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 31JUL19Z GC Column: DB1MS Amount: 1.000

PCB-205	3.82e+07	0.90	y	50:07	1.02	53.6	2.50	-	-	*	-
13C-PCB-205	6.96e+07	0.91	y	50:06	1.40	96.3	2.50				96.3
PCB-208	3.64e+07	1.35	y	49:10	0.98	52.6	2.50	-	-	*	-
13C-PCB-208	7.09e+07	0.80	y	49:10	1.36	101	2.50				101
PCB-206	2.56e+07	1.37	y	51:19	0.99	53.4	2.50	-	-	*	-
13C-PCB-206	4.82e+07	0.81	y	51:18	1.01	92.8	2.50				92.8
PCB-209	3.35e+07	1.20	y	52:31	1.09	51.9	2.50	-	-	*	-
13C-PCB-209	5.92e+07	1.20	y	52:29	1.21	94.7	2.50				94.7
13C-PCB-194	5.16e+07	0.91	y	49:50	-	168	2.50				

Analyst: [signature] Date: 7/31/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:31JUL19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

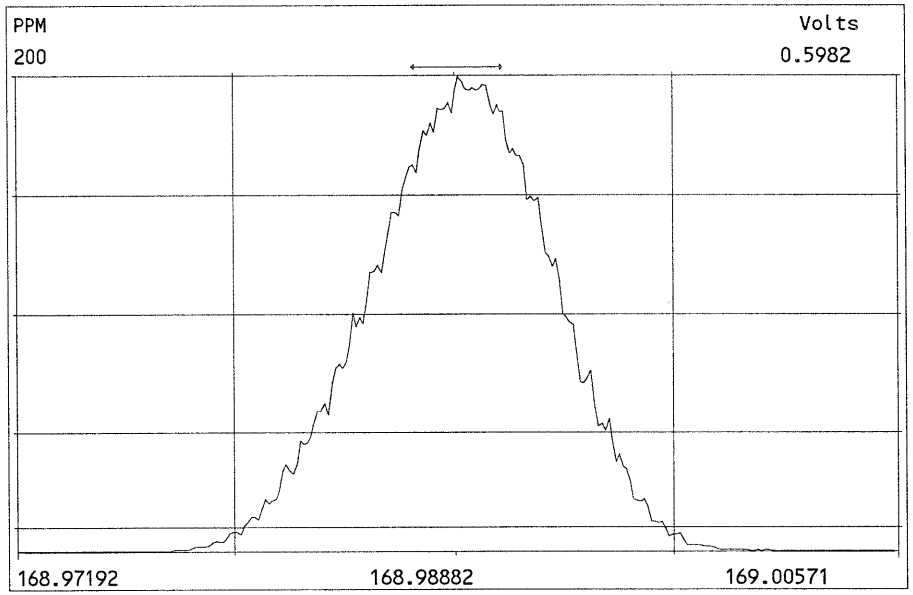
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
31JUL19Z	1	ST073119Z1	1668 CS3 R181204D	31-JUL-19 12:23:40	ST073119Z1	ST073119Z2	BS
31JUL19Z	2	SS073119Z1	Daily 209 190408A	31-JUL-19 13:22:00	ST073119Z1	ST073119Z2	BS
31JUL19Z	3	04989-001-0001-OPR	OPR	31-JUL-19 14:21:47	ST073119Z1	ST073119Z2	BS
31JUL19Z	4	04989-001-0001-MB	Method Blank	31-JUL-19 15:20:08	ST073119Z1	ST073119Z2	BS
31JUL19Z	5	12510-001-0001-SA	LDW-Y2-SC-S010-TB	31-JUL-19 16:18:55	ST073119Z1	ST073119Z2	BS
31JUL19Z	6	12510-002-0001-SA	LDW-Y2-SU-S010-TB	31-JUL-19 17:17:16	ST073119Z1	ST073119Z2	BS
31JUL19Z	7	12510-003-0001-SA	LDW-Y2-IN-S010-TB	31-JUL-19 18:15:38	ST073119Z1	ST073119Z2	BS
31JUL19Z	8	12510-004-0001-SA	LDW-Y2-SU-ENR+AC-CA-S010	31-JUL-19 19:13:59	ST073119Z1	ST073119Z2	BS
31JUL19Z	9	12510-005-0001-SA	LDW-Y2-SU-ENR+AC-CB-S010	31-JUL-19 20:12:46	ST073119Z1	ST073119Z2	BS
31JUL19Z	10	12510-006-0001-SA	LDW-Y2-SU-ENR+AC-CC-S010	31-JUL-19 21:11:07	ST073119Z1	ST073119Z2	BS
31JUL19Z	11	12510-007-0001-SA	LDW-Y2-SU-ENR+AC-CD-S010	31-JUL-19 22:09:29	ST073119Z1	ST073119Z2	BS
31JUL19Z	12	12510-008-0001-SA	LDW-Y2-SU-ENR+AC-CE-S010	31-JUL-19 23:07:50	ST073119Z1	ST073119Z2	BS
31JUL19Z	13	12510-009-0001-SA	LDW-Y2-SU-ENR-CA-S010	1-AUG-19 00:06:11	ST073119Z1	ST073119Z2	BS
31JUL19Z	14	12510-010-0001-SA	LDW-Y2-SU-ENR-CB-S010	1-AUG-19 01:04:32	ST073119Z1	ST073119Z2	BS
31JUL19Z	15	SB073119Z1	Solvent Blank	1-AUG-19 02:02:53	ST073119Z1	ST073119Z2	BS
31JUL19Z	16	ST073119Z2	1668 CS3 R181204D	1-AUG-19 03:01:17	ST073119Z1	ST073119Z2	BS

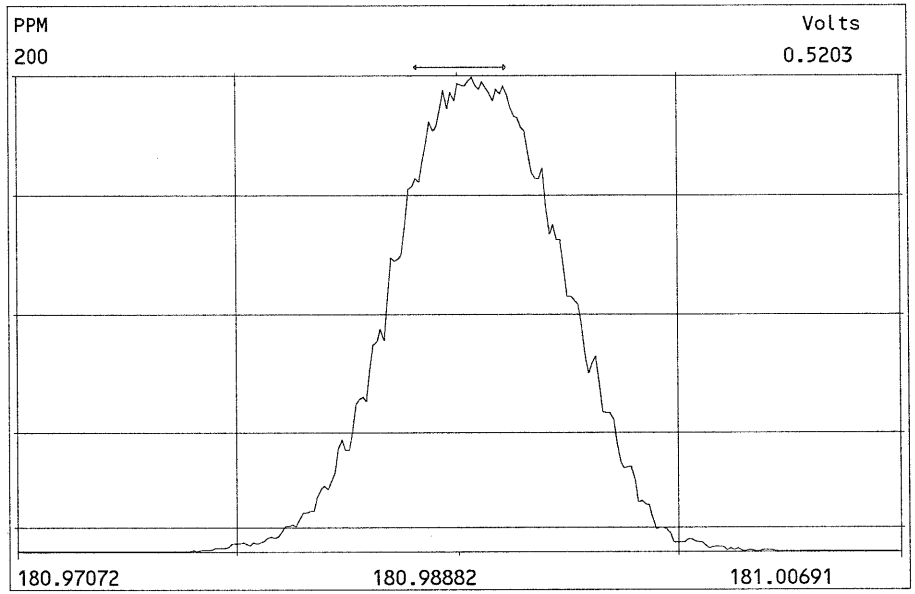
8/1/19

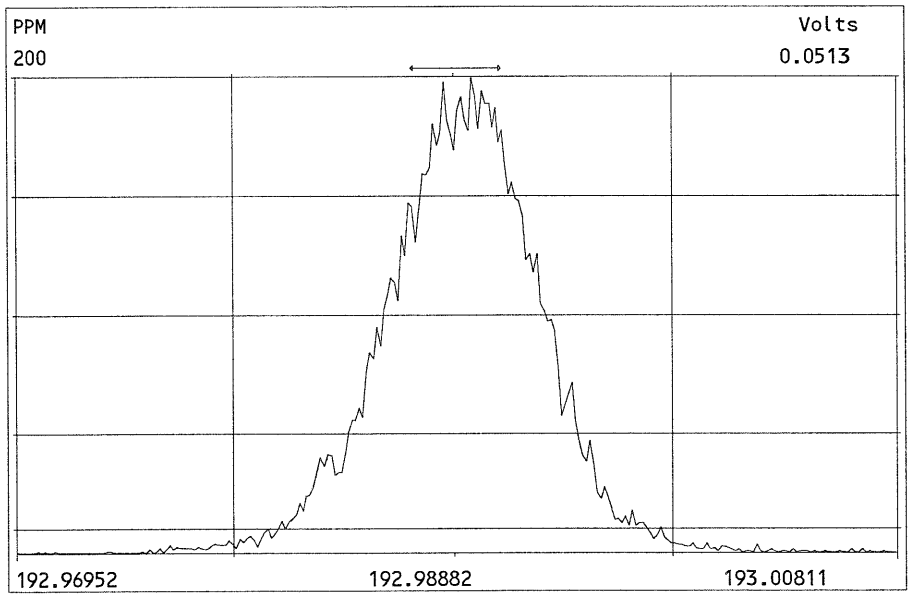
Data Backed Up:_____

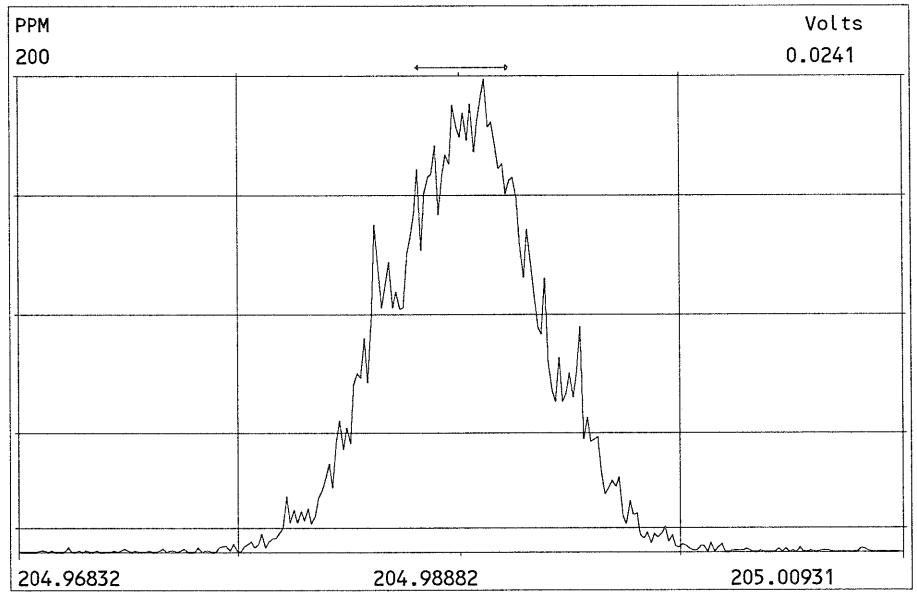
Date:_____

Peak Locate Examination:31-JUL-2019:12:21 File:31JUL19Z
Experiment:1668PCB Function:1 Reference:PFK

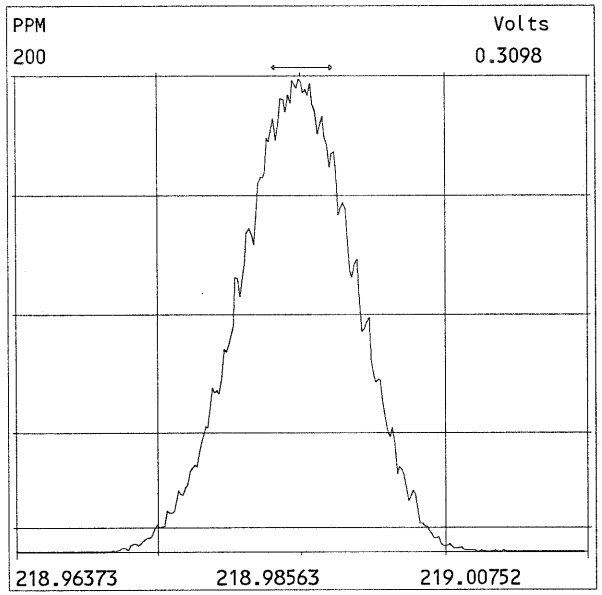


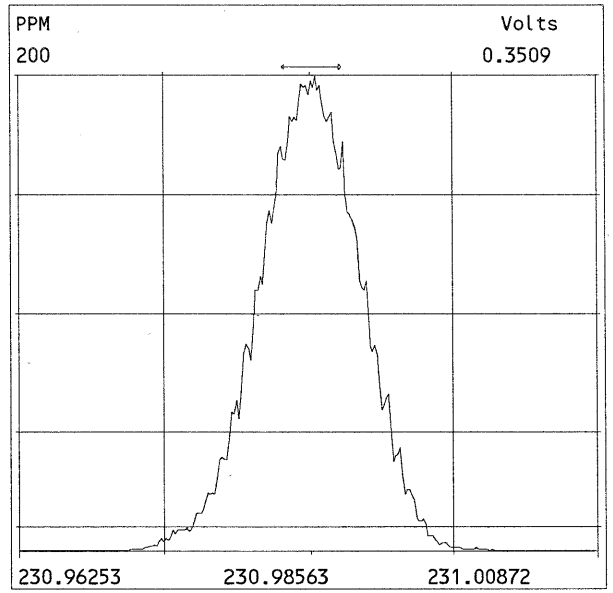


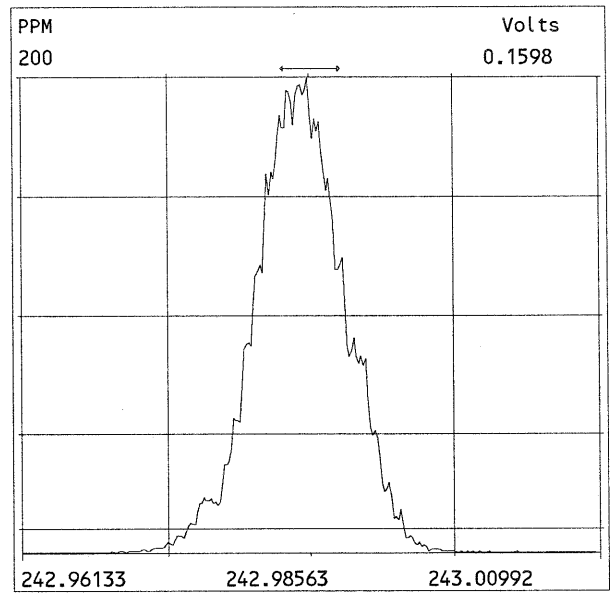


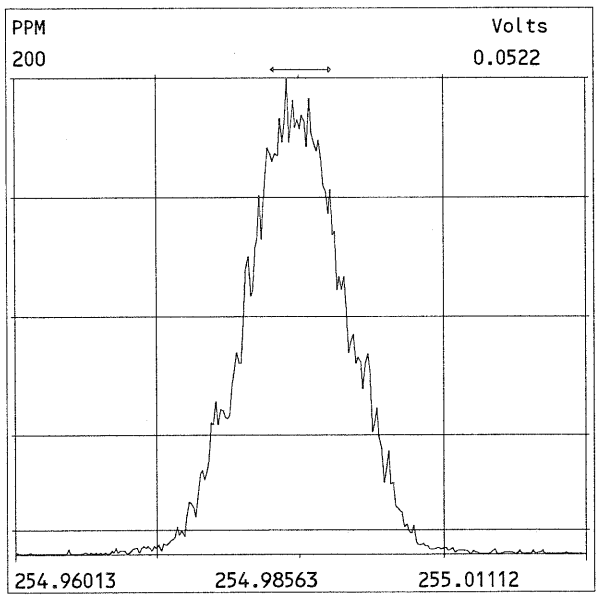


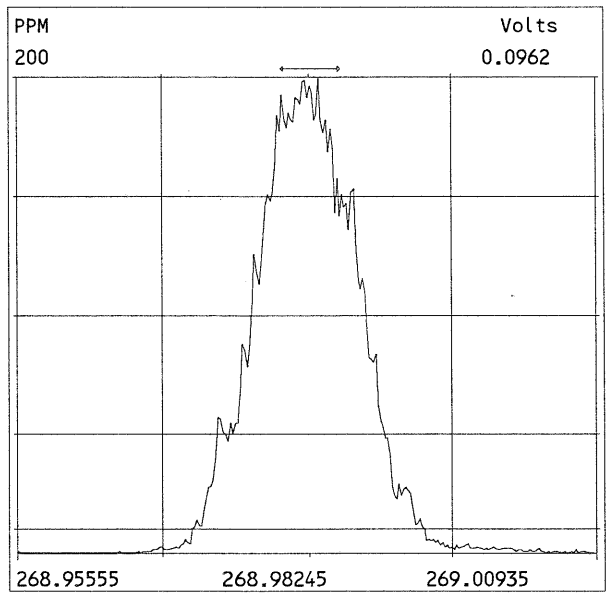
Peak Locate Examination:31-JUL-2019:12:21 File:31JUL19Z
Experiment:1668PCB Function:2 Reference:PFK

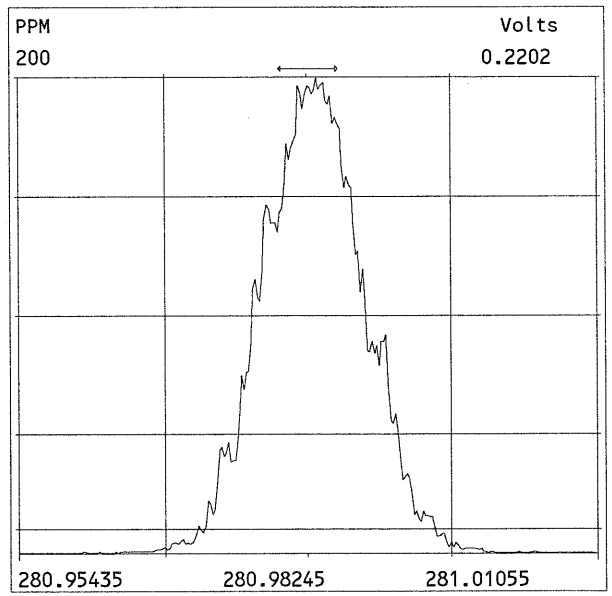




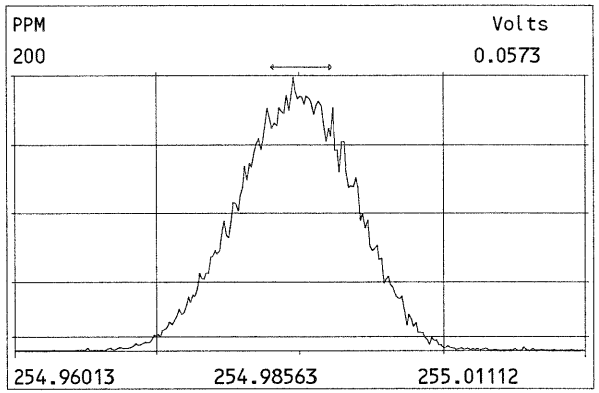


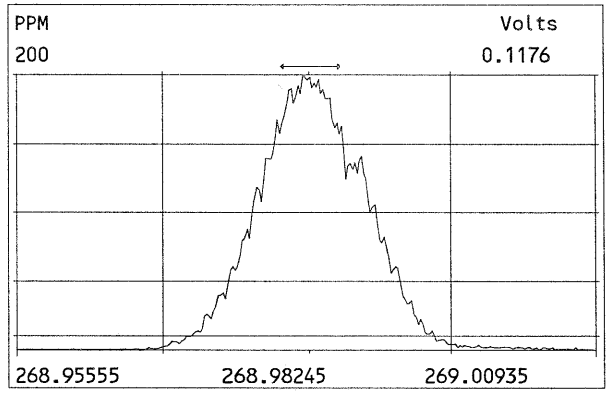


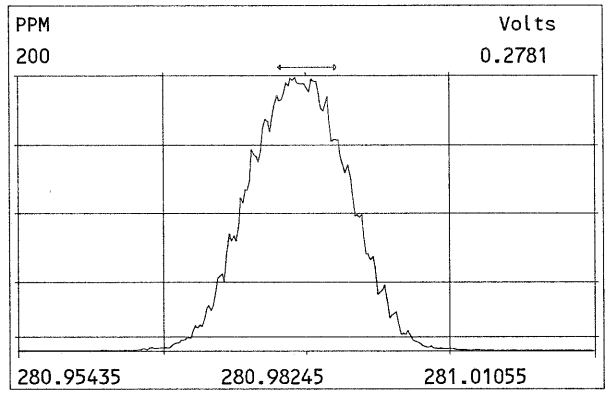


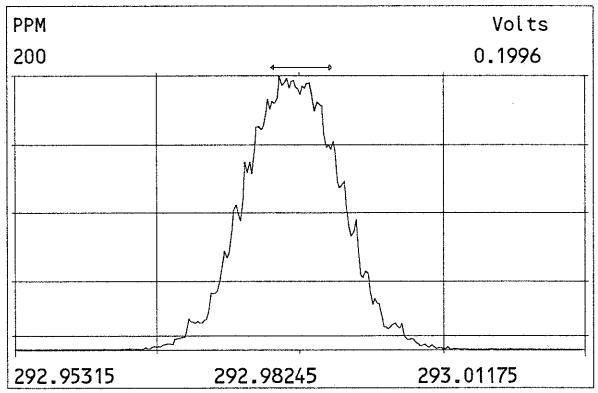


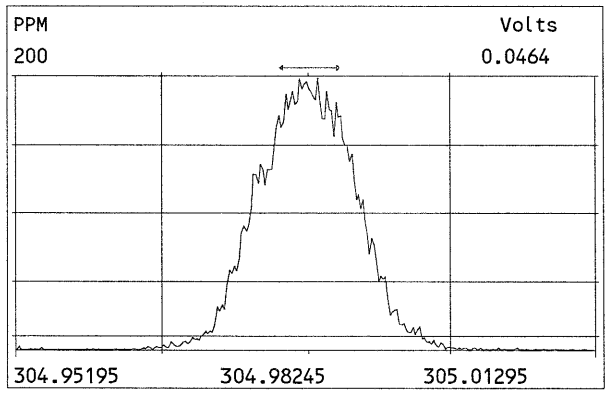
Peak Locate Examination:31-JUL-2019:12:21 File:31JUL19Z
Experiment:1668PCB Function:3 Reference:PFK

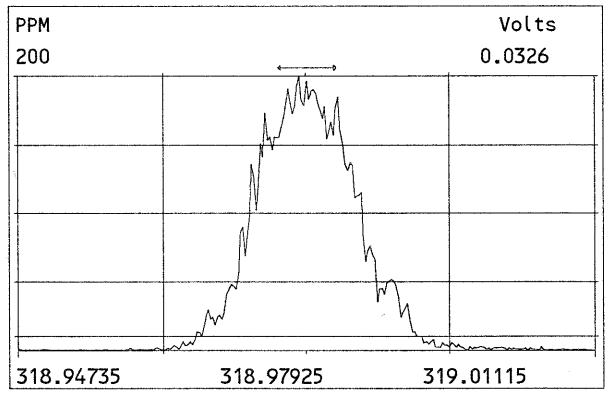


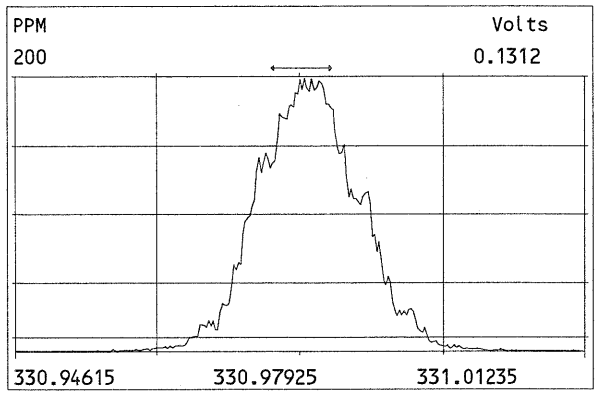


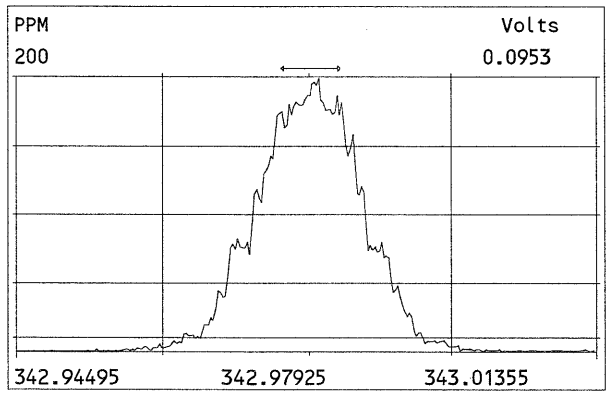




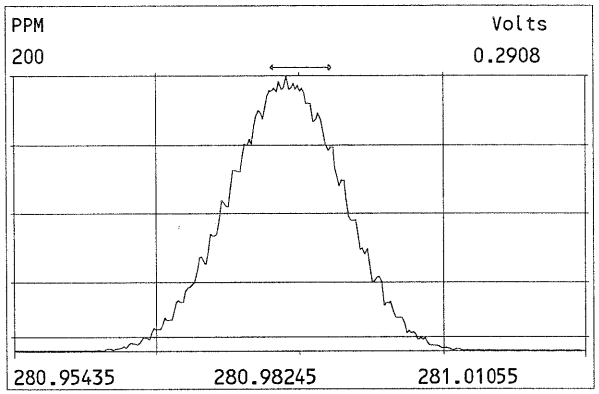


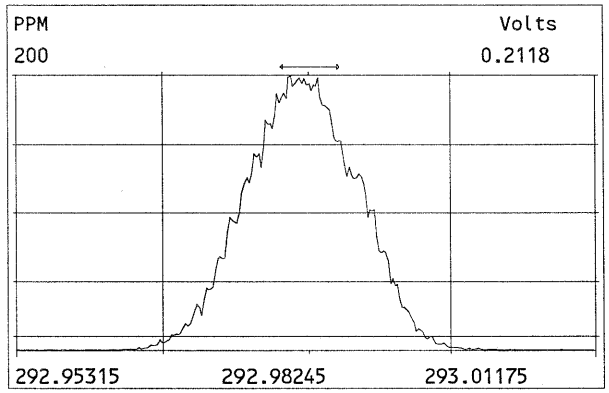


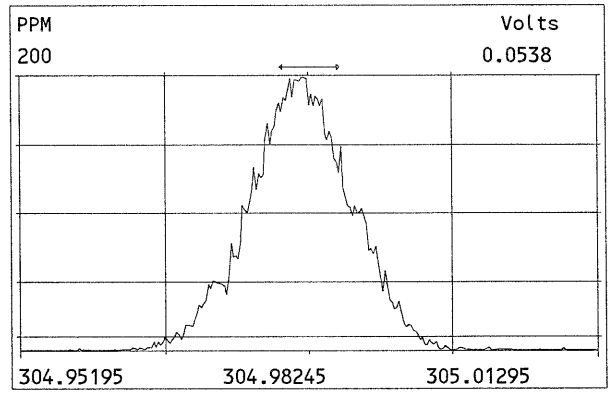


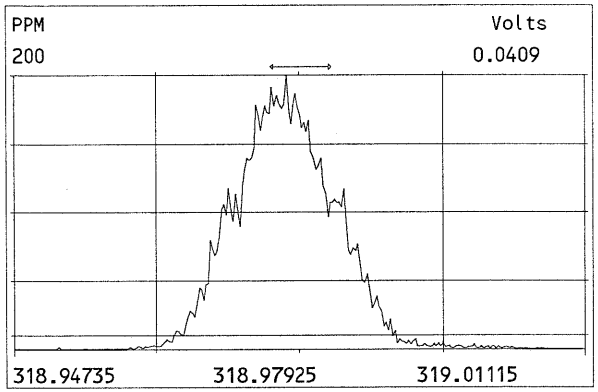


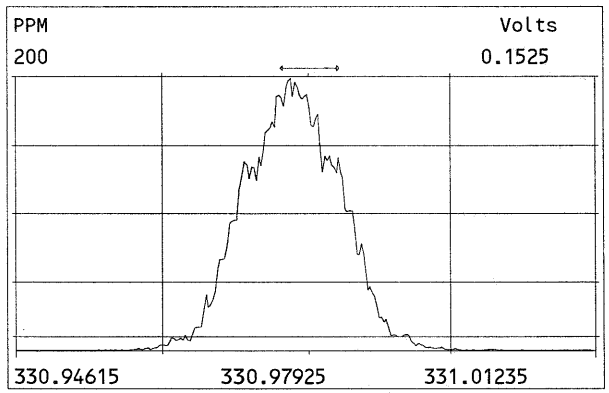
Peak Locate Examination:31-JUL-2019:12:22 File:31JUL19Z
Experiment:1668PCB Function:4 Reference:PFK

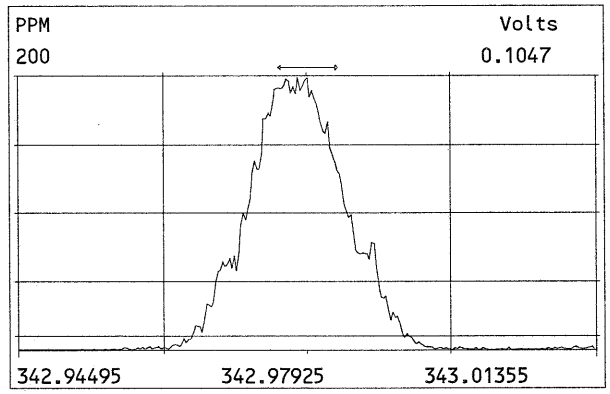


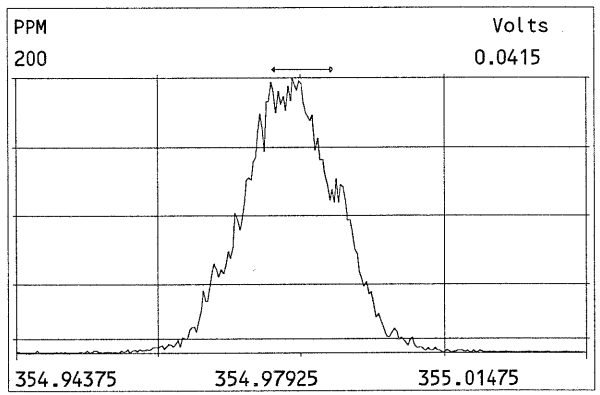


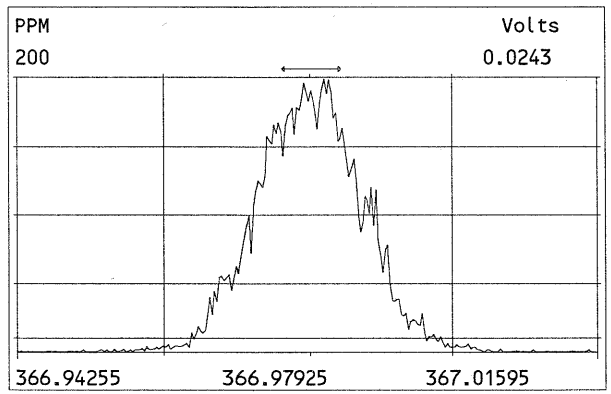


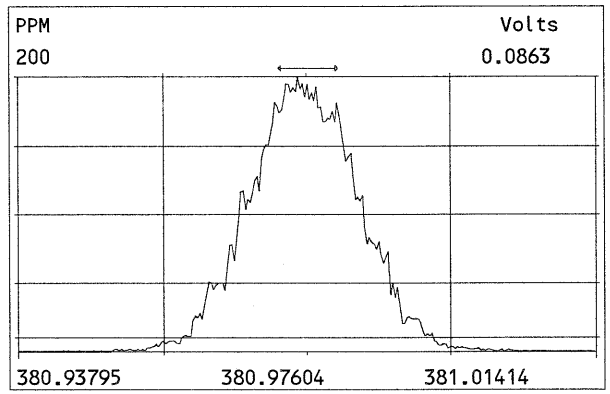




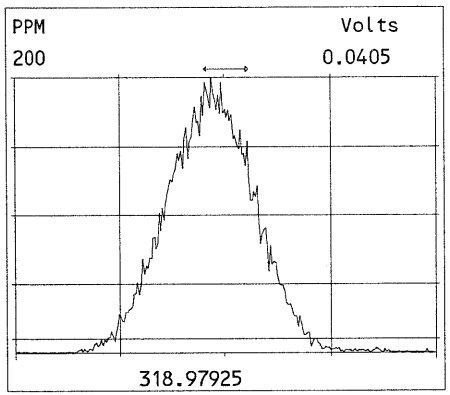


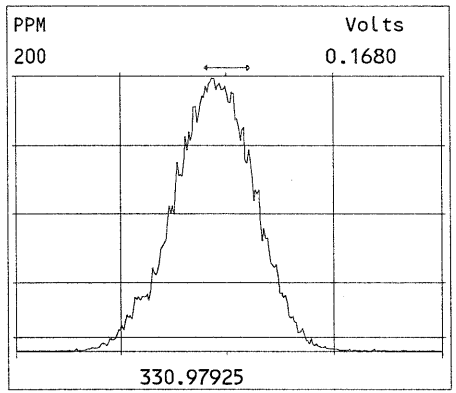


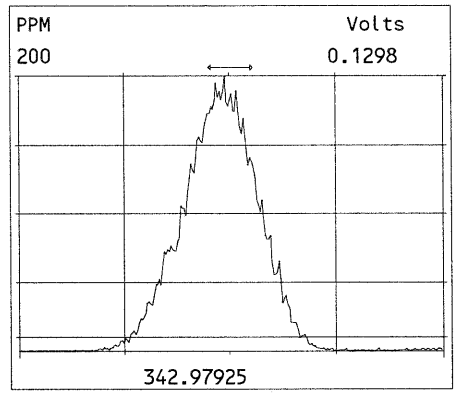


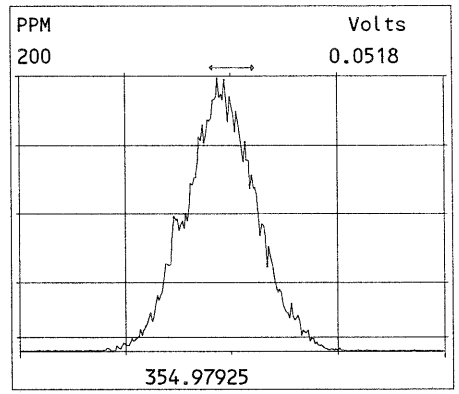


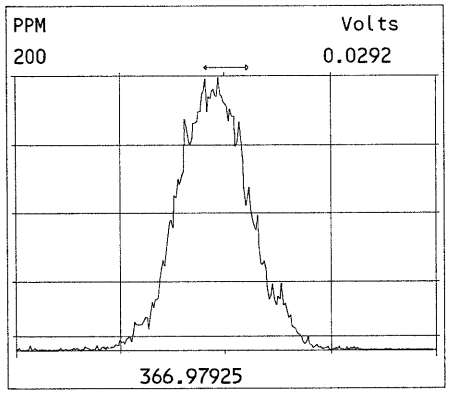
Peak Locate Examination:31-JUL-2019:12:22 File:31JUL19Z
Experiment:1668PCB Function:5 Reference:PFK

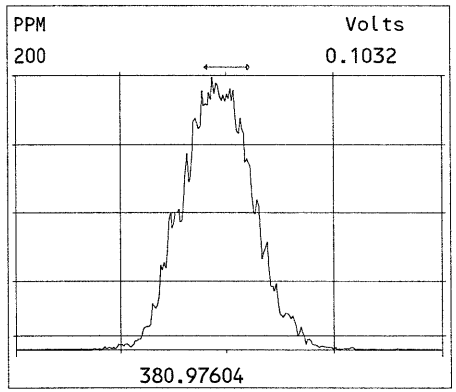


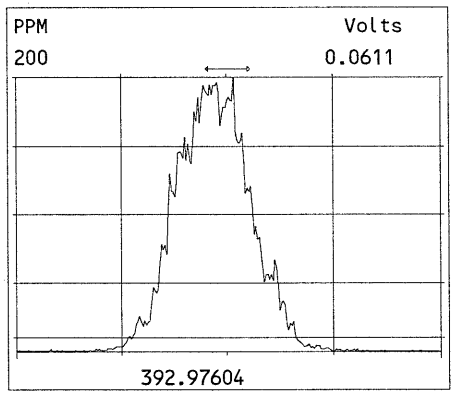


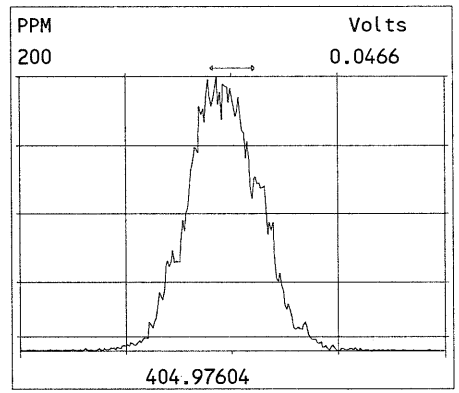


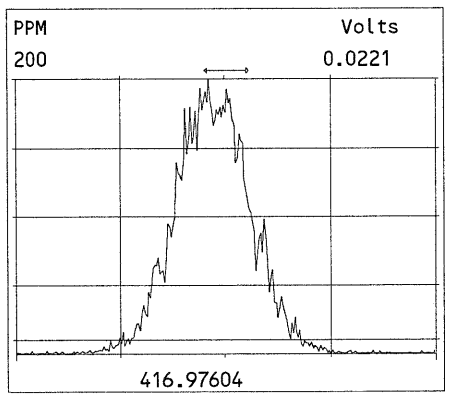


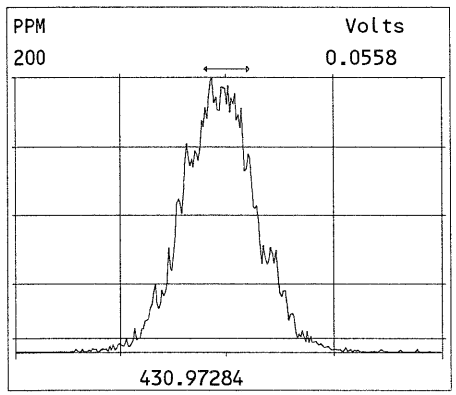


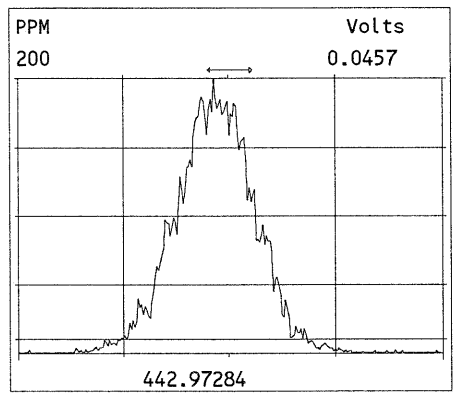




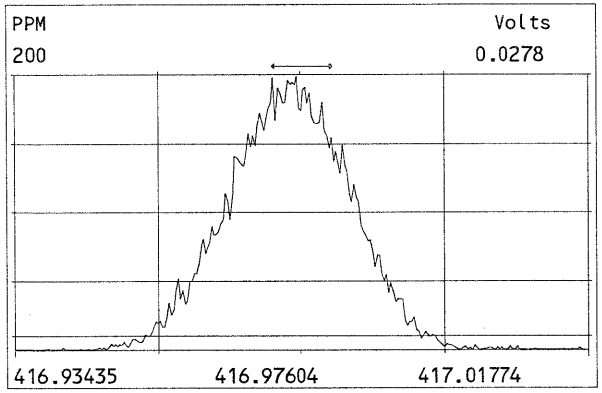


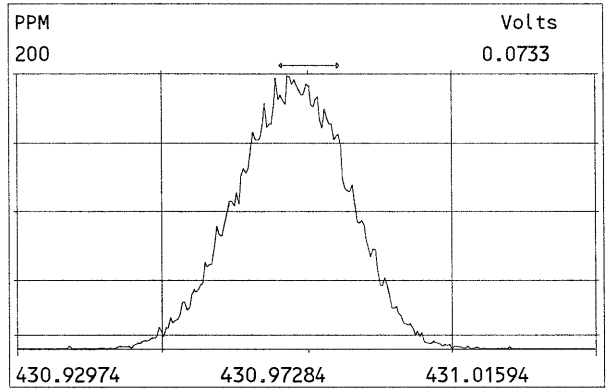


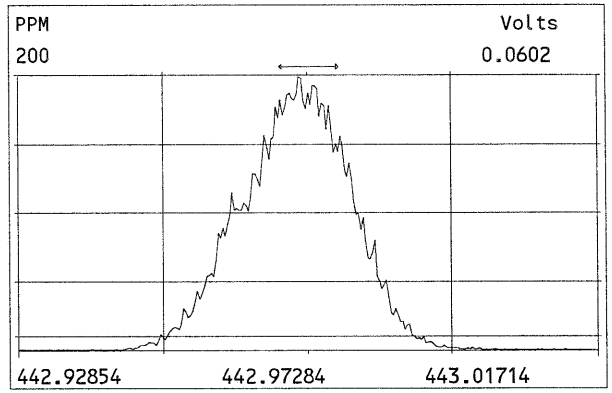


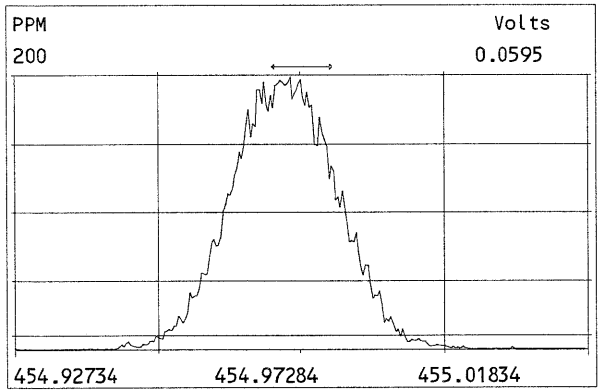


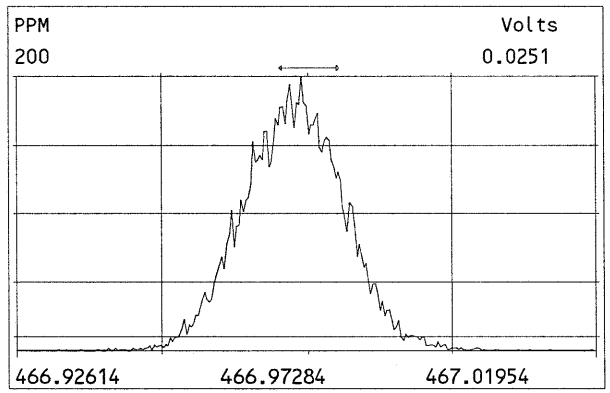
Peak Locate Examination:31-JUL-2019:12:23 File:31JUL19Z
Experiment:1668PCB Function:6 Reference:PFK

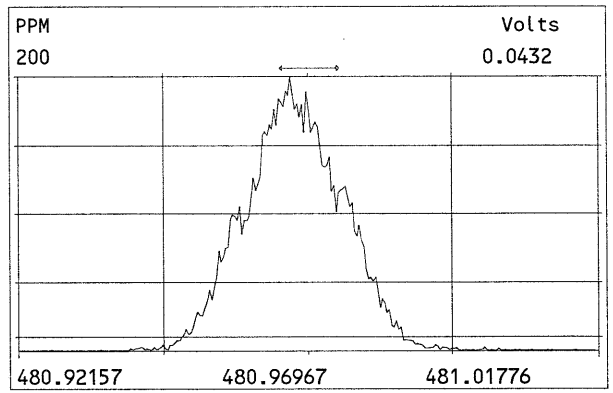


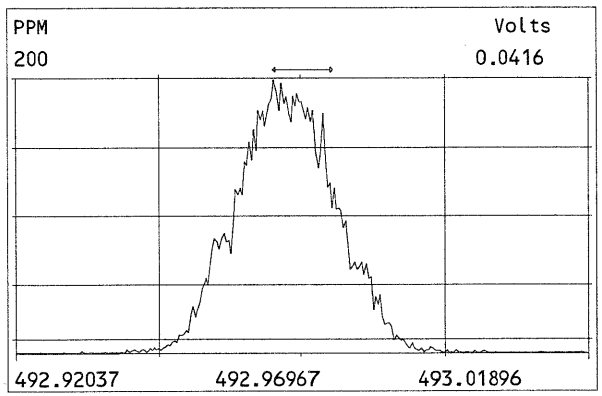


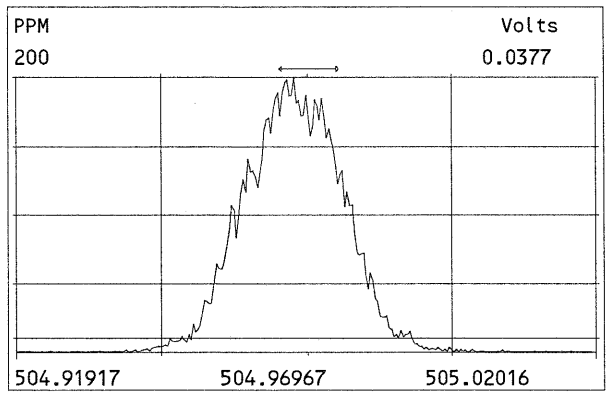


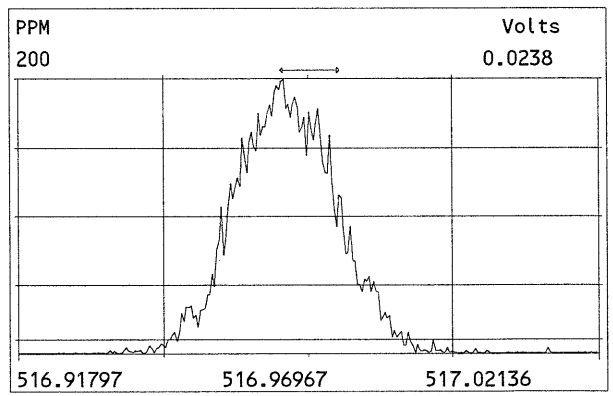




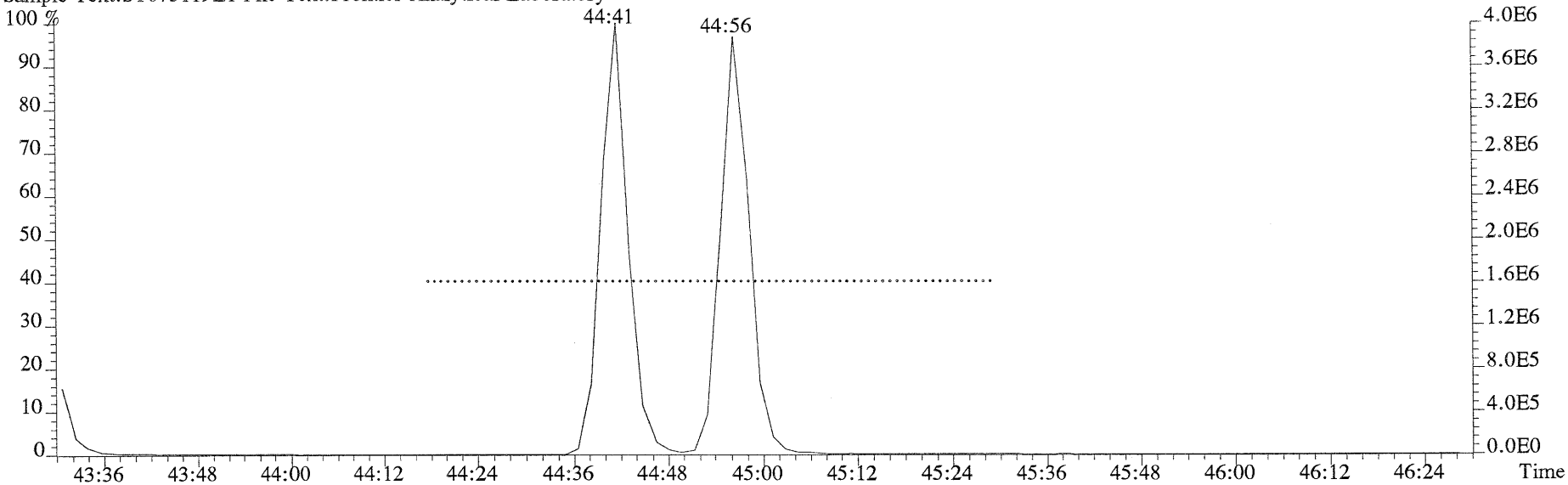




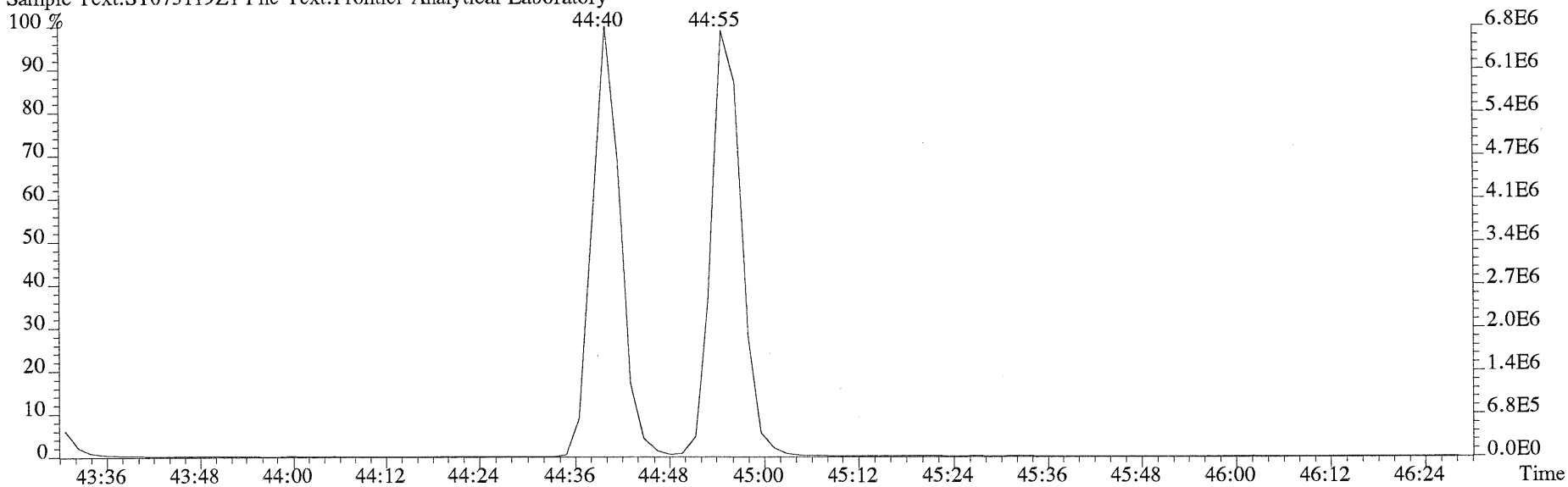




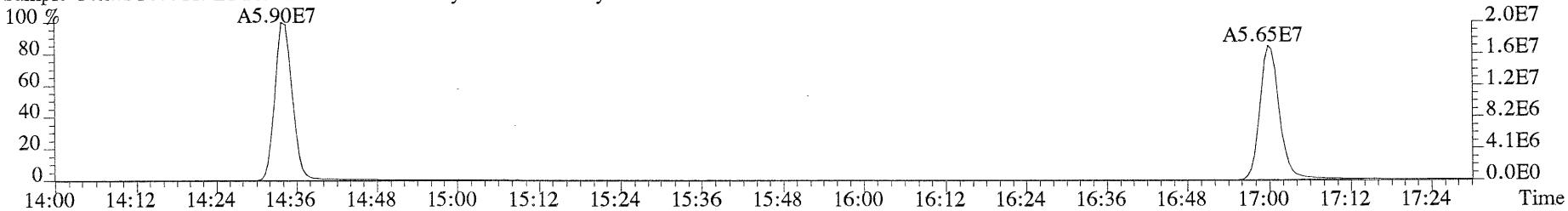
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



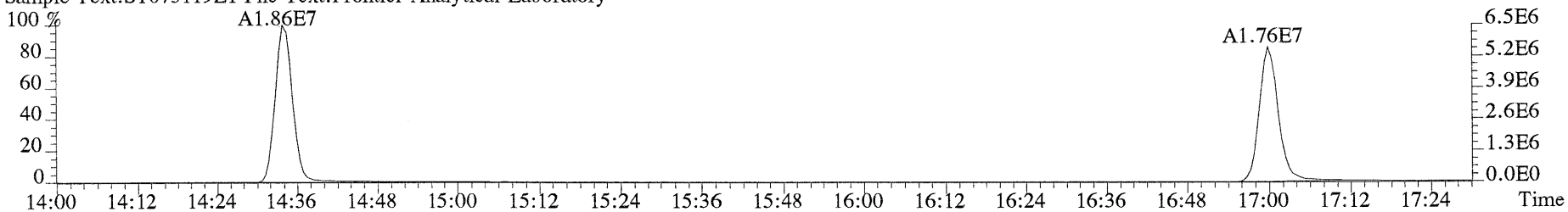
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



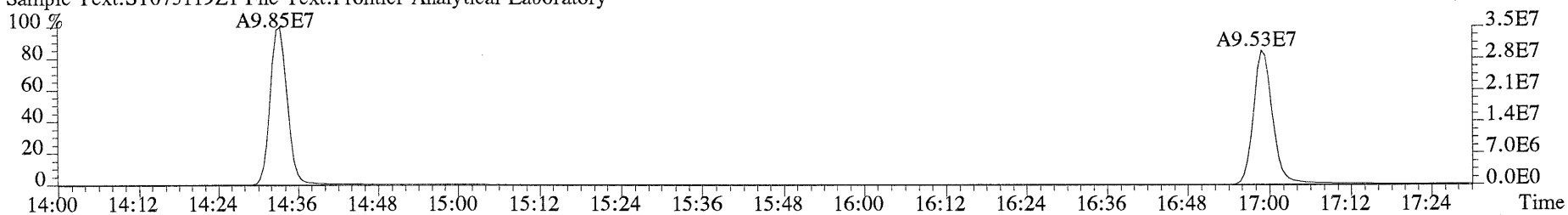
File:31JUL19Z #1-783 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



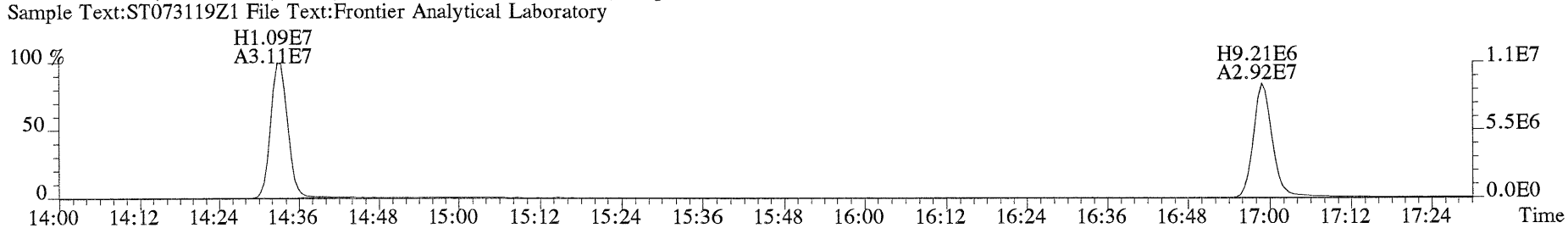
File:31JUL19Z #1-783 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



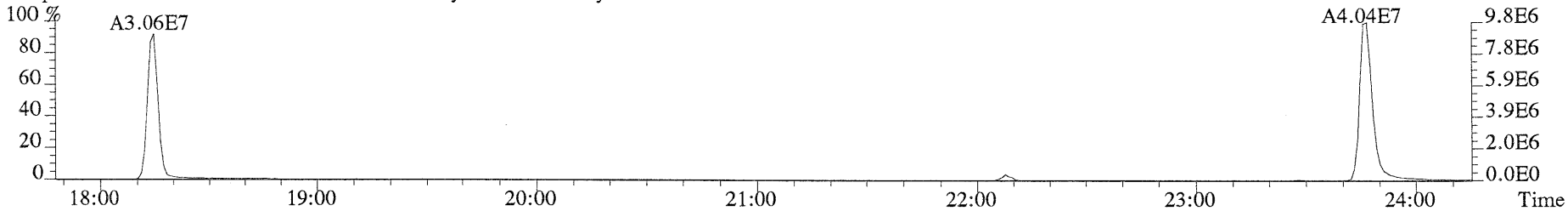
File:31JUL19Z #1-783 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



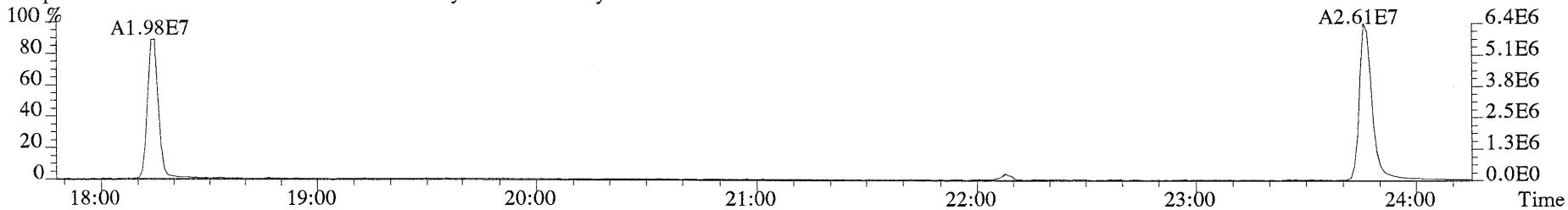
File:31JUL19Z #1-783 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



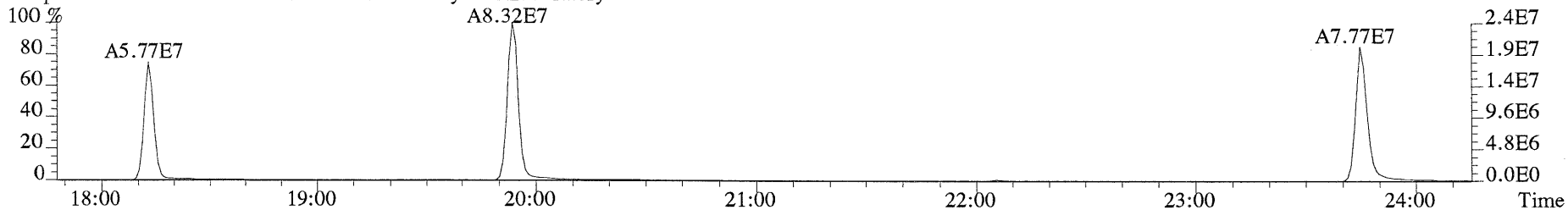
File:31JUL19Z #1-521 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



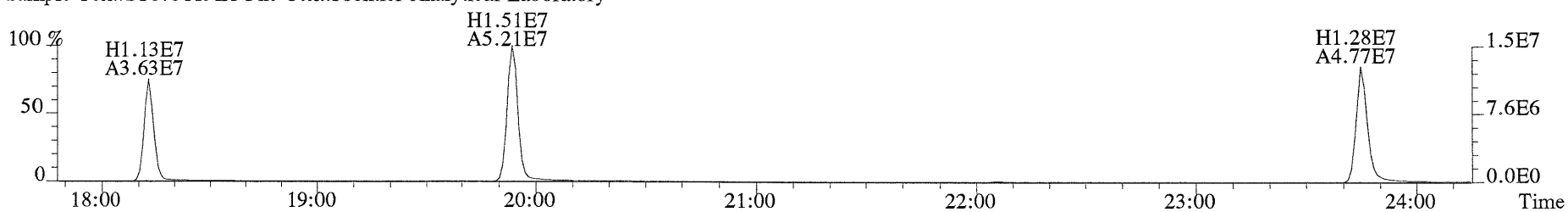
File:31JUL19Z #1-521 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
223.9975 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



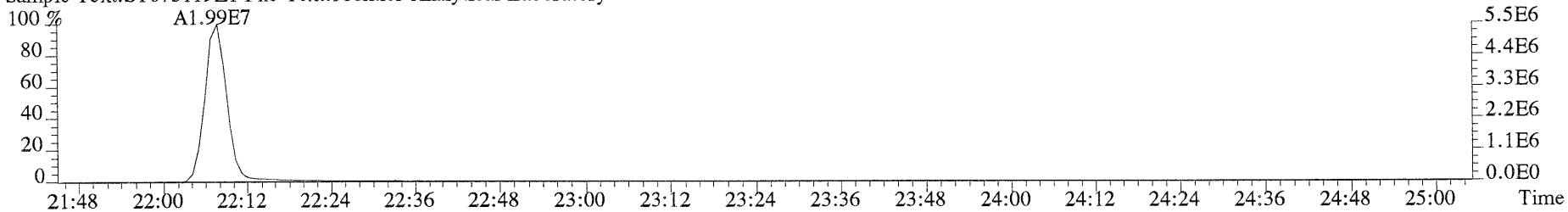
File:31JUL19Z #1-521 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



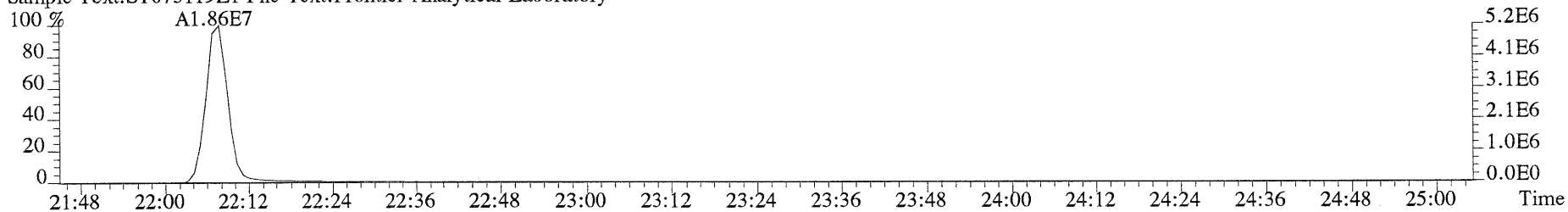
File:31JUL19Z #1-521 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



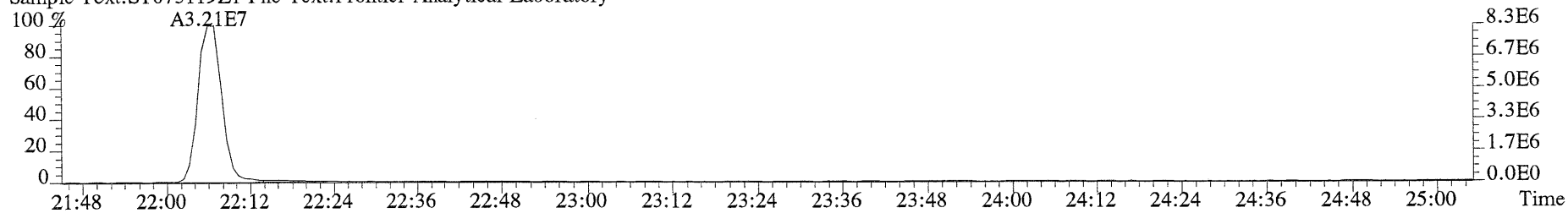
File:31JUL19Z #1-521 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



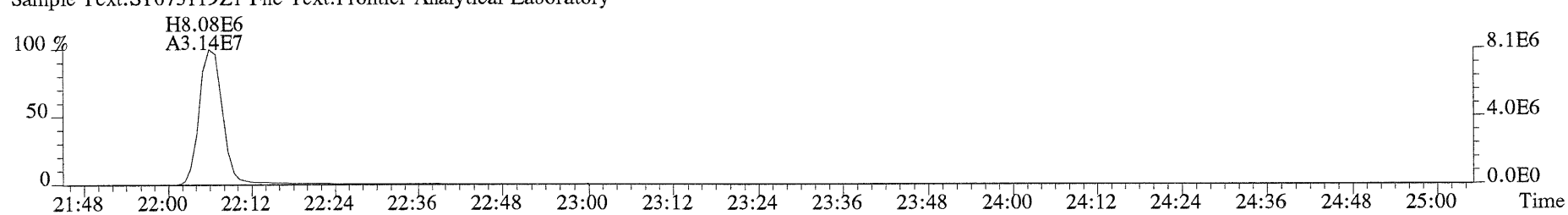
File:31JUL19Z #1-521 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



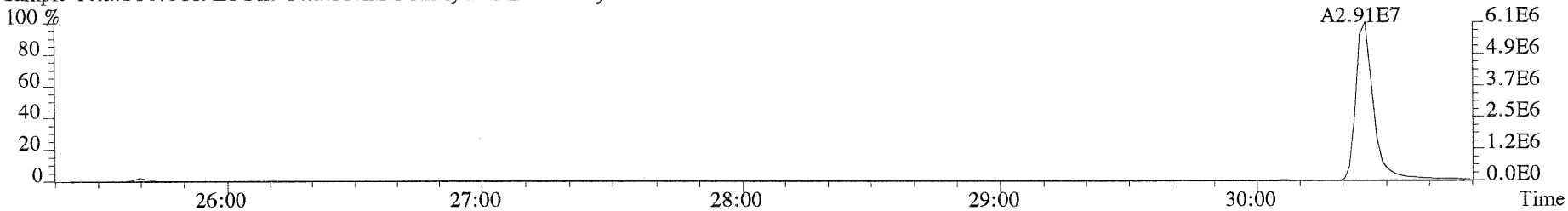
File:31JUL19Z #1-521 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



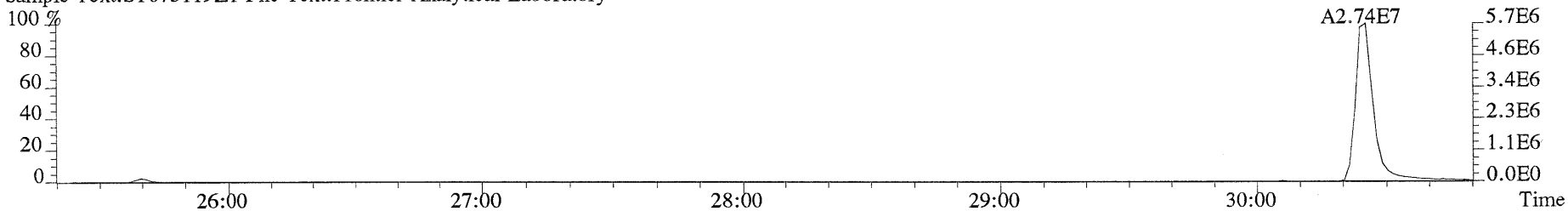
File:31JUL19Z #1-521 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



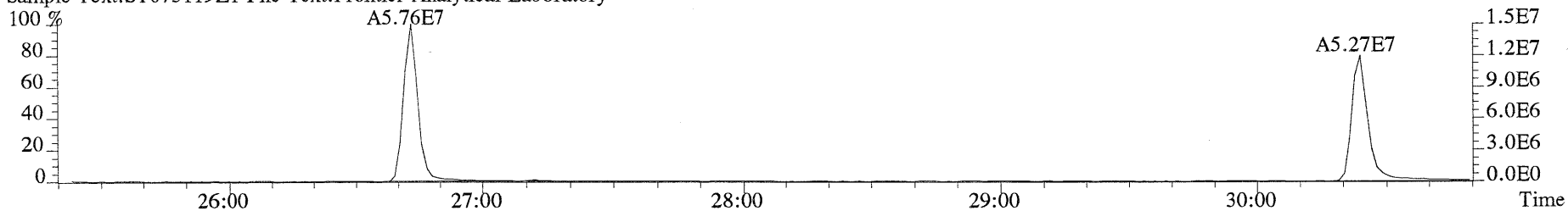
File:31JUL19Z #1-401 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



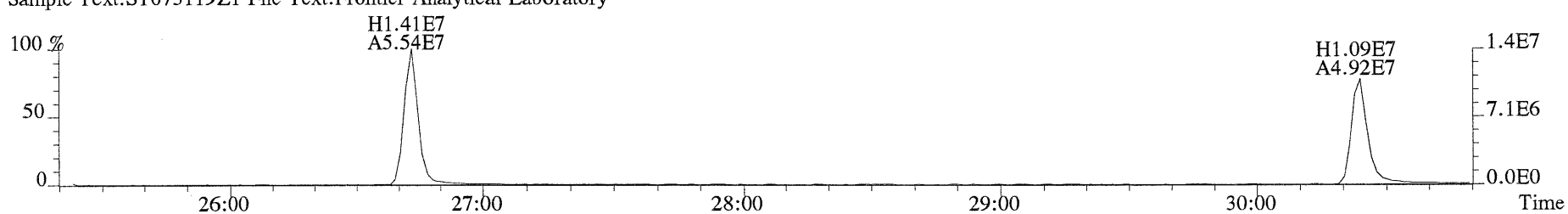
File:31JUL19Z #1-401 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



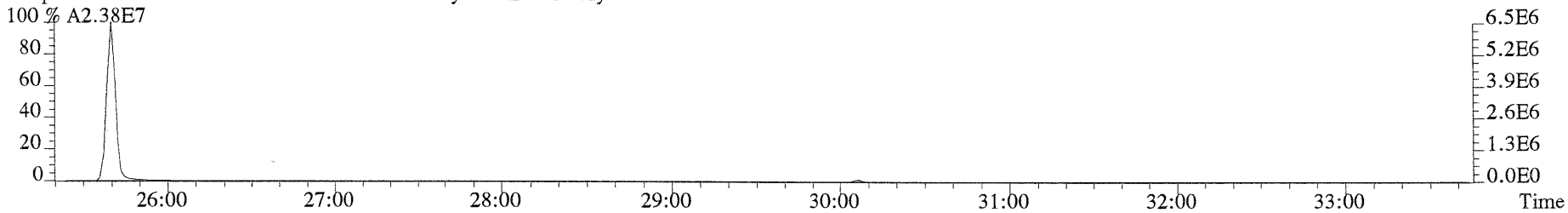
File:31JUL19Z #1-401 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-401 Acq:31-JUL-2019 12:23:40 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:ST073119Z1 File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-401 Acq:31-JUL-2019 12:23:40 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:ST073119Z1 File Text:Frontier Analytical Laboratory



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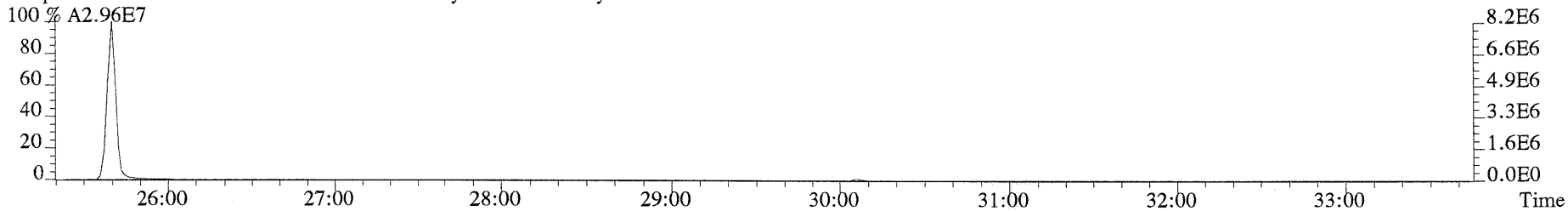
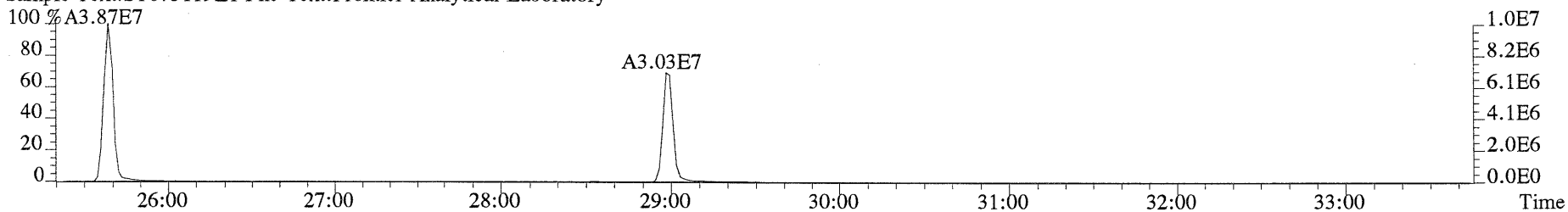
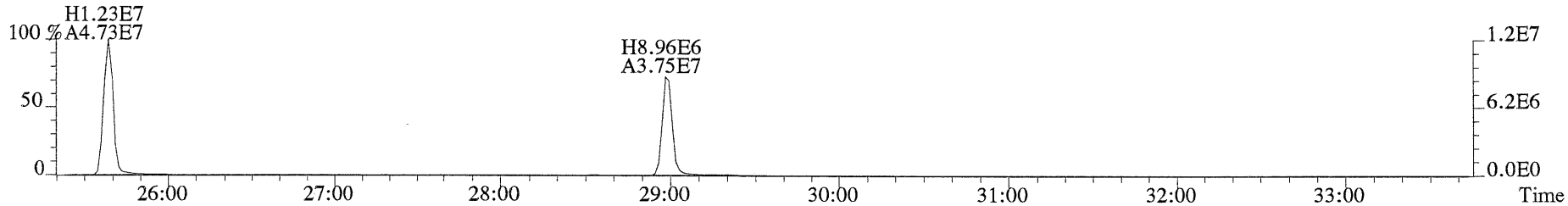
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



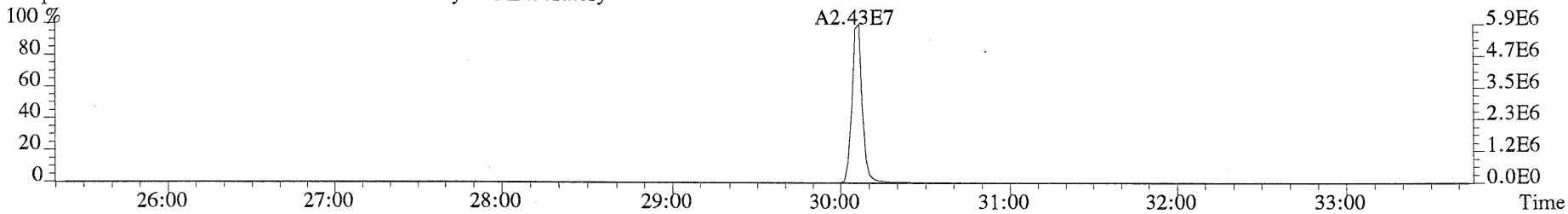
File:31JUL19Z #1-401 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



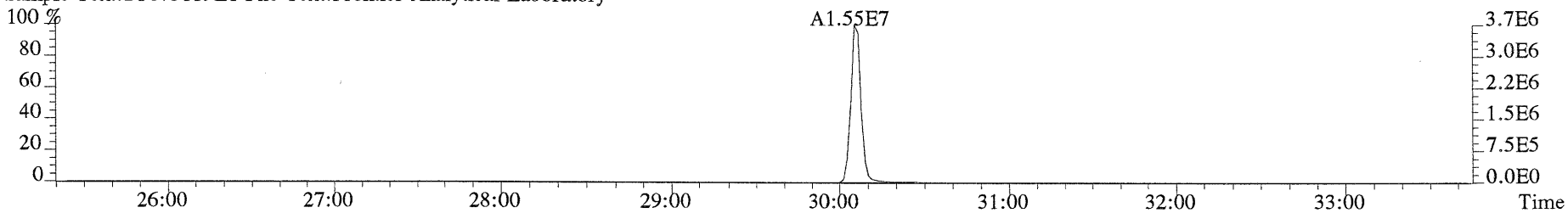
File:31JUL19Z #1-401 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



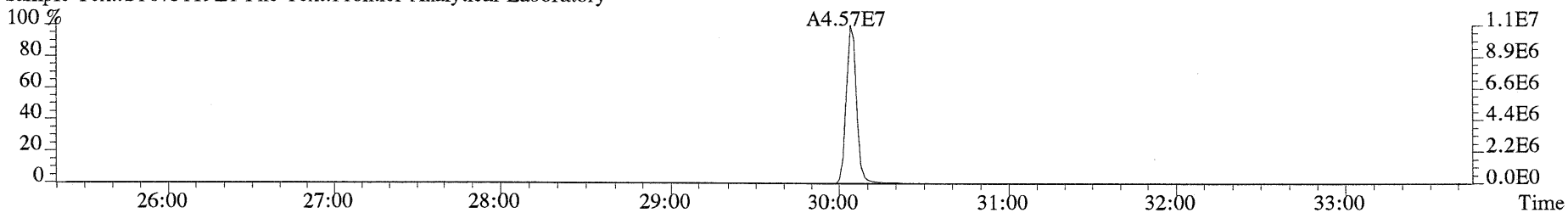
File:31JUL19Z #1-401 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



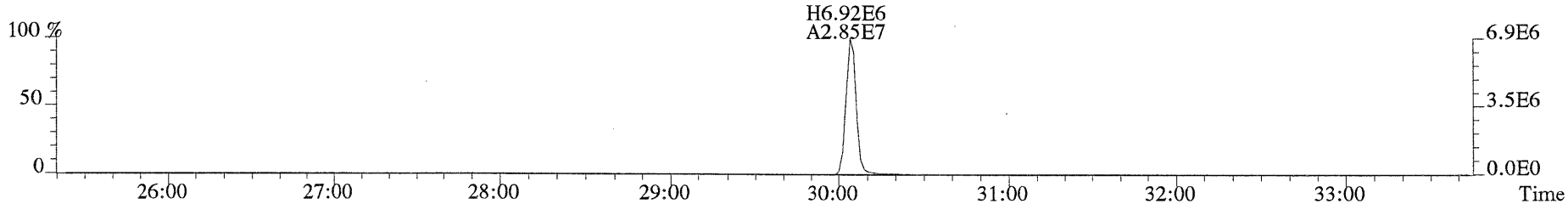
File:31JUL19Z #1-401 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



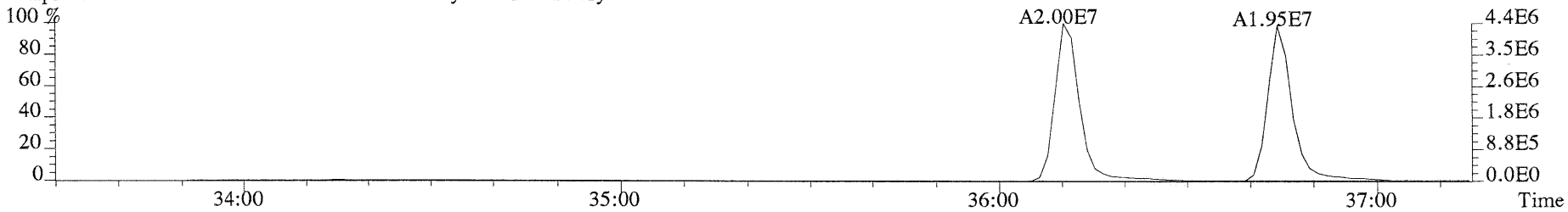
File:31JUL19Z #1-401 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



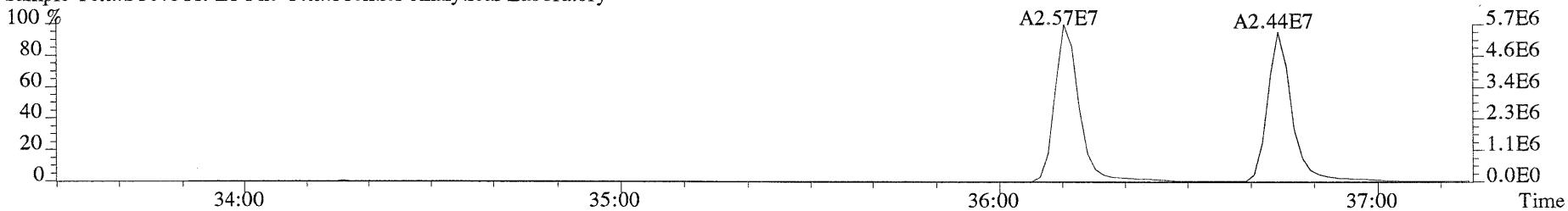
File:31JUL19Z #1-401 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



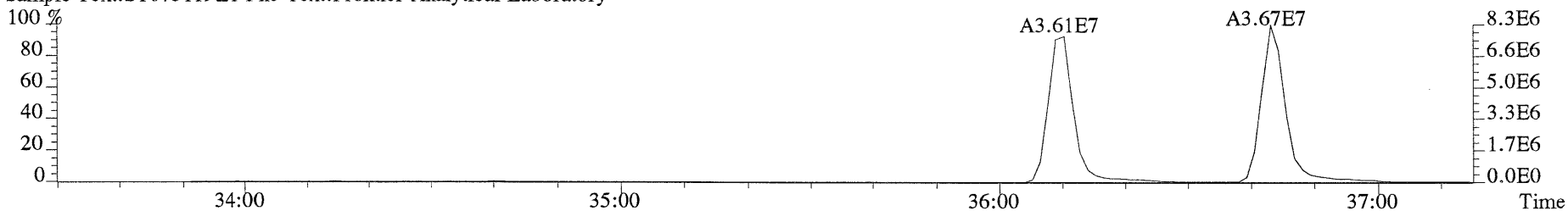
File:31JUL19Z #1-180 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



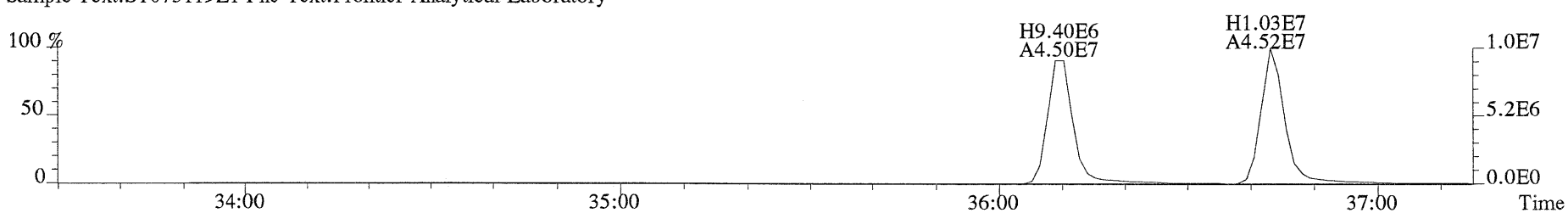
File:31JUL19Z #1-180 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



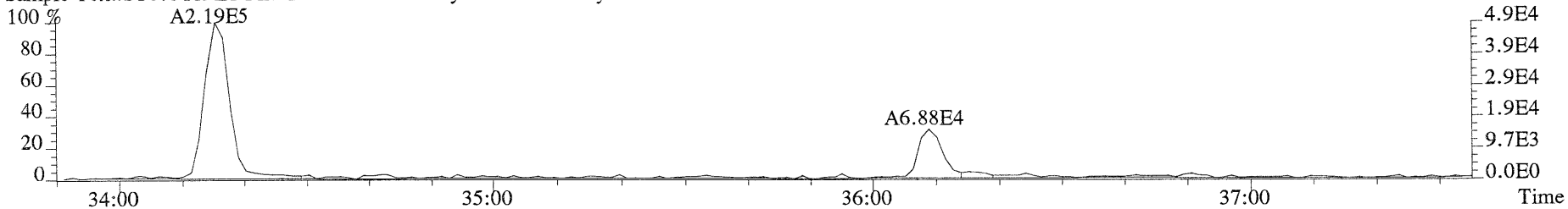
File:31JUL19Z #1-180 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



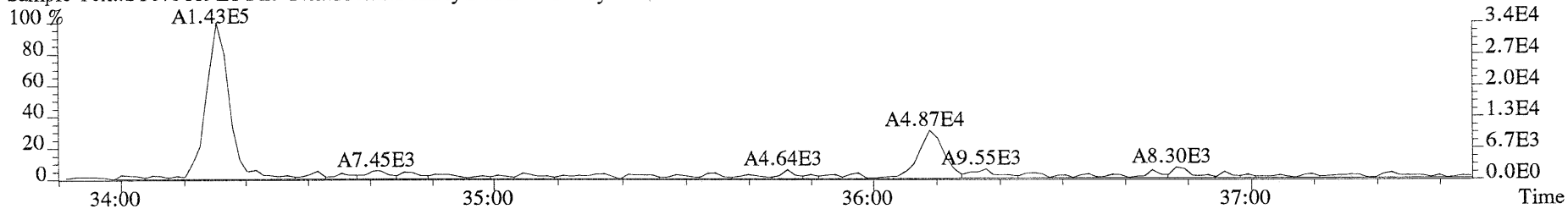
File:31JUL19Z #1-180 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



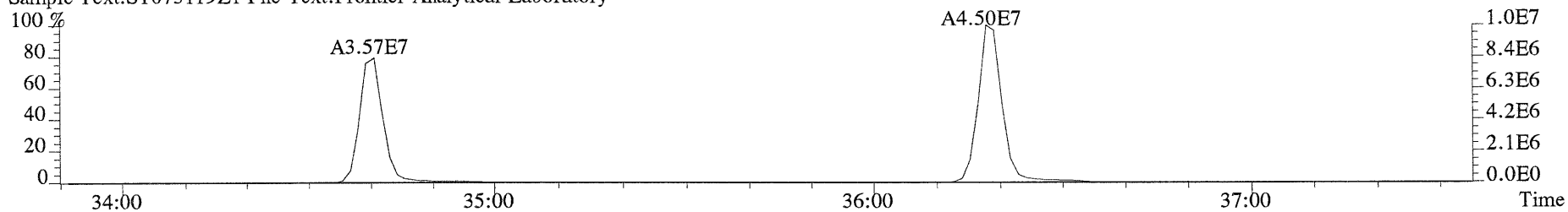
File:31JUL19Z #1-180 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



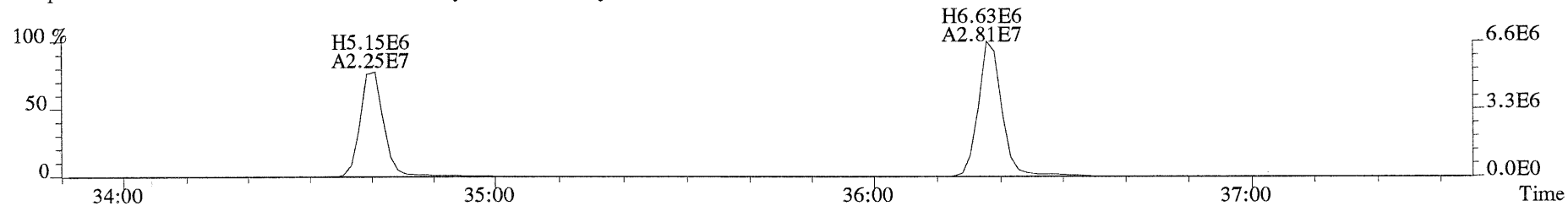
File:31JUL19Z #1-180 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



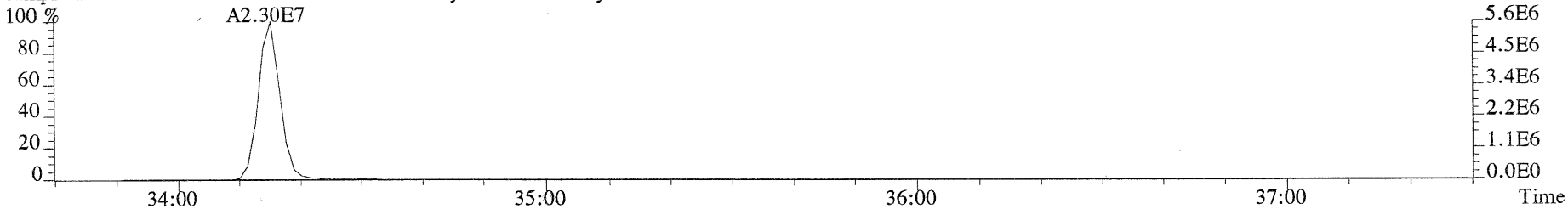
File:31JUL19Z #1-180 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



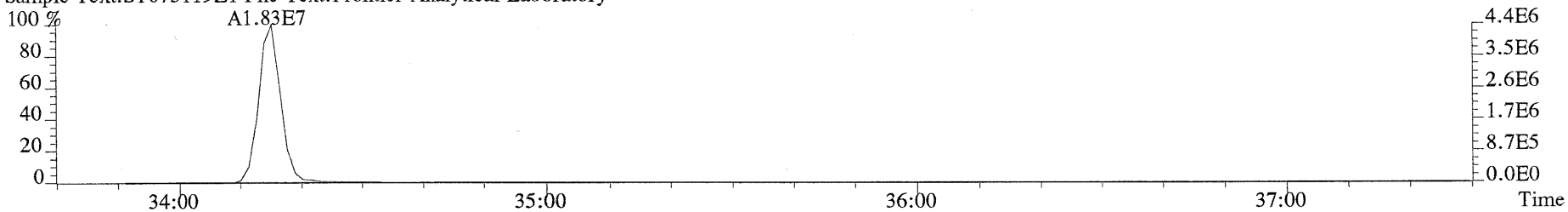
File:31JUL19Z #1-180 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



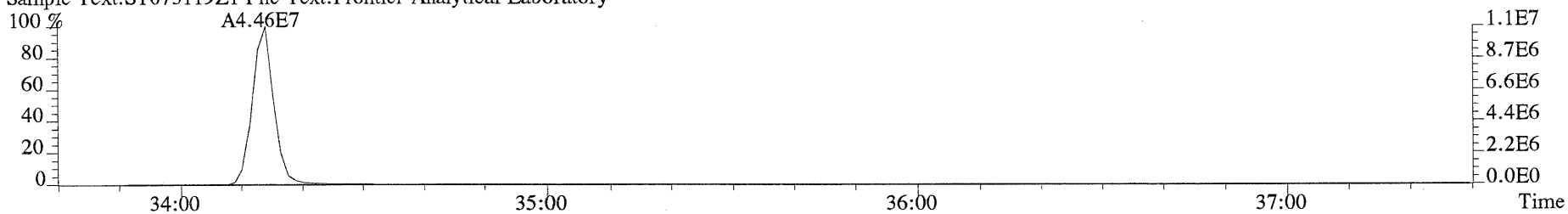
File:31JUL19Z #1-180 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



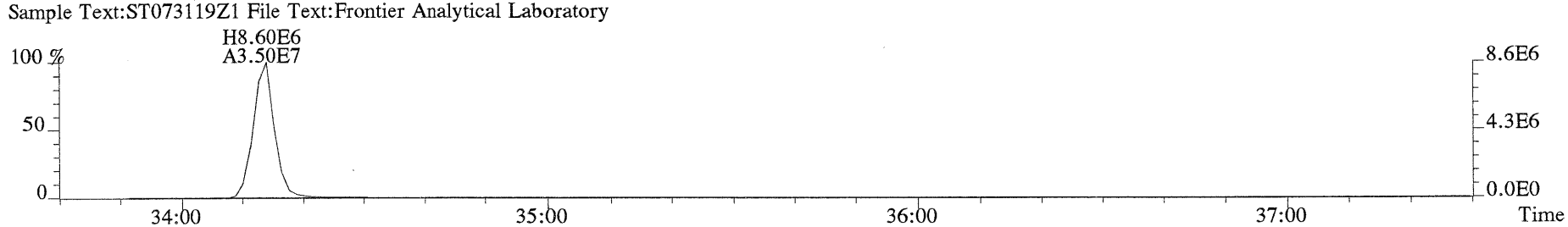
File:31JUL19Z #1-180 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



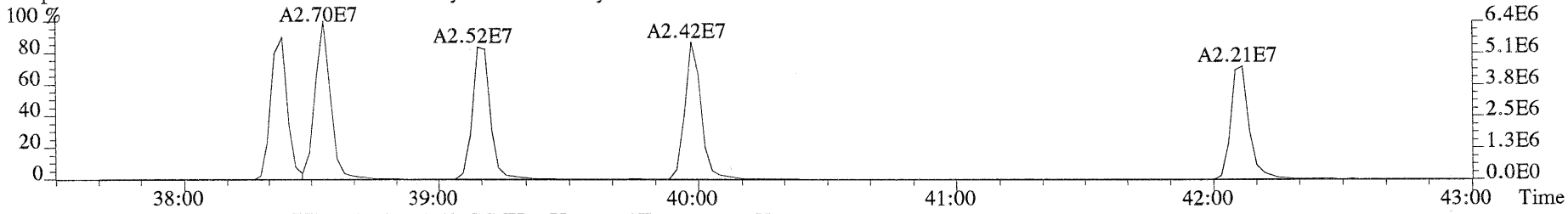
File:31JUL19Z #1-180 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



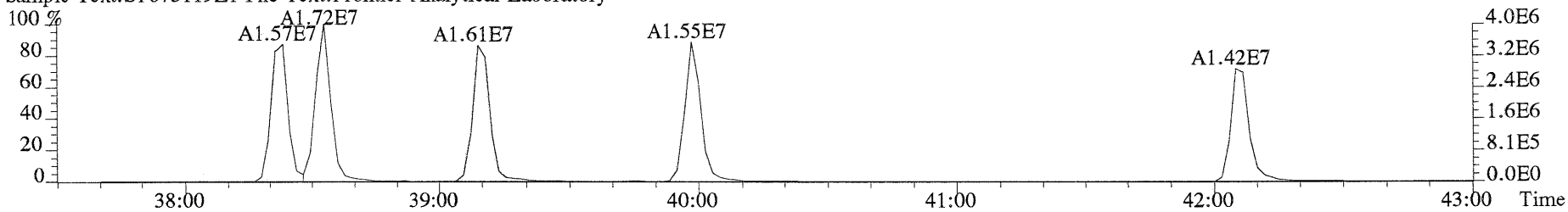
File:31JUL19Z #1-180 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



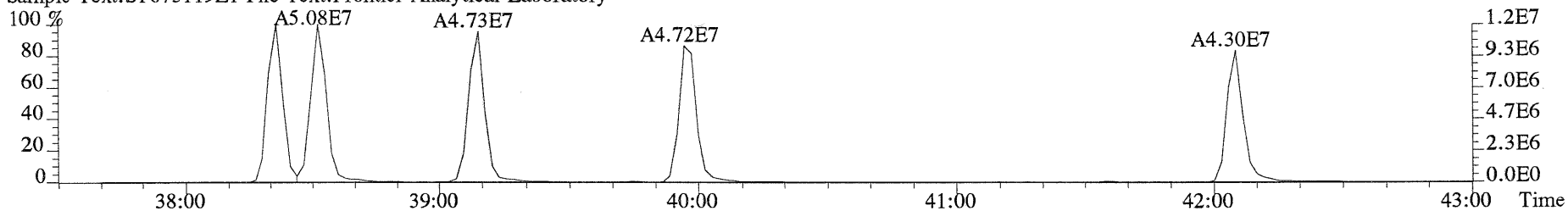
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



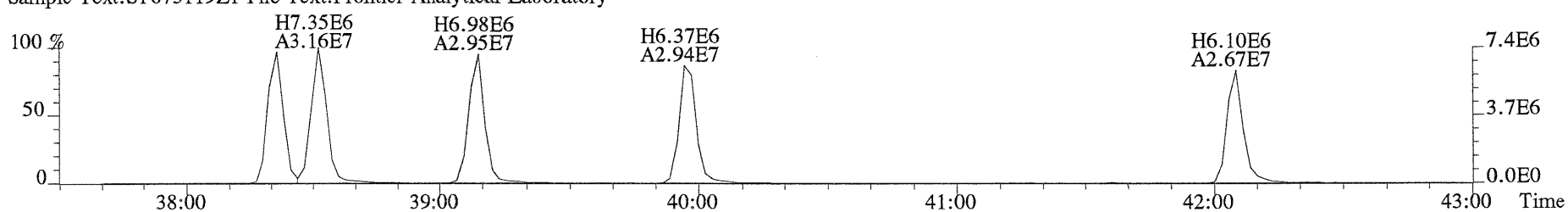
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



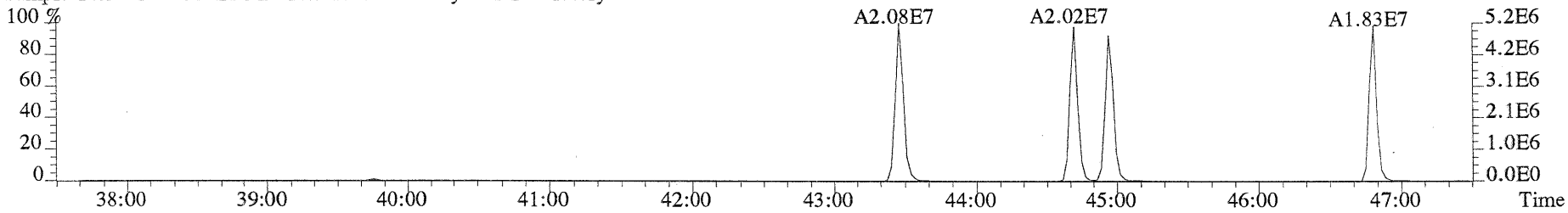
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



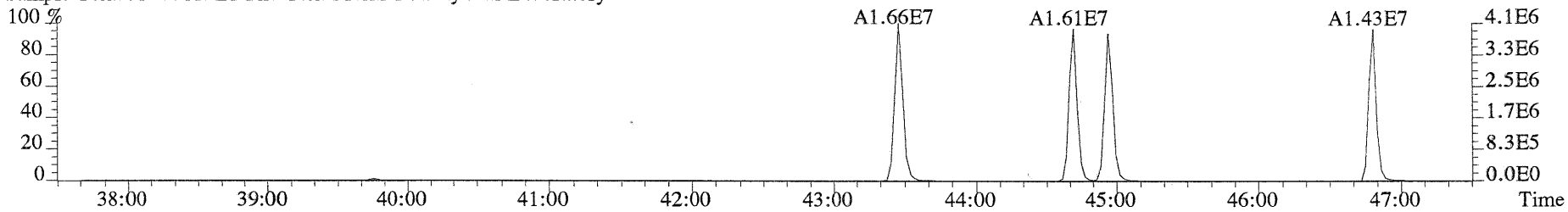
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



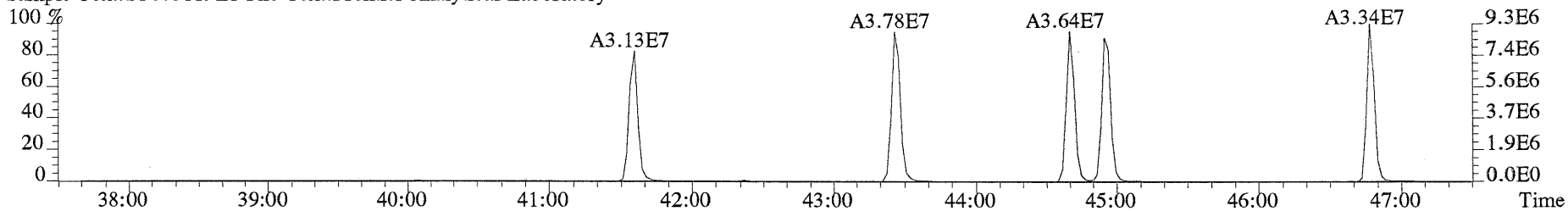
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



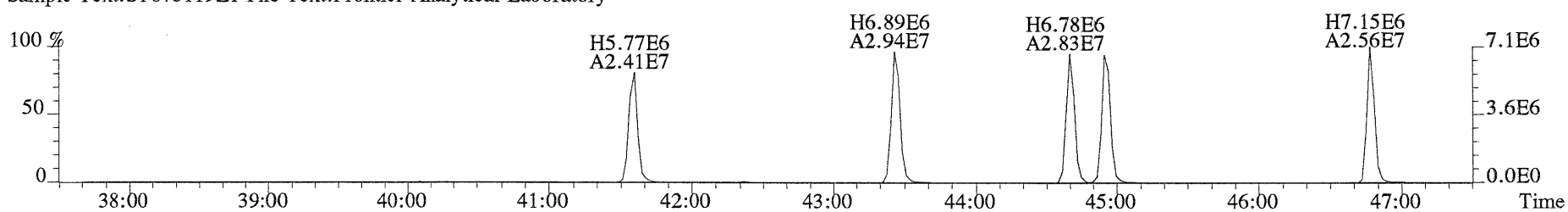
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



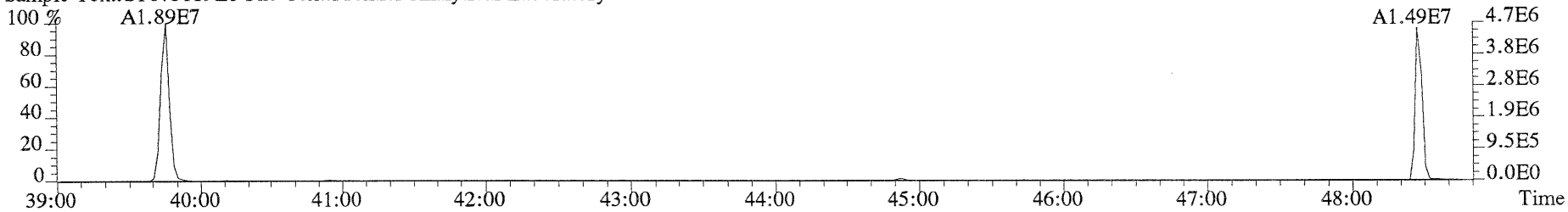
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



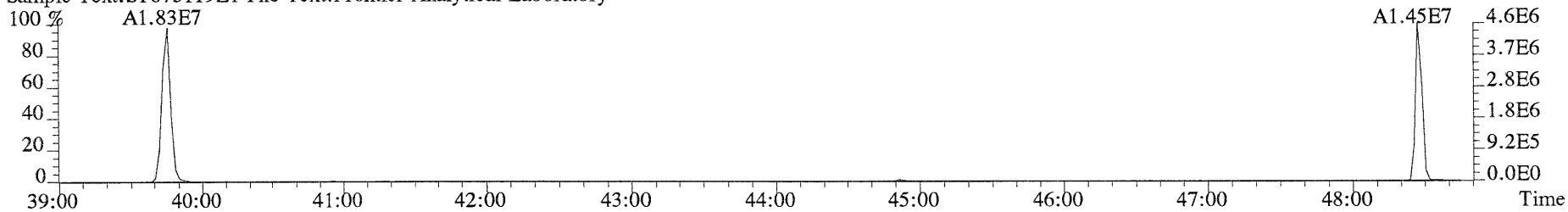
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



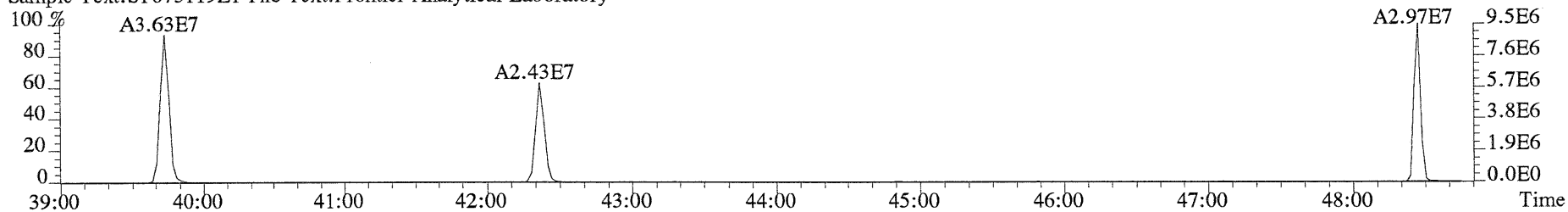
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



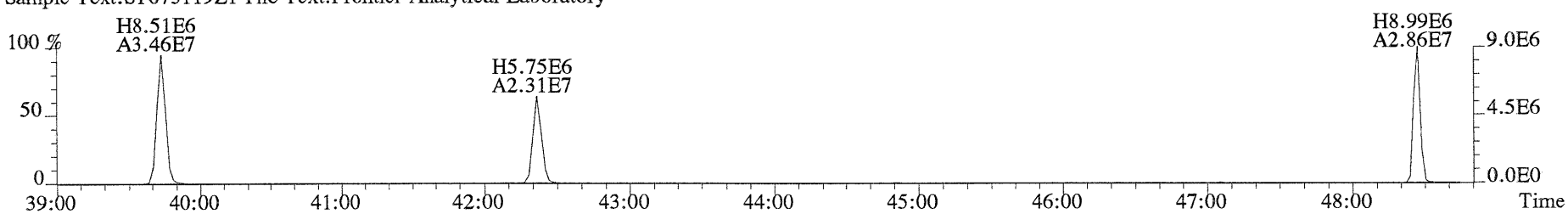
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



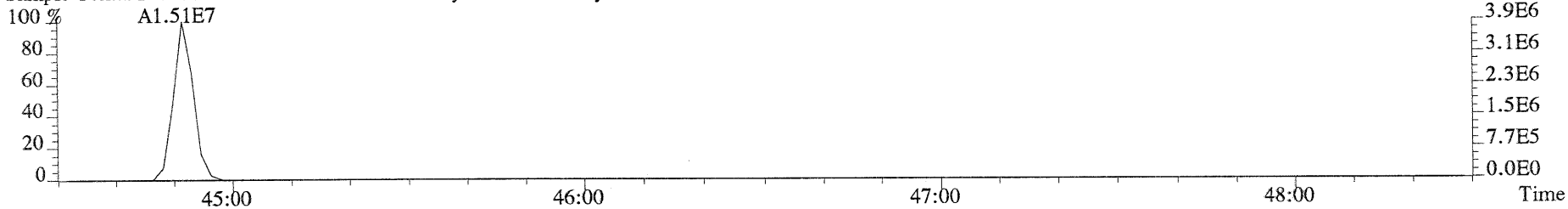
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



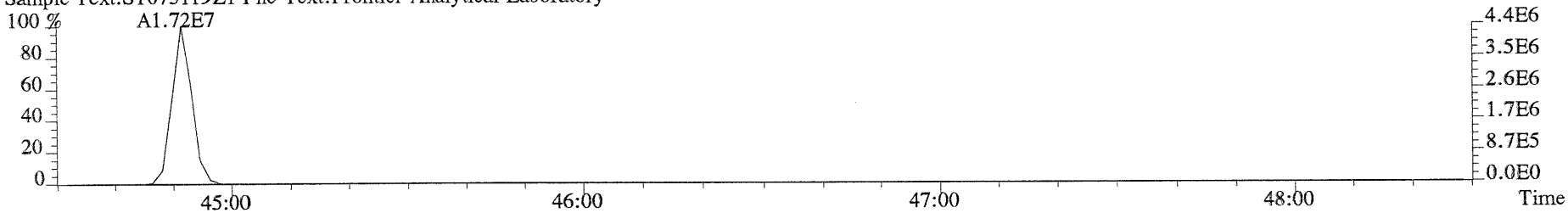
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



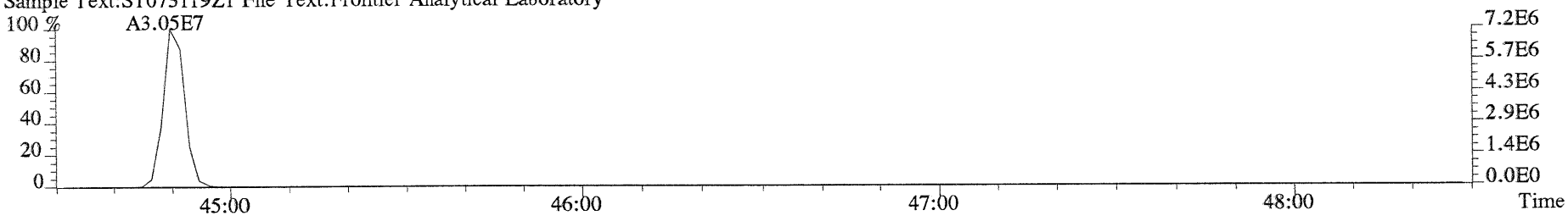
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



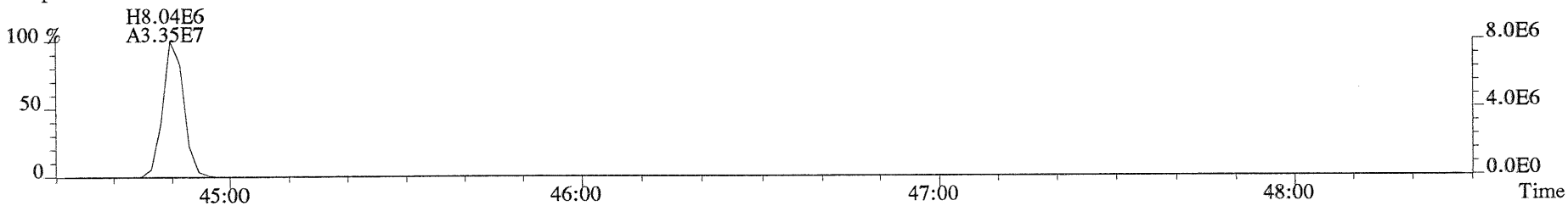
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



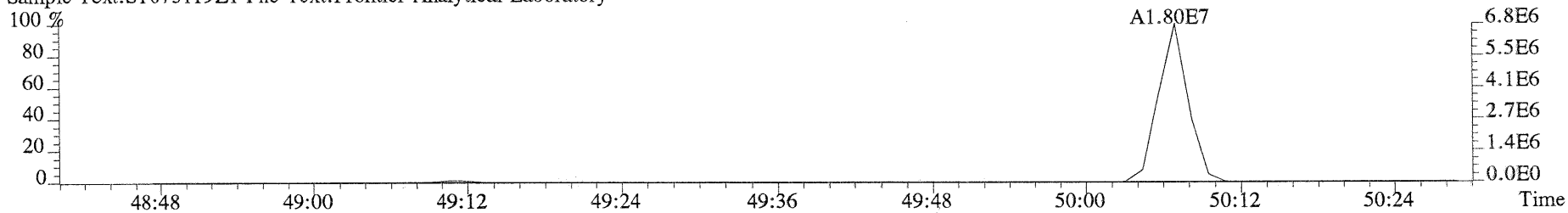
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



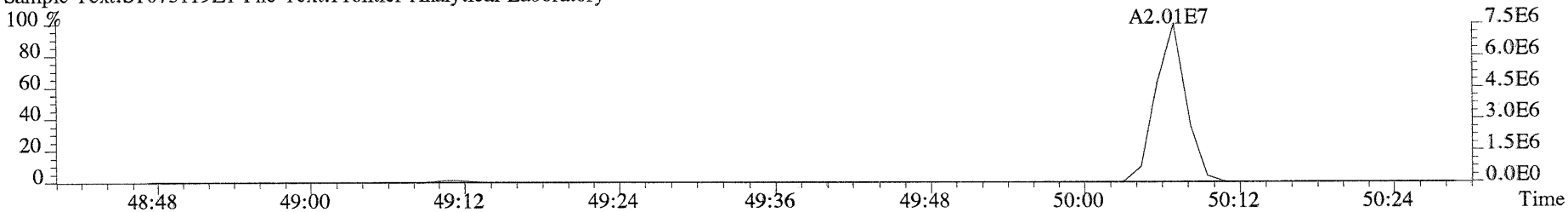
File:31JUL19Z #1-405 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



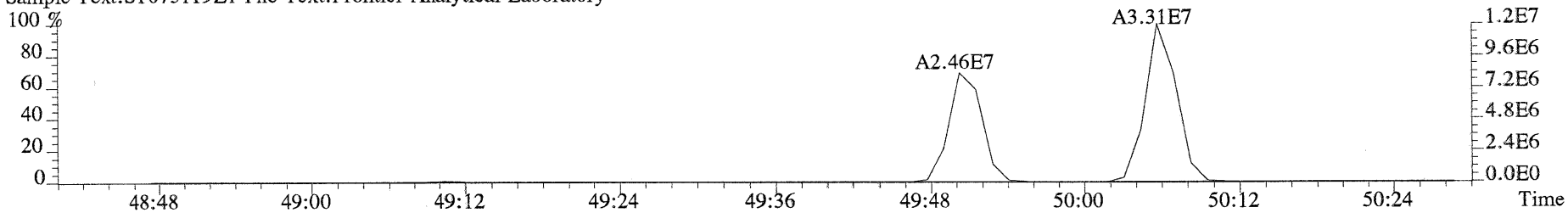
File:31JUL19Z #1-315 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



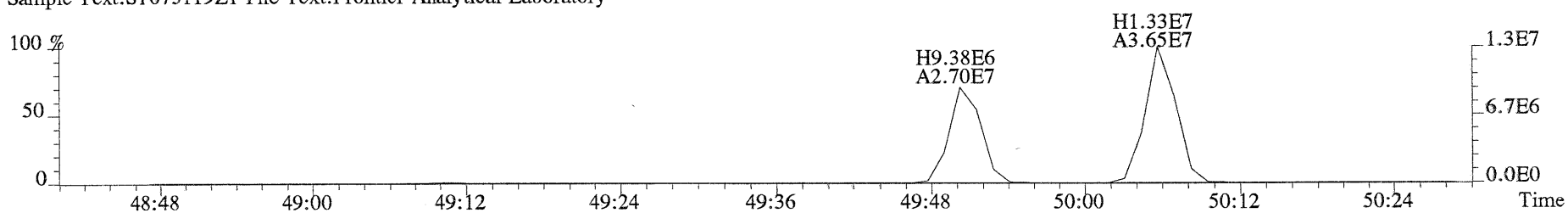
File:31JUL19Z #1-315 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



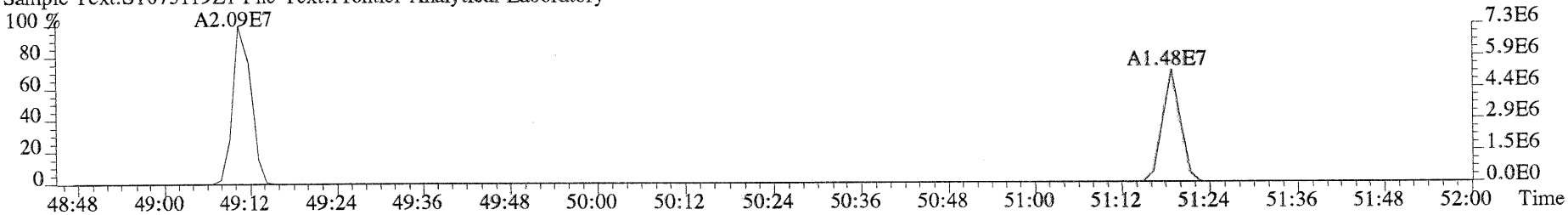
File:31JUL19Z #1-315 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



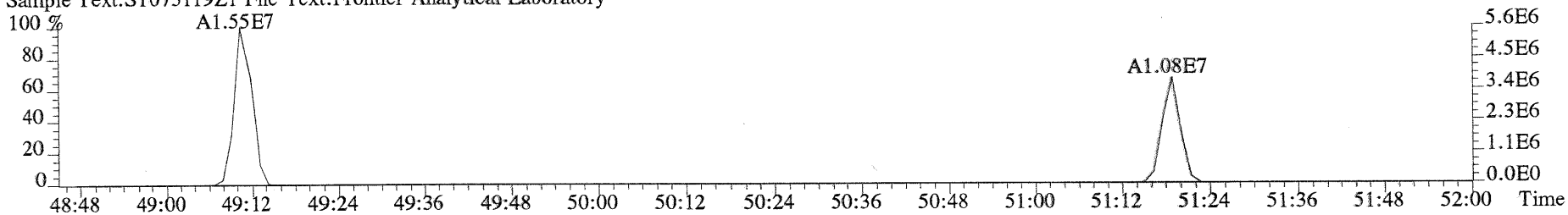
File:31JUL19Z #1-315 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



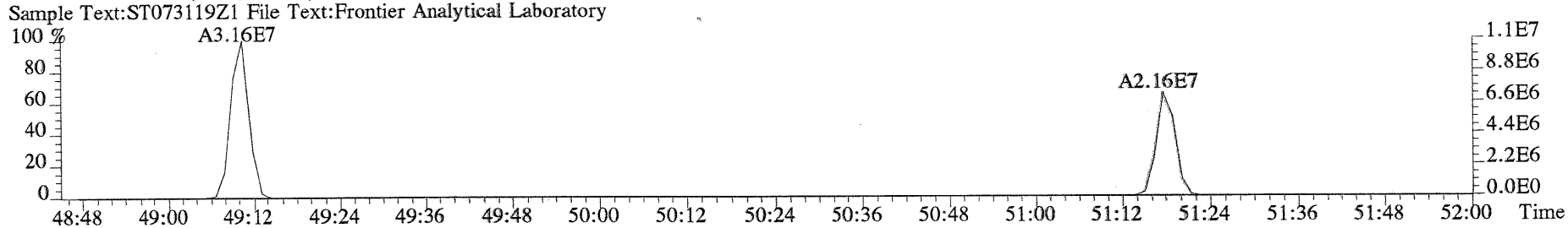
File:31JUL19Z #1-315 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



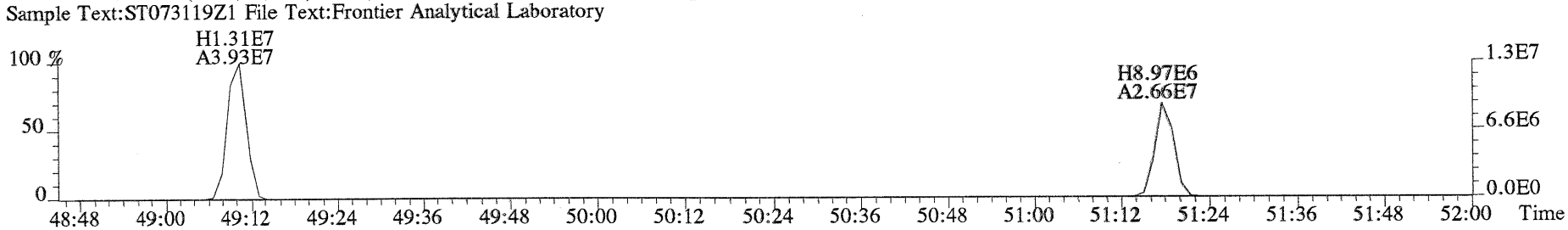
File:31JUL19Z #1-315 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



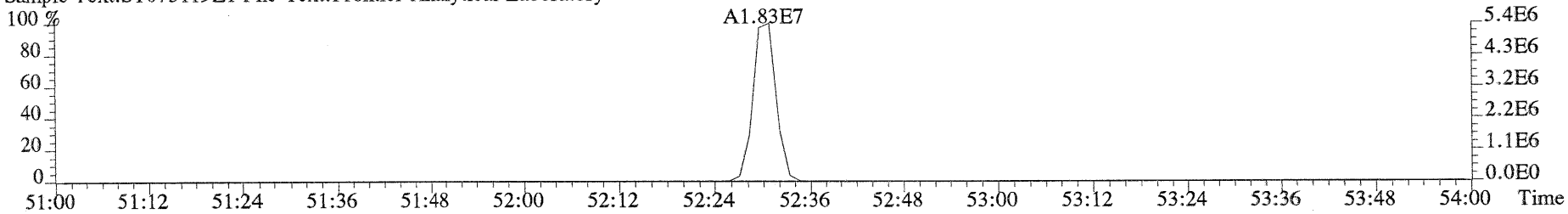
File:31JUL19Z #1-315 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



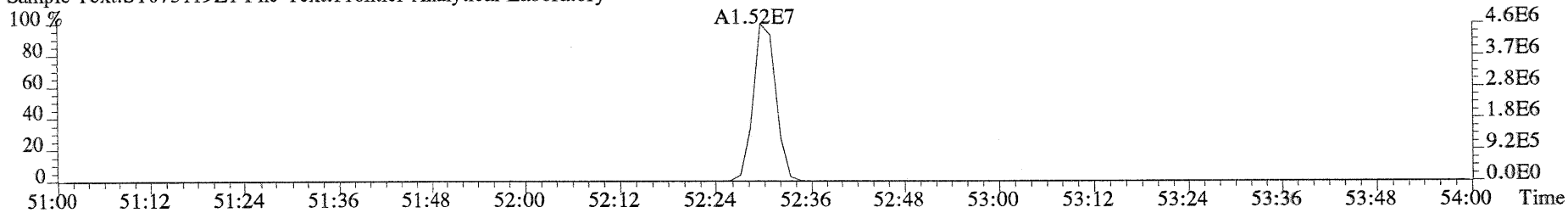
File:31JUL19Z #1-315 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



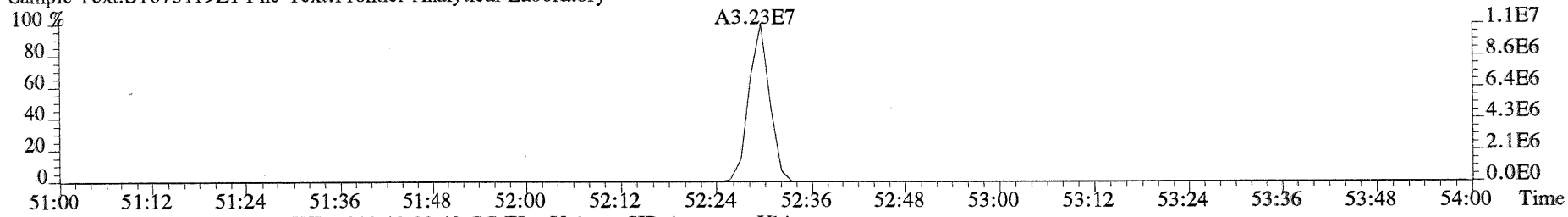
File:31JUL19Z #1-315 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



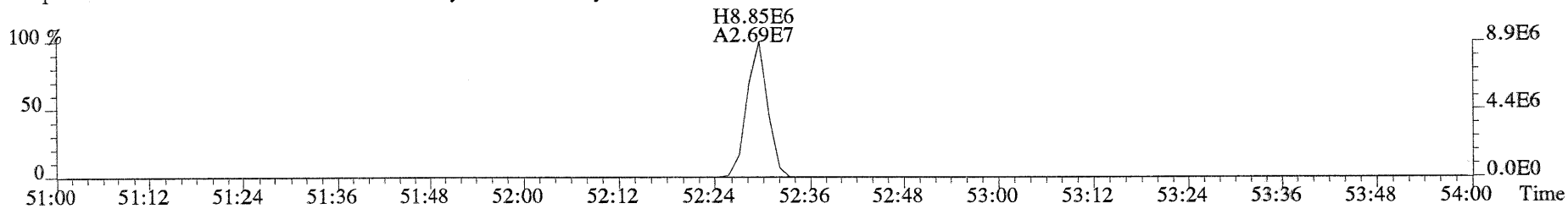
File:31JUL19Z #1-315 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory



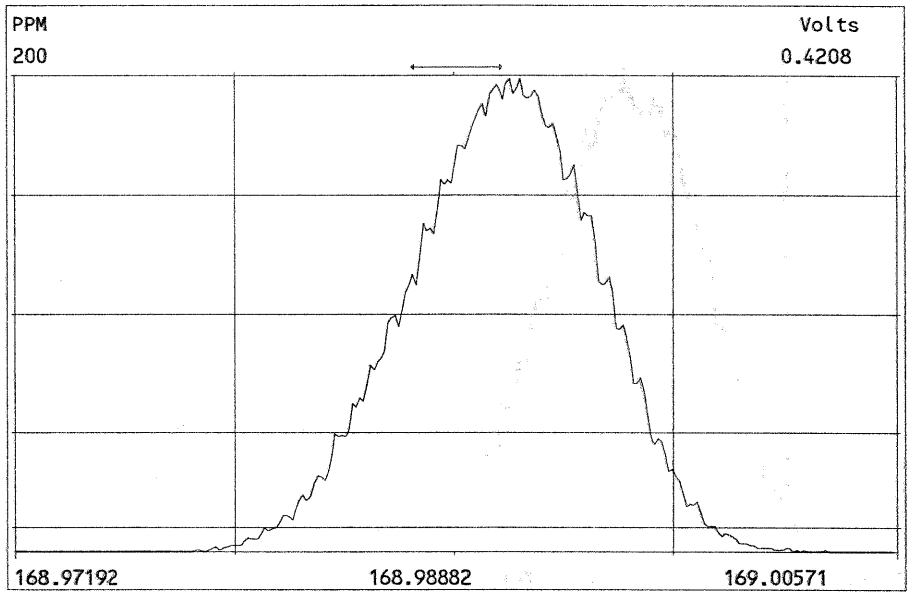
File:31JUL19Z #1-315 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory

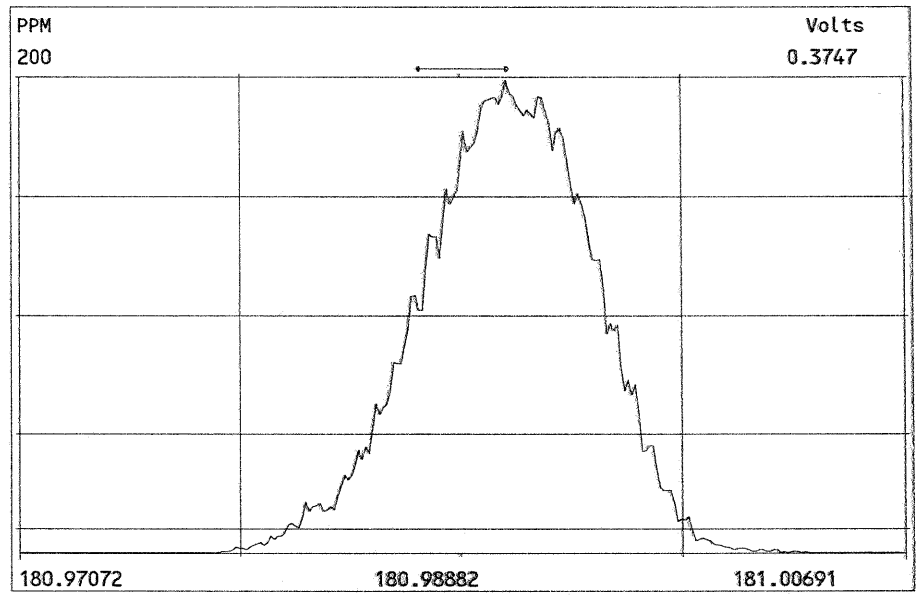


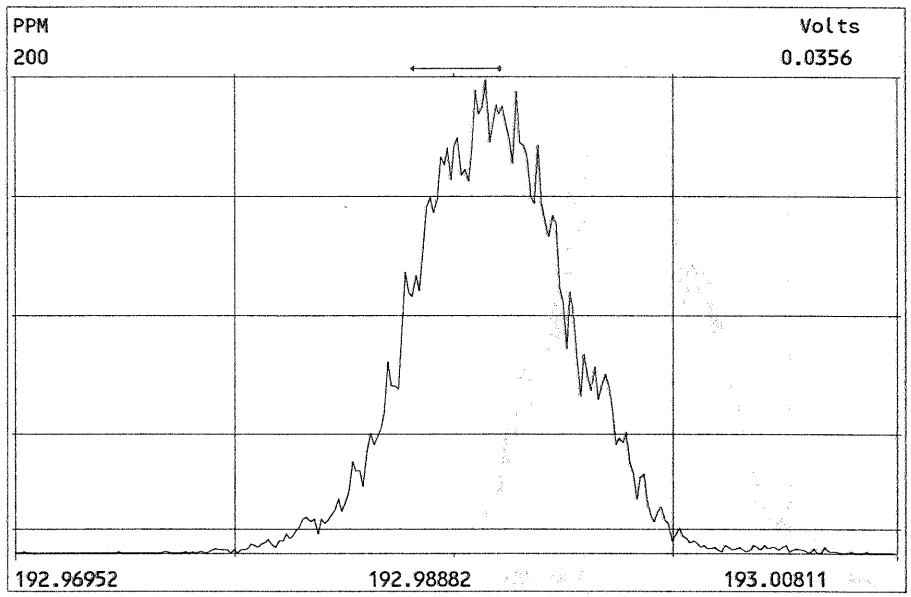
File:31JUL19Z #1-315 Acq:31-JUL-2019 12:23:40 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z1 File Text:Frontier Analytical Laboratory

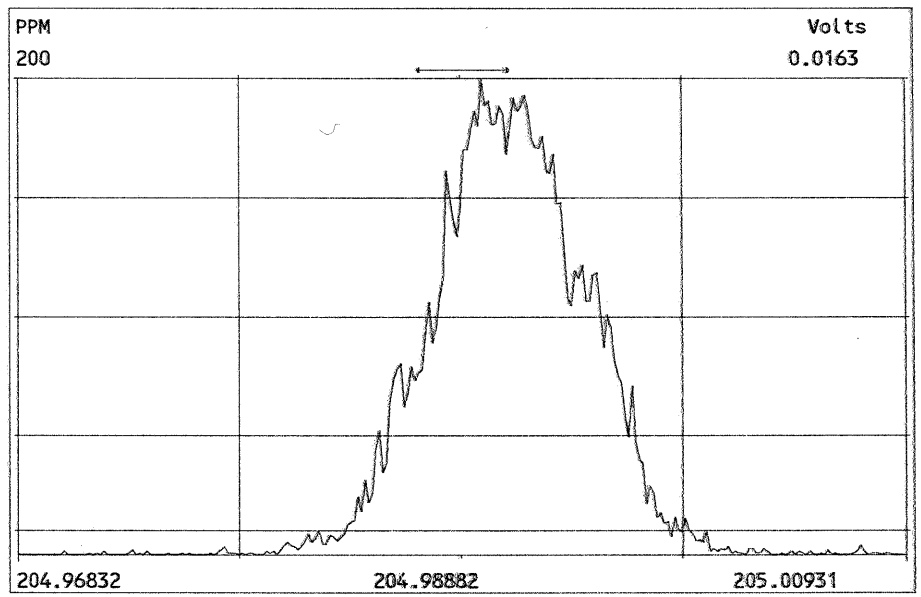


Peak Locate Examination: 1-AUG-2019:04:28 File:31JUL19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

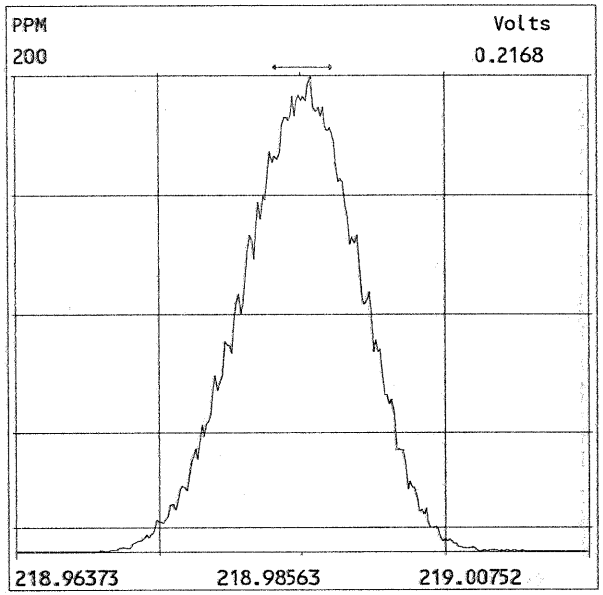


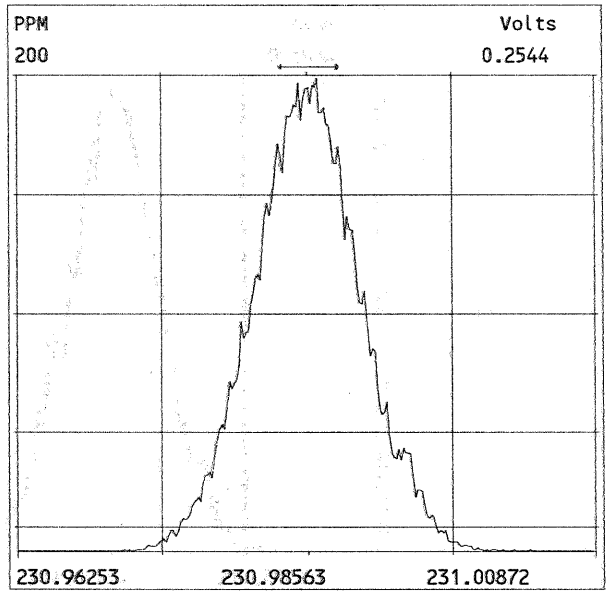


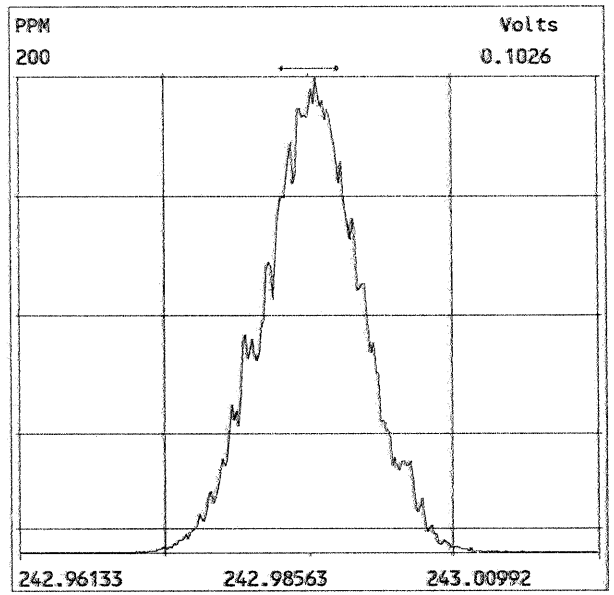


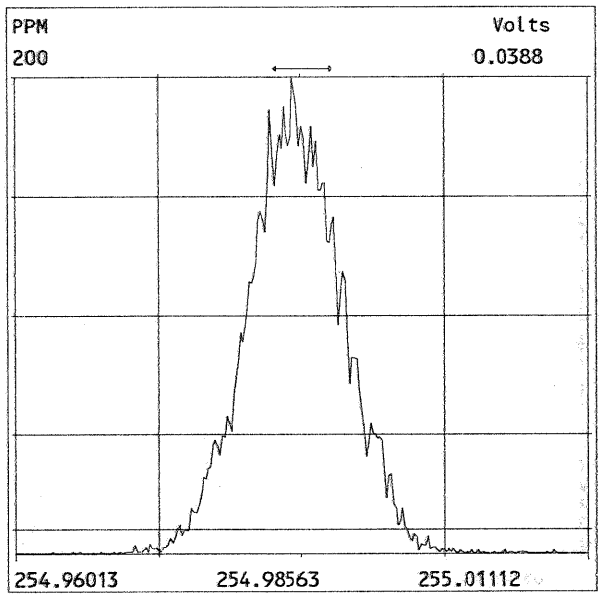


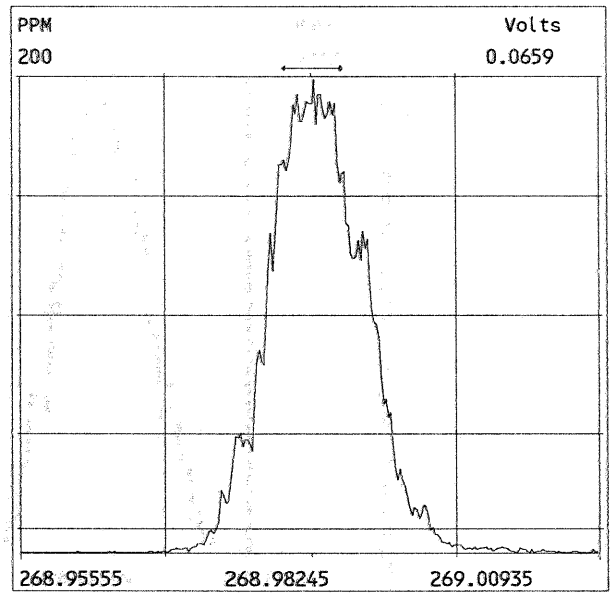
Peak Locate Examination: 1-AUG-2019:04:30 File:31JUL19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

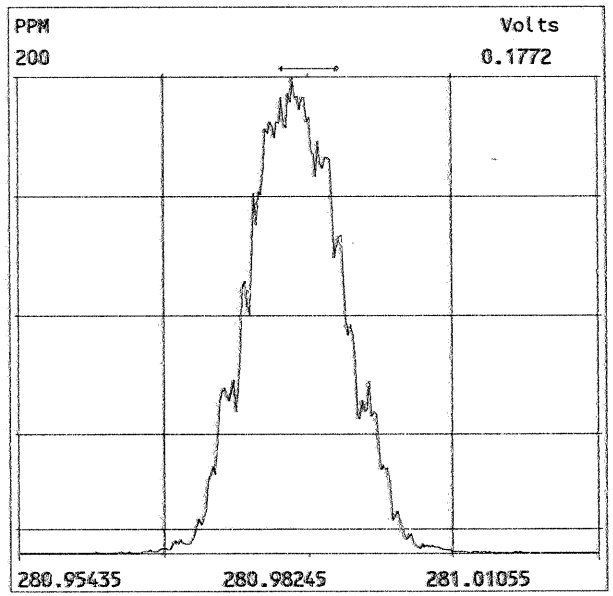




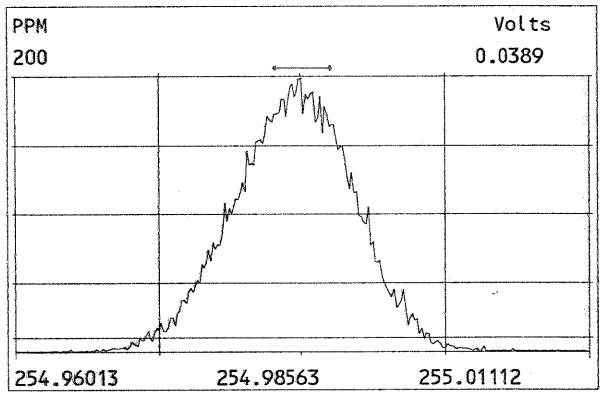


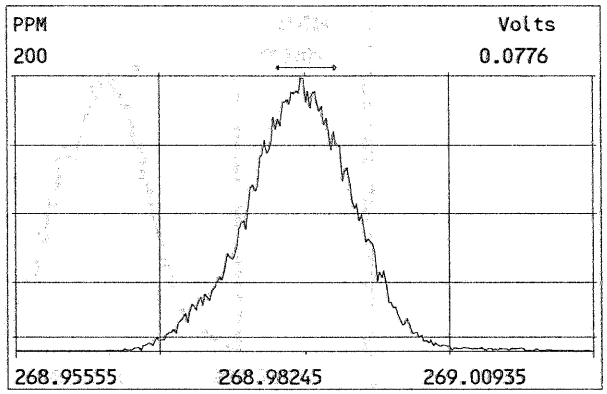


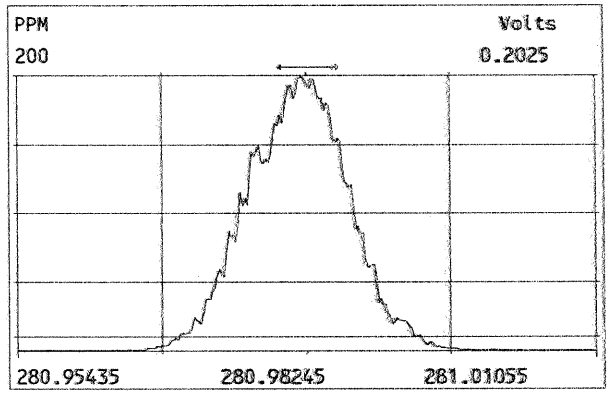


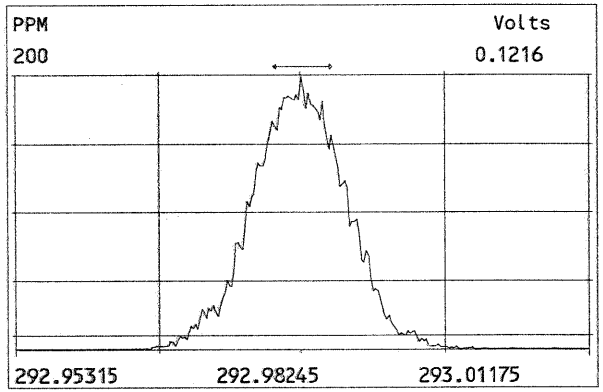


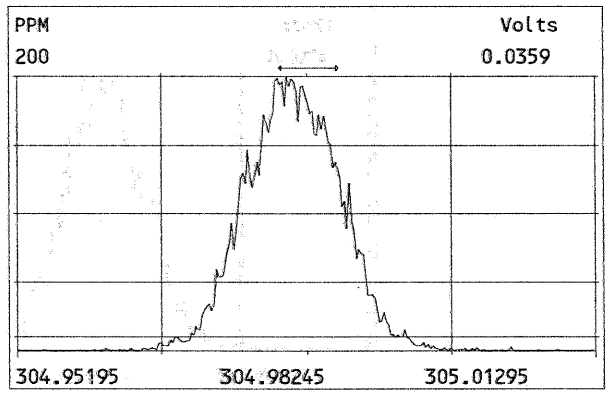
Peak Locate Examination: 1-AUG-2019:04:33 File:31JUL19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

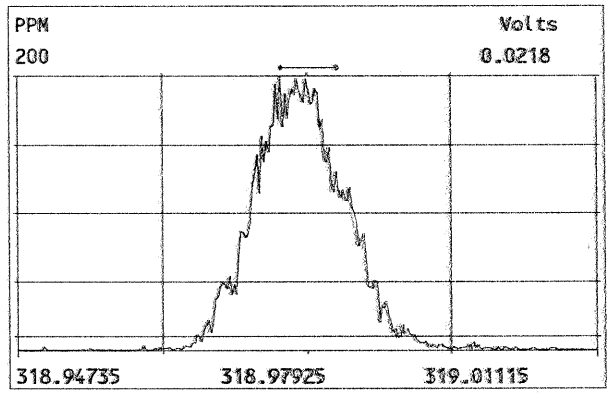


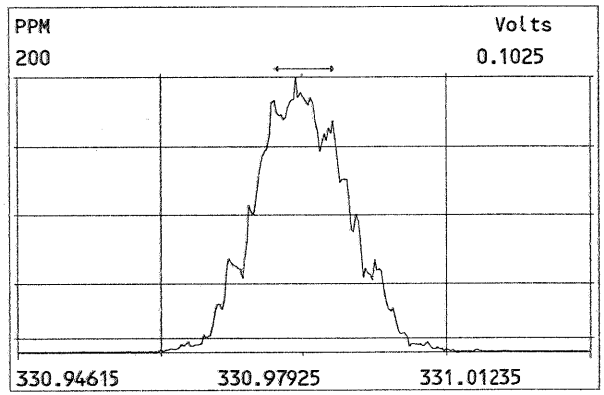


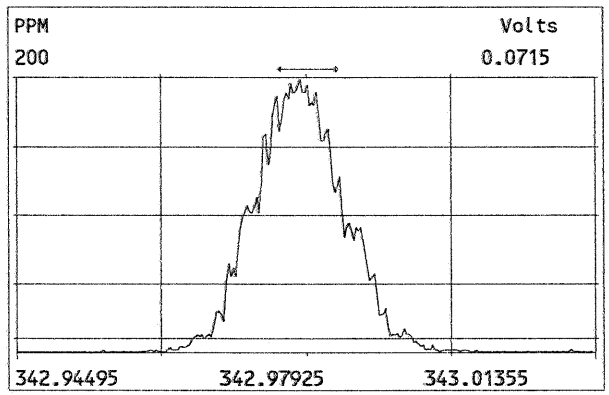




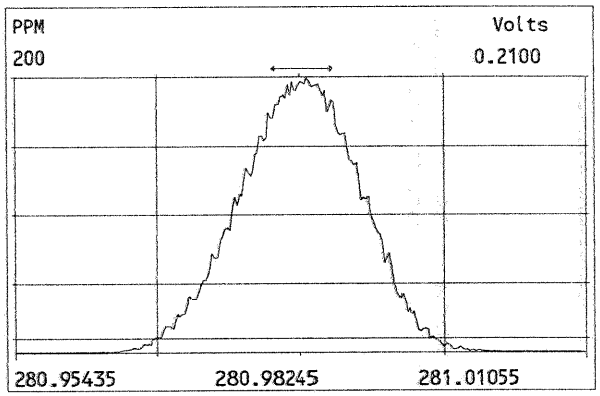


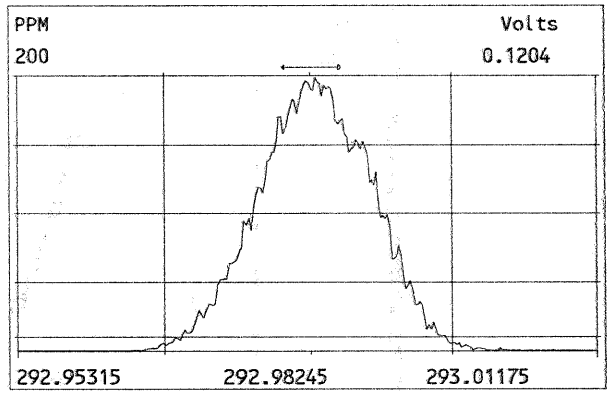


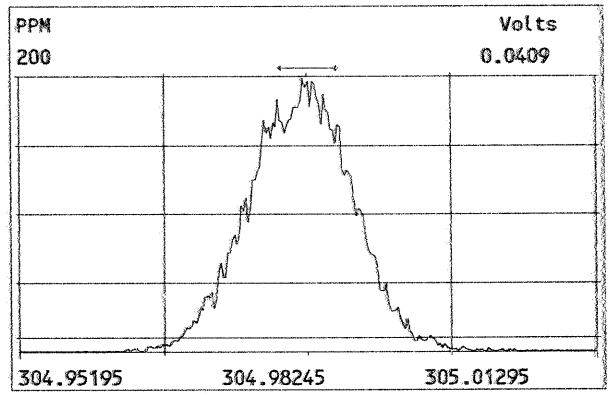


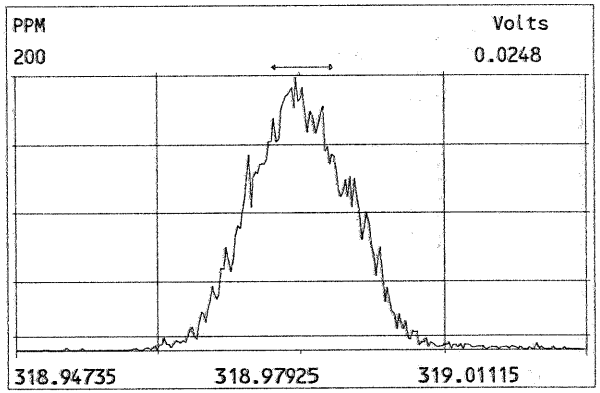


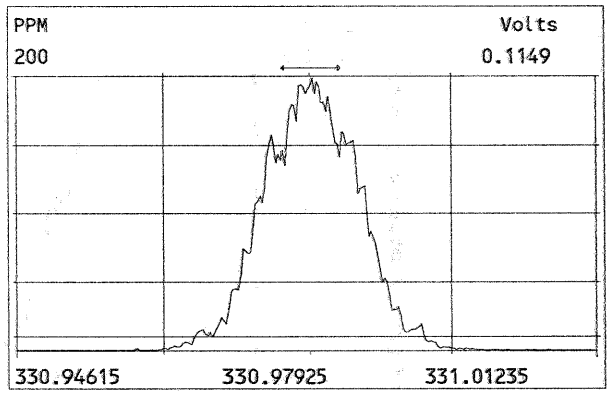
Peak Locate Examination: 1-AUG-2019:04:35 File:31JUL19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

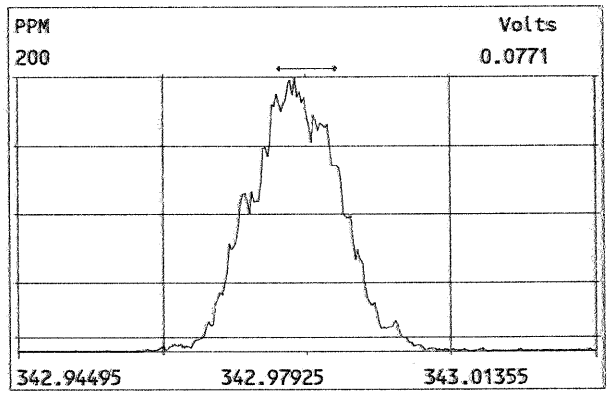


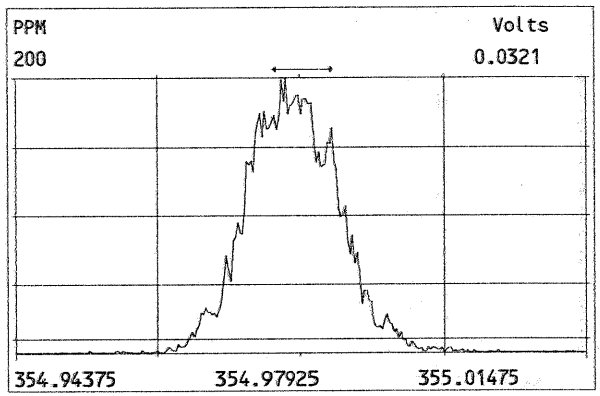


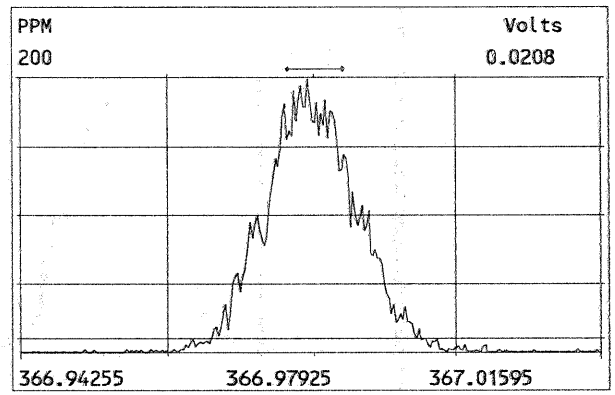


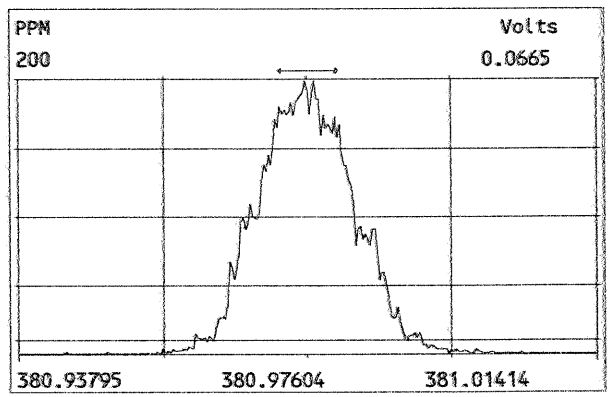




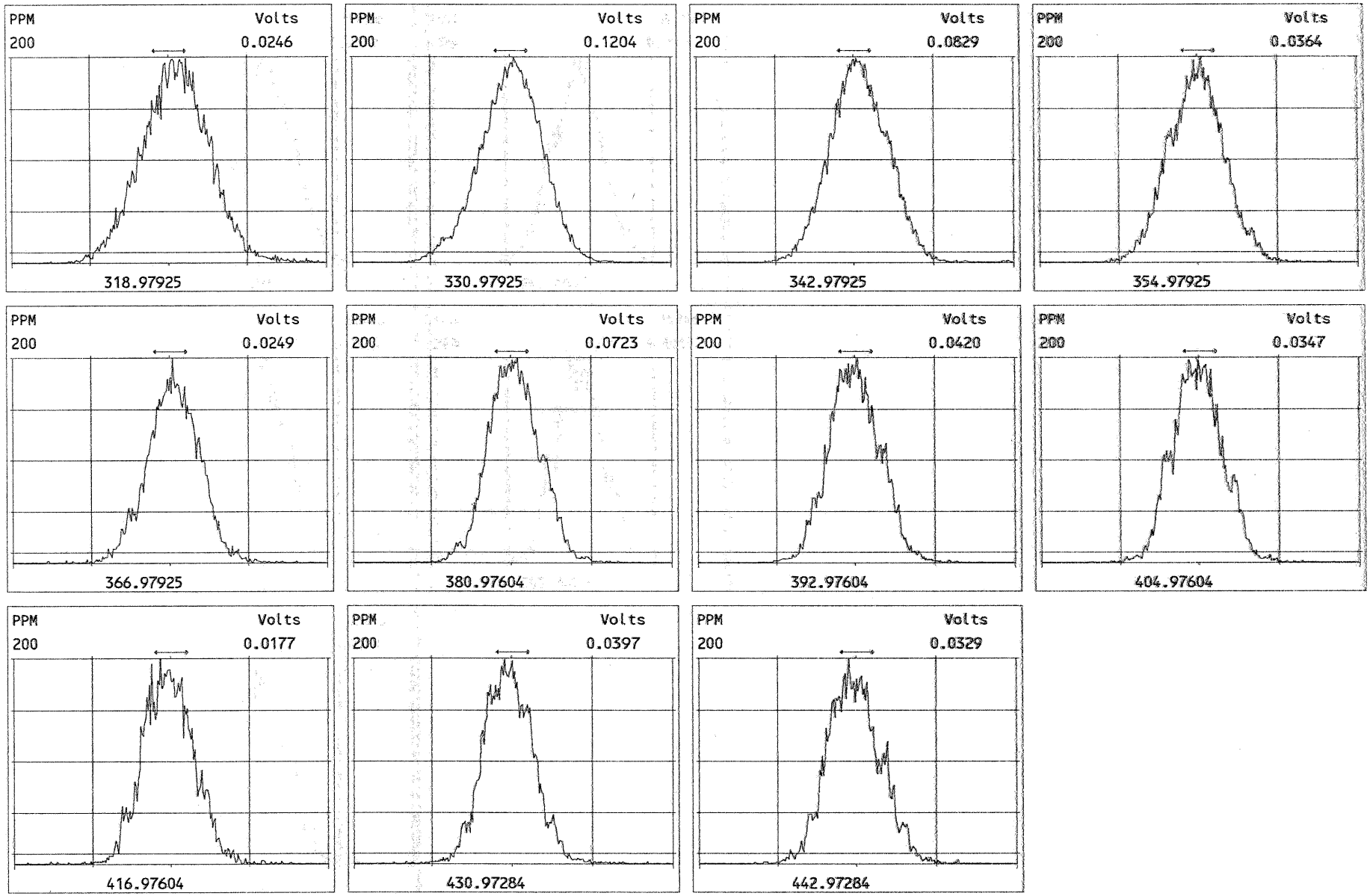




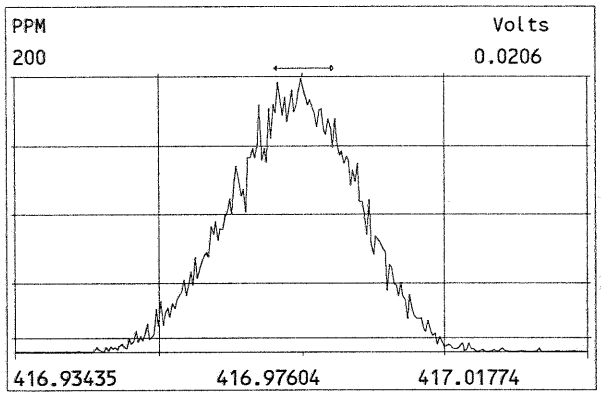


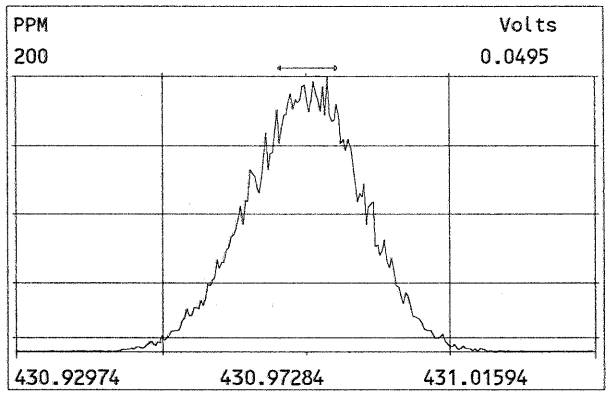


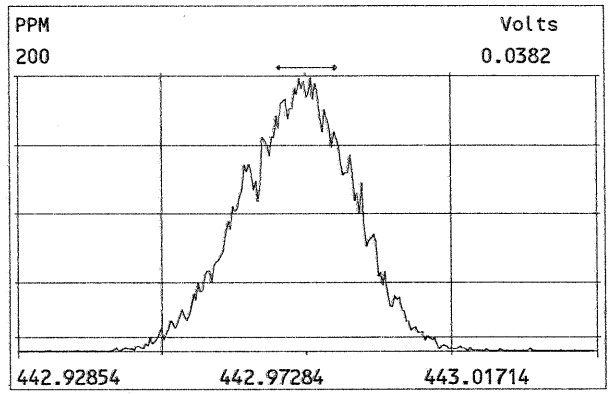
Peak Locate Examination: 1-AUG-2019:04:38 File:31JUL19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

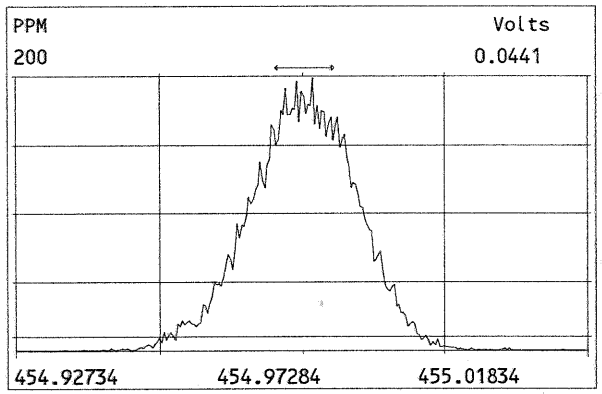


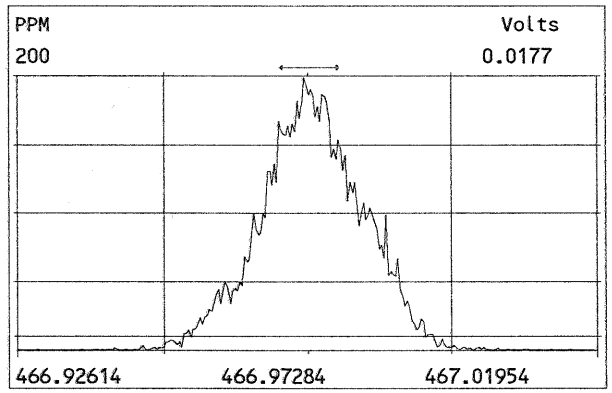
Peak Locate Examination: 1-AUG-2019:04:40 File:31JUL19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

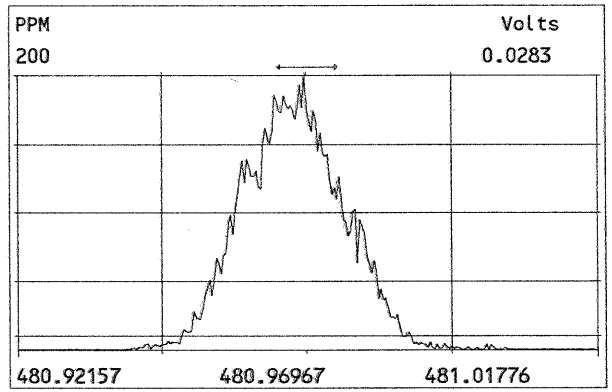


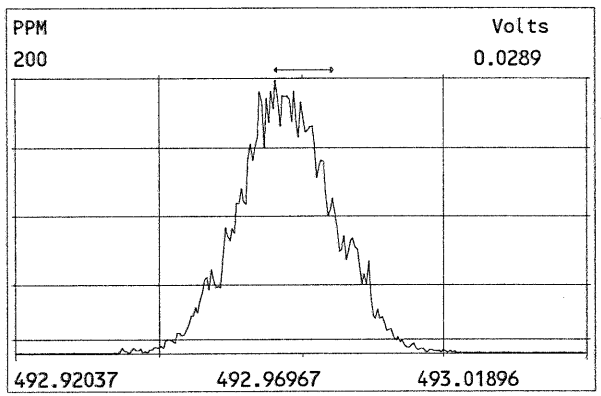


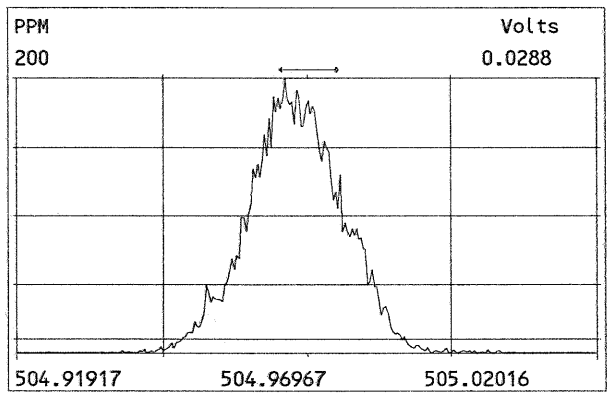


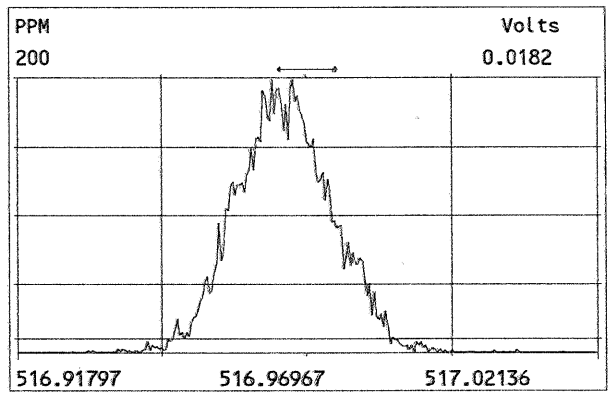












Cal: DAILY209FAL4-7-31-19

Run: 31JUL19Z Analyte: Results: Version: V3.6 21-MAY-2002 15:28:22

Data Filename:31JUL19Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.2024	-	1.20	
13C-PCB-1	0.9364	-	0.94	
PCB-2	1.1929	-	1.19	
PCB-3	1.2227	-	1.22	
13C-PCB-3	0.8793	-	0.88	
PCB-4	1.1575	-	1.16	
PCB-10	1.4126	-	1.41	
13C-PCB-4	0.6715	-	0.67	
PCB-9	1.4445	*	1.44	
PCB-7	1.4268	-	1.43	
PCB-6	1.4917	-	1.49	
PCB-8	1.3564	-	1.36	
PCB-5	1.4528	-	1.45	
PCB-14	1.3638	-	1.36	
PCB-11	1.2439	-	1.24	
PCB-13	1.2448	-	1.24	
PCB-12	1.2824	-	1.28	
PCB-15	1.1569	-	1.16	
13C-PCB-15	0.9138	-	0.91	
PCB-19	1.1631	-	1.16	
PCB-30	1.6989	-	1.70	
PCB-18	1.1229	-	1.12	
PCB-17	1.2669	-	1.27	
PCB-27	1.6171	-	1.62	
PCB-24	1.6793	-	1.68	
PCB-16	1.3777	-	1.38	
PCB-32	1.4634	-	1.46	
13C-PCB-19	0.4925	-	0.49	
13C-PCB-9	-	-	-	
PCB-34	1.2298	-	1.23	
PCB-23	1.3905	-	1.39	
PCB-29	1.3312	-	1.33	
PCB-26	1.2576	-	1.26	
PCB-25	1.2550	-	1.26	
PCB-31	1.1890	-	1.19	
PCB-28	1.5955	-	1.60	
PCB-20	1.2454	-	1.25	Co-elute PCB 21/33
PCB-21	1.2454	-	1.25	Co-elute PCB 20/33
PCB-33	1.2454	-	1.25	Co-elute PCB 20/21
PCB-22	1.3970	-	1.40	
PCB-36	1.2401	-	1.24	
PCB-39	1.2507	-	1.25	
PCB-38	1.2658	-	1.27	
PCB-35	1.1400	-	1.14	
PCB-37	1.2066	-	1.21	
13C-PCB-37	1.5107	-	1.51	

PCB-54	1.2421	-	1.24	
PCB-50	0.9336	-	0.93	
PCB-53	0.9021	-	0.90	
PCB-51	0.9630	-	0.96	
PCB-45	0.7866	-	0.79	
PCB-46	0.7429	-	0.74	
PCB-52	0.9248	-	0.92	Co-elute PCB 69
PCB-69	0.9248	-	0.92	Co-elute PCB 52
PCB-73	1.1329	-	1.13	
PCB-43	0.8153	-	0.82	Co-elute PCB 49
PCB-49	0.8153	-	0.82	Co-elute PCB 43
PCB-47	0.8125	-	0.81	
PCB-48	1.0730	-	1.07	Co-elute PCB 75
PCB-75	1.0730	-	1.07	Co-elute PCB 48
PCB-65	1.0465	-	1.05	
PCB-62	1.0567	-	1.06	
PCB-44	0.6926	-	0.69	
PCB-42	0.9000	-	0.90	Co-elute PCB 59
PCB-59	0.9000	-	0.90	Co-elute PCB 42
PCB-72	1.0194	-	1.02	Co-elute PCB 41/71/64
PCB-41	1.0194	-	1.02	Co-elute PCB 72/71/64
PCB-71	1.0194	-	1.02	Co-elute PCB 72/41/64
PCB-64	1.0194	-	1.02	Co-elute PCB 72/41/71
PCB-68	1.1689	-	1.17	
PCB-40	0.6543	-	0.65	
PCB-57	1.0749	-	1.07	
PCB-67	1.0252	-	1.03	
PCB-58	1.1449	-	1.14	
PCB-63	1.0709	-	1.07	
PCB-74	1.0573	-	1.06	
PCB-61	1.0007	-	1.00	Co-elute PCB 70
PCB-70	1.0007	-	1.00	Co-elute PCB 61
PCB-76	1.1133	-	1.11	Co-elute PCB 66
PCB-66	1.1133	-	1.11	Co-elute PCB 76
PCB-80	1.2948	-	1.29	
PCB-55	1.1300	-	1.13	
13C-PCB-54	1.3420	-	1.34	
PCB-104	1.0939	-	1.09	
PCB-96	1.0471	-	1.05	
PCB-103	0.8363	-	0.84	
PCB-100	0.8503	-	0.85	
PCB-94	0.6962	-	0.70	
PCB-98	0.6995	-	0.70	Co-elute PCB 102
PCB-102	0.6995	-	0.70	Co-elute PCB 98
PCB-95	0.7682	*	0.77	
PCB-93	0.7618	-	0.76	
PCB-88	0.7845	-	0.78	Co-elute PCB 91
PCB-91	0.7845	-	0.78	Co-elute PCB 88
PCB-121	0.9665	-	0.97	
13C-PCB-104	1.0812	-	1.08	
13C-PCB-28	1.8026	-	1.80	
13C-PCB-52	-	-	-	

PCB-56	1.1517	-	1.15	Co-elute PCB 60
PCB-60	1.1517	-	1.15	Co-elute PCB 56
PCB-79	1.2232	-	1.22	
PCB-78	1.1903	-	1.19	
PCB-81	1.2479	-	1.25	
13C-PCB-81	1.4928	-	1.49	
PCB-77	1.0830	-	1.08	
13C-PCB-77	1.5670	-	1.57	
PCB-155	1.0378	-	1.04	
PCB-150	0.9759	-	0.98	
PCB-152	0.9479	-	0.95	
PCB-145	0.9733	-	0.97	
PCB-136	0.9484	-	0.95	
PCB-148	0.6951	-	0.70	
PCB-154	0.8072	-	0.81	
13C-PCB-155	1.3666	-	1.37	
13C-PCB-111	1.2127	-	1.21	
13C-PCB-101	-	-	-	
PCB-84	0.7666	-	0.77	Co-elute PCB 92
PCB-92	0.7666	-	0.77	Co-elute PCB 84
PCB-89	0.7590	-	0.76	
PCB-90	0.8187	-	0.82	Co-elute PCB 101
PCB-101	0.8187	-	0.82	Co-elute PCB 90
PCB-113	0.9173	-	0.92	
PCB-99	0.9077	-	0.91	
PCB-119	1.0090	-	1.01	
PCB-83	0.8246	*	0.82	Co-elute PCB 112
PCB-112	0.8246	*	0.82	Co-elute PCB 83
PCB-109	0.9968	-	1.00	
PCB-97	0.6878	-	0.69	
PCB-86	0.7160	-	0.72	
PCB-125	0.8988	-	0.90	Co-elute PCB 87/117
PCB-87	0.8988	-	0.90	Co-elute PCB 125/117
PCB-117	0.8988	-	0.90	Co-elute PCB 125/87
PCB-111	1.0138	-	1.01	Co-elute PCB 115
PCB-115	1.0138	-	1.01	Co-elute PCB 111
PCB-85	0.9061	-	0.91	Co-elute PCB 116
PCB-116	0.9061	-	0.91	Co-elute PCB 85
PCB-120	1.0446	-	1.04	
PCB-110	1.0256	-	1.03	
PCB-82	0.6049	-	0.60	
PCB-124	1.2085	*	1.21	
PCB-108	1.1416	-	1.14	Co-elute PCB 107
PCB-107	1.1416	-	1.14	Co-elute PCB 108
PCB-123	1.0430	-	1.04	
13C-PCB-123	1.2764	-	1.28	
PCB-118	1.1044	-	1.10	Co-elute PCB 106
PCB-106	1.1044	-	1.10	Co-elute PCB 118
13C-PCB-118	1.3923	-	1.39	
PCB-114	1.2324	-	1.23	
13C-PCB-114	1.3098	-	1.31	
PCB-122	1.1205	-	1.12	
PCB-105	1.1897	-	1.19	
13C-PCB-105	1.3227	-	1.32	
PCB-127	1.0863	-	1.09	
PCB-126	1.1173	-	1.12	
13C-PCB-126	1.2506	-	1.25	

PCB-151	0.9120	-	0.91	
PCB-135	0.8579	-	0.86	
PCB-144	1.0930	-	1.09	
PCB-147	1.0115	-	1.01	
PCB-139	1.0429	-	1.04	Co-elute PCB 149
PCB-149	1.0429	-	1.04	Co-elute PCB 139
PCB-140	1.0343	-	1.03	
PCB-143	0.8396	-	0.84	Co-elute PCB 134
PCB-134	0.8396	-	0.84	Co-elute PCB 143
PCB-131	0.8490	-	0.85	Co-elute PCB 133
PCB-133	0.8490	-	0.85	Co-elute PCB 131
PCB-142	0.8506	-	0.85	
PCB-165	1.1223	-	1.12	Co-elute PCB 146
PCB-146	1.1223	-	1.12	Co-elute PCB 165
PCB-161	1.0396	-	1.04	Co-elute PCB 132
PCB-132	1.0396	-	1.04	Co-elute PCB 161
PCB-153	1.1636	-	1.16	
PCB-168	1.2469	-	1.25	
PCB-141	0.9394	-	0.94	
PCB-137	0.8603	-	0.86	
PCB-130	0.8974	-	0.90	
PCB-138	1.1287	-	1.13	Co-elute PCB 163/164
PCB-163	1.1287	-	1.13	Co-elute PCB 138/164
PCB-164	1.1287	-	1.13	Co-elute PCB 138/163
PCB-158	1.2469	-	1.25	Co-elute PCB 160
PCB-160	1.2469	-	1.25	Co-elute PCB 158
PCB-129	0.8072	-	0.81	
PCB-166	1.1837	-	1.18	
PCB-159	1.2700	-	1.27	
PCB-128	1.0454	-	1.05	Co-elute PCB 162
PCB-162	1.0454	-	1.05	Co-elute PCB 128
PCB-167	1.1464	-	1.15	
13C-PCB-167	1.1383	-	1.14	
PCB-156	1.2092	-	1.21	
13C-PCB-156	1.1223	-	1.12	
PCB-157	1.1651	-	1.17	
13C-PCB-157	1.1521	-	1.15	
PCB-169	1.0986	-	1.10	
13C-PCB-169	1.0740	-	1.07	
PCB-188	1.0494	-	1.05	
13C-PCB-188	1.1773	-	1.18	

PCB-184	1.2030	-	1.20	
PCB-179	1.1256	-	1.13	
PCB-176	1.0980	-	1.10	
PCB-186	1.1101	-	1.11	
PCB-178	0.7584	-	0.76	
PCB-175	0.7675	-	0.77	
PCB-187	0.8730	-	0.87	Co-elute PCB 182
PCB-182	0.8730	-	0.87	Co-elute PCB 187
PCB-183	0.8589	-	0.86	
PCB-185	0.7734	-	0.77	
PCB-174	0.7888	-	0.79	
PCB-181	0.7806	-	0.78	
PCB-177	0.7024	-	0.70	
PCB-171	0.7700	-	0.77	
PCB-173	0.6847	-	0.68	
PCB-172	0.7169	-	0.72	
PCB-192	0.9688	-	0.97	
PCB-180	0.7475	-	0.75	
PCB-193	1.0504	-	1.05	
PCB-191	0.9925	-	0.99	
PCB-170	0.7140	-	0.71	
PCB-190	0.9592	-	0.96	
PCB-189	0.9970	-	1.00	
13C-PCB-189	1.0083	-	1.01	
PCB-202	1.0167	-	1.02	
PCB-201	1.1033	-	1.10	
PCB-204	1.1115	-	1.11	
PCB-197	1.1459	-	1.15	
PCB-200	1.1115	-	1.11	
PCB-198	0.7761	-	0.78	
PCB-199	0.7439	-	0.74	
PCB-203	0.8320	-	0.83	Co-elute PCB 196
PCB-196	0.8320	-	0.83	Co-elute PCB 203
13C-PCB-202	0.9462	-	0.95	
13C-PCB-178	0.7979	-	0.80	
13C-PCB-138	-	-	-	
PCB-195	0.7797	-	0.78	
PCB-194	0.8564	-	0.86	
PCB-205	1.0868	-	1.09	
13C-PCB-205	1.2901	-	1.29	
PCB-208	1.0527	-	1.05	
13C-PCB-208	1.1546	-	1.15	
PCB-207	1.2330	-	1.23	
PCB-206	1.0837	-	1.08	
13C-PCB-206	0.8793	-	0.88	
PCB-209	1.1319	-	1.13	
13C-PCB-209	1.0802	-	1.08	
13C-PCB-194	-	-	-	

Analyst: _____ Date: 7/31/19

Run #1 Filename 31JUL19Z S: 2 Acquired: 31-JUL-19 13:22:00 Cal: DAILY209FAL4-7-31-19
Client ID: SS073119Z1 Analyte: FAL ID: Daily 209 190408A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	9.53e+07	3.20 y	14:33	-	1.20	
2	IS/RT	13C-PCB-1	100.00	1.59e+08	3.12 y	14:32	-	0.936	
3	Unk	PCB-2	50.00	9.17e+07	3.22 y	16:46	-	1.19	
4	Unk	PCB-3	50.00	9.10e+07	3.26 y	16:59	-	1.22	
5	IS/RT	13C-PCB-3	100.00	1.49e+08	3.23 y	16:58	-	0.879	
6	Unk	PCB-4	50.00	6.58e+07	1.47 y	18:14	-	1.16	
7	Unk	PCB-10	50.00	9.48e+07	1.60 y	18:16	-	1.41	
8	IS/RT	13C-PCB-4	100.00	1.14e+08	1.57 y	18:12	-	0.671	
9	Unk	PCB-9	50.00	9.69e+07	1.53 y	19:55	-	1.44	
10	Unk	PCB-7	50.00	9.57e+07	1.50 y	19:56	-	1.43	
11	Unk	PCB-6	50.00	1.00e+08	1.56 y	20:32	-	1.49	
12	Unk	PCB-8	50.00	9.10e+07	1.60 y	20:54	-	1.36	
13	Unk	PCB-5	50.00	9.75e+07	1.48 y	20:56	-	1.45	
14	Unk	PCB-14	50.00	9.15e+07	1.56 y	21:57	-	1.36	
15	Unk	PCB-11	50.00	8.34e+07	1.53 y	23:05	-	1.24	
16	Unk	PCB-13	50.00	8.35e+07	1.53 y	23:26	-	1.24	
17	Unk	PCB-12	50.00	8.60e+07	1.56 y	23:29	-	1.28	
18	Unk	PCB-15	50.00	8.95e+07	1.43 y	23:45	-	1.16	
19	IS/RT	13C-PCB-15	100.00	1.55e+08	1.58 y	23:44	-	0.914	
20	Unk	PCB-19	50.00	4.85e+07	1.05 y	22:07	-	1.16	
21	Unk	PCB-30	50.00	7.08e+07	1.06 y	22:57	-	1.70	
22	Unk	PCB-18	50.00	4.68e+07	1.07 y	23:39	-	1.12	
23	Unk	PCB-17	50.00	5.28e+07	1.05 y	23:49	-	1.27	
24	Unk	PCB-27	50.00	6.74e+07	1.06 y	24:22	-	1.62	
25	Unk	PCB-24	50.00	7.00e+07	1.07 y	24:23	-	1.68	
26	Unk	PCB-16	50.00	5.74e+07	1.04 y	24:50	-	1.38	
27	Unk	PCB-32	50.00	6.10e+07	1.09 y	24:52	-	1.46	
28	IS/RT	13C-PCB-19	100.00	8.34e+07	1.06 y	22:05	-	0.493	
29	RS	13C-PCB-9	100.00	1.69e+08	1.56 y	19:53	1.69e+06	-	
30	Unk	PCB-34	50.00	7.53e+07	1.03 y	25:36	-	1.23	
31	Unk	PCB-23	50.00	8.52e+07	1.04 y	25:41	-	1.39	
32	Unk	PCB-29	50.00	8.15e+07	1.04 y	25:55	-	1.33	
33	Unk	PCB-26	50.00	7.70e+07	1.05 y	26:08	-	1.26	
34	Unk	PCB-25	50.00	7.69e+07	1.06 y	26:17	-	1.26	
35	Unk	PCB-31	50.00	7.28e+07	1.05 y	26:37	-	1.19	
36	Unk	PCB-28	50.00	9.77e+07	1.05 y	26:43	-	1.60	
37	Unk	PCB-20	150.00	2.29e+08	1.04 y	27:17	-	1.25	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	2.29e+08	1.04 y	27:17	-	1.25	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	2.29e+08	1.04 y	27:17	-	1.25	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	8.56e+07	1.00 y	27:43	-	1.40	
41	Unk	PCB-36	50.00	7.59e+07	1.06 y	28:18	-	1.24	
42	Unk	PCB-39	50.00	7.66e+07	1.04 y	28:45	-	1.25	
43	Unk	PCB-38	50.00	7.75e+07	1.03 y	29:29	-	1.27	
44	Unk	PCB-35	50.00	6.98e+07	1.04 y	29:59	-	1.14	
45	Unk	PCB-37	50.00	7.39e+07	1.01 y	30:23	-	1.21	
46	IS	13C-PCB-37	100.00	1.22e+08	1.09 y	30:22	-	1.51	

47	Unk	PCB-54	100.00	1.35e+08	0.79 y	25:39		-	1.24	
48	Unk	PCB-50	100.00	1.02e+08	0.80 y	26:45		-	0.934	
49	Unk	PCB-53	100.00	9.82e+07	0.80 y	27:21		-	0.902	
50	Unk	PCB-51	100.00	1.05e+08	0.79 y	27:40		-	0.963	
51	Unk	PCB-45	100.00	8.56e+07	0.78 y	28:05		-	0.787	
52	Unk	PCB-46	100.00	8.08e+07	0.79 y	28:33		-	0.743	
53	Unk	PCB-52	200.00	2.01e+08	0.78 y	29:00		-	0.925	Co-elute PCB 69
54	Unk	PCB-69	200.00	2.01e+08	0.78 y	29:00		-	0.925	Co-elute PCB 52
55	Unk	PCB-73	100.00	1.23e+08	0.80 y	29:06		-	1.13	
56	Unk	PCB-43	200.00	1.77e+08	0.80 y	29:16		-	0.815	Co-elute PCB 49
57	Unk	PCB-49	200.00	1.77e+08	0.80 y	29:16		-	0.815	Co-elute PCB 43
58	Unk	PCB-47	100.00	8.84e+07	0.78 y	29:28		-	0.812	
59	Unk	PCB-48	200.00	2.34e+08	0.80 y	29:34		-	1.07	Co-elute PCB 75
60	Unk	PCB-75	200.00	2.34e+08	0.80 y	29:34		-	1.07	Co-elute PCB 48
61	Unk	PCB-65	100.00	1.14e+08	0.78 y	29:50		-	1.05	
62	Unk	PCB-62	100.00	1.15e+08	0.79 y	29:55		-	1.06	
63	Unk	PCB-44	100.00	7.54e+07	0.79 y	30:13		-	0.693	
64	Unk	PCB-42	200.00	1.96e+08	0.79 y	30:26		-	0.900	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.96e+08	0.79 y	30:26		-	0.900	Co-elute PCB 42
66	Unk	PCB-72	400.00	4.44e+08	0.79 y	30:59		-	1.02	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	4.44e+08	0.79 y	30:59		-	1.02	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	4.44e+08	0.79 y	30:59		-	1.02	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	4.44e+08	0.79 y	30:59		-	1.02	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	1.27e+08	0.79 y	31:14		-	1.17	
71	Unk	PCB-40	100.00	7.12e+07	0.78 y	31:26		-	0.654	
72	Unk	PCB-57	100.00	1.17e+08	0.78 y	31:47		-	1.07	
73	Unk	PCB-67	100.00	1.12e+08	0.78 y	32:04		-	1.03	
74	Unk	PCB-58	100.00	1.25e+08	0.80 y	32:11		-	1.14	
75	Unk	PCB-63	100.00	1.17e+08	0.79 y	32:20		-	1.07	
76	Unk	PCB-74	100.00	1.15e+08	0.78 y	32:36		-	1.06	
77	Unk	PCB-61	200.00	2.18e+08	0.79 y	32:47		-	1.00	Co-elute PCB 70
78	Unk	PCB-70	200.00	2.18e+08	0.79 y	32:47		-	1.00	Co-elute PCB 61
79	Unk	PCB-76	200.00	2.42e+08	0.79 y	33:00		-	1.11	Co-elute PCB 66
80	Unk	PCB-66	200.00	2.42e+08	0.79 y	33:00		-	1.11	Co-elute PCB 76
81	Unk	PCB-80	100.00	1.41e+08	0.79 y	33:11		-	1.29	
82	Unk	PCB-55	100.00	1.23e+08	0.80 y	33:30		-	1.13	
83	IS/RT	13C-PCB-54	100.00	1.09e+08	0.81 y	25:38		-	1.34	
84	Unk	PCB-104	100.00	9.59e+07	1.56 y	30:04		-	1.09	
85	Unk	PCB-96	100.00	9.18e+07	1.57 y	31:16		-	1.05	
86	Unk	PCB-103	100.00	7.33e+07	1.57 y	31:47		-	0.836	
87	Unk	PCB-100	100.00	7.45e+07	1.57 y	32:07		-	0.850	
88	Unk	PCB-94	100.00	6.10e+07	1.58 y	32:33		-	0.696	
89	Unk	PCB-98	200.00	1.23e+08	1.60 y	33:00		-	0.700	Co-elute PCB 102
90	Unk	PCB-102	200.00	1.23e+08	1.60 y	33:00		-	0.700	Co-elute PCB 98
91	Unk	PCB-95	100.00	6.73e+07	1.47 y	33:04		-	0.768	
92	Unk	PCB-93	100.00	6.68e+07	1.63 y	33:09		-	0.762	
93	Unk	PCB-88	200.00	1.38e+08	1.57 y	33:27		-	0.784	Co-elute PCB 91
94	Unk	PCB-91	200.00	1.38e+08	1.57 y	33:27		-	0.784	Co-elute PCB 88
95	Unk	PCB-121	100.00	8.47e+07	1.59 y	33:32		-	0.967	
96	IS	13C-PCB-104	100.00	8.77e+07	1.58 y	30:03		-	1.08	
97	C/Up	13C-PCB-28	100.00	1.46e+08	1.04 y	26:42		-	1.80	
98	RS	13C-PCB-52	100.00	8.11e+07	0.81 y	28:57	8.11e+05		-	
99	Unk	PCB-56	200.00	2.48e+08	0.77 y	33:59		-	1.15	Co-elute PCB 60
100	Unk	PCB-60	200.00	2.48e+08	0.77 y	33:59		-	1.15	Co-elute PCB 56

101	Unk	PCB-79	100.00	1.32e+08	0.78 y	34:60	-	1.22	
102	Unk	PCB-78	100.00	1.28e+08	0.78 y	35:39	-	1.19	
103	Unk	PCB-81	100.00	1.31e+08	0.78 y	36:09	-	1.25	
104	IS	13C-PCB-81	100.00	1.05e+08	0.81 y	36:08	-	1.49	
105	Unk	PCB-77	100.00	1.20e+08	0.79 y	36:43	-	1.08	
106	IS/RT	13C-PCB-77	100.00	1.10e+08	0.81 y	36:42	-	1.57	
107	Unk	PCB-155	100.00	9.99e+07	1.26 y	34:14	-	1.04	
108	Unk	PCB-150	100.00	9.40e+07	1.25 y	35:25	-	0.976	
109	Unk	PCB-152	100.00	9.13e+07	1.25 y	35:53	-	0.948	
110	Unk	PCB-145	100.00	9.37e+07	1.25 y	36:18	-	0.973	
111	Unk	PCB-136	100.00	9.13e+07	1.24 y	36:37	-	0.948	
112	Unk	PCB-148	100.00	6.69e+07	1.27 y	36:42	-	0.695	
113	Unk	PCB-154	100.00	7.77e+07	1.26 y	37:10	-	0.807	
114	IS	13C-PCB-155	100.00	9.63e+07	1.27 y	34:12	-	1.37	
115	C/Up	13C-PCB-111	100.00	8.55e+07	1.61 y	36:17	-	1.21	
116	RS	13C-PCB-101	100.00	7.05e+07	1.63 y	34:38	7.05e+05	-	
117	Unk	PCB-84	200.00	1.51e+08	1.60 y	34:19	-	0.767	Co-elute PCB 92
118	Unk	PCB-92	200.00	1.51e+08	1.60 y	34:19	-	0.767	Co-elute PCB 84
119	Unk	PCB-89	100.00	7.48e+07	1.60 y	34:29	-	0.759	
120	Unk	PCB-90	200.00	1.61e+08	1.59 y	34:40	-	0.819	Co-elute PCB 101
121	Unk	PCB-101	200.00	1.61e+08	1.59 y	34:40	-	0.819	Co-elute PCB 90
122	Unk	PCB-113	100.00	9.04e+07	1.60 y	34:54	-	0.917	
123	Unk	PCB-99	100.00	8.95e+07	1.61 y	34:59	-	0.908	
124	Unk	PCB-119	100.00	9.94e+07	1.59 y	35:25	-	1.01	
125	Unk	PCB-83	200.00	1.63e+08	1.60 y	35:34	-	0.825	Co-elute PCB 112
126	Unk	PCB-112	200.00	1.63e+08	1.60 y	35:34	-	0.825	Co-elute PCB 83
127	Unk	PCB-109	100.00	9.82e+07	1.60 y	35:44	-	0.997	
128	Unk	PCB-97	100.00	6.78e+07	1.58 y	35:54	-	0.688	
129	Unk	PCB-86	100.00	7.06e+07	1.58 y	36:03	-	0.716	
130	Unk	PCB-125	300.00	2.66e+08	1.59 y	36:11	-	0.899	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	2.66e+08	1.59 y	36:11	-	0.899	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	2.66e+08	1.59 y	36:11	-	0.899	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	2.00e+08	1.58 y	36:18	-	1.01	Co-elute PCB 115
134	Unk	PCB-115	200.00	2.00e+08	1.58 y	36:18	-	1.01	Co-elute PCB 111
135	Unk	PCB-85	200.00	1.79e+08	1.61 y	36:27	-	0.906	Co-elute PCB 116
136	Unk	PCB-116	200.00	1.79e+08	1.61 y	36:27	-	0.906	Co-elute PCB 85
137	Unk	PCB-120	100.00	1.03e+08	1.58 y	36:40	-	1.04	
138	Unk	PCB-110	100.00	1.01e+08	1.61 y	36:47	-	1.03	
139	Unk	PCB-82	100.00	5.96e+07	1.58 y	37:24	-	0.605	
140	Unk	PCB-124	100.00	1.19e+08	1.53 y	38:02	-	1.21	
141	Unk	PCB-108	200.00	2.25e+08	1.57 y	38:10	-	1.14	Co-elute PCB 107
142	Unk	PCB-107	200.00	2.25e+08	1.57 y	38:10	-	1.14	Co-elute PCB 108
143	Unk	PCB-123	100.00	9.90e+07	1.58 y	38:20	-	1.04	
144	IS	13C-PCB-123	100.00	9.49e+07	1.59 y	38:20	-	1.28	
145	Unk	PCB-118	200.00	2.29e+08	1.57 y	38:33	-	1.10	Co-elute PCB 106
146	Unk	PCB-106	200.00	2.29e+08	1.57 y	38:33	-	1.10	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	1.04e+08	1.58 y	38:30	-	1.39	
148	Unk	PCB-114	100.00	1.20e+08	1.56 y	39:08	-	1.23	
149	IS	13C-PCB-114	100.00	9.74e+07	1.61 y	39:08	-	1.31	
150	Unk	PCB-122	100.00	1.10e+08	1.59 y	39:16	-	1.12	
151	Unk	PCB-105	100.00	1.17e+08	1.56 y	39:57	-	1.19	
152	IS	13C-PCB-105	100.00	9.84e+07	1.60 y	39:55	-	1.32	
153	Unk	PCB-127	100.00	1.07e+08	1.58 y	40:17	-	1.09	
154	Unk	PCB-126	100.00	1.04e+08	1.56 y	42:04	-	1.12	
155	IS	13C-PCB-126	100.00	9.30e+07	1.58 y	42:04	-	1.25	

156	Unk	PCB-151	100.00	7.61e+07	1.25 y	37:47	-	0.912	
157	Unk	PCB-135	100.00	7.16e+07	1.26 y	37:59	-	0.858	
158	Unk	PCB-144	100.00	9.12e+07	1.26 y	38:05	-	1.09	
159	Unk	PCB-147	100.00	8.44e+07	1.27 y	38:13	-	1.01	
160	Unk	PCB-139	200.00	1.74e+08	1.28 y	38:28	-	1.04	Co-elute PCB 149
161	Unk	PCB-149	200.00	1.74e+08	1.28 y	38:28	-	1.04	Co-elute PCB 139
162	Unk	PCB-140	100.00	8.63e+07	1.24 y	38:38	-	1.03	
163	Unk	PCB-143	200.00	1.40e+08	1.26 y	39:03	-	0.840	Co-elute PCB 134
164	Unk	PCB-134	200.00	1.40e+08	1.26 y	39:03	-	0.840	Co-elute PCB 143
165	Unk	PCB-131	200.00	1.42e+08	1.26 y	39:19	-	0.849	Co-elute PCB 133
166	Unk	PCB-133	200.00	1.42e+08	1.26 y	39:19	-	0.849	Co-elute PCB 131
167	Unk	PCB-142	100.00	7.10e+07	1.25 y	39:29	-	0.851	
168	Unk	PCB-165	200.00	1.87e+08	1.27 y	39:41	-	1.12	Co-elute PCB 146
169	Unk	PCB-146	200.00	1.87e+08	1.27 y	39:41	-	1.12	Co-elute PCB 165
170	Unk	PCB-161	200.00	1.73e+08	1.26 y	39:54	-	1.04	Co-elute PCB 132
171	Unk	PCB-132	200.00	1.73e+08	1.26 y	39:54	-	1.04	Co-elute PCB 161
172	Unk	PCB-153	100.00	9.71e+07	1.29 y	40:05	-	1.16	
173	Unk	PCB-168	100.00	1.04e+08	1.25 y	40:17	-	1.25	
174	Unk	PCB-141	100.00	7.84e+07	1.26 y	40:46	-	0.939	
175	Unk	PCB-137	100.00	7.18e+07	1.26 y	41:10	-	0.860	
176	Unk	PCB-130	100.00	7.49e+07	1.28 y	41:14	-	0.897	
177	Unk	PCB-138	300.00	2.82e+08	1.26 y	41:36	-	1.13	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	2.82e+08	1.26 y	41:36	-	1.13	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	2.82e+08	1.26 y	41:36	-	1.13	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	2.08e+08	1.27 y	41:49	-	1.25	Co-elute PCB 160
181	Unk	PCB-160	200.00	2.08e+08	1.27 y	41:49	-	1.25	Co-elute PCB 158
182	Unk	PCB-129	100.00	6.73e+07	1.26 y	42:04	-	0.807	
183	Unk	PCB-166	100.00	9.87e+07	1.26 y	42:30	-	1.18	
184	Unk	PCB-159	100.00	1.06e+08	1.25 y	42:48	-	1.27	
185	Unk	PCB-128	200.00	1.74e+08	1.26 y	43:05	-	1.05	Co-elute PCB 162
186	Unk	PCB-162	200.00	1.74e+08	1.26 y	43:05	-	1.05	Co-elute PCB 128
187	Unk	PCB-167	100.00	9.70e+07	1.26 y	43:26	-	1.15	
188	IS	13C-PCB-167	100.00	8.46e+07	1.28 y	43:25	-	1.14	
189	Unk	PCB-156	100.00	1.01e+08	1.25 y	44:40	-	1.21	
190	IS	13C-PCB-156	100.00	8.35e+07	1.29 y	44:39	-	1.12	
191	Unk	PCB-157	100.00	9.98e+07	1.26 y	44:55	-	1.17	
192	IS	13C-PCB-157	100.00	8.57e+07	1.29 y	44:53	-	1.15	
193	Unk	PCB-169	100.00	8.77e+07	1.26 y	46:47	-	1.10	
194	IS	13C-PCB-169	100.00	7.99e+07	1.30 y	46:45	-	1.07	
195	Unk	PCB-188	100.00	9.19e+07	1.05 y	39:44	-	1.05	
196	IS	13C-PCB-188	100.00	8.75e+07	1.05 y	39:42	-	1.18	

197	Unk	PCB-184	100.00	9.78e+07	1.04 y	40:09	-	1.20	
198	Unk	PCB-179	100.00	9.15e+07	1.05 y	40:53	-	1.13	
199	Unk	PCB-176	100.00	8.92e+07	1.05 y	41:19	-	1.10	
200	Unk	PCB-186	100.00	9.02e+07	1.05 y	41:54	-	1.11	
201	Unk	PCB-178	100.00	6.16e+07	1.05 y	42:22	-	0.758	
202	Unk	PCB-175	100.00	6.24e+07	1.04 y	42:42	-	0.768	
203	Unk	PCB-187	200.00	1.42e+08	1.05 y	42:52	-	0.873	Co-elute PCB 182
204	Unk	PCB-182	200.00	1.42e+08	1.05 y	42:52	-	0.873	Co-elute PCB 187
205	Unk	PCB-183	100.00	6.98e+07	1.05 y	43:10	-	0.859	
206	Unk	PCB-185	100.00	6.29e+07	1.05 y	43:48	-	0.773	
207	Unk	PCB-174	100.00	6.41e+07	1.04 y	44:07	-	0.789	
208	Unk	PCB-181	100.00	6.34e+07	1.03 y	44:14	-	0.781	
209	Unk	PCB-177	100.00	5.71e+07	1.04 y	44:24	-	0.702	
210	Unk	PCB-171	100.00	6.26e+07	1.04 y	44:40	-	0.770	
211	Unk	PCB-173	100.00	5.56e+07	1.03 y	45:03	-	0.685	
212	Unk	PCB-172	100.00	5.83e+07	1.04 y	45:28	-	0.717	
213	Unk	PCB-192	100.00	7.87e+07	1.04 y	45:38	-	0.969	
214	Unk	PCB-180	100.00	6.07e+07	1.05 y	45:48	-	0.748	
215	Unk	PCB-193	100.00	8.54e+07	1.04 y	45:58	-	1.05	
216	Unk	PCB-191	100.00	8.07e+07	1.04 y	46:11	-	0.993	
217	Unk	PCB-170	100.00	5.80e+07	1.05 y	47:05	-	0.714	
218	Unk	PCB-190	100.00	7.79e+07	1.03 y	47:15	-	0.959	
219	Unk	PCB-189	100.00	7.48e+07	1.05 y	48:26	-	0.997	
220	IS	13C-PCB-189	100.00	7.50e+07	1.05 y	48:26	-	1.01	
221	Unk	PCB-202	150.00	1.07e+08	0.90 y	44:50	-	1.02	
222	Unk	PCB-201	150.00	1.16e+08	0.89 y	45:16	-	1.10	
223	Unk	PCB-204	150.00	1.17e+08	0.89 y	45:25	-	1.11	
224	Unk	PCB-197	150.00	1.21e+08	0.90 y	45:41	-	1.15	
225	Unk	PCB-200	150.00	1.17e+08	0.89 y	46:26	-	1.11	
226	Unk	PCB-198	150.00	8.19e+07	0.88 y	47:36	-	0.776	
227	Unk	PCB-199	150.00	7.85e+07	0.89 y	47:41	-	0.744	
228	Unk	PCB-203	300.00	1.76e+08	0.90 y	47:56	-	0.832	Co-elute PCB 196
229	Unk	PCB-196	300.00	1.76e+08	0.90 y	47:56	-	0.832	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	7.04e+07	0.90 y	44:48	-	0.946	
231	C/Up	13C-PCB-178	100.00	5.93e+07	1.06 y	42:20	-	0.798	
232	RS	13C-PCB-138	100.00	7.44e+07	1.30 y	41:34	7.44e+05	-	
233	Unk	PCB-195	150.00	1.08e+08	0.88 y	49:03	-	0.780	
234	Unk	PCB-194	150.00	1.19e+08	0.89 y	49:51	-	0.856	
235	Unk	PCB-205	150.00	1.51e+08	0.90 y	50:06	-	1.09	
236	IS	13C-PCB-205	100.00	9.26e+07	0.89 y	50:05	-	1.29	
237	Unk	PCB-208	150.00	1.31e+08	1.37 y	49:10	-	1.05	
238	IS	13C-PCB-208	100.00	8.29e+07	0.81 y	49:10	-	1.15	
239	Unk	PCB-207	150.00	1.35e+08	1.34 y	49:28	-	1.23	
240	Unk	PCB-206	150.00	1.03e+08	1.35 y	51:18	-	1.08	
241	IS	13C-PCB-206	100.00	6.31e+07	0.80 y	51:17	-	0.879	
242	Unk	PCB-209	150.00	1.32e+08	1.20 y	52:30	-	1.13	
243	IS	13C-PCB-209	100.00	7.75e+07	1.20 y	52:29	-	1.08	
244	RS	13C-PCB-194	100.00	7.18e+07	0.90 y	49:49	7.18e+05	-	

Analyst: [signature] Date: 7/31/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/31/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JUL19Z Sam:1 Analysis Date: 31-JUL-19 12:23:40

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.17	2.66-3.60	y	49.8	37.5 - 62.5
PCB-3	M/M+2	3.21	2.66-3.60	y	48.7	37.5 - 62.5
PCB-4	M/M+2	1.54	1.33-1.79	y	46.3	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	45.8	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	52.2	37.5 - 62.5
PCB-37	M/M+2	1.06	0.88-1.20	y	45.9	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	50.0	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	49.5	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	45.1	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	49.1	37.5 - 62.5
PCB-105	M+2/M+4	1.56	1.32-1.78	y	43.5	37.5 - 62.5
PCB-114	M+2/M+4	1.57	1.32-1.78	y	43.6	37.5 - 62.5
PCB-118	M+2/M+4	1.57	1.32-1.78	y	48.5	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	50.9	37.5 - 62.5
PCB-126	M+2/M+4	1.56	1.32-1.78	y	46.6	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	50.1	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	46.4	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	45.9	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	48.6	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	50.3	37.5 - 62.5
PCB-188	M+2/M+4	1.04	0.89-1.21	y	50.1	37.5 - 62.5
PCB-189	M+2/M+4	1.03	0.89-1.21	y	50.5	37.5 - 62.5
PCB-202	M+2/M+4	0.88	0.76-1.02	y	49.6	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	50.4	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	49.0	37.5 - 62.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	48.7	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	50.0	37.5 - 62.5

Analyst: _____ Date: 7/31/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/31/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JUL19Z Sam:1 Analysis Date: 31-JUL-19 12:23:40

	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	102	50.0 - 145
13C-PCB-3	M/M+2	3.26	2.66-3.60	y	105	50.0 - 145
13C-PCB-4	M/M+2	1.59	1.33-1.79	y	103	50.0 - 145
13C-PCB-15	M/M+2	1.63	1.33-1.79	y	101	50.0 - 145
13C-PCB-19	M/M+2	1.02	0.88-1.20	y	95.2	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	99.5	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	94.5	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	89.9	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	93.4	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	101	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	105	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	106	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	107	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	108	50.0 - 145
13C-PCB-126	M+2/M+4	1.61	1.32-1.78	y	101	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	100	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	104	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	105	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	107	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	99.1	50.0 - 145
13C-PCB-188	M+2/M+4	1.05	0.89-1.21	y	109	50.0 - 145
13C-PCB-189	M+2/M+4	1.04	0.89-1.21	y	104	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	122	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	0.81	0.65-0.89	y	106	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	119	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	106	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	92.4	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	104	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	107	75.0 - 125

Analyst: [signature] Date: 7/31/19

FAL ID: ST073119Z1 Filename: 31JUL19Z Sam:1 Acquired: 31-JUL-19 12:23:40 ICal: DAILY209FAL4-7-31-19
Client ID: 1668 CS3 R181204D ConCal: ST073119Z1 EndCal: ST073119Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	7.76e+07	3.17 y	14:34	1.20	49.8		2.50	-	-	*	
13C-PCB-1	1.30e+08	3.17 y	14:33	0.94	102		2.50				102
PCB-3	7.42e+07	3.21 y	16:60	1.22	48.7		2.50	-	-	*	
13C-PCB-3	1.24e+08	3.26 y	16:59	0.88	105		2.50				105
PCB-4	5.04e+07	1.54 y	18:15	1.16	46.3		2.50	-	-	*	
13C-PCB-4	9.40e+07	1.59 y	18:13	0.67	103		2.50				103
PCB-15	6.65e+07	1.55 y	23:46	1.16	45.8		2.50	-	-	*	
13C-PCB-15	1.25e+08	1.63 y	23:45	0.91	101		2.50				101
PCB-19	3.85e+07	1.07 y	22:08	1.16	52.2		2.50	-	-	*	
13C-PCB-19	6.34e+07	1.02 y	22:07	0.49	95.2		2.50				95.2
13C-PCB-9	1.35e+08	1.60 y	19:53	-	79.9		2.50				
PCB-37	5.65e+07	1.06 y	30:25	1.21	45.9		2.50	-	-	*	
13C-PCB-37	1.02e+08	1.07 y	30:24	1.51	99.5		2.50				99.5
PCB-54	5.34e+07	0.80 y	25:40	1.24	50.0		2.50	-	-	*	
13C-PCB-54	8.60e+07	0.82 y	25:38	1.34	94.5		2.50				94.5
PCB-104	3.98e+07	1.57 y	30:06	1.09	49.1		2.50	-	-	*	
13C-PCB-104	7.41e+07	1.60 y	30:04	1.08	101		2.50				101
13C-PCB-28	1.13e+08	1.04 y	26:43	1.80	92.4		2.50				92.4
13C-PCB-52	6.78e+07	0.81 y	28:58	-	83.7		2.50				
PCB-81	4.57e+07	0.78 y	36:10	1.25	45.1		2.50	-	-	*	
13C-PCB-81	8.11e+07	0.80 y	36:10	1.49	93.4		2.50				93.4
PCB-77	4.39e+07	0.80 y	36:44	1.08	49.5		2.50	-	-	*	
13C-PCB-77	8.19e+07	0.81 y	36:43	1.57	89.9		2.50				89.9
PCB-155	4.14e+07	1.26 y	34:15	1.04	50.1		2.50	-	-	*	
13C-PCB-155	7.96e+07	1.27 y	34:14	1.37	100		2.50				100
13C-PCB-111	7.31e+07	1.60 y	36:18	1.21	104		2.50				104
13C-PCB-101	5.82e+07	1.59 y	34:40	-	82.5		2.50				
PCB-123	4.04e+07	1.57 y	38:23	1.04	50.9		2.50	-	-	*	
13C-PCB-123	7.61e+07	1.60 y	38:21	1.28	108		2.50				108
PCB-118	4.41e+07	1.57 y	38:33	1.10	48.5		2.50	-	-	*	
13C-PCB-118	8.24e+07	1.61 y	38:31	1.39	107		2.50				107
PCB-114	4.13e+07	1.57 y	39:09	1.23	43.6		2.50	-	-	*	
13C-PCB-114	7.68e+07	1.60 y	39:09	1.31	106		2.50				106
PCB-105	3.97e+07	1.56 y	39:58	1.19	43.5		2.50	-	-	*	
13C-PCB-105	7.66e+07	1.61 y	39:57	1.32	105		2.50				105
PCB-126	3.63e+07	1.56 y	42:07	1.12	46.6		2.50	-	-	*	
13C-PCB-126	6.97e+07	1.61 y	42:05	1.25	101		2.50				101
PCB-167	3.74e+07	1.25 y	43:27	1.15	48.6		2.50	-	-	*	
13C-PCB-167	6.72e+07	1.29 y	43:26	1.14	107		2.50				107
PCB-156	3.63e+07	1.26 y	44:41	1.21	46.4		2.50	-	-	*	
13C-PCB-156	6.47e+07	1.29 y	44:40	1.12	104		2.50				104
PCB-157	3.59e+07	1.26 y	44:56	1.17	45.9		2.50	-	-	*	
13C-PCB-157	6.72e+07	1.29 y	44:55	1.15	105		2.50				105
PCB-169	3.26e+07	1.27 y	46:48	1.10	50.3		2.50	-	-	*	
13C-PCB-169	5.90e+07	1.30 y	46:46	1.07	99.1		2.50				99.1
PCB-188	3.72e+07	1.04 y	39:45	1.05	50.1		2.50	-	-	*	
13C-PCB-188	7.09e+07	1.05 y	39:43	1.18	109		2.50				109
PCB-189	2.93e+07	1.03 y	48:27	1.00	50.5		2.50	-	-	*	
13C-PCB-189	5.83e+07	1.04 y	48:27	1.01	104		2.50				104
PCB-202	3.23e+07	0.88 y	44:51	1.02	49.6		2.50	-	-	*	
13C-PCB-202	6.40e+07	0.91 y	44:50	0.95	122		2.50				122
13C-PCB-178	4.74e+07	1.05 y	42:21	0.80	107		2.50				107
13C-PCB-138	5.54e+07	1.30 y	41:35	-	74.5		2.50				

FAL ID: ST073119Z1 Filename: 31JUL19Z Sam:1 Acquired: 31-JUL-19 12:23:40 ICal: DAILY209FAL4-7-31-19 2 of 2
Client ID: 1668 CS3 R181204D ConCal: ST073119Z1 EndCal: ST073119Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	3.82e+07	0.90	y	50:07	1.09	50.4	2.50	-	-	*	
13C-PCB-205	6.96e+07	0.91	y	50:06	1.29	105	2.50				105
PCB-208	3.64e+07	1.35	y	49:10	1.05	48.7	2.50	-	-	*	
13C-PCB-208	7.09e+07	0.80	y	49:10	1.15	119	2.50				119
PCB-206	2.56e+07	1.37	y	51:19	1.08	49.0	2.50	-	-	*	
13C-PCB-206	4.82e+07	0.81	y	51:18	0.88	106	2.50				106
PCB-209	3.35e+07	1.20	y	52:31	1.13	50.0	2.50	-	-	*	
13C-PCB-209	5.92e+07	1.20	y	52:29	1.08	106	2.50				106
13C-PCB-194	5.16e+07	0.91	y	49:50	-	71.9	2.50				

Analyst: _____ Date: 7/31/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/31/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JUL19Z Sam:16 Analysis Date: 1-AUG-19 03:01:17

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.22	2.66-3.60	y	46.2	37.5 - 62.5
PCB-3	M/M+2	3.27	2.66-3.60	y	46.7	37.5 - 62.5
PCB-4	M/M+2	1.52	1.33-1.79	y	44.9	37.5 - 62.5
PCB-15	M/M+2	1.51	1.33-1.79	y	43.3	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	48.3	37.5 - 62.5
PCB-37	M/M+2	1.03	0.88-1.20	y	45.4	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	47.6	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	47.9	37.5 - 62.5
PCB-81	M/M+2	0.80	0.65-0.89	y	43.7	37.5 - 62.5
PCB-104	M+2/M+4	1.55	1.32-1.78	y	49.8	37.5 - 62.5
PCB-105	M+2/M+4	1.58	1.32-1.78	y	43.3	37.5 - 62.5
PCB-114	M+2/M+4	1.57	1.32-1.78	y	42.8	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	46.8	37.5 - 62.5
PCB-123	M+2/M+4	1.54	1.32-1.78	y	50.6	37.5 - 62.5
PCB-126	M+2/M+4	1.54	1.32-1.78	y	46.9	37.5 - 62.5
PCB-155	M+2/M+4	1.25	1.05-1.43	y	49.0	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	44.8	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	44.6	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	46.0	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	47.6	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	51.0	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	0.87	0.76-1.02	y	49.5	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	50.4	37.5 - 62.5
PCB-206	M+4/M+6	1.34	1.13-1.53	y	47.6	37.5 - 62.5
PCB-208	M+4/M+6	1.38	1.13-1.53	y	49.4	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	49.0	37.5 - 62.5

Analyst: _____ Date: 8/1/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/31/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JUL19Z Sam:16 Analysis Date: 1-AUG-19 03:01:17

	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	120	50.0 - 145
13C-PCB-3	M/M+2	3.18	2.66-3.60	y	107	50.0 - 145
13C-PCB-4	M/M+2	1.58	1.33-1.79	y	116	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	97.1	50.0 - 145
13C-PCB-19	M/M+2	1.04	0.88-1.20	y	124	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	84.0	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	114	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	80.8	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	82.4	50.0 - 145
13C-PCB-104	M+2/M+4	1.58	1.32-1.78	y	117	50.0 - 145
13C-PCB-105	M+2/M+4	1.56	1.32-1.78	y	93.8	50.0 - 145
13C-PCB-114	M+2/M+4	1.56	1.32-1.78	y	92.9	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	94.9	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	95.6	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	90.4	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	118	50.0 - 145
13C-PCB-156	M+2/M+4	1.31	1.05-1.43	y	104	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	107	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	104	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	109	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	115	50.0 - 145
13C-PCB-189	M+2/M+4	1.04	0.89-1.21	y	113	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	127	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	0.81	0.65-0.89	y	120	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	116	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	128	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	86.8	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	105	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	112	75.0 - 125

Analyst: [signature] Date: 8/1/19

FAL ID: ST073119Z2 Filename: 31JUL19Z Sam:16 Acquired: 1-AUG-19 03:01:17 ICal: DAILY209FAL4-7-31-19
Client ID: 1668 CS3 R181204D ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

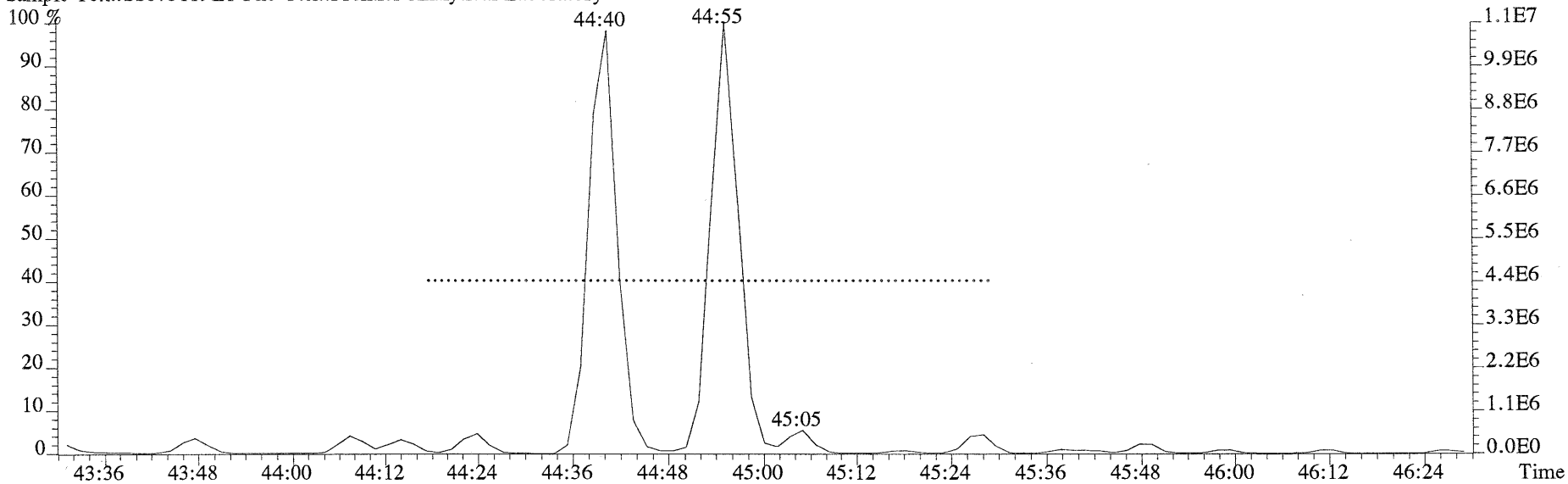
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	5.28e+07	3.22 y	14:33	1.20	46.2		2.50	-	-	*	
13C-PCB-1	9.51e+07	3.17 y	14:32	0.94	120		2.50				120
PCB-3	4.58e+07	3.27 y	16:59	1.22	46.7		2.50	-	-	*	
13C-PCB-3	8.01e+07	3.18 y	16:58	0.88	107		2.50				107
PCB-4	3.44e+07	1.52 y	18:13	1.16	44.9		2.50	-	-	*	
13C-PCB-4	6.62e+07	1.58 y	18:12	0.67	116		2.50				116
PCB-15	3.78e+07	1.51 y	23:45	1.16	43.3		2.50	-	-	*	
13C-PCB-15	7.54e+07	1.60 y	23:44	0.91	97.1		2.50				97.1
PCB-19	2.91e+07	1.04 y	22:06	1.16	48.3		2.50	-	-	*	
13C-PCB-19	5.19e+07	1.04 y	22:05	0.49	124		2.50				124
13C-PCB-9	8.49e+07	1.58 y	19:53	-	50.2		2.50				
PCB-37	2.98e+07	1.03 y	30:25	1.21	45.4		2.50	-	-	*	
13C-PCB-37	5.44e+07	1.07 y	30:23	1.51	84.0		2.50				84.0
PCB-54	3.86e+07	0.79 y	25:39	1.24	47.6		2.50	-	-	*	
13C-PCB-54	6.54e+07	0.82 y	25:38	1.34	114		2.50				114
PCB-104	2.95e+07	1.55 y	30:04	1.09	49.8		2.50	-	-	*	
13C-PCB-104	5.41e+07	1.58 y	30:03	1.08	117		2.50				117
13C-PCB-28	6.70e+07	1.05 y	26:42	1.80	86.8		2.50				86.8
13C-PCB-52	4.29e+07	0.81 y	28:57	-	52.9		2.50				
PCB-81	2.44e+07	0.80 y	36:10	1.25	43.7		2.50	-	-	*	
13C-PCB-81	4.48e+07	0.81 y	36:08	1.49	82.4		2.50				82.4
PCB-77	2.39e+07	0.80 y	36:44	1.08	47.9		2.50	-	-	*	
13C-PCB-77	4.61e+07	0.80 y	36:42	1.57	80.8		2.50				80.8
PCB-155	2.98e+07	1.25 y	34:13	1.04	49.0		2.50	-	-	*	
13C-PCB-155	5.87e+07	1.27 y	34:12	1.37	118		2.50				118
13C-PCB-111	4.64e+07	1.59 y	36:17	1.21	105		2.50				105
13C-PCB-101	3.64e+07	1.60 y	34:39	-	51.7		2.50				
PCB-123	2.22e+07	1.54 y	38:22	1.04	50.6		2.50	-	-	*	
13C-PCB-123	4.20e+07	1.59 y	38:20	1.28	95.6		2.50				95.6
PCB-118	2.35e+07	1.54 y	38:32	1.10	46.8		2.50	-	-	*	
13C-PCB-118	4.54e+07	1.58 y	38:30	1.39	94.9		2.50				94.9
PCB-114	2.21e+07	1.57 y	39:08	1.23	42.8		2.50	-	-	*	
13C-PCB-114	4.18e+07	1.56 y	39:08	1.31	92.9		2.50				92.9
PCB-105	2.20e+07	1.58 y	39:57	1.19	43.3		2.50	-	-	*	
13C-PCB-105	4.27e+07	1.56 y	39:56	1.32	93.8		2.50				93.8
PCB-126	2.04e+07	1.54 y	42:04	1.12	46.9		2.50	-	-	*	
13C-PCB-126	3.89e+07	1.60 y	42:04	1.25	90.4		2.50				90.4
PCB-167	2.14e+07	1.25 y	43:26	1.15	46.0		2.50	-	-	*	
13C-PCB-167	4.06e+07	1.29 y	43:25	1.14	104		2.50				104
PCB-156	2.17e+07	1.26 y	44:40	1.21	44.8		2.50	-	-	*	
13C-PCB-156	4.00e+07	1.31 y	44:39	1.12	104		2.50				104
PCB-157	2.21e+07	1.27 y	44:55	1.17	44.6		2.50	-	-	*	
13C-PCB-157	4.24e+07	1.30 y	44:54	1.15	107		2.50				107
PCB-169	2.10e+07	1.27 y	46:47	1.10	47.6		2.50	-	-	*	
13C-PCB-169	4.01e+07	1.27 y	46:46	1.07	109		2.50				109
PCB-188	2.50e+07	1.05 y	39:44	1.05	51.0		2.50	-	-	*	
13C-PCB-188	4.68e+07	1.06 y	39:42	1.18	115		2.50				115
PCB-189	2.00e+07	1.05 y	48:26	1.00	51.4		2.50	-	-	*	
13C-PCB-189	3.91e+07	1.04 y	48:26	1.01	113		2.50				113
PCB-202	2.08e+07	0.87 y	44:50	1.02	49.5		2.50	-	-	*	
13C-PCB-202	4.13e+07	0.91 y	44:49	0.95	127		2.50				127
13C-PCB-178	3.07e+07	1.06 y	42:21	0.80	112		2.50				112
13C-PCB-138	3.44e+07	1.29 y	41:34	-	46.3		2.50				

FAL ID: ST073119Z2 Filename: 31JUL19Z Sam:16 Acquired: 1-AUG-19 03:01:17 ICal: DAILY209FAL4-7-31-19 2 of 2
Client ID: 1668 CS3 R181204D ConCal: ST073119Z1 EndCal: ST073119Z2
Results: 12510 GC Column: DB1MS Amount: 1.000

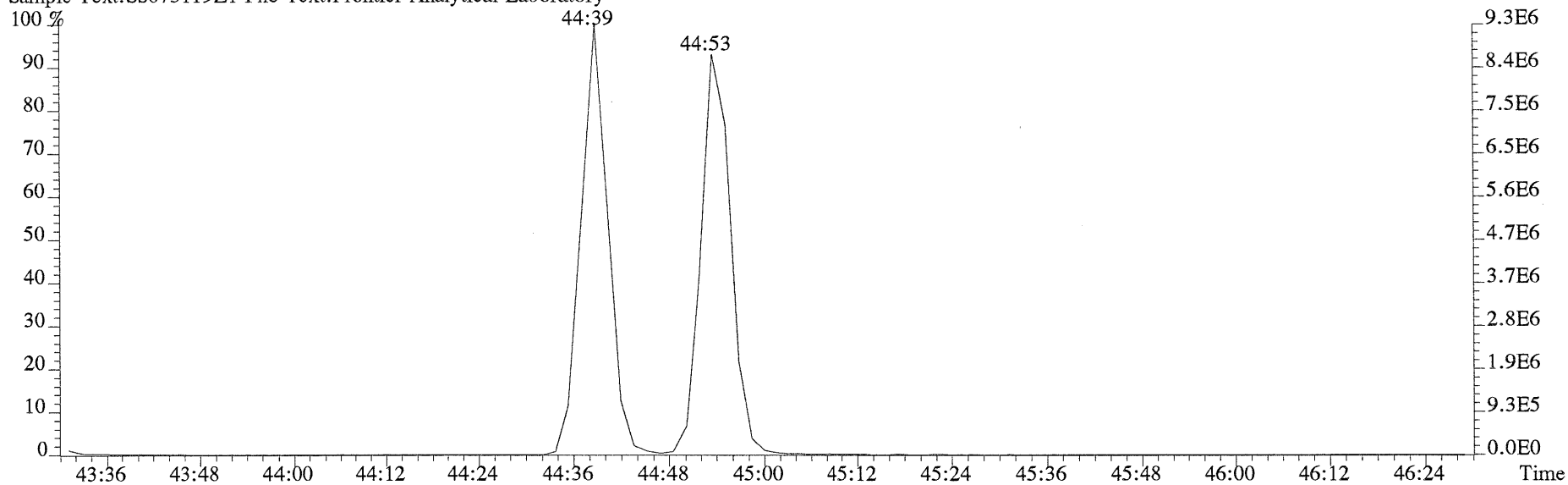
PCB-205	2.26e+07	0.89	y	50:06	1.09	50.4	2.50	-	-	*	
13C-PCB-205	4.13e+07	0.91	y	50:05	1.29	102	2.50				102
PCB-208	2.18e+07	1.38	y	49:10	1.05	49.4	2.50	-	-	*	
13C-PCB-208	4.18e+07	0.81	y	49:09	1.15	116	2.50				116
PCB-206	1.71e+07	1.34	y	51:18	1.08	47.6	2.50	-	-	*	
13C-PCB-206	3.30e+07	0.81	y	51:17	0.88	120	2.50				120
PCB-209	2.40e+07	1.19	y	52:30	1.13	49.0	2.50	-	-	*	
13C-PCB-209	4.33e+07	1.21	y	52:29	1.08	128	2.50				128
13C-PCB-194	3.13e+07	0.91	y	49:50	-	43.6	2.50				

Analyst: _____ Date: 8/1/19

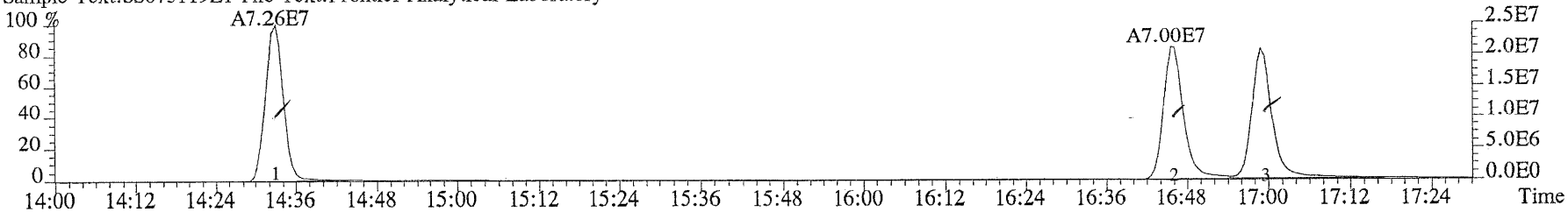
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



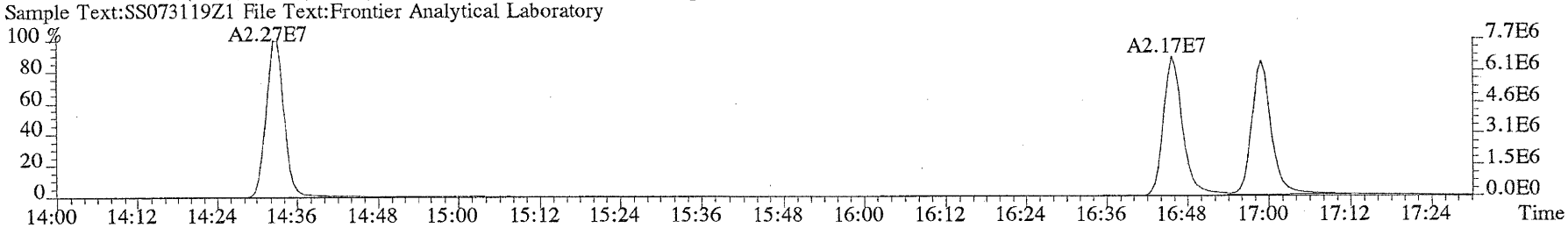
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



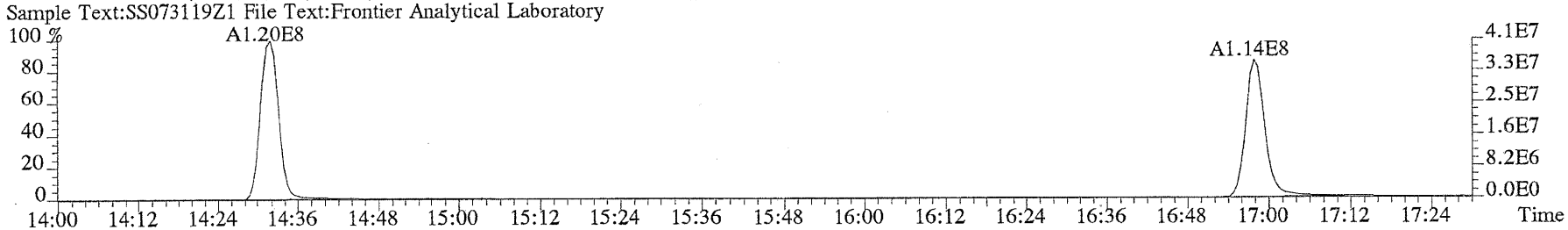
File:31JUL19Z #1-783 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



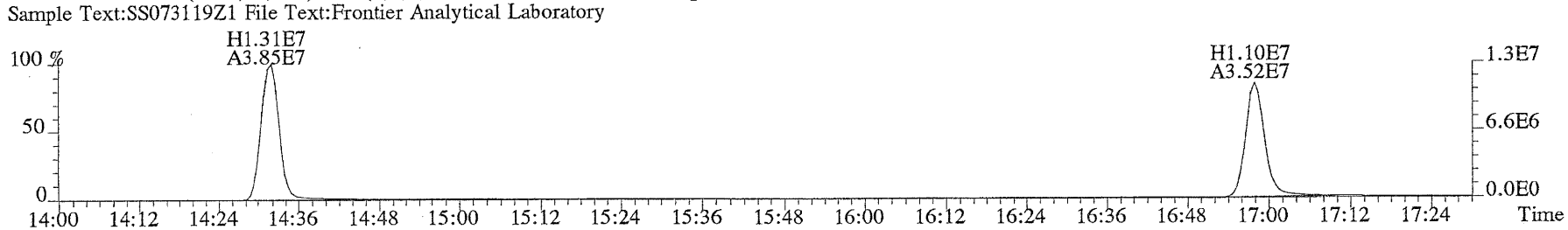
File:31JUL19Z #1-783 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



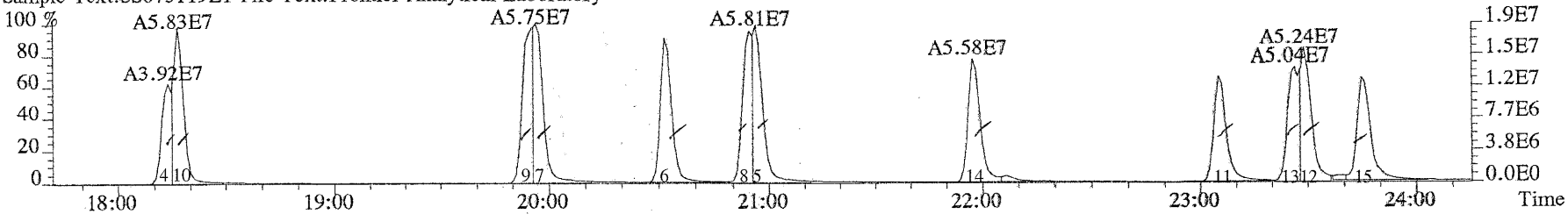
File:31JUL19Z #1-783 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



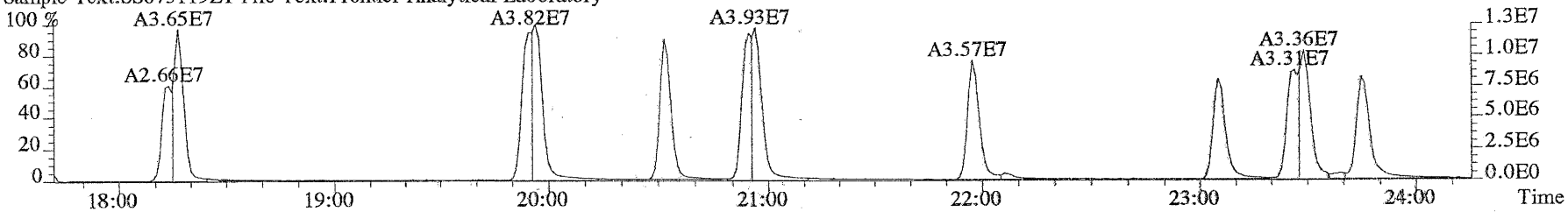
File:31JUL19Z #1-783 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



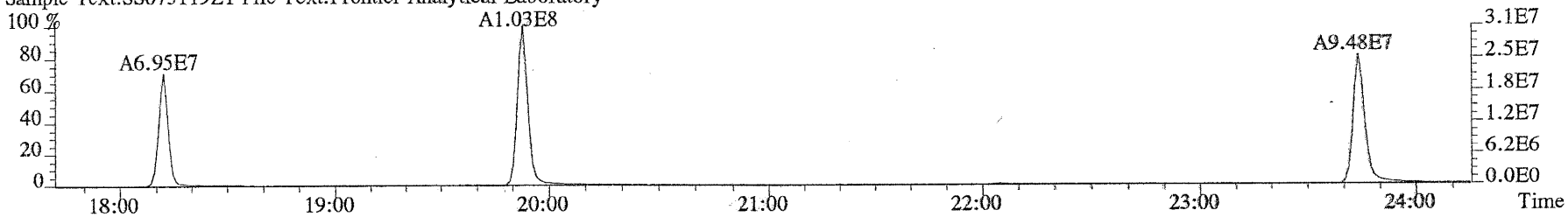
File:31JUL19Z #1-520 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



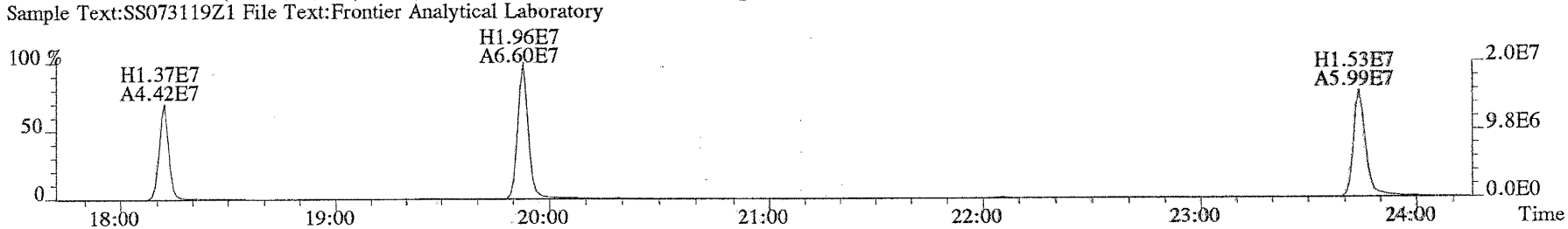
File:31JUL19Z #1-520 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



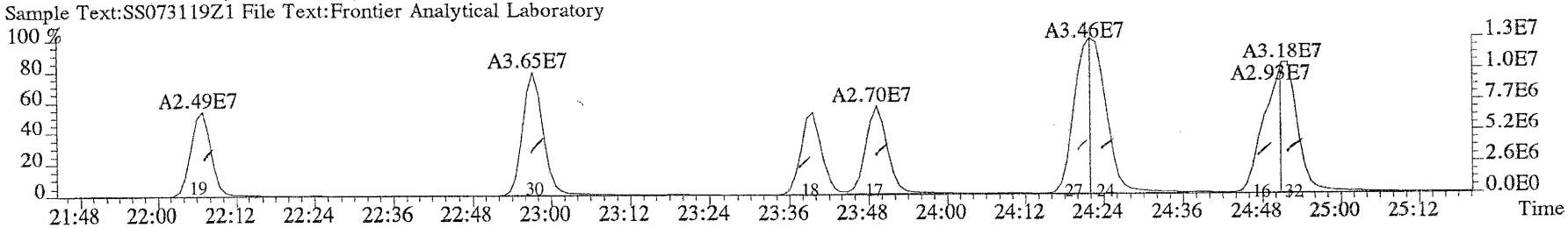
File:31JUL19Z #1-520 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



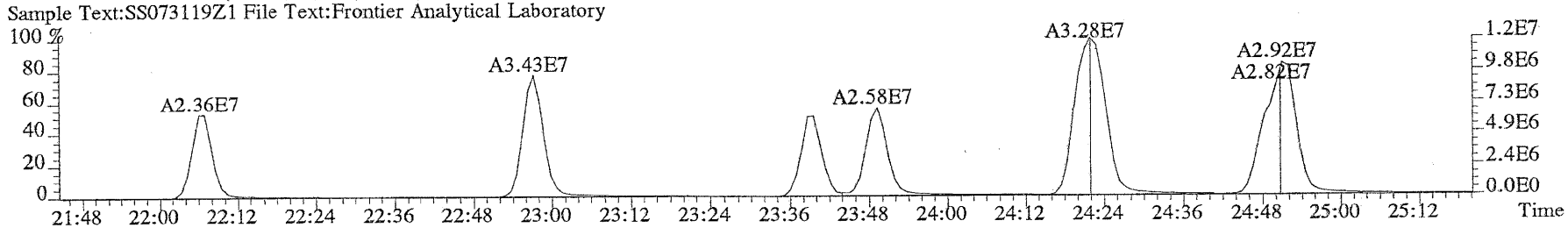
File:31JUL19Z #1-520 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



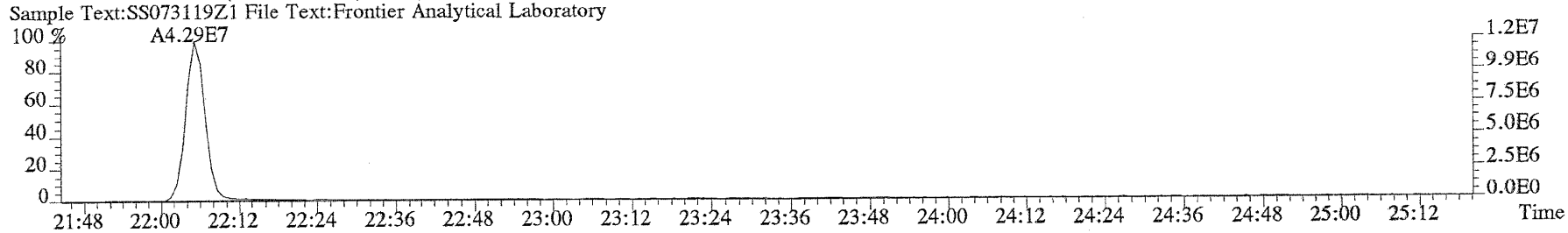
File:31JUL19Z #1-520 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



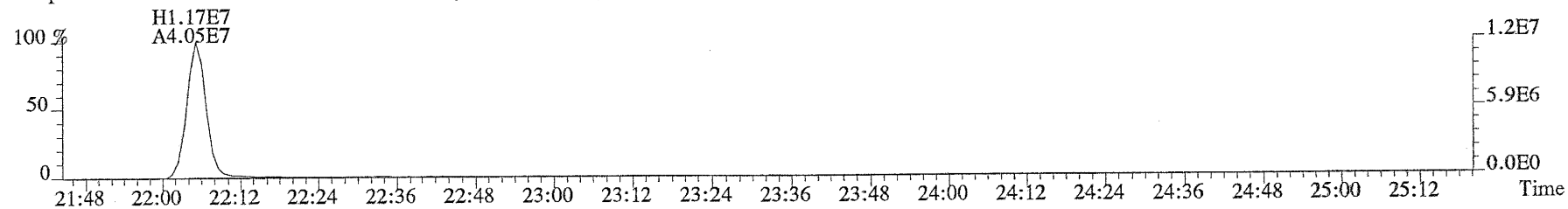
File:31JUL19Z #1-520 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



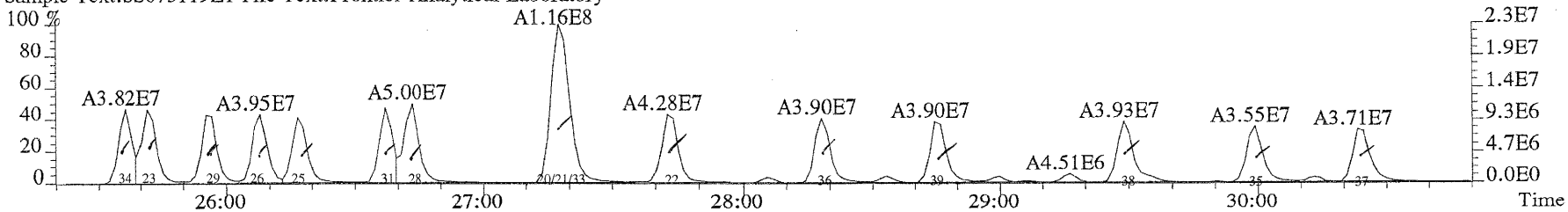
File:31JUL19Z #1-520 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



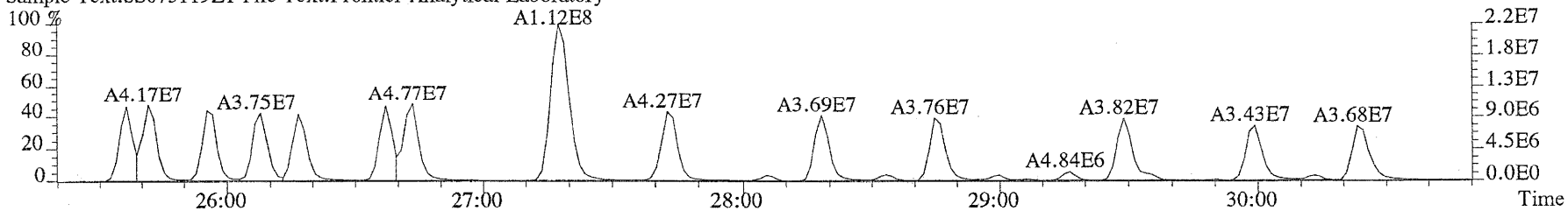
File:31JUL19Z #1-520 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



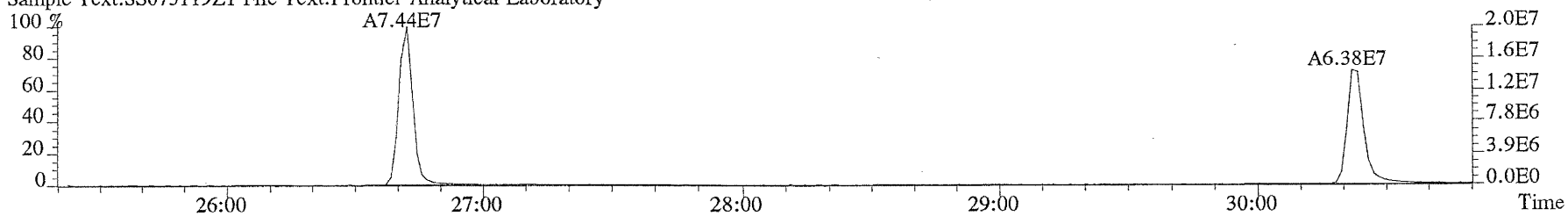
File:31JUL19Z #1-401 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



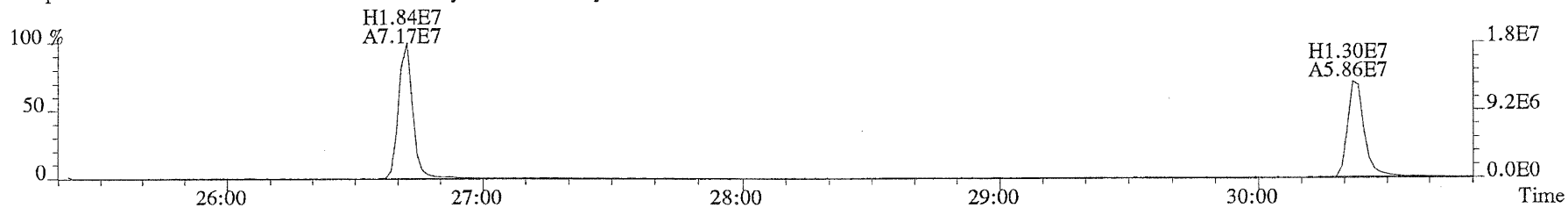
File:31JUL19Z #1-401 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



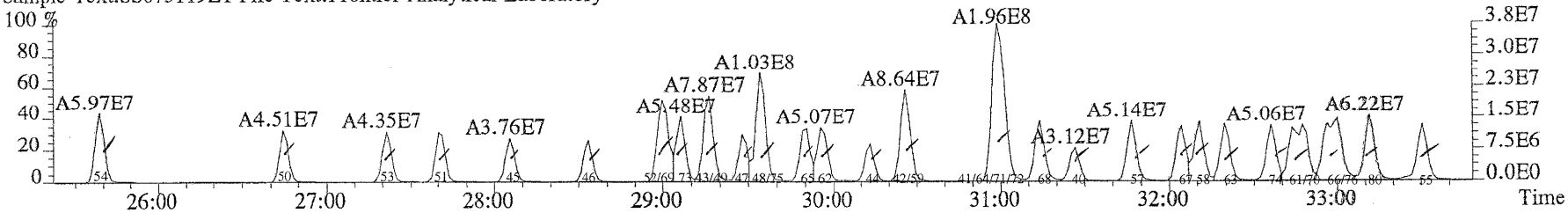
File:31JUL19Z #1-401 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



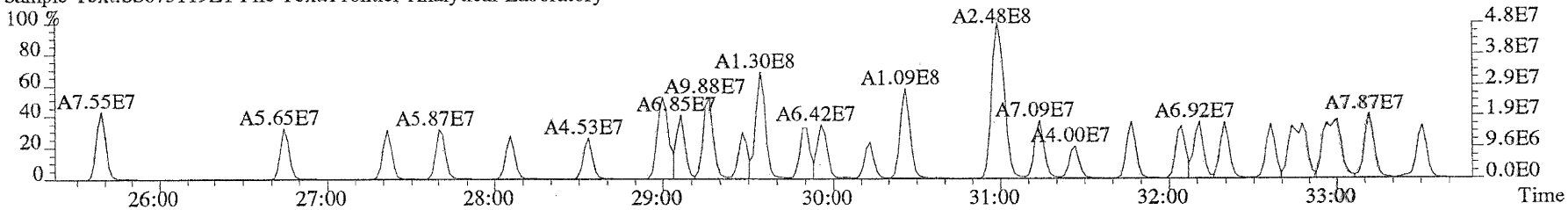
File:31JUL19Z #1-401 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



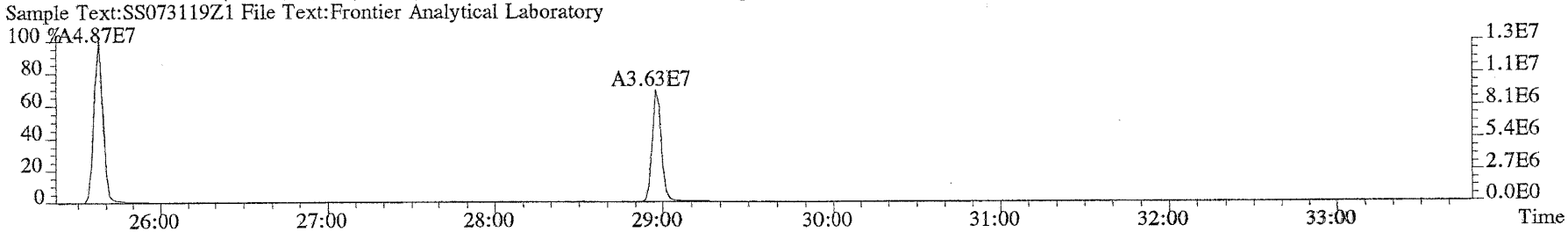
File:31JUL19Z #1-401 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



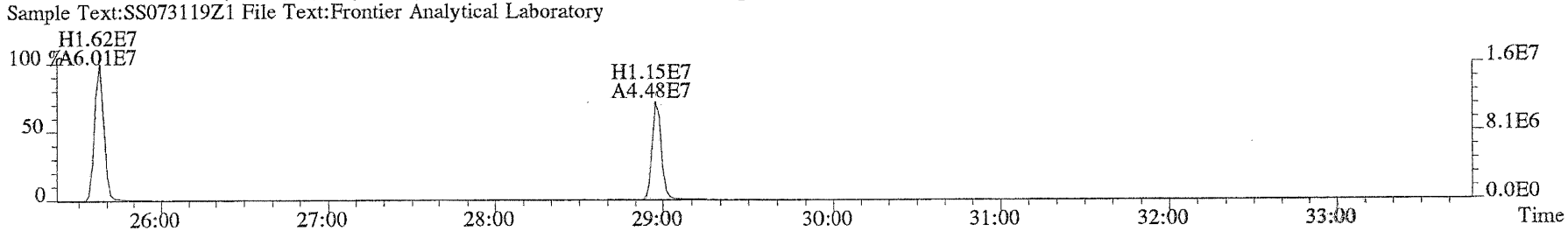
File:31JUL19Z #1-401 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



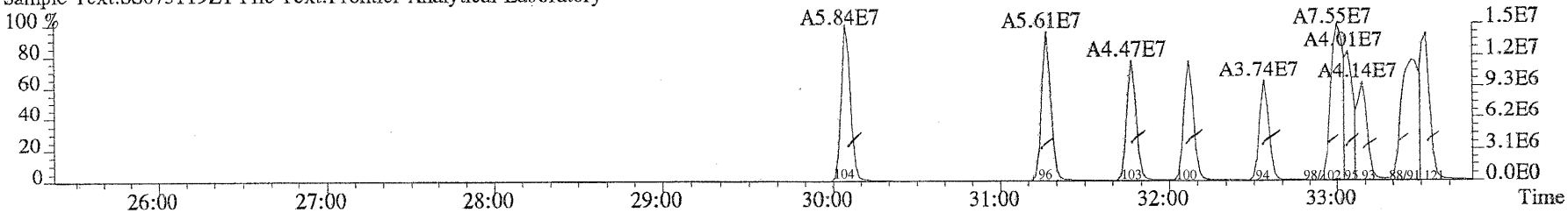
File:31JUL19Z #1-401 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



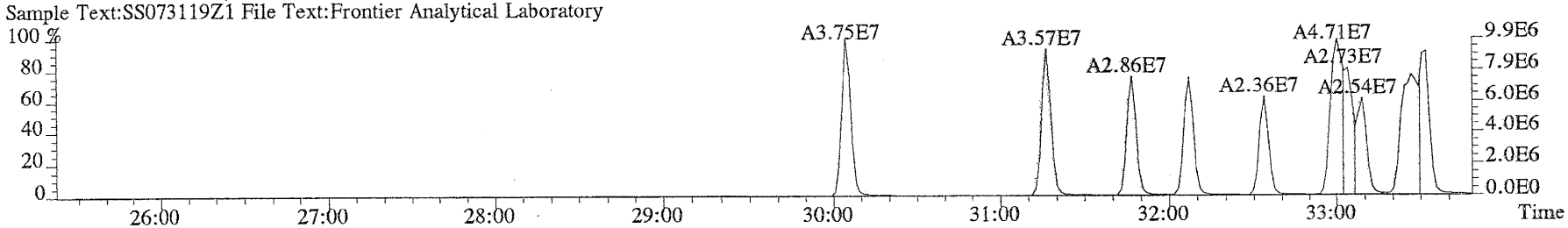
File:31JUL19Z #1-401 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



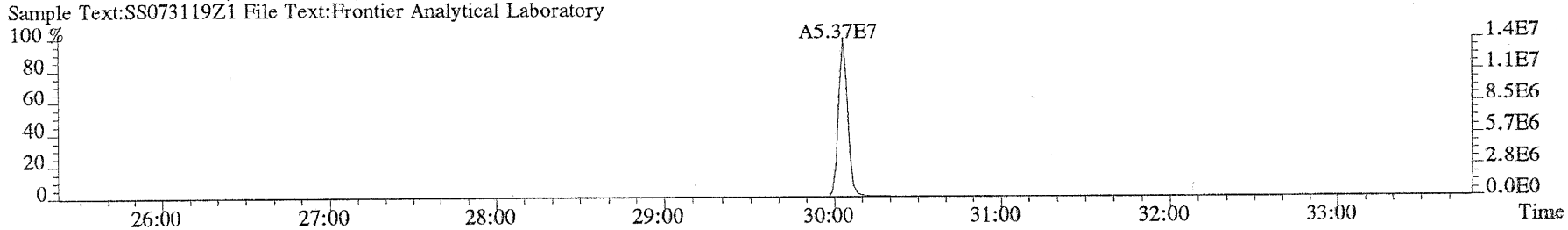
File:31JUL19Z #1-401 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



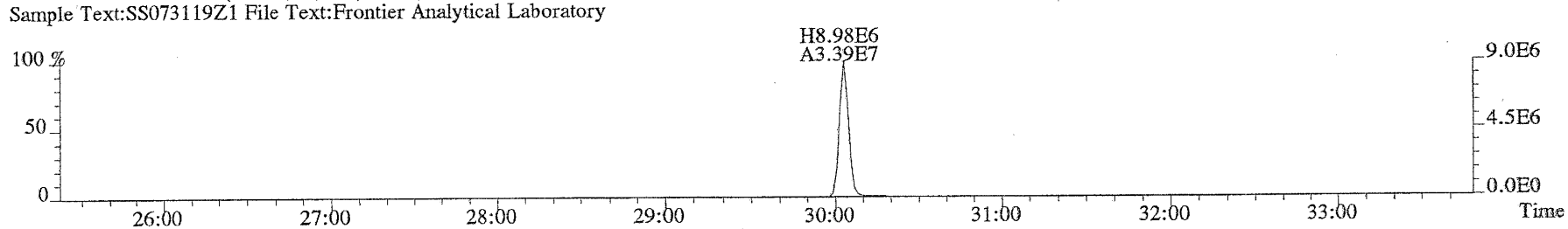
File:31JUL19Z #1-401 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



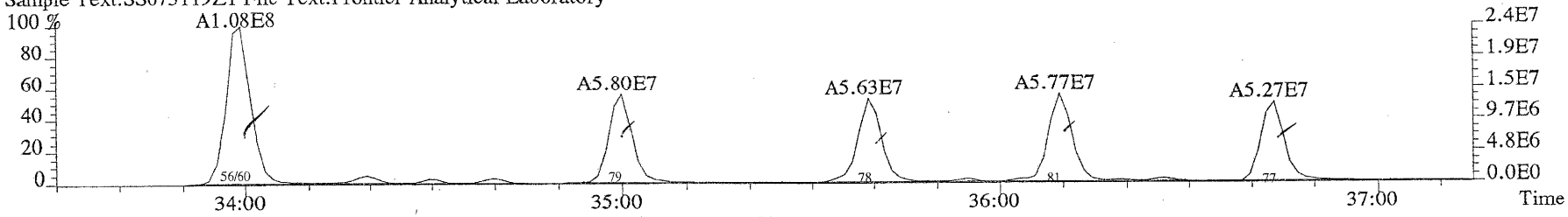
File:31JUL19Z #1-401 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



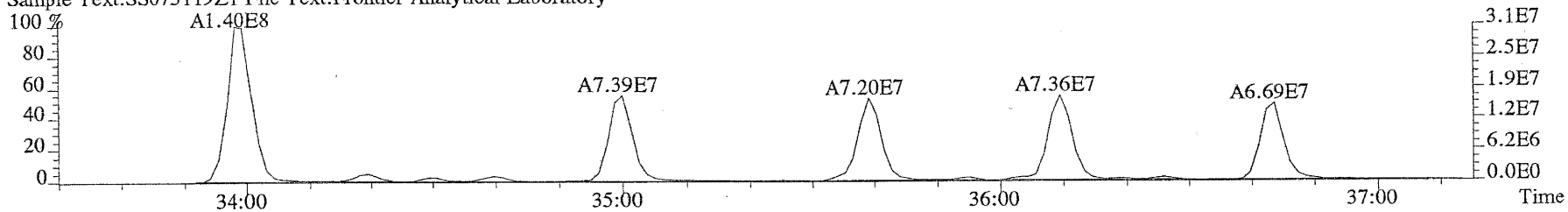
File:31JUL19Z #1-401 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



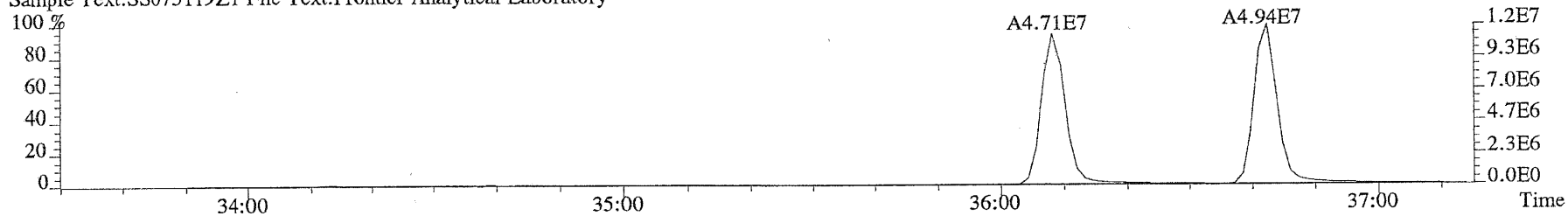
File:31JUL19Z #1-181 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



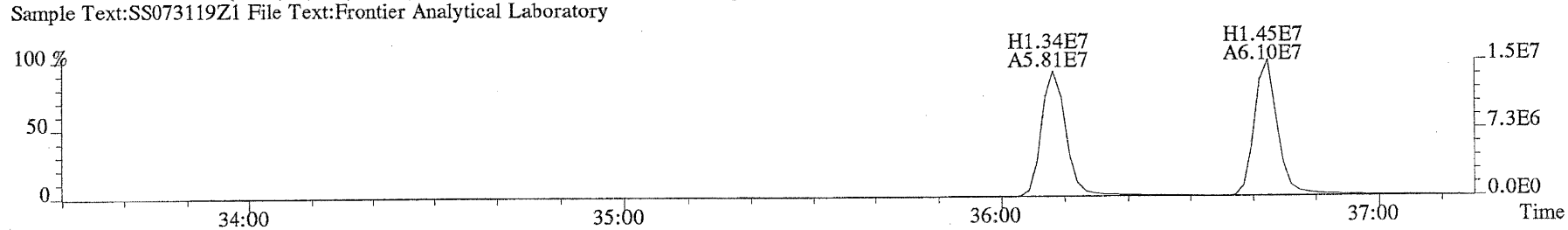
File:31JUL19Z #1-181 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



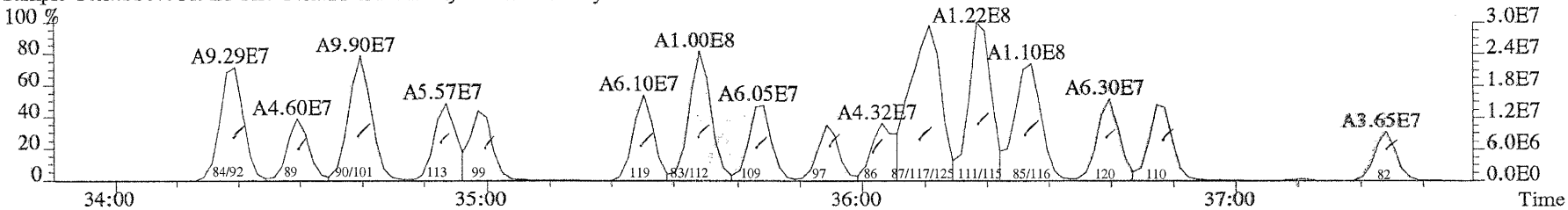
File:31JUL19Z #1-181 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



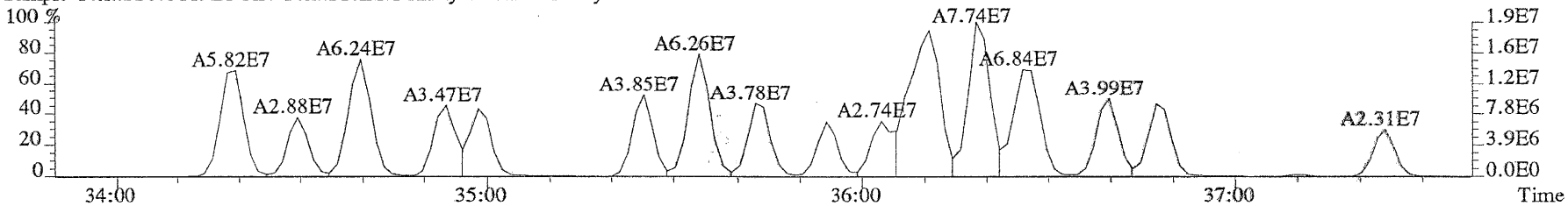
File:31JUL19Z #1-181 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



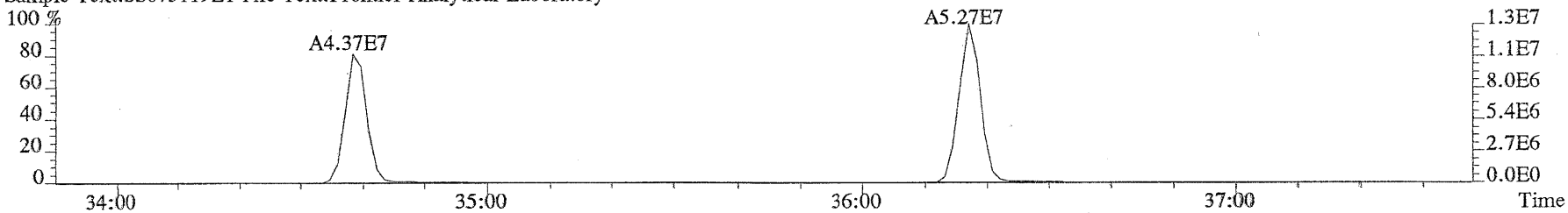
File:31JUL19Z #1-181 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



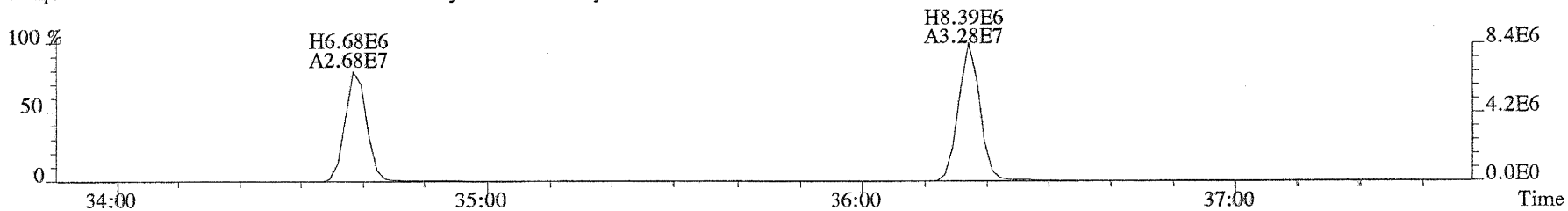
File:31JUL19Z #1-181 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



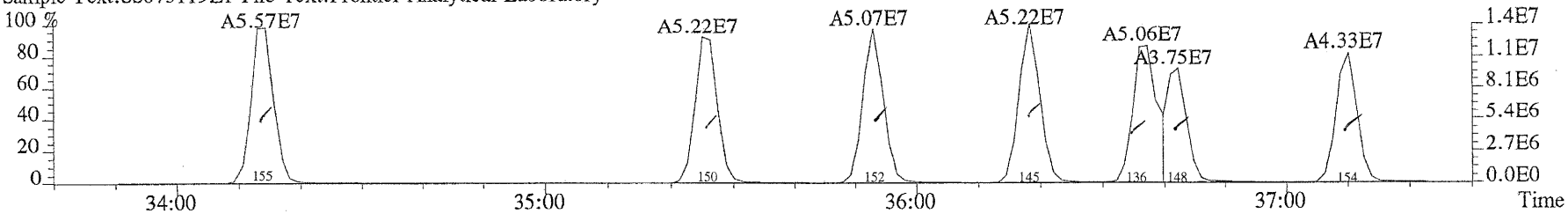
File:31JUL19Z #1-181 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



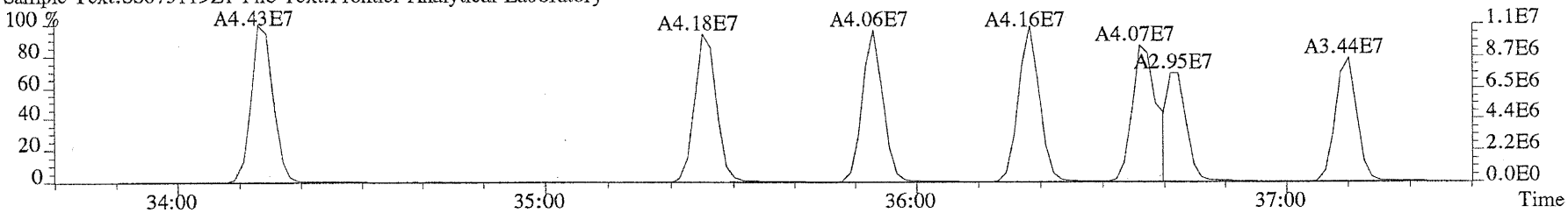
File:31JUL19Z #1-181 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



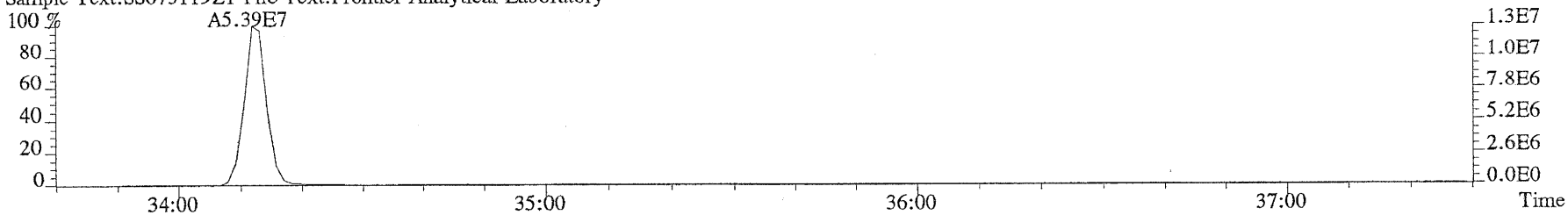
File:31JUL19Z #1-181 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



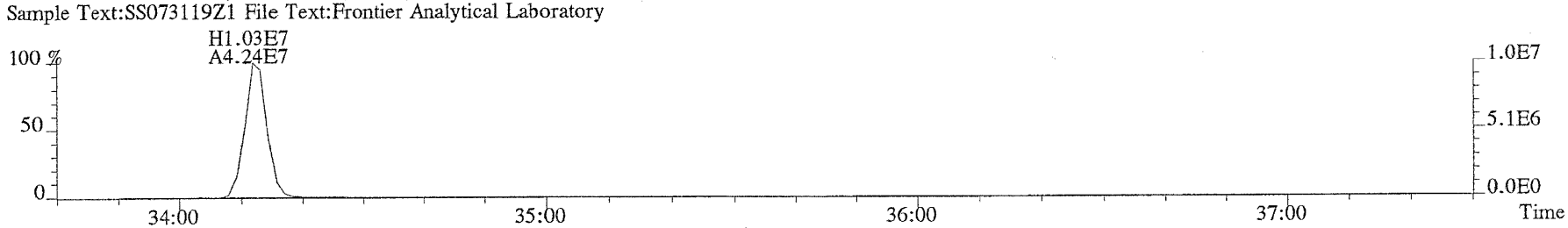
File:31JUL19Z #1-181 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



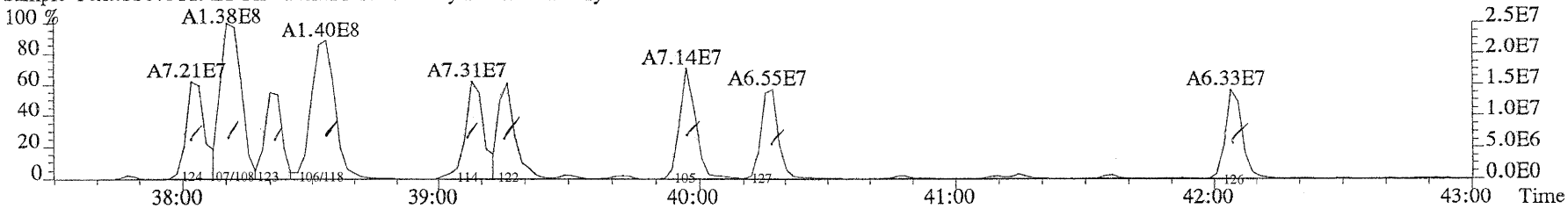
File:31JUL19Z #1-181 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



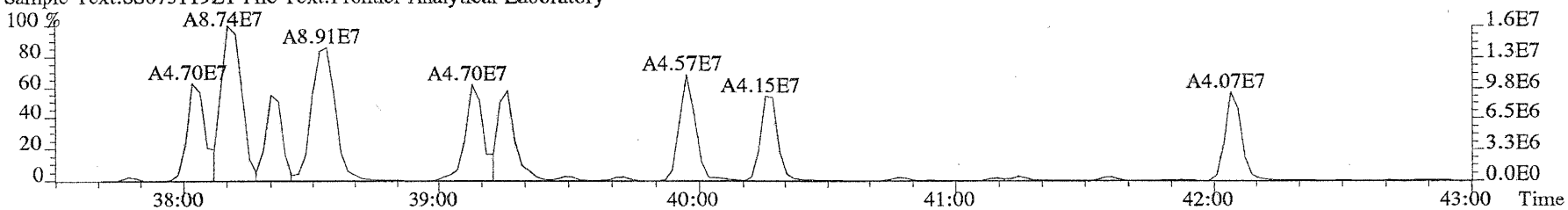
File:31JUL19Z #1-181 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



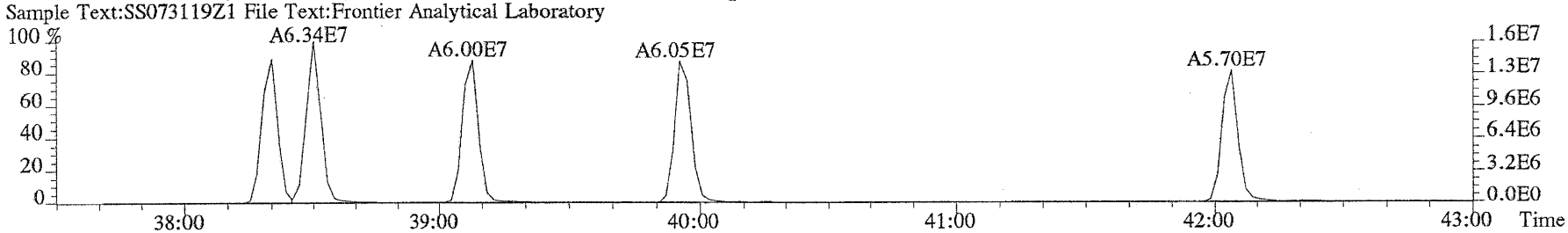
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



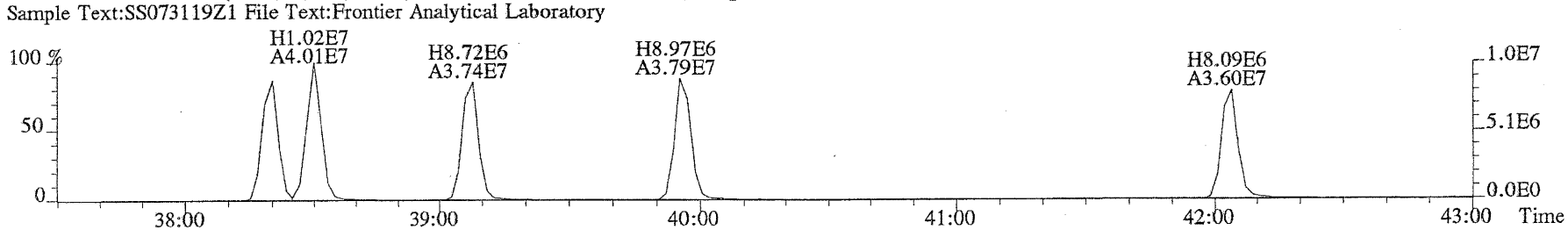
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



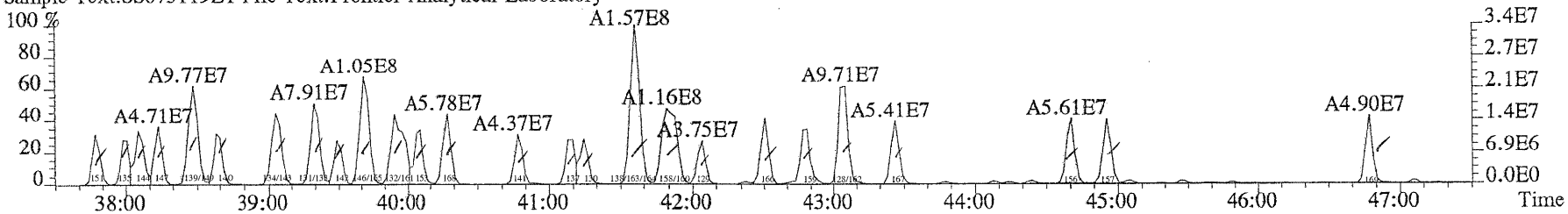
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



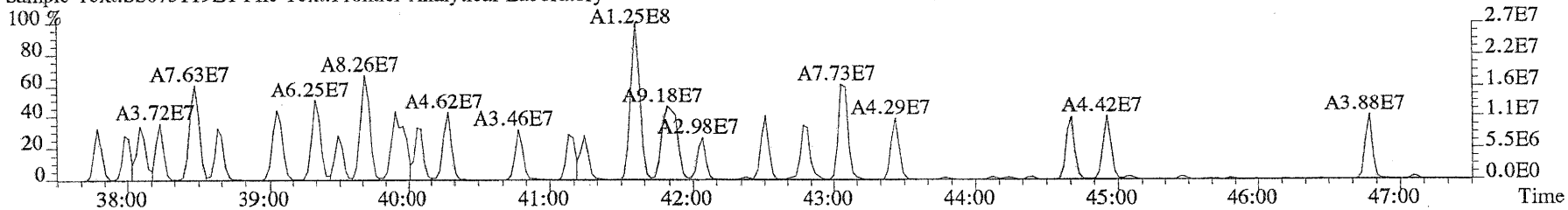
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



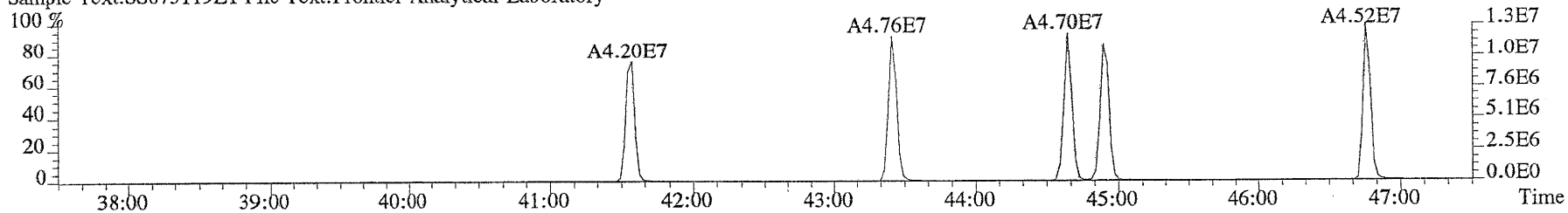
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



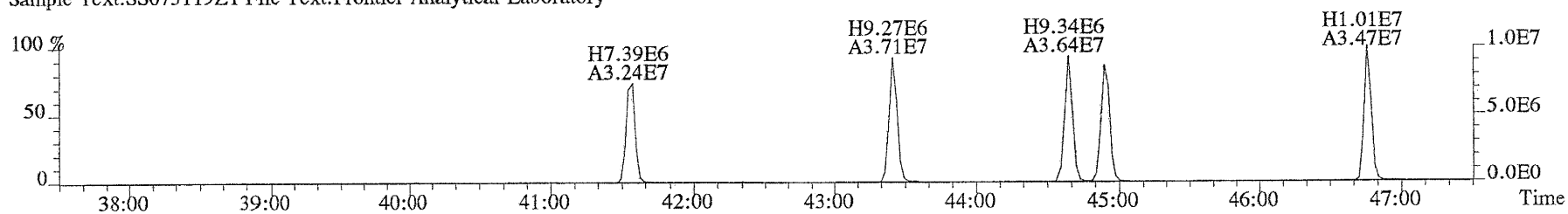
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



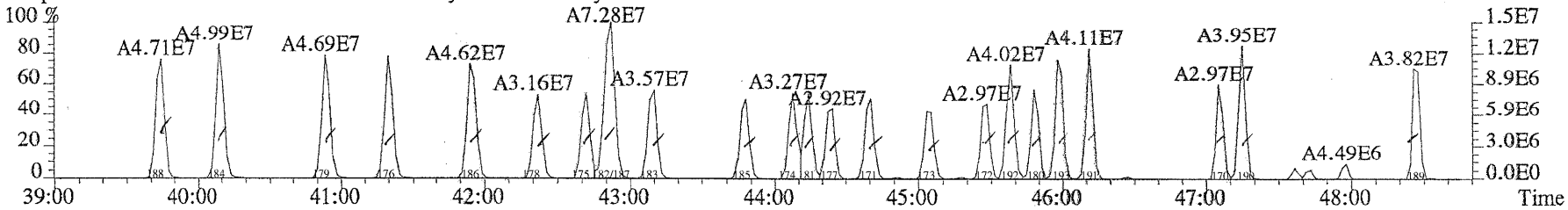
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



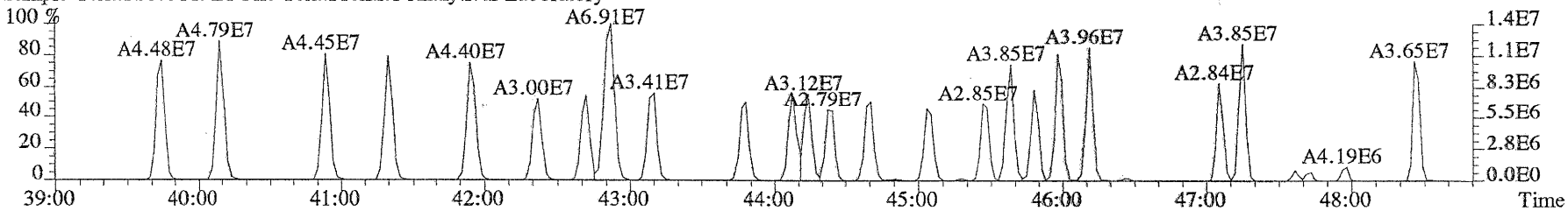
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



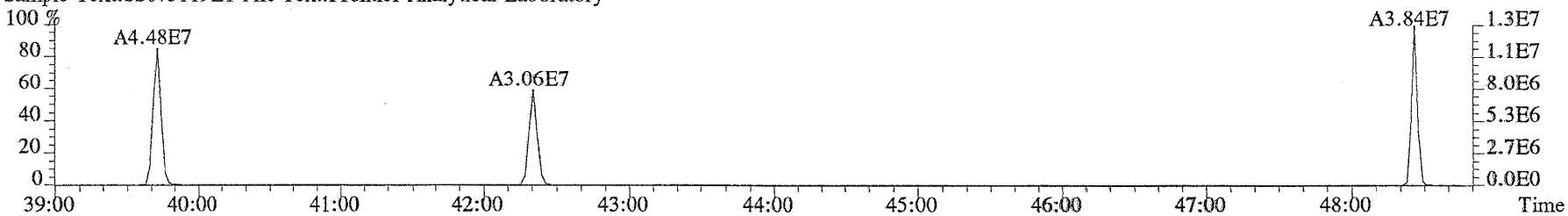
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



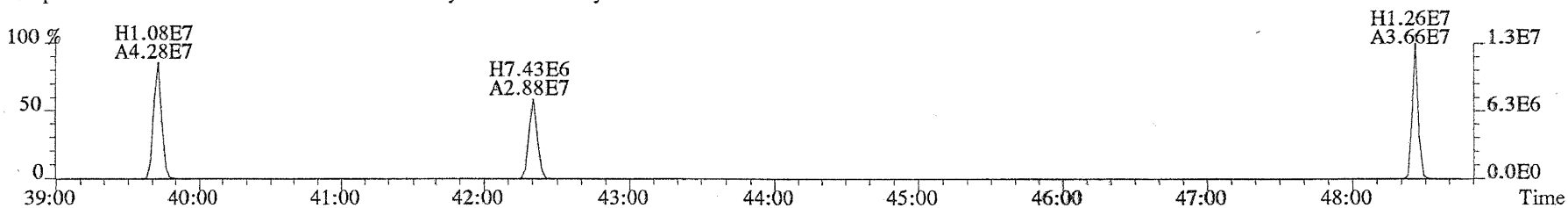
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



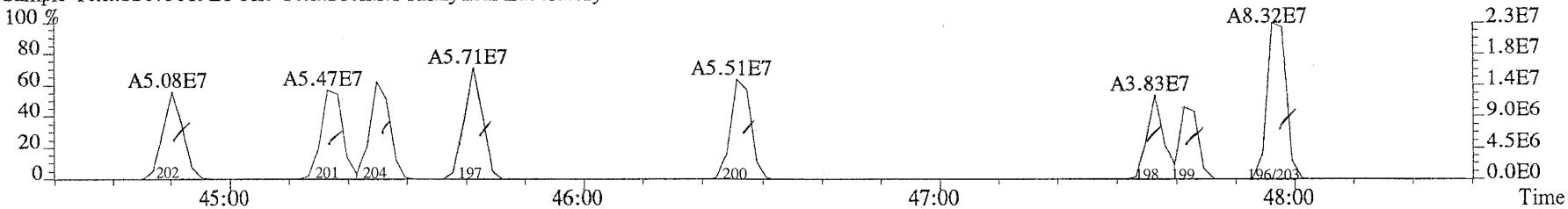
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



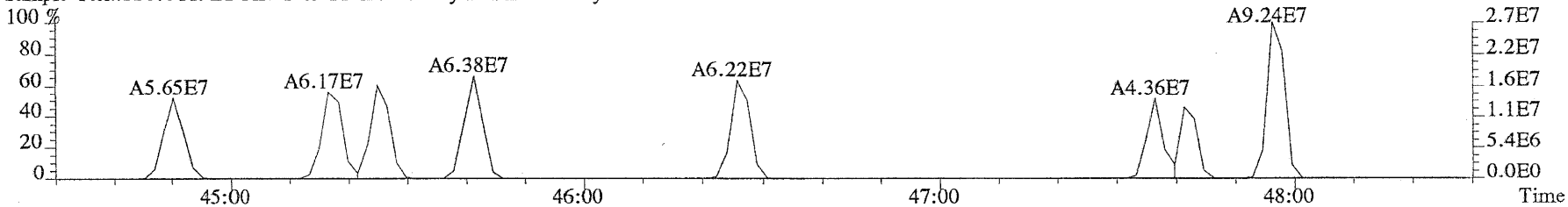
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



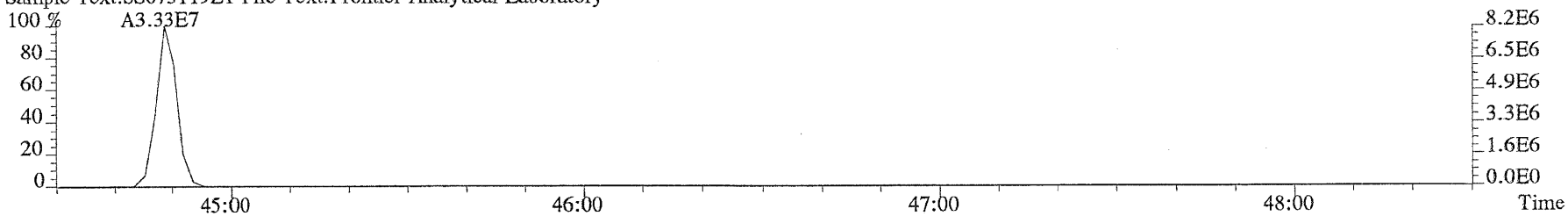
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



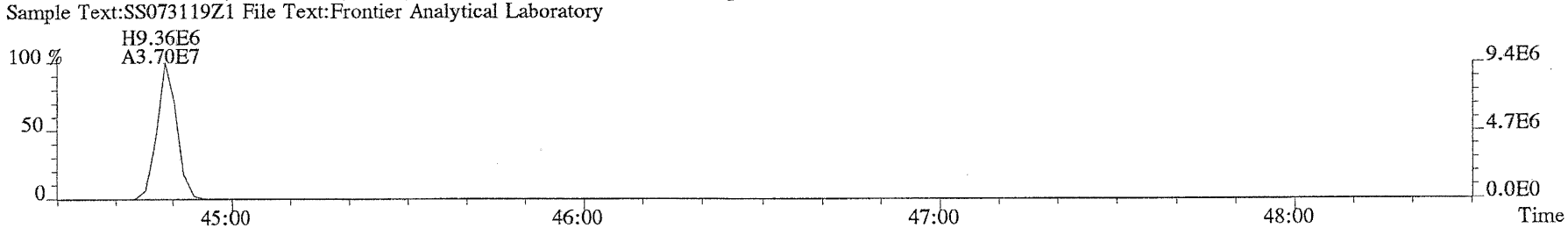
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



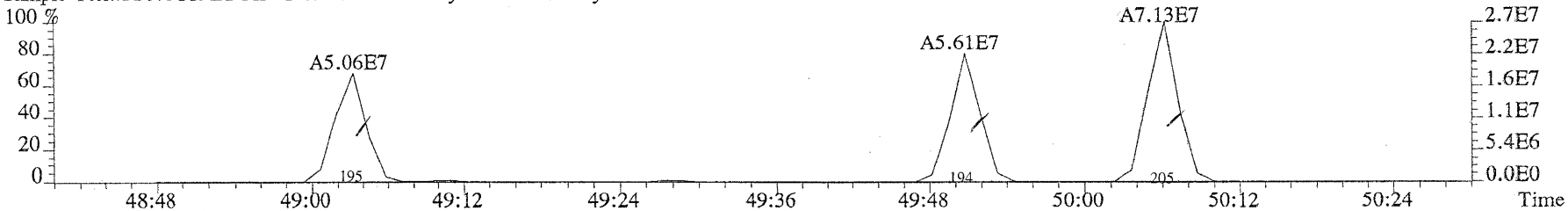
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



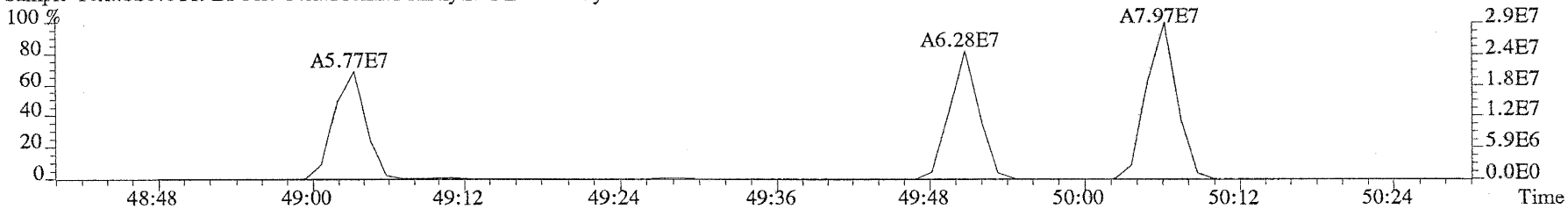
File:31JUL19Z #1-405 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



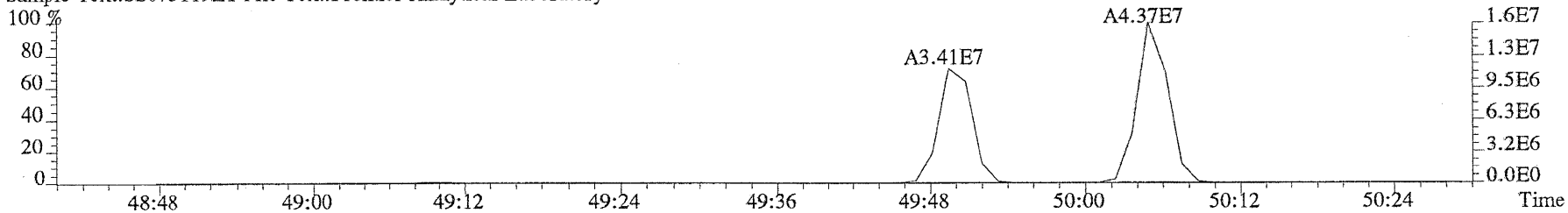
File:31JUL19Z #1-315 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



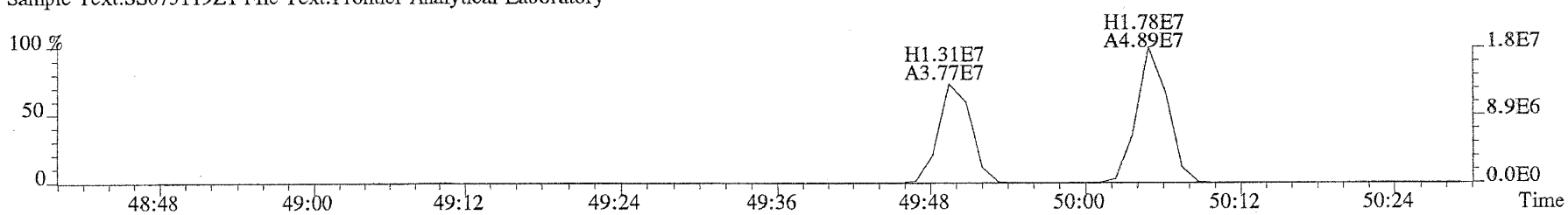
File:31JUL19Z #1-315 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



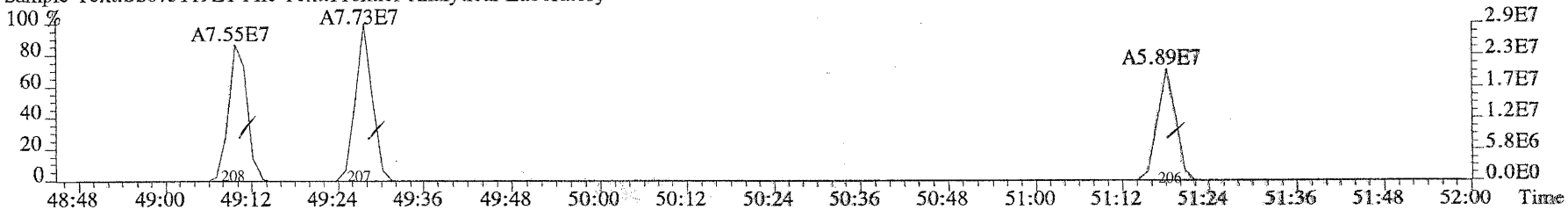
File:31JUL19Z #1-315 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



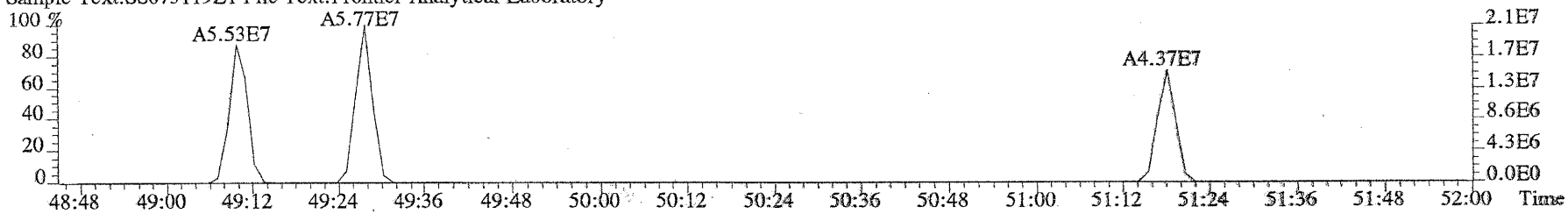
File:31JUL19Z #1-315 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



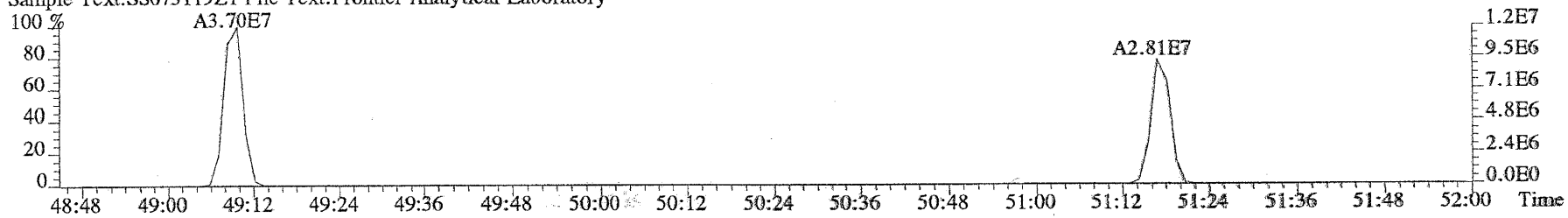
File:31JUL19Z #1-315 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



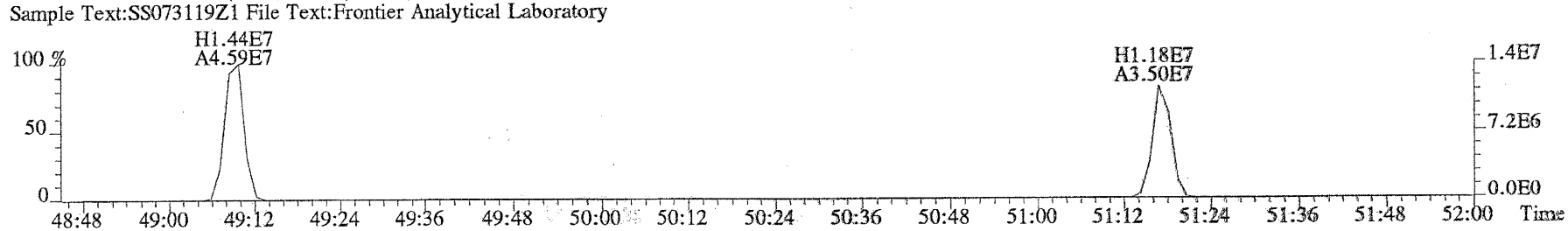
File:31JUL19Z #1-315 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



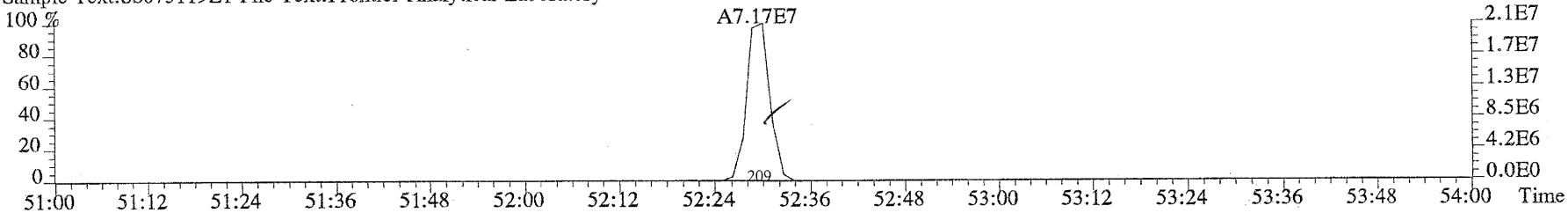
File:31JUL19Z #1-315 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



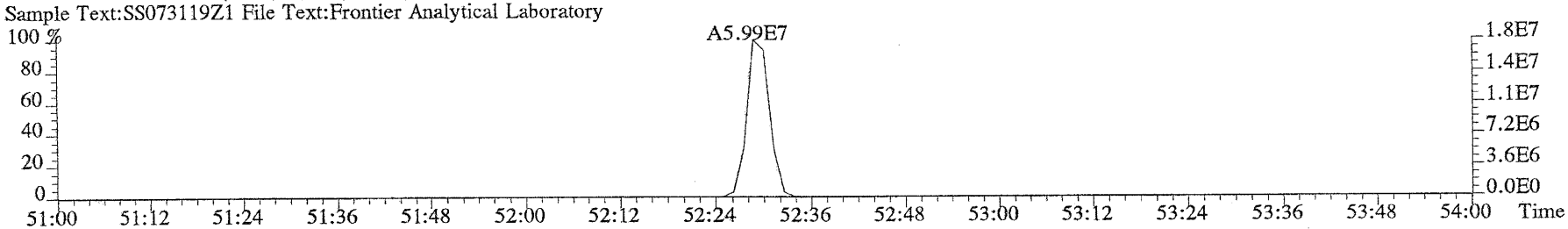
File:31JUL19Z #1-315 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



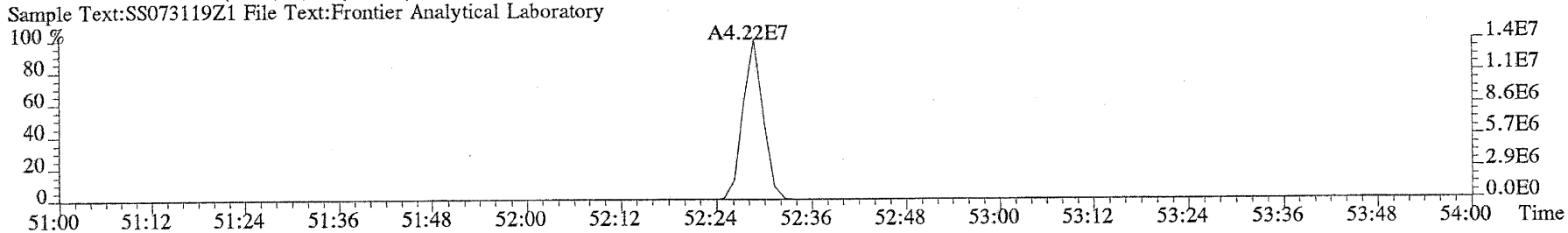
File:31JUL19Z #1-315 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



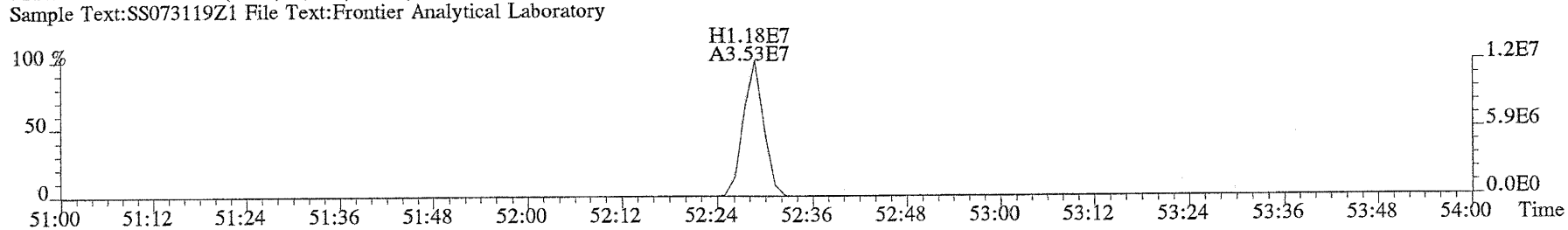
File:31JUL19Z #1-315 Acq:31-JUL-2019 13:22:00 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS073119Z1 File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 13:22:00 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:SS073119Z1 File Text:Frontier Analytical Laboratory



File:31JUL19Z #1-315 Acq:31-JUL-2019 13:22:00 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:SS073119Z1 File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JUL19Z Sam:16 Analysis Date: 1-AUG-19 03:01:17

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.22	2.66-3.60	y	46.5	37.5 - 62.5
PCB-3	M/M+2	3.27	2.66-3.60	y	48.6	37.5 - 62.5
PCB-4	M/M+2	1.52	1.33-1.79	y	49.8	37.5 - 62.5
PCB-15	M/M+2	1.51	1.33-1.79	y	48.6	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	50.6	37.5 - 62.5
PCB-37	M/M+2	1.03	0.88-1.20	y	52.9	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	50.8	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	50.8	37.5 - 62.5
PCB-81	M/M+2	0.80	0.65-0.89	y	51.2	37.5 - 62.5
PCB-104	M+2/M+4	1.55	1.32-1.78	y	50.4	37.5 - 62.5
PCB-105	M+2/M+4	1.58	1.32-1.78	y	50.7	37.5 - 62.5
PCB-114	M+2/M+4	1.57	1.32-1.78	y	52.0	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	50.7	37.5 - 62.5
PCB-123	M+2/M+4	1.54	1.32-1.78	y	51.0	37.5 - 62.5
PCB-126	M+2/M+4	1.54	1.32-1.78	y	51.6	37.5 - 62.5
PCB-155	M+2/M+4	1.25	1.05-1.43	y	49.6	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	49.4	37.5 - 62.5
PCB-157	M+2/M+4	1.27	1.05-1.43	y	49.0	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	49.3	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	49.3	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	52.6	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	51.7	37.5 - 62.5
PCB-202	M+2/M+4	0.87	0.76-1.02	y	50.9	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	53.6	37.5 - 62.5
PCB-206	M+4/M+6	1.34	1.13-1.53	y	51.9	37.5 - 62.5
PCB-208	M+4/M+6	1.38	1.13-1.53	y	53.4	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	50.9	37.5 - 62.5

Analyst: Date: 8/1/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JUL19Z Sam:16 Analysis Date: 1-AUG-19 03:01:17

	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	110	50.0 - 145
13C-PCB-3	M/M+2	3.18	2.66-3.60	y	97.5	50.0 - 145
13C-PCB-4	M/M+2	1.58	1.33-1.79	y	106	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	92.3	50.0 - 145
13C-PCB-19	M/M+2	1.04	0.88-1.20	y	116	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	81.0	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	110	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	80.8	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	82.0	50.0 - 145
13C-PCB-104	M+2/M+4	1.58	1.32-1.78	y	114	50.0 - 145
13C-PCB-105	M+2/M+4	1.56	1.32-1.78	y	86.2	50.0 - 145
13C-PCB-114	M+2/M+4	1.56	1.32-1.78	y	84.1	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	86.1	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	87.4	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	82.5	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	114	50.0 - 145
13C-PCB-156	M+2/M+4	1.31	1.05-1.43	y	94.1	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	92.3	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	92.1	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	93.9	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	106	50.0 - 145
13C-PCB-189	M+2/M+4	1.04	0.89-1.21	y	106	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	110	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	94.3	50.0 - 145
13C-PCB-206	M+2/M+4	0.81	0.65-0.89	y	105	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	98.1	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	114	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	91.6	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	98.7	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	111	75.0 - 125

Analyst: [signature] Date: 8/1/19

FAL ID: ST073119Z2 Filename: 31JUL19Z Sam:16 Acquired: 1-AUG-19 03:01:17 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST07241 9Z1 EndCal: ST07241 9Z2
Results: 31JUL19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	5.28e+07	3.22 y	14:33	1.19	46.5		2.50	-	-	*	-
13C-PCB-1	9.51e+07	3.17 y	14:32	1.02	110		2.50				110
PCB-3	4.58e+07	3.27 y	16:59	1.18	48.6		2.50	-	-	*	-
13C-PCB-3	8.01e+07	3.18 y	16:58	0.97	97.5		2.50				97.5
PCB-4	3.44e+07	1.52 y	18:13	1.04	49.8		2.50	-	-	*	-
13C-PCB-4	6.62e+07	1.58 y	18:12	0.74	106		2.50				106
PCB-15	3.78e+07	1.51 y	23:45	1.03	48.6		2.50	-	-	*	-
13C-PCB-15	7.54e+07	1.60 y	23:44	0.96	92.3		2.50				92.3
PCB-19	2.91e+07	1.04 y	22:06	1.11	50.6		2.50	-	-	*	-
13C-PCB-19	5.19e+07	1.04 y	22:05	0.53	116		2.50				116
13C-PCB-9	8.49e+07	1.58 y	19:53	-	109		2.50				
PCB-37	2.98e+07	1.03 y	30:25	1.04	52.9		2.50	-	-	*	-
13C-PCB-37	5.44e+07	1.07 y	30:23	1.57	81.0		2.50				81.0
PCB-54	3.86e+07	0.79 y	25:39	1.16	50.8		2.50	-	-	*	-
13C-PCB-54	6.54e+07	0.82 y	25:38	1.38	110		2.50				110
PCB-104	2.95e+07	1.55 y	30:04	1.08	50.4		2.50	-	-	*	-
13C-PCB-104	5.41e+07	1.58 y	30:03	1.11	114		2.50				114
13C-PCB-28	6.70e+07	1.05 y	26:42	1.71	91.6		2.50				91.6
13C-PCB-52	4.29e+07	0.81 y	28:57	-	112		2.50				
PCB-81	2.44e+07	0.80 y	36:10	1.06	51.2		2.50	-	-	*	-
13C-PCB-81	4.48e+07	0.81 y	36:08	1.50	82.0		2.50				82.0
PCB-77	2.39e+07	0.80 y	36:44	1.02	50.8		2.50	-	-	*	-
13C-PCB-77	4.61e+07	0.80 y	36:42	1.57	80.8		2.50				80.8
PCB-155	2.98e+07	1.25 y	34:13	1.02	49.6		2.50	-	-	*	-
13C-PCB-155	5.87e+07	1.27 y	34:12	1.42	114		2.50				114
13C-PCB-111	4.64e+07	1.59 y	36:17	1.29	98.7		2.50				98.7
13C-PCB-101	3.64e+07	1.60 y	34:39	-	111		2.50				
PCB-123	2.22e+07	1.54 y	38:22	1.03	51.0		2.50	-	-	*	-
13C-PCB-123	4.20e+07	1.59 y	38:20	1.40	87.4		2.50				87.4
PCB-118	2.35e+07	1.54 y	38:32	1.02	50.7		2.50	-	-	*	-
13C-PCB-118	4.54e+07	1.58 y	38:30	1.53	86.1		2.50				86.1
PCB-114	2.21e+07	1.57 y	39:08	1.01	52.0		2.50	-	-	*	-
13C-PCB-114	4.18e+07	1.56 y	39:08	1.45	84.1		2.50				84.1
PCB-105	2.20e+07	1.58 y	39:57	1.02	50.7		2.50	-	-	*	-
13C-PCB-105	4.27e+07	1.56 y	39:56	1.44	86.2		2.50				86.2
PCB-126	2.04e+07	1.54 y	42:04	1.02	51.6		2.50	-	-	*	-
13C-PCB-126	3.89e+07	1.60 y	42:04	1.37	82.5		2.50				82.5
PCB-167	2.14e+07	1.25 y	43:26	1.07	49.3		2.50	-	-	*	-
13C-PCB-167	4.06e+07	1.29 y	43:25	1.28	92.1		2.50				92.1
PCB-156	2.17e+07	1.26 y	44:40	1.10	49.4		2.50	-	-	*	-
13C-PCB-156	4.00e+07	1.31 y	44:39	1.24	94.1		2.50				94.1
PCB-157	2.21e+07	1.27 y	44:55	1.06	49.0		2.50	-	-	*	-
13C-PCB-157	4.24e+07	1.30 y	44:54	1.34	92.3		2.50				92.3
PCB-169	2.10e+07	1.27 y	46:47	1.06	49.3		2.50	-	-	*	-
13C-PCB-169	4.01e+07	1.27 y	46:46	1.24	93.9		2.50				93.9
PCB-188	2.50e+07	1.05 y	39:44	1.02	52.6		2.50	-	-	*	-
13C-PCB-188	4.68e+07	1.06 y	39:42	1.29	106		2.50				106
PCB-189	2.00e+07	1.05 y	48:26	0.99	51.7		2.50	-	-	*	-
13C-PCB-189	3.91e+07	1.04 y	48:26	1.07	106		2.50				106
PCB-202	2.08e+07	0.87 y	44:50	0.99	50.9		2.50	-	-	*	-
13C-PCB-202	4.13e+07	0.91 y	44:49	1.09	110		2.50				110
13C-PCB-178	3.07e+07	1.06 y	42:21	0.81	111		2.50				111
13C-PCB-138	3.44e+07	1.29 y	41:34	-	107		2.50				

FAL ID: ST073119Z2 Filename: 31JUL19Z Sam:16 Acquired: 1-AUG-19 03:01:17 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 31JUL19Z GC Column: DB1MS Amount: 1.000

PCB-205	2.26e+07	0.89	y	50:06	1.02	53.6	2.50	-	-	*	-
13C-PCB-205	4.13e+07	0.91	y	50:05	1.40	94.3	2.50				94.3
PCB-208	2.18e+07	1.38	y	49:10	0.98	53.4	2.50	-	-	*	-
13C-PCB-208	4.18e+07	0.81	y	49:09	1.36	98.1	2.50				98.1
PCB-206	1.71e+07	1.34	y	51:18	0.99	51.9	2.50	-	-	*	-
13C-PCB-206	3.30e+07	0.81	y	51:17	1.01	105	2.50				105
PCB-209	2.40e+07	1.19	y	52:30	1.09	50.9	2.50	-	-	*	-
13C-PCB-209	4.33e+07	1.21	y	52:29	1.21	114	2.50				114
13C-PCB-194	3.13e+07	0.91	y	49:50	-	102	2.50				

Analyst: J Date: 8/1/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:31JUL19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

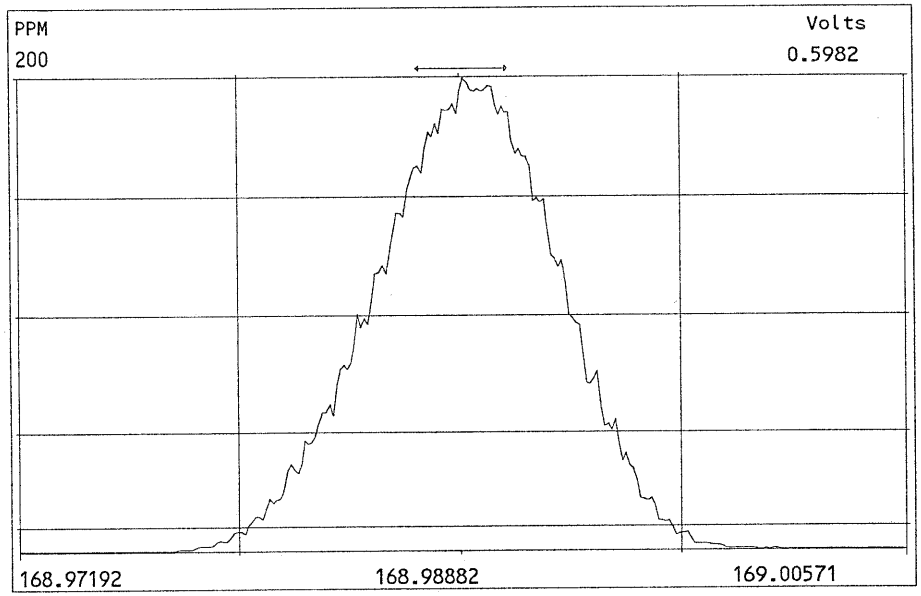
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
31JUL19Z	1	ST073119Z1	1668 CS3 R181204D	31-JUL-19 12:23:40	ST073119Z1	ST073119Z2	BS
31JUL19Z	2	SS073119Z1	Daily 209 190408A	31-JUL-19 13:22:00	ST073119Z1	ST073119Z2	BS
31JUL19Z	3	04989-001-0001-OPR	OPR	31-JUL-19 14:21:47	ST073119Z1	ST073119Z2	BS
31JUL19Z	4	04989-001-0001-MB	Method Blank	31-JUL-19 15:20:08	ST073119Z1	ST073119Z2	BS
31JUL19Z	5	12510-001-0001-SA	LDW-Y2-SC-S010-TB	31-JUL-19 16:18:55	ST073119Z1	ST073119Z2	BS
31JUL19Z	6	12510-002-0001-SA	LDW-Y2-SU-S010-TB	31-JUL-19 17:17:16	ST073119Z1	ST073119Z2	BS
31JUL19Z	7	12510-003-0001-SA	LDW-Y2-IN-S010-TB	31-JUL-19 18:15:38	ST073119Z1	ST073119Z2	BS
31JUL19Z	8	12510-004-0001-SA	LDW-Y2-SU-ENR+AC-CA-S010	31-JUL-19 19:13:59	ST073119Z1	ST073119Z2	BS
31JUL19Z	9	12510-005-0001-SA	LDW-Y2-SU-ENR+AC-CB-S010	31-JUL-19 20:12:46	ST073119Z1	ST073119Z2	BS
31JUL19Z	10	12510-006-0001-SA	LDW-Y2-SU-ENR+AC-CC-S010	31-JUL-19 21:11:07	ST073119Z1	ST073119Z2	BS
31JUL19Z	11	12510-007-0001-SA	LDW-Y2-SU-ENR+AC-CD-S010	31-JUL-19 22:09:29	ST073119Z1	ST073119Z2	BS
31JUL19Z	12	12510-008-0001-SA	LDW-Y2-SU-ENR+AC-CE-S010	31-JUL-19 23:07:50	ST073119Z1	ST073119Z2	BS
31JUL19Z	13	12510-009-0001-SA	LDW-Y2-SU-ENR-CA-S010	1-AUG-19 00:06:11	ST073119Z1	ST073119Z2	BS
31JUL19Z	14	12510-010-0001-SA	LDW-Y2-SU-ENR-CB-S010	1-AUG-19 01:04:32	ST073119Z1	ST073119Z2	BS
31JUL19Z	15	SB073119Z1	Solvent Blank	1-AUG-19 02:02:53	ST073119Z1	ST073119Z2	BS
31JUL19Z	16	ST073119Z2	1668 CS3 R181204D	1-AUG-19 03:01:17	ST073119Z1	ST073119Z2	BS

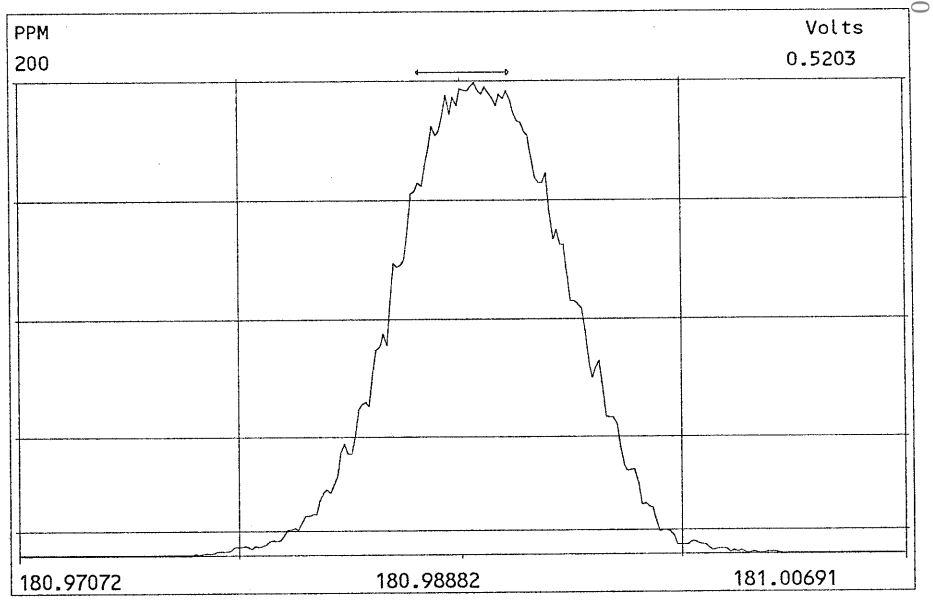
8/1/19

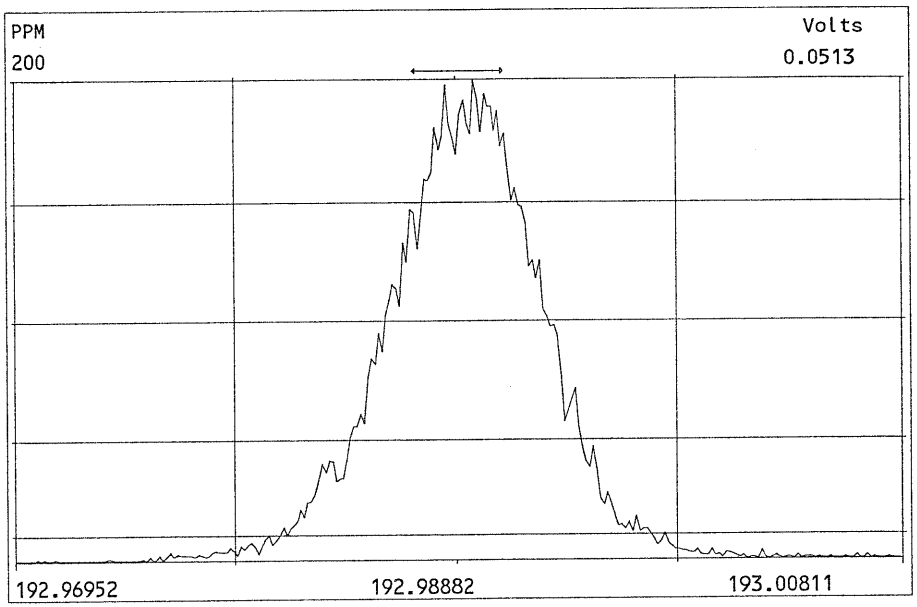
Data Backed Up:_____

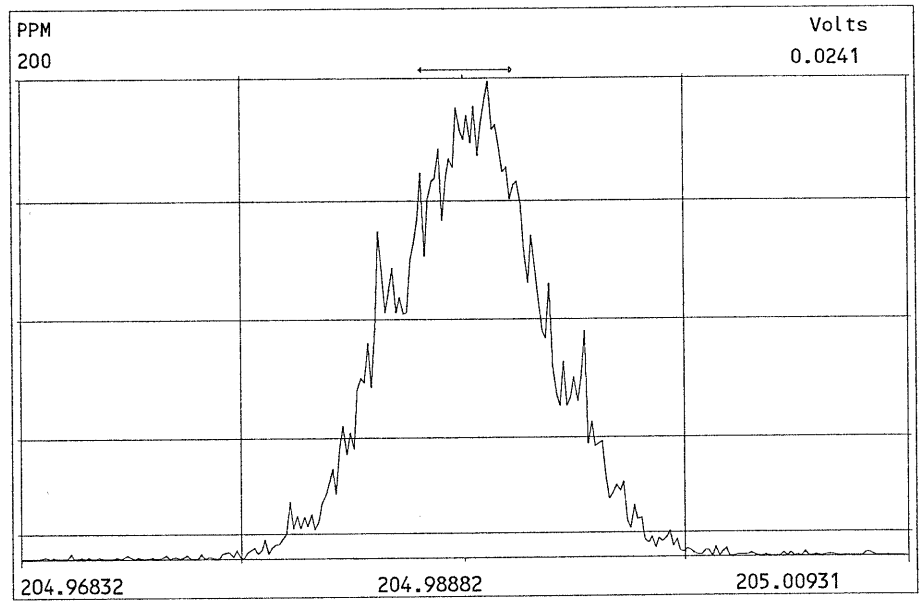
Date:_____

Peak Locate Examination:31-JUL-2019:12:21 File:31JUL19Z
Experiment:1668PCB Function:1 Reference:PFK

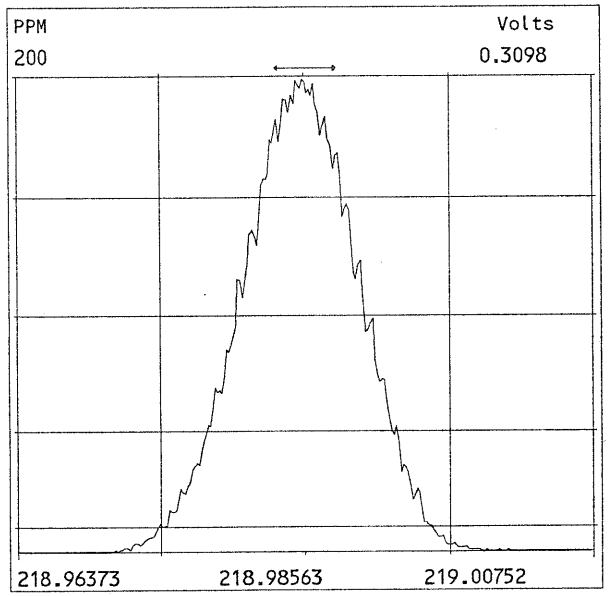


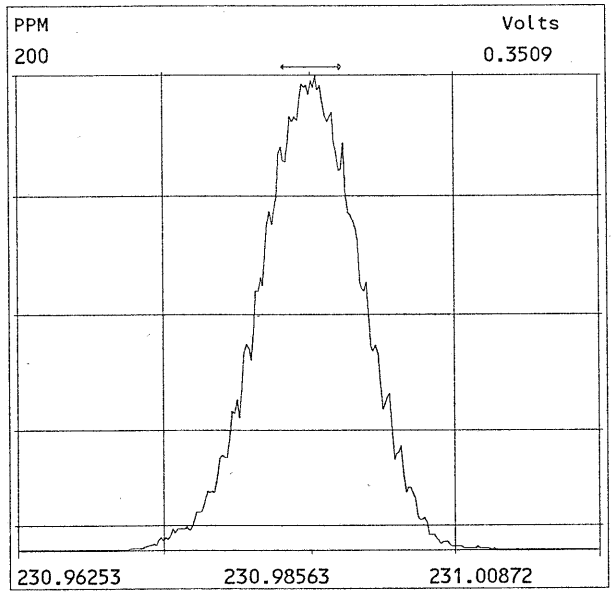


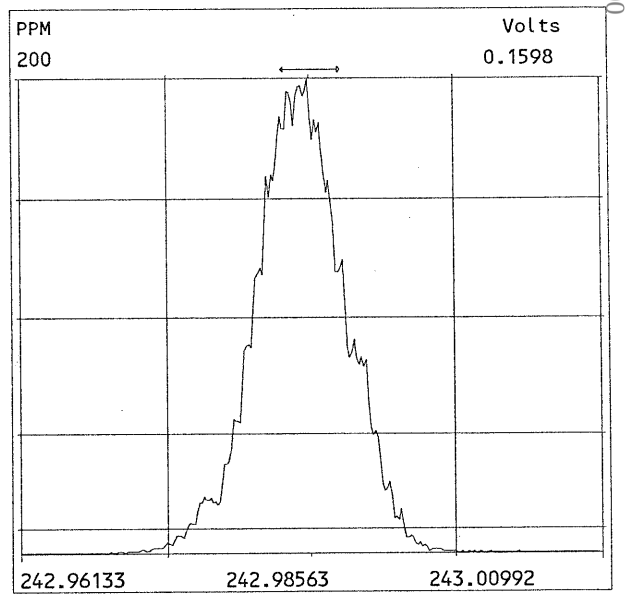


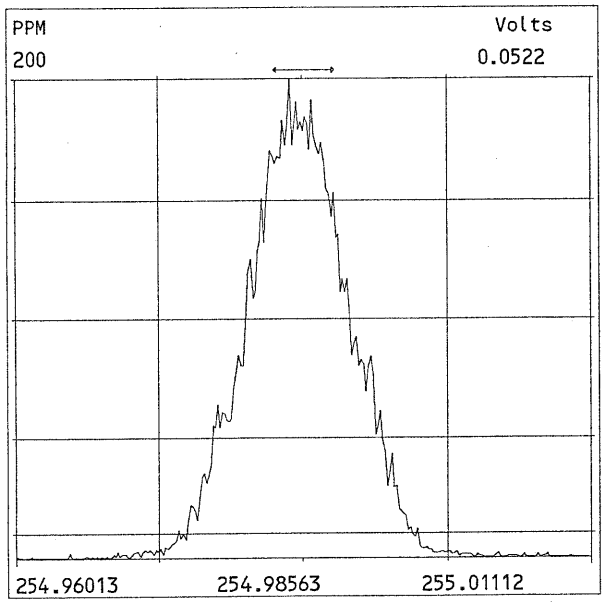


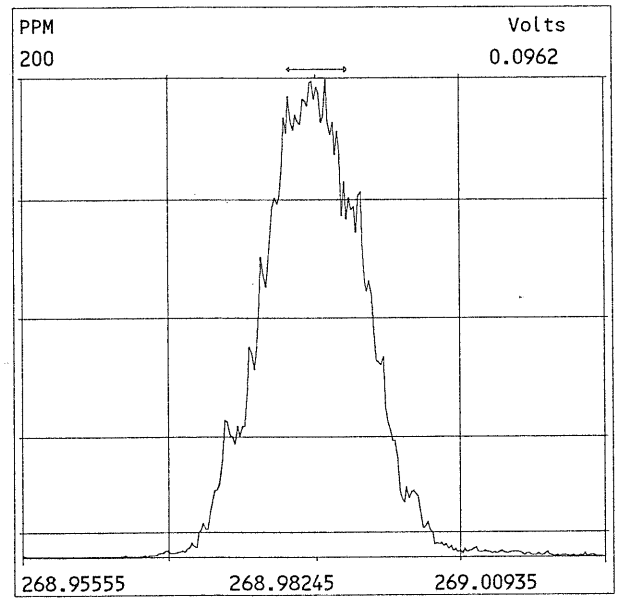
Peak Locate Examination:31-JUL-2019:12:21 File:31JUL19Z
Experiment:1668PCB Function:2 Reference:PFK

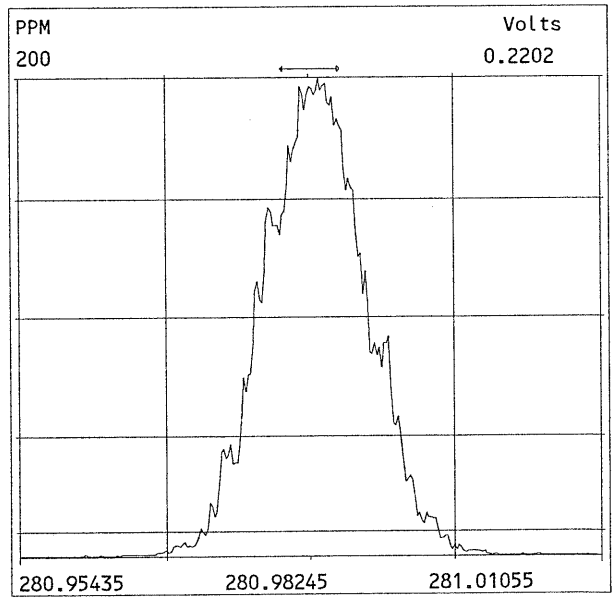




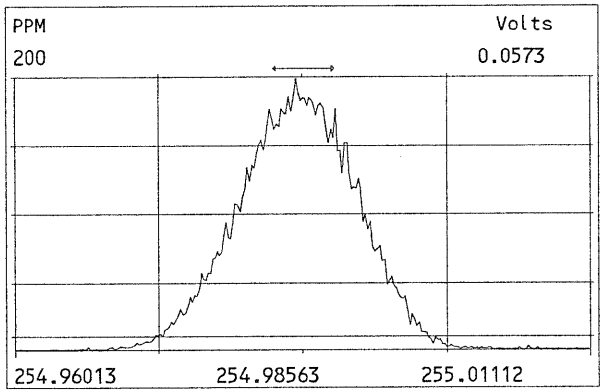


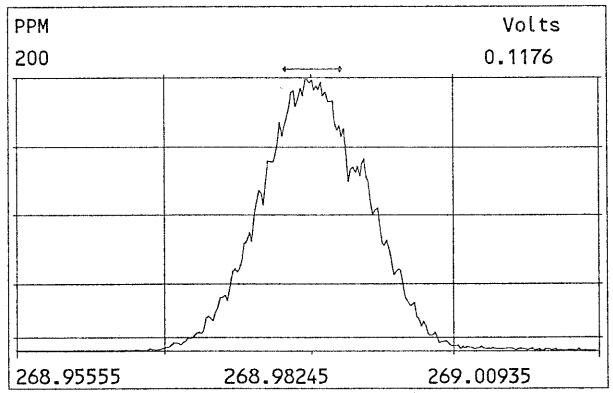


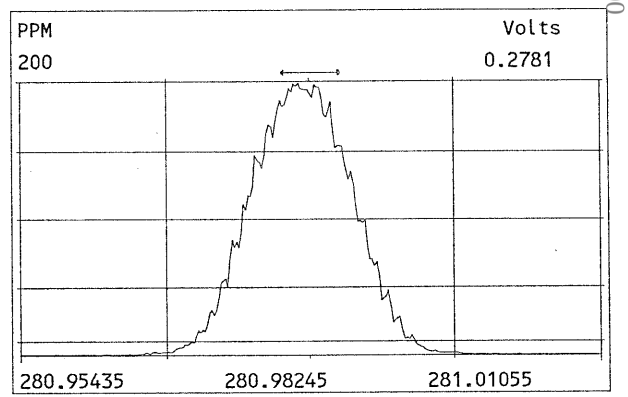


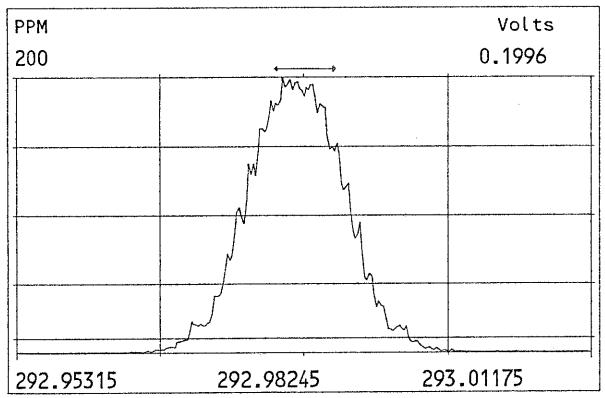


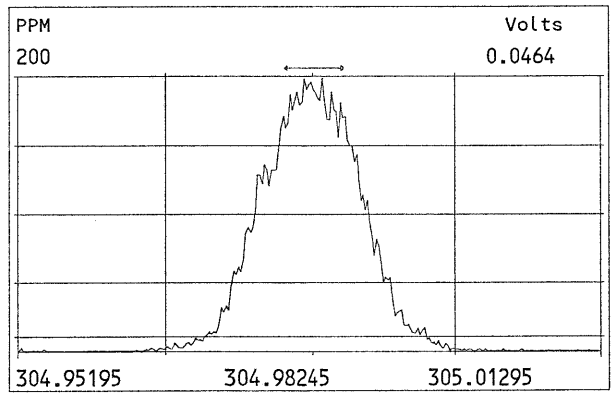
Peak Locate Examination:31-JUL-2019:12:21 File:31JUL19Z
Experiment:1668PCB Function:3 Reference:PFK

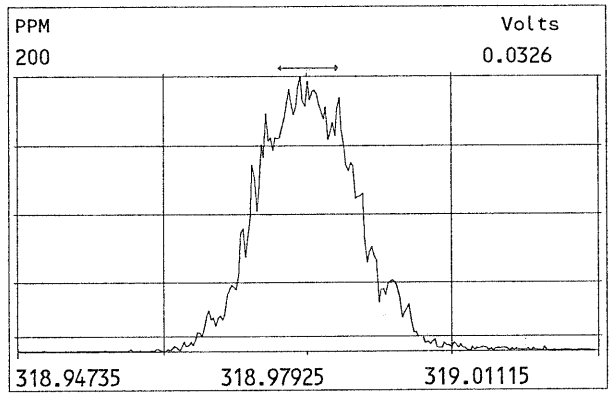


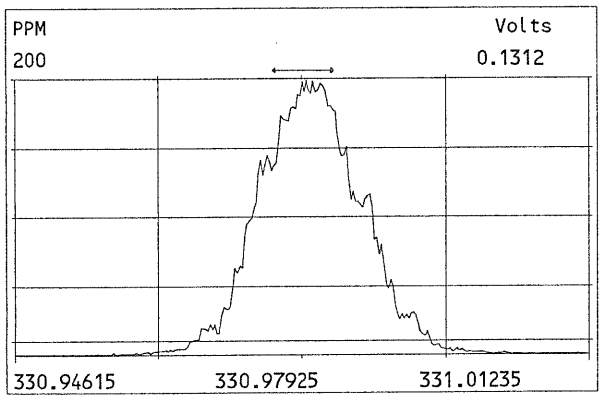


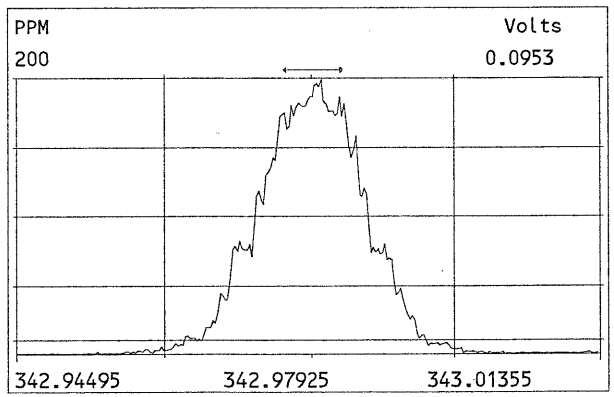




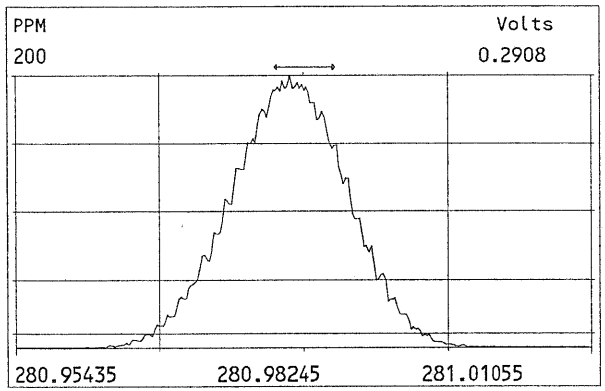


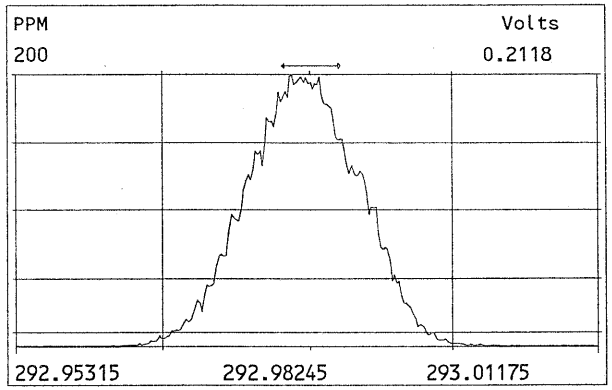


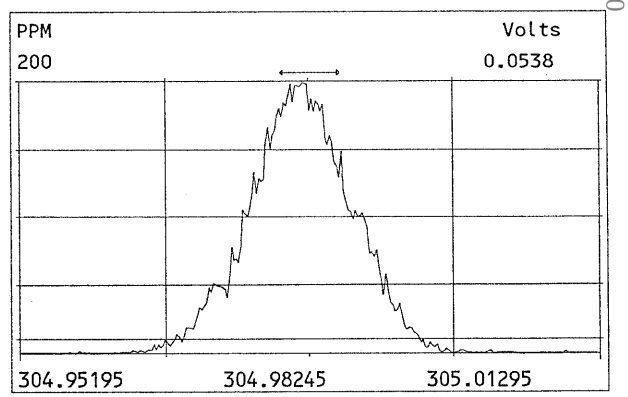


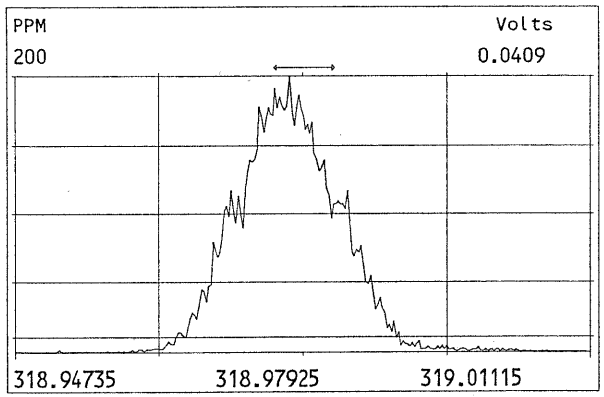


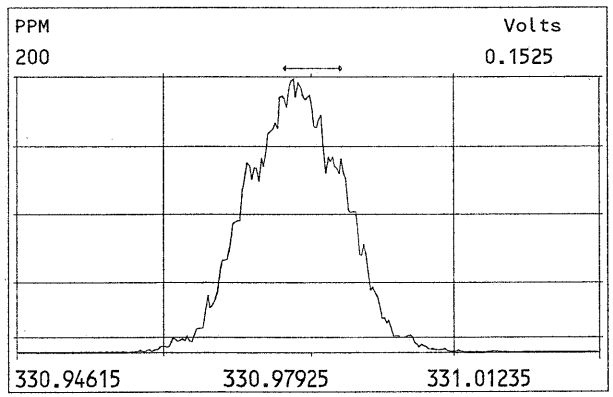
Peak Locate Examination:31-JUL-2019:12:22 File:31JUL19Z
Experiment:1668PCB Function:4 Reference:PFK

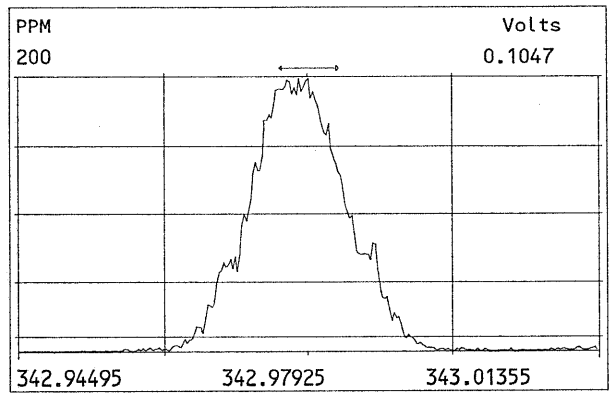


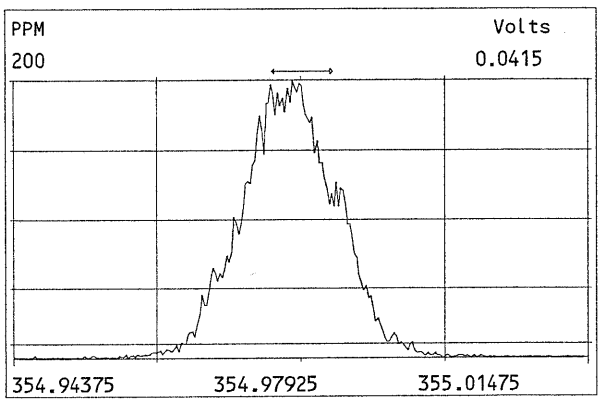


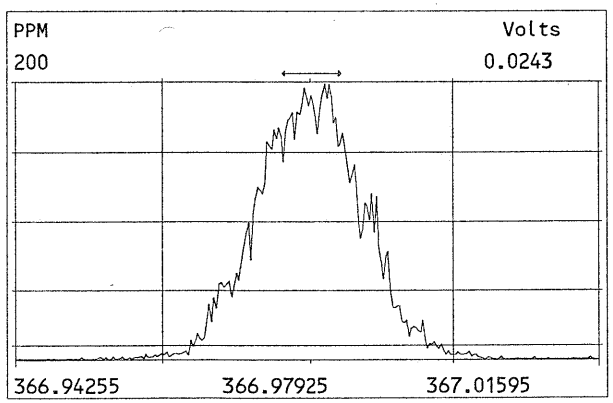


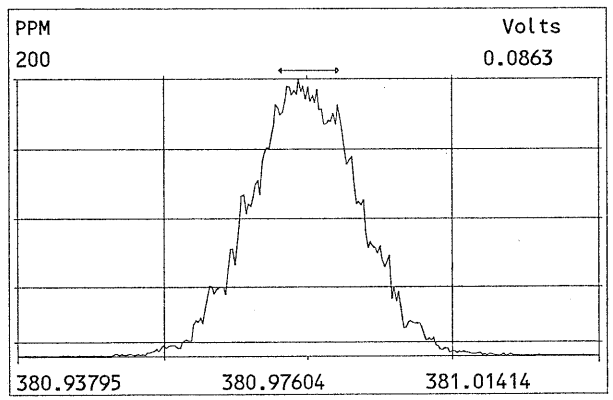




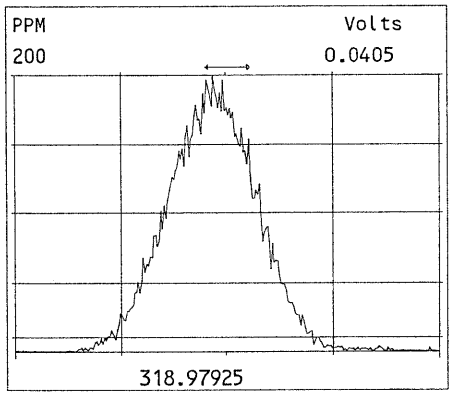


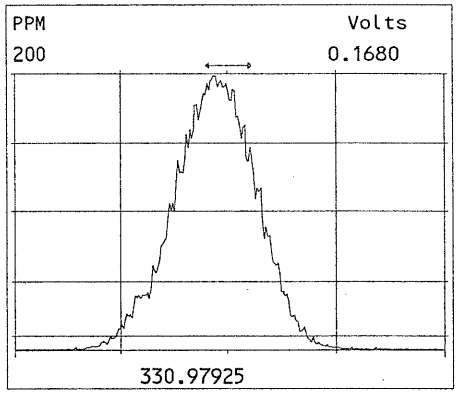


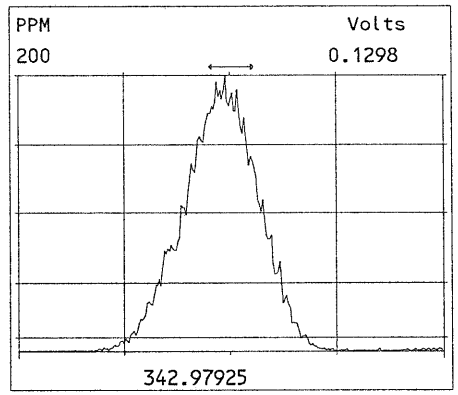


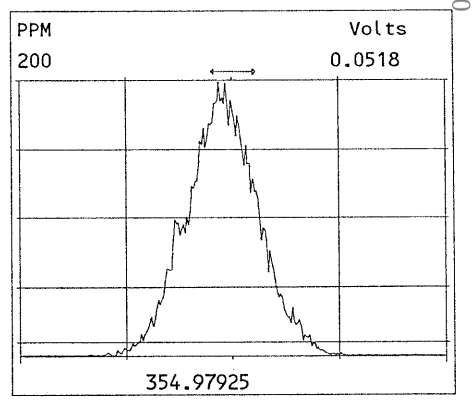


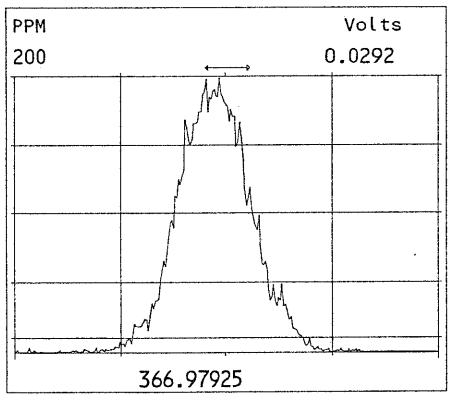
Peak Locate Examination:31-JUL-2019:12:22 File:31JUL19Z
Experiment:1668PCB Function:5 Reference:PFK

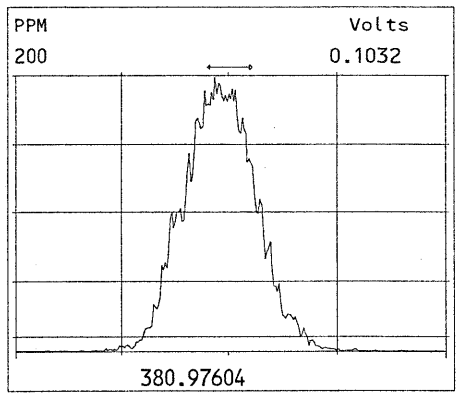


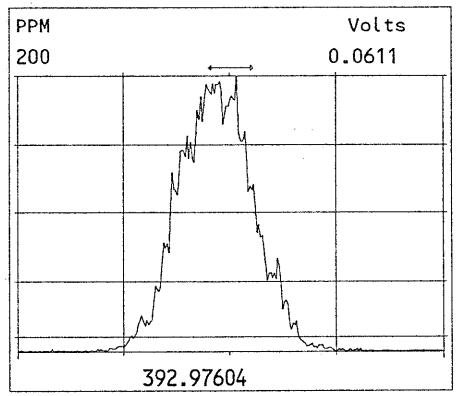


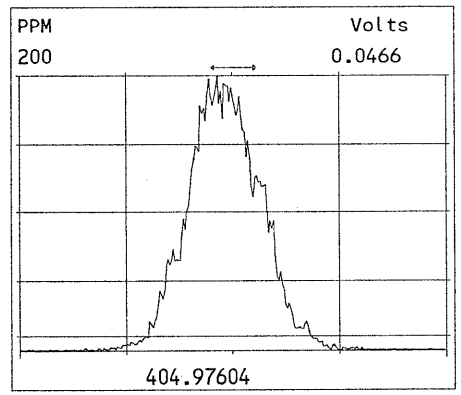


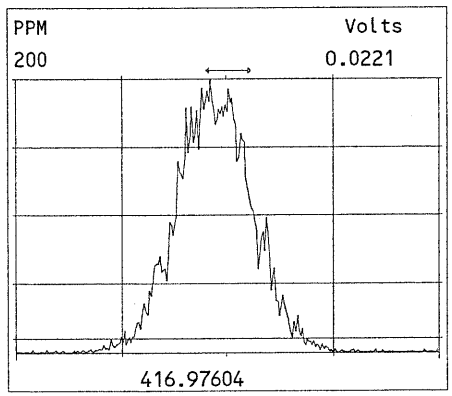


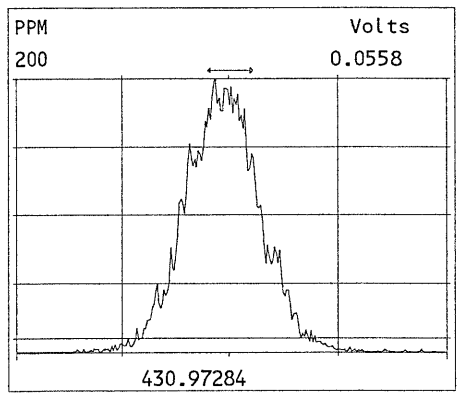


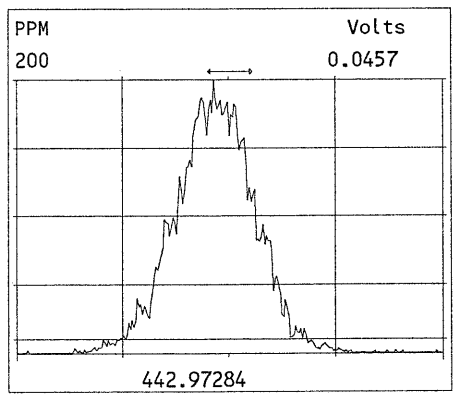




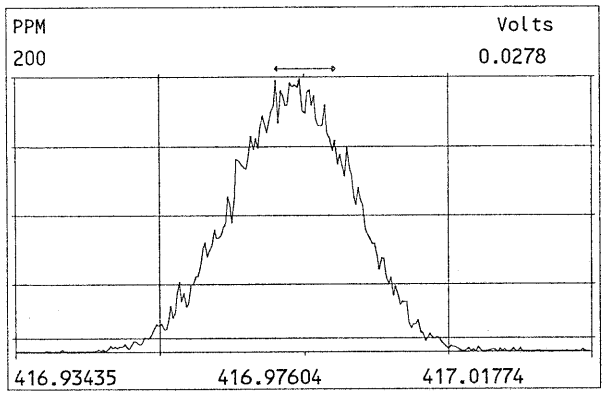


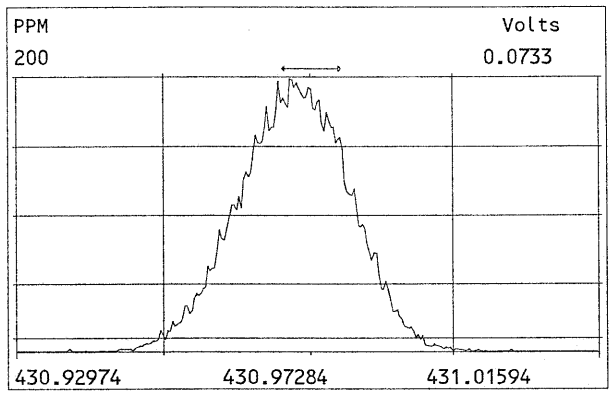


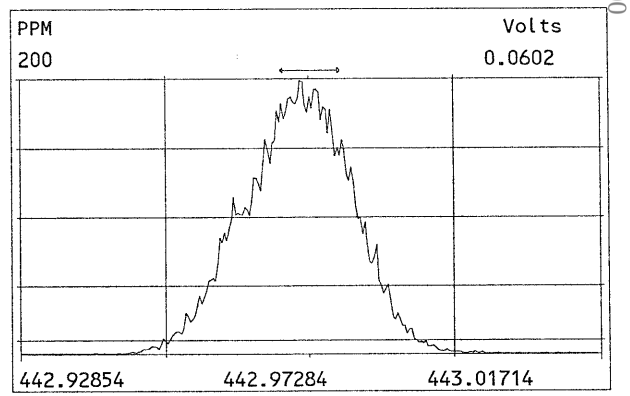


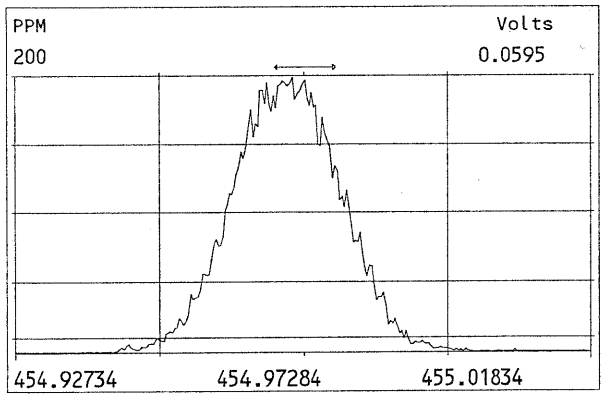


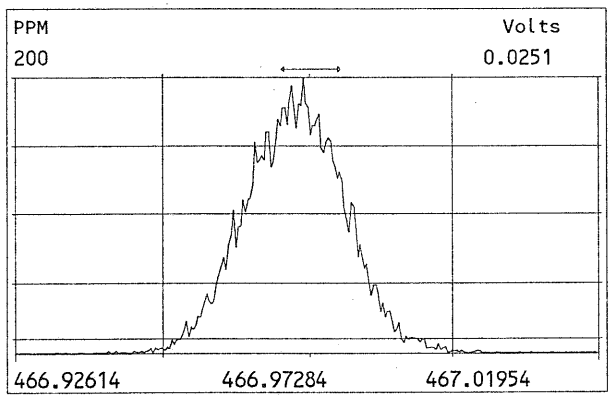
Peak Locate Examination:31-JUL-2019:12:23 File:31JUL19Z
Experiment:1668PCB Function:6 Reference:PFK

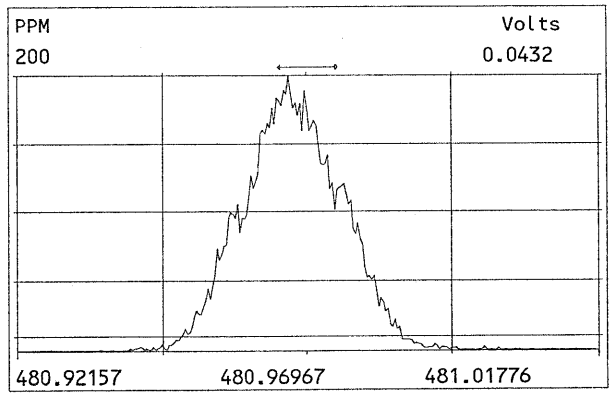


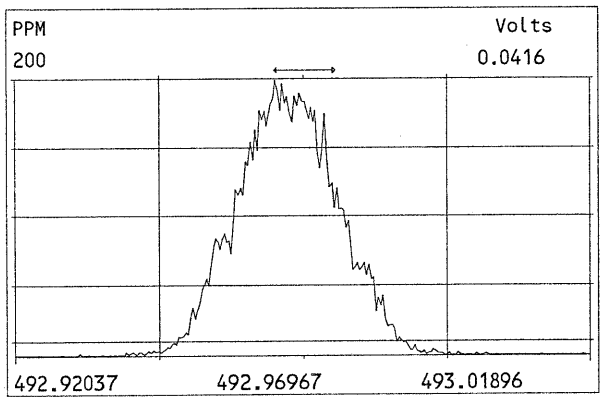


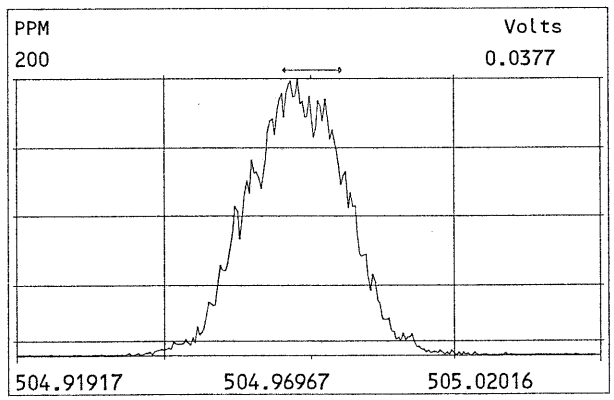


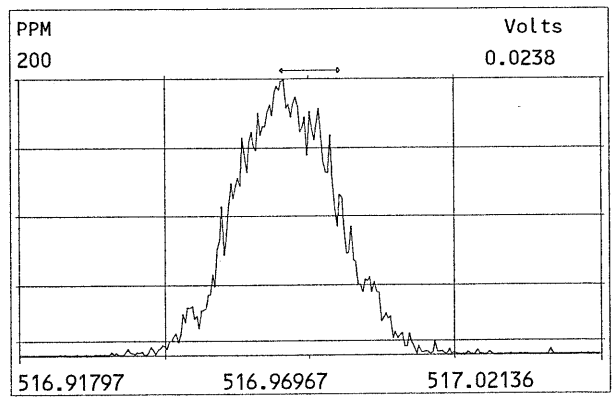




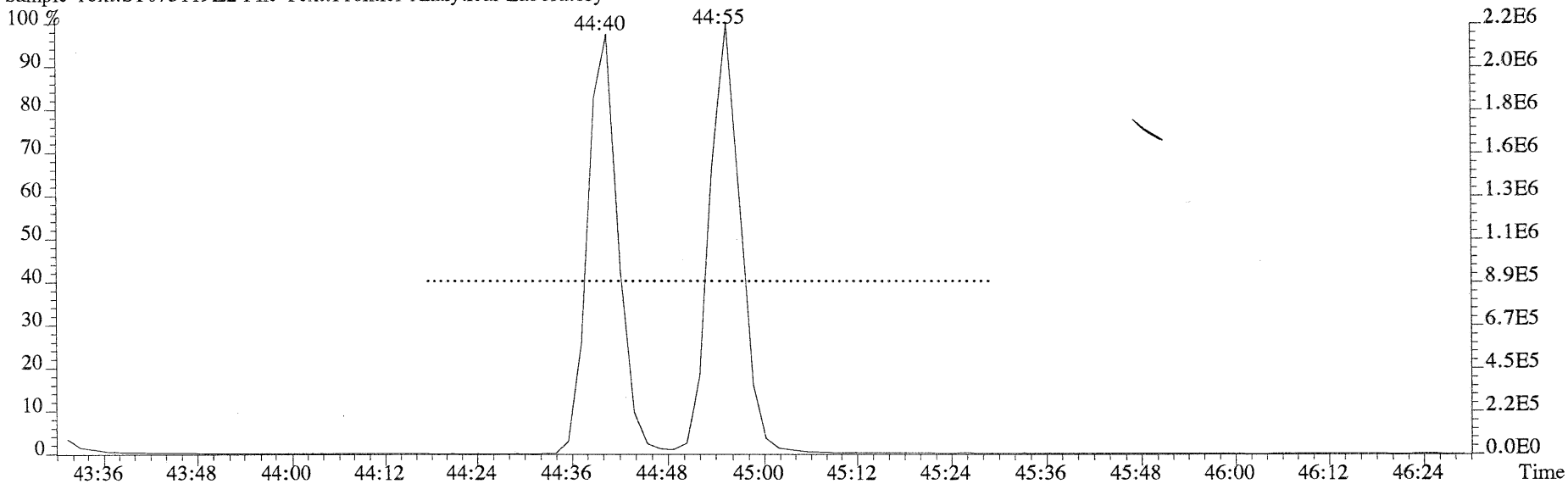




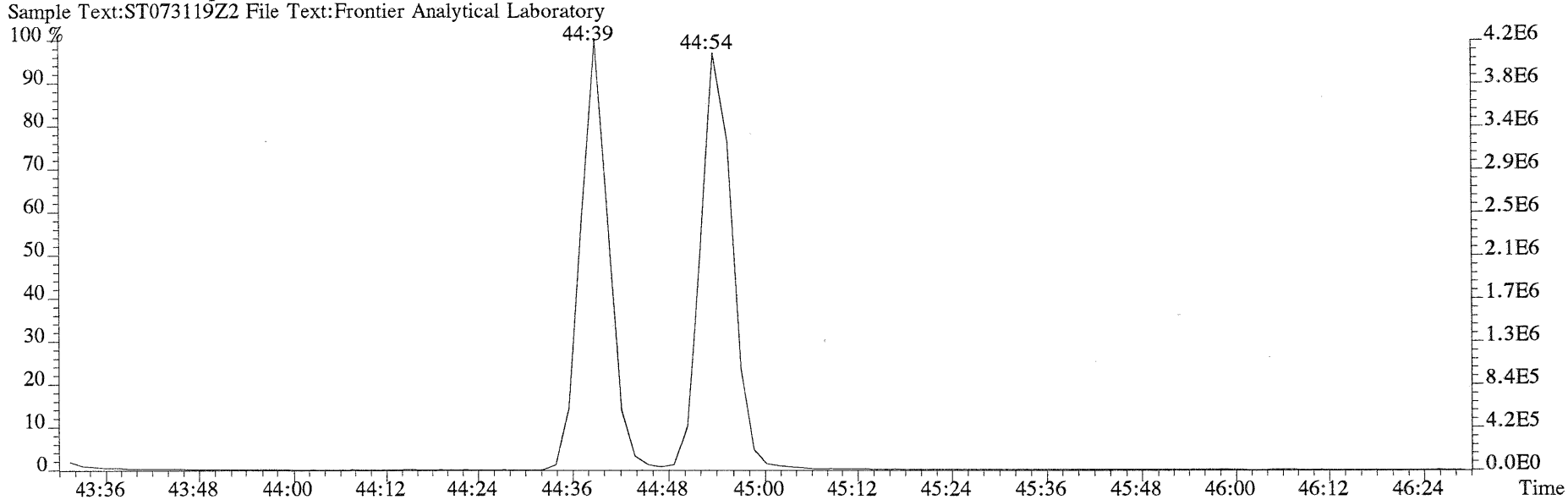




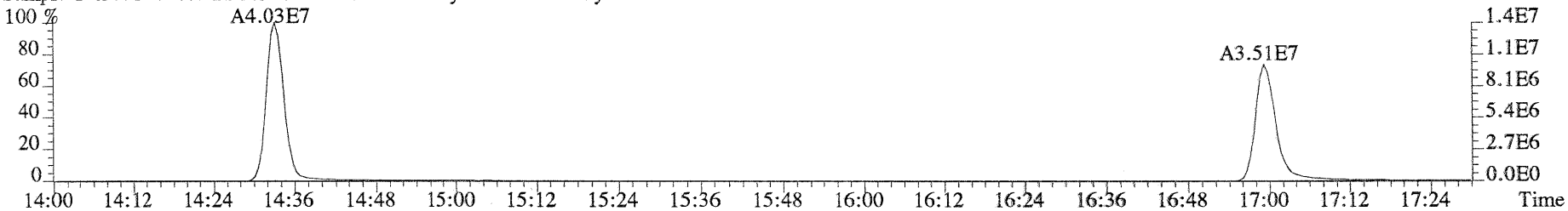
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



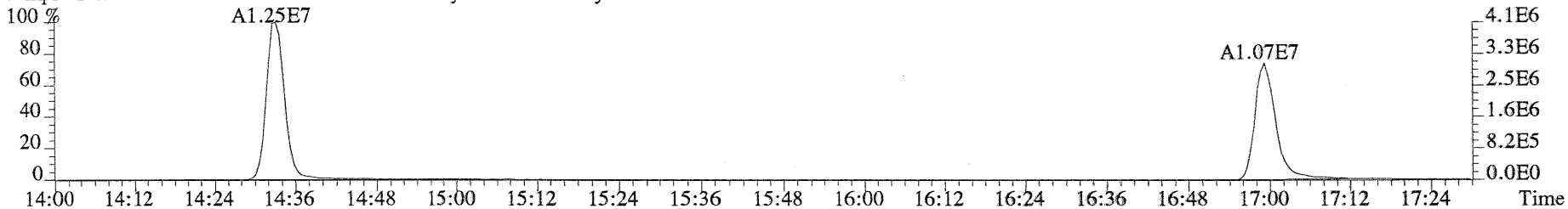
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



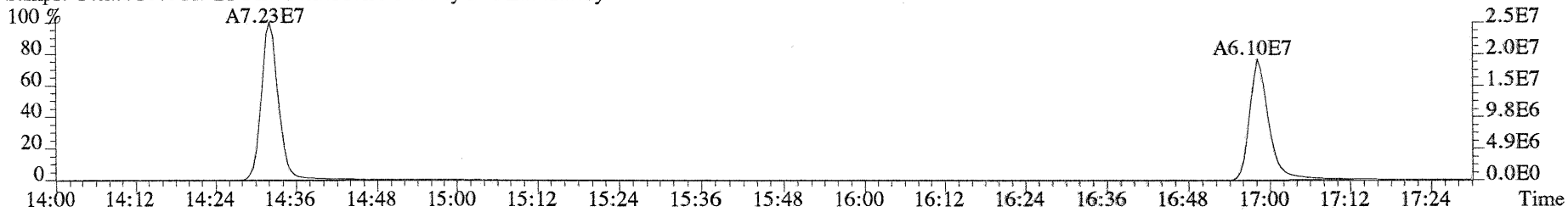
File:31JUL19Z #1-784 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



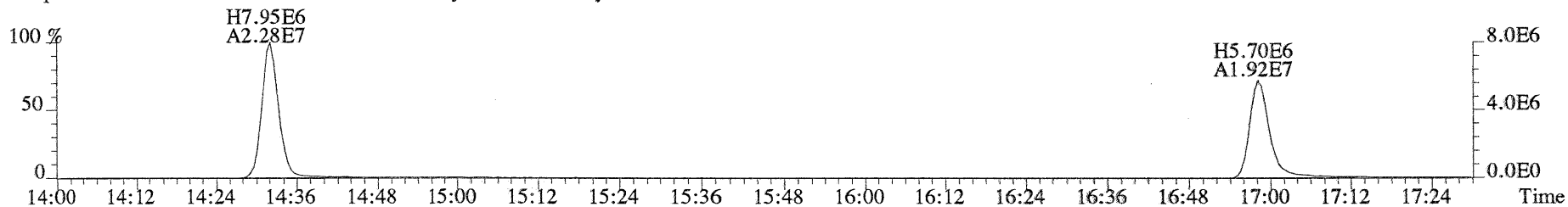
File:31JUL19Z #1-784 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



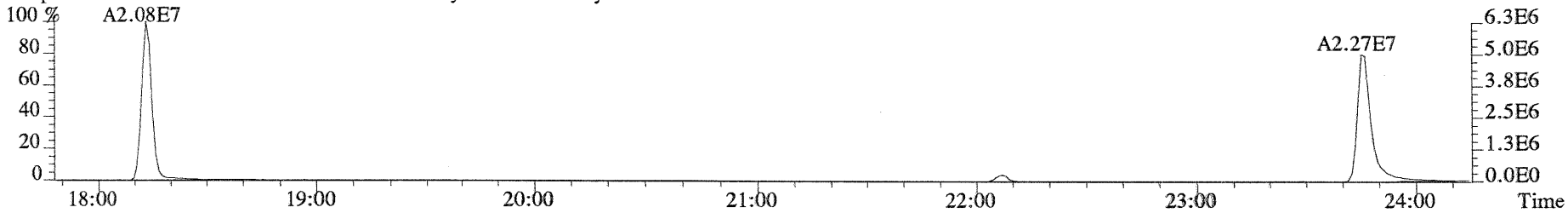
File:31JUL19Z #1-784 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



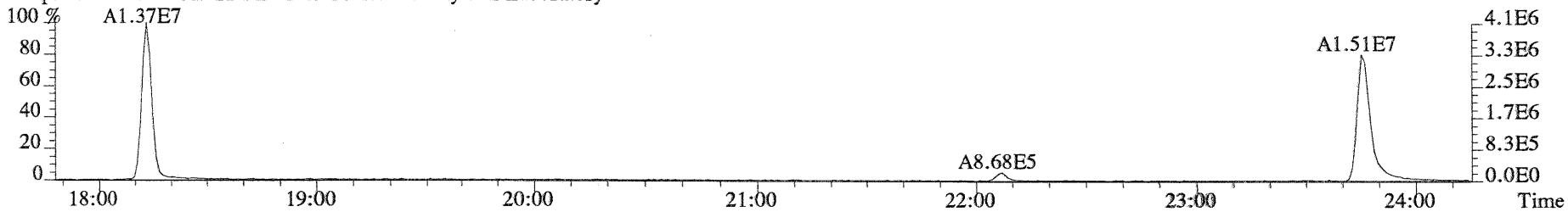
File:31JUL19Z #1-784 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



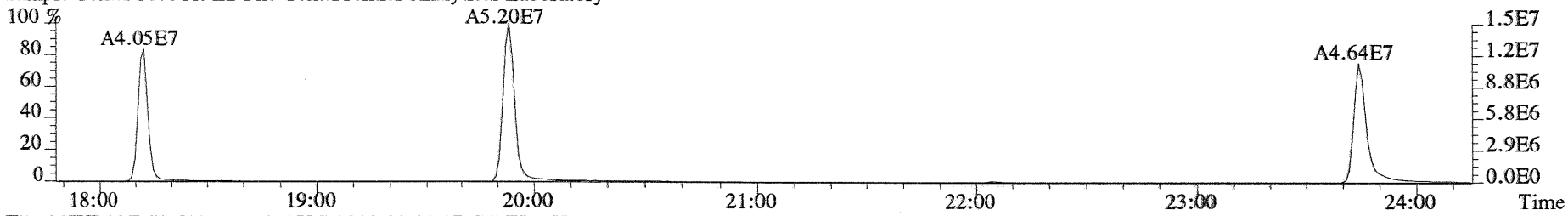
File:31JUL19Z #1-520 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



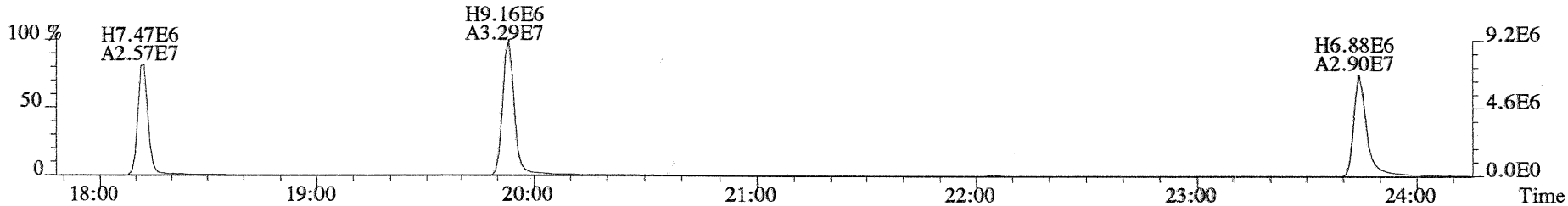
File:31JUL19Z #1-520 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



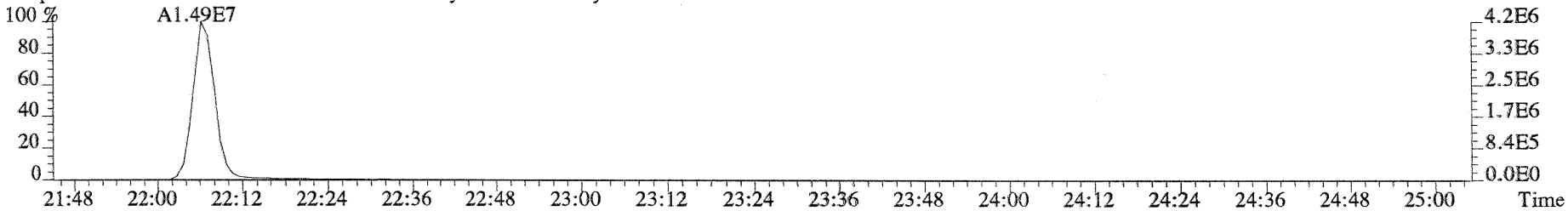
File:31JUL19Z #1-520 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



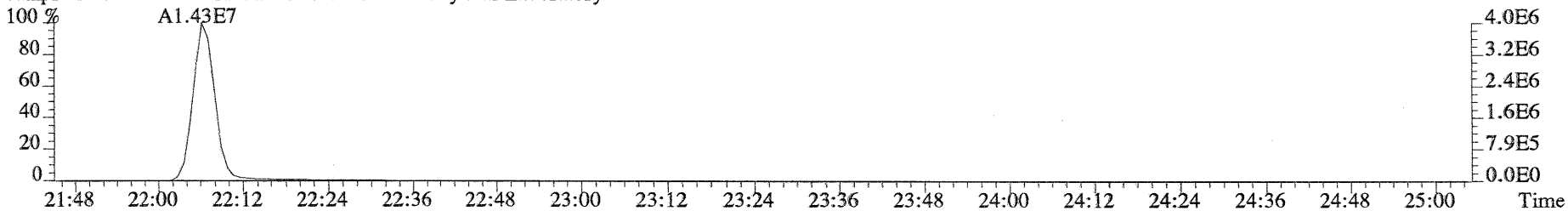
File:31JUL19Z #1-520 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



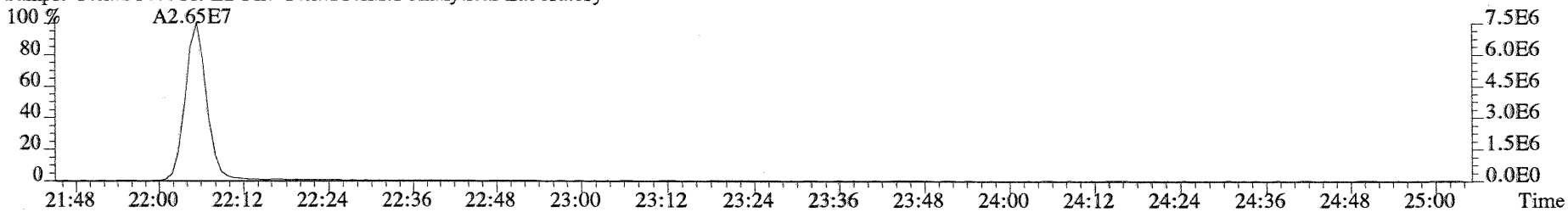
File:31JUL19Z #1-520 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



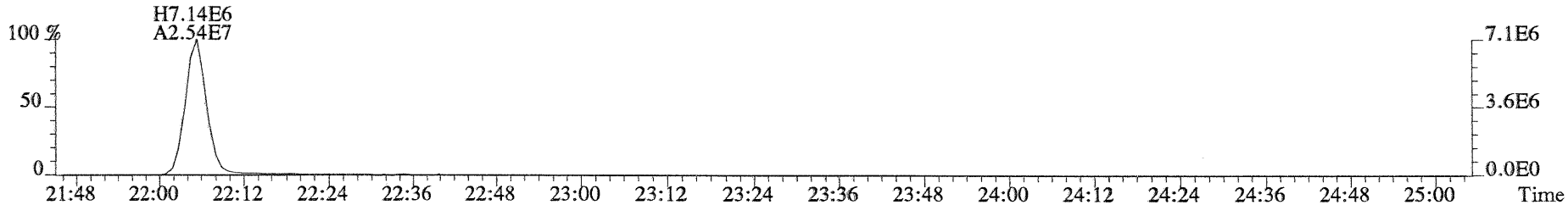
File:31JUL19Z #1-520 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



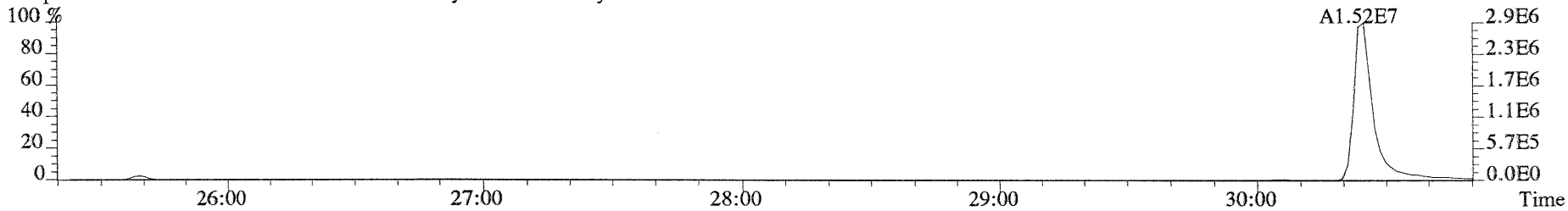
File:31JUL19Z #1-520 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



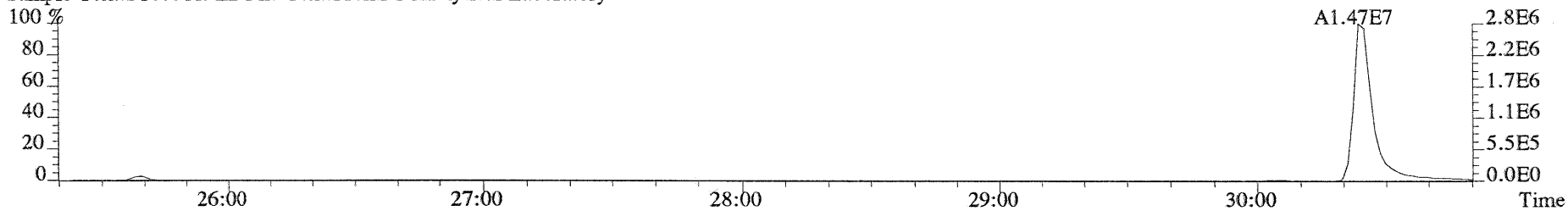
File:31JUL19Z #1-520 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



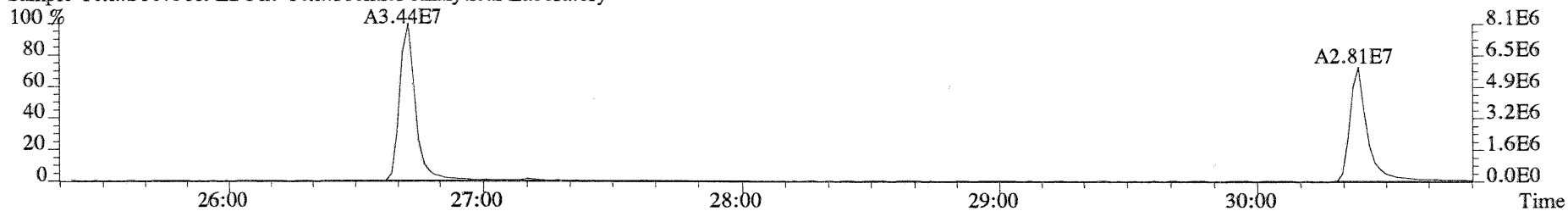
File:31JUL19Z #1-401 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



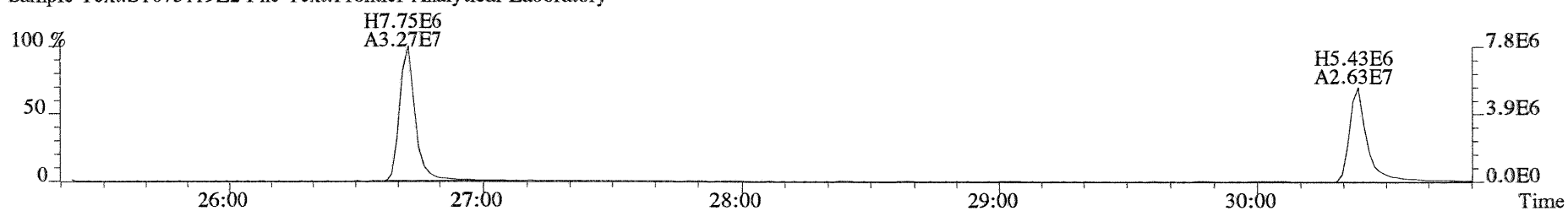
File:31JUL19Z #1-401 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



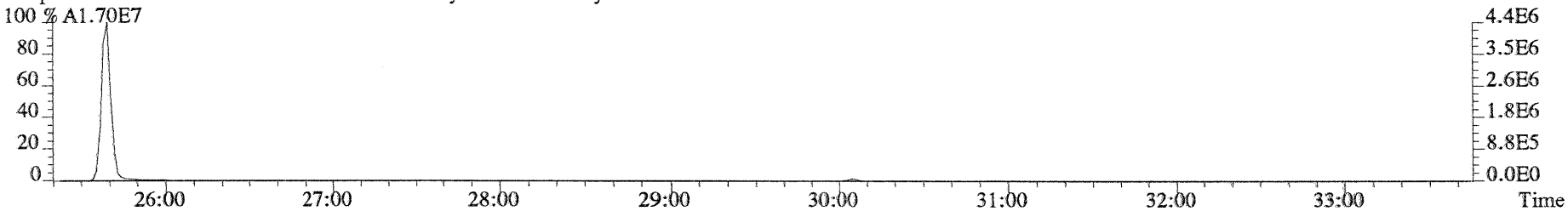
File:31JUL19Z #1-401 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



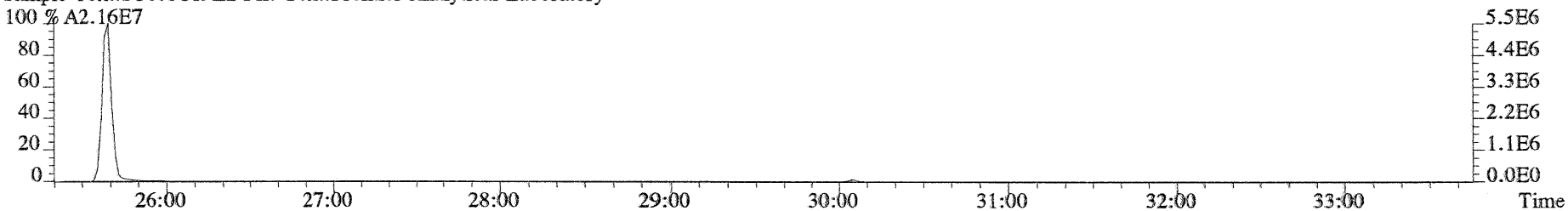
File:31JUL19Z #1-401 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



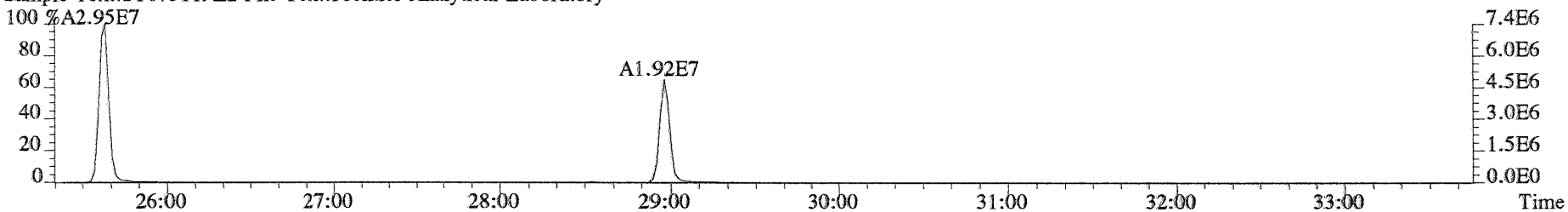
File:31JUL19Z #1-401 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



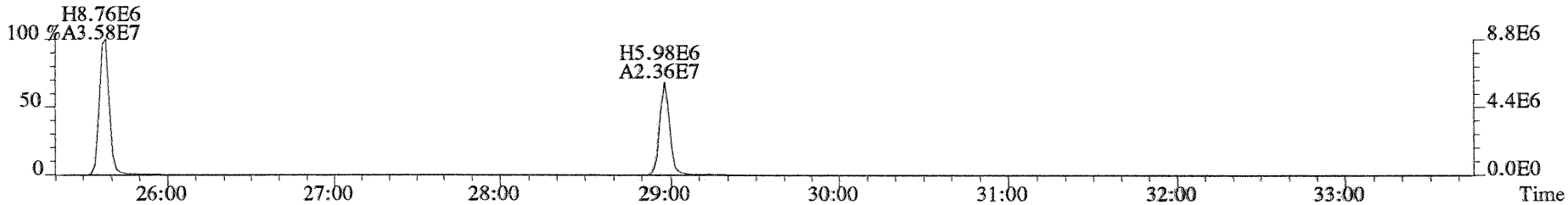
File:31JUL19Z #1-401 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



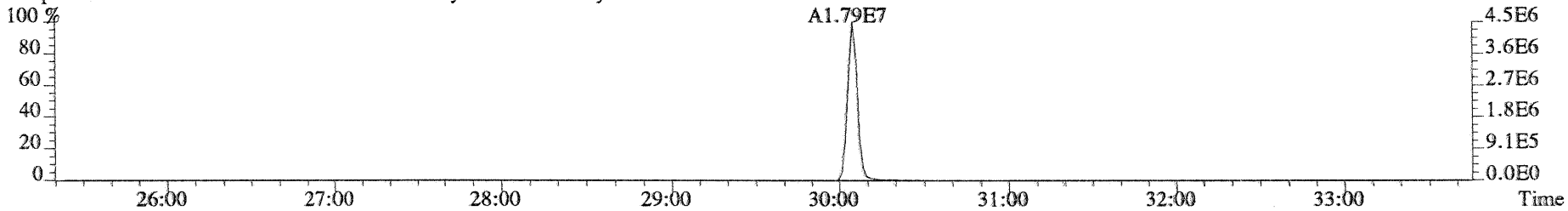
File:31JUL19Z #1-401 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



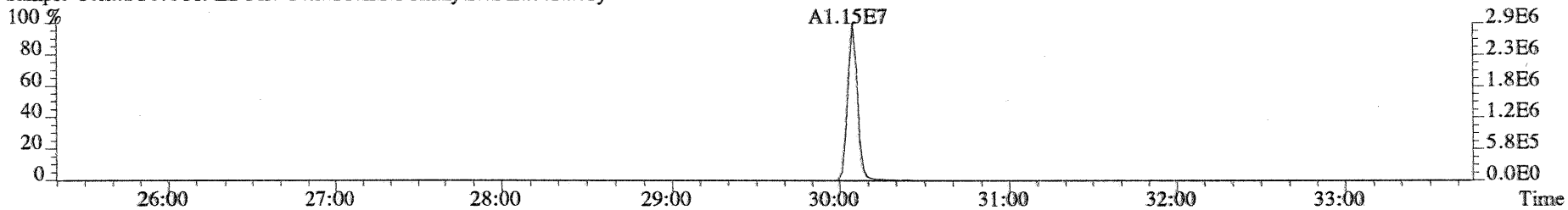
File:31JUL19Z #1-401 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



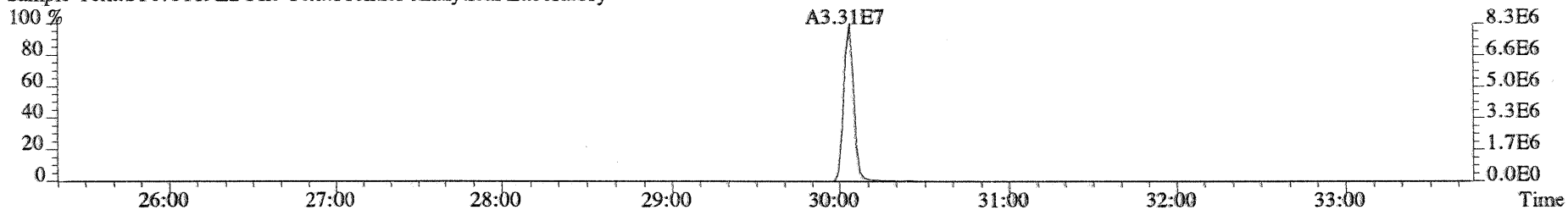
File:31JUL19Z #1-401 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



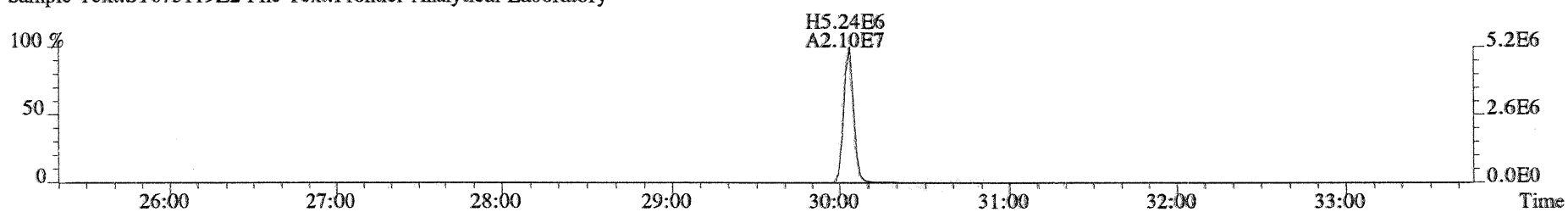
File:31JUL19Z #1-401 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



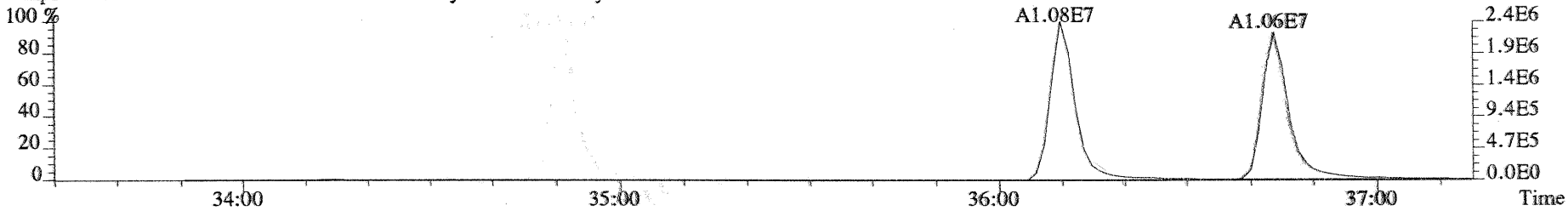
File:31JUL19Z #1-401 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



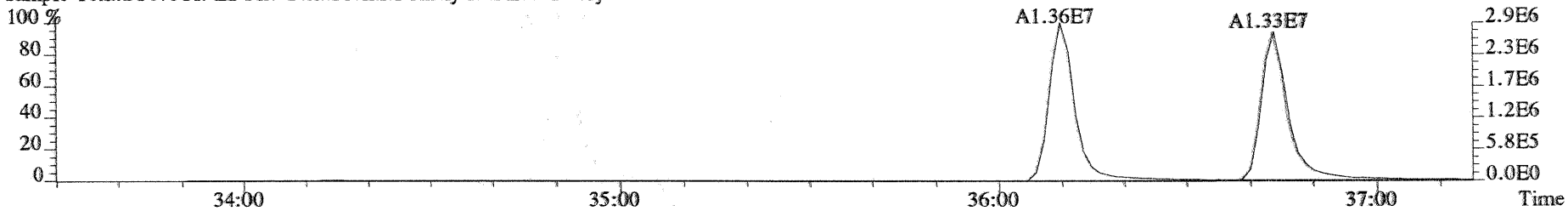
File:31JUL19Z #1-401 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



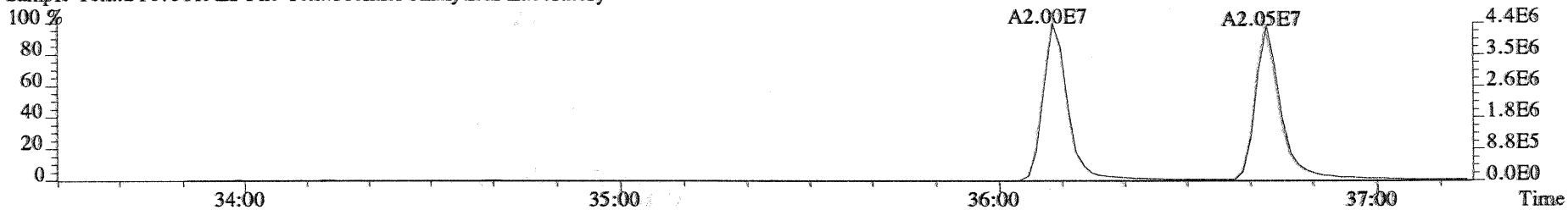
File:31JUL19Z #1-181 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



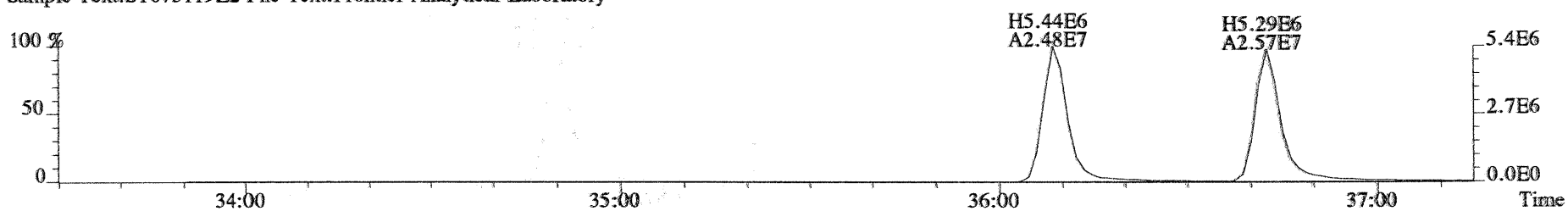
File:31JUL19Z #1-181 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



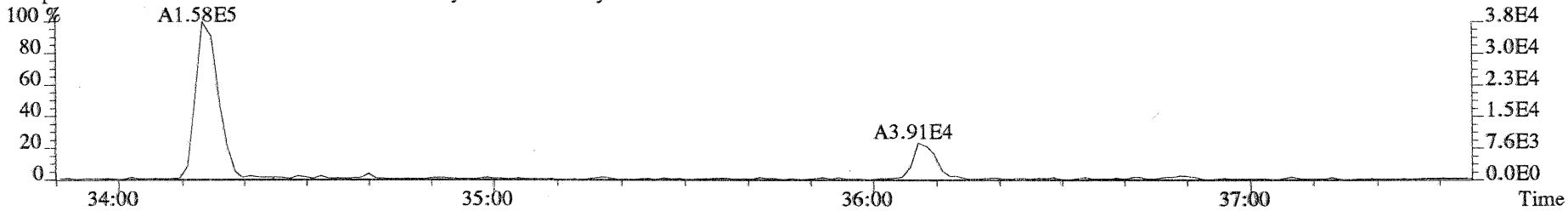
File:31JUL19Z #1-181 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



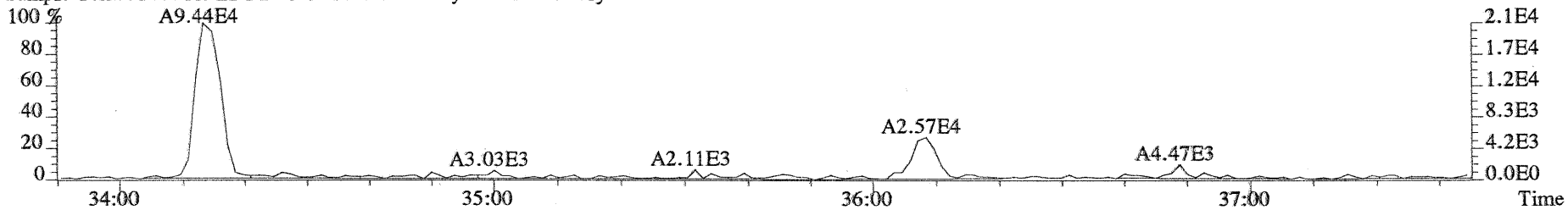
File:31JUL19Z #1-181 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



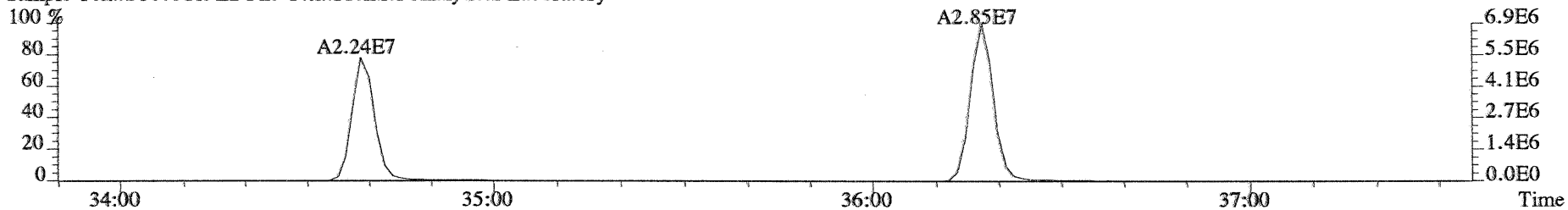
File:31JUL19Z #1-181 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



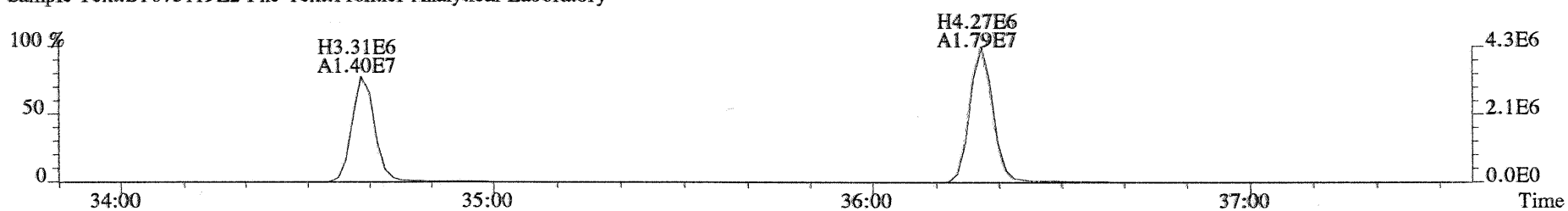
File:31JUL19Z #1-181 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



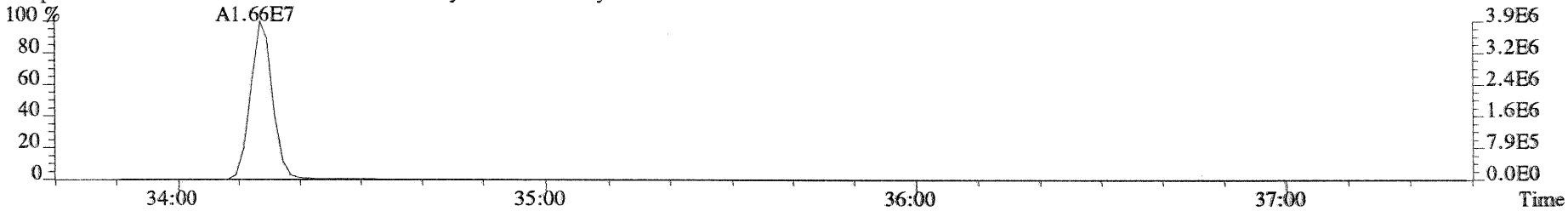
File:31JUL19Z #1-181 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



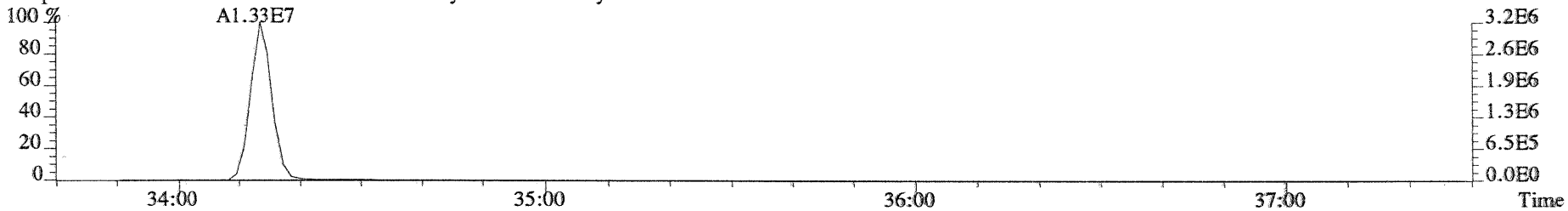
File:31JUL19Z #1-181 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



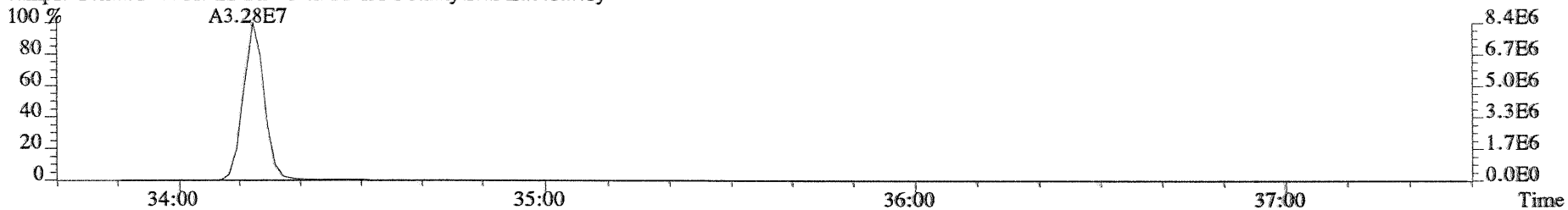
File:31JUL19Z #1-181 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



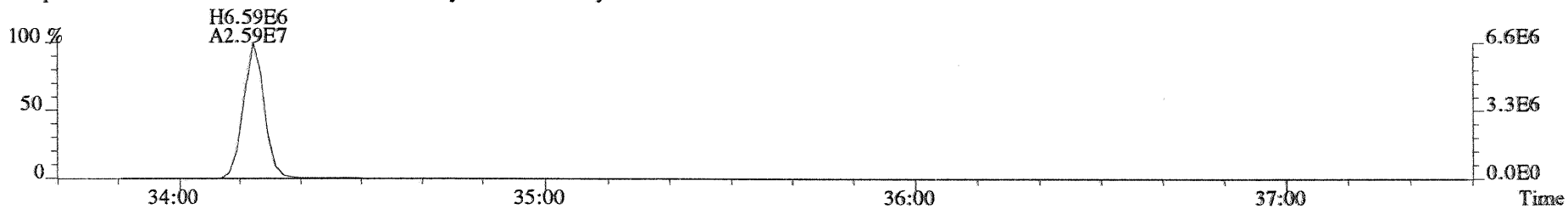
File:31JUL19Z #1-181 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



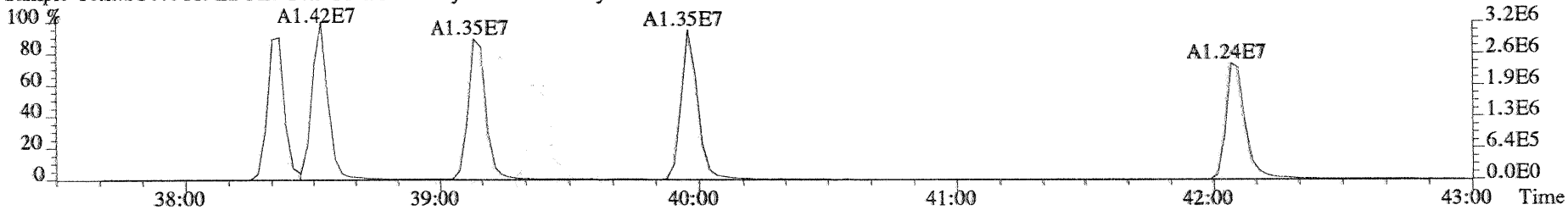
File:31JUL19Z #1-181 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



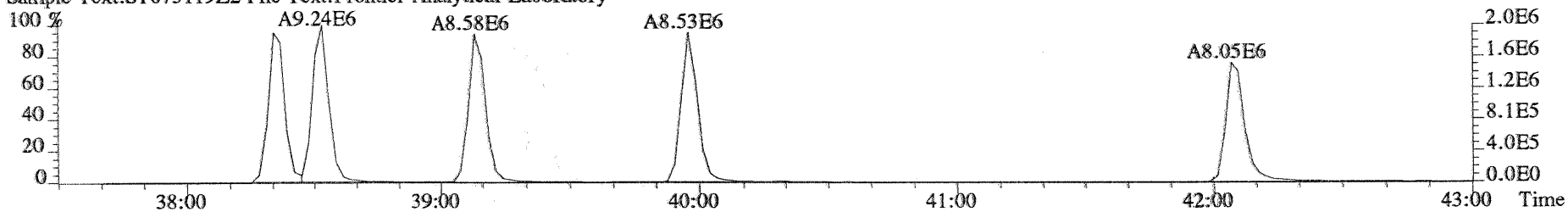
File:31JUL19Z #1-181 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



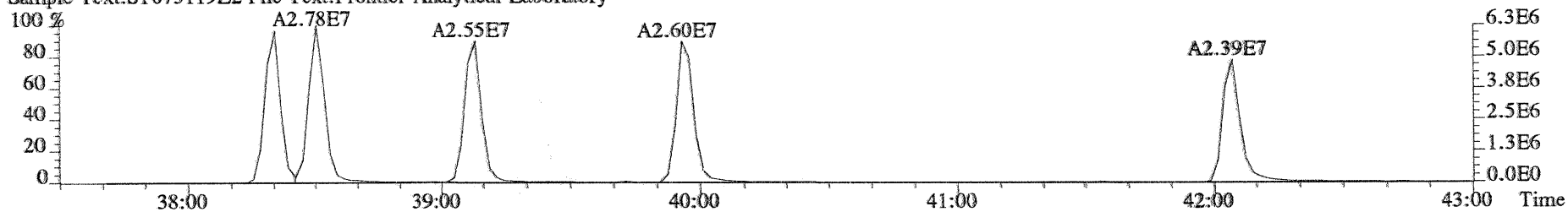
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



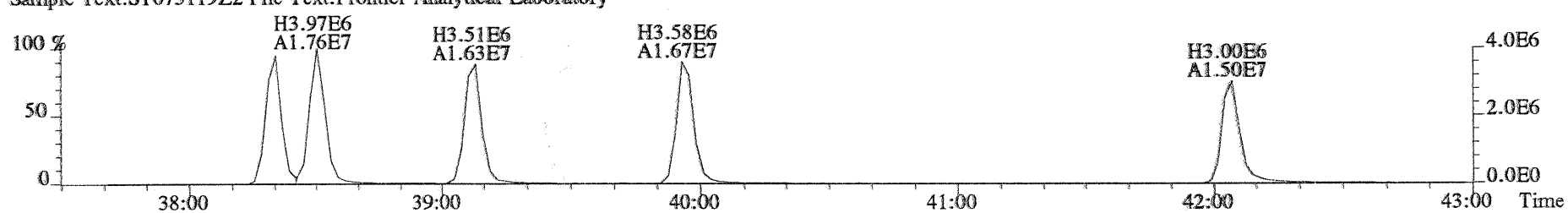
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



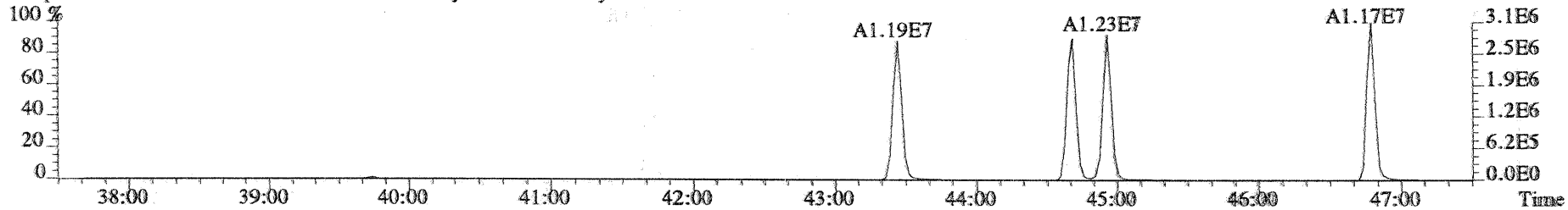
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



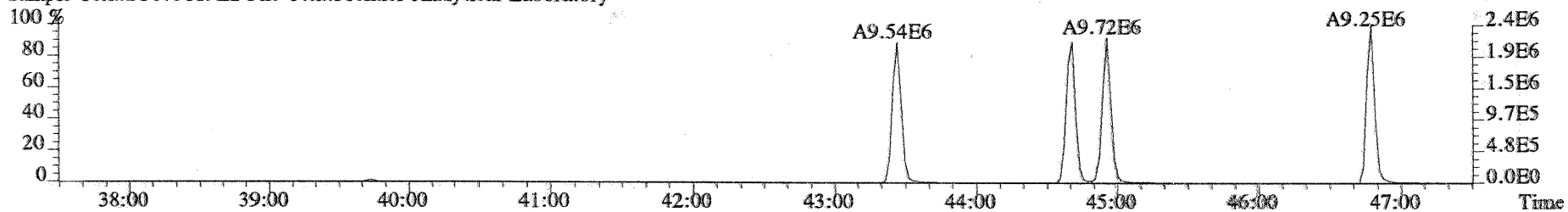
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



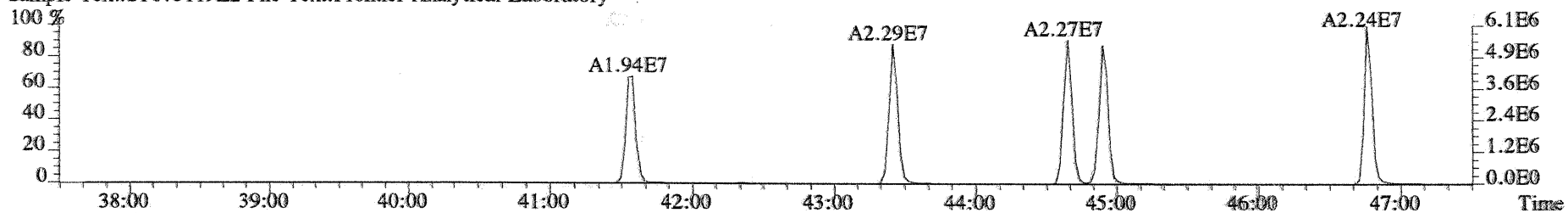
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



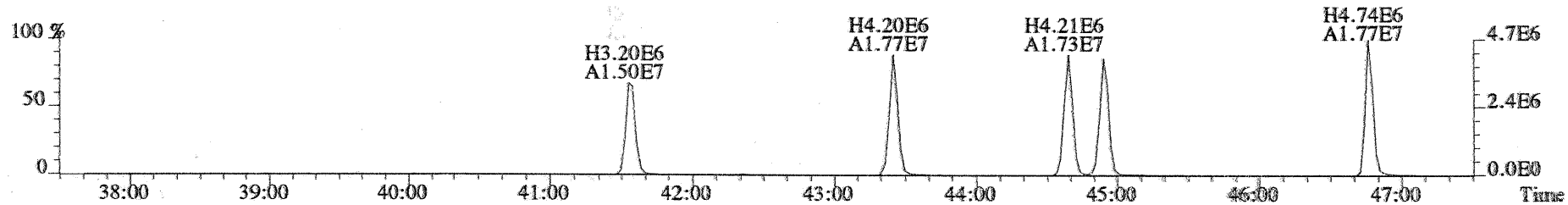
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



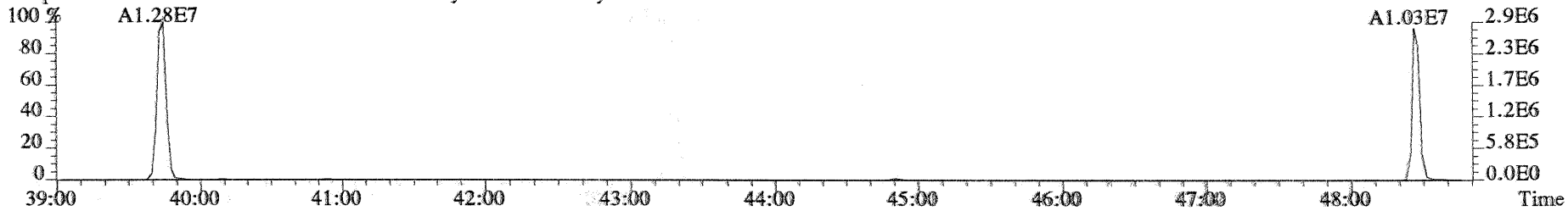
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



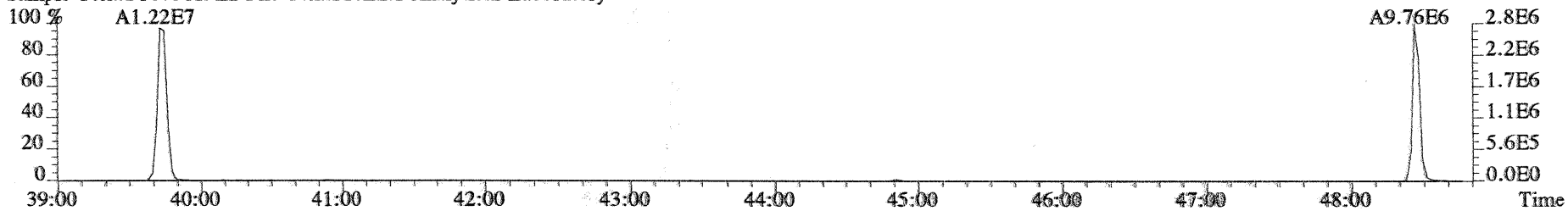
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



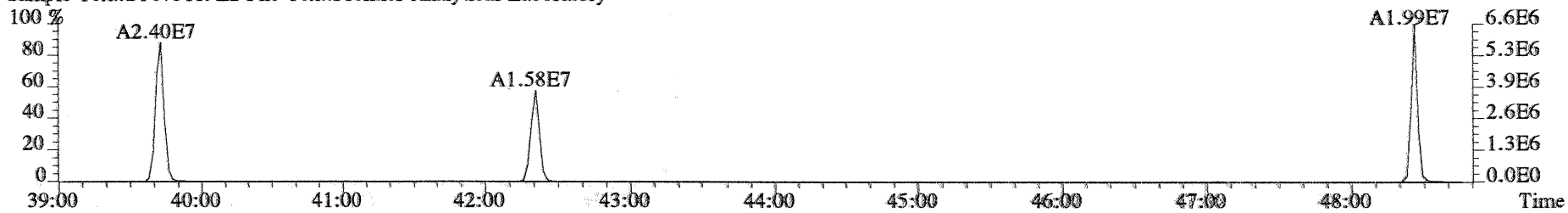
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



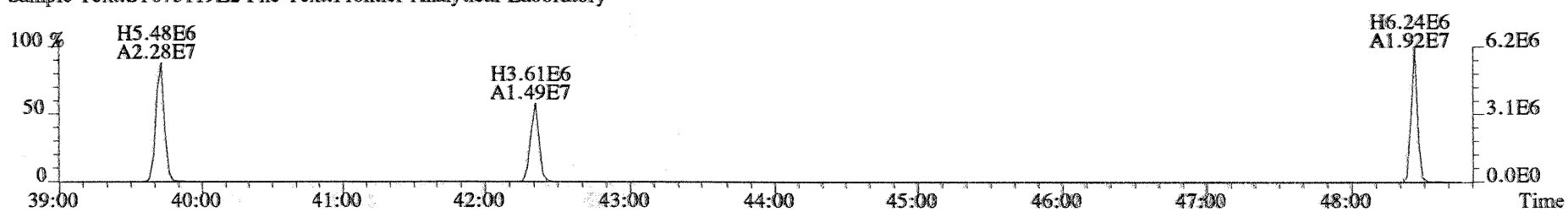
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



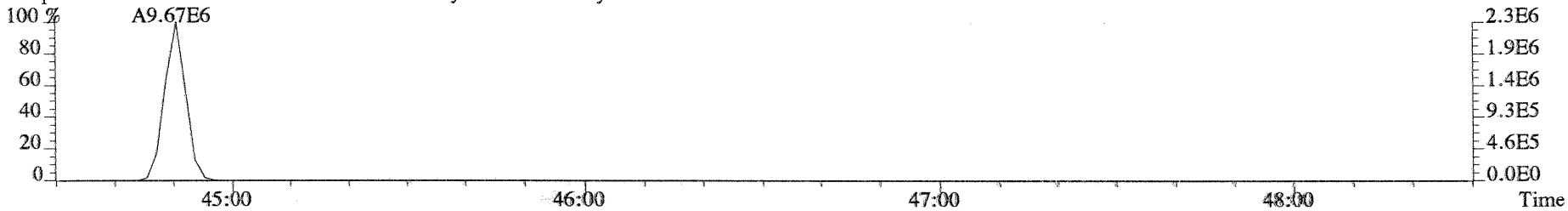
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



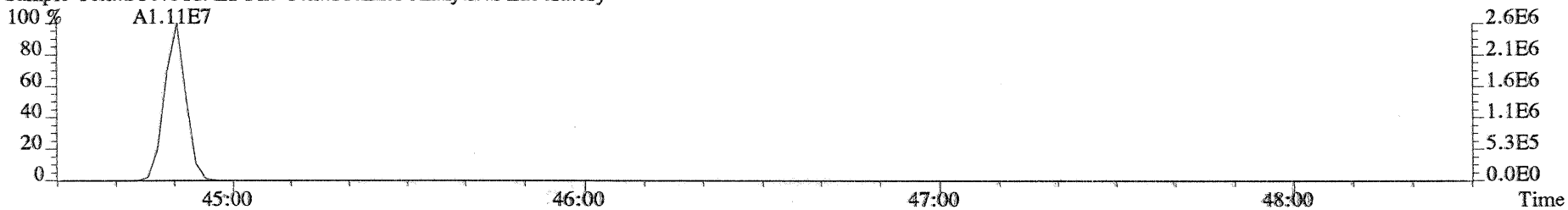
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



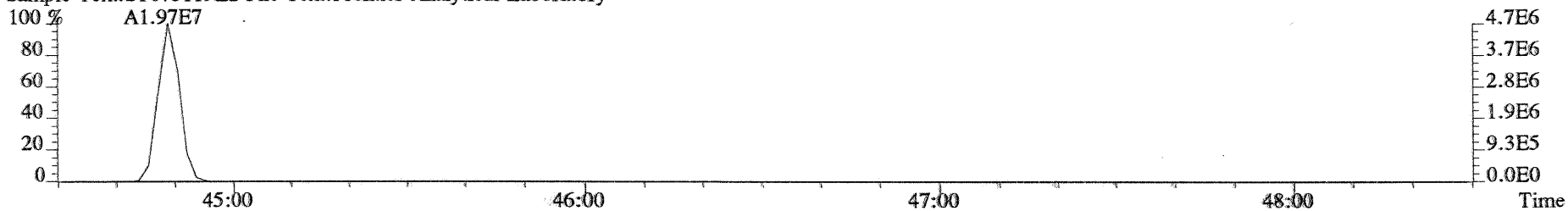
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



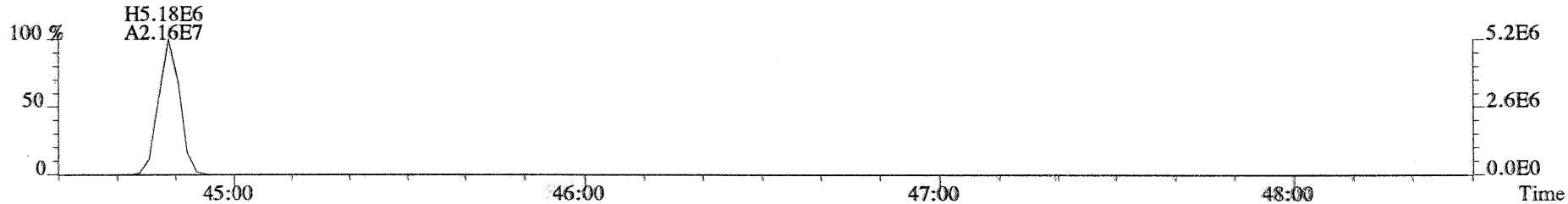
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



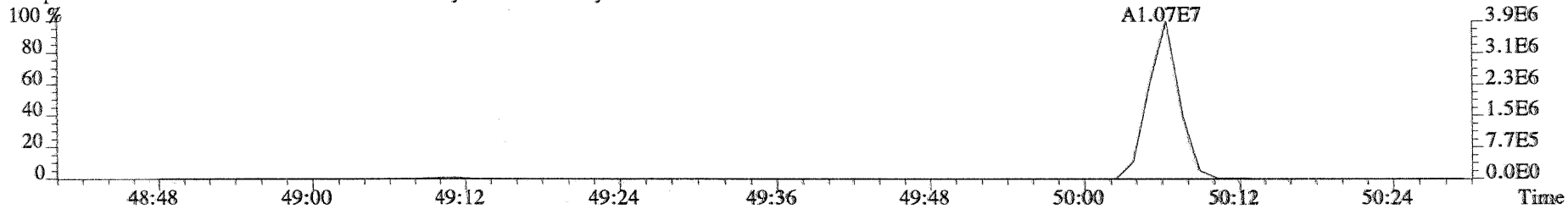
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



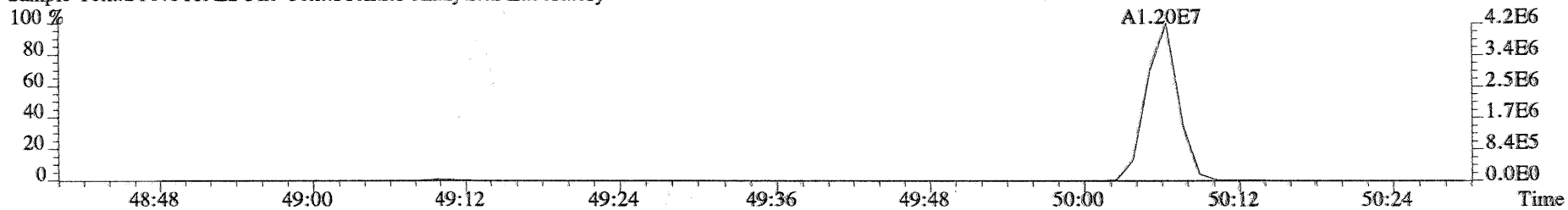
File:31JUL19Z #1-405 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



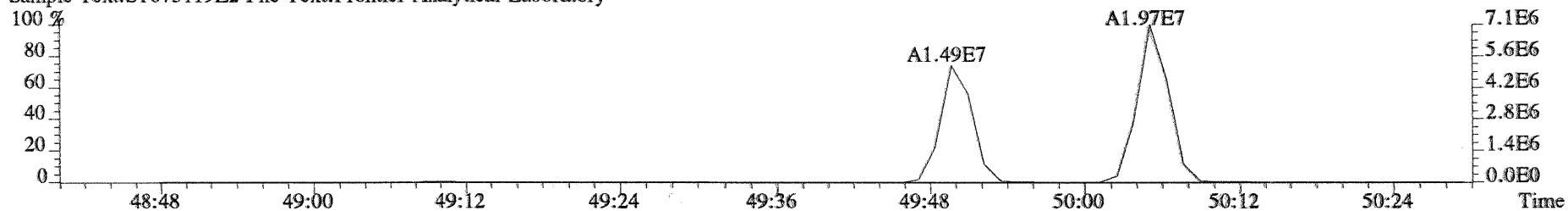
File:31JUL19Z #1-315 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



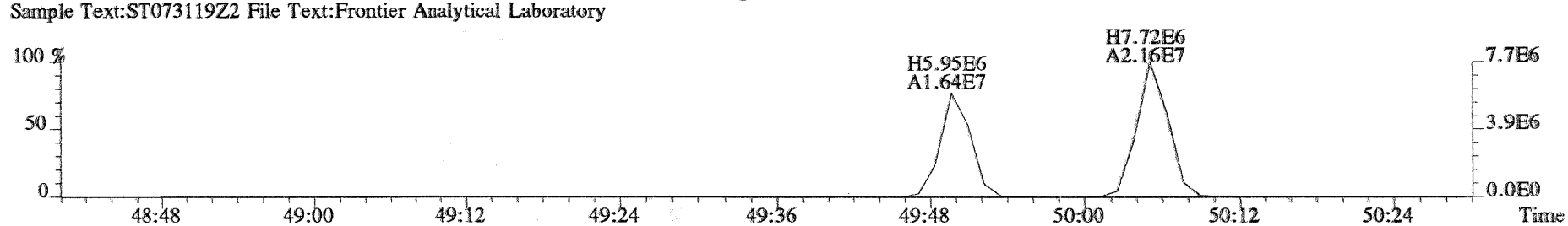
File:31JUL19Z #1-315 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



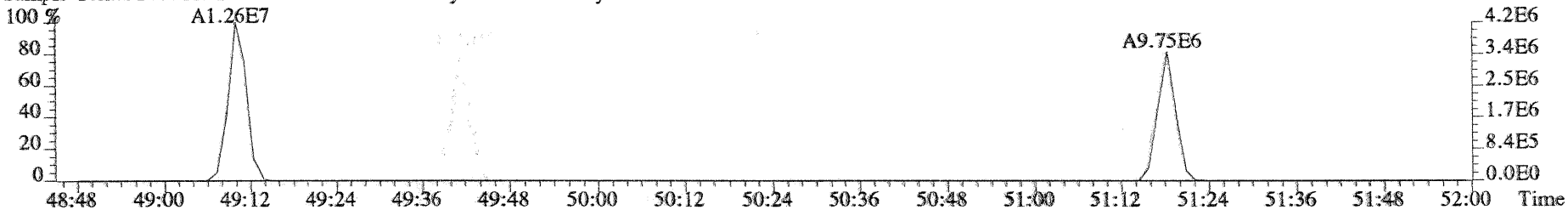
File:31JUL19Z #1-315 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



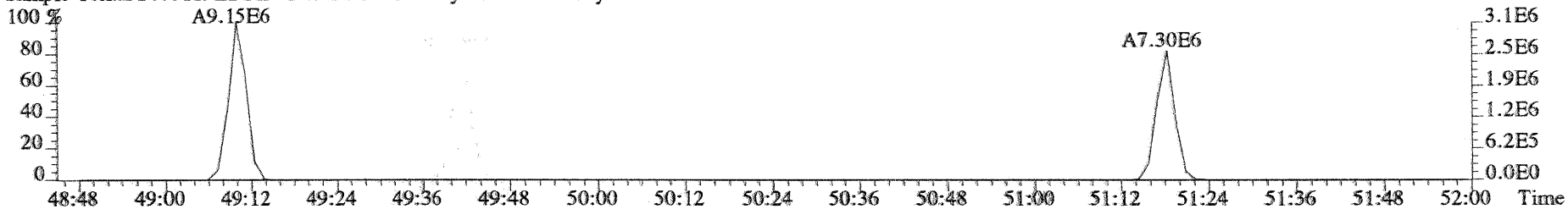
File:31JUL19Z #1-315 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



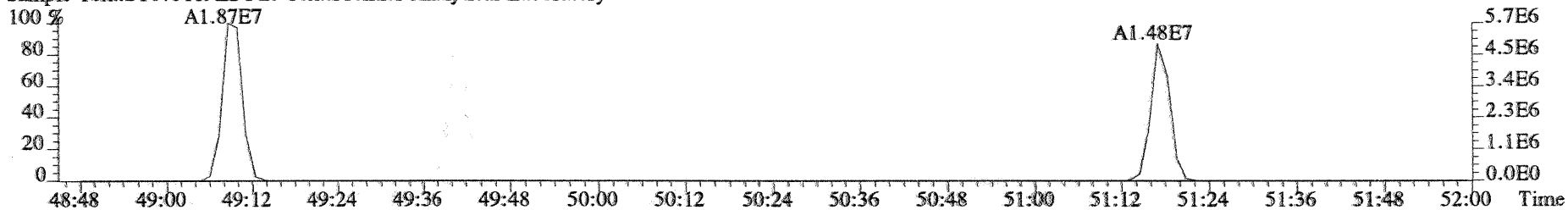
File:31JUL19Z #1-315 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



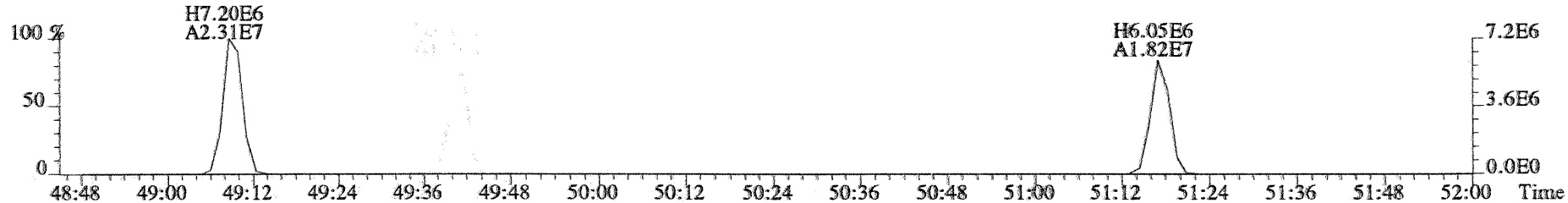
File:31JUL19Z #1-315 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



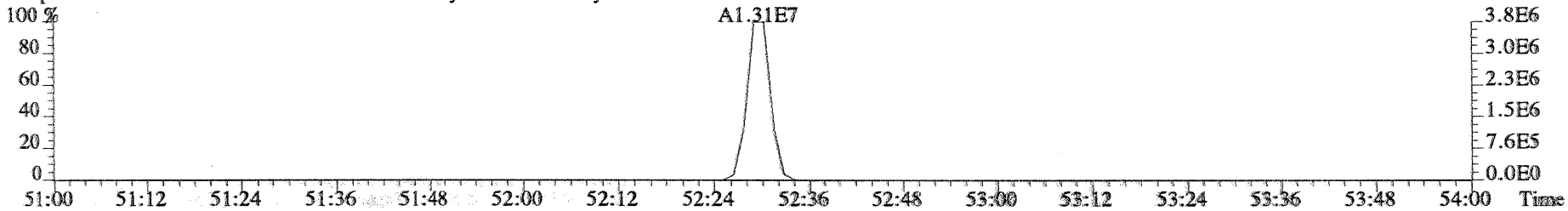
File:31JUL19Z #1-315 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



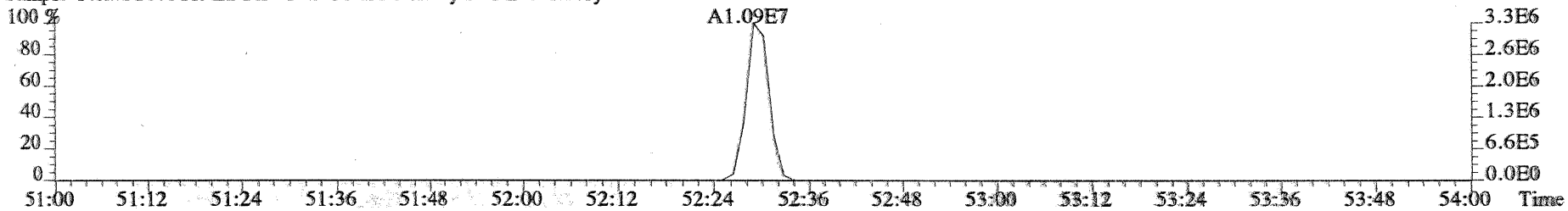
File:31JUL19Z #1-315 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



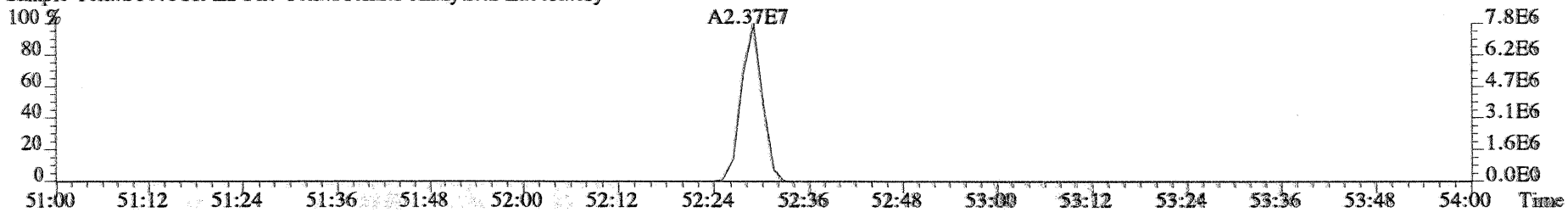
File:31JUL19Z #1-315 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



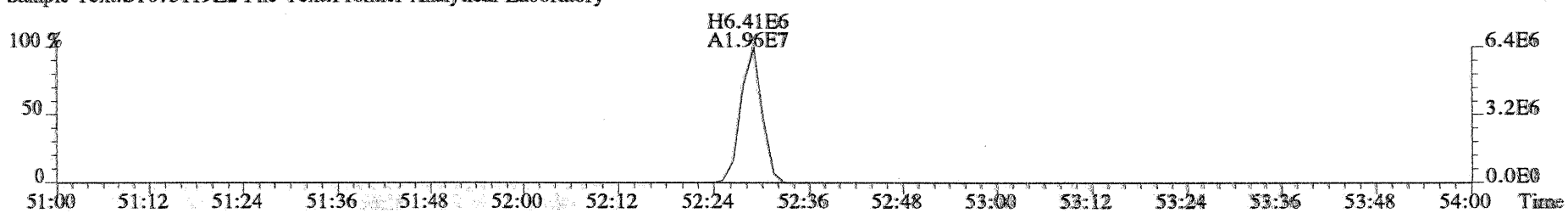
File:31JUL19Z #1-315 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory



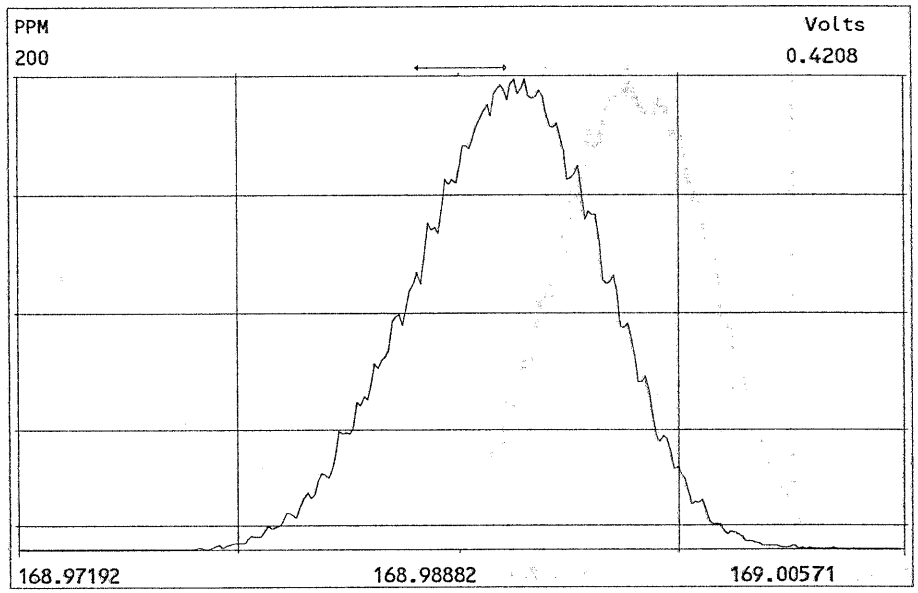
File:31JUL19Z #1-315 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory

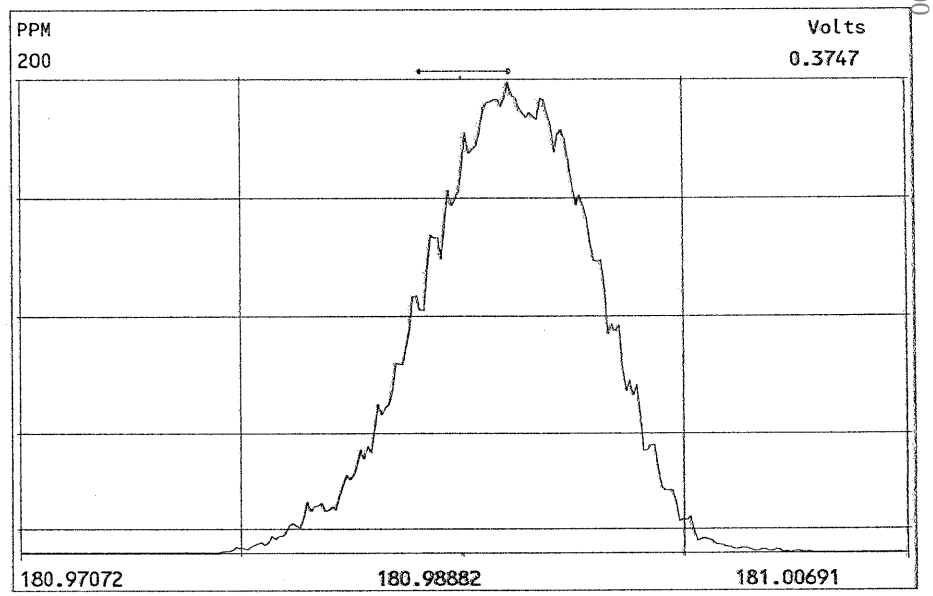


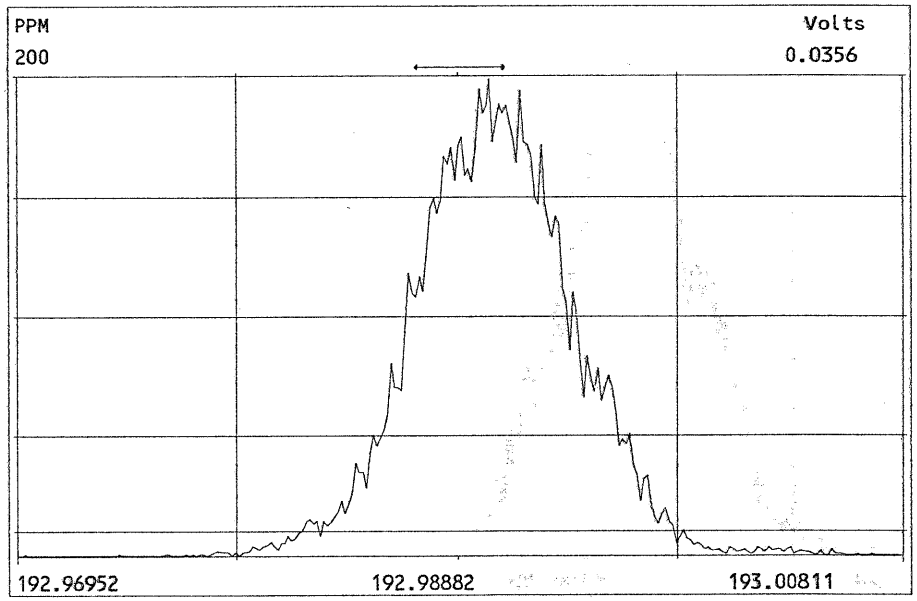
File:31JUL19Z #1-315 Acq: 1-AUG-2019 03:01:17 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST073119Z2 File Text:Frontier Analytical Laboratory

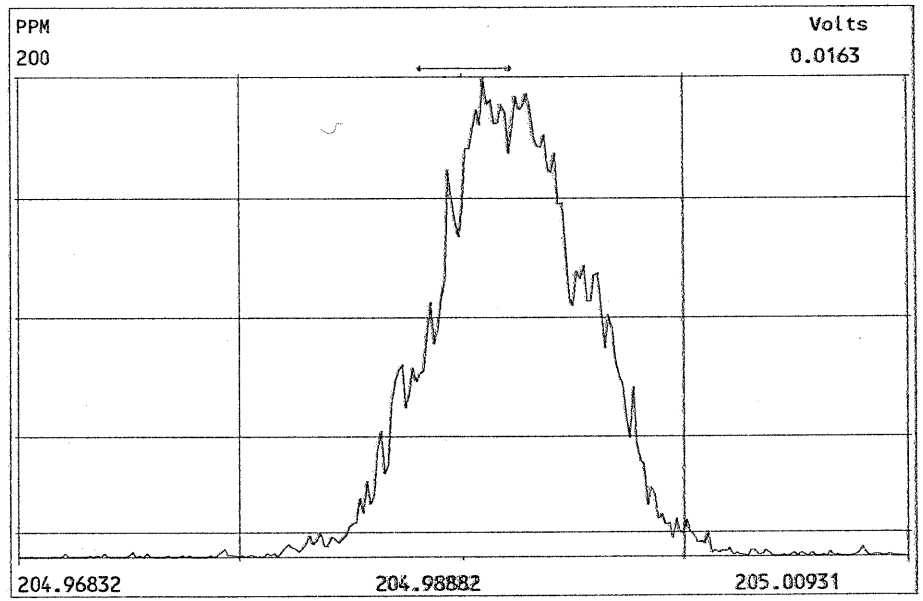


Peak Locate Examination: 1-AUG-2019:04:28 File:31JUL19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

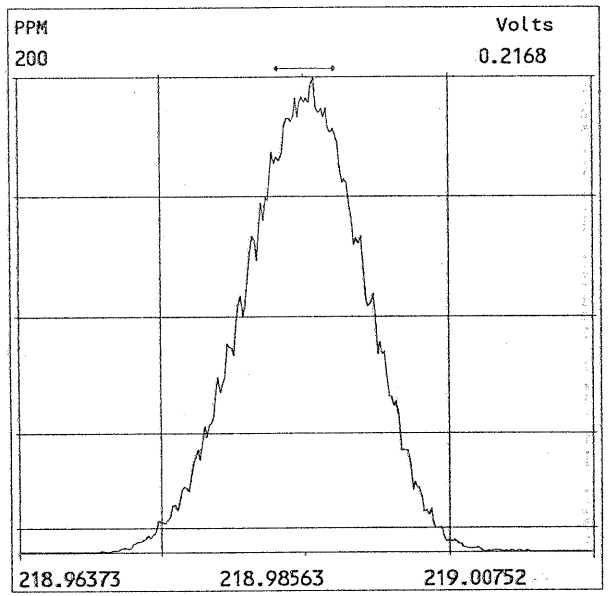


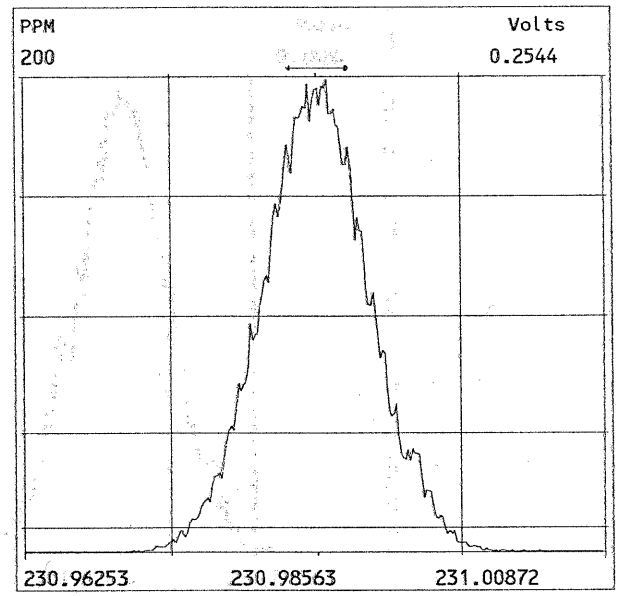


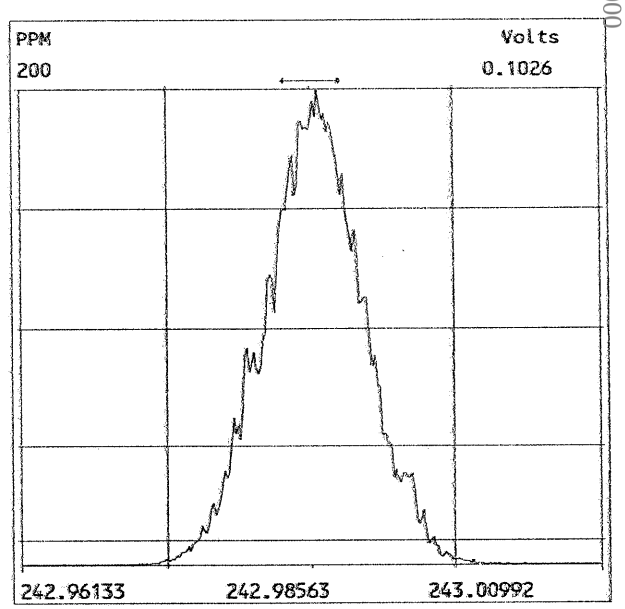


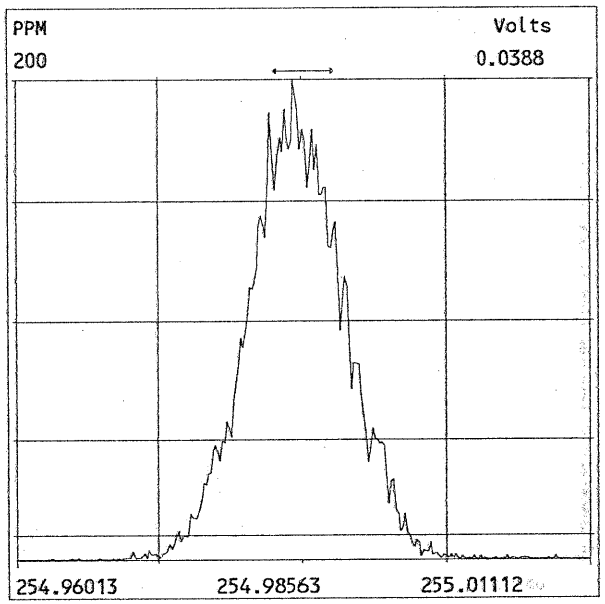


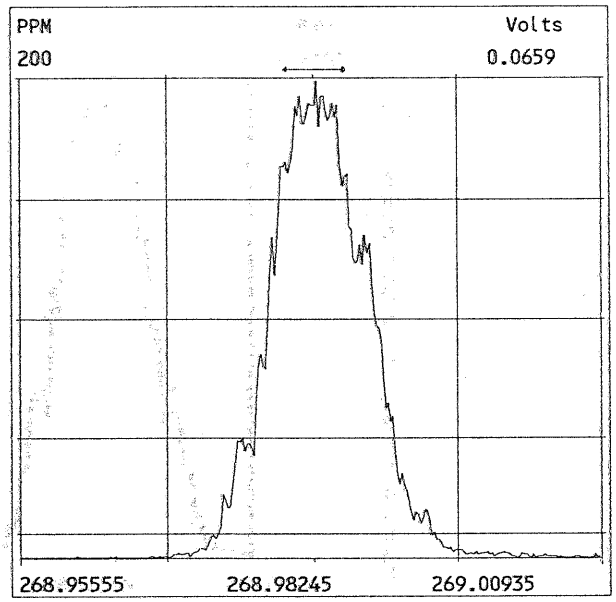
Peak Locate Examination: 1-AUG-2019:04:30 File:31JUL19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

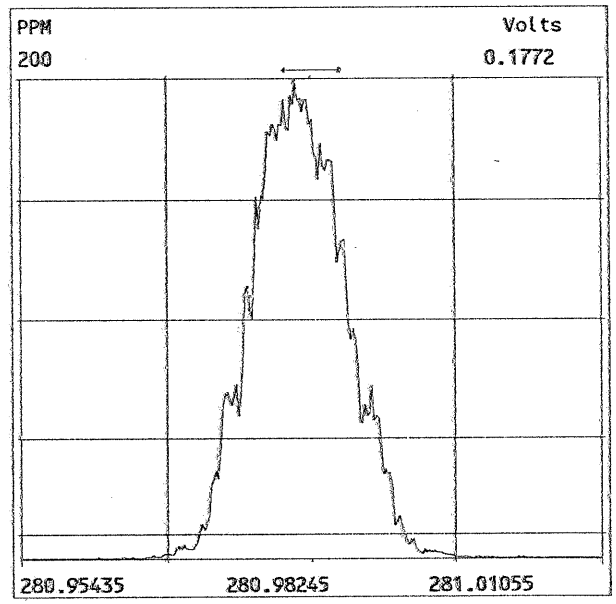




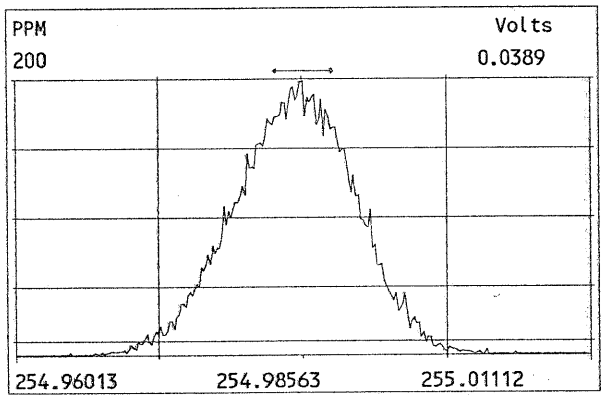


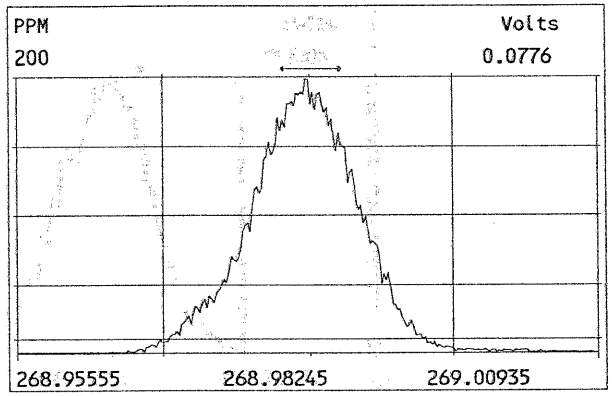


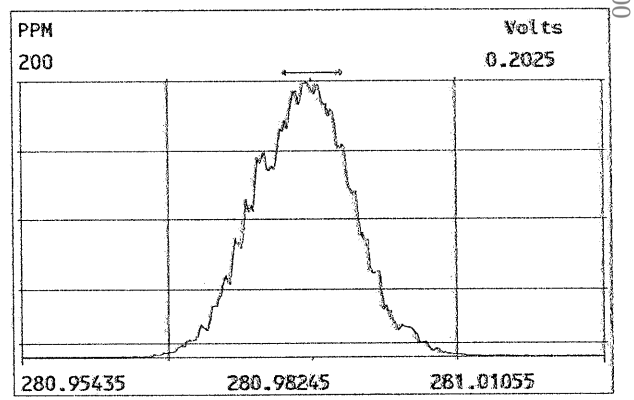


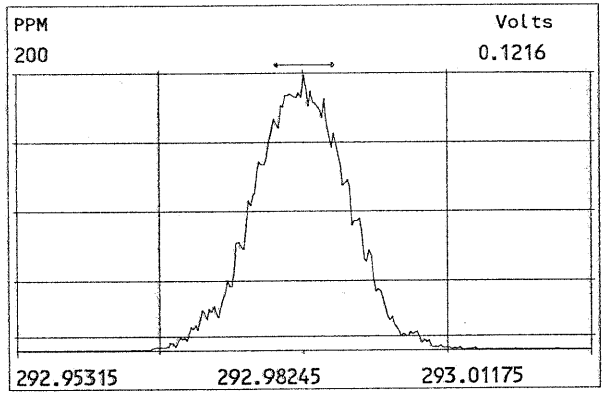


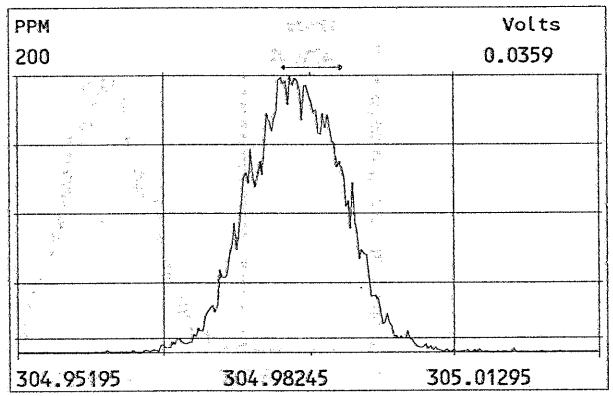
Peak Locate Examination: 1-AUG-2019:04:33 File:31JUL19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

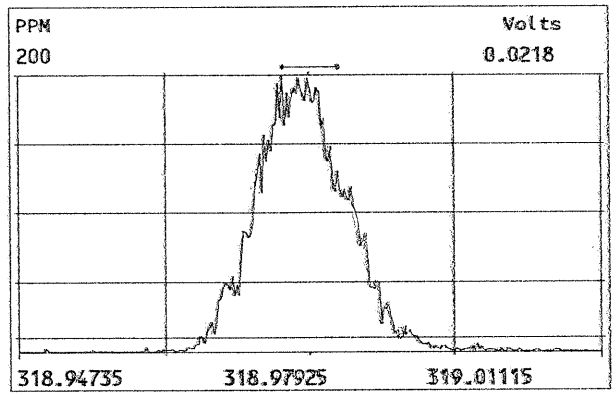


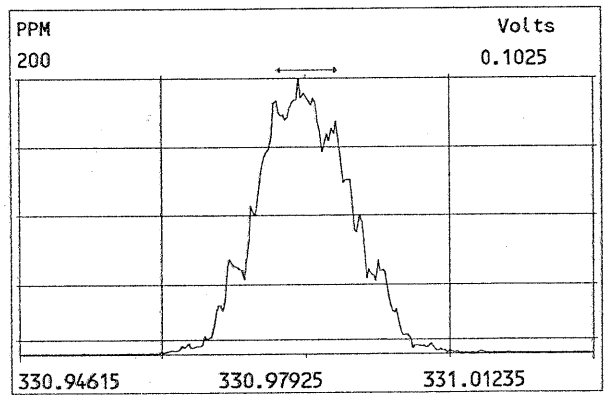


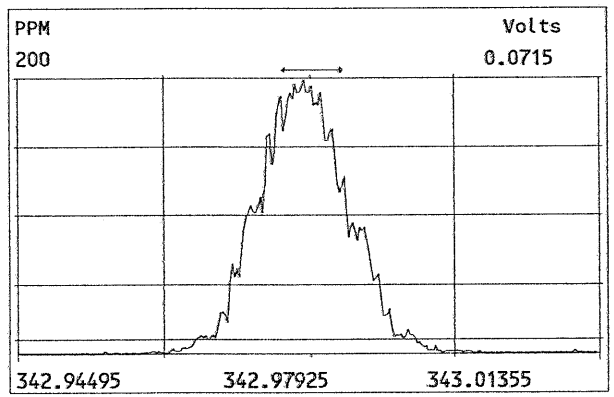




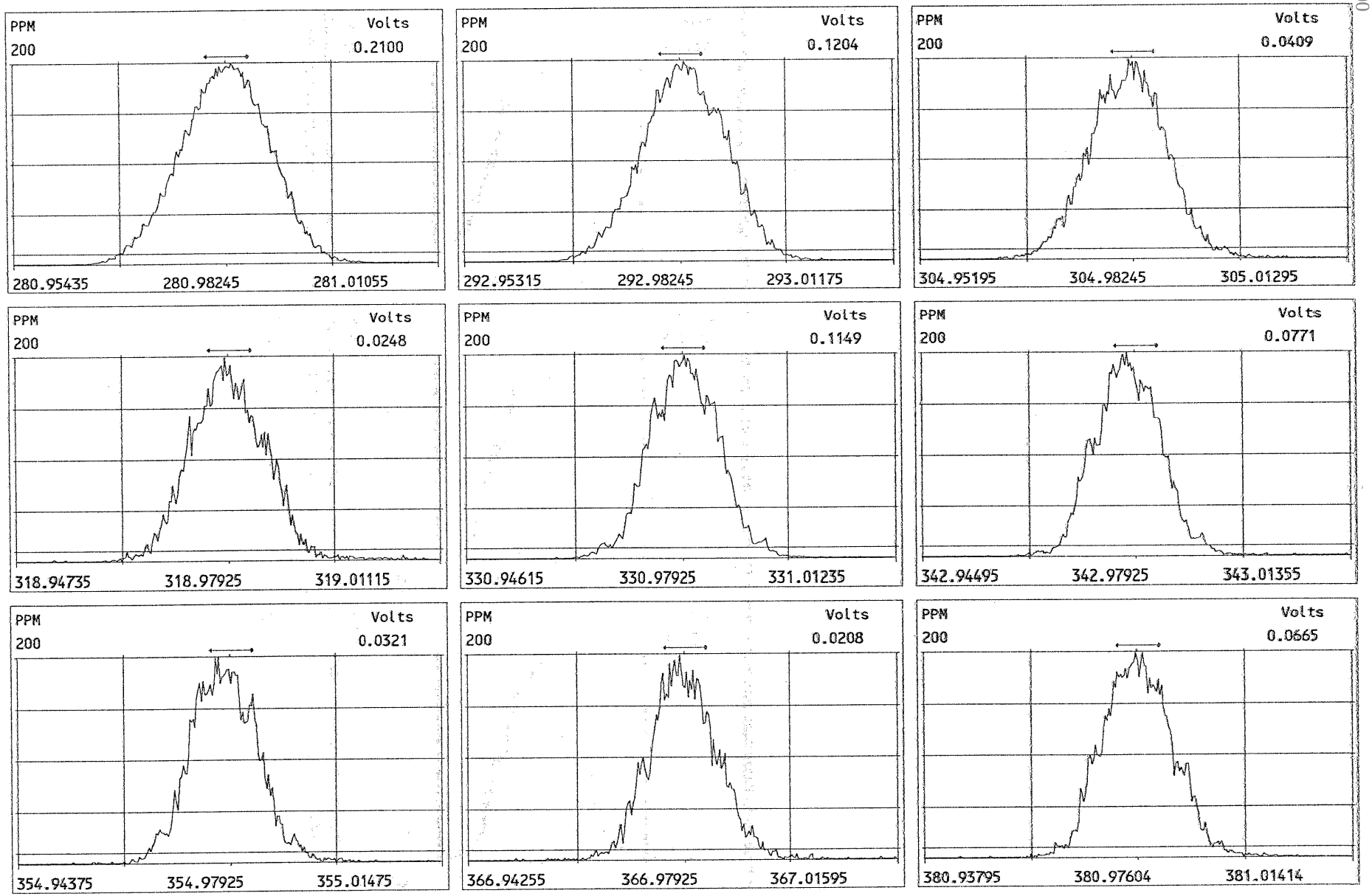




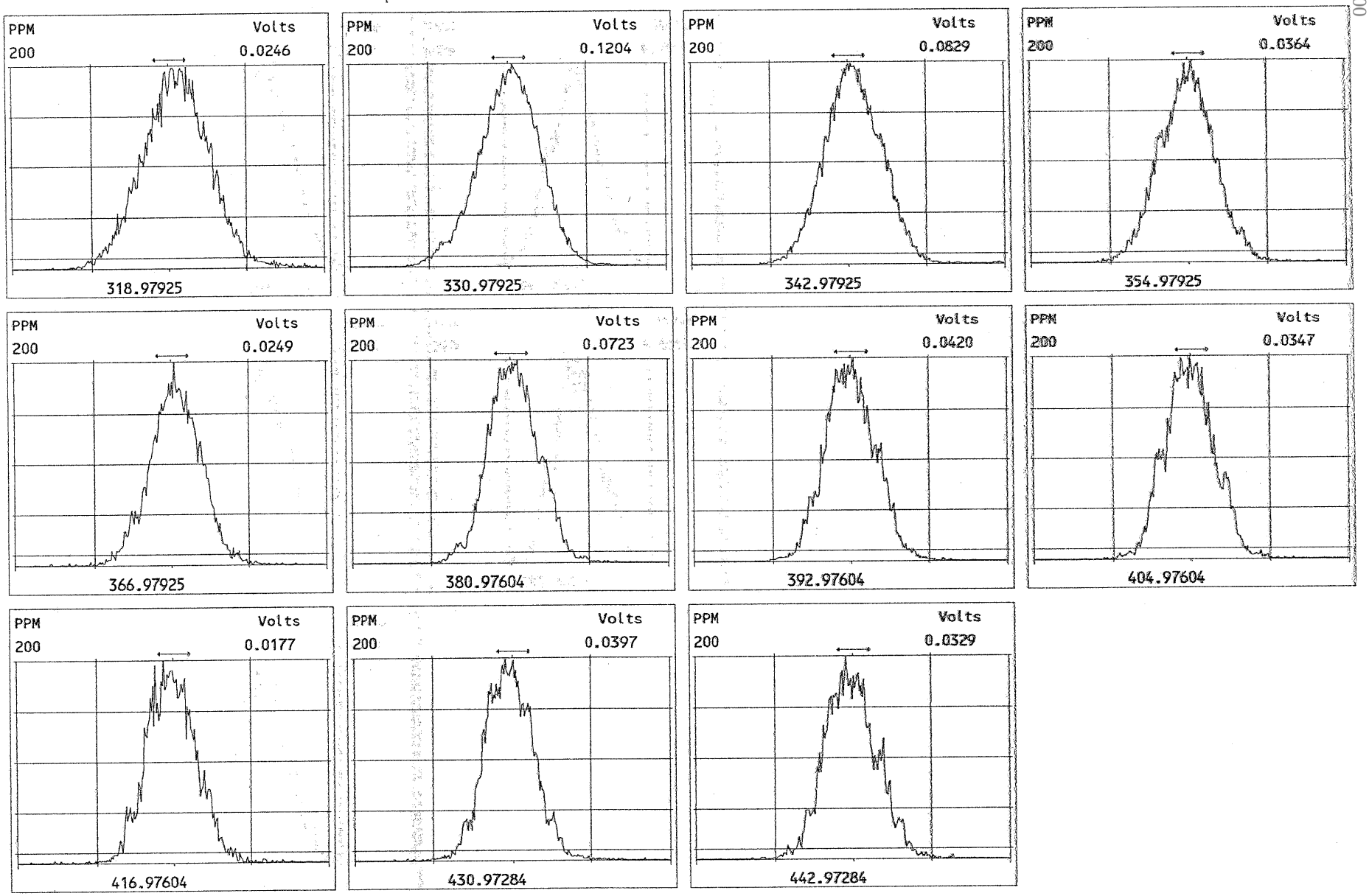




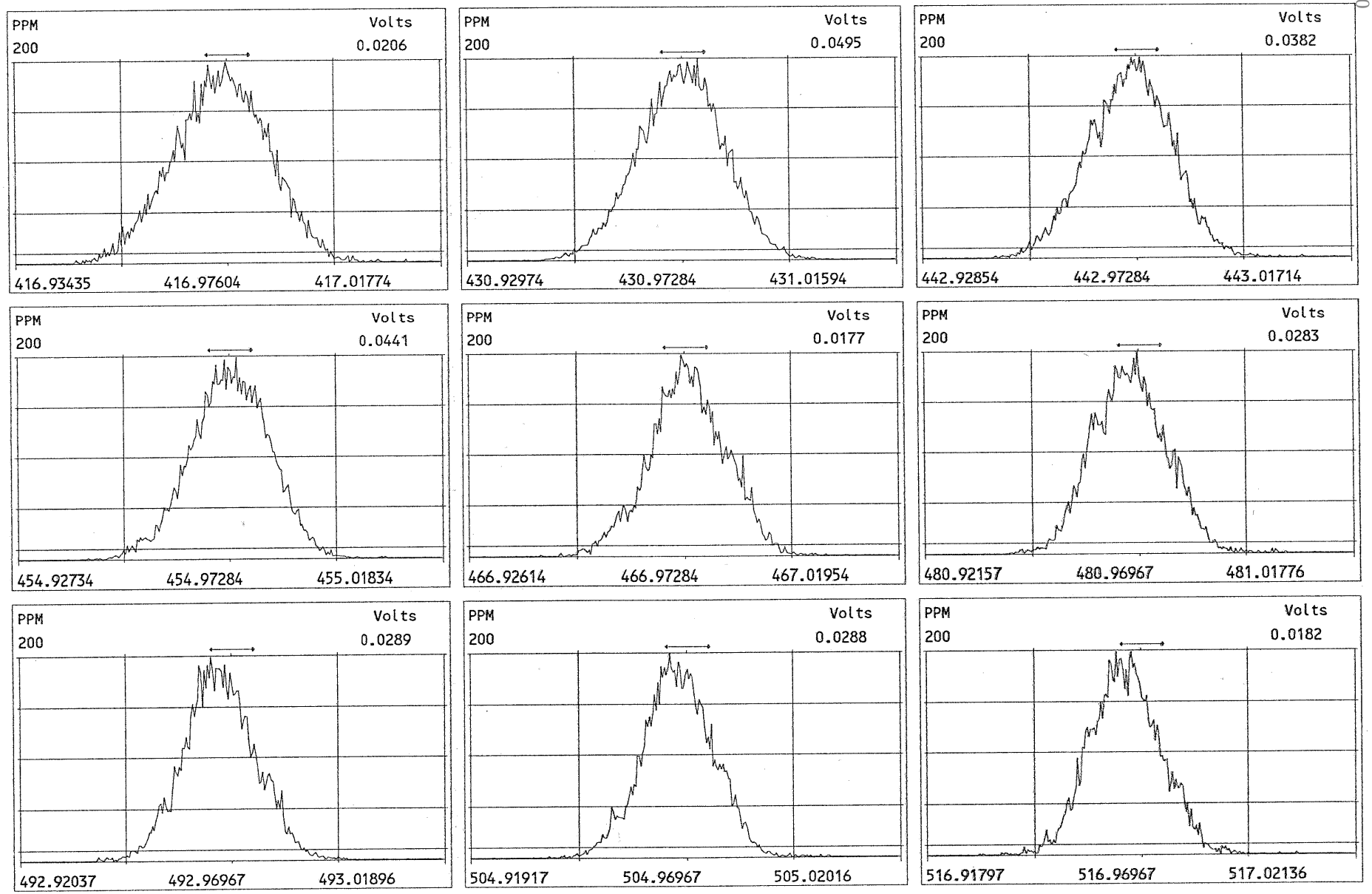
Peak Locate Examination: 1-AUG-2019:04:35 File:31JUL19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK



Peak Locate Examination: 1-AUG-2019:04:38 File:31JUL19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK



Peak Locate Examination: 1-AUG-2019:04:40 File:31JUL19Z_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: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 01AUG19Z Sam:1 Analysis Date: 1-AUG-19 07:26:00

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.13	2.66-3.60	y	45.4	37.5 - 62.5
PCB-3	M/M+2	3.03	2.66-3.60	y	47.2	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	47.8	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	47.2	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	50.1	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	51.4	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	51.0	37.5 - 62.5
PCB-77	M/M+2	0.78	0.65-0.89	y	51.8	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	51.1	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	49.4	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	50.2	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	1.57	1.32-1.78	y	50.4	37.5 - 62.5
PCB-123	M+2/M+4	1.55	1.32-1.78	y	49.5	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	50.8	37.5 - 62.5
PCB-155	M+2/M+4	1.30	1.05-1.43	y	49.9	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	49.3	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	49.6	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	49.7	37.5 - 62.5
PCB-169	M+2/M+4	1.30	1.05-1.43	y	50.6	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	51.8	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	53.1	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	0.89	0.76-1.02	y	52.7	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	51.9	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	51.3	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	51.2	37.5 - 62.5

Analyst: [signature] Date: 8/1/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 01AUG19Z Sam:1 Analysis Date: 1-AUG-19 07:26:00

	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	3.21	2.66-3.60	y	109	50.0 - 145
13C-PCB-3	M/M+2	3.23	2.66-3.60	y	111	50.0 - 145
13C-PCB-4	M/M+2	1.57	1.33-1.79	y	93.1	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	91.9	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	102	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	97.7	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	104	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	90.6	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	95.2	50.0 - 145
13C-PCB-104	M+2/M+4	1.58	1.32-1.78	y	106	50.0 - 145
13C-PCB-105	M+2/M+4	1.57	1.32-1.78	y	91.0	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	91.5	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	93.8	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	91.7	50.0 - 145
13C-PCB-126	M+2/M+4	1.57	1.32-1.78	y	90.1	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	96.4	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	96.2	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	90.8	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	97.1	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	94.5	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	97.7	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	121	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	105	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	103	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	107	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	112	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	105	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	100	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	101	75.0 - 125

Analyst: _____ Date: 8/1/19

FAL ID: ST080119Z1 Filename: 01AUG19Z Sam:1 Acquired: 1-AUG-19 07:26:00 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 01AUG19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.64e+07	3.13 y	14:32	1.19	45.4		2.50	-	-	*	-
13C-PCB-1	1.22e+08	3.21 y	14:31	1.02	109		2.50				109
PCB-3	6.61e+07	3.03 y	16:58	1.18	47.2		2.50	-	-	*	-
13C-PCB-3	1.19e+08	3.23 y	16:57	0.97	111		2.50				111
PCB-4	3.78e+07	1.57 y	18:12	1.04	47.8		2.50	-	-	*	-
13C-PCB-4	7.57e+07	1.57 y	18:10	0.74	93.1		2.50				93.1
PCB-15	4.75e+07	1.55 y	23:44	1.03	47.2		2.50	-	-	*	-
13C-PCB-15	9.77e+07	1.60 y	23:42	0.96	91.9		2.50				91.9
PCB-19	3.30e+07	1.06 y	22:05	1.11	50.1		2.50	-	-	*	-
13C-PCB-19	5.93e+07	1.07 y	22:04	0.53	102		2.50				102
13C-PCB-9	1.10e+08	1.59 y	19:51	-	142		2.50				
PCB-37	3.61e+07	1.04 y	30:23	1.04	51.4		2.50	-	-	*	-
13C-PCB-37	6.77e+07	1.09 y	30:22	1.57	97.7		2.50				97.7
PCB-54	3.77e+07	0.80 y	25:38	1.16	51.0		2.50	-	-	*	-
13C-PCB-54	6.35e+07	0.83 y	25:36	1.38	104		2.50				104
PCB-104	2.76e+07	1.59 y	30:04	1.08	49.4		2.50	-	-	*	-
13C-PCB-104	5.17e+07	1.58 y	30:03	1.11	106		2.50				106
13C-PCB-28	7.94e+07	1.04 y	26:41	1.71	105		2.50				105
13C-PCB-52	4.43e+07	0.83 y	28:57	-	116		2.50				
PCB-81	2.81e+07	0.78 y	36:09	1.06	51.1		2.50	-	-	*	-
13C-PCB-81	5.17e+07	0.79 y	36:08	1.50	95.2		2.50				95.2
PCB-77	2.72e+07	0.78 y	36:44	1.02	51.8		2.50	-	-	*	-
13C-PCB-77	5.14e+07	0.79 y	36:42	1.57	90.6		2.50				90.6
PCB-155	2.53e+07	1.30 y	34:13	1.02	49.9		2.50	-	-	*	-
13C-PCB-155	4.95e+07	1.29 y	34:12	1.42	96.4		2.50				96.4
13C-PCB-111	4.68e+07	1.61 y	36:17	1.29	100		2.50				100
13C-PCB-101	3.62e+07	1.60 y	34:38	-	110		2.50				
PCB-123	2.25e+07	1.55 y	38:22	1.03	49.5		2.50	-	-	*	-
13C-PCB-123	4.39e+07	1.58 y	38:20	1.40	91.7		2.50				91.7
PCB-118	2.53e+07	1.57 y	38:32	1.02	50.4		2.50	-	-	*	-
13C-PCB-118	4.93e+07	1.58 y	38:30	1.53	93.8		2.50				93.8
PCB-114	2.36e+07	1.56 y	39:09	1.01	51.2		2.50	-	-	*	-
13C-PCB-114	4.54e+07	1.58 y	39:08	1.45	91.5		2.50				91.5
PCB-105	2.29e+07	1.54 y	39:57	1.02	50.2		2.50	-	-	*	-
13C-PCB-105	4.49e+07	1.57 y	39:57	1.44	91.0		2.50				91.0
PCB-126	2.19e+07	1.57 y	42:06	1.02	50.8		2.50	-	-	*	-
13C-PCB-126	4.23e+07	1.57 y	42:04	1.37	90.1		2.50				90.1
PCB-167	2.27e+07	1.25 y	43:26	1.07	49.7		2.50	-	-	*	-
13C-PCB-167	4.27e+07	1.28 y	43:25	1.28	97.1		2.50				97.1
PCB-156	2.20e+07	1.27 y	44:40	1.10	49.3		2.50	-	-	*	-
13C-PCB-156	4.08e+07	1.29 y	44:39	1.24	96.2		2.50				96.2
PCB-157	2.19e+07	1.26 y	44:55	1.06	49.6		2.50	-	-	*	-
13C-PCB-157	4.16e+07	1.27 y	44:55	1.34	90.8		2.50				90.8
PCB-169	2.16e+07	1.30 y	46:47	1.06	50.6		2.50	-	-	*	-
13C-PCB-169	4.02e+07	1.27 y	46:45	1.24	94.5		2.50				94.5
PCB-188	2.27e+07	1.06 y	39:44	1.02	51.8		2.50	-	-	*	-
13C-PCB-188	4.31e+07	1.06 y	39:42	1.29	97.7		2.50				97.7
PCB-189	2.34e+07	1.05 y	48:27	0.99	53.1		2.50	-	-	*	-
13C-PCB-189	4.44e+07	1.06 y	48:26	1.07	121		2.50				121
PCB-202	1.99e+07	0.92 y	44:50	0.99	51.5		2.50	-	-	*	-
13C-PCB-202	3.91e+07	0.90 y	44:50	1.09	105		2.50				105
13C-PCB-178	2.79e+07	1.07 y	42:20	0.81	101		2.50				101
13C-PCB-138	3.43e+07	1.29 y	41:34	-	107		2.50				

FAL ID: ST08011921 Filename: 01AUG19Z Sam:1 Acquired: 1-AUG-19 07:26:00 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 01AUG19Z GC Column: DB1MS Amount: 1.000

PCB-205	2.53e+07	0.89	y	50:06	1.02	52.7	2.50	-	-	*	-
13C-PCB-205	4.70e+07	0.90	y	50:05	1.40	98.3	2.50				98.3
PCB-208	2.49e+07	1.36	y	49:10	0.98	51.3	2.50	-	-	*	-
13C-PCB-208	4.97e+07	0.81	y	49:10	1.36	107	2.50				107
PCB-206	1.82e+07	1.37	y	51:18	0.99	51.9	2.50	-	-	*	-
13C-PCB-206	3.53e+07	0.80	y	51:17	1.01	103	2.50				103
PCB-209	2.58e+07	1.19	y	52:30	1.09	51.2	2.50	-	-	*	-
13C-PCB-209	4.63e+07	1.20	y	52:29	1.21	112	2.50				112
13C-PCB-194	3.41e+07	0.91	y	49:49	-	111	2.50				

Analyst: _____ Date: 8/1/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:01AUG19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
01AUG19Z	1	ST080119Z1	1668 CS3 R181204D	1-AUG-19 07:26:00	ST080119Z1	ST080119Z2	BS
01AUG19Z	2	SS080119Z1	Daily 209 190408A	1-AUG-19 08:24:20	ST080119Z1	ST080119Z2	BS
01AUG19Z	3	12510-011-0001-SA	LDW-Y2-SU-ENR-CC-S010	1-AUG-19 09:22:41	ST080119Z1	ST080119Z2	BS
01AUG19Z	4	12510-012-0001-SA	LDW-Y2-SU-ENR-CD-S010	1-AUG-19 10:21:02	ST080119Z1	ST080119Z2	BS
01AUG19Z	5	12510-013-0001-SA	LDW-Y2-SU-ENR-CE-S010	1-AUG-19 11:19:23	ST080119Z1	ST080119Z2	BS
01AUG19Z	6	12510-014-0001-SA	LDW-Y2-SU-S010-LCB * BAD INJ	1-AUG-19 12:17:44	ST080119Z1	ST080119Z2	BS
01AUG19Z	7	12510-015-0001-SA	LDW-Y2-IN-ENR+AC-CA-S010 * BAD INJ	1-AUG-19 13:16:05	ST080119Z1	ST080119Z2	BS
01AUG19Z	8	04991-001-0001-OPR	OPR	1-AUG-19 14:14:27	ST080119Z1	ST080119Z2	BS
01AUG19Z	9	04991-001-0001-MB	Method Blank	1-AUG-19 15:12:48	ST080119Z1	ST080119Z2	BS
01AUG19Z	10	12536-001-0001-SA	Effluent	1-AUG-19 16:11:09	ST080119Z1	ST080119Z2	BS
01AUG19Z	11	12556-001-0001-SA	201907230157	1-AUG-19 17:09:30	ST080119Z1	ST080119Z2	BS
01AUG19Z	12	12566-001-0001-SA	EBMUD-001 (Post GAC Recirc)	1-AUG-19 18:07:52	ST080119Z1	ST080119Z2	BS
01AUG19Z	13	12566-002-0001-SA	MF-001 (Pre GAC)	1-AUG-19 19:06:35	ST080119Z1	ST080119Z2	BS
01AUG19Z	14	12567-001-0001-SA	MG-001 (MG Tank)	1-AUG-19 20:04:56	ST080119Z1	ST080119Z2	BS
01AUG19Z	15	SB080119Z1	Solvent Blank	1-AUG-19 21:03:17	ST080119Z1	ST080119Z2	BS
01AUG19Z	16	ST080119Z2	1668 CS3 R181204D	1-AUG-19 22:01:41	ST080119Z1	ST080119Z2	BS

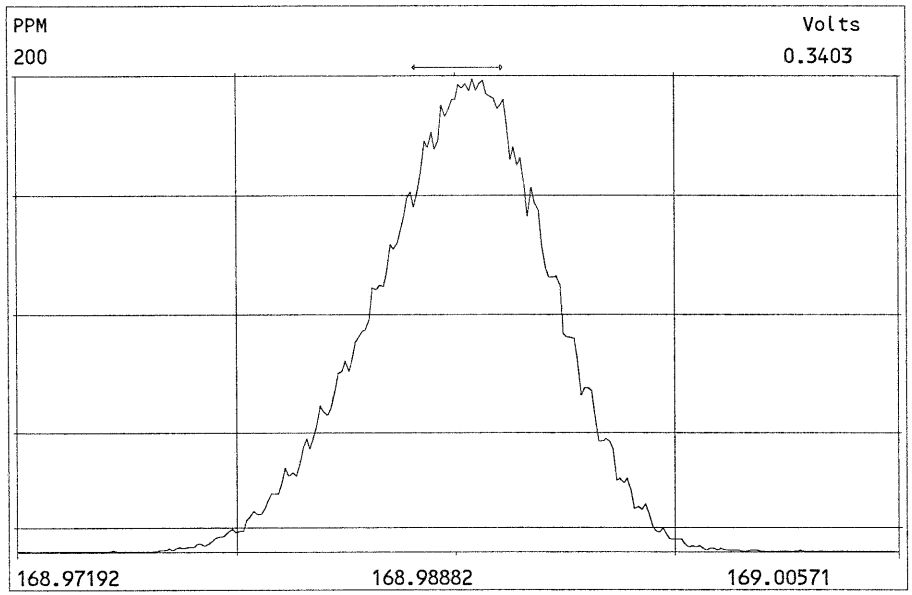
8/13/19

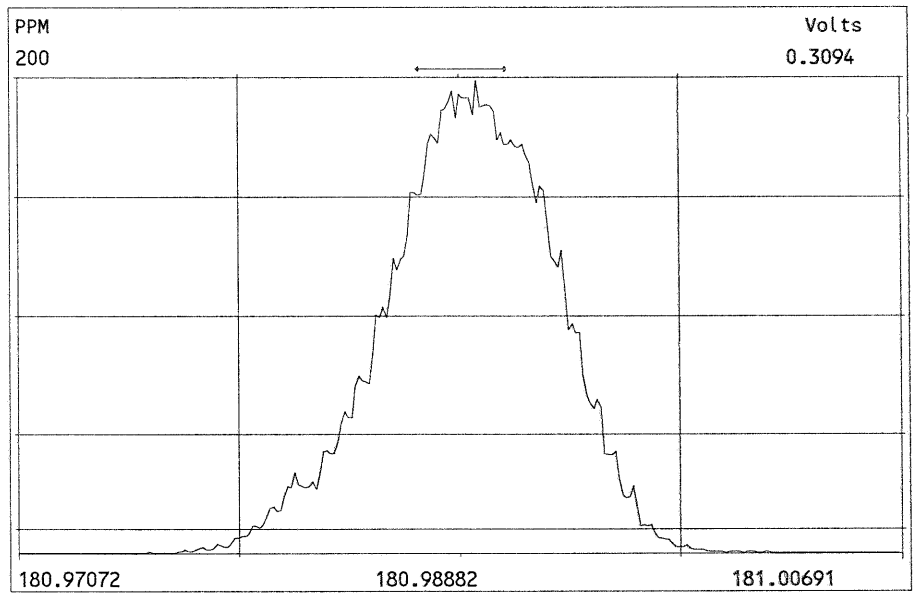
* BAD INJ
Re-inject on 02AUG19Z

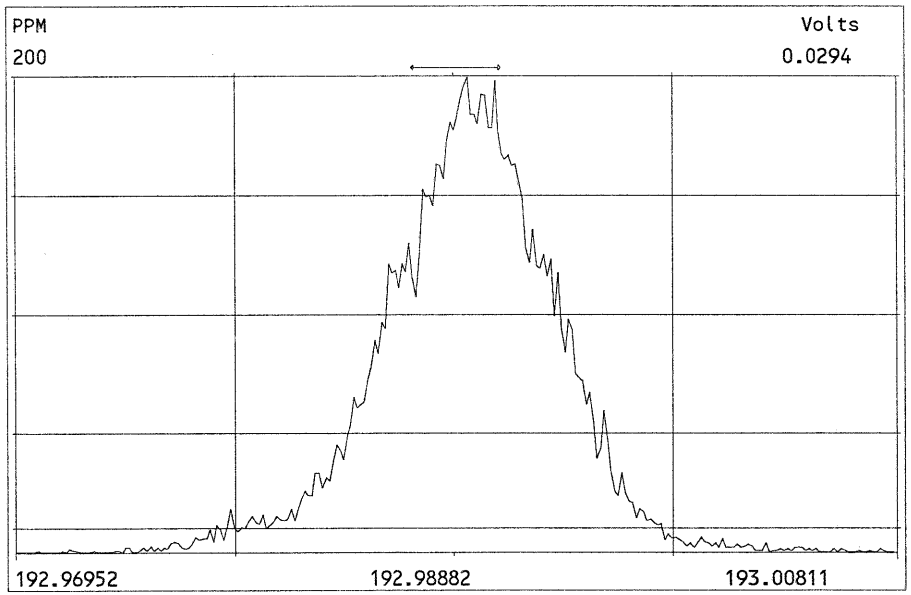
Data Backed Up:_____

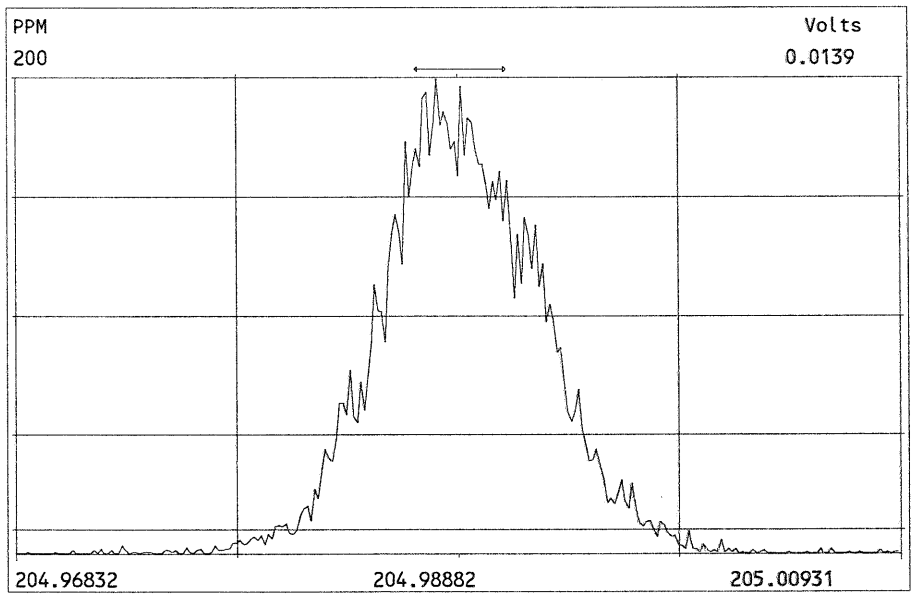
Date:_____

Peak Locate Examination: 1-AUG-2019:07:23 File:01AUG19Z
Experiment:1668PCB Function:1 Reference:PFK

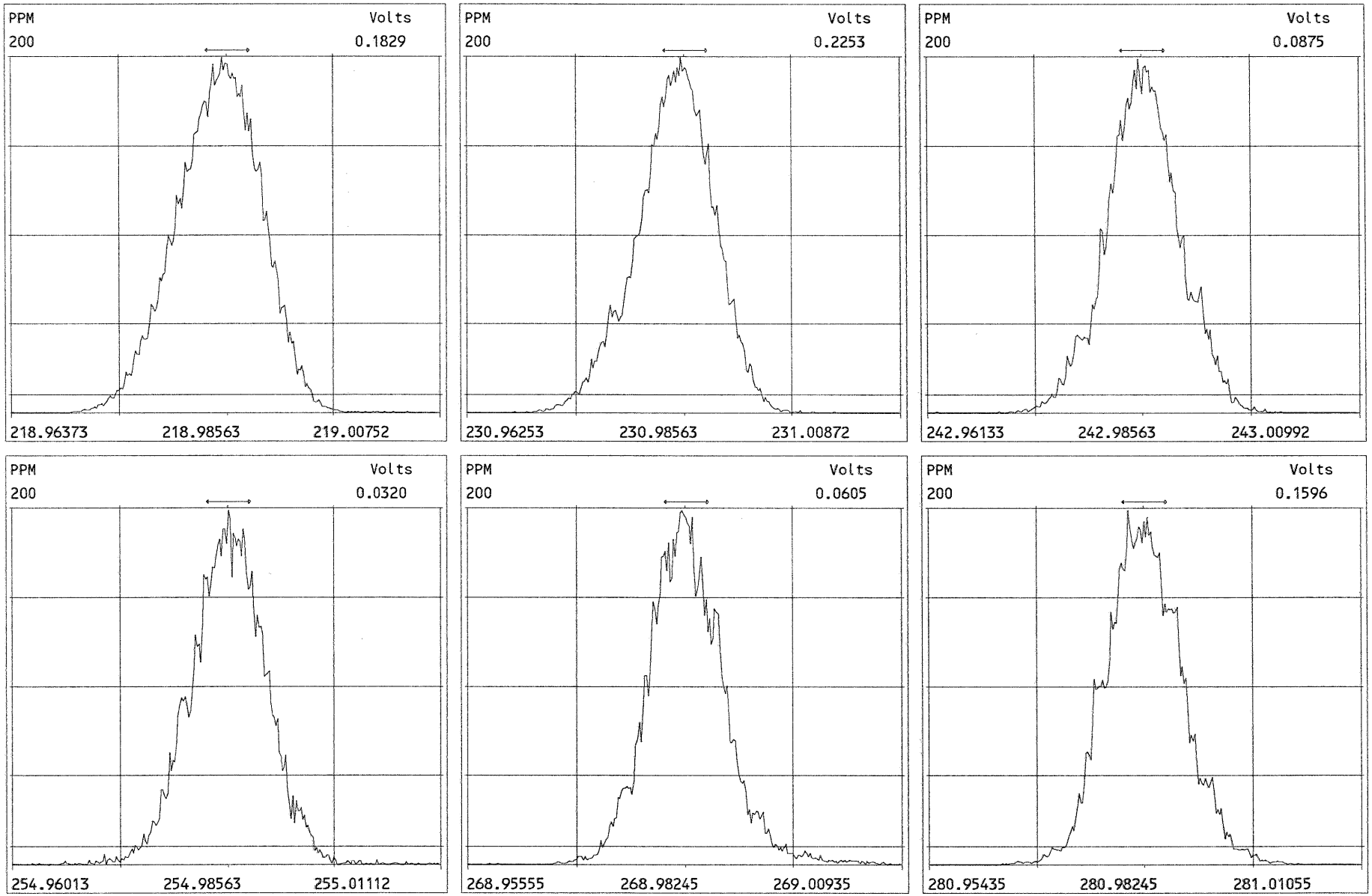




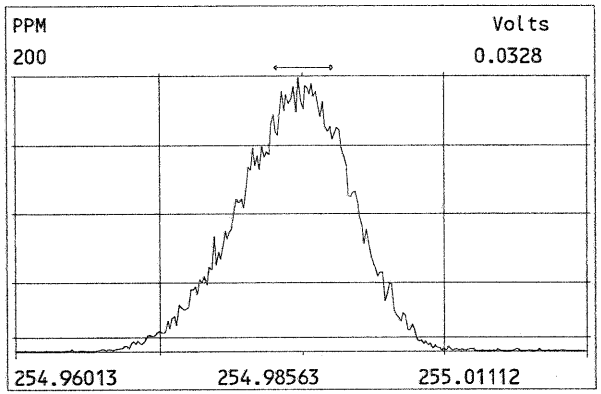


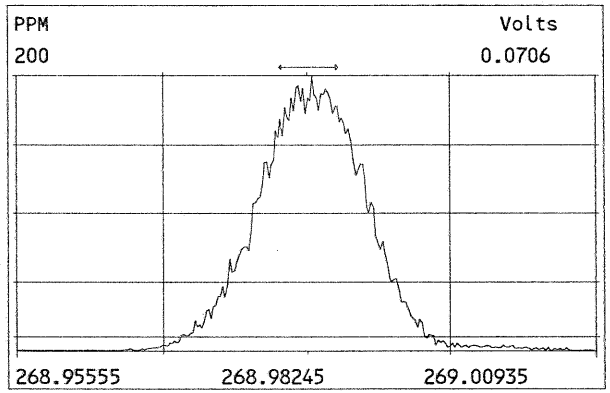


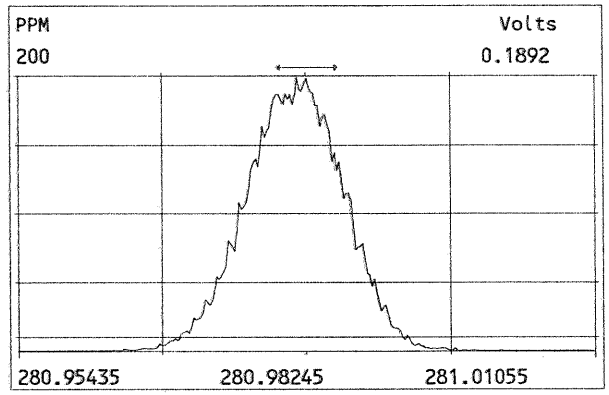
Peak Locate Examination: 1-AUG-2019:07:23 File:01AUG19Z
Experiment:1668PCB Function:2 Reference:PFK

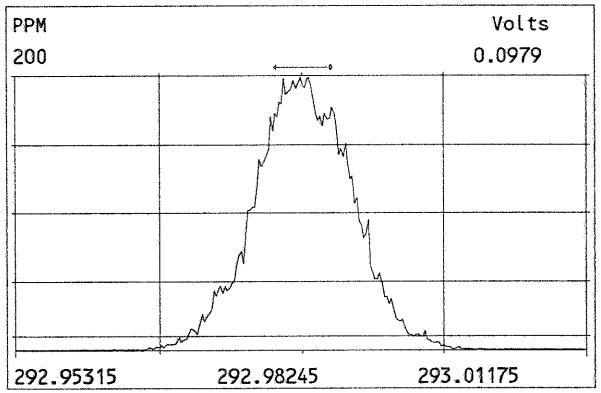


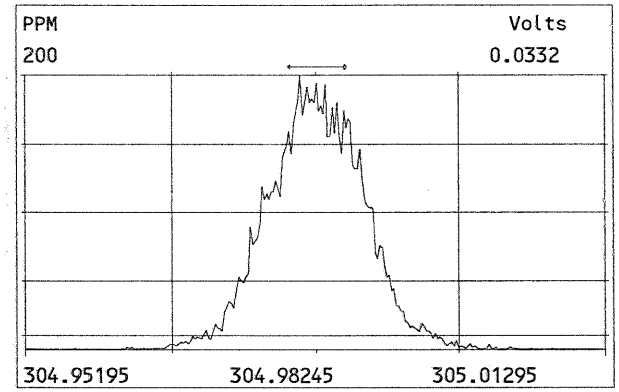
Peak Locate Examination: 1-AUG-2019:07:24 File:01AUG19Z
Experiment:1668PCB Function:3 Reference:PFK

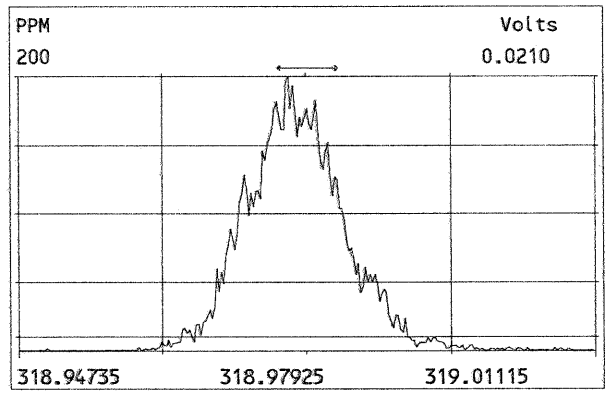


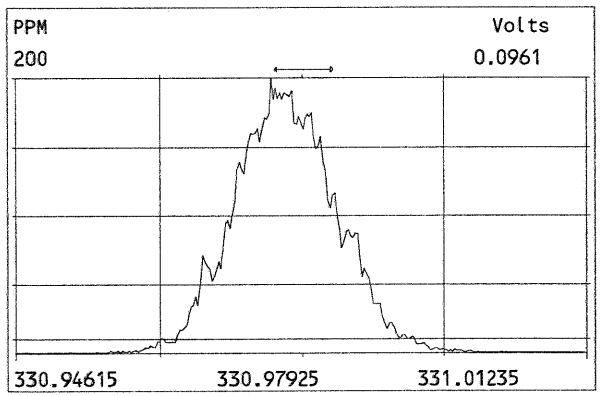


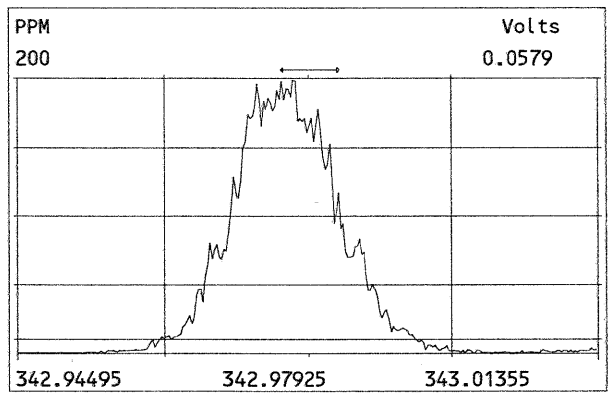




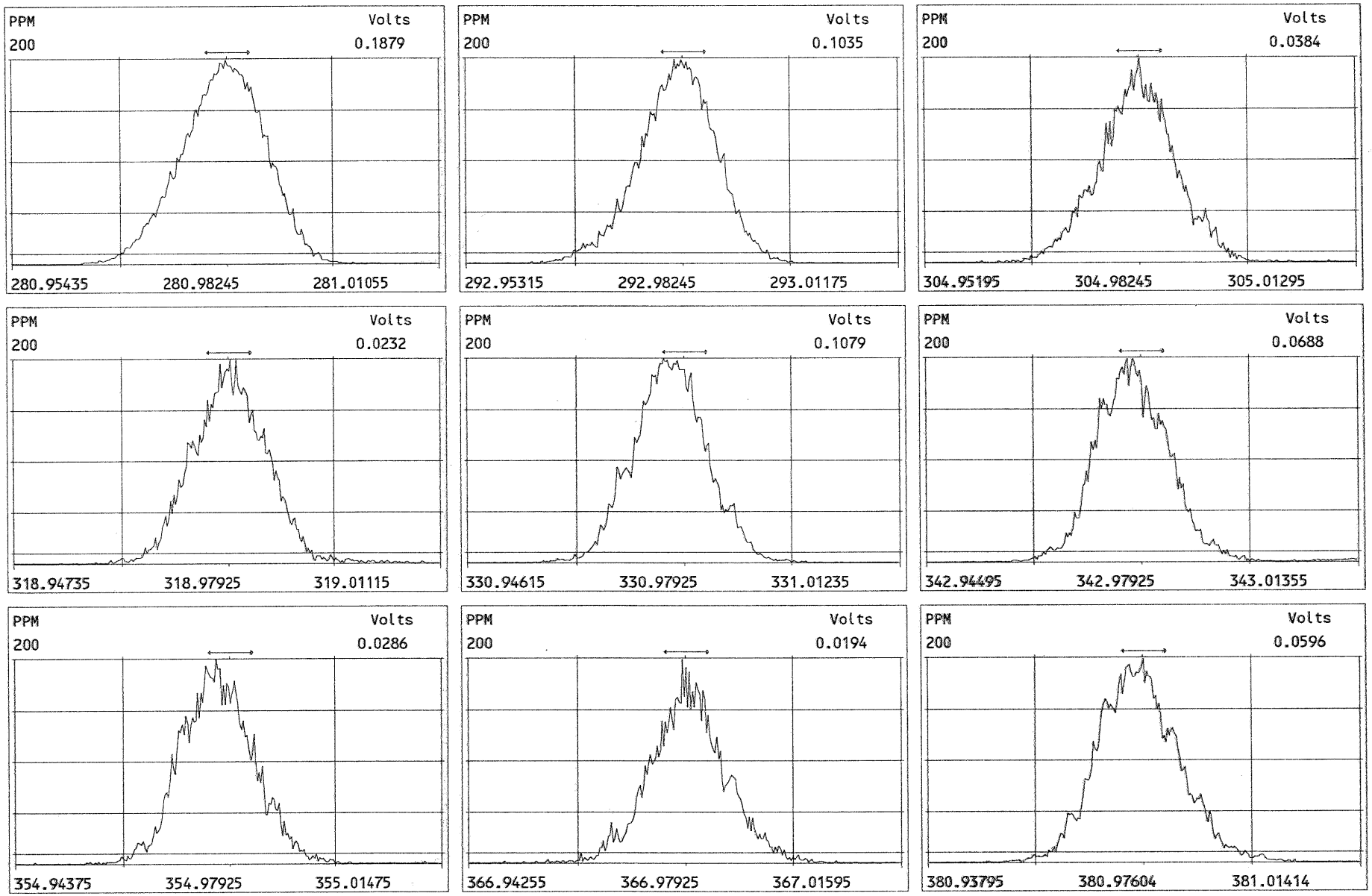




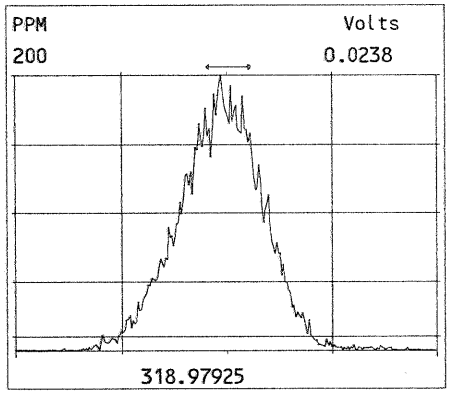


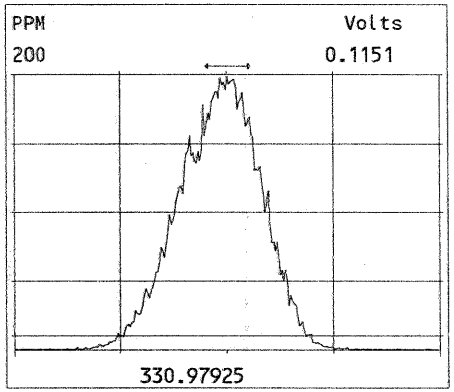


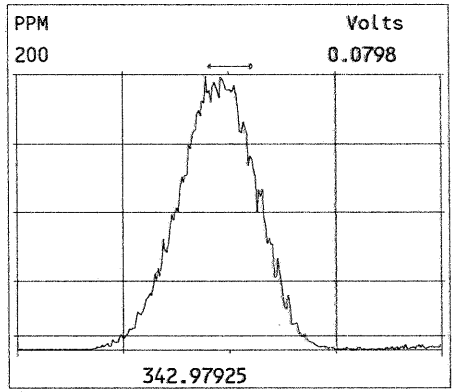
Peak Locate Examination: 1-AUG-2019:07:24 File:01AUG19Z
Experiment:1668PCB Function:4 Reference:PFK

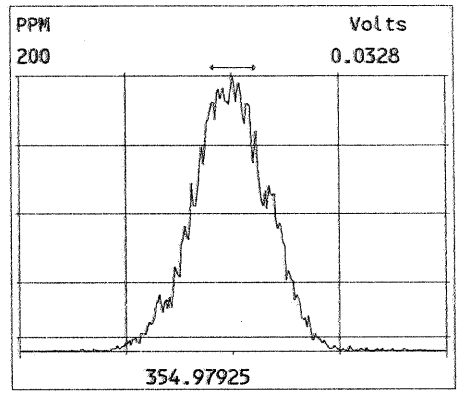


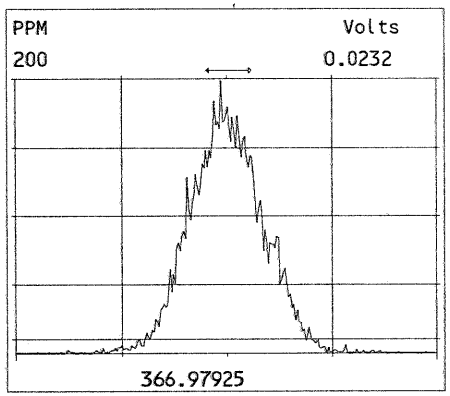
Peak Locate Examination: 1-AUG-2019:07:25 File:01AUG19Z
Experiment:1668PCB Function:5 Reference:PFK

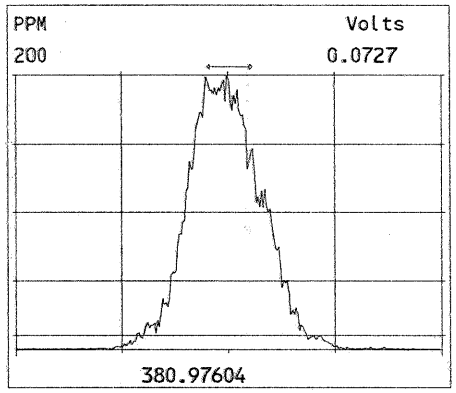


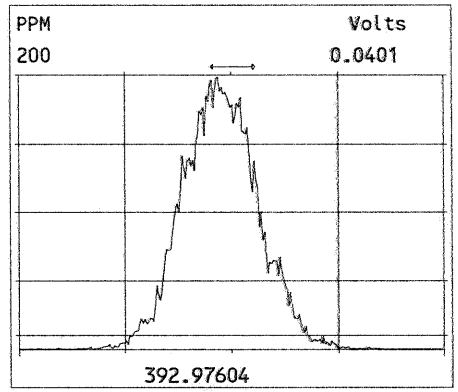


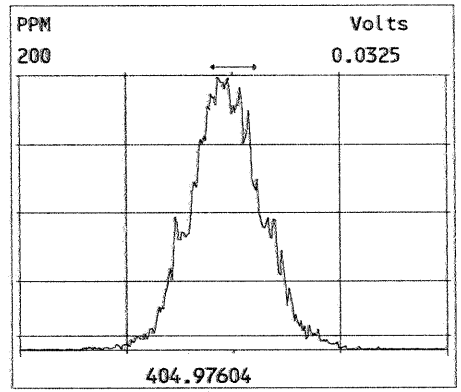


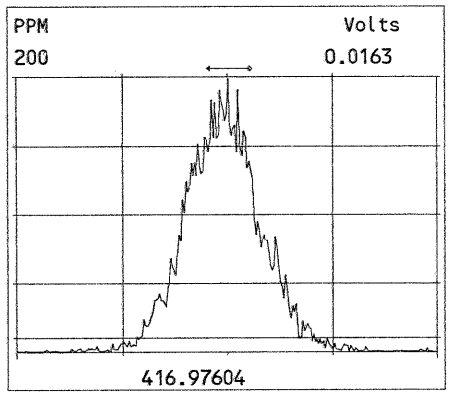


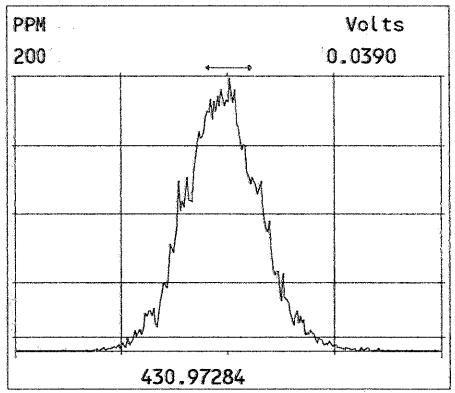


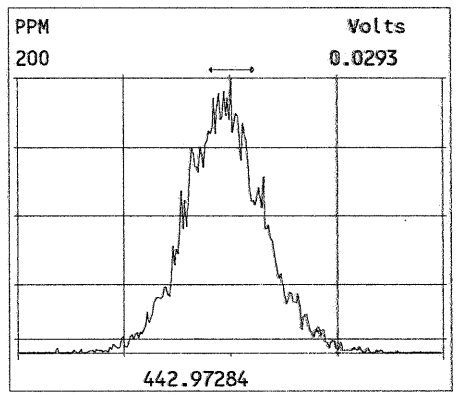




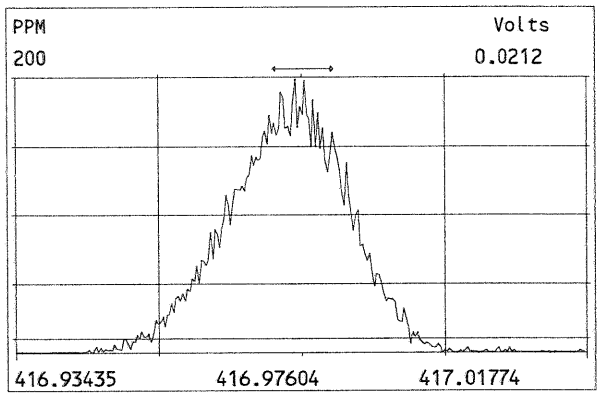


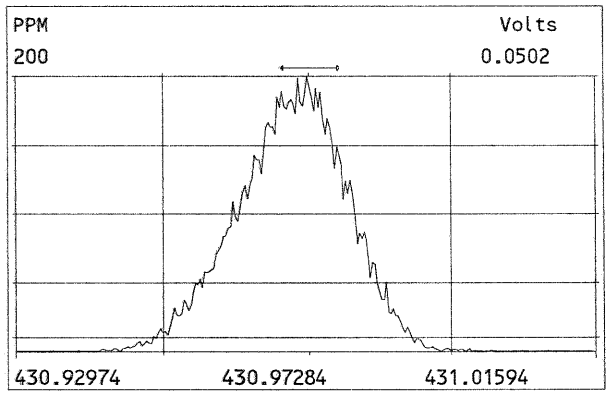


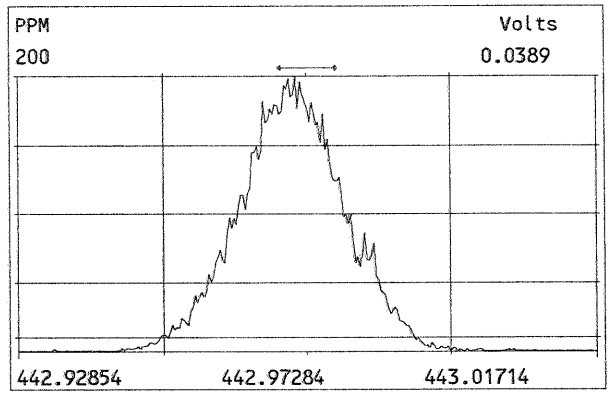


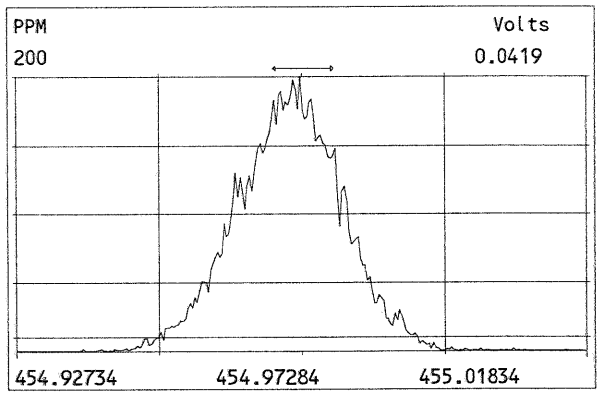


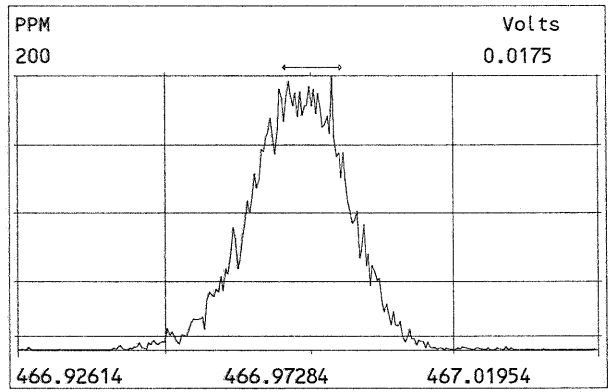
Peak Locate Examination: 1-AUG-2019:07:25 File:01AUG19Z
Experiment:1668PCB Function:6 Reference:PFK

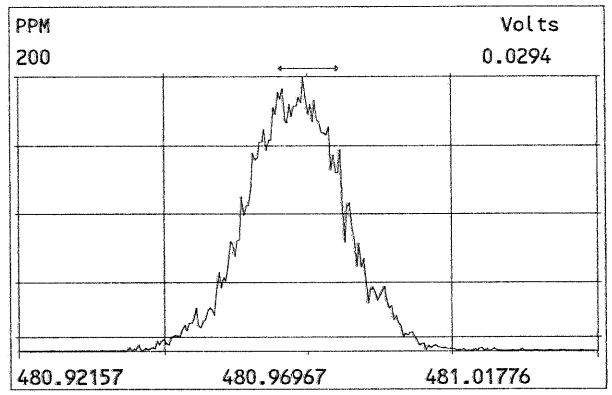


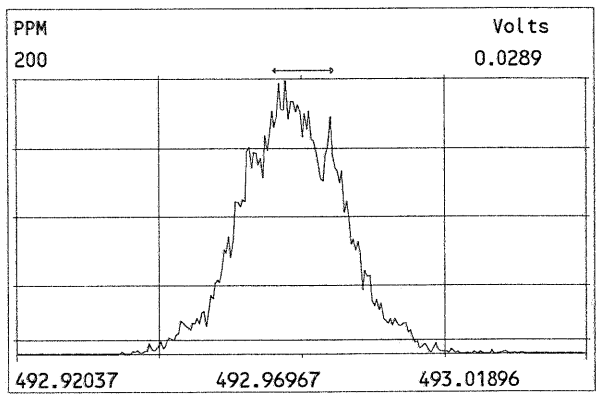


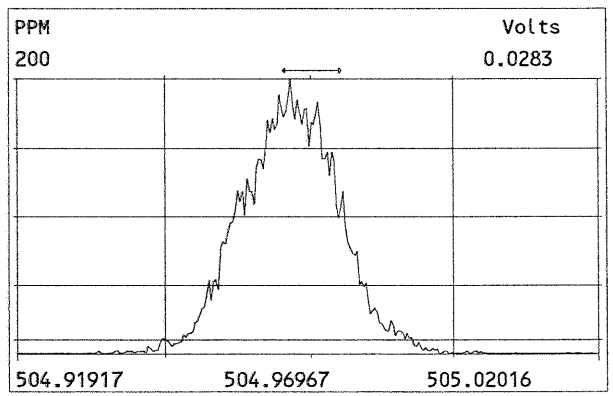


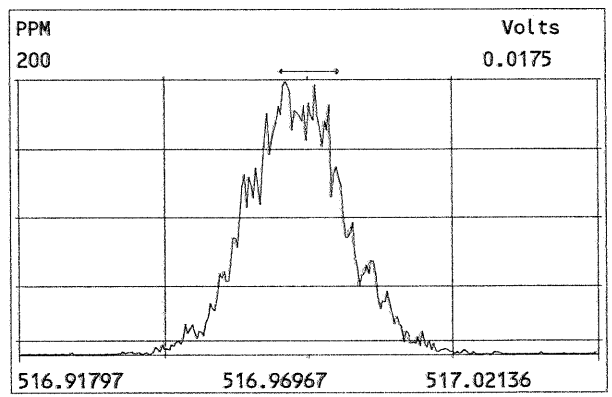




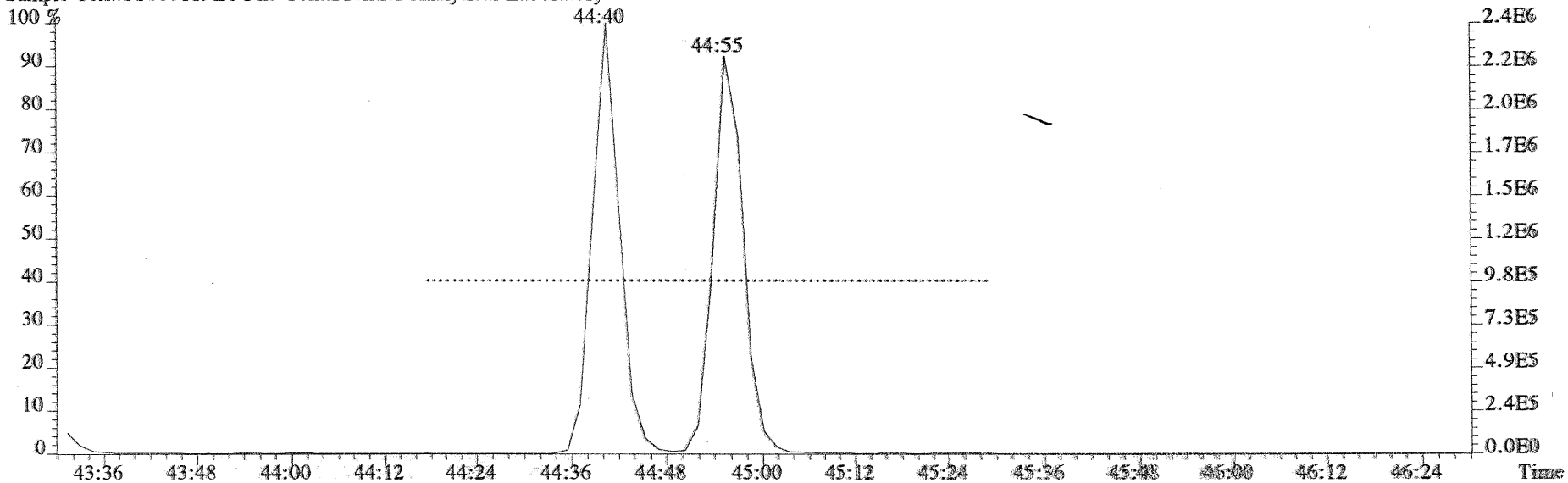




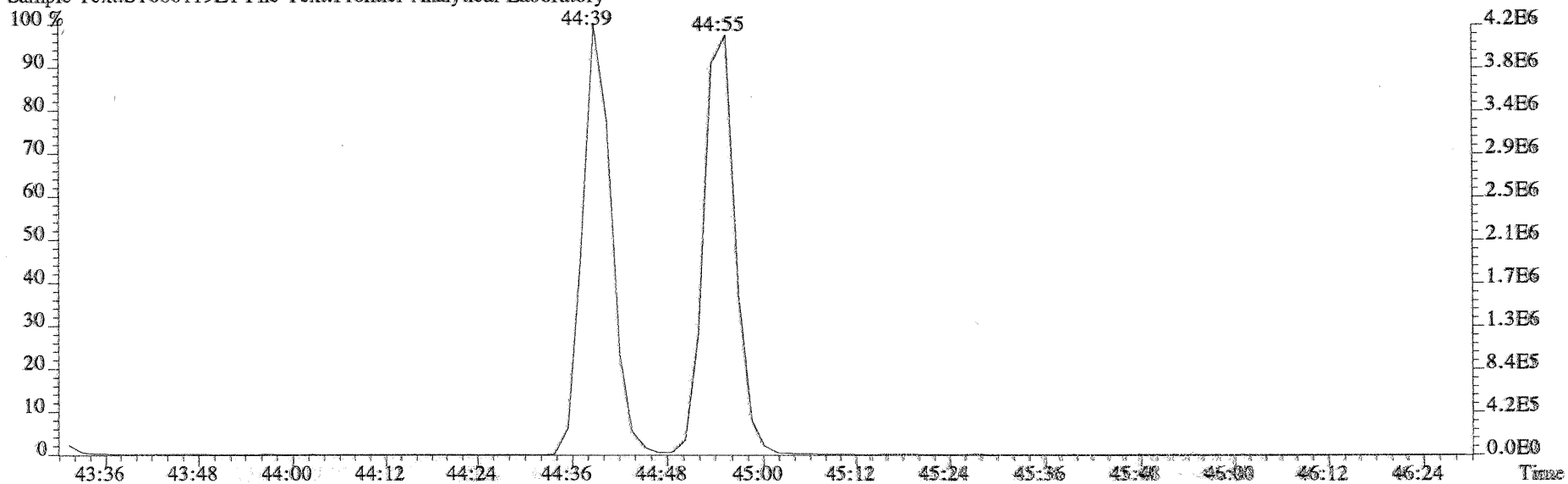




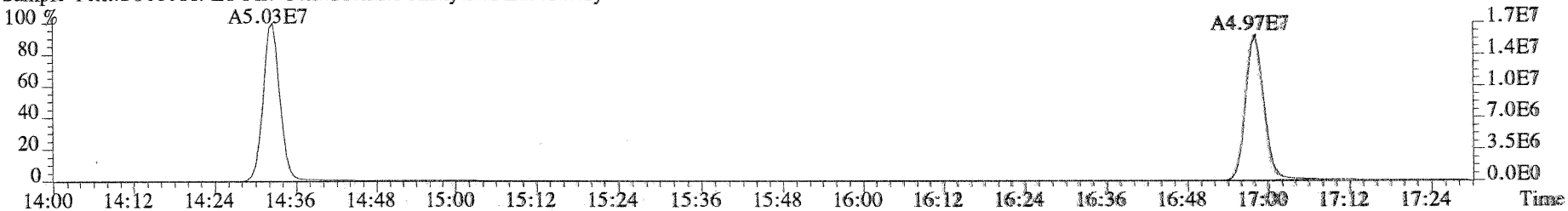
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



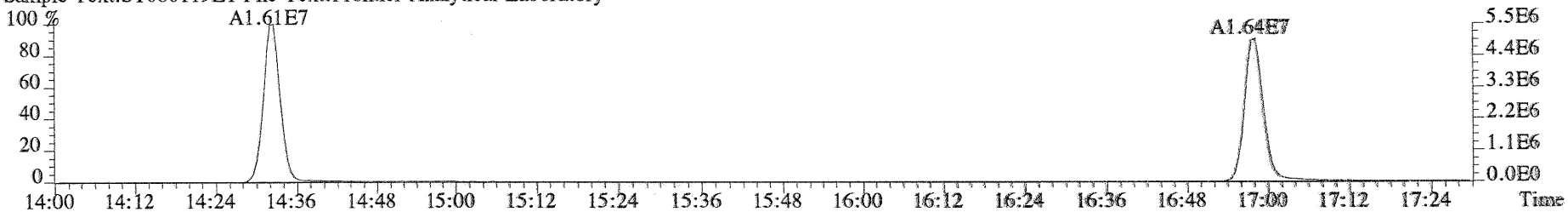
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



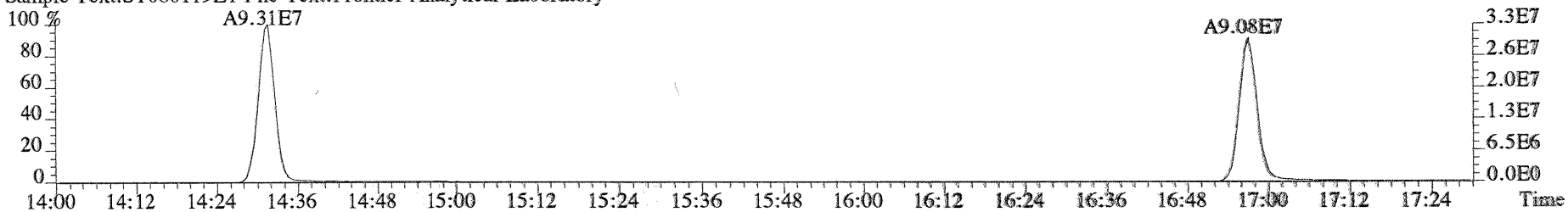
File:01AUG19Z #1-784 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



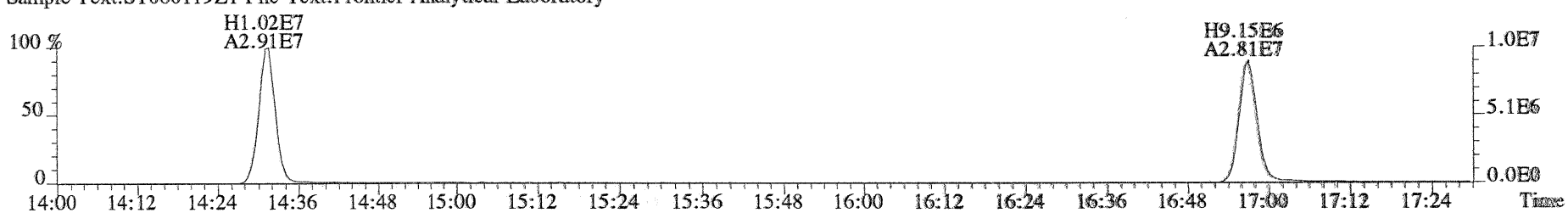
File:01AUG19Z #1-784 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



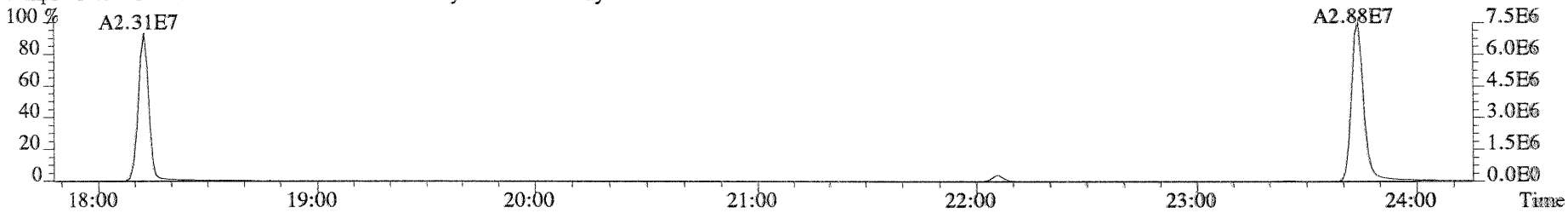
File:01AUG19Z #1-784 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



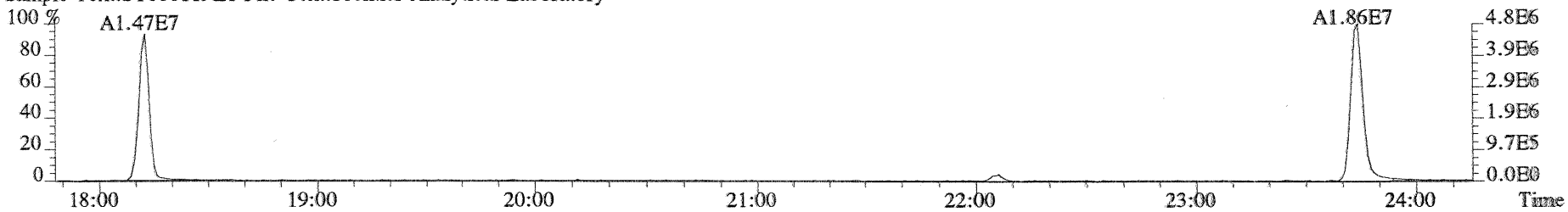
File:01AUG19Z #1-784 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



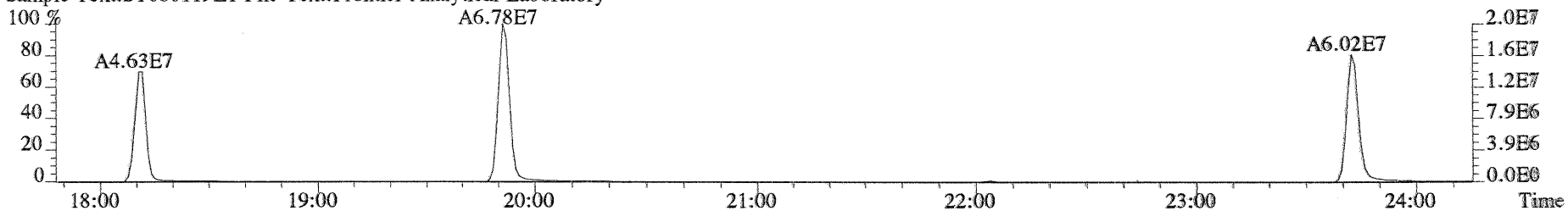
File:01AUG19Z #1-520 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



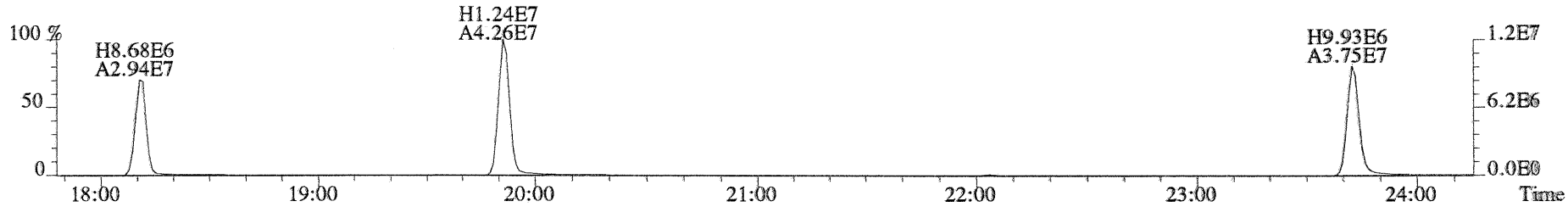
File:01AUG19Z #1-520 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
223.9975 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



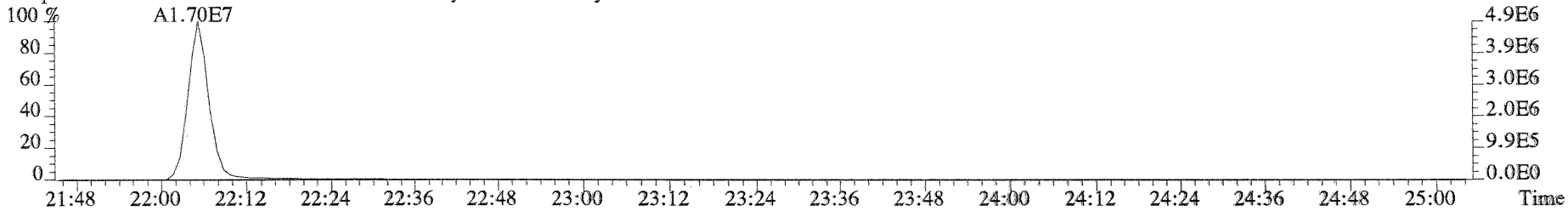
File:01AUG19Z #1-520 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



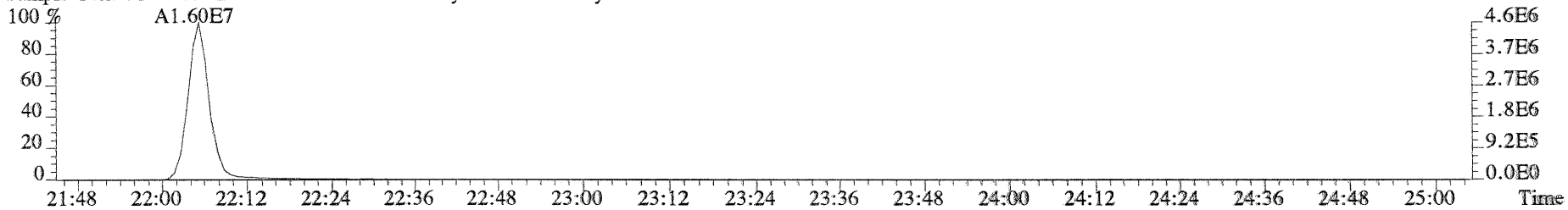
File:01AUG19Z #1-520 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



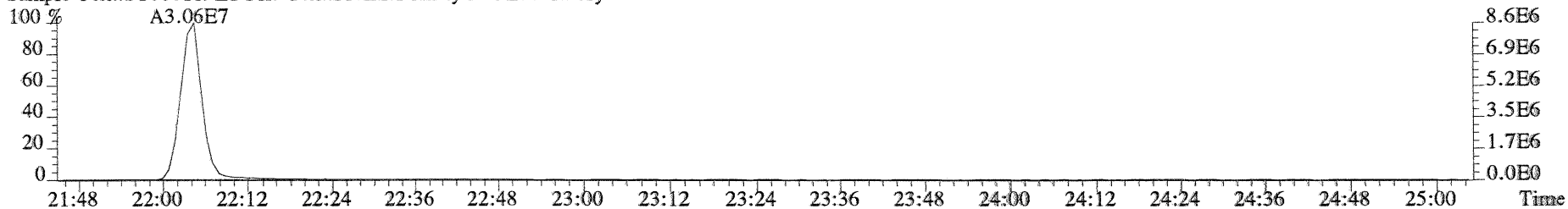
File:01AUG19Z #1-520 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



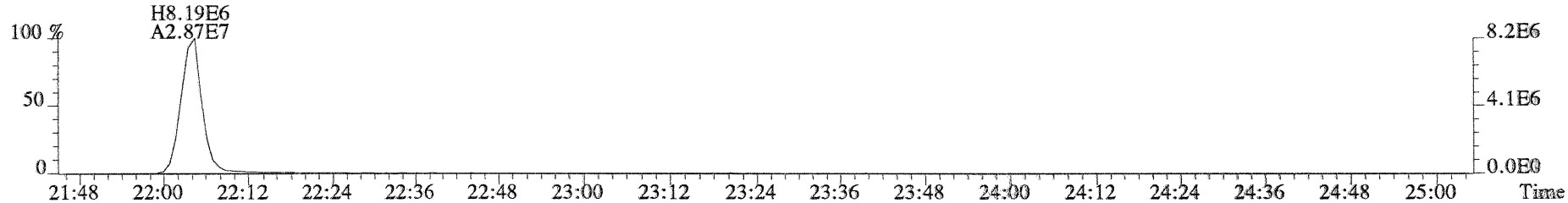
File:01AUG19Z #1-520 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



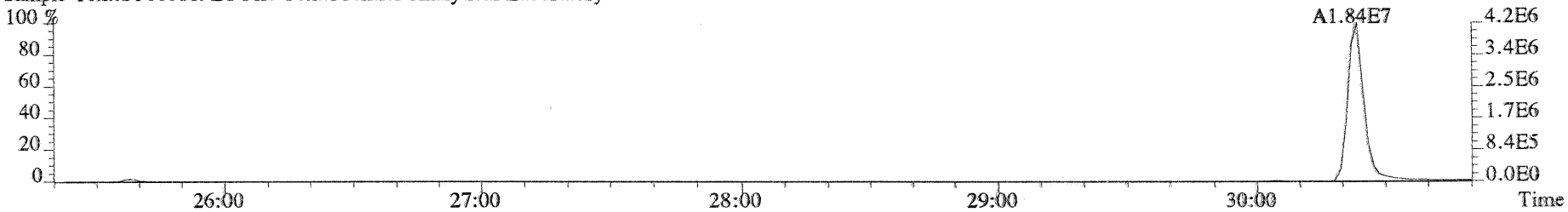
File:01AUG19Z #1-520 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



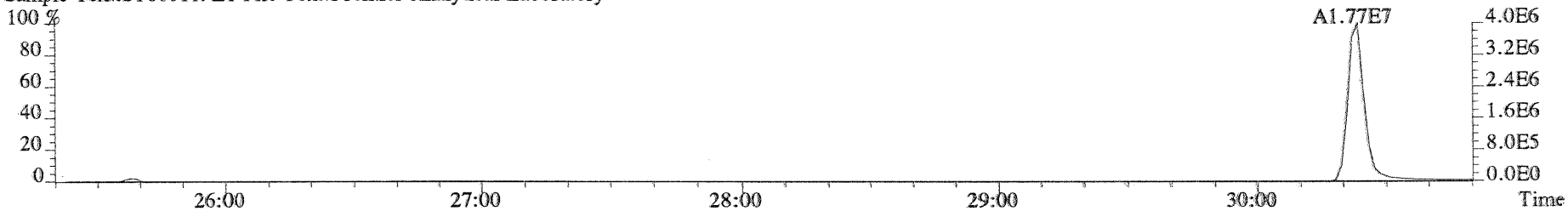
File:01AUG19Z #1-520 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



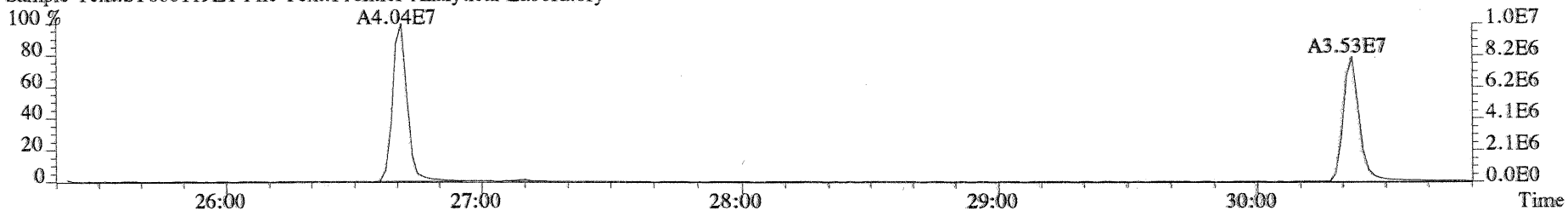
File:01AUG19Z #1-401 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



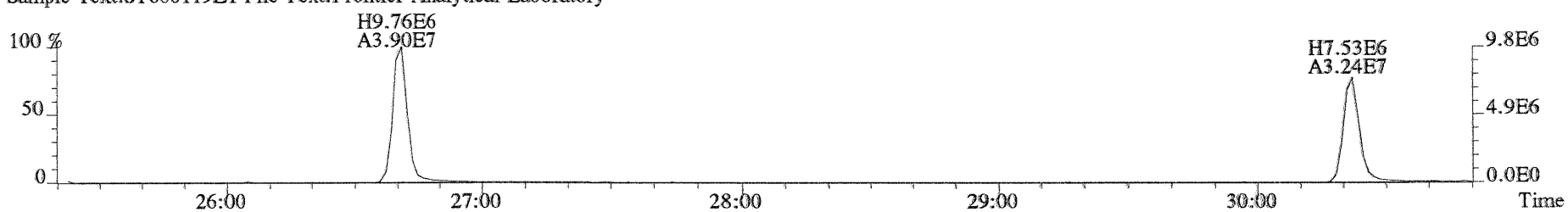
File:01AUG19Z #1-401 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



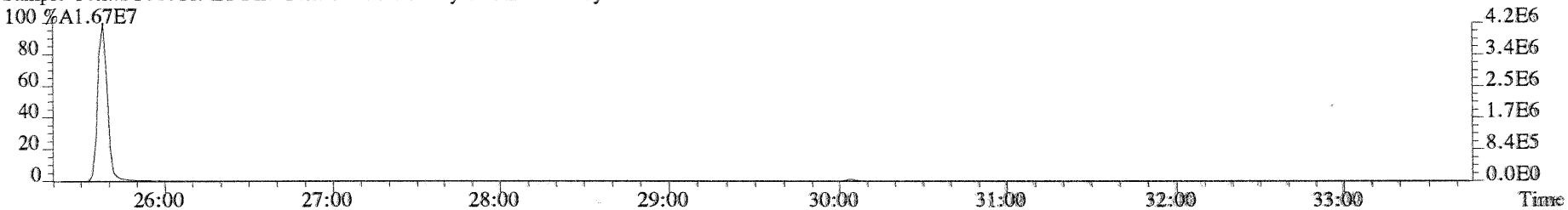
File:01AUG19Z #1-401 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



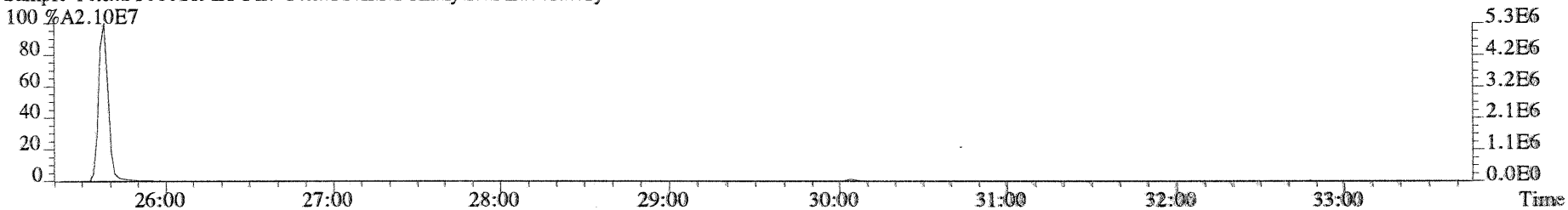
File:01AUG19Z #1-401 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



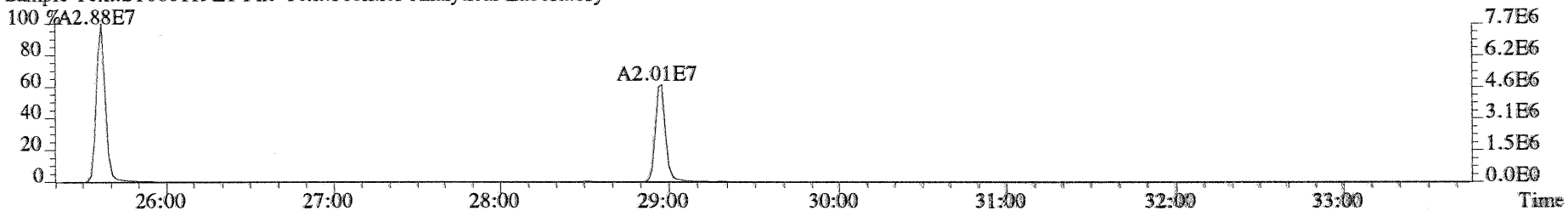
File:01AUG19Z #1-401 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



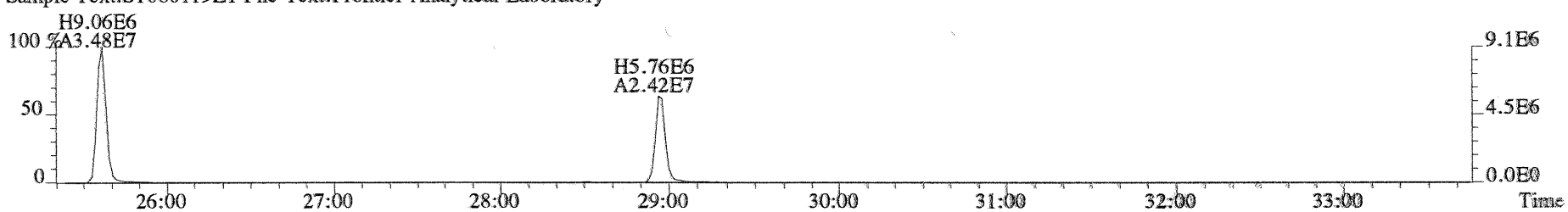
File:01AUG19Z #1-401 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



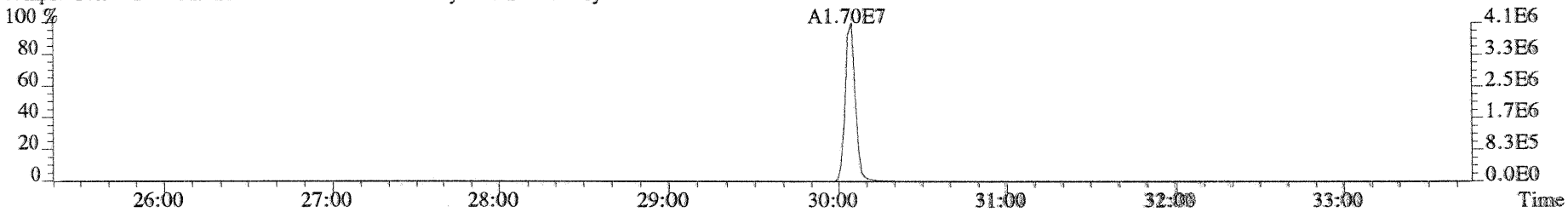
File:01AUG19Z #1-401 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



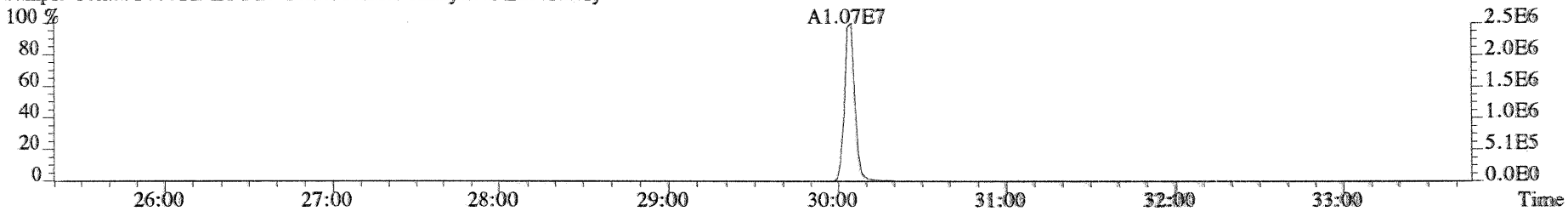
File:01AUG19Z #1-401 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



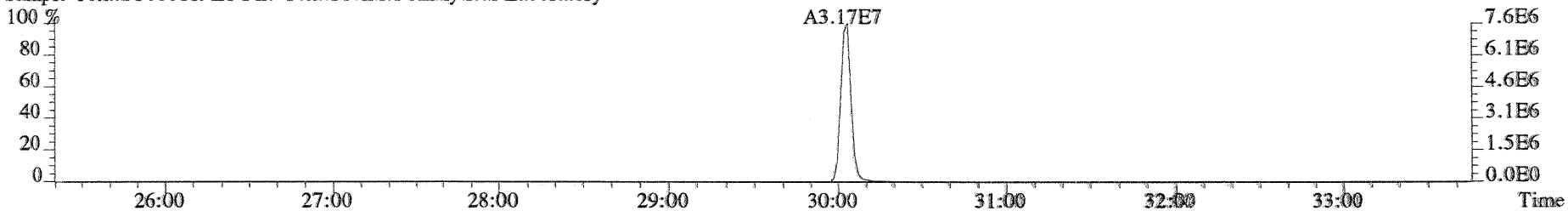
File:01AUG19Z #1-401 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



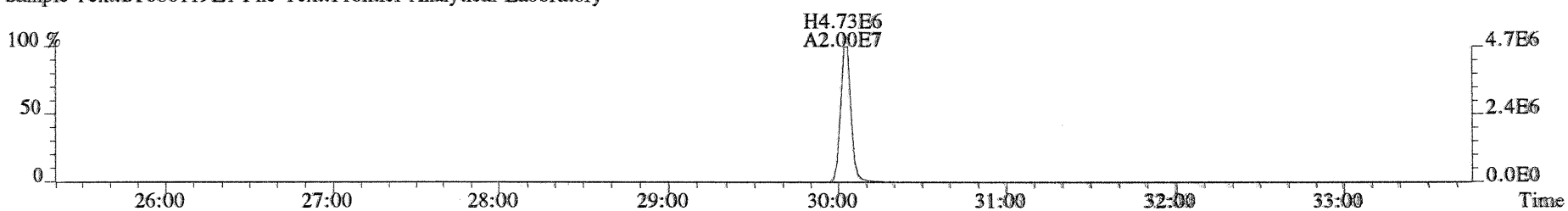
File:01AUG19Z #1-401 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



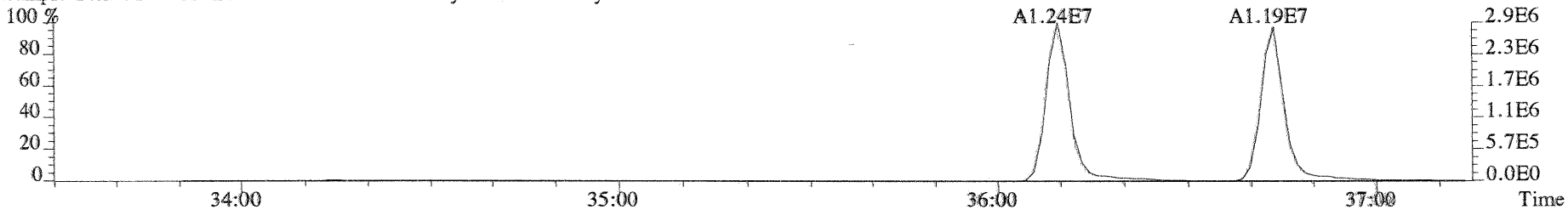
File:01AUG19Z #1-401 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



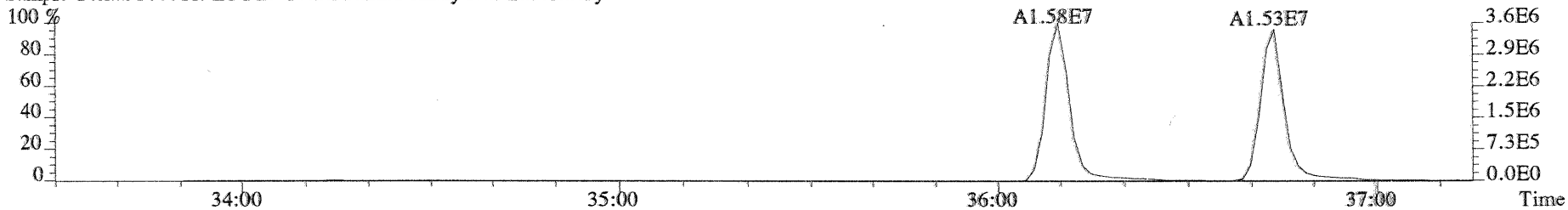
File:01AUG19Z #1-401 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



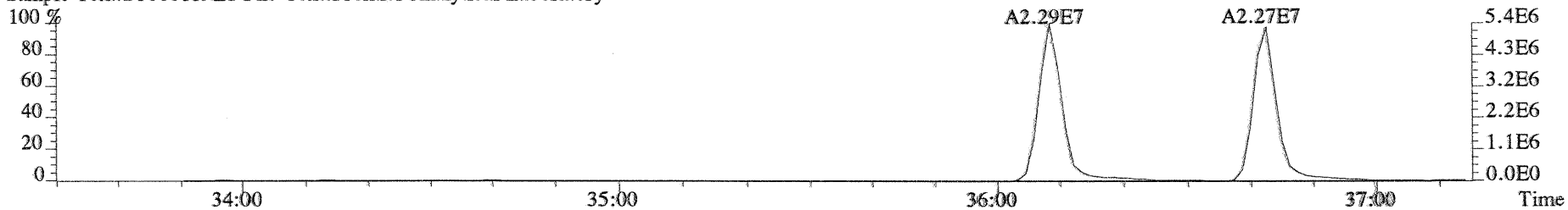
File:01AUG19Z #1-181 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



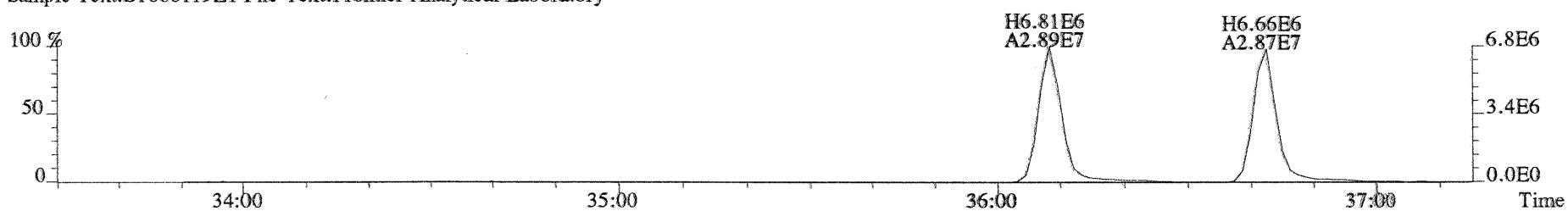
File:01AUG19Z #1-181 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



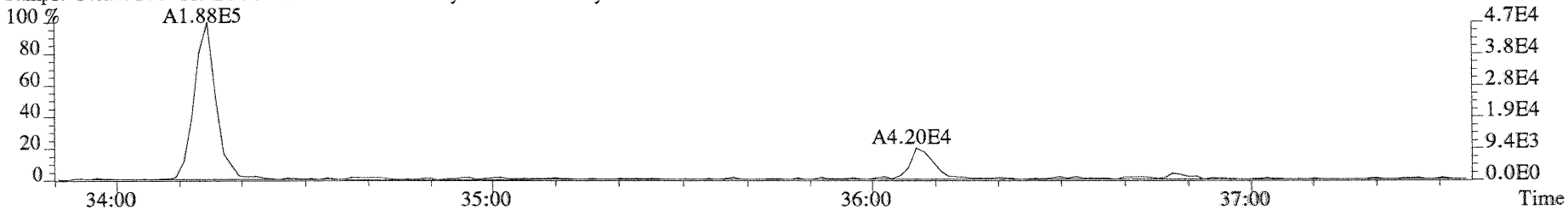
File:01AUG19Z #1-181 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



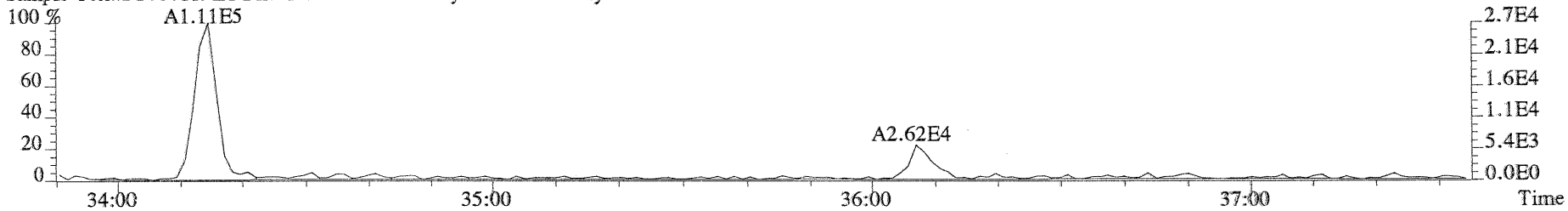
File:01AUG19Z #1-181 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



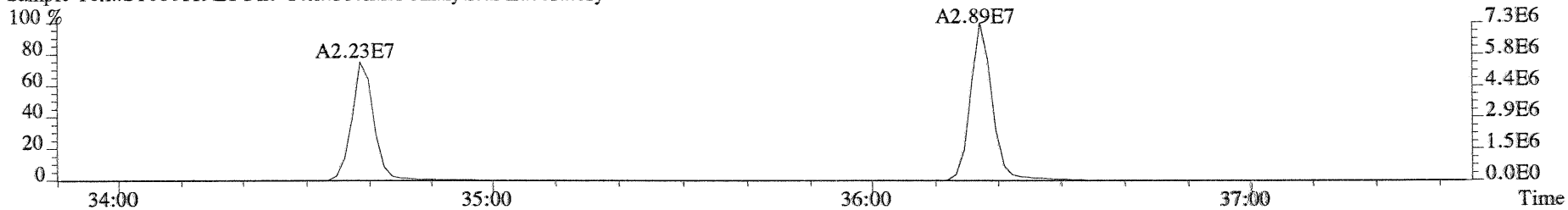
File:01AUG19Z #1-181 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



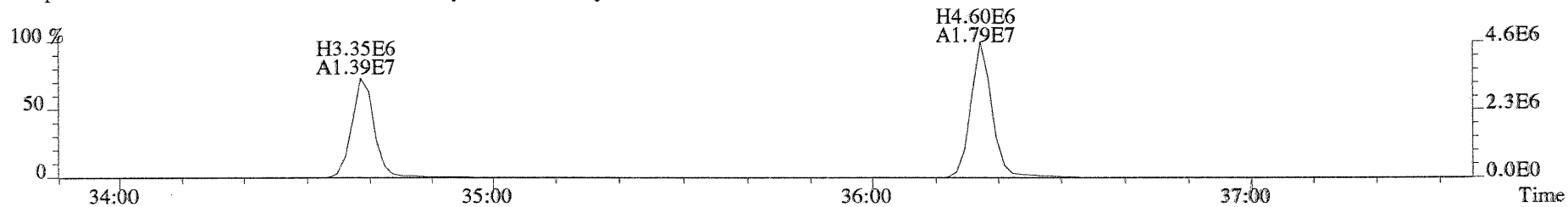
File:01AUG19Z #1-181 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



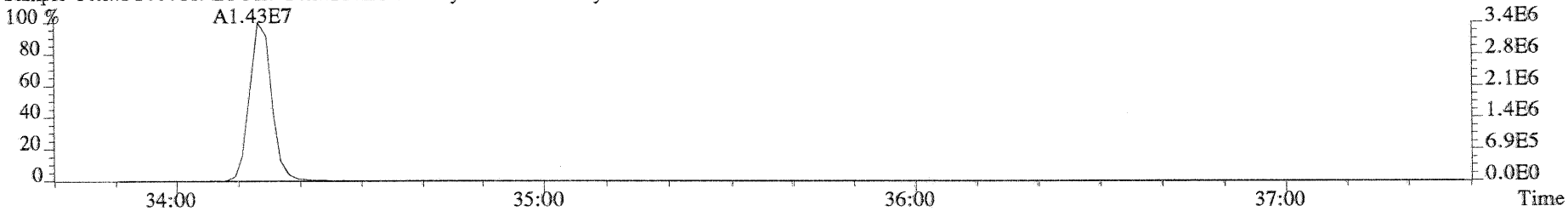
File:01AUG19Z #1-181 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



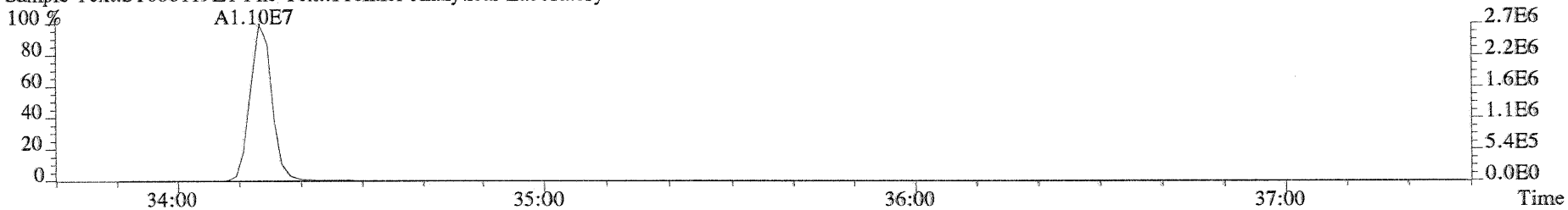
File:01AUG19Z #1-181 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



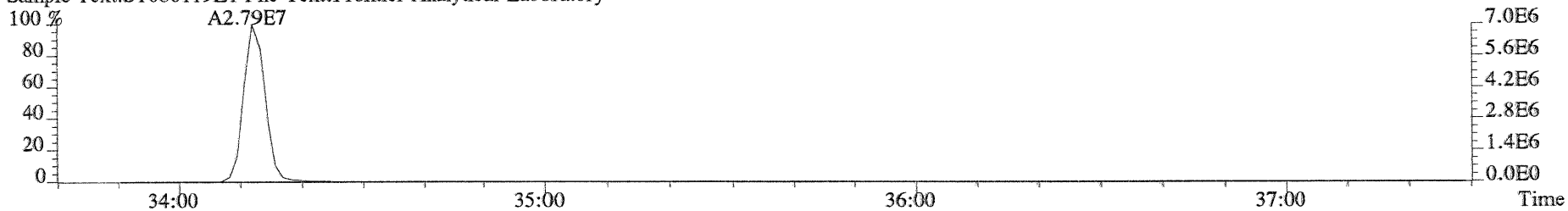
File:01AUG19Z #1-181 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



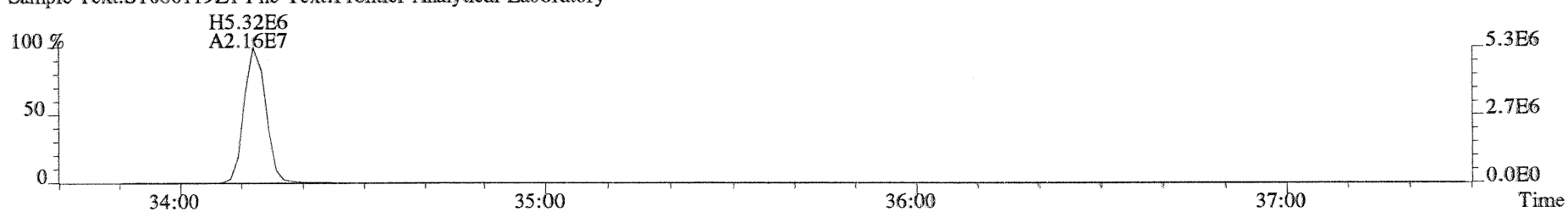
File:01AUG19Z #1-181 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



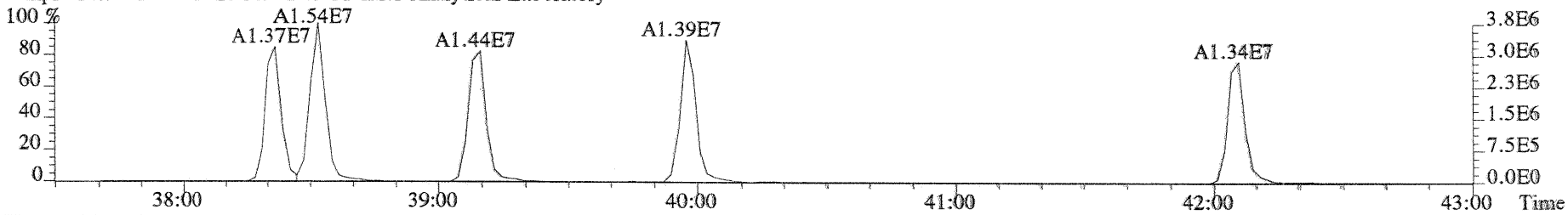
File:01AUG19Z #1-181 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



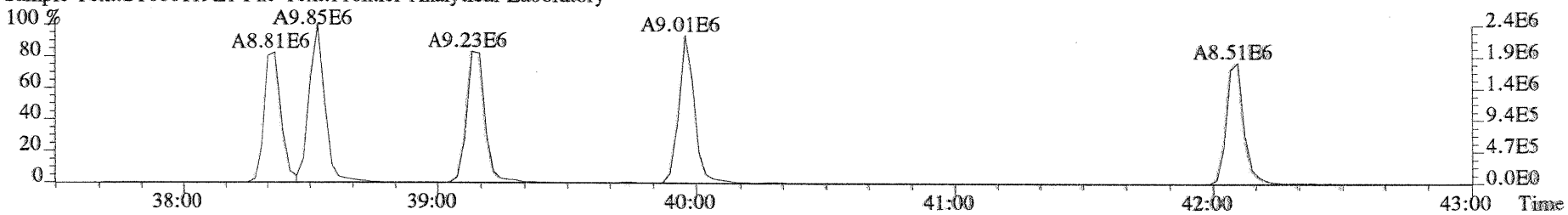
File:01AUG19Z #1-181 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



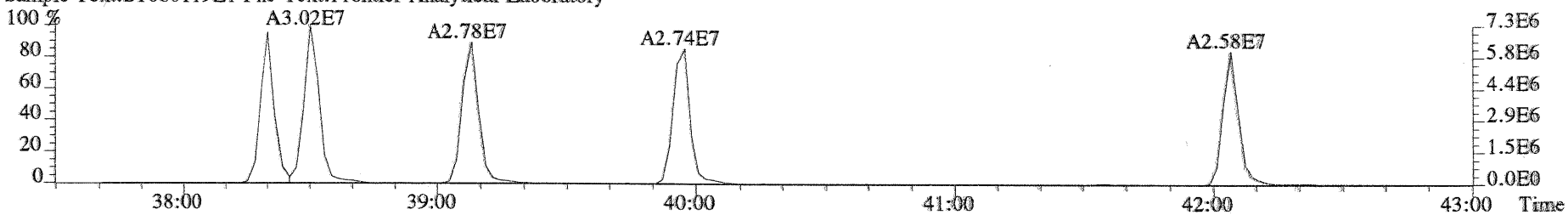
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



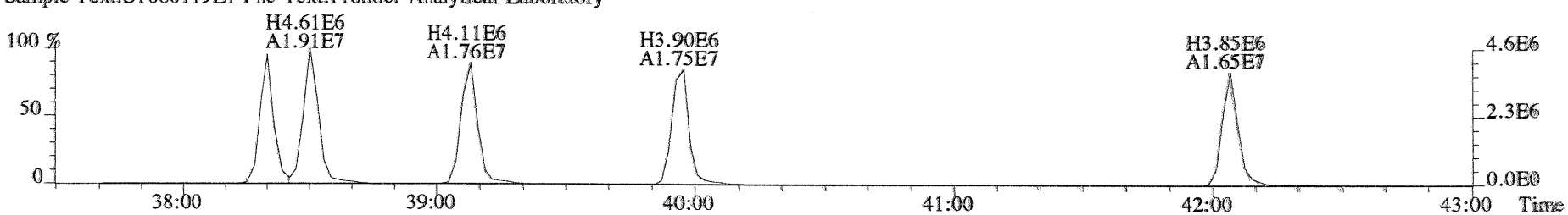
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



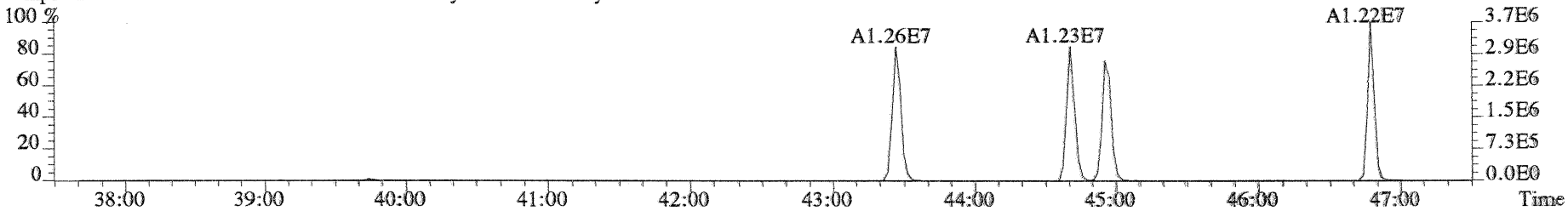
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



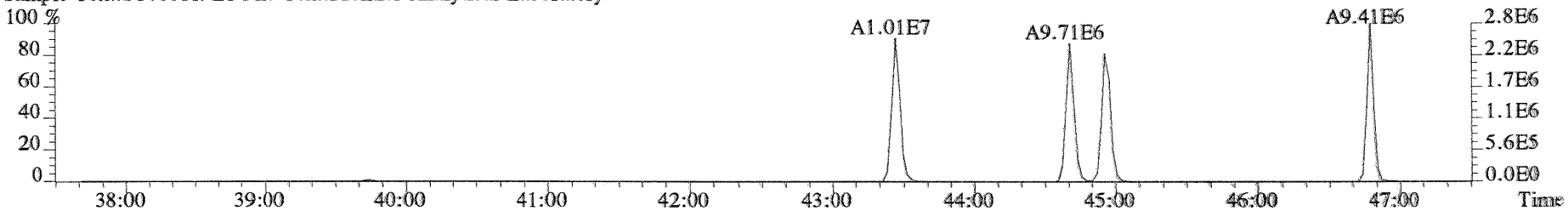
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



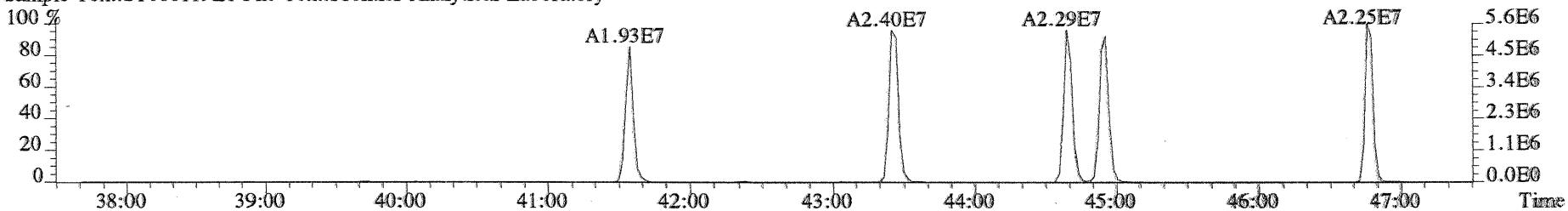
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



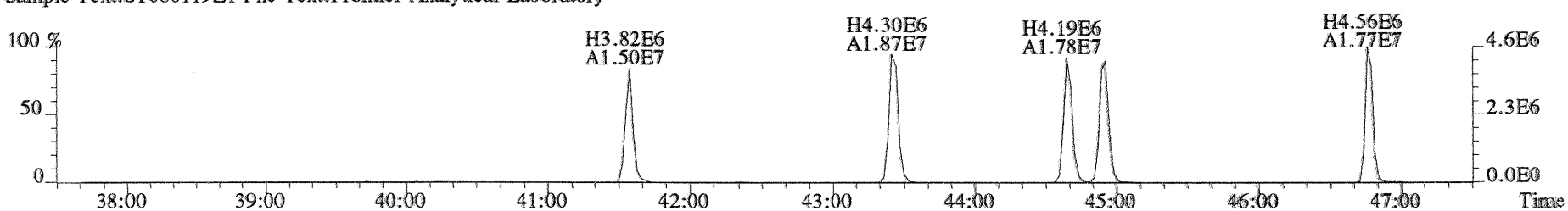
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



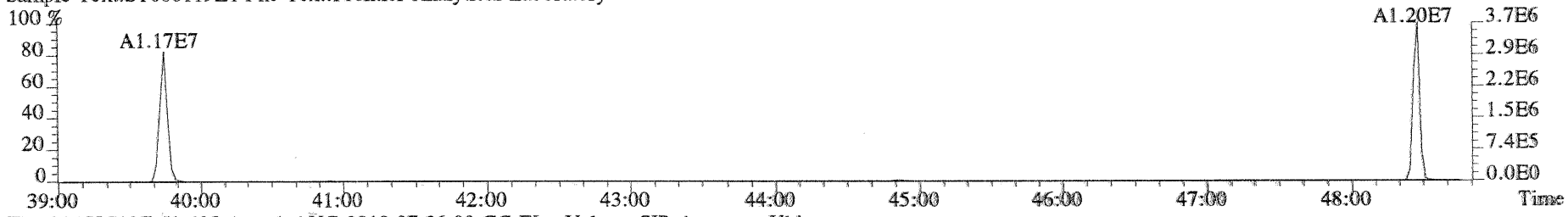
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



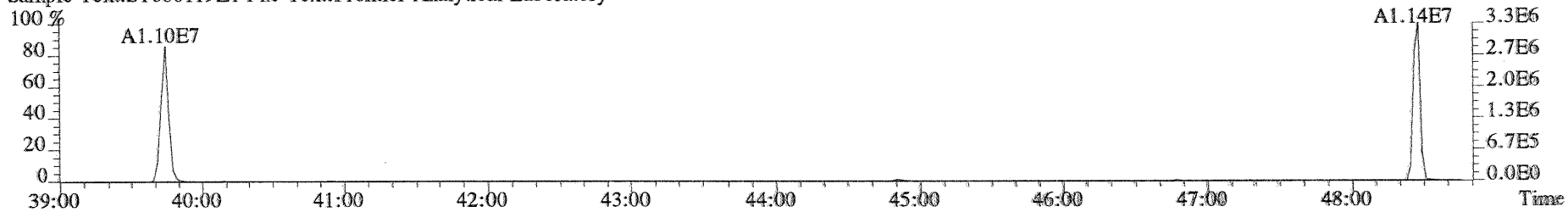
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



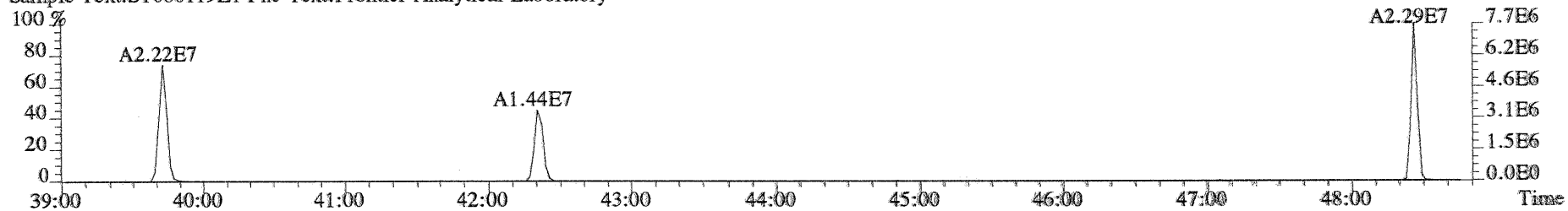
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



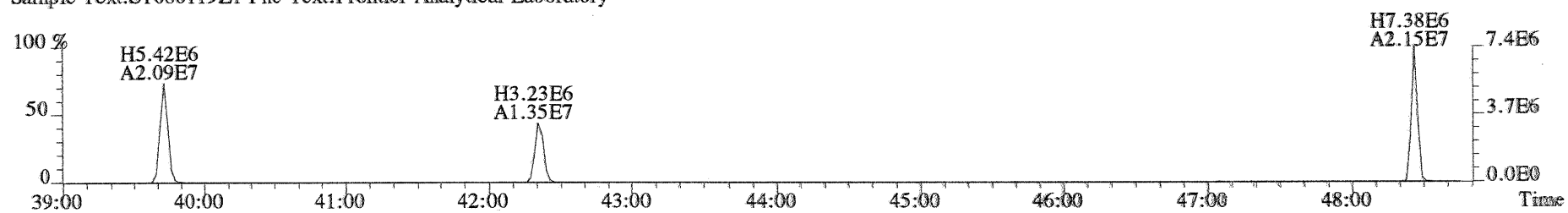
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



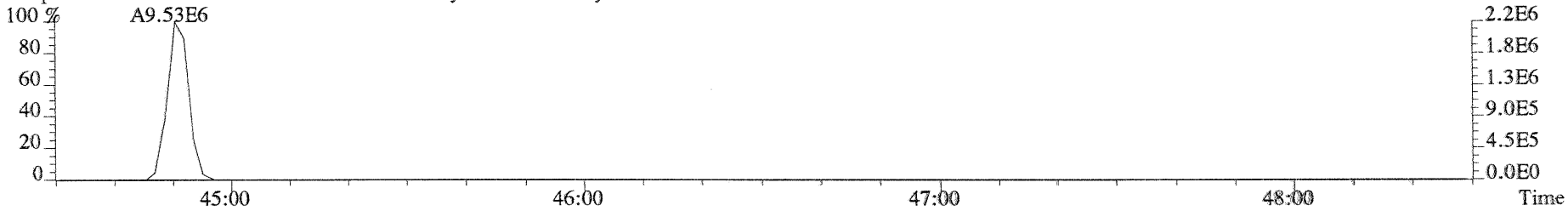
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



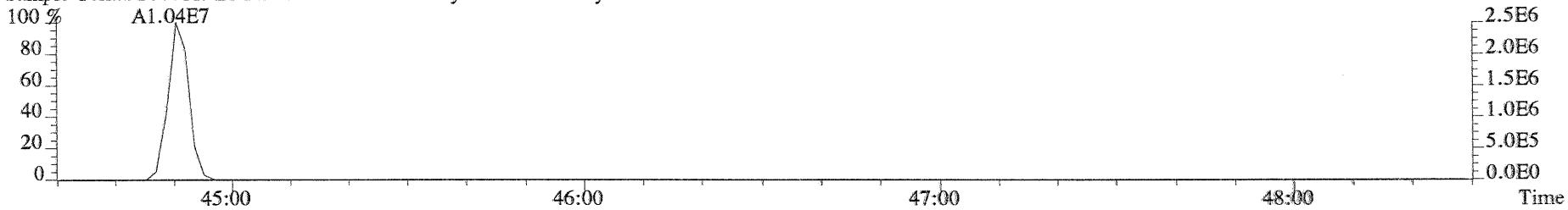
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



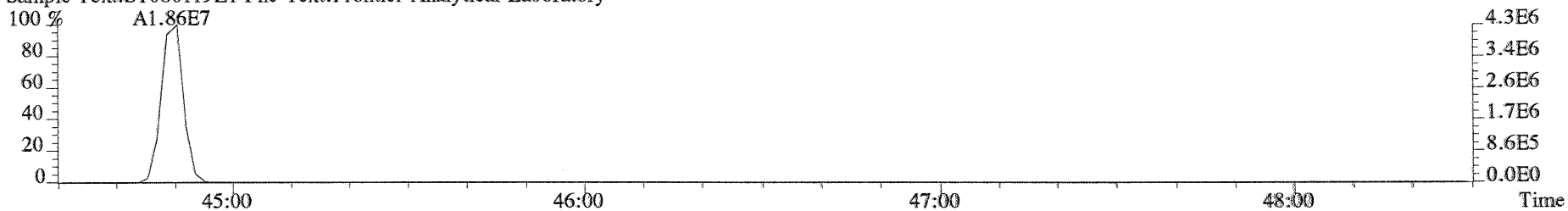
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



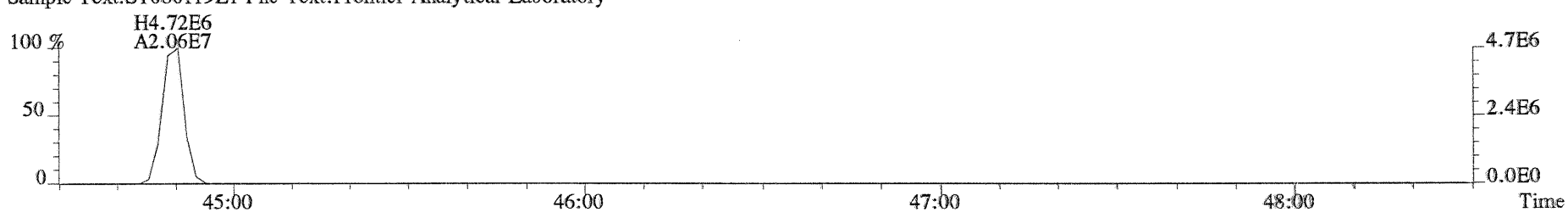
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



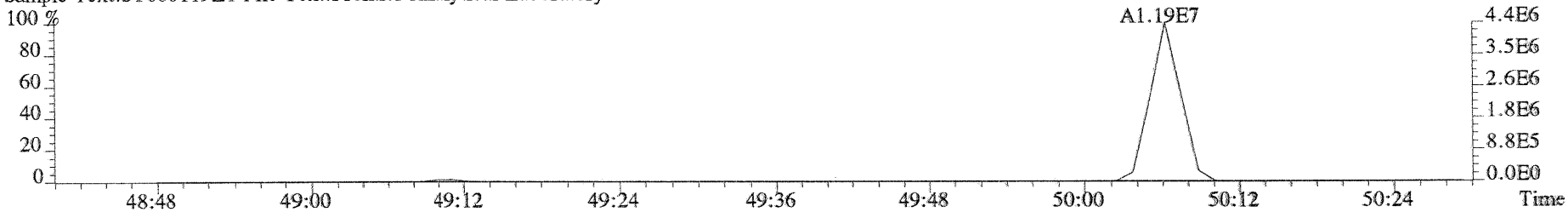
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



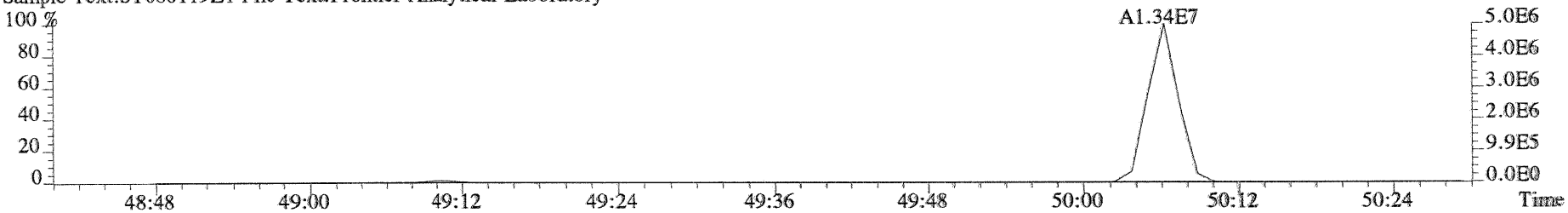
File:01AUG19Z #1-405 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



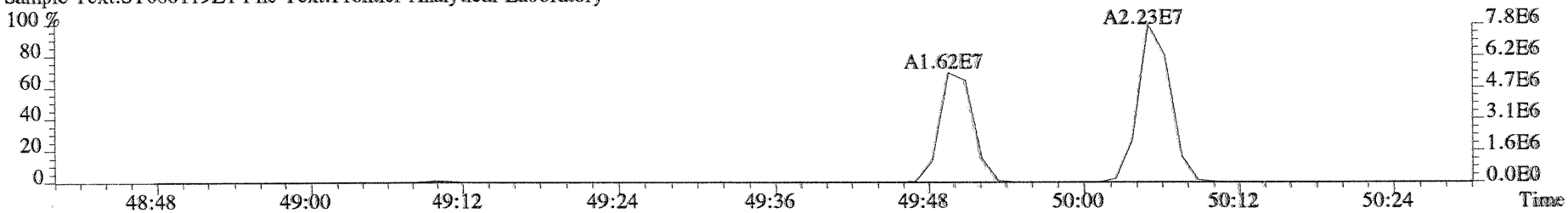
File:01AUG19Z #1-315 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



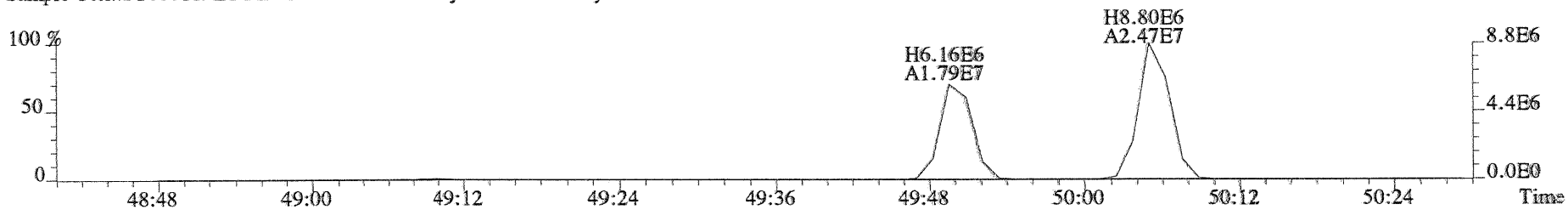
File:01AUG19Z #1-315 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



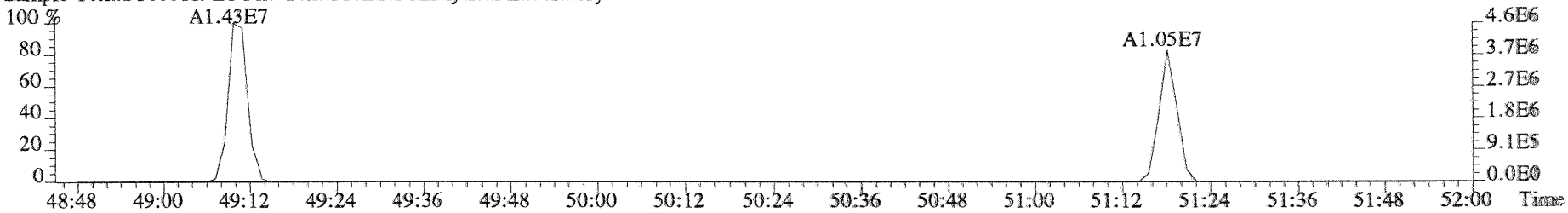
File:01AUG19Z #1-315 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



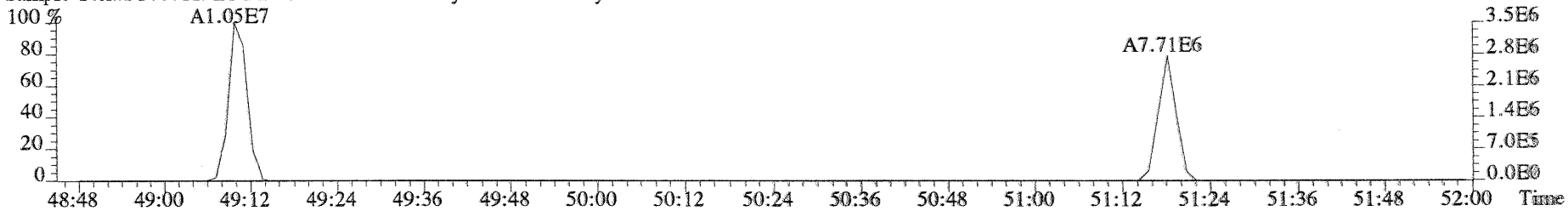
File:01AUG19Z #1-315 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



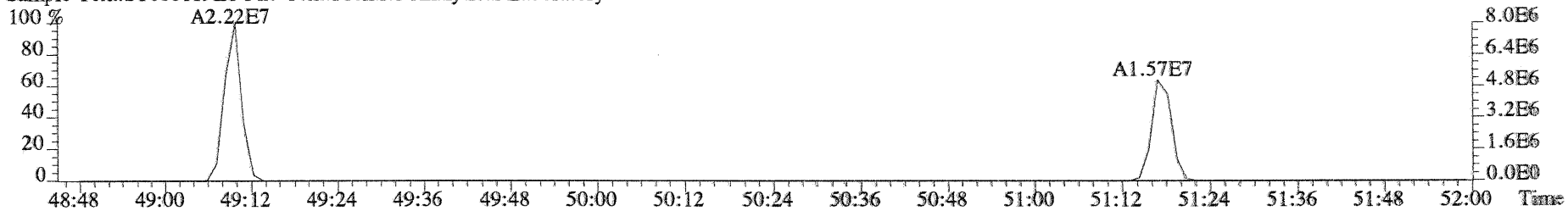
File:01AUG19Z #1-315 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



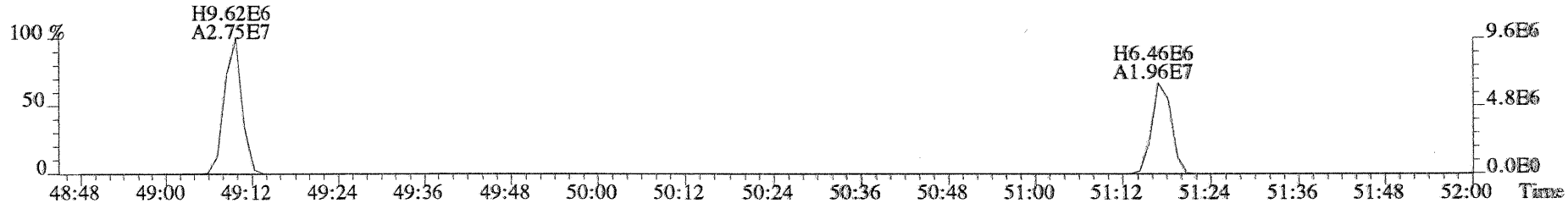
File:01AUG19Z #1-315 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



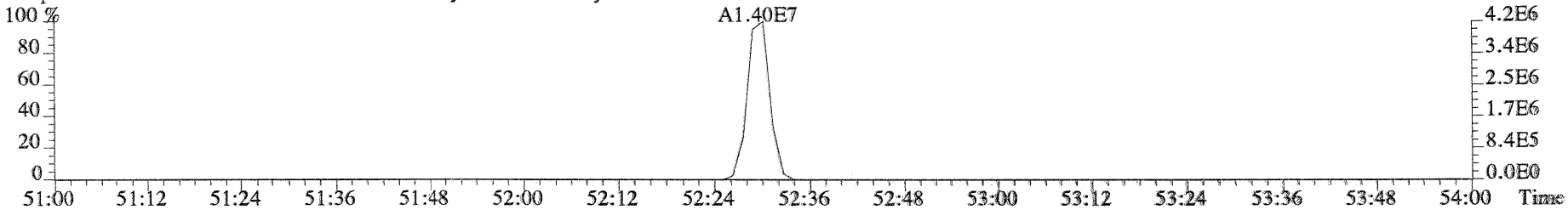
File:01AUG19Z #1-315 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



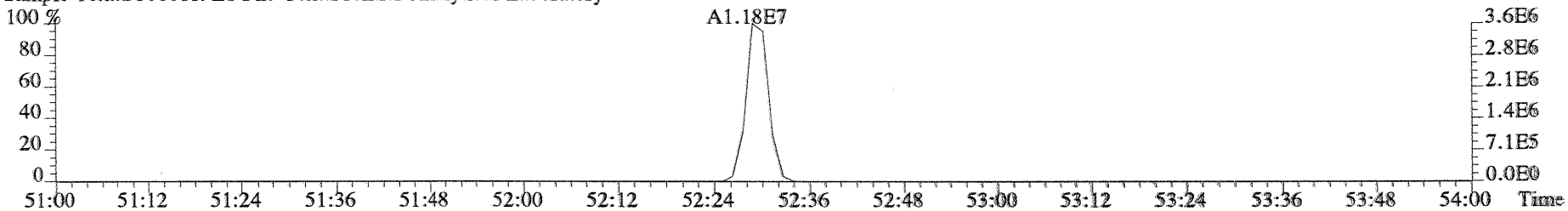
File:01AUG19Z #1-315 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



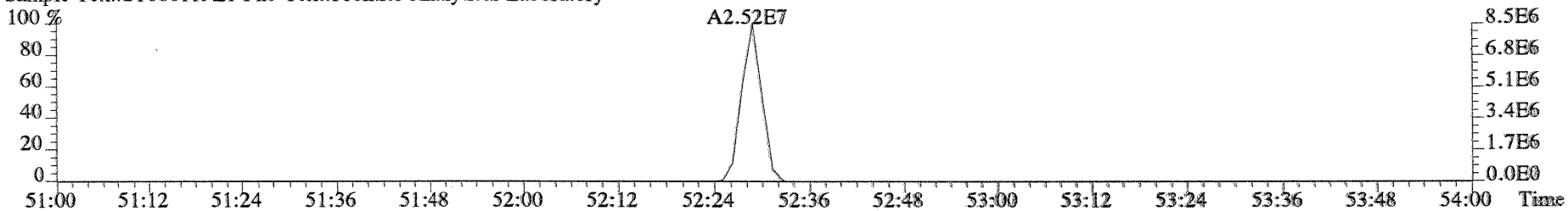
File:01AUG19Z #1-315 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



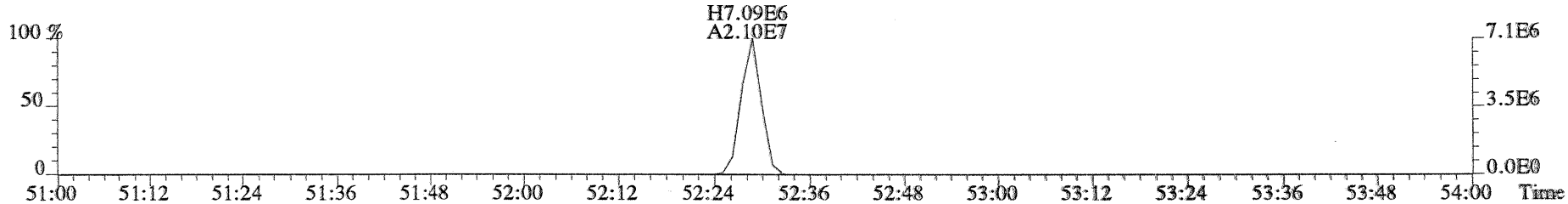
File:01AUG19Z #1-315 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory



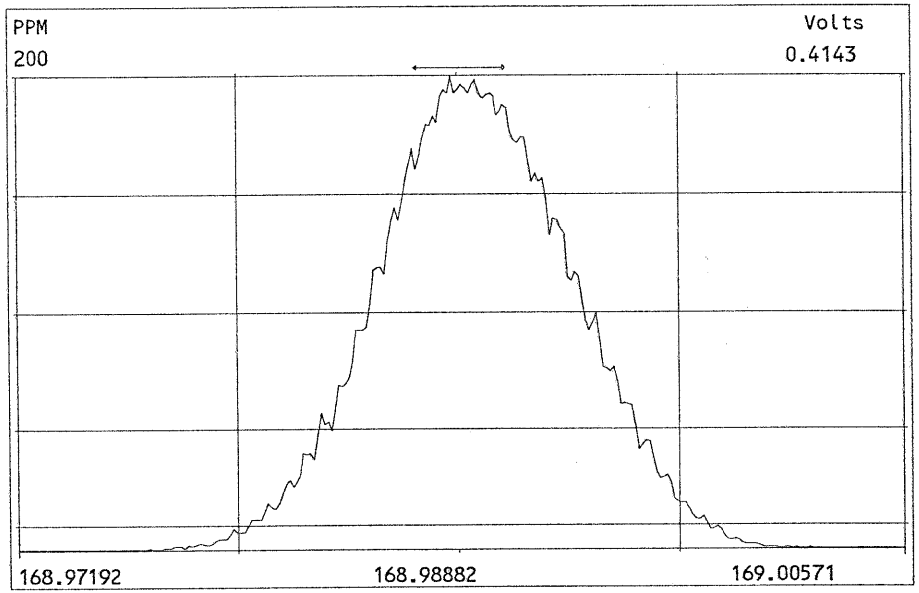
File:01AUG19Z #1-315 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory

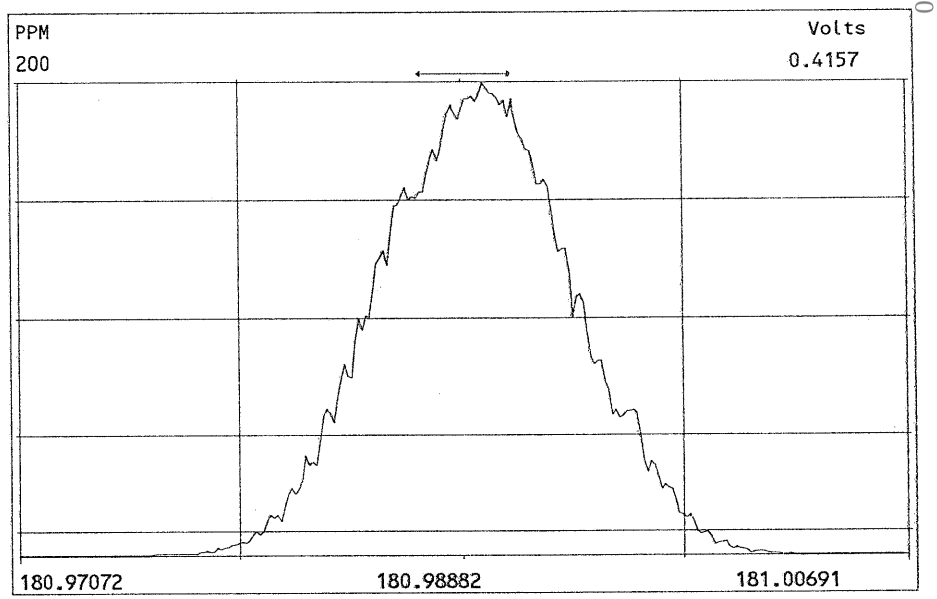


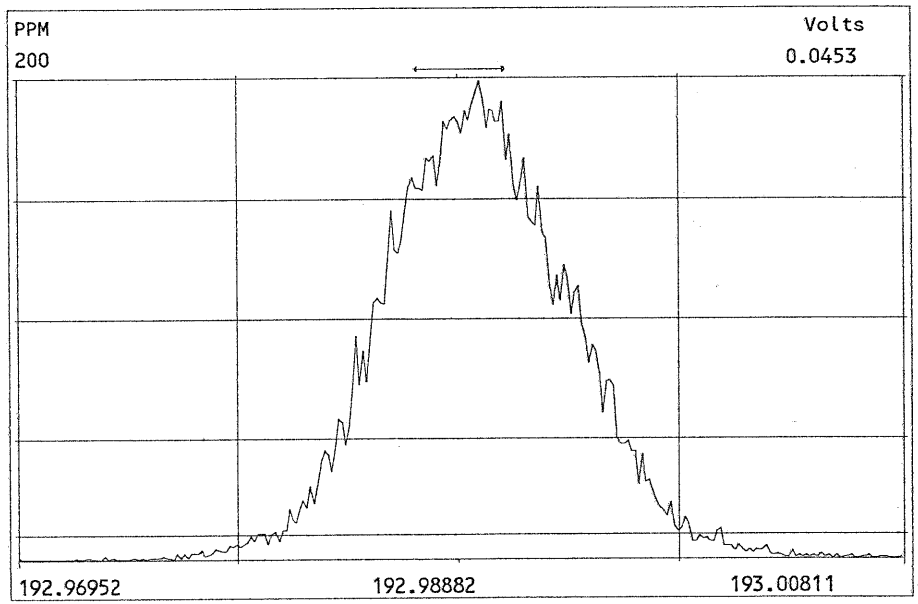
File:01AUG19Z #1-315 Acq: 1-AUG-2019 07:26:00 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z1 File Text:Frontier Analytical Laboratory

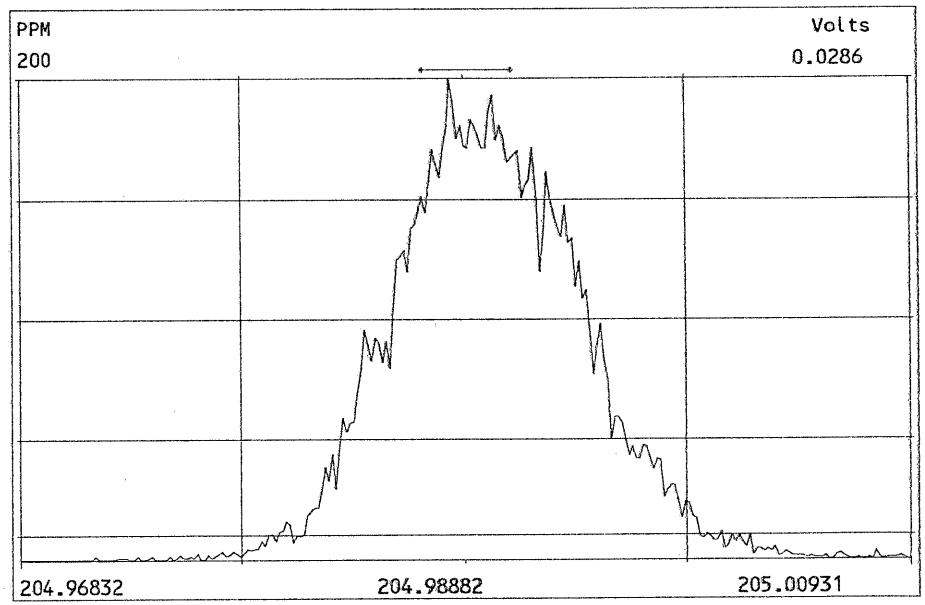


Peak Locate Examination: 1-AUG-2019:23:29 File:01AUG19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

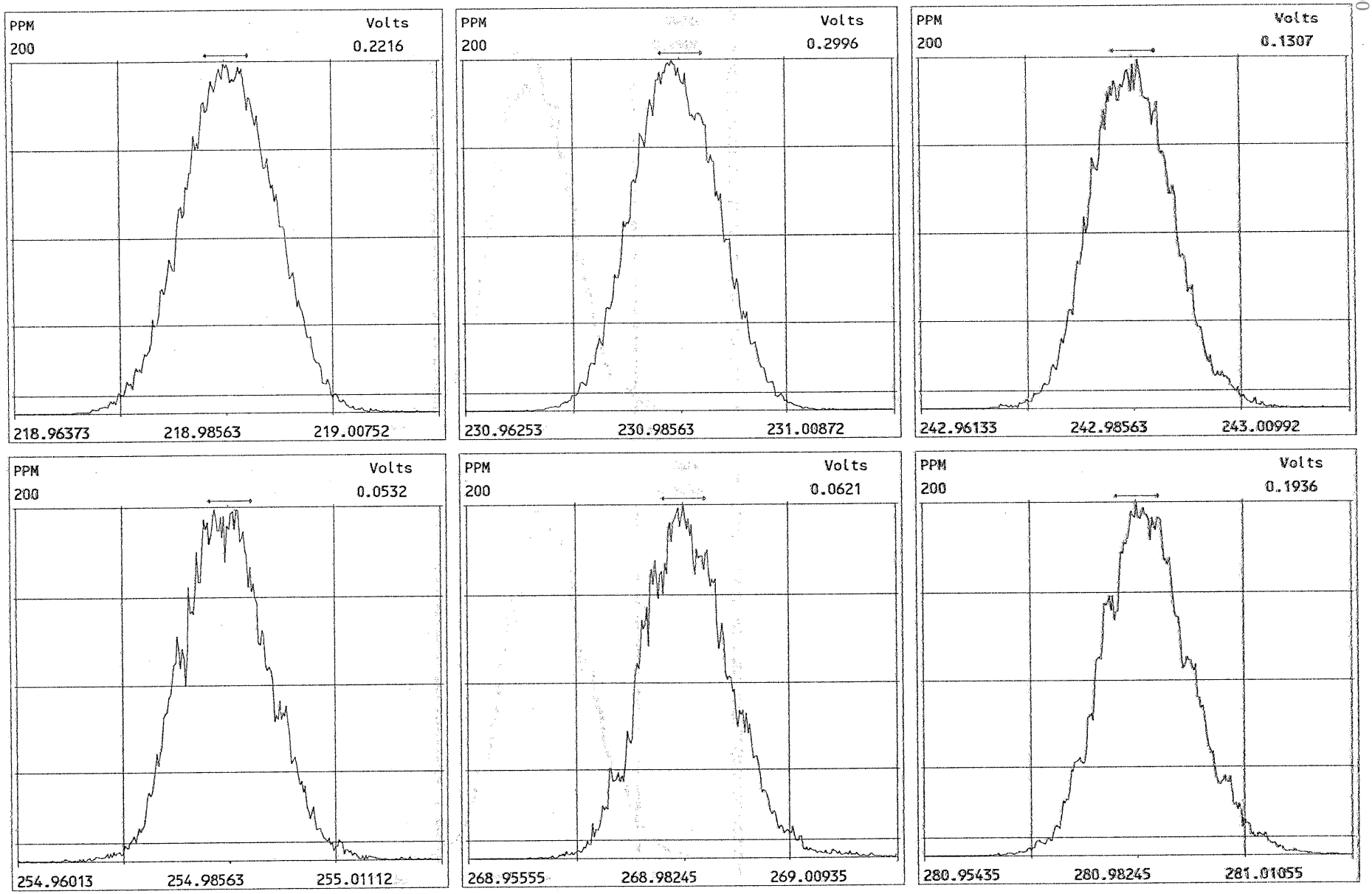




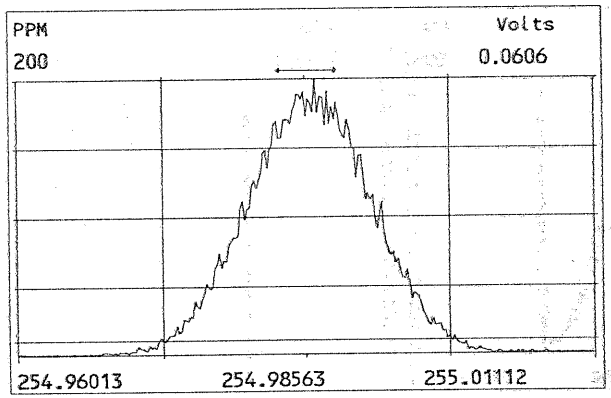


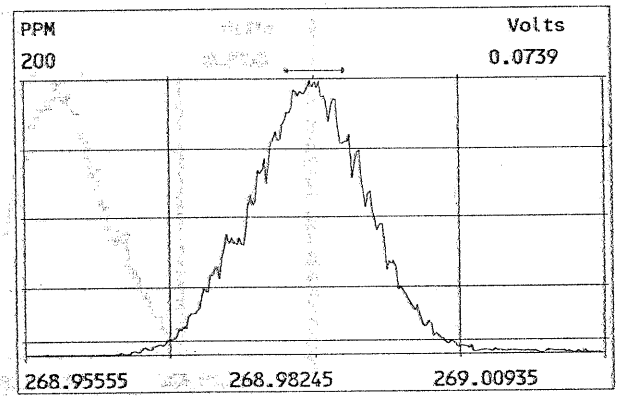


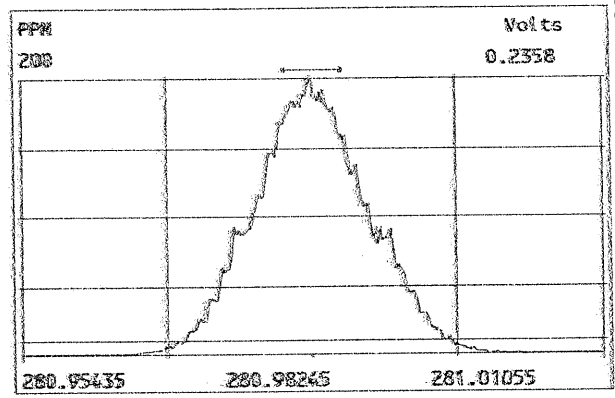
Peak Locate Examination: 1-AUG-2019:23:31 File:01AUG19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

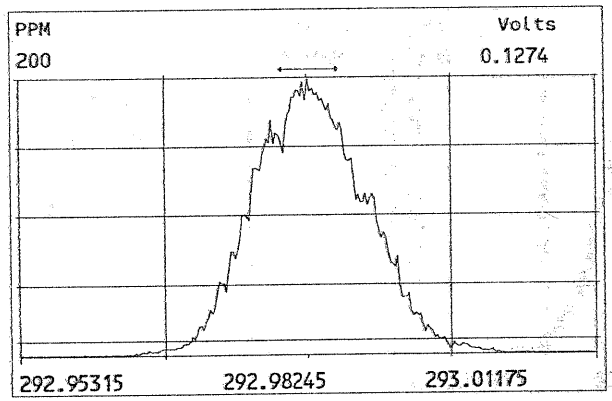


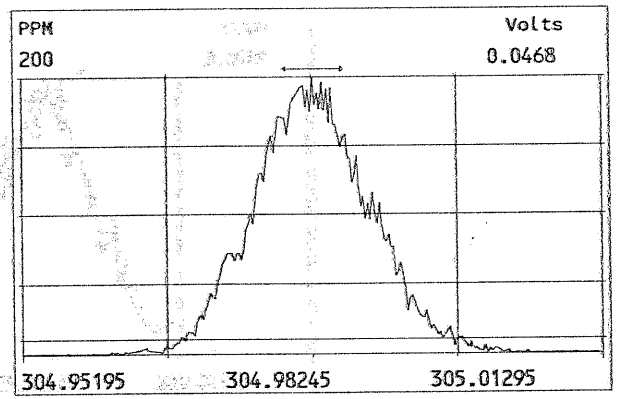
Peak Locate Examination: 1-AUG-2019:23:34 File:01AUG19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

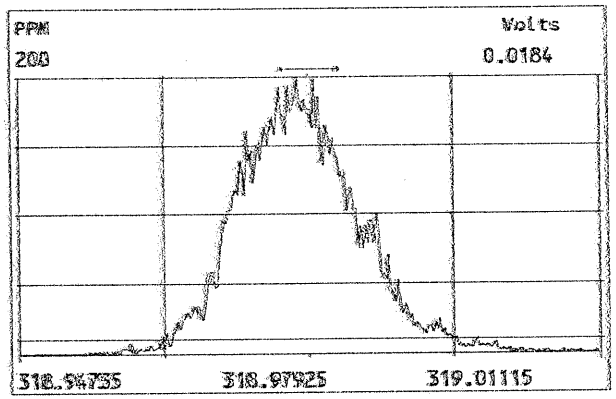


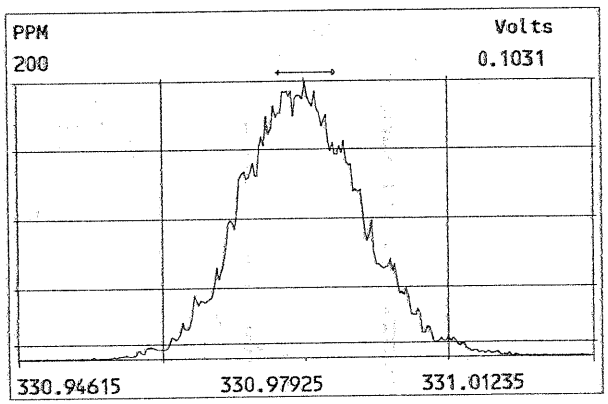


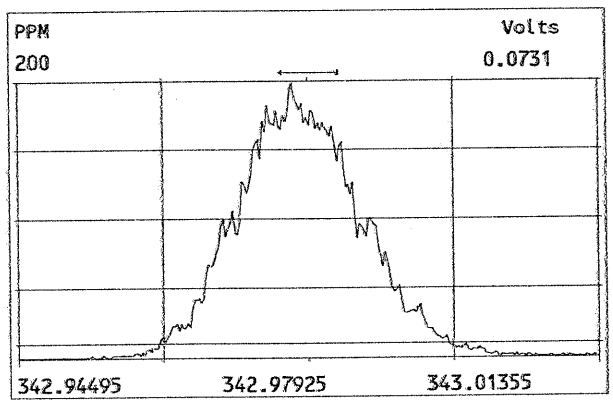




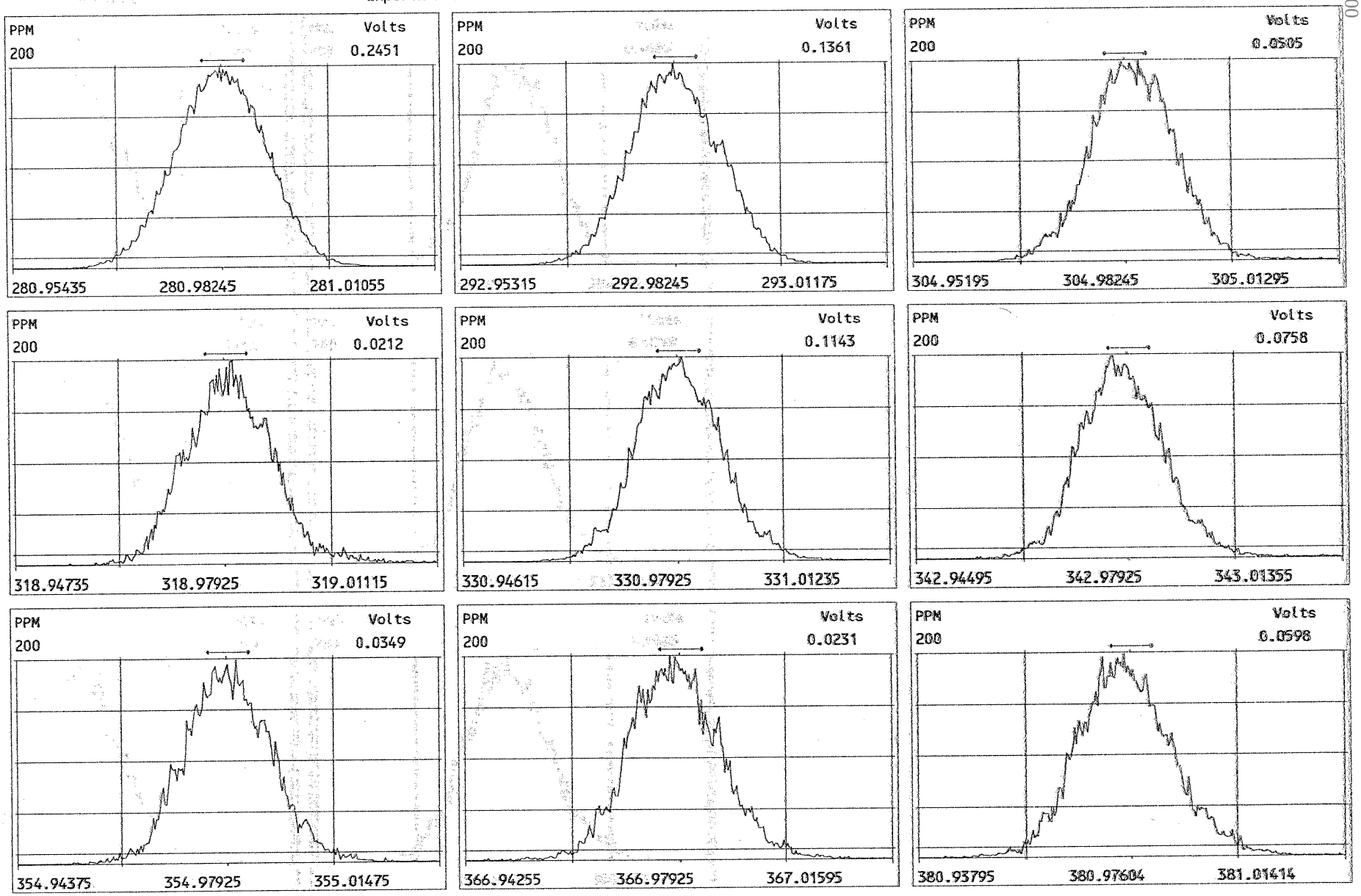






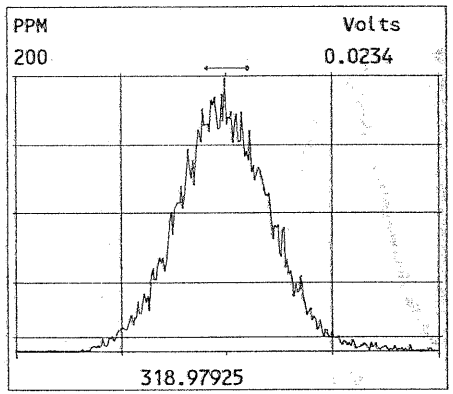


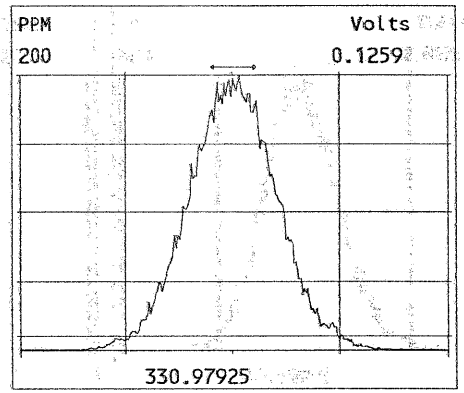
Peak Locate Examination: 1-AUG-2019:23:36 File:01AUG19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

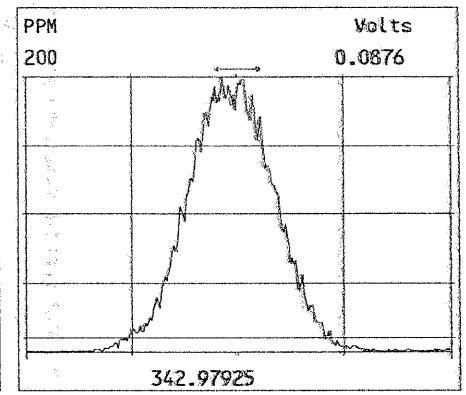


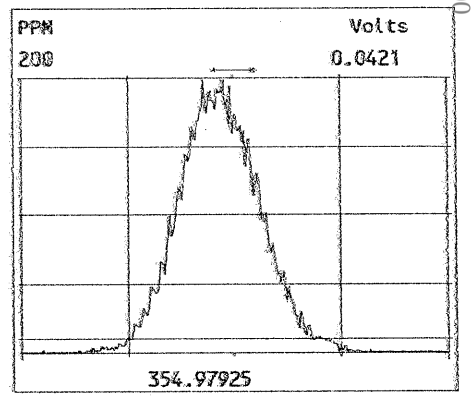
Peak Locate Examination: 1-AUG-2019:23:38 File:01AUG19Z_RES_CHECK

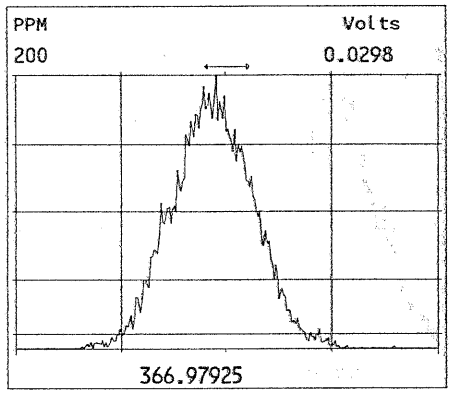
Experiment:1668PCB Function:5 Reference:PFK

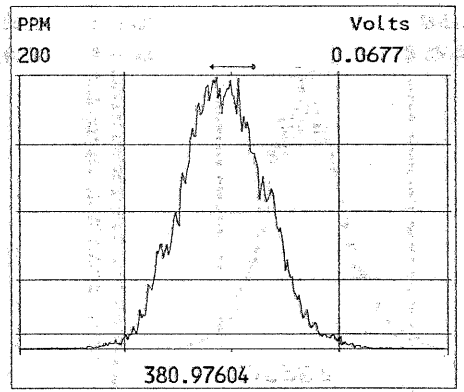


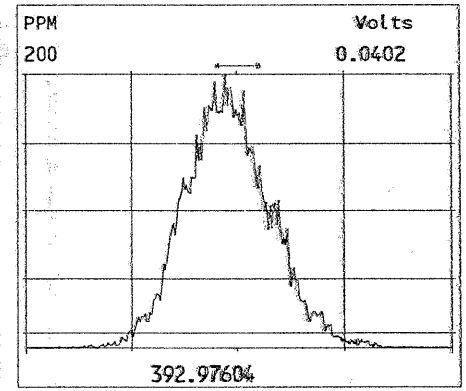


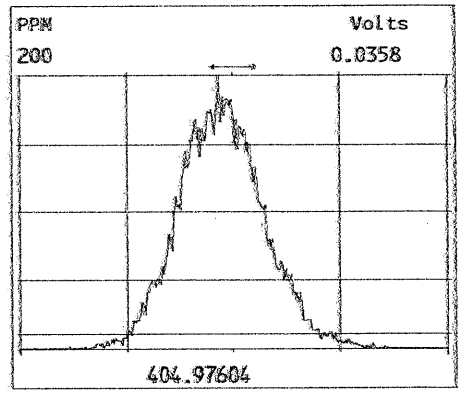


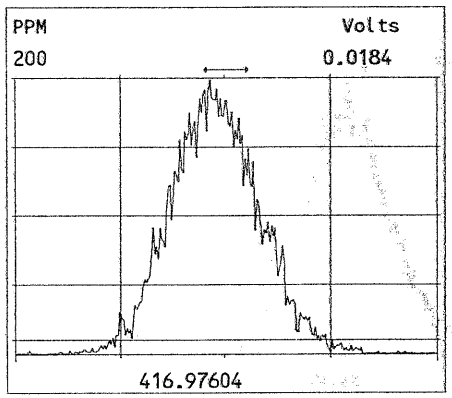


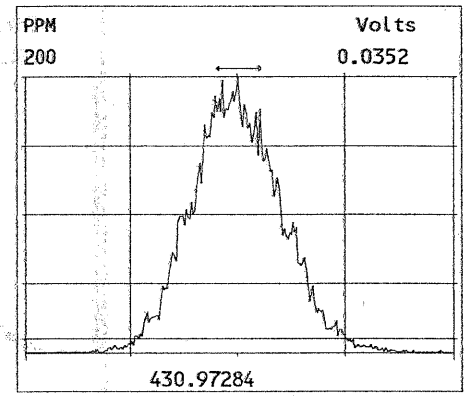


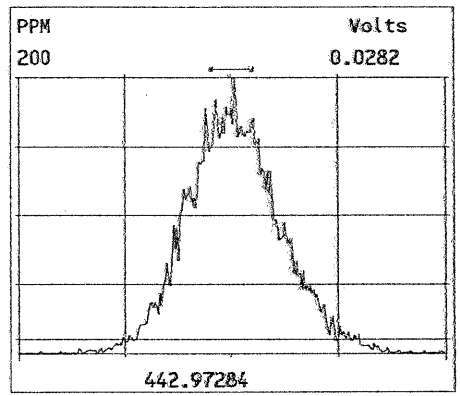




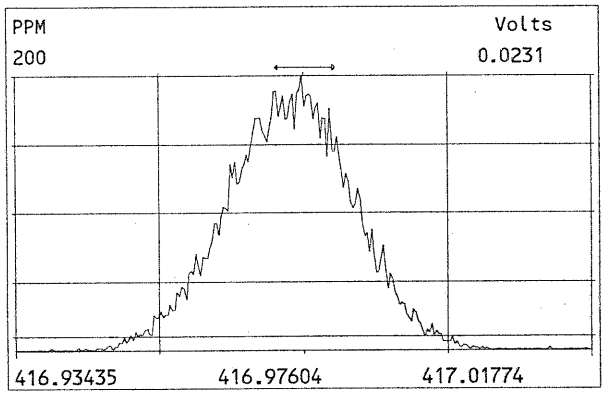


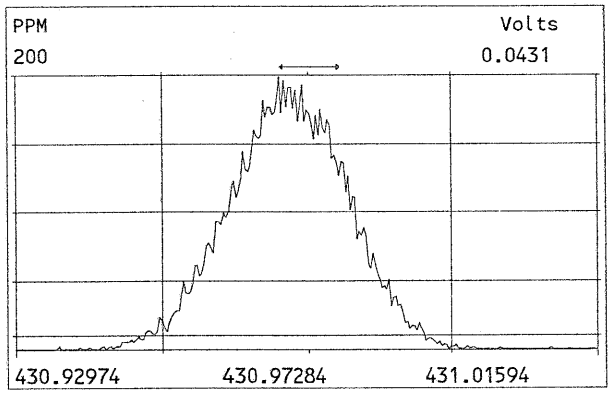


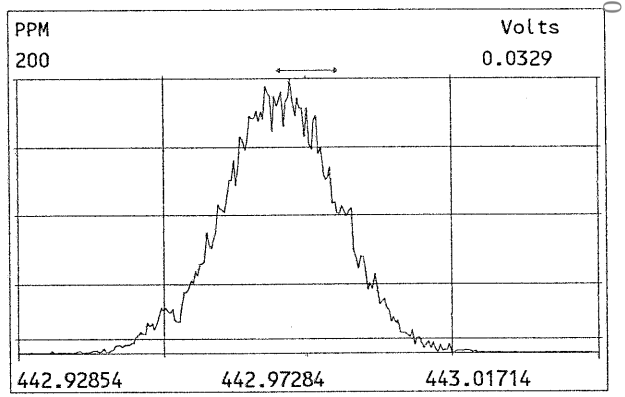


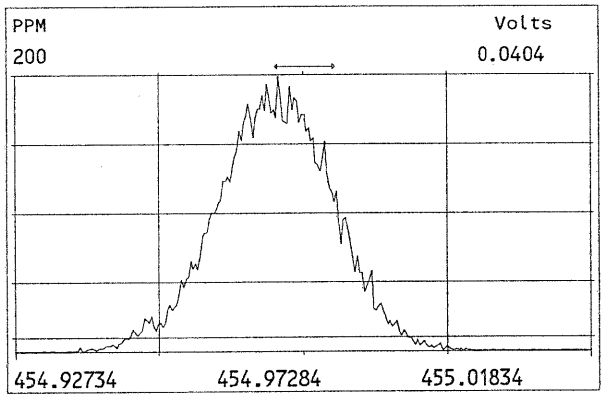


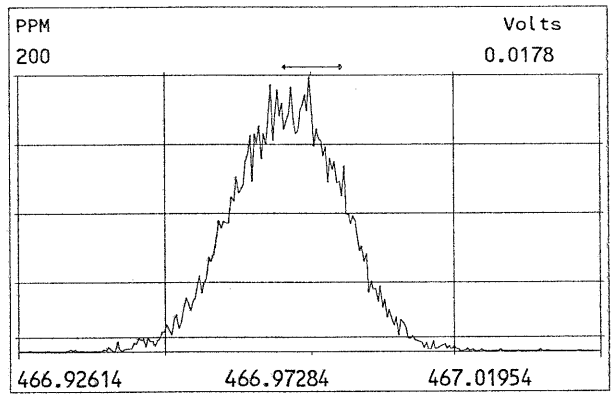
Peak Locate Examination: 1-AUG-2019:23:41 File:01AUG19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

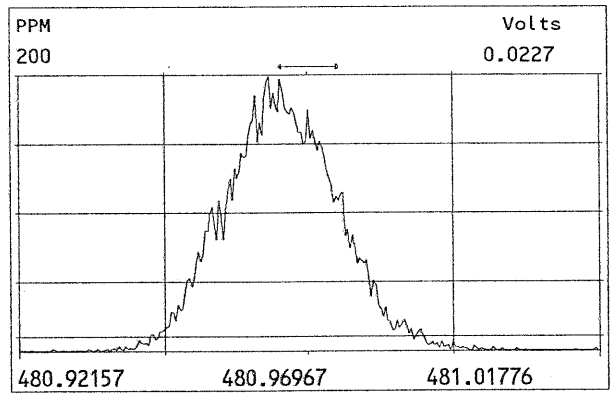


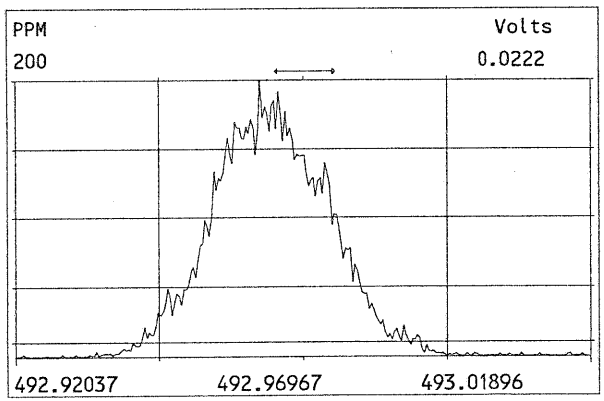


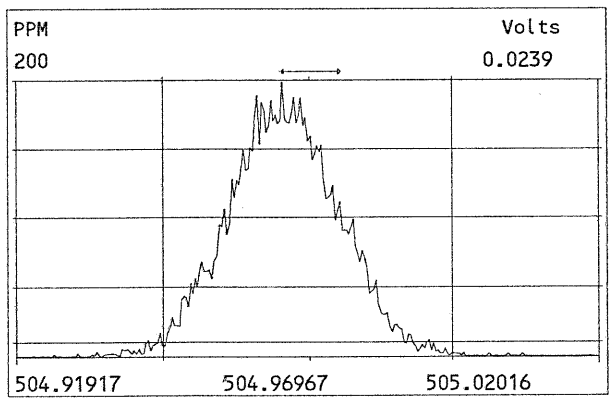


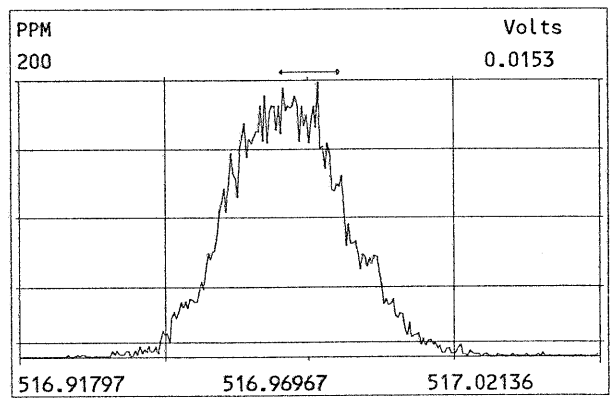












Cal: DAILY209FAL4-8-1-19

Run: 01AUG19Z Analyte: DAILY209FAL4-8-1-19 Results: 12566 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:01AUG19Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.0913	-	1.09	
13C-PCB-1	1.1206	-	1.12	
PCB-2	1.0530	-	1.05	
PCB-3	1.0675	-	1.07	
13C-PCB-3	1.0569	-	1.06	
PCB-4	1.0969	-	1.10	
PCB-10	1.3042	-	1.30	
13C-PCB-4	0.6811	-	0.68	
PCB-9	1.3113	-	1.31	
PCB-7	1.4282	-	1.43	
PCB-6	1.3701	-	1.37	
PCB-8	1.3009	-	1.30	
PCB-5	1.3330	-	1.33	
PCB-14	1.2353	-	1.24	
PCB-11	1.1592	-	1.16	
PCB-13	1.1135	-	1.11	
PCB-12	1.1489	-	1.15	
PCB-15	1.0801	-	1.08	
13C-PCB-15	0.8595	-	0.86	
PCB-19	1.1284	-	1.13	
PCB-30	1.6798	-	1.68	
PCB-18	1.0932	-	1.09	
PCB-17	1.1983	-	1.20	
PCB-27	1.5680	-	1.57	
PCB-24	1.5264	-	1.53	
PCB-16	1.1621	-	1.16	
PCB-32	1.3891	-	1.39	
13C-PCB-19	0.5405	-	0.54	
13C-PCB-9	-	-	-	
PCB-34	1.2020	-	1.20	
PCB-23	1.1924	-	1.19	
PCB-29	1.2746	-	1.27	
PCB-26	1.2397	-	1.24	
PCB-25	1.2160	-	1.22	
PCB-31	1.2057	-	1.21	
PCB-28	1.4171	-	1.42	
PCB-20	1.1891	-	1.19	Co-elute PCB 21/33
PCB-21	1.1891	-	1.19	Co-elute PCB 20/33
PCB-33	1.1891	-	1.19	Co-elute PCB 20/21
PCB-22	1.2821	-	1.28	
PCB-36	1.1504	-	1.15	
PCB-39	1.1544	-	1.15	
PCB-38	1.1825	-	1.18	
PCB-35	1.0327	-	1.03	
PCB-37	1.1030	-	1.10	
13C-PCB-37	1.4226	-	1.42	

PCB-54	1.2094	-	1.21	
PCB-50	0.9334	-	0.93	
PCB-53	0.9311	-	0.93	
PCB-51	0.9696	-	0.97	
PCB-45	0.7706	-	0.77	
PCB-46	0.7419	-	0.74	
PCB-52	0.9053	-	0.91	Co-elute PCB 69
PCB-69	0.9053	-	0.91	Co-elute PCB 52
PCB-73	1.1161	-	1.12	
PCB-43	0.7879	-	0.79	Co-elute PCB 49
PCB-49	0.7879	-	0.79	Co-elute PCB 43
PCB-47	0.8013	-	0.80	
PCB-48	1.0061	-	1.01	Co-elute PCB 75
PCB-75	1.0061	-	1.01	Co-elute PCB 48
PCB-65	1.0643	-	1.06	
PCB-62	0.9850	-	0.99	
PCB-44	0.6415	-	0.64	
PCB-42	0.8945	-	0.89	Co-elute PCB 59
PCB-59	0.8945	-	0.89	Co-elute PCB 42
PCB-72	0.9780	-	0.98	Co-elute PCB 41/71/64
PCB-41	0.9780	-	0.98	Co-elute PCB 72/71/64
PCB-71	0.9780	-	0.98	Co-elute PCB 72/41/64
PCB-64	0.9780	-	0.98	Co-elute PCB 72/41/71
PCB-68	1.1010	-	1.10	
PCB-40	0.6009	-	0.60	
PCB-57	1.0367	-	1.04	
PCB-67	1.0393	-	1.04	
PCB-58	1.0417	-	1.04	
PCB-63	1.0199	-	1.02	
PCB-74	0.9988	-	1.00	
PCB-61	0.9422	-	0.94	Co-elute PCB 70
PCB-70	0.9422	-	0.94	Co-elute PCB 61
PCB-76	1.0870	-	1.09	Co-elute PCB 66
PCB-66	1.0870	-	1.09	Co-elute PCB 76
PCB-80	1.2201	-	1.22	
PCB-55	1.0734	-	1.07	
13C-PCB-54	1.2882	-	1.29	
PCB-104	1.0696	-	1.07	
PCB-96	0.9694	-	0.97	
PCB-103	0.7857	-	0.79	
PCB-100	0.7734	-	0.77	
PCB-94	0.6308	-	0.63	
PCB-98	0.6919	-	0.69	Co-elute PCB 102
PCB-102	0.6919	-	0.69	Co-elute PCB 98
PCB-95	0.6588	-	0.66	
PCB-93	0.6360	-	0.64	
PCB-88	0.7153	-	0.72	Co-elute PCB 91
PCB-91	0.7153	-	0.72	Co-elute PCB 88
PCB-121	0.8760	-	0.88	
13C-PCB-104	1.0854	-	1.09	
13C-PCB-28	1.7610	-	1.76	
13C-PCB-52	-	-	-	

PCB-56	1.0983	-	1.10	Co-elute PCB 60
PCB-60	1.0983	-	1.10	Co-elute PCB 56
PCB-79	1.1901	-	1.19	
PCB-78	1.1275	-	1.13	
PCB-81	1.2142	-	1.21	
13C-PCB-81	1.4626	-	1.46	
PCB-77	1.0270	-	1.03	
13C-PCB-77	1.5349	-	1.53	
PCB-155	1.0890	-	1.09	
PCB-150	1.0750	-	1.07	
PCB-152	1.0375	-	1.04	
PCB-145	1.0839	-	1.08	
PCB-136	0.9197	-	0.92	
PCB-148	0.8595	-	0.86	
PCB-154	0.8750	-	0.87	
13C-PCB-155	1.1896	-	1.19	
13C-PCB-111	1.2630	-	1.26	
13C-PCB-101	-	-	-	
PCB-84	0.8228	-	0.82	Co-elute PCB 92
PCB-92	0.8228	-	0.82	Co-elute PCB 84
PCB-89	0.7457	-	0.75	
PCB-90	0.8802	-	0.88	Co-elute PCB 101
PCB-101	0.8802	-	0.88	Co-elute PCB 90
PCB-113	1.0399	-	1.04	
PCB-99	0.9410	-	0.94	
PCB-119	1.1294	-	1.13	
PCB-83	0.8918	-	0.89	Co-elute PCB 112
PCB-112	0.8918	-	0.89	Co-elute PCB 83
PCB-109	1.0751	-	1.08	
PCB-97	0.7158	-	0.72	
PCB-86	0.7869	-	0.79	
PCB-125	0.9739	-	0.97	Co-elute PCB 87/117
PCB-87	0.9739	-	0.97	Co-elute PCB 125/117
PCB-117	0.9739	-	0.97	Co-elute PCB 125/87
PCB-111	1.1339	-	1.13	Co-elute PCB 115
PCB-115	1.1339	-	1.13	Co-elute PCB 111
PCB-85	0.9535	-	0.95	Co-elute PCB 116
PCB-116	0.9535	-	0.95	Co-elute PCB 85
PCB-120	1.1725	-	1.17	
PCB-110	1.0874	-	1.09	
PCB-82	0.6428	-	0.64	
PCB-124	1.0401	-	1.04	
PCB-108	1.1408	-	1.14	Co-elute PCB 107
PCB-107	1.1408	-	1.14	Co-elute PCB 108
PCB-123	0.9884	-	0.99	
13C-PCB-123	1.1671	-	1.17	
PCB-118	1.0881	-	1.09	Co-elute PCB 106
PCB-106	1.0881	-	1.09	Co-elute PCB 118
13C-PCB-118	1.2722	-	1.27	
PCB-114	1.0994	-	1.10	
13C-PCB-114	1.2389	-	1.24	
PCB-122	1.1689	-	1.17	
PCB-105	1.1548	-	1.15	
13C-PCB-105	1.2428	-	1.24	
PCB-127	1.0577	-	1.06	
PCB-126	1.1079	-	1.11	
13C-PCB-126	1.1767	-	1.18	

PCB-151	0.7855	-	0.79	
PCB-135	0.7483	-	0.75	
PCB-144	0.8672	-	0.87	
PCB-147	0.9147	-	0.91	
PCB-139	0.9215	-	0.92	Co-elute PCB 149
PCB-149	0.9215	-	0.92	Co-elute PCB 139
PCB-140	0.8917	-	0.89	
PCB-143	0.7417	-	0.74	Co-elute PCB 134
PCB-134	0.7417	-	0.74	Co-elute PCB 143
PCB-131	0.7339	-	0.73	Co-elute PCB 133
PCB-133	0.7339	-	0.73	Co-elute PCB 131
PCB-142	0.7462	-	0.75	
PCB-165	1.0179	-	1.02	Co-elute PCB 146
PCB-146	1.0179	-	1.02	Co-elute PCB 165
PCB-161	0.9195	-	0.92	Co-elute PCB 132
PCB-132	0.9195	-	0.92	Co-elute PCB 161
PCB-153	0.9963	-	1.00	
PCB-168	1.1020	-	1.10	
PCB-141	0.8300	-	0.83	
PCB-137	0.7780	-	0.78	
PCB-130	0.7732	-	0.77	
PCB-138	1.0581	-	1.06	Co-elute PCB 163/164
PCB-163	1.0581	-	1.06	Co-elute PCB 138/164
PCB-164	1.0581	-	1.06	Co-elute PCB 138/163
PCB-158	1.1653	-	1.17	Co-elute PCB 160
PCB-160	1.1653	-	1.17	Co-elute PCB 158
PCB-129	0.7110	-	0.71	
PCB-166	1.0664	-	1.07	
PCB-159	1.2084	-	1.21	
PCB-128	0.9640	-	0.96	Co-elute PCB 162
PCB-162	0.9640	-	0.96	Co-elute PCB 128
PCB-167	1.1078	-	1.11	
13C-PCB-167	1.1550	-	1.15	
PCB-156	1.1692	-	1.17	
13C-PCB-156	1.1339	-	1.13	
PCB-157	1.1218	-	1.12	
13C-PCB-157	1.1523	-	1.15	
PCB-169	1.0656	-	1.07	
13C-PCB-169	1.1619	-	1.16	
PCB-188	1.0663	-	1.07	
13C-PCB-188	1.1435	-	1.14	

PCB-184	1.1111	-	1.11	
PCB-179	1.0449	-	1.04	
PCB-176	1.0296	-	1.03	
PCB-186	1.0749	-	1.07	
PCB-178	0.7176	-	0.72	
PCB-175	0.7461	-	0.75	
PCB-187	0.8529	-	0.85	Co-elute PCB 182
PCB-182	0.8529	-	0.85	Co-elute PCB 187
PCB-183	0.8260	-	0.83	
PCB-185	0.7436	-	0.74	
PCB-174	0.7703	-	0.77	
PCB-181	0.7330	-	0.73	
PCB-177	0.6758	-	0.68	
PCB-171	0.7487	-	0.75	
PCB-173	0.6673	-	0.67	
PCB-172	0.7295	-	0.73	
PCB-192	0.9536	-	0.95	
PCB-180	0.7316	-	0.73	
PCB-193	1.0487	-	1.05	
PCB-191	1.0192	-	1.02	
PCB-170	0.7478	-	0.75	
PCB-190	1.0305	-	1.03	
PCB-189	1.0808	-	1.08	
13C-PCB-189	1.1250	-	1.12	
PCB-202	1.0079	-	1.01	
PCB-201	1.0613	-	1.06	
PCB-204	1.0942	-	1.09	
PCB-197	1.1331	-	1.13	
PCB-200	1.1326	-	1.13	
PCB-198	0.8472	-	0.85	
PCB-199	0.7922	-	0.79	
PCB-203	0.9245	-	0.92	Co-elute PCB 196
PCB-196	0.9245	-	0.92	Co-elute PCB 203
13C-PCB-202	0.9903	-	0.99	
13C-PCB-178	0.7689	-	0.77	
13C-PCB-138	-	-	-	
PCB-195	0.7458	-	0.75	
PCB-194	0.8335	-	0.83	
PCB-205	1.0489	-	1.05	
13C-PCB-205	1.3334	-	1.33	
PCB-208	1.0219	-	1.02	
13C-PCB-208	1.3572	-	1.36	
PCB-207	1.1540	-	1.15	
PCB-206	1.0392	-	1.04	
13C-PCB-206	0.9440	-	0.94	
PCB-209	1.1164	-	1.12	
13C-PCB-209	1.2997	-	1.30	
13C-PCB-194	-	-	-	

Analyst: [signature] Date: 8/1/19

Run #1 Filename 01AUG19Z S: 2 Acquired: 1-AUG-19 08:24:20 Cal: DAILY209FAL4-8-1-19
Client ID: SS080119Z1 Analyte: FAL ID: Daily 209 190408A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	7.32e+07	3.13 y	14:33	-	1.09	
2	IS/RT	13C-PCB-1	100.00	1.34e+08	3.21 y	14:32	-	1.12	
3	Unk	PCB-2	50.00	6.86e+07	3.17 y	16:46	-	1.05	
4	Unk	PCB-3	50.00	6.75e+07	3.23 y	16:58	-	1.07	
5	IS/RT	13C-PCB-3	100.00	1.27e+08	3.24 y	16:57	-	1.06	
6	Unk	PCB-4	50.00	4.47e+07	1.54 y	18:13	-	1.10	
7	Unk	PCB-10	50.00	6.01e+07	1.52 y	18:17	-	1.30	
8	IS/RT	13C-PCB-4	100.00	8.15e+07	1.57 y	18:11	-	0.681	
9	Unk	PCB-9	50.00	6.05e+07	1.49 y	19:54	-	1.31	
10	Unk	PCB-7	50.00	6.59e+07	1.61 y	19:55	-	1.43	
11	Unk	PCB-6	50.00	6.32e+07	1.56 y	20:32	-	1.37	
12	Unk	PCB-8	50.00	6.00e+07	1.59 y	20:54	-	1.30	
13	Unk	PCB-5	50.00	6.15e+07	1.51 y	20:55	-	1.33	
14	Unk	PCB-14	50.00	5.70e+07	1.54 y	21:57	-	1.24	
15	Unk	PCB-11	50.00	5.35e+07	1.56 y	23:04	-	1.16	
16	Unk	PCB-13	50.00	5.14e+07	1.50 y	23:25	-	1.11	
17	Unk	PCB-12	50.00	5.30e+07	1.55 y	23:28	-	1.15	
18	Unk	PCB-15	50.00	5.56e+07	1.55 y	23:45	-	1.08	
19	IS/RT	13C-PCB-15	100.00	1.03e+08	1.59 y	23:43	-	0.860	
20	Unk	PCB-19	50.00	3.65e+07	1.06 y	22:06	-	1.13	
21	Unk	PCB-30	50.00	5.44e+07	1.06 y	22:56	-	1.68	
22	Unk	PCB-18	50.00	3.54e+07	1.05 y	23:39	-	1.09	
23	Unk	PCB-17	50.00	3.88e+07	1.05 y	23:48	-	1.20	
24	Unk	PCB-27	50.00	5.07e+07	1.04 y	24:21	-	1.57	
25	Unk	PCB-24	50.00	4.94e+07	1.07 y	24:22	-	1.53	
26	Unk	PCB-16	50.00	3.76e+07	1.05 y	24:49	-	1.16	
27	Unk	PCB-32	50.00	4.50e+07	1.05 y	24:51	-	1.39	
28	IS/RT	13C-PCB-19	100.00	6.47e+07	1.06 y	22:04	-	0.541	
29	RS	13C-PCB-9	100.00	1.20e+08	1.60 y	19:52	1.20e+06	-	
30	Unk	PCB-34	50.00	4.42e+07	0.99 y	25:35	-	1.20	
31	Unk	PCB-23	50.00	4.38e+07	1.00 y	25:41	-	1.19	
32	Unk	PCB-29	50.00	4.68e+07	1.02 y	25:55	-	1.27	
33	Unk	PCB-26	50.00	4.56e+07	1.02 y	26:07	-	1.24	
34	Unk	PCB-25	50.00	4.47e+07	1.01 y	26:17	-	1.22	
35	Unk	PCB-31	50.00	4.43e+07	1.02 y	26:37	-	1.21	
36	Unk	PCB-28	50.00	5.21e+07	1.02 y	26:42	-	1.42	
37	Unk	PCB-20	150.00	1.31e+08	1.02 y	27:17	-	1.19	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	1.31e+08	1.02 y	27:17	-	1.19	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	1.31e+08	1.02 y	27:17	-	1.19	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	4.71e+07	0.99 y	27:43	-	1.28	
41	Unk	PCB-36	50.00	4.23e+07	1.02 y	28:18	-	1.15	
42	Unk	PCB-39	50.00	4.24e+07	1.02 y	28:45	-	1.15	
43	Unk	PCB-38	50.00	4.35e+07	1.03 y	29:29	-	1.18	
44	Unk	PCB-35	50.00	3.80e+07	1.04 y	29:58	-	1.03	
45	Unk	PCB-37	50.00	4.05e+07	1.01 y	30:23	-	1.10	
46	IS	13C-PCB-37	100.00	7.35e+07	1.08 y	30:22	-	1.42	

47	Unk	PCB-54	100.00	8.05e+07	0.80	y	25:39	-	1.21	
48	Unk	PCB-50	100.00	6.21e+07	0.81	y	26:44	-	0.933	
49	Unk	PCB-53	100.00	6.20e+07	0.79	y	27:21	-	0.931	
50	Unk	PCB-51	100.00	6.45e+07	0.80	y	27:40	-	0.970	
51	Unk	PCB-45	100.00	5.13e+07	0.79	y	28:05	-	0.771	
52	Unk	PCB-46	100.00	4.94e+07	0.81	y	28:32	-	0.742	
53	Unk	PCB-52	200.00	1.21e+08	0.87	y	29:00	-	0.905	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.21e+08	0.87	y	29:00	-	0.905	Co-elute PCB 52
55	Unk	PCB-73	100.00	7.43e+07	0.71	y	29:06	-	1.12	
56	Unk	PCB-43	200.00	1.05e+08	0.79	y	29:16	-	0.788	Co-elute PCB 49
57	Unk	PCB-49	200.00	1.05e+08	0.79	y	29:16	-	0.788	Co-elute PCB 43
58	Unk	PCB-47	100.00	5.33e+07	0.79	y	29:28	-	0.801	
59	Unk	PCB-48	200.00	1.34e+08	0.80	y	29:34	-	1.01	Co-elute PCB 75
60	Unk	PCB-75	200.00	1.34e+08	0.80	y	29:34	-	1.01	Co-elute PCB 48
61	Unk	PCB-65	100.00	7.08e+07	0.79	y	29:49	-	1.06	
62	Unk	PCB-62	100.00	6.56e+07	0.81	y	29:55	-	0.985	
63	Unk	PCB-44	100.00	4.27e+07	0.81	y	30:12	-	0.641	
64	Unk	PCB-42	200.00	1.19e+08	0.80	y	30:26	-	0.895	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.19e+08	0.80	y	30:26	-	0.895	Co-elute PCB 42
66	Unk	PCB-72	400.00	2.60e+08	0.80	y	30:59	-	0.978	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	2.60e+08	0.80	y	30:59	-	0.978	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	2.60e+08	0.80	y	30:59	-	0.978	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	2.60e+08	0.80	y	30:59	-	0.978	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	7.33e+07	0.81	y	31:14	-	1.10	
71	Unk	PCB-40	100.00	4.00e+07	0.80	y	31:25	-	0.601	
72	Unk	PCB-57	100.00	6.90e+07	0.80	y	31:47	-	1.04	
73	Unk	PCB-67	100.00	6.92e+07	0.78	y	32:03	-	1.04	
74	Unk	PCB-58	100.00	6.93e+07	0.81	y	32:09	-	1.04	
75	Unk	PCB-63	100.00	6.79e+07	0.80	y	32:19	-	1.02	
76	Unk	PCB-74	100.00	6.65e+07	0.80	y	32:36	-	0.999	
77	Unk	PCB-61	200.00	1.25e+08	0.80	y	32:47	-	0.942	Co-elute PCB 70
78	Unk	PCB-70	200.00	1.25e+08	0.80	y	32:47	-	0.942	Co-elute PCB 61
79	Unk	PCB-76	200.00	1.45e+08	0.80	y	32:59	-	1.09	Co-elute PCB 66
80	Unk	PCB-66	200.00	1.45e+08	0.80	y	32:59	-	1.09	Co-elute PCB 76
81	Unk	PCB-80	100.00	8.12e+07	0.80	y	33:11	-	1.22	
82	Unk	PCB-55	100.00	7.15e+07	0.80	y	33:30	-	1.07	
83	IS/RT	13C-PCB-54	100.00	6.66e+07	0.84	y	25:37	-	1.29	
84	Unk	PCB-104	100.00	6.00e+07	1.57	y	30:04	-	1.07	
85	Unk	PCB-96	100.00	5.44e+07	1.58	y	31:16	-	0.969	
86	Unk	PCB-103	100.00	4.41e+07	1.58	y	31:47	-	0.786	
87	Unk	PCB-100	100.00	4.34e+07	1.57	y	32:07	-	0.773	
88	Unk	PCB-94	100.00	3.54e+07	1.57	y	32:33	-	0.631	
89	Unk	PCB-98	200.00	7.76e+07	1.58	y	33:00	-	0.692	Co-elute PCB 102
90	Unk	PCB-102	200.00	7.76e+07	1.58	y	33:00	-	0.692	Co-elute PCB 98
91	Unk	PCB-95	100.00	3.69e+07	1.58	y	33:04	-	0.659	
92	Unk	PCB-93	100.00	3.57e+07	1.59	y	33:09	-	0.636	
93	Unk	PCB-88	200.00	8.02e+07	1.60	y	33:26	-	0.715	Co-elute PCB 91
94	Unk	PCB-91	200.00	8.02e+07	1.60	y	33:26	-	0.715	Co-elute PCB 88
95	Unk	PCB-121	100.00	4.91e+07	1.58	y	33:30	-	0.876	
96	IS	13C-PCB-104	100.00	5.61e+07	1.57	y	30:03	-	1.09	
97	C/Up	13C-PCB-28	100.00	9.10e+07	1.05	y	26:41	-	1.76	
98	RS	13C-PCB-52	100.00	5.17e+07	0.84	y	28:57	5.17e+05	-	
99	Unk	PCB-56	200.00	1.35e+08	0.76	y	33:58	-	1.10	Co-elute PCB 60
100	Unk	PCB-60	200.00	1.35e+08	0.76	y	33:58	-	1.10	Co-elute PCB 56

101	Unk	PCB-79	100.00	7.29e+07	0.78 y	34:59	-	1.19	
102	Unk	PCB-78	100.00	6.91e+07	0.78 y	35:39	-	1.13	
103	Unk	PCB-81	100.00	7.26e+07	0.77 y	36:09	-	1.21	
104	IS	13C-PCB-81	100.00	5.98e+07	0.81 y	36:08	-	1.46	
105	Unk	PCB-77	100.00	6.45e+07	0.77 y	36:42	-	1.03	
106	IS/RT	13C-PCB-77	100.00	6.28e+07	0.80 y	36:41	-	1.53	
107	Unk	PCB-155	100.00	5.30e+07	1.31 y	34:13	-	1.09	
108	Unk	PCB-150	100.00	5.23e+07	1.28 y	35:25	-	1.07	
109	Unk	PCB-152	100.00	5.05e+07	1.31 y	35:53	-	1.04	
110	Unk	PCB-145	100.00	5.27e+07	1.30 y	36:18	-	1.08	
111	Unk	PCB-136	100.00	4.47e+07	1.26 y	36:36	-	0.920	
112	Unk	PCB-148	100.00	4.18e+07	1.31 y	36:41	-	0.859	
113	Unk	PCB-154	100.00	4.26e+07	1.29 y	37:09	-	0.875	
114	IS	13C-PCB-155	100.00	4.86e+07	1.29 y	34:12	-	1.19	
115	C/Up	13C-PCB-111	100.00	5.16e+07	1.64 y	36:17	-	1.26	
116	RS	13C-PCB-101	100.00	4.09e+07	1.62 y	34:38	4.09e+05	-	
117	Unk	PCB-84	200.00	8.68e+07	1.59 y	34:18	-	0.823	Co-elute PCB 92
118	Unk	PCB-92	200.00	8.68e+07	1.59 y	34:18	-	0.823	Co-elute PCB 84
119	Unk	PCB-89	100.00	3.93e+07	1.52 y	34:29	-	0.746	
120	Unk	PCB-90	200.00	9.28e+07	1.56 y	34:40	-	0.880	Co-elute PCB 101
121	Unk	PCB-101	200.00	9.28e+07	1.56 y	34:40	-	0.880	Co-elute PCB 90
122	Unk	PCB-113	100.00	5.48e+07	1.57 y	34:53	-	1.04	
123	Unk	PCB-99	100.00	4.96e+07	1.59 y	34:59	-	0.941	
124	Unk	PCB-119	100.00	5.95e+07	1.60 y	35:25	-	1.13	
125	Unk	PCB-83	200.00	9.40e+07	1.58 y	35:34	-	0.892	Co-elute PCB 112
126	Unk	PCB-112	200.00	9.40e+07	1.58 y	35:34	-	0.892	Co-elute PCB 83
127	Unk	PCB-109	100.00	5.67e+07	1.59 y	35:43	-	1.08	
128	Unk	PCB-97	100.00	3.77e+07	1.57 y	35:54	-	0.716	
129	Unk	PCB-86	100.00	4.15e+07	1.56 y	36:03	-	0.787	
130	Unk	PCB-125	300.00	1.54e+08	1.59 y	36:11	-	0.974	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	1.54e+08	1.59 y	36:11	-	0.974	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	1.54e+08	1.59 y	36:11	-	0.974	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.20e+08	1.58 y	36:18	-	1.13	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.20e+08	1.58 y	36:18	-	1.13	Co-elute PCB 111
135	Unk	PCB-85	200.00	1.01e+08	1.59 y	36:26	-	0.953	Co-elute PCB 116
136	Unk	PCB-116	200.00	1.01e+08	1.59 y	36:26	-	0.953	Co-elute PCB 85
137	Unk	PCB-120	100.00	6.18e+07	1.58 y	36:40	-	1.17	
138	Unk	PCB-110	100.00	5.73e+07	1.59 y	36:47	-	1.09	
139	Unk	PCB-82	100.00	3.39e+07	1.58 y	37:24	-	0.643	
140	Unk	PCB-124	100.00	5.48e+07	1.52 y	38:02	-	1.04	
141	Unk	PCB-108	200.00	1.20e+08	1.54 y	38:10	-	1.14	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.20e+08	1.54 y	38:10	-	1.14	Co-elute PCB 108
143	Unk	PCB-123	100.00	4.94e+07	1.54 y	38:20	-	0.988	
144	IS	13C-PCB-123	100.00	5.00e+07	1.57 y	38:20	-	1.17	
145	Unk	PCB-118	200.00	1.19e+08	1.56 y	38:31	-	1.09	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.19e+08	1.56 y	38:31	-	1.09	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	5.45e+07	1.60 y	38:30	-	1.27	
148	Unk	PCB-114	100.00	5.84e+07	1.55 y	39:08	-	1.10	
149	IS	13C-PCB-114	100.00	5.31e+07	1.61 y	39:06	-	1.24	
150	Unk	PCB-122	100.00	6.16e+07	1.56 y	39:16	-	1.17	
151	Unk	PCB-105	100.00	6.15e+07	1.54 y	39:57	-	1.15	
152	IS	13C-PCB-105	100.00	5.33e+07	1.62 y	39:55	-	1.24	
153	Unk	PCB-127	100.00	5.58e+07	1.56 y	40:15	-	1.06	
154	Unk	PCB-126	100.00	5.59e+07	1.53 y	42:04	-	1.11	
155	IS	13C-PCB-126	100.00	5.04e+07	1.59 y	42:04	-	1.18	

156	Unk	PCB-151	100.00	3.87e+07	1.28 y	37:47	-	0.786	
157	Unk	PCB-135	100.00	3.69e+07	1.27 y	37:59	-	0.748	
158	Unk	PCB-144	100.00	4.28e+07	1.28 y	38:05	-	0.867	
159	Unk	PCB-147	100.00	4.51e+07	1.30 y	38:13	-	0.915	
160	Unk	PCB-139	200.00	9.09e+07	1.26 y	38:28	-	0.922	Co-elute PCB 149
161	Unk	PCB-149	200.00	9.09e+07	1.26 y	38:28	-	0.922	Co-elute PCB 139
162	Unk	PCB-140	100.00	4.40e+07	1.28 y	38:38	-	0.892	
163	Unk	PCB-143	200.00	7.32e+07	1.28 y	39:03	-	0.742	Co-elute PCB 134
164	Unk	PCB-134	200.00	7.32e+07	1.28 y	39:03	-	0.742	Co-elute PCB 143
165	Unk	PCB-131	200.00	7.24e+07	1.25 y	39:19	-	0.734	Co-elute PCB 133
166	Unk	PCB-133	200.00	7.24e+07	1.25 y	39:19	-	0.734	Co-elute PCB 131
167	Unk	PCB-142	100.00	3.68e+07	1.27 y	39:29	-	0.746	
168	Unk	PCB-165	200.00	1.00e+08	1.27 y	39:41	-	1.02	Co-elute PCB 146
169	Unk	PCB-146	200.00	1.00e+08	1.27 y	39:41	-	1.02	Co-elute PCB 165
170	Unk	PCB-161	200.00	9.07e+07	1.27 y	39:54	-	0.920	Co-elute PCB 132
171	Unk	PCB-132	200.00	9.07e+07	1.27 y	39:54	-	0.920	Co-elute PCB 161
172	Unk	PCB-153	100.00	4.91e+07	1.29 y	40:04	-	0.996	
173	Unk	PCB-168	100.00	5.43e+07	1.27 y	40:17	-	1.10	
174	Unk	PCB-141	100.00	4.09e+07	1.26 y	40:46	-	0.830	
175	Unk	PCB-137	100.00	3.84e+07	1.27 y	41:08	-	0.778	
176	Unk	PCB-130	100.00	3.81e+07	1.28 y	41:14	-	0.773	
177	Unk	PCB-138	300.00	1.57e+08	1.26 y	41:36	-	1.06	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.57e+08	1.26 y	41:36	-	1.06	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.57e+08	1.26 y	41:36	-	1.06	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.15e+08	1.27 y	41:49	-	1.17	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.15e+08	1.27 y	41:49	-	1.17	Co-elute PCB 158
182	Unk	PCB-129	100.00	3.51e+07	1.28 y	42:04	-	0.711	
183	Unk	PCB-166	100.00	5.26e+07	1.25 y	42:30	-	1.07	
184	Unk	PCB-159	100.00	5.96e+07	1.26 y	42:47	-	1.21	
185	Unk	PCB-128	200.00	9.51e+07	1.27 y	43:03	-	0.964	Co-elute PCB 162
186	Unk	PCB-162	200.00	9.51e+07	1.27 y	43:03	-	0.964	Co-elute PCB 128
187	Unk	PCB-167	100.00	5.48e+07	1.25 y	43:26	-	1.11	
188	IS	13C-PCB-167	100.00	4.95e+07	1.28 y	43:24	-	1.15	
189	Unk	PCB-156	100.00	5.68e+07	1.28 y	44:40	-	1.17	
190	IS	13C-PCB-156	100.00	4.86e+07	1.27 y	44:39	-	1.13	
191	Unk	PCB-157	100.00	5.54e+07	1.28 y	44:55	-	1.12	
192	IS	13C-PCB-157	100.00	4.94e+07	1.28 y	44:53	-	1.15	
193	Unk	PCB-169	100.00	5.31e+07	1.26 y	46:47	-	1.07	
194	IS	13C-PCB-169	100.00	4.98e+07	1.28 y	46:45	-	1.16	
195	Unk	PCB-188	100.00	5.22e+07	1.05 y	39:44	-	1.07	
196	IS	13C-PCB-188	100.00	4.90e+07	1.06 y	39:42	-	1.14	

197	Unk	PCB-184	100.00	5.40e+07	1.06 y	40:09	-	1.11	
198	Unk	PCB-179	100.00	5.08e+07	1.07 y	40:53	-	1.04	
199	Unk	PCB-176	100.00	5.00e+07	1.05 y	41:19	-	1.03	
200	Unk	PCB-186	100.00	5.22e+07	1.05 y	41:54	-	1.07	
201	Unk	PCB-178	100.00	3.49e+07	1.07 y	42:22	-	0.718	
202	Unk	PCB-175	100.00	3.63e+07	1.06 y	42:42	-	0.746	
203	Unk	PCB-187	200.00	8.29e+07	1.06 y	42:52	-	0.853	Co-elute PCB 182
204	Unk	PCB-182	200.00	8.29e+07	1.06 y	42:52	-	0.853	Co-elute PCB 187
205	Unk	PCB-183	100.00	4.01e+07	1.07 y	43:10	-	0.826	
206	Unk	PCB-185	100.00	3.61e+07	1.05 y	43:48	-	0.744	
207	Unk	PCB-174	100.00	3.74e+07	1.05 y	44:07	-	0.770	
208	Unk	PCB-181	100.00	3.56e+07	1.08 y	44:14	-	0.733	
209	Unk	PCB-177	100.00	3.28e+07	1.05 y	44:22	-	0.676	
210	Unk	PCB-171	100.00	3.64e+07	1.05 y	44:40	-	0.749	
211	Unk	PCB-173	100.00	3.24e+07	1.06 y	45:03	-	0.667	
212	Unk	PCB-172	100.00	3.55e+07	1.06 y	45:26	-	0.730	
213	Unk	PCB-192	100.00	4.63e+07	1.07 y	45:38	-	0.954	
214	Unk	PCB-180	100.00	3.56e+07	1.04 y	45:48	-	0.732	
215	Unk	PCB-193	100.00	5.10e+07	1.07 y	45:58	-	1.05	
216	Unk	PCB-191	100.00	4.95e+07	1.07 y	46:11	-	1.02	
217	Unk	PCB-170	100.00	3.63e+07	1.04 y	47:05	-	0.748	
218	Unk	PCB-190	100.00	5.01e+07	1.07 y	47:15	-	1.03	
219	Unk	PCB-189	100.00	5.21e+07	1.07 y	48:26	-	1.08	
220	IS	13C-PCB-189	100.00	4.82e+07	1.09 y	48:26	-	1.12	
221	Unk	PCB-202	150.00	6.42e+07	0.91 y	44:50	-	1.01	
222	Unk	PCB-201	150.00	6.76e+07	0.90 y	45:16	-	1.06	
223	Unk	PCB-204	150.00	6.96e+07	0.90 y	45:25	-	1.09	
224	Unk	PCB-197	150.00	7.21e+07	0.91 y	45:41	-	1.13	
225	Unk	PCB-200	150.00	7.21e+07	0.91 y	46:26	-	1.13	
226	Unk	PCB-198	150.00	5.39e+07	0.88 y	47:36	-	0.847	
227	Unk	PCB-199	150.00	5.04e+07	0.91 y	47:41	-	0.792	
228	Unk	PCB-203	300.00	1.18e+08	0.89 y	47:56	-	0.924	Co-elute PCB 196
229	Unk	PCB-196	300.00	1.18e+08	0.89 y	47:56	-	0.924	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	4.24e+07	0.90 y	44:48	-	0.990	
231	C/Up	13C-PCB-178	100.00	3.29e+07	1.07 y	42:20	-	0.769	
232	RS	13C-PCB-138	100.00	4.28e+07	1.26 y	41:33	4.28e+05	-	
233	Unk	PCB-195	150.00	5.76e+07	0.89 y	49:03	-	0.746	
234	Unk	PCB-194	150.00	6.44e+07	0.89 y	49:51	-	0.834	
235	Unk	PCB-205	150.00	8.11e+07	0.88 y	50:06	-	1.05	
236	IS	13C-PCB-205	100.00	5.15e+07	0.89 y	50:05	-	1.33	
237	Unk	PCB-208	150.00	8.04e+07	1.37 y	49:10	-	1.02	
238	IS	13C-PCB-208	100.00	5.24e+07	0.80 y	49:10	-	1.36	
239	Unk	PCB-207	150.00	7.70e+07	1.36 y	49:28	-	1.15	
240	Unk	PCB-206	150.00	5.69e+07	1.37 y	51:18	-	1.04	
241	IS	13C-PCB-206	100.00	3.65e+07	0.81 y	51:17	-	0.944	
242	Unk	PCB-209	150.00	8.41e+07	1.18 y	52:29	-	1.12	
243	IS	13C-PCB-209	100.00	5.02e+07	1.20 y	52:29	-	1.30	
244	RS	13C-PCB-194	100.00	3.86e+07	0.92 y	49:49	3.86e+05	-	

Analyst: _____ Date: 8/1/15

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/1/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 01AUG19Z Sam:1 Analysis Date: 1-AUG-19 07:26:00

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.13	2.66-3.60	y	49.8	37.5 - 62.5
PCB-3	M/M+2	3.03	2.66-3.60	y	52.0	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	45.5	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	45.0	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	49.3	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	48.4	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	49.1	37.5 - 62.5
PCB-77	M/M+2	0.78	0.65-0.89	y	51.5	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	44.8	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	49.9	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	44.2	37.5 - 62.5
PCB-114	M+2/M+4	1.56	1.32-1.78	y	47.3	37.5 - 62.5
PCB-118	M+2/M+4	1.57	1.32-1.78	y	47.1	37.5 - 62.5
PCB-123	M+2/M+4	1.55	1.32-1.78	y	51.8	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	46.7	37.5 - 62.5
PCB-155	M+2/M+4	1.30	1.05-1.43	y	46.9	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	46.2	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	46.9	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	47.9	37.5 - 62.5
PCB-169	M+2/M+4	1.30	1.05-1.43	y	50.4	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	49.3	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	48.7	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	50.5	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	51.4	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	49.7	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	49.0	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	50.0	37.5 - 62.5

Analyst: [signature] Date: 8/1/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/1/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 01AUG19Z Sam:1 Analysis Date: 1-AUG-19 07:26:00

	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	3.21	2.66-3.60	y	98.7	50.0 - 145
13C-PCB-3	M/M+2	3.23	2.66-3.60	y	102	50.0 - 145
13C-PCB-4	M/M+2	1.57	1.33-1.79	y	101	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	103	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	99.3	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	108	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	111	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	92.5	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	97.6	50.0 - 145
13C-PCB-104	M+2/M+4	1.58	1.32-1.78	y	108	50.0 - 145
13C-PCB-105	M+2/M+4	1.57	1.32-1.78	y	105	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	107	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	113	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	110	50.0 - 145
13C-PCB-126	M+2/M+4	1.57	1.32-1.78	y	105	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	115	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	1.27	1.05-1.43	y	105	50.0 - 145
13C-PCB-167	M+2/M+4	1.28	1.05-1.43	y	108	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	101	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	110	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	115	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	115	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	103	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	110	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	107	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	104	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	102	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	102	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	106	75.0 - 125

Analyst: [signature] Date: 8/1/19

FAL ID: ST080119Z1 Filename: 01AUG19Z Sam:1 Acquired: 1-AUG-19 07:26:00 ICal: DAILY209FAL4-8-1-19
Client ID: 1668 CS3 R181204D ConCal: ST080119Z1 EndCal: ST080119Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.64e+07	3.13 y	14:32	1.09	49.8		2.50	-	-	*	
13C-PCB-1	1.22e+08	3.21 y	14:31	1.12	98.7		2.50				98.7
PCB-3	6.61e+07	3.03 y	16:58	1.07	52.0		2.50	-	-	*	
13C-PCB-3	1.19e+08	3.23 y	16:57	1.06	102		2.50				102
PCB-4	3.78e+07	1.57 y	18:12	1.10	45.5		2.50	-	-	*	
13C-PCB-4	7.57e+07	1.57 y	18:10	0.68	101		2.50				101
PCB-15	4.75e+07	1.55 y	23:44	1.08	45.0		2.50	-	-	*	
13C-PCB-15	9.77e+07	1.60 y	23:42	0.86	103		2.50				103
PCB-19	3.30e+07	1.06 y	22:05	1.13	49.3		2.50	-	-	*	
13C-PCB-19	5.93e+07	1.07 y	22:04	0.54	99.3		2.50				99.3
13C-PCB-9	1.10e+08	1.59 y	19:51	-	92.2		2.50				
PCB-37	3.61e+07	1.04 y	30:23	1.10	48.4		2.50	-	-	*	
13C-PCB-37	6.77e+07	1.09 y	30:22	1.42	108		2.50				108
PCB-54	3.77e+07	0.80 y	25:38	1.21	49.1		2.50	-	-	*	
13C-PCB-54	6.35e+07	0.83 y	25:36	1.29	111		2.50				111
PCB-104	2.76e+07	1.59 y	30:04	1.07	49.9		2.50	-	-	*	
13C-PCB-104	5.17e+07	1.58 y	30:03	1.09	108		2.50				108
13C-PCB-28	7.94e+07	1.04 y	26:41	1.76	102		2.50				102
13C-PCB-52	4.43e+07	0.83 y	28:57	-	85.6		2.50				
PCB-81	2.81e+07	0.78 y	36:09	1.21	44.8		2.50	-	-	*	
13C-PCB-81	5.17e+07	0.79 y	36:08	1.46	97.6		2.50				97.6
PCB-77	2.72e+07	0.78 y	36:44	1.03	51.5		2.50	-	-	*	
13C-PCB-77	5.14e+07	0.79 y	36:42	1.53	92.5		2.50				92.5
PCB-155	2.53e+07	1.30 y	34:13	1.09	46.9		2.50	-	-	*	
13C-PCB-155	4.95e+07	1.29 y	34:12	1.19	115		2.50				115
13C-PCB-111	4.68e+07	1.61 y	36:17	1.26	102		2.50				102
13C-PCB-101	3.62e+07	1.60 y	34:38	-	88.6		2.50				
PCB-123	2.25e+07	1.55 y	38:22	0.99	51.8		2.50	-	-	*	
13C-PCB-123	4.39e+07	1.58 y	38:20	1.17	110		2.50				110
PCB-118	2.53e+07	1.57 y	38:32	1.09	47.1		2.50	-	-	*	
13C-PCB-118	4.93e+07	1.58 y	38:30	1.27	113		2.50				113
PCB-114	2.36e+07	1.56 y	39:09	1.10	47.3		2.50	-	-	*	
13C-PCB-114	4.54e+07	1.58 y	39:08	1.24	107		2.50				107
PCB-105	2.29e+07	1.54 y	39:57	1.15	44.2		2.50	-	-	*	
13C-PCB-105	4.49e+07	1.57 y	39:57	1.24	105		2.50				105
PCB-126	2.19e+07	1.57 y	42:06	1.11	46.7		2.50	-	-	*	
13C-PCB-126	4.23e+07	1.57 y	42:04	1.18	105		2.50				105
PCB-167	2.27e+07	1.25 y	43:26	1.11	47.9		2.50	-	-	*	
13C-PCB-167	4.27e+07	1.28 y	43:25	1.15	108		2.50				108
PCB-156	2.20e+07	1.27 y	44:40	1.17	46.2		2.50	-	-	*	
13C-PCB-156	4.08e+07	1.29 y	44:39	1.13	105		2.50				105
PCB-157	2.19e+07	1.26 y	44:55	1.12	46.9		2.50	-	-	*	
13C-PCB-157	4.16e+07	1.27 y	44:55	1.15	105		2.50				105
PCB-169	2.16e+07	1.30 y	46:47	1.07	50.4		2.50	-	-	*	
13C-PCB-169	4.02e+07	1.27 y	46:45	1.16	101		2.50				101
PCB-188	2.27e+07	1.06 y	39:44	1.07	49.3		2.50	-	-	*	
13C-PCB-188	4.31e+07	1.06 y	39:42	1.14	110		2.50				110
PCB-189	2.34e+07	1.05 y	48:27	1.08	48.7		2.50	-	-	*	
13C-PCB-189	4.44e+07	1.06 y	48:26	1.12	115		2.50				115
PCB-202	1.99e+07	0.92 y	44:50	1.01	50.5		2.50	-	-	*	
13C-PCB-202	3.91e+07	0.90 y	44:50	0.99	115		2.50				115
13C-PCB-178	2.79e+07	1.07 y	42:20	0.77	106		2.50				106
13C-PCB-138	3.43e+07	1.29 y	41:34	-	80.0		2.50				

FAL ID: ST080119Z1 Filename: 01AUG19Z Sam:1 Acquired: 1-AUG-19 07:26:00 ICal: DAILY209FAL4-8-1-19
Client ID: 1668 CS3 R181204D ConCal: ST080119Z1 EndCal: ST080119Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	2.53e+07	0.89	y	50:06	1.05	51.4	2.50	-	-	*	
13C-PCB-205	4.70e+07	0.90	y	50:05	1.33	103	2.50				103
PCB-208	2.49e+07	1.36	y	49:10	1.02	49.0	2.50	-	-	*	
13C-PCB-208	4.97e+07	0.81	y	49:10	1.36	107	2.50				107
PCB-206	1.82e+07	1.37	y	51:18	1.04	49.7	2.50	-	-	*	
13C-PCB-206	3.53e+07	0.80	y	51:17	0.94	110	2.50				110
PCB-209	2.58e+07	1.19	y	52:30	1.12	50.0	2.50	-	-	*	
13C-PCB-209	4.63e+07	1.20	y	52:29	1.30	104	2.50				104
13C-PCB-194	3.41e+07	0.91	y	49:49	-	88.3	2.50				

Analyst: B Date: 8/1/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/1/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 01AUG19Z Sam:16 Analysis Date: 1-AUG-19 22:01:41

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	52.4	37.5 - 62.5
PCB-3	M/M+2	3.07	2.66-3.60	y	51.4	37.5 - 62.5
PCB-4	M/M+2	1.53	1.33-1.79	y	49.3	37.5 - 62.5
PCB-15	M/M+2	1.59	1.33-1.79	y	48.9	37.5 - 62.5
PCB-19	M/M+2	1.05	0.88-1.20	y	49.8	37.5 - 62.5
PCB-37	M/M+2	1.07	0.88-1.20	y	48.5	37.5 - 62.5
PCB-54	M/M+2	0.81	0.65-0.89	y	49.8	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	53.9	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	47.1	37.5 - 62.5
PCB-104	M+2/M+4	1.56	1.32-1.78	y	51.3	37.5 - 62.5
PCB-105	M+2/M+4	1.61	1.32-1.78	y	45.5	37.5 - 62.5
PCB-114	M+2/M+4	1.59	1.32-1.78	y	49.7	37.5 - 62.5
PCB-118	M+2/M+4	1.59	1.32-1.78	y	48.9	37.5 - 62.5
PCB-123	M+2/M+4	1.55	1.32-1.78	y	55.4	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	49.0	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	49.4	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	48.7	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	47.0	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	50.2	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	51.9	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	50.9	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	47.6	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	50.3	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	52.8	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	49.9	37.5 - 62.5
PCB-208	M+4/M+6	1.38	1.13-1.53	y	49.2	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	49.6	37.5 - 62.5

Analyst: _____ Date: 8/2/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/1/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 01AUG19Z Sam:16 Analysis Date: 1-AUG-19 22:01:41

	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	101	50.0 - 145
13C-PCB-3	M/M+2	3.20	2.66-3.60	y	95.0	50.0 - 145
13C-PCB-4	M/M+2	1.59	1.33-1.79	y	112	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	99.2	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	108	50.0 - 145
13C-PCB-37	M/M+2	1.05	0.88-1.20	y	99.4	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	125	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	95.3	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	98.6	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	115	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	114	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	111	50.0 - 145
13C-PCB-118	M+2/M+4	1.59	1.32-1.78	y	118	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	118	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	112	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	109	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	116	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	108	50.0 - 145
13C-PCB-169	M+2/M+4	1.28	1.05-1.43	y	112	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	114	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	115	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	123	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	101	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	0.79	0.65-0.89	y	107	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	100	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	96.5	65.0 - 135
13C-PCB-111	M+2/M+4	1.63	1.32-1.78	y	105	75.0 - 125
13C-PCB-178	M+2/M+4	1.09	0.89-1.21	y	111	75.0 - 125

Analyst: [signature] Date: 8/2/19

FAL ID: ST080119Z2 Filename: 01AUG19Z Sam:16 Acquired: 1-AUG-19 22:01:41 ICal: DAILY209FAL4-8-1-19
Client ID: 1668 CS3 R181204D ConCal: ST080119Z1 EndCal: ST080119Z2
Results: 12510-11 GC Column: DB1MS Amount: 1.000

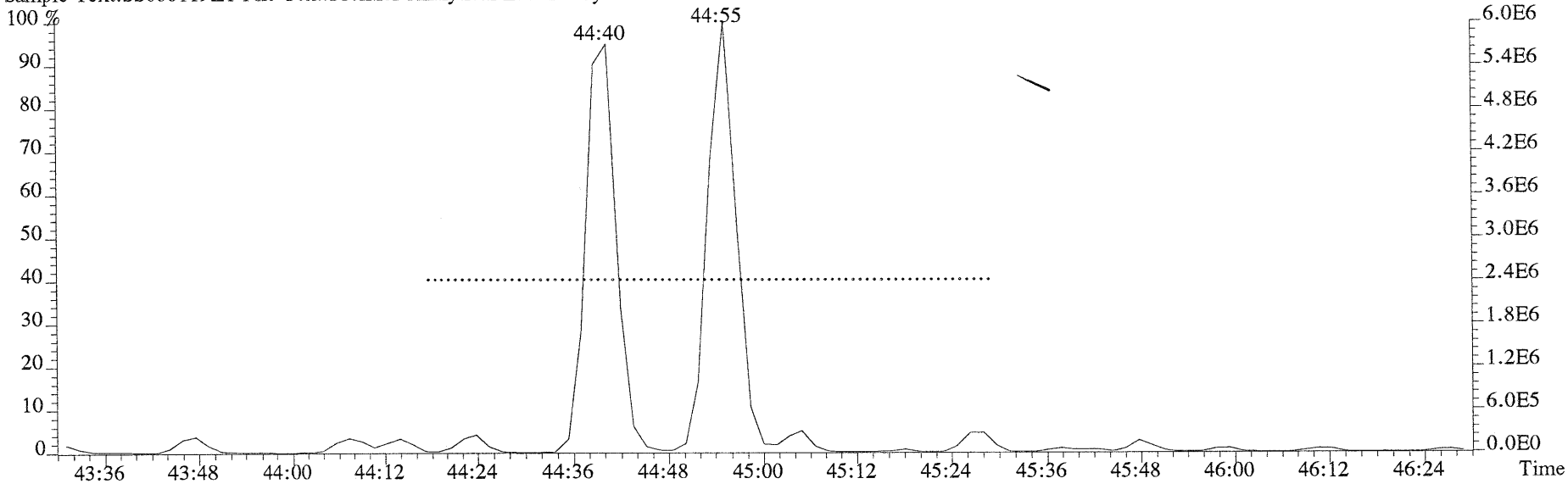
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	7.20e+07	3.16 y	14:32	1.09	52.4		2.50	-	-	*	
13C-PCB-1	1.26e+08	3.23 y	14:31	1.12	101		2.50				101
PCB-3	6.11e+07	3.07 y	16:58	1.07	51.4		2.50	-	-	*	
13C-PCB-3	1.11e+08	3.20 y	16:57	1.06	95.0		2.50				95.0
PCB-4	4.56e+07	1.53 y	18:12	1.10	49.3		2.50	-	-	*	
13C-PCB-4	8.43e+07	1.59 y	18:10	0.68	112		2.50				112
PCB-15	5.00e+07	1.59 y	23:44	1.08	48.9		2.50	-	-	*	
13C-PCB-15	9.46e+07	1.59 y	23:42	0.86	99.2		2.50				99.2
PCB-19	3.64e+07	1.05 y	22:05	1.13	49.8		2.50	-	-	*	
13C-PCB-19	6.48e+07	1.08 y	22:03	0.54	108		2.50				108
13C-PCB-9	1.11e+08	1.59 y	19:51	-	92.7		2.50				
PCB-37	3.62e+07	1.07 y	30:21	1.10	48.5		2.50	-	-	*	
13C-PCB-37	6.78e+07	1.05 y	30:21	1.42	99.4		2.50				99.4
PCB-54	4.66e+07	0.81 y	25:37	1.21	49.8		2.50	-	-	*	
13C-PCB-54	7.73e+07	0.82 y	25:36	1.29	125		2.50				125
PCB-104	3.27e+07	1.56 y	30:03	1.07	51.3		2.50	-	-	*	
13C-PCB-104	5.96e+07	1.60 y	30:01	1.09	115		2.50				115
13C-PCB-28	8.15e+07	1.05 y	26:40	1.76	96.5		2.50				96.5
13C-PCB-52	4.79e+07	0.80 y	28:56	-	92.8		2.50				
PCB-81	3.04e+07	0.79 y	36:08	1.21	47.1		2.50	-	-	*	
13C-PCB-81	5.31e+07	0.80 y	36:06	1.46	98.6		2.50				98.6
PCB-77	2.98e+07	0.79 y	36:42	1.03	53.9		2.50	-	-	*	
13C-PCB-77	5.38e+07	0.80 y	36:40	1.53	95.3		2.50				95.3
PCB-155	2.65e+07	1.29 y	34:11	1.09	49.4		2.50	-	-	*	
13C-PCB-155	4.92e+07	1.30 y	34:10	1.19	112		2.50				112
13C-PCB-111	4.87e+07	1.63 y	36:15	1.26	105		2.50				105
13C-PCB-101	3.68e+07	1.62 y	34:37	-	89.9		2.50				
PCB-123	2.68e+07	1.55 y	38:20	0.99	55.4		2.50	-	-	*	
13C-PCB-123	4.90e+07	1.58 y	38:18	1.17	118		2.50				118
PCB-118	2.84e+07	1.59 y	38:29	1.09	48.9		2.50	-	-	*	
13C-PCB-118	5.34e+07	1.59 y	38:28	1.27	118		2.50				118
PCB-114	2.67e+07	1.59 y	39:06	1.10	49.7		2.50	-	-	*	
13C-PCB-114	4.90e+07	1.58 y	39:06	1.24	111		2.50				111
PCB-105	2.64e+07	1.61 y	39:55	1.15	45.5		2.50	-	-	*	
13C-PCB-105	5.03e+07	1.60 y	39:55	1.24	114		2.50				114
PCB-126	2.48e+07	1.58 y	42:03	1.11	49.0		2.50	-	-	*	
13C-PCB-126	4.57e+07	1.60 y	42:02	1.18	109		2.50				109
PCB-167	2.48e+07	1.26 y	43:24	1.11	50.2		2.50	-	-	*	
13C-PCB-167	4.46e+07	1.29 y	43:22	1.15	108		2.50				108
PCB-156	2.52e+07	1.27 y	44:38	1.17	48.7		2.50	-	-	*	
13C-PCB-156	4.42e+07	1.29 y	44:36	1.13	109		2.50				109
PCB-157	2.51e+07	1.26 y	44:53	1.12	47.0		2.50	-	-	*	
13C-PCB-157	4.76e+07	1.29 y	44:51	1.15	116		2.50				116
PCB-169	2.57e+07	1.27 y	46:45	1.07	51.9		2.50	-	-	*	
13C-PCB-169	4.64e+07	1.28 y	46:45	1.16	112		2.50				112
PCB-188	2.51e+07	1.05 y	39:42	1.07	50.9		2.50	-	-	*	
13C-PCB-188	4.63e+07	1.07 y	39:40	1.14	114		2.50				114
PCB-189	2.37e+07	1.07 y	48:25	1.08	47.6		2.50	-	-	*	
13C-PCB-189	4.60e+07	1.06 y	48:24	1.12	115		2.50				115
PCB-202	2.19e+07	0.92 y	44:48	1.01	50.3		2.50	-	-	*	
13C-PCB-202	4.32e+07	0.91 y	44:46	0.99	123		2.50				123
13C-PCB-178	3.03e+07	1.09 y	42:18	0.77	111		2.50				111
13C-PCB-138	3.56e+07	1.30 y	41:32	-	83.2		2.50				

FAL ID: ST080119Z2 Filename: 01AUG19Z Sam:16 Acquired: 1-AUG-19 22:01:41 ICal: DAILY209FAL4-8-1-19 2 of 2
Client ID: 1668 CS3 R181204D ConCal: ST080119Z1 EndCal: ST080119Z2
Results: 12510-11 GC Column: DB1MS Amount: 1.000

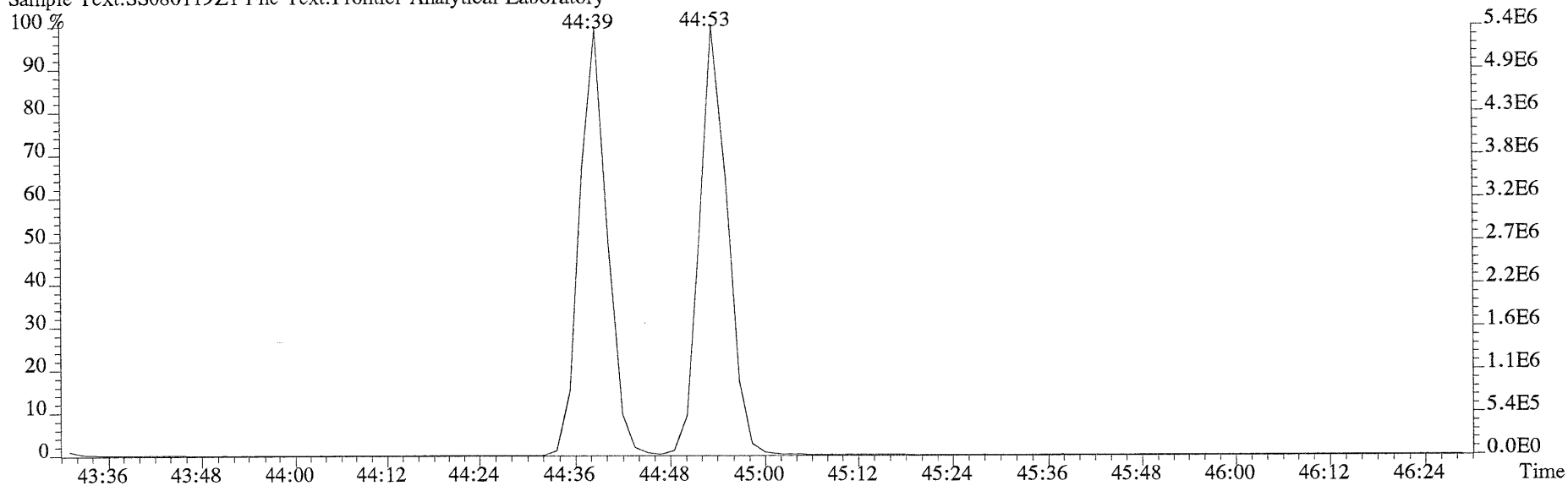
PCB-205	2.83e+07	0.91	y	50:05	1.05	52.8	2.50	-	-	*	
13C-PCB-205	5.11e+07	0.89	y	50:03	1.33	101	2.50				101
PCB-208	2.75e+07	1.38	y	49:08	1.02	49.2	2.50	-	-	*	
13C-PCB-208	5.47e+07	0.79	y	49:08	1.36	107	2.50				107
PCB-206	2.02e+07	1.37	y	51:17	1.04	49.9	2.50	-	-	*	
13C-PCB-206	3.90e+07	0.80	y	51:15	0.94	109	2.50				109
PCB-209	2.73e+07	1.19	y	52:28	1.12	49.6	2.50	-	-	*	
13C-PCB-209	4.92e+07	1.20	y	52:27	1.30	100	2.50				100
13C-PCB-194	3.78e+07	0.91	y	49:48	-	97.8	2.50				

Analyst: _____ Date: 8/2/19

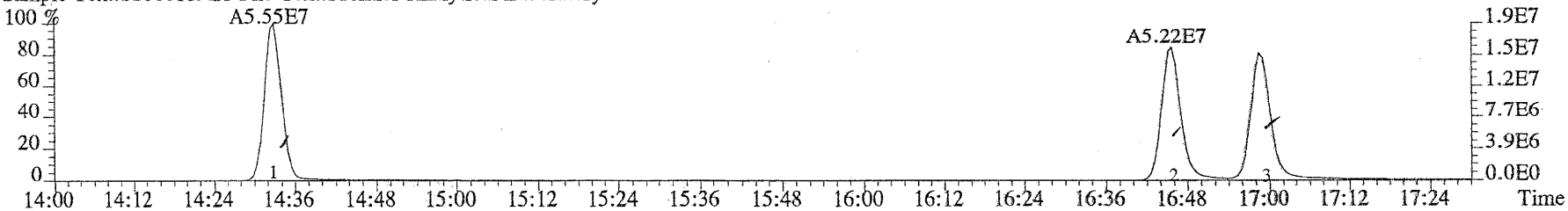
File:01AUG19Z #1-382 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



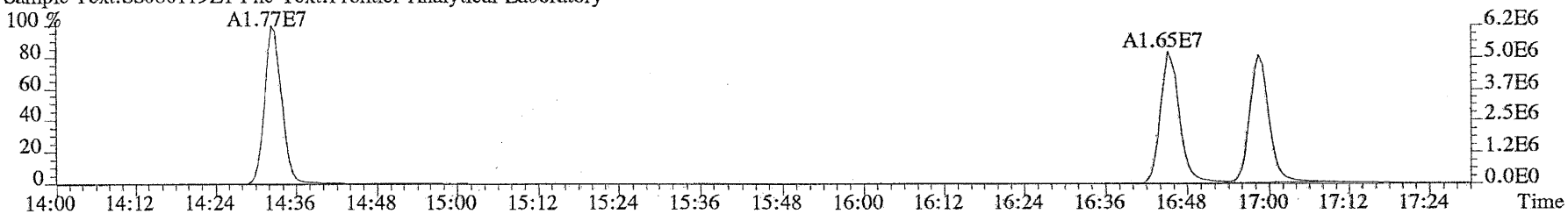
File:01AUG19Z #1-382 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



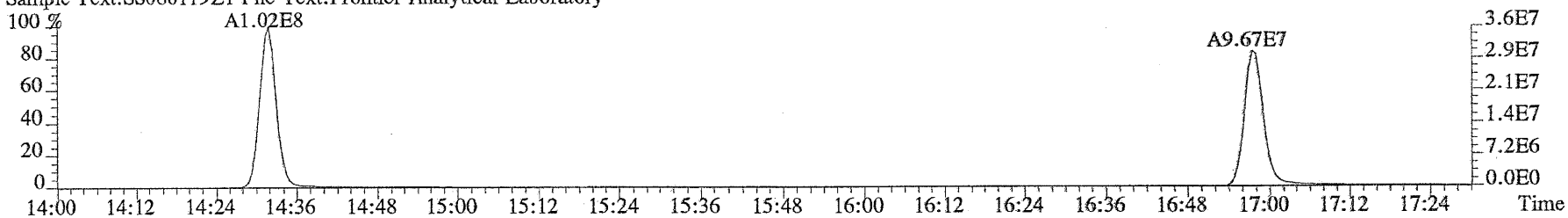
File:01AUG19Z #1-783 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



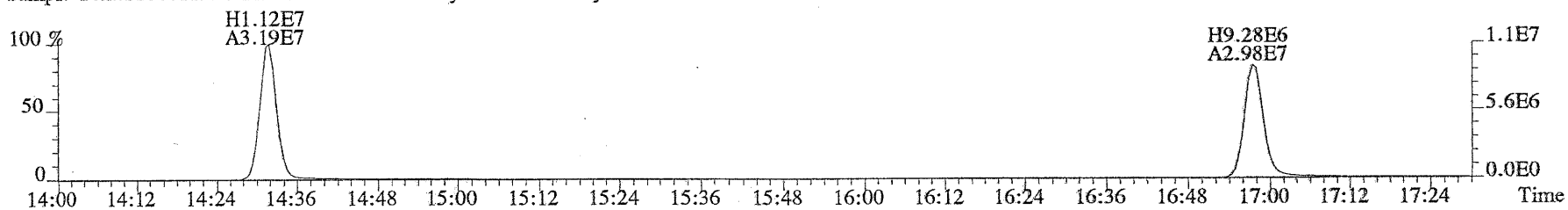
File:01AUG19Z #1-783 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



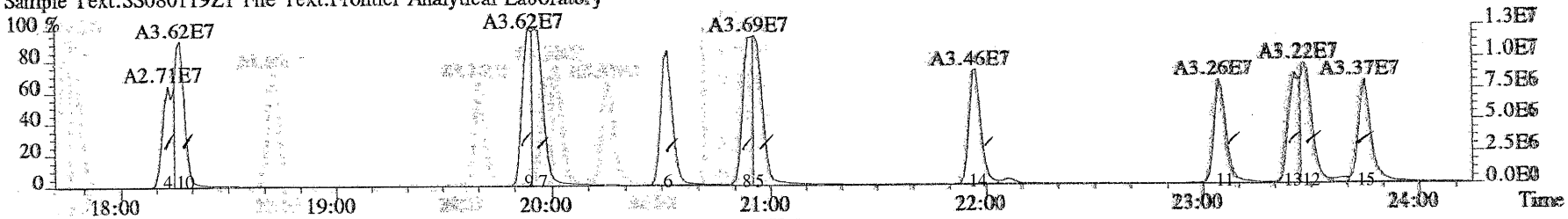
File:01AUG19Z #1-783 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



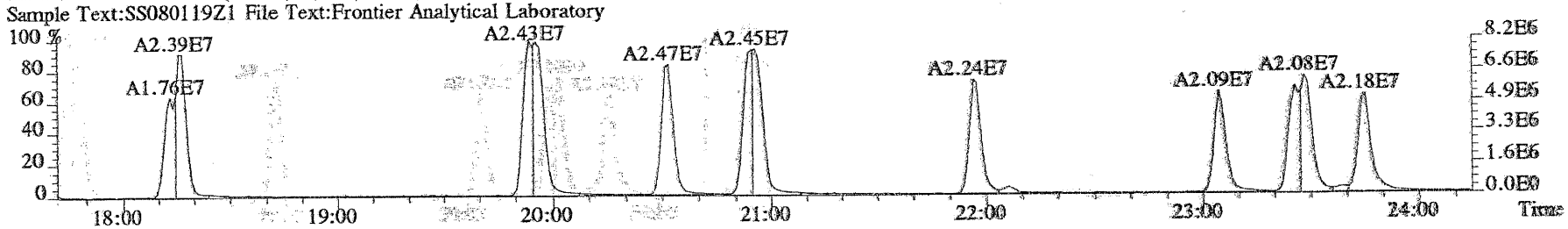
File:01AUG19Z #1-783 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



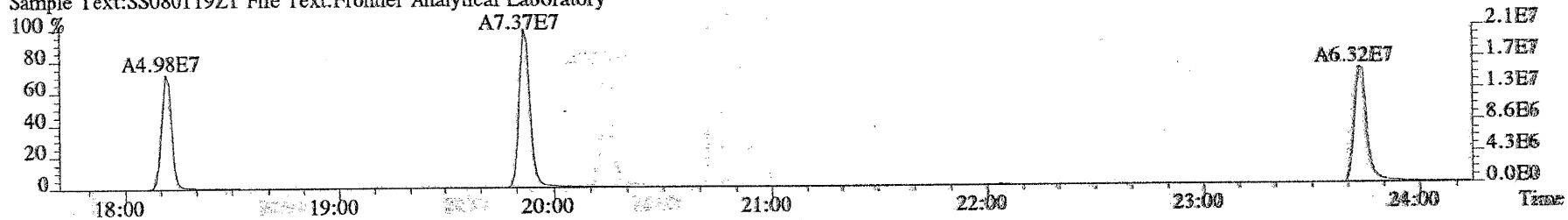
File:01AUG19Z #1-520 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



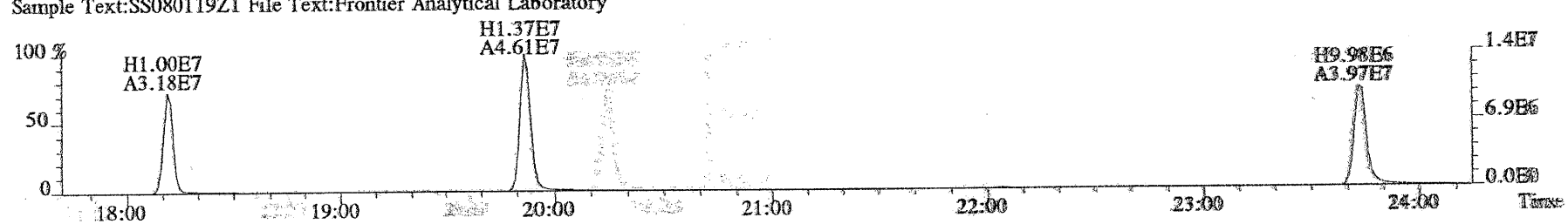
File:01AUG19Z #1-520 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



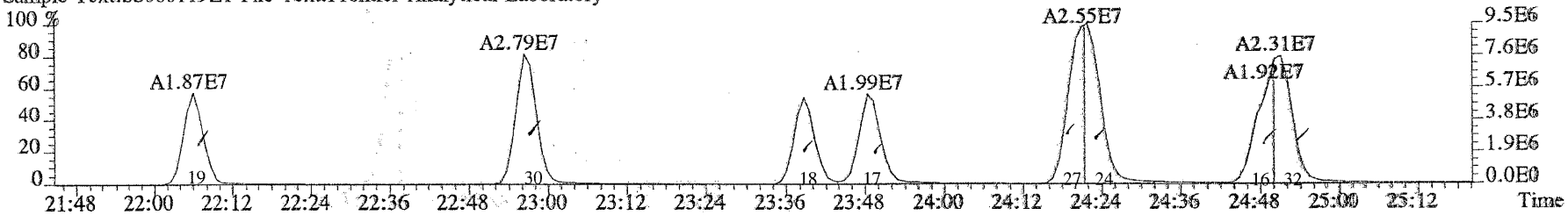
File:01AUG19Z #1-520 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



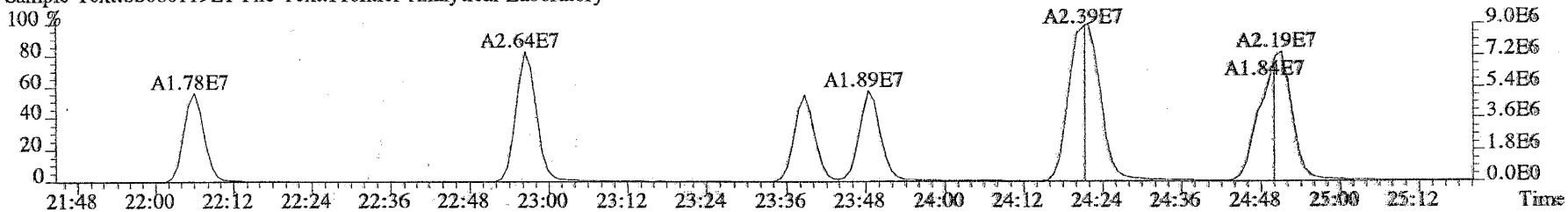
File:01AUG19Z #1-520 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



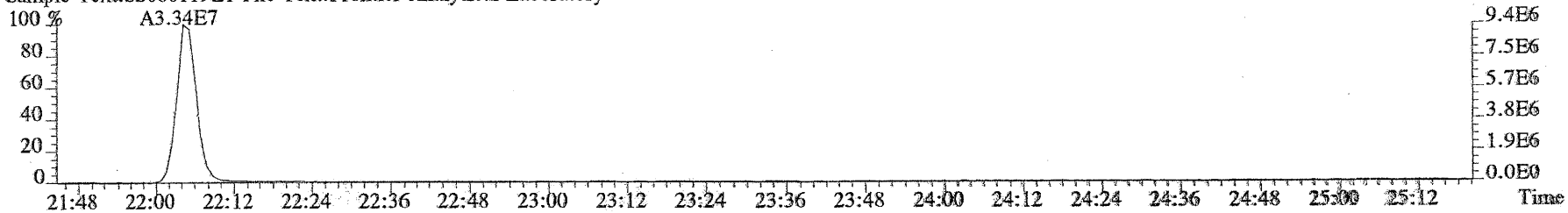
File:01AUG19Z #1-520 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



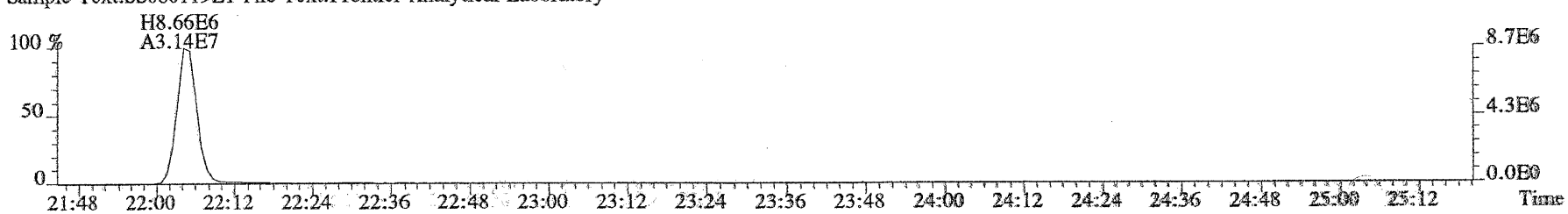
File:01AUG19Z #1-520 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



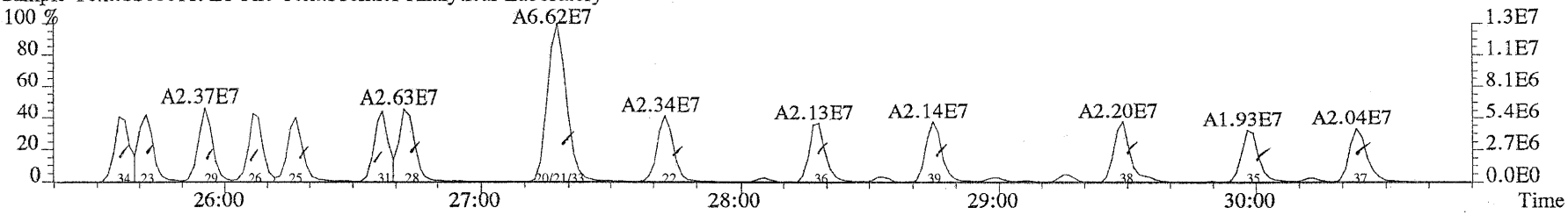
File:01AUG19Z #1-520 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



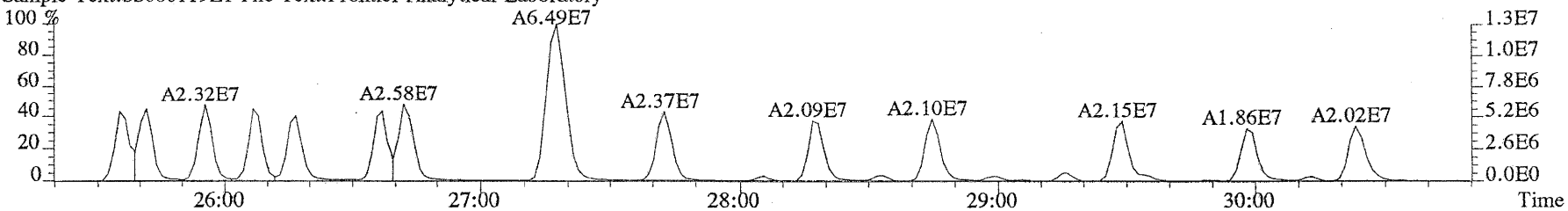
File:01AUG19Z #1-520 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



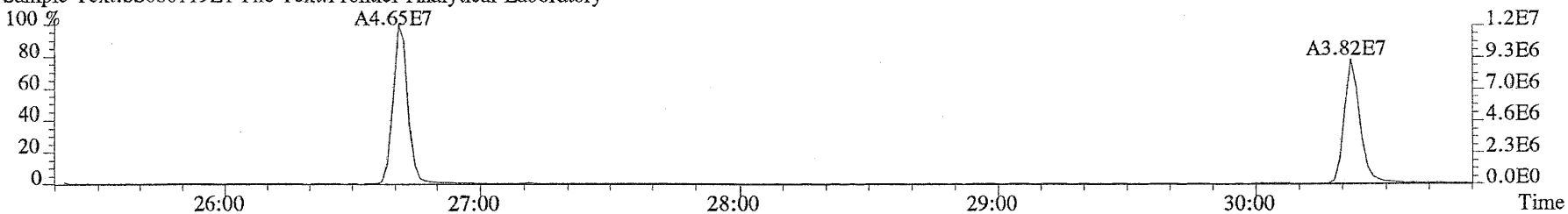
File:01AUG19Z #1-402 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



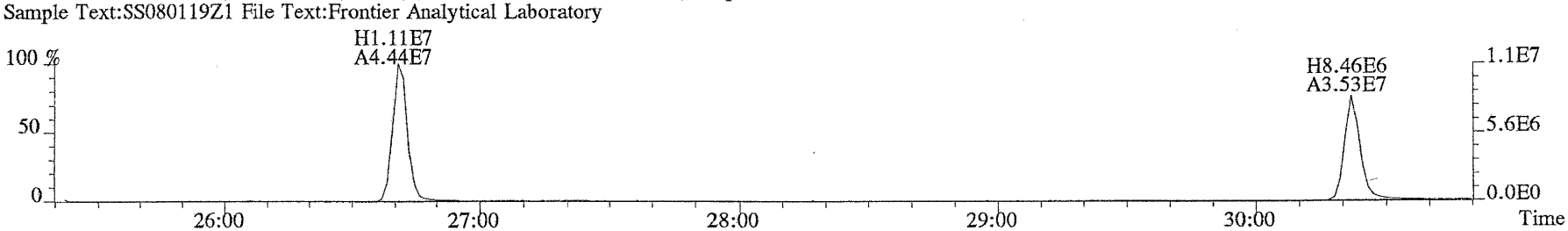
File:01AUG19Z #1-402 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



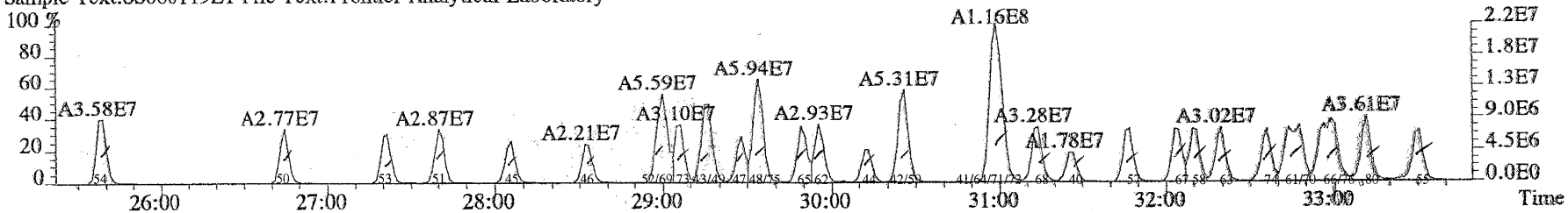
File:01AUG19Z #1-402 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



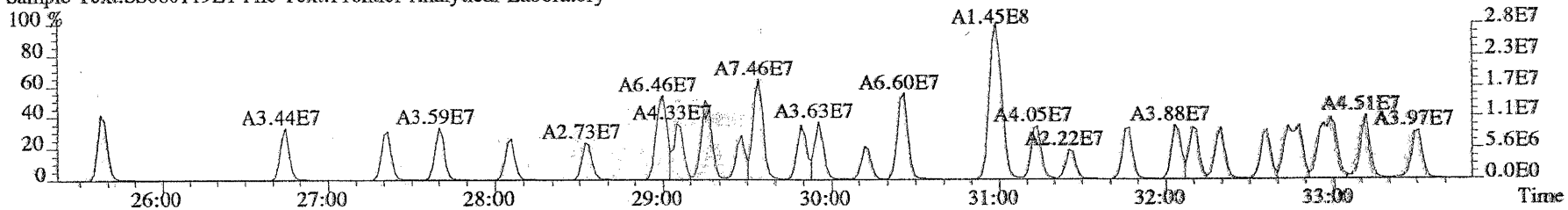
File:01AUG19Z #1-402 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



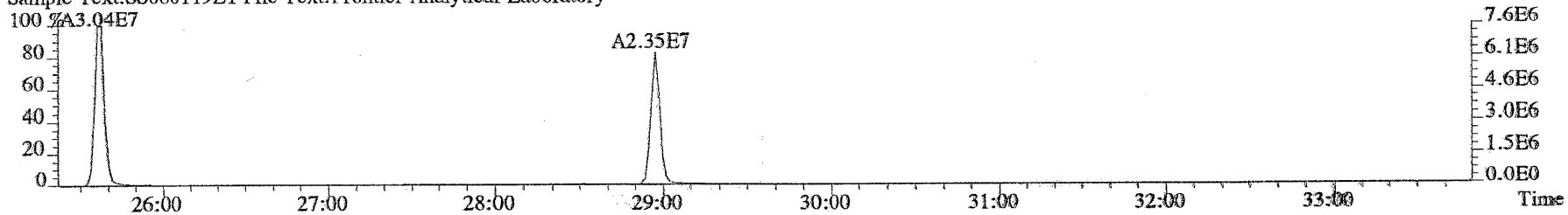
File:01AUG19Z #1-402 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



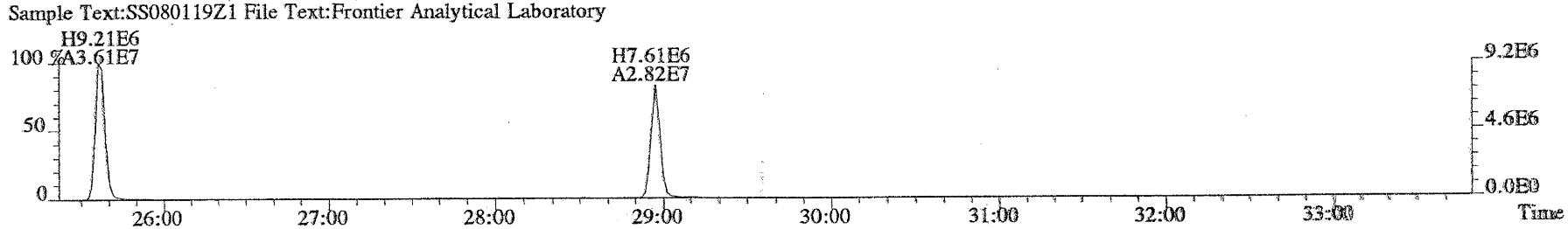
File:01AUG19Z #1-402 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



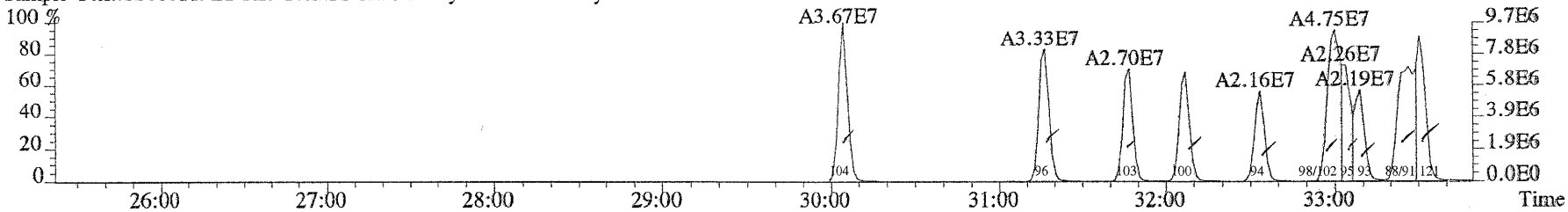
File:01AUG19Z #1-402 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



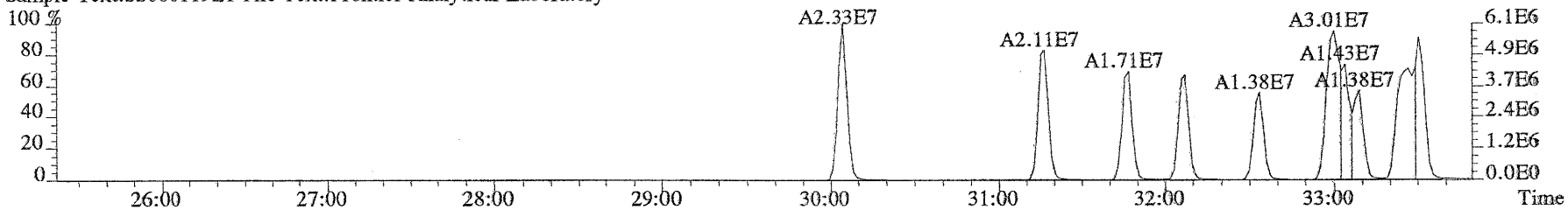
File:01AUG19Z #1-402 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



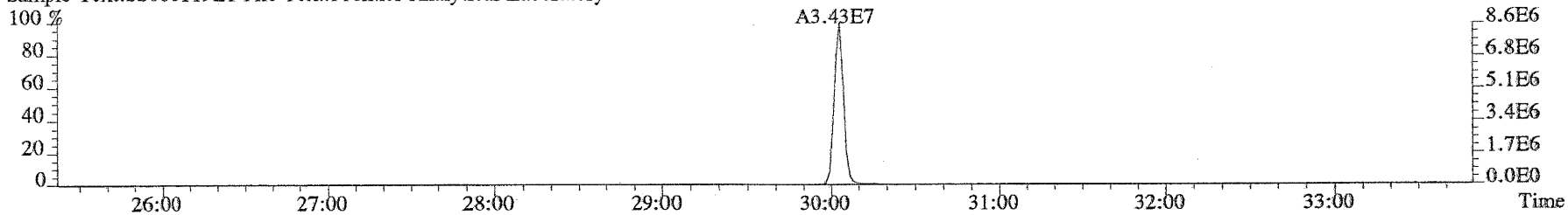
File:01AUG19Z #1-402 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



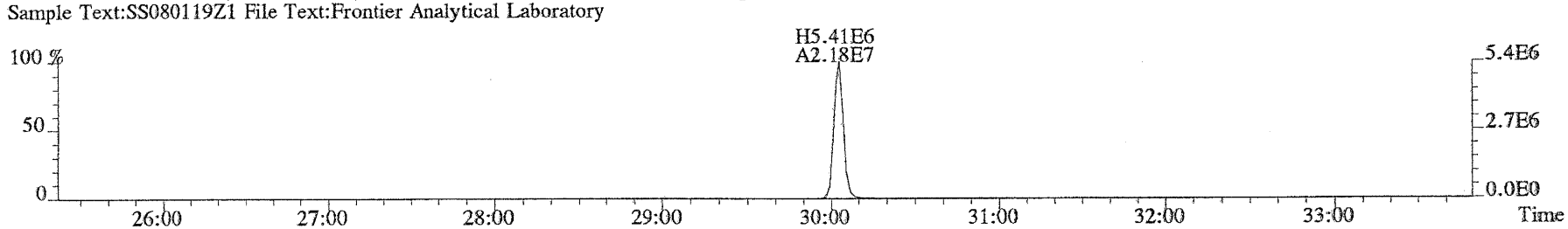
File:01AUG19Z #1-402 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



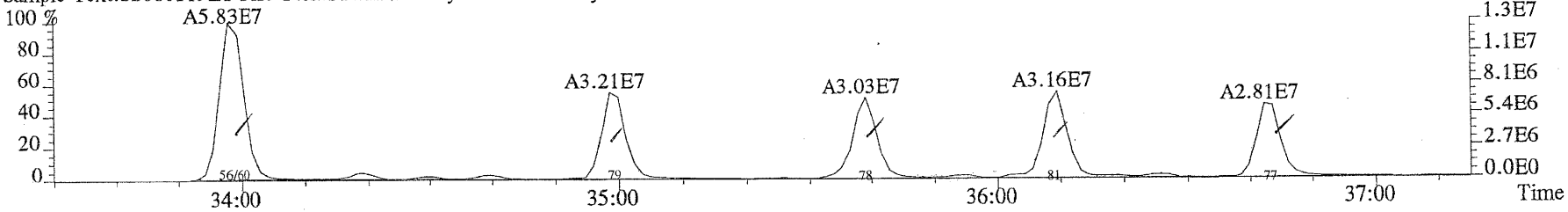
File:01AUG19Z #1-402 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



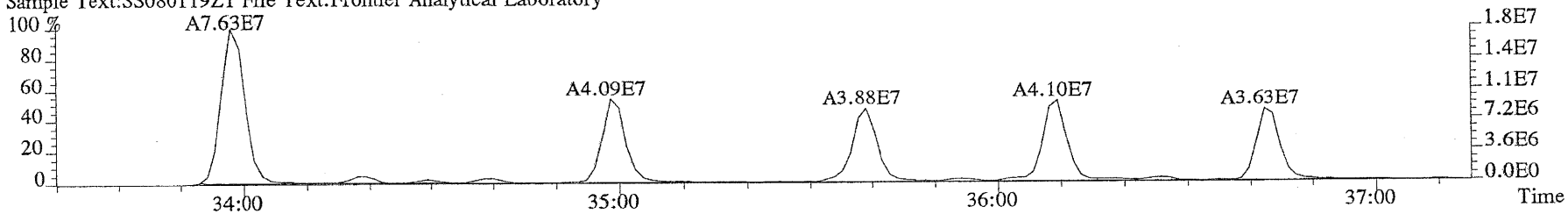
File:01AUG19Z #1-402 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



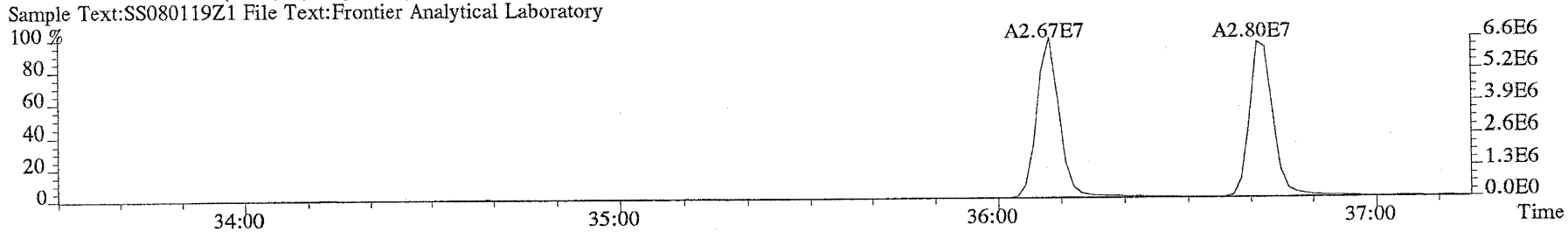
File:01AUG19Z #1-180 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



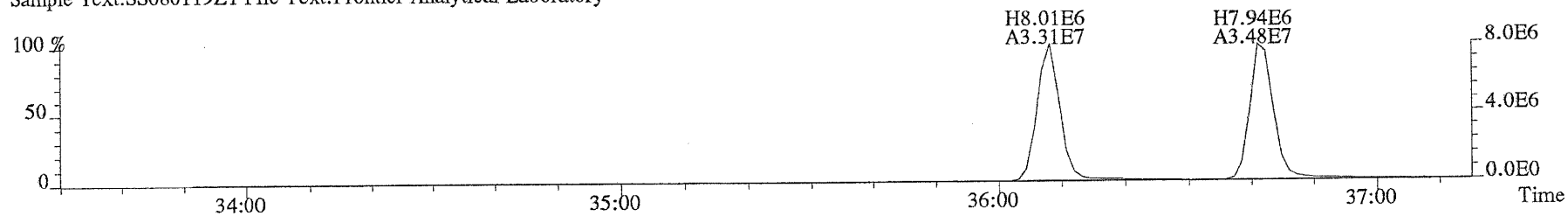
File:01AUG19Z #1-180 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



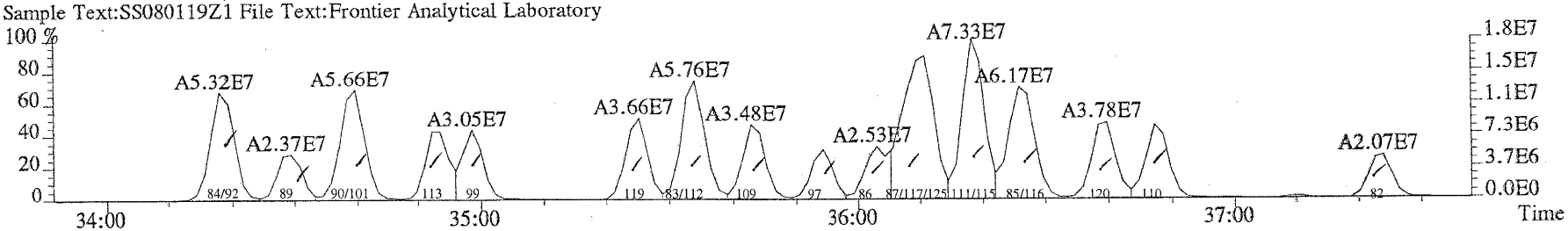
File:01AUG19Z #1-180 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



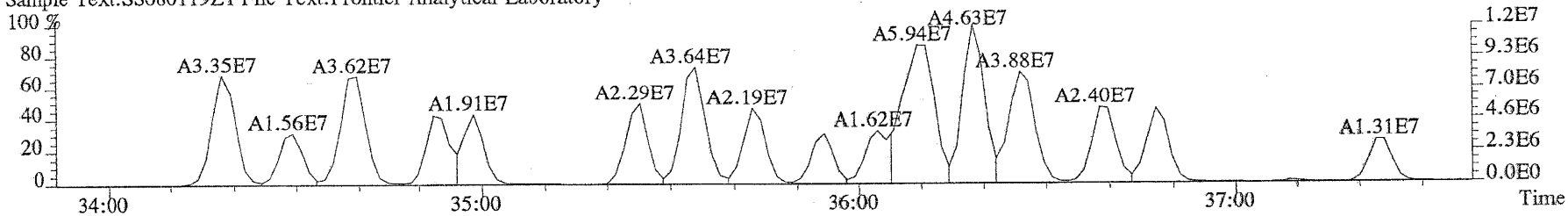
File:01AUG19Z #1-180 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



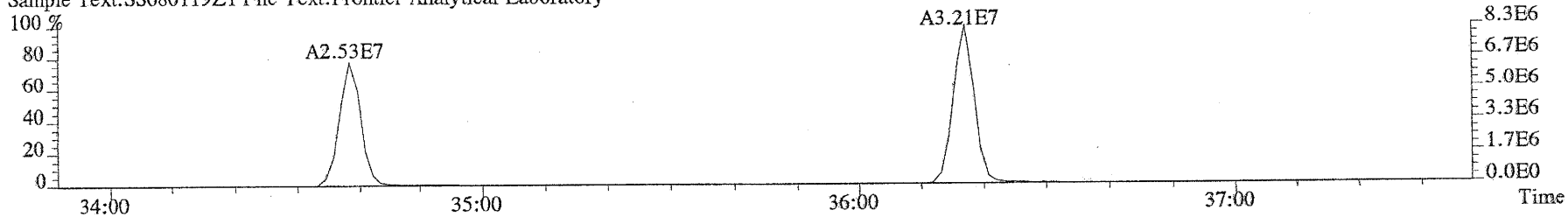
File:01AUG19Z #1-180 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



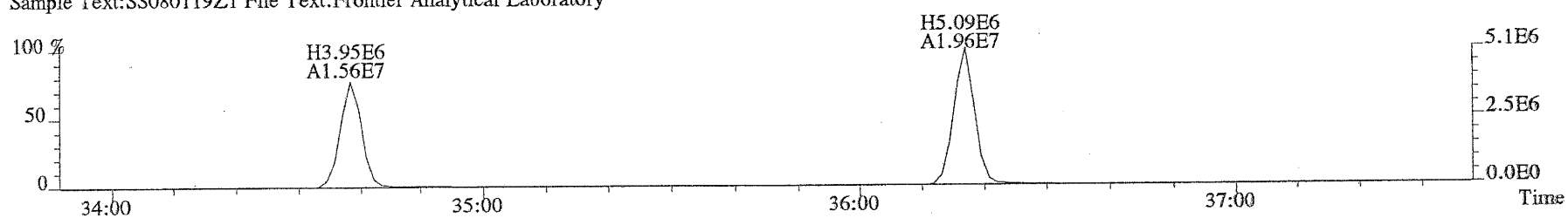
File:01AUG19Z #1-180 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



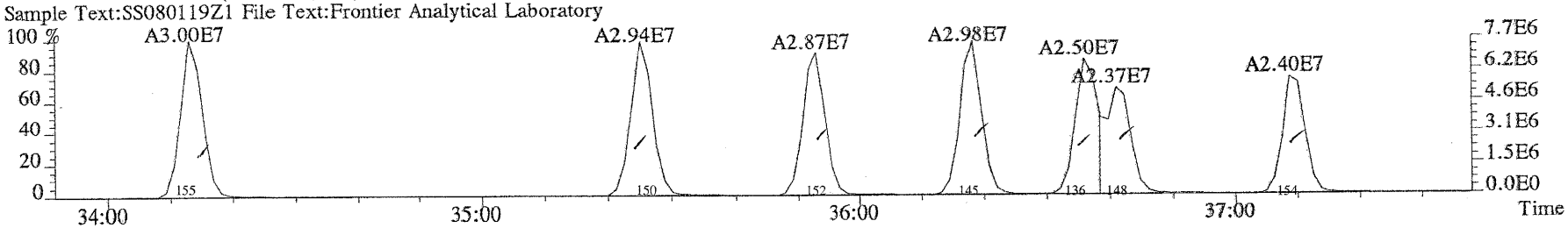
File:01AUG19Z #1-180 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



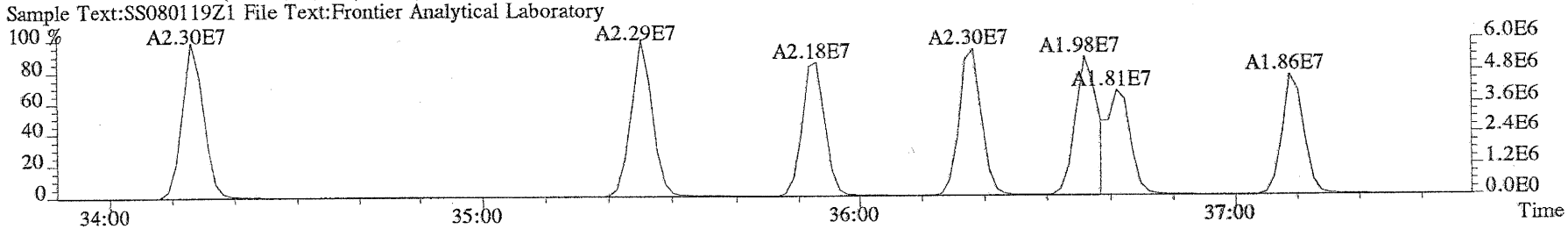
File:01AUG19Z #1-180 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



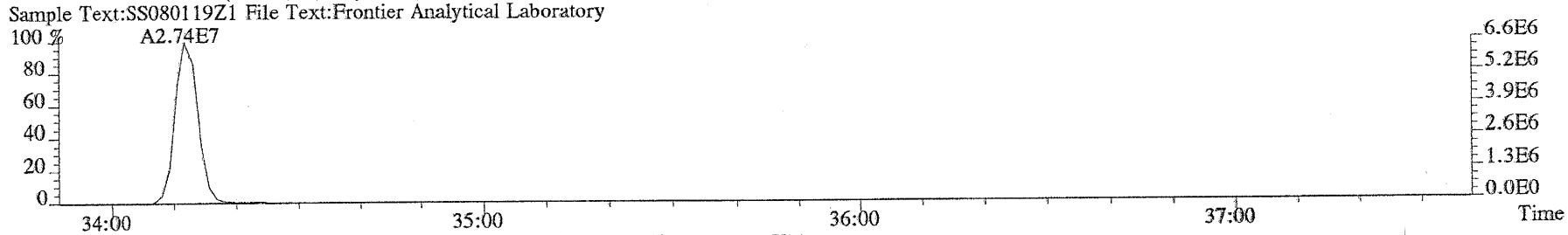
File:01AUG19Z #1-180 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



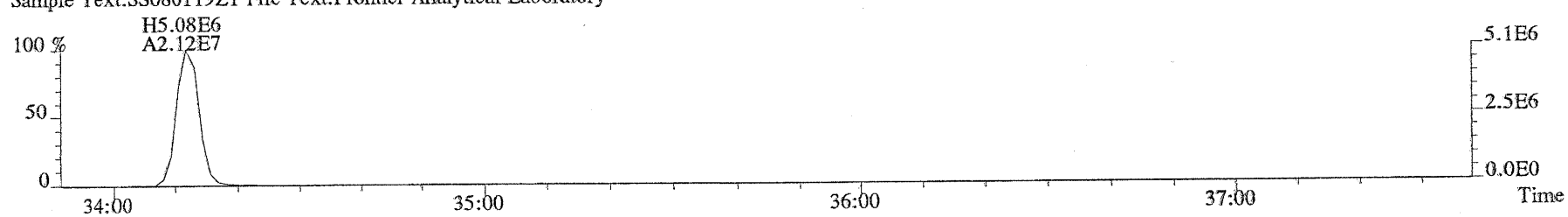
File:01AUG19Z #1-180 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



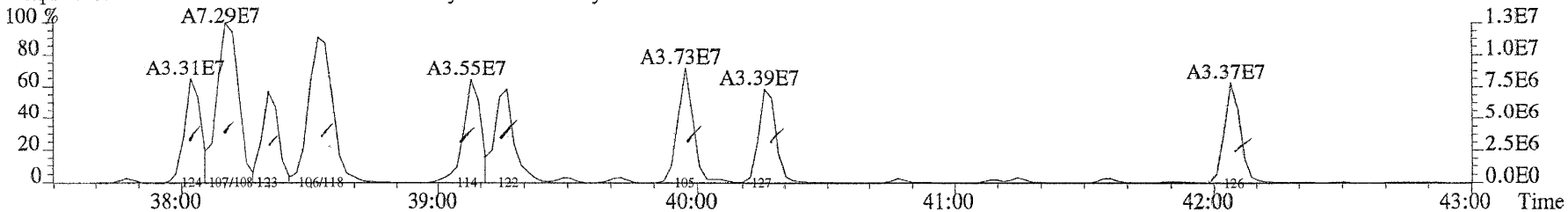
File:01AUG19Z #1-180 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-180 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 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:SS080119Z1 File Text:Frontier Analytical Laboratory



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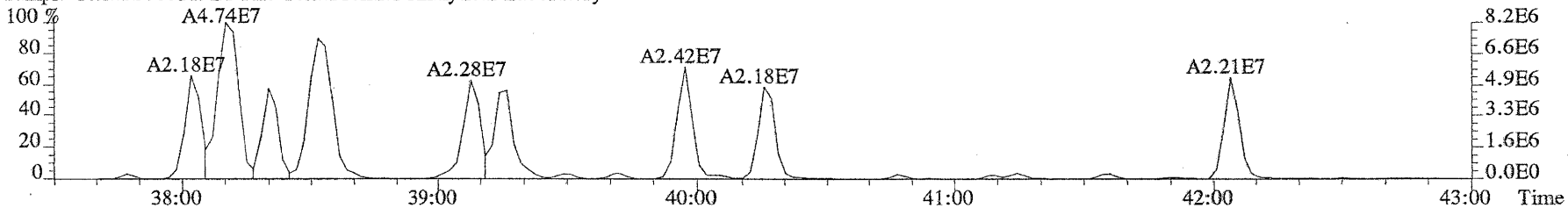
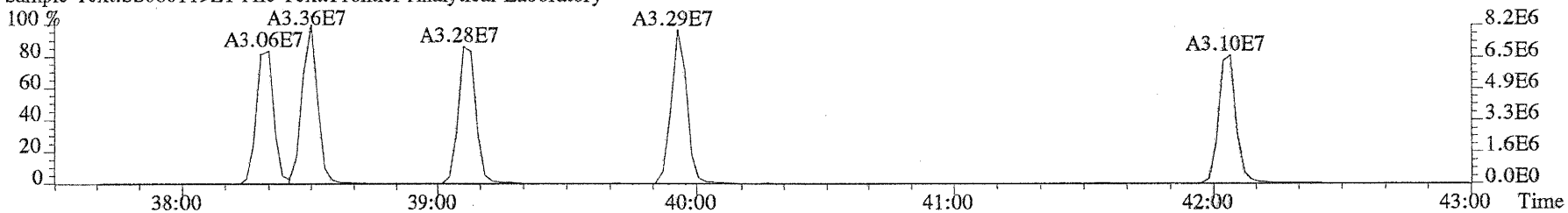
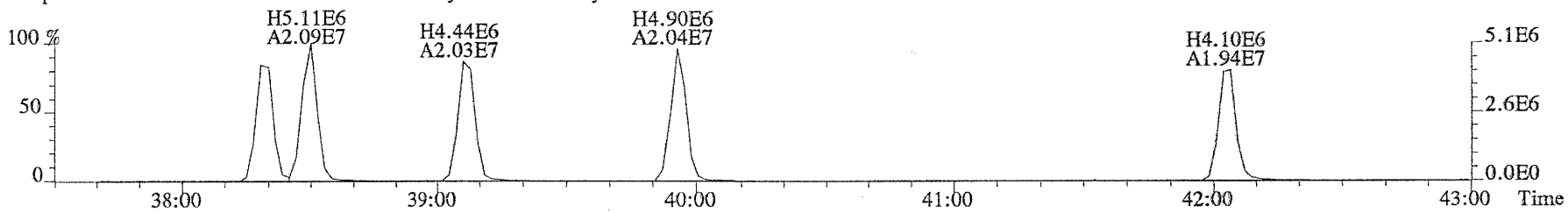
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



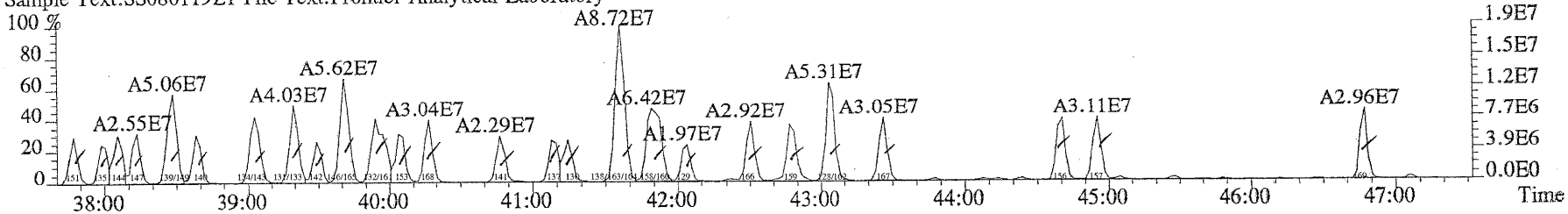
File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



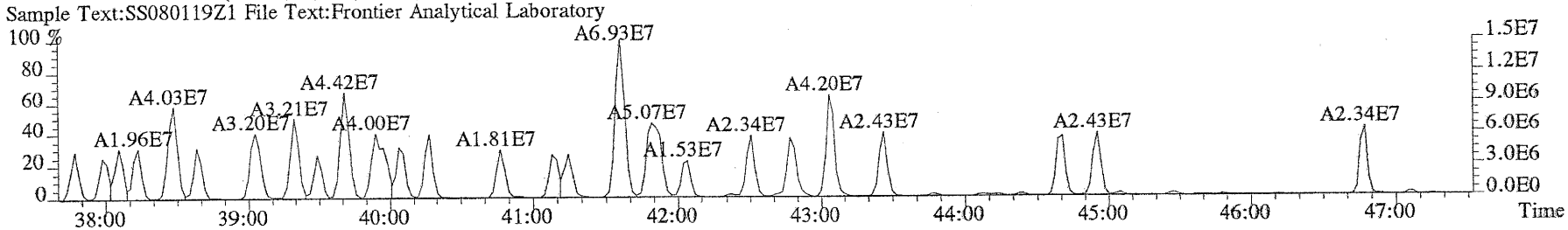
File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



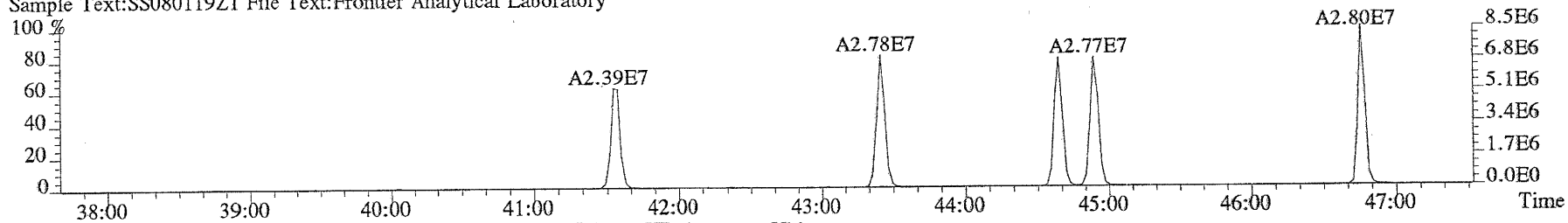
File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



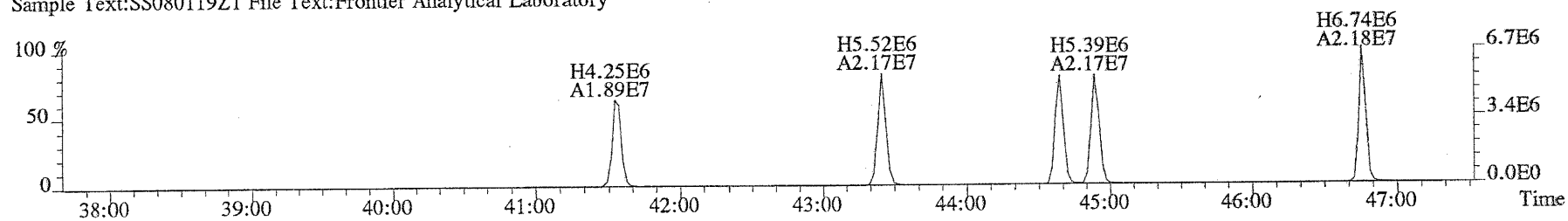
File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



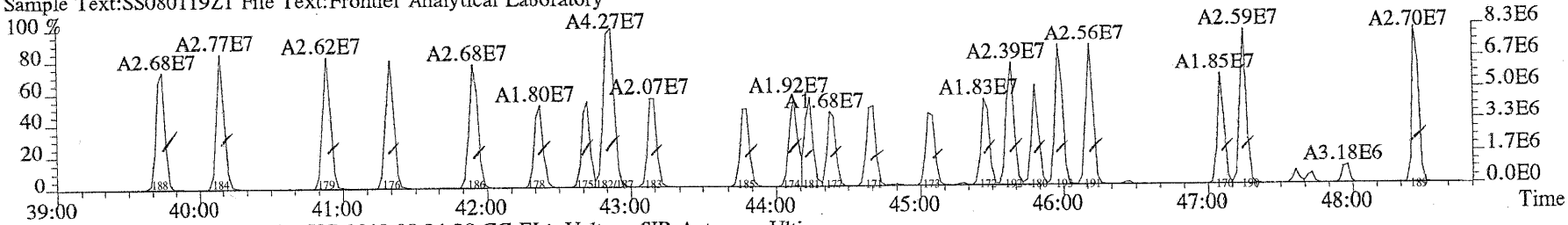
File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



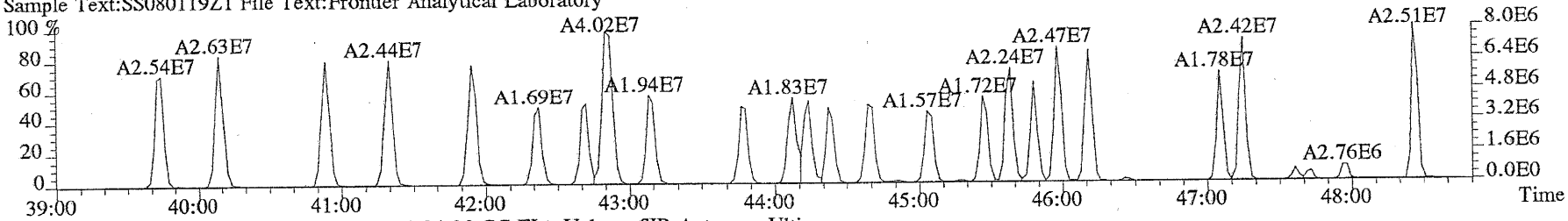
File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



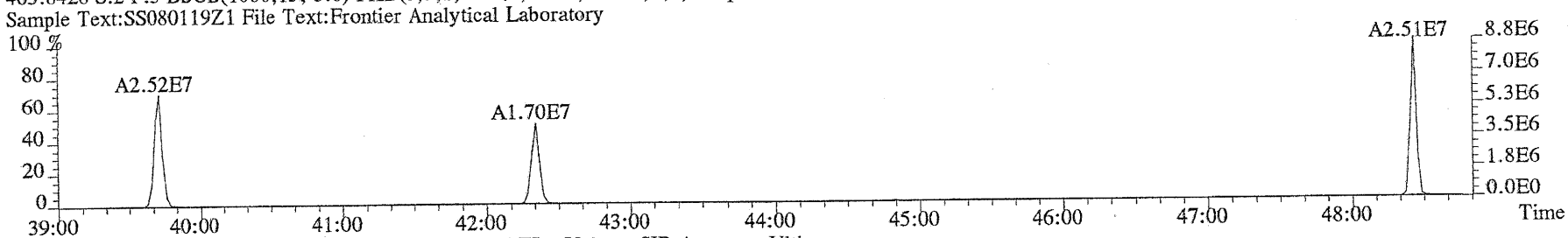
File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



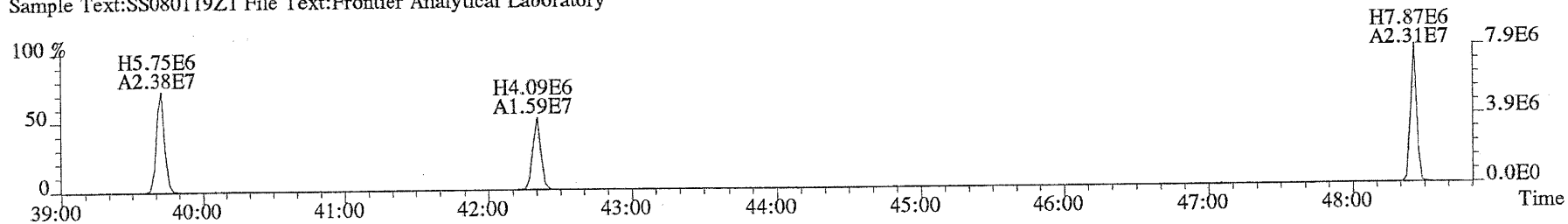
File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



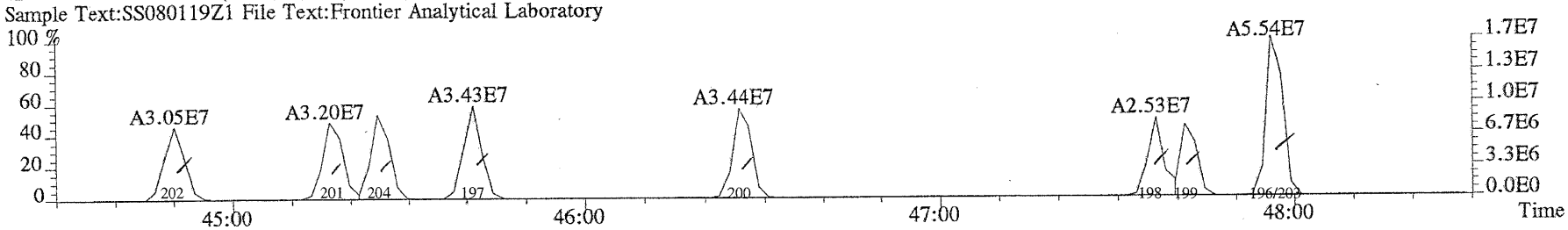
File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



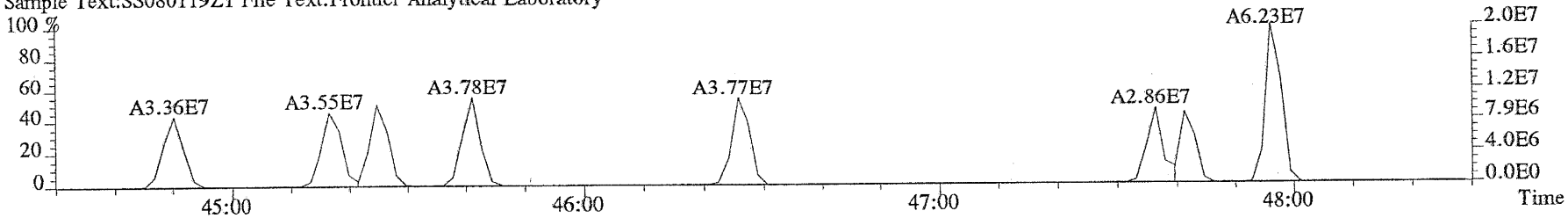
File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



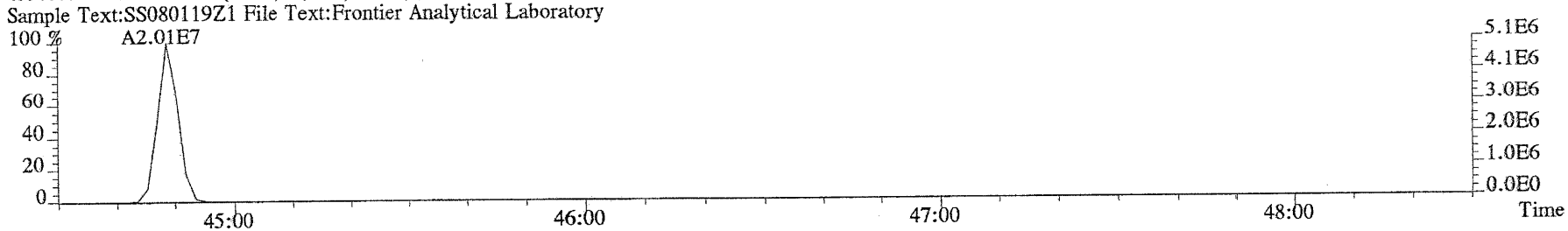
File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



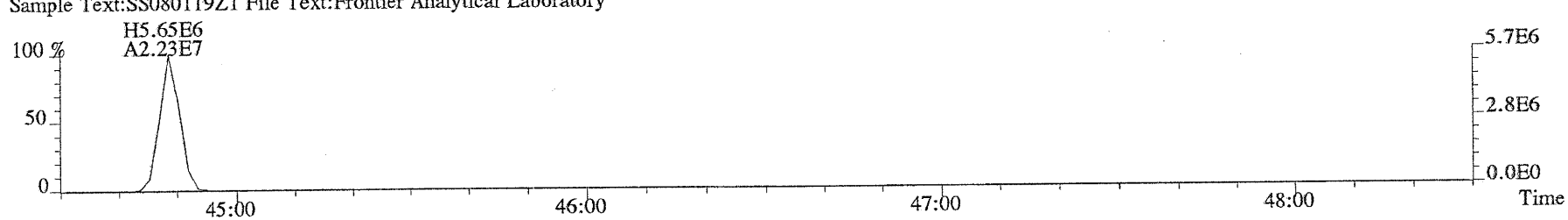
File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



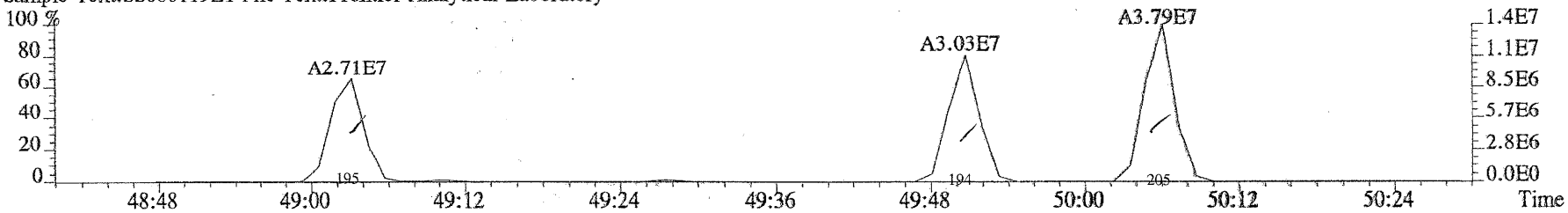
File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



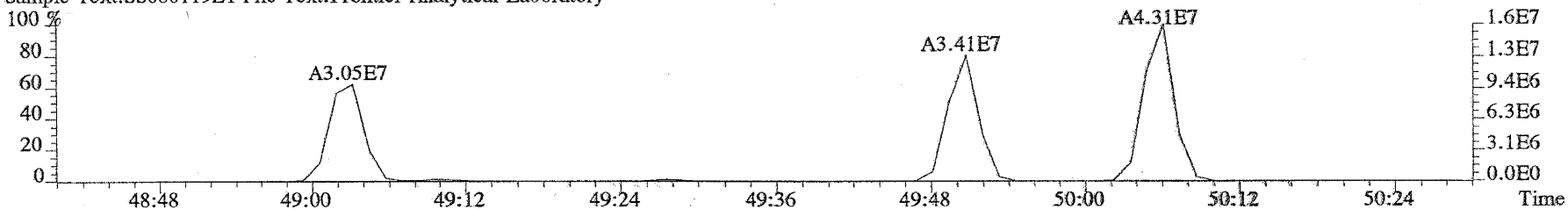
File:01AUG19Z #1-405 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



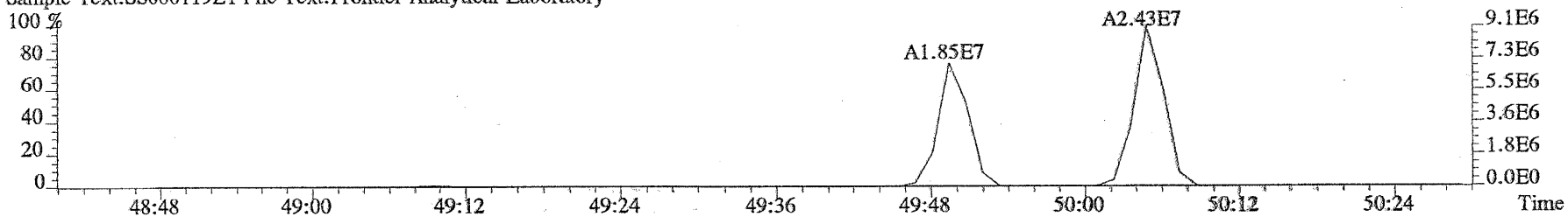
File:01AUG19Z #1-315 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



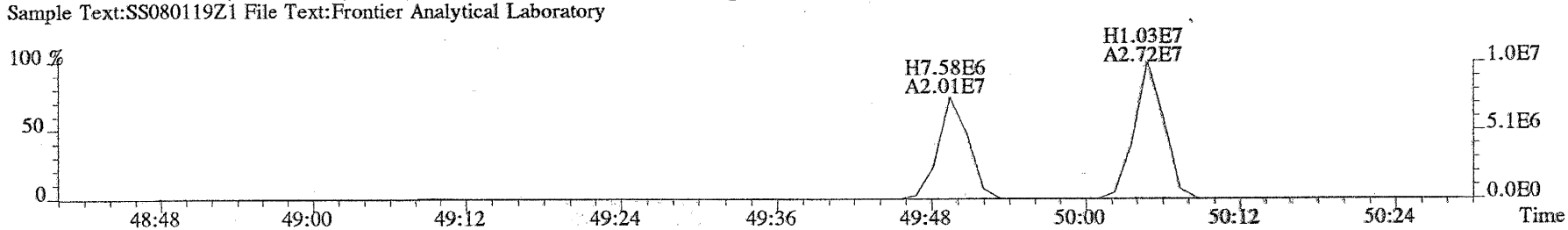
File:01AUG19Z #1-315 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



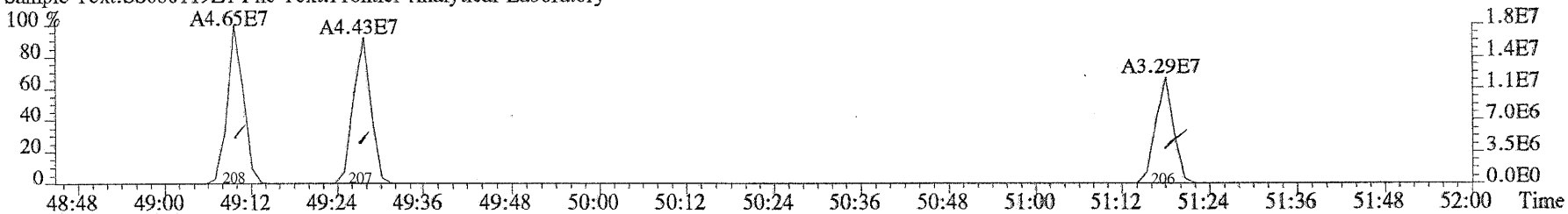
File:01AUG19Z #1-315 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



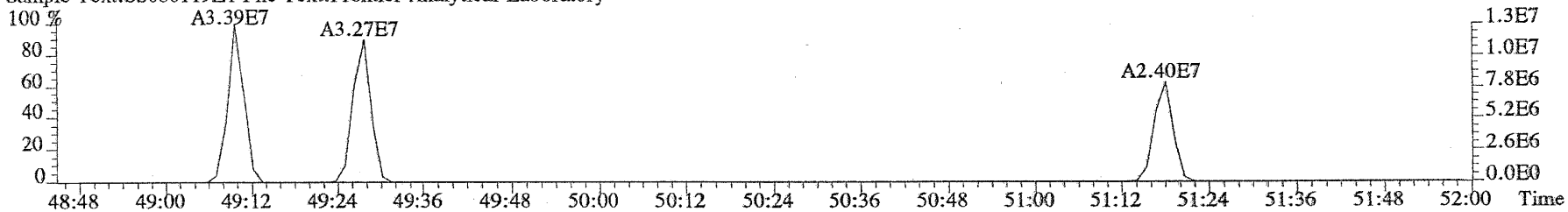
File:01AUG19Z #1-315 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



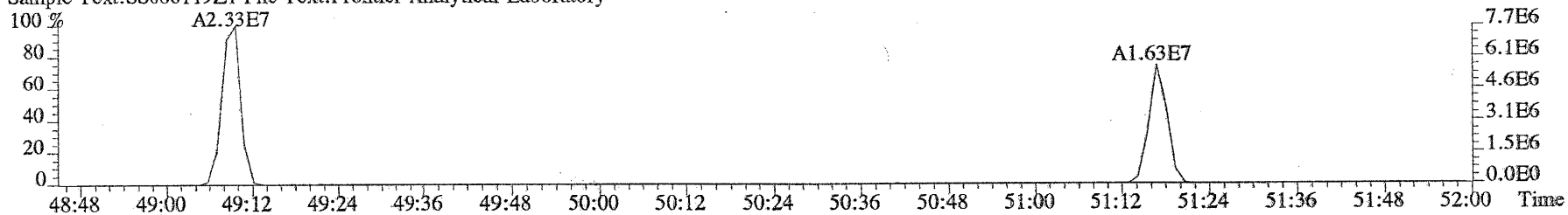
File:01AUG19Z #1-315 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



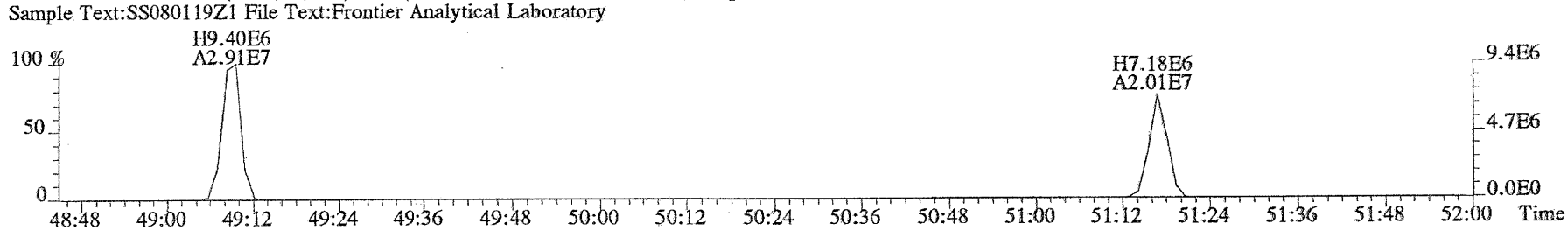
File:01AUG19Z #1-315 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



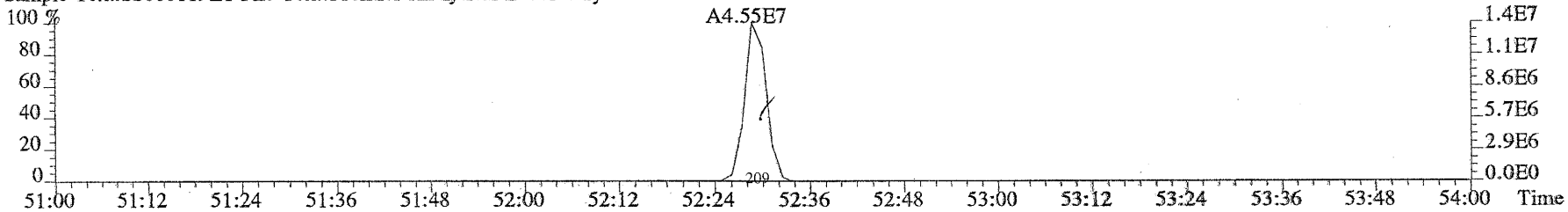
File:01AUG19Z #1-315 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



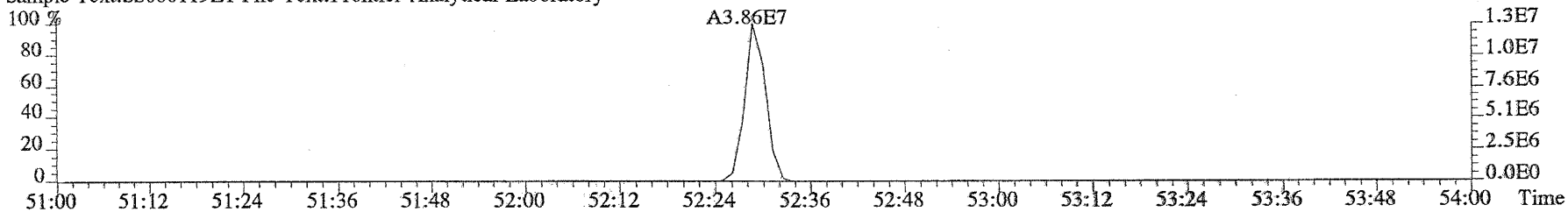
File:01AUG19Z #1-315 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



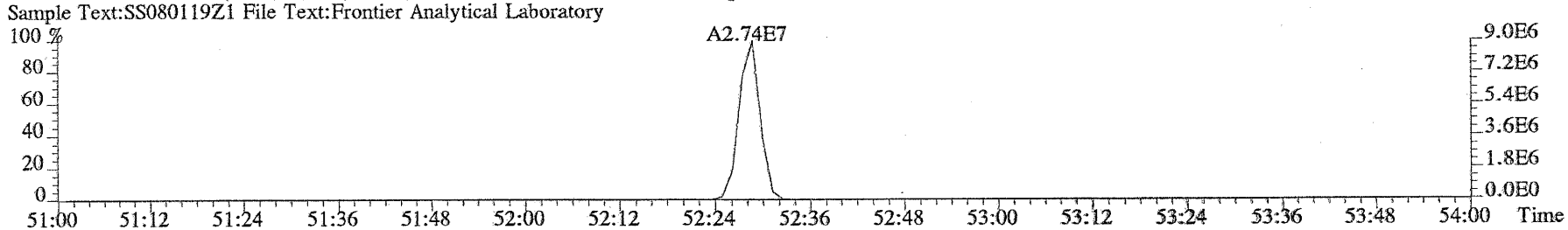
File:01AUG19Z #1-315 Acq: 1-AUG-2019 08:24:20 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080119Z1 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-315 Acq: 1-AUG-2019 08:24:20 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:SS080119Z1 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-315 Acq: 1-AUG-2019 08:24:20 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:SS080119Z1 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-315 Acq: 1-AUG-2019 08:24:20 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
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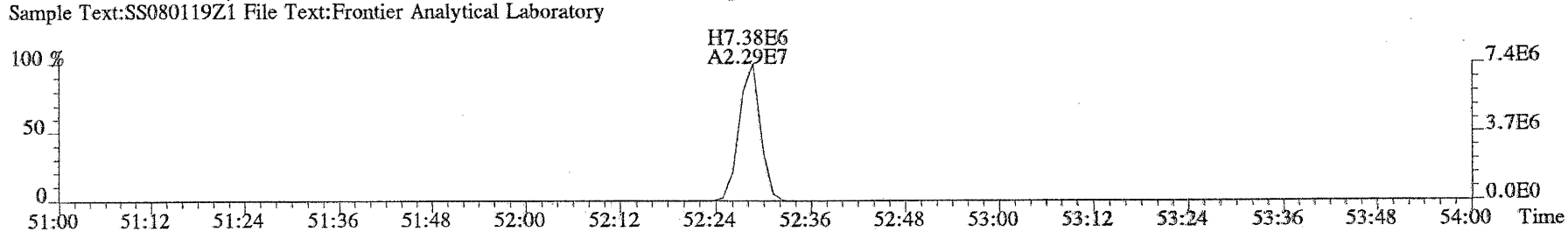


Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 01AUG19Z Sam:16 Analysis Date: 1-AUG-19 22:01:41

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	47.8	37.5 - 62.5
PCB-3	M/M+2	3.07	2.66-3.60	y	46.6	37.5 - 62.5
PCB-4	M/M+2	1.53	1.33-1.79	y	51.7	37.5 - 62.5
PCB-15	M/M+2	1.59	1.33-1.79	y	51.3	37.5 - 62.5
PCB-19	M/M+2	1.05	0.88-1.20	y	50.6	37.5 - 62.5
PCB-37	M/M+2	1.07	0.88-1.20	y	51.5	37.5 - 62.5
PCB-54	M/M+2	0.81	0.65-0.89	y	51.8	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	54.1	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	53.8	37.5 - 62.5
PCB-104	M+2/M+4	1.56	1.32-1.78	y	50.8	37.5 - 62.5
PCB-105	M+2/M+4	1.61	1.32-1.78	y	51.7	37.5 - 62.5
PCB-114	M+2/M+4	1.59	1.32-1.78	y	53.8	37.5 - 62.5
PCB-118	M+2/M+4	1.59	1.32-1.78	y	52.2	37.5 - 62.5
PCB-123	M+2/M+4	1.55	1.32-1.78	y	52.9	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	53.4	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	52.6	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	51.9	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	49.7	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	52.0	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	52.2	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	53.4	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	51.8	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	51.3	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	54.1	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	52.1	37.5 - 62.5
PCB-208	M+4/M+6	1.38	1.13-1.53	y	51.5	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	50.9	37.5 - 62.5

Analyst: [signature] Date: 8/2/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 01AUG19Z Sam:16 Analysis Date: 1-AUG-19 22:01:41

	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	112	50.0 - 145
13C-PCB-3	M/M+2	3.20	2.66-3.60	y	104	50.0 - 145
13C-PCB-4	M/M+2	1.59	1.33-1.79	y	103	50.0 - 145
13C-PCB-15	M/M+2	1.59	1.33-1.79	y	88.6	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	111	50.0 - 145
13C-PCB-37	M/M+2	1.05	0.88-1.20	y	90.3	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	117	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	93.4	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	96.2	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	113	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	98.1	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	95.0	50.0 - 145
13C-PCB-118	M+2/M+4	1.59	1.32-1.78	y	97.8	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	98.6	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	93.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.30	1.05-1.43	y	94.3	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	100	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	100.0	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	97.6	50.0 - 145
13C-PCB-169	M+2/M+4	1.28	1.05-1.43	y	105	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	101	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	121	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	112	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	96.5	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	102	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	106	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	107	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	99.5	65.0 - 135
13C-PCB-111	M+2/M+4	1.63	1.32-1.78	y	103	75.0 - 125
13C-PCB-178	M+2/M+4	1.09	0.89-1.21	y	105	75.0 - 125

Analyst: [signature] Date: 8/2/19

FAL ID: ST080119Z2 Filename: 01AUG19Z Sam:16 Acquired: 1-AUG-19 22:01:41 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST07241 9Z1 EndCal: ST07241 9Z2
Results: 01AUG19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	7.20e+07	3.16 y	14:32	1.19	47.8		2.50	-	-	*	-
13C-PCB-1	1.26e+08	3.23 y	14:31	1.02	112		2.50				112
PCB-3	6.11e+07	3.07 y	16:58	1.18	46.6		2.50	-	-	*	-
13C-PCB-3	1.11e+08	3.20 y	16:57	0.97	104		2.50				104
PCB-4	4.56e+07	1.53 y	18:12	1.04	51.7		2.50	-	-	*	-
13C-PCB-4	8.43e+07	1.59 y	18:10	0.74	103		2.50				103
PCB-15	5.00e+07	1.59 y	23:44	1.03	51.3		2.50	-	-	*	-
13C-PCB-15	9.46e+07	1.59 y	23:42	0.96	88.6		2.50				88.6
PCB-19	3.64e+07	1.05 y	22:05	1.11	50.6		2.50	-	-	*	-
13C-PCB-19	6.48e+07	1.08 y	22:03	0.53	111		2.50				111
13C-PCB-9	1.11e+08	1.59 y	19:51	-	143		2.50				
PCB-37	3.62e+07	1.07 y	30:21	1.04	51.5		2.50	-	-	*	-
13C-PCB-37	6.78e+07	1.05 y	30:21	1.57	90.3		2.50				90.3
PCB-54	4.66e+07	0.81 y	25:37	1.16	51.8		2.50	-	-	*	-
13C-PCB-54	7.73e+07	0.82 y	25:36	1.38	117		2.50				117
PCB-104	3.27e+07	1.56 y	30:03	1.08	50.8		2.50	-	-	*	-
13C-PCB-104	5.96e+07	1.60 y	30:01	1.11	113		2.50				113
13C-PCB-28	8.15e+07	1.05 y	26:40	1.71	99.5		2.50				99.5
13C-PCB-52	4.79e+07	0.80 y	28:56	-	126		2.50				
PCB-81	3.04e+07	0.79 y	36:08	1.06	53.8		2.50	-	-	*	-
13C-PCB-81	5.31e+07	0.80 y	36:06	1.50	96.2		2.50				96.2
PCB-77	2.98e+07	0.79 y	36:42	1.02	54.1		2.50	-	-	*	-
13C-PCB-77	5.38e+07	0.80 y	36:40	1.57	93.4		2.50				93.4
PCB-155	2.65e+07	1.29 y	34:11	1.02	52.6		2.50	-	-	*	-
13C-PCB-155	4.92e+07	1.30 y	34:10	1.42	94.3		2.50				94.3
13C-PCB-111	4.87e+07	1.63 y	36:15	1.29	103		2.50				103
13C-PCB-101	3.68e+07	1.62 y	34:37	-	112		2.50				
PCB-123	2.68e+07	1.55 y	38:20	1.03	52.9		2.50	-	-	*	-
13C-PCB-123	4.90e+07	1.58 y	38:18	1.40	98.6		2.50				98.6
PCB-118	2.84e+07	1.59 y	38:29	1.02	52.2		2.50	-	-	*	-
13C-PCB-118	5.34e+07	1.59 y	38:28	1.53	97.8		2.50				97.8
PCB-114	2.67e+07	1.59 y	39:06	1.01	53.8		2.50	-	-	*	-
13C-PCB-114	4.90e+07	1.58 y	39:06	1.45	95.0		2.50				95.0
PCB-105	2.64e+07	1.61 y	39:55	1.02	51.7		2.50	-	-	*	-
13C-PCB-105	5.03e+07	1.60 y	39:55	1.44	98.1		2.50				98.1
PCB-126	2.48e+07	1.58 y	42:03	1.02	53.4		2.50	-	-	*	-
13C-PCB-126	4.57e+07	1.60 y	42:02	1.37	93.7		2.50				93.7
PCB-167	2.48e+07	1.26 y	43:24	1.07	52.0		2.50	-	-	*	-
13C-PCB-167	4.46e+07	1.29 y	43:22	1.28	97.6		2.50				97.6
PCB-156	2.52e+07	1.27 y	44:38	1.10	51.9		2.50	-	-	*	-
13C-PCB-156	4.42e+07	1.29 y	44:36	1.24	100		2.50				100
PCB-157	2.51e+07	1.26 y	44:53	1.06	49.7		2.50	-	-	*	-
13C-PCB-157	4.76e+07	1.29 y	44:51	1.34	100.0		2.50				100.0
PCB-169	2.57e+07	1.27 y	46:45	1.06	52.2		2.50	-	-	*	-
13C-PCB-169	4.64e+07	1.28 y	46:45	1.24	105		2.50				105
PCB-188	2.51e+07	1.05 y	39:42	1.02	53.4		2.50	-	-	*	-
13C-PCB-188	4.63e+07	1.07 y	39:40	1.29	101		2.50				101
PCB-189	2.37e+07	1.07 y	48:25	0.99	51.8		2.50	-	-	*	-
13C-PCB-189	4.60e+07	1.06 y	48:24	1.07	121		2.50				121
PCB-202	2.19e+07	0.92 y	44:48	0.99	51.3		2.50	-	-	*	-
13C-PCB-202	4.32e+07	0.91 y	44:46	1.09	112		2.50				112
13C-PCB-178	3.03e+07	1.09 y	42:18	0.81	105		2.50				105
13C-PCB-138	3.56e+07	1.30 y	41:32	-	111		2.50				

FAL ID: ST08011922 Filename: 01AUG19Z Sam:16 Acquired: 1-AUG-19 22:01:41 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 01AUG19Z GC Column: DB1MS Amount: 1.000

PCB-205	2.83e+07	0.91	y	50:05	1.02	54.1	2.50	-	-	*	-
13C-PCB-205	5.11e+07	0.89	y	50:03	1.40	96.5	2.50				96.5
PCB-208	2.75e+07	1.38	y	49:08	0.98	51.5	2.50	-	-	*	-
13C-PCB-208	5.47e+07	0.79	y	49:08	1.36	106	2.50				106
PCB-206	2.02e+07	1.37	y	51:17	0.99	52.1	2.50	-	-	*	-
13C-PCB-206	3.90e+07	0.80	y	51:15	1.01	102	2.50				102
PCB-209	2.73e+07	1.19	y	52:28	1.09	50.9	2.50	-	-	*	-
13C-PCB-209	4.92e+07	1.20	y	52:27	1.21	107	2.50				107
13C-PCB-194	3.78e+07	0.91	y	49:48	-	123	2.50				

Analyst: [illegible] Date: 8/2/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:01AUG19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
01AUG19Z	1	ST080119Z1	1668 CS3 R181204D	1-AUG-19 07:26:00	ST080119Z1	ST080119Z2	BS
01AUG19Z	2	SS080119Z1	Daily 209 190408A	1-AUG-19 08:24:20	ST080119Z1	ST080119Z2	BS
01AUG19Z	3	12510-011-0001-SA	LDW-Y2-SU-ENR-CC-S010	1-AUG-19 09:22:41	ST080119Z1	ST080119Z2	BS
01AUG19Z	4	12510-012-0001-SA	LDW-Y2-SU-ENR-CD-S010	1-AUG-19 10:21:02	ST080119Z1	ST080119Z2	BS
01AUG19Z	5	12510-013-0001-SA	LDW-Y2-SU-ENR-CE-S010	1-AUG-19 11:19:23	ST080119Z1	ST080119Z2	BS
01AUG19Z	6	12510-014-0001-SA	LDW-Y2-SU-S010-LCB * BAD INJ	1-AUG-19 12:17:44	ST080119Z1	ST080119Z2	BS
01AUG19Z	7	12510-015-0001-SA	LDW-Y2-IN-ENR+AC-CA-S010 * BAD INJ	1-AUG-19 13:16:05	ST080119Z1	ST080119Z2	BS
01AUG19Z	8	04991-001-0001-OPR	OPR	1-AUG-19 14:14:27	ST080119Z1	ST080119Z2	BS
01AUG19Z	9	04991-001-0001-MB	Method Blank	1-AUG-19 15:12:48	ST080119Z1	ST080119Z2	BS
01AUG19Z	10	12536-001-0001-SA	Effluent	1-AUG-19 16:11:09	ST080119Z1	ST080119Z2	BS
01AUG19Z	11	12556-001-0001-SA	201907230157	1-AUG-19 17:09:30	ST080119Z1	ST080119Z2	BS
01AUG19Z	12	12566-001-0001-SA	EBMUD-001 (Post GAC Recirc)	1-AUG-19 18:07:52	ST080119Z1	ST080119Z2	BS
01AUG19Z	13	12566-002-0001-SA	MF-001 (Pre GAC)	1-AUG-19 19:06:35	ST080119Z1	ST080119Z2	BS
01AUG19Z	14	12567-001-0001-SA	MG-001 (MG Tank)	1-AUG-19 20:04:56	ST080119Z1	ST080119Z2	BS
01AUG19Z	15	SB080119Z1	Solvent Blank	1-AUG-19 21:03:17	ST080119Z1	ST080119Z2	BS
01AUG19Z	16	ST080119Z2	1668 CS3 R181204D	1-AUG-19 22:01:41	ST080119Z1	ST080119Z2	BS

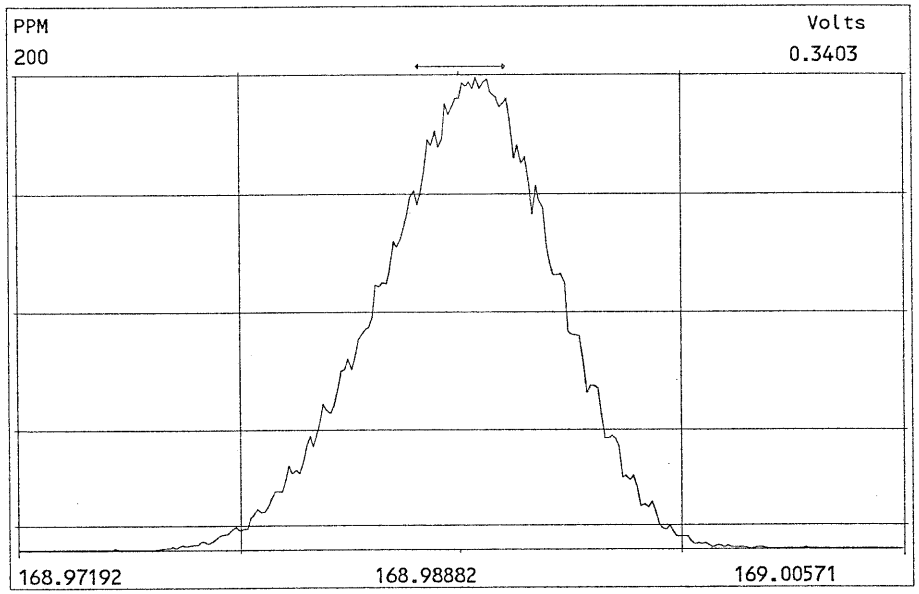
8/2/19

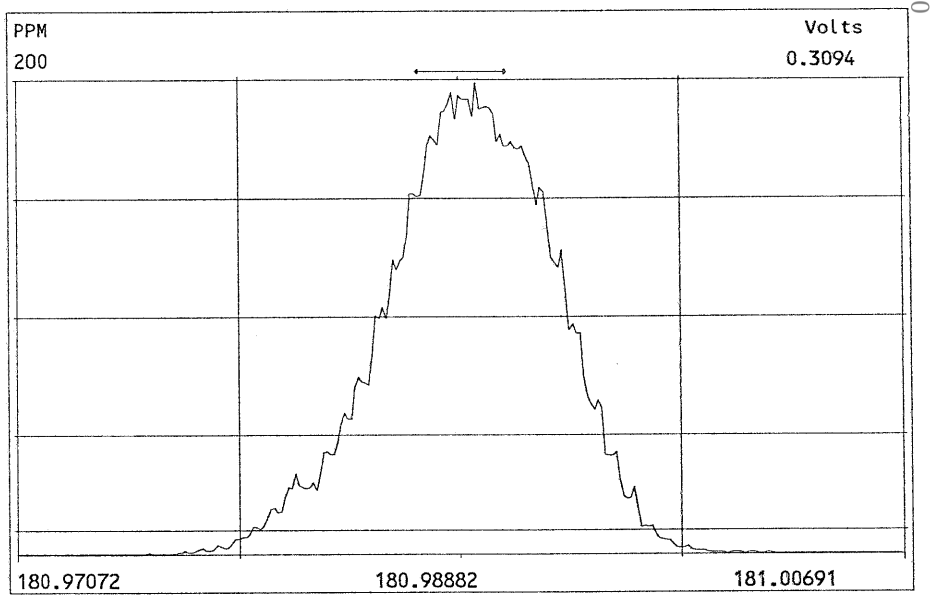
* BAD INJ
Re-inject on 02AUG19Z

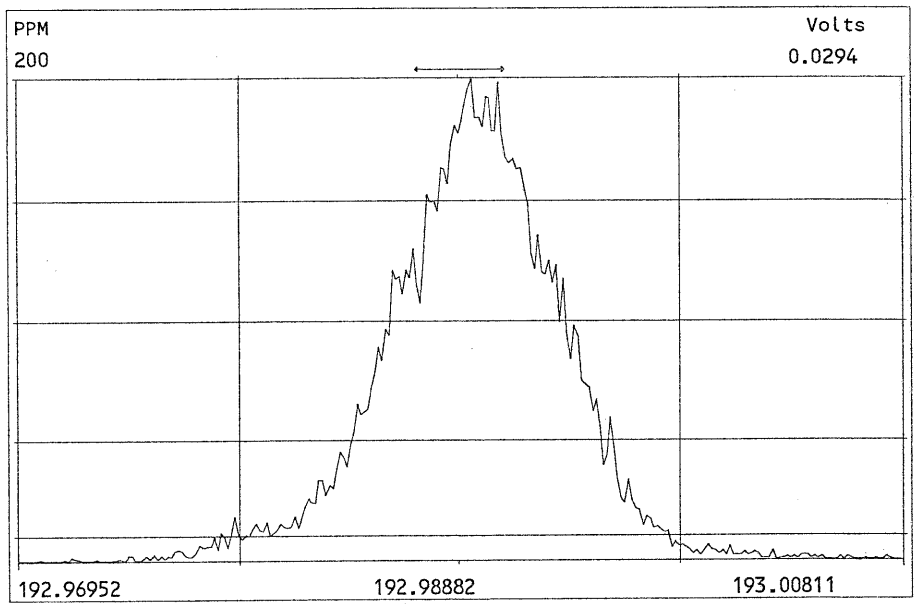
Data Backed Up:_____

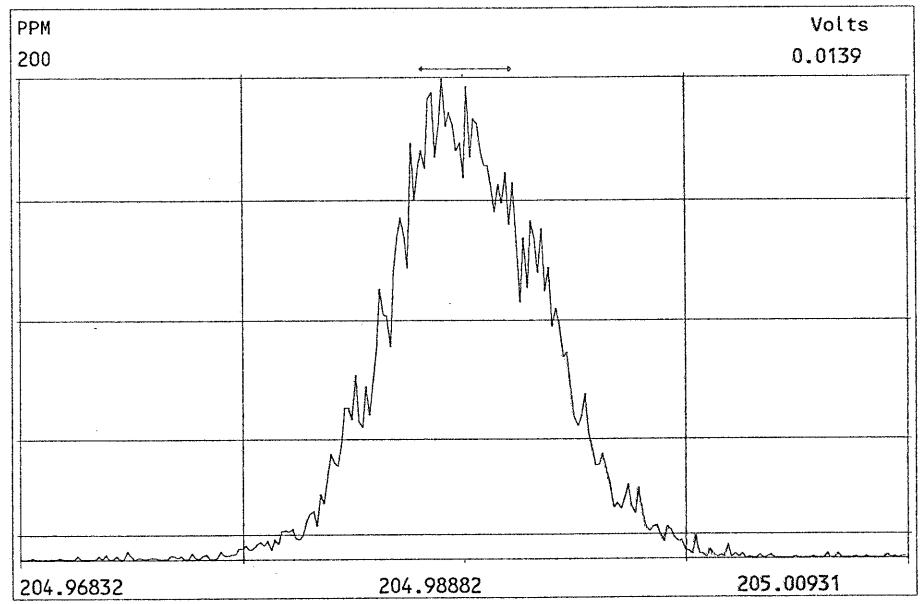
Date:_____

Peak Locate Examination: 1-AUG-2019:07:23 File:01AUG19Z
Experiment:1668PCB Function:1 Reference:PFK

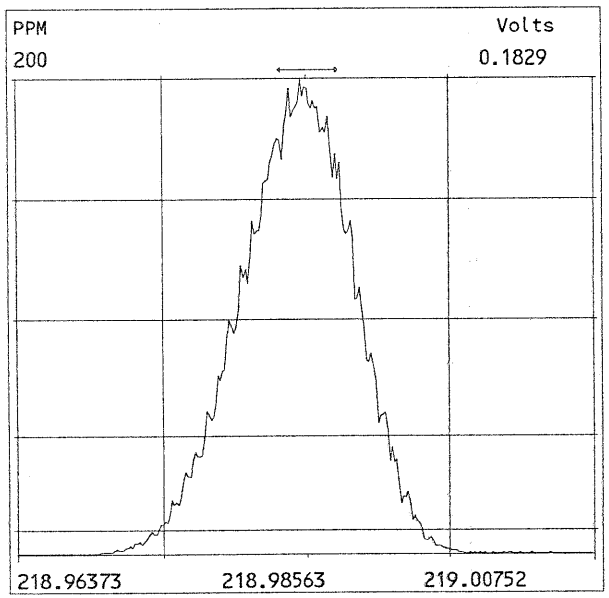


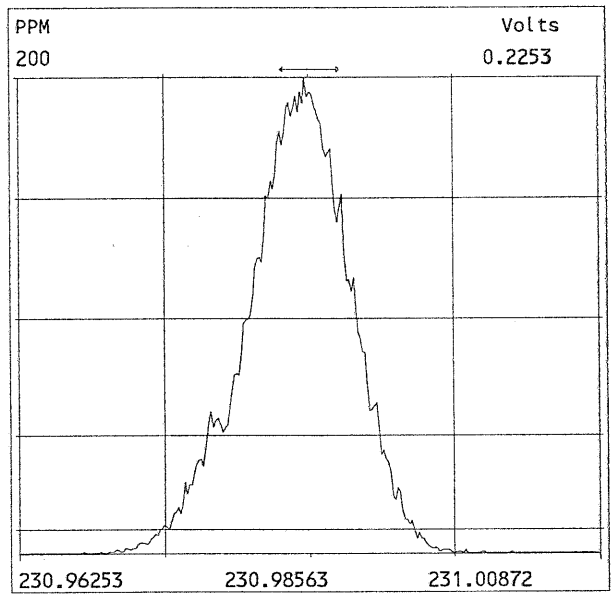


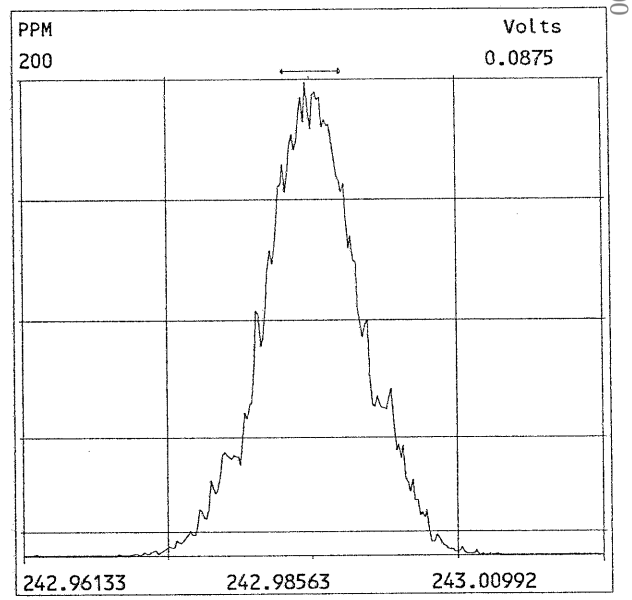


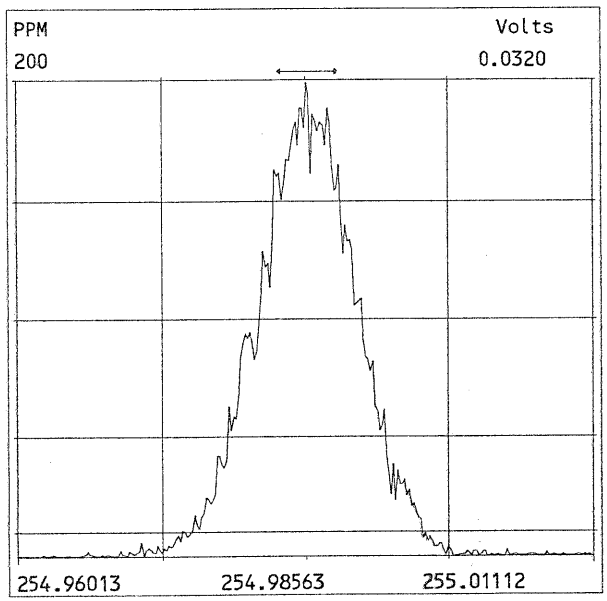


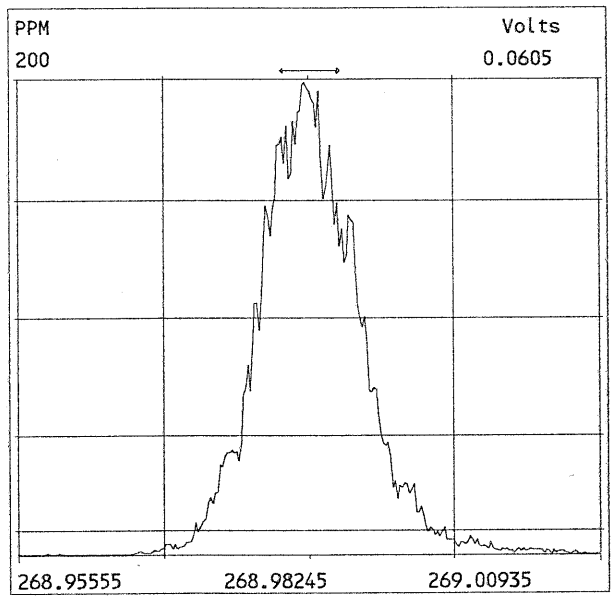
Peak Locate Examination: 1-AUG-2019:07:23 File:01AUG19Z
Experiment:1668PCB Function:2 Reference:PFK

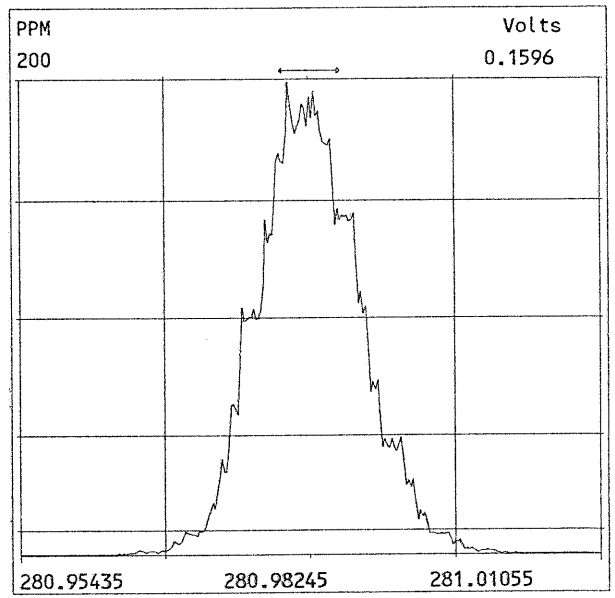




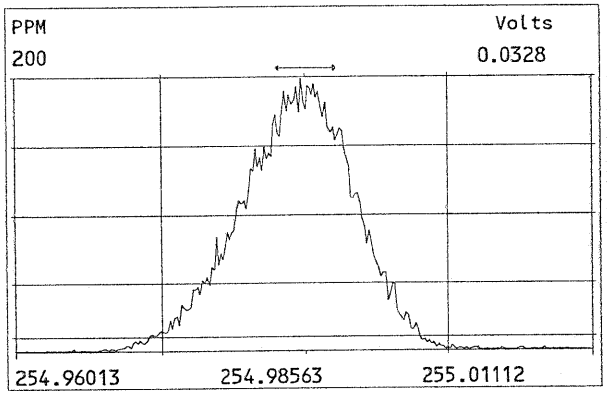


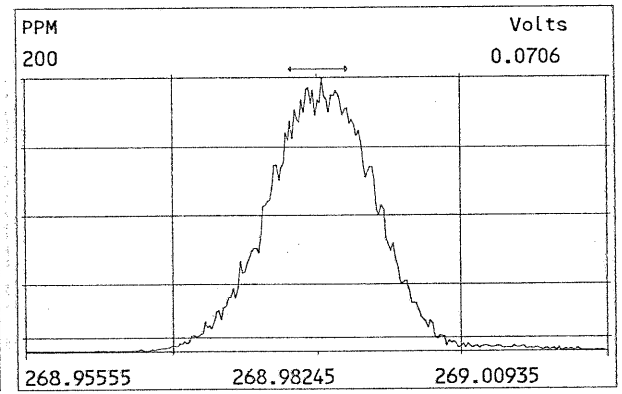


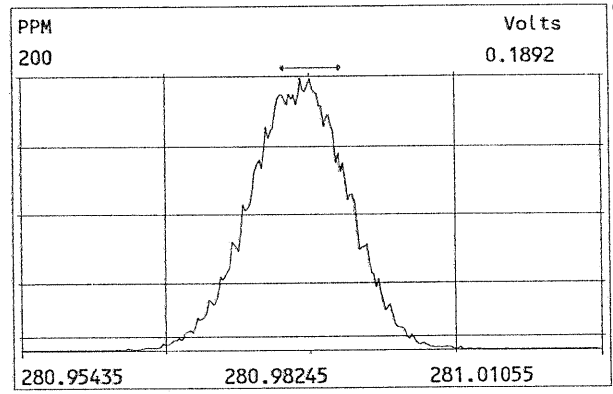


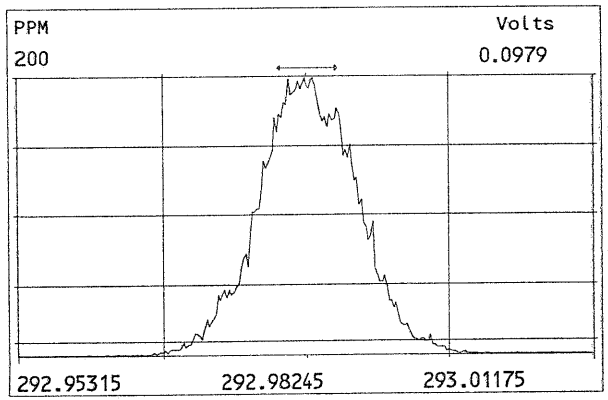


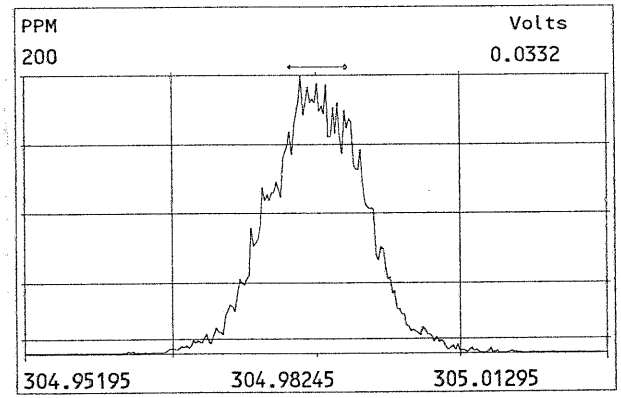
Peak Locate Examination: 1-AUG-2019:07:24 File:01AUG19Z
Experiment:1668PCB Function:3 Reference:PFK

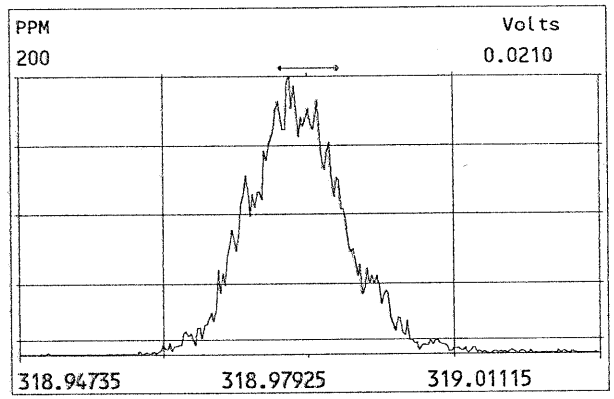


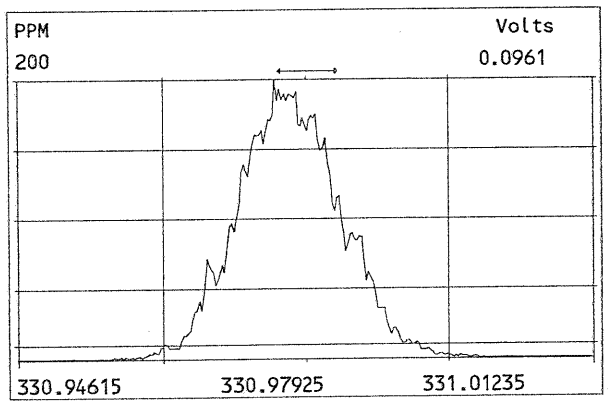


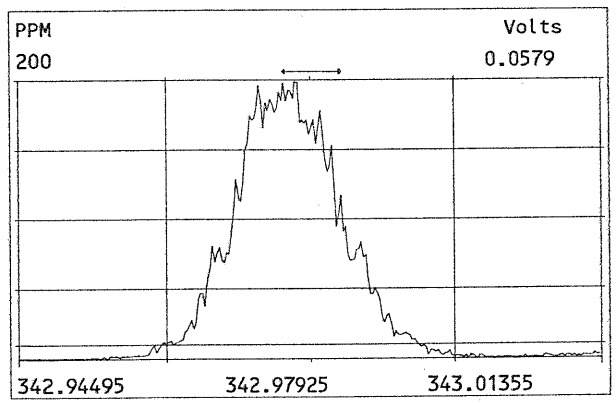




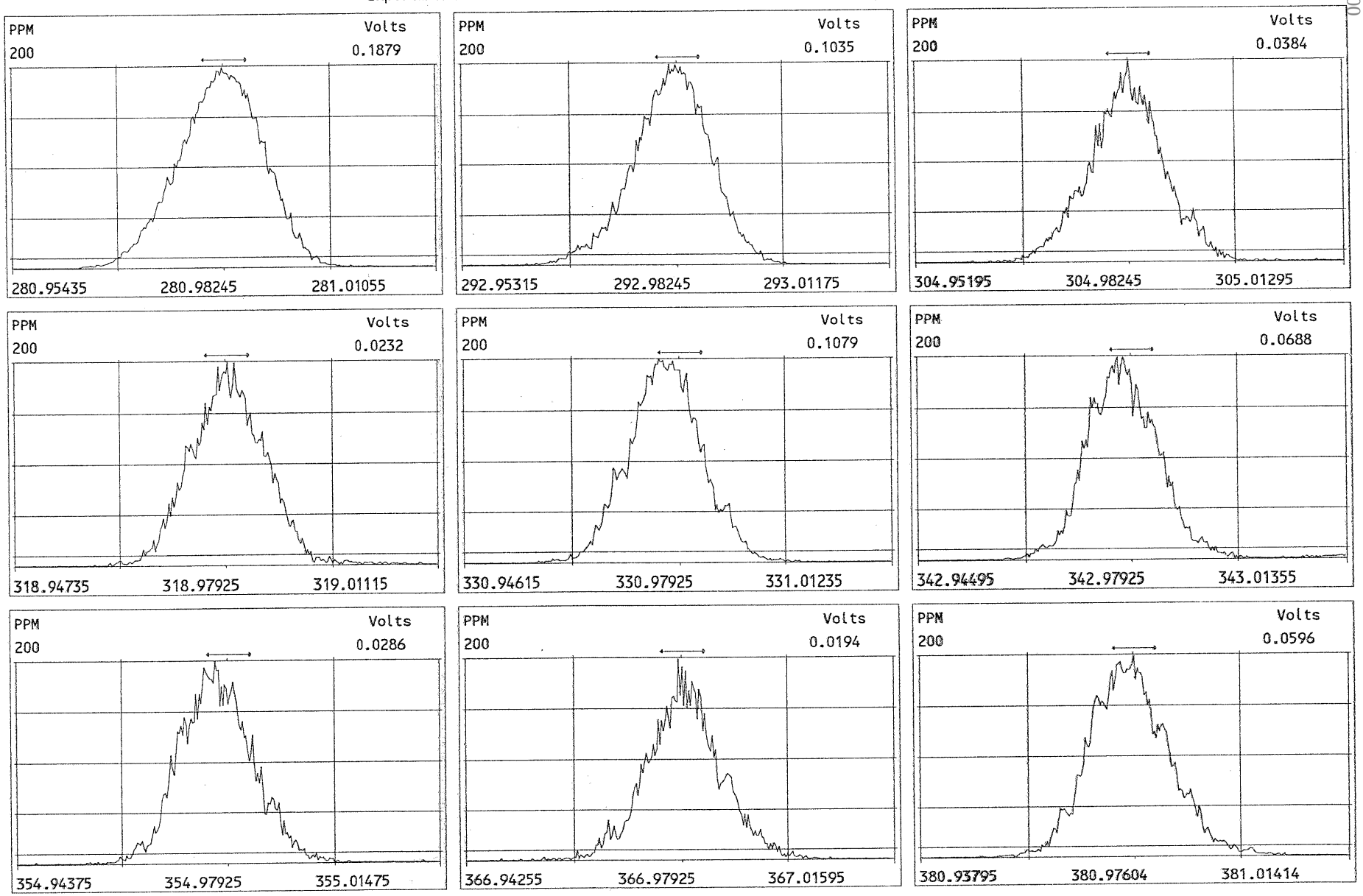




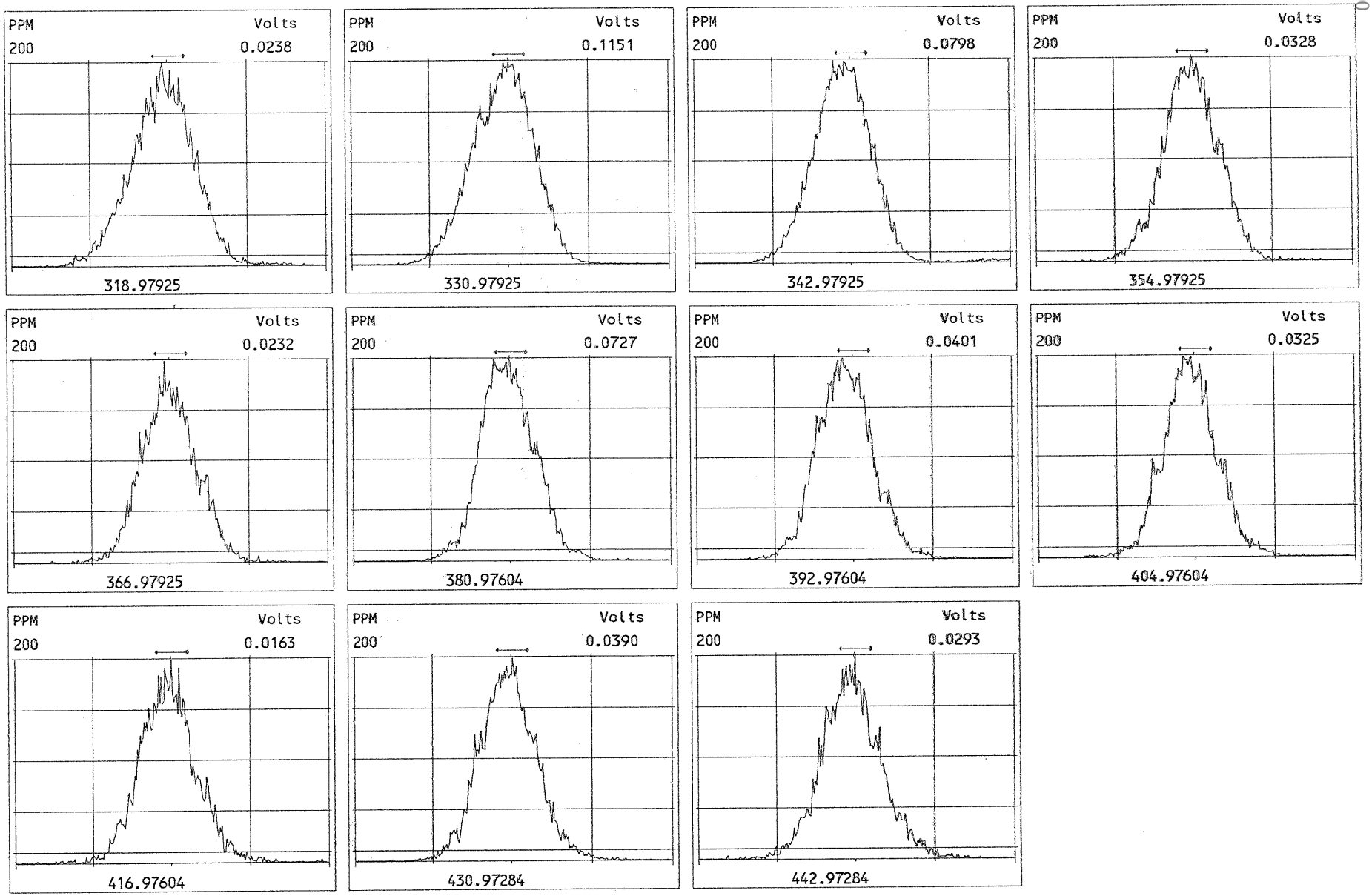




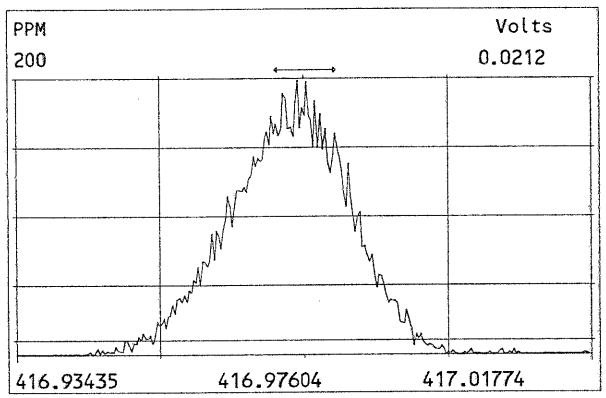
Peak Locate Examination: 1-AUG-2019:07:24 File:01AUG19Z
Experiment:1668PCB Function:4 Reference:PFK

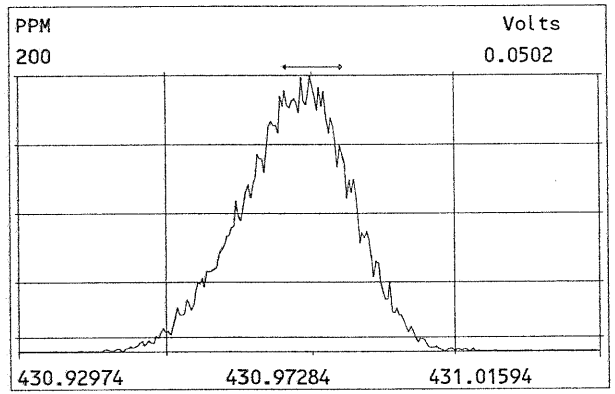


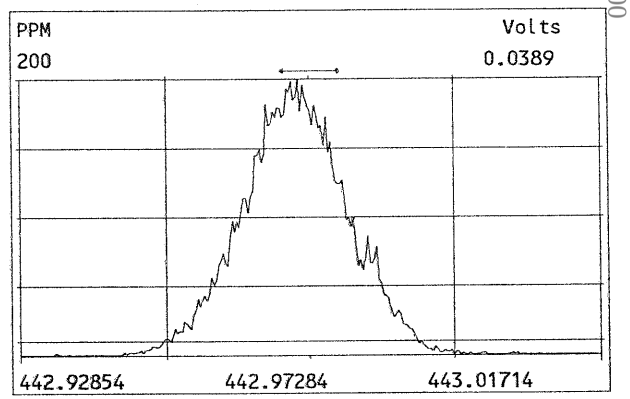
Peak Locate Examination: 1-AUG-2019:07:25 File:01AUG19Z
Experiment:1668PCB Function:5 Reference:PFK

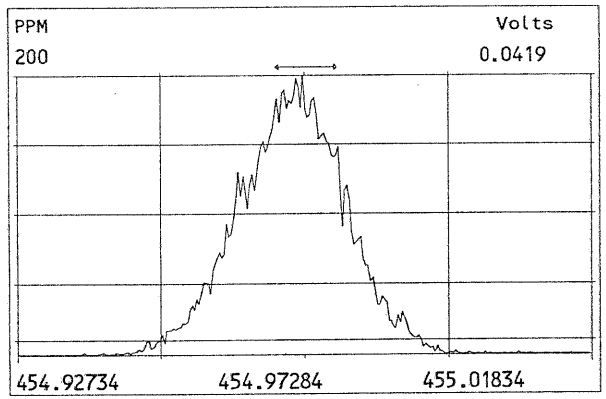


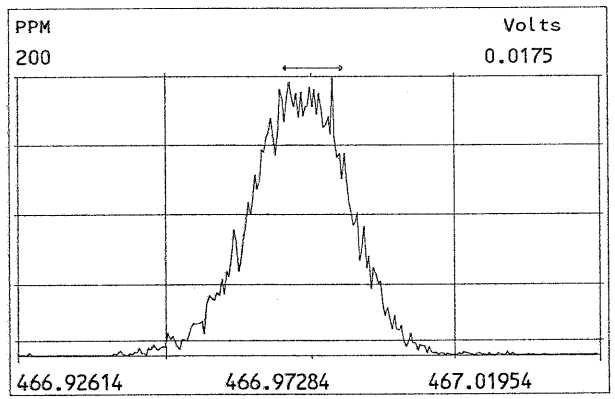
Peak Locate Examination: 1-AUG-2019:07:25 File:01AUG19Z
Experiment:1668PCB Function:6 Reference:PFK

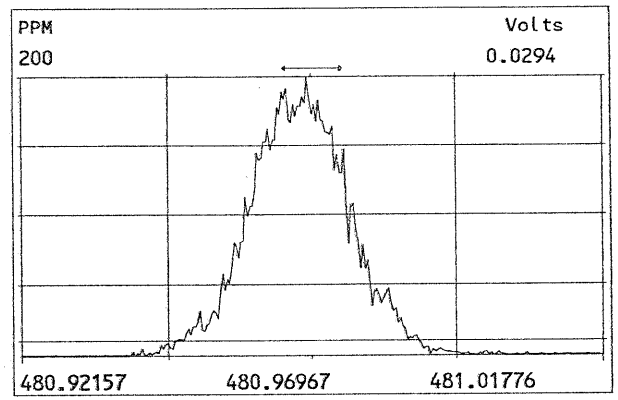


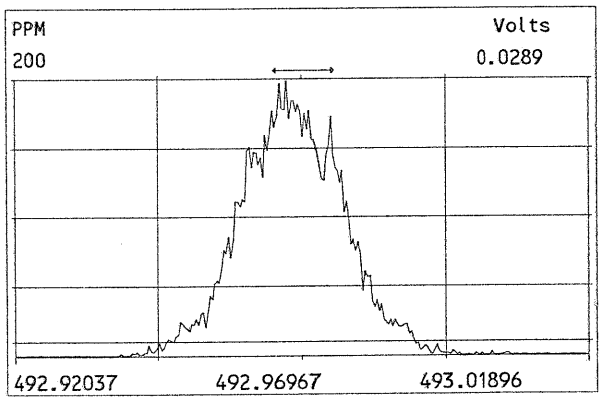


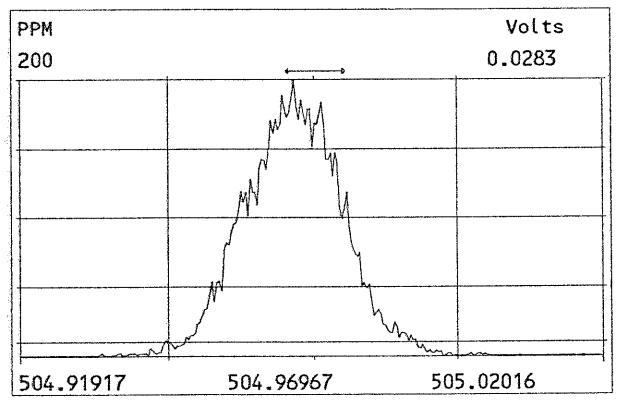


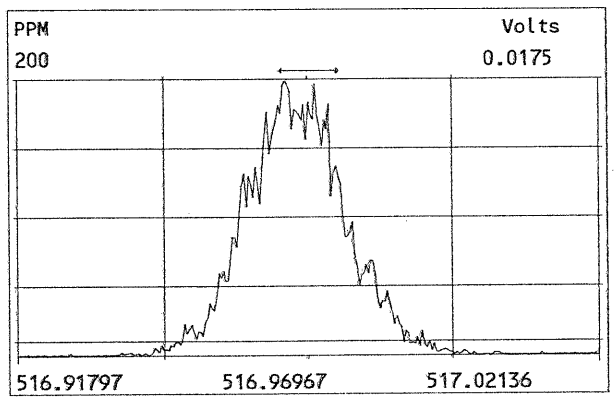




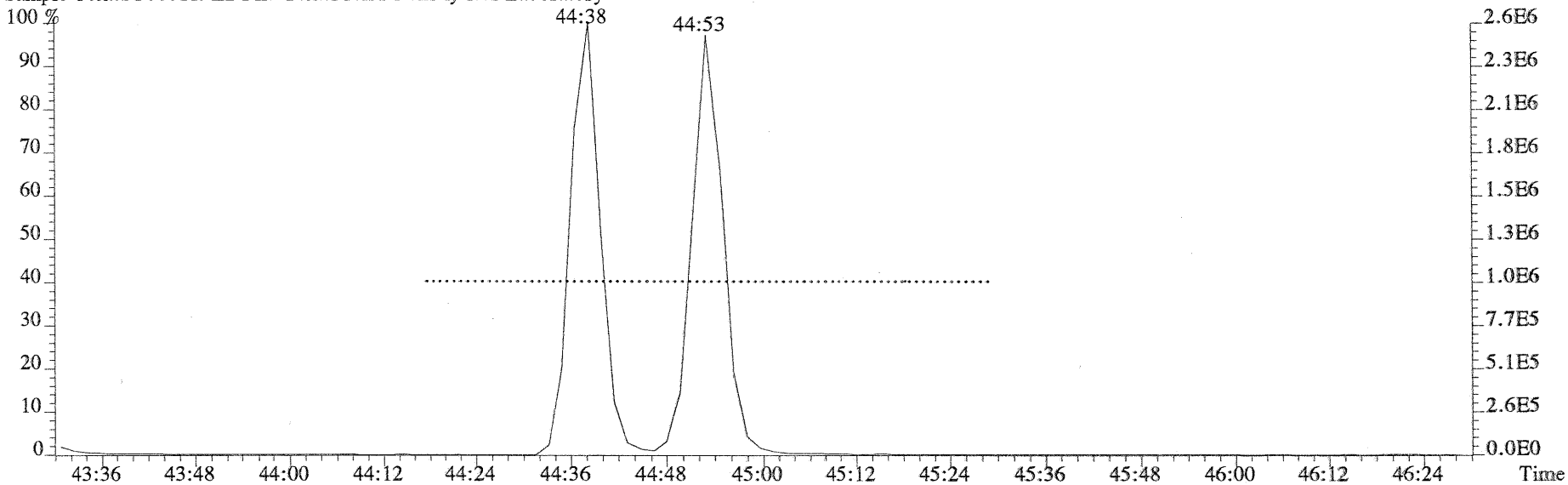




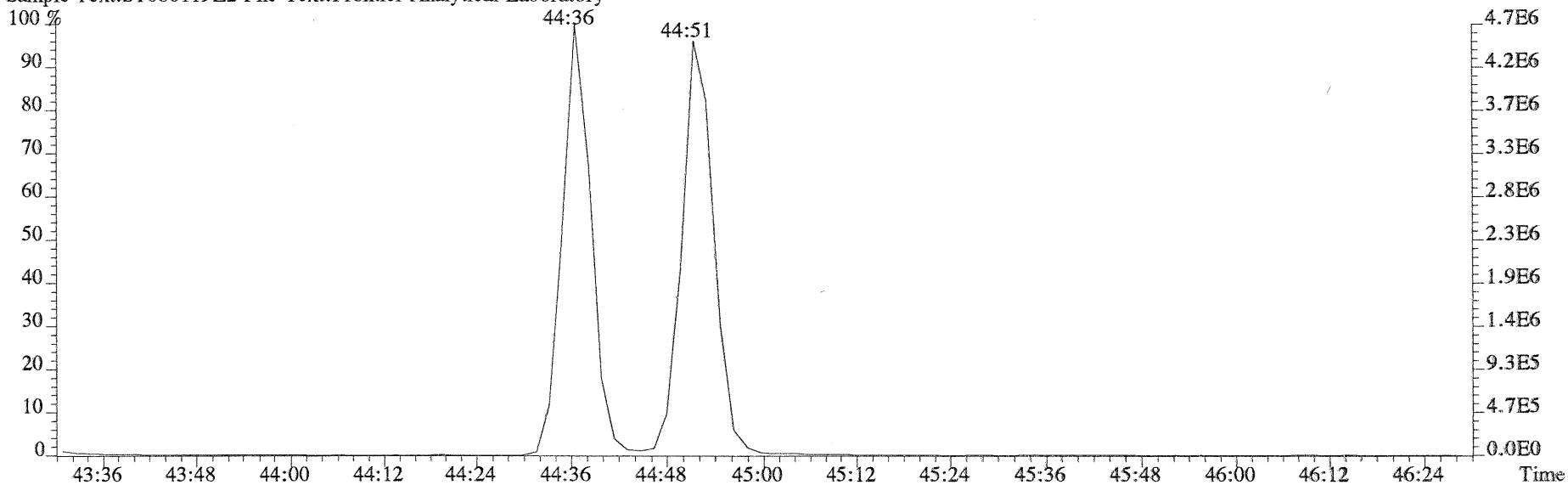




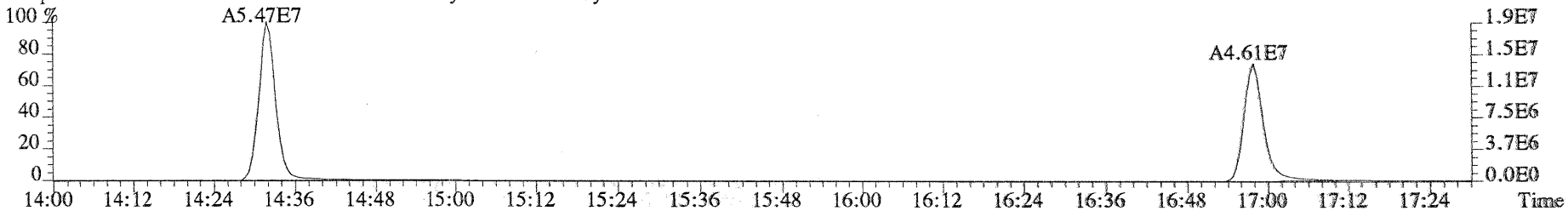
File:01AUG19Z #1-406 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



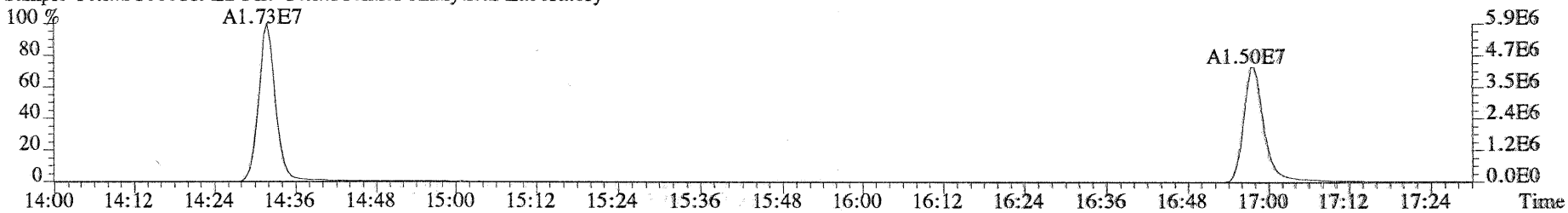
File:01AUG19Z #1-406 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



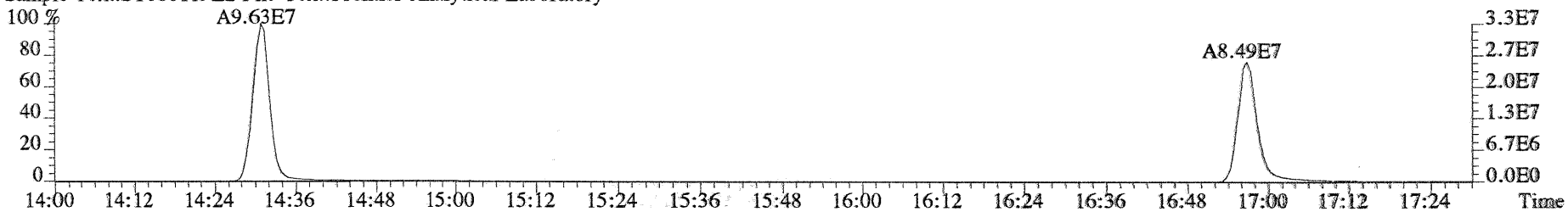
File:01AUG19Z #1-783 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



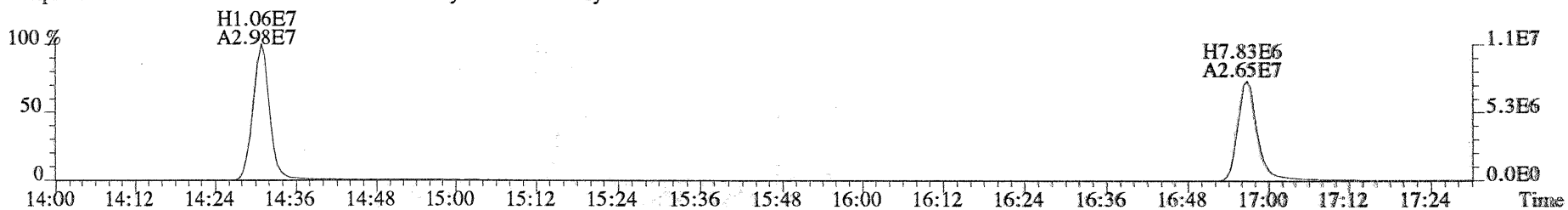
File:01AUG19Z #1-783 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



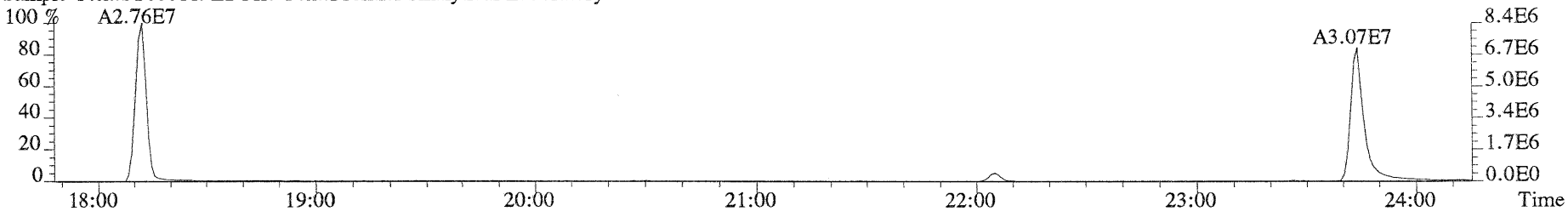
File:01AUG19Z #1-783 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



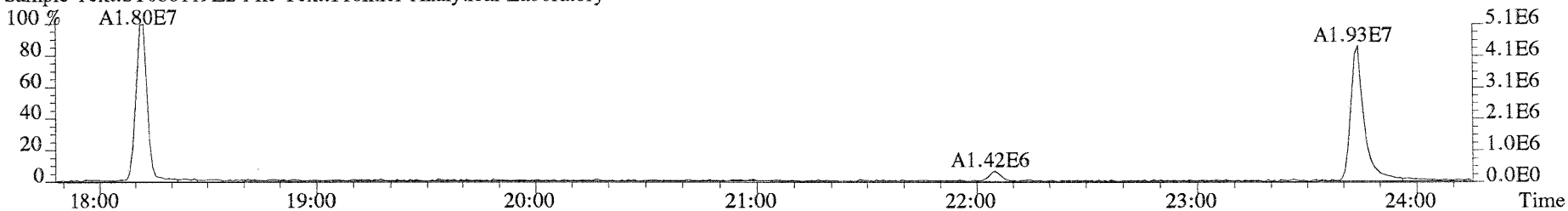
File:01AUG19Z #1-783 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



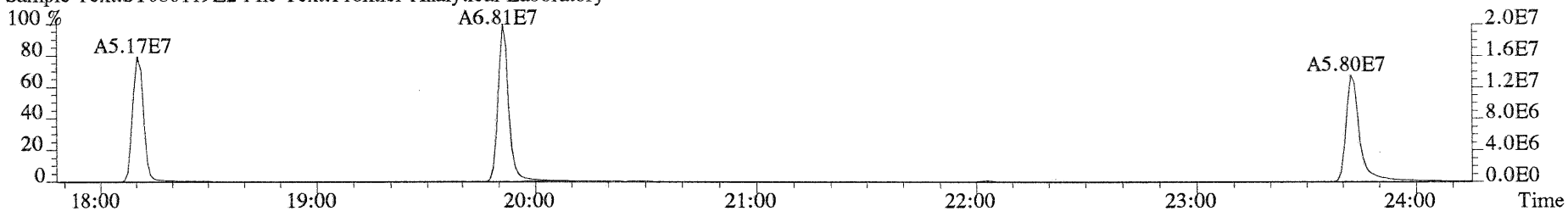
File:01AUG19Z #1-521 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



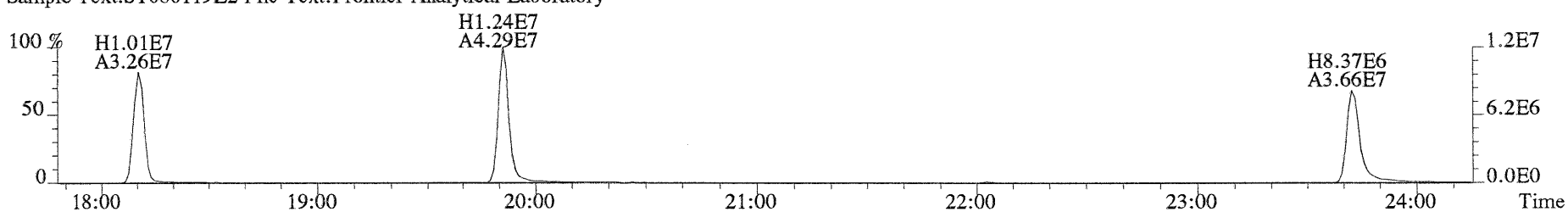
File:01AUG19Z #1-521 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



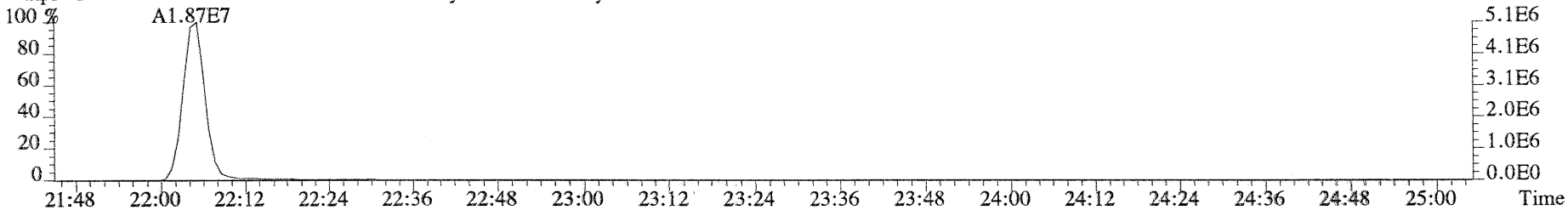
File:01AUG19Z #1-521 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



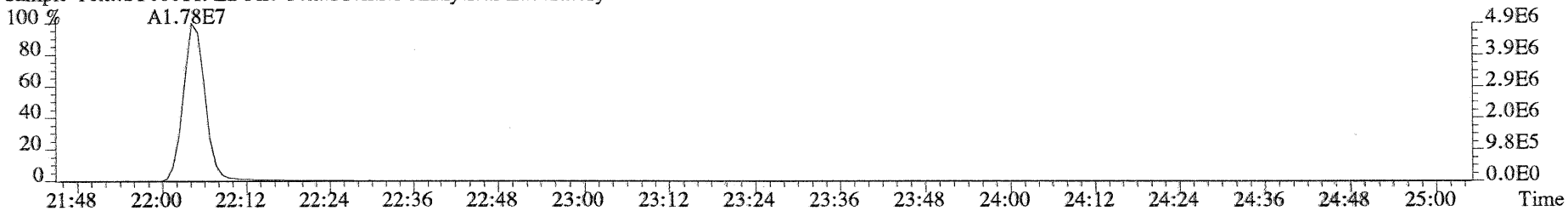
File:01AUG19Z #1-521 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



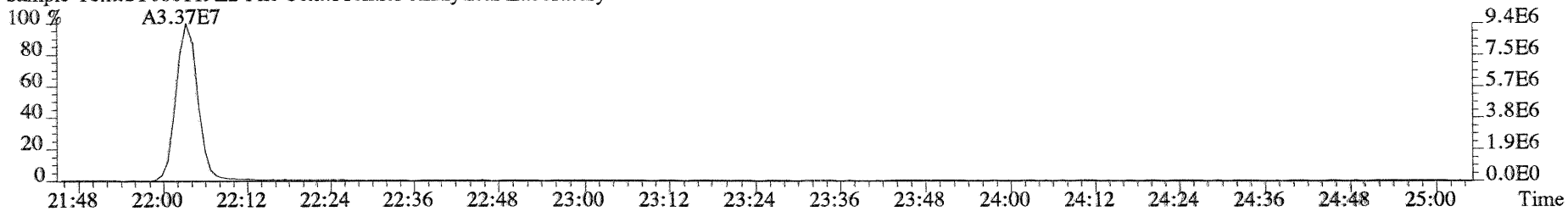
File:01AUG19Z #1-521 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



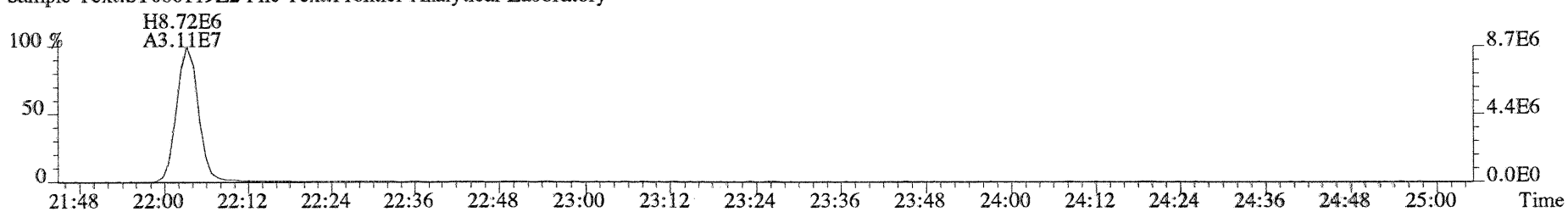
File:01AUG19Z #1-521 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



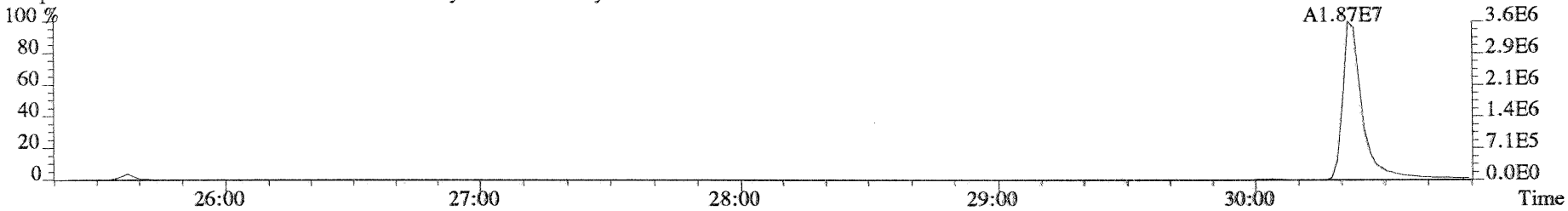
File:01AUG19Z #1-521 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



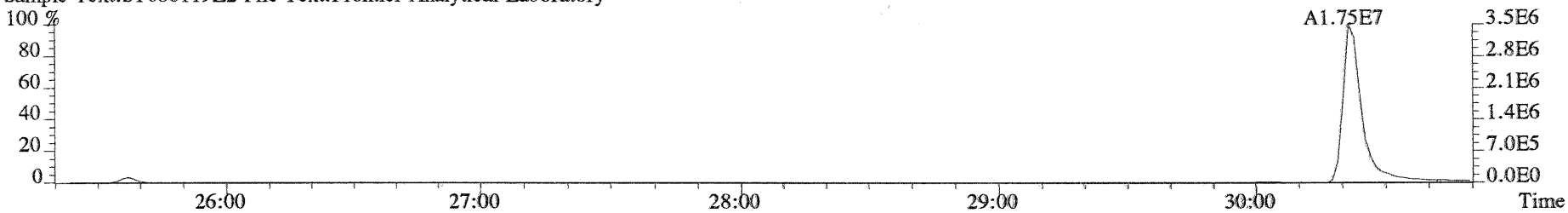
File:01AUG19Z #1-521 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



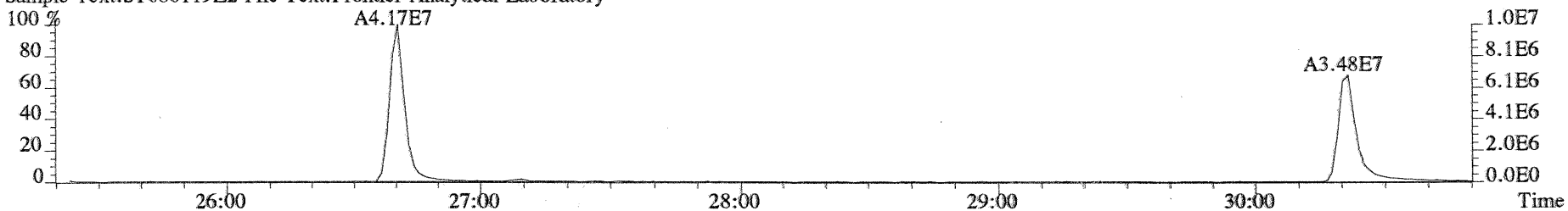
File:01AUG19Z #1-401 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



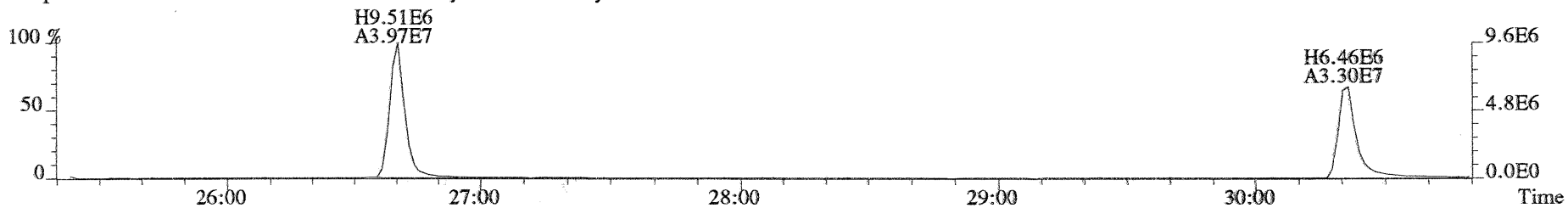
File:01AUG19Z #1-401 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



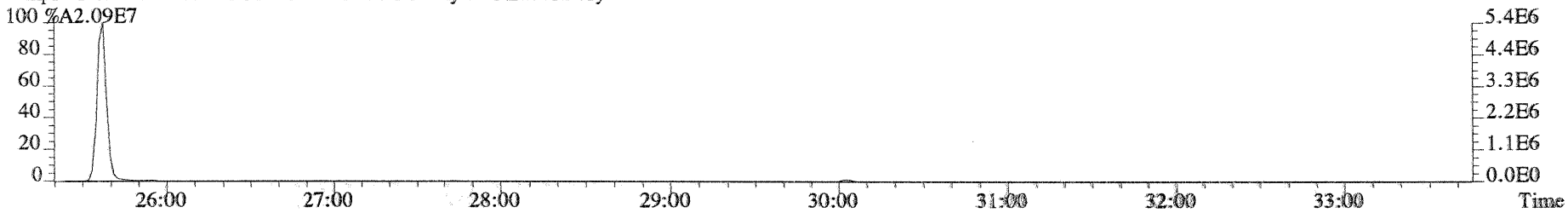
File:01AUG19Z #1-401 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-401 Acq: 1-AUG-2019 22:01:41 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:ST080119Z2 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-401 Acq: 1-AUG-2019 22:01:41 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:ST080119Z2 File Text:Frontier Analytical Laboratory



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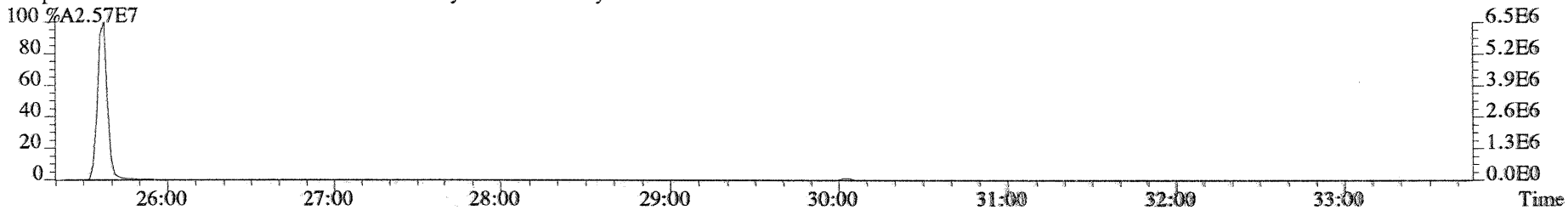
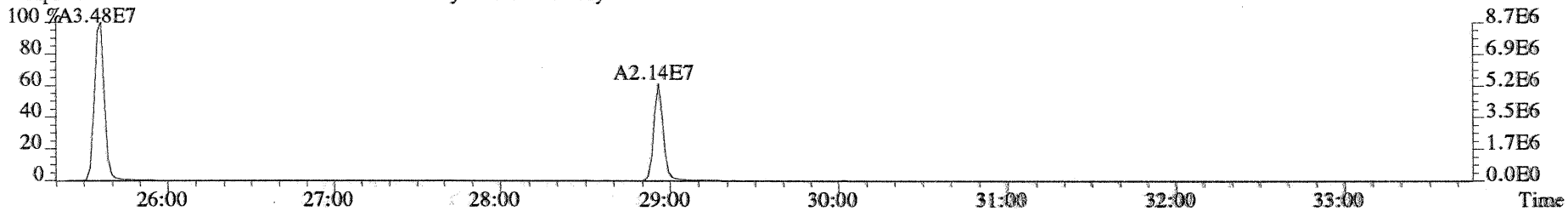
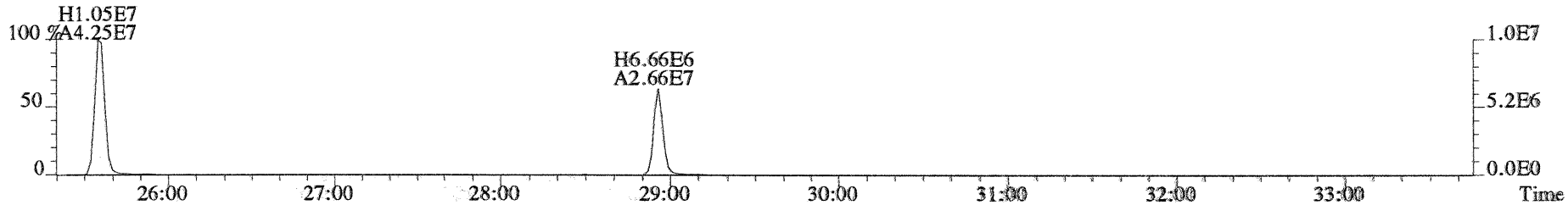
291.9194 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



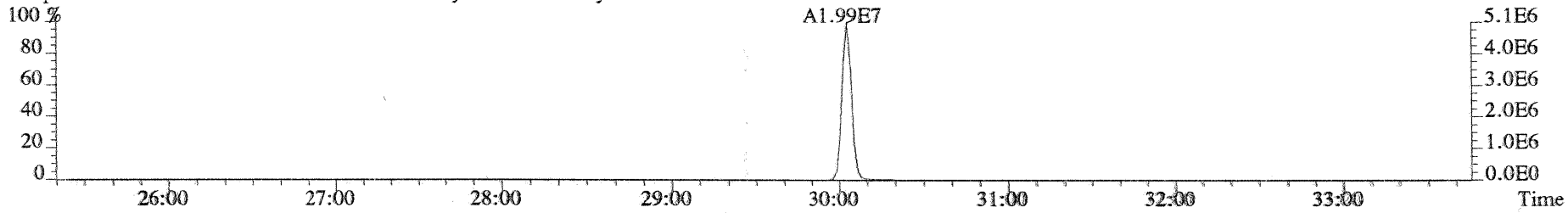
File:01AUG19Z #1-401 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-401 Acq: 1-AUG-2019 22:01:41 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:ST080119Z2 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-401 Acq: 1-AUG-2019 22:01:41 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:ST080119Z2 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-401 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
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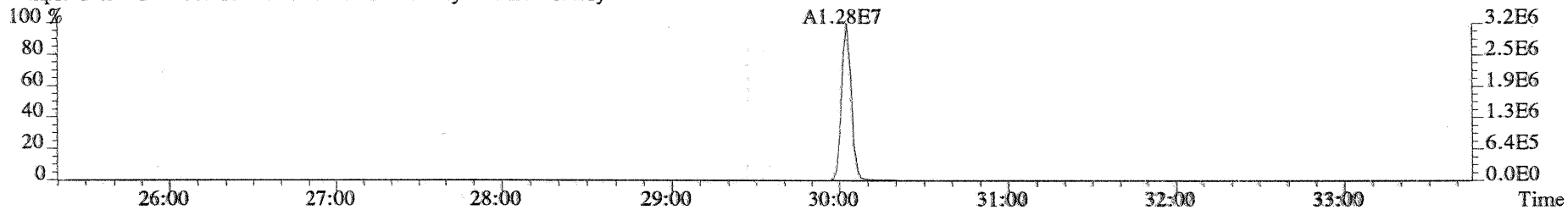
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



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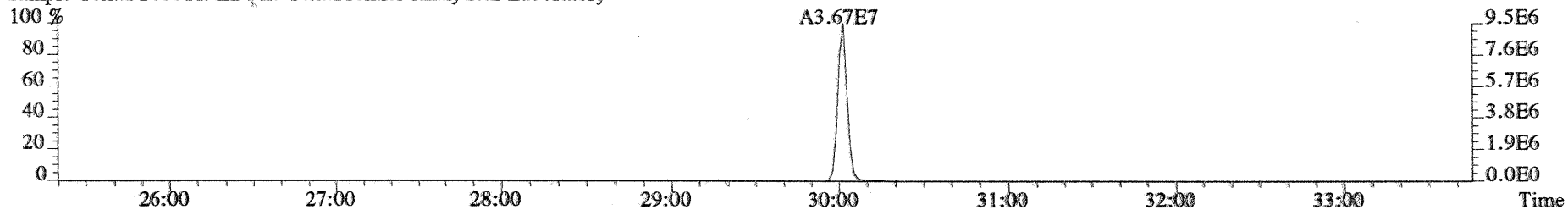
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



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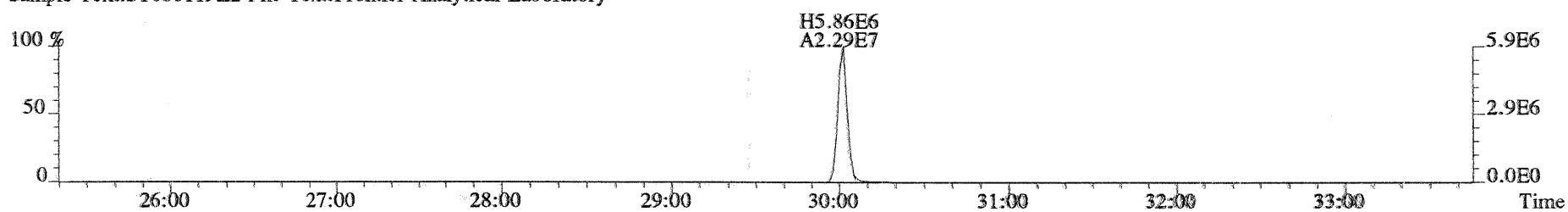
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



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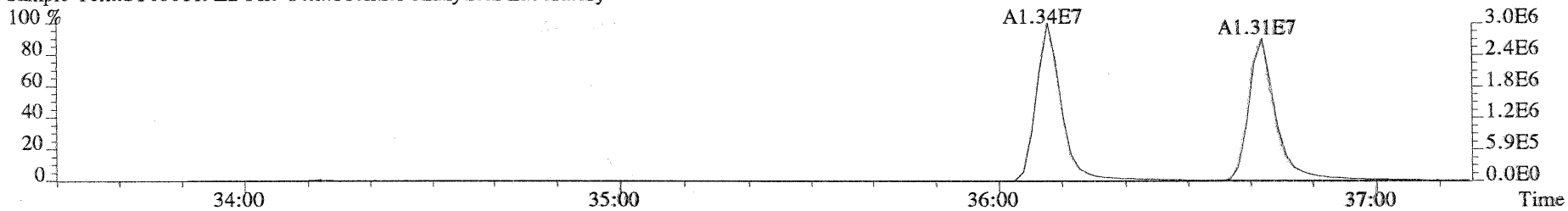
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



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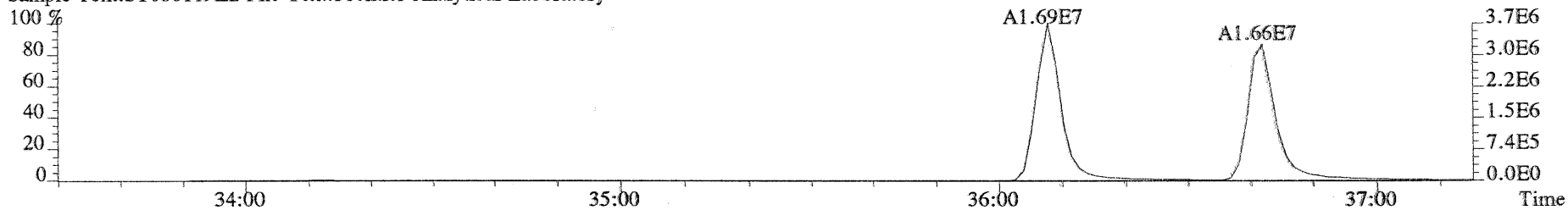
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



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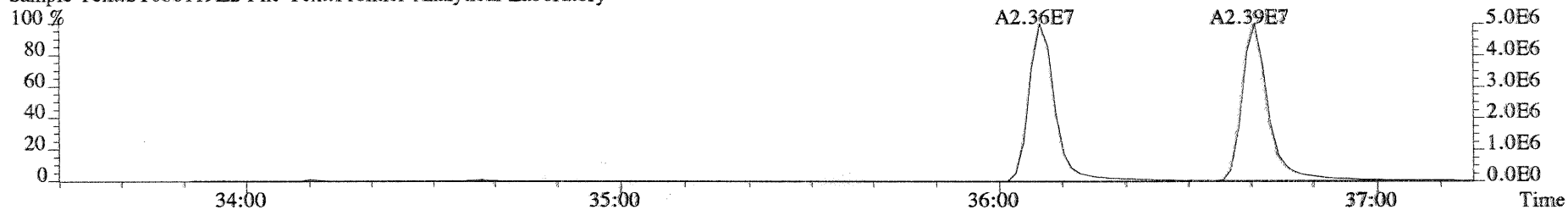
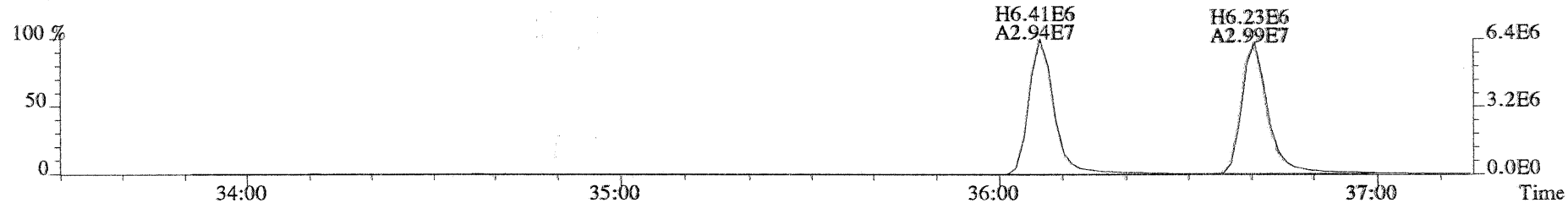
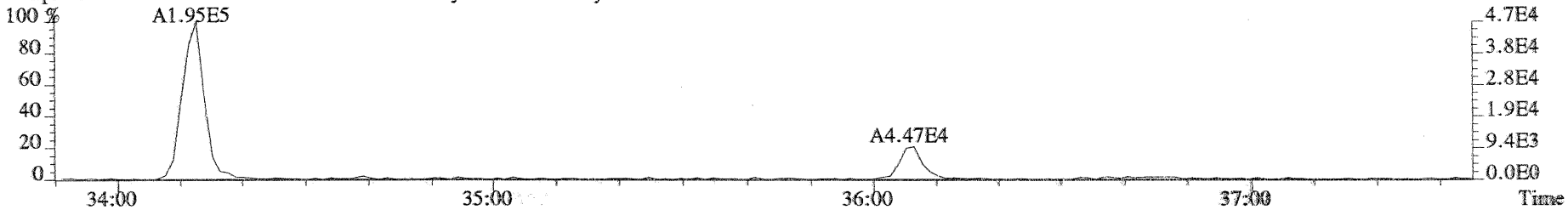
301.9626 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



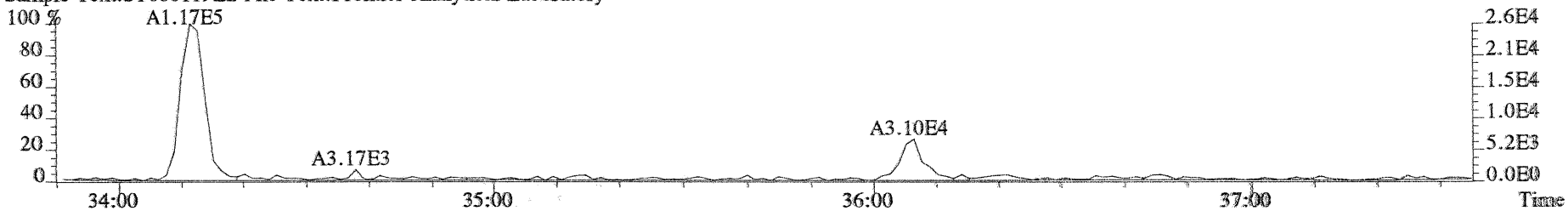
File:01AUG19Z #1-180 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



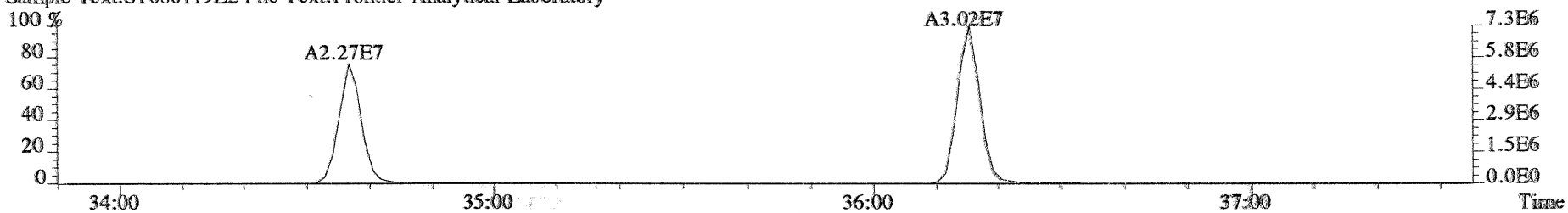
File:01AUG19Z #1-180 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-180 Acq: 1-AUG-2019 22:01:41 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:ST080119Z2 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-180 Acq: 1-AUG-2019 22:01:41 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:ST080119Z2 File Text:Frontier Analytical Laboratory



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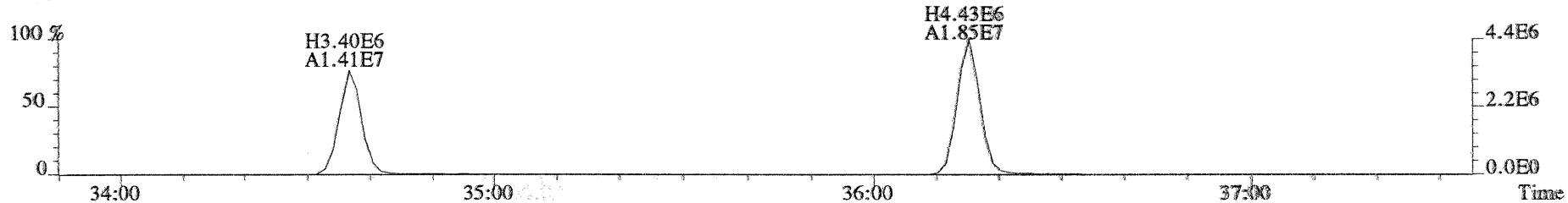
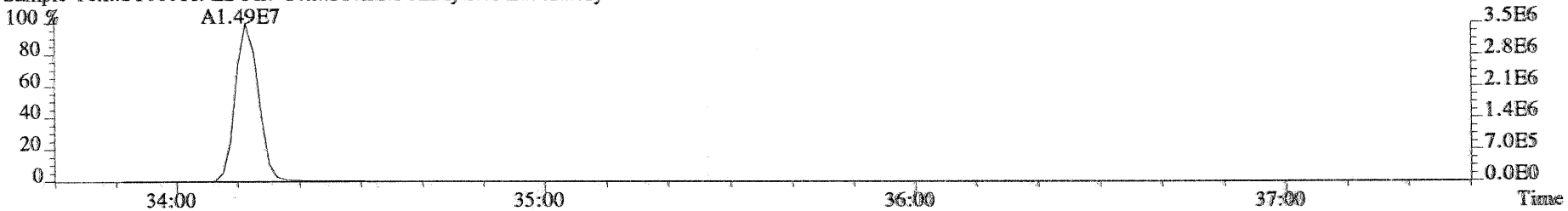
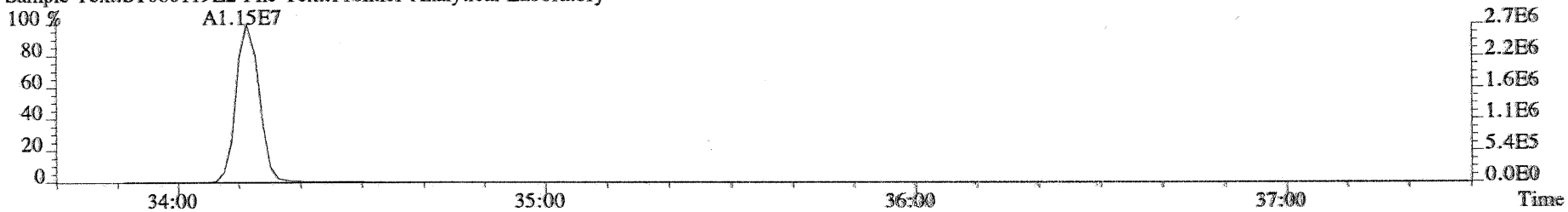
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



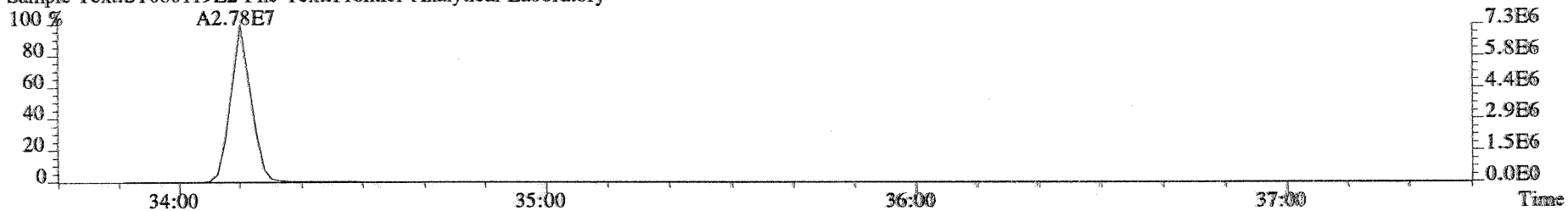
File:01AUG19Z #1-180 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



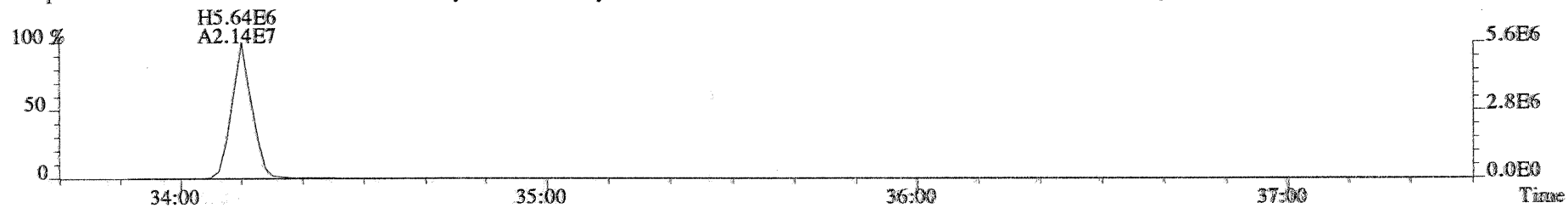
File:01AUG19Z #1-180 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



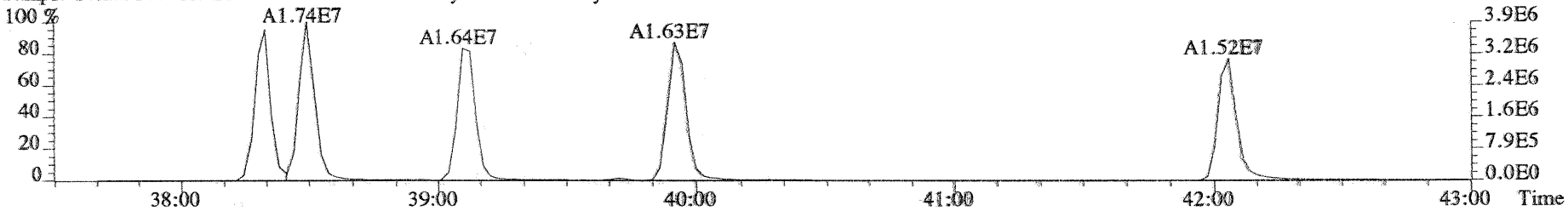
File:01AUG19Z #1-180 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



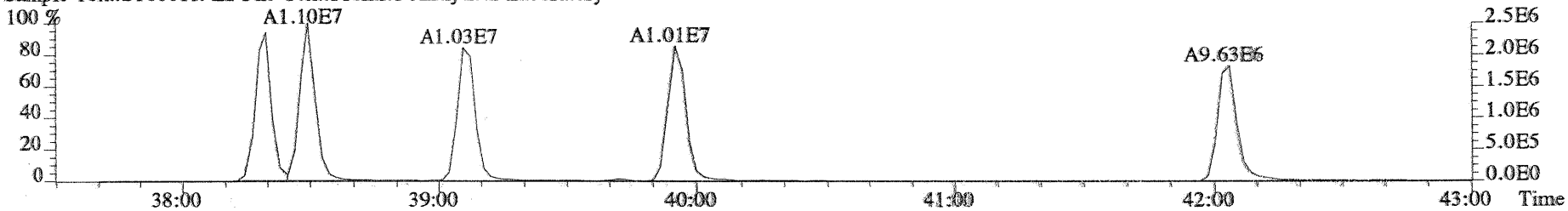
File:01AUG19Z #1-180 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



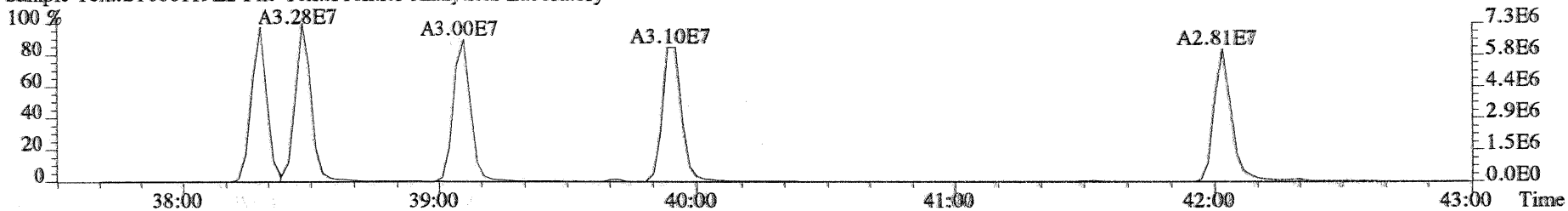
File:01AUG19Z #1-406 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-406 Acq: 1-AUG-2019 22:01:41 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:ST080119Z2 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-406 Acq: 1-AUG-2019 22:01:41 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:ST080119Z2 File Text:Frontier Analytical Laboratory



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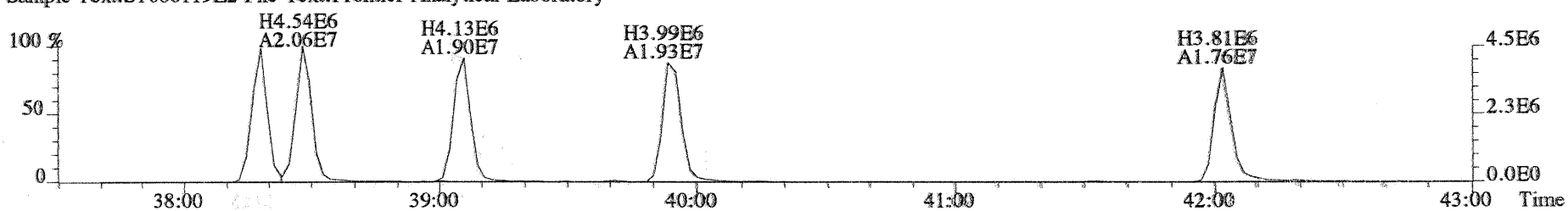
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



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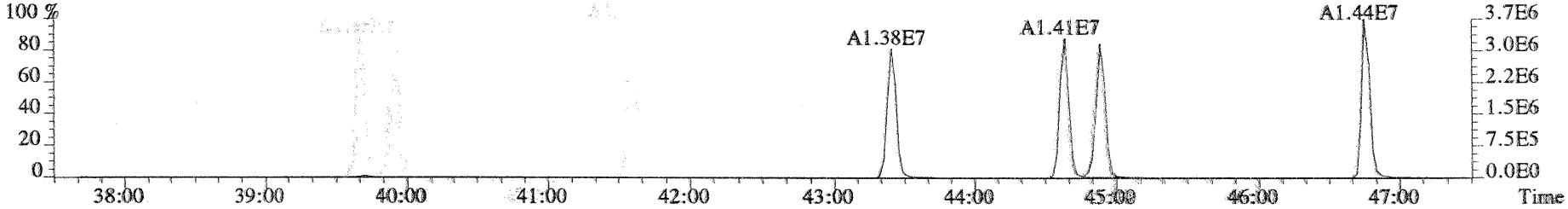
359.8415 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



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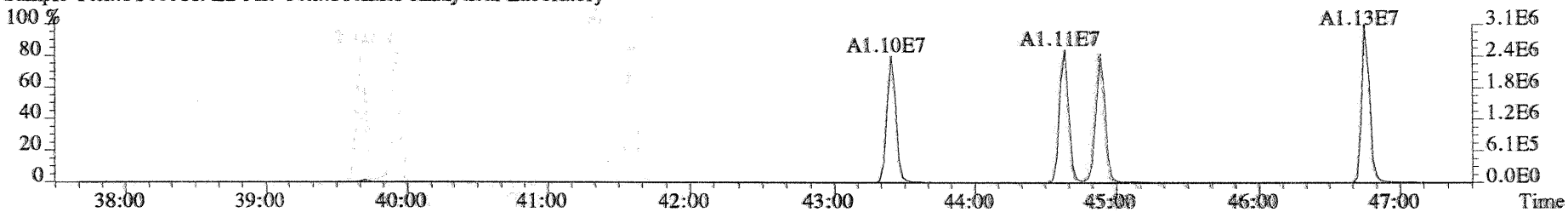
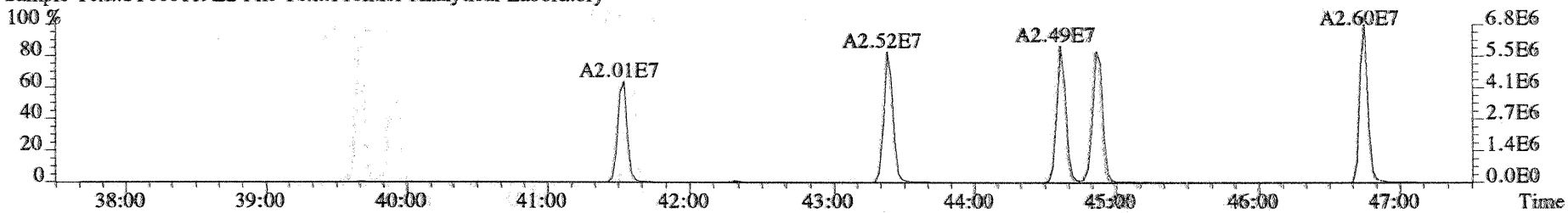
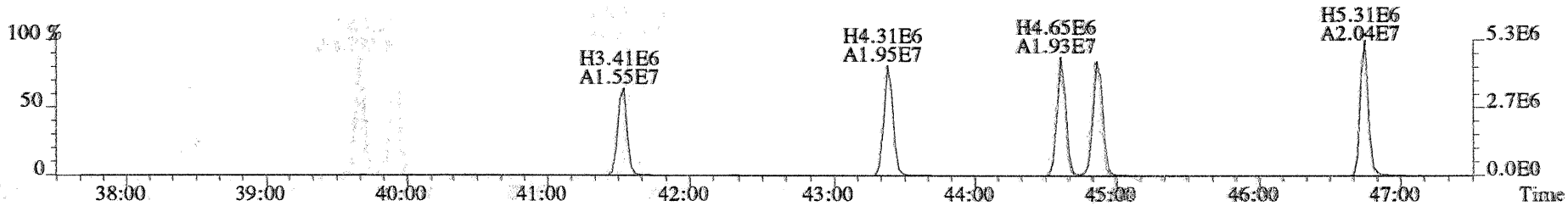
361.8385 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-406 Acq: 1-AUG-2019 22:01:41 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:ST080119Z2 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-406 Acq: 1-AUG-2019 22:01:41 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:ST080119Z2 File Text:Frontier Analytical Laboratory



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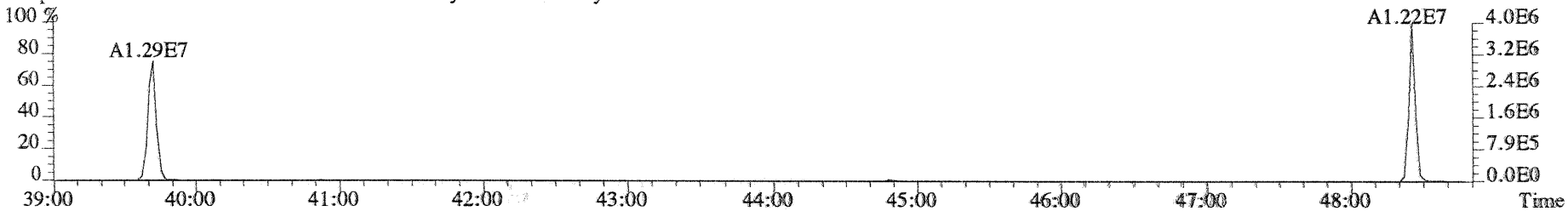
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-406 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
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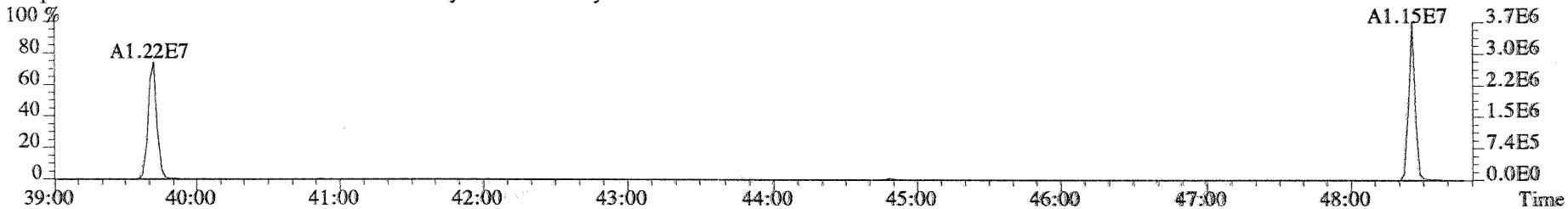
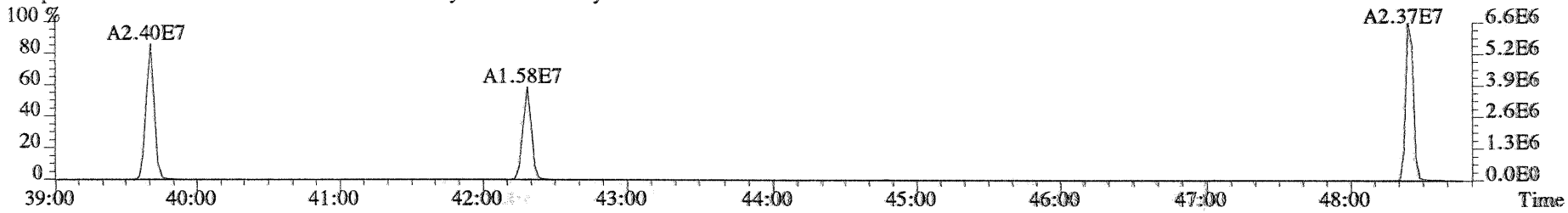
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-406 Acq: 1-AUG-2019 22:01:41 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:ST080119Z2 File Text:Frontier Analytical Laboratory



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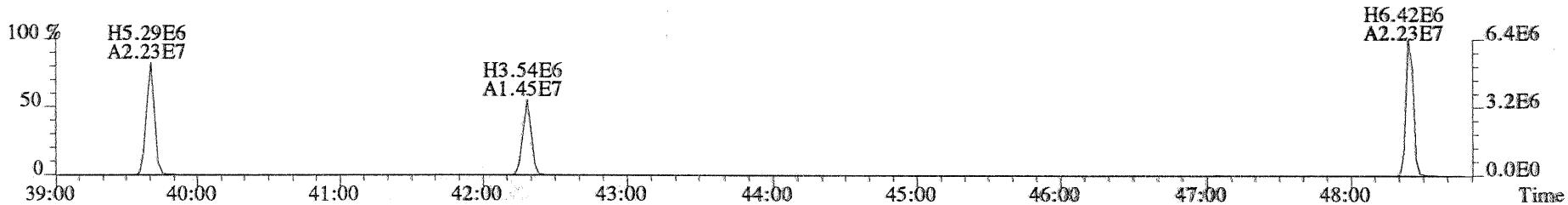
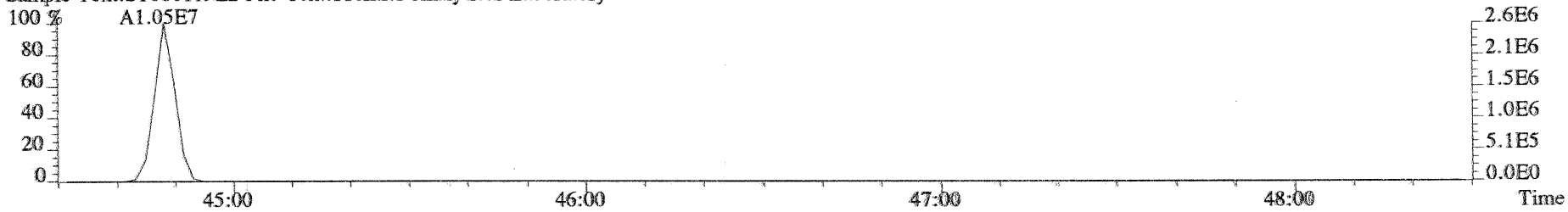
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



File:01AUG19Z #1-406 Acq: 1-AUG-2019 22:01:41 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:ST080119Z2 File Text:Frontier Analytical Laboratory



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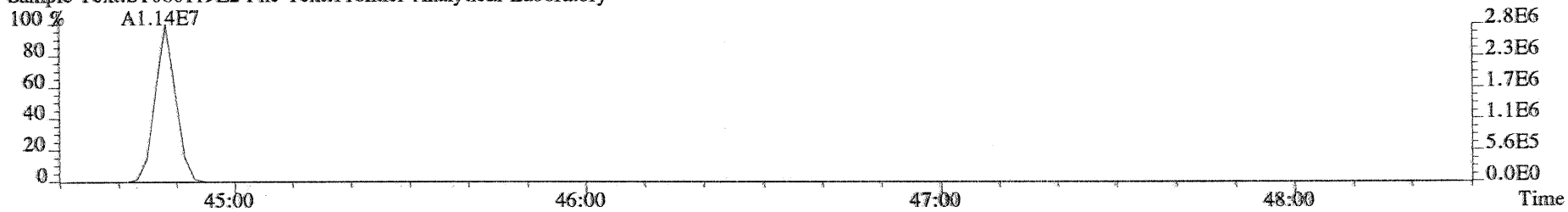
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



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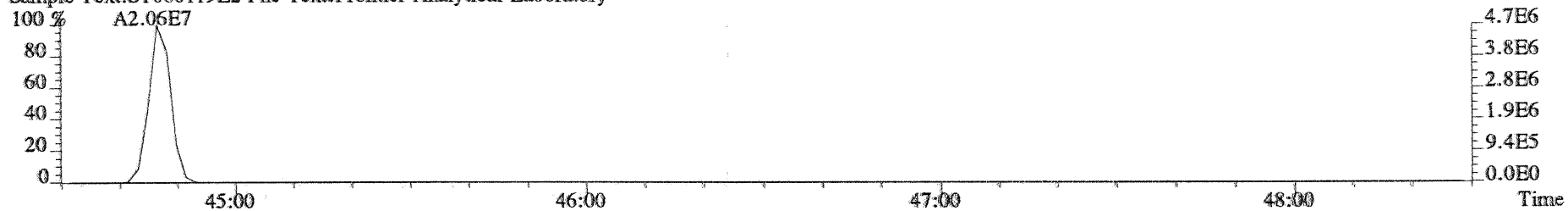
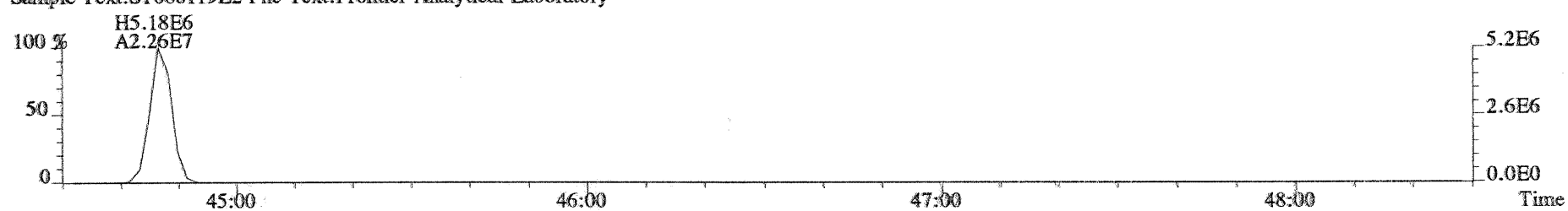
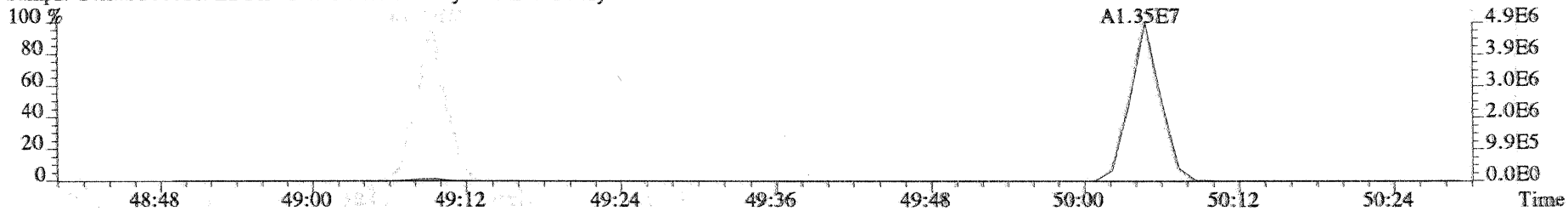


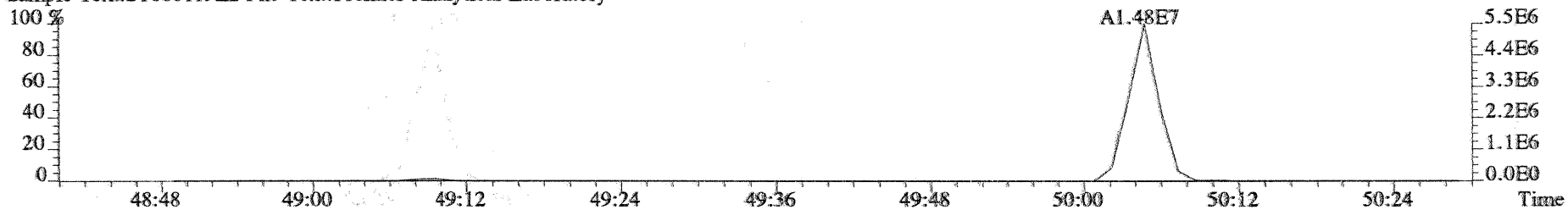
File:01AUG19Z #1-406 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



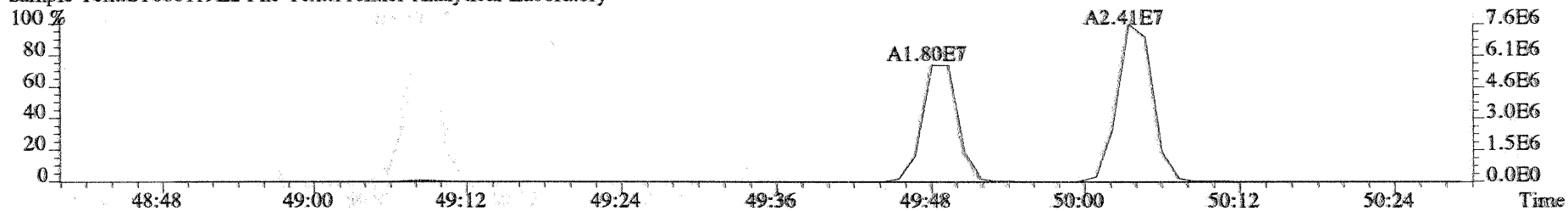
File:01AUG19Z #1-314 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



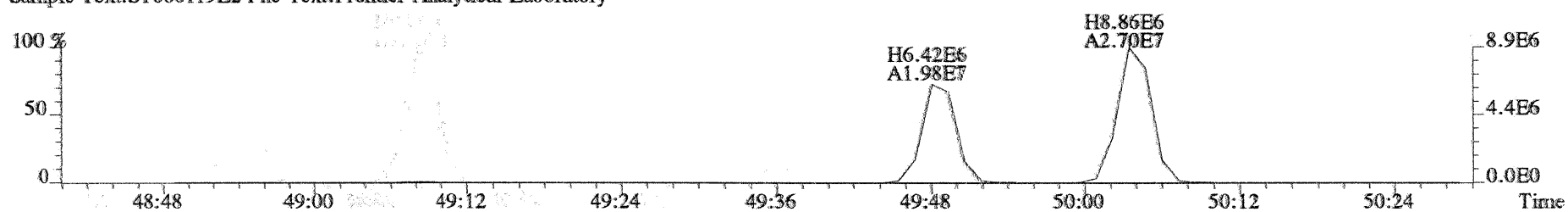
File:01AUG19Z #1-314 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



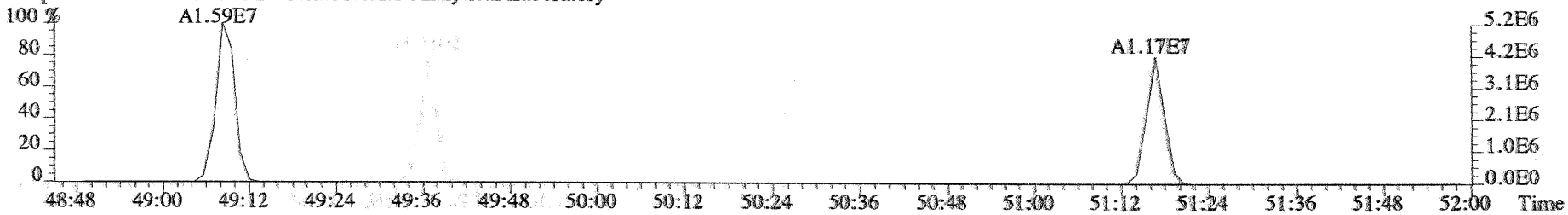
File:01AUG19Z #1-314 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



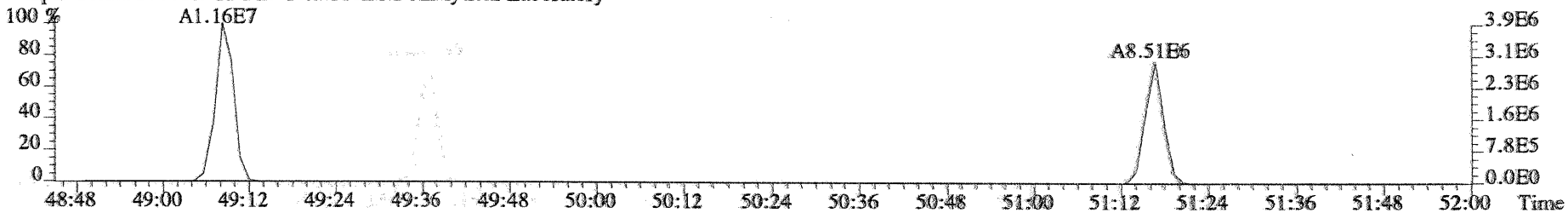
File:01AUG19Z #1-314 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



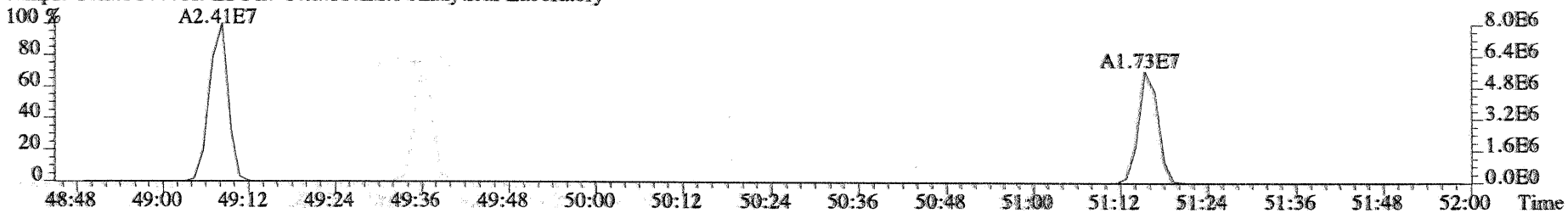
File:01AUG19Z #1-314 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



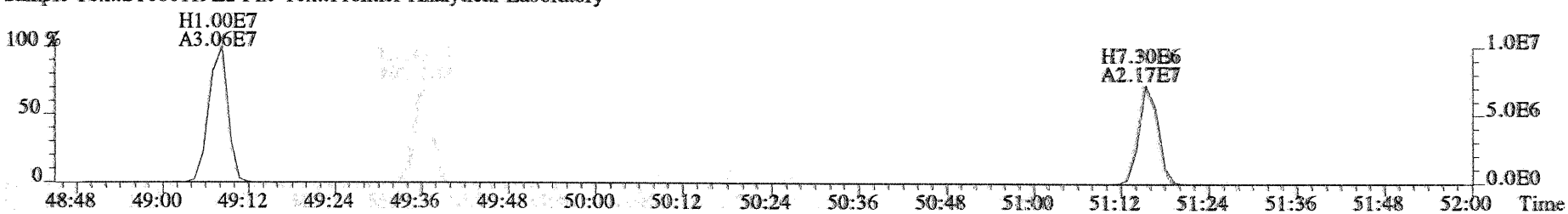
File:01AUG19Z #1-314 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



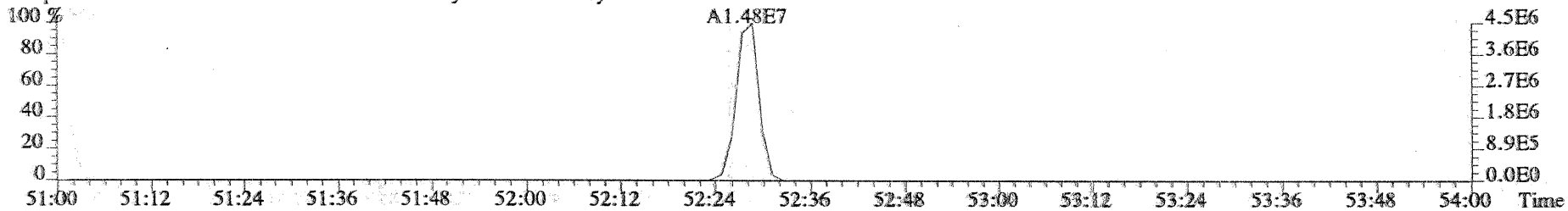
File:01AUG19Z #1-314 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



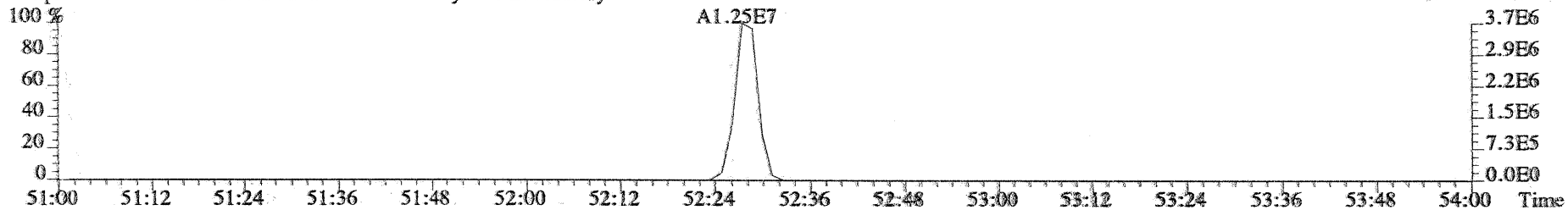
File:01AUG19Z #1-314 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



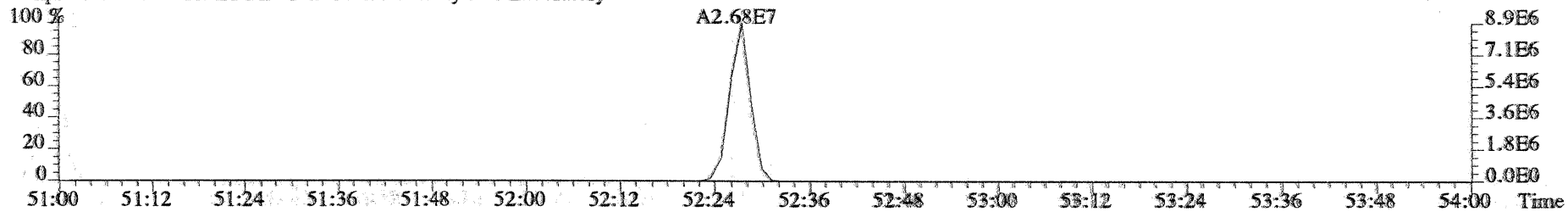
File:01AUG19Z #1-314 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



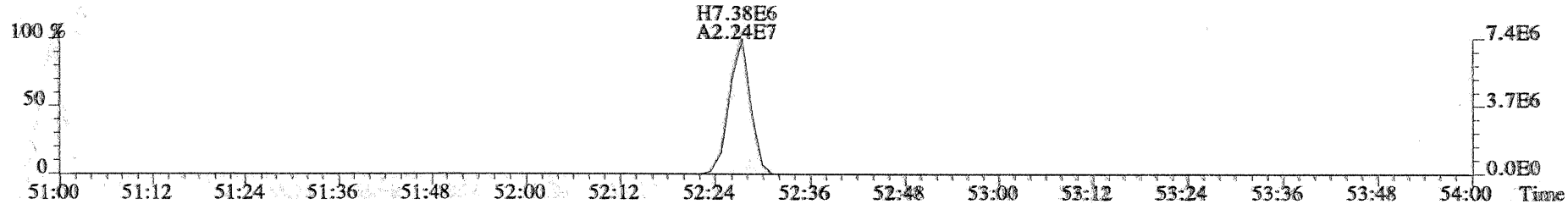
File:01AUG19Z #1-314 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory



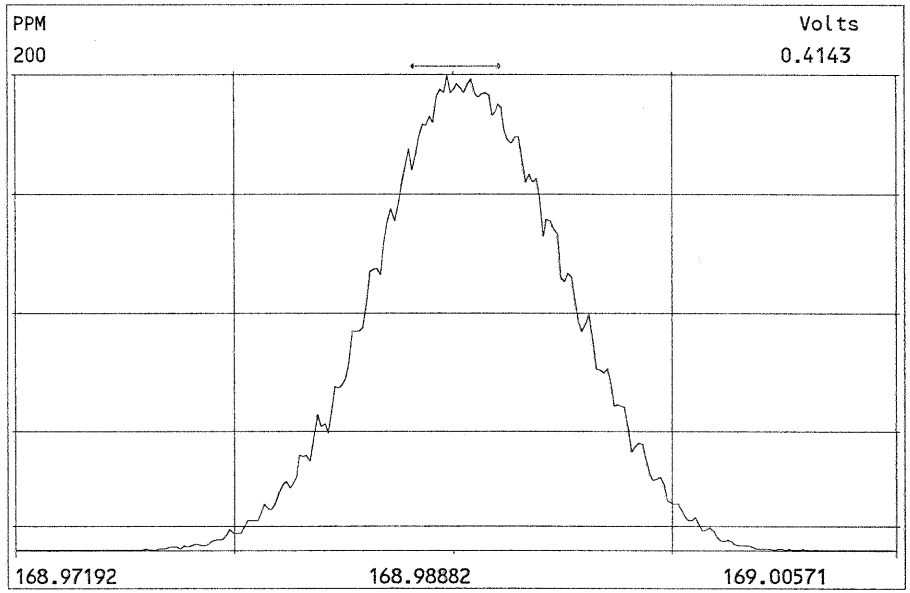
File:01AUG19Z #1-314 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory

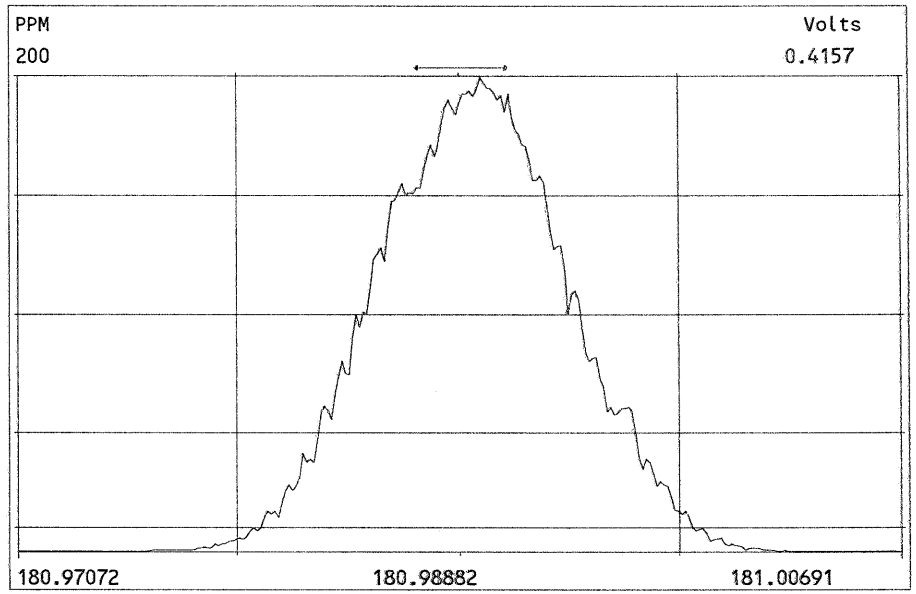


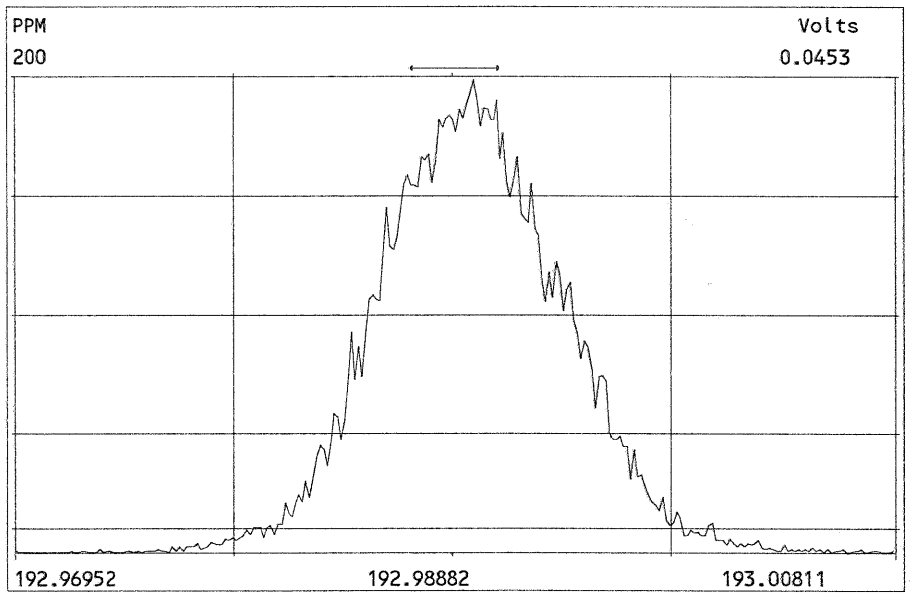
File:01AUG19Z #1-314 Acq: 1-AUG-2019 22:01:41 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080119Z2 File Text:Frontier Analytical Laboratory

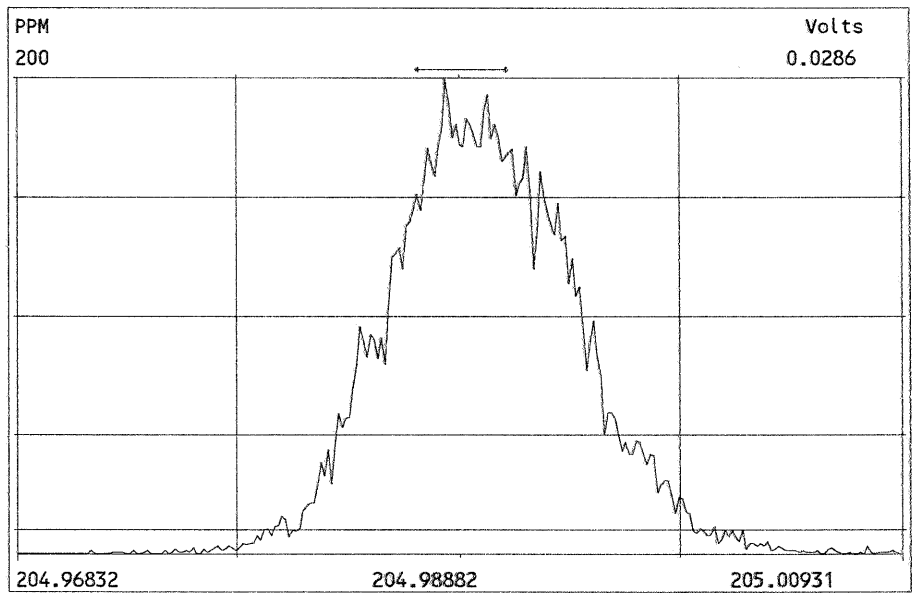


Peak Locate Examination: 1-AUG-2019:23:29 File:01AUG19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

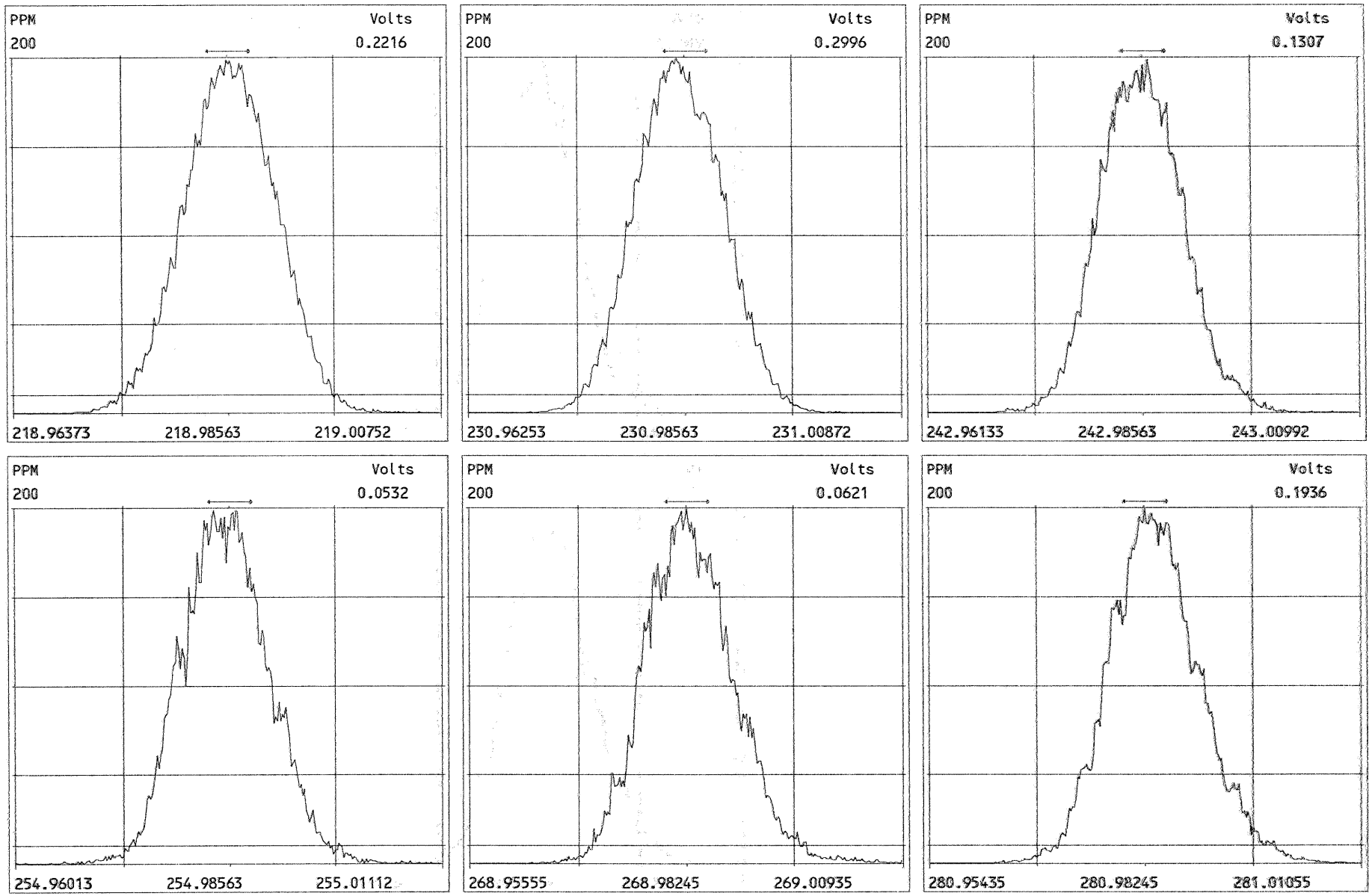




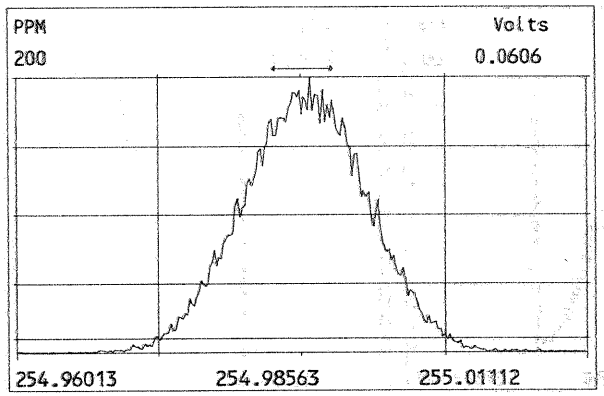


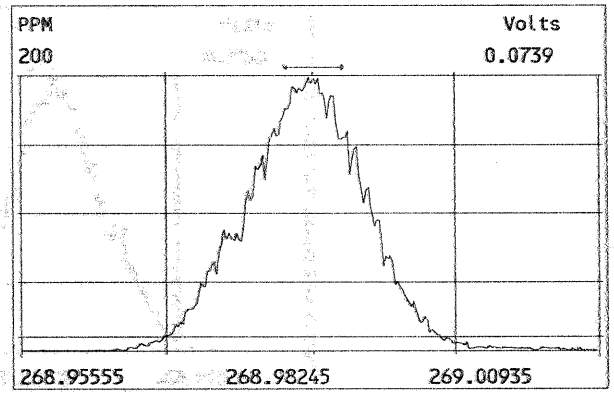


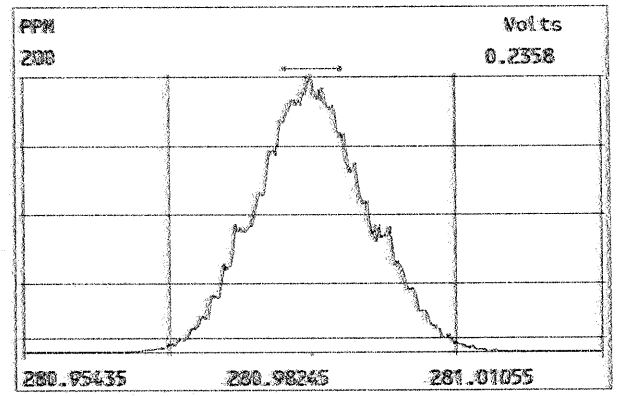
Peak Locate Examination: 1-AUG-2019:23:31 File:01AUG19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

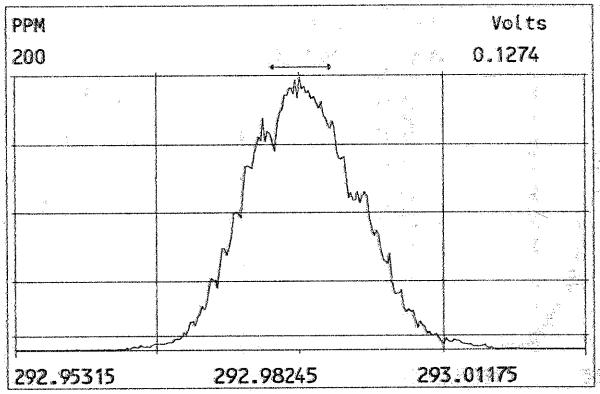


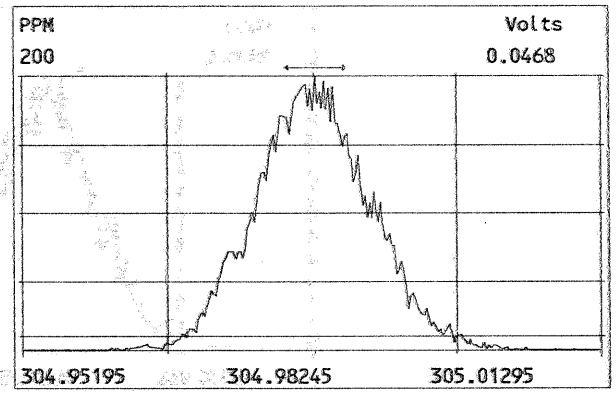
Peak Locate Examination: 1-AUG-2019:23:34 File:01AUG19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

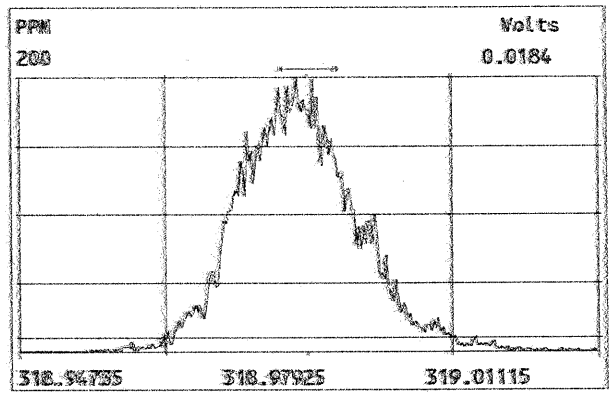


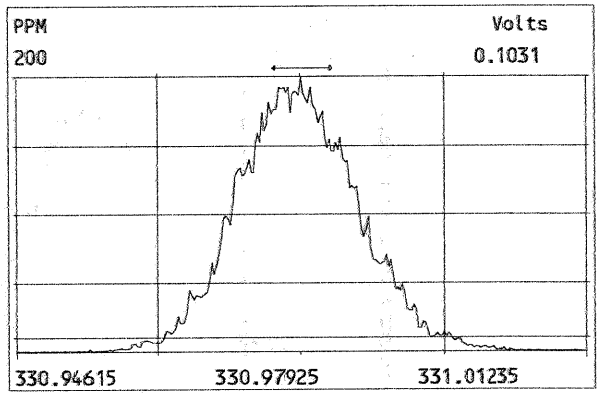


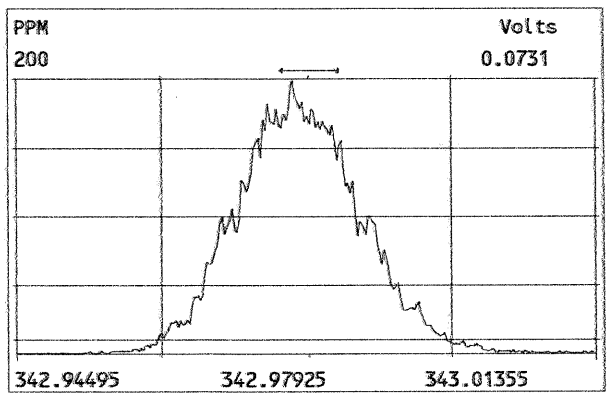




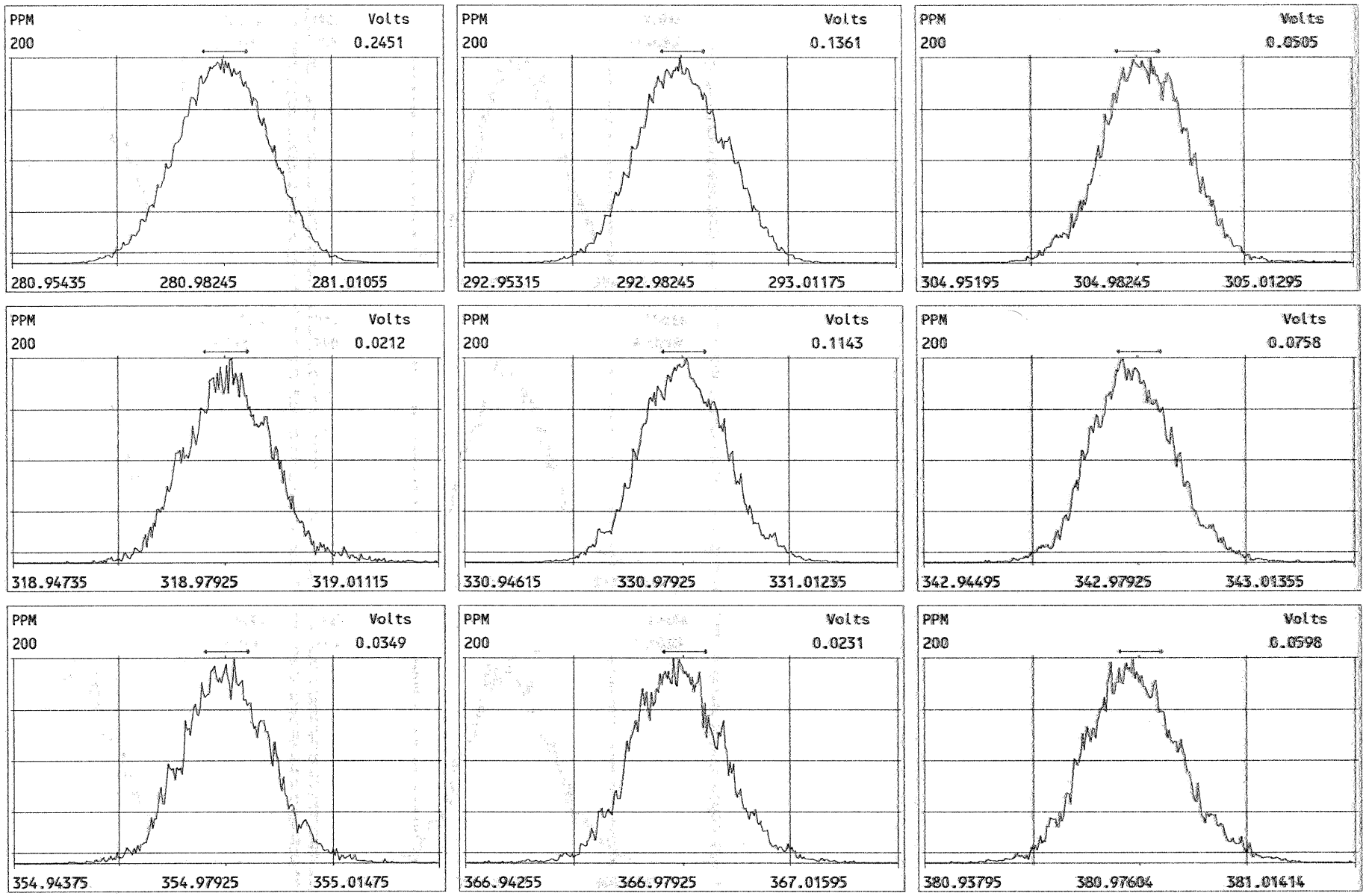




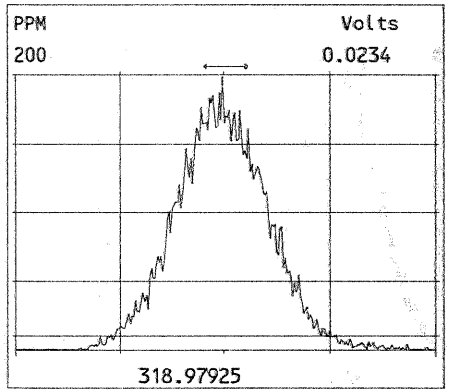


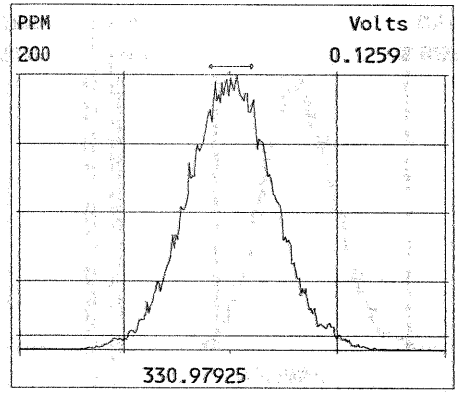


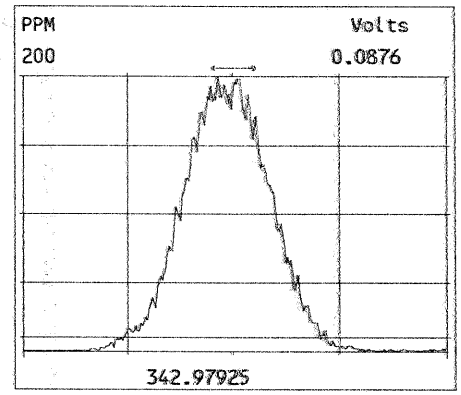
Peak Locate Examination: 1-AUG-2019:23:36 File:01AUG19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

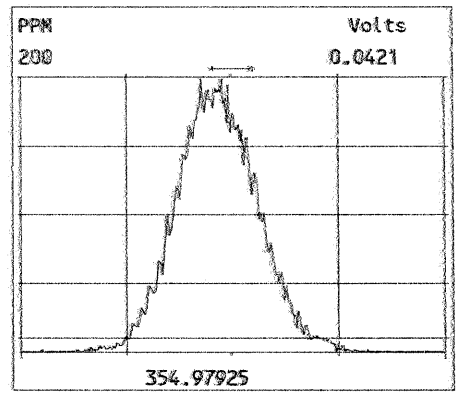


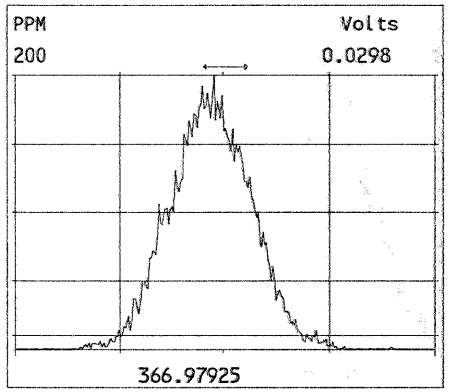
Peak Locate Examination: 1-AUG-2019:23:38 File:01AUG19Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

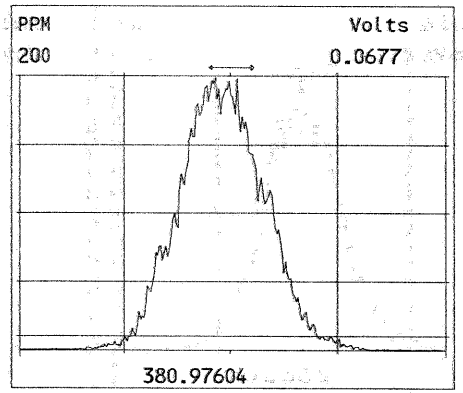


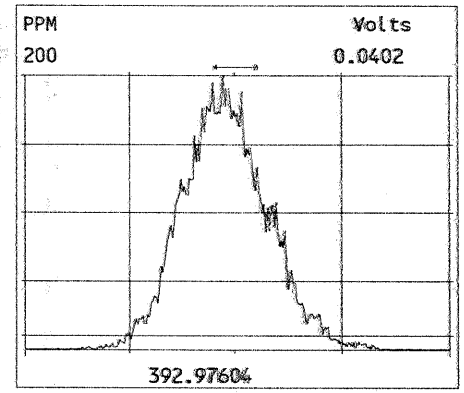


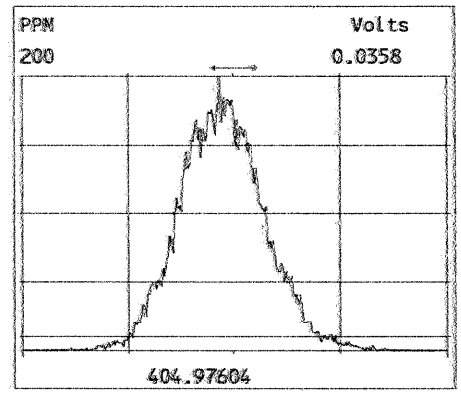


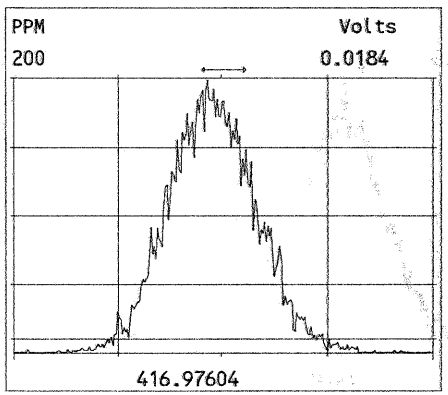


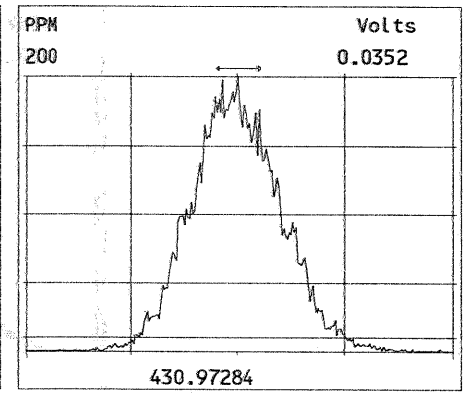


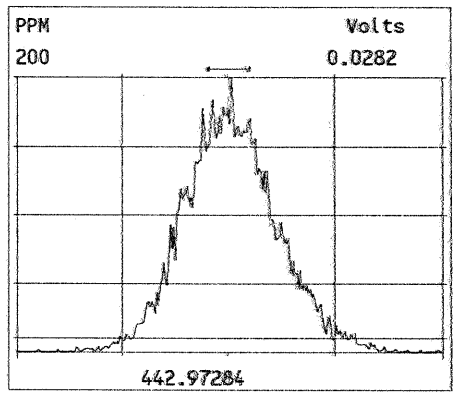




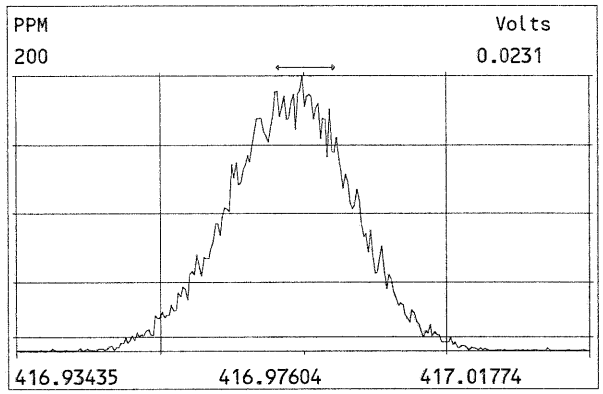


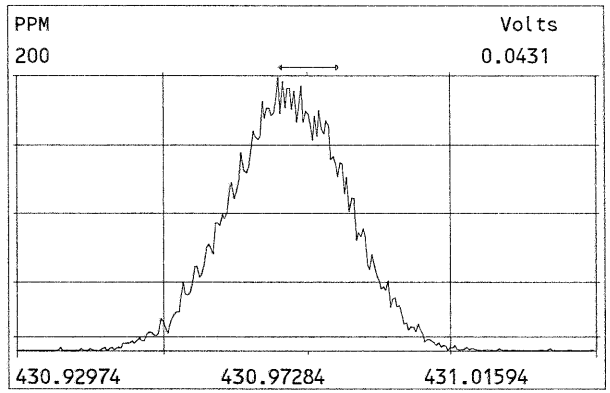


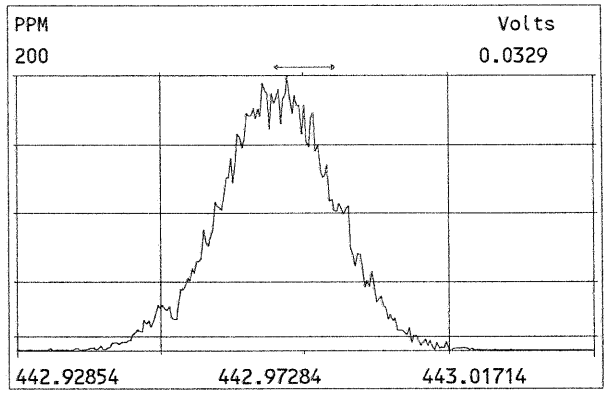


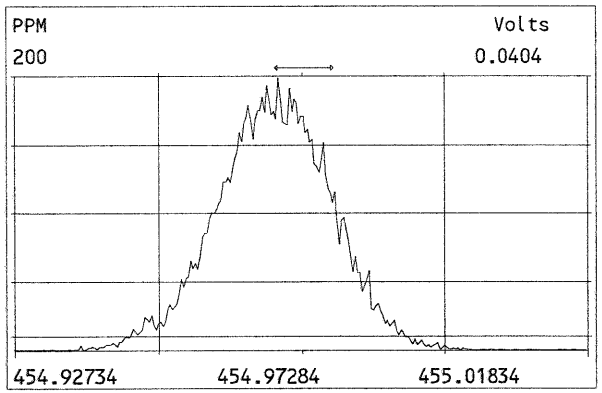


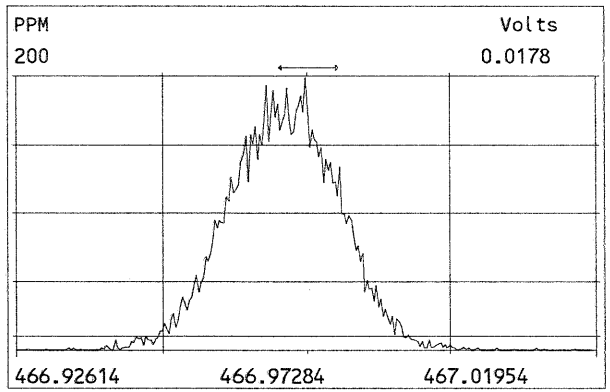
Peak Locate Examination: 1-AUG-2019:23:41 File:01AUG19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

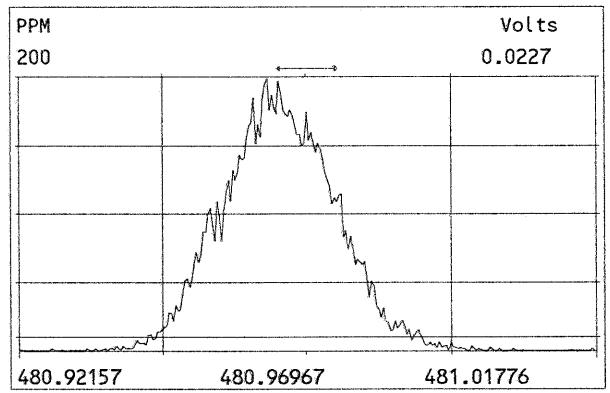


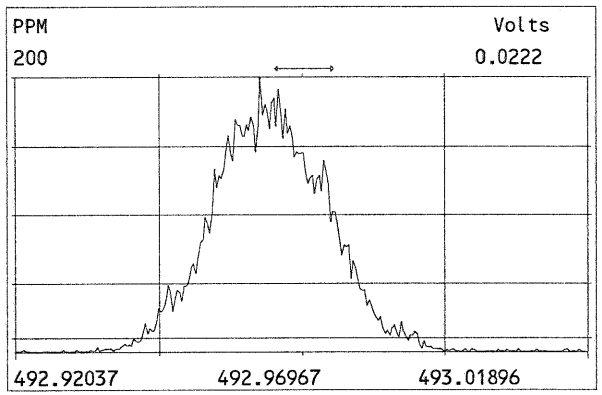


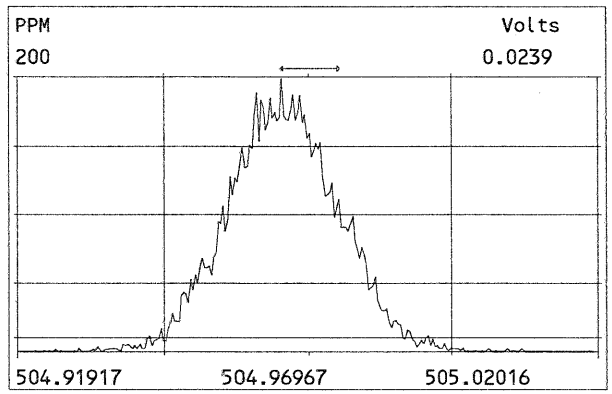


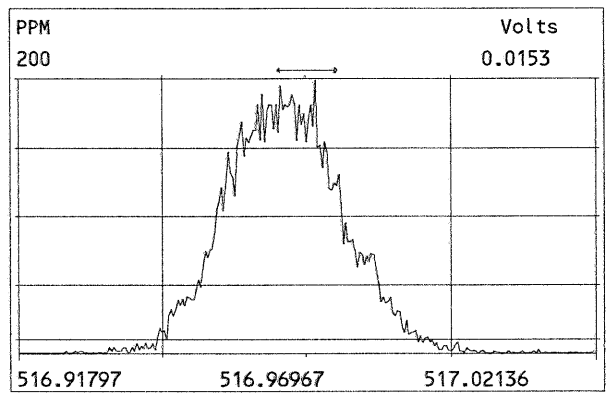












Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 02AUG19Z Sam:1 Analysis Date: 2-AUG-19 07:02:18

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.17	2.66-3.60	y	50.0	37.5 - 62.5
PCB-3	M/M+2	3.11	2.66-3.60	y	50.6	37.5 - 62.5
PCB-4	M/M+2	1.55	1.33-1.79	y	50.4	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	50.2	37.5 - 62.5
PCB-19	M/M+2	1.05	0.88-1.20	y	54.4	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	51.4	37.5 - 62.5
PCB-54	M/M+2	0.82	0.65-0.89	y	54.3	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	52.3	37.5 - 62.5
PCB-81	M/M+2	0.80	0.65-0.89	y	52.7	37.5 - 62.5
PCB-104	M+2/M+4	1.62	1.32-1.78	y	52.1	37.5 - 62.5
PCB-105	M+2/M+4	1.60	1.32-1.78	y	53.5	37.5 - 62.5
PCB-114	M+2/M+4	1.57	1.32-1.78	y	53.0	37.5 - 62.5
PCB-118	M+2/M+4	1.56	1.32-1.78	y	51.3	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	51.7	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	51.0	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	48.3	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	50.5	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	49.6	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	50.5	37.5 - 62.5
PCB-169	M+2/M+4	1.30	1.05-1.43	y	51.7	37.5 - 62.5
PCB-188	M+2/M+4	1.07	0.89-1.21	y	51.5	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	53.8	37.5 - 62.5
PCB-202	M+2/M+4	0.95	0.76-1.02	y	52.5	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	54.9	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	53.0	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	52.2	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	51.9	37.5 - 62.5

Analyst: [signature] Date: 8/2/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 02AUG19Z Sam:1 Analysis Date: 2-AUG-19 07:02:18

	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	3.27	2.66-3.60	y	85.4	50.0 - 145
13C-PCB-3	M/M+2	3.28	2.66-3.60	y	93.0	50.0 - 145
13C-PCB-4	M/M+2	1.61	1.33-1.79	y	85.5	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	105	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	84.0	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	107	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	83.4	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	99.5	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	100	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	83.4	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	109	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	116	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	120	50.0 - 145
13C-PCB-123	M+2/M+4	1.55	1.32-1.78	y	118	50.0 - 145
13C-PCB-126	M+2/M+4	1.58	1.32-1.78	y	102	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	91.4	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	111	50.0 - 145
13C-PCB-157	M+2/M+4	1.28	1.05-1.43	y	105	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	109	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	107	50.0 - 145
13C-PCB-188	M+2/M+4	1.05	0.89-1.21	y	92.2	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	108	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	89.9	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	98.9	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	108	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	104	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	109	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	108	65.0 - 135
13C-PCB-111	M+2/M+4	1.64	1.32-1.78	y	98.3	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	88.0	75.0 - 125

Analyst: [illegible] Date: 8/2/19

FAL ID: ST080219Z1 Filename: 02AUG19Z Sam:1 Acquired: 2-AUG-19 07:02:18 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 02AUG19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	8.03e+07	3.17 y	14:33	1.19	50.0		2.50	-	-	*	-
13C-PCB-1	1.34e+08	3.27 y	14:32	1.02	85.4		2.50				85.4
PCB-3	8.27e+07	3.11 y	16:59	1.18	50.6		2.50	-	-	*	-
13C-PCB-3	1.39e+08	3.28 y	16:58	0.97	93.0		2.50				93.0
PCB-4	5.13e+07	1.55 y	18:13	1.04	50.4		2.50	-	-	*	-
13C-PCB-4	9.73e+07	1.61 y	18:12	0.74	85.5		2.50				85.5
PCB-15	8.09e+07	1.55 y	23:44	1.03	50.2		2.50	-	-	*	-
13C-PCB-15	1.56e+08	1.60 y	23:43	0.96	105		2.50				105
PCB-19	4.11e+07	1.05 y	22:06	1.11	54.4		2.50	-	-	*	-
13C-PCB-19	6.81e+07	1.07 y	22:04	0.53	84.0		2.50				84.0
13C-PCB-9	1.54e+08	1.58 y	19:52	-	199		2.50				
PCB-37	6.60e+07	1.05 y	30:22	1.04	51.4		2.50	-	-	*	-
13C-PCB-37	1.24e+08	1.06 y	30:21	1.57	107		2.50				107
PCB-54	5.36e+07	0.82 y	25:38	1.16	54.3		2.50	-	-	*	-
13C-PCB-54	8.48e+07	0.82 y	25:37	1.38	83.4		2.50				83.4
PCB-104	3.82e+07	1.62 y	30:03	1.08	52.1		2.50	-	-	*	-
13C-PCB-104	6.78e+07	1.59 y	30:02	1.11	83.4		2.50				83.4
13C-PCB-28	1.36e+08	1.07 y	26:41	1.71	108		2.50				108
13C-PCB-52	7.36e+07	0.82 y	28:56	-	193		2.50				
PCB-81	5.12e+07	0.80 y	36:08	1.06	52.7		2.50	-	-	*	-
13C-PCB-81	9.13e+07	0.80 y	36:07	1.50	100		2.50				100
PCB-77	5.05e+07	0.79 y	36:43	1.02	52.3		2.50	-	-	*	-
13C-PCB-77	9.45e+07	0.80 y	36:41	1.57	99.5		2.50				99.5
PCB-155	3.89e+07	1.27 y	34:12	1.02	48.3		2.50	-	-	*	-
13C-PCB-155	7.86e+07	1.28 y	34:11	1.42	91.4		2.50				91.4
13C-PCB-111	7.68e+07	1.64 y	36:16	1.29	98.3		2.50				98.3
13C-PCB-101	6.07e+07	1.63 y	34:37	-	184		2.50				
PCB-123	3.99e+07	1.57 y	38:20	1.03	51.7		2.50	-	-	*	-
13C-PCB-123	7.46e+07	1.55 y	38:19	1.40	118		2.50				118
PCB-118	4.37e+07	1.56 y	38:30	1.02	51.3		2.50	-	-	*	-
13C-PCB-118	8.36e+07	1.61 y	38:29	1.53	120		2.50				120
PCB-114	4.08e+07	1.57 y	39:08	1.01	53.0		2.50	-	-	*	-
13C-PCB-114	7.60e+07	1.61 y	39:06	1.45	116		2.50				116
PCB-105	3.85e+07	1.60 y	39:56	1.02	53.5		2.50	-	-	*	-
13C-PCB-105	7.09e+07	1.61 y	39:56	1.44	109		2.50				109
PCB-126	3.27e+07	1.57 y	42:02	1.02	51.0		2.50	-	-	*	-
13C-PCB-126	6.32e+07	1.58 y	42:02	1.37	102		2.50				102
PCB-167	3.41e+07	1.26 y	43:25	1.07	50.5		2.50	-	-	*	-
13C-PCB-167	6.32e+07	1.29 y	43:23	1.28	109		2.50				109
PCB-156	3.45e+07	1.25 y	44:39	1.10	50.5		2.50	-	-	*	-
13C-PCB-156	6.23e+07	1.30 y	44:37	1.24	111		2.50				111
PCB-157	3.34e+07	1.24 y	44:54	1.06	49.6		2.50	-	-	*	-
13C-PCB-157	6.35e+07	1.28 y	44:54	1.34	105		2.50				105
PCB-169	3.31e+07	1.30 y	46:46	1.06	51.7		2.50	-	-	*	-
13C-PCB-169	6.02e+07	1.29 y	46:46	1.24	107		2.50				107
PCB-188	2.81e+07	1.07 y	39:43	1.02	51.5		2.50	-	-	*	-
13C-PCB-188	5.38e+07	1.05 y	39:41	1.29	92.2		2.50				92.2
PCB-189	2.79e+07	1.07 y	48:26	0.99	53.8		2.50	-	-	*	-
13C-PCB-189	5.23e+07	1.07 y	48:24	1.07	108		2.50				108
PCB-202	2.30e+07	0.95 y	44:49	0.99	52.5		2.50	-	-	*	-
13C-PCB-202	4.43e+07	0.92 y	44:49	1.09	89.9		2.50				89.9
13C-PCB-178	3.21e+07	1.05 y	42:19	0.81	88.0		2.50				88.0
13C-PCB-138	4.53e+07	1.30 y	41:33	-	141		2.50				

FAL ID: ST080219Z1 Filename: 02AUG19Z Sam:1 Acquired: 2-AUG-19 07:02:18 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 02AUG19Z GC Column: DB1MS Amount: 1.000

PCB-205	3.42e+07	0.91	y	50:05	1.02	54.9	2.50	-	-	*	-
13C-PCB-205	6.09e+07	0.89	y	50:04	1.40	98.9	2.50				98.9
PCB-208	3.17e+07	1.34	y	49:09	0.98	52.2	2.50	-	-	*	-
13C-PCB-208	6.22e+07	0.81	y	49:09	1.36	104	2.50				104
PCB-206	2.51e+07	1.36	y	51:17	0.99	53.0	2.50	-	-	*	-
13C-PCB-206	4.76e+07	0.80	y	51:16	1.01	108	2.50				108
PCB-209	3.29e+07	1.20	y	52:28	1.09	51.9	2.50	-	-	*	-
13C-PCB-209	5.83e+07	1.20	y	52:28	1.21	109	2.50				109
13C-PCB-194	4.39e+07	0.93	y	49:48	-	143	2.50				

Analyst: _____ Date: 8/2/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:02AUG19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

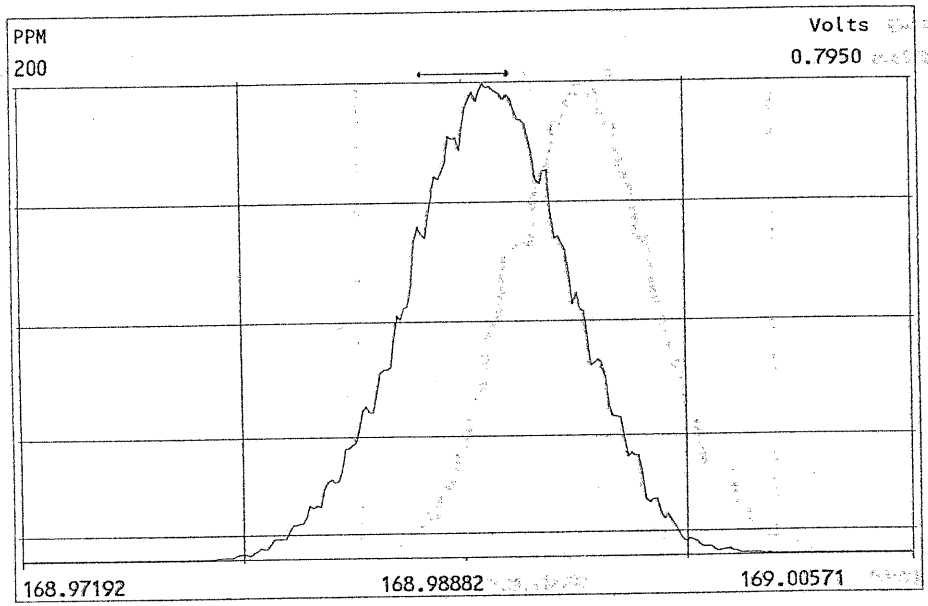
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
02AUG19Z	1	ST080219Z1	1668 CS3 R181204D	2-AUG-19 07:02:18	ST080219Z1	ST080219Z2	BS
02AUG19Z	2	SS080219Z1	Daily 209 190408A	2-AUG-19 08:00:38	ST080219Z1	ST080219Z2	BS
02AUG19Z	3	04992-001-0001-OPR	OPR	2-AUG-19 08:58:59	ST080219Z1	ST080219Z2	BS
02AUG19Z	4	04992-001-0001-MB	Method Blank	2-AUG-19 09:57:20	ST080219Z1	ST080219Z2	BS
02AUG19Z	5	12511-001-0001-SA	LDW-Y2-IN-ENR+AC-CB-S010	2-AUG-19 10:55:41	ST080219Z1	ST080219Z2	BS
02AUG19Z	6	12511-002-0001-SA	LDW-Y2-IN-ENR+AC-CC-S010	2-AUG-19 11:54:03	ST080219Z1	ST080219Z2	BS
02AUG19Z	7	12511-003-0001-SA	LDW-Y2-IN-ENR+AC-CD-S010	2-AUG-19 12:52:24	ST080219Z1	ST080219Z2	BS
02AUG19Z	8	12511-004-0001-SA	LDW-Y2-IN-ENR+AC-CE-S010	2-AUG-19 13:50:46	ST080219Z1	ST080219Z2	BS
02AUG19Z	9	12511-005-0001-SA	LDW-Y2-IN-ENR-CA-S010	2-AUG-19 14:49:07	ST080219Z1	ST080219Z2	BS
02AUG19Z	10	12511-006-0001-SA	LDW-Y2-IN-ENR-CB-S010	2-AUG-19 15:47:28	ST080219Z1	ST080219Z2	BS
02AUG19Z	11	12511-007-0001-SA	LDW-Y2-IN-ENR-CC-S010	2-AUG-19 16:46:14	ST080219Z1	ST080219Z2	BS
02AUG19Z	12	12511-008-0001-SA	LDW-Y2-IN-ENR-CD-S010	2-AUG-19 17:45:00	ST080219Z1	ST080219Z2	BS
02AUG19Z	13	12510-014-0001-SA	LDW-Y2-SU-S010-LCB	2-AUG-19 18:43:46	ST080219Z1	ST080219Z2	BS
02AUG19Z	14	12510-015-0001-SA	LDW-Y2-IN-ENR+AC-CA-S010	2-AUG-19 19:42:07	ST080219Z1	ST080219Z2	BS
02AUG19Z	15	SB080219Z1	Solvent Blank	2-AUG-19 20:40:28	ST080219Z1	ST080219Z2	BS
02AUG19Z	16	ST080219Z2	1668 CS3 R181204D	2-AUG-19 21:38:52	ST080219Z1	ST080219Z2	BS

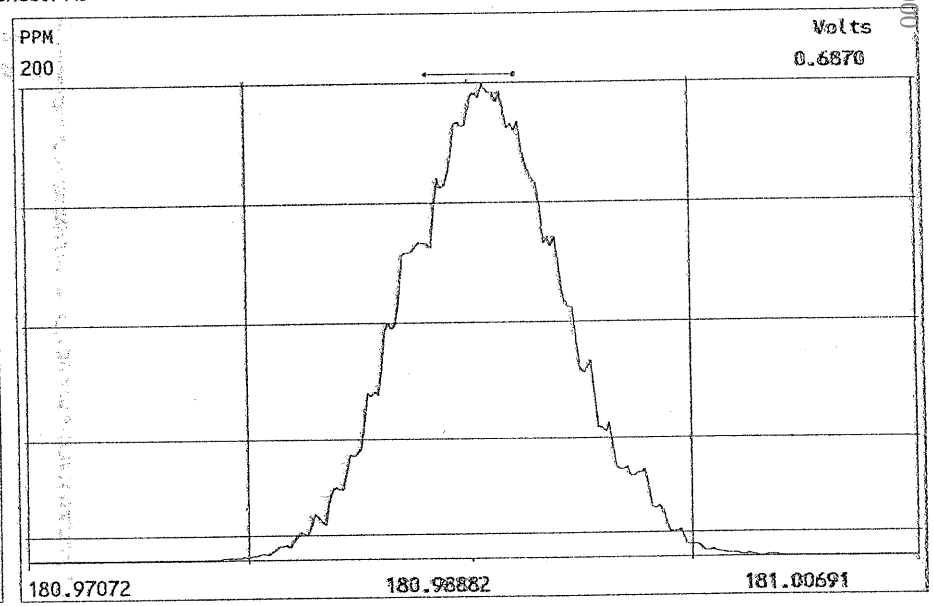
8/5/19

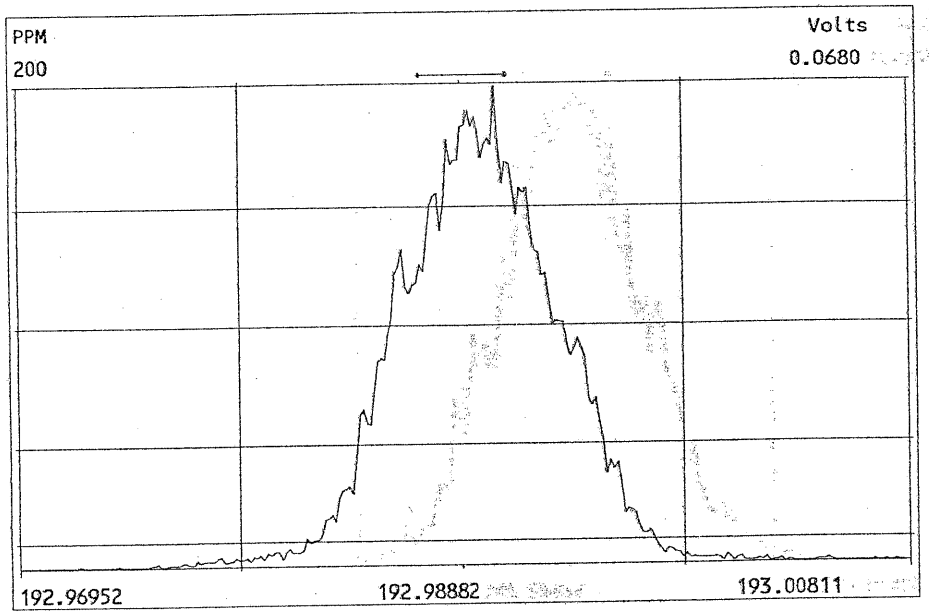
Data Backed Up:_____

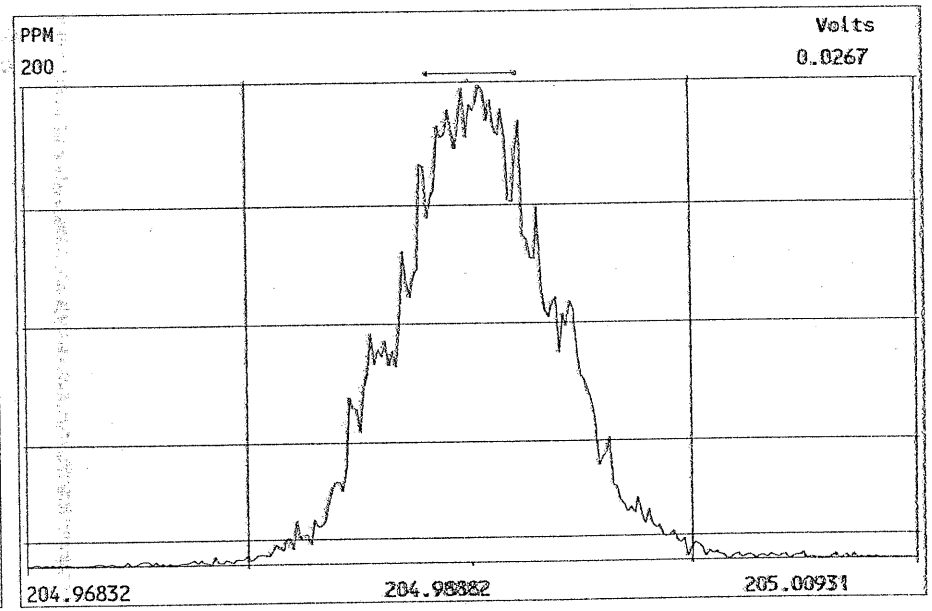
Date:_____

Peak Locate Examination: 2-AUG-2019:06:59 File:02AUG19Z
Experiment:1668PCB Function:1 Reference:PFK

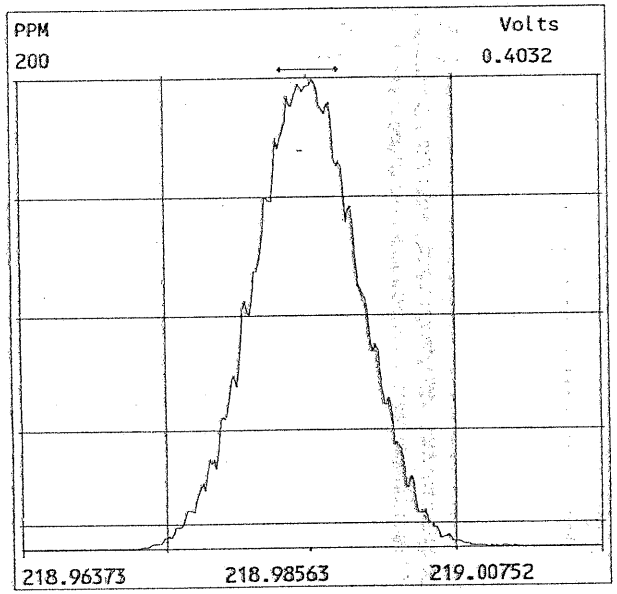


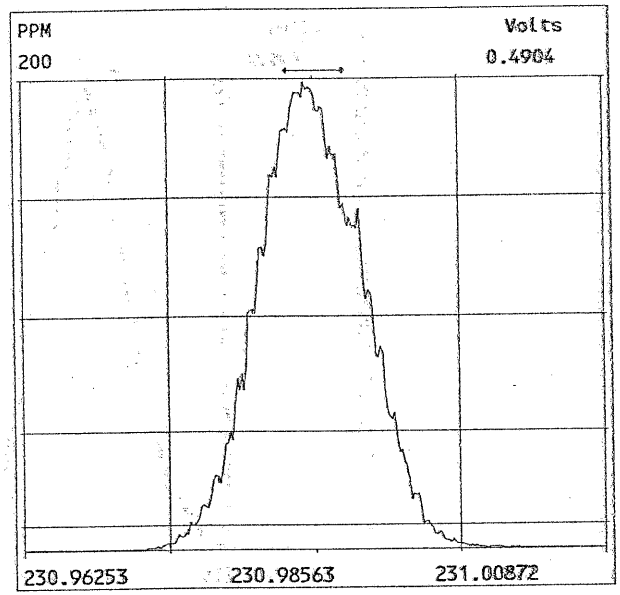


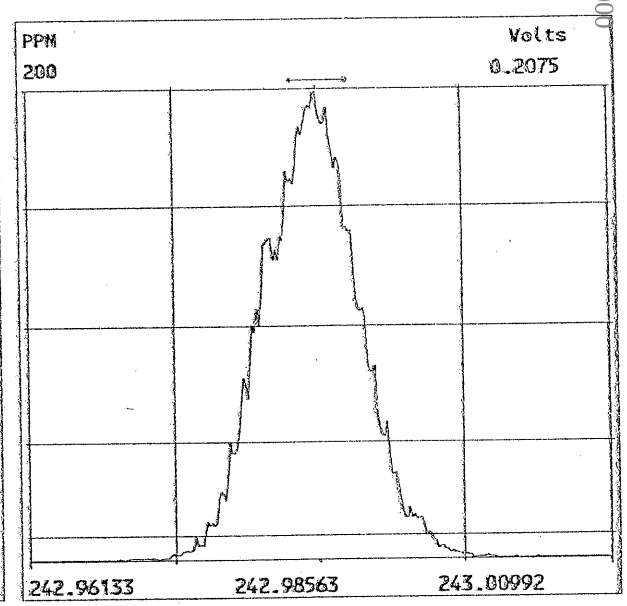


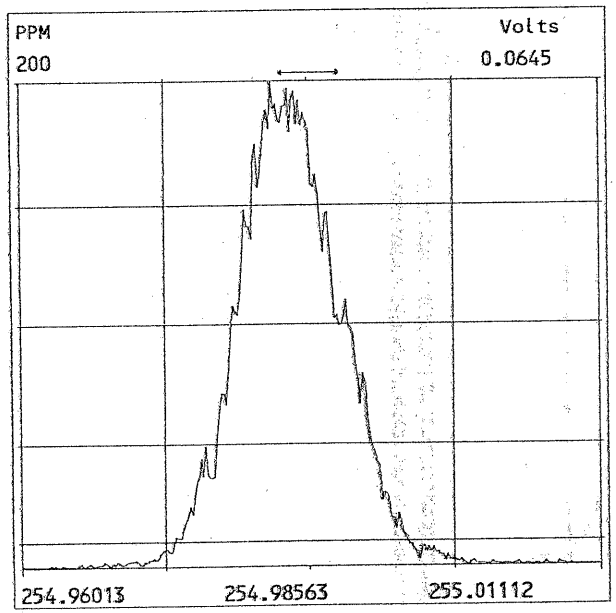


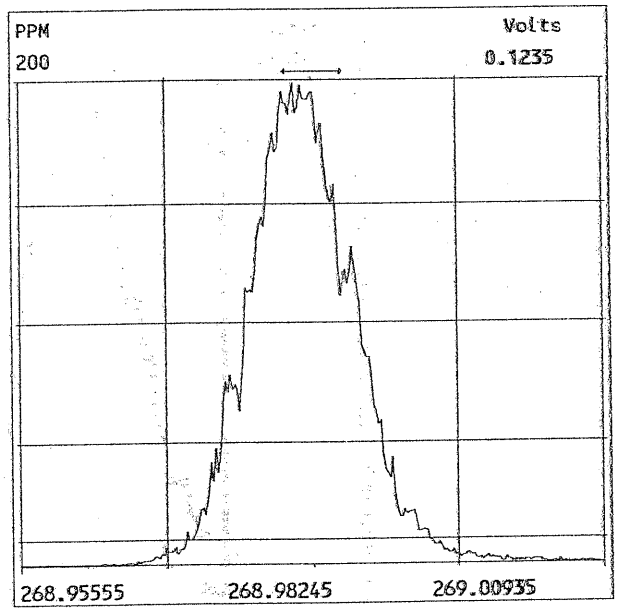
Peak Locate Examination: 2-AUG-2019:07:00 File:02AUG19Z
Experiment:1668PCB Function:2 Reference:PFK

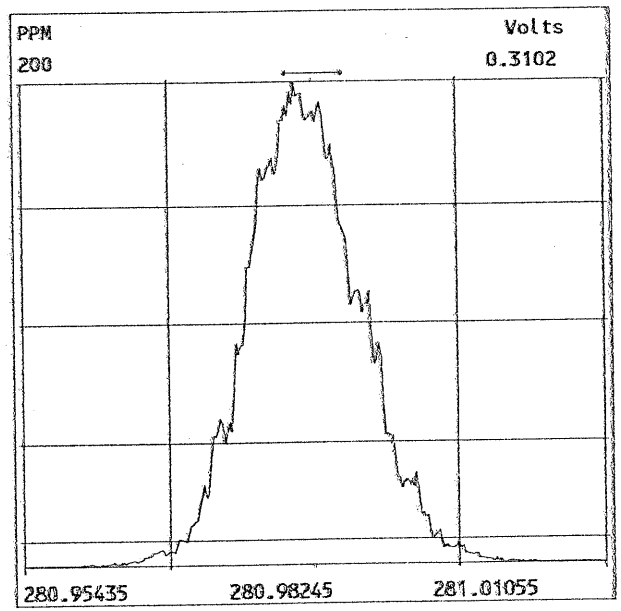




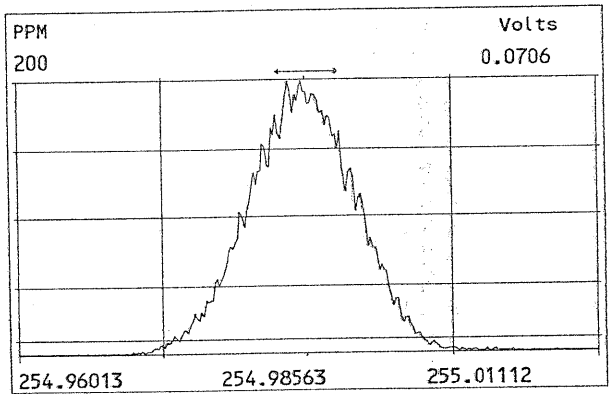


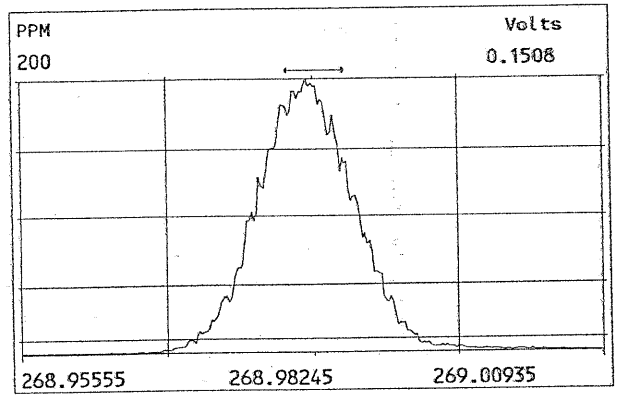


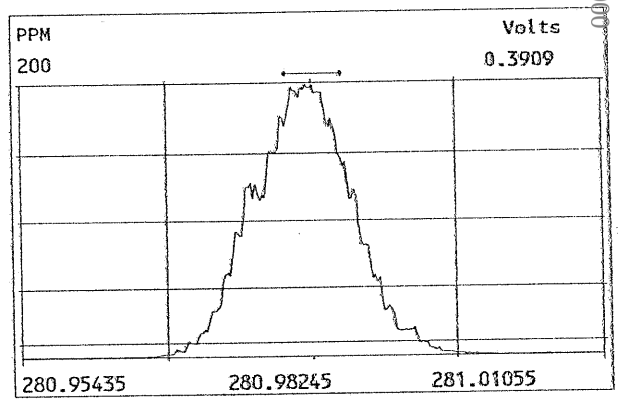


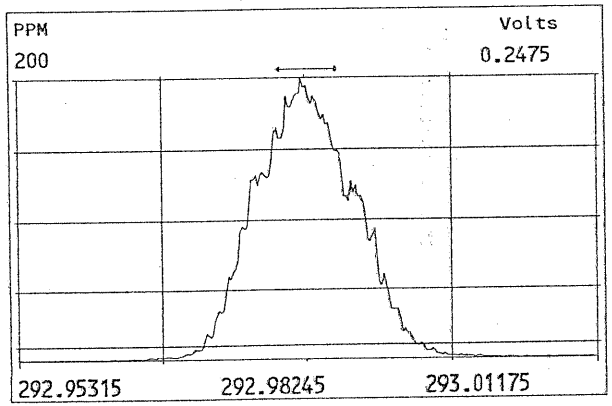


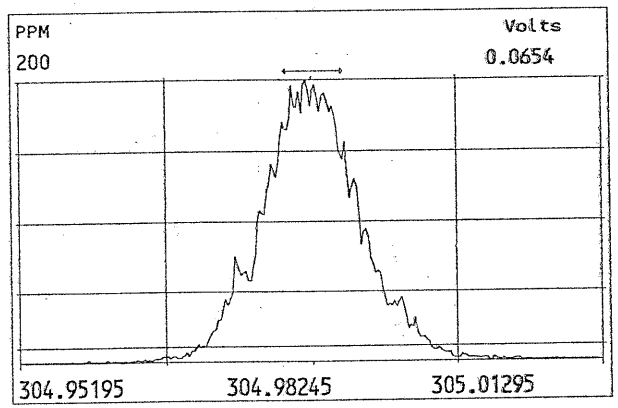
Peak Locate Examination: 2-AUG-2019:07:00 File:02AUG19Z
Experiment:1668PCB Function:3 Reference:PFK

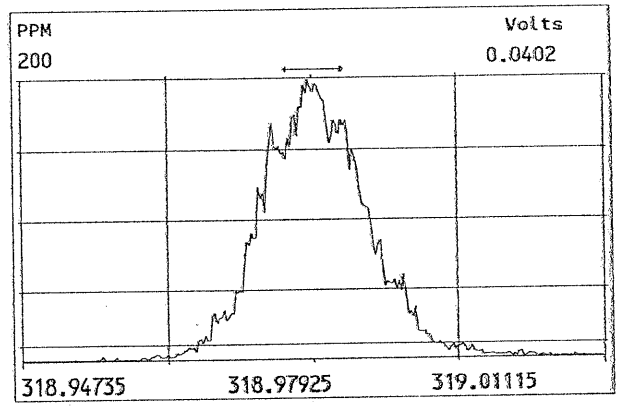


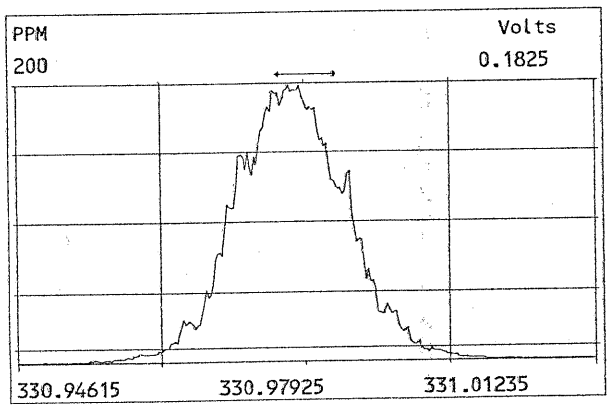


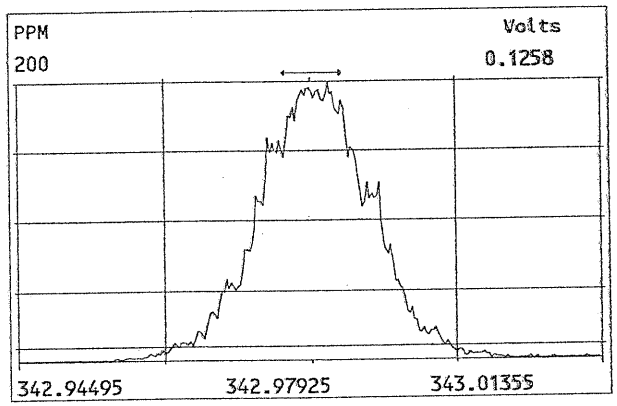




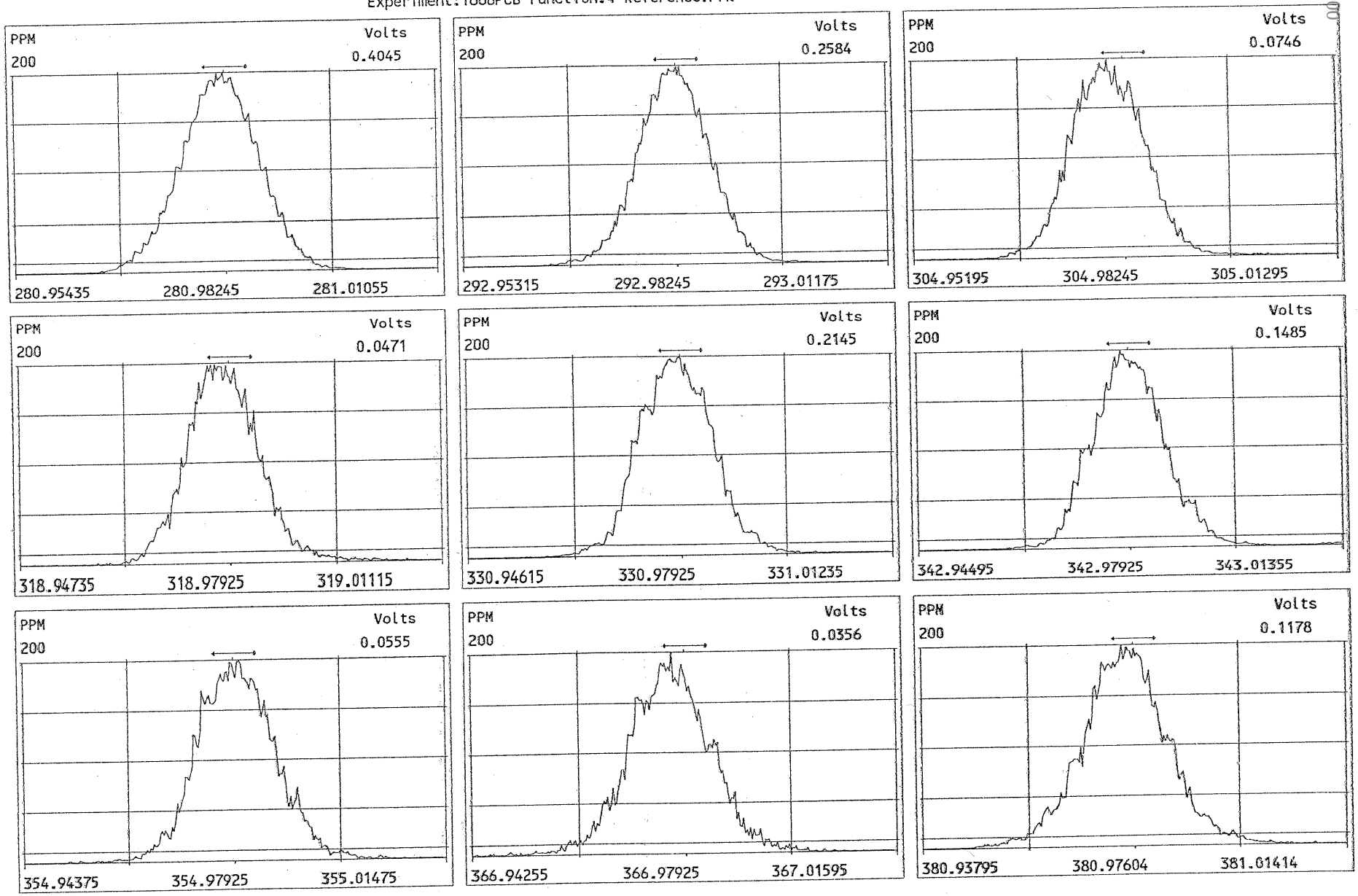




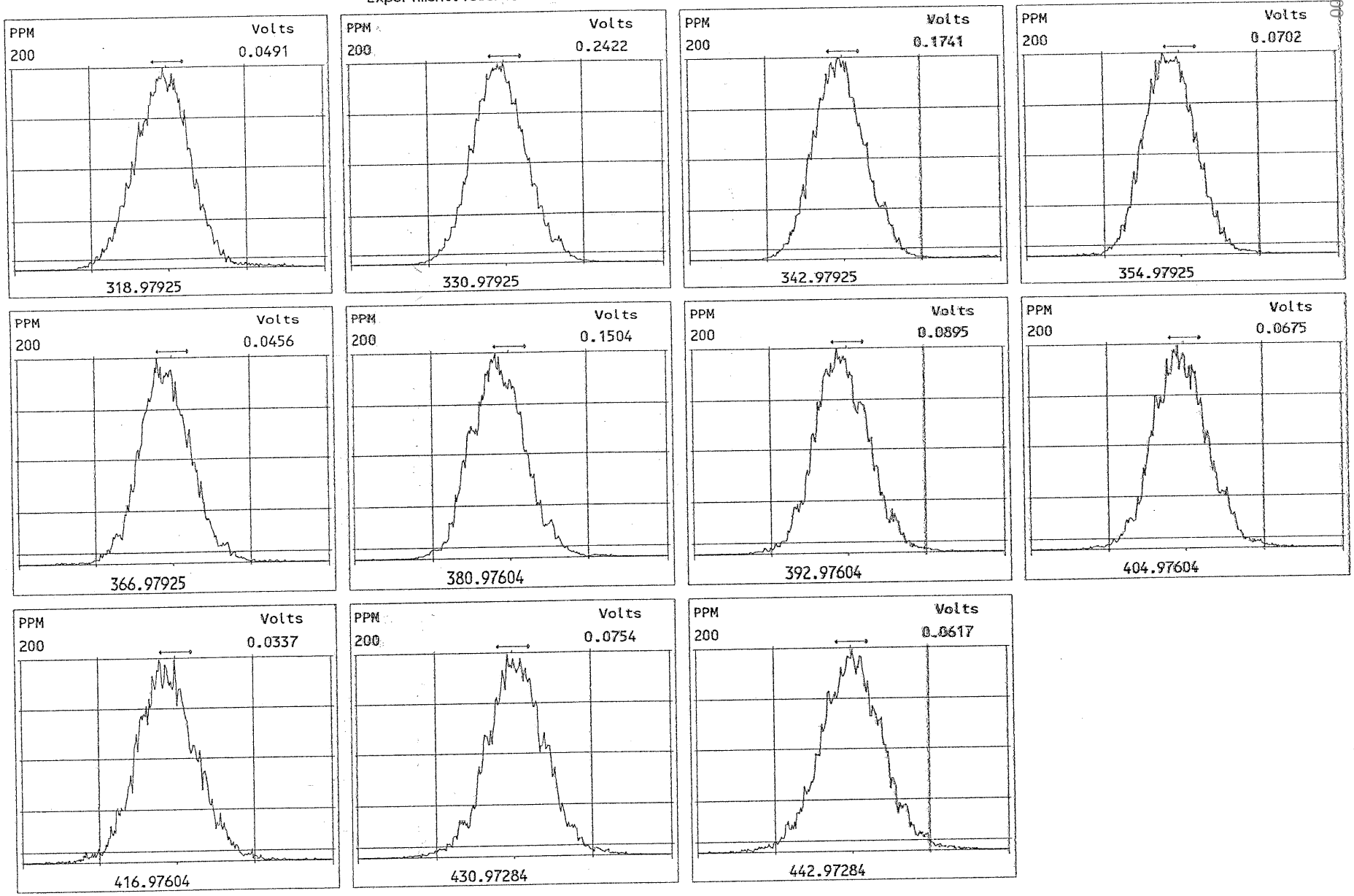




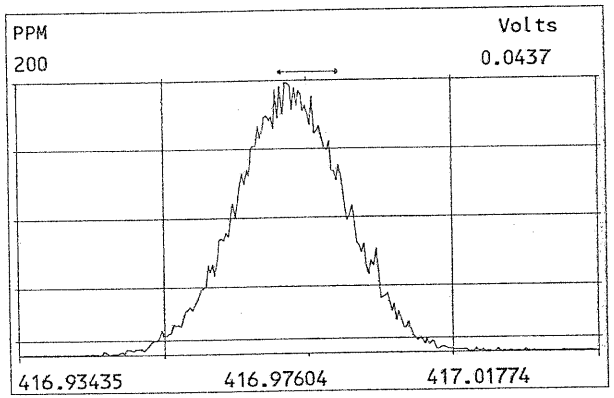
Peak Locate Examination: 2-AUG-2019:07:00 File:02AUG19Z
Experiment:1668PCB Function:4 Reference:PFK

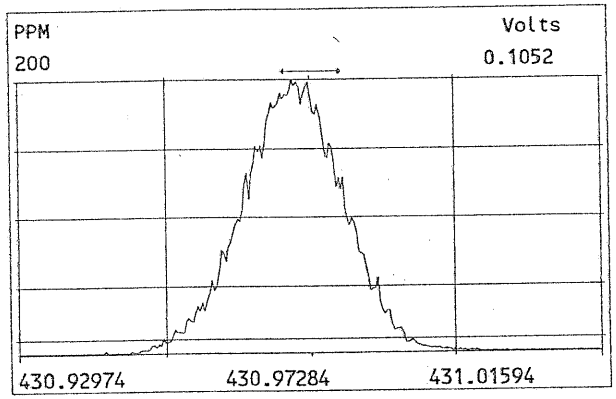


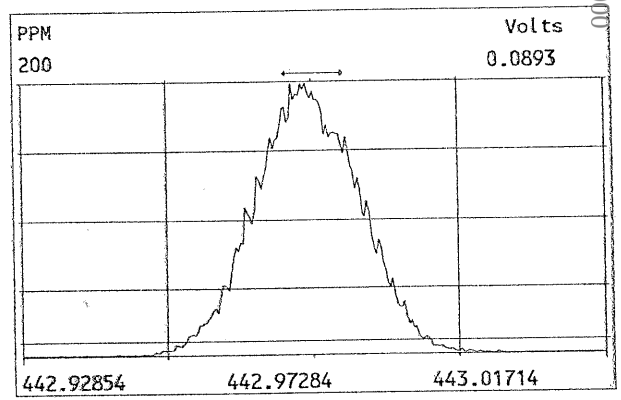
Peak Locate Examination: 2-AUG-2019:07:01 File:02AUG19Z
Experiment:1668PCB Function:5 Reference:PFK

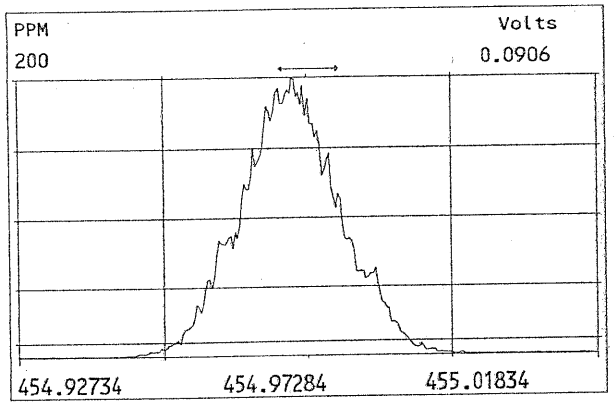


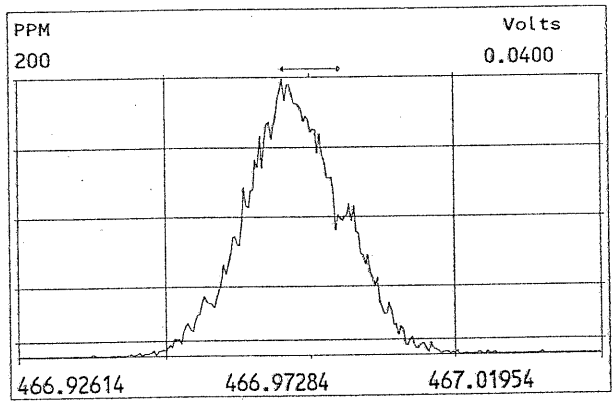
Peak Locate Examination: 2-AUG-2019:07:01 File:02AUG19Z
Experiment:1668PCB Function:6 Reference:PFK

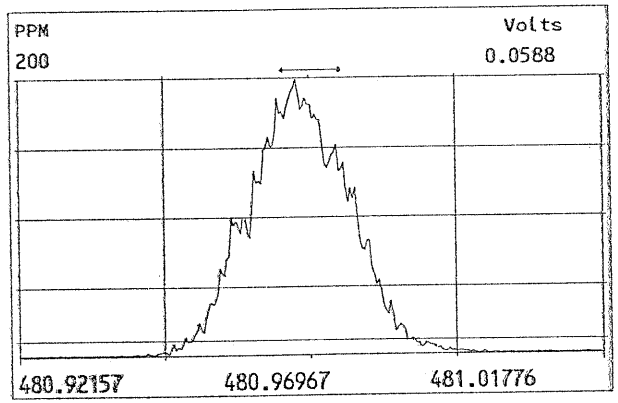


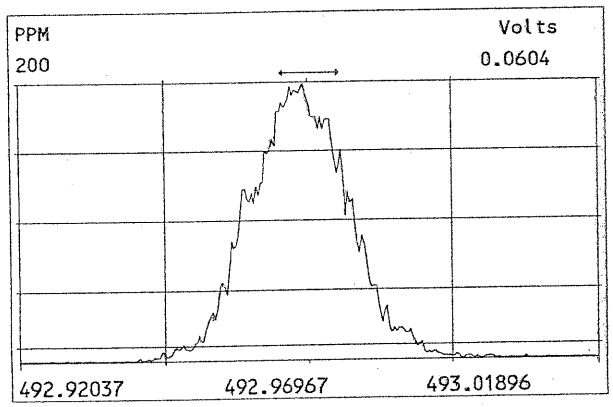


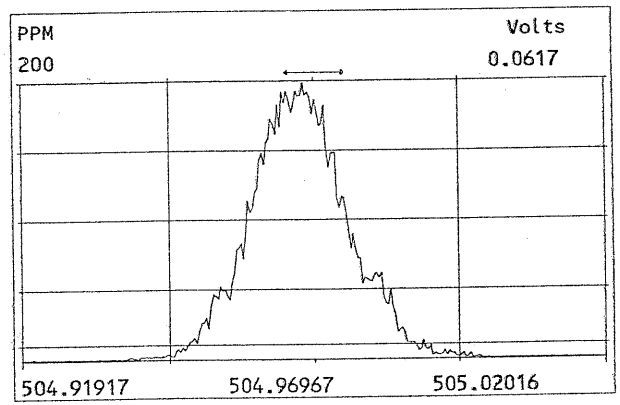


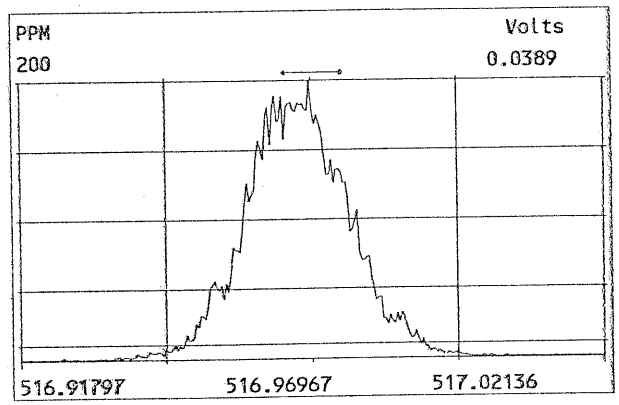




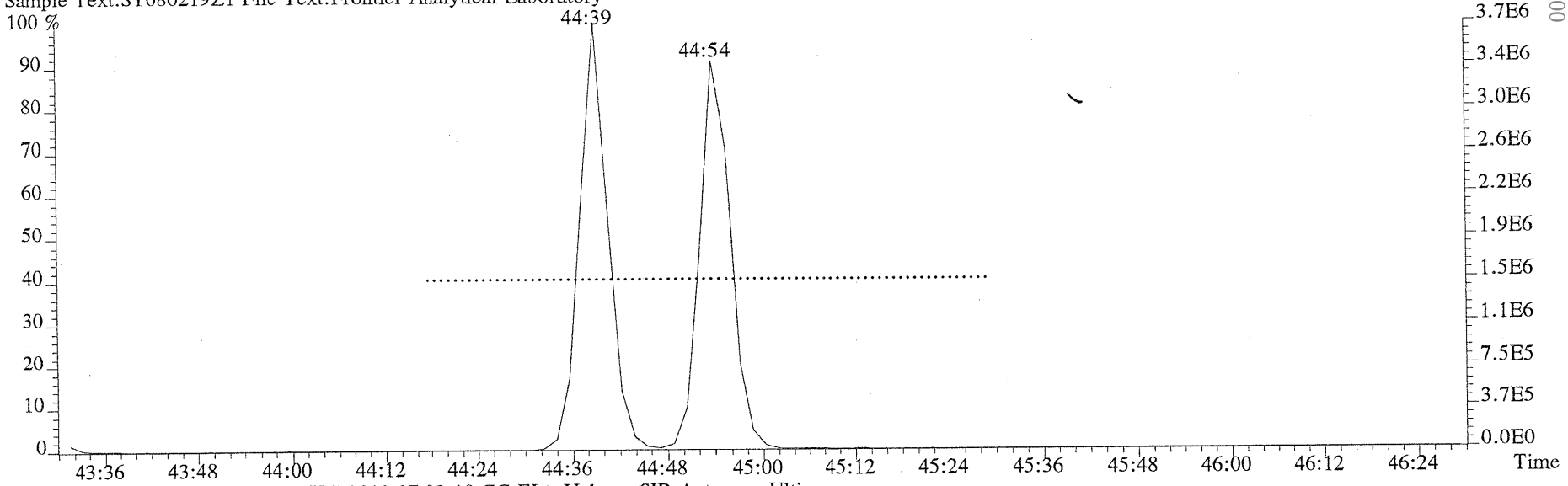




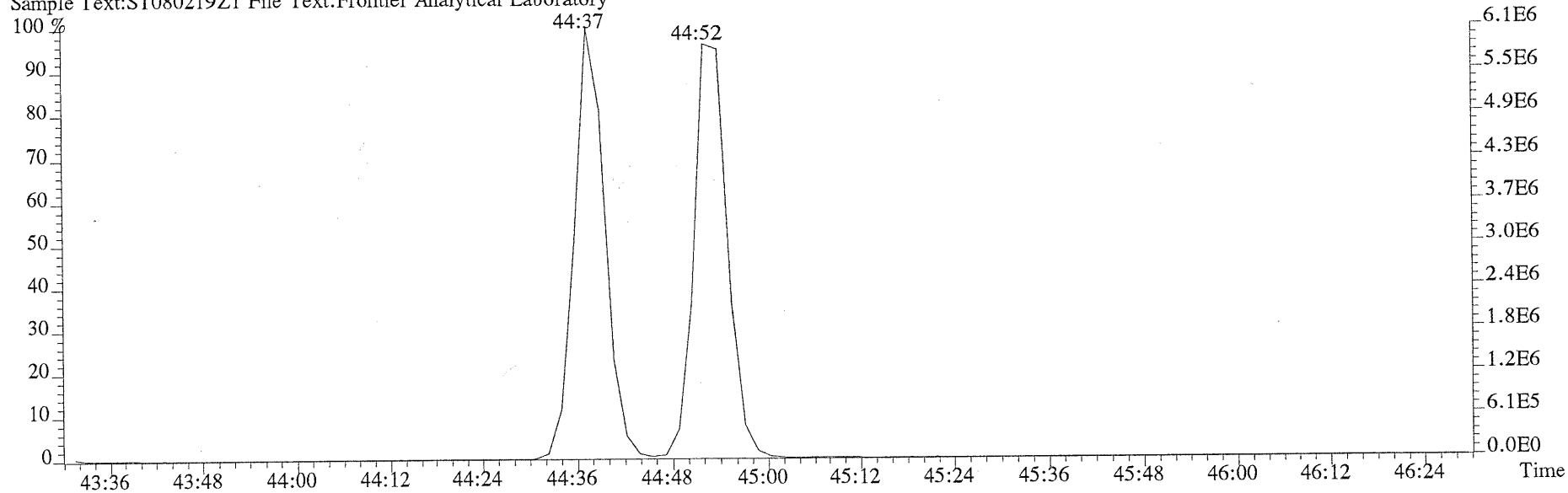




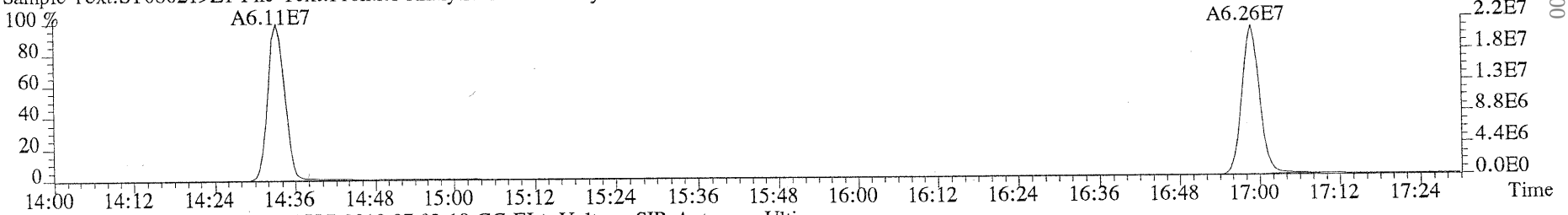
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



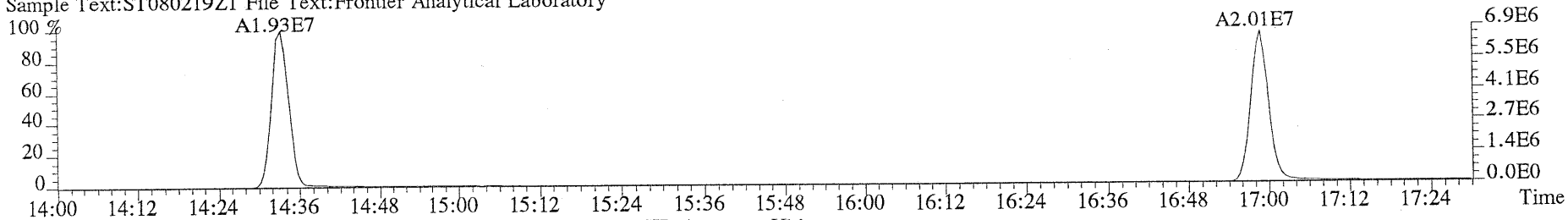
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



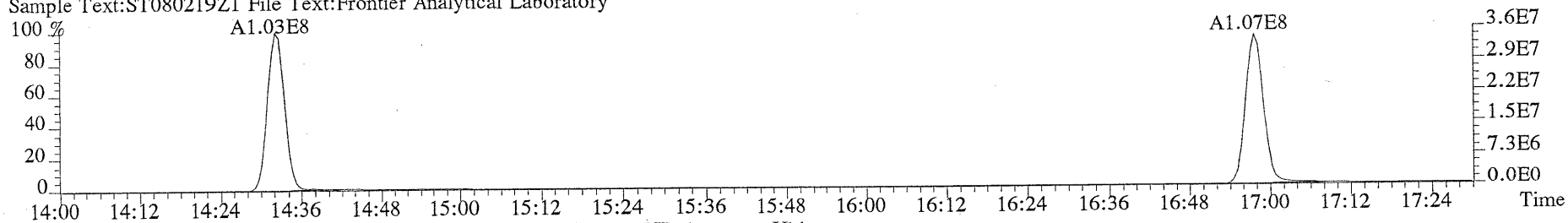
File:02AUG19Z #1-784 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



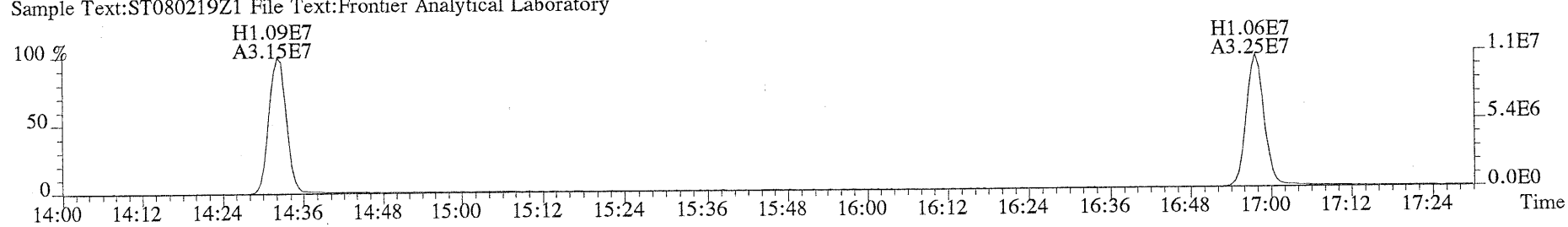
File:02AUG19Z #1-784 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



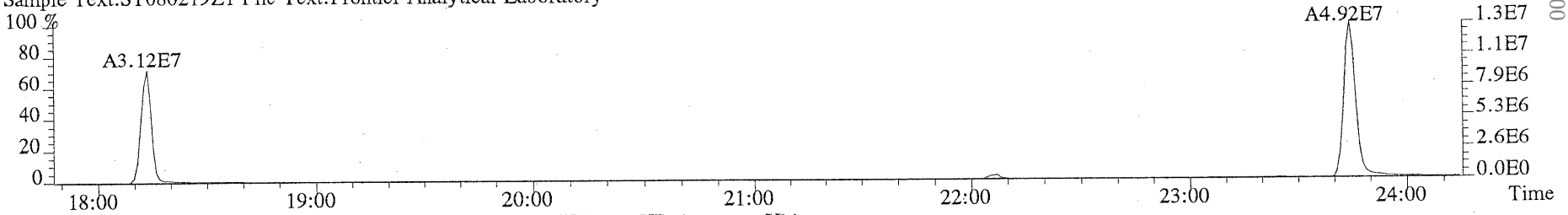
File:02AUG19Z #1-784 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



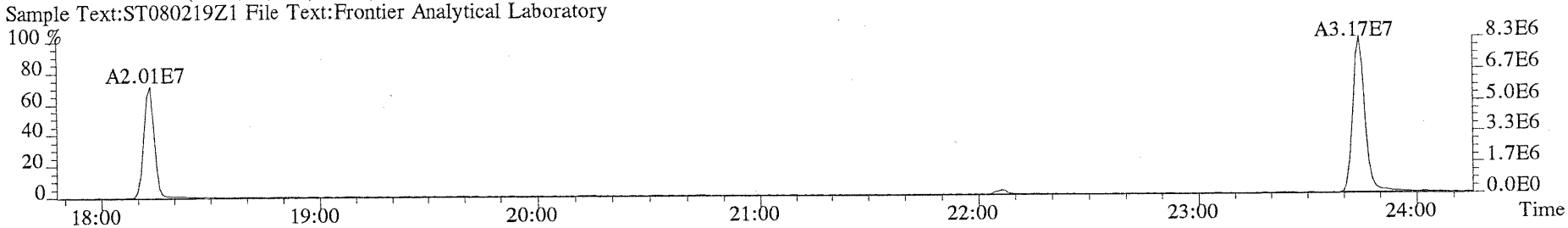
File:02AUG19Z #1-784 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



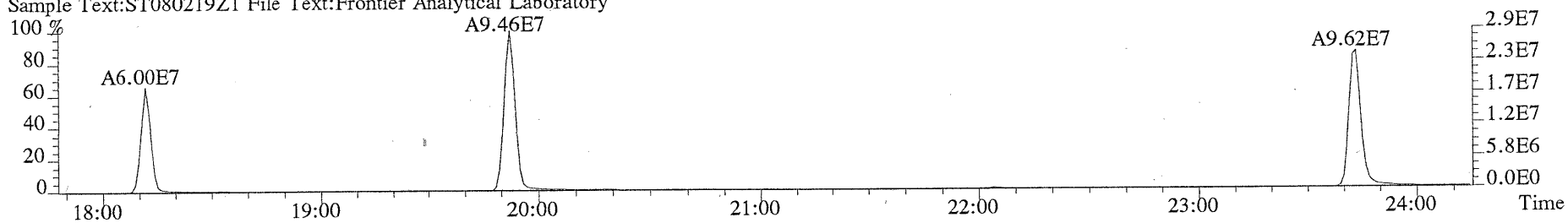
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



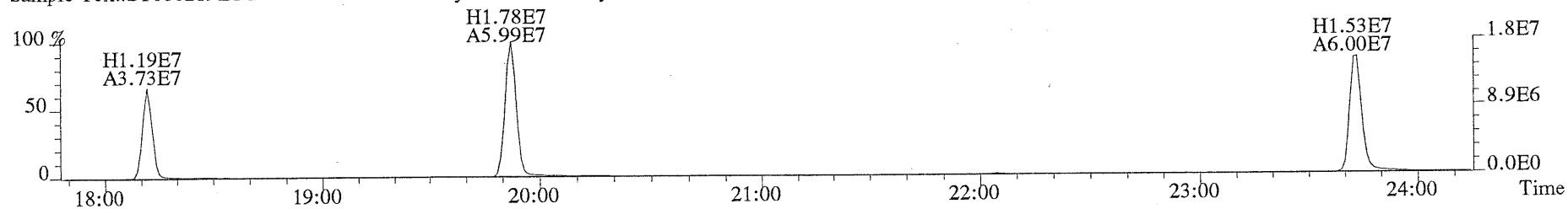
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
223.9975 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



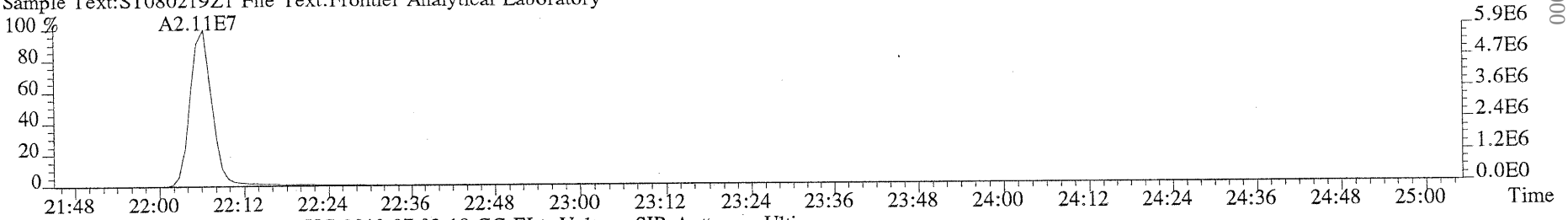
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



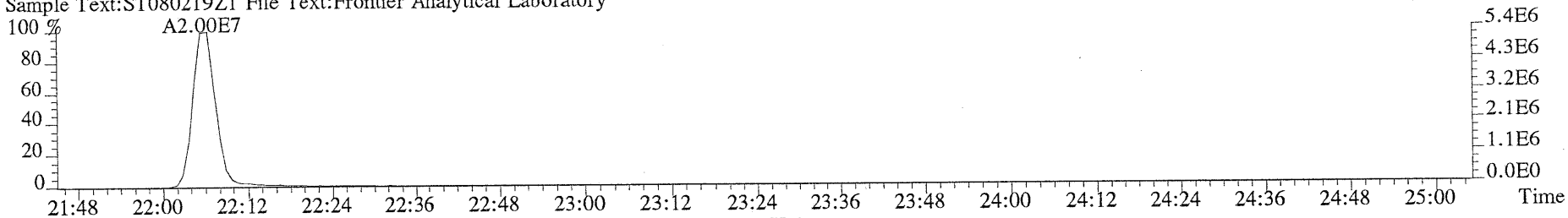
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



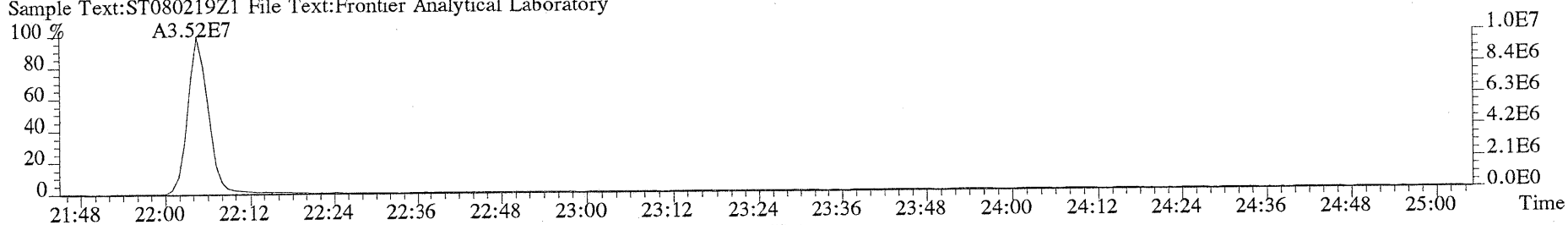
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



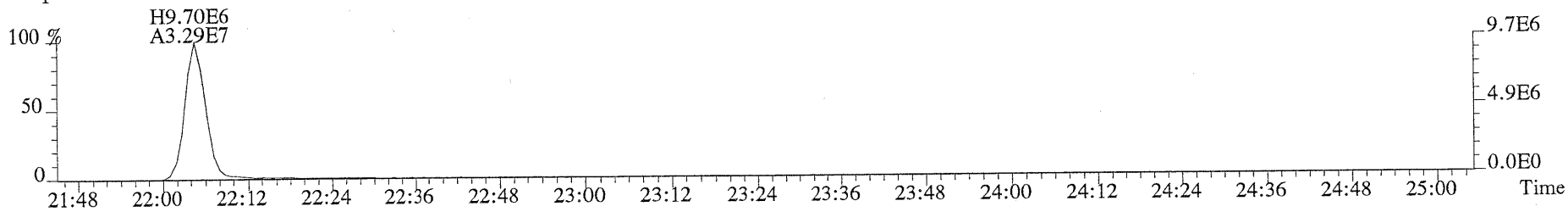
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



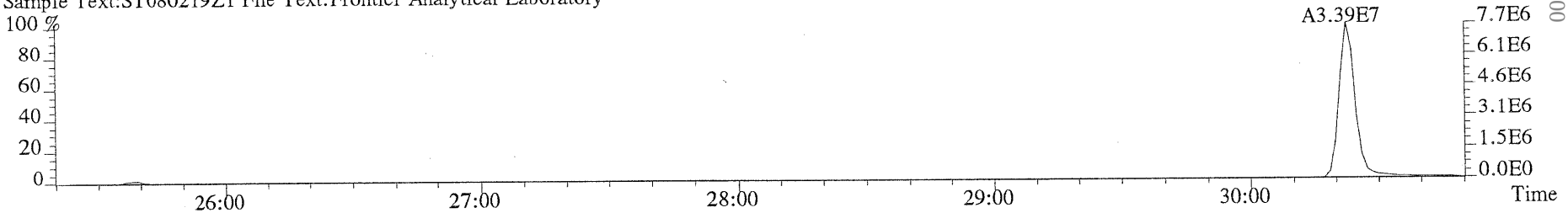
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



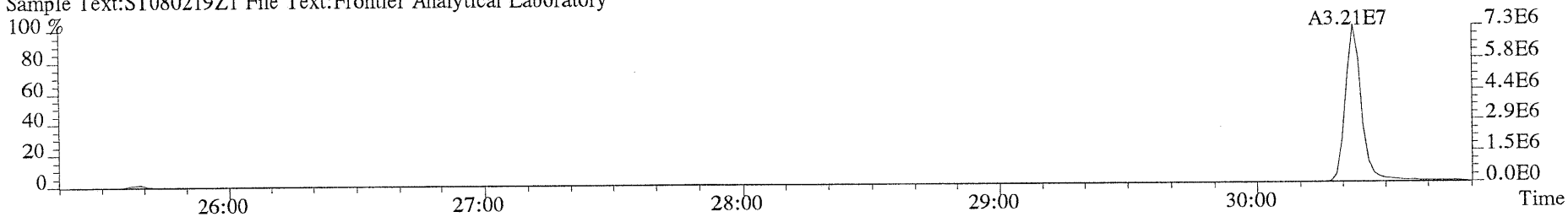
File:02AUG19Z #1-520 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



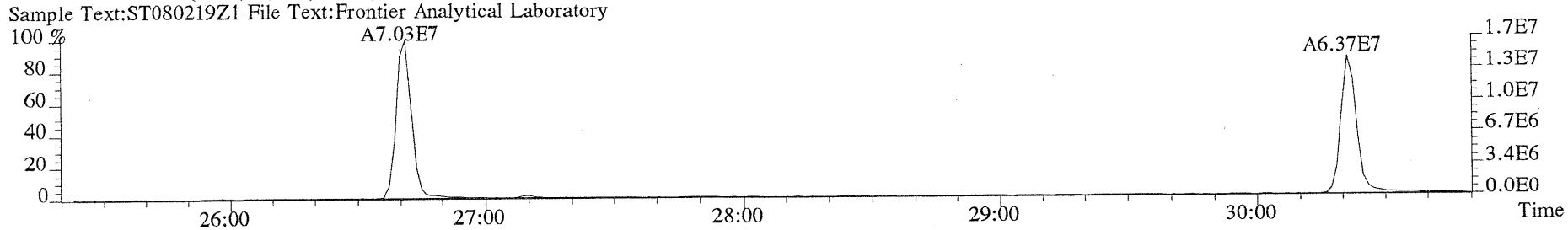
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



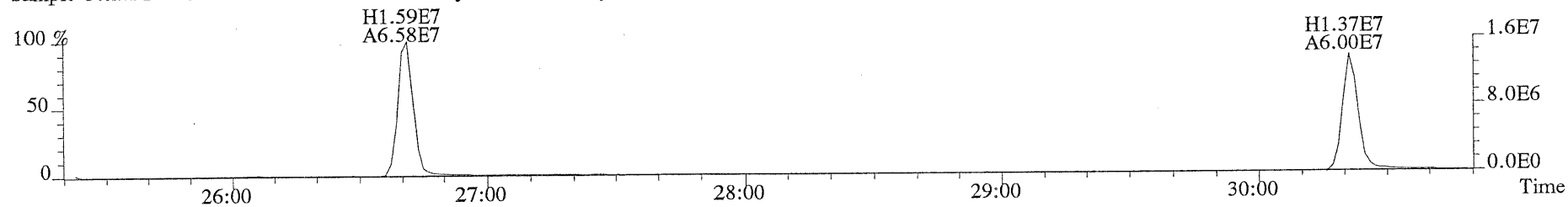
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



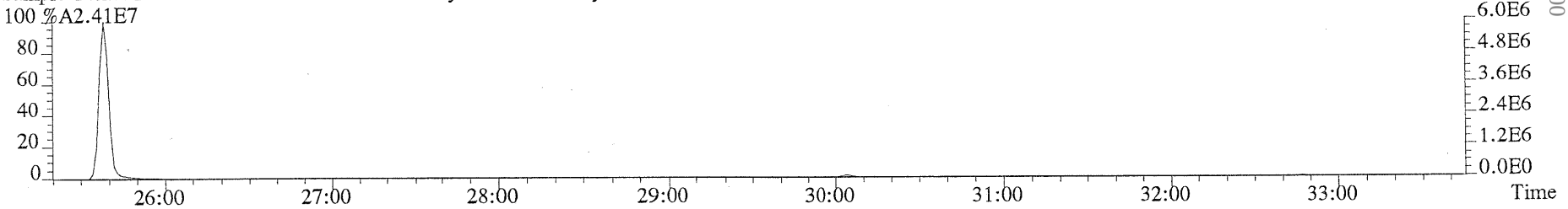
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



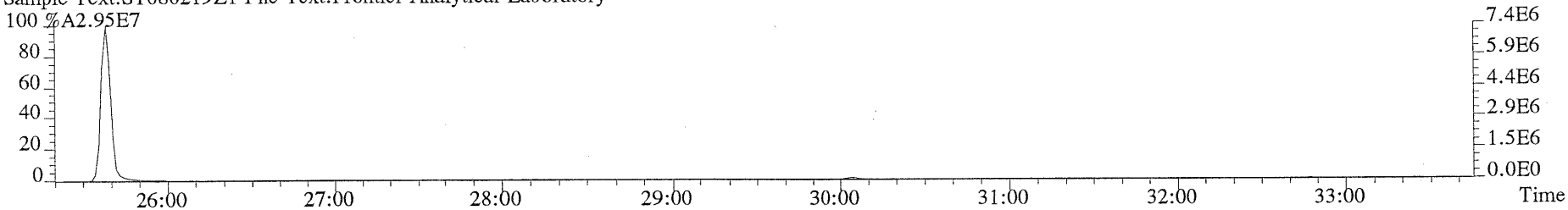
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



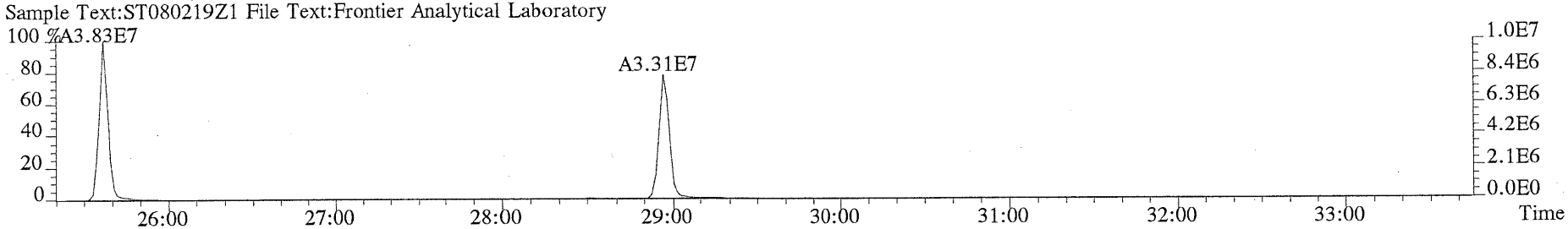
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



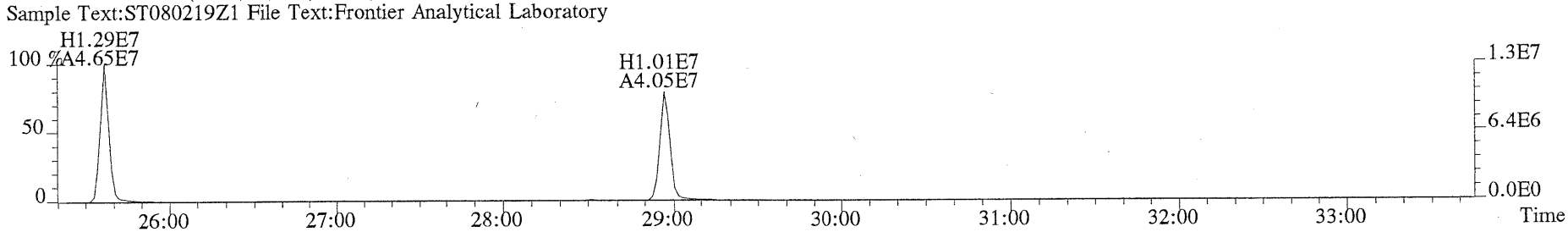
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



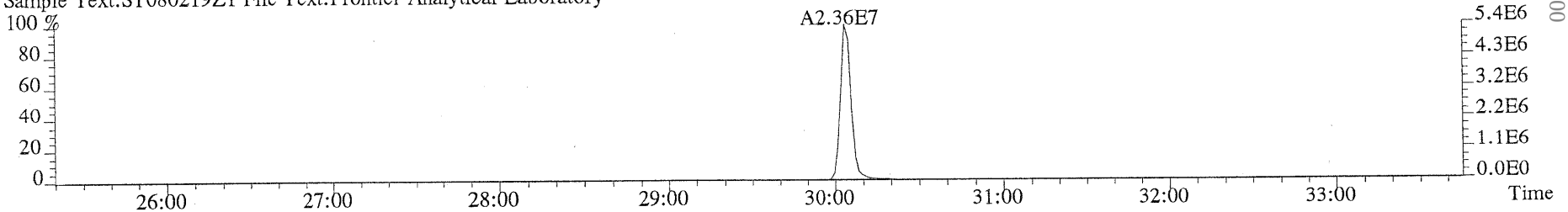
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



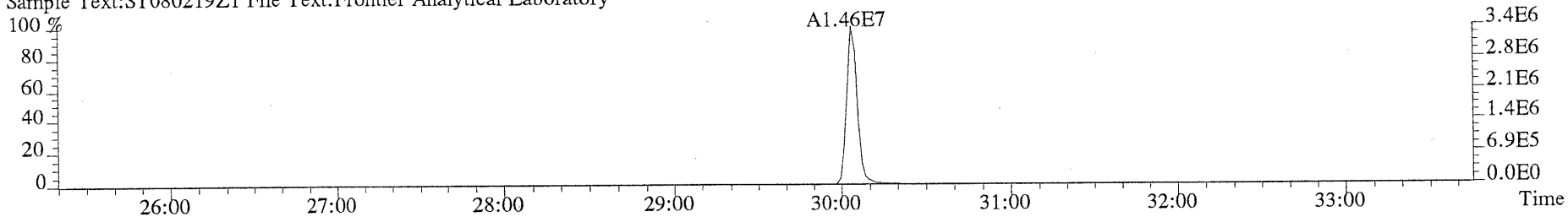
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



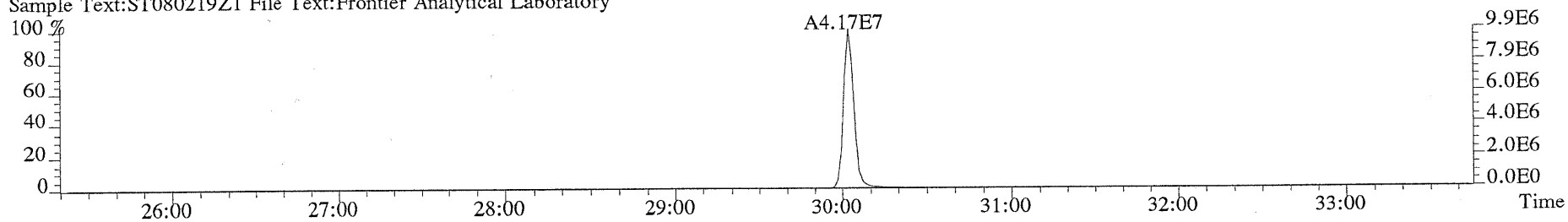
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



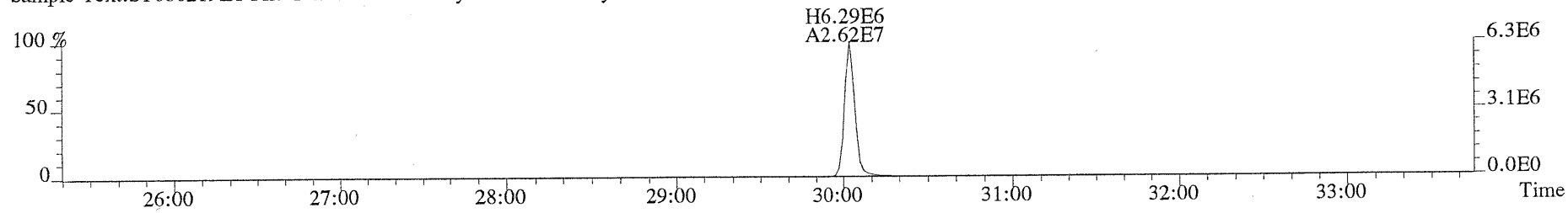
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



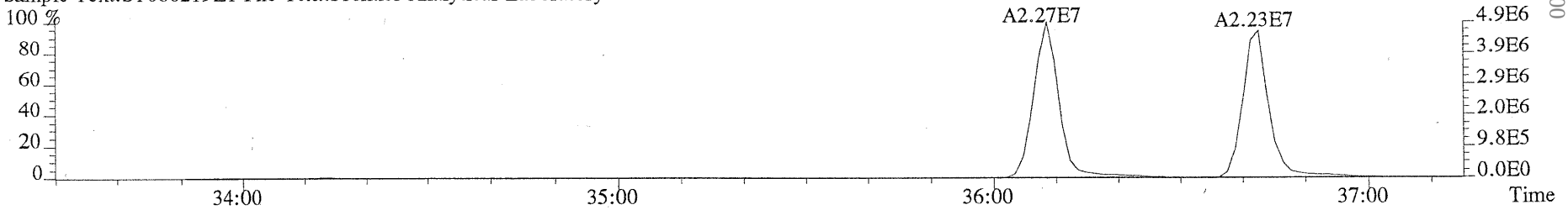
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



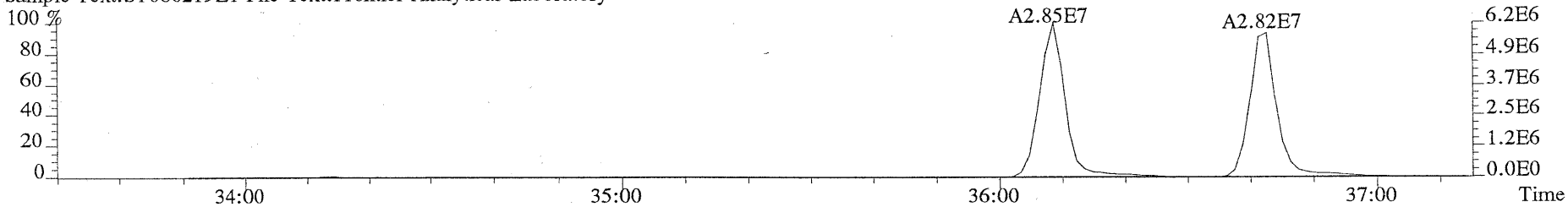
File:02AUG19Z #1-401 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



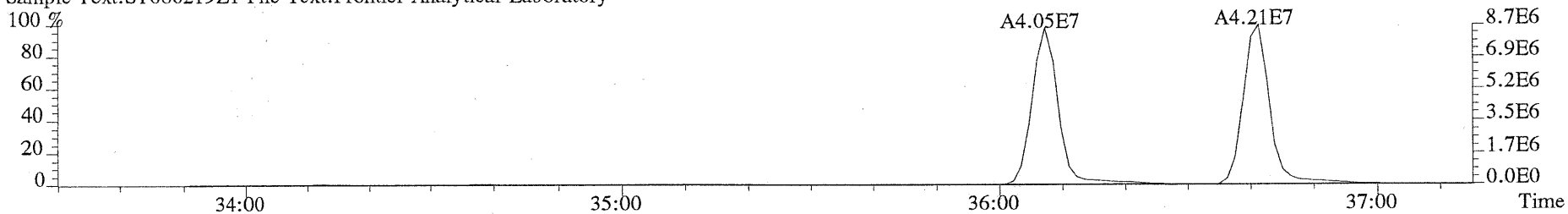
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



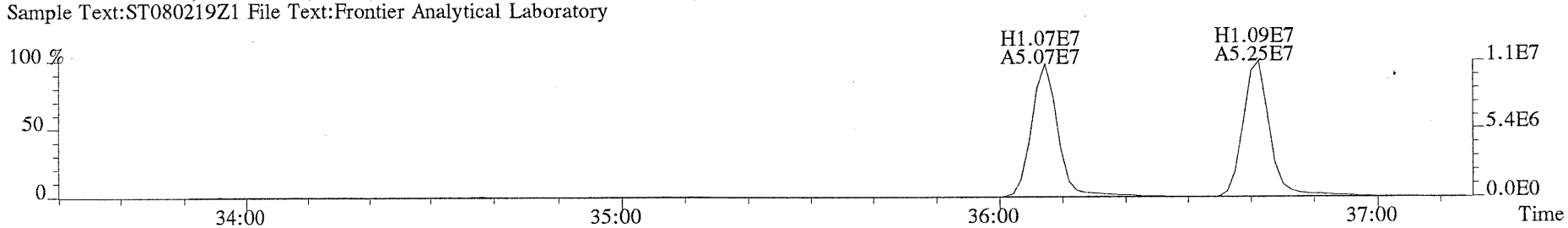
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



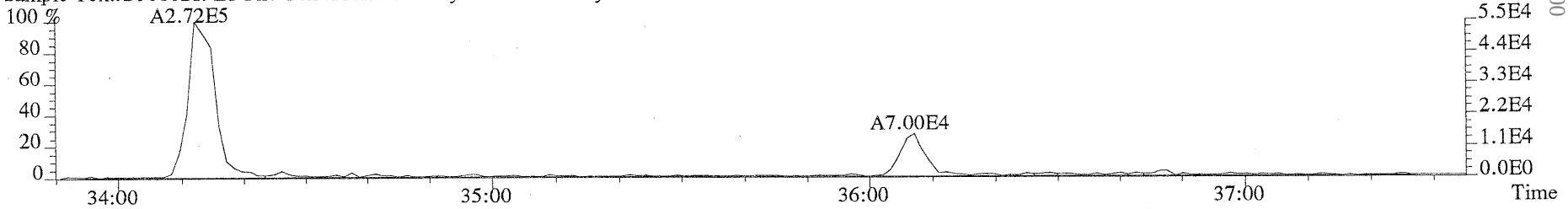
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



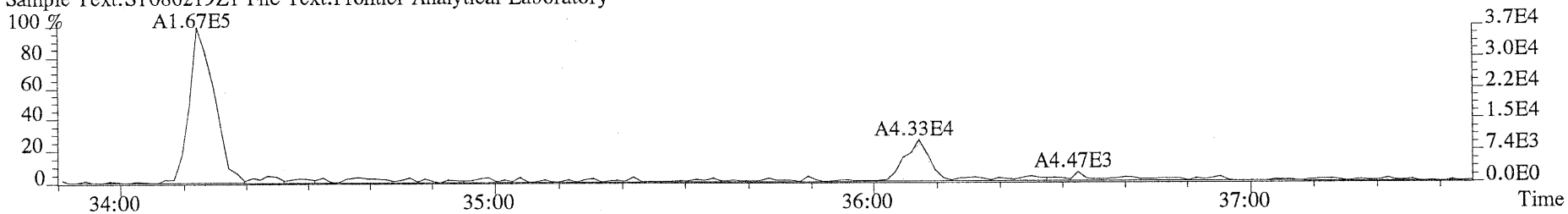
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



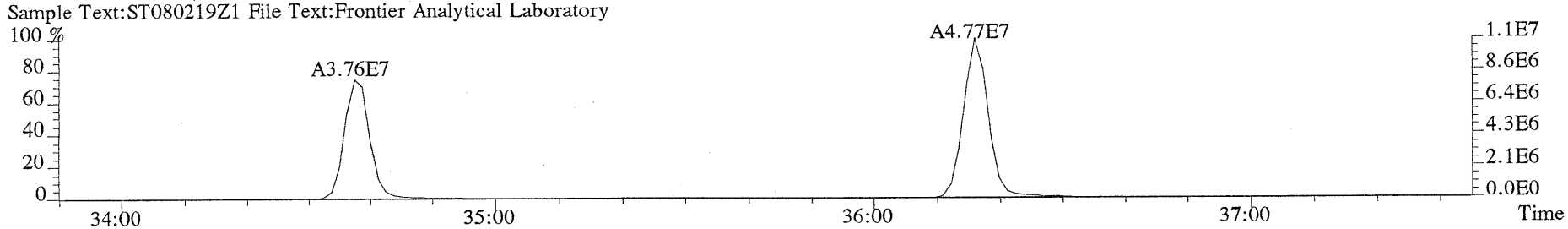
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



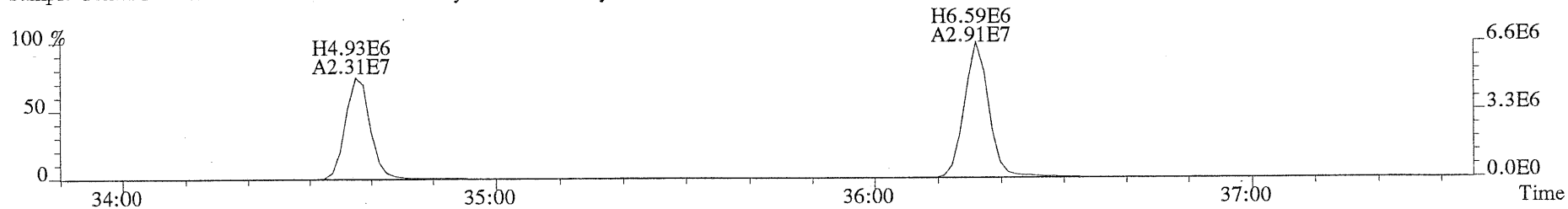
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



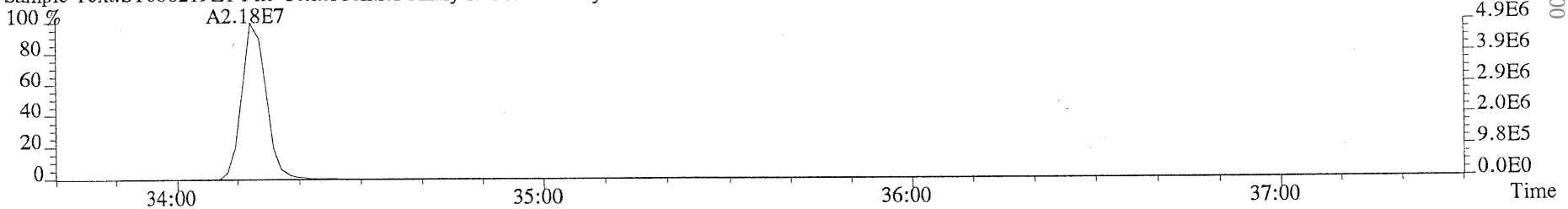
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



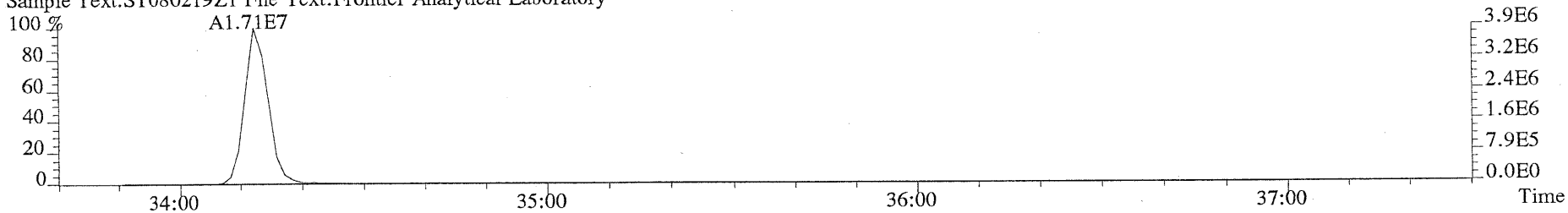
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



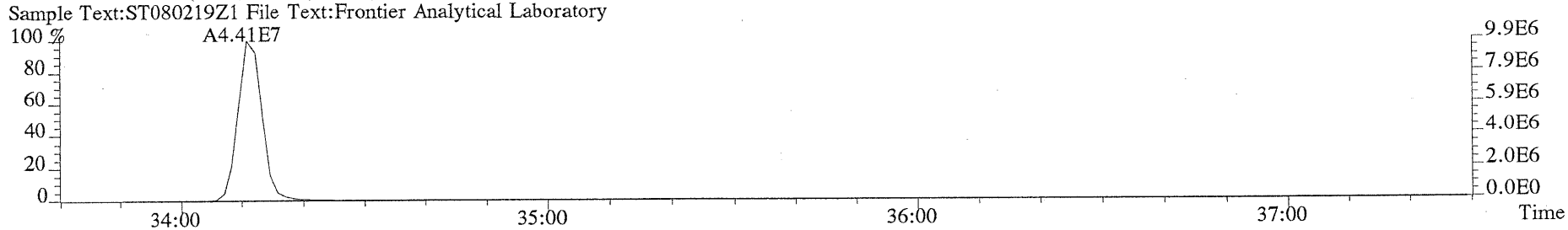
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



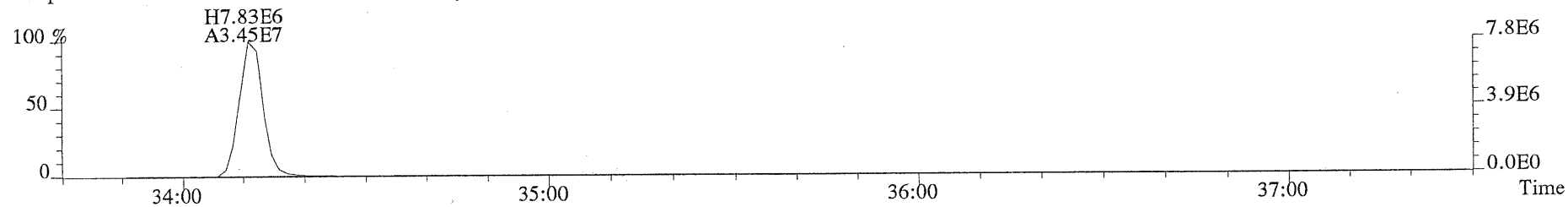
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



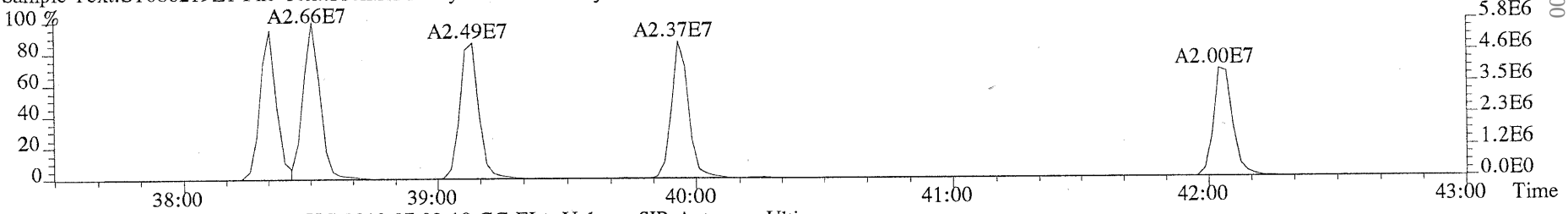
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



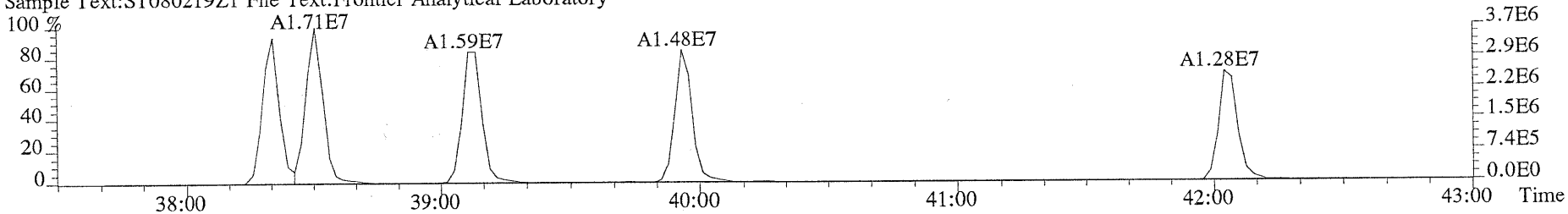
File:02AUG19Z #1-181 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



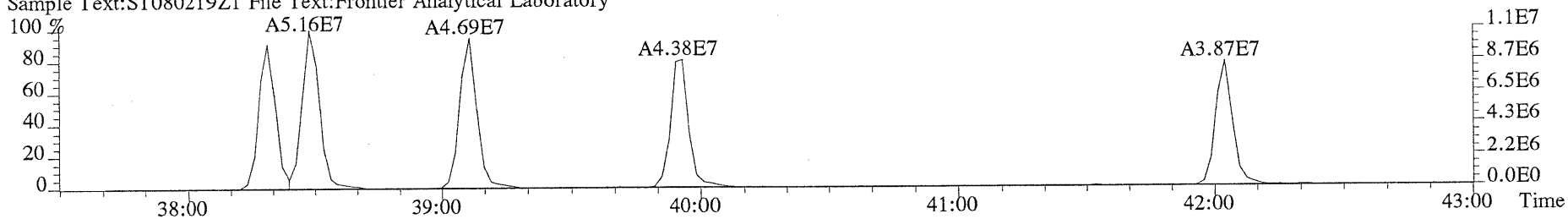
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



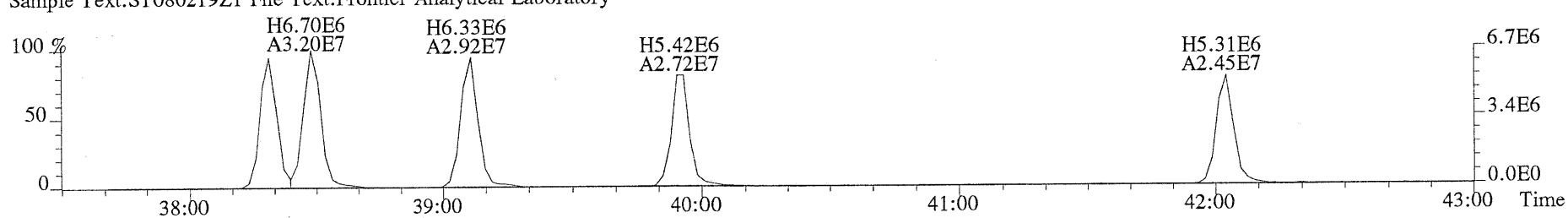
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



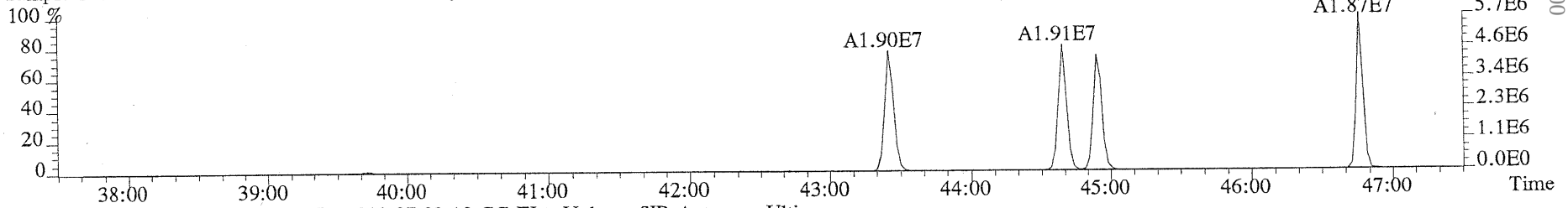
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



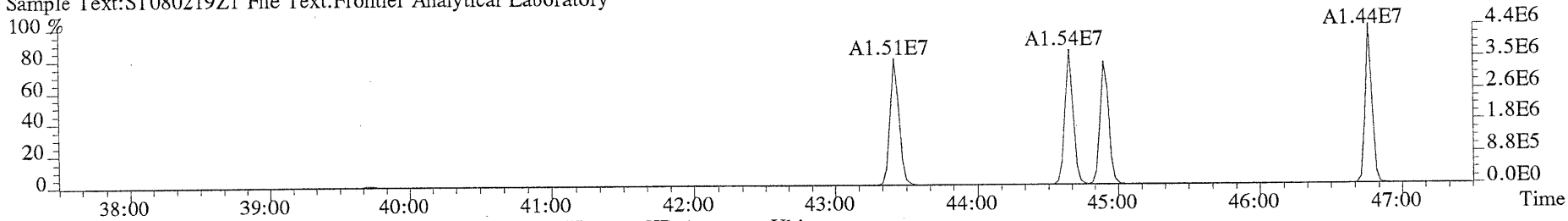
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



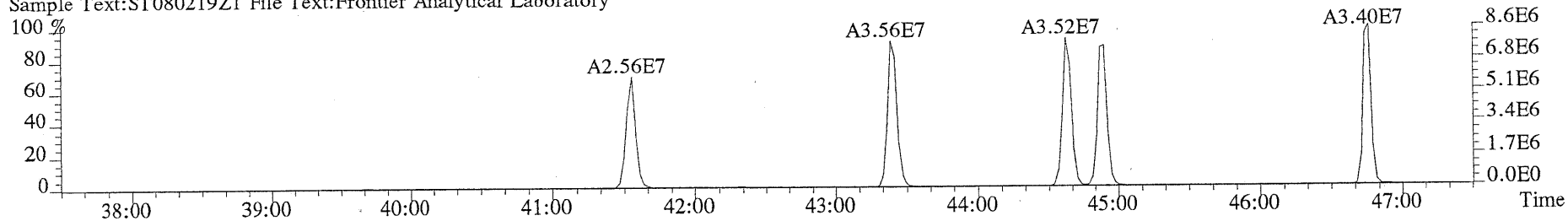
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



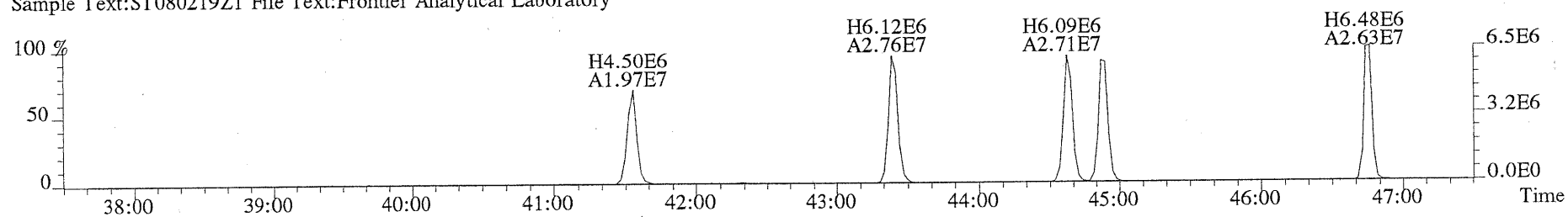
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



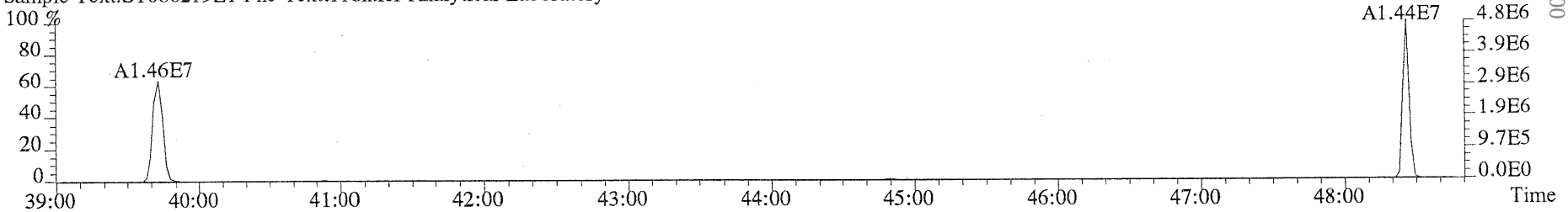
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



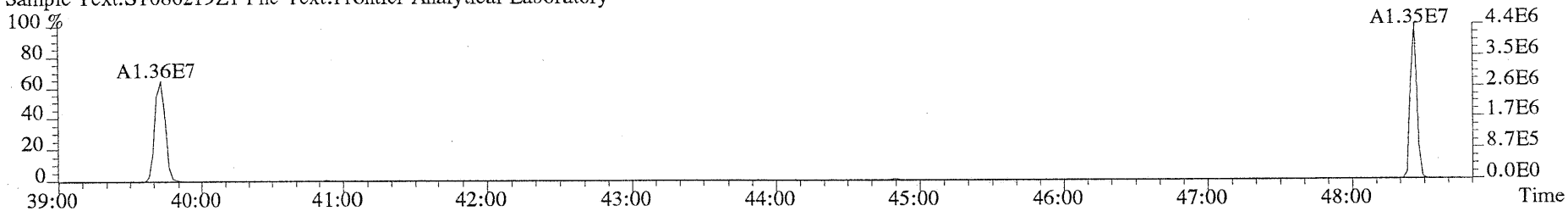
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



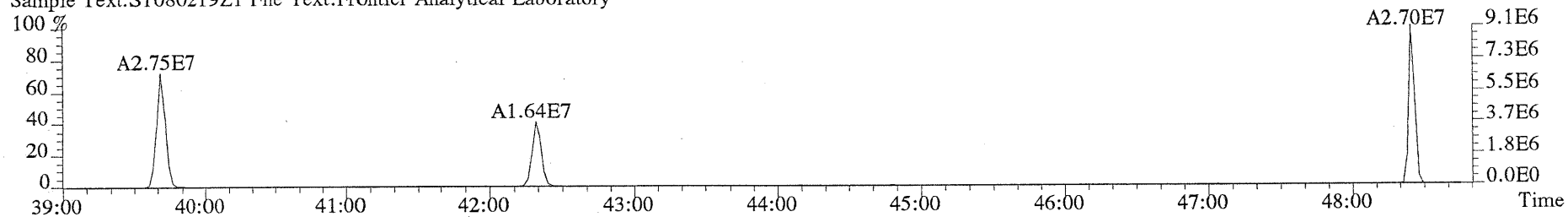
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



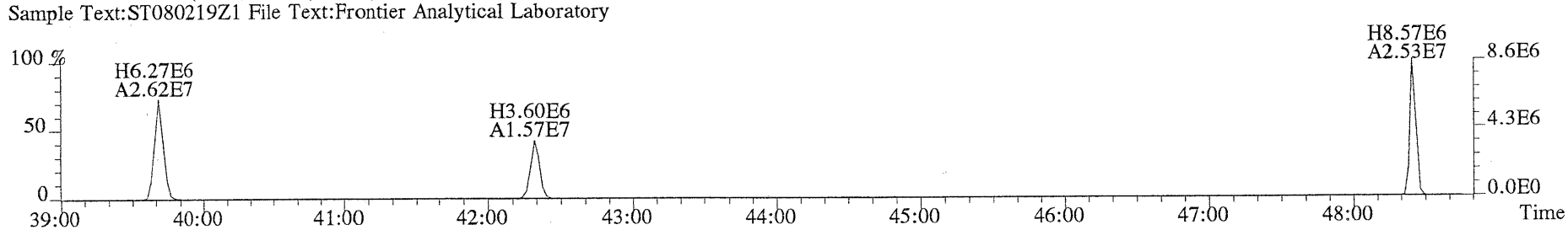
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



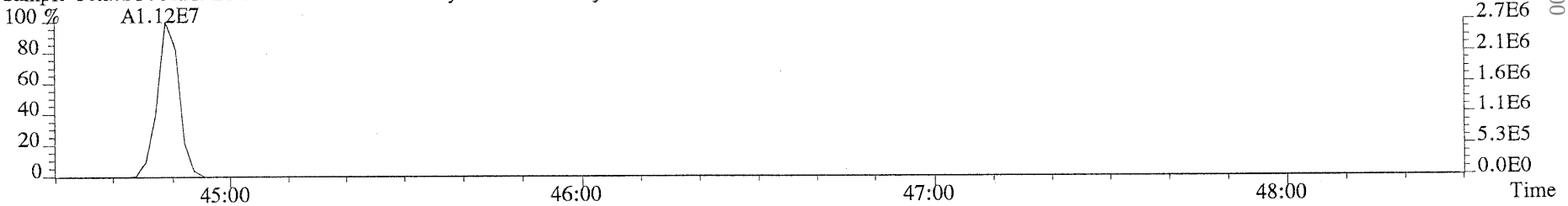
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



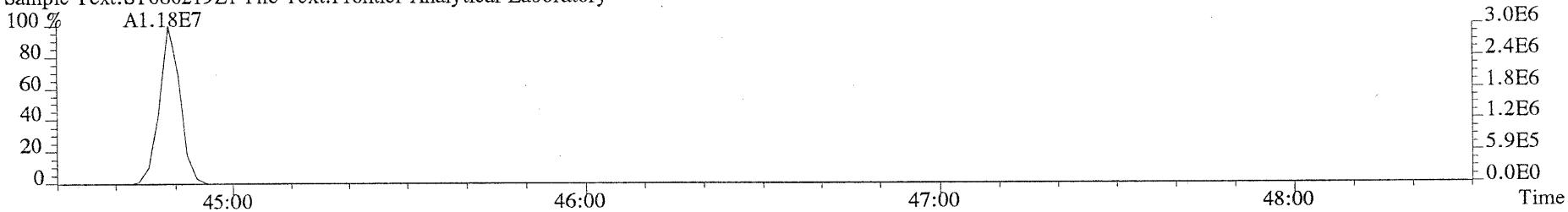
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



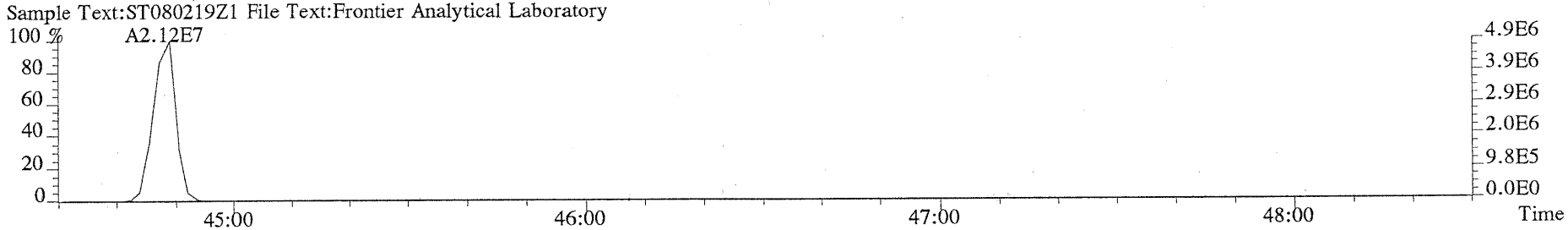
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



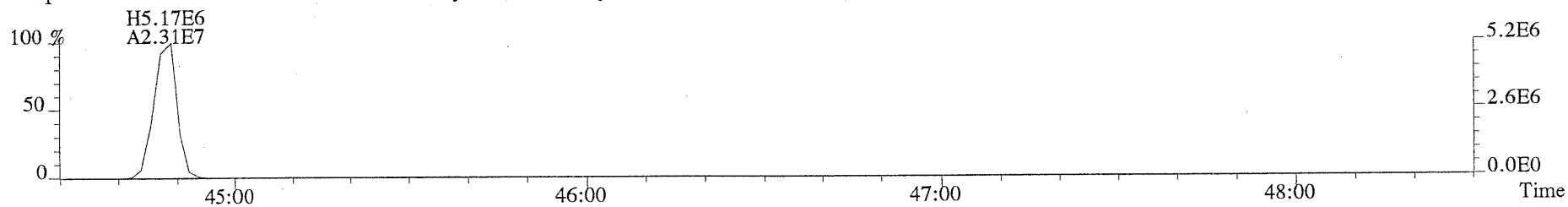
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



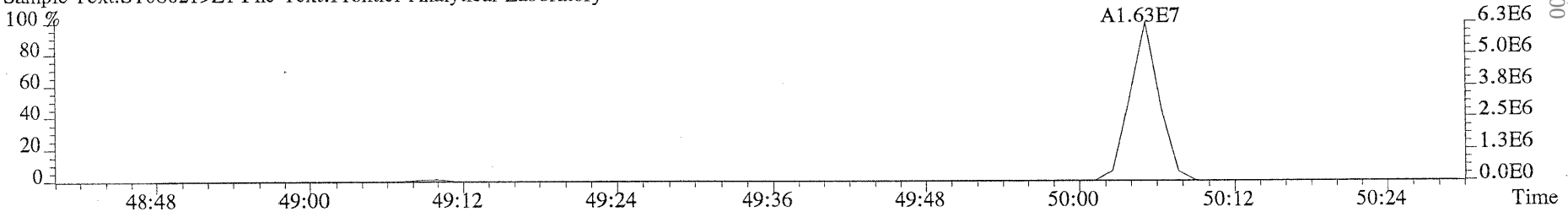
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



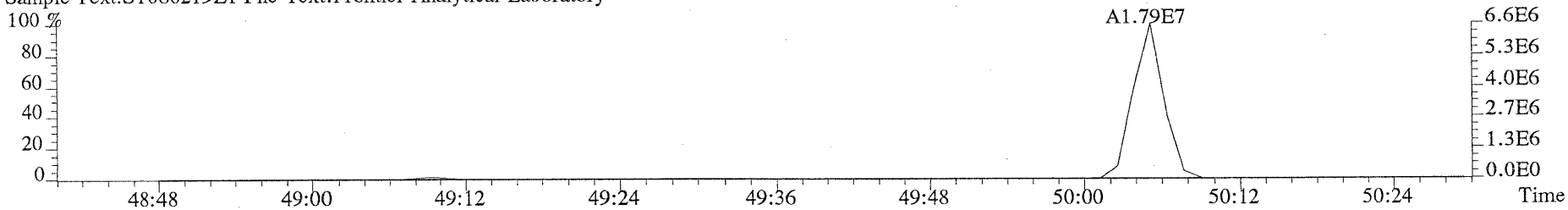
File:02AUG19Z #1-405 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



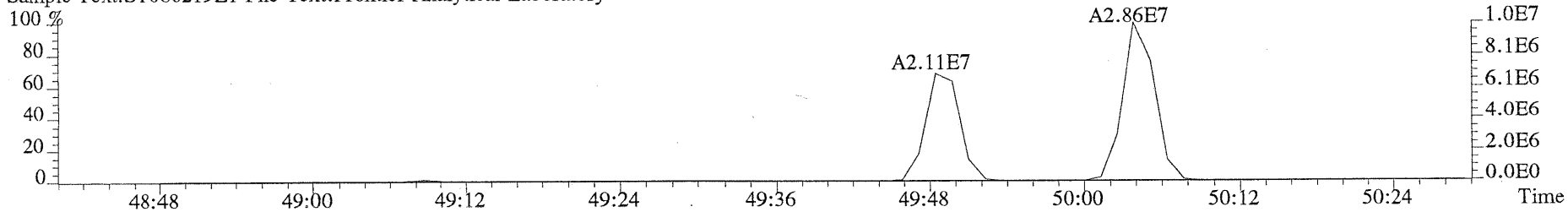
File:02AUG19Z #1-274 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



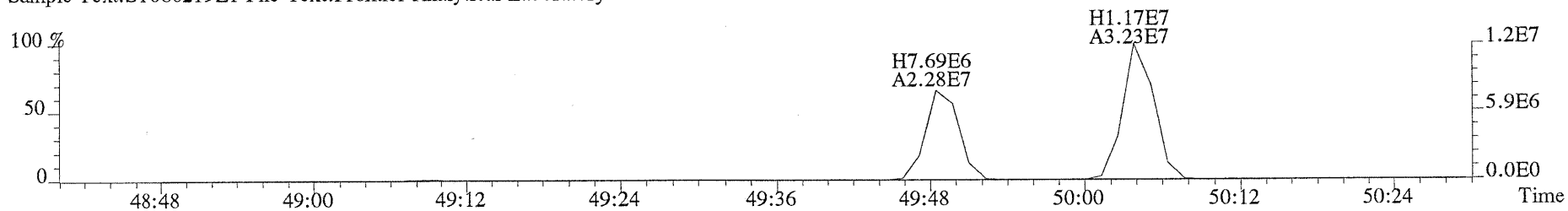
File:02AUG19Z #1-274 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



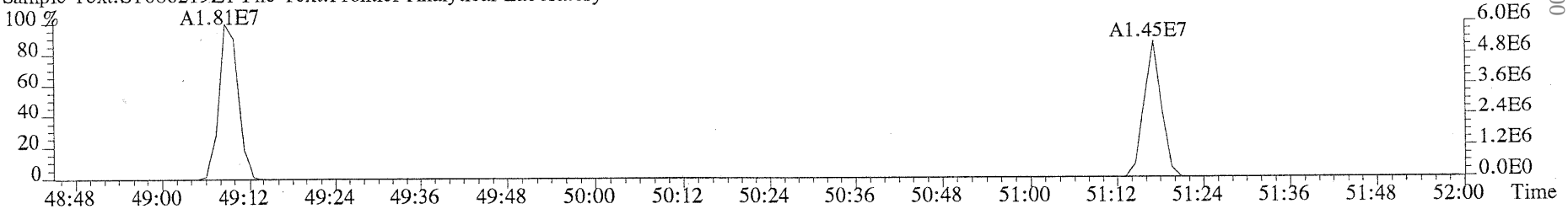
File:02AUG19Z #1-274 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



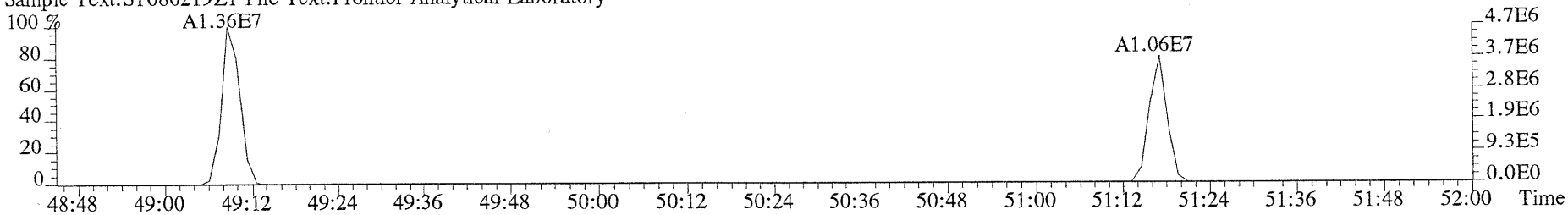
File:02AUG19Z #1-274 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



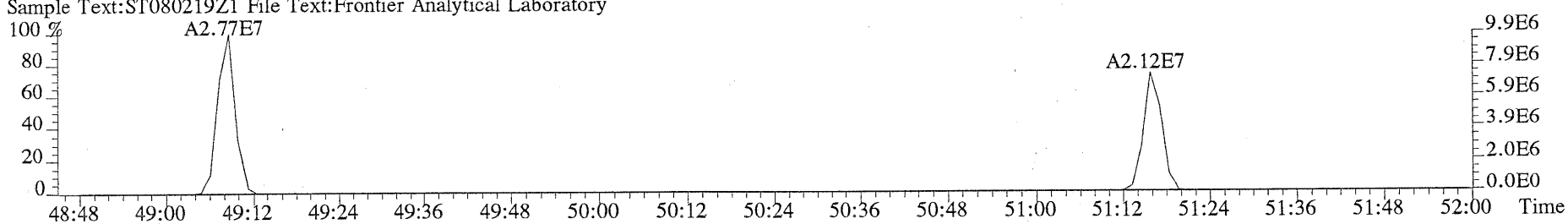
File:02AUG19Z #1-275 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



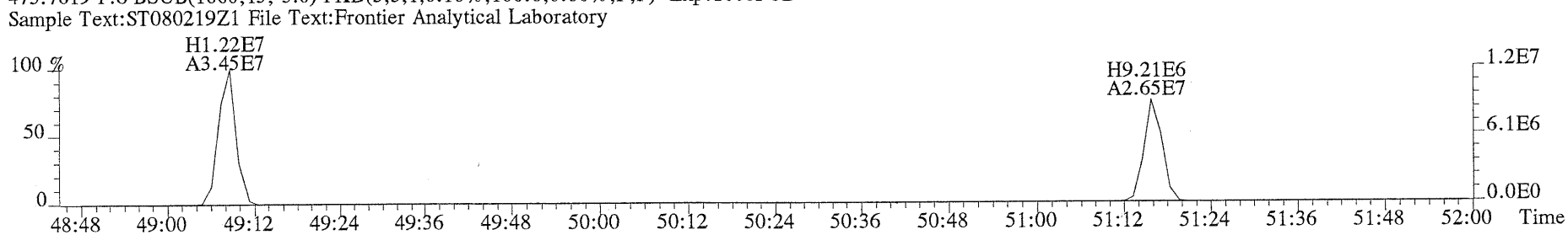
File:02AUG19Z #1-275 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



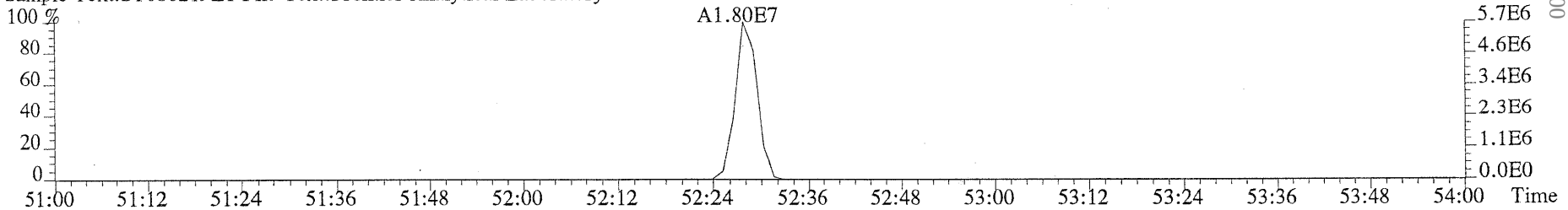
File:02AUG19Z #1-275 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



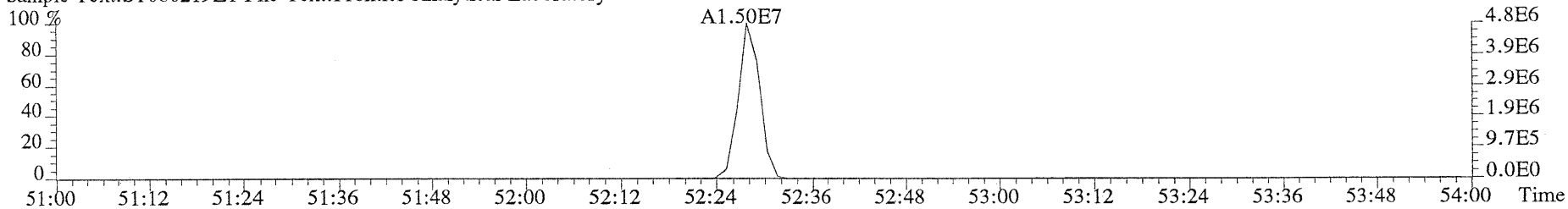
File:02AUG19Z #1-275 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



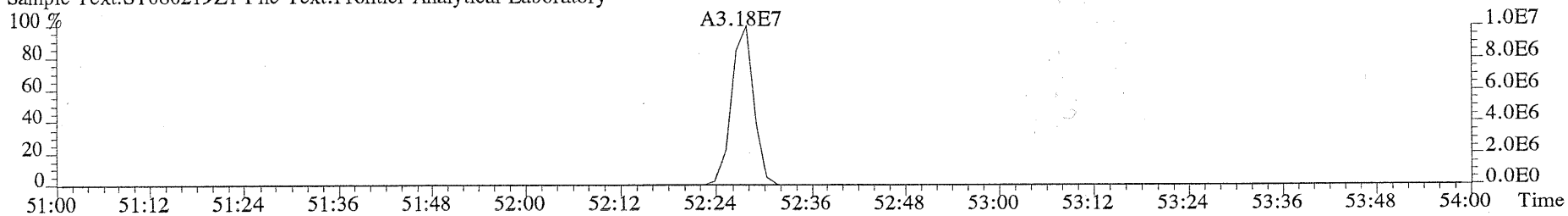
File:02AUG19Z #1-276 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



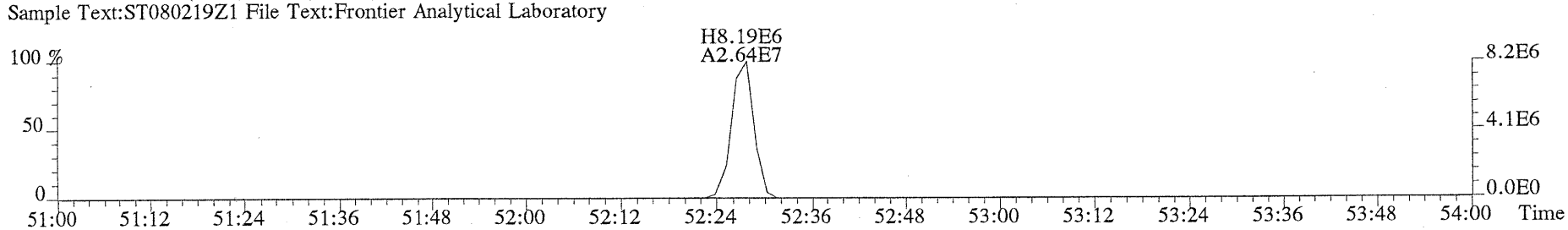
File:02AUG19Z #1-276 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory



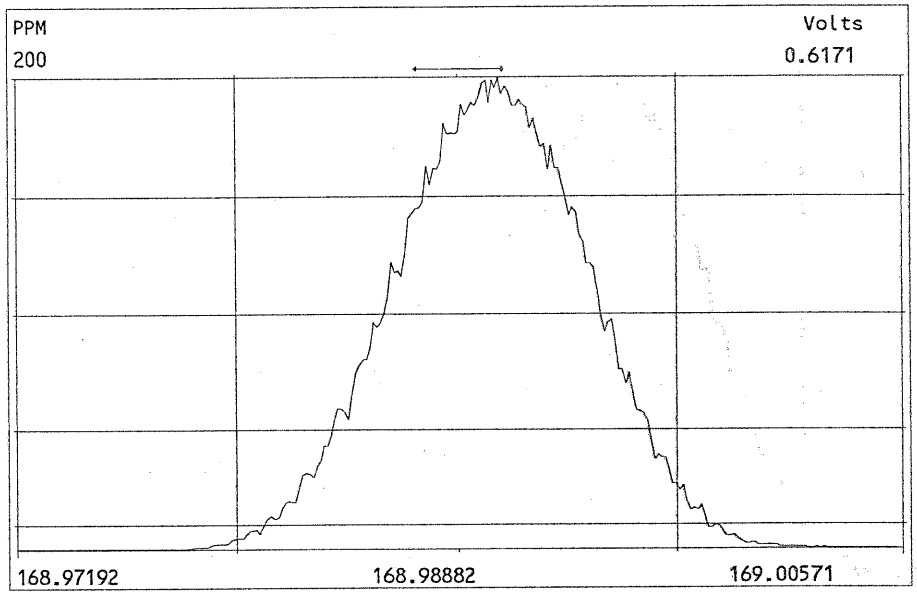
File:02AUG19Z #1-276 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory

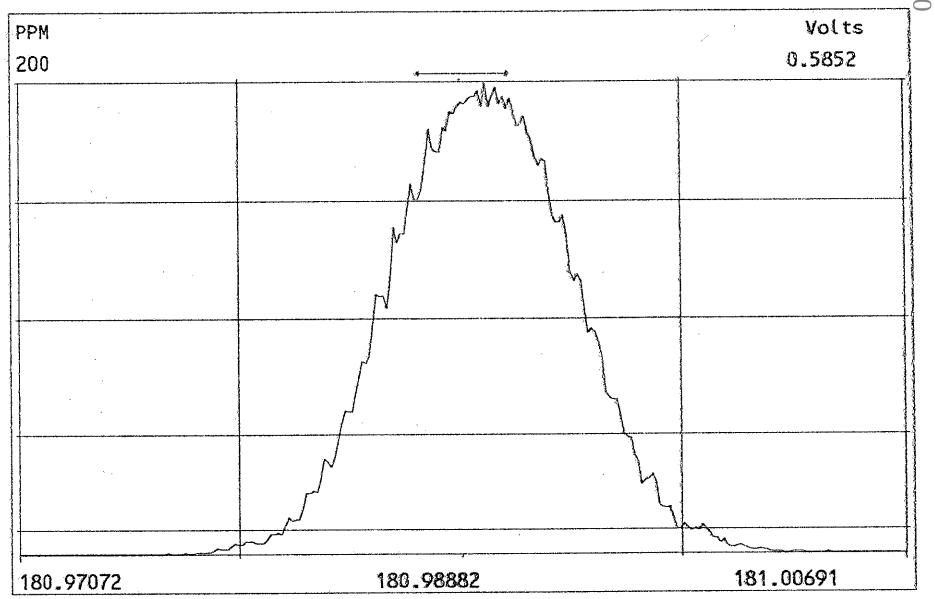


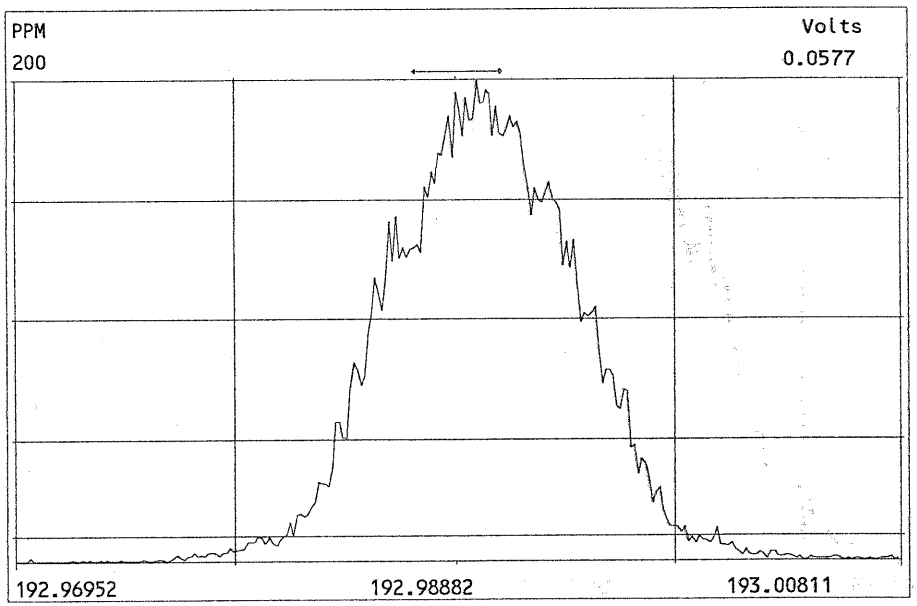
File:02AUG19Z #1-276 Acq: 2-AUG-2019 07:02:18 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z1 File Text:Frontier Analytical Laboratory

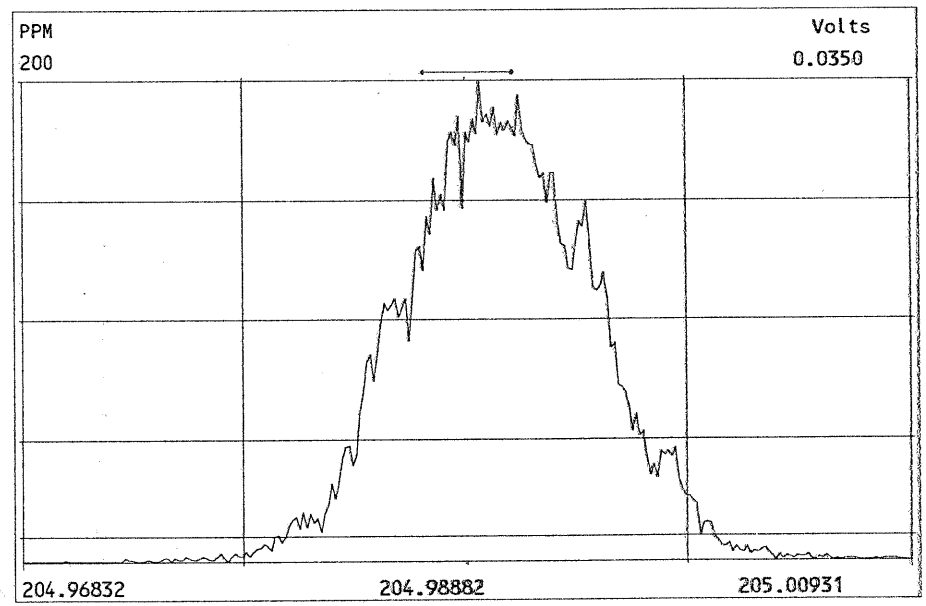


Peak Locate Examination: 2-AUG-2019:23:06 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

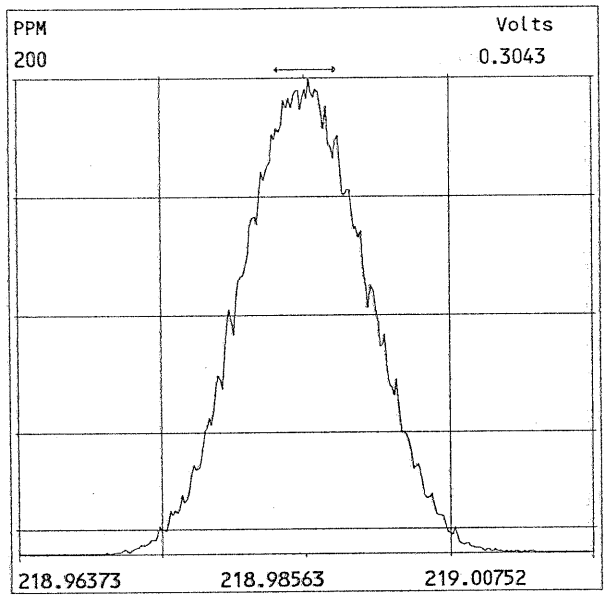


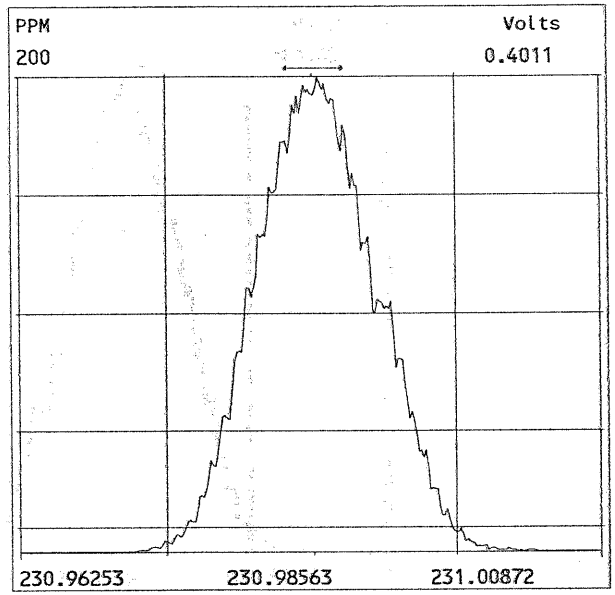


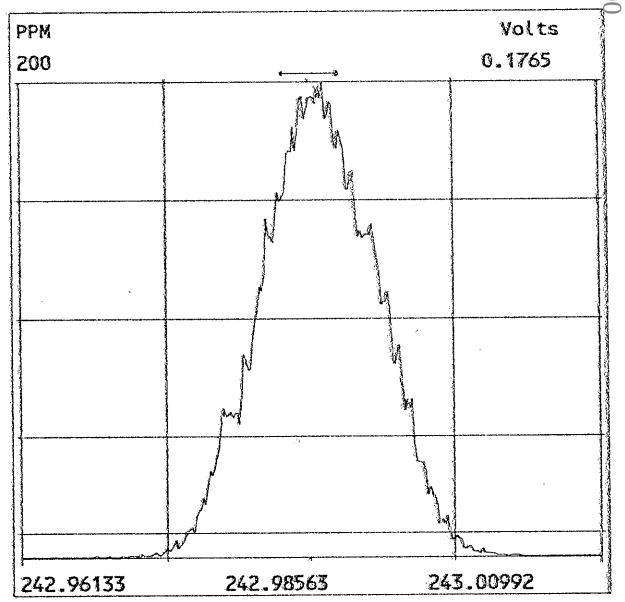


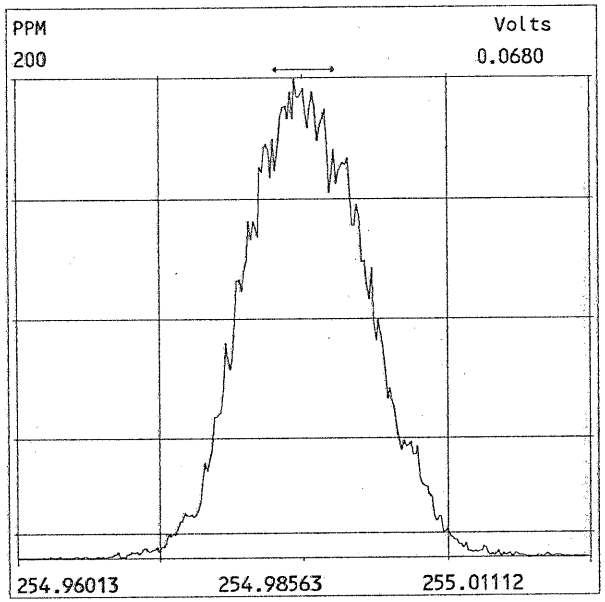


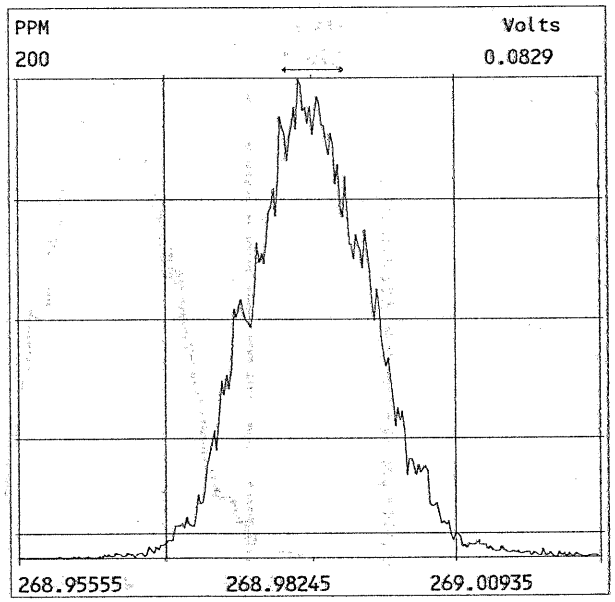
Peak Locate Examination: 2-AUG-2019:23:08 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

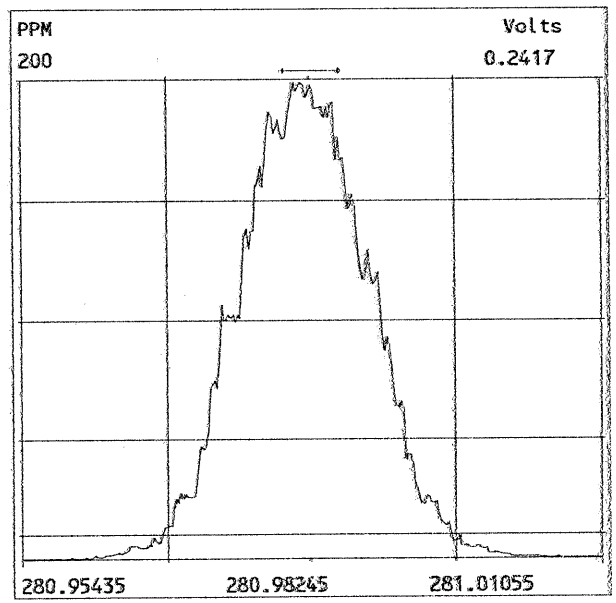




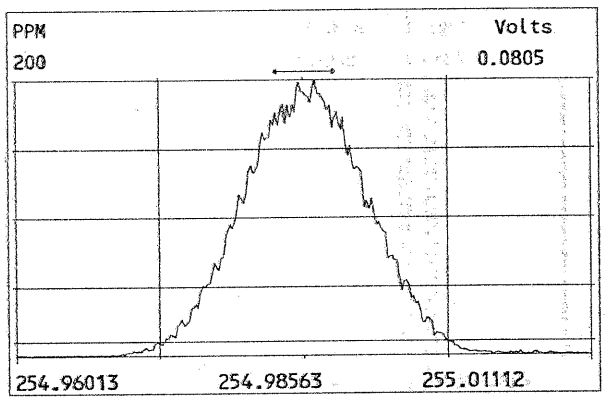


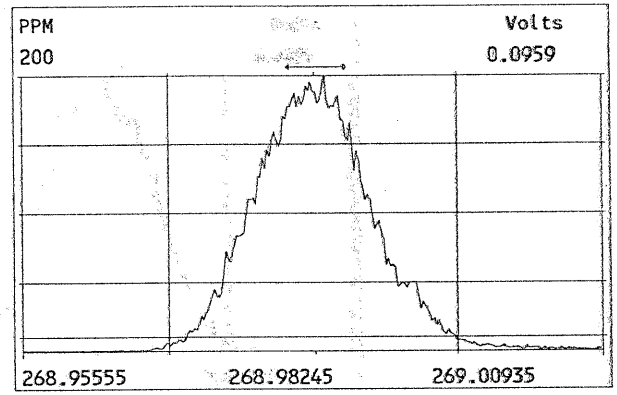


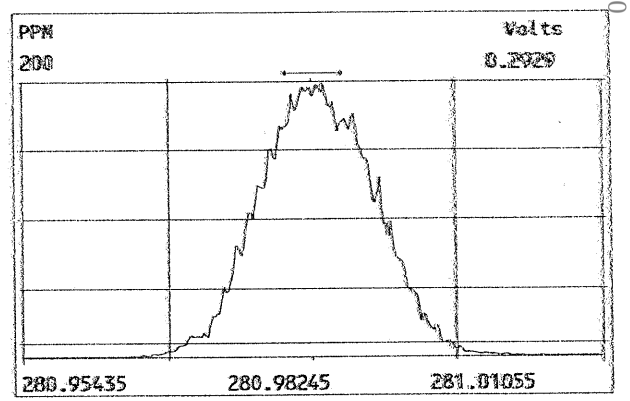


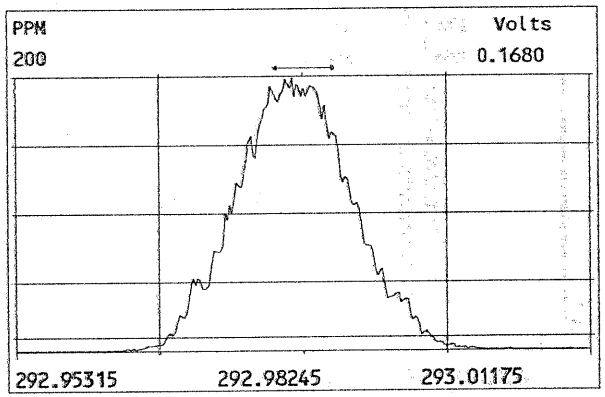


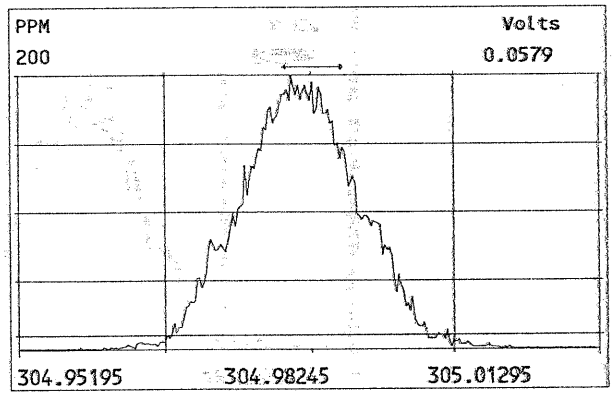
Peak Locate Examination: 2-AUG-2019:23:10 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

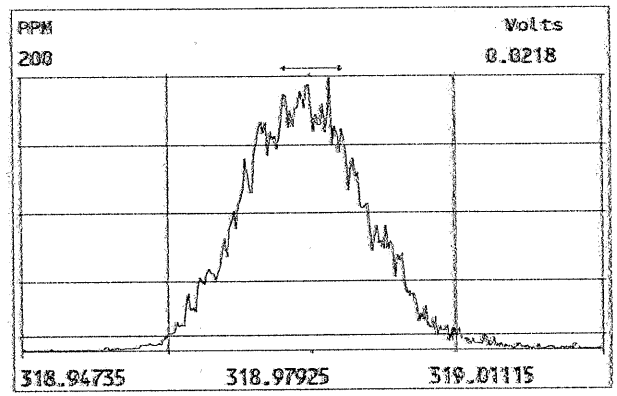


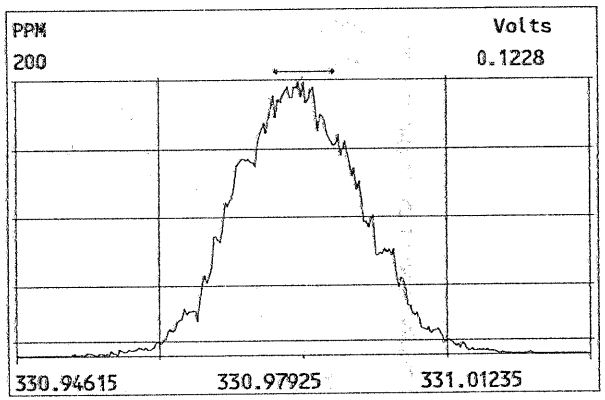


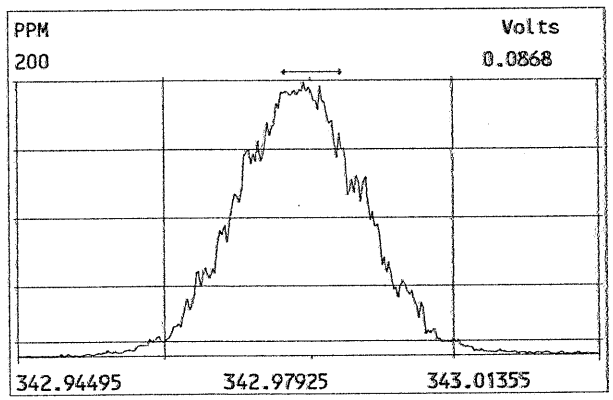






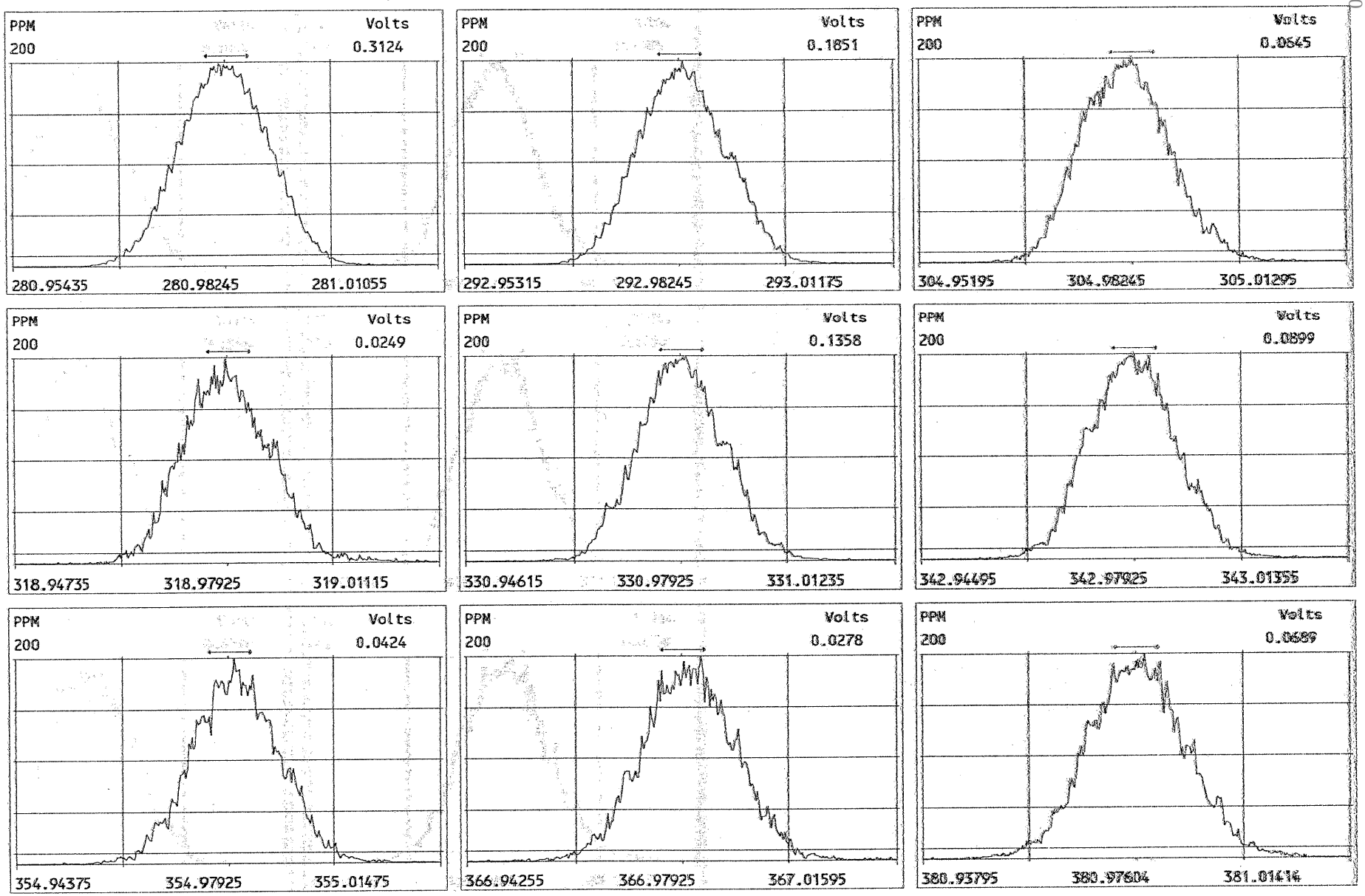






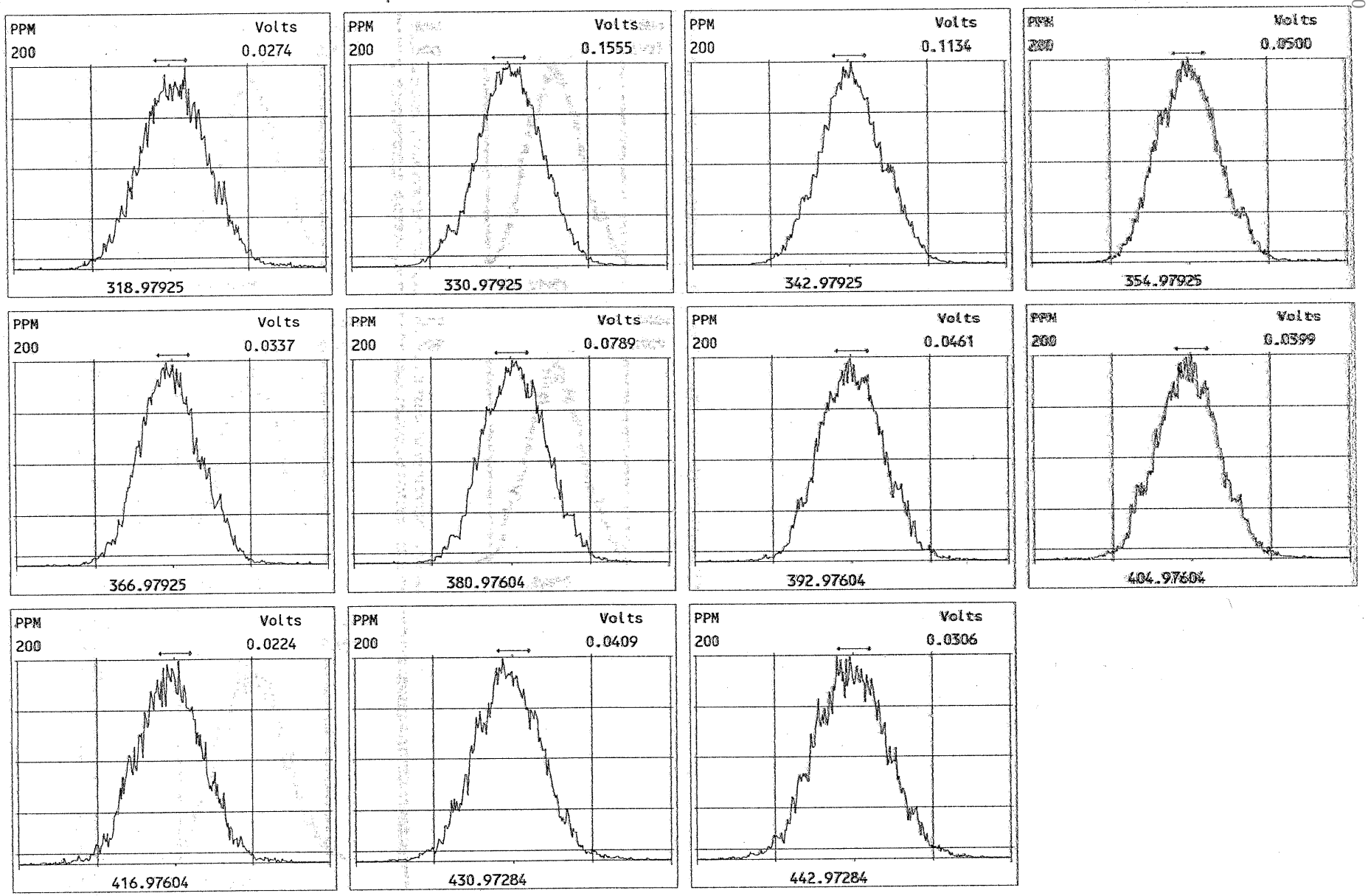
Peak Locate Examination: 2-AUG-2019:23:13 File:02AUG19Z_RES_CHECK

Experiment:1668PCB Function:4 Reference:PFK

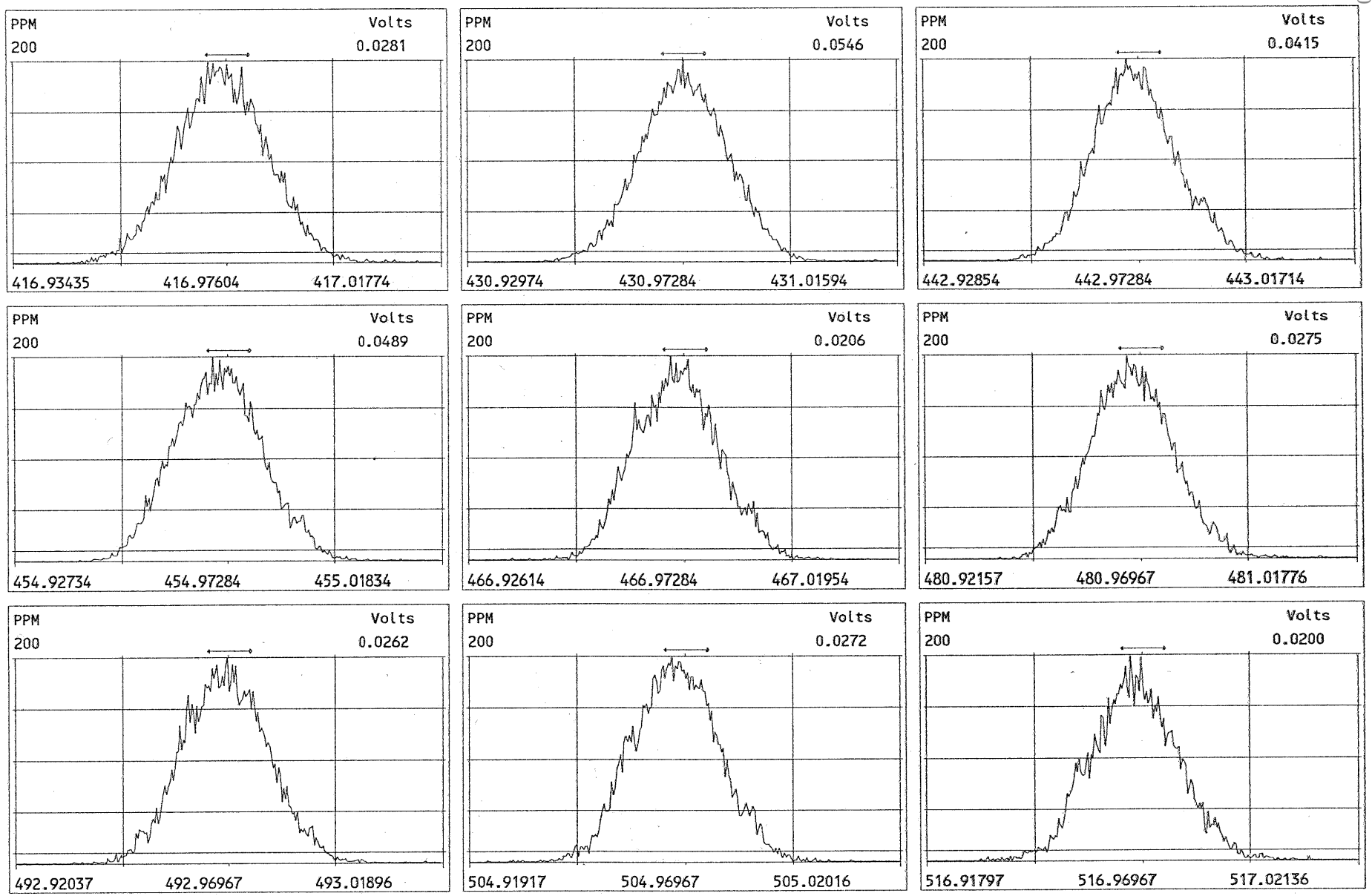


Peak Locate Examination: 2-AUG-2019:23:15 File:02AUG19Z_RES_CHECK

Experiment:1668PCB Function:5 Reference:PFK



Peak Locate Examination: 2-AUG-2019:23:18 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK



Cal: DAILY209FAL4-8-2-19

Run: 02AUG19Z Analyte: DAILY209FAL4-8-2-19 Results: 12511-1 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:02AUG19Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.1591	-	1.16	
13C-PCB-1	0.9046	-	0.90	
PCB-2	1.1737	-	1.17	
PCB-3	1.1424	-	1.14	
13C-PCB-3	0.9220	-	0.92	
PCB-4	1.2450	-	1.24	
PCB-10	1.2128	-	1.21	
13C-PCB-4	0.6495	-	0.65	
PCB-9	1.3266	-	1.33	
PCB-7	1.3809	-	1.38	
PCB-6	1.4123	-	1.41	
PCB-8	1.2929	-	1.29	
PCB-5	1.3679	-	1.37	
PCB-14	1.2799	-	1.28	
PCB-11	1.2016	-	1.20	
PCB-13	1.2330	-	1.23	
PCB-12	1.2565	-	1.26	
PCB-15	1.1417	-	1.14	
13C-PCB-15	0.9808	-	0.98	
PCB-19	1.2243	-	1.22	
PCB-30	1.8439	-	1.84	
PCB-18	1.2213	-	1.22	
PCB-17	1.3064	-	1.31	
PCB-27	1.7859	-	1.79	
PCB-24	1.7772	-	1.78	
PCB-16	1.4689	-	1.47	
PCB-32	1.5441	-	1.54	
13C-PCB-19	0.4593	-	0.46	
13C-PCB-9	-	-	-	
PCB-34	1.2625	-	1.26	
PCB-23	1.2451	-	1.25	
PCB-29	1.2996	-	1.30	
PCB-26	1.2791	-	1.28	
PCB-25	1.2218	-	1.22	
PCB-31	1.2534	-	1.25	
PCB-28	1.4572	-	1.46	
PCB-20	1.1959	-	1.20	Co-elute PCB 21/33
PCB-21	1.1959	-	1.20	Co-elute PCB 20/33
PCB-33	1.1959	-	1.20	Co-elute PCB 20/21
PCB-22	1.2756	-	1.28	
PCB-36	1.1776	-	1.18	
PCB-39	1.1730	-	1.17	
PCB-38	1.1563	-	1.16	
PCB-35	1.0719	-	1.07	
PCB-37	1.1325	-	1.13	
13C-PCB-37	1.4779	-	1.48	

PCB-54	1.2639	-	1.26	
PCB-50	0.9806	-	0.98	
PCB-53	0.9718	-	0.97	
PCB-51	1.0033	-	1.00	
PCB-45	0.8407	-	0.84	
PCB-46	0.7973	-	0.80	
PCB-52	0.9657	-	0.97	Co-elute PCB 69
PCB-69	0.9657	-	0.97	Co-elute PCB 52
PCB-73	1.2685	-	1.27	
PCB-43	0.8665	-	0.87	Co-elute PCB 49
PCB-49	0.8665	-	0.87	Co-elute PCB 43
PCB-47	0.9184	-	0.92	
PCB-48	1.0698	-	1.07	Co-elute PCB 75
PCB-75	1.0698	-	1.07	Co-elute PCB 48
PCB-65	1.0634	-	1.06	
PCB-62	1.1606	-	1.16	
PCB-44	0.7208	-	0.72	
PCB-42	0.9425	-	0.94	Co-elute PCB 59
PCB-59	0.9425	-	0.94	Co-elute PCB 42
PCB-72	1.0594	-	1.06	Co-elute PCB 41/71/64
PCB-41	1.0594	-	1.06	Co-elute PCB 72/71/64
PCB-71	1.0594	-	1.06	Co-elute PCB 72/41/64
PCB-64	1.0594	-	1.06	Co-elute PCB 72/41/71
PCB-68	1.2055	-	1.21	
PCB-40	0.6563	-	0.66	
PCB-57	1.0928	-	1.09	
PCB-67	1.0783	-	1.08	
PCB-58	1.1020	-	1.10	
PCB-63	1.1038	-	1.10	
PCB-74	1.0765	-	1.08	
PCB-61	1.0291	-	1.03	Co-elute PCB 70
PCB-70	1.0291	-	1.03	Co-elute PCB 61
PCB-76	1.1287	-	1.13	Co-elute PCB 66
PCB-66	1.1287	-	1.13	Co-elute PCB 76
PCB-80	1.2968	-	1.30	
PCB-55	1.1291	-	1.13	
13C-PCB-54	1.1968	-	1.20	
PCB-104	1.1069	-	1.11	
PCB-96	1.0451	-	1.05	
PCB-103	0.8412	-	0.84	
PCB-100	0.8337	-	0.83	
PCB-94	0.6863	-	0.69	
PCB-98	0.7155	-	0.72	Co-elute PCB 102
PCB-102	0.7155	-	0.72	Co-elute PCB 98
PCB-95	0.7131	-	0.71	
PCB-93	0.6939	-	0.69	
PCB-88	0.7657	-	0.77	Co-elute PCB 91
PCB-91	0.7657	-	0.77	Co-elute PCB 88
PCB-121	0.9259	-	0.93	
13C-PCB-104	0.9226	-	0.92	
13C-PCB-28	1.8280	-	1.83	
13C-PCB-52	-	-	-	

PCB-56	1.2624	-	1.26	Co-elute PCB 60
PCB-60	1.2624	-	1.26	Co-elute PCB 56
PCB-79	1.1903	-	1.19	
PCB-78	1.0987	-	1.10	
PCB-81	1.2366	-	1.24	
13C-PCB-81	1.3750	-	1.38	
PCB-77	1.0487	-	1.05	
13C-PCB-77	1.4252	-	1.43	
PCB-155	1.0301	-	1.03	
PCB-150	0.9878	-	0.99	
PCB-152	0.8956	-	0.90	
PCB-145	0.8569	-	0.86	
PCB-136	0.8090	-	0.81	
PCB-148	0.6030	-	0.60	
PCB-154	0.6800	-	0.68	
13C-PCB-155	1.2311	-	1.23	
13C-PCB-111	1.0839	-	1.08	
13C-PCB-101	-	-	-	
PCB-84	0.8742	-	0.87	Co-elute PCB 92
PCB-92	0.8742	-	0.87	Co-elute PCB 84
PCB-89	0.8736	-	0.87	
PCB-90	0.9783	-	0.98	Co-elute PCB 101
PCB-101	0.9783	-	0.98	Co-elute PCB 90
PCB-113	1.0914	-	1.09	
PCB-99	1.1167	-	1.12	
PCB-119	1.2045	-	1.20	
PCB-83	0.8811	-	0.88	Co-elute PCB 112
PCB-112	0.8811	-	0.88	Co-elute PCB 83
PCB-109	1.0622	-	1.06	
PCB-97	0.7182	-	0.72	
PCB-86	0.7105	-	0.71	
PCB-125	0.9529	-	0.95	Co-elute PCB 87/117
PCB-87	0.9529	-	0.95	Co-elute PCB 125/117
PCB-117	0.9529	-	0.95	Co-elute PCB 125/87
PCB-111	1.1514	-	1.15	Co-elute PCB 115
PCB-115	1.1514	-	1.15	Co-elute PCB 111
PCB-85	0.8682	-	0.87	Co-elute PCB 116
PCB-116	0.8682	-	0.87	Co-elute PCB 85
PCB-120	1.1255	-	1.13	
PCB-110	1.0357	-	1.04	
PCB-82	0.6002	-	0.60	
PCB-124	1.0380	-	1.04	
PCB-108	1.1007	-	1.10	Co-elute PCB 107
PCB-107	1.1007	-	1.10	Co-elute PCB 108
PCB-123	1.0549	-	1.05	
13C-PCB-123	1.3134	-	1.31	
PCB-118	1.0434	-	1.04	Co-elute PCB 106
PCB-106	1.0434	-	1.04	Co-elute PCB 118
13C-PCB-118	1.5087	-	1.51	
PCB-114	1.1125	-	1.11	
13C-PCB-114	1.4204	-	1.42	
PCB-122	1.0721	-	1.07	
PCB-105	1.1348	-	1.13	
13C-PCB-105	1.4397	-	1.44	
PCB-127	1.0503	-	1.05	
PCB-126	1.0785	-	1.08	
13C-PCB-126	1.3625	-	1.36	

PCB-151	0.7606	-	0.76	
PCB-135	0.7839	-	0.78	
PCB-144	0.8048	-	0.80	
PCB-147	0.9169	-	0.92	
PCB-139	0.8897	-	0.89	Co-elute PCB 149
PCB-149	0.8897	-	0.89	Co-elute PCB 139
PCB-140	0.8658	-	0.87	
PCB-143	0.7485	-	0.75	Co-elute PCB 134
PCB-134	0.7485	-	0.75	Co-elute PCB 143
PCB-131	0.7198	-	0.72	Co-elute PCB 133
PCB-133	0.7198	-	0.72	Co-elute PCB 131
PCB-142	0.7357	-	0.74	
PCB-165	1.0098	-	1.01	Co-elute PCB 146
PCB-146	1.0098	-	1.01	Co-elute PCB 165
PCB-161	0.9397	-	0.94	Co-elute PCB 132
PCB-132	0.9397	-	0.94	Co-elute PCB 161
PCB-153	0.9593	-	0.96	
PCB-168	1.0942	-	1.09	
PCB-141	0.7934	-	0.79	
PCB-137	0.8341	-	0.83	
PCB-130	0.6925	-	0.69	
PCB-138	1.0253	-	1.03	Co-elute PCB 163/164
PCB-163	1.0253	-	1.03	Co-elute PCB 138/164
PCB-164	1.0253	-	1.03	Co-elute PCB 138/163
PCB-158	1.1264	-	1.13	Co-elute PCB 160
PCB-160	1.1264	-	1.13	Co-elute PCB 158
PCB-129	0.6966	-	0.70	
PCB-166	1.0906	-	1.09	
PCB-159	1.1673	-	1.17	
PCB-128	0.9349	-	0.93	Co-elute PCB 162
PCB-162	0.9349	-	0.93	Co-elute PCB 128
PCB-167	1.1128	-	1.11	
13C-PCB-167	1.2161	-	1.22	
PCB-156	1.1951	-	1.20	
13C-PCB-156	1.2304	-	1.23	
PCB-157	1.1076	-	1.11	
13C-PCB-157	1.2494	-	1.25	
PCB-169	1.0539	-	1.05	
13C-PCB-169	1.2809	-	1.28	
PCB-188	1.0730	-	1.07	
13C-PCB-188	1.0483	-	1.05	

PCB-184	1.0550	-	1.06	
PCB-179	1.0279	-	1.03	
PCB-176	1.0262	-	1.03	
PCB-186	1.0221	-	1.02	
PCB-178	0.6586	-	0.66	
PCB-175	0.7762	-	0.78	
PCB-187	0.8270	-	0.83	Co-elute PCB 182
PCB-182	0.8270	-	0.83	Co-elute PCB 187
PCB-183	0.8088	-	0.81	
PCB-185	0.7246	-	0.72	
PCB-174	0.7177	-	0.72	
PCB-181	0.8135	-	0.81	
PCB-177	0.6495	-	0.65	
PCB-171	0.7594	-	0.76	
PCB-173	0.6899	-	0.69	
PCB-172	0.7319	-	0.73	
PCB-192	0.9647	-	0.96	
PCB-180	0.7302	-	0.73	
PCB-193	1.0330	-	1.03	
PCB-191	1.0206	-	1.02	
PCB-170	0.7315	-	0.73	
PCB-190	1.0487	-	1.05	
PCB-189	1.0567	-	1.06	
13C-PCB-189	1.0631	-	1.06	
PCB-202	1.0509	-	1.05	
PCB-201	1.0095	-	1.01	
PCB-204	1.1338	-	1.13	
PCB-197	1.0953	-	1.10	
PCB-200	1.0426	-	1.04	
PCB-198	0.7563	-	0.76	
PCB-199	0.8603	-	0.86	
PCB-203	0.9327	-	0.93	Co-elute PCB 196
PCB-196	0.9327	-	0.93	Co-elute PCB 203
13C-PCB-202	0.8499	-	0.85	
13C-PCB-178	0.6643	-	0.66	
13C-PCB-138	-	-	-	
PCB-195	0.7797	-	0.78	
PCB-194	0.8531	-	0.85	
PCB-205	1.1023	-	1.10	
13C-PCB-205	1.3006	-	1.30	
PCB-208	1.0582	-	1.06	
13C-PCB-208	1.1993	-	1.20	
PCB-207	1.1787	-	1.18	
PCB-206	1.0734	-	1.07	
13C-PCB-206	0.9376	-	0.94	
PCB-209	1.1162	-	1.12	
13C-PCB-209	1.2159	-	1.22	
13C-PCB-194	-	-	-	

Analyst: _____ Date: 8/2/19

Run #1 Filename 02AUG19Z S: 2 Acquired: 2-AUG-19 08:00:38 Cal: DAILY209FAL4-8-2-19
Client ID: SS080219Z1 Analyte: FAL ID: Daily 209 190408A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	8.92e+07	3.16 y	14:33	-	1.16	
2	IS/RT	13C-PCB-1	100.00	1.54e+08	3.21 y	14:31	-	0.905	
3	Unk	PCB-2	50.00	9.12e+07	3.15 y	16:45	-	1.17	
4	Unk	PCB-3	50.00	8.96e+07	3.12 y	16:58	-	1.14	
5	IS/RT	13C-PCB-3	100.00	1.57e+08	3.30 y	16:57	-	0.922	
6	Unk	PCB-4	50.00	6.88e+07	1.49 y	18:12	-	1.24	
7	Unk	PCB-10	50.00	8.41e+07	1.60 y	18:16	-	1.21	
8	IS/RT	13C-PCB-4	100.00	1.11e+08	1.57 y	18:11	-	0.650	
9	Unk	PCB-9	50.00	9.20e+07	1.49 y	19:54	-	1.33	
10	Unk	PCB-7	50.00	9.58e+07	1.59 y	19:56	-	1.38	
11	Unk	PCB-6	50.00	9.80e+07	1.55 y	20:31	-	1.41	
12	Unk	PCB-8	50.00	8.97e+07	1.50 y	20:53	-	1.29	
13	Unk	PCB-5	50.00	9.49e+07	1.56 y	20:56	-	1.37	
14	Unk	PCB-14	50.00	8.88e+07	1.54 y	21:56	-	1.28	
15	Unk	PCB-11	50.00	8.33e+07	1.52 y	23:04	-	1.20	
16	Unk	PCB-13	50.00	8.55e+07	1.52 y	23:25	-	1.23	
17	Unk	PCB-12	50.00	8.72e+07	1.55 y	23:27	-	1.26	
18	Unk	PCB-15	50.00	9.53e+07	1.50 y	23:44	-	1.14	
19	IS/RT	13C-PCB-15	100.00	1.67e+08	1.59 y	23:42	-	0.981	
20	Unk	PCB-19	50.00	4.78e+07	1.05 y	22:05	-	1.22	
21	Unk	PCB-30	50.00	7.21e+07	1.07 y	22:56	-	1.84	
22	Unk	PCB-18	50.00	4.77e+07	1.08 y	23:38	-	1.22	
23	Unk	PCB-17	50.00	5.11e+07	1.05 y	23:48	-	1.31	
24	Unk	PCB-27	50.00	6.98e+07	1.01 y	24:20	-	1.79	
25	Unk	PCB-24	50.00	6.95e+07	1.13 y	24:21	-	1.78	
26	Unk	PCB-16	50.00	5.74e+07	1.08 y	24:49	-	1.47	
27	Unk	PCB-32	50.00	6.03e+07	1.04 y	24:50	-	1.54	
28	IS/RT	13C-PCB-19	100.00	7.82e+07	1.08 y	22:04	-	0.459	
29	RS	13C-PCB-9	100.00	1.70e+08	1.59 y	19:52	1.70e+06	-	
30	Unk	PCB-34	50.00	7.56e+07	1.02 y	25:35	-	1.26	
31	Unk	PCB-23	50.00	7.45e+07	1.02 y	25:40	-	1.25	
32	Unk	PCB-29	50.00	7.78e+07	1.04 y	25:54	-	1.30	
33	Unk	PCB-26	50.00	7.66e+07	1.02 y	26:06	-	1.28	
34	Unk	PCB-25	50.00	7.32e+07	1.02 y	26:16	-	1.22	
35	Unk	PCB-31	50.00	7.50e+07	1.02 y	26:36	-	1.25	
36	Unk	PCB-28	50.00	8.73e+07	1.00 y	26:41	-	1.46	
37	Unk	PCB-20	150.00	2.15e+08	1.03 y	27:16	-	1.20	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	2.15e+08	1.03 y	27:16	-	1.20	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	2.15e+08	1.03 y	27:16	-	1.20	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	7.64e+07	1.04 y	27:42	-	1.28	
41	Unk	PCB-36	50.00	7.05e+07	1.04 y	28:16	-	1.18	
42	Unk	PCB-39	50.00	7.02e+07	1.03 y	28:44	-	1.17	
43	Unk	PCB-38	50.00	6.92e+07	1.03 y	29:27	-	1.16	
44	Unk	PCB-35	50.00	6.42e+07	1.04 y	29:57	-	1.07	
45	Unk	PCB-37	50.00	6.78e+07	1.02 y	30:22	-	1.13	
46	IS	13C-PCB-37	100.00	1.20e+08	1.06 y	30:21	-	1.48	

47	Unk	PCB-54	100.00	1.23e+08	0.80	y	25:38	-	1.26	
48	Unk	PCB-50	100.00	9.51e+07	0.80	y	26:43	-	0.981	
49	Unk	PCB-53	100.00	9.42e+07	0.80	y	27:20	-	0.972	
50	Unk	PCB-51	100.00	9.73e+07	0.79	y	27:39	-	1.00	
51	Unk	PCB-45	100.00	8.15e+07	0.79	y	28:04	-	0.841	
52	Unk	PCB-46	100.00	7.73e+07	0.80	y	28:31	-	0.797	
53	Unk	PCB-52	200.00	1.87e+08	0.79	y	28:59	-	0.966	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.87e+08	0.79	y	28:59	-	0.966	Co-elute PCB 52
55	Unk	PCB-73	100.00	1.23e+08	0.80	y	29:04	-	1.27	
56	Unk	PCB-43	200.00	1.68e+08	0.79	y	29:14	-	0.867	Co-elute PCB 49
57	Unk	PCB-49	200.00	1.68e+08	0.79	y	29:14	-	0.867	Co-elute PCB 43
58	Unk	PCB-47	100.00	8.91e+07	0.77	y	29:27	-	0.918	
59	Unk	PCB-48	200.00	2.08e+08	0.80	y	29:33	-	1.07	Co-elute PCB 75
60	Unk	PCB-75	200.00	2.08e+08	0.80	y	29:33	-	1.07	Co-elute PCB 48
61	Unk	PCB-65	100.00	1.03e+08	0.78	y	29:48	-	1.06	
62	Unk	PCB-62	100.00	1.13e+08	0.80	y	29:54	-	1.16	
63	Unk	PCB-44	100.00	6.99e+07	0.82	y	30:11	-	0.721	
64	Unk	PCB-42	200.00	1.83e+08	0.80	y	30:23	-	0.943	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.83e+08	0.80	y	30:23	-	0.943	Co-elute PCB 42
66	Unk	PCB-72	400.00	4.11e+08	0.79	y	30:58	-	1.06	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	4.11e+08	0.79	y	30:58	-	1.06	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	4.11e+08	0.79	y	30:58	-	1.06	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	4.11e+08	0.79	y	30:58	-	1.06	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	1.17e+08	0.80	y	31:11	-	1.21	
71	Unk	PCB-40	100.00	6.37e+07	0.79	y	31:24	-	0.656	
72	Unk	PCB-57	100.00	1.06e+08	0.80	y	31:44	-	1.09	
73	Unk	PCB-67	100.00	1.05e+08	0.88	y	32:02	-	1.08	
74	Unk	PCB-58	100.00	1.07e+08	0.73	y	32:08	-	1.10	
75	Unk	PCB-63	100.00	1.07e+08	0.79	y	32:17	-	1.10	
76	Unk	PCB-74	100.00	1.04e+08	0.79	y	32:34	-	1.08	
77	Unk	PCB-61	200.00	2.00e+08	0.80	y	32:45	-	1.03	Co-elute PCB 70
78	Unk	PCB-70	200.00	2.00e+08	0.80	y	32:45	-	1.03	Co-elute PCB 61
79	Unk	PCB-76	200.00	2.19e+08	0.81	y	32:58	-	1.13	Co-elute PCB 66
80	Unk	PCB-66	200.00	2.19e+08	0.81	y	32:58	-	1.13	Co-elute PCB 76
81	Unk	PCB-80	100.00	1.26e+08	0.80	y	33:09	-	1.30	
82	Unk	PCB-55	100.00	1.10e+08	0.80	y	33:28	-	1.13	
83	IS/RT	13C-PCB-54	100.00	9.70e+07	0.82	y	25:35	-	1.20	
84	Unk	PCB-104	100.00	8.27e+07	1.58	y	30:03	-	1.11	
85	Unk	PCB-96	100.00	7.81e+07	1.57	y	31:14	-	1.05	
86	Unk	PCB-103	100.00	6.29e+07	1.59	y	31:44	-	0.841	
87	Unk	PCB-100	100.00	6.23e+07	1.57	y	32:05	-	0.834	
88	Unk	PCB-94	100.00	5.13e+07	1.60	y	32:31	-	0.686	
89	Unk	PCB-98	200.00	1.07e+08	1.60	y	32:58	-	0.715	Co-elute PCB 102
90	Unk	PCB-102	200.00	1.07e+08	1.60	y	32:58	-	0.715	Co-elute PCB 98
91	Unk	PCB-95	100.00	5.33e+07	1.51	y	33:01	-	0.713	
92	Unk	PCB-93	100.00	5.19e+07	1.65	y	33:06	-	0.694	
93	Unk	PCB-88	200.00	1.14e+08	1.58	y	33:25	-	0.766	Co-elute PCB 91
94	Unk	PCB-91	200.00	1.14e+08	1.58	y	33:25	-	0.766	Co-elute PCB 88
95	Unk	PCB-121	100.00	6.92e+07	1.62	y	33:29	-	0.926	
96	IS	13C-PCB-104	100.00	7.48e+07	1.58	y	30:01	-	0.923	
97	C/Up	13C-PCB-28	100.00	1.48e+08	1.06	y	26:40	-	1.83	
98	RS	13C-PCB-52	100.00	8.10e+07	0.82	y	28:56	8.10e+05	-	
99	Unk	PCB-56	200.00	2.19e+08	0.78	y	33:57	-	1.26	Co-elute PCB 60
100	Unk	PCB-60	200.00	2.19e+08	0.78	y	33:57	-	1.26	Co-elute PCB 56

101	Unk	PCB-79	100.00	1.03e+08	0.79 y	34:57	-	1.19	
102	Unk	PCB-78	100.00	9.55e+07	0.79 y	35:37	-	1.10	
103	Unk	PCB-81	100.00	1.06e+08	0.78 y	36:07	-	1.24	
104	IS	13C-PCB-81	100.00	8.54e+07	0.79 y	36:06	-	1.38	
105	Unk	PCB-77	100.00	9.28e+07	0.79 y	36:41	-	1.05	
106	IS/RT	13C-PCB-77	100.00	8.85e+07	0.80 y	36:40	-	1.43	
107	Unk	PCB-155	100.00	7.87e+07	1.27 y	34:12	-	1.03	
108	Unk	PCB-150	100.00	7.55e+07	1.26 y	35:24	-	0.988	
109	Unk	PCB-152	100.00	6.84e+07	1.30 y	35:51	-	0.896	
110	Unk	PCB-145	100.00	6.55e+07	1.27 y	36:16	-	0.857	
111	Unk	PCB-136	100.00	6.18e+07	1.27 y	36:35	-	0.809	
112	Unk	PCB-148	100.00	4.61e+07	1.29 y	36:40	-	0.603	
113	Unk	PCB-154	100.00	5.20e+07	1.26 y	37:08	-	0.680	
114	IS	13C-PCB-155	100.00	7.64e+07	1.28 y	34:11	-	1.23	
115	C/Up	13C-PCB-111	100.00	6.73e+07	1.61 y	36:15	-	1.08	
116	RS	13C-PCB-101	100.00	6.21e+07	1.64 y	34:36	6.21e+05	-	
117	Unk	PCB-84	200.00	1.26e+08	1.59 y	34:17	-	0.874	Co-elute PCB 92
118	Unk	PCB-92	200.00	1.26e+08	1.59 y	34:17	-	0.874	Co-elute PCB 84
119	Unk	PCB-89	100.00	6.30e+07	1.60 y	34:27	-	0.874	
120	Unk	PCB-90	200.00	1.41e+08	1.59 y	34:37	-	0.978	Co-elute PCB 101
121	Unk	PCB-101	200.00	1.41e+08	1.59 y	34:37	-	0.978	Co-elute PCB 90
122	Unk	PCB-113	100.00	7.87e+07	1.58 y	34:51	-	1.09	
123	Unk	PCB-99	100.00	8.05e+07	1.59 y	34:56	-	1.12	
124	Unk	PCB-119	100.00	8.68e+07	1.60 y	35:23	-	1.20	
125	Unk	PCB-83	200.00	1.27e+08	1.52 y	35:32	-	0.881	Co-elute PCB 112
126	Unk	PCB-112	200.00	1.27e+08	1.52 y	35:32	-	0.881	Co-elute PCB 83
127	Unk	PCB-109	100.00	7.66e+07	1.57 y	35:42	-	1.06	
128	Unk	PCB-97	100.00	5.18e+07	1.57 y	35:52	-	0.718	
129	Unk	PCB-86	100.00	5.12e+07	1.61 y	36:01	-	0.711	
130	Unk	PCB-125	300.00	2.06e+08	1.57 y	36:08	-	0.953	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	2.06e+08	1.57 y	36:08	-	0.953	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	2.06e+08	1.57 y	36:08	-	0.953	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.66e+08	1.59 y	36:17	-	1.15	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.66e+08	1.59 y	36:17	-	1.15	Co-elute PCB 111
135	Unk	PCB-85	200.00	1.25e+08	1.59 y	36:25	-	0.868	Co-elute PCB 116
136	Unk	PCB-116	200.00	1.25e+08	1.59 y	36:25	-	0.868	Co-elute PCB 85
137	Unk	PCB-120	100.00	8.11e+07	1.58 y	36:37	-	1.13	
138	Unk	PCB-110	100.00	7.46e+07	1.59 y	36:46	-	1.04	
139	Unk	PCB-82	100.00	4.33e+07	1.59 y	37:22	-	0.600	
140	Unk	PCB-124	100.00	7.48e+07	1.50 y	38:00	-	1.04	
141	Unk	PCB-108	200.00	1.59e+08	1.56 y	38:09	-	1.10	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.59e+08	1.56 y	38:09	-	1.10	Co-elute PCB 108
143	Unk	PCB-123	100.00	7.03e+07	1.55 y	38:19	-	1.05	
144	IS	13C-PCB-123	100.00	6.66e+07	1.57 y	38:17	-	1.31	
145	Unk	PCB-118	200.00	1.60e+08	1.55 y	38:30	-	1.04	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.60e+08	1.55 y	38:30	-	1.04	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	7.66e+07	1.60 y	38:28	-	1.51	
148	Unk	PCB-114	100.00	8.02e+07	1.53 y	39:06	-	1.11	
149	IS	13C-PCB-114	100.00	7.21e+07	1.62 y	39:05	-	1.42	
150	Unk	PCB-122	100.00	7.73e+07	1.57 y	39:13	-	1.07	
151	Unk	PCB-105	100.00	8.29e+07	1.53 y	39:56	-	1.13	
152	IS	13C-PCB-105	100.00	7.30e+07	1.58 y	39:54	-	1.44	
153	Unk	PCB-127	100.00	7.57e+07	1.54 y	40:14	-	1.05	
154	Unk	PCB-126	100.00	7.46e+07	1.51 y	42:02	-	1.08	
155	IS	13C-PCB-126	100.00	6.91e+07	1.58 y	42:01	-	1.36	

156	Unk	PCB-151	100.00	4.80e+07	1.28 y	37:46	-	0.761	
157	Unk	PCB-135	100.00	4.95e+07	1.28 y	37:57	-	0.784	
158	Unk	PCB-144	100.00	5.08e+07	1.29 y	38:04	-	0.805	
159	Unk	PCB-147	100.00	5.79e+07	1.28 y	38:10	-	0.917	
160	Unk	PCB-139	200.00	1.12e+08	1.28 y	38:27	-	0.890	Co-elute PCB 149
161	Unk	PCB-149	200.00	1.12e+08	1.28 y	38:27	-	0.890	Co-elute PCB 139
162	Unk	PCB-140	100.00	5.47e+07	1.27 y	38:37	-	0.866	
163	Unk	PCB-143	200.00	9.45e+07	1.26 y	39:01	-	0.748	Co-elute PCB 134
164	Unk	PCB-134	200.00	9.45e+07	1.26 y	39:01	-	0.748	Co-elute PCB 143
165	Unk	PCB-131	200.00	9.09e+07	1.28 y	39:18	-	0.720	Co-elute PCB 133
166	Unk	PCB-133	200.00	9.09e+07	1.28 y	39:18	-	0.720	Co-elute PCB 131
167	Unk	PCB-142	100.00	4.64e+07	1.28 y	39:28	-	0.736	
168	Unk	PCB-165	200.00	1.27e+08	1.28 y	39:39	-	1.01	Co-elute PCB 146
169	Unk	PCB-146	200.00	1.27e+08	1.28 y	39:39	-	1.01	Co-elute PCB 165
170	Unk	PCB-161	200.00	1.19e+08	1.27 y	39:52	-	0.940	Co-elute PCB 132
171	Unk	PCB-132	200.00	1.19e+08	1.27 y	39:52	-	0.940	Co-elute PCB 161
172	Unk	PCB-153	100.00	6.06e+07	1.28 y	40:02	-	0.959	
173	Unk	PCB-168	100.00	6.91e+07	1.29 y	40:14	-	1.09	
174	Unk	PCB-141	100.00	5.01e+07	1.28 y	40:45	-	0.793	
175	Unk	PCB-137	100.00	5.27e+07	1.25 y	41:06	-	0.834	
176	Unk	PCB-130	100.00	4.37e+07	1.27 y	41:11	-	0.692	
177	Unk	PCB-138	300.00	1.94e+08	1.28 y	41:34	-	1.03	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.94e+08	1.28 y	41:34	-	1.03	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.94e+08	1.28 y	41:34	-	1.03	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.42e+08	1.27 y	41:48	-	1.13	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.42e+08	1.27 y	41:48	-	1.13	Co-elute PCB 158
182	Unk	PCB-129	100.00	4.40e+07	1.26 y	42:01	-	0.697	
183	Unk	PCB-166	100.00	6.88e+07	1.26 y	42:27	-	1.09	
184	Unk	PCB-159	100.00	7.37e+07	1.26 y	42:45	-	1.17	
185	Unk	PCB-128	200.00	1.18e+08	1.26 y	43:02	-	0.935	Co-elute PCB 162
186	Unk	PCB-162	200.00	1.18e+08	1.26 y	43:02	-	0.935	Co-elute PCB 128
187	Unk	PCB-167	100.00	6.87e+07	1.27 y	43:23	-	1.11	
188	IS	13C-PCB-167	100.00	6.17e+07	1.28 y	43:23	-	1.22	
189	Unk	PCB-156	100.00	7.46e+07	1.27 y	44:37	-	1.20	
190	IS	13C-PCB-156	100.00	6.24e+07	1.30 y	44:35	-	1.23	
191	Unk	PCB-157	100.00	7.02e+07	1.27 y	44:52	-	1.11	
192	IS	13C-PCB-157	100.00	6.34e+07	1.30 y	44:52	-	1.25	
193	Unk	PCB-169	100.00	6.85e+07	1.25 y	46:44	-	1.05	
194	IS	13C-PCB-169	100.00	6.50e+07	1.28 y	46:44	-	1.28	
195	Unk	PCB-188	100.00	5.71e+07	1.09 y	39:41	-	1.07	
196	IS	13C-PCB-188	100.00	5.32e+07	1.05 y	39:39	-	1.05	

197	Unk	PCB-184	100.00	5.65e+07	1.09 y	40:07	-	1.06	
198	Unk	PCB-179	100.00	5.51e+07	1.07 y	40:52	-	1.03	
199	Unk	PCB-176	100.00	5.50e+07	1.08 y	41:18	-	1.03	
200	Unk	PCB-186	100.00	5.47e+07	1.09 y	41:53	-	1.02	
201	Unk	PCB-178	100.00	3.53e+07	0.97 y	42:20	-	0.659	
202	Unk	PCB-175	100.00	4.16e+07	1.07 y	42:39	-	0.776	
203	Unk	PCB-187	200.00	8.86e+07	1.09 y	42:48	-	0.827	Co-elute PCB 182
204	Unk	PCB-182	200.00	8.86e+07	1.09 y	42:48	-	0.827	Co-elute PCB 187
205	Unk	PCB-183	100.00	4.33e+07	1.07 y	43:07	-	0.809	
206	Unk	PCB-185	100.00	3.88e+07	1.08 y	43:44	-	0.725	
207	Unk	PCB-174	100.00	3.84e+07	1.07 y	44:04	-	0.718	
208	Unk	PCB-181	100.00	4.36e+07	1.07 y	44:11	-	0.813	
209	Unk	PCB-177	100.00	3.48e+07	1.07 y	44:21	-	0.650	
210	Unk	PCB-171	100.00	4.07e+07	1.07 y	44:37	-	0.759	
211	Unk	PCB-173	100.00	3.70e+07	1.05 y	45:02	-	0.690	
212	Unk	PCB-172	100.00	3.92e+07	1.07 y	45:25	-	0.732	
213	Unk	PCB-192	100.00	5.17e+07	1.06 y	45:35	-	0.965	
214	Unk	PCB-180	100.00	3.91e+07	1.05 y	45:46	-	0.730	
215	Unk	PCB-193	100.00	5.53e+07	1.08 y	45:56	-	1.03	
216	Unk	PCB-191	100.00	5.47e+07	1.08 y	46:09	-	1.02	
217	Unk	PCB-170	100.00	3.92e+07	1.08 y	47:04	-	0.732	
218	Unk	PCB-190	100.00	5.62e+07	1.07 y	47:13	-	1.05	
219	Unk	PCB-189	100.00	5.70e+07	1.07 y	48:24	-	1.06	
220	IS	13C-PCB-189	100.00	5.39e+07	1.06 y	48:24	-	1.06	
221	Unk	PCB-202	150.00	6.80e+07	0.92 y	44:47	-	1.05	
222	Unk	PCB-201	150.00	6.53e+07	0.95 y	45:15	-	1.01	
223	Unk	PCB-204	150.00	7.33e+07	0.92 y	45:23	-	1.13	
224	Unk	PCB-197	150.00	7.08e+07	0.94 y	45:40	-	1.10	
225	Unk	PCB-200	150.00	6.74e+07	0.94 y	46:24	-	1.04	
226	Unk	PCB-198	150.00	4.89e+07	0.93 y	47:35	-	0.756	
227	Unk	PCB-199	150.00	5.56e+07	0.95 y	47:40	-	0.860	
228	Unk	PCB-203	300.00	1.21e+08	0.95 y	47:55	-	0.933	Co-elute PCB 196
229	Unk	PCB-196	300.00	1.21e+08	0.95 y	47:55	-	0.933	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	4.31e+07	0.91 y	44:47	-	0.850	
231	C/Up	13C-PCB-178	100.00	3.37e+07	1.08 y	42:17	-	0.664	
232	RS	13C-PCB-138	100.00	5.07e+07	1.28 y	41:31	5.07e+05	-	
233	Unk	PCB-195	150.00	7.80e+07	0.89 y	49:01	-	0.780	
234	Unk	PCB-194	150.00	8.53e+07	0.90 y	49:50	-	0.853	
235	Unk	PCB-205	150.00	1.10e+08	0.90 y	50:04	-	1.10	
236	IS	13C-PCB-205	100.00	6.67e+07	0.90 y	50:04	-	1.30	
237	Unk	PCB-208	150.00	9.76e+07	1.37 y	49:08	-	1.06	
238	IS	13C-PCB-208	100.00	6.15e+07	0.82 y	49:07	-	1.20	
239	Unk	PCB-207	150.00	9.68e+07	1.34 y	49:25	-	1.18	
240	Unk	PCB-206	150.00	7.74e+07	1.33 y	51:16	-	1.07	
241	IS	13C-PCB-206	100.00	4.81e+07	0.79 y	51:16	-	0.938	
242	Unk	PCB-209	150.00	1.04e+08	1.20 y	52:28	-	1.12	
243	IS	13C-PCB-209	100.00	6.23e+07	1.20 y	52:26	-	1.22	
244	RS	13C-PCB-194	100.00	5.13e+07	0.90 y	49:48	5.13e+05	-	

Analyst: _____ Date: 8/2/15

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/2/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 02AUG19Z Sam:1 Analysis Date: 2-AUG-19 07:02:18

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.17	2.66-3.60	y	51.6	37.5 - 62.5
PCB-3	M/M+2	3.11	2.66-3.60	y	52.1	37.5 - 62.5
PCB-4	M/M+2	1.55	1.33-1.79	y	42.3	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	45.3	37.5 - 62.5
PCB-19	M/M+2	1.05	0.88-1.20	y	49.3	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	47.1	37.5 - 62.5
PCB-54	M/M+2	0.82	0.65-0.89	y	50.0	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	51.0	37.5 - 62.5
PCB-81	M/M+2	0.80	0.65-0.89	y	45.4	37.5 - 62.5
PCB-104	M+2/M+4	1.62	1.32-1.78	y	50.9	37.5 - 62.5
PCB-105	M+2/M+4	1.60	1.32-1.78	y	47.9	37.5 - 62.5
PCB-114	M+2/M+4	1.57	1.32-1.78	y	48.3	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	1.57	1.32-1.78	y	50.7	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	48.0	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	48.0	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	46.3	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	47.6	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	48.5	37.5 - 62.5
PCB-169	M+2/M+4	1.30	1.05-1.43	y	52.1	37.5 - 62.5
PCB-188	M+2/M+4	1.07	0.89-1.21	y	48.8	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	50.5	37.5 - 62.5
PCB-202	M+2/M+4	0.95	0.76-1.02	y	49.4	37.5 - 62.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	51.0	37.5 - 62.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	49.1	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	48.1	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	50.6	37.5 - 62.5

Analyst: _____ Date: 8/2/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/2/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 02AUG19Z Sam:1 Analysis Date: 2-AUG-19 07:02:18

	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	3.27	2.66-3.60	y	96.2	50.0 - 145
13C-PCB-3	M/M+2	3.28	2.66-3.60	y	97.6	50.0 - 145
13C-PCB-4	M/M+2	1.61	1.33-1.79	y	97.0	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	103	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	96.0	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	114	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	96.3	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	109	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	109	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	99.9	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	109	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	118	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	122	50.0 - 145
13C-PCB-123	M+2/M+4	1.55	1.32-1.78	y	125	50.0 - 145
13C-PCB-126	M+2/M+4	1.58	1.32-1.78	y	102	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	105	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	112	50.0 - 145
13C-PCB-157	M+2/M+4	1.28	1.05-1.43	y	112	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	115	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	104	50.0 - 145
13C-PCB-188	M+2/M+4	1.05	0.89-1.21	y	113	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	108	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	115	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	106	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	116	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	118	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	109	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	101	65.0 - 135
13C-PCB-111	M+2/M+4	1.64	1.32-1.78	y	117	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	107	75.0 - 125

Analyst: _____ Date: 8/2/19

FAL ID: ST08021921 Filename: 02AUG19Z Sam:1 Acquired: 2-AUG-19 07:02:18 ICal: DAILY209FAL4-8-2-19
Client ID: 1668 CS3 R181204D ConCal: ST08021921 EndCal: ST08021922
Results: 12511-1 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	8.03e+07	3.17 y	14:33	1.16	51.6		2.50	-	-	*	
13C-PCB-1	1.34e+08	3.27 y	14:32	0.90	96.2		2.50				96.2
PCB-3	8.27e+07	3.11 y	16:59	1.14	52.1		2.50	-	-	*	
13C-PCB-3	1.39e+08	3.28 y	16:58	0.92	97.6		2.50				97.6
PCB-4	5.13e+07	1.55 y	18:13	1.24	42.3		2.50	-	-	*	
13C-PCB-4	9.73e+07	1.61 y	18:12	0.65	97.0		2.50				97.0
PCB-15	8.09e+07	1.55 y	23:44	1.14	45.3		2.50	-	-	*	
13C-PCB-15	1.56e+08	1.60 y	23:43	0.98	103		2.50				103
PCB-19	4.11e+07	1.05 y	22:06	1.22	49.3		2.50	-	-	*	
13C-PCB-19	6.81e+07	1.07 y	22:04	0.46	96.0		2.50				96.0
13C-PCB-9	1.54e+08	1.58 y	19:52	-	90.8		2.50				
PCB-37	6.60e+07	1.05 y	30:22	1.13	47.1		2.50	-	-	*	
13C-PCB-37	1.24e+08	1.06 y	30:21	1.48	114		2.50				114
PCB-54	5.36e+07	0.82 y	25:38	1.26	50.0		2.50	-	-	*	
13C-PCB-54	8.48e+07	0.82 y	25:37	1.20	96.3		2.50				96.3
PCB-104	3.82e+07	1.62 y	30:03	1.11	50.9		2.50	-	-	*	
13C-PCB-104	6.78e+07	1.59 y	30:02	0.92	99.9		2.50				99.9
13C-PCB-28	1.36e+08	1.07 y	26:41	1.83	101		2.50				101
13C-PCB-52	7.36e+07	0.82 y	28:56	-	90.9		2.50				
PCB-81	5.12e+07	0.80 y	36:08	1.24	45.4		2.50	-	-	*	
13C-PCB-81	9.13e+07	0.80 y	36:07	1.38	109		2.50				109
PCB-77	5.05e+07	0.79 y	36:43	1.05	51.0		2.50	-	-	*	
13C-PCB-77	9.45e+07	0.80 y	36:41	1.43	109		2.50				109
PCB-155	3.89e+07	1.27 y	34:12	1.03	48.0		2.50	-	-	*	
13C-PCB-155	7.86e+07	1.28 y	34:11	1.23	105		2.50				105
13C-PCB-111	7.68e+07	1.64 y	36:16	1.08	117		2.50				117
13C-PCB-101	6.07e+07	1.63 y	34:37	-	97.7		2.50				
PCB-123	3.99e+07	1.57 y	38:20	1.05	50.7		2.50	-	-	*	
13C-PCB-123	7.46e+07	1.55 y	38:19	1.31	125		2.50				125
PCB-118	4.37e+07	1.56 y	38:30	1.04	50.1		2.50	-	-	*	
13C-PCB-118	8.36e+07	1.61 y	38:29	1.51	122		2.50				122
PCB-114	4.08e+07	1.57 y	39:08	1.11	48.3		2.50	-	-	*	
13C-PCB-114	7.60e+07	1.61 y	39:06	1.42	118		2.50				118
PCB-105	3.85e+07	1.60 y	39:56	1.13	47.9		2.50	-	-	*	
13C-PCB-105	7.09e+07	1.61 y	39:56	1.44	109		2.50				109
PCB-126	3.27e+07	1.57 y	42:02	1.08	48.0		2.50	-	-	*	
13C-PCB-126	6.32e+07	1.58 y	42:02	1.36	102		2.50				102
PCB-167	3.41e+07	1.26 y	43:25	1.11	48.5		2.50	-	-	*	
13C-PCB-167	6.32e+07	1.29 y	43:23	1.22	115		2.50				115
PCB-156	3.45e+07	1.25 y	44:39	1.20	46.3		2.50	-	-	*	
13C-PCB-156	6.23e+07	1.30 y	44:37	1.23	112		2.50				112
PCB-157	3.34e+07	1.24 y	44:54	1.11	47.6		2.50	-	-	*	
13C-PCB-157	6.35e+07	1.28 y	44:54	1.25	112		2.50				112
PCB-169	3.31e+07	1.30 y	46:46	1.05	52.1		2.50	-	-	*	
13C-PCB-169	6.02e+07	1.29 y	46:46	1.28	104		2.50				104
PCB-188	2.81e+07	1.07 y	39:43	1.07	48.8		2.50	-	-	*	
13C-PCB-188	5.38e+07	1.05 y	39:41	1.05	113		2.50				113
PCB-189	2.79e+07	1.07 y	48:26	1.06	50.5		2.50	-	-	*	
13C-PCB-189	5.23e+07	1.07 y	48:24	1.06	108		2.50				108
PCB-202	2.30e+07	0.95 y	44:49	1.05	49.4		2.50	-	-	*	
13C-PCB-202	4.43e+07	0.92 y	44:49	0.85	115		2.50				115
13C-PCB-178	3.22e+07	1.05 y	42:19	0.66	107		2.50				107
13C-PCB-138	4.53e+07	1.30 y	41:33	-	89.3		2.50				

FAL ID: ST080219Z1 Filename: 02AUG19Z Sam:1 Acquired: 2-AUG-19 07:02:18 ICal: DAILY209FAL4-8-2-19
Client ID: 1668 CS3 R181204D ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12511-1 GC Column: DB1MS Amount: 1.000

PCB-205	3.42e+07	0.91	y	50:05	1.10	51.0	2.50	-	-	*	
13C-PCB-205	6.09e+07	0.89	y	50:04	1.30	106	2.50				106
PCB-208	3.17e+07	1.34	y	49:09	1.06	48.1	2.50	-	-	*	
13C-PCB-208	6.22e+07	0.81	y	49:09	1.20	118	2.50				118
PCB-206	2.51e+07	1.36	y	51:17	1.07	49.1	2.50	-	-	*	
13C-PCB-206	4.76e+07	0.80	y	51:16	0.94	116	2.50				116
PCB-209	3.29e+07	1.20	y	52:28	1.12	50.6	2.50	-	-	*	
13C-PCB-209	5.83e+07	1.20	y	52:28	1.22	109	2.50				109
13C-PCB-194	4.39e+07	0.93	y	49:48	-	85.7	2.50				

Analyst: _____ Date: 8/8/19

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/2/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 02AUG19Z Sam:16 Analysis Date: 2-AUG-19 21:38:52

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	51.5	37.5 - 62.5
PCB-3	M/M+2	3.11	2.66-3.60	y	52.0	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	42.9	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	46.0	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	47.3	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	48.7	37.5 - 62.5
PCB-54	M/M+2	0.81	0.65-0.89	y	49.2	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	52.2	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	45.8	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	50.5	37.5 - 62.5
PCB-105	M+2/M+4	1.57	1.32-1.78	y	47.0	37.5 - 62.5
PCB-114	M+2/M+4	1.56	1.32-1.78	y	49.0	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	52.3	37.5 - 62.5
PCB-123	M+2/M+4	1.52	1.32-1.78	y	50.8	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	51.2	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	50.0	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	47.9	37.5 - 62.5
PCB-157	M+2/M+4	1.29	1.05-1.43	y	49.3	37.5 - 62.5
PCB-167	M+2/M+4	1.28	1.05-1.43	y	51.1	37.5 - 62.5
PCB-169	M+2/M+4	1.28	1.05-1.43	y	54.0	37.5 - 62.5
PCB-188	M+2/M+4	1.03	0.89-1.21	y	48.0	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	49.2	37.5 - 62.5
PCB-202	M+2/M+4	0.93	0.76-1.02	y	48.8	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	51.4	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	1.37	1.13-1.53	y	49.1	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	49.9	37.5 - 62.5

Analyst: _____ Date: 8/5/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 8/8/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 02AUG19Z Sam:16 Analysis Date: 2-AUG-19 21:38:52

	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	113	50.0 - 145
13C-PCB-3	M/M+2	3.22	2.66-3.60	y	102	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	116	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	85.5	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	116	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	94.9	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	132	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	106	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	107	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	131	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	98.3	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	98.7	50.0 - 145
13C-PCB-118	M+2/M+4	1.59	1.32-1.78	y	99.3	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	106	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	94.9	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	126	50.0 - 145
13C-PCB-156	M+2/M+4	1.31	1.05-1.43	y	97.0	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	102	50.0 - 145
13C-PCB-167	M+2/M+4	1.30	1.05-1.43	y	99.1	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	97.1	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	121	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	114	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	126	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	103	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	106	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	109	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	99.0	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	105	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	119	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	124	75.0 - 125

Analyst: _____ Date: 8/5/19

Client ID: 1668 CS3 R181204D ConCal: ST080219Z1 EndCal: ST080219Z2
Results: 12511-1 GC Column: DB1MS Amount: 1.000

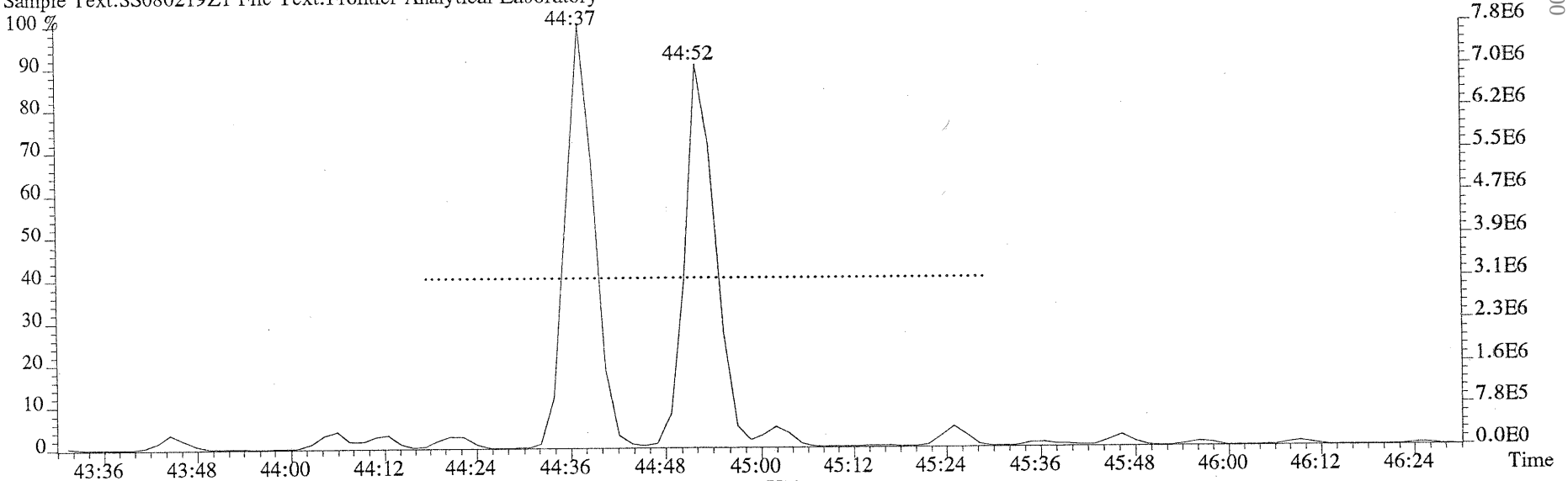
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	8.42e+07	3.21 y	14:31	1.16	51.5		2.50	-	-	*	
13C-PCB-1	1.41e+08	3.17 y	14:30	0.90	113		2.50				113
PCB-3	7.72e+07	3.11 y	16:56	1.14	52.0		2.50	-	-	*	
13C-PCB-3	1.30e+08	3.22 y	16:56	0.92	102		2.50				102
PCB-4	5.53e+07	1.57 y	18:10	1.24	42.9		2.50	-	-	*	
13C-PCB-4	1.04e+08	1.60 y	18:10	0.65	116		2.50				116
PCB-15	6.08e+07	1.56 y	23:42	1.14	46.0		2.50	-	-	*	
13C-PCB-15	1.16e+08	1.61 y	23:41	0.98	85.5		2.50				85.5
PCB-19	4.25e+07	1.06 y	22:03	1.22	47.3		2.50	-	-	*	
13C-PCB-19	7.34e+07	1.07 y	22:02	0.46	116		2.50				116
13C-PCB-9	1.38e+08	1.62 y	19:50	-	81.0		2.50				
PCB-37	4.28e+07	1.05 y	30:21	1.13	48.7		2.50	-	-	*	
13C-PCB-37	7.77e+07	1.09 y	30:20	1.48	94.9		2.50				94.9
PCB-54	5.45e+07	0.81 y	25:35	1.26	49.2		2.50	-	-	*	
13C-PCB-54	8.77e+07	0.83 y	25:34	1.20	132		2.50				132
PCB-104	3.75e+07	1.57 y	30:01	1.11	50.5		2.50	-	-	*	
13C-PCB-104	6.69e+07	1.61 y	29:59	0.92	131		2.50				131
13C-PCB-28	1.06e+08	1.04 y	26:38	1.83	105		2.50				105
13C-PCB-52	5.53e+07	0.81 y	28:54	-	68.3		2.50				
PCB-81	3.30e+07	0.79 y	36:06	1.24	45.8		2.50	-	-	*	
13C-PCB-81	5.83e+07	0.81 y	36:04	1.38	107		2.50				107
PCB-77	3.28e+07	0.80 y	36:40	1.05	52.2		2.50	-	-	*	
13C-PCB-77	6.00e+07	0.80 y	36:39	1.43	106		2.50				106
PCB-155	3.16e+07	1.26 y	34:09	1.03	50.0		2.50	-	-	*	
13C-PCB-155	6.13e+07	1.28 y	34:08	1.23	126		2.50				126
13C-PCB-111	5.10e+07	1.61 y	36:13	1.08	119		2.50				119
13C-PCB-101	3.96e+07	1.65 y	34:35	-	63.7		2.50				
PCB-123	2.85e+07	1.52 y	38:17	1.05	50.8		2.50	-	-	*	
13C-PCB-123	5.33e+07	1.59 y	38:15	1.31	106		2.50				106
PCB-118	3.13e+07	1.54 y	38:27	1.04	52.3		2.50	-	-	*	
13C-PCB-118	5.74e+07	1.59 y	38:27	1.51	99.3		2.50				99.3
PCB-114	2.93e+07	1.56 y	39:05	1.11	49.0		2.50	-	-	*	
13C-PCB-114	5.37e+07	1.60 y	39:03	1.42	98.7		2.50				98.7
PCB-105	2.89e+07	1.57 y	39:54	1.13	47.0		2.50	-	-	*	
13C-PCB-105	5.42e+07	1.60 y	39:52	1.44	98.3		2.50				98.3
PCB-126	2.73e+07	1.57 y	42:01	1.08	51.2		2.50	-	-	*	
13C-PCB-126	4.95e+07	1.60 y	41:59	1.36	94.9		2.50				94.9
PCB-167	2.62e+07	1.28 y	43:23	1.11	51.1		2.50	-	-	*	
13C-PCB-167	4.62e+07	1.30 y	43:21	1.22	99.1		2.50				99.1
PCB-156	2.62e+07	1.25 y	44:35	1.20	47.9		2.50	-	-	*	
13C-PCB-156	4.57e+07	1.31 y	44:35	1.23	97.0		2.50				97.0
PCB-157	2.68e+07	1.29 y	44:52	1.11	49.3		2.50	-	-	*	
13C-PCB-157	4.90e+07	1.30 y	44:50	1.25	102		2.50				102
PCB-169	2.71e+07	1.28 y	46:44	1.05	54.0		2.50	-	-	*	
13C-PCB-169	4.77e+07	1.29 y	46:42	1.28	97.1		2.50				97.1
PCB-188	2.51e+07	1.03 y	39:39	1.07	48.0		2.50	-	-	*	
13C-PCB-188	4.87e+07	1.06 y	39:37	1.05	121		2.50				121
PCB-189	2.42e+07	1.06 y	48:24	1.06	49.2		2.50	-	-	*	
13C-PCB-189	4.66e+07	1.06 y	48:23	1.06	114		2.50				114
PCB-202	2.11e+07	0.93 y	44:45	1.05	48.8		2.50	-	-	*	
13C-PCB-202	4.11e+07	0.91 y	44:45	0.85	126		2.50				126
13C-PCB-178	3.17e+07	1.05 y	42:16	0.66	124		2.50				124
13C-PCB-138	3.83e+07	1.30 y	41:29	-	75.5		2.50				

Client ID: 1668 CS3 R181204D ConCal: ST08021 9Z1 EndCal: ST08021 9Z2
Results: 12511-1 GC Column: DB1MS Amount: 1.000

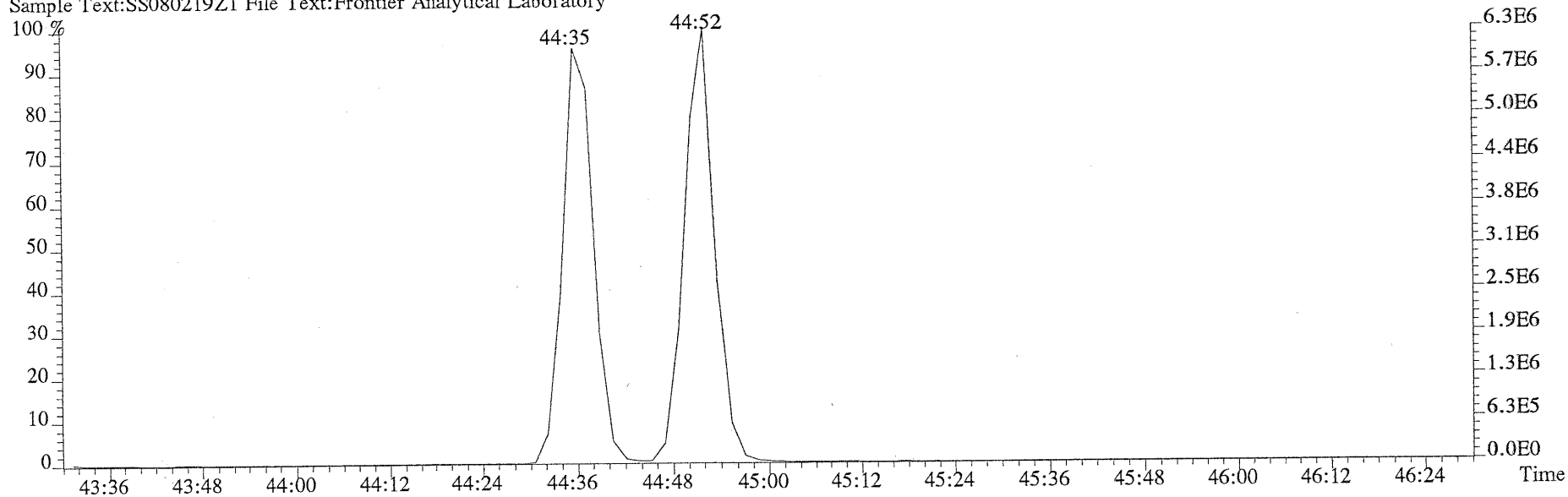
PCB-205	3.24e+07	0.89	y	50:04	1.10	51.4	2.50	-	-	*
13C-PCB-205	5.72e+07	0.90	y	50:02	1.30	103	2.50			103
PCB-208	2.89e+07	1.37	y	49:07	1.06	49.1	2.50	-	-	*
13C-PCB-208	5.57e+07	0.80	y	49:06	1.20	109	2.50			109
PCB-206	2.18e+07	1.35	y	51:14	1.07	47.9	2.50	-	-	*
13C-PCB-206	4.24e+07	0.80	y	51:14	0.94	106	2.50			106
PCB-209	2.85e+07	1.20	y	52:26	1.12	49.9	2.50	-	-	*
13C-PCB-209	5.12e+07	1.20	y	52:25	1.22	99.0	2.50			99.0
13C-PCB-194	4.26e+07	0.92	y	49:47	-	83.1	2.50			

Analyst: [illegible] Date: 8/5/19

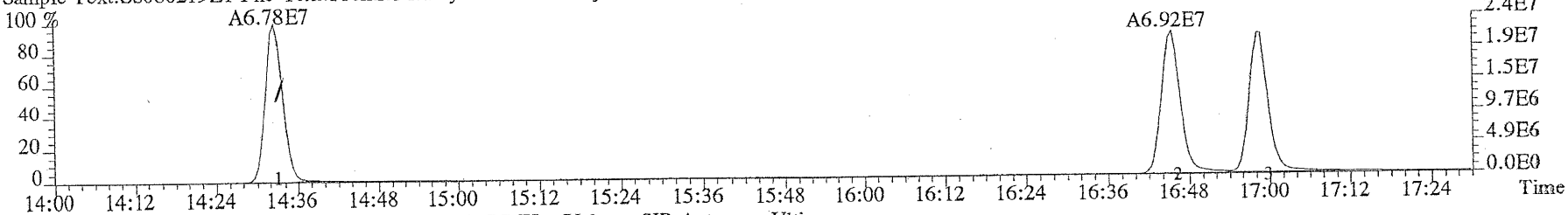
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



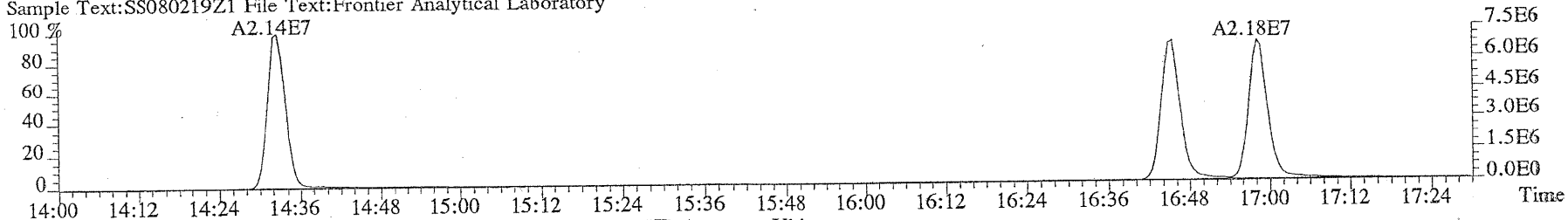
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



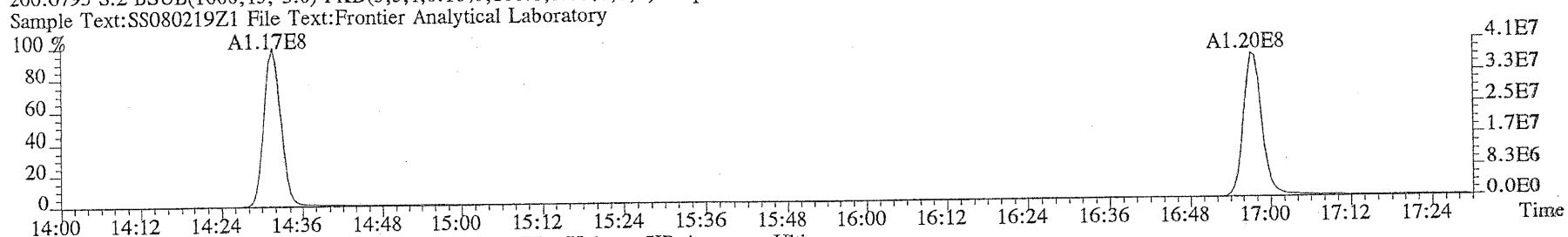
File:02AUG19Z #1-784 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



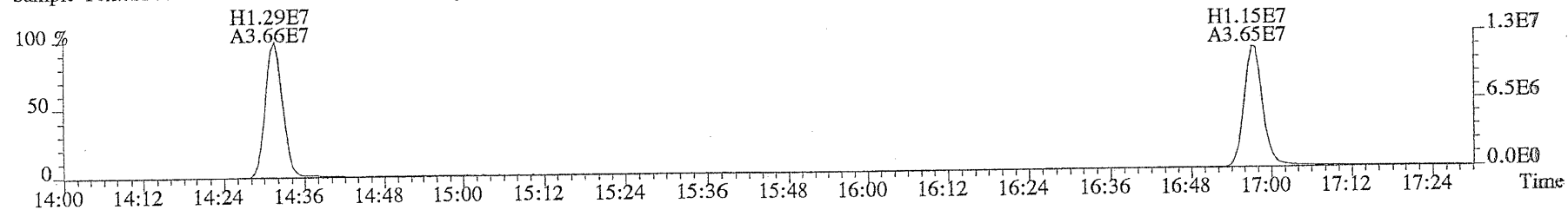
File:02AUG19Z #1-784 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



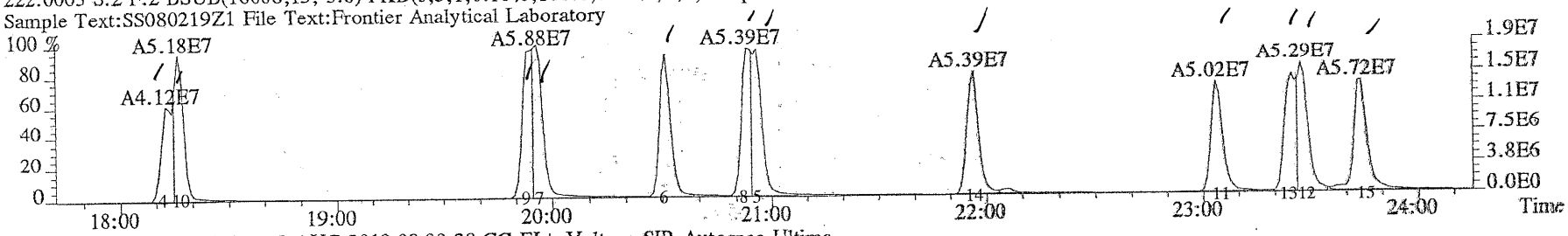
File:02AUG19Z #1-784 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



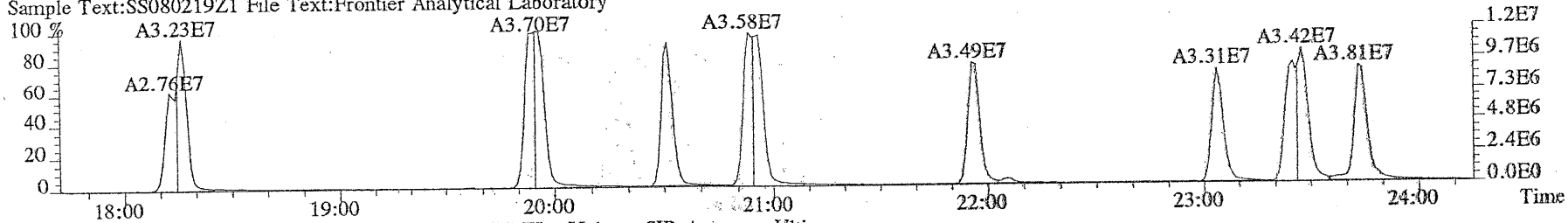
File:02AUG19Z #1-784 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



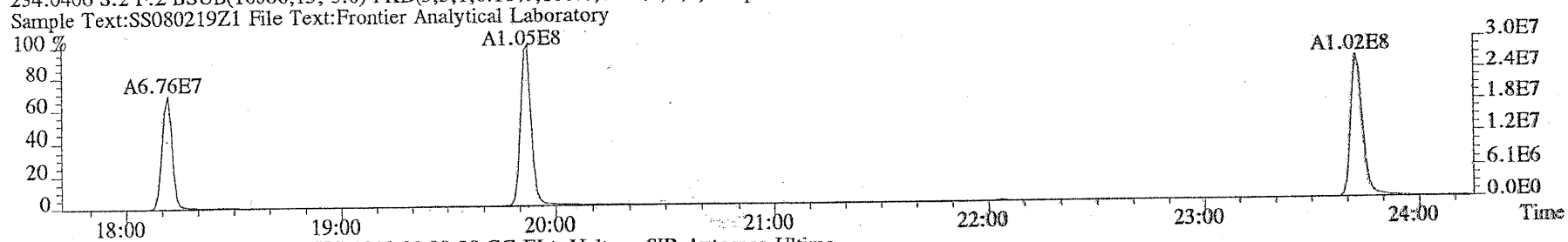
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



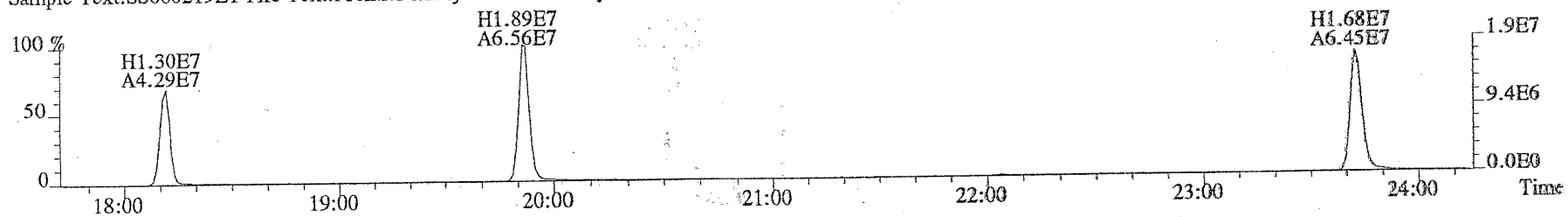
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



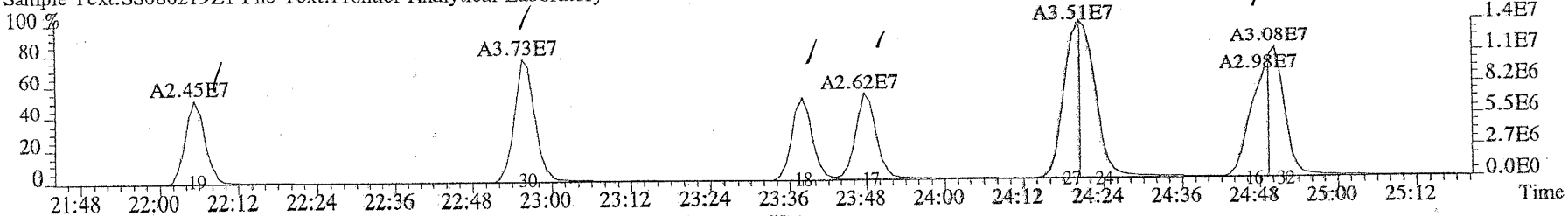
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



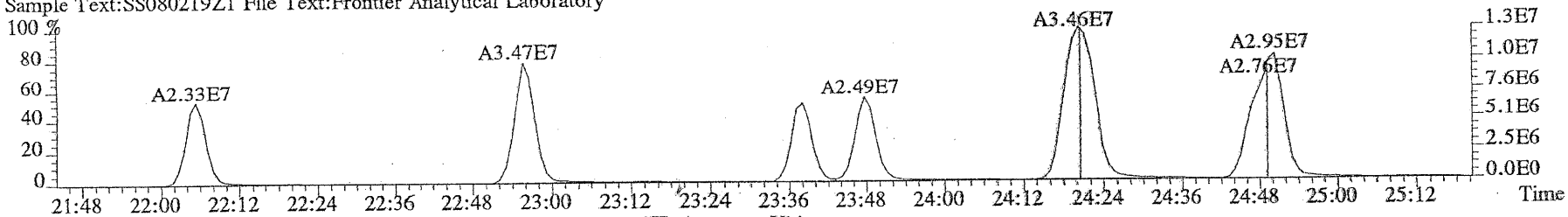
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



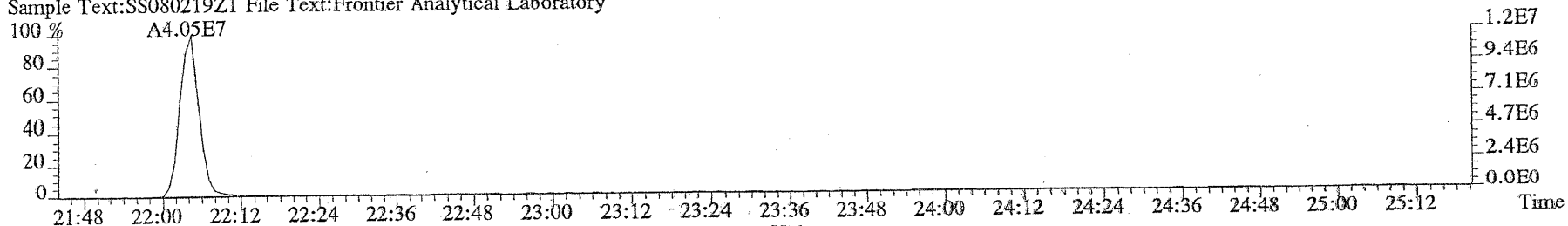
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



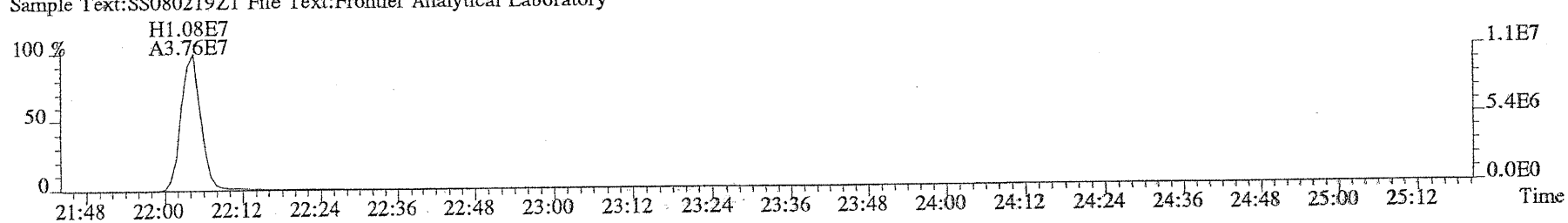
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



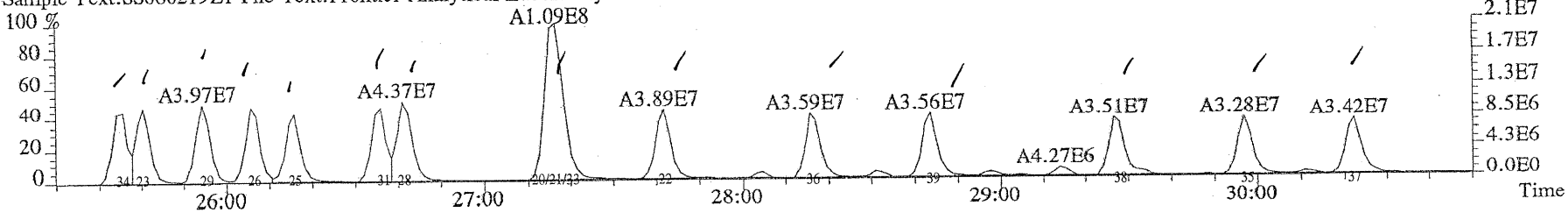
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



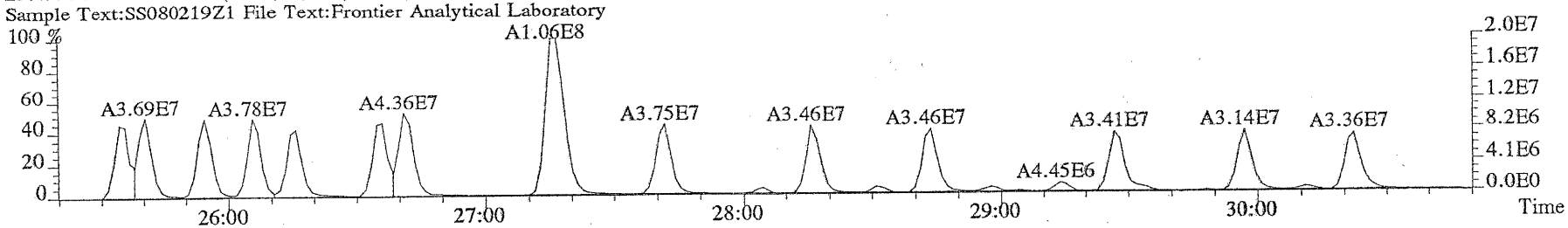
File:02AUG19Z #1-520 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



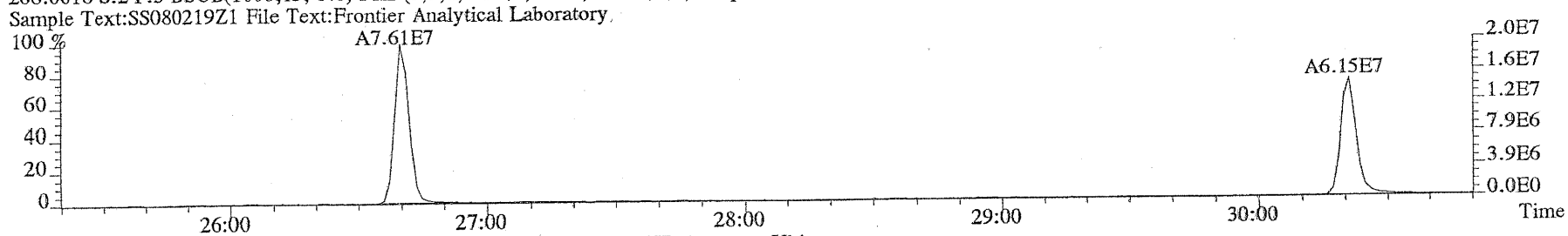
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



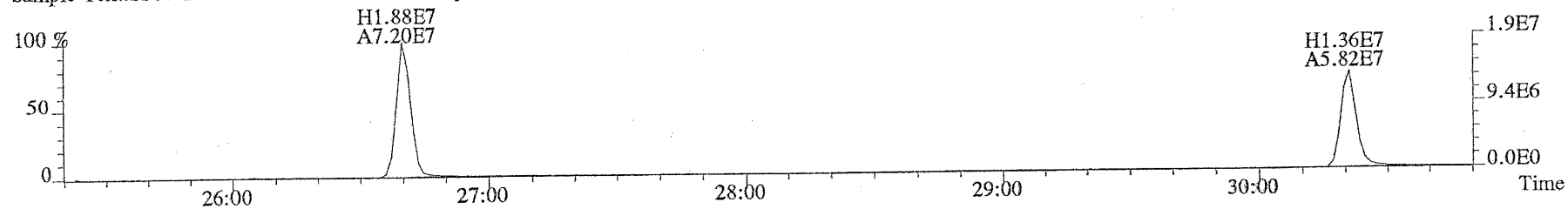
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



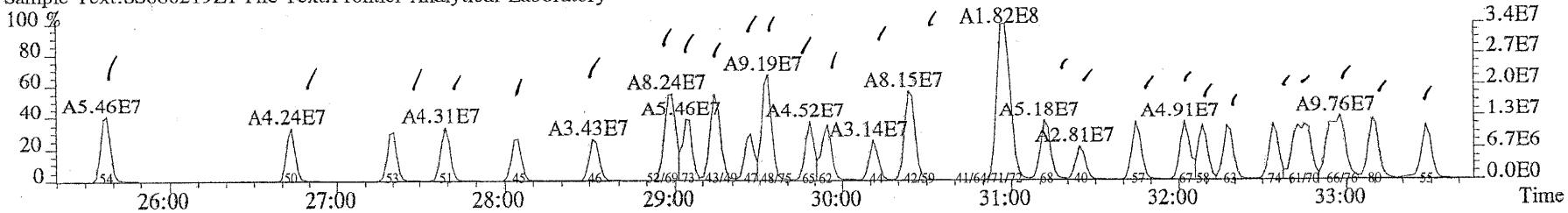
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



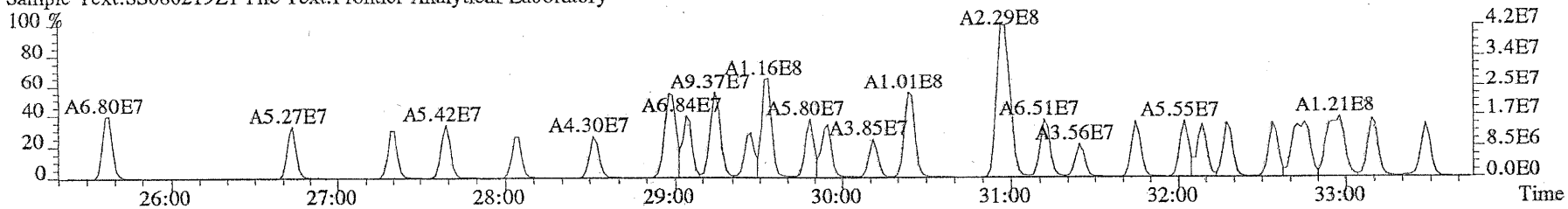
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



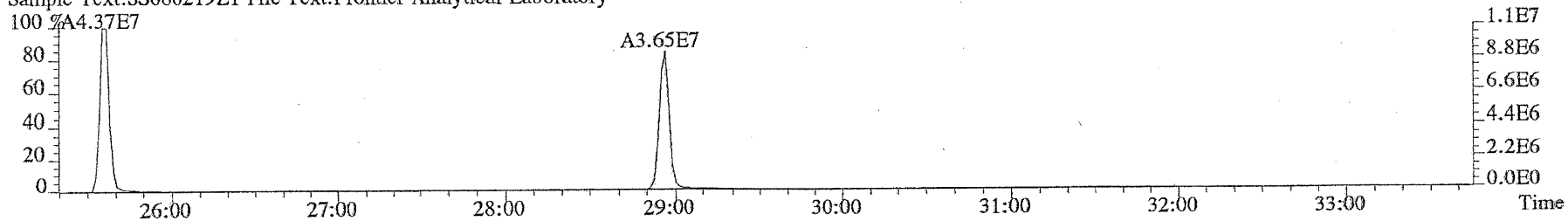
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



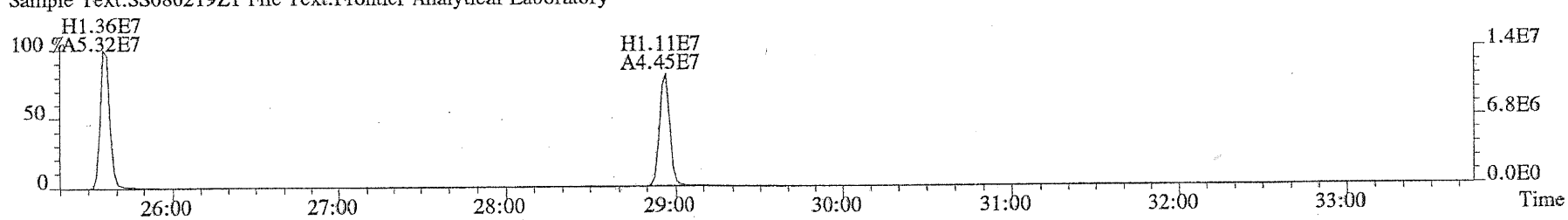
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



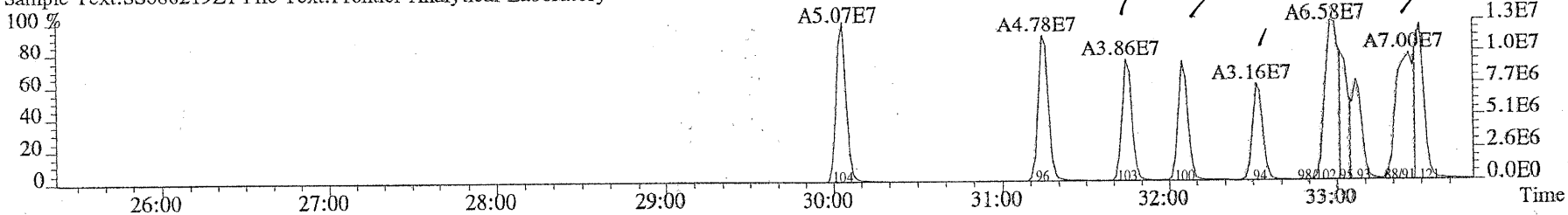
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



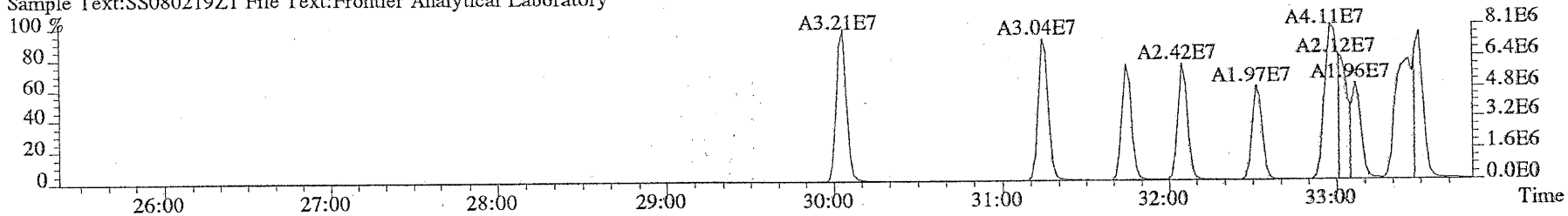
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



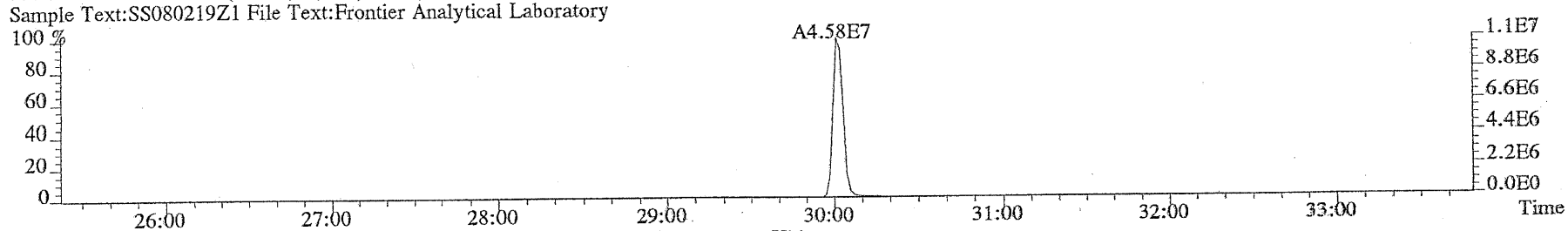
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



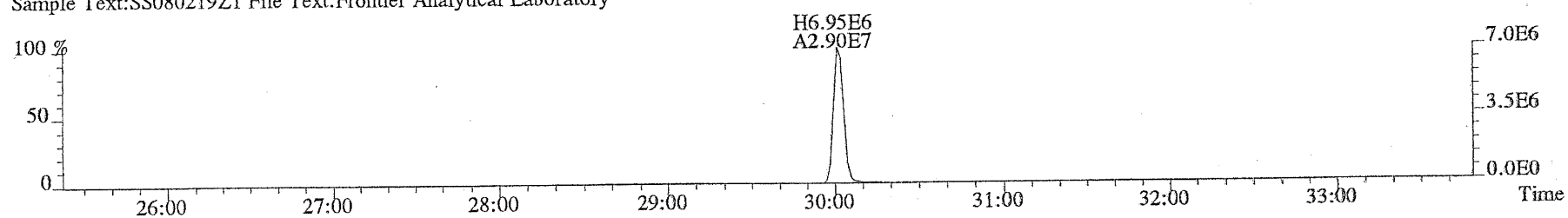
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



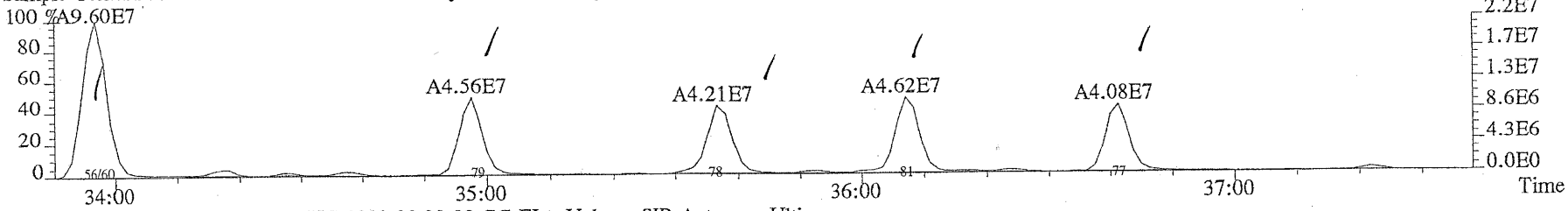
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



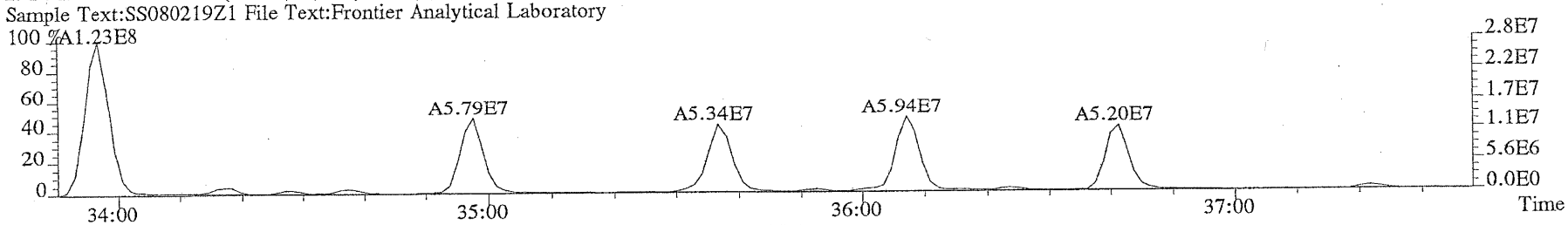
File:02AUG19Z #1-401 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



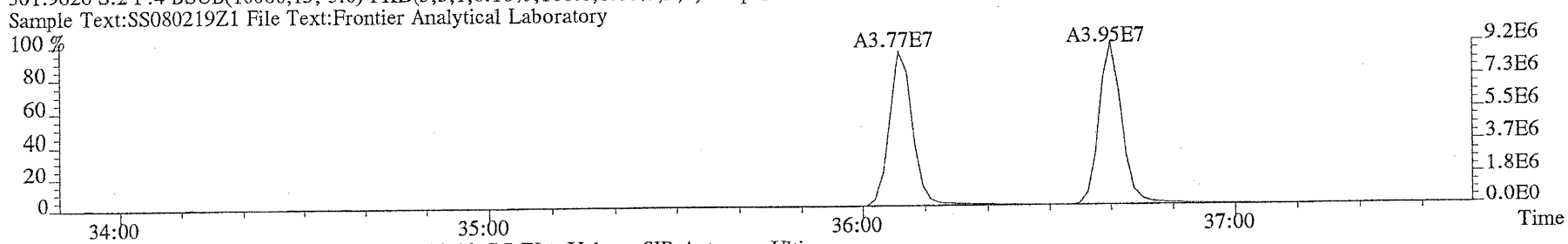
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



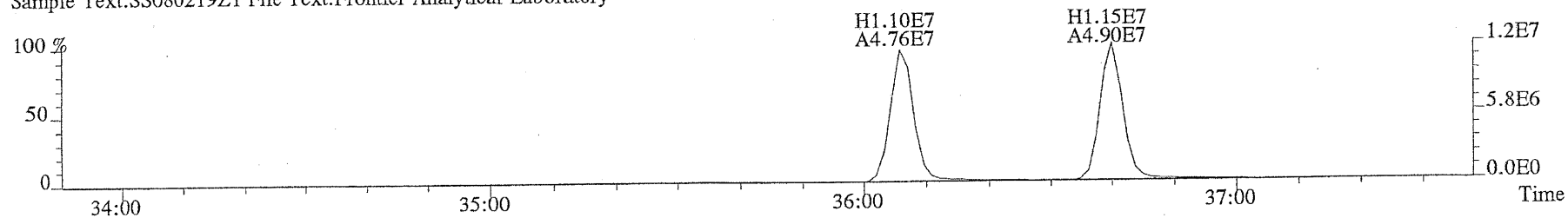
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



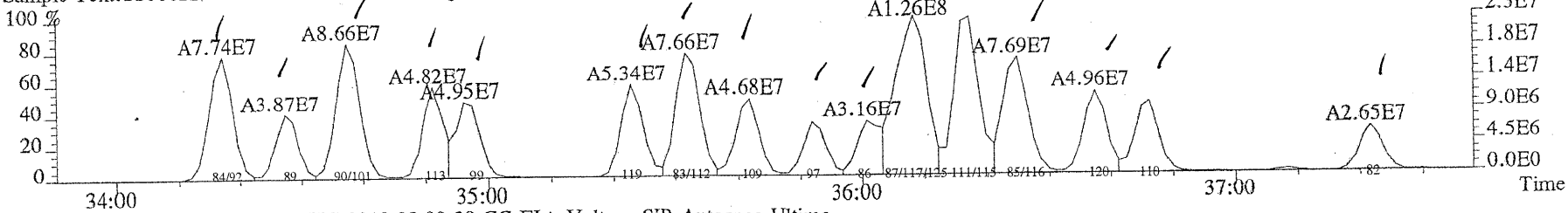
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



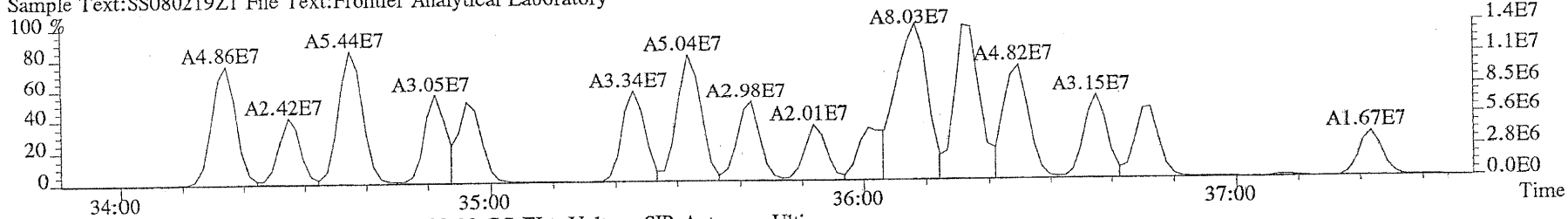
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



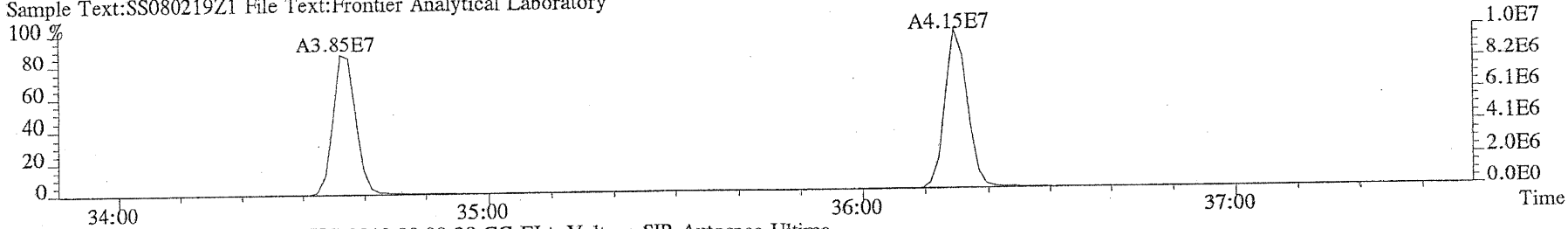
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



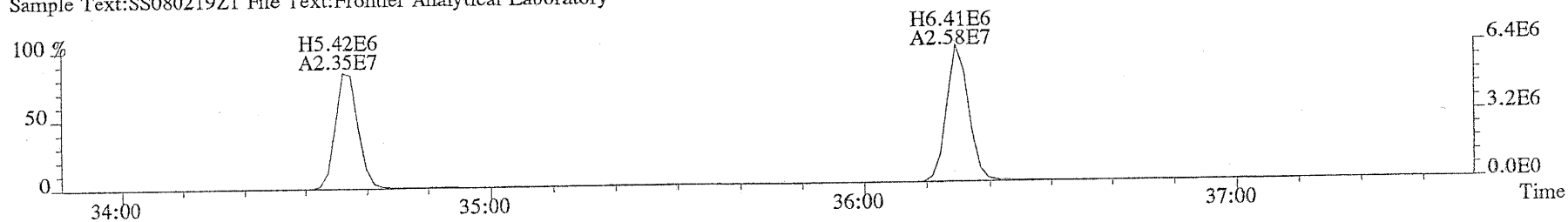
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



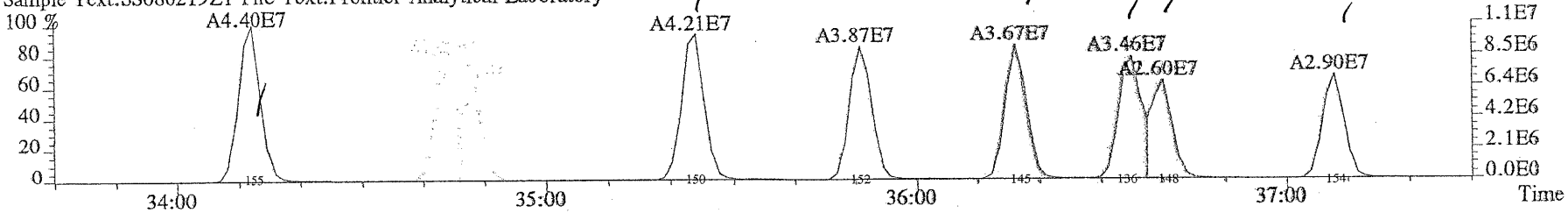
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



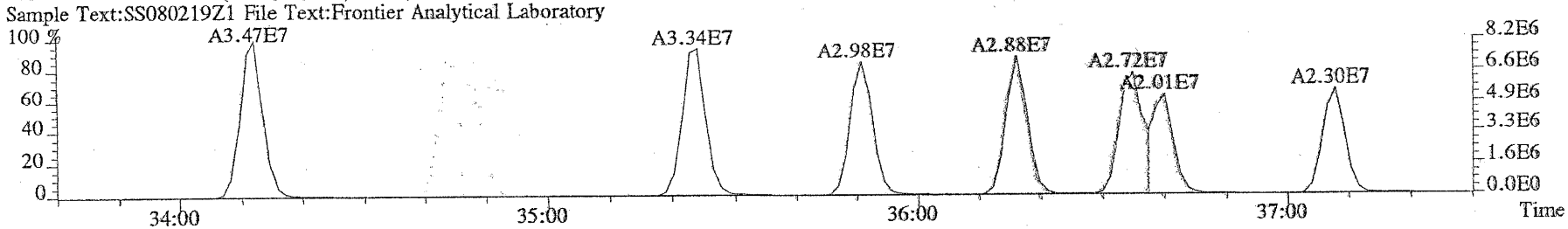
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



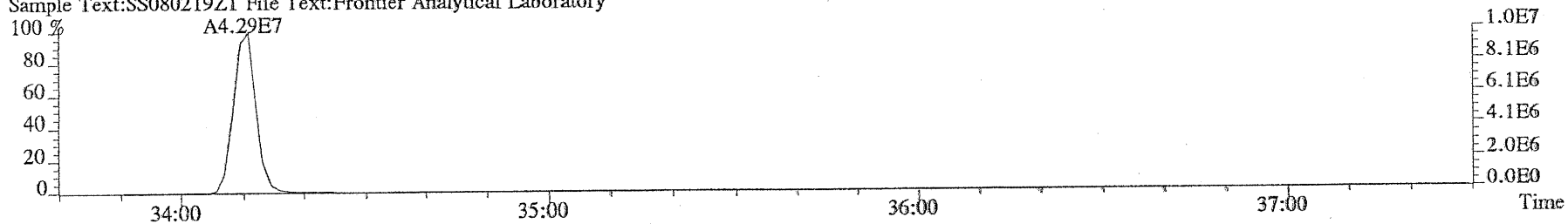
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



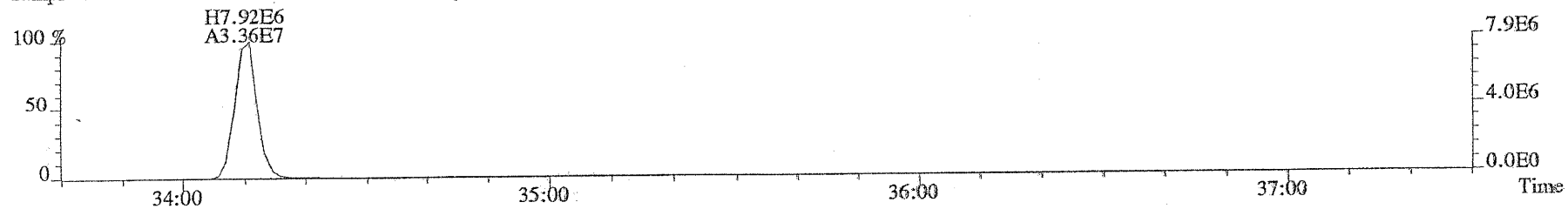
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



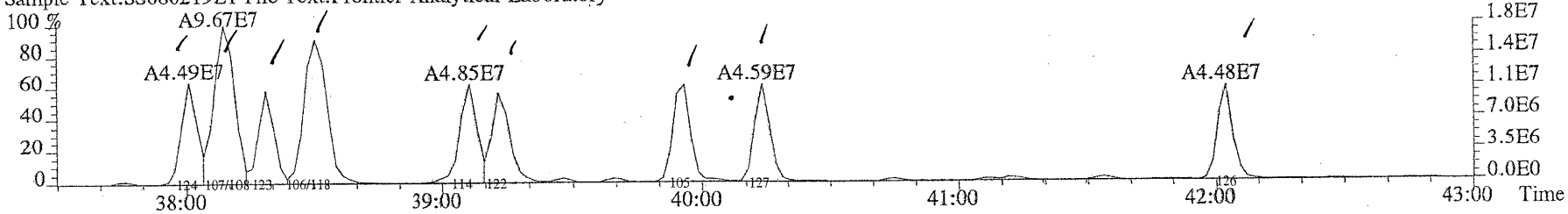
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



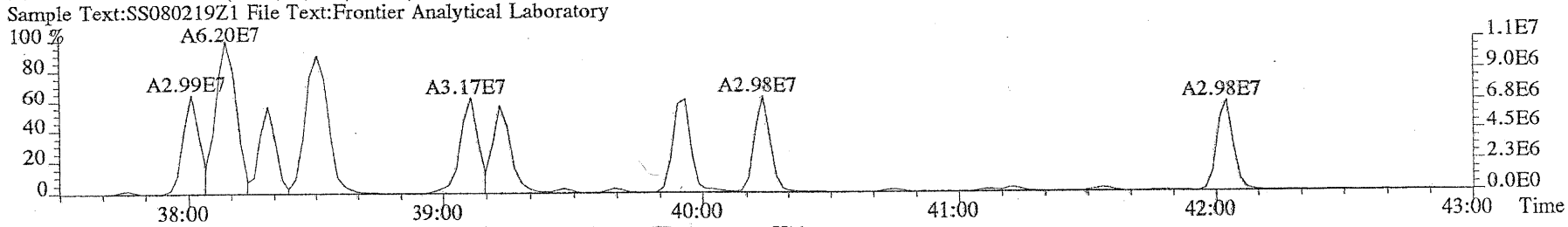
File:02AUG19Z #1-181 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



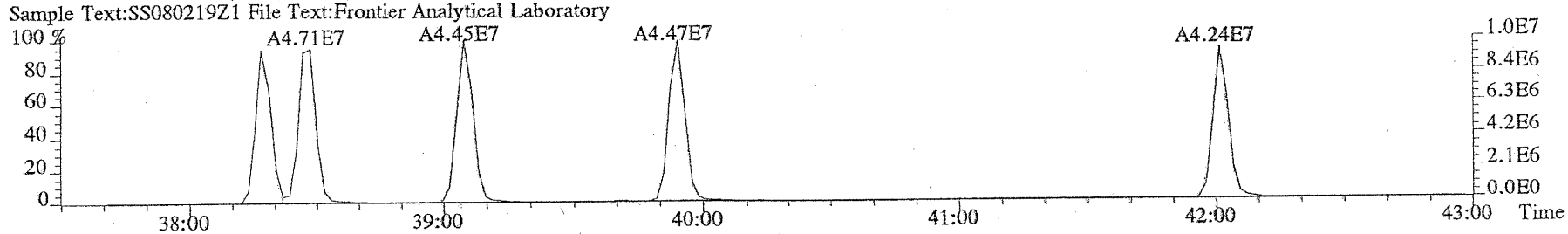
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



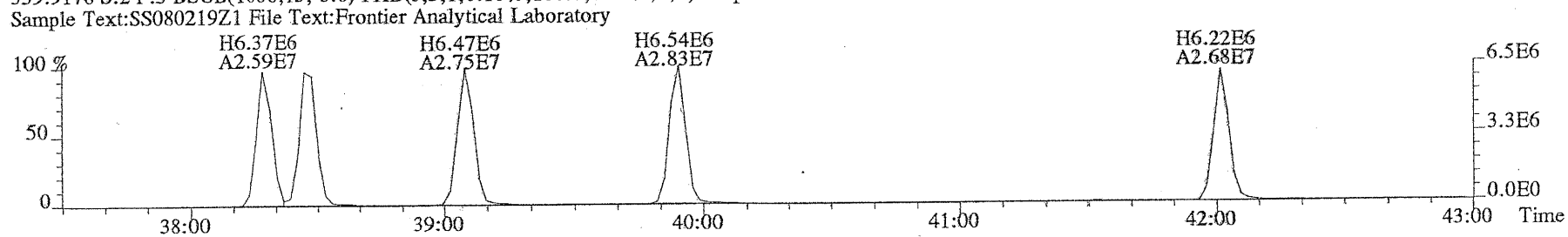
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



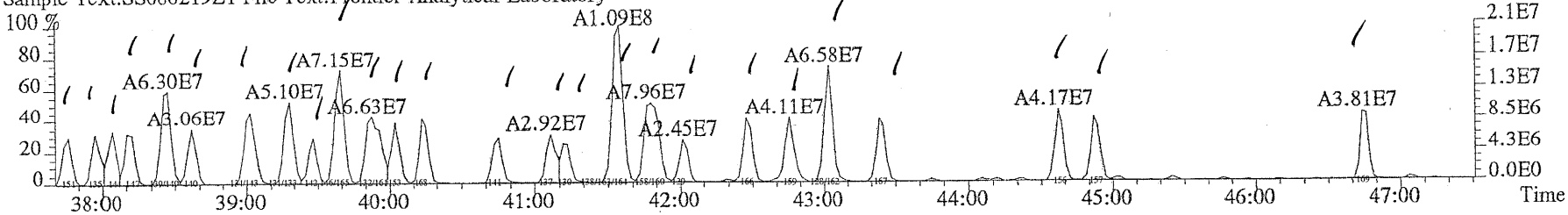
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



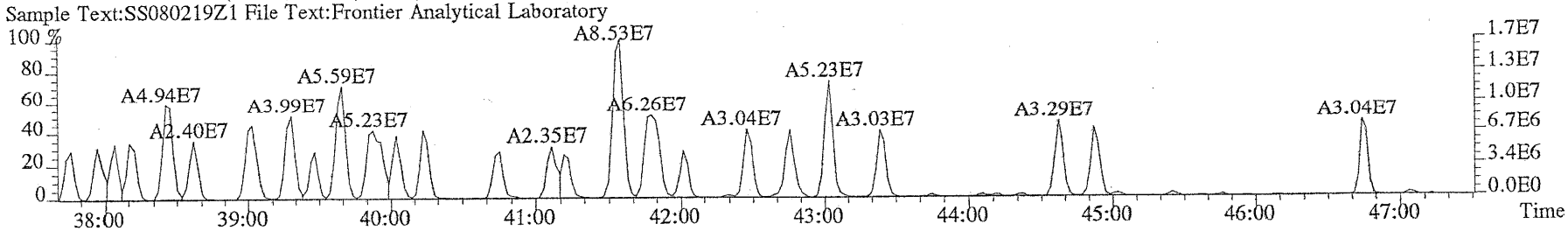
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



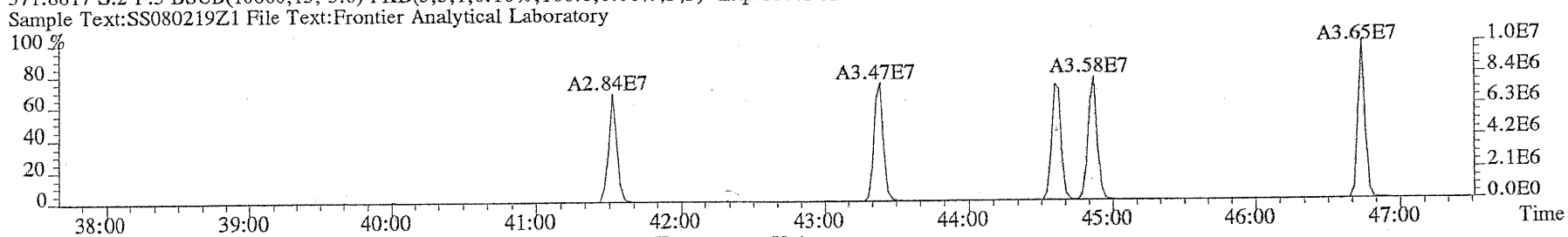
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



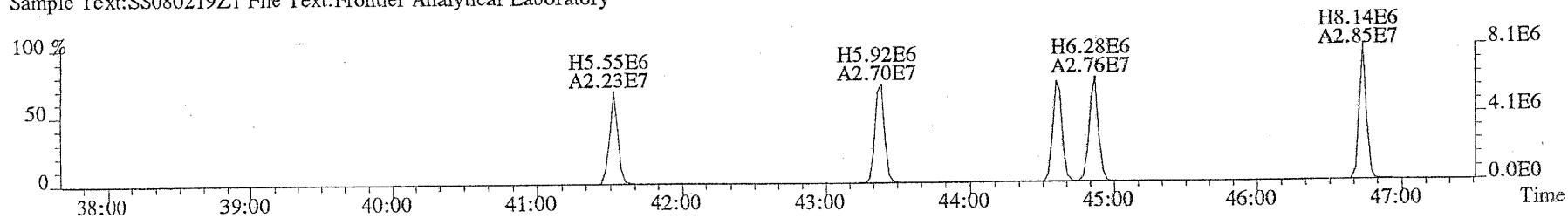
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



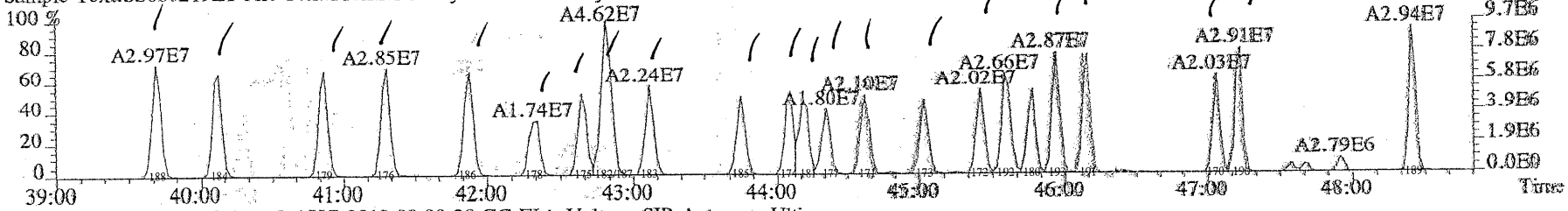
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



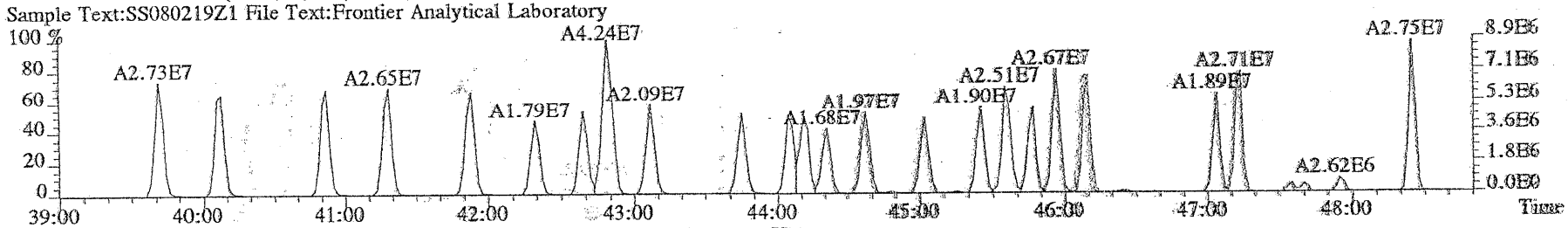
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



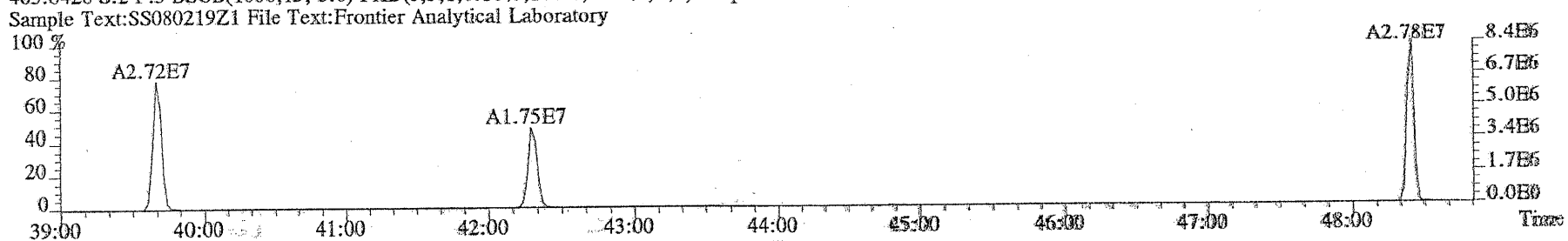
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



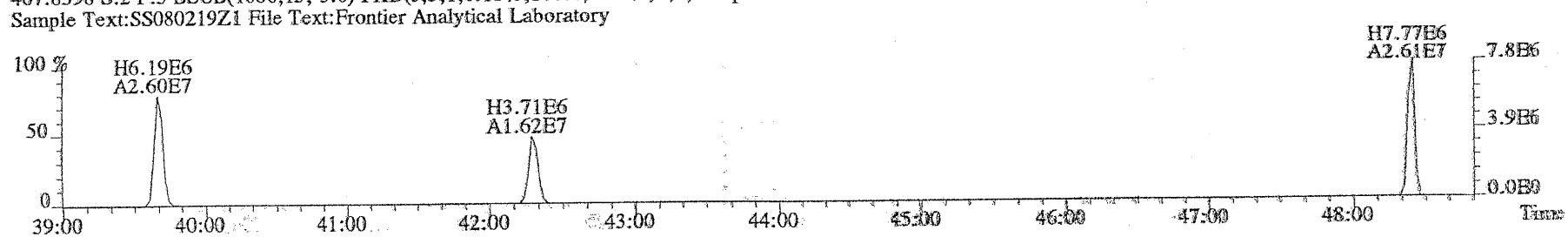
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



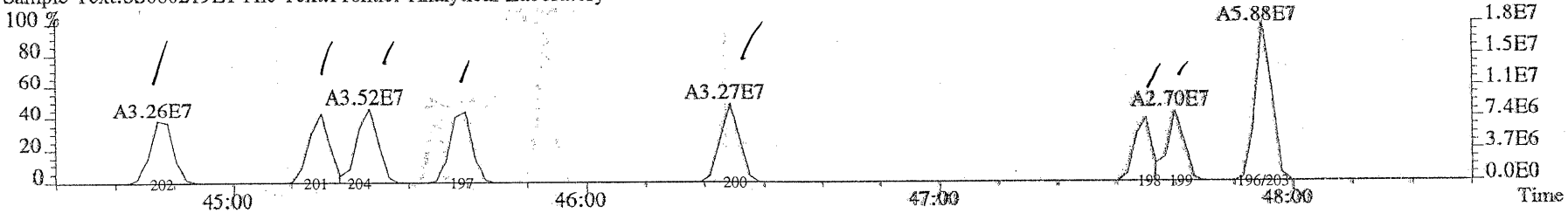
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



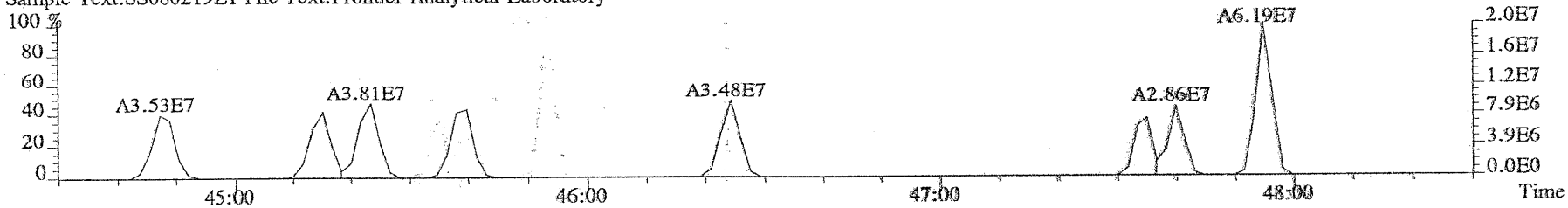
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



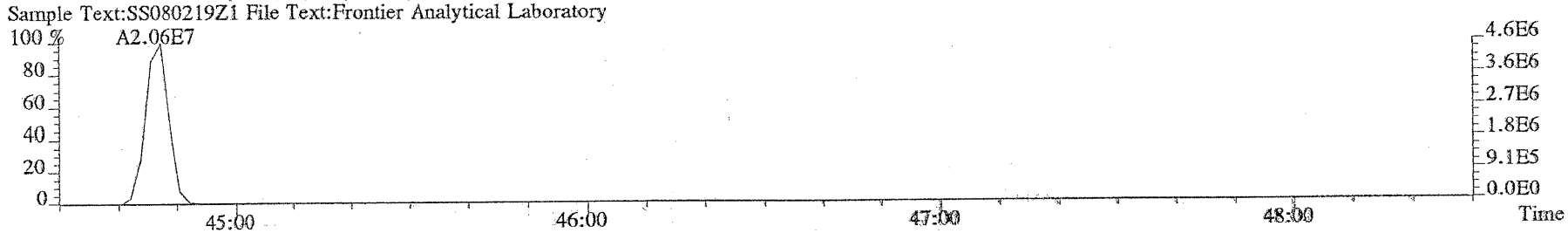
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



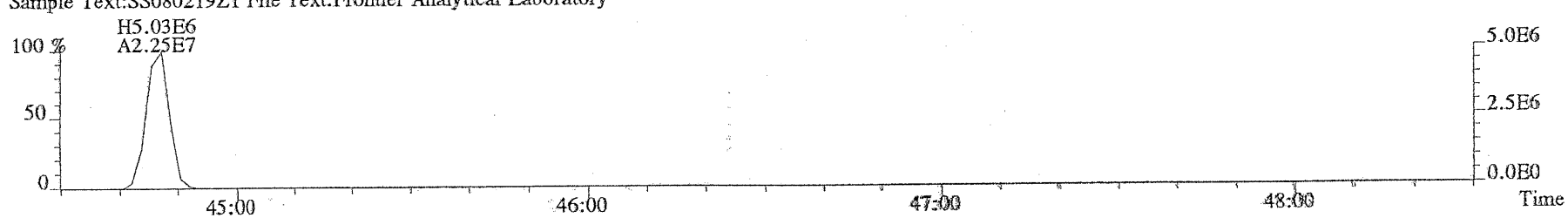
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



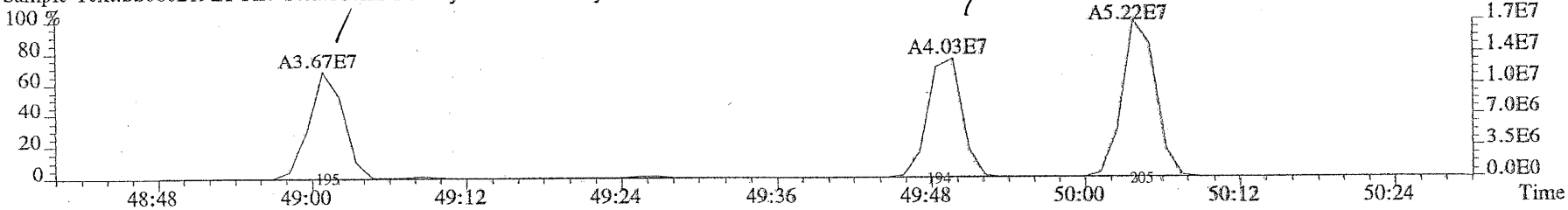
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



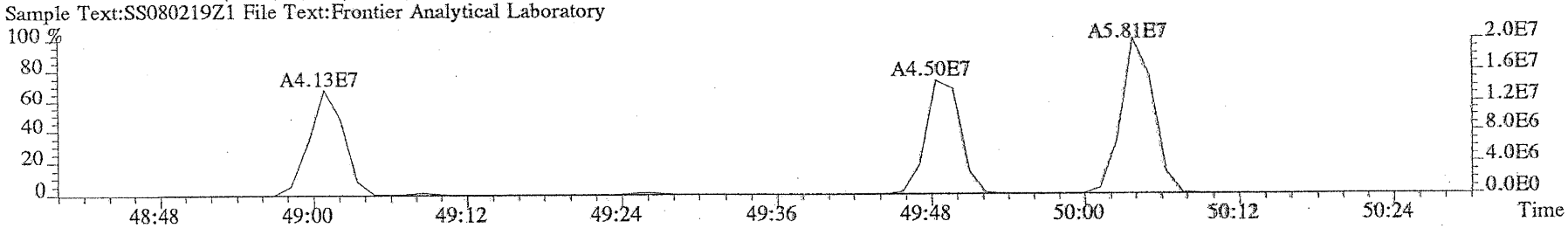
File:02AUG19Z #1-405 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



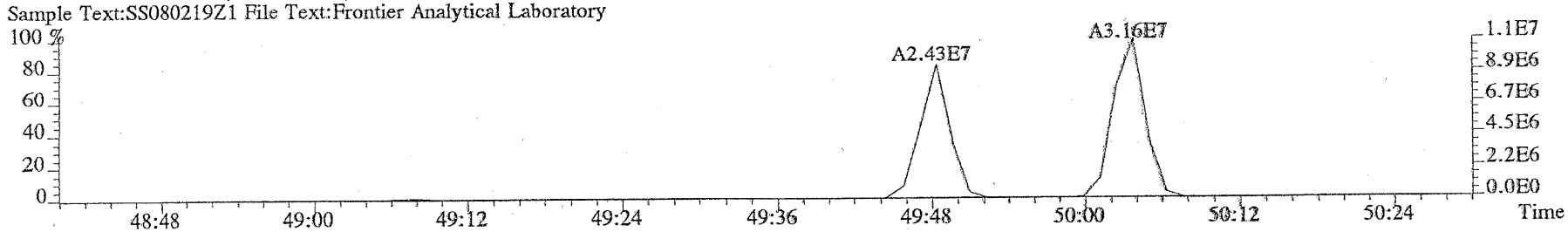
File:02AUG19Z #1-260 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



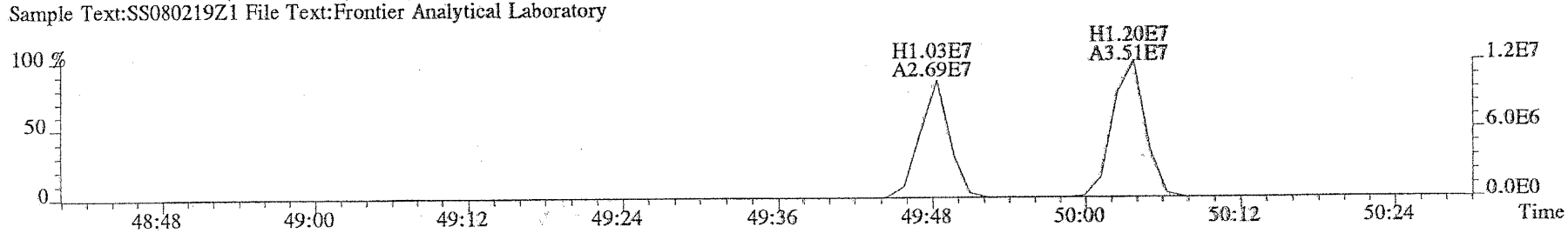
File:02AUG19Z #1-260 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



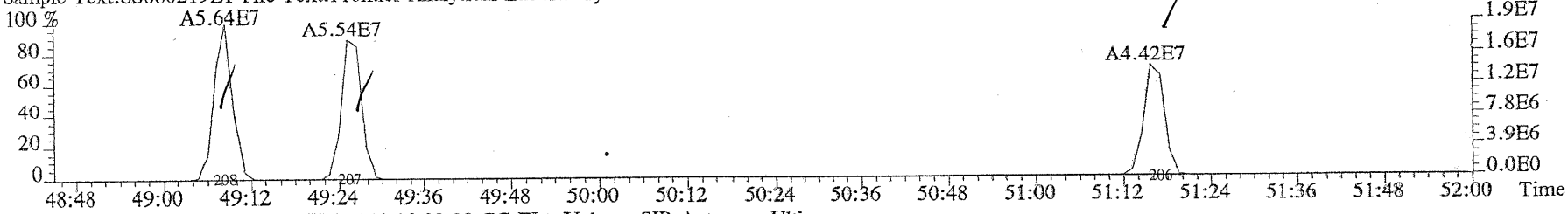
File:02AUG19Z #1-260 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



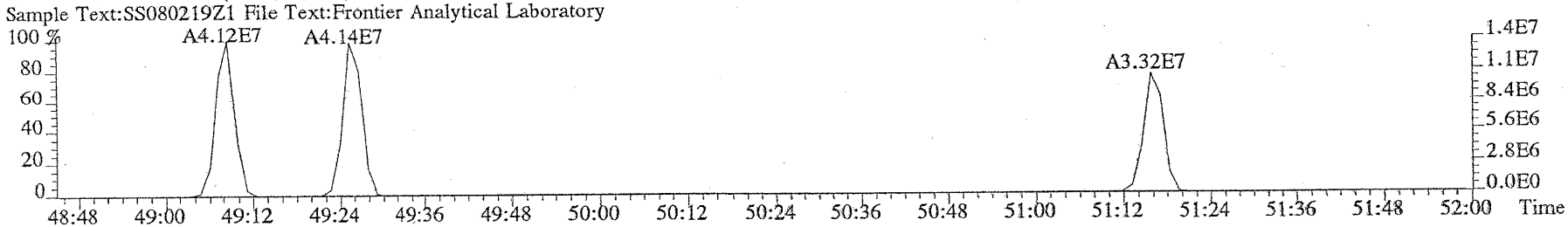
File:02AUG19Z #1-260 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



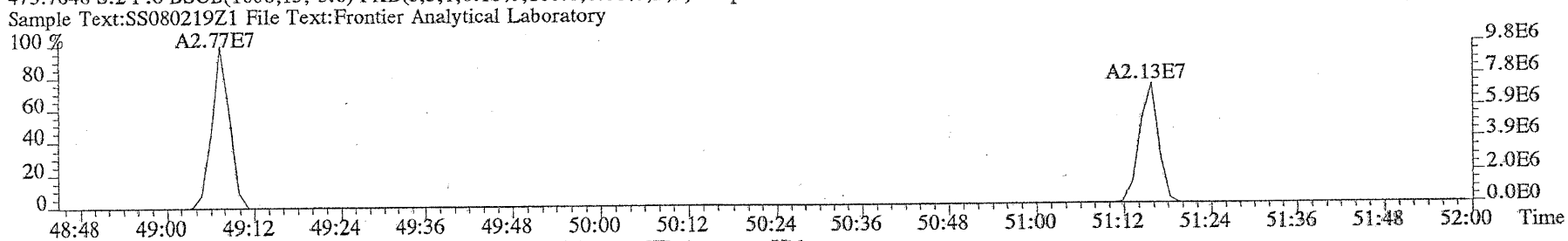
File:02AUG19Z #1-261 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



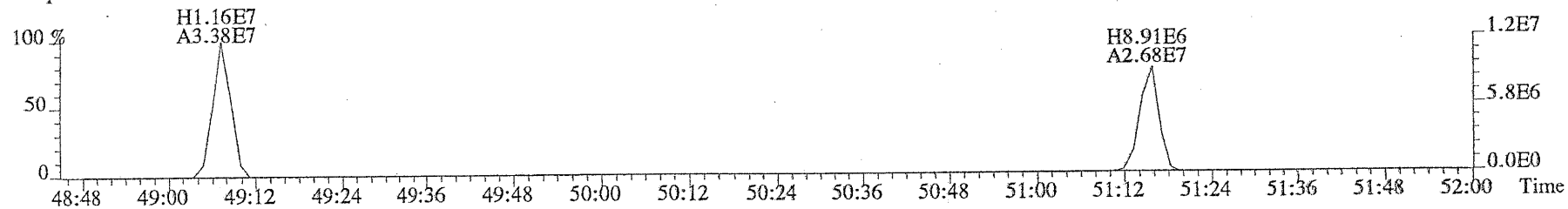
File:02AUG19Z #1-261 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



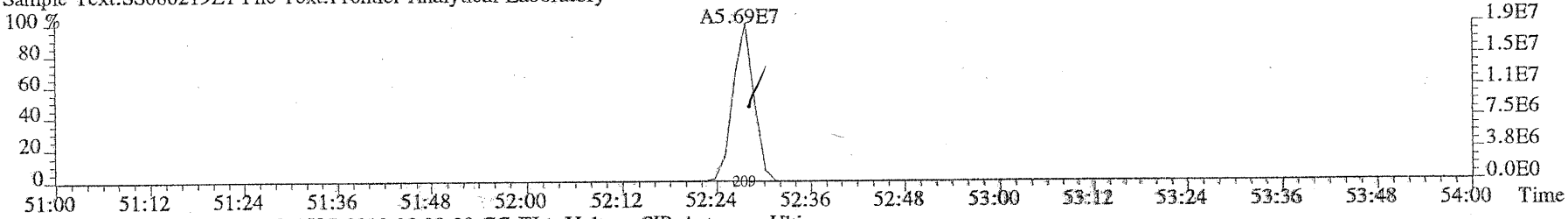
File:02AUG19Z #1-261 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



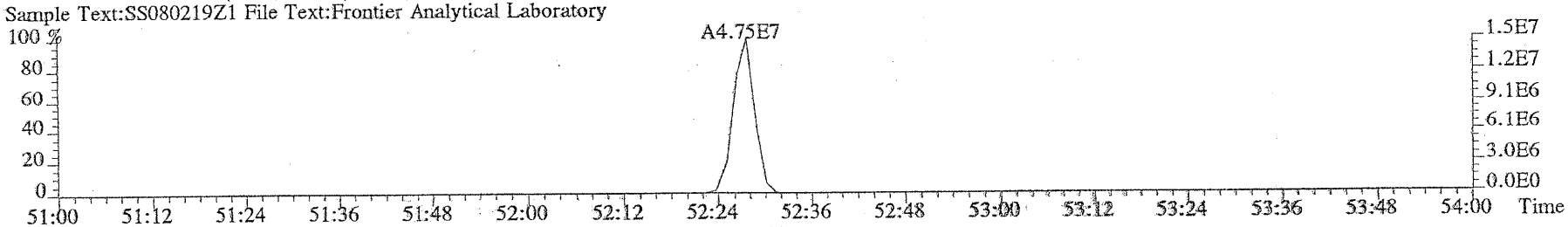
File:02AUG19Z #1-261 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



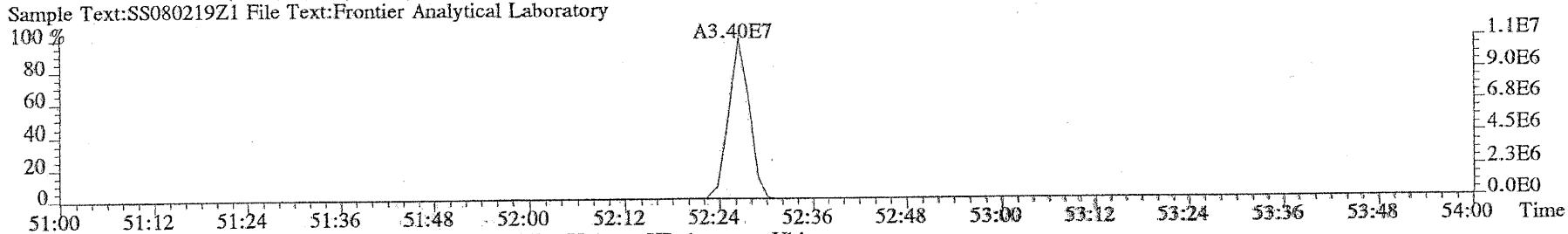
File:02AUG19Z #1-262 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



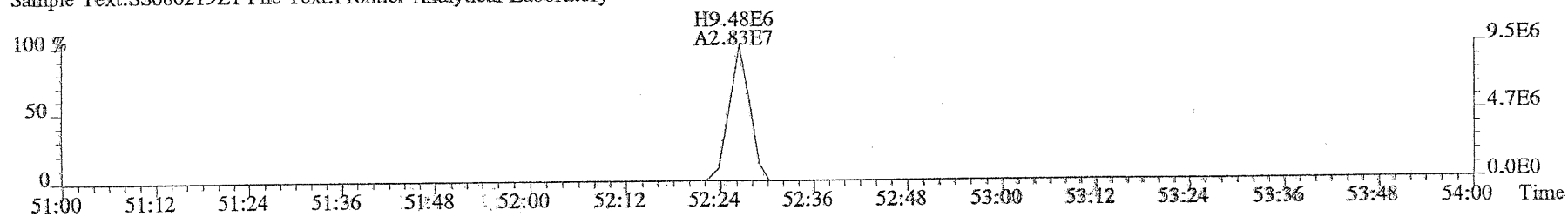
File:02AUG19Z #1-262 Acq: 2-AUG-2019 08:00:38 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS080219Z1 File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-262 Acq: 2-AUG-2019 08:00:38 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:SS080219Z1 File Text:Frontier Analytical Laboratory



File:02AUG19Z #1-262 Acq: 2-AUG-2019 08:00:38 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:SS080219Z1 File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 02AUG19Z Sam:16 Analysis Date: 2-AUG-19 21:38:52

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	50.0	37.5 - 62.5
PCB-3	M/M+2	3.11	2.66-3.60	y	50.5	37.5 - 62.5
PCB-4	M/M+2	1.57	1.33-1.79	y	51.2	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	51.0	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	52.2	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	53.1	37.5 - 62.5
PCB-54	M/M+2	0.81	0.65-0.89	y	53.4	37.5 - 62.5
PCB-77	M/M+2	0.80	0.65-0.89	y	53.6	37.5 - 62.5
PCB-81	M/M+2	0.79	0.65-0.89	y	53.2	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	51.8	37.5 - 62.5
PCB-105	M+2/M+4	1.57	1.32-1.78	y	52.5	37.5 - 62.5
PCB-114	M+2/M+4	1.56	1.32-1.78	y	53.7	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	53.6	37.5 - 62.5
PCB-123	M+2/M+4	1.52	1.32-1.78	y	51.8	37.5 - 62.5
PCB-126	M+2/M+4	1.57	1.32-1.78	y	54.3	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	50.3	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	52.2	37.5 - 62.5
PCB-157	M+2/M+4	1.29	1.05-1.43	y	51.4	37.5 - 62.5
PCB-167	M+2/M+4	1.28	1.05-1.43	y	53.2	37.5 - 62.5
PCB-169	M+2/M+4	1.28	1.05-1.43	y	53.6	37.5 - 62.5
PCB-188	M+2/M+4	1.03	0.89-1.21	y	50.7	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	52.4	37.5 - 62.5
PCB-202	M+2/M+4	0.93	0.76-1.02	y	51.9	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	55.4	37.5 - 62.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	51.7	37.5 - 62.5
PCB-208	M+4/M+6	1.37	1.13-1.53	y	53.3	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	51.1	37.5 - 62.5

Analyst: Date: 8/5/19

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 4/3/19

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 02AUG19Z Sam:16 Analysis Date: 2-AUG-19 21:38:52

	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	100	50.0 - 145
13C-PCB-3	M/M+2	3.22	2.66-3.60	y	97.5	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	102	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	87.2	50.0 - 145
13C-PCB-19	M/M+2	1.07	0.88-1.20	y	101	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	89.6	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	115	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	96.8	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	98.3	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	109	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	98.3	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	96.8	50.0 - 145
13C-PCB-118	M+2/M+4	1.59	1.32-1.78	y	97.6	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	99.5	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	94.4	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	109	50.0 - 145
13C-PCB-156	M+2/M+4	1.31	1.05-1.43	y	96.6	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	95.6	50.0 - 145
13C-PCB-167	M+2/M+4	1.30	1.05-1.43	y	93.9	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	100	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	98.7	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	114	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	98.7	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	95.9	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	98.9	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	96.0	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	99.3	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	113	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	100	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	103	75.0 - 125

Analyst: [signature] Date: 8/5/19

FAL ID: ST080219Z2 Filename: 02AUG19Z Sam:16 Acquired: 2-AUG-19 21:38:52 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 02AUG19Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	8.42e+07	3.21 y	14:31	1.19	50.0		2.50	-	-	*	-
13C-PCB-1	1.41e+08	3.17 y	14:30	1.02	100		2.50				100
PCB-3	7.72e+07	3.11 y	16:56	1.18	50.5		2.50	-	-	*	-
13C-PCB-3	1.30e+08	3.22 y	16:56	0.97	97.5		2.50				97.5
PCB-4	5.53e+07	1.57 y	18:10	1.04	51.2		2.50	-	-	*	-
13C-PCB-4	1.04e+08	1.60 y	18:10	0.74	102		2.50				102
PCB-15	6.08e+07	1.56 y	23:42	1.03	51.0		2.50	-	-	*	-
13C-PCB-15	1.16e+08	1.61 y	23:41	0.96	87.2		2.50				87.2
PCB-19	4.25e+07	1.06 y	22:03	1.11	52.2		2.50	-	-	*	-
13C-PCB-19	7.34e+07	1.07 y	22:02	0.53	101		2.50				101
13C-PCB-9	1.38e+08	1.62 y	19:50	-	178		2.50				
PCB-37	4.28e+07	1.05 y	30:21	1.04	53.1		2.50	-	-	*	-
13C-PCB-37	7.77e+07	1.09 y	30:20	1.57	89.6		2.50				89.6
PCB-54	5.45e+07	0.81 y	25:35	1.16	53.4		2.50	-	-	*	-
13C-PCB-54	8.77e+07	0.83 y	25:34	1.38	115		2.50				115
PCB-104	3.75e+07	1.57 y	30:01	1.08	51.8		2.50	-	-	*	-
13C-PCB-104	6.69e+07	1.61 y	29:59	1.11	109		2.50				109
13C-PCB-28	1.06e+08	1.04 y	26:38	1.71	113		2.50				113
13C-PCB-52	5.53e+07	0.81 y	28:54	-	145		2.50				
PCB-81	3.30e+07	0.79 y	36:06	1.06	53.2		2.50	-	-	*	-
13C-PCB-81	5.83e+07	0.81 y	36:04	1.50	98.3		2.50				98.3
PCB-77	3.28e+07	0.80 y	36:40	1.02	53.6		2.50	-	-	*	-
13C-PCB-77	6.00e+07	0.80 y	36:39	1.57	96.8		2.50				96.8
PCB-155	3.16e+07	1.26 y	34:09	1.02	50.3		2.50	-	-	*	-
13C-PCB-155	6.13e+07	1.28 y	34:08	1.42	109		2.50				109
13C-PCB-111	5.10e+07	1.61 y	36:13	1.29	100		2.50				100
13C-PCB-101	3.96e+07	1.65 y	34:35	-	120		2.50				
PCB-123	2.85e+07	1.52 y	38:17	1.03	51.8		2.50	-	-	*	-
13C-PCB-123	5.33e+07	1.59 y	38:15	1.40	99.5		2.50				99.5
PCB-118	3.13e+07	1.54 y	38:27	1.02	53.6		2.50	-	-	*	-
13C-PCB-118	5.74e+07	1.59 y	38:27	1.53	97.6		2.50				97.6
PCB-114	2.93e+07	1.56 y	39:05	1.01	53.7		2.50	-	-	*	-
13C-PCB-114	5.37e+07	1.60 y	39:03	1.45	96.8		2.50				96.8
PCB-105	2.89e+07	1.57 y	39:54	1.02	52.5		2.50	-	-	*	-
13C-PCB-105	5.42e+07	1.60 y	39:52	1.44	98.3		2.50				98.3
PCB-126	2.73e+07	1.57 y	42:01	1.02	54.3		2.50	-	-	*	-
13C-PCB-126	4.95e+07	1.60 y	41:59	1.37	94.4		2.50				94.4
PCB-167	2.62e+07	1.28 y	43:23	1.07	53.2		2.50	-	-	*	-
13C-PCB-167	4.62e+07	1.30 y	43:21	1.28	93.9		2.50				93.9
PCB-156	2.62e+07	1.25 y	44:35	1.10	52.2		2.50	-	-	*	-
13C-PCB-156	4.57e+07	1.31 y	44:35	1.24	96.6		2.50				96.6
PCB-157	2.68e+07	1.29 y	44:52	1.06	51.4		2.50	-	-	*	-
13C-PCB-157	4.90e+07	1.30 y	44:50	1.34	95.6		2.50				95.6
PCB-169	2.71e+07	1.28 y	46:44	1.06	53.6		2.50	-	-	*	-
13C-PCB-169	4.77e+07	1.29 y	46:42	1.24	100		2.50				100
PCB-188	2.51e+07	1.03 y	39:39	1.02	50.7		2.50	-	-	*	-
13C-PCB-188	4.87e+07	1.06 y	39:37	1.29	98.7		2.50				98.7
PCB-189	2.42e+07	1.06 y	48:24	0.99	52.4		2.50	-	-	*	-
13C-PCB-189	4.66e+07	1.06 y	48:23	1.07	114		2.50				114
PCB-202	2.11e+07	0.93 y	44:45	0.99	51.9		2.50	-	-	*	-
13C-PCB-202	4.11e+07	0.91 y	44:45	1.09	98.7		2.50				98.7
13C-PCB-178	3.17e+07	1.05 y	42:16	0.81	103		2.50				103
13C-PCB-138	3.83e+07	1.30 y	41:29	-	119		2.50				

FAL ID: ST080219Z2 Filename: 02AUG19Z Sam:16 Acquired: 2-AUG-19 21:38:52 ICal: 1668FAL4-4-3-19
Client ID: 1668 CS3 R181204D ConCal: ST072419Z1 EndCal: ST072419Z2
Results: 02AUG19Z GC Column: DB1MS Amount: 1.000

PCB-205	3.24e+07	0.89	y	50:04	1.02	55.4	2.50	-	-	*	-
13C-PCB-205	5.72e+07	0.90	y	50:02	1.40	95.9	2.50				95.9
PCB-208	2.89e+07	1.37	y	49:07	0.98	53.3	2.50	-	-	*	-
13C-PCB-208	5.57e+07	0.80	y	49:06	1.36	96.0	2.50				96.0
PCB-206	2.18e+07	1.35	y	51:14	0.99	51.7	2.50	-	-	*	-
13C-PCB-206	4.24e+07	0.80	y	51:14	1.01	98.9	2.50				98.9
PCB-209	2.85e+07	1.20	y	52:26	1.09	51.1	2.50	-	-	*	-
13C-PCB-209	5.12e+07	1.20	y	52:25	1.21	99.3	2.50				99.3
13C-PCB-194	4.26e+07	0.92	y	49:47	-	139	2.50				

Analyst: _____ Date: 8/5/19

Frontier Analytical Laboratory - Acquisition Log

Run Name:02AUG19Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

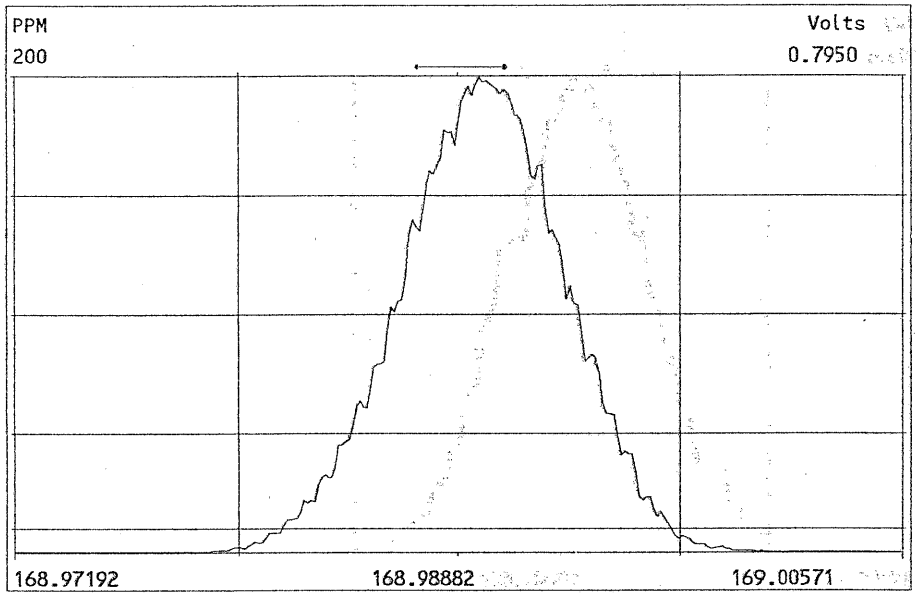
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
02AUG19Z	1	ST080219Z1	1668 CS3 R181204D	2-AUG-19 07:02:18	ST080219Z1	ST080219Z2	BS
02AUG19Z	2	SS080219Z1	Daily 209 190408A	2-AUG-19 08:00:38	ST080219Z1	ST080219Z2	BS
02AUG19Z	3	04992-001-0001-OPR	OPR	2-AUG-19 08:58:59	ST080219Z1	ST080219Z2	BS
02AUG19Z	4	04992-001-0001-MB	Method Blank	2-AUG-19 09:57:20	ST080219Z1	ST080219Z2	BS
02AUG19Z	5	12511-001-0001-SA	LDW-Y2-IN-ENR+AC-CB-S010	2-AUG-19 10:55:41	ST080219Z1	ST080219Z2	BS
02AUG19Z	6	12511-002-0001-SA	LDW-Y2-IN-ENR+AC-CC-S010	2-AUG-19 11:54:03	ST080219Z1	ST080219Z2	BS
02AUG19Z	7	12511-003-0001-SA	LDW-Y2-IN-ENR+AC-CD-S010	2-AUG-19 12:52:24	ST080219Z1	ST080219Z2	BS
02AUG19Z	8	12511-004-0001-SA	LDW-Y2-IN-ENR+AC-CE-S010	2-AUG-19 13:50:46	ST080219Z1	ST080219Z2	BS
02AUG19Z	9	12511-005-0001-SA	LDW-Y2-IN-ENR-CA-S010	2-AUG-19 14:49:07	ST080219Z1	ST080219Z2	BS
02AUG19Z	10	12511-006-0001-SA	LDW-Y2-IN-ENR-CB-S010	2-AUG-19 15:47:28	ST080219Z1	ST080219Z2	BS
02AUG19Z	11	12511-007-0001-SA	LDW-Y2-IN-ENR-CC-S010	2-AUG-19 16:46:14	ST080219Z1	ST080219Z2	BS
02AUG19Z	12	12511-008-0001-SA	LDW-Y2-IN-ENR-CD-S010	2-AUG-19 17:45:00	ST080219Z1	ST080219Z2	BS
02AUG19Z	13	12510-014-0001-SA	LDW-Y2-SU-S010-LCB	2-AUG-19 18:43:46	ST080219Z1	ST080219Z2	BS
02AUG19Z	14	12510-015-0001-SA	LDW-Y2-IN-ENR+AC-CA-S010	2-AUG-19 19:42:07	ST080219Z1	ST080219Z2	BS
02AUG19Z	15	SB080219Z1	Solvent Blank	2-AUG-19 20:40:28	ST080219Z1	ST080219Z2	BS
02AUG19Z	16	ST080219Z2	1668 CS3 R181204D	2-AUG-19 21:38:52	ST080219Z1	ST080219Z2	BS

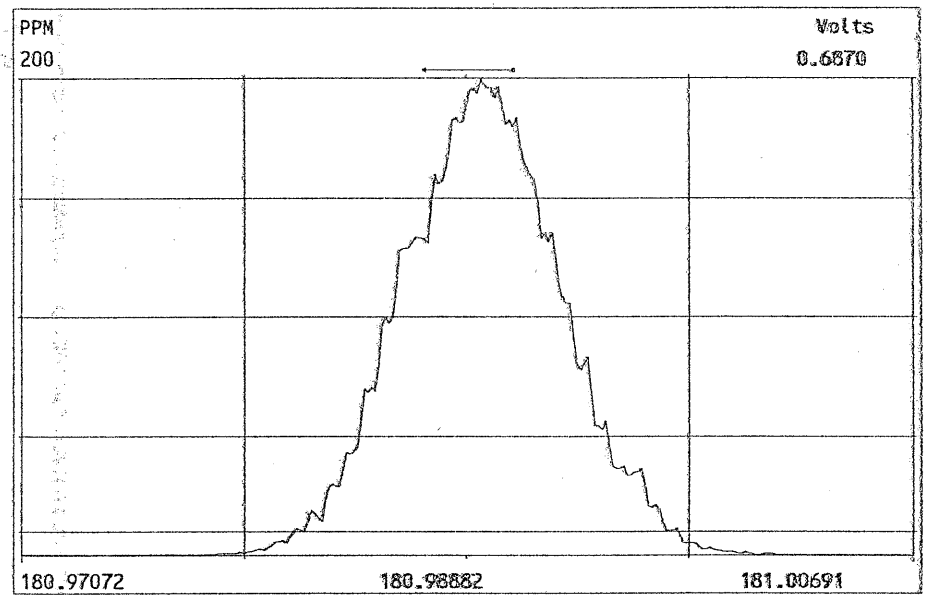
8/5/19

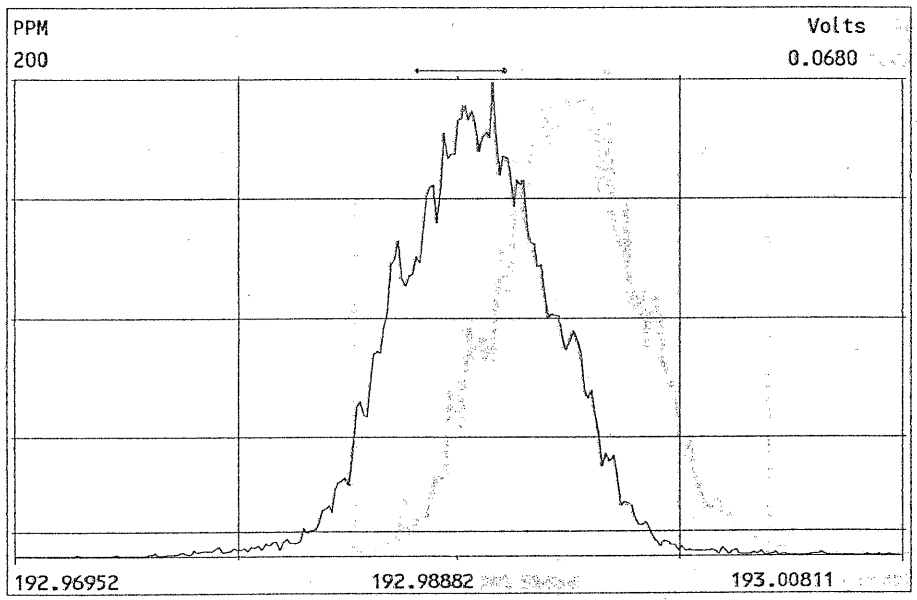
Data Backed Up:_____

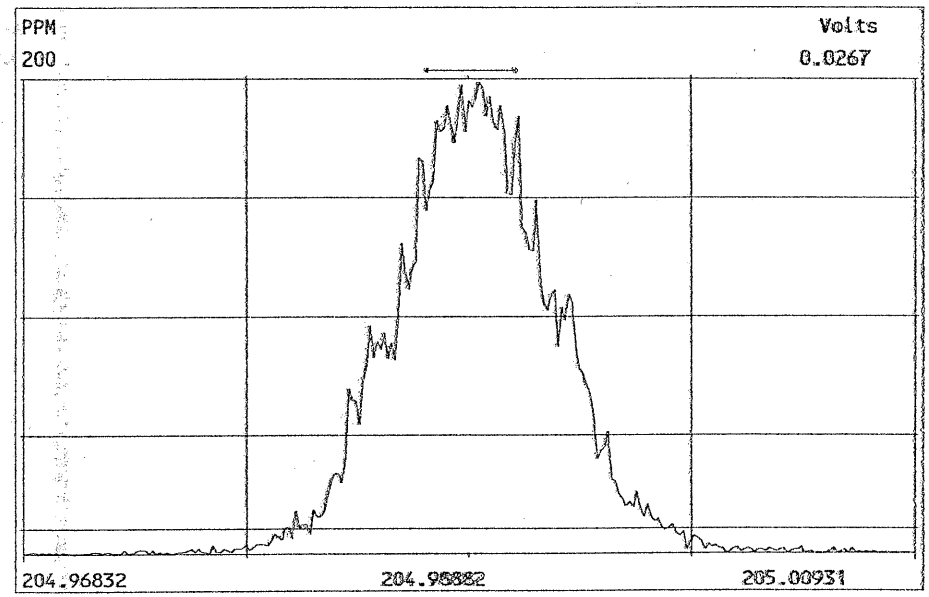
Date:_____

Peak Locate Examination: 2-AUG-2019:06:59 File:02AUG19Z
Experiment:1668PCB Function:1 Reference:PFK

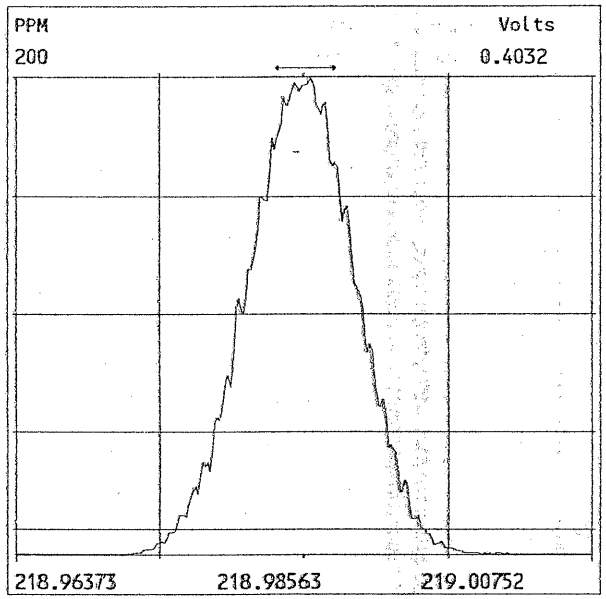


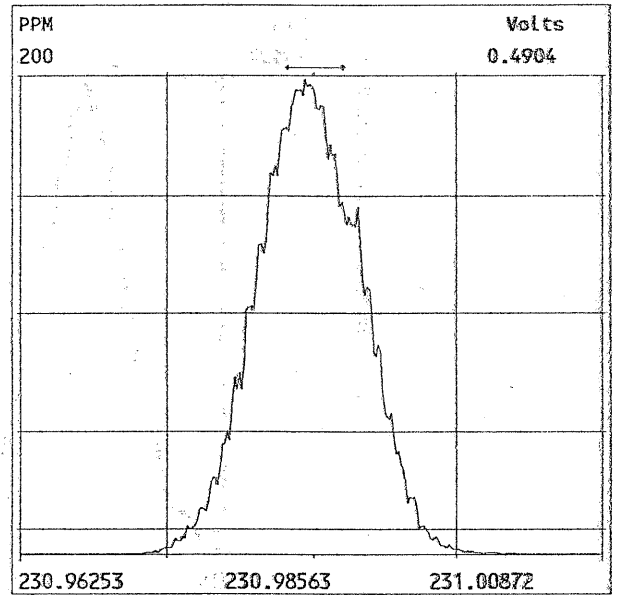


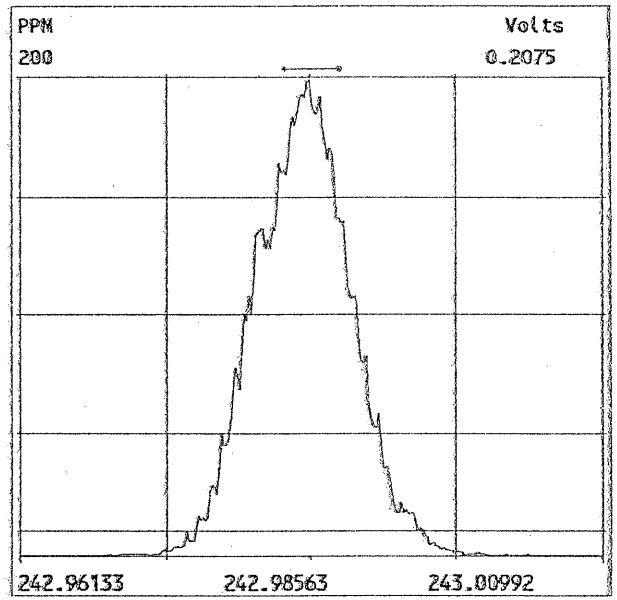


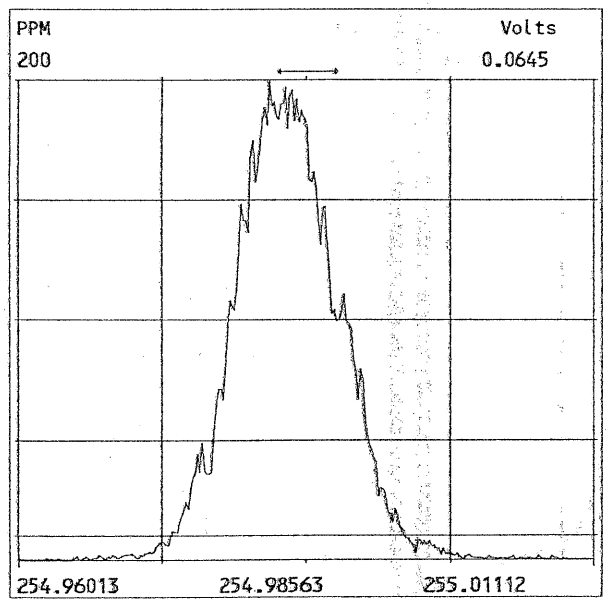


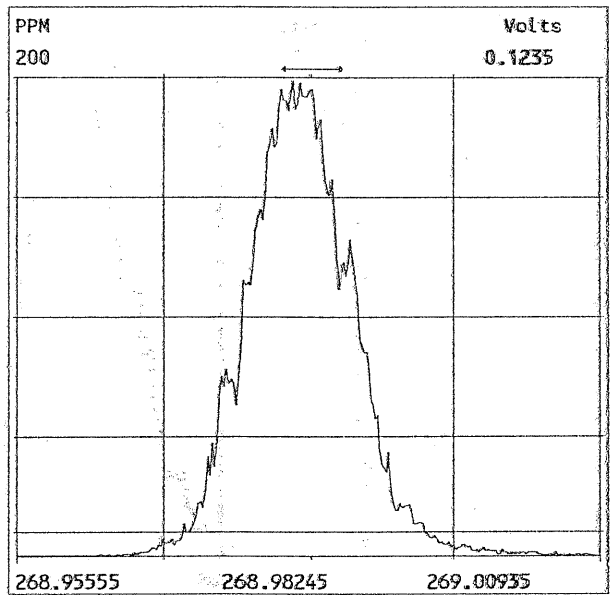
Peak Locate Examination: 2-AUG-2019:07:00 File:02AUG19Z
Experiment:1668PCB Function:2 Reference:PFK

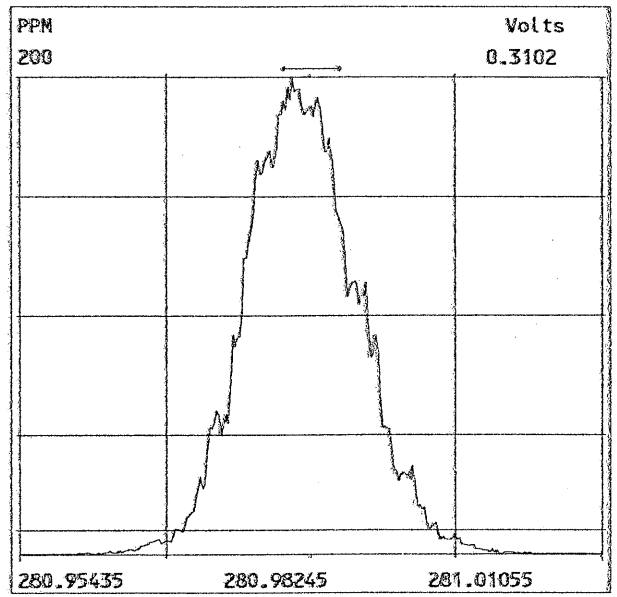




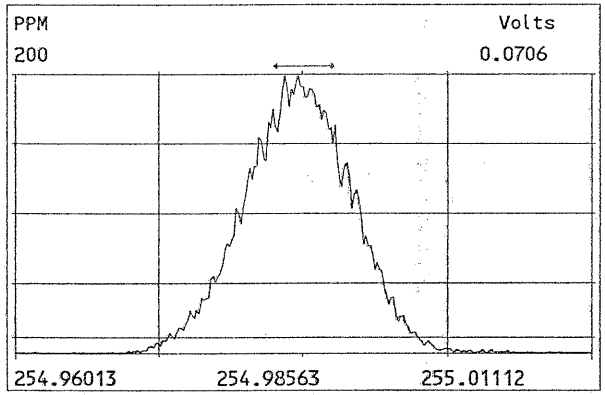


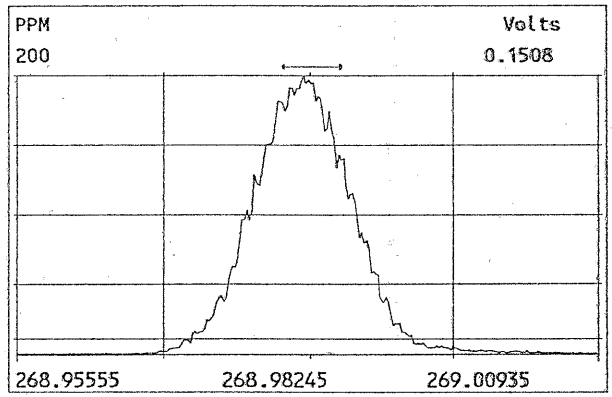


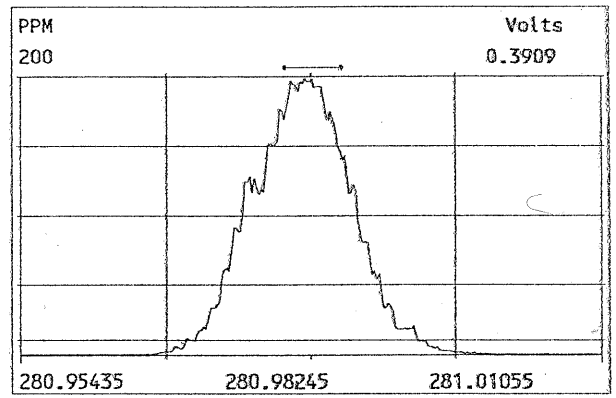


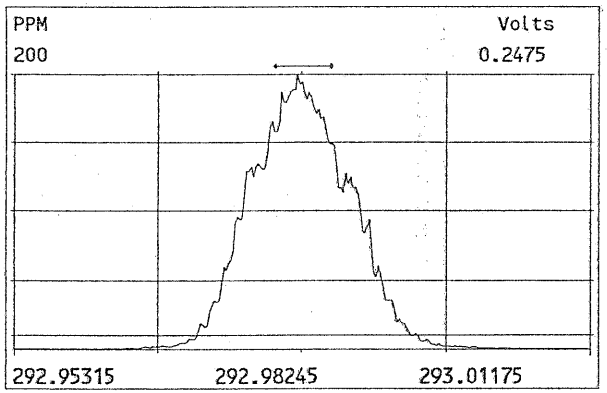


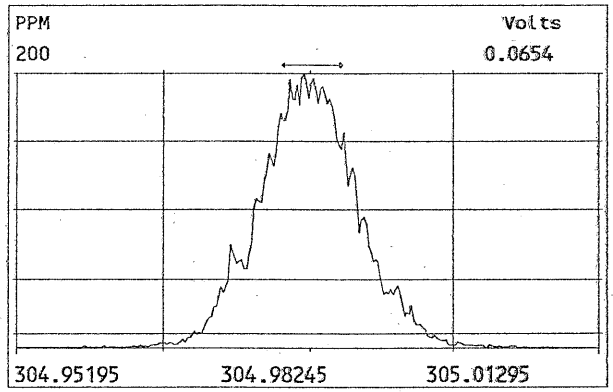
Peak Locate Examination: 2-AUG-2019:07:00 File:02AUG19Z
Experiment:1668PCB Function:3 Reference:PFK

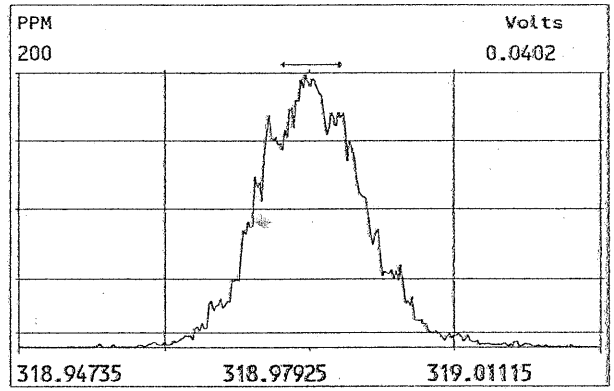


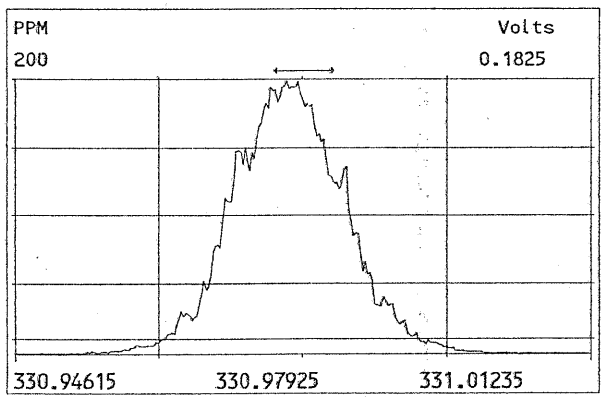


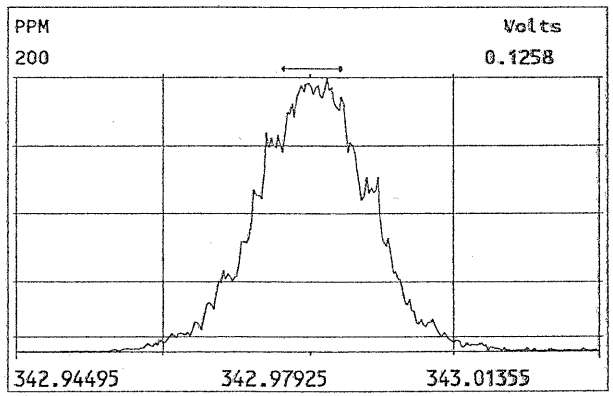




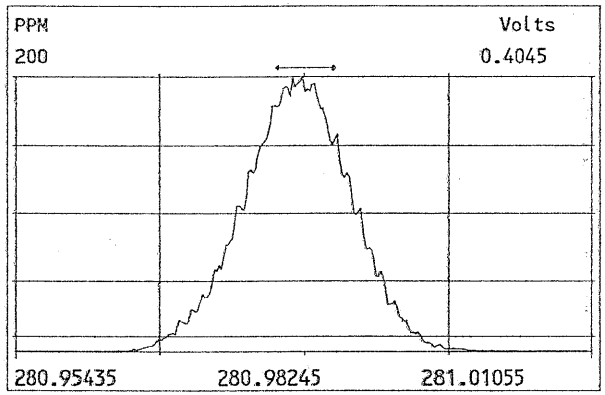


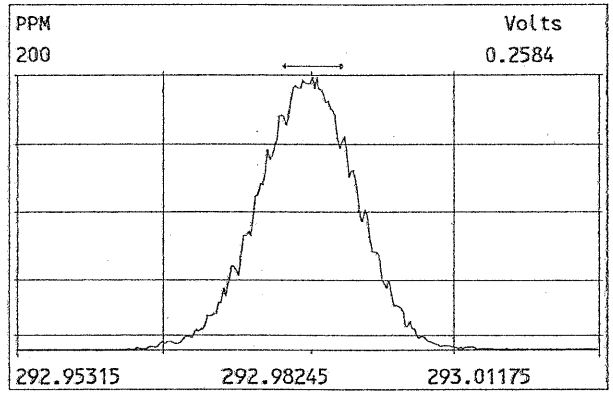


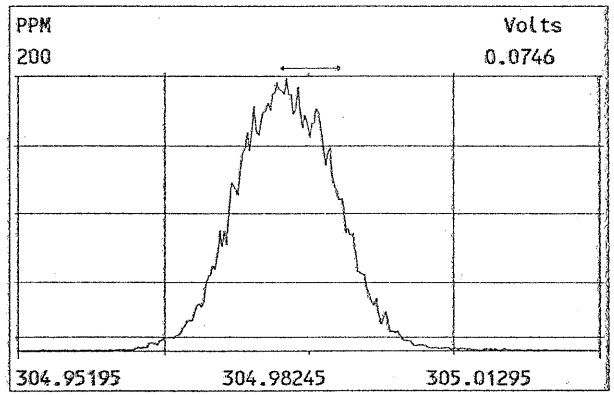


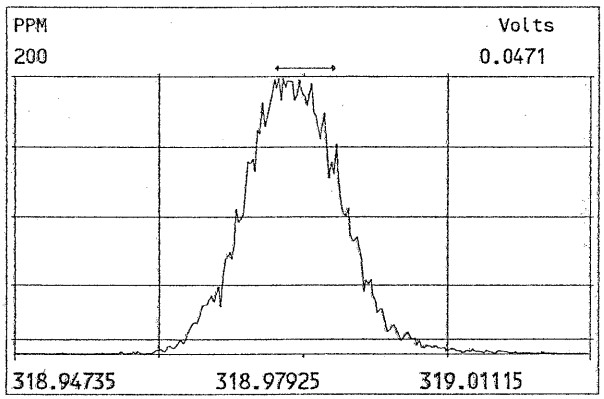


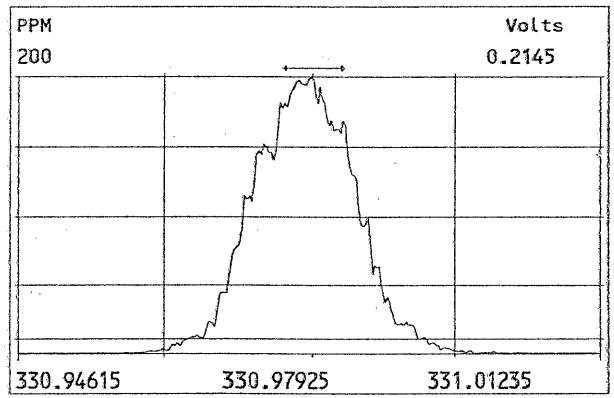
Peak Locate Examination: 2-AUG-2019:07:00 File:02AUG19Z
Experiment:1668PCB Function:4 Reference:PFK

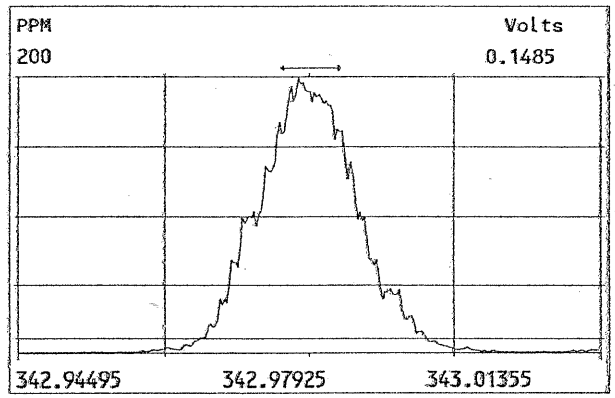


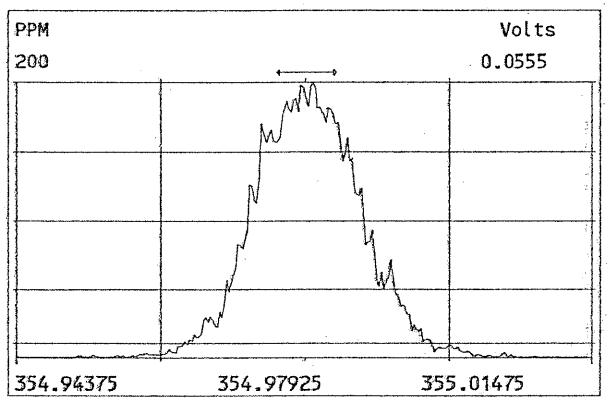


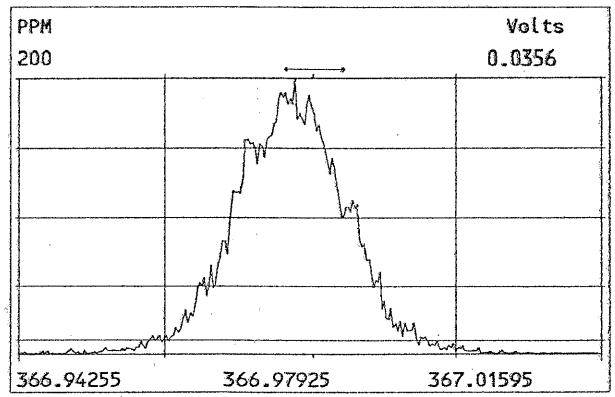


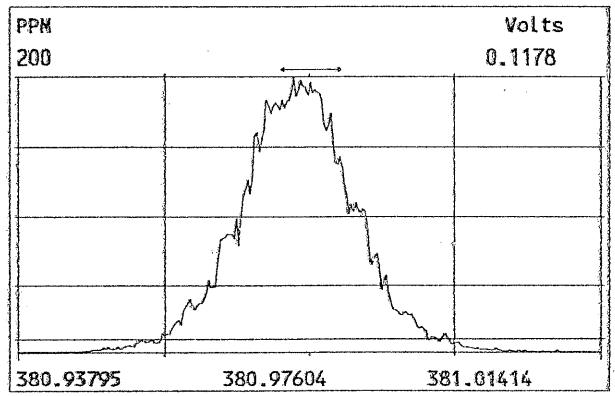




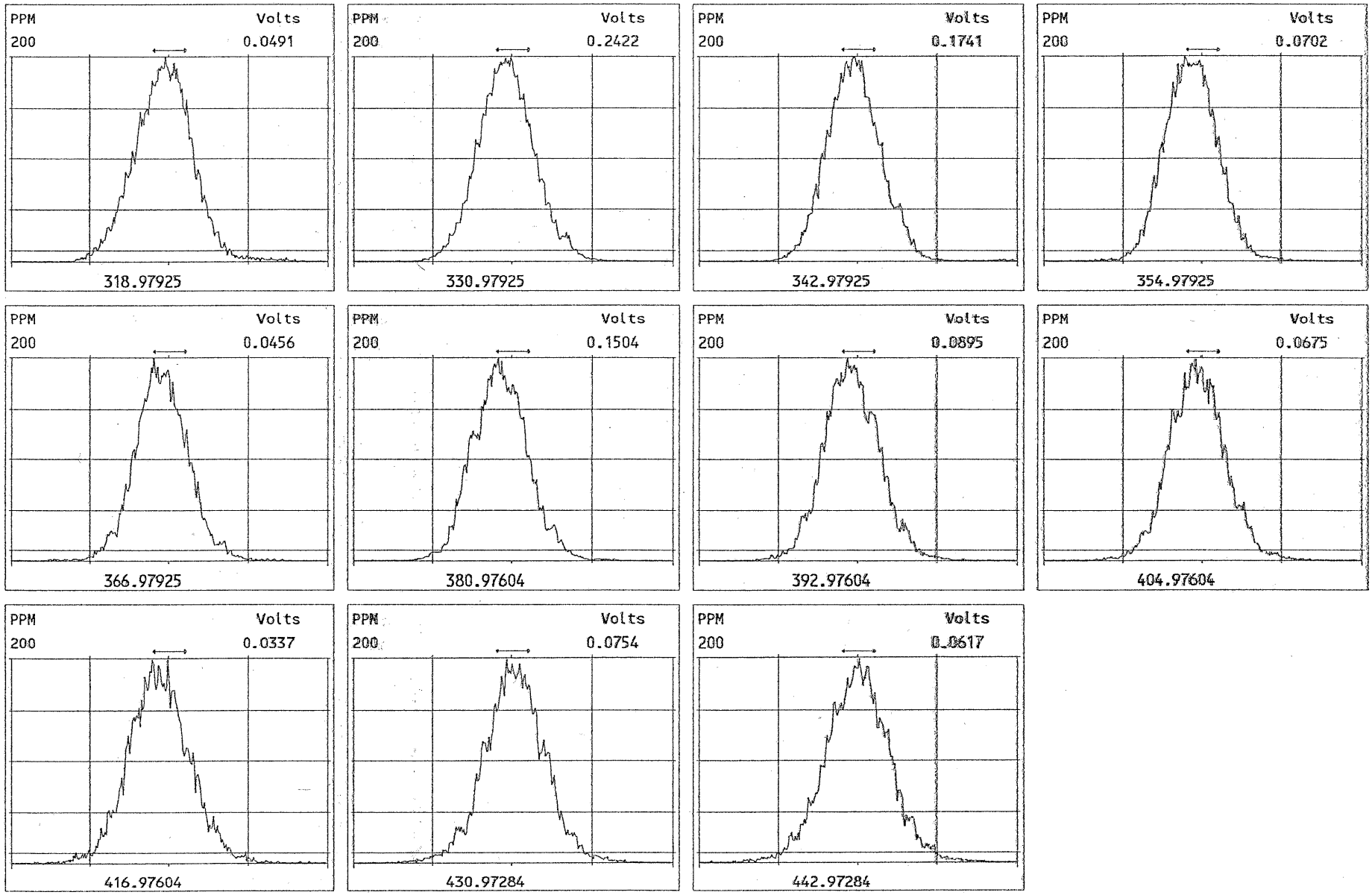




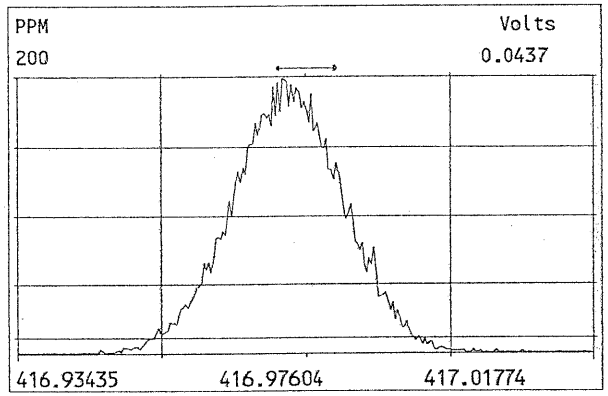


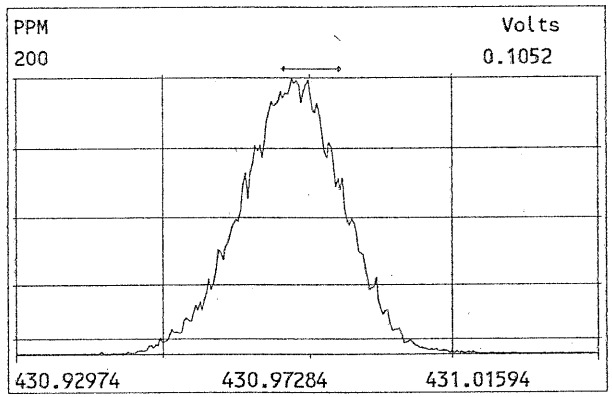


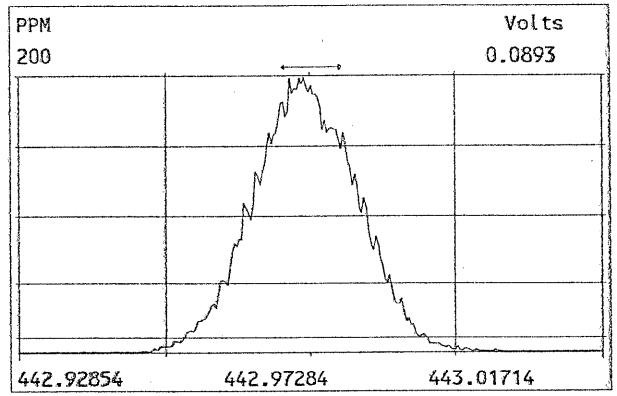
Peak Locate Examination: 2-AUG-2019:07:01 File:02AUG19Z
Experiment:1668PCB Function:5 Reference:PFK

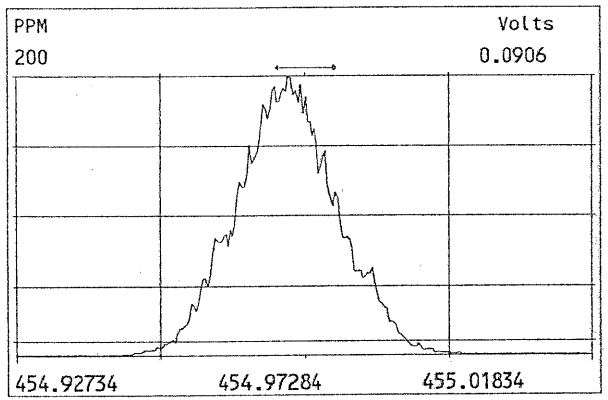


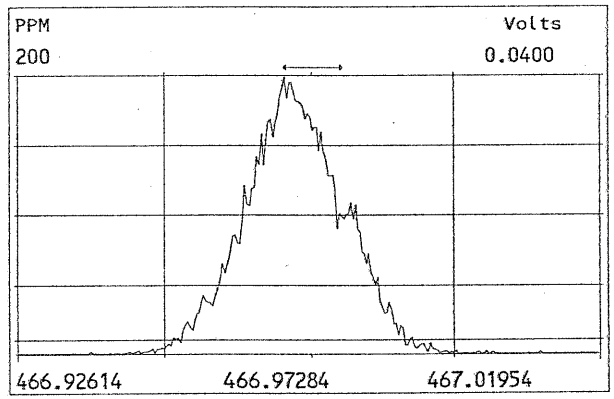
Peak Locate Examination: 2-AUG-2019:07:01 File:02AUG19Z
Experiment:1668PCB Function:6 Reference:PFK

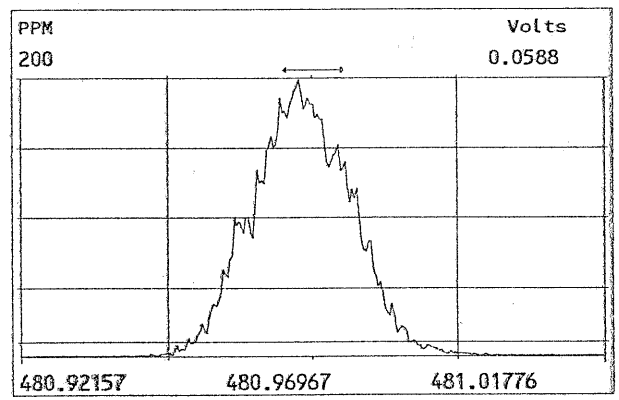


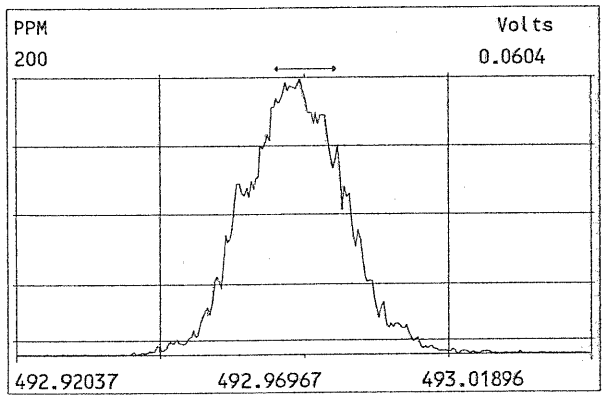


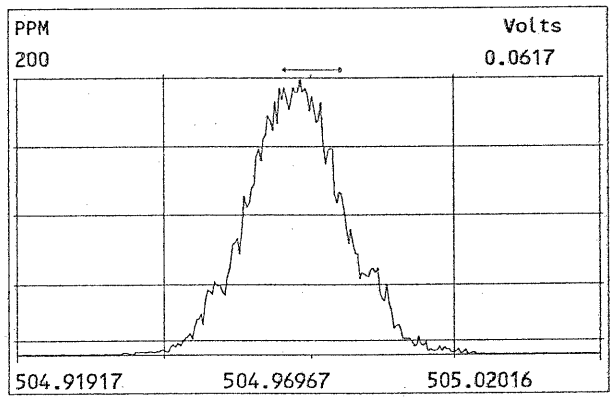


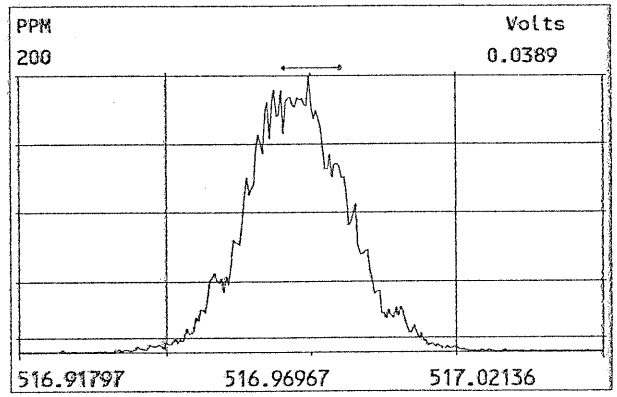




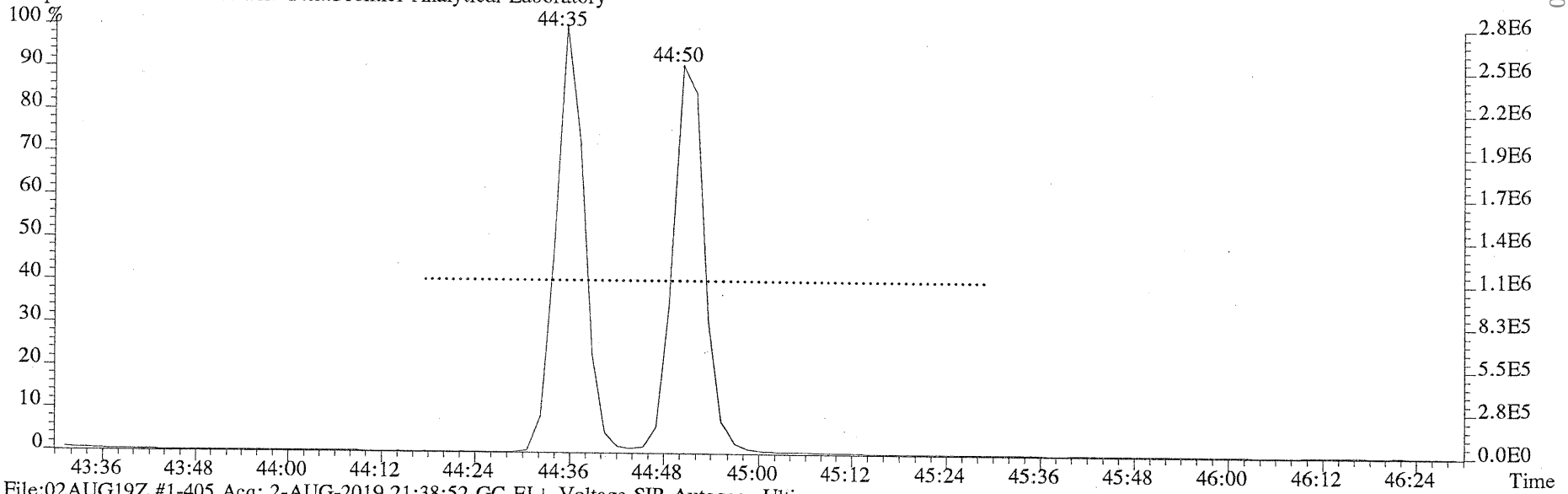




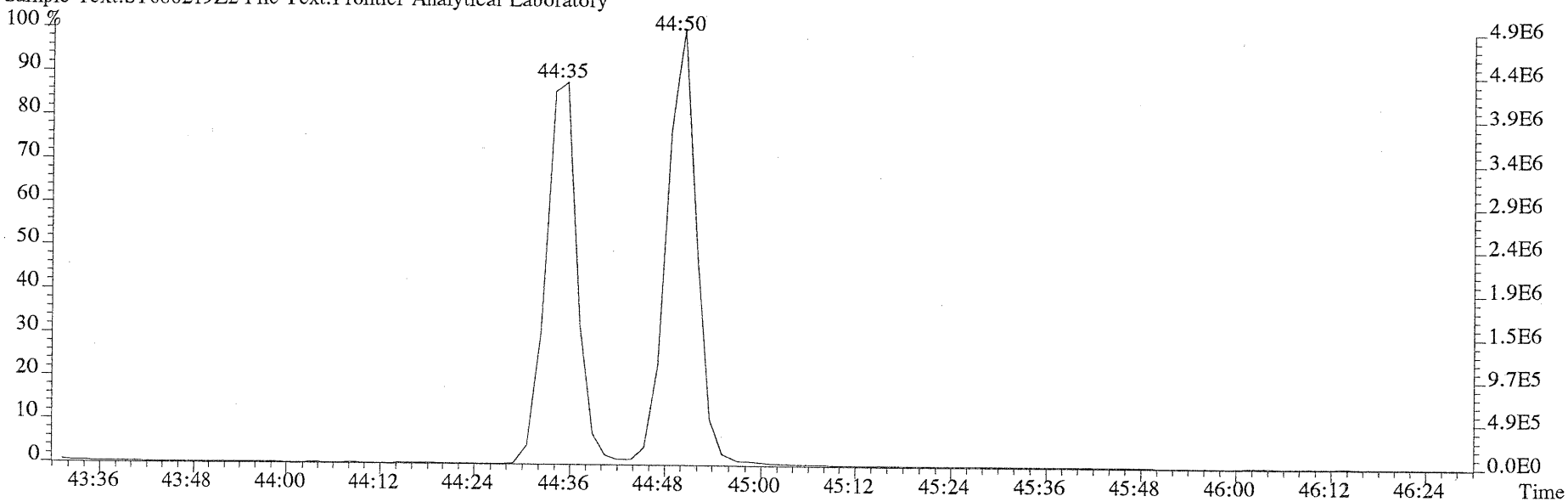




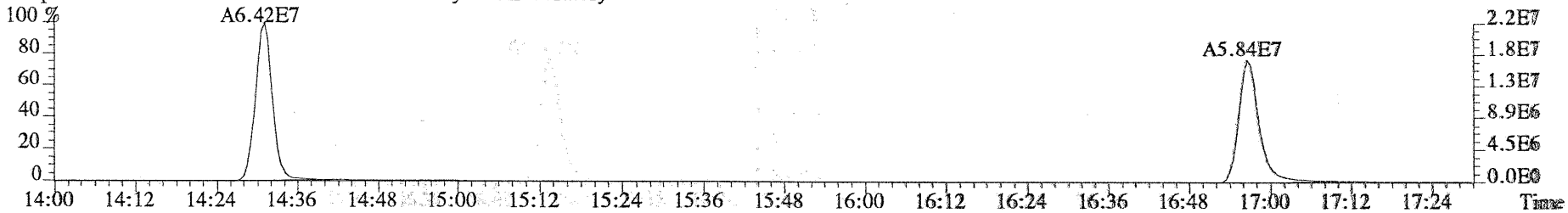
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



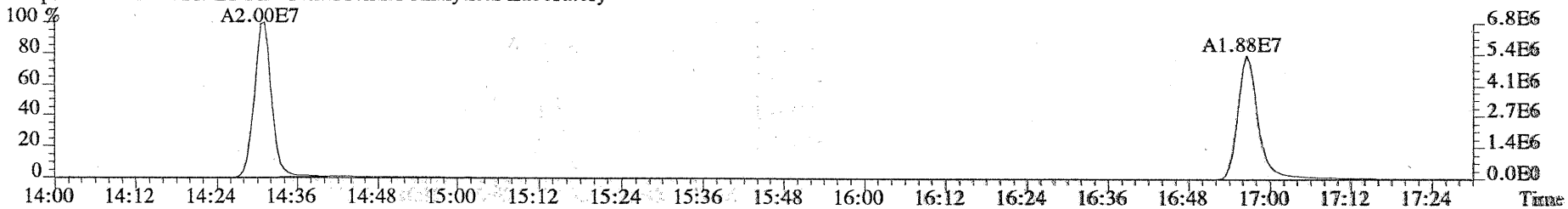
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



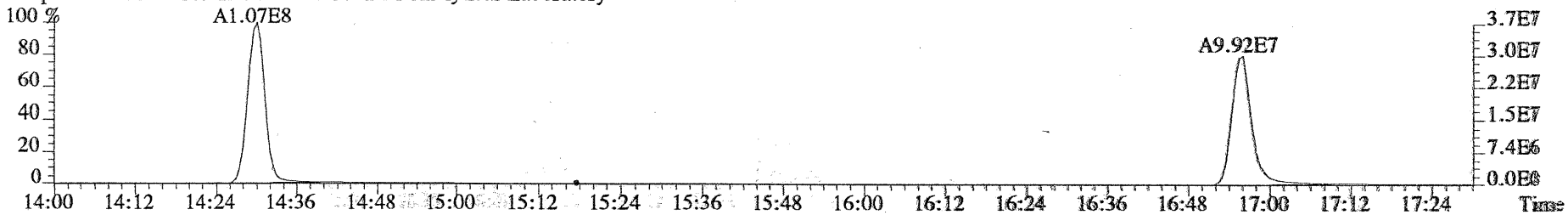
File:02AUG19Z #1-784 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



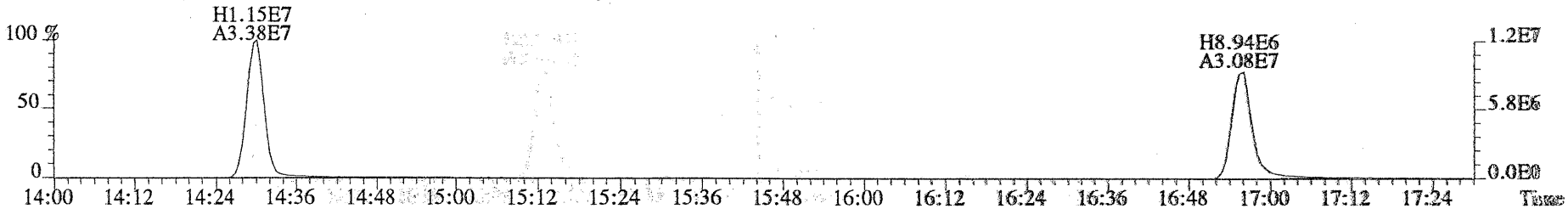
File:02AUG19Z #1-784 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



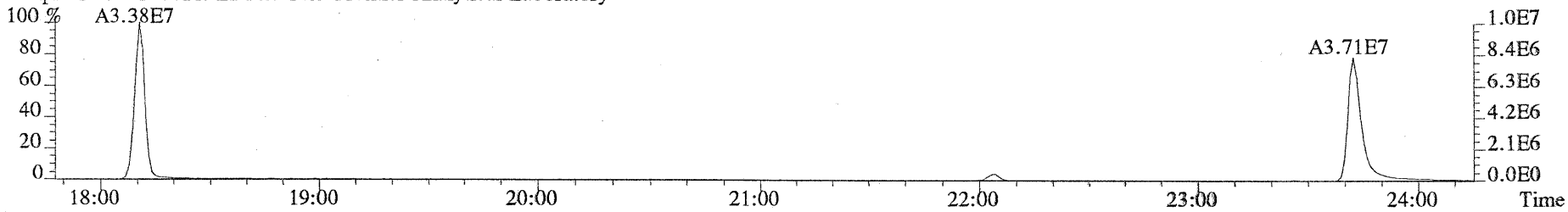
File:02AUG19Z #1-784 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



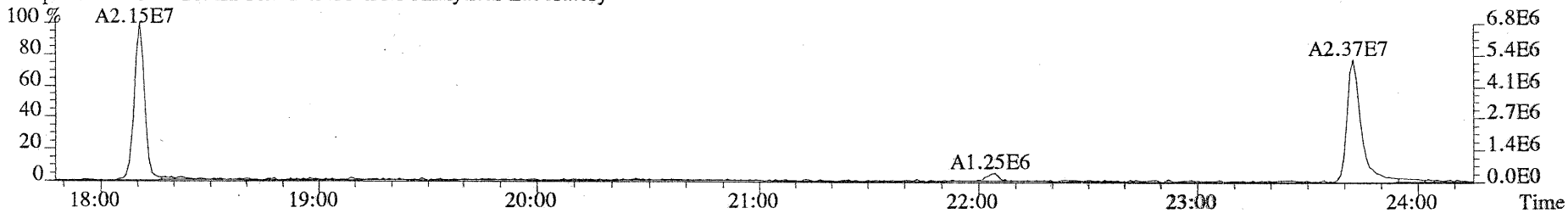
File:02AUG19Z #1-784 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:16 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



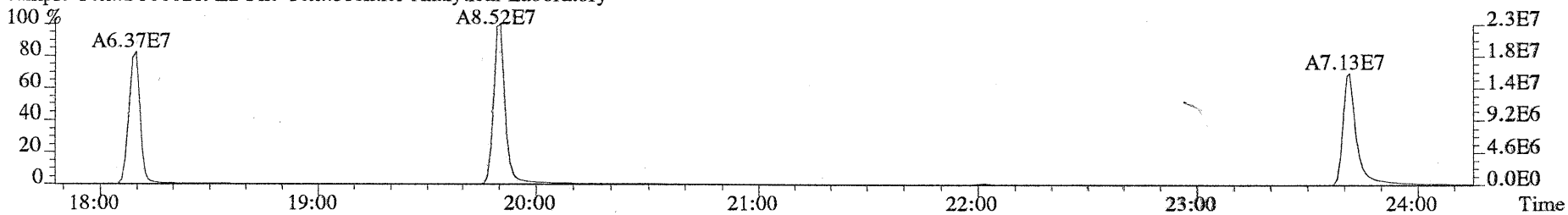
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



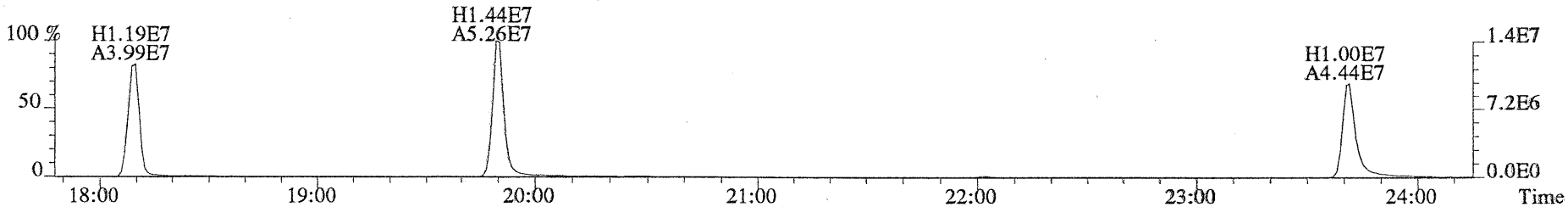
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



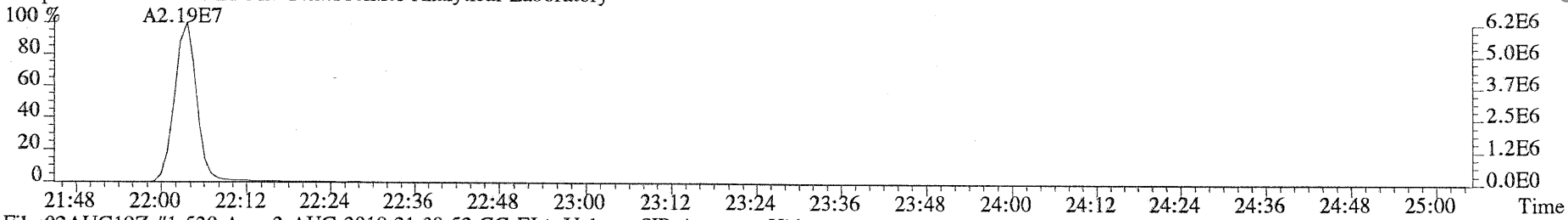
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



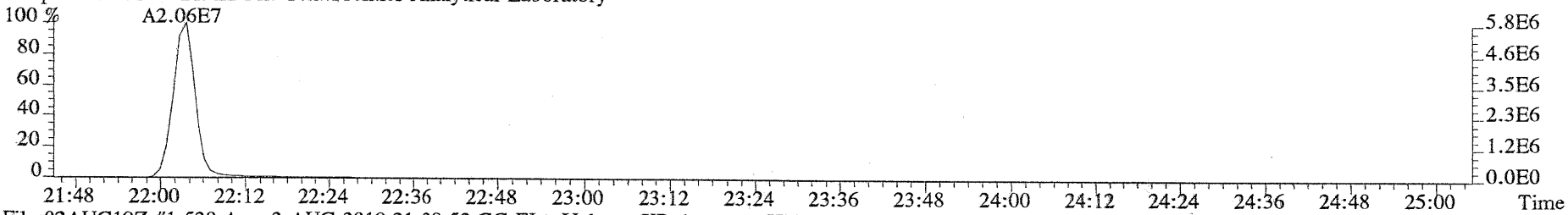
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



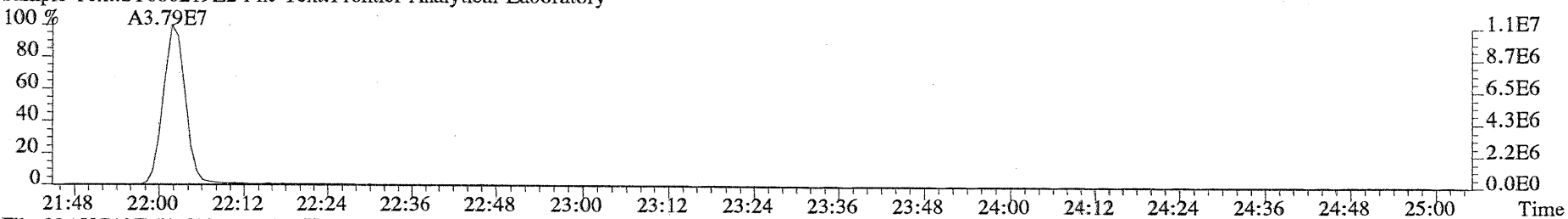
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



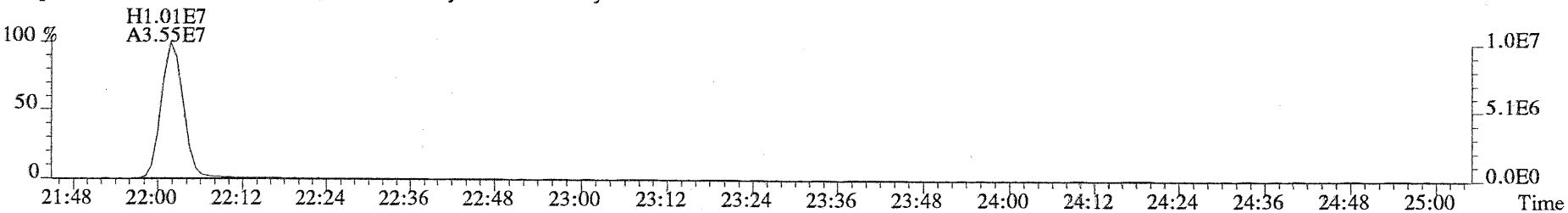
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



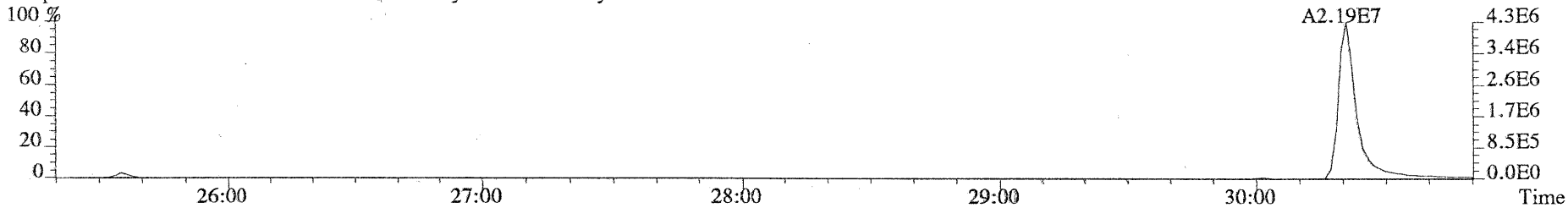
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



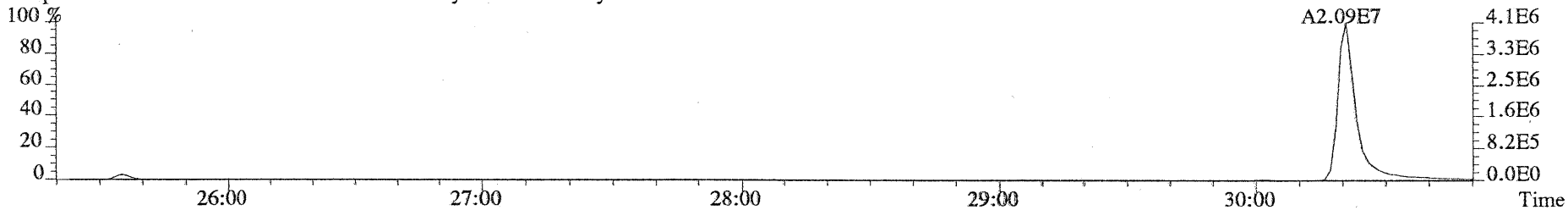
File:02AUG19Z #1-520 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



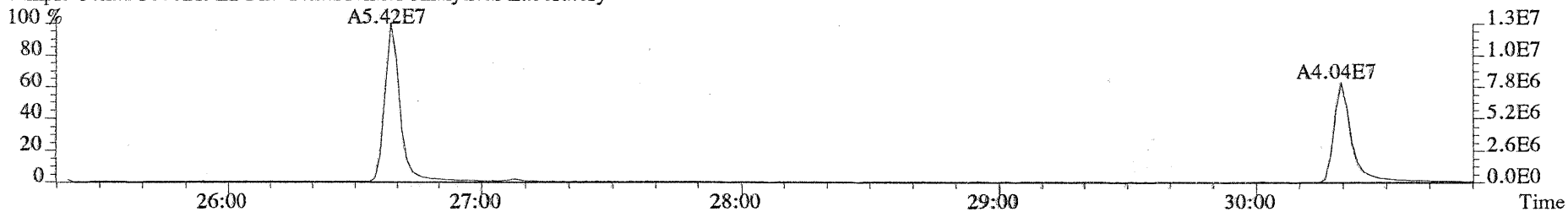
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



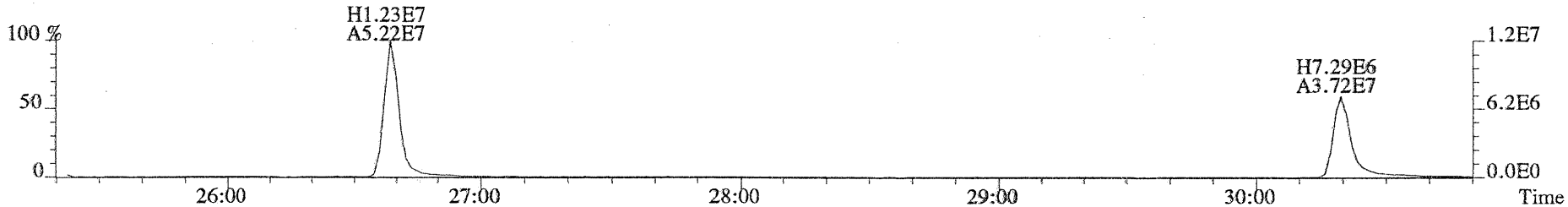
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



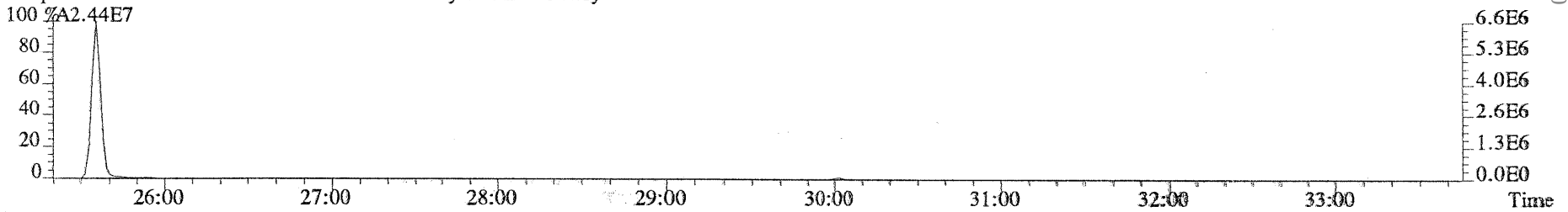
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



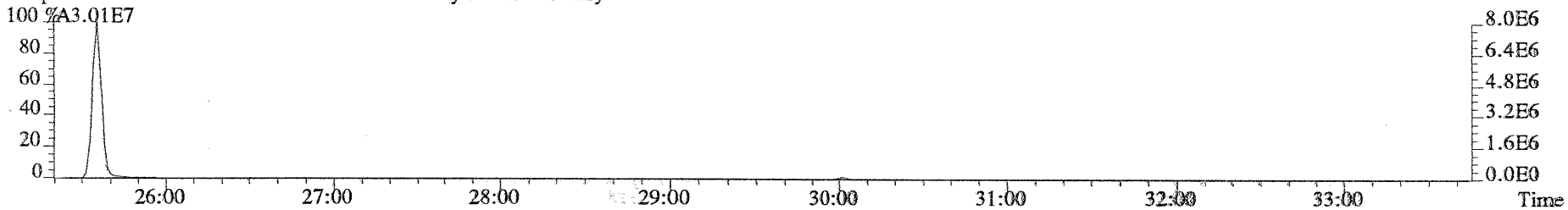
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



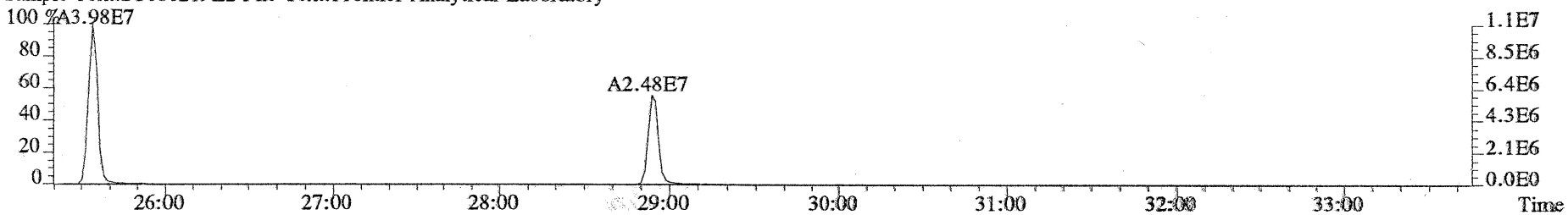
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



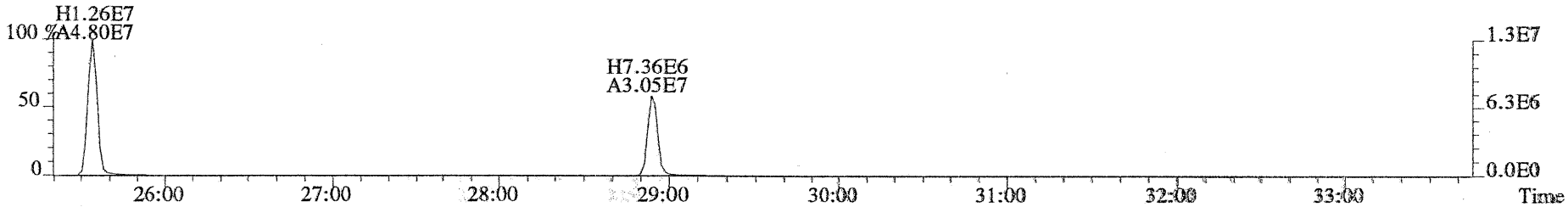
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



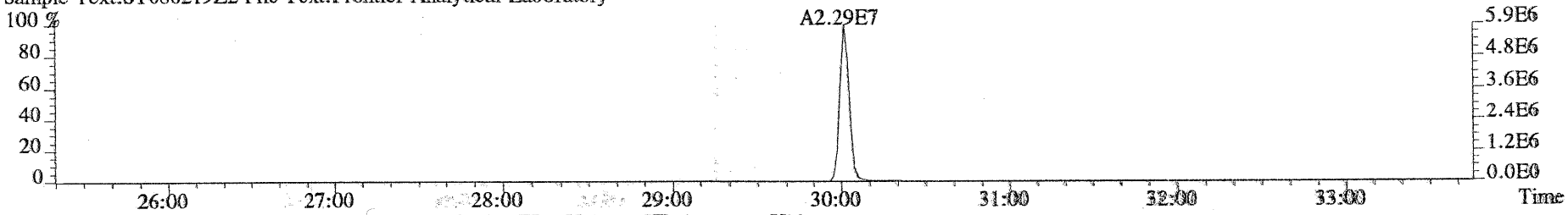
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



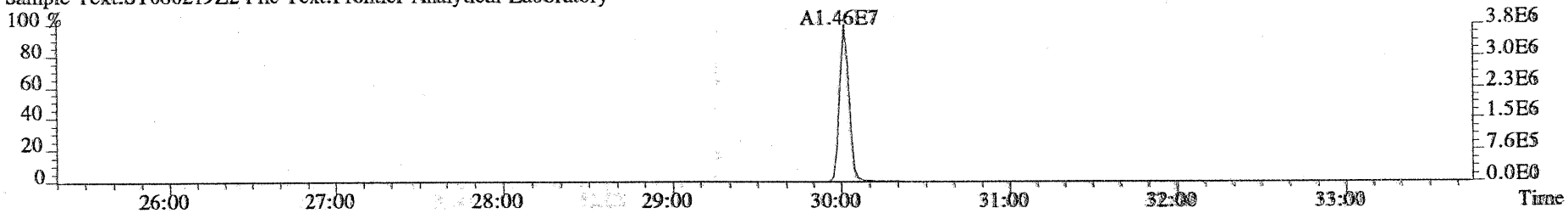
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



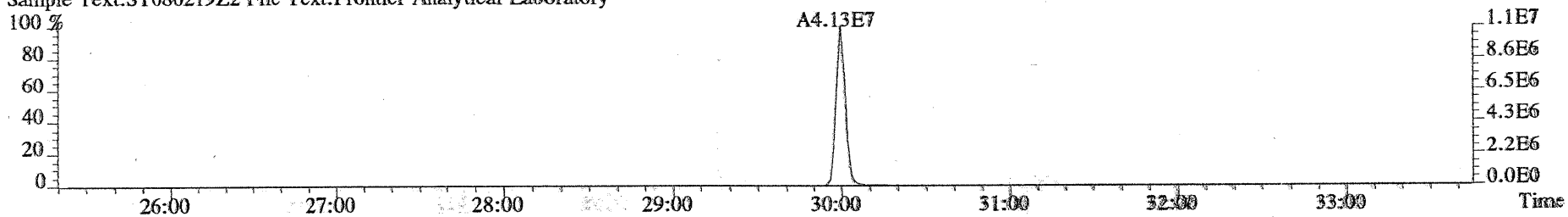
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



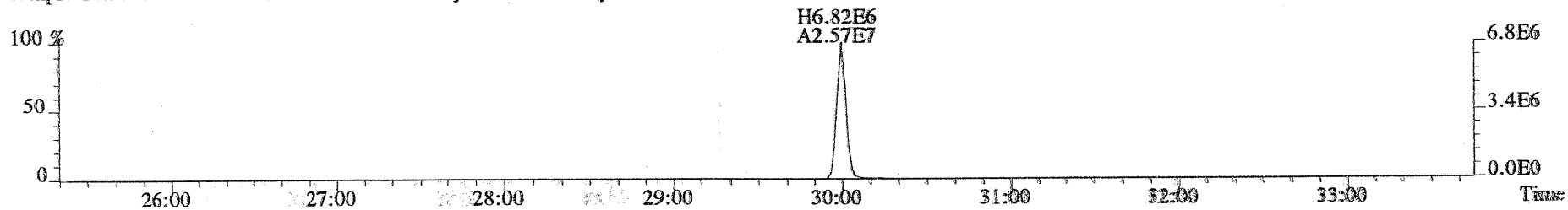
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



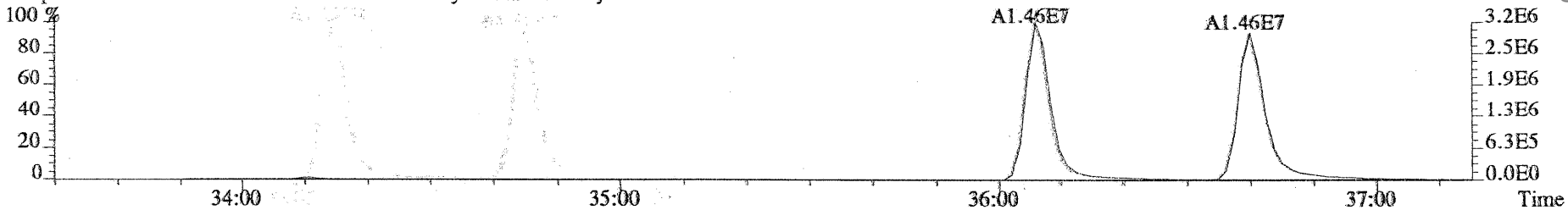
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



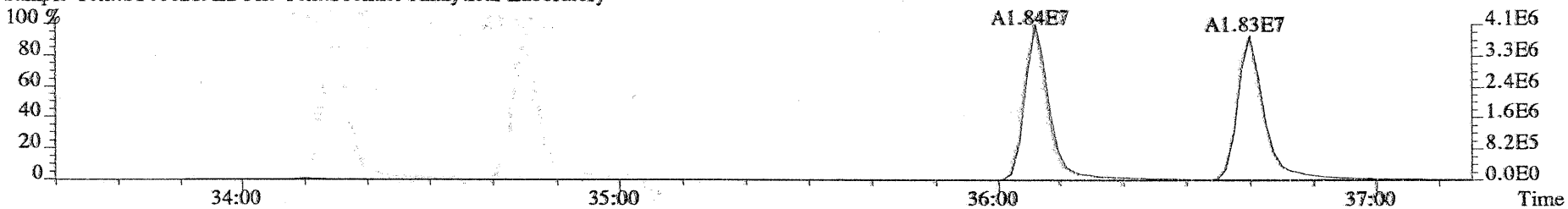
File:02AUG19Z #1-401 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



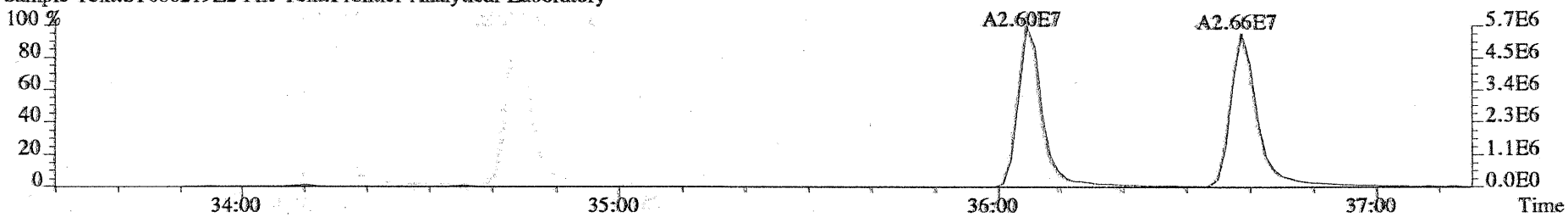
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



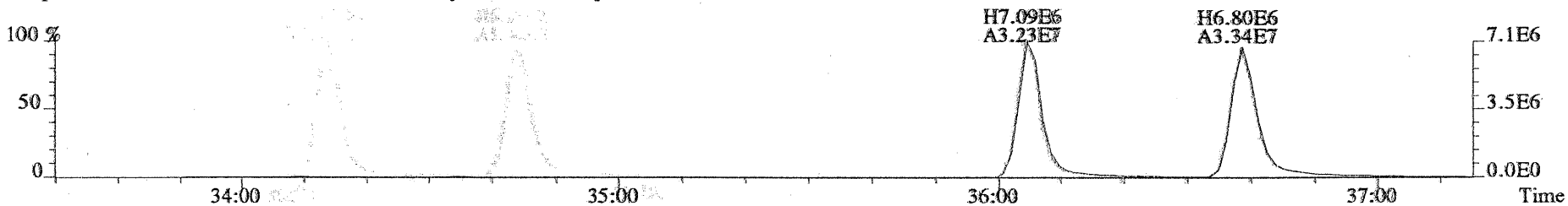
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



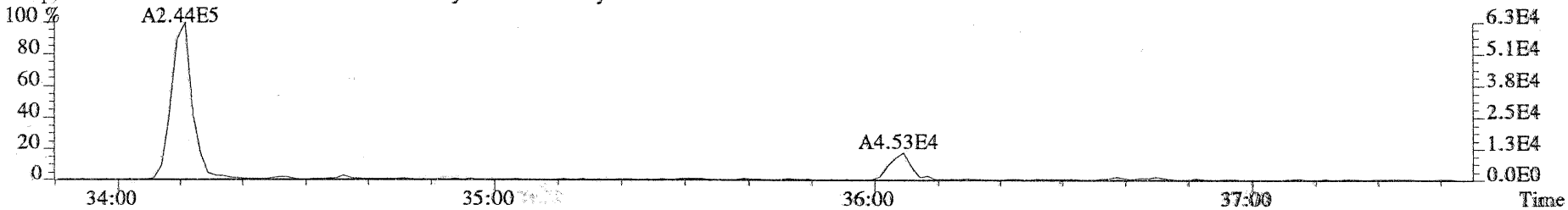
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



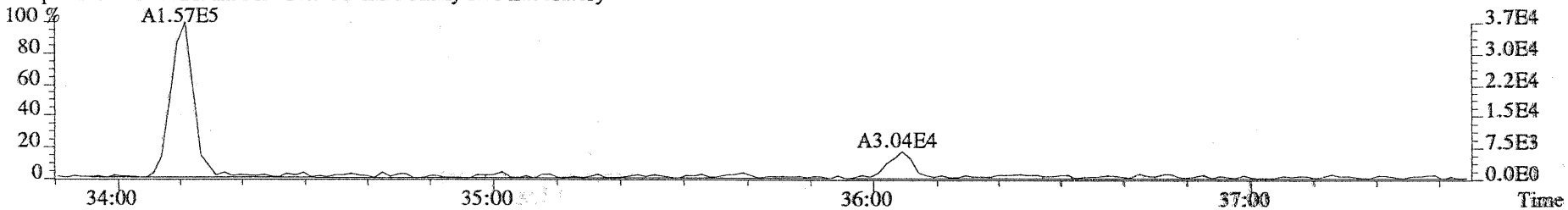
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



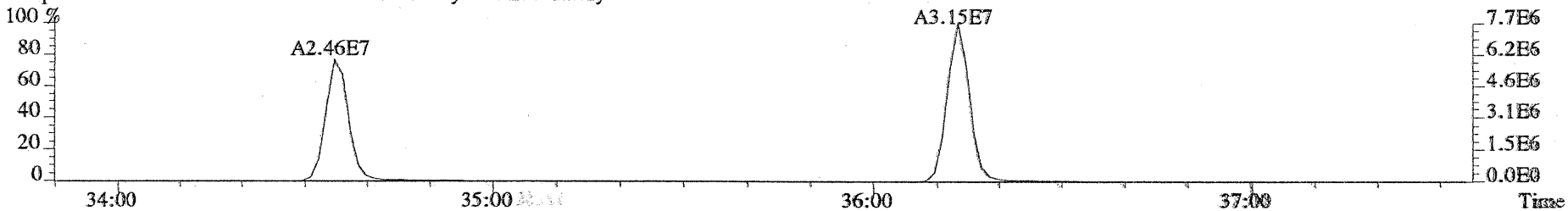
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



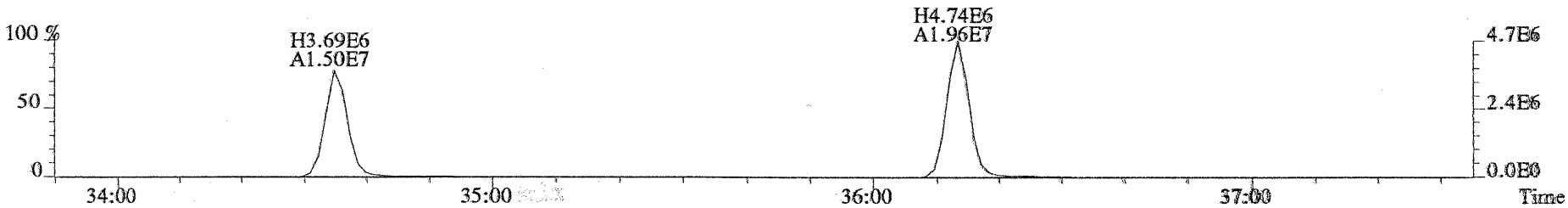
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



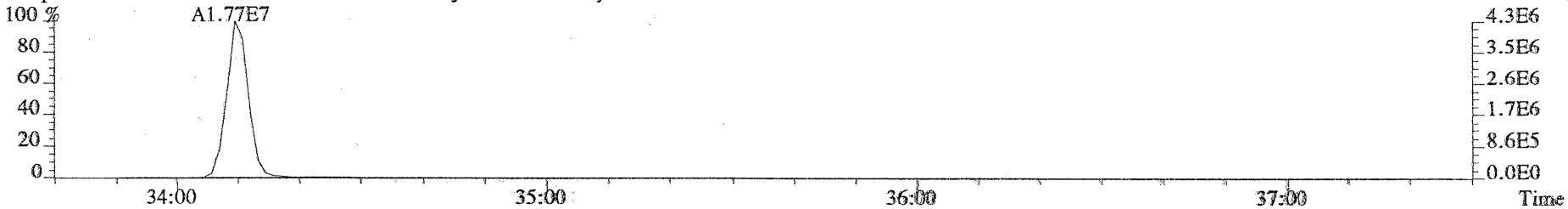
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



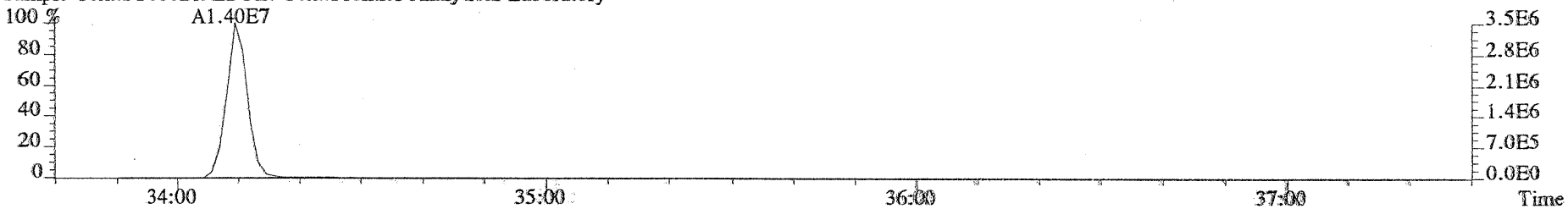
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



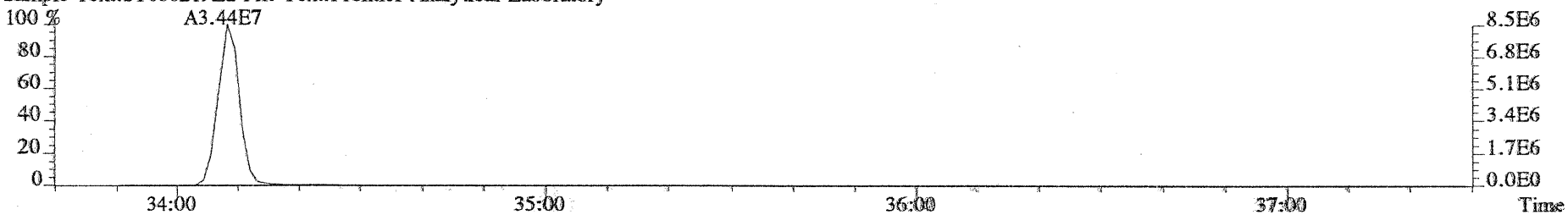
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



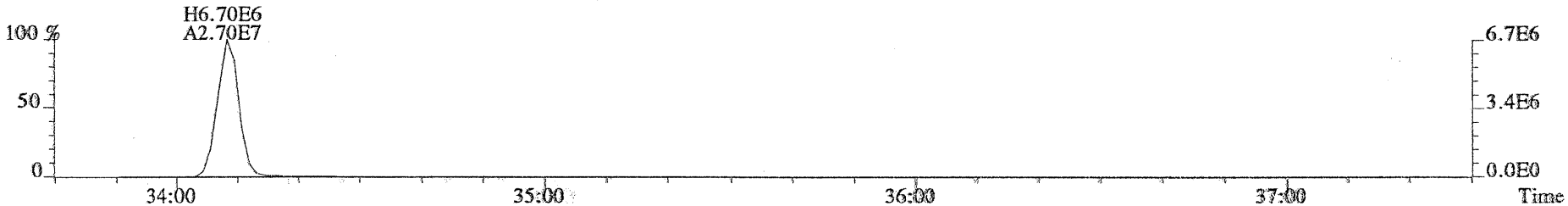
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



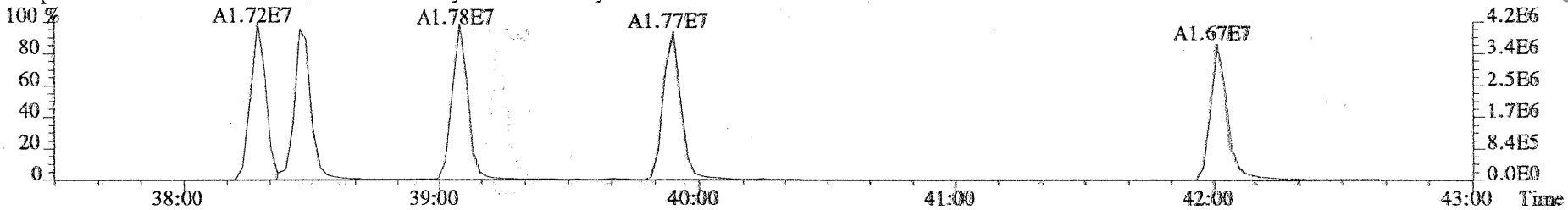
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



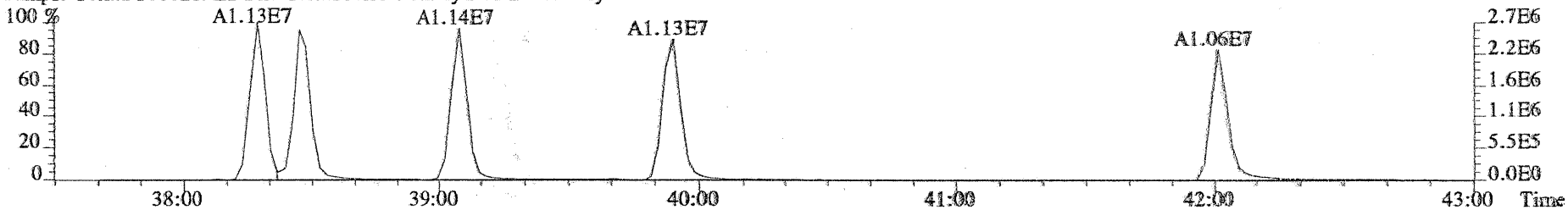
File:02AUG19Z #1-181 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



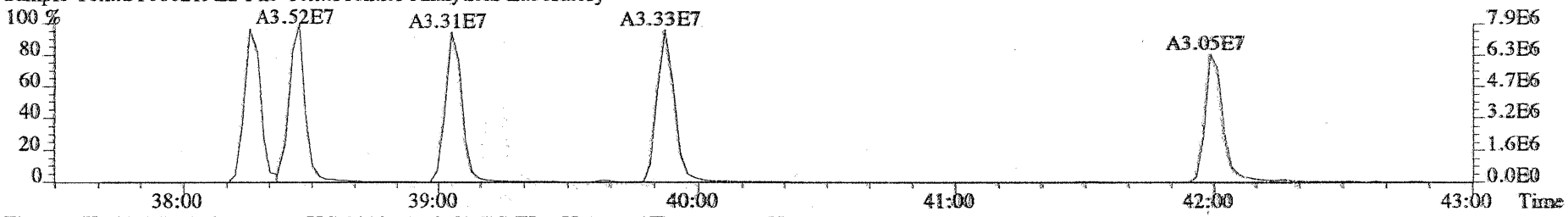
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



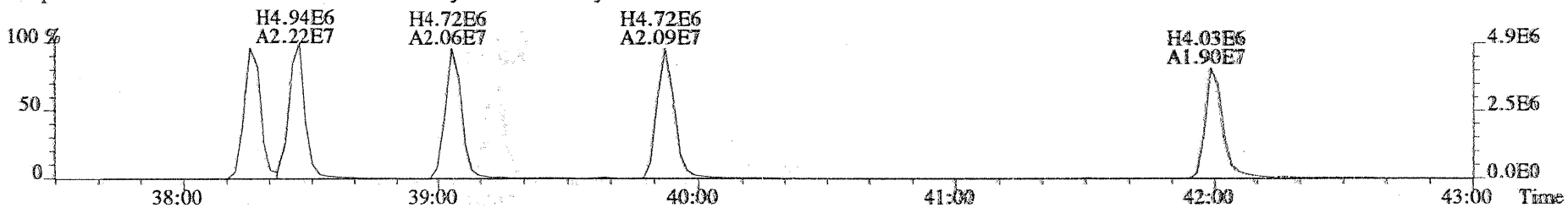
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



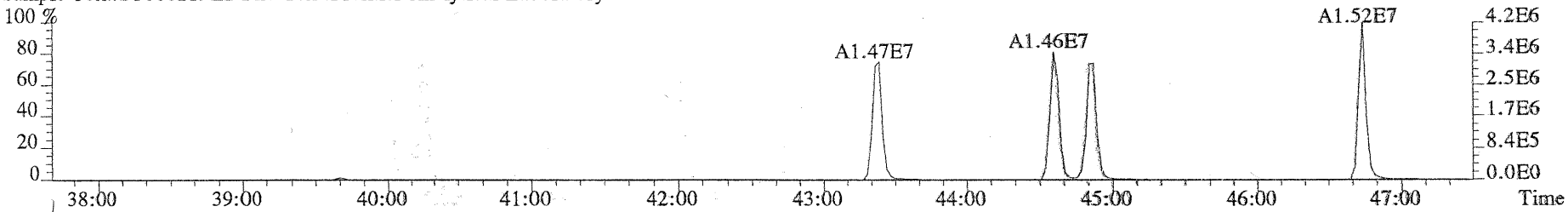
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



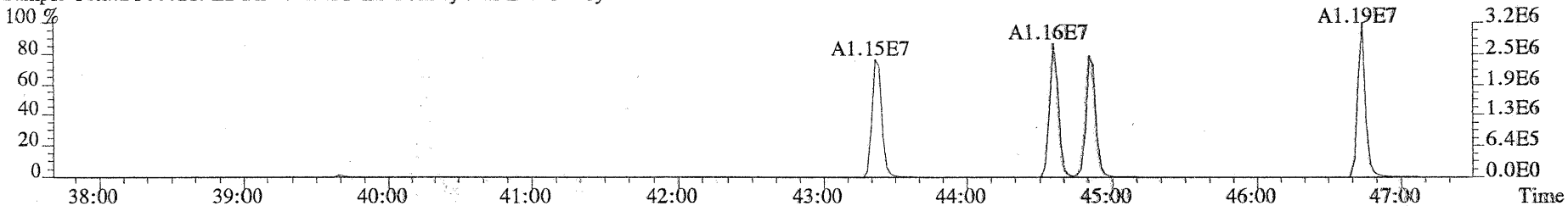
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



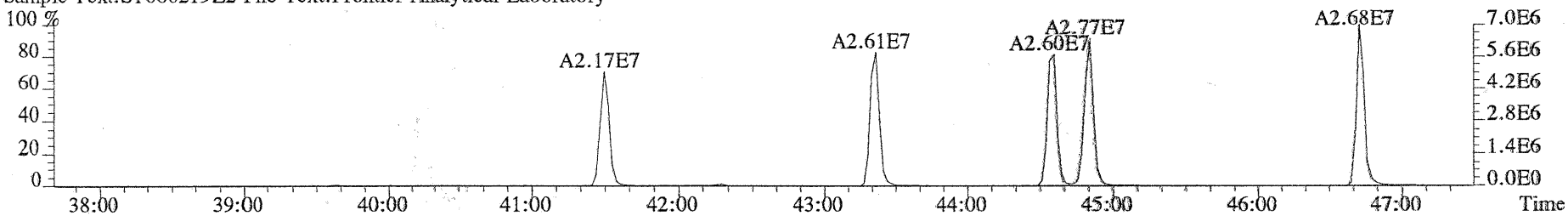
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



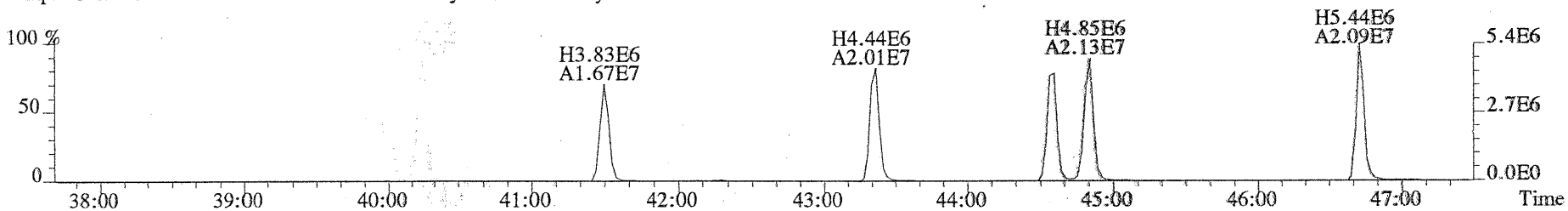
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



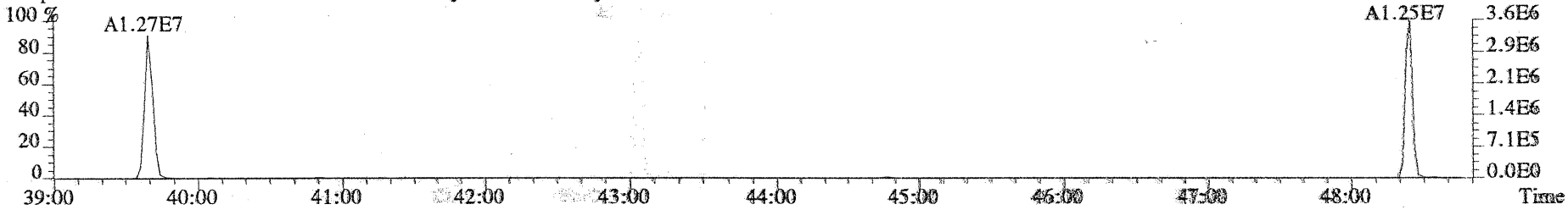
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



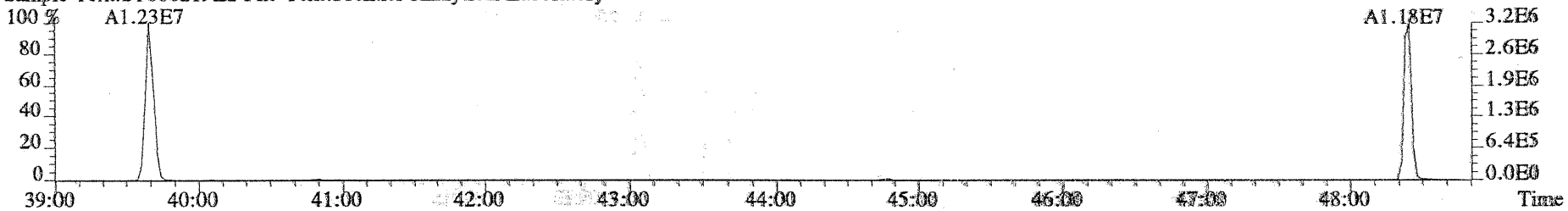
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:16 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



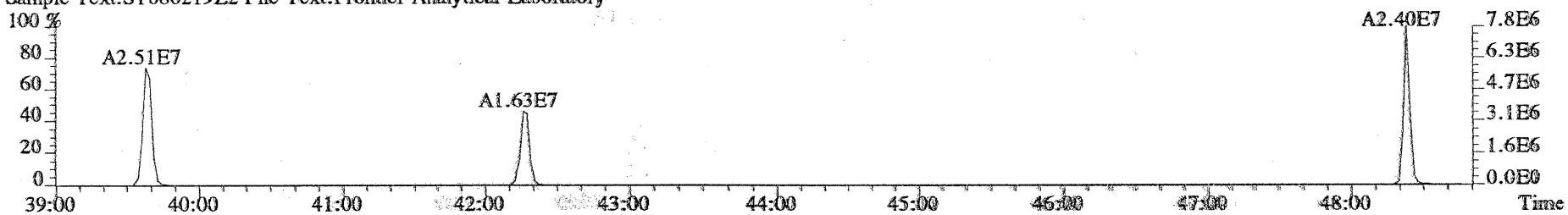
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



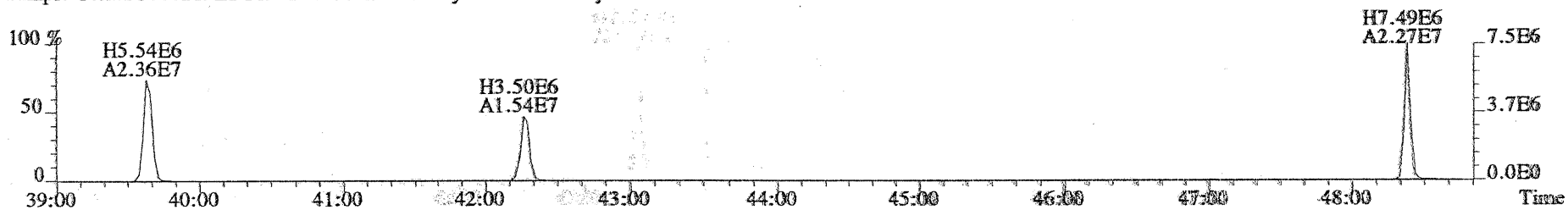
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



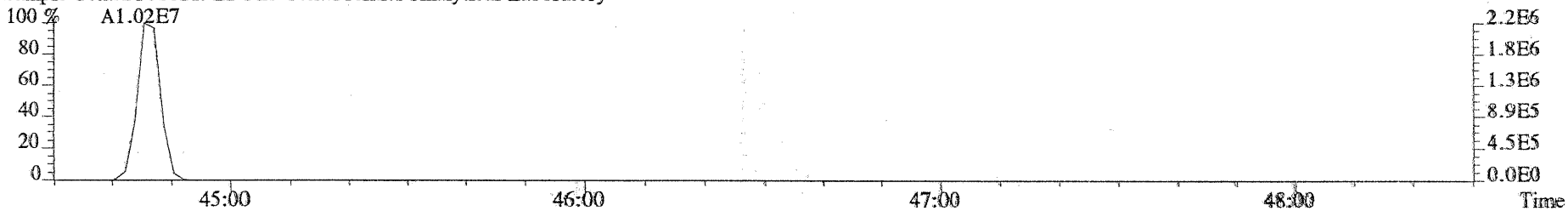
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



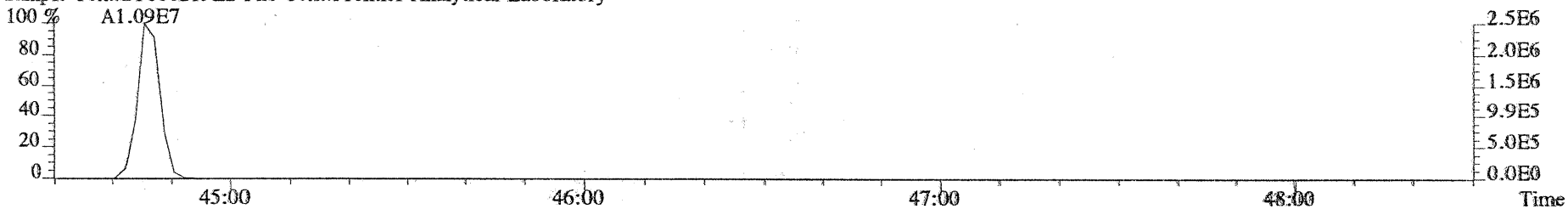
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



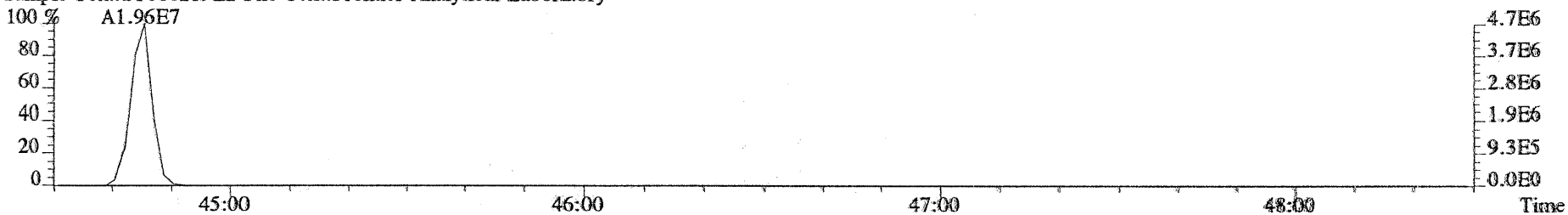
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



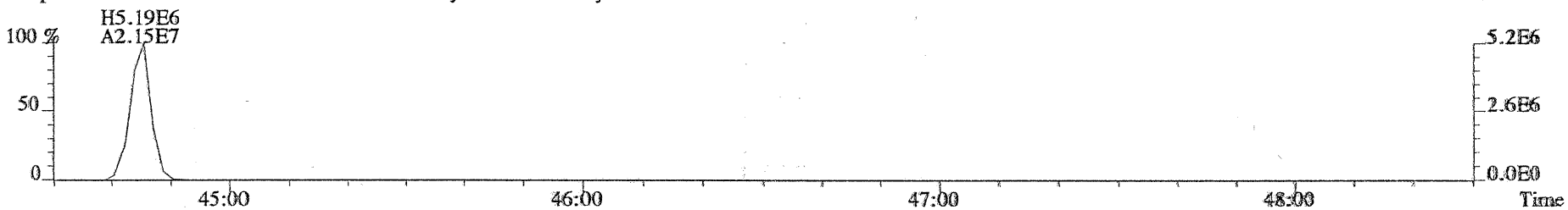
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



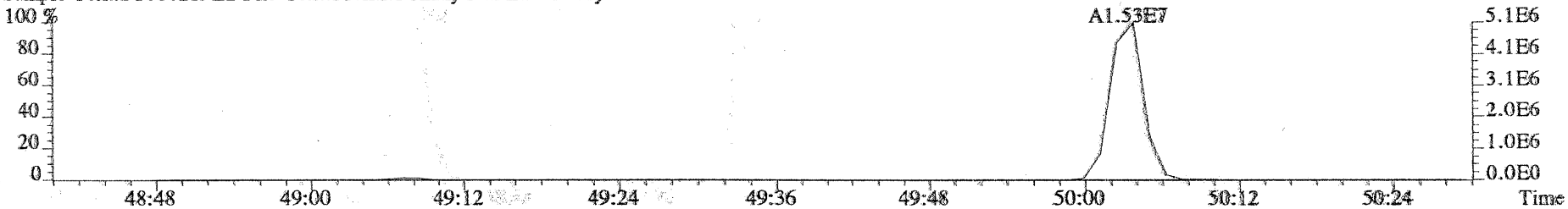
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



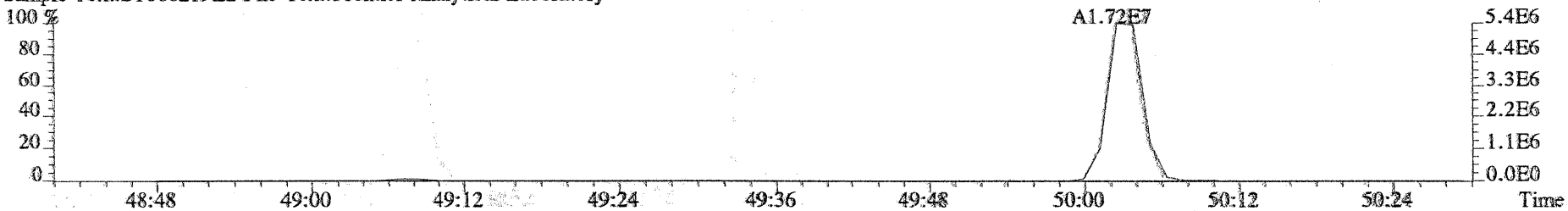
File:02AUG19Z #1-405 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



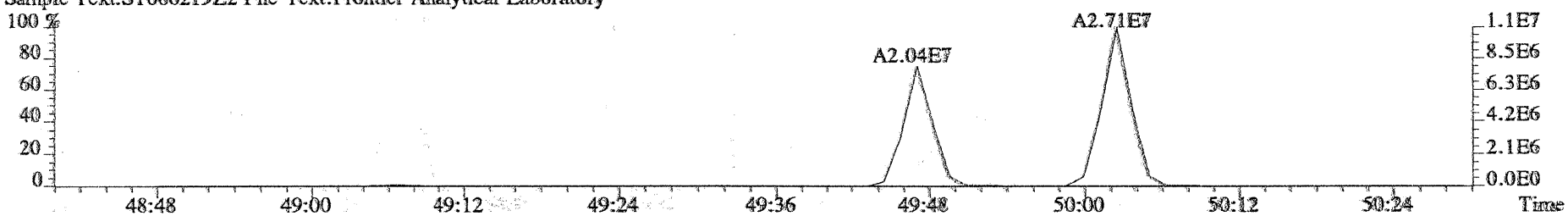
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



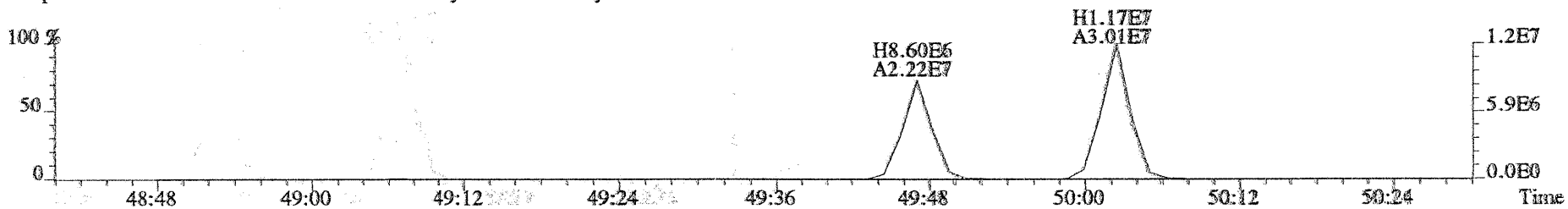
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



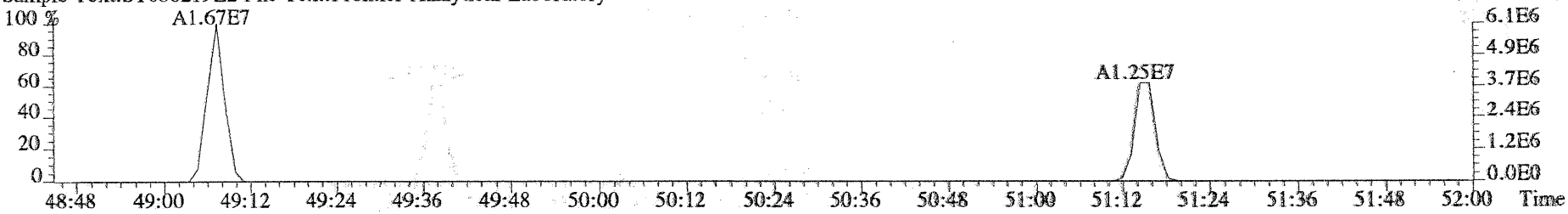
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



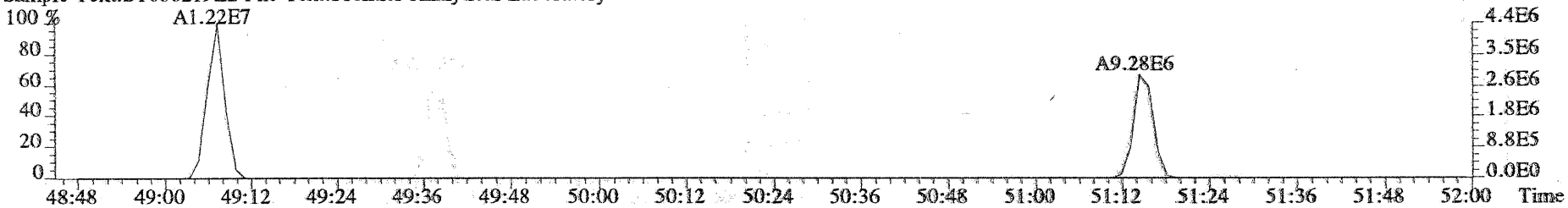
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



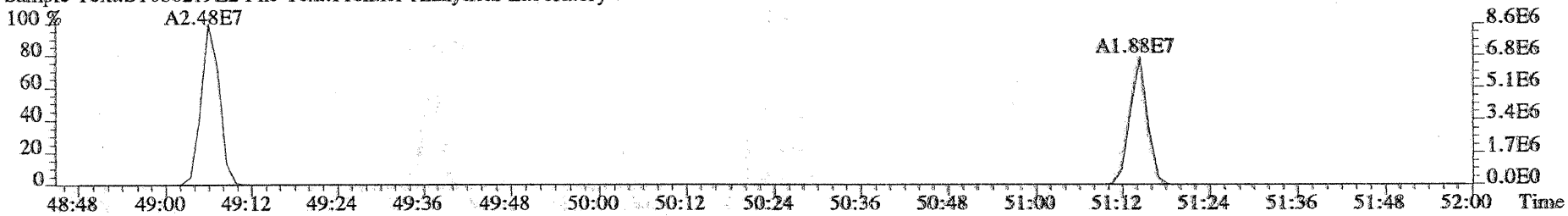
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



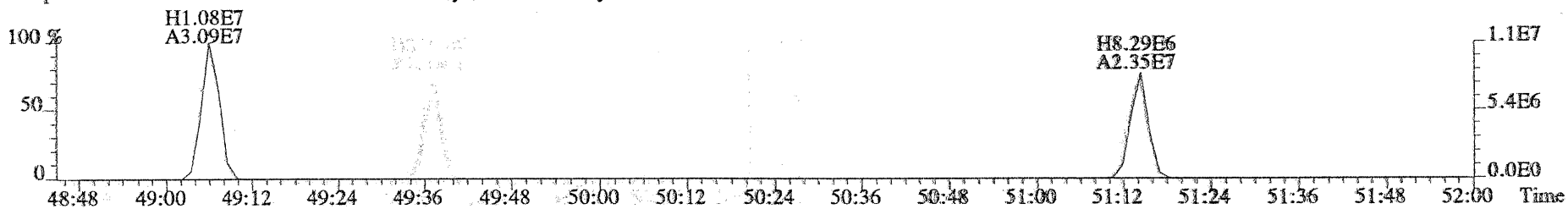
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



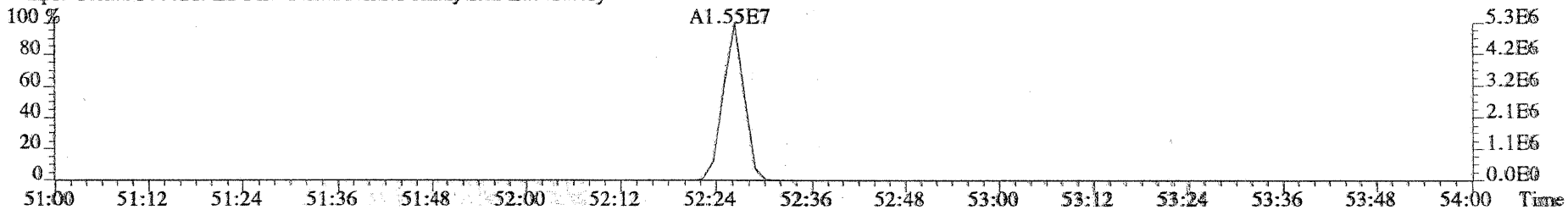
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



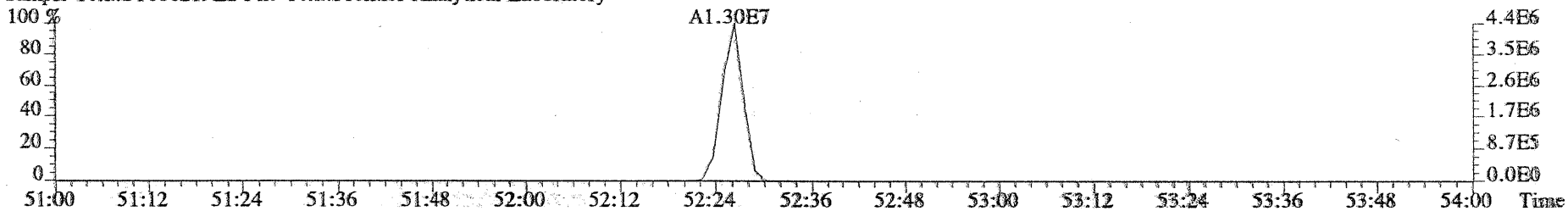
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



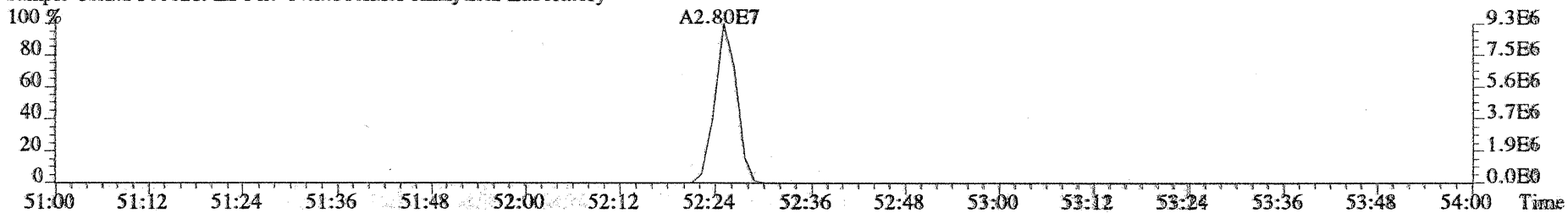
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



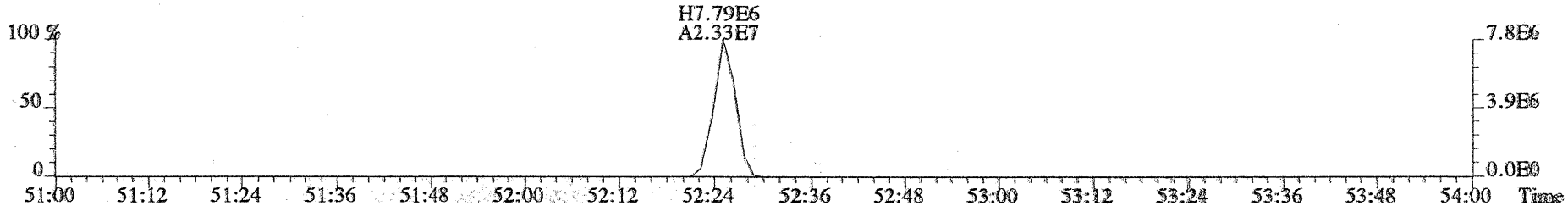
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory



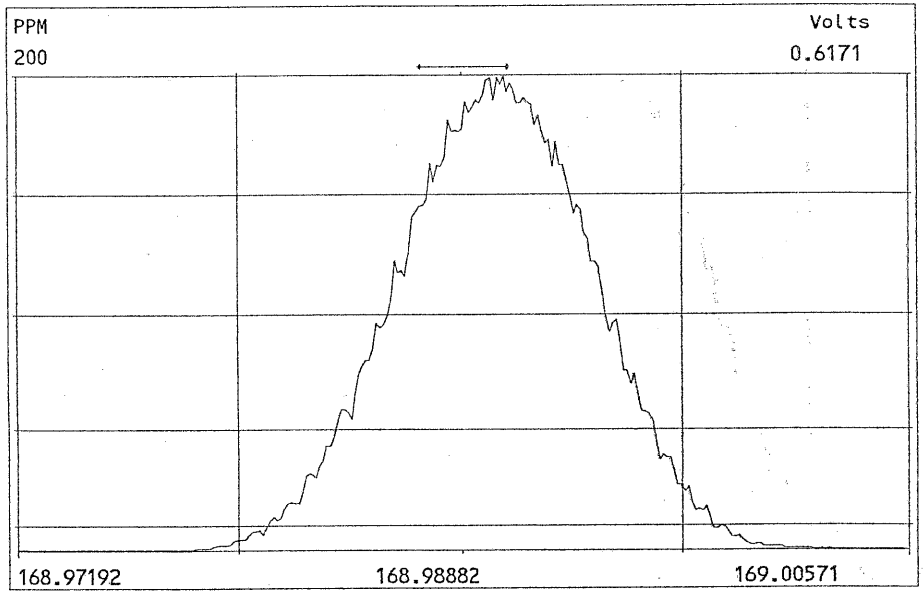
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory

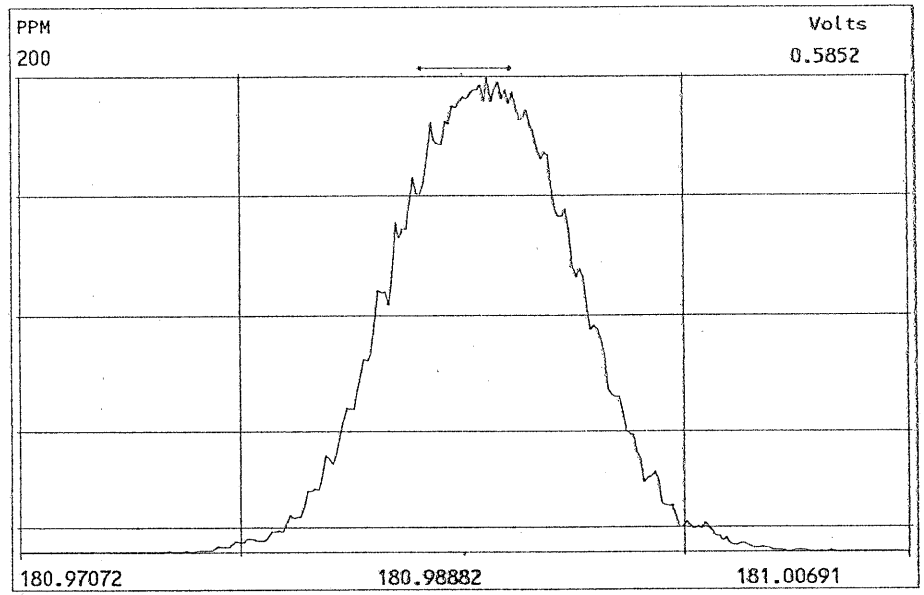


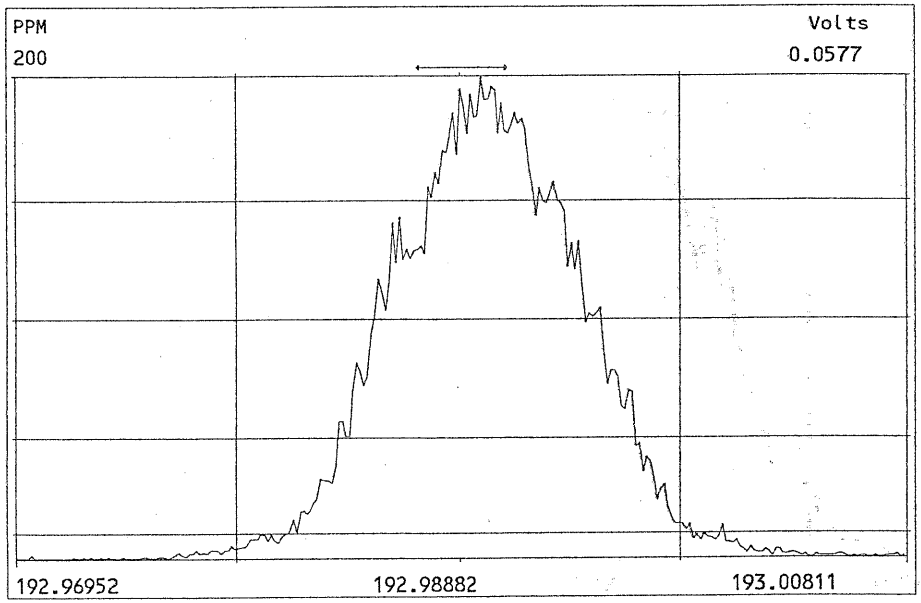
File:02AUG19Z #1-315 Acq: 2-AUG-2019 21:38:52 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:16 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST080219Z2 File Text:Frontier Analytical Laboratory

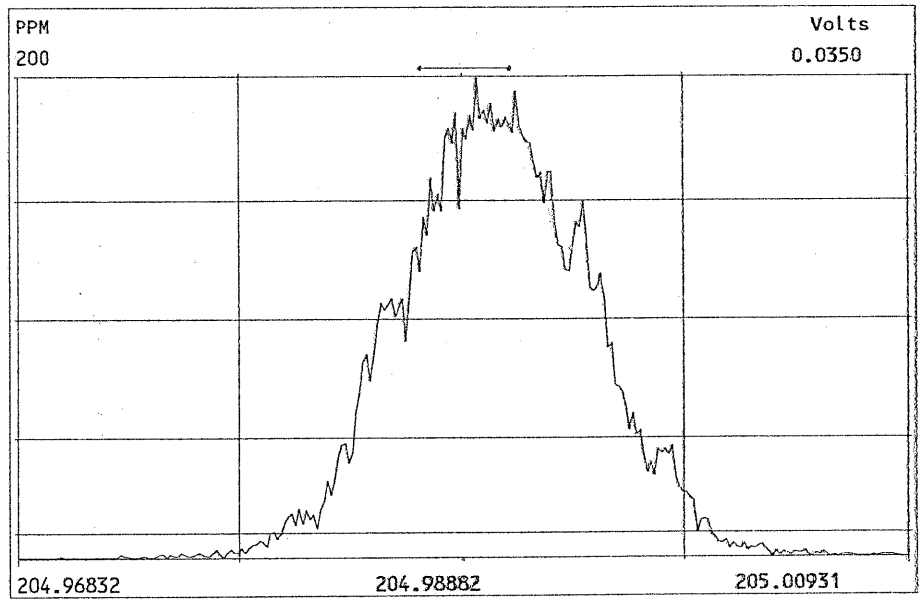


Peak Locate Examination: 2-AUG-2019:23:06 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

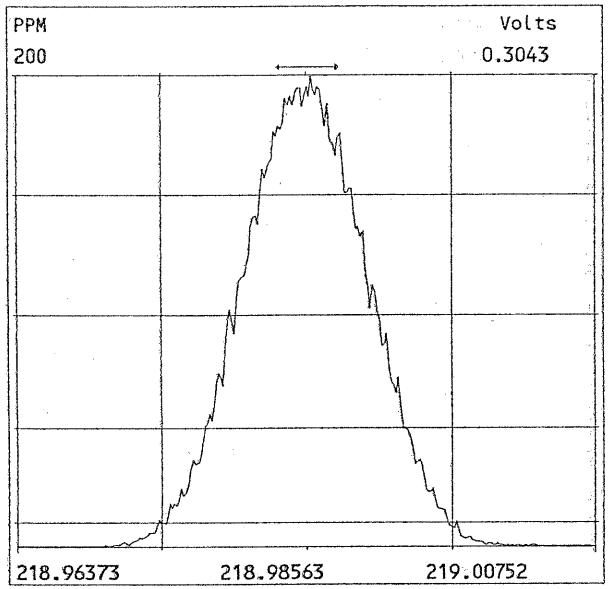


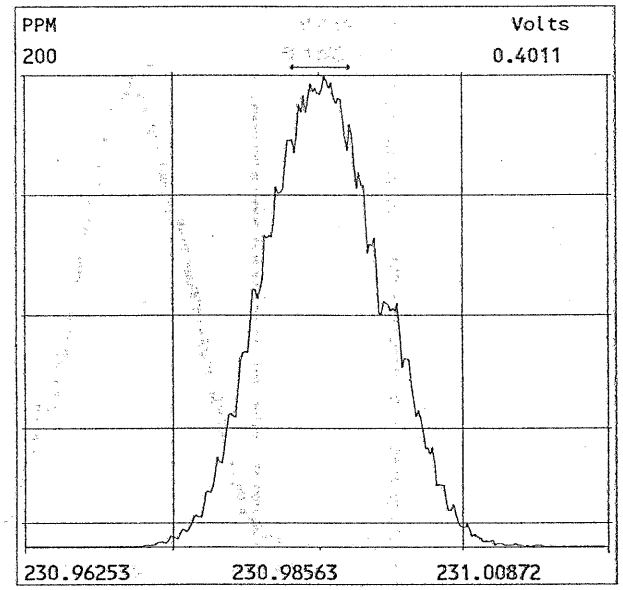


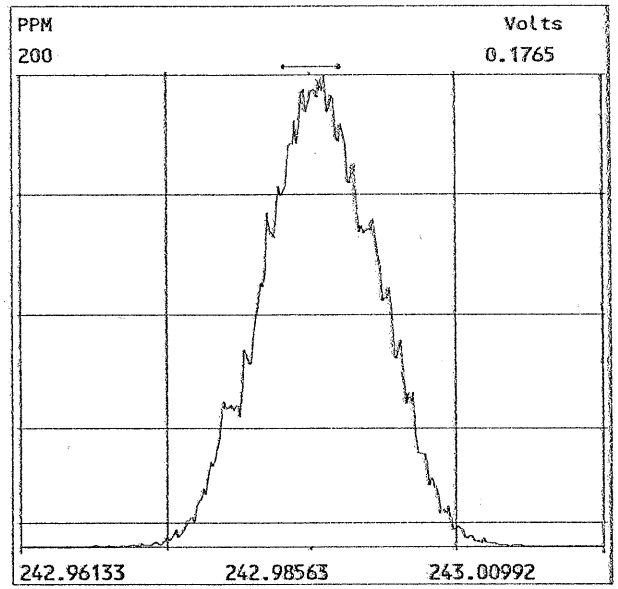


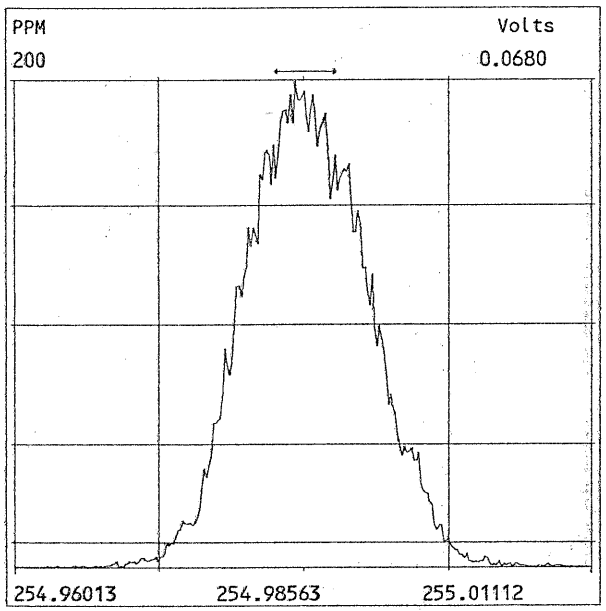


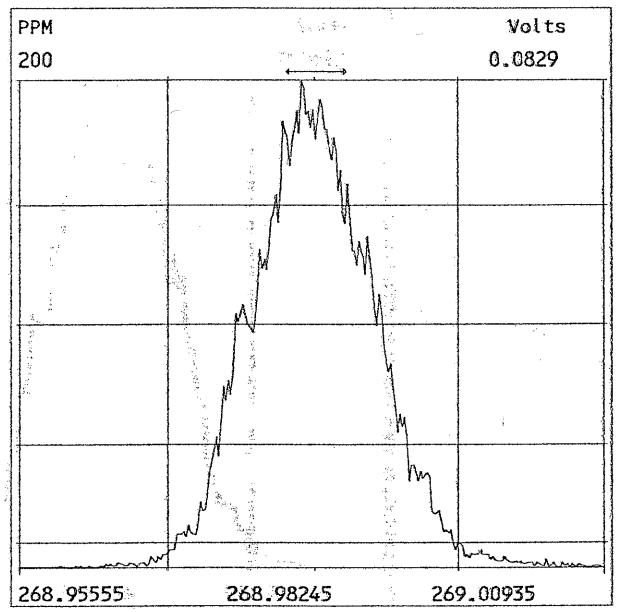
Peak Locate Examination: 2-AUG-2019:23:08 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

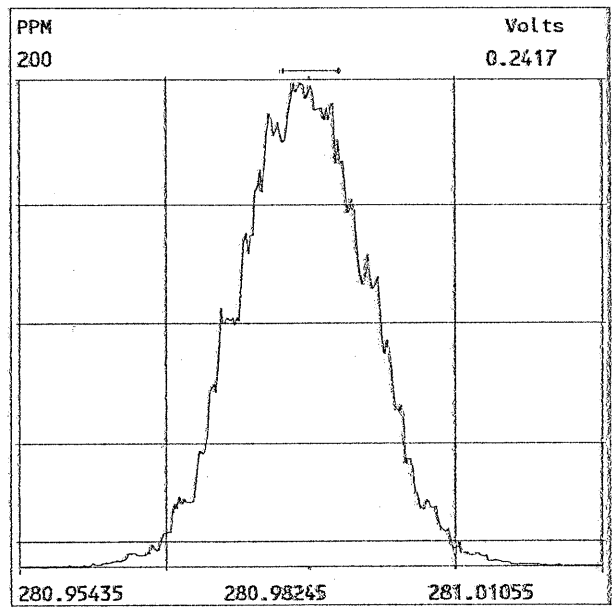




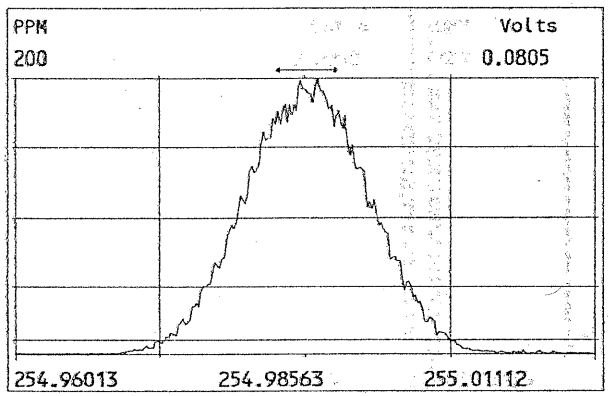


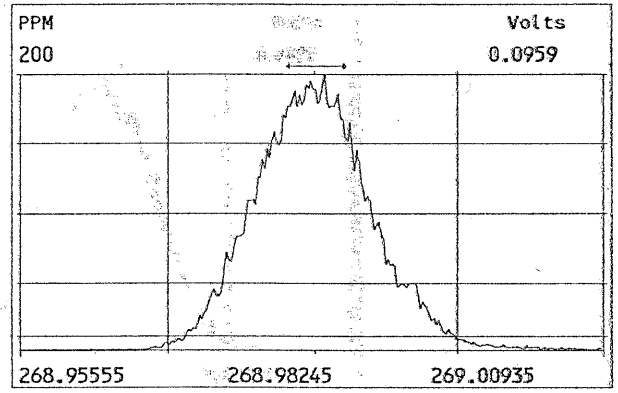


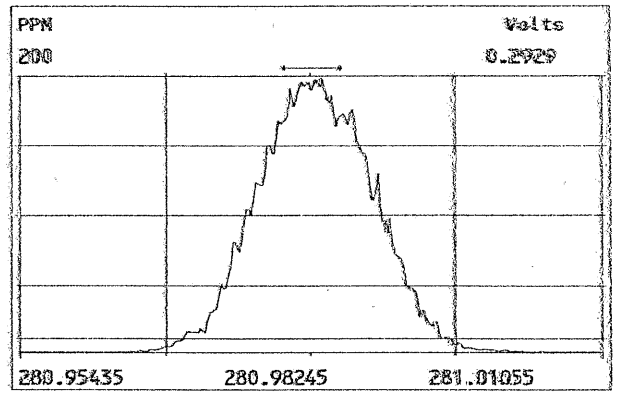


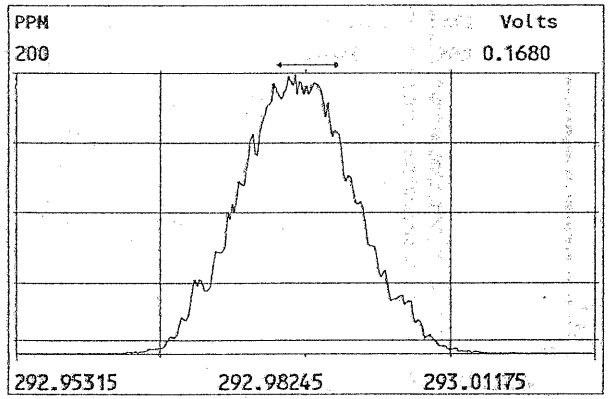


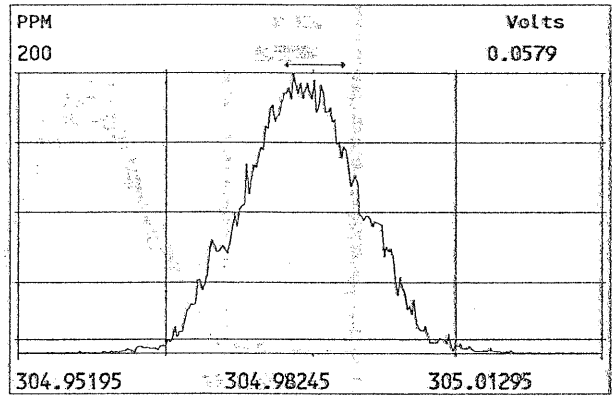
Peak Locate Examination: 2-AUG-2019:23:10 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

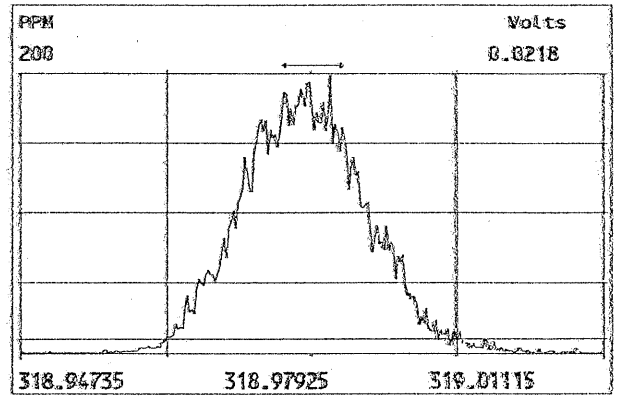


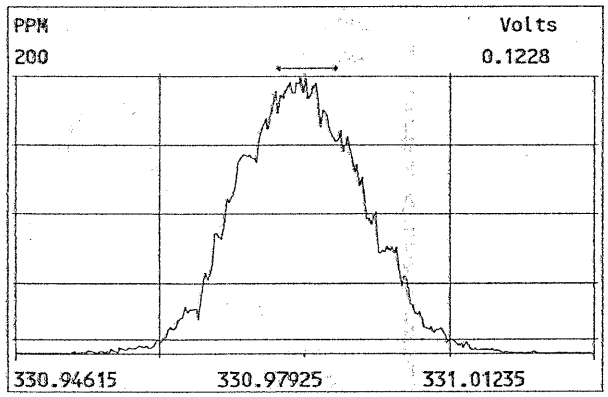


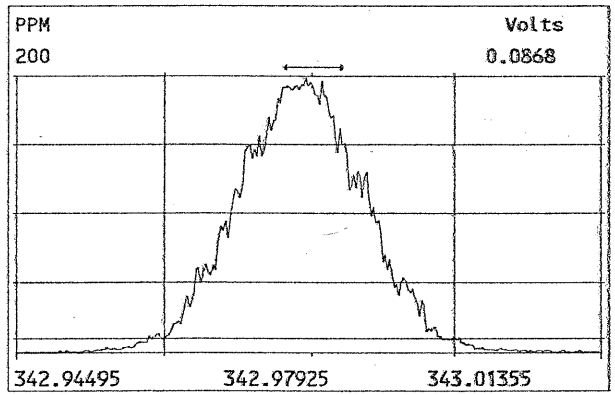




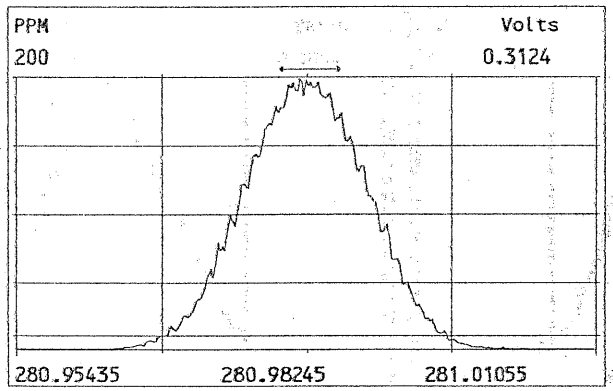


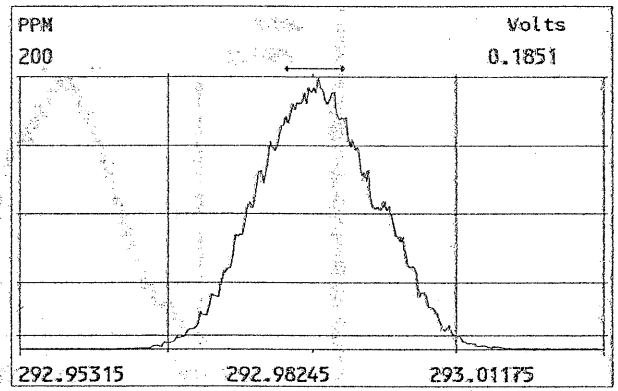


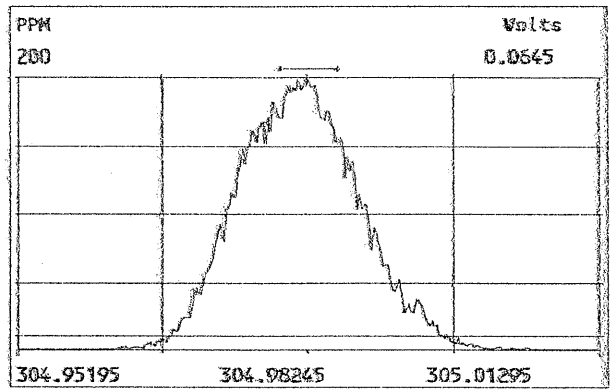


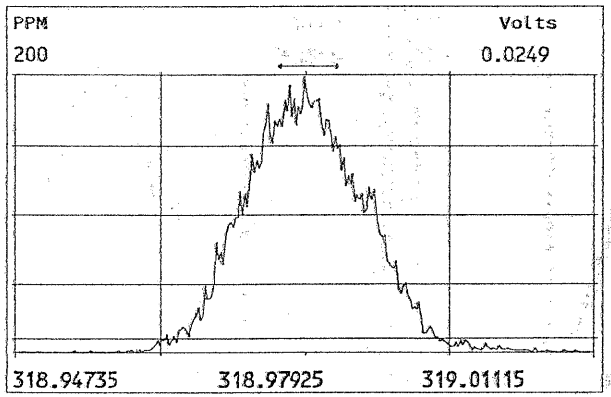


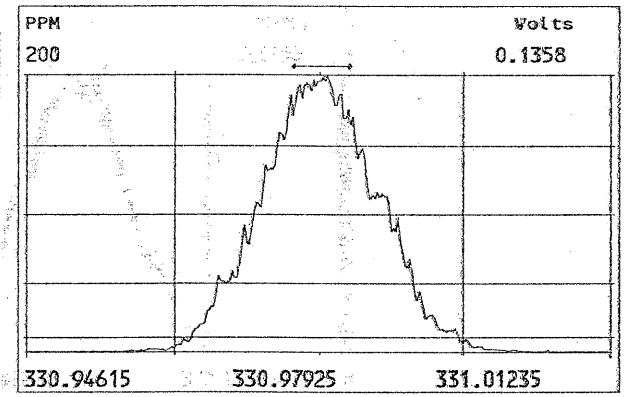
Peak Locate Examination: 2-AUG-2019:23:13 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

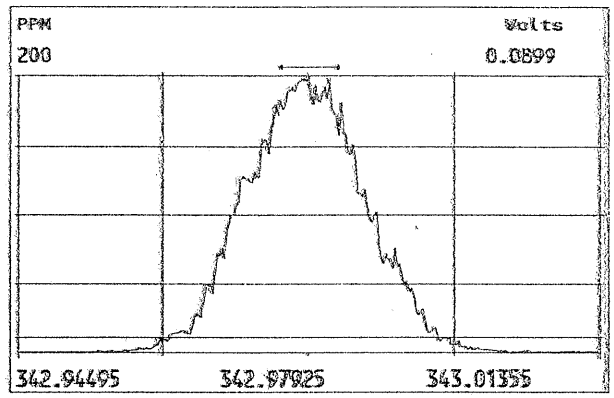


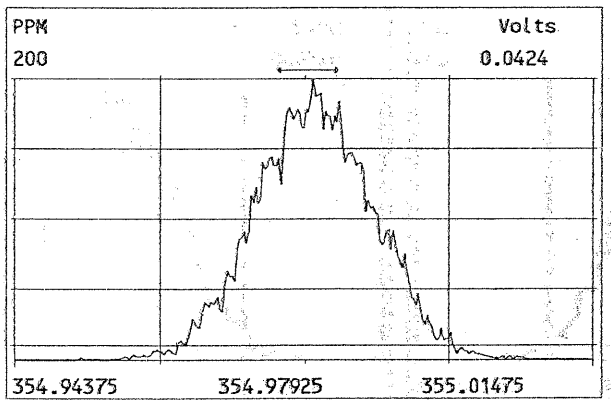


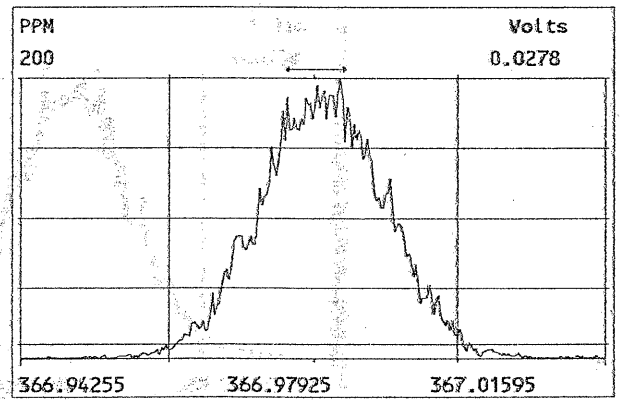


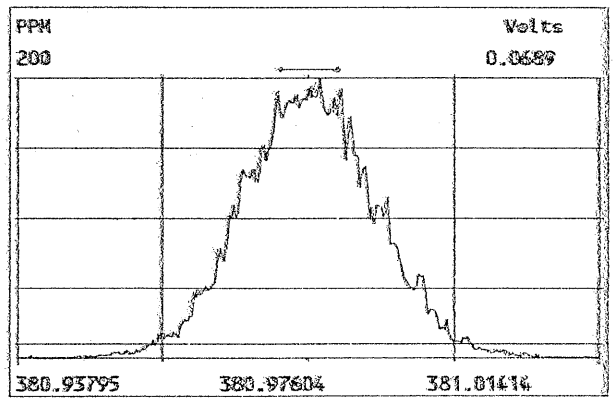






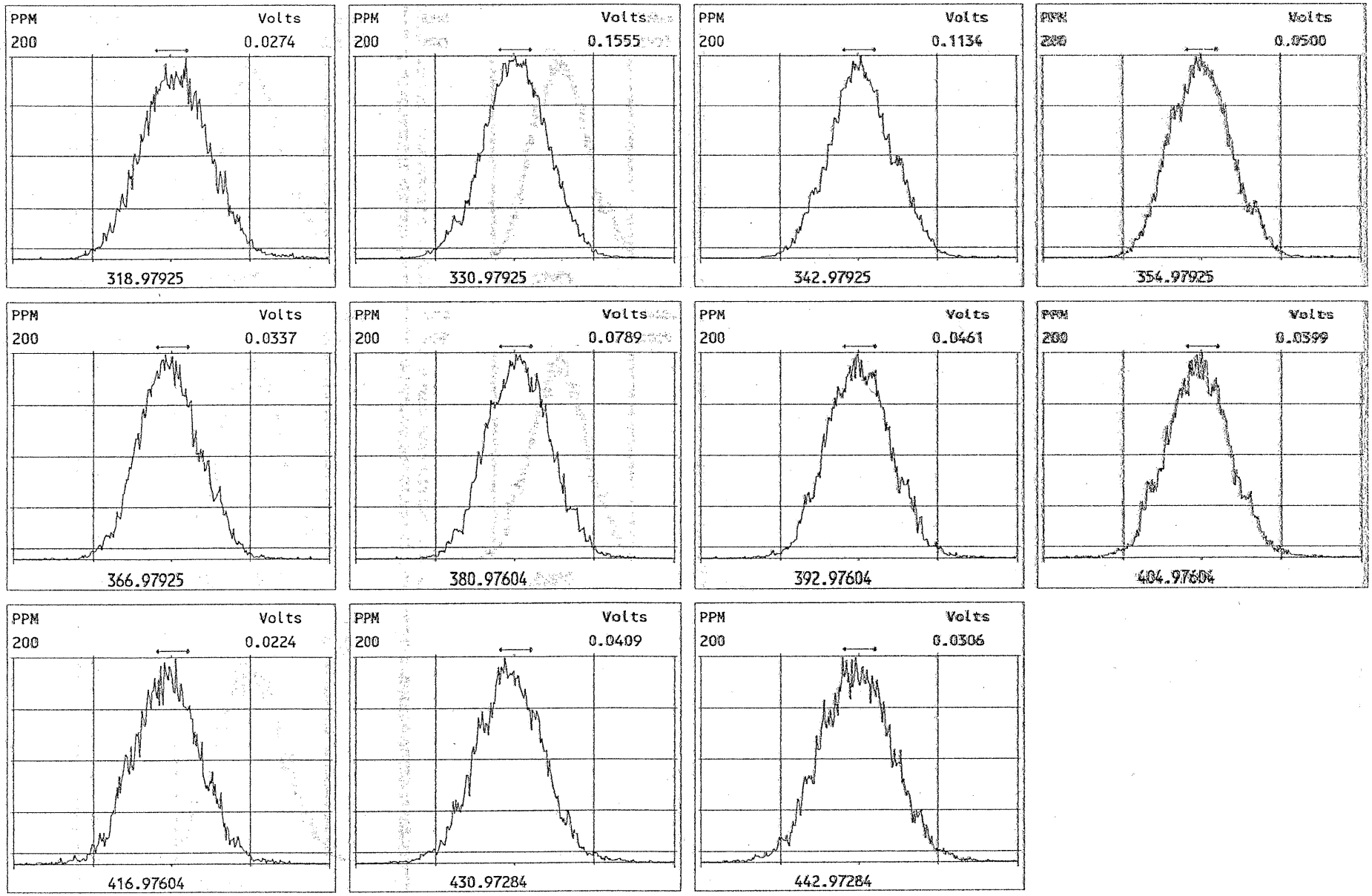
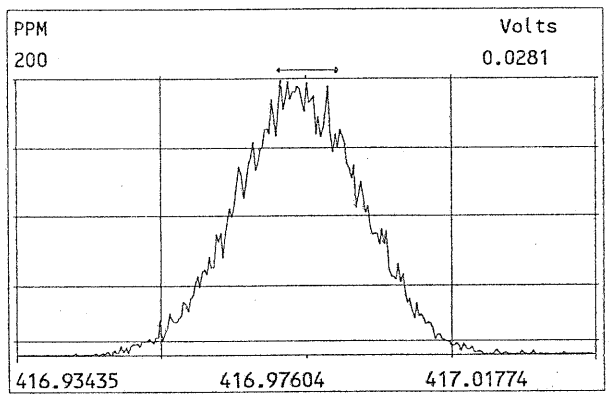
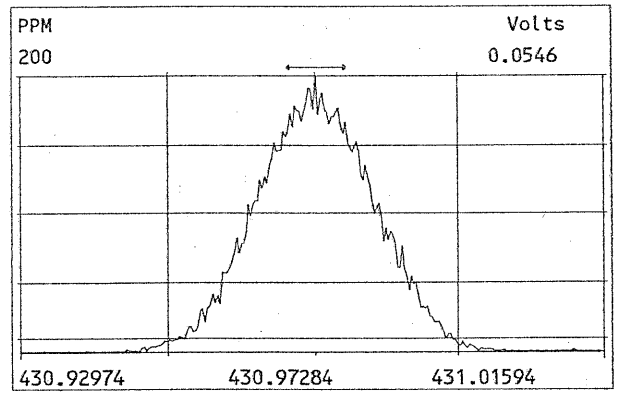
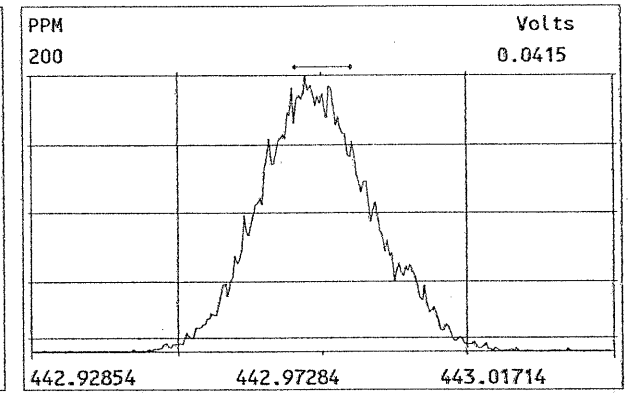
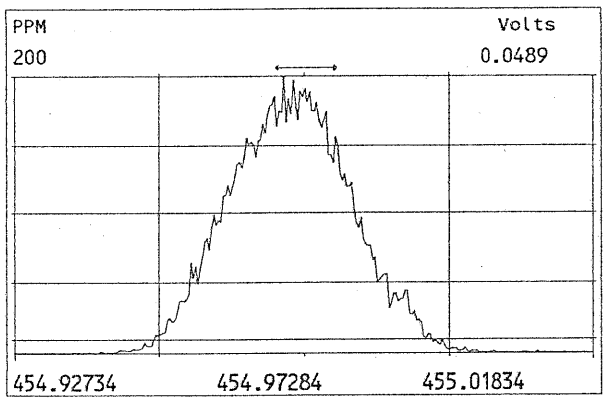
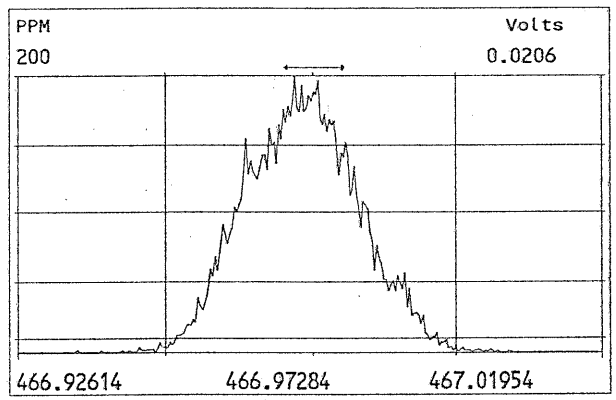
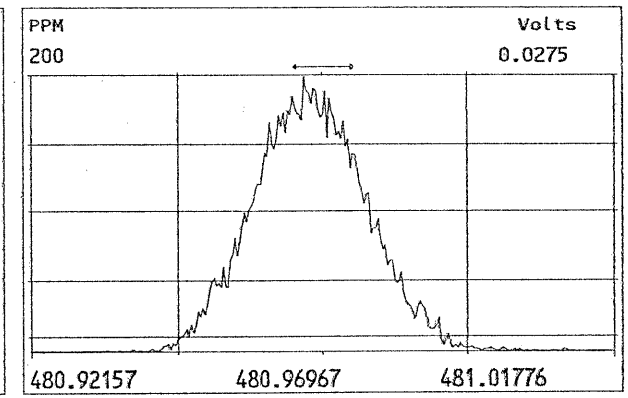
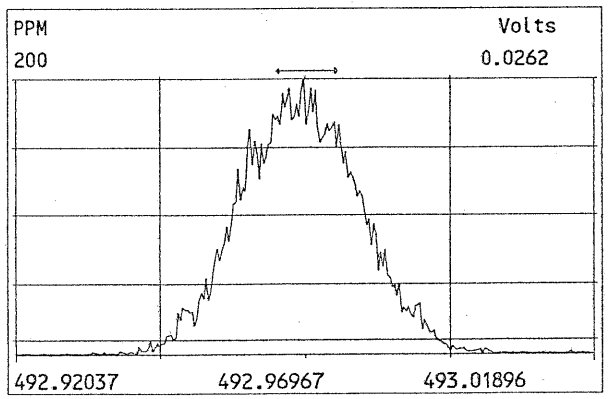
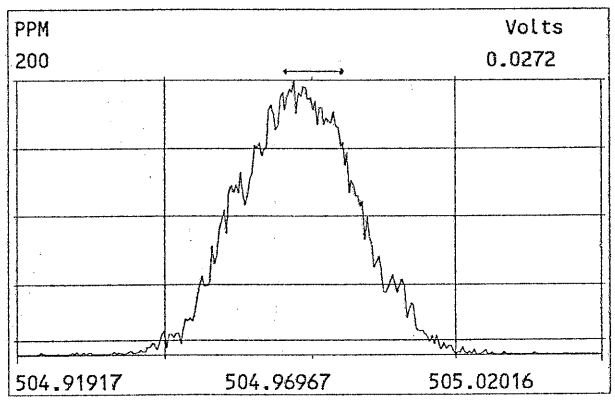
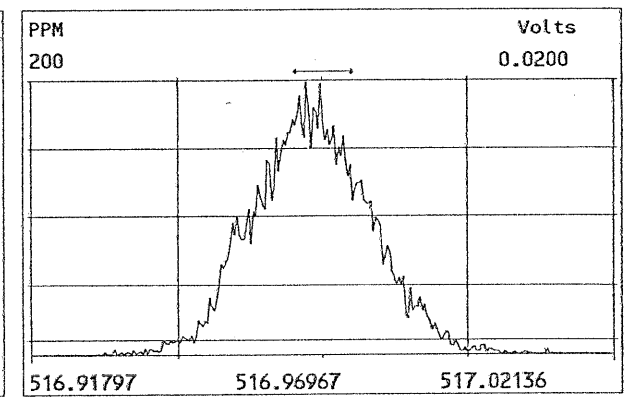






Peak Locate Examination: 2-AUG-2019:23:15 File:02AUG19Z_RES_CHECK

Experiment:1668PCB Function:5 Reference:PFK



Peak Locate Examination: 2-AUG-2019:23:18 File:02AUG19Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK