November 12, 2020

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

Dear: Dr. Heavner,

The following results are associated with Frontier Analytical Laboratory project **13371**. These results correspond to your **LDW ENR/AC Pilot Study** project. Twenty SPME fibers/Hexane samples were received on 10/01/2020 in good condition. All twenty SPME fiber/hexane samples were processed following EPA Method 1668C. As per your e-mail instructions received on 10/8/2020, only samples 13371-001-SA, 13371-002-SA, 13371-003-SA, 13371-004-SA, 13371-008-SA, 13371-009-SA, 13371-010-SA, 13371-013-SA, 13371-014-SA, 13371-015-SA, 13371-016-SA, 13371-017-SA and 13371-018-SA (Floyd Snider Sample IDs: LDW-Y3-EXTRA-S010-TB, LDW-Y3-IN-ENR+AC-CA-S010, LDW-Y3-IN-ENR+AC-CB-S010, LDW-Y3-IN-ENR+AC-CC-S010, LDW-Y3-IN-ENR-CB-S010, LDW-Y3-IN-ENR-CC-S010, LDW-Y3-IN-ENR-CD-S010, LDW-Y3-SC-ENR+AC-CA-S010, LDW-Y3-SC-ENR+AC-CA-S010-LONG, LDW-Y3-SC-ENR+AC-CB-S010, LDW-Y3-SC-ENR+AC-CB-S010-LONG, LDW-Y3-SC-ENR+AC-CC-S010 and LDW-Y3-SC-ENR+AC-CC-S010-LONG respectively) were analyzed for all 209 polychlorinated biphenyls (PCBs). The remaining seven sample extracts have been placed on hold as per your e-mail instructions. 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 twenty-two days was provided for this project **13371**.

Please note in your original report we did not include results for sample 13371-012-SA (Floyd Snider Sample ID: LDW-Y3-IN-S010-TB). This report includes the results for that sample only and thus has been paginated with the letter "A" signifying it is additional data.

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 dated 10/8/2020, 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 with chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all daily calibration standards, beginning calibration, and ending calibration injections associated with the samples and QC. The enclosed results and Electronic Data Deliverable (EDD) are specifically for the samples referenced in this report only. These results shall not be reproduced except in full. Frontier Analytical Laboratory's State of Oregon NELAP certificate number is **4041**, our State of California ELAP certificate number is **2934**, and our State of Washington certificate number is **C844**. This report and the associated electronic data deliverable have been emailed to you. A hardcopy will not be sent to you unless specifically requested.

If you have any questions regarding project **13371**, please feel free to contact me at 916-934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **13371**

Received on: **10/01/2020** Project Due: **10/23/2020** Storage: **R-3**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
13371-001-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-EXTRA-S010-TB	EPA 1668 PCB	Solvent	09/29/2020	03:22 pm	09/29/2021
13371-002-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-IN-ENR+AC-CA-S010	EPA 1668 PCB	Solvent	09/29/2020	09:53 am	09/29/2021
13371-003-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-IN-ENR+AC-CB-S010	EPA 1668 PCB	Solvent	09/29/2020	10:06 am	09/29/2021
13371-004-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-IN-ENR+AC-CC-S010	EPA 1668 PCB	Solvent	09/29/2020	10:15 am	09/29/2021
13371-005-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-IN-ENR+AC-CD-S010	EPA 1668 PCB	Solvent	09/29/2020	10:24 am	09/29/2021
13371-006-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-IN-ENR+AC-CE-S010	EPA 1668 PCB	Solvent	09/29/2020	10:29 am	09/29/2021
13371-007-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-IN-ENR-CA-S010	EPA 1668 PCB	Solvent	09/29/2020	10:41 am	09/29/2021
13371-008-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-IN-ENR-CB-S010	EPA 1668 PCB	Solvent	09/29/2020	10:50 am	09/29/2021
13371-009-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-IN-ENR-CC-S010	EPA 1668 PCB	Solvent	09/29/2020	11:01 am	09/29/2021
13371-010-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-IN-ENR-CD-S010	EPA 1668 PCB	Solvent	09/29/2020	11:13 am	09/29/2021
13371-011-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-IN-ENR-CE-S010	EPA 1668 PCB	Solvent	09/29/2020	11:21 am	09/29/2021
13371-012-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-IN-S010-TB	EPA 1668 PCB	Solvent	09/28/2020	03:15 pm	09/28/2021
13371-013-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-SC-ENR+AC-CA-S010	EPA 1668 PCB	Solvent	09/29/2020	01:42 pm	09/29/2021
13371-014-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-SC-ENR+AC-CA-S010-LONG	EPA 1668 PCB	Solvent	09/29/2020	03:44 pm	09/29/2021
13371-015-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-SC-ENR+AC-CB-S010	EPA 1668 PCB	Solvent	09/29/2020	01:51 pm	09/29/2021
13371-016-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-SC-ENR+AC-CB-S010-LONG	EPA 1668 PCB	Solvent	09/29/2020	03:54 pm	09/29/2021
13371-017-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-SC-ENR+AC-CC-S010	EPA 1668 PCB	Solvent	09/29/2020	01:59 pm	09/29/2021
13371-018-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-SC-ENR+AC-CC-S010-LONG	EPA 1668 PCB	Solvent	09/29/2020	04:02 pm	09/29/2021
13371-019-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-SC-ENR+AC-CD-S010	EPA 1668 PCB	Solvent	09/29/2020	02:07 pm	09/29/2021
13371-020-0001-SA	0	LDW ENR/AC Pilot Study	LDW-Y3-SC-ENR+AC-CD-S010-LONG	EPA 1668 PCB	Solvent	09/29/2020	04:12 pm	09/29/2021

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 13371-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X5481

Date Extracted: 10-13-2020
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-10-20-20
GC Column: DB1MS
Units: pg/sample

Acquired: 10-20-2020
Total Conc: 0.0

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	4.92			PCB-51	ND	7.40		
PCB-2	ND	5.21			PCB-52	ND	7.07	C	69
PCB-3	ND	5.45			PCB-53	ND	7.82		
PCB-4	ND	12.2			PCB-54	ND	5.96		
PCB-5	ND	8.66			PCB-55	ND	5.44		
PCB-6	ND	7.51			PCB-56	ND	6.69	C	60
PCB-7	ND	8.01			PCB-57	ND	5.75		
PCB-8	ND	8.39			PCB-58	ND	5.85		
PCB-9	ND	8.30			PCB-59	-	-	C042	42
PCB-10	ND	8.19			PCB-60	-	-	C056	56
PCB-11	ND	8.64			PCB-61	ND	6.34	C	70
PCB-12	ND	8.54			PCB-62	ND	6.34		
PCB-13	ND	8.69			PCB-63	ND	5.81		
PCB-14	ND	8.33			PCB-64	-	-	C041	41/71/72
PCB-15	ND	8.21			PCB-65	ND	6.11		
PCB-16	ND	5.51			PCB-66	ND	5.46	C	76
PCB-17	ND	6.25			PCB-67	ND	5.70		
PCB-18	ND	6.92			PCB-68	ND	5.46		
PCB-19	ND	6.98			PCB-69	-	-	C052	52
PCB-20	ND	5.87	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	5.28			PCB-72	-	-	C041	41/64/71
PCB-23	ND	5.63			PCB-73	ND	6.15		
PCB-24	ND	4.85			PCB-74	ND	5.71		
PCB-25	ND	5.99			PCB-75	-	-	C048	48
PCB-26	ND	5.94			PCB-76	-	-	C066	66
PCB-27	ND	4.69			PCB-77	ND	6.26		
PCB-28	ND	4.81			PCB-78	ND	6.09		
PCB-29	ND	5.80			PCB-79	ND	5.89		
PCB-30	ND	4.67			PCB-80	ND	4.81		
PCB-31	ND	4.81			PCB-81	ND	5.78		
PCB-32	ND	5.33			PCB-82	ND	9.45		
PCB-33	-	-	C020	20/21	PCB-83	ND	7.21	C	112
PCB-34	ND	5.92			PCB-84	ND	8.23	C	92
PCB-35	ND	5.78			PCB-85	ND	6.64	C	116
PCB-36	ND	5.60			PCB-86	ND	8.47		
PCB-37	ND	5.58			PCB-87	ND	6.39	C	117/125
PCB-38	ND	5.85			PCB-88	ND	8.27	C	91
PCB-39	ND	5.61			PCB-89	ND	8.43		
PCB-40	ND	9.99			PCB-90	ND	7.31	C	101
PCB-41	ND	6.32	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	7.13	C	59	PCB-92	-	-	C084	84
PCB-43	ND	8.16	C	49	PCB-93	ND	8.64		
PCB-44	ND	9.35			PCB-94	ND	9.06		
PCB-45	ND	8.85			PCB-95	ND	8.64		
PCB-46	ND	9.17			PCB-96	ND	6.29		
PCB-47	ND	8.04			PCB-97	ND	8.69		
PCB-48	ND	6.17	C	75	PCB-98	ND	8.37	C	102
PCB-49	-	-	C043	43	PCB-99	ND	6.88		
PCB-50	ND	7.63			PCB-100	ND	7.54		

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EPA Method 1668
PCBs

FAL ID: 13371-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X5481

Date Extracted: 10-13-2020
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-10-20-20
GC Column: DB1MS
Units: pg/sample

Acquired: 10-20-2020

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	8.89		
PCB-102	-	-	C098	98	PCB-152	ND	8.35		
PCB-103	ND	7.58			PCB-153	ND	6.50		
PCB-104	ND	6.13			PCB-154	ND	9.41		
PCB-105	ND	7.07			PCB-155	ND	8.09		
PCB-106	ND	7.41	C	118	PCB-156	ND	6.71		
PCB-107	ND	7.02	C	108	PCB-157	ND	6.06		
PCB-108	-	-	C107	107	PCB-158	ND	6.06	C	160
PCB-109	ND	5.94			PCB-159	ND	5.72		
PCB-110	ND	5.83			PCB-160	-	-	C158	158
PCB-111	ND	5.90	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	6.26			PCB-163	-	-	C138	138/164
PCB-114	ND	6.85			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	6.23		
PCB-117	-	-	C087	87/125	PCB-167	ND	6.12		
PCB-118	-	-	C	106	PCB-168	ND	6.42		
PCB-119	ND	5.72			PCB-169	ND	5.45		
PCB-120	ND	5.37			PCB-170	ND	9.10		
PCB-121	ND	6.10			PCB-171	ND	8.87		
PCB-122	ND	6.76			PCB-172	ND	9.35		
PCB-123	ND	7.63			PCB-173	ND	9.85		
PCB-124	ND	7.32			PCB-174	ND	8.70		
PCB-125	-	-	C087	87/117	PCB-175	ND	8.74		
PCB-126	ND	7.37			PCB-176	ND	6.44		
PCB-127	ND	7.39			PCB-177	ND	9.67		
PCB-128	ND	7.14	C	162	PCB-178	ND	9.06		
PCB-129	ND	9.39			PCB-179	ND	6.37		
PCB-130	ND	8.70			PCB-180	ND	9.10		
PCB-131	ND	9.07	C	133	PCB-181	ND	8.95		
PCB-132	ND	7.58	C	161	PCB-182	ND	7.96	C	187
PCB-133	-	-	C131	131	PCB-183	ND	8.19		
PCB-134	ND	9.32	C	143	PCB-184	ND	6.19		
PCB-135	ND	9.43			PCB-185	ND	8.62		
PCB-136	ND	9.20			PCB-186	ND	6.66		
PCB-137	ND	8.66			PCB-187	-	-	C182	182
PCB-138	ND	6.68	C	163/164	PCB-188	ND	7.16		
PCB-139	ND	7.67	C	149	PCB-189	ND	6.17		
PCB-140	ND	7.95			PCB-190	ND	6.87		
PCB-141	ND	8.17			PCB-191	ND	6.42		
PCB-142	ND	9.18			PCB-192	ND	7.15		
PCB-143	-	-	C134	134	PCB-193	ND	6.60		
PCB-144	ND	7.16			PCB-194	ND	8.48		
PCB-145	ND	8.41			PCB-195	ND	9.34		
PCB-146	ND	7.31	C	165	PCB-196	ND	8.71	C	203
PCB-147	ND	7.91			PCB-197	ND	6.83		
PCB-148	ND	9.74			PCB-198	ND	9.75		
PCB-149	-	-	C139	139	PCB-199	ND	9.26		
PCB-150	ND	8.23			PCB-200	ND	6.96		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 13371-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X5481

Date Extracted: 10-13-2020
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-10-20-20
GC Column: DB1MS
Units: pg/sample

Acquired: 10-20-2020

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	7.12		
PCB-202	ND	7.61		
PCB-203	-	-	C196	196
PCB-204	ND	7.01		
PCB-205	ND	7.10		
PCB-206	ND	9.74		
PCB-207	ND	7.30		
PCB-208	ND	6.98		
PCB-209	ND	7.04		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	80.0	5.00 - 145	
13C-PCB-3	82.6	5.00 - 145	
13C-PCB-4	83.8	5.00 - 145	
13C-PCB-15	86.4	5.00 - 145	
13C-PCB-19	82.4	5.00 - 145	
13C-PCB-37	101	5.00 - 145	
13C-PCB-54	87.6	5.00 - 145	
13C-PCB-77	94.6	10.0 - 145	
13C-PCB-81	97.6	10.0 - 145	
13C-PCB-104	76.2	10.0 - 145	
13C-PCB-105	97.4	10.0 - 145	
13C-PCB-114	97.1	10.0 - 145	
13C-PCB-118	99.0	10.0 - 145	
13C-PCB-123	99.3	10.0 - 145	
13C-PCB-126	96.9	10.0 - 145	
13C-PCB-155	75.9	10.0 - 145	
13C-PCB-156	87.5	10.0 - 145	
13C-PCB-157	88.3	10.0 - 145	
13C-PCB-167	88.2	10.0 - 145	
13C-PCB-169	83.4	10.0 - 145	
13C-PCB-188	83.9	10.0 - 145	
13C-PCB-189	67.9	10.0 - 145	
13C-PCB-202	75.2	10.0 - 145	
13C-PCB-205	89.5	10.0 - 145	
13C-PCB-206	83.9	10.0 - 145	
13C-PCB-208	88.7	10.0 - 145	
13C-PCB-209	79.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	103	5.00 - 145	
13C-PCB-111	88.2	10.0 - 145	
13C-PCB-178	77.9	10.0 - 145	

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

Analyst: [signature]

Date: 10/28/2020

Reviewed By: DPV

Date: 10/28/2020

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EPA Method 1668
PCBs

FAL ID: 13371-001-OPR
Client ID: OPR
Matrix: Solvent
Batch No: X5481

Date Extracted: 10-13-2020
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-10-20-20
GC Column: DB1MS
Units: ng/ml

Acquired: 10-20-2020

Compound	% Recovery	QC Limits	Qual
PCB-1	100	60.0 - 135	
PCB-3	100	60.0 - 135	
PCB-4	108	60.0 - 135	
PCB-15	99.4	60.0 - 135	
PCB-19	101	60.0 - 135	
PCB-37	97.6	60.0 - 135	
PCB-54	103	60.0 - 135	
PCB-77	103	60.0 - 135	
PCB-81	94.2	60.0 - 135	
PCB-104	102	60.0 - 135	
PCB-105	97.4	60.0 - 135	
PCB-114	98.6	60.0 - 135	
PCB-118	104	60.0 - 135	
PCB-123	108	60.0 - 135	
PCB-126	101	60.0 - 135	
PCB-155	102	60.0 - 135	
PCB-156	91.0	60.0 - 135	
PCB-157	92.0	60.0 - 135	
PCB-167	96.0	60.0 - 135	
PCB-169	98.6	60.0 - 135	
PCB-188	98.8	60.0 - 135	
PCB-189	101	60.0 - 135	
PCB-202	103	60.0 - 135	
PCB-205	99.6	60.0 - 135	
PCB-206	101	60.0 - 135	
PCB-208	98.2	60.0 - 135	
PCB-209	102	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	84.1	15.0 - 145	
13C-PCB-3	87.7	15.0 - 145	
13C-PCB-4	87.8	15.0 - 145	
13C-PCB-15	90.8	15.0 - 145	
13C-PCB-19	86.8	15.0 - 145	
13C-PCB-37	102	15.0 - 145	
13C-PCB-54	86.6	15.0 - 145	
13C-PCB-77	95.2	40.0 - 145	
13C-PCB-81	97.7	40.0 - 145	
13C-PCB-104	81.7	40.0 - 145	
13C-PCB-105	95.7	40.0 - 145	
13C-PCB-114	99.3	40.0 - 145	
13C-PCB-118	104	40.0 - 145	
13C-PCB-123	102	40.0 - 145	
13C-PCB-126	97.2	40.0 - 145	
13C-PCB-155	79.6	40.0 - 145	
13C-PCB-156	92.2	40.0 - 145	
13C-PCB-157	88.6	40.0 - 145	
13C-PCB-167	90.4	40.0 - 145	
13C-PCB-169	83.2	40.0 - 145	
13C-PCB-188	91.3	40.0 - 145	
13C-PCB-189	72.2	40.0 - 145	
13C-PCB-202	82.7	40.0 - 145	
13C-PCB-205	92.9	40.0 - 145	
13C-PCB-206	88.3	40.0 - 145	
13C-PCB-208	90.7	40.0 - 145	
13C-PCB-209	82.7	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	97.9	15.0 - 145	
13C-PCB-111	87.5	40.0 - 145	
13C-PCB-178	77.9	40.0 - 145	

Analyst: [signature]

Date: 10/28/2020

Reviewed By: DPV

Date: 10/28/2020

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EPA Method 1668
PCBs

FAL ID: 13371-012-SA
Client ID: LDW-Y3-IN-S010-TB
Matrix: Solvent
Batch No: X5481

Date Extracted: 10-13-2020
Date Received: 10-01-2020
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-20
GC Column: DB1MS
Units: pg/sample

Acquired: 11-07-2020
Total Conc: 48500

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	8.66			PCB-51	ND	11.2		
PCB-2	ND	9.17			PCB-52	ND	11.5	C	69
PCB-3	ND	9.73			PCB-53	ND	12.0		
PCB-4	ND	17.1			PCB-54	ND	9.04		
PCB-5	ND	9.58			PCB-55	62.2	-		
PCB-6	ND	9.83			PCB-56	ND	9.24	C	60
PCB-7	ND	9.71			PCB-57	ND	9.25		
PCB-8	ND	9.90			PCB-58	ND	8.55		
PCB-9	ND	9.85			PCB-59	-	-	C042	42
PCB-10	ND	9.12			PCB-60	-	-	C056	56
PCB-11	89.8	-			PCB-61	ND	10.0	C	70
PCB-12	ND	10.4			PCB-62	ND	9.09		
PCB-13	ND	10.4			PCB-63	ND	9.18		
PCB-14	2710	-			PCB-64	-	-	C041	41/71/72
PCB-15	ND	9.73			PCB-65	ND	10.0		
PCB-16	ND	10.3			PCB-66	ND	8.97	C	76
PCB-17	ND	11.4			PCB-67	ND	10.1		
PCB-18	ND	12.3			PCB-68	ND	8.81		
PCB-19	ND	12.2			PCB-69	-	-	C052	52
PCB-20	ND	9.41	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	8.22			PCB-72	-	-	C041	41/64/71
PCB-23	ND	8.01			PCB-73	21.6	-		
PCB-24	ND	8.99			PCB-74	ND	9.64		
PCB-25	ND	9.30			PCB-75	-	-	C048	48
PCB-26	ND	9.16			PCB-76	-	-	C066	66
PCB-27	ND	8.85			PCB-77	ND	9.93		
PCB-28	ND	7.83			PCB-78	4630	-		
PCB-29	ND	8.66			PCB-79	ND	8.80		
PCB-30	ND	8.46			PCB-80	ND	7.81		
PCB-31	ND	8.65			PCB-81	ND	8.64		
PCB-32	ND	9.61			PCB-82	ND	14.1		
PCB-33	-	-	C020	20/21	PCB-83	ND	10.8	C	112
PCB-34	ND	9.62			PCB-84	ND	11.8	C	92
PCB-35	ND	9.81			PCB-85	ND	9.93	C	116
PCB-36	1760	-			PCB-86	ND	12.3		
PCB-37	ND	9.52			PCB-87	ND	9.55	C	117/125
PCB-38	ND	9.14			PCB-88	ND	10.2	C	91
PCB-39	ND	9.20			PCB-89	ND	12.0		
PCB-40	ND	15.8			PCB-90	ND	10.8	C	101
PCB-41	ND	10.0	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	10.5	C	59	PCB-92	-	-	C084	84
PCB-43	ND	12.6	C	49	PCB-93	ND	10.7		
PCB-44	ND	14.5			PCB-94	ND	11.2		
PCB-45	ND	13.7			PCB-95	ND	10.5		
PCB-46	ND	14.4			PCB-96	ND	7.76		
PCB-47	ND	11.9			PCB-97	ND	12.4		
PCB-48	ND	10.1	C	75	PCB-98	ND	10.7	C	102
PCB-49	-	-	C043	43	PCB-99	ND	9.27		
PCB-50	ND	11.6			PCB-100	ND	9.21		

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EPA Method 1668
PCBs

FAL ID: 13371-012-SA
Client ID: LDW-Y3-IN-S010-TB
Matrix: Solvent
Batch No: X5481

Date Extracted: 10-13-2020
Date Received: 10-01-2020
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-20
GC Column: DB1MS
Units: pg/sample

Acquired: 11-07-2020

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	10.1		
PCB-102	-	-	C098	98	PCB-152	ND	11.8		
PCB-103	ND	9.47			PCB-153	ND	8.52		
PCB-104	3780	-			PCB-154	ND	13.7		
PCB-105	ND	8.88			PCB-155	5600	-		
PCB-106	ND	8.08	C	118	PCB-156	ND	7.54		
PCB-107	ND	8.37	C	108	PCB-157	ND	8.37		
PCB-108	-	-	C107	107	PCB-158	ND	7.64	C	160
PCB-109	ND	8.68			PCB-159	ND	7.33		
PCB-110	ND	8.31			PCB-160	-	-	C158	158
PCB-111	ND	8.32	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	10.1			PCB-163	-	-	C138	138/164
PCB-114	ND	8.18			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	7.86		
PCB-117	-	-	C087	87/125	PCB-167	ND	8.81		
PCB-118	-	-	C	106	PCB-168	ND	7.63		
PCB-119	ND	8.48			PCB-169	ND	7.72		
PCB-120	ND	8.18			PCB-170	ND	12.5		
PCB-121	5220	-			PCB-171	ND	11.6		
PCB-122	ND	8.19			PCB-172	143	-		
PCB-123	ND	8.52			PCB-173	ND	12.3		
PCB-124	ND	8.31			PCB-174	ND	12.4		
PCB-125	-	-	C087	87/117	PCB-175	ND	11.3		
PCB-126	ND	9.38			PCB-176	ND	8.77		
PCB-127	ND	8.75			PCB-177	ND	12.2		
PCB-128	ND	9.11	C	162	PCB-178	ND	12.0		
PCB-129	ND	10.8			PCB-179	ND	8.33		
PCB-130	ND	11.4			PCB-180	ND	11.7		
PCB-131	ND	11.1	C	133	PCB-181	ND	10.4		
PCB-132	ND	8.91	C	161	PCB-182	ND	10.5	C	187
PCB-133	-	-	C131	131	PCB-183	ND	10.6		
PCB-134	ND	11.3	C	143	PCB-184	6080	-		
PCB-135	ND	10.1			PCB-185	ND	11.6		
PCB-136	ND	12.1			PCB-186	ND	8.59		
PCB-137	ND	9.90			PCB-187	-	-	C182	182
PCB-138	ND	8.51	C	163/164	PCB-188	ND	9.81		
PCB-139	ND	9.32	C	149	PCB-189	ND	7.97		
PCB-140	ND	9.18			PCB-190	ND	9.10		
PCB-141	ND	9.91			PCB-191	ND	8.87		
PCB-142	928	-			PCB-192	5000	-		
PCB-143	-	-	C134	134	PCB-193	ND	8.61		
PCB-144	ND	9.85			PCB-194	ND	12.9		
PCB-145	ND	11.5			PCB-195	ND	13.2		
PCB-146	ND	8.46	C	165	PCB-196	ND	13.4	C	203
PCB-147	ND	9.12			PCB-197	61.0	-		
PCB-148	ND	14.9			PCB-198	ND	14.8		
PCB-149	-	-	C139	139	PCB-199	ND	14.5		
PCB-150	ND	11.7			PCB-200	ND	10.7		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 13371-012-SA
Client ID: LDW-Y3-IN-S010-TB
Matrix: Solvent
Batch No: X5481

Date Extracted: 10-13-2020
Date Received: 10-01-2020
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-20
GC Column: DB1MS
Units: pg/sample

Acquired: 11-07-2020

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	10.7		
PCB-202	ND	11.5		
PCB-203	-	-	C196	196
PCB-204	12300	-		
PCB-205	ND	10.4		
PCB-206	ND	13.2		
PCB-207	43.1	-		
PCB-208	ND	8.88		
PCB-209	63.6	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	85.8	5.00 - 145	
13C-PCB-3	86.2	5.00 - 145	
13C-PCB-4	88.5	5.00 - 145	
13C-PCB-15	98.2	5.00 - 145	
13C-PCB-19	91.6	5.00 - 145	
13C-PCB-37	94.8	5.00 - 145	
13C-PCB-54	88.6	5.00 - 145	
13C-PCB-77	94.1	10.0 - 145	
13C-PCB-81	94.7	10.0 - 145	
13C-PCB-104	91.6	10.0 - 145	
13C-PCB-105	89.7	10.0 - 145	
13C-PCB-114	92.3	10.0 - 145	
13C-PCB-118	90.2	10.0 - 145	
13C-PCB-123	88.6	10.0 - 145	
13C-PCB-126	95.8	10.0 - 145	
13C-PCB-155	83.0	10.0 - 145	
13C-PCB-156	93.6	10.0 - 145	
13C-PCB-157	91.5	10.0 - 145	
13C-PCB-167	91.6	10.0 - 145	
13C-PCB-169	94.3	10.0 - 145	
13C-PCB-188	81.5	10.0 - 145	
13C-PCB-189	87.2	10.0 - 145	
13C-PCB-202	79.9	10.0 - 145	
13C-PCB-205	94.4	10.0 - 145	
13C-PCB-206	84.2	10.0 - 145	
13C-PCB-208	91.9	10.0 - 145	
13C-PCB-209	81.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	99.9	5.00 - 145	
13C-PCB-111	87.6	10.0 - 145	
13C-PCB-178	88.0	10.0 - 145	

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

Analyst: [signature]

Date: 11/12/2020

Reviewed By: DPV

Date: 11/12/2020

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CHAIN OF CUSTODY

EcoAnalysts
LIFE IN WATER

13371
gpc

EcoAnalysts, Inc.
4770 NE View Dr., Port Gamble, WA. 98364
Tel: (360) 297-6040

Destination: Frontier Analytical Lab	Sample Originator (Organization): EcoAnalysts & Geosyntec	Report Results To: Geosyntec	Phone: 714-465-1226 or 949-228-6013
Destination Contact: Brad Silverbush	PERSON WHO COLLECTED SAMPLE: Jason Conder	Contact Name: Jason Conder	Fax: --
Date: 9/30/20	Address: 4770 NE View Dr. Port Gamble WA 98364	Lab Address: --	Email: jconder@geosyntec.com
Turn-Around-Time: Standard			
Project Name: LDW ENR/AC Pilot Study	Phone: 714-465-1226 or 949-228-6013	Analyses:	Invoicing To: Wood (attn: Diane Shannon and Cliff Whimus)
	Fax: --		Comments or Special Instructions: Please contact Jason Conder with analysis instructions
Contract/PO:	E-mail: jconder@geosyntec.com		

No.	Sample ID	Matrix	Volume & Type of Container	Date & Time		PCBs						Preservation	Sample Temp Upon Receipt	LAB ID
1	LDW-Y3-EXTRA -S010-TB	SPME fibers + hexane	1 Vial	9/29/2020	1522	X						4°C		
2	LDW-Y3-IN-ENR+AC-CA-S010	SPME fibers + hexane	1 Vial	9/29/2020	953	X						4°C		
3	LDW-Y3-IN-ENR+AC-CB-S010	SPME fibers + hexane	1 Vial	9/29/2020	1006	X						4°C		
4	LDW-Y3-IN-ENR+AC-CC-S010	SPME fibers + hexane	1 Vial	9/29/2020	1015	X						4°C		
5	LDW-Y3-IN-ENR+AC-CD-S010	SPME fibers + hexane	1 Vial	9/29/2020	1024	X						4°C		
6	LDW-Y3-IN-ENR+AC-CE-S010	SPME fibers + hexane	1 Vial	9/29/2020	1029	X						4°C		
7	LDW-Y3-IN-ENR-CA-S010	SPME fibers + hexane	1 Vial	9/29/2020	1041	X						4°C		
8	LDW-Y3-IN-ENR-CB-S010	SPME fibers + hexane	1 Vial	9/29/2020	1050	X						4°C		
9	LDW-Y3-IN-ENR-CC-S010	SPME fibers + hexane	1 Vial	9/29/2020	1101	X						4°C		
10	LDW-Y3-IN-ENR-CD-S010	SPME fibers + hexane	1 Vial	9/29/2020	1113	X						4°C		
11	LDW-Y3-IN-ENR-CE-S010	SPME fibers + hexane	1 Vial	9/29/2020	1121	X						4°C		
12	LDW-Y3-IN-S010-TB	SPME fibers + hexane	1 Vial	9/28/2020	1515	X						4°C		
13	LDW-Y3-SC-ENR+AC-CA-S010	SPME fibers + hexane	1 Vial	9/29/2020	1342	X						4°C		
14	LDW-Y3-SC-ENR+AC-CA-S010-LONG	SPME fibers + hexane	1 Vial	9/29/2020	1544	X						4°C		
15	LDW-Y3-SC-ENR+AC-CB-S010	SPME fibers + hexane	1 Vial	9/29/2020	1351	X						4°C		
16	LDW-Y3-SC-ENR+AC-CB-S010-LONG	SPME fibers + hexane	1 Vial	9/29/2020	1554	X						4°C		
17	LDW-Y3-SC-ENR+AC-CC-S010	SPME fibers + hexane	1 Vial	9/29/2020	1359	X						4°C		
18	LDW-Y3-SC-ENR+AC-CC-S010-LONG	SPME fibers + hexane	1 Vial	9/29/2020	1602	X						4°C		
19	LDW-Y3-SC-ENR+AC-CD-S010	SPME fibers + hexane	1 Vial	9/29/2020	1407	X						4°C		
20	LDW-Y3-SC-ENR+AC-CD-S010-LONG	SPME fibers + hexane	1 Vial	9/29/2020	1612	X						4°C		

Relinquished by:	Received by:	Relinquished by:	Received by:	Matrix Codes
Print Name: Michelle Knowlen	Print Name: Kathy Zipp	Print Name:	Print Name:	FW = Fresh Water
Signature: M. Knowlen	Signature: Kathy Zipp	Signature:	Signature:	SB = Salt & Brackish Water
Affiliation: EcoAnalysts	Affiliation: Frontier Analytical	Affiliation:	Affiliation:	SS = Soil & Sediment
Date/Time: 9/30/20 1230	Date/Time: 10/01/2020 1010	Date/Time:	Date/Time:	

Gretchen to Kathy → log in under Floyd Snider

9000419 01 000381

Subject: FW: KC ENR-AC Pilot Study SPME compositing plan
From: "Brad Silverbush" <brads@frontieranalytical.com>
Date: 10/29/2020, 8:20 AM
To: "Dan Vickers" <danv@frontieranalytical.com>

Bradley B. Silverbush
Director of Operations
Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
916-934-0900
brads@frontieranalytical.com
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ANALYTICAL LABORATORY
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From: Gretchen Heavner [mailto:Gretchen.Heavner@floydsnider.com]
Sent: Thursday, October 08, 2020 8:50 AM
To: Brad Silverbush; Kathy Zipp
Subject: KC ENR-AC Pilot Study SPME compositing plan

Hello,
Attached is the composting plan for the Y3 SPMEs. Let me know if you have any questions! This is for SDGs 13371, 13372 and 13373.

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

Virus-free. www.avg.com

Attachments:

Y3 SPME analysis plan (093020 jmc).xlsx	45.4 KB

Sample ID	Plot	Subplot	Composite	SPME Type	Analyze in First Round? (Primary Sample)	Note
LDW-Y3-SC-ENR+AC-CA-S010	Scour	ENR-AC	A	Std	Y	
LDW-Y3-SC-ENR+AC-CB-S010	Scour	ENR-AC	B	Std	Y	
LDW-Y3-SC-ENR+AC-CC-S010	Scour	ENR-AC	C	Std	Y	
LDW-Y3-SC-ENR+AC-CD-S010	Scour	ENR-AC	D	Std		
LDW-Y3-SC-ENR+AC-CE-S010	Scour	ENR-AC	E	Std		
LDW-Y3-SC-ENR+AC-CA-S010-LONG	Scour	ENR-AC	A	LONG	Y	
LDW-Y3-SC-ENR+AC-CB-S010-LONG	Scour	ENR-AC	B	LONG	Y	
LDW-Y3-SC-ENR+AC-CC-S010-LONG	Scour	ENR-AC	C	LONG	Y	
LDW-Y3-SC-ENR+AC-CD-S010-LONG	Scour	ENR-AC	D	LONG		
LDW-Y3-SC-ENR+AC-CE-S010-LONG	Scour	ENR-AC	E	LONG		
LDW-Y3-SC-ENR+AC-S010-DEP	Scour	ENR-AC	Silt	Std	Y	
LDW-Y3-SC-ENR-CA-S010	Scour	ENR	A	Std	Y	
LDW-Y3-SC-ENR-CB-S010	Scour	ENR	B	Std		
LDW-Y3-SC-ENR-CC-S010	Scour	ENR	C	Std	Y	
LDW-Y3-SC-ENR-CD-S010	Scour	ENR	D	Std	Y	
LDW-Y3-SC-ENR-CE-S010	Scour	ENR	E	Std		
LDW-Y3-SC-ENR-CA-S010-LONG	Scour	ENR	A	LONG	Y	
LDW-Y3-SC-ENR-CB-S010-LONG	Scour	ENR	B	LONG		
LDW-Y3-SC-ENR-CC-S010-LONG	Scour	ENR	C	LONG	Y	
LDW-Y3-SC-ENR-CD-S010-LONG	Scour	ENR	D	LONG	Y	
LDW-Y3-SC-ENR-CE-S010-LONG	Scour	ENR	E	LONG		
LDW-Y3-SC-ENR-S010-DEP	Scour	ENR	Silt	Std	Y	
LDW-Y3-SU-ENR+AC-CA-S010	Scour	ENR-AC	A	Std	Y	
LDW-Y3-SU-ENR+AC-CB-S010	Subtidal	ENR-AC	B	Std		B sample only had 5 SPMEs, so use D instead
LDW-Y3-SU-ENR+AC-CC-S010	Subtidal	ENR-AC	C	Std	Y	
LDW-Y3-SU-ENR+AC-CD-S010	Subtidal	ENR-AC	D	Std	Y	
LDW-Y3-SU-ENR+AC-CE-S010	Subtidal	ENR-AC	E	Std		
LDW-Y3-SU-ENR+AC-CA-S010-BIO	Subtidal bioaccum	ENR-AC	A	Std	Y	
LDW-Y3-SU-ENR+AC-CB-S010-BIO	Subtidal bioaccum	ENR-AC	B	Std	Y	
LDW-Y3-SU-ENR+AC-CC-S010-BIO	Subtidal bioaccum	ENR-AC	C	Std	Y	
LDW-Y3-SU-ENR-CA-S010	Subtidal	ENR	A	Std	Y	
LDW-Y3-SU-ENR-CB-S010	Subtidal	ENR	B	Std	Y	
LDW-Y3-SU-ENR-CC-S010	Subtidal	ENR	C	Std	Y	
LDW-Y3-SU-ENR-CD-S010	Subtidal	ENR	D	Std		
LDW-Y3-SU-ENR-CE-S010	Subtidal	ENR	E	Std		
LDW-Y3-SU-ENR-CA-S010-BIO	Subtidal bioaccum	ENR	A	Std	Y	
LDW-Y3-SU-ENR-CB-S010-BIO	Subtidal bioaccum	ENR	B	Std	Y	
LDW-Y3-SU-ENR-CC-S010-BIO	Subtidal bioaccum	ENR	C	Std	Y	
LDW-Y3-SU-S010-LCB	Subtidal	Overlying water	Water	Std	Y	
LDW-Y3-LBS-WAT-S010-SPME	Subtidal bioaccum	Overlying water	Water	Std	Y	
LDW-Y3-IN-ENR+AC-CA-S010	Intertidal	ENR-AC	A	Std	Y	
LDW-Y3-IN-ENR+AC-CB-S010	Intertidal	ENR-AC	B	Std	Y	
LDW-Y3-IN-ENR+AC-CC-S010	Intertidal	ENR-AC	C	Std	Y	
LDW-Y3-IN-ENR+AC-CD-S010	Intertidal	ENR-AC	D	Std		
LDW-Y3-IN-ENR+AC-CE-S010	Intertidal	ENR-AC	E	Std		
LDW-Y3-IN-ENR-CA-S010	Intertidal	ENR	A	Std		
LDW-Y3-IN-ENR-CB-S010	Intertidal	ENR	B	Std	Y	
LDW-Y3-IN-ENR-CC-S010	Intertidal	ENR	C	Std	Y	
LDW-Y3-IN-ENR-CD-S010	Intertidal	ENR	D	Std	Y	
LDW-Y3-IN-ENR-CE-S010	Intertidal	ENR	E	Std		
LDW-Y3-EXTRA -S010-TB	Extra	Extra	TB	Std	Y	
LDW-Y3-SC-S010-TB	Scour	TB	TB	Std	Y	
LDW-Y3-SU-S010-TB	Subtidal	TB	TB	Std	Y	
LDW-Y3-IN-S010-TB	Intertidal	TB	TB	Std	Y	

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **13371**

Client:	Floyd | Snider
Client Project ID:	LDW ENR/AC Pilot Study
Date Received:	10/01/2020
Time Received:	10:10 am
Received By:	KZ
Logged In By:	RR
# of Samples Received:	20
Duplicates:	0
Storage Location:	R-3

Method of Delivery:	Fed-Ex
Tracking Number:	771673396443
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	0
Cooling Method	Blue Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A
Anomalies or additional comments:	

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PROJECT REQUEST SHEET

Project #:	13371	Sample #:	~~1-20~~ 1-15 KC 10-13-20	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	09/28/2021
Matrix:	Solvent	Extraction Batch:	5481	Due Date:	10/23/2020
Method:	EPA 1668 PCB			Storage:	R-3
SOP:	SOPs: EP1A Rev.15/IP1A Rev.12				

COMMENTS/INSTRUCTIONS:

Results: 13371

Instrument:

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

Extract/s located in box: "Wind Mill"

Standards: 13371

Extract + Hold 5, 6, 7, 11, ~~12~~ KC 11-5-20

Analyze: 13371 - 1, 2, 3, 4, 8, 9, 10, 12, 13, 14, 15

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EXTRACTION SHEET

Project #: 13371 Extraction Date: 2020-10-13 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: R200204A Vial: 5 Chemist/Witness/Date	NS Amt: 10.0uL ID: 200609A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: 200507A Vial: 2 Chemist/Witness/Date
05481-001-0001-MB	(5.00mL)	NA	KC 10-13-20	NA	KC 10-13-20
05481-001-0001-OPR	(5.00mL)			KC 10-13-20	
13371-001-0001-SA	5.70mL			NA	
13371-002-0001-SA	5.70mL				
13371-003-0001-SA	5.80mL				
13371-004-0001-SA	5.70mL				
13371-005-0001-SA	5.90mL				
13371-006-0001-SA	5.80mL				
13371-007-0001-SA	5.90mL				
13371-008-0001-SA	5.80mL				
13371-009-0001-SA	5.80mL				
13371-010-0001-SA	5.60mL				
13371-011-0001-SA	5.80mL				
13371-012-0001-SA	5.70mL				
13371-013-0001-SA	4.70mL				
13371-014-0001-SA	5.50mL				
13371-015-0001-SA	5.60mL				

AX-21 Charcoal Cleaned	091619	Acetone	201164	Acid Alumina	A0388461	Hexane	201567
Methanol	200718	Methylene Chloride (DCM)	59353	Silica Gel	TA5086934	Sodium Hydroxide 1N	193250
Sodium Sulfate	2019111895	Sulfuric Acid	198700	Tetradecane	200273	Toluene	184485
Water	200375	C-18 Empore Discs	31496	Cyclohexane	58152		

Comments:

- MB and OPR blank matrix = 5.00mL Hexane.
- Sample volumes are approximate, measured using a 5mL pipette.

KC 10-13-20

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 13371

Method/Analysis: EPA 1668 PCB

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

Sample ID	Cleanup 1 PCB-MSG Chemist/Date	Cleanup 2 NA Chemist/Date	Cleanup 3 NA Chemist/Date	RS Amt: 10.0uL ID: 200707A Vial: 1 Chemist/Witness/Date
05481-001-0001-MB	KC 10-13-20	NA	NA	KC RR 10-13-20
05481-001-0001-OPR				
13371-001-0001-SA				
13371-002-0001-SA				
13371-003-0001-SA				
13371-004-0001-SA				
13371-005-0001-SA				
13371-006-0001-SA				
13371-007-0001-SA				
13371-008-0001-SA				
13371-009-0001-SA				
13371-010-0001-SA				
13371-011-0001-SA				
13371-012-0001-SA				
13371-013-0001-SA				
13371-014-0001-SA				
13371-015-0001-SA				

AX-21 Charcoal Cleaned	091619	Acetone	201164	Acid Alumina	A0388461	Hexane	201567
Methanol	200718	Methylene Chloride (DCM)	59353	Silica Gel	TA5086934	Sodium Hydroxide 1N	193250
Sodium Sulfate	2019111895	Sulfuric Acid	198700	Tetradecane	200273	Toluene	184485
Water	200375	C-18 Empore Discs	31496	Cyclohexane	58152		

Comments:

FAL ID: 05481-001-0001-MB Filename: 20OCT20Z Sam:3 Acquired: 20-OCT-20 10:37:49 ICal: DAILY209FAL4-10-20-20
Client ID: Method Blank ConCal: ST102020Z1 EndCal: ST102020Z2
Results: 13371 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	* n	NotFnd	1.32	*		1540	1270	4.92			
13C-PCB-1	3.18e+07	3.25 y	14:30	0.87	8000					80.0	8.25e+06	2.54e+06
PCB-2	*	* n	NotFnd	1.31	*		1540	1270	5.21			
PCB-3	*	* n	NotFnd	1.32	*		1540	1270	5.45			
13C-PCB-3	3.12e+07	3.23 y	16:55	0.82	8260					82.6	7.50e+06	2.30e+06
PCB-4	*	* n	NotFnd	1.06	*		756	3210	12.2			
PCB-10	*	* n	NotFnd	1.30	*		756	3210	8.19			
13C-PCB-4	2.51e+07	1.59 y	18:09	0.65	8380					83.8	4.73e+06	2.95e+06
PCB-9	*	* n	NotFnd	1.28	*		756	3210	8.30			
PCB-7	*	* n	NotFnd	1.33	*		756	3210	8.01			
PCB-6	*	* n	NotFnd	1.42	*		756	3210	7.51			
PCB-8	*	* n	NotFnd	1.27	*		756	3210	8.39			
PCB-5	*	* n	NotFnd	1.23	*		756	3210	8.66			
PCB-14	*	* n	NotFnd	1.28	*		756	3210	8.33			
PCB-11	*	* n	NotFnd	1.23	*		756	3210	8.64			
PCB-13	*	* n	NotFnd	1.22	*		756	3210	8.69			
PCB-12	*	* n	NotFnd	1.25	*		756	3210	8.54			
PCB-15	*	* n	NotFnd	1.12	*		756	3210	8.21			
13C-PCB-15	4.03e+07	1.65 y	23:40	1.02	8640					86.4	6.70e+06	4.04e+06
PCB-19	*	* n	NotFnd	1.27	*		984	564	6.98			
PCB-30	*	* n	NotFnd	1.90	*		984	564	4.67			
PCB-18	*	* n	NotFnd	1.28	*		984	564	6.92			
PCB-17	*	* n	NotFnd	1.42	*		984	564	6.25			
PCB-27	*	* n	NotFnd	1.89	*		984	564	4.69			
PCB-24	*	* n	NotFnd	1.83	*		984	564	4.85			
PCB-16	*	* n	NotFnd	1.61	*		984	564	5.51			
PCB-32	*	* n	NotFnd	1.67	*		984	564	5.33			
13C-PCB-19	1.58e+07	1.11 y	22:02	0.42	8240					82.4	2.28e+06	2.08e+06
13C-PCB-9	4.59e+07	1.62 y	19:49	-	62.8							
PCB-34	*	* n	NotFnd	1.07	*		987	1140	5.92			
PCB-23	*	* n	NotFnd	1.13	*		987	1140	5.63			
PCB-29	*	* n	NotFnd	1.09	*		987	1140	5.80			
PCB-26	*	* n	NotFnd	1.07	*		987	1140	5.94			
PCB-25	*	* n	NotFnd	1.06	*		987	1140	5.99			
PCB-31	*	* n	NotFnd	1.32	*		987	1140	4.81			
PCB-28	*	* n	NotFnd	1.32	*		987	1140	4.81			
PCB-20	*	* n	NotFnd	1.08	*		987	1140	5.87		Co-elute PCB 21/33	
PCB-21	*	* n	NotFnd	1.08	*		987	1140	5.87		Co-elute PCB 20/33	
PCB-33	*	* n	NotFnd	1.08	*		987	1140	5.87		Co-elute PCB 20/21	
PCB-22	*	* n	NotFnd	1.20	*		987	1140	5.28			
PCB-36	*	* n	NotFnd	1.13	*		987	1140	5.60			
PCB-39	*	* n	NotFnd	1.13	*		987	1140	5.61			
PCB-38	*	* n	NotFnd	1.08	*		987	1140	5.85			
PCB-35	*	* n	NotFnd	1.10	*		987	1140	5.78			
PCB-37	*	* n	NotFnd	1.14	*		987	1140	5.58			
13C-PCB-37	3.58e+07	1.11 y	30:18	1.64	10100					101	4.36e+06	4.01e+06

PCB-54	*	*	n	NotFnd	1.36	*	848	981	5.96			
PCB-50	*	*	n	NotFnd	1.06	*	848	981	7.63			
PCB-53	*	*	n	NotFnd	1.04	*	848	981	7.82			
PCB-51	*	*	n	NotFnd	1.10	*	848	981	7.40			
PCB-45	*	*	n	NotFnd	0.92	*	848	981	8.85			
PCB-46	*	*	n	NotFnd	0.88	*	848	981	9.17			
PCB-52	*	*	n	NotFnd	1.15	*	848	981	7.07	Co-elute PCB 69		
PCB-69	*	*	n	NotFnd	1.15	*	848	981	7.07	Co-elute PCB 52		
PCB-73	*	*	n	NotFnd	1.32	*	848	981	6.15			
PCB-43	*	*	n	NotFnd	0.99	*	848	981	8.16	Co-elute PCB 49		
PCB-49	*	*	n	NotFnd	0.99	*	848	981	8.16	Co-elute PCB 43		
PCB-47	*	*	n	NotFnd	1.01	*	848	981	8.04			
PCB-48	*	*	n	NotFnd	1.31	*	848	981	6.17	Co-elute PCB 75		
PCB-75	*	*	n	NotFnd	1.31	*	848	981	6.17	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.33	*	848	981	6.11			
PCB-62	*	*	n	NotFnd	1.28	*	848	981	6.34			
PCB-44	*	*	n	NotFnd	0.87	*	848	981	9.35			
PCB-42	*	*	n	NotFnd	1.14	*	848	981	7.13	Co-elute PCB 59		
PCB-59	*	*	n	NotFnd	1.14	*	848	981	7.13	Co-elute PCB 42		
PCB-72	*	*	n	NotFnd	1.28	*	848	981	6.32	Co-elute PCB 41/71/64		
PCB-41	*	*	n	NotFnd	1.28	*	848	981	6.32	Co-elute PCB 72/71/64		
PCB-71	*	*	n	NotFnd	1.28	*	848	981	6.32	Co-elute PCB 72/41/64		
PCB-64	*	*	n	NotFnd	1.28	*	848	981	6.32	Co-elute PCB 72/41/71		
PCB-68	*	*	n	NotFnd	1.49	*	848	981	5.46			
PCB-40	*	*	n	NotFnd	0.81	*	848	981	9.99			
PCB-57	*	*	n	NotFnd	1.41	*	848	981	5.75			
PCB-67	*	*	n	NotFnd	1.42	*	848	981	5.70			
PCB-58	*	*	n	NotFnd	1.39	*	848	981	5.85			
PCB-63	*	*	n	NotFnd	1.40	*	848	981	5.81			
PCB-74	*	*	n	NotFnd	1.42	*	848	981	5.71			
PCB-61	*	*	n	NotFnd	1.28	*	848	981	6.34	Co-elute PCB 70		
PCB-70	*	*	n	NotFnd	1.28	*	848	981	6.34	Co-elute PCB 61		
PCB-76	*	*	n	NotFnd	1.49	*	848	981	5.46	Co-elute PCB 66		
PCB-66	*	*	n	NotFnd	1.49	*	848	981	5.46	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.69	*	848	981	4.81			
PCB-55	*	*	n	NotFnd	1.49	*	848	981	5.44			
13C-PCB-54	2.13e+07	0.82	y	25:34	1.13	8760				87.6	2.55e+06	3.08e+06
PCB-104	*	*	n	NotFnd	1.18	*	532	536	6.13			
PCB-96	*	*	n	NotFnd	1.15	*	532	536	6.29			
PCB-103	*	*	n	NotFnd	0.95	*	532	536	7.58			
PCB-100	*	*	n	NotFnd	0.96	*	532	536	7.54			
PCB-94	*	*	n	NotFnd	0.79	*	532	536	9.06			
PCB-98	*	*	n	NotFnd	0.86	*	532	536	8.37	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.86	*	532	536	8.37	Co-elute PCB 98		
PCB-95	*	*	n	NotFnd	0.83	*	532	536	8.64			
PCB-93	*	*	n	NotFnd	0.83	*	532	536	8.64			
PCB-88	*	*	n	NotFnd	0.87	*	532	536	8.27	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	0.87	*	532	536	8.27	Co-elute PCB 88		
PCB-121	*	*	n	NotFnd	1.18	*	532	536	6.10			
13C-PCB-104	1.48e+07	1.63	y	30:00	0.90	7620				76.2	2.31e+06	1.40e+06
13C-PCB-28	4.23e+07	1.04	y	26:39	1.90	10300				103	5.18e+06	4.82e+06
13C-PCB-52	2.16e+07	0.81	y	28:54	-	54.3						

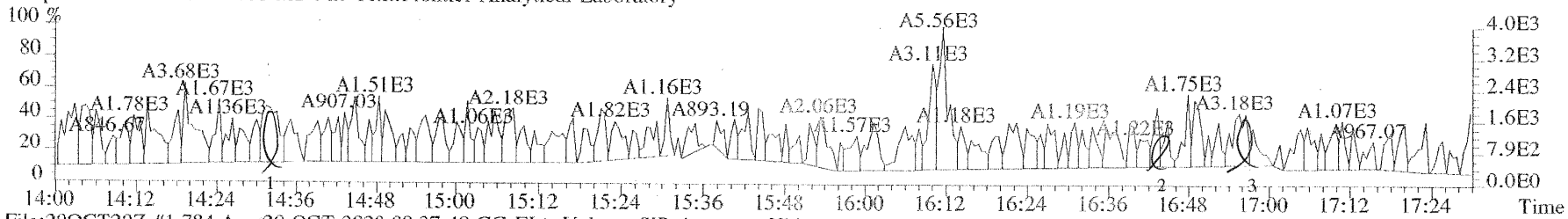
PCB-56	*	*	n	NotFnd	1.10	*	840	1050	6.69			Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.10	*	840	1050	6.69			Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.25	*	840	1050	5.89			
PCB-78	*	*	n	NotFnd	1.21	*	840	1050	6.09			
PCB-81	*	*	n	NotFnd	1.30	*	840	1050	5.78			
13C-PCB-81	2.85e+07	0.82	y	36:05	1.63	9760				97.6	2.83e+06	3.48e+06
PCB-77	*	*	n	NotFnd	1.16	*	840	1050	6.26			
13C-PCB-77	2.89e+07	0.82	y	36:37	1.71	9460				94.6	2.91e+06	3.64e+06
PCB-155	*	*	n	NotFnd	1.22	*	632	540	8.09			
PCB-150	*	*	n	NotFnd	1.20	*	632	540	8.23			
PCB-152	*	*	n	NotFnd	1.19	*	632	540	8.35			
PCB-145	*	*	n	NotFnd	1.18	*	632	540	8.41			
PCB-136	*	*	n	NotFnd	1.08	*	632	540	9.20			
PCB-148	*	*	n	NotFnd	1.02	*	632	540	9.74			
PCB-154	*	*	n	NotFnd	1.05	*	632	540	9.41			
13C-PCB-155	1.34e+07	1.33	y	34:10	0.99	7590				75.9	1.70e+06	1.26e+06
13C-PCB-111	2.00e+07	1.65	y	36:15	1.27	8820				88.2	2.68e+06	1.61e+06
13C-PCB-101	1.79e+07	1.61	y	34:36	-	51.0						
PCB-84	*	*	n	NotFnd	0.70	*	710	654	8.23			Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.70	*	710	654	8.23			Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.69	*	710	654	8.43			
PCB-90	*	*	n	NotFnd	0.79	*	710	654	7.31			Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.79	*	710	654	7.31			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.92	*	710	654	6.26			
PCB-99	*	*	n	NotFnd	0.84	*	710	654	6.88			
PCB-119	*	*	n	NotFnd	1.01	*	710	654	5.72			
PCB-83	*	*	n	NotFnd	0.80	*	710	654	7.21			Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.80	*	710	654	7.21			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.97	*	710	654	5.94			
PCB-97	*	*	n	NotFnd	0.67	*	710	654	8.69			
PCB-86	*	*	n	NotFnd	0.68	*	710	654	8.47			
PCB-125	*	*	n	NotFnd	0.91	*	710	654	6.39			Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.91	*	710	654	6.39			Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.91	*	710	564	5.97			Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	0.98	*	710	654	5.90			Co-elute PCB 115
PCB-115	*	*	n	NotFnd	0.98	*	710	654	5.90			Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.87	*	710	654	6.64			Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.87	*	710	654	6.64			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.08	*	710	654	5.37			
PCB-110	*	*	n	NotFnd	0.99	*	710	654	5.83			
PCB-82	*	*	n	NotFnd	0.61	*	710	654	9.45			
PCB-124	*	*	n	NotFnd	1.06	*	1020	810	7.32			
PCB-108	*	*	n	NotFnd	1.11	*	1020	810	7.02			Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.11	*	1020	810	7.02			Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.00	*	1020	810	7.63			
13C-PCB-123	2.52e+07	1.55	y	38:16	1.29	9930				99.3	3.65e+06	2.36e+06
PCB-118	*	*	n	NotFnd	1.07	*	1020	810	7.41			Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.07	*	1020	810	7.41			Co-elute PCB 118
13C-PCB-118	2.71e+07	1.57	y	38:26	1.39	9900				99.0	3.50e+06	2.28e+06
PCB-114	*	*	n	NotFnd	1.08	*	1020	810	6.85			
13C-PCB-114	2.61e+07	1.55	y	39:04	1.37	9710				97.1	3.74e+06	2.43e+06
PCB-122	*	*	n	NotFnd	1.15	*	1020	810	6.76			
PCB-105	*	*	n	NotFnd	1.15	*	1020	810	7.07			
13C-PCB-105	2.62e+07	1.56	y	39:53	1.37	9740				97.4	3.49e+06	2.17e+06

PCB-127	*	*	n	NotFnd	1.05	*	1020	810	7.39				
PCB-126	*	*	n	NotFnd	1.07	*	1020	810	7.37				
13C-PCB-126	2.56e+07	1.55	y	42:00	1.35	9690				96.9	3.53e+06	2.26e+06	
PCB-151	*	*	n	NotFnd	0.85	*	756	610	8.89				
PCB-135	*	*	n	NotFnd	0.80	*	756	610	9.43				
PCB-144	*	*	n	NotFnd	1.06	*	756	610	7.16				
PCB-147	*	*	n	NotFnd	0.96	*	756	610	7.91				
PCB-139	*	*	n	NotFnd	0.99	*	756	610	7.67		Co-elute PCB 149		
PCB-149	*	*	n	NotFnd	0.99	*	756	610	7.67		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	0.95	*	756	610	7.95				
PCB-143	*	*	n	NotFnd	0.81	*	756	610	9.32		Co-elute PCB 134		
PCB-134	*	*	n	NotFnd	0.81	*	756	610	9.32		Co-elute PCB 143		
PCB-131	*	*	n	NotFnd	0.84	*	756	610	9.07		Co-elute PCB 133		
PCB-133	*	*	n	NotFnd	0.84	*	756	610	9.07		Co-elute PCB 131		
PCB-142	*	*	n	NotFnd	0.83	*	756	610	9.18				
PCB-165	*	*	n	NotFnd	1.04	*	756	610	7.31		Co-elute PCB 146		
PCB-146	*	*	n	NotFnd	1.04	*	756	610	7.31		Co-elute PCB 165		
PCB-161	*	*	n	NotFnd	1.00	*	756	610	7.58		Co-elute PCB 132		
PCB-132	*	*	n	NotFnd	1.00	*	756	610	7.58		Co-elute PCB 161		
PCB-153	*	*	n	NotFnd	1.17	*	756	610	6.50				
PCB-168	*	*	n	NotFnd	1.18	*	756	610	6.42				
PCB-141	*	*	n	NotFnd	0.93	*	756	610	8.17				
PCB-137	*	*	n	NotFnd	0.88	*	756	610	8.66				
PCB-130	*	*	n	NotFnd	0.87	*	756	610	8.70				
PCB-138	*	*	n	NotFnd	1.14	*	756	610	6.68		Co-elute PCB 163/164		
PCB-163	*	*	n	NotFnd	1.14	*	756	610	6.68		Co-elute PCB 138/164		
PCB-164	*	*	n	NotFnd	1.14	*	756	610	6.68		Co-elute PCB 138/163		
PCB-158	*	*	n	NotFnd	1.25	*	756	610	6.06		Co-elute PCB 160		
PCB-160	*	*	n	NotFnd	1.25	*	756	610	6.06		Co-elute PCB 158		
PCB-129	*	*	n	NotFnd	0.81	*	756	610	9.39				
PCB-166	*	*	n	NotFnd	1.22	*	756	610	6.23				
PCB-159	*	*	n	NotFnd	1.33	*	756	610	5.72				
PCB-128	*	*	n	NotFnd	1.06	*	756	610	7.14		Co-elute PCB 162		
PCB-162	*	*	n	NotFnd	1.06	*	756	610	7.14		Co-elute PCB 128		
PCB-167	*	*	n	NotFnd	1.23	*	756	610	6.12				
13C-PCB-167	1.97e+07	1.28	y	43:22	1.14	8820				88.2	2.56e+06	1.96e+06	
PCB-156	*	*	n	NotFnd	1.29	*	756	610	6.71				
13C-PCB-156	1.93e+07	1.29	y	44:35	1.12	8750				87.5	2.24e+06	1.71e+06	
PCB-157	*	*	n	NotFnd	1.24	*	756	610	6.06				
13C-PCB-157	1.99e+07	1.29	y	44:51	1.14	8830				88.3	2.56e+06	1.97e+06	
PCB-169	*	*	n	NotFnd	1.20	*	756	610	5.45				
13C-PCB-169	1.91e+07	1.30	y	46:43	1.17	8340				83.4	2.98e+06	2.23e+06	

PCB-188	*	*	n	NotFnd	1.21	*	510	536	7.16			
13C-PCB-188	1.42e+07	1.07	y	39:38	0.86	8390				83.9	1.56e+06	1.46e+06
PCB-184	*	*	n	NotFnd	1.31	*	510	536	6.19			
PCB-179	*	*	n	NotFnd	1.28	*	510	536	6.37			
PCB-176	*	*	n	NotFnd	1.26	*	510	536	6.44			
PCB-186	*	*	n	NotFnd	1.22	*	510	536	6.66			
PCB-178	*	*	n	NotFnd	0.90	*	510	536	9.06			
PCB-175	*	*	n	NotFnd	0.93	*	510	536	8.74			
PCB-187	*	*	n	NotFnd	1.02	*	510	536	7.96		Co-elute PCB 182	
PCB-182	*	*	n	NotFnd	1.02	*	510	536	7.96		Co-elute PCB 187	
PCB-183	*	*	n	NotFnd	0.99	*	510	536	8.19			
PCB-185	*	*	n	NotFnd	0.94	*	510	536	8.62			
PCB-174	*	*	n	NotFnd	0.94	*	510	536	8.70			
PCB-181	*	*	n	NotFnd	0.91	*	510	536	8.95			
PCB-177	*	*	n	NotFnd	0.84	*	510	536	9.67			
PCB-171	*	*	n	NotFnd	0.92	*	510	536	8.87			
PCB-173	*	*	n	NotFnd	0.83	*	510	536	9.85			
PCB-172	*	*	n	NotFnd	0.87	*	510	536	9.35			
PCB-192	*	*	n	NotFnd	1.14	*	510	536	7.15			
PCB-180	*	*	n	NotFnd	0.89	*	510	536	9.10			
PCB-193	*	*	n	NotFnd	1.23	*	510	536	6.60			
PCB-191	*	*	n	NotFnd	1.27	*	510	536	6.42			
PCB-170	*	*	n	NotFnd	0.89	*	510	536	9.10			
PCB-190	*	*	n	NotFnd	1.18	*	510	536	6.87			
PCB-189	*	*	n	NotFnd	1.21	*	510	536	6.17			
13C-PCB-189	1.17e+07	1.11	y	48:24	0.88	6790				67.9	1.87e+06	1.63e+06
PCB-202	*	*	n	NotFnd	1.16	*	354	510	7.61			
PCB-201	*	*	n	NotFnd	1.24	*	354	510	7.12			
PCB-204	*	*	n	NotFnd	1.26	*	354	510	7.01			
PCB-197	*	*	n	NotFnd	1.29	*	354	510	6.83			
PCB-200	*	*	n	NotFnd	1.27	*	354	510	6.96			
PCB-198	*	*	n	NotFnd	0.91	*	354	510	9.75			
PCB-199	*	*	n	NotFnd	0.95	*	354	510	9.26			
PCB-203	*	*	n	NotFnd	1.01	*	354	510	8.71		Co-elute PCB 196	
PCB-196	*	*	n	NotFnd	1.01	*	354	510	8.71		Co-elute PCB 203	
13C-PCB-202	9.98e+06	0.94	y	44:46	0.68	7520				75.2	1.17e+06	1.28e+06
13C-PCB-178	1.08e+07	1.08	y	42:16	0.70	7790				77.9	1.17e+06	1.07e+06
13C-PCB-138	1.97e+07	1.28	y	41:30	-	49.7						
PCB-195	*	*	n	NotFnd	0.85	*	899	1050	9.34			
PCB-194	*	*	n	NotFnd	0.94	*	899	1050	8.48			
PCB-205	*	*	n	NotFnd	1.12	*	899	1050	7.10			
13C-PCB-205	1.95e+07	0.91	y	50:03	1.22	8950				89.5	2.96e+06	3.16e+06
PCB-208	*	*	n	NotFnd	1.11	*	808	804	6.98			
13C-PCB-208	1.56e+07	0.83	y	49:07	0.98	8870				88.7	2.35e+06	2.88e+06
PCB-207	*	*	n	NotFnd	1.26	*	808	804	7.30			
PCB-206	*	*	n	NotFnd	1.16	*	808	804	9.74			
13C-PCB-206	1.12e+07	0.82	y	51:14	0.75	8390				83.9	1.59e+06	1.98e+06
PCB-209	*	*	n	NotFnd	1.22	*	692	412	7.04			
13C-PCB-209	1.13e+07	1.23	y	52:26	0.80	7910				79.1	1.80e+06	1.42e+06
13C-PCB-194	1.78e+07	0.92	y	49:48	-	42.8						

Analyst: _____ Date: 10/28/20

File:20OCT20Z #1-784 Acq:20-OCT-2020 08:37:49 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:05481-001-0001-MB File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-784 Acq:20-OCT-2020 08:37:49 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
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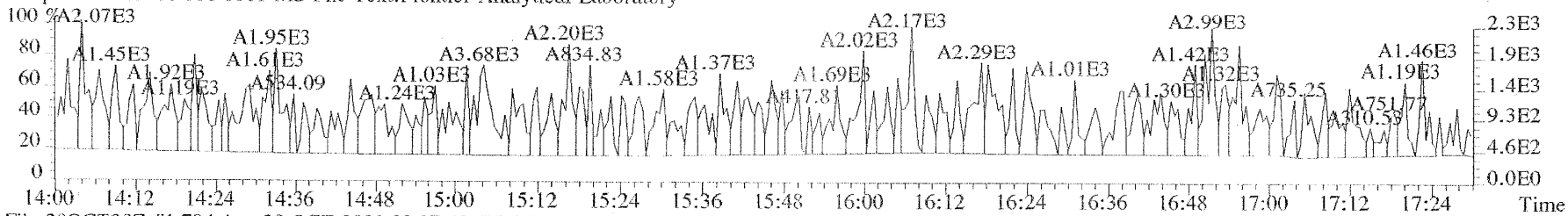
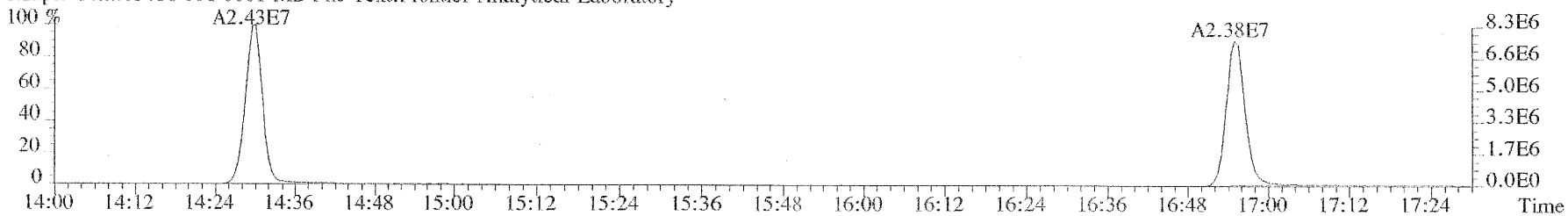
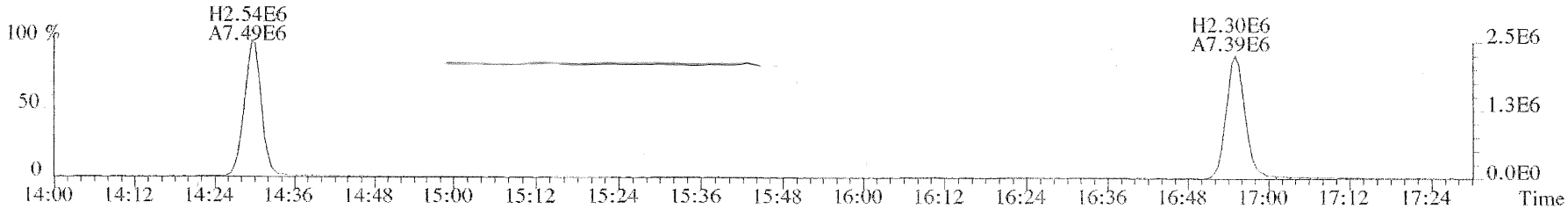


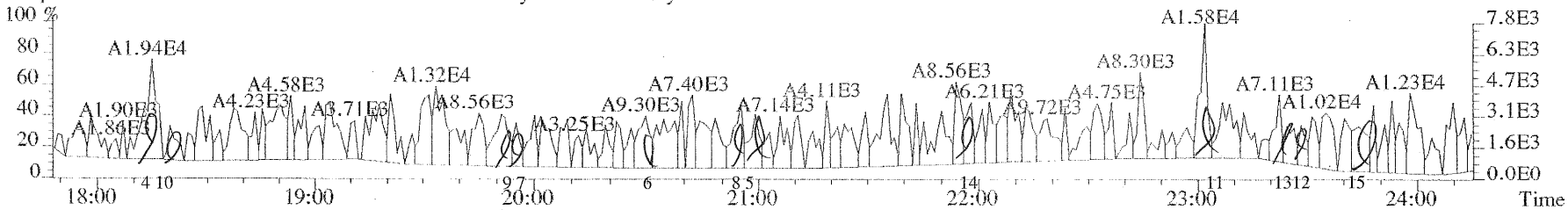
File:20OCT20Z #1-784 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



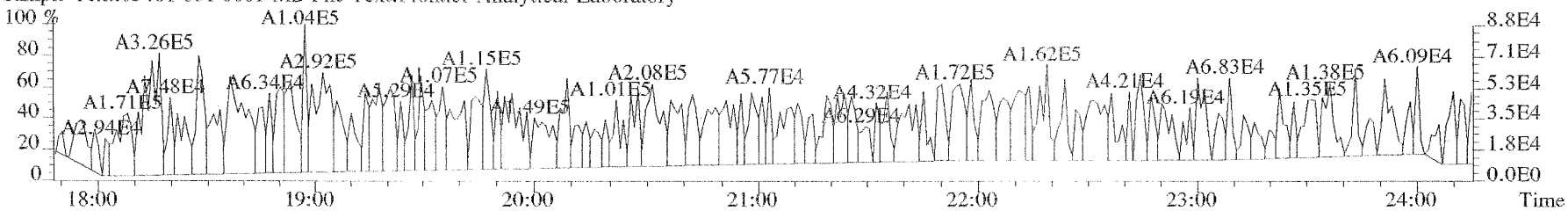
File:20OCT20Z #1-784 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



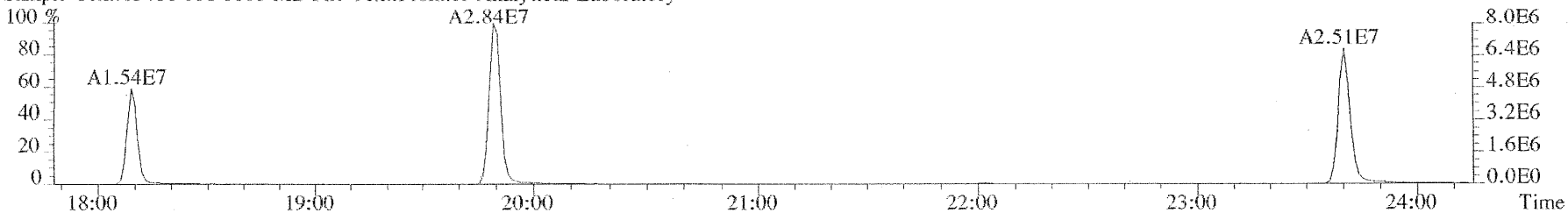
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



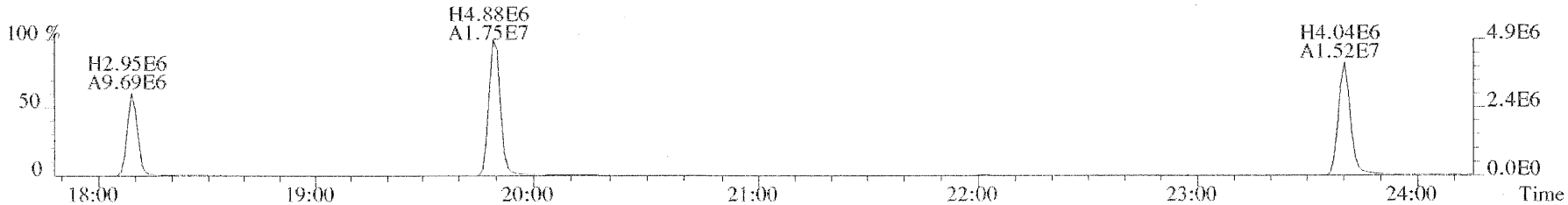
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



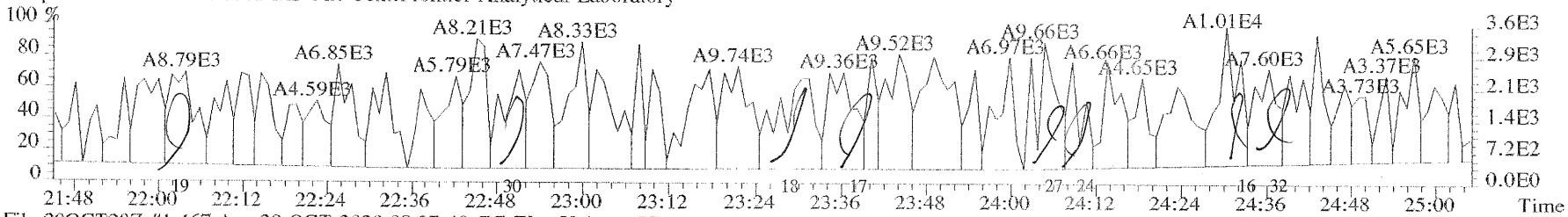
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



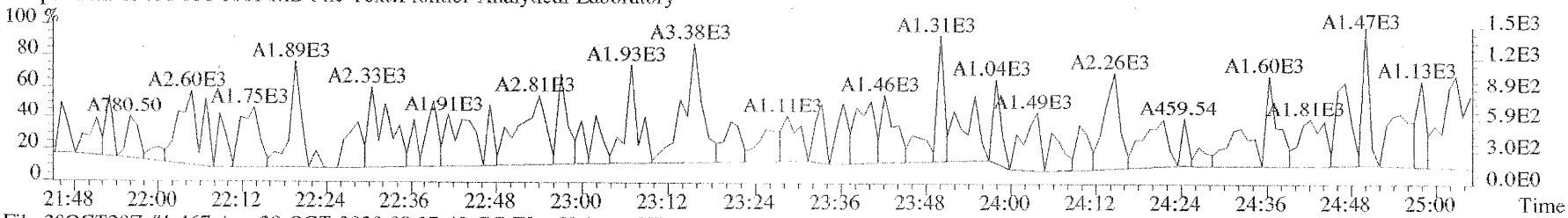
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



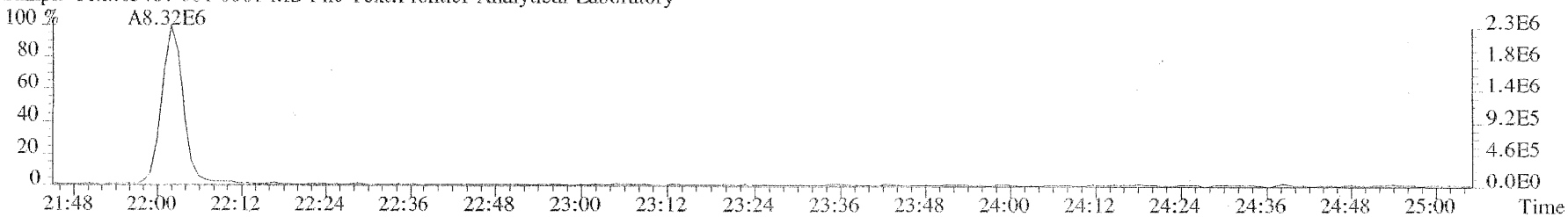
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



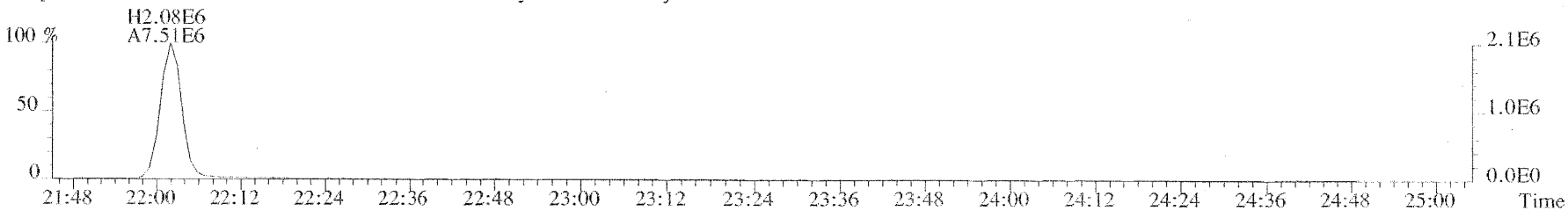
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



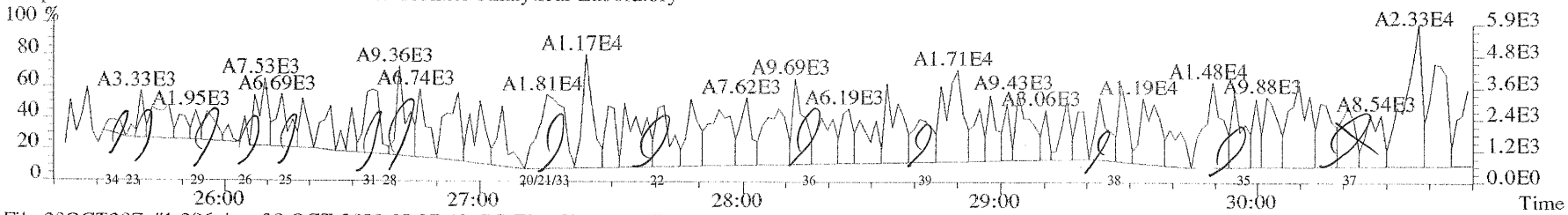
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



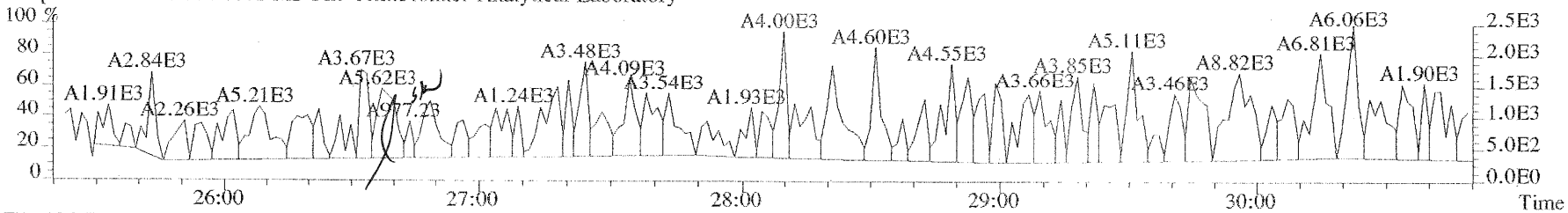
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



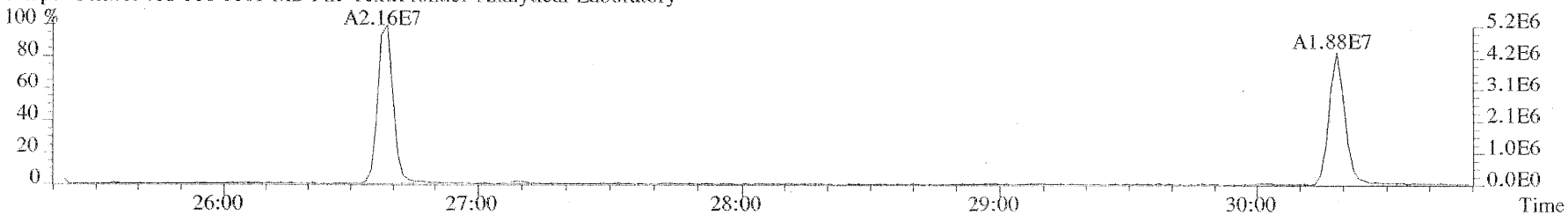
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



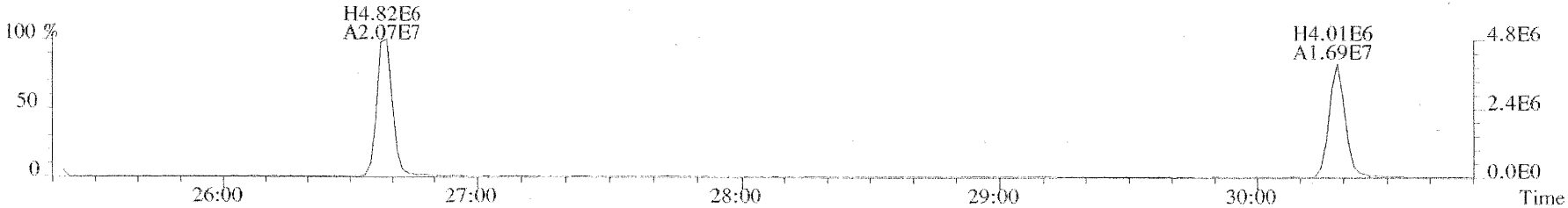
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



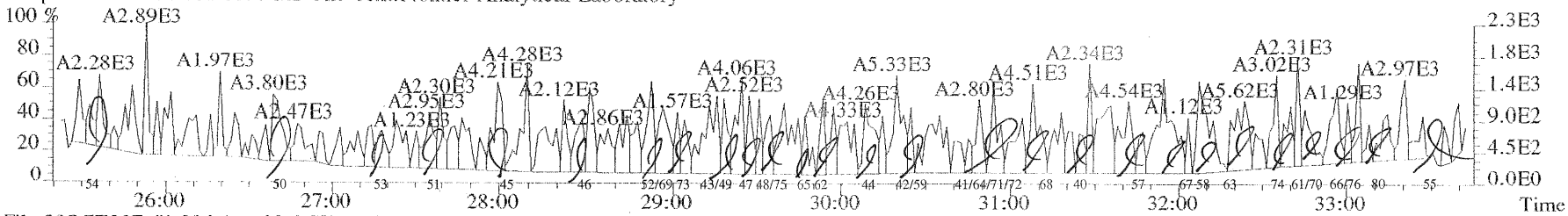
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



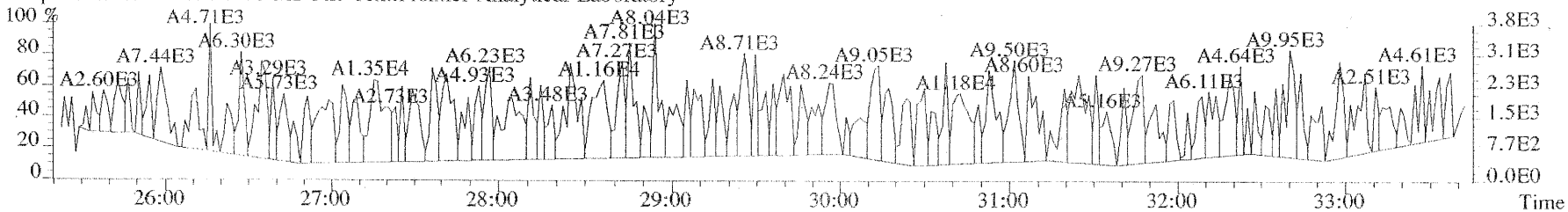
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



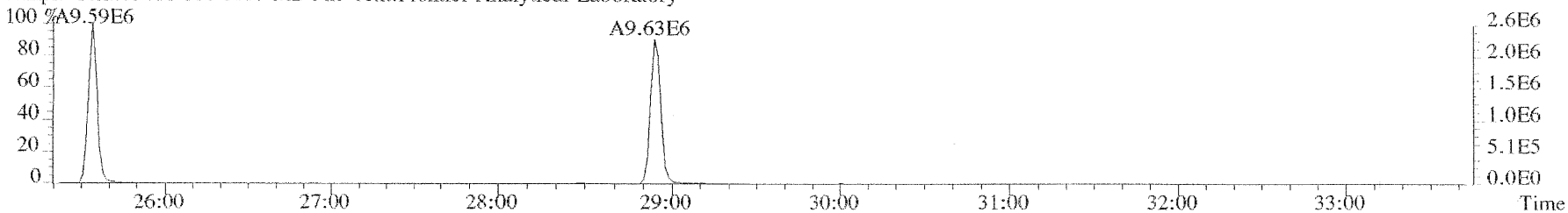
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



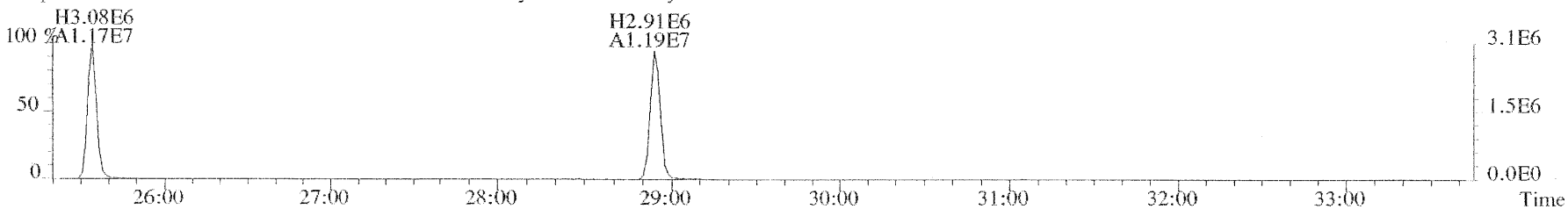
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



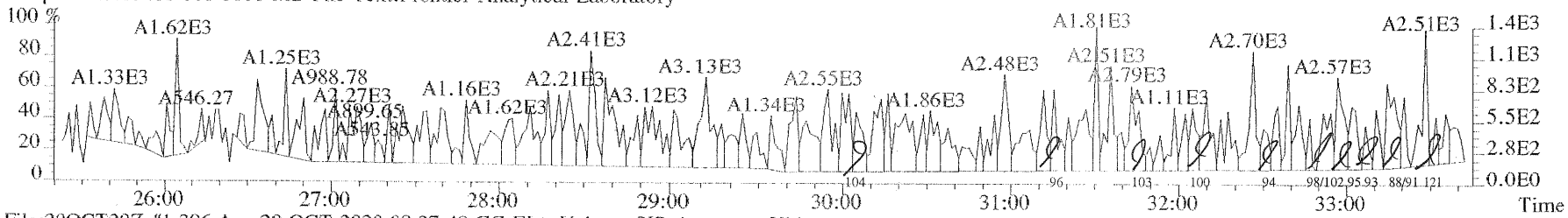
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 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:05481-001-0001-MB File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 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:05481-001-0001-MB File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
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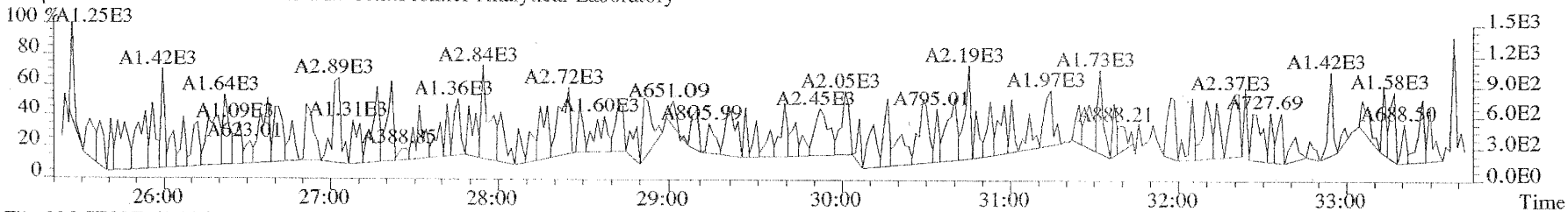
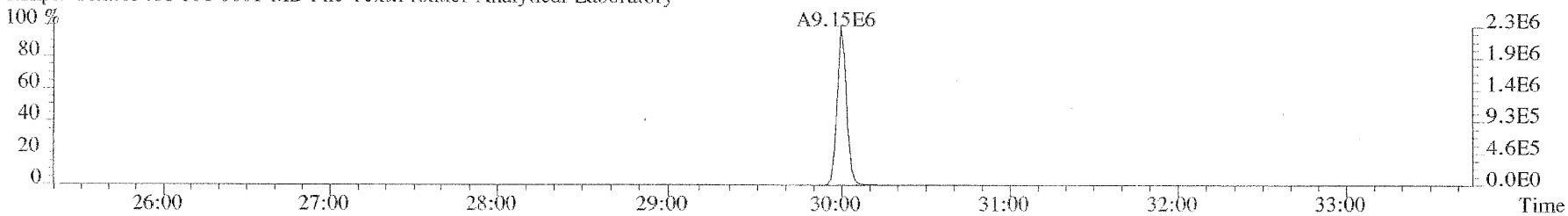
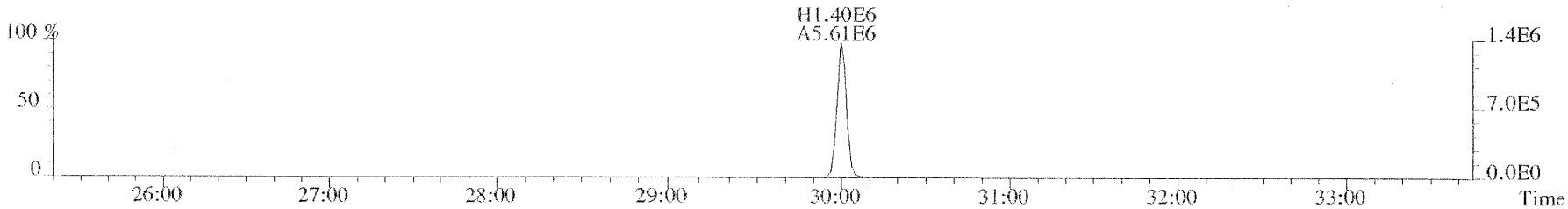
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 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:05481-001-0001-MB File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 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:05481-001-0001-MB File Text:Frontier Analytical Laboratory



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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
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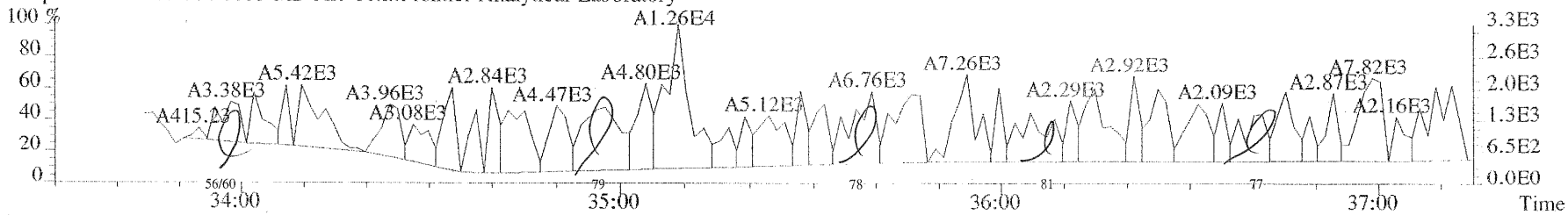

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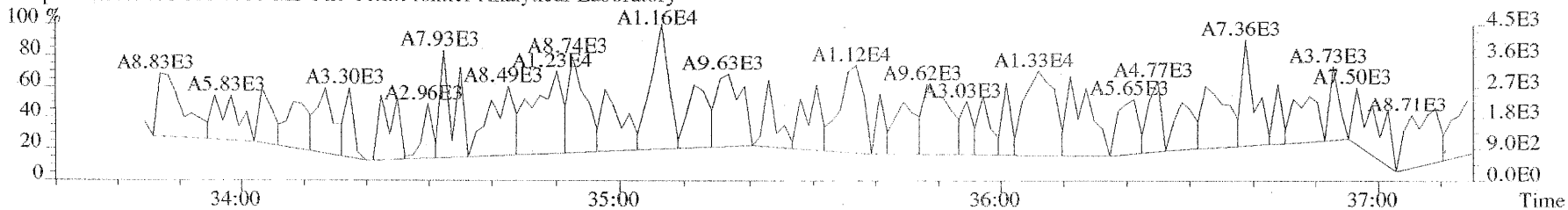
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 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
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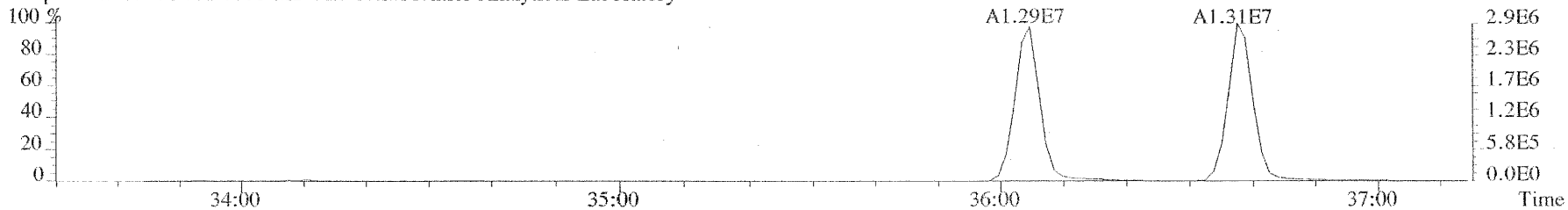
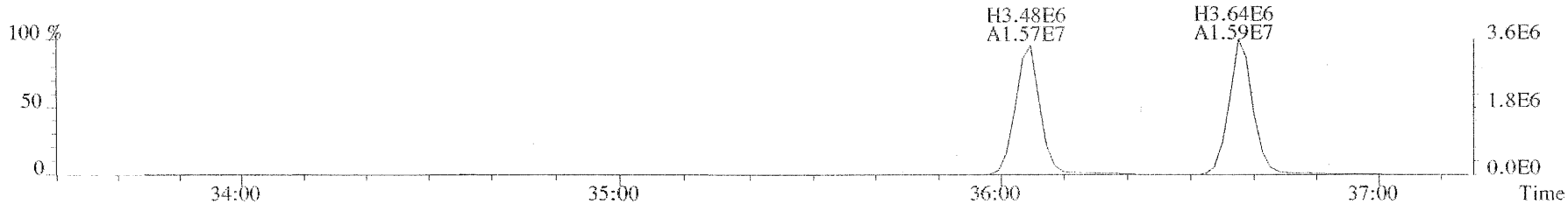
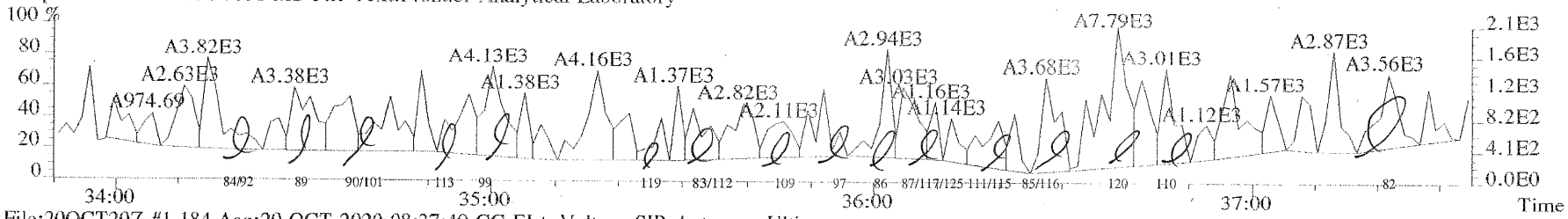


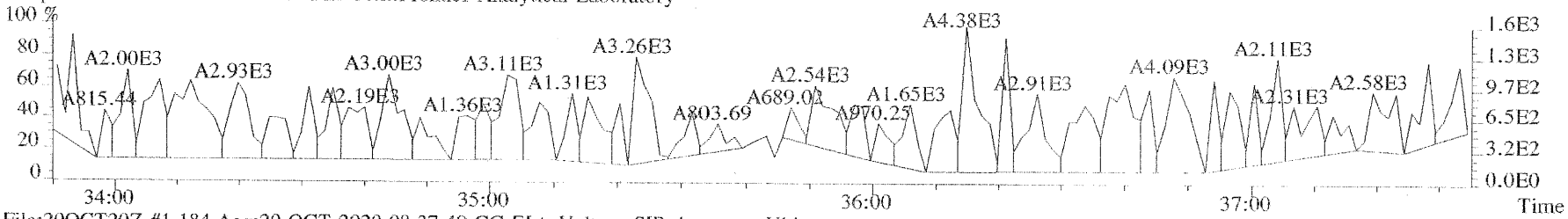
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



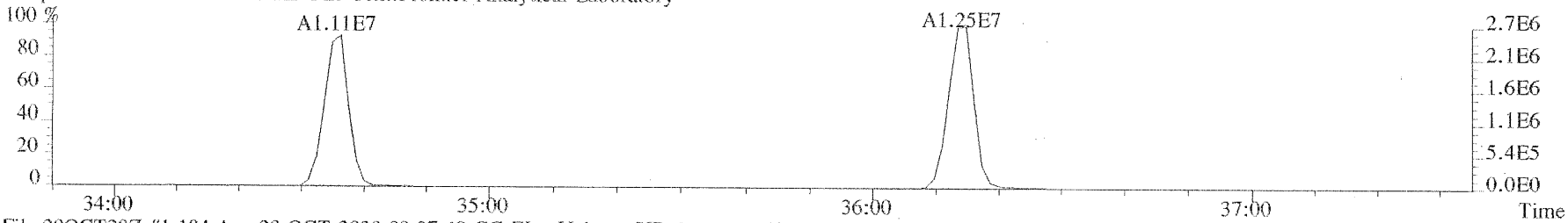
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



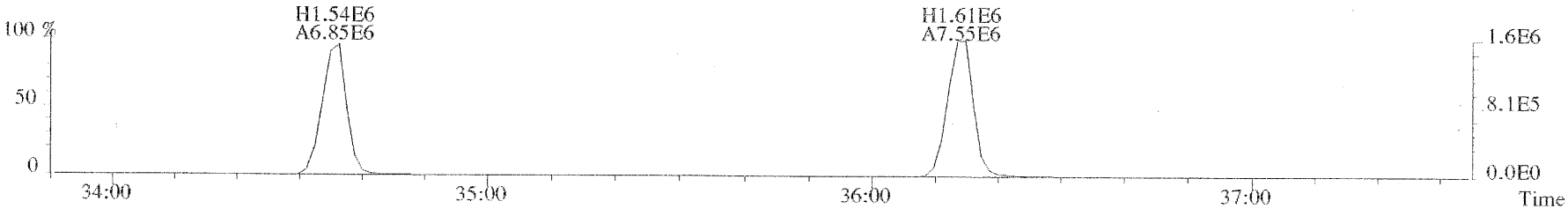
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



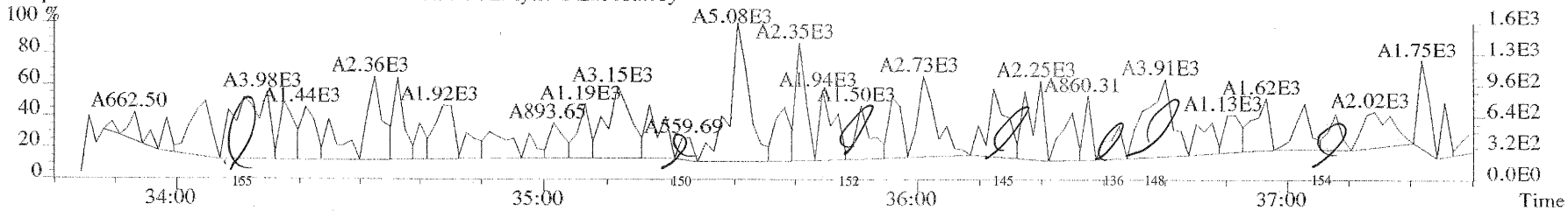
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



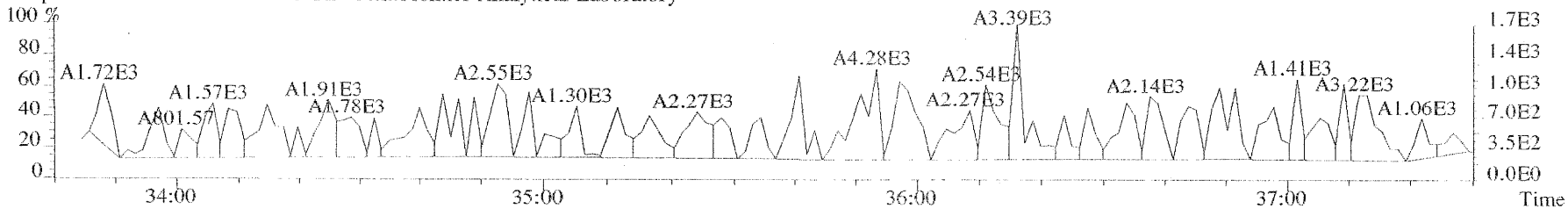
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



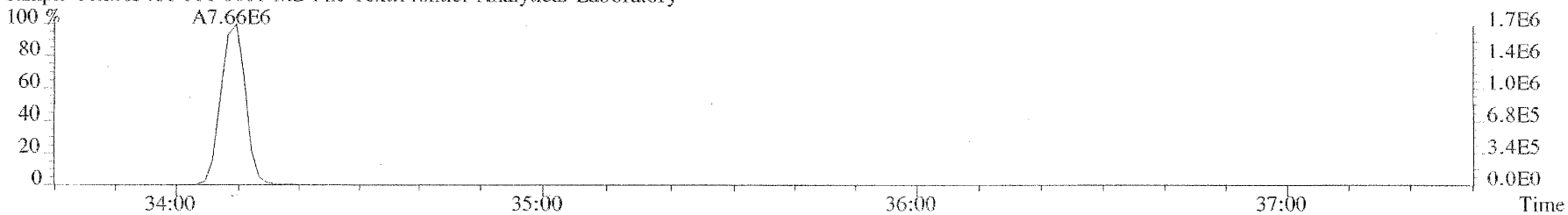
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



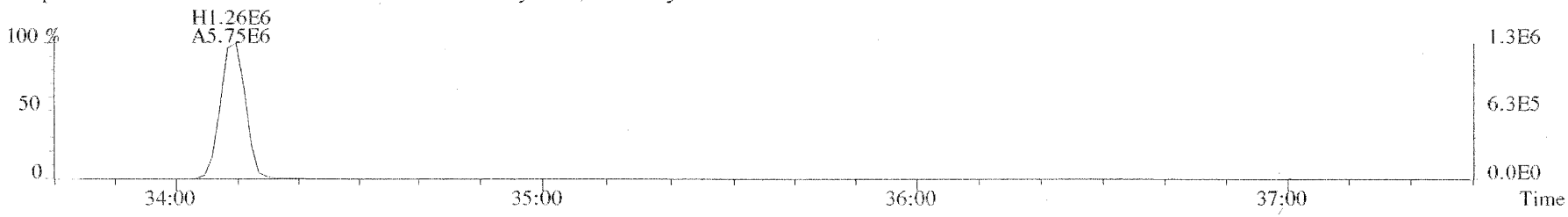
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



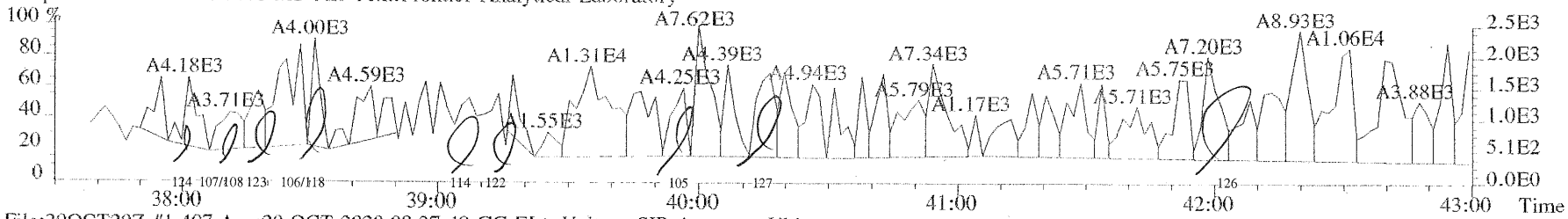
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



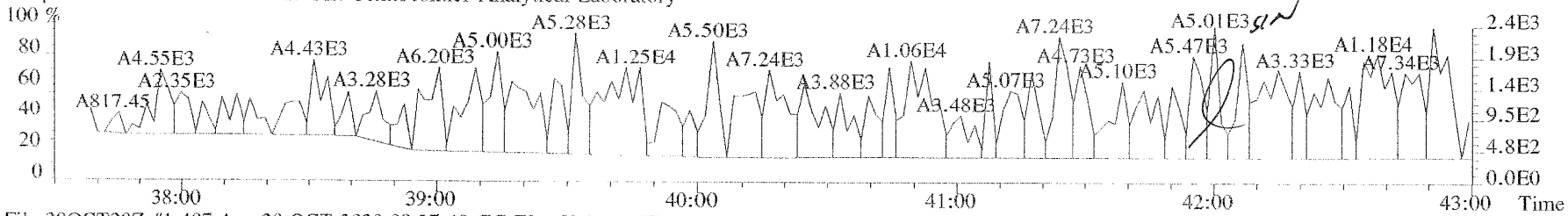
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 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:05481-001-0001-MB File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 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:05481-001-0001-MB File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 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
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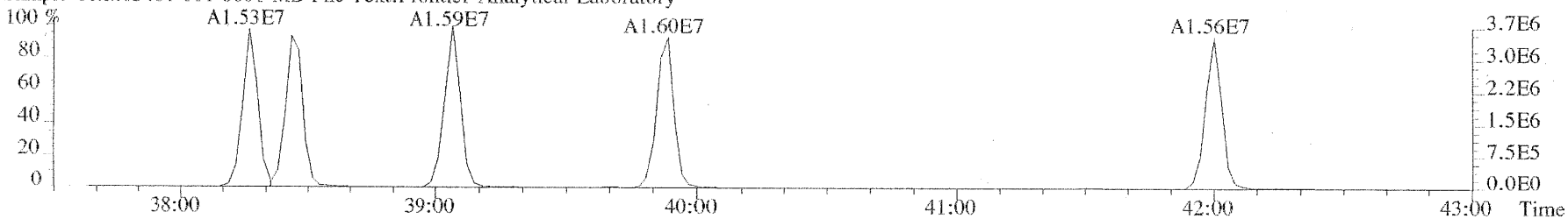

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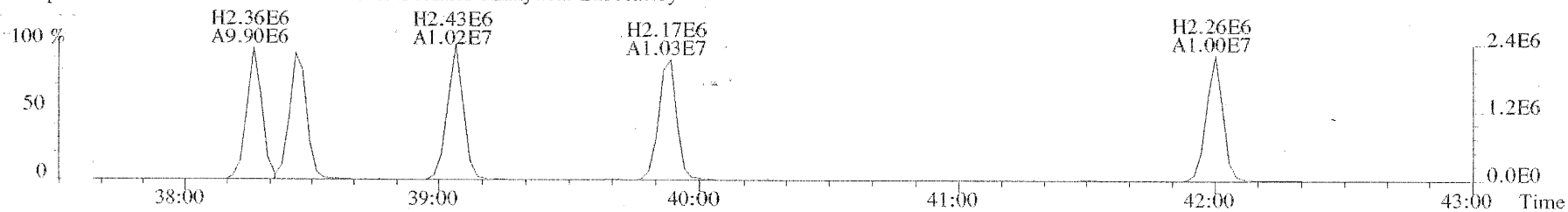
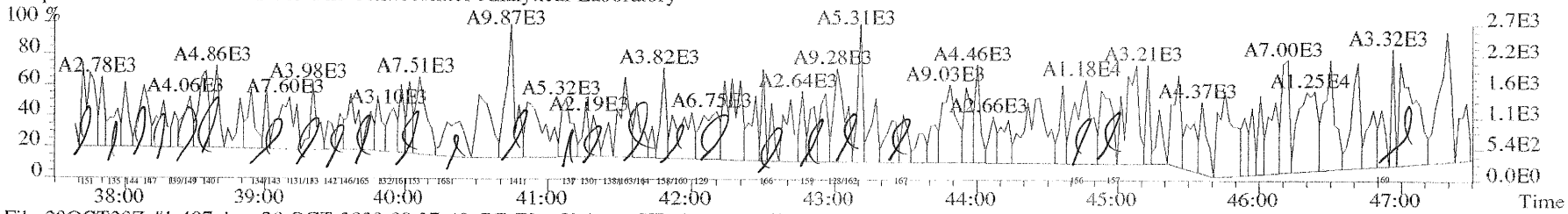
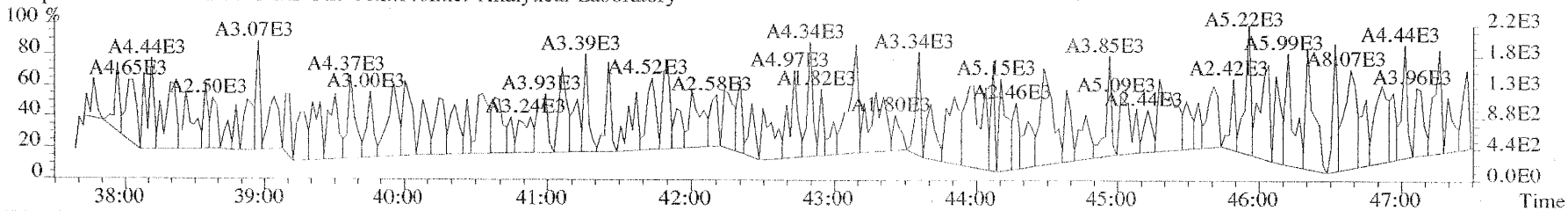
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



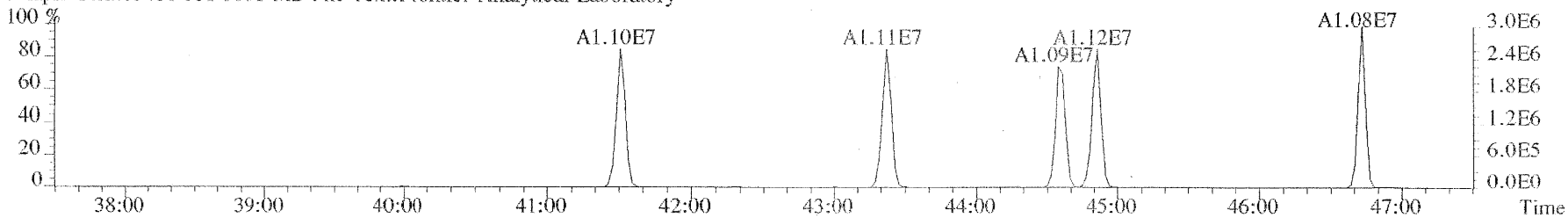
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 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:05481-001-0001-MB File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 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:05481-001-0001-MB File Text:Frontier Analytical Laboratory



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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
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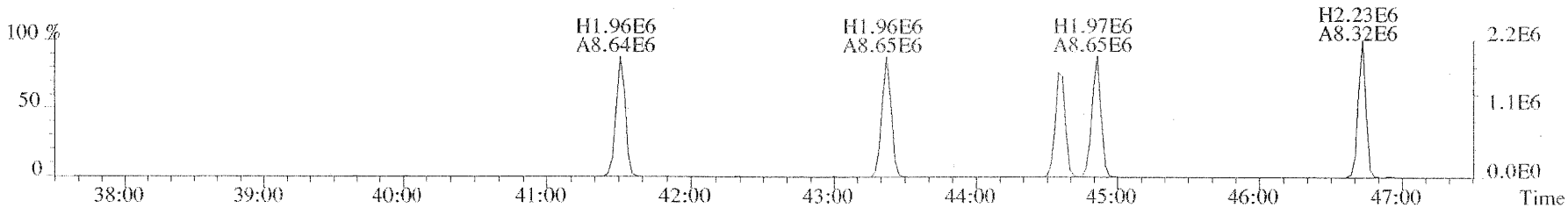

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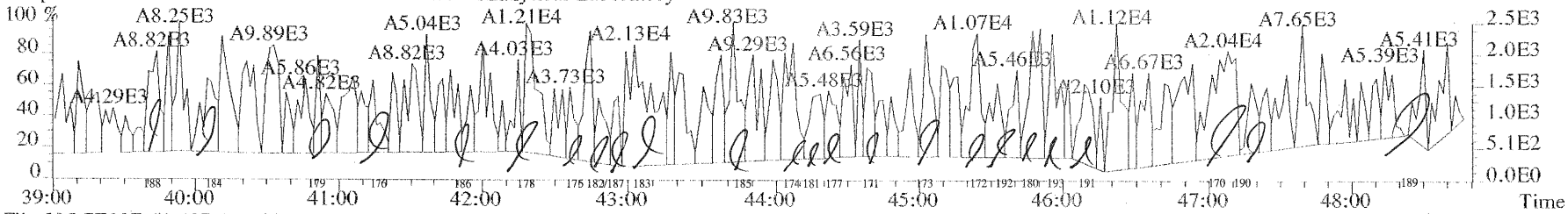
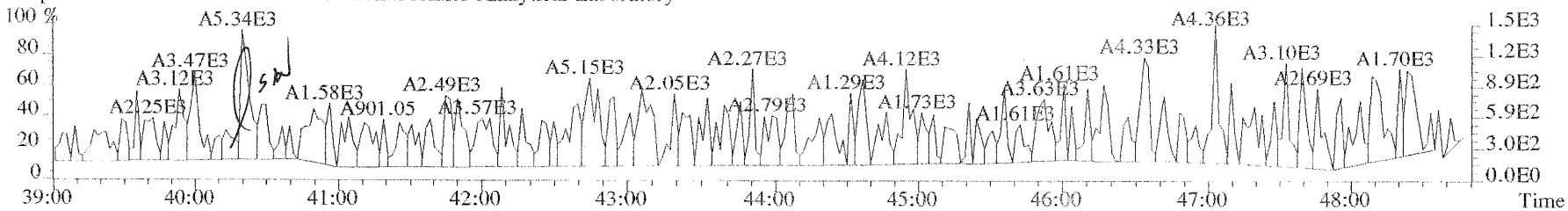
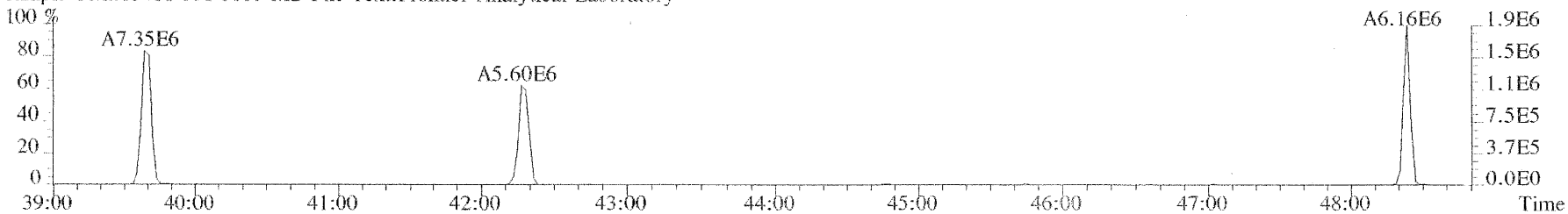
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



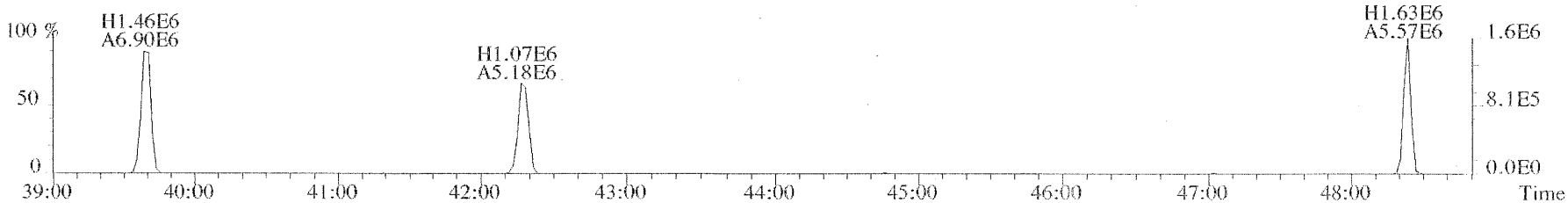
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



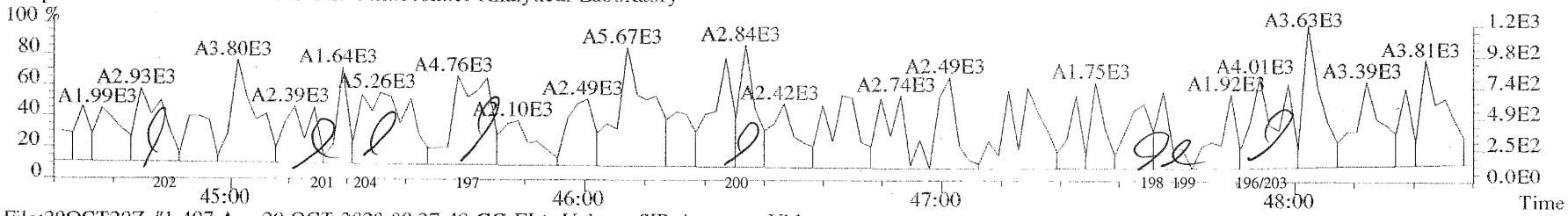
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



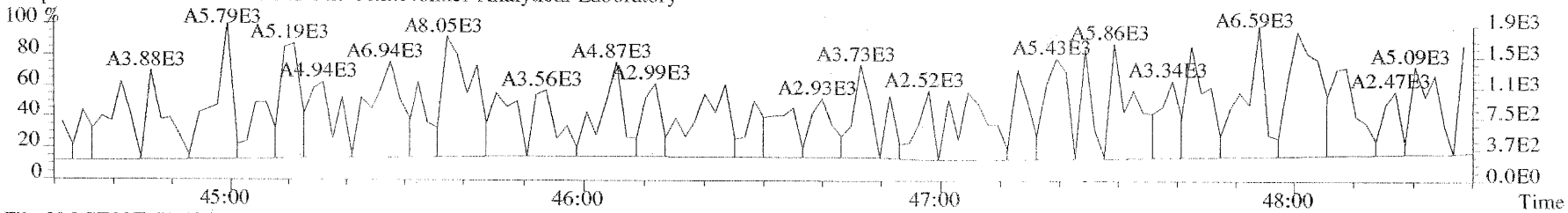
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



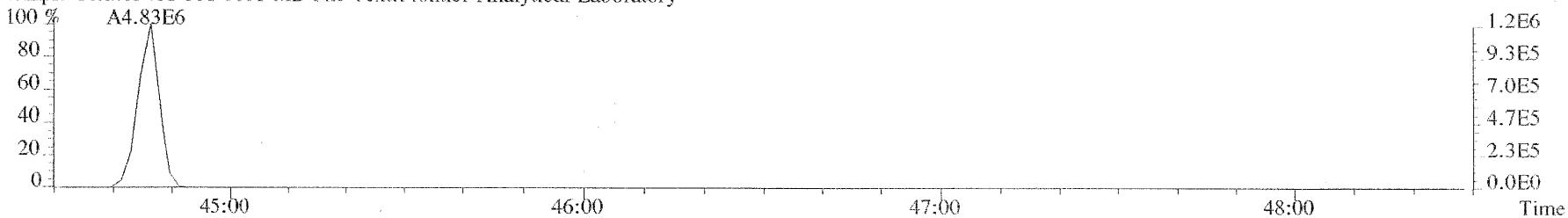
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



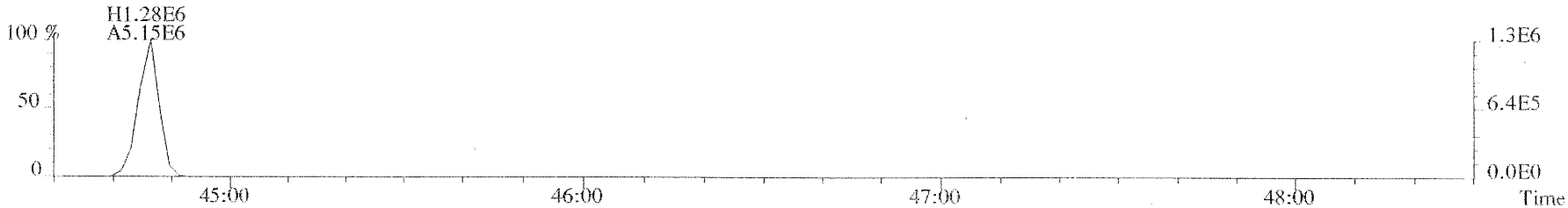
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



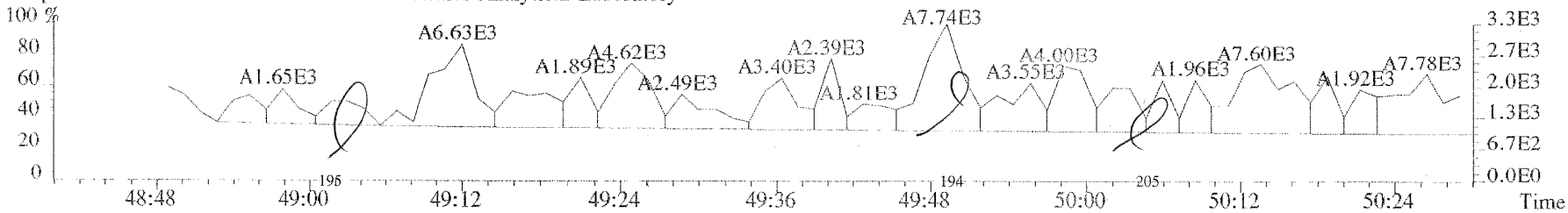
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



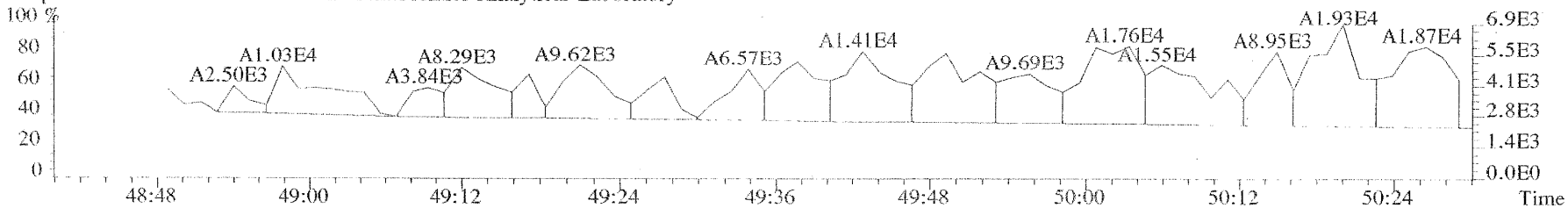
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



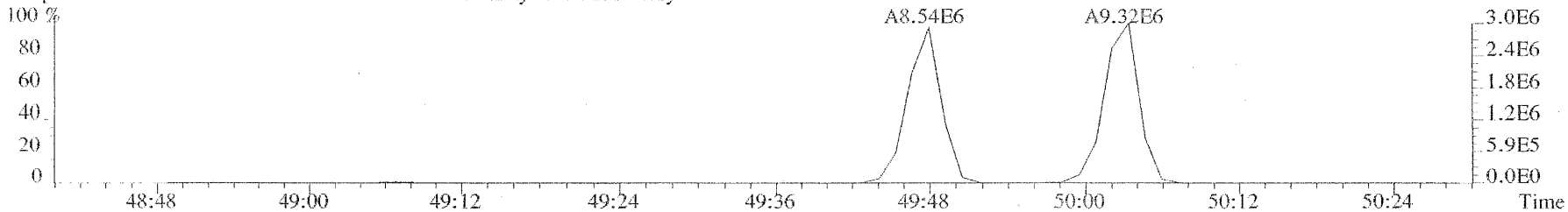
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



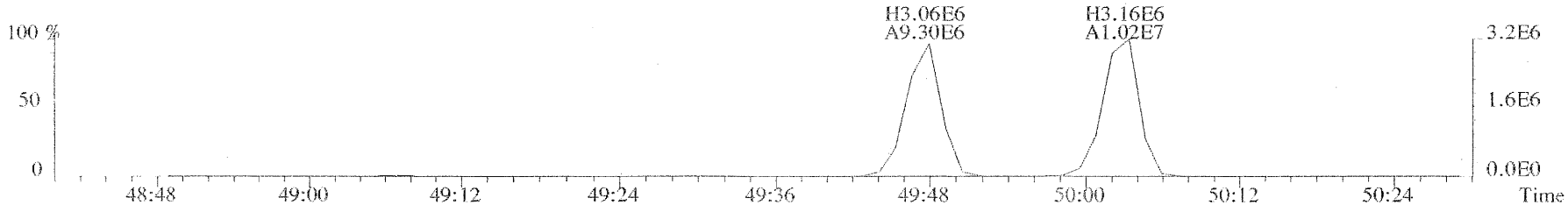
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



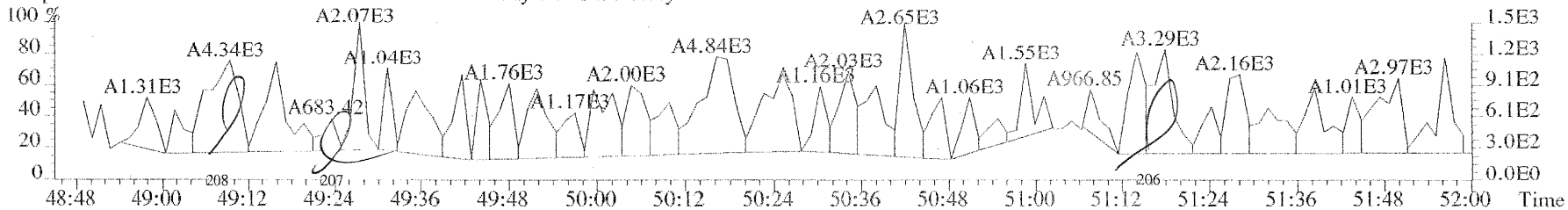
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



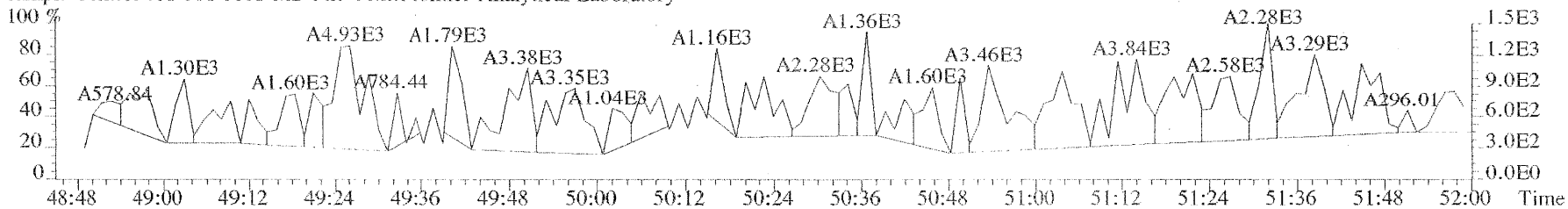
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



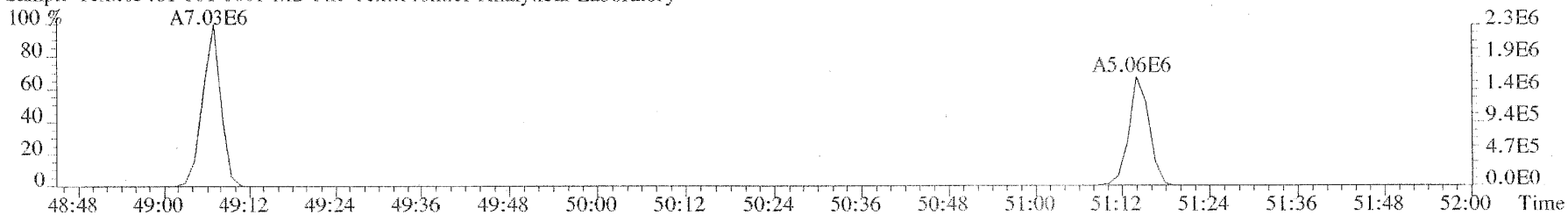
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



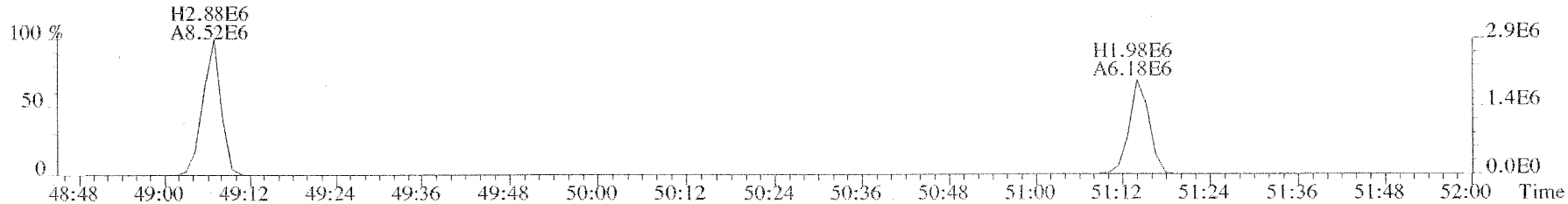
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



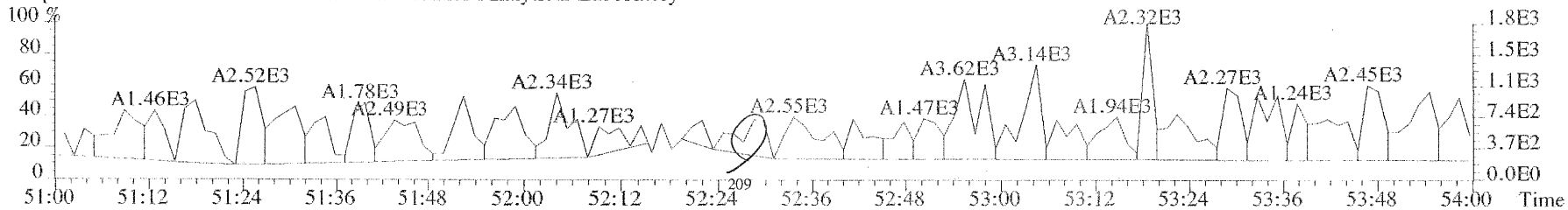
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



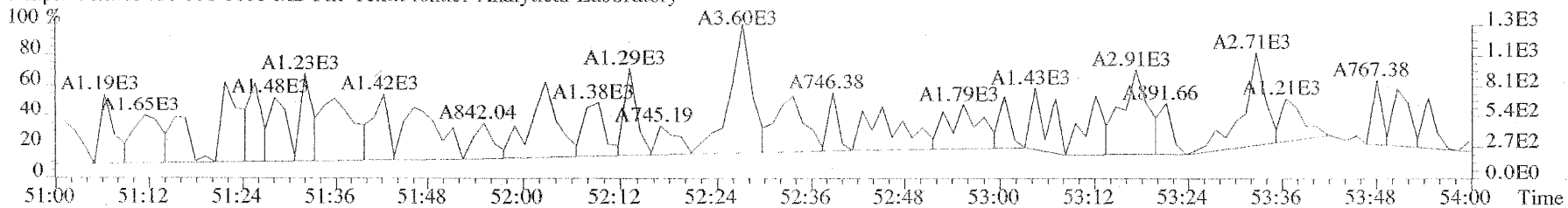
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



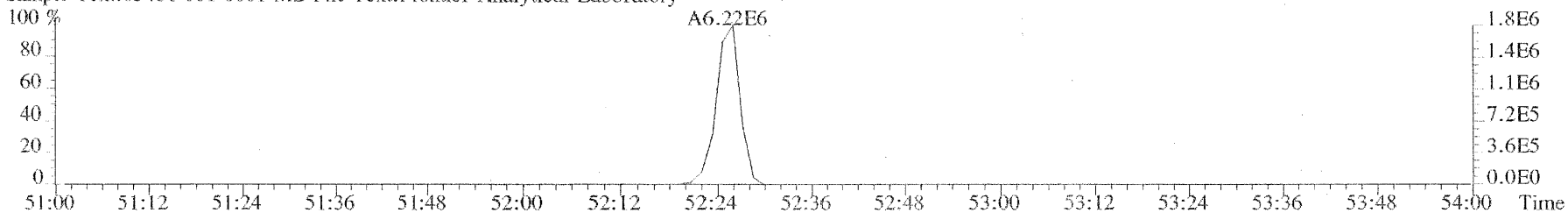
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



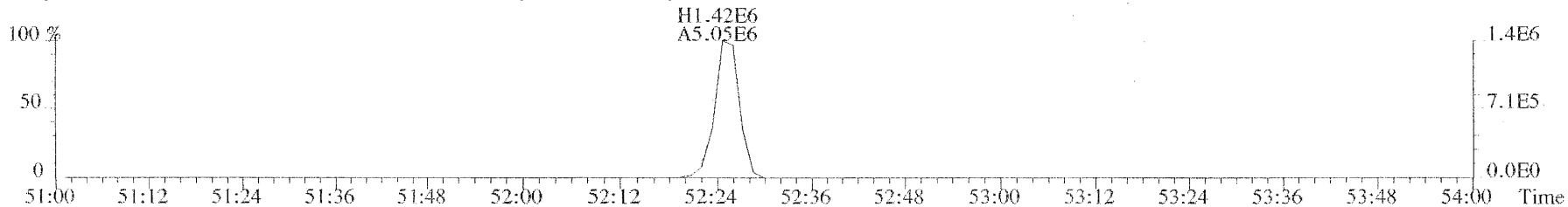
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-MB File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 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:05481-001-0001-MB File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 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:05481-001-0001-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: 05481-001-0001-OPR

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 20OCT20Z Sam:2

Ext. Date: 10/13/20 Shift: Day Analysis Date: 20-OCT-20 09:37:51

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	50.1	30.0 - 67.5
PCB-3	50	50.2	30.0 - 67.5
PCB-4	50	53.9	30.0 - 67.5
PCB-15	50	49.7	30.0 - 67.5
PCB-19	50	50.4	30.0 - 67.5
PCB-37	50	48.8	30.0 - 67.5
PCB-54	50	51.3	30.0 - 67.5
PCB-77	50	51.6	30.0 - 67.5
PCB-81	50	47.1	30.0 - 67.5
PCB-104	50	51.0	30.0 - 67.5
PCB-105	50	48.7	30.0 - 67.5
PCB-114	50	49.3	30.0 - 67.5
PCB-118	50	52.0	30.0 - 67.5
PCB-123	50	54.2	30.0 - 67.5
PCB-126	50	50.3	30.0 - 67.5
PCB-155	50	51.0	30.0 - 67.5
PCB-156	50	45.5	30.0 - 67.5
PCB-157	50	46.0	30.0 - 67.5
PCB-167	50	48.0	30.0 - 67.5
PCB-169	50	49.3	30.0 - 67.5
PCB-188	50	49.4	30.0 - 67.5
PCB-189	50	50.3	30.0 - 67.5
PCB-202	50	51.6	30.0 - 67.5
PCB-205	50	49.8	30.0 - 67.5
PCB-206	50	50.3	30.0 - 67.5
PCB-208	50	49.1	30.0 - 67.5
PCB-209	50	51.1	30.0 - 67.5

Analyst: _____ Date: 10/20/20

Frontier Analytical Laboratory

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

Lab Name: Frontier Analytical Laboratory FAL ID: 05481-001-0001-OPR

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 20OCT20Z Sam:2

Ext. Date: 10/13/20 Shift: Day Analysis Date: 20-OCT-20 09:37:51

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	84.1	15.0 - 145
13C-PCB-3	100	87.7	15.0 - 145
13C-PCB-4	100	87.8	15.0 - 145
13C-PCB-15	100	90.8	15.0 - 145
13C-PCB-19	100	86.8	15.0 - 145
13C-PCB-37	100	102	15.0 - 145
13C-PCB-54	100	86.6	15.0 - 145
13C-PCB-77	100	95.2	40.0 - 145
13C-PCB-81	100	97.7	40.0 - 145
13C-PCB-104	100	81.7	40.0 - 145
13C-PCB-105	100	95.7	40.0 - 145
13C-PCB-114	100	99.3	40.0 - 145
13C-PCB-118	100	104	40.0 - 145
13C-PCB-123	100	102	40.0 - 145
13C-PCB-126	100	97.2	40.0 - 145
13C-PCB-155	100	79.6	40.0 - 145
13C-PCB-156	100	92.2	40.0 - 145
13C-PCB-157	100	88.6	40.0 - 145
13C-PCB-167	100	90.4	40.0 - 145
13C-PCB-169	100	83.2	40.0 - 145
13C-PCB-188	100	91.3	40.0 - 145
13C-PCB-189	100	72.2	40.0 - 145
13C-PCB-202	100	82.7	40.0 - 145
13C-PCB-205	100	92.9	40.0 - 145
13C-PCB-206	100	88.3	40.0 - 145
13C-PCB-208	100	90.7	40.0 - 145
13C-PCB-209	100	82.7	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	97.9	15.0 - 145
13C-PCB-111	100	87.5	40.0 - 145
13C-PCB-178	100	77.9	40.0 - 145

Analyst: _____ Date: 10/20/20

FAL ID: 05481-001-0001-OPR Filename: 20OCT20Z Sam:2 Acquired: 20-OCT-20 09:37:51 ICal: DAILY209FAL4-10-20-20 1 of 2
Client ID: OPR ConCal: ST102020Z1 EndCal: ST102020Z2
Results: GC Column: DB1MS Amount: 1.000

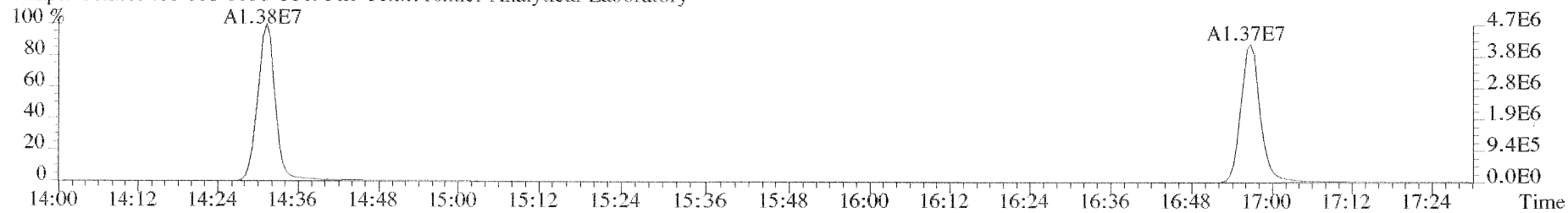
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	1.82e+07	3.16 y	14:31	1.32	50.1		2.50	-	-	*	
13C-PCB-1	2.75e+07	3.26 y	14:30	0.87	84.1		2.50				84.1
PCB-3	1.80e+07	3.15 y	16:57	1.32	50.2		2.50	-	-	*	
13C-PCB-3	2.73e+07	3.24 y	16:56	0.82	87.7		2.50				87.7
PCB-4	1.23e+07	1.41 y	18:12	1.06	53.9		2.50	-	-	*	
13C-PCB-4	2.16e+07	1.60 y	18:10	0.65	87.8		2.50				87.8
PCB-15	1.94e+07	1.46 y	23:42	1.12	49.7		2.50	-	-	*	
13C-PCB-15	3.48e+07	1.59 y	23:41	1.02	90.8		2.50				90.8
PCB-19	8.78e+06	1.09 y	22:03	1.27	50.4		2.50	-	-	*	
13C-PCB-19	1.37e+07	1.12 y	22:02	0.42	86.8		2.50				86.8
13C-PCB-9	3.77e+07	1.60 y	19:50	-	51.6		2.50				
PCB-37	1.70e+07	1.02 y	30:19	1.14	48.8		2.50	-	-	*	
13C-PCB-37	3.07e+07	1.10 y	30:18	1.64	102		2.50				102
PCB-54	1.25e+07	0.80 y	25:36	1.36	51.3		2.50	-	-	*	
13C-PCB-54	1.79e+07	0.84 y	25:35	1.13	86.6		2.50				86.6
PCB-104	8.08e+06	1.59 y	30:02	1.18	51.0		2.50	-	-	*	
13C-PCB-104	1.35e+07	1.61 y	30:00	0.90	81.7		2.50				81.7
13C-PCB-28	3.42e+07	1.06 y	26:38	1.90	97.9		2.50				97.9
13C-PCB-52	1.84e+07	0.81 y	28:55	-	46.2		2.50				
PCB-81	1.48e+07	0.78 y	36:06	1.30	47.1		2.50	-	-	*	
13C-PCB-81	2.43e+07	0.81 y	36:04	1.63	97.7		2.50				97.7
PCB-77	1.47e+07	0.77 y	36:38	1.16	51.6		2.50	-	-	*	
13C-PCB-77	2.48e+07	0.84 y	36:38	1.71	95.2		2.50				95.2
PCB-155	7.46e+06	1.32 y	34:10	1.22	51.0		2.50	-	-	*	
13C-PCB-155	1.19e+07	1.33 y	34:09	0.99	79.6		2.50				79.6
13C-PCB-111	1.69e+07	1.63 y	36:13	1.27	87.5		2.50				87.5
13C-PCB-101	1.52e+07	1.65 y	34:36	-	43.4		2.50				
PCB-123	1.13e+07	1.51 y	38:17	1.00	54.2		2.50	-	-	*	
13C-PCB-123	2.10e+07	1.52 y	38:16	1.29	102		2.50				102
PCB-118	1.28e+07	1.50 y	38:27	1.07	52.0		2.50	-	-	*	
13C-PCB-118	2.31e+07	1.60 y	38:26	1.39	104		2.50				104
PCB-114	1.16e+07	1.50 y	39:05	1.08	49.3		2.50	-	-	*	
13C-PCB-114	2.17e+07	1.56 y	39:04	1.37	99.3		2.50				99.3
PCB-105	1.17e+07	1.53 y	39:53	1.15	48.7		2.50	-	-	*	
13C-PCB-105	2.10e+07	1.58 y	39:53	1.37	95.7		2.50				95.7
PCB-126	1.13e+07	1.50 y	42:01	1.07	50.3		2.50	-	-	*	
13C-PCB-126	2.09e+07	1.57 y	41:60	1.35	97.2		2.50				97.2
PCB-167	9.75e+06	1.27 y	43:24	1.23	48.0		2.50	-	-	*	
13C-PCB-167	1.65e+07	1.30 y	43:22	1.14	90.4		2.50				90.4
PCB-156	9.71e+06	1.28 y	44:36	1.29	45.5		2.50	-	-	*	
13C-PCB-156	1.66e+07	1.31 y	44:34	1.12	92.2		2.50				92.2
PCB-157	9.27e+06	1.28 y	44:51	1.24	46.0		2.50	-	-	*	
13C-PCB-157	1.62e+07	1.30 y	44:51	1.14	88.6		2.50				88.6
PCB-169	9.23e+06	1.27 y	46:43	1.20	49.3		2.50	-	-	*	
13C-PCB-169	1.55e+07	1.30 y	46:43	1.17	83.2		2.50				83.2
PCB-188	7.54e+06	1.08 y	39:40	1.21	49.4		2.50	-	-	*	
13C-PCB-188	1.26e+07	1.07 y	39:40	0.86	91.3		2.50				91.3
PCB-189	6.19e+06	1.09 y	48:23	1.21	50.3		2.50	-	-	*	
13C-PCB-189	1.01e+07	1.08 y	48:23	0.88	72.2		2.50				72.2
PCB-202	5.35e+06	0.92 y	44:48	1.16	51.6		2.50	-	-	*	
13C-PCB-202	8.93e+06	0.95 y	44:46	0.68	82.7		2.50				82.7
13C-PCB-178	8.76e+06	1.09 y	42:18	0.70	77.9		2.50				77.9
13C-PCB-138	1.60e+07	1.29 y	41:30	-	40.4		2.50				

FAL ID: 05481-001-0001-OPR Filename: 20OCT20Z Sam:2 Acquired: 20-OCT-20 09:37:51 ICal: DAILY209FAL4-10-20-202 of 2
Client ID: OPR ConCal: ST102020Z1 EndCal: ST102020Z2
Results: GC Column: DB1MS Amount: 1.000

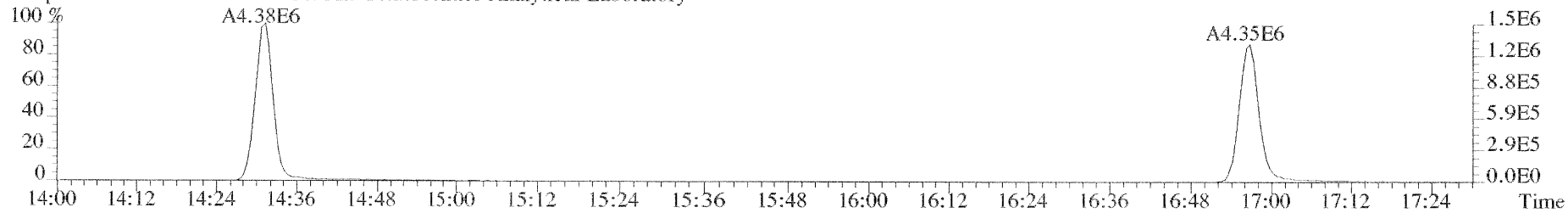
PCB-205	8.93e+06	0.87	y	50:03	1.12	49.8	2.50	-	-	*	
13C-PCB-205	1.60e+07	0.90	y	50:03	1.22	92.9	2.50				92.9
PCB-208	6.79e+06	1.35	y	49:08	1.11	49.1	2.50	-	-	*	
13C-PCB-208	1.25e+07	0.84	y	49:06	0.98	90.7	2.50				90.7
PCB-206	5.43e+06	1.35	y	51:15	1.16	50.3	2.50	-	-	*	
13C-PCB-206	9.31e+06	0.82	y	51:14	0.75	88.3	2.50				88.3
PCB-209	5.78e+06	1.19	y	52:25	1.22	51.1	2.50	-	-	*	
13C-PCB-209	9.26e+06	1.22	y	52:25	0.80	82.7	2.50				82.7
13C-PCB-194	1.40e+07	0.90	y	49:48	-	33.7	2.50				

Analyst: _____ Date: 10/20/20

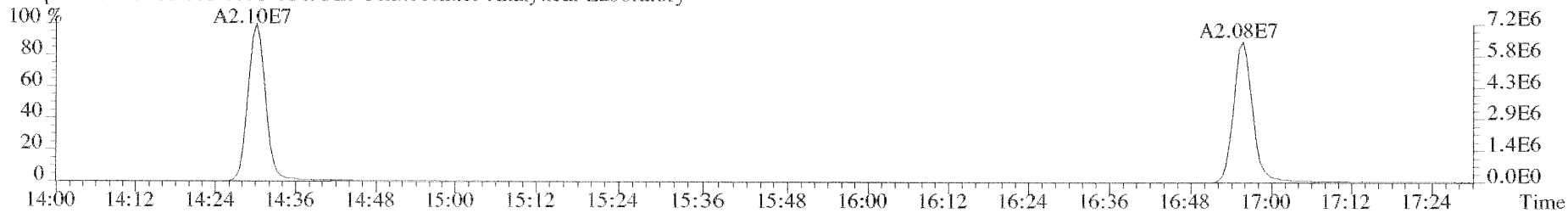
File:20OCT20Z #1-783 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



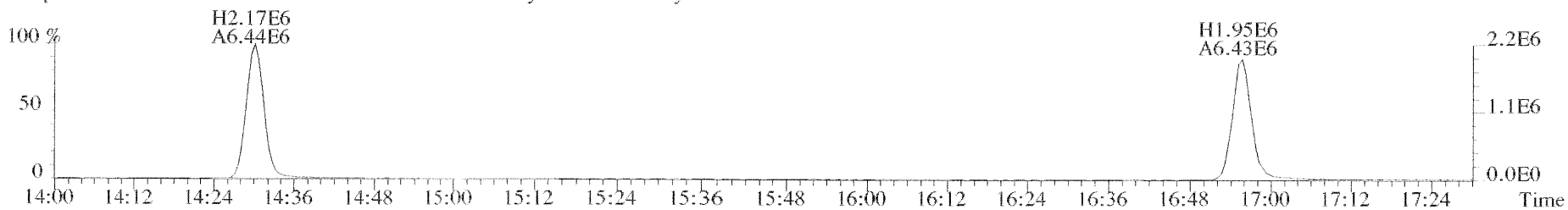
File:20OCT20Z #1-783 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



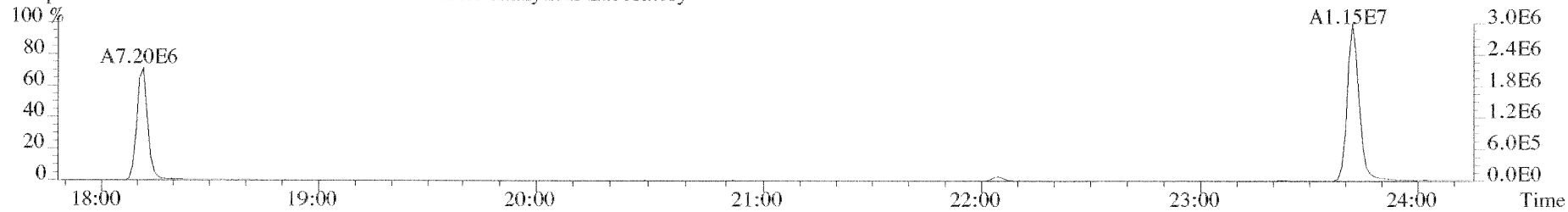
File:20OCT20Z #1-783 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



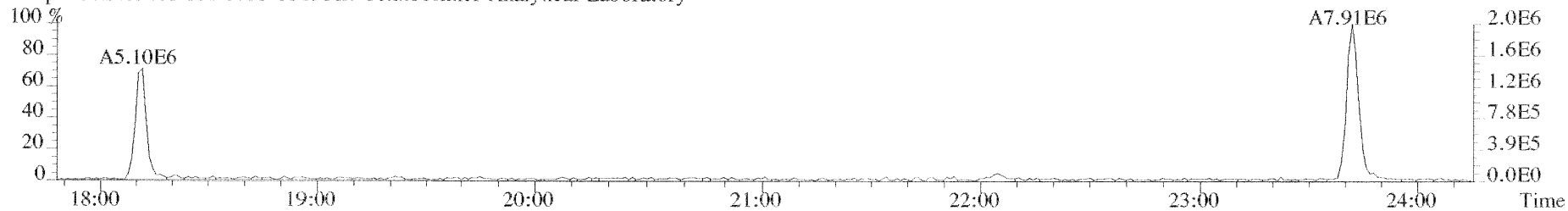
File:20OCT20Z #1-783 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



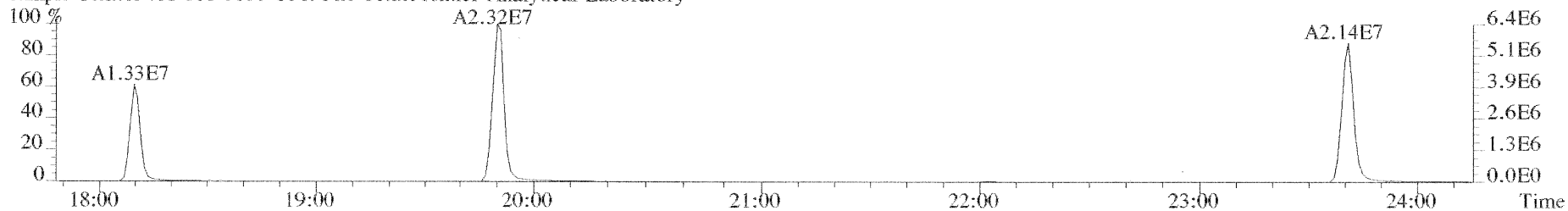
File:20OCT20Z #1-467 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



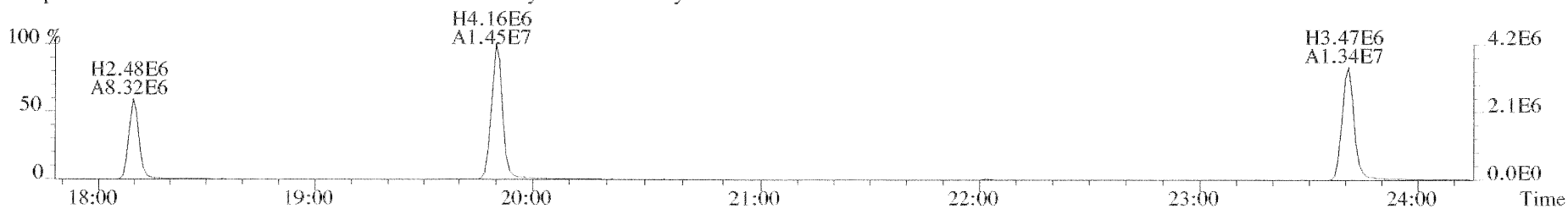
File:20OCT20Z #1-467 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



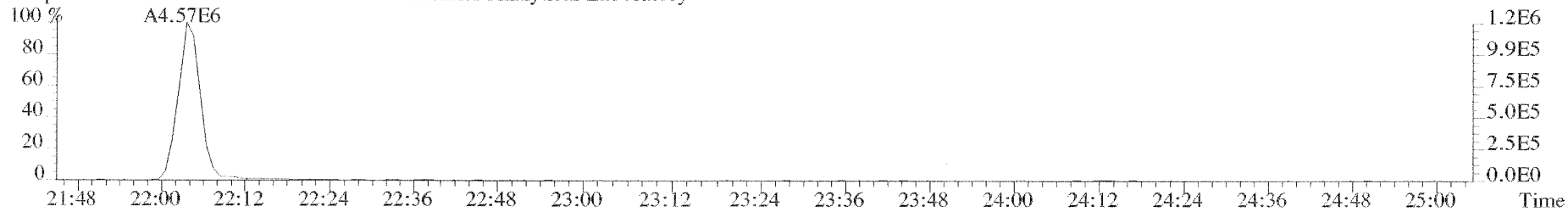
File:20OCT20Z #1-467 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



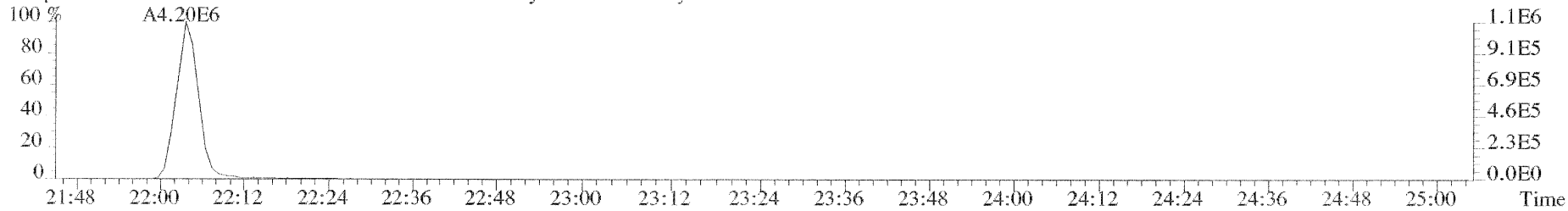
File:20OCT20Z #1-467 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



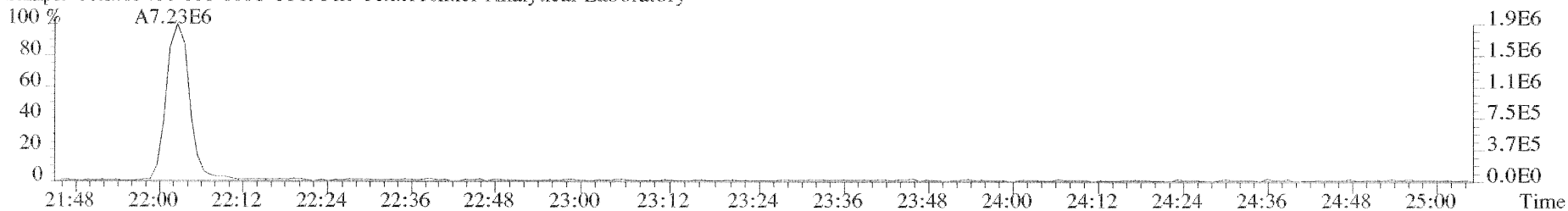
File:20OCT20Z #1-467 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



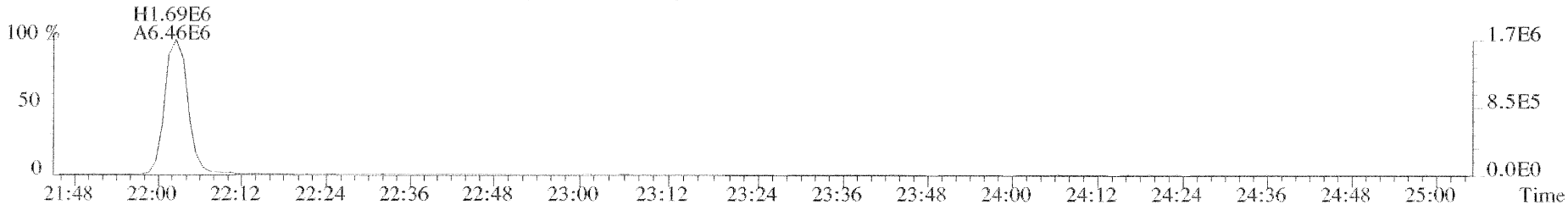
File:20OCT20Z #1-467 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



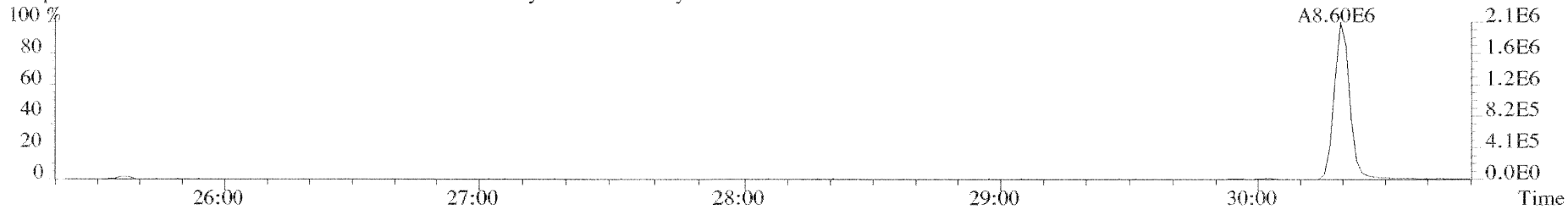
File:20OCT20Z #1-467 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



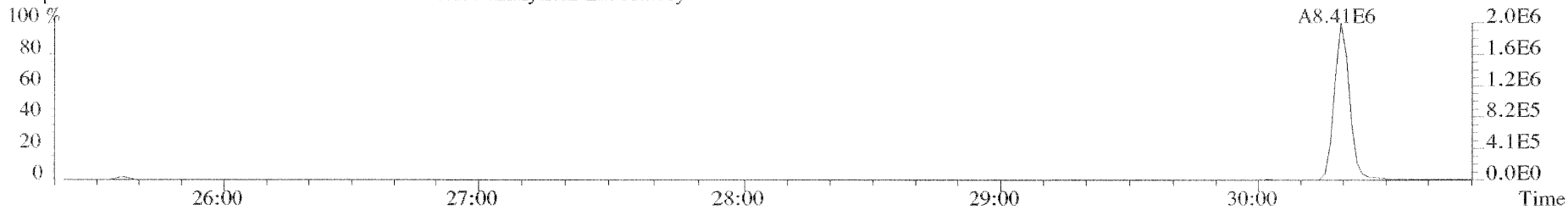
File:20OCT20Z #1-467 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



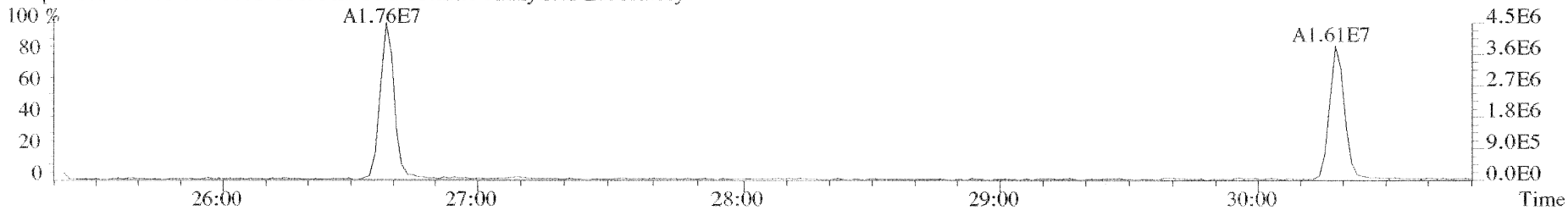
File:20OCT20Z #1-397 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



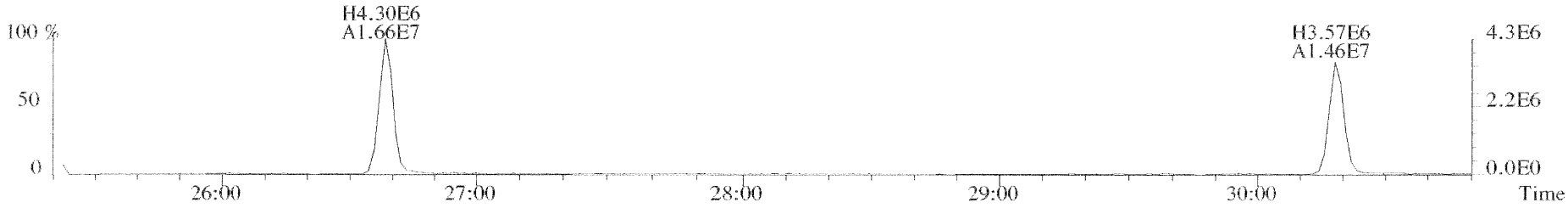
File:20OCT20Z #1-397 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



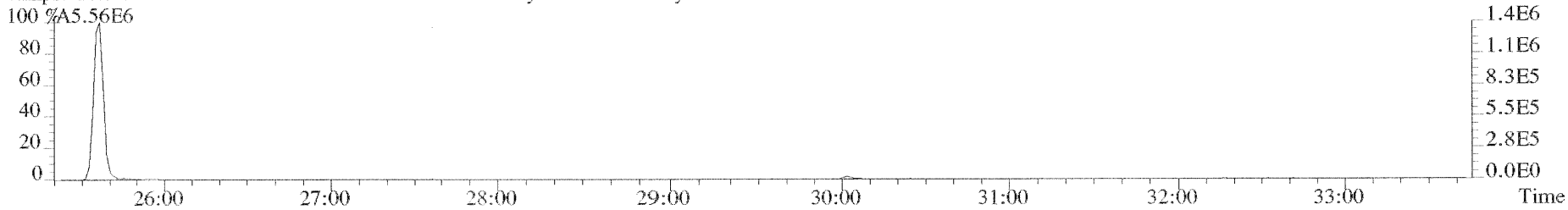
File:20OCT20Z #1-397 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



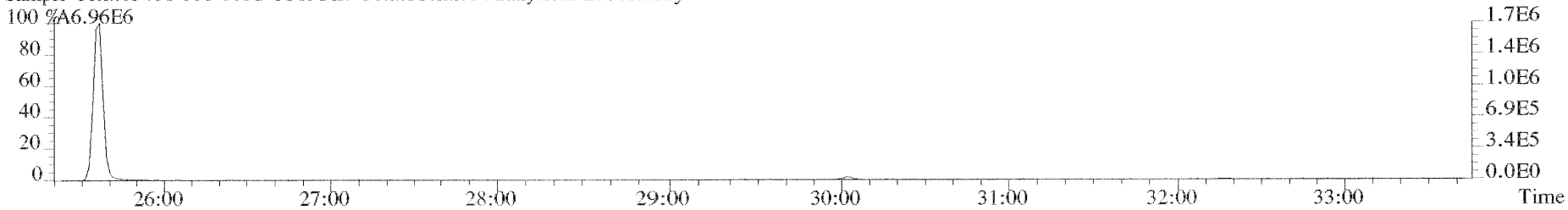
File:20OCT20Z #1-397 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



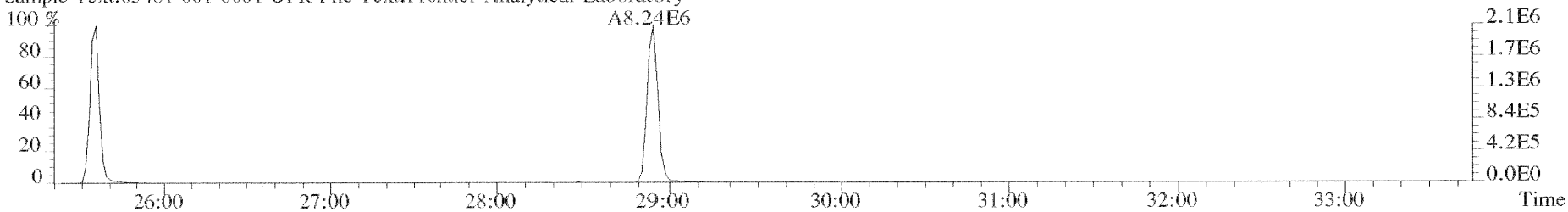
File:20OCT20Z #1-397 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



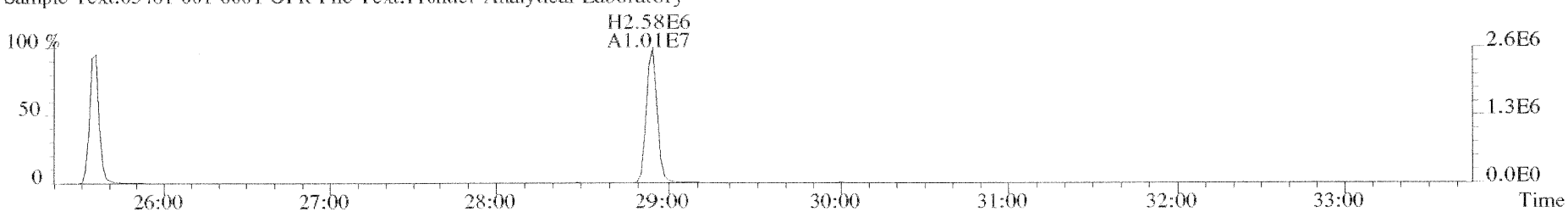
File:20OCT20Z #1-397 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



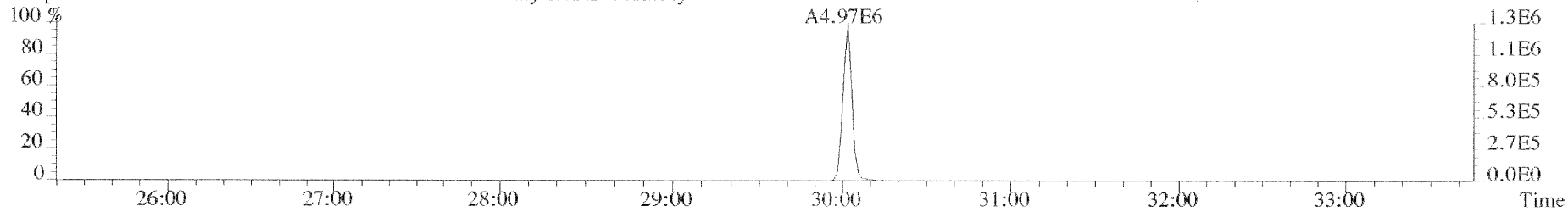
File:20OCT20Z #1-397 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



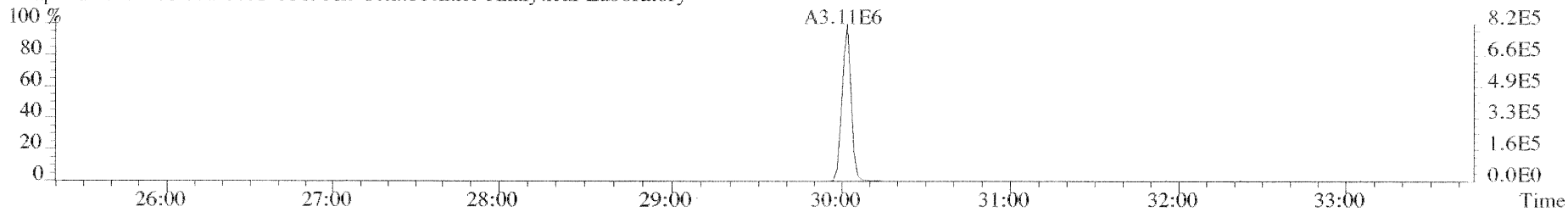
File:20OCT20Z #1-397 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



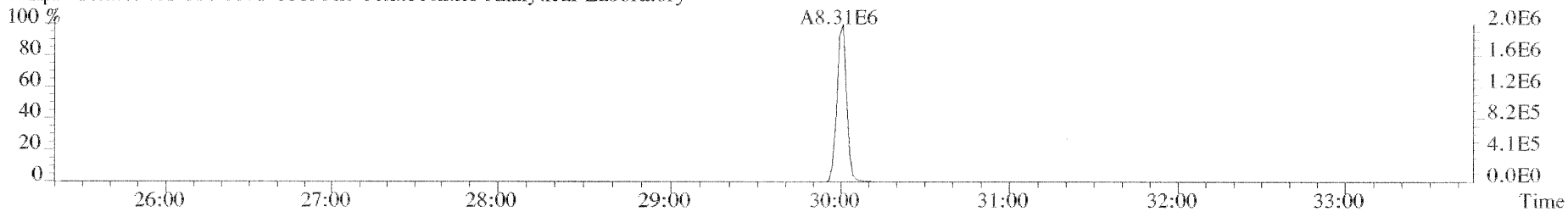
File:20OCT20Z #1-397 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



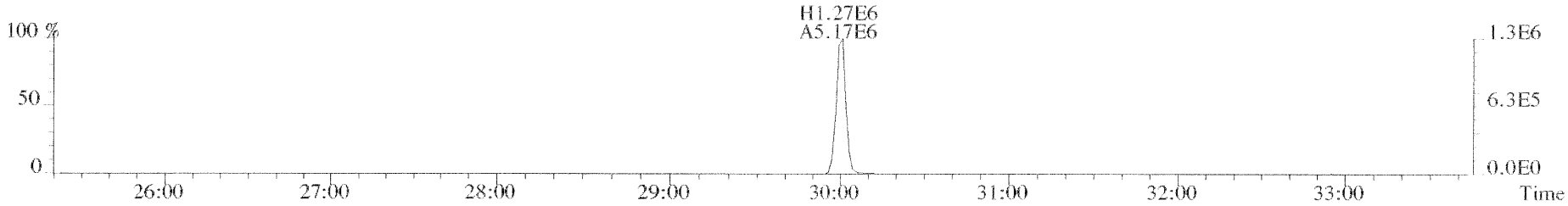
File:20OCT20Z #1-397 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



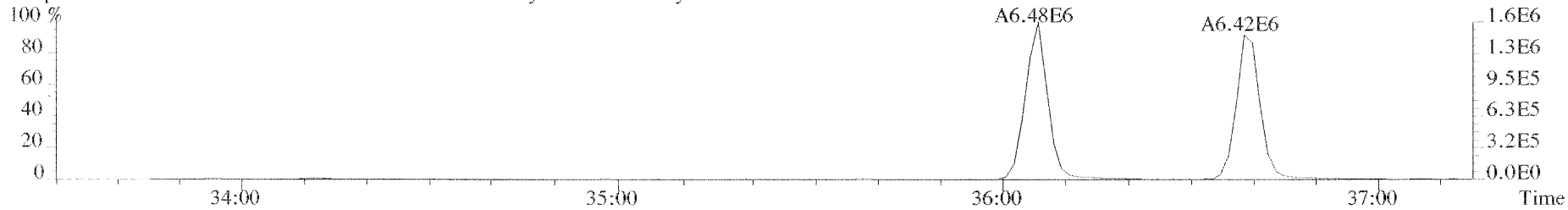
File:20OCT20Z #1-397 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



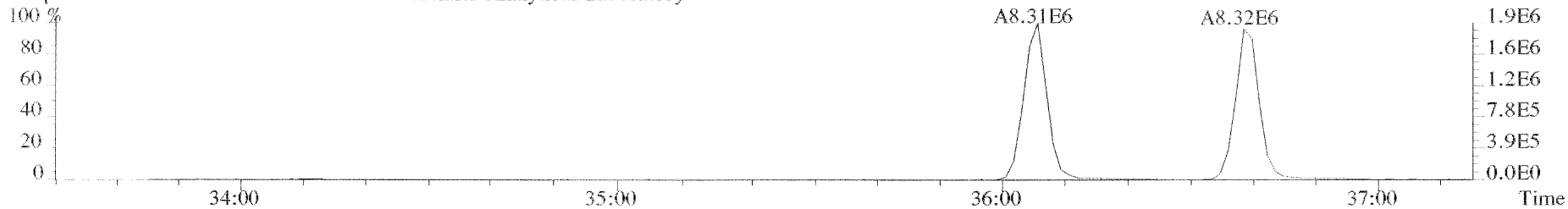
File:20OCT20Z #1-397 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



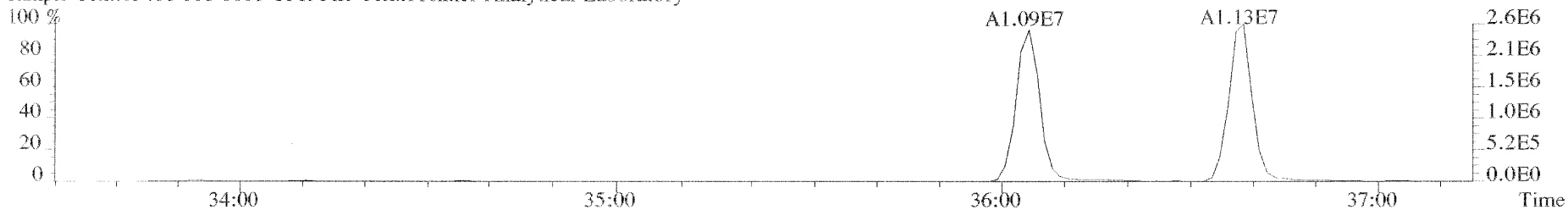
File:20OCT20Z #1-183 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



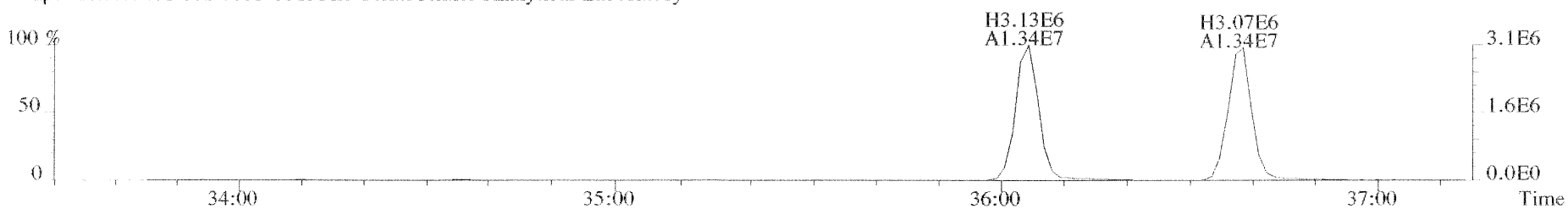
File:20OCT20Z #1-183 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



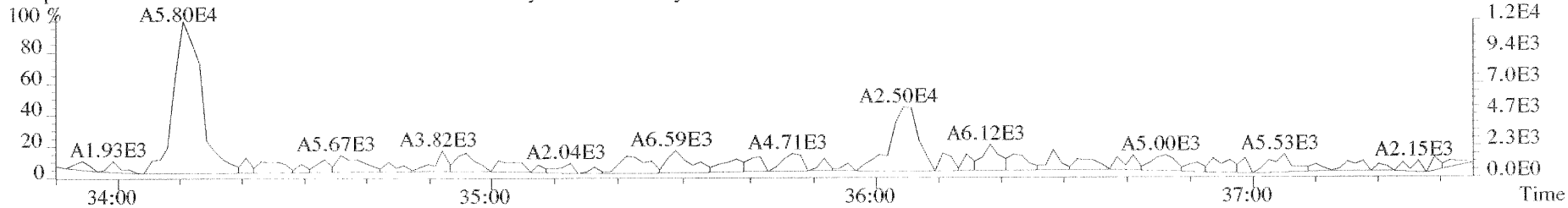
File:20OCT20Z #1-183 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



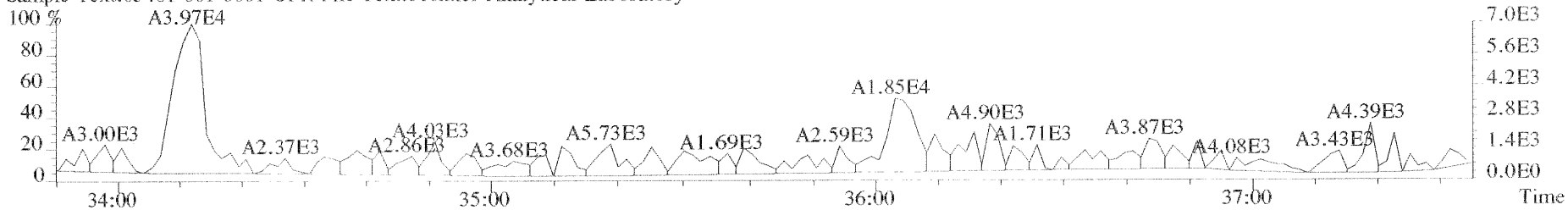
File:20OCT20Z #1-183 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



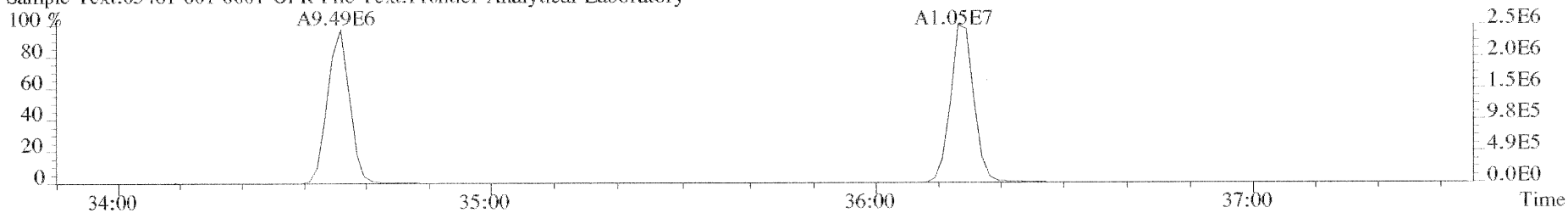
File:20OCT20Z #1-183 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



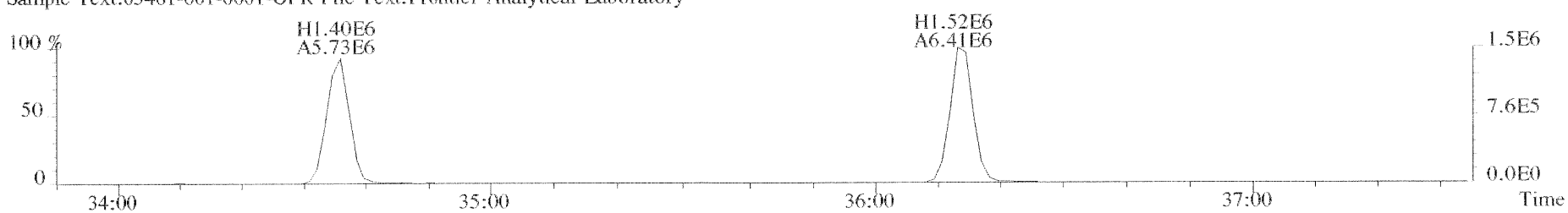
File:20OCT20Z #1-183 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



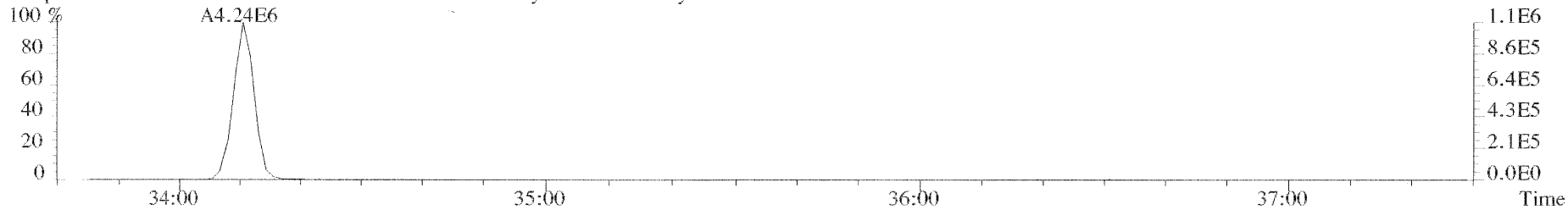
File:20OCT20Z #1-183 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



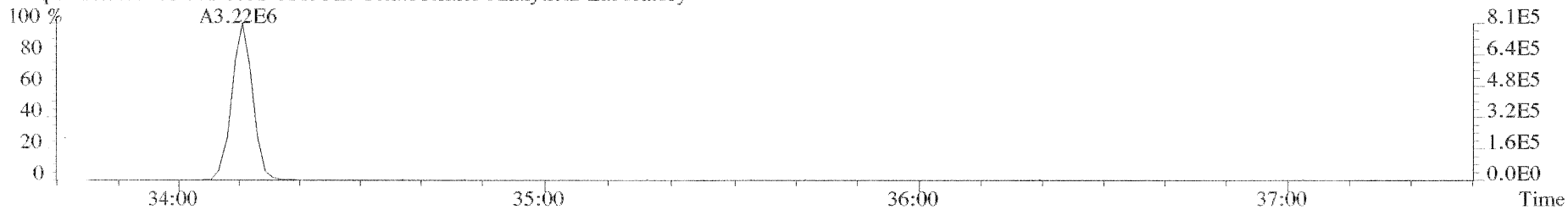
File:20OCT20Z #1-183 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



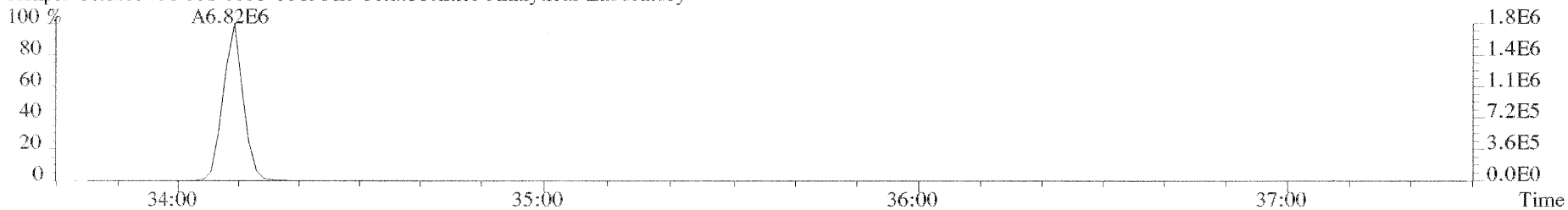
File:20OCT20Z #1-183 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-183 Acq:20-OCT-2020 09:37:51 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:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-183 Acq:20-OCT-2020 09:37:51 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:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



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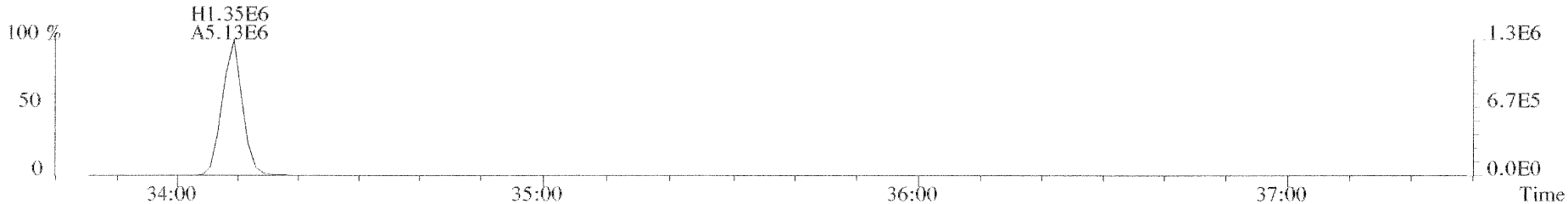
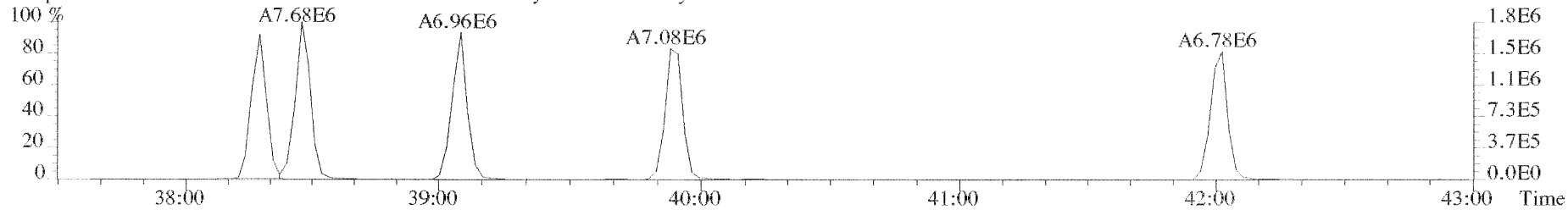
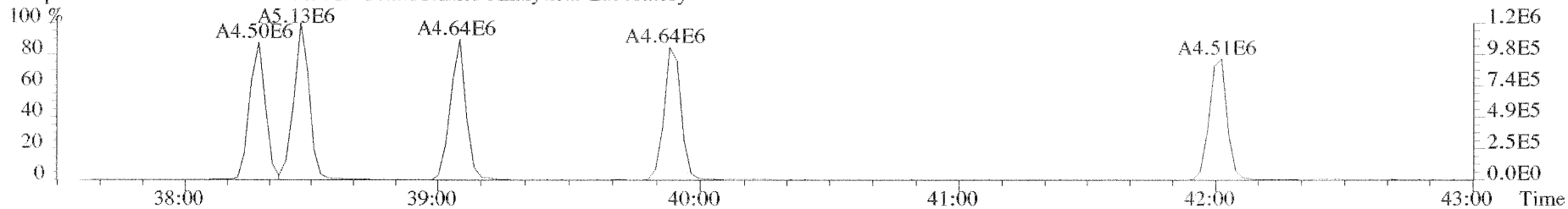
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



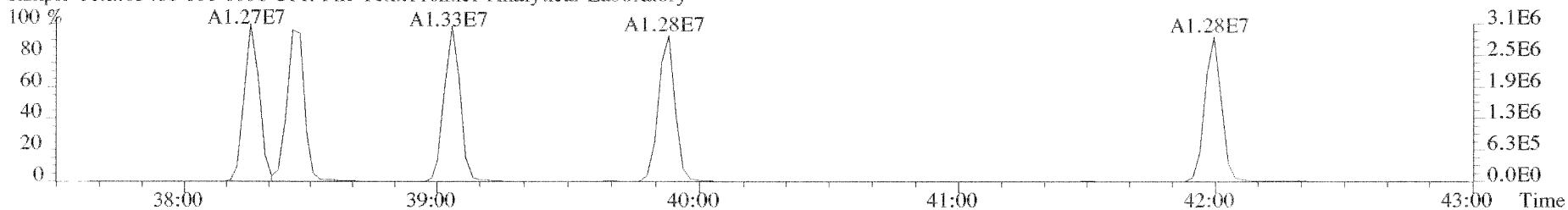
File:20OCT20Z #1-407 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



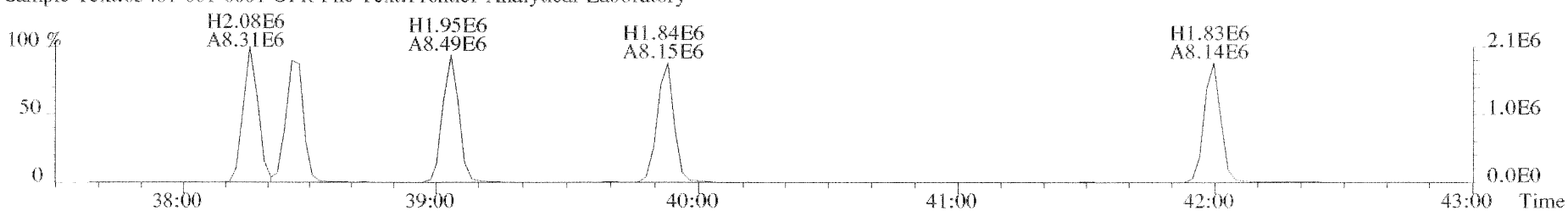
File:20OCT20Z #1-407 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



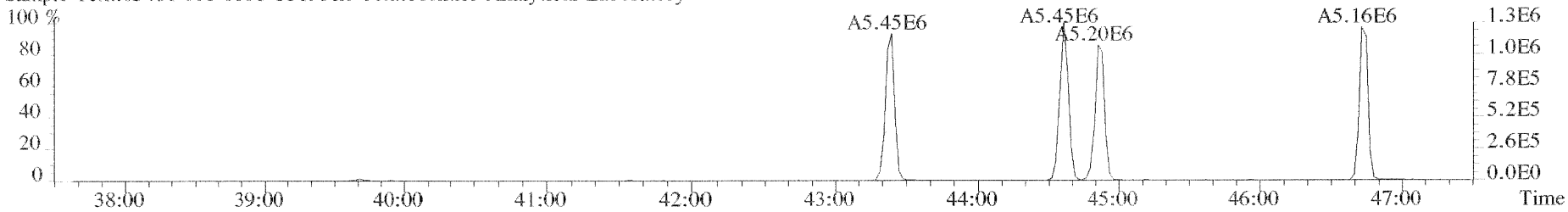
File:20OCT20Z #1-407 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



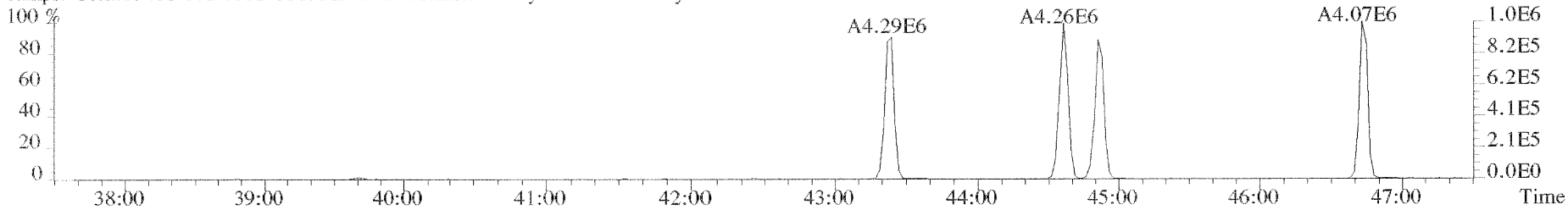
File:20OCT20Z #1-407 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



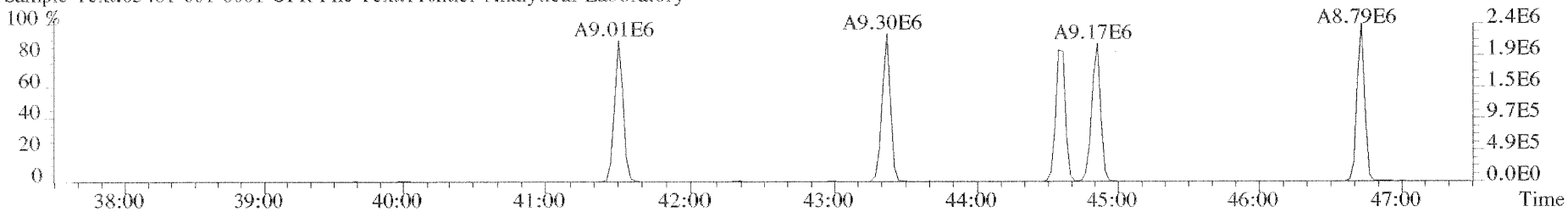
File:20OCT20Z #1-407 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



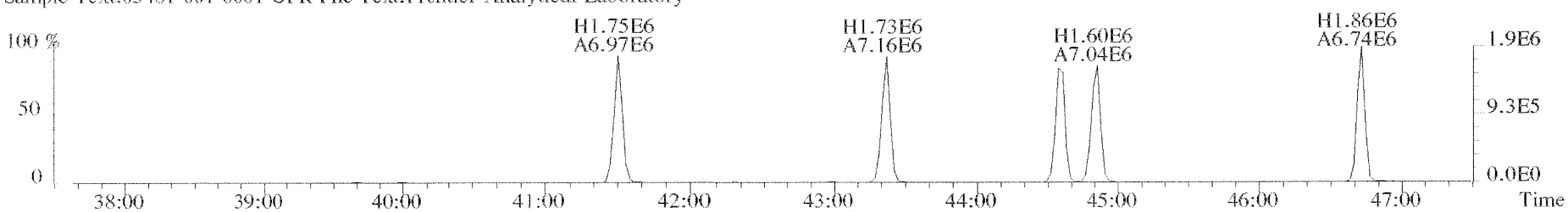
File:20OCT20Z #1-407 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-407 Acq:20-OCT-2020 09:37:51 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:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-407 Acq:20-OCT-2020 09:37:51 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:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



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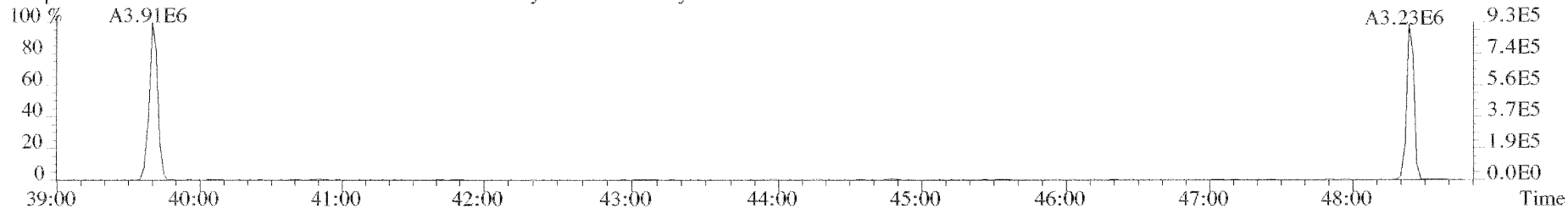
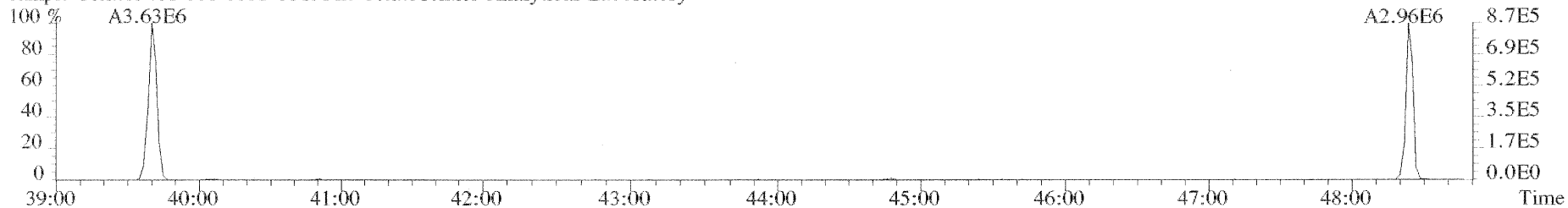
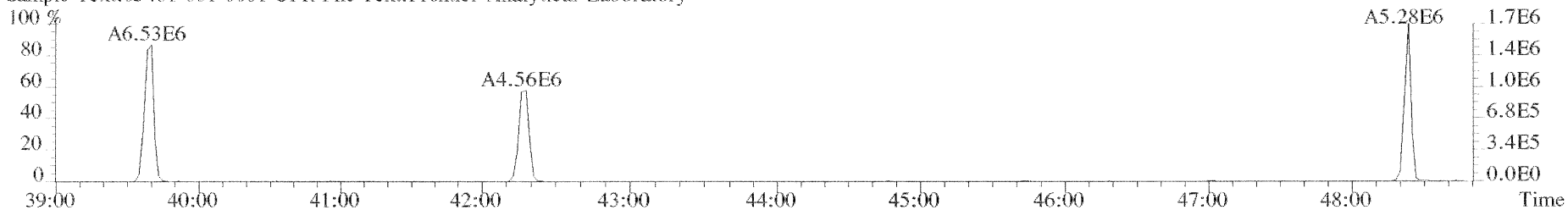
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-407 Acq:20-OCT-2020 09:37:51 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:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-407 Acq:20-OCT-2020 09:37:51 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:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



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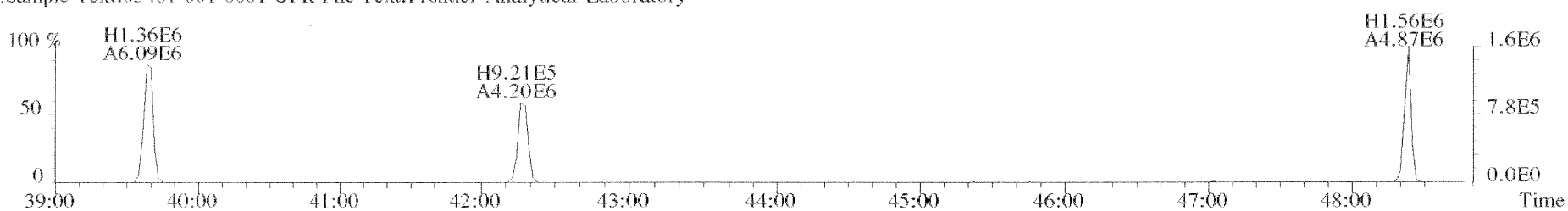
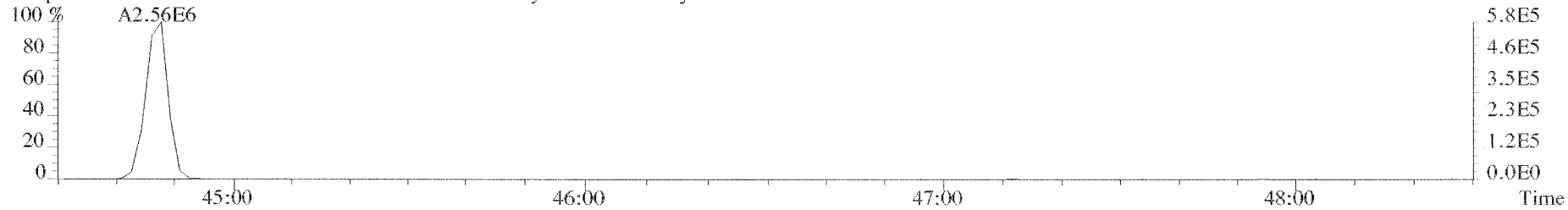
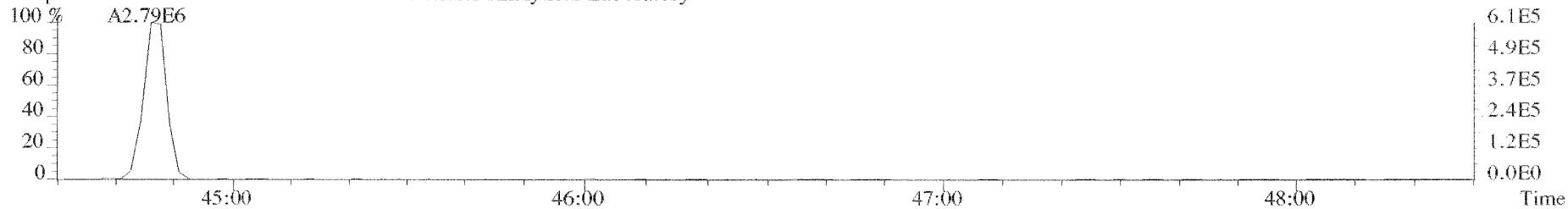
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



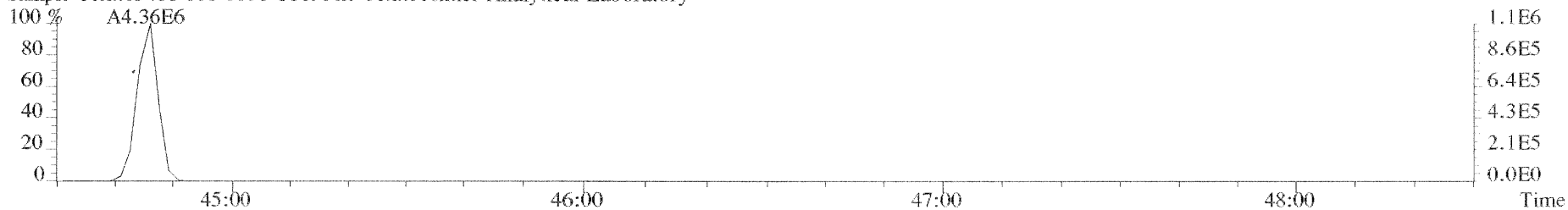
File:20OCT20Z #1-407 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



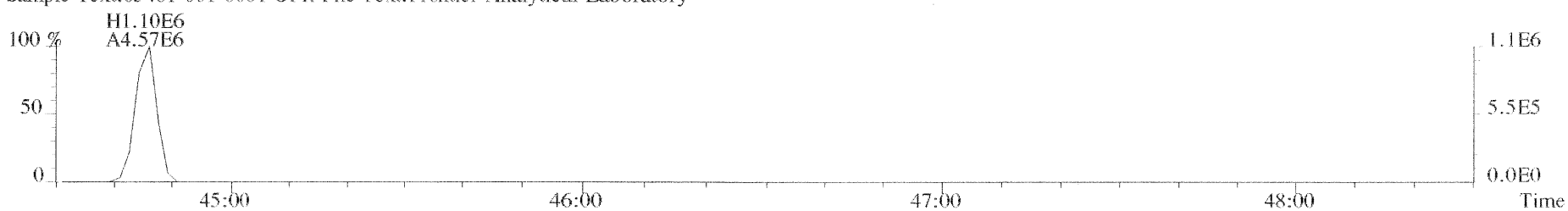
File:20OCT20Z #1-407 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



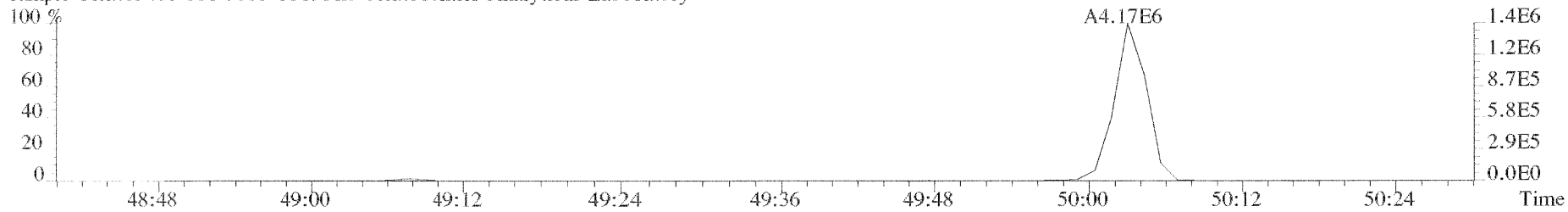
File:20OCT20Z #1-407 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



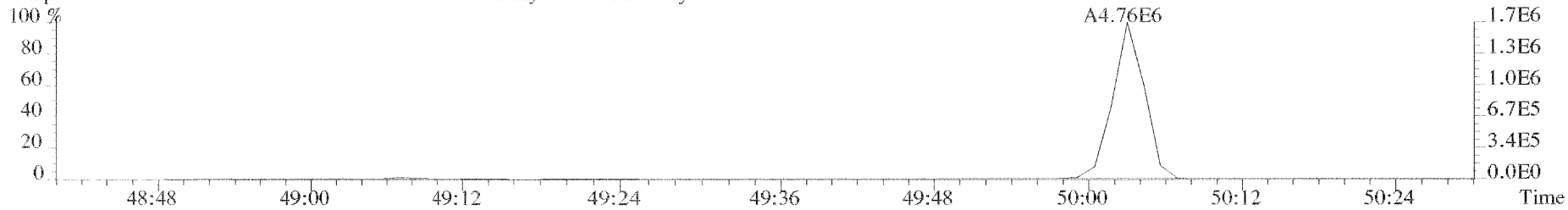
File:20OCT20Z #1-407 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



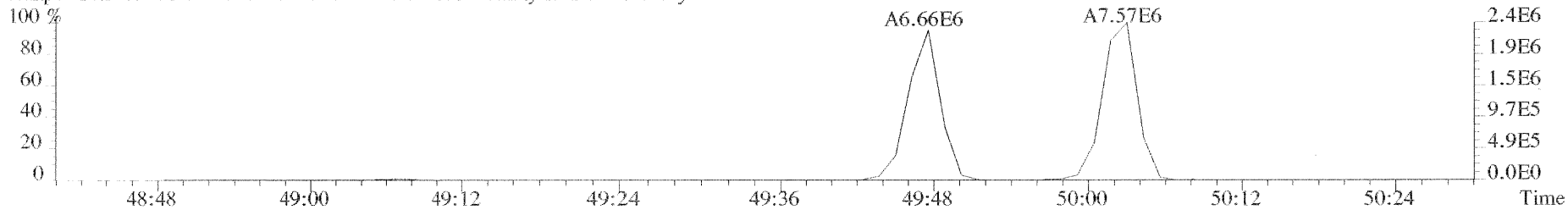
File:20OCT20Z #1-300 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



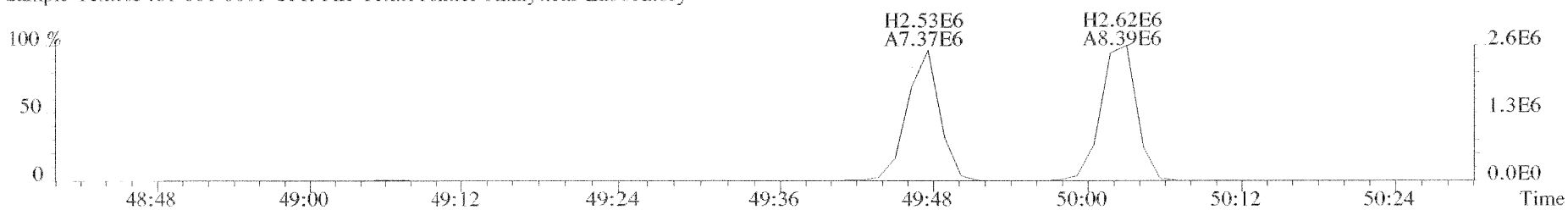
File:20OCT20Z #1-300 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-300 Acq:20-OCT-2020 09:37:51 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:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-300 Acq:20-OCT-2020 09:37:51 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:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



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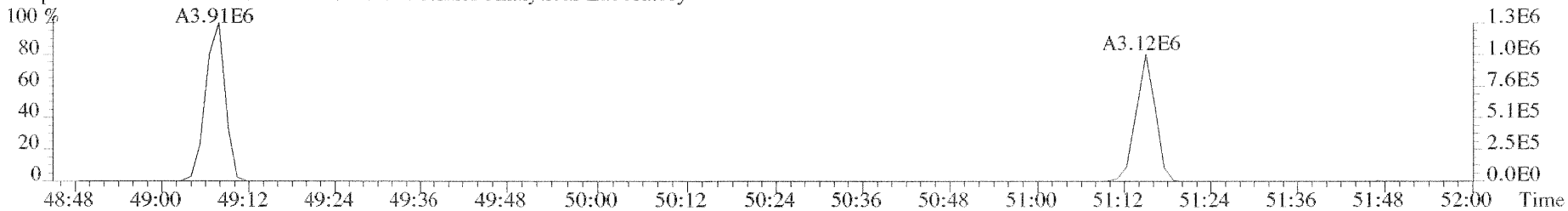
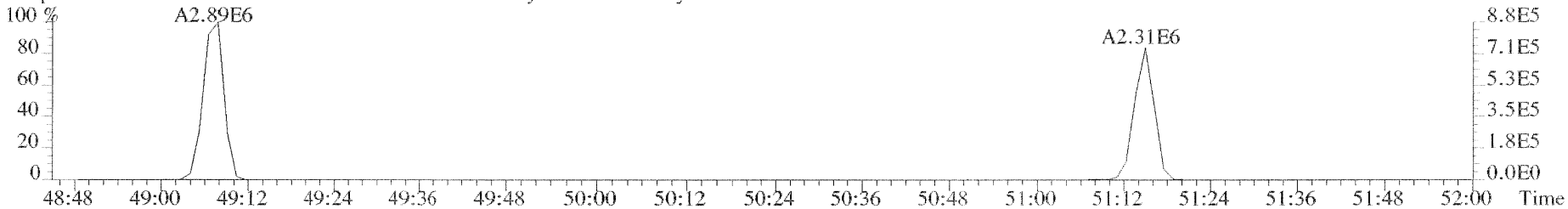
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-301 Acq:20-OCT-2020 09:37:51 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:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



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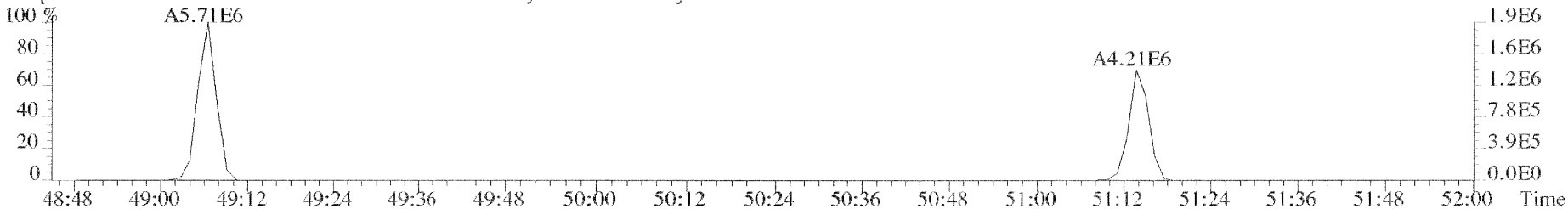
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



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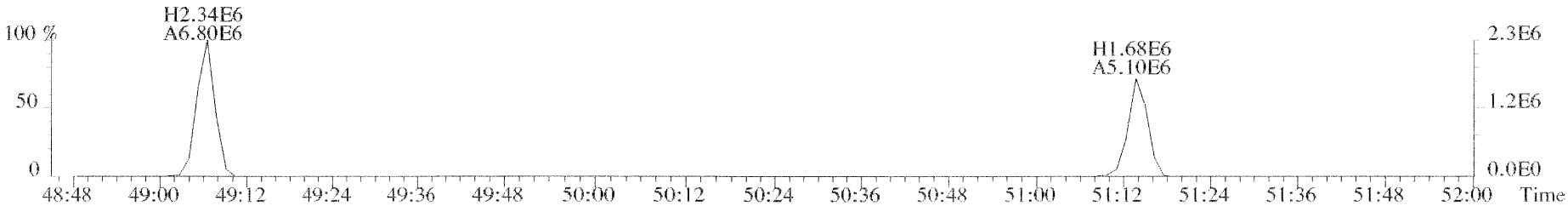
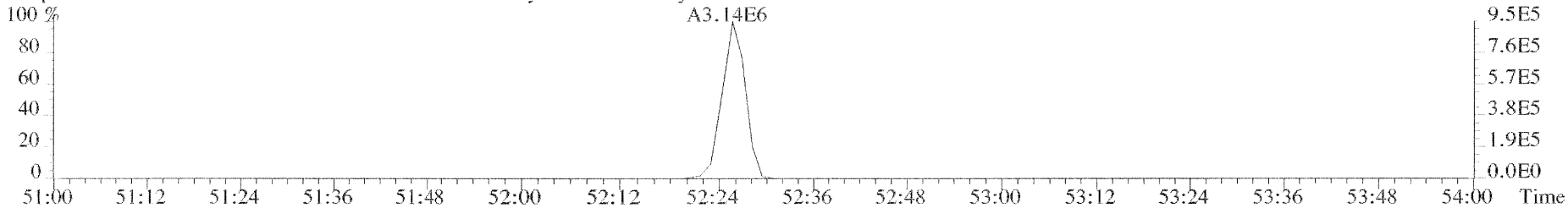
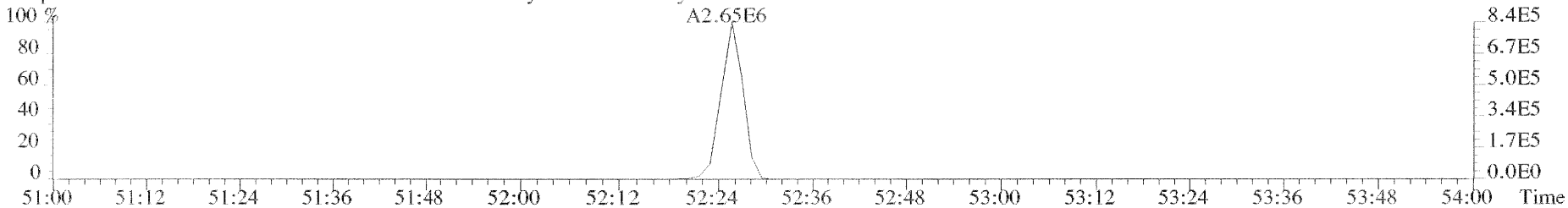
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



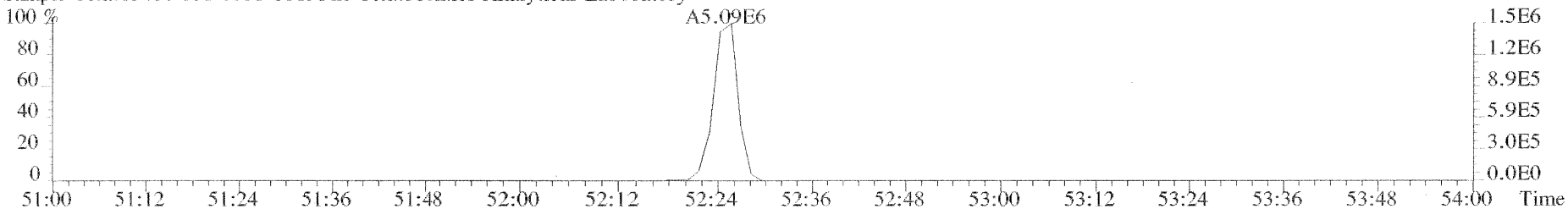
File:20OCT20Z #1-302 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



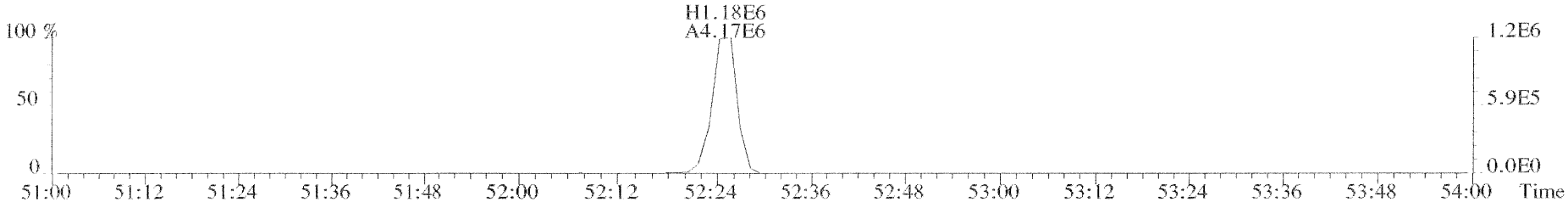
File:20OCT20Z #1-302 Acq:20-OCT-2020 09:37:51 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-302 Acq:20-OCT-2020 09:37:51 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:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-302 Acq:20-OCT-2020 09:37:51 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:05481-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 13371-012-0001-SA Filename: 07NOV20Z Sam:13 Acquired: 7-NOV-20 19:11:46 ICal: DAILY209FAL4-11-7-20
Client ID: LDW-Y3-IN-S010-TB ConCal: ST110720Z1 EndCal: ST110720Z2
Results: 13378-7 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	Height-1	Height-2
PCB-1	*	* n	NotFnd	1.37	*		1100	820	8.66			
13C-PCB-1	1.39e+07	3.22 y	14:31	0.71	8580					85.8	3.08e+06	9.60e+05
PCB-2	*	* n	NotFnd	1.39	*		1100	820	9.17			
PCB-3	*	* n	NotFnd	1.40	*		1100	820	9.73			
13C-PCB-3	1.36e+07	3.24 y	16:58	0.69	8620					86.2	2.67e+06	8.44e+05
PCB-4	*	* n	NotFnd	1.08	*		540	2100	17.1			
PCB-10	*	* n	NotFnd	1.63	*		540	2100	9.12			
13C-PCB-4	1.32e+07	1.58 y	18:12	0.65	8850					88.5	2.21e+06	1.38e+06
PCB-9	*	* n	NotFnd	1.51	*		540	2100	9.85			
PCB-7	*	* n	NotFnd	1.53	*		540	2100	9.71			
PCB-6	*	* n	NotFnd	1.52	*		540	2100	9.83			
PCB-8	*	* n	NotFnd	1.51	*		540	2100	9.90			
PCB-5	*	* n	NotFnd	1.56	*		540	2100	9.58			
PCB-14	7.01e+06	1.62 y	21:58	1.47	2710		-	-	*			
PCB-11	2.24e+05	1.43 y	23:06	1.42	89.8		-	-	*			
PCB-13	*	* n	NotFnd	1.43	*		540	2100	10.4			
PCB-12	*	* n	NotFnd	1.44	*		540	2100	10.4			
PCB-15	*	* n	NotFnd	1.31	*		540	2100	9.73			
13C-PCB-15	2.19e+07	1.59 y	23:44	0.98	9820					98.2	3.21e+06	1.97e+06
PCB-19	*	* n	NotFnd	1.34	*		789	544	12.2			
PCB-30	*	* n	NotFnd	1.94	*		789	544	8.46			
PCB-18	*	* n	NotFnd	1.33	*		789	544	12.3			
PCB-17	*	* n	NotFnd	1.44	*		789	544	11.4			
PCB-27	*	* n	NotFnd	1.86	*		789	544	8.85			
PCB-24	*	* n	NotFnd	1.83	*		789	544	8.99			
PCB-16	*	* n	NotFnd	1.60	*		789	544	10.3			
PCB-32	*	* n	NotFnd	1.71	*		789	544	9.61			
13C-PCB-19	8.04e+06	1.09 y	22:05	0.38	9160					91.6	1.05e+06	9.76e+05
13C-PCB-9	2.29e+07	1.62 y	19:53	-	48.0							
PCB-34	*	* n	NotFnd	1.26	*		987	870	9.62			
PCB-23	*	* n	NotFnd	1.52	*		987	870	8.01			
PCB-29	*	* n	NotFnd	1.40	*		987	870	8.66			
PCB-26	*	* n	NotFnd	1.33	*		987	870	9.16			
PCB-25	*	* n	NotFnd	1.31	*		987	870	9.30			
PCB-31	*	* n	NotFnd	1.40	*		987	870	8.65			
PCB-28	*	* n	NotFnd	1.55	*		987	870	7.83			
PCB-20	*	* n	NotFnd	1.29	*		987	870	9.41		Co-elute PCB 21/33	
PCB-21	*	* n	NotFnd	1.29	*		987	870	9.41		Co-elute PCB 20/33	
PCB-33	*	* n	NotFnd	1.29	*		987	870	9.41		Co-elute PCB 20/21	
PCB-22	*	* n	NotFnd	1.48	*		987	870	8.22			
PCB-36	4.34e+06	1.11 y	28:18	1.32	1760		-	-	*			
PCB-39	*	* n	NotFnd	1.32	*		987	870	9.20			
PCB-38	*	* n	NotFnd	1.33	*		987	870	9.14			
PCB-35	*	* n	NotFnd	1.24	*		987	870	9.81			
PCB-37	*	* n	NotFnd	1.28	*		987	870	9.52			
13C-PCB-37	1.86e+07	1.06 y	30:22	1.76	9480					94.8	1.98e+06	1.84e+06

PCB-54	*	*	n	NotFnd	1.37	*	654	789	9.04			
PCB-50	*	*	n	NotFnd	1.07	*	654	789	11.6			
PCB-53	*	*	n	NotFnd	1.02	*	654	789	12.0			
PCB-51	*	*	n	NotFnd	1.10	*	654	789	11.2			
PCB-45	*	*	n	NotFnd	0.90	*	654	789	13.7			
PCB-46	*	*	n	NotFnd	0.86	*	654	789	14.4			
PCB-52	*	*	n	NotFnd	1.07	*	654	789	11.5	Co-elute PCB 69		
PCB-69	*	*	n	NotFnd	1.07	*	654	789	11.5	Co-elute PCB 52		
PCB-73	3.55e+04	0.70	y	29:05	1.38	21.6	-	-	*			
PCB-43	*	*	n	NotFnd	0.98	*	654	789	12.6	Co-elute PCB 49		
PCB-49	*	*	n	NotFnd	0.98	*	654	789	12.6	Co-elute PCB 43		
PCB-47	*	*	n	NotFnd	1.04	*	654	789	11.9			
PCB-48	*	*	n	NotFnd	1.22	*	654	789	10.1	Co-elute PCB 75		
PCB-75	*	*	n	NotFnd	1.22	*	654	789	10.1	Co-elute PCB 48		
PCB-65	*	*	n	NotFnd	1.23	*	654	789	10.0			
PCB-62	*	*	n	NotFnd	1.36	*	654	789	9.09			
PCB-44	*	*	n	NotFnd	0.85	*	654	789	14.5			
PCB-42	*	*	n	NotFnd	1.10	*	564	789	10.5	Co-elute PCB 59		
PCB-59	*	*	n	NotFnd	1.10	*	654	789	11.2	Co-elute PCB 42		
PCB-72	*	*	n	NotFnd	1.23	*	654	789	10.0	Co-elute PCB 41/71/64		
PCB-41	*	*	n	NotFnd	1.23	*	654	789	10.0	Co-elute PCB 72/71/64		
PCB-71	*	*	n	NotFnd	1.23	*	654	789	10.0	Co-elute PCB 72/41/64		
PCB-64	*	*	n	NotFnd	1.23	*	654	789	10.0	Co-elute PCB 72/41/71		
PCB-68	*	*	n	NotFnd	1.40	*	654	789	8.81			
PCB-40	*	*	n	NotFnd	0.78	*	654	789	15.8			
PCB-57	*	*	n	NotFnd	1.33	*	654	789	9.25			
PCB-67	*	*	n	NotFnd	1.23	*	654	789	10.1			
PCB-58	*	*	n	NotFnd	1.44	*	654	789	8.55			
PCB-63	*	*	n	NotFnd	1.35	*	654	789	9.18			
PCB-74	*	*	n	NotFnd	1.28	*	654	789	9.64			
PCB-61	*	*	n	NotFnd	1.23	*	654	789	10.00	Co-elute PCB 70		
PCB-70	*	*	n	NotFnd	1.23	*	654	789	10.00	Co-elute PCB 61		
PCB-76	*	*	n	NotFnd	1.38	*	654	789	8.97	Co-elute PCB 66		
PCB-66	*	*	n	NotFnd	1.38	*	654	789	8.97	Co-elute PCB 76		
PCB-80	*	*	n	NotFnd	1.58	*	654	789	7.81			
PCB-55	1.01e+05	0.73	y	33:30	1.36	62.2	-	-	*			
13C-PCB-54	1.19e+07	0.82	y	25:38	1.21	8860				88.6	1.32e+06	1.60e+06
PCB-104	3.67e+06	1.56	y	30:04	1.22	3780	-	-	*			
PCB-96	*	*	n	NotFnd	1.18	*	372	364	7.76			
PCB-103	*	*	n	NotFnd	0.97	*	372	364	9.47			
PCB-100	*	*	n	NotFnd	0.99	*	372	364	9.21			
PCB-94	*	*	n	NotFnd	0.82	*	372	364	11.2			
PCB-98	*	*	n	NotFnd	0.86	*	372	364	10.7	Co-elute PCB 102		
PCB-102	*	*	n	NotFnd	0.86	*	372	364	10.7	Co-elute PCB 98		
PCB-95	*	*	n	NotFnd	0.87	*	372	364	10.5			
PCB-93	*	*	n	NotFnd	0.86	*	372	364	10.7			
PCB-88	*	*	n	NotFnd	0.90	*	372	364	10.2	Co-elute PCB 91		
PCB-91	*	*	n	NotFnd	0.90	*	372	364	10.2	Co-elute PCB 88		
PCB-121	4.93e+06	1.55	y	33:30	1.19	5220	372	364	7.71			
13C-PCB-104	7.97e+06	1.58	y	30:03	0.78	9160				91.6	1.24e+06	7.77e+05
13C-PCB-28	2.44e+07	0.96	y	26:42	2.19	9990				99.9	2.59e+06	2.47e+06
13C-PCB-52	1.11e+07	0.82	y	28:57	-	51.5						

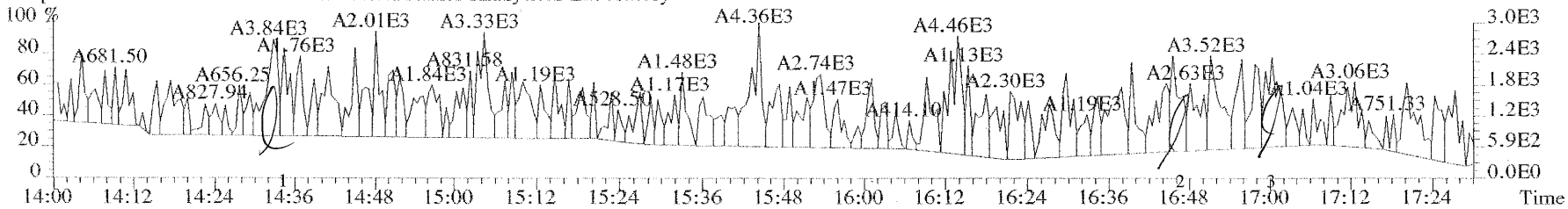
PCB-56	*	*	n	NotFnd	1.25	*	750	1040	9.24			Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.25	*	750	1040	9.24			Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.31	*	750	1040	8.80			
PCB-78	1.06e+07	0.82	y	35:39	1.27	4630	-	-	*			
PCB-81	*	*	n	NotFnd	1.33	*	750	1040	8.64			
13C-PCB-81	1.78e+07	0.79	y	36:07	1.84	9470				94.7	1.72e+06	2.18e+06
PCB-77	*	*	n	NotFnd	1.17	*	750	1040	9.93			
13C-PCB-77	1.82e+07	0.80	y	36:41	1.89	9410				94.1	1.70e+06	2.16e+06
PCB-155	5.62e+06	1.30	y	34:13	1.16	5600	-	-	*			
PCB-150	*	*	n	NotFnd	1.10	*	651	510	11.7			
PCB-152	*	*	n	NotFnd	1.09	*	651	510	11.8			
PCB-145	*	*	n	NotFnd	1.12	*	651	510	11.5			
PCB-136	*	*	n	NotFnd	1.06	*	651	510	12.1			
PCB-148	*	*	n	NotFnd	0.86	*	651	510	14.9			
PCB-154	*	*	n	NotFnd	0.94	*	651	510	13.7			
13C-PCB-155	8.65e+06	1.27	y	34:12	1.02	8300				83.0	1.27e+06	9.90e+05
13C-PCB-111	1.18e+07	1.59	y	36:17	1.31	8760				87.6	1.75e+06	1.05e+06
13C-PCB-101	1.02e+07	1.61	y	34:38	-	55.3						
PCB-84	*	*	n	NotFnd	0.69	*	654	510	11.8			Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.69	*	654	510	11.8			Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.68	*	654	510	12.0			
PCB-90	*	*	n	NotFnd	0.76	*	654	510	10.8			Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.76	*	654	510	10.8			Co-elute PCB 90
PCB-113	*	*	n	NotFnd	0.81	*	654	510	10.1			
PCB-99	*	*	n	NotFnd	0.89	*	654	510	9.27			
PCB-119	*	*	n	NotFnd	0.97	*	654	510	8.48			
PCB-83	*	*	n	NotFnd	0.76	*	654	510	10.8			Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.76	*	654	510	10.8			Co-elute PCB 83
PCB-109	*	*	n	NotFnd	0.95	*	654	510	8.68			
PCB-97	*	*	n	NotFnd	0.66	*	654	510	12.4			
PCB-86	*	*	n	NotFnd	0.67	*	654	510	12.3			
PCB-125	*	*	n	NotFnd	0.86	*	654	510	9.55			Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	0.86	*	654	510	9.55			Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	0.86	*	654	510	9.55			Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	0.99	*	654	510	8.32			Co-elute PCB 115
PCB-115	*	*	n	NotFnd	0.99	*	654	510	8.32			Co-elute PCB 111
PCB-85	*	*	n	NotFnd	0.83	*	654	510	9.93			Co-elute PCB 116
PCB-116	*	*	n	NotFnd	0.83	*	654	510	9.93			Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.00	*	654	510	8.18			
PCB-110	*	*	n	NotFnd	0.99	*	654	510	8.31			
PCB-82	*	*	n	NotFnd	0.58	*	654	510	14.1			
PCB-124	*	*	n	NotFnd	1.27	*	840	657	8.31			
PCB-108	*	*	n	NotFnd	1.26	*	840	657	8.37			Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.26	*	840	657	8.37			Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.21	*	840	657	8.52			
13C-PCB-123	1.46e+07	1.64	y	38:19	1.42	8860				88.6	2.28e+06	1.36e+06
PCB-118	*	*	n	NotFnd	1.21	*	840	657	8.08			Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.21	*	840	657	8.08			Co-elute PCB 118
13C-PCB-118	1.61e+07	1.65	y	38:29	1.54	9020				90.2	2.42e+06	1.43e+06
PCB-114	*	*	n	NotFnd	1.30	*	840	657	8.18			
13C-PCB-114	1.56e+07	1.61	y	39:07	1.46	9230				92.3	2.18e+06	1.35e+06
PCB-122	*	*	n	NotFnd	1.29	*	840	657	8.19			
PCB-105	*	*	n	NotFnd	1.31	*	840	657	8.88			
13C-PCB-105	1.51e+07	1.65	y	39:56	1.45	8970				89.7	2.02e+06	1.21e+06

PCB-127	*	*	n	NotFnd	1.21	*	840	657	8.75				
PCB-126	*	*	n	NotFnd	1.28	*	840	657	9.38				
13C-PCB-126	1.46e+07	1.58	y	42:03	1.31	9580				95.8	1.91e+06	1.21e+06	
PCB-151	*	*	n	NotFnd	1.00	*	654	510	10.1				
PCB-135	*	*	n	NotFnd	1.01	*	654	510	10.1				
PCB-144	*	*	n	NotFnd	1.03	*	654	510	9.85				
PCB-147	*	*	n	NotFnd	1.11	*	654	510	9.12				
PCB-139	*	*	n	NotFnd	1.09	*	654	510	9.32		Co-elute PCB 149		
PCB-149	*	*	n	NotFnd	1.09	*	654	510	9.32		Co-elute PCB 139		
PCB-140	*	*	n	NotFnd	1.11	*	654	510	9.18				
PCB-143	*	*	n	NotFnd	0.90	*	654	510	11.3		Co-elute PCB 134		
PCB-134	*	*	n	NotFnd	0.90	*	654	510	11.3		Co-elute PCB 143		
PCB-131	*	*	n	NotFnd	0.92	*	654	510	11.1		Co-elute PCB 133		
PCB-133	*	*	n	NotFnd	0.92	*	654	510	11.1		Co-elute PCB 131		
PCB-142	1.05e+06	1.28	y	39:28	0.94	928	-	-	*				
PCB-165	*	*	n	NotFnd	1.20	*	654	510	8.46		Co-elute PCB 146		
PCB-146	*	*	n	NotFnd	1.20	*	654	510	8.46		Co-elute PCB 165		
PCB-161	*	*	n	NotFnd	1.14	*	654	510	8.91		Co-elute PCB 132		
PCB-132	*	*	n	NotFnd	1.14	*	654	510	8.91		Co-elute PCB 161		
PCB-153	*	*	n	NotFnd	1.19	*	654	510	8.52				
PCB-168	*	*	n	NotFnd	1.33	*	654	510	7.63				
PCB-141	*	*	n	NotFnd	1.03	*	654	510	9.91				
PCB-137	*	*	n	NotFnd	1.03	*	654	510	9.90				
PCB-130	*	*	n	NotFnd	0.89	*	654	510	11.4				
PCB-138	*	*	n	NotFnd	1.19	*	654	510	8.51		Co-elute PCB 163/164		
PCB-163	*	*	n	NotFnd	1.19	*	654	510	8.51		Co-elute PCB 138/164		
PCB-164	*	*	n	NotFnd	1.19	*	654	510	8.51		Co-elute PCB 138/163		
PCB-158	*	*	n	NotFnd	1.33	*	654	510	7.64		Co-elute PCB 160		
PCB-160	*	*	n	NotFnd	1.33	*	654	510	7.64		Co-elute PCB 158		
PCB-129	*	*	n	NotFnd	0.87	*	564	510	10.8				
PCB-166	*	*	n	NotFnd	1.29	*	654	510	7.86				
PCB-159	*	*	n	NotFnd	1.39	*	654	510	7.33				
PCB-128	*	*	n	NotFnd	1.12	*	654	510	9.11		Co-elute PCB 162		
PCB-162	*	*	n	NotFnd	1.12	*	654	510	9.11		Co-elute PCB 128		
PCB-167	*	*	n	NotFnd	1.24	*	654	510	8.81				
13C-PCB-167	1.22e+07	1.26	y	43:24	1.14	9160				91.6	1.48e+06	1.18e+06	
PCB-156	*	*	n	NotFnd	1.30	*	654	510	7.54				
13C-PCB-156	1.20e+07	1.29	y	44:38	1.10	9360				93.6	1.66e+06	1.30e+06	
PCB-157	*	*	n	NotFnd	1.27	*	654	510	8.37				
13C-PCB-157	1.23e+07	1.30	y	44:53	1.16	9150				91.5	1.54e+06	1.21e+06	
PCB-169	*	*	n	NotFnd	1.21	*	654	510	7.72				
13C-PCB-169	1.17e+07	1.27	y	46:45	1.07	9430				94.3	1.73e+06	1.39e+06	

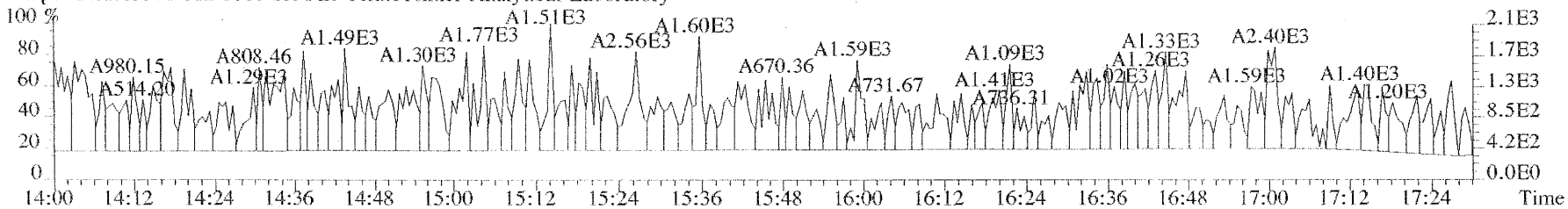
PCB-188	*	*	n	NotFnd	1.19	*	530	453	9.81			
13C-PCB-188	8.74e+06	1.05	y	39:41	0.92	8150				81.5	1.07e+06	1.03e+06
PCB-184	6.80e+06	1.06	y	40:08	1.33	6080	-	-	*			
PCB-179	*	*	n	NotFnd	1.26	*	530	453	8.33			
PCB-176	*	*	n	NotFnd	1.20	*	530	453	8.77			
PCB-186	*	*	n	NotFnd	1.22	*	530	453	8.59			
PCB-178	*	*	n	NotFnd	0.88	*	530	453	12.0			
PCB-175	*	*	n	NotFnd	0.93	*	530	453	11.3			
PCB-187	*	*	n	NotFnd	1.00	*	530	453	10.5		Co-elute PCB 182	
PCB-182	*	*	n	NotFnd	1.00	*	530	453	10.5		Co-elute PCB 187	
PCB-183	*	*	n	NotFnd	0.99	*	530	453	10.6			
PCB-185	*	*	n	NotFnd	0.90	*	530	453	11.6			
PCB-174	*	*	n	NotFnd	0.84	*	530	453	12.4			
PCB-181	*	*	n	NotFnd	1.01	*	530	453	10.4			
PCB-177	*	*	n	NotFnd	0.86	*	530	453	12.2			
PCB-171	*	*	n	NotFnd	0.91	*	530	453	11.6			
PCB-173	*	*	n	NotFnd	0.85	*	530	453	12.3			
PCB-172	1.03e+05	1.04	y	45:26	0.85	143	-	-	*			
PCB-192	4.82e+06	1.08	y	45:37	1.15	5000	-	-	*			
PCB-180	*	*	n	NotFnd	0.89	*	530	453	11.7			
PCB-193	*	*	n	NotFnd	1.22	*	530	453	8.61			
PCB-191	*	*	n	NotFnd	1.18	*	530	453	8.87			
PCB-170	*	*	n	NotFnd	0.84	*	530	453	12.5			
PCB-190	*	*	n	NotFnd	1.15	*	530	453	9.10			
PCB-189	*	*	n	NotFnd	1.15	*	530	453	7.97			
13C-PCB-189	8.09e+06	1.12	y	48:25	0.80	8720				87.2	1.41e+06	1.26e+06
PCB-202	*	*	n	NotFnd	1.11	*	308	380	11.5			
PCB-201	*	*	n	NotFnd	1.19	*	308	380	10.7			
PCB-204	8.92e+06	0.93	y	45:24	1.21	12300	-	-	*			
PCB-197	4.46e+04	0.80	y	45:40	1.22	61.0	-	-	*			
PCB-200	*	*	n	NotFnd	1.19	*	308	380	10.7			
PCB-198	*	*	n	NotFnd	0.86	*	308	380	14.8			
PCB-199	*	*	n	NotFnd	0.88	*	308	380	14.5			
PCB-203	*	*	n	NotFnd	0.95	*	308	380	13.4		Co-elute PCB 196	
PCB-196	*	*	n	NotFnd	0.95	*	308	380	13.4		Co-elute PCB 203	
13C-PCB-202	5.98e+06	0.87	y	44:48	0.64	7990				79.9	6.25e+05	7.25e+05
13C-PCB-178	6.88e+06	1.08	y	42:20	0.67	8800				88.0	8.46e+05	7.84e+05
13C-PCB-138	1.16e+07	1.29	y	41:33	-	55.4						
PCB-195	*	*	n	NotFnd	0.93	*	984	1100	13.2			
PCB-194	*	*	n	NotFnd	0.95	*	984	1100	12.9			
PCB-205	*	*	n	NotFnd	1.18	*	984	1100	10.4			
13C-PCB-205	1.30e+07	0.90	y	50:04	1.24	9440				94.4	1.97e+06	2.27e+06
PCB-208	*	*	n	NotFnd	1.11	*	548	848	8.88			
13C-PCB-208	1.14e+07	0.82	y	49:09	1.12	9190				91.9	1.61e+06	1.95e+06
PCB-207	5.34e+04	1.29	y	49:27	1.29	43.1	-	-	*			
PCB-206	*	*	n	NotFnd	1.13	*	548	848	13.2			
13C-PCB-206	7.87e+06	0.82	y	51:16	0.84	8420				84.2	1.03e+06	1.31e+06
PCB-209	5.80e+04	1.25	y	52:28	1.24	63.6	-	-	*			
13C-PCB-209	7.34e+06	1.20	y	52:28	0.81	8120				81.2	1.26e+06	1.05e+06
13C-PCB-194	1.11e+07	0.92	y	49:50	-	50.5						

Analyst: _____ Date: 11/10/20

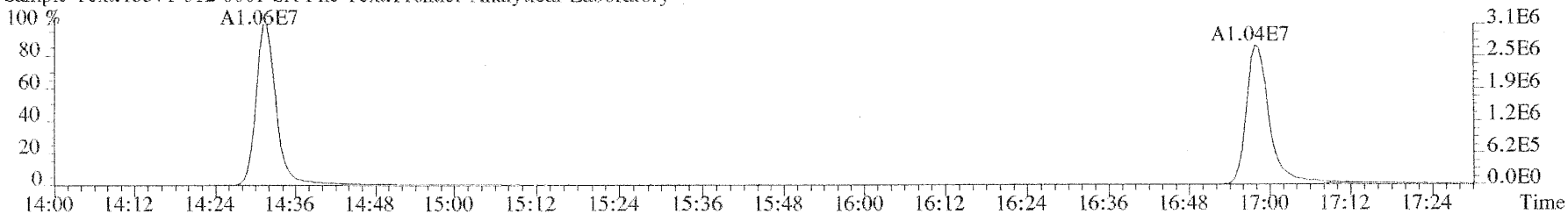
File:07NOV20Z #1-783 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



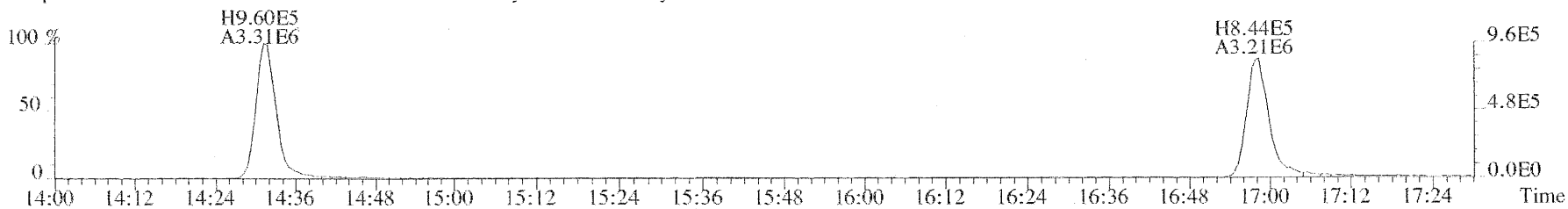
File:07NOV20Z #1-783 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



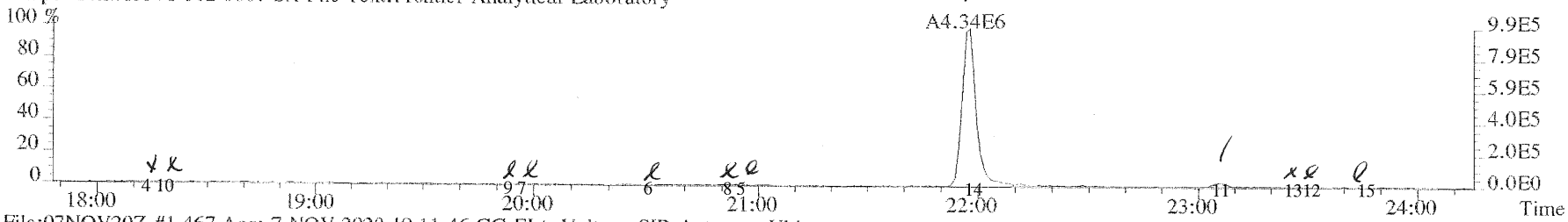
File:07NOV20Z #1-783 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



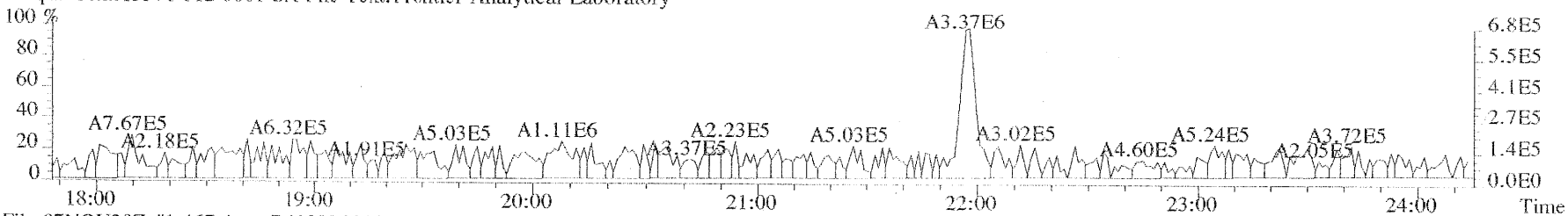
File:07NOV20Z #1-783 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



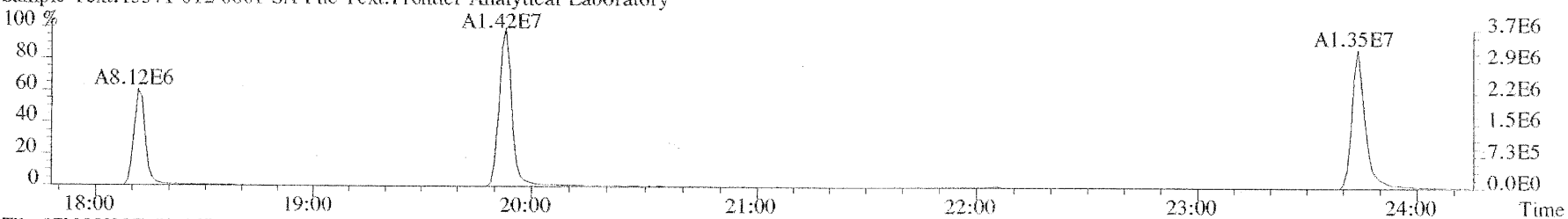
File:07NOV20Z #1-467 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



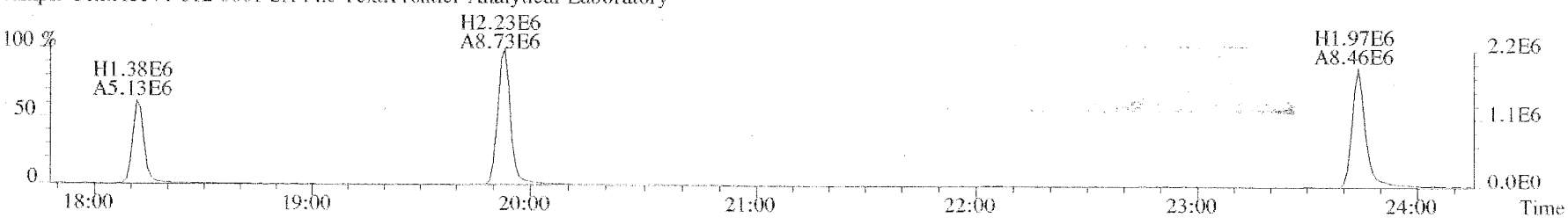
File:07NOV20Z #1-467 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



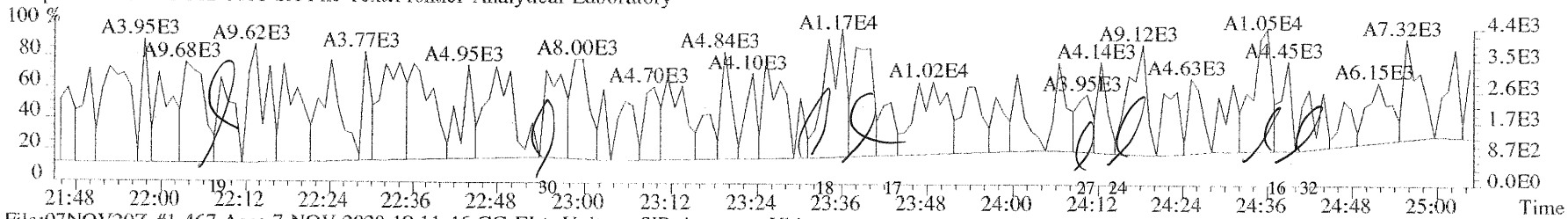
File:07NOV20Z #1-467 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



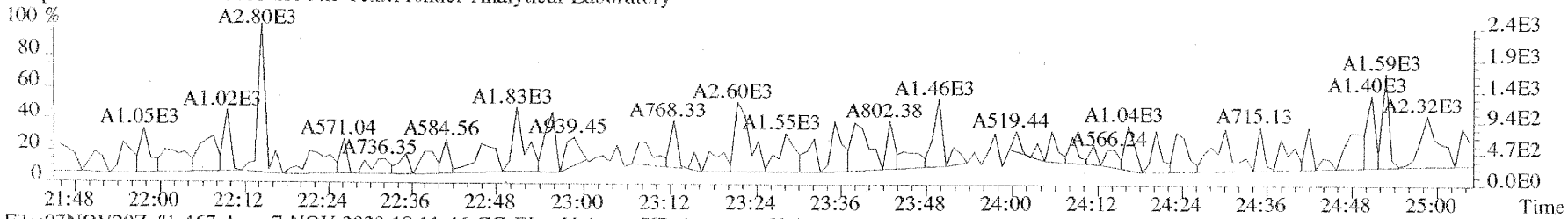
File:07NOV20Z #1-467 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



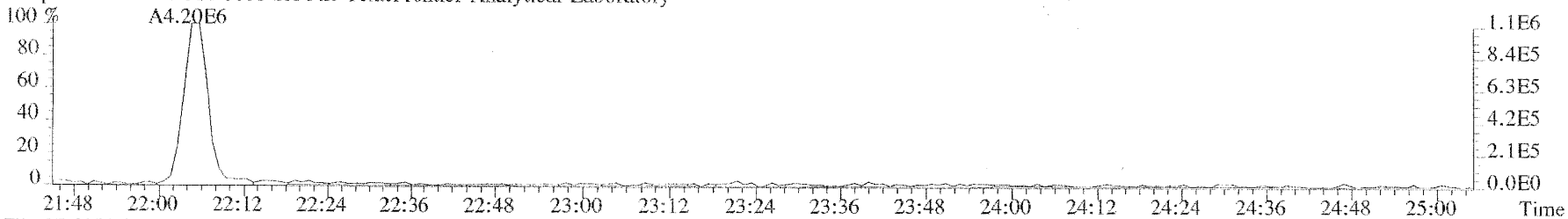
File:07NOV20Z #1-467 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



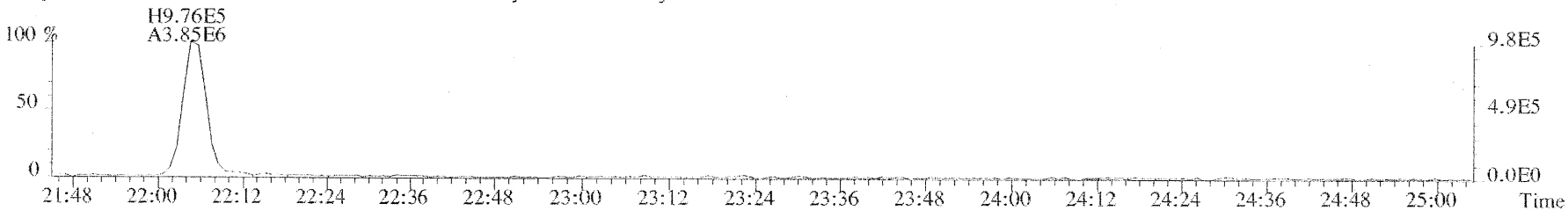
File:07NOV20Z #1-467 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



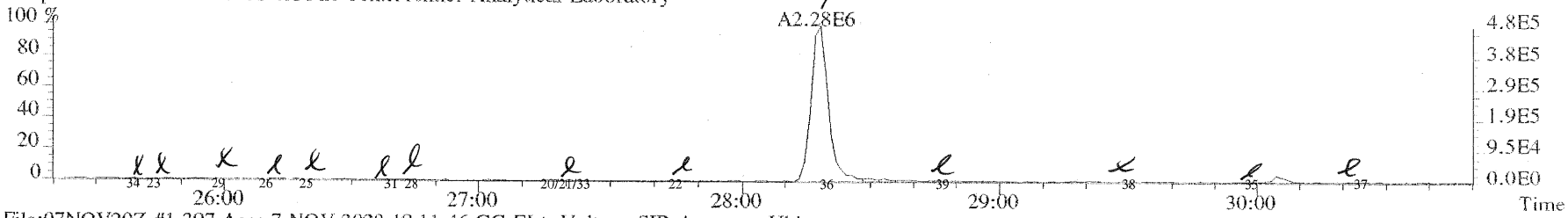
File:07NOV20Z #1-467 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



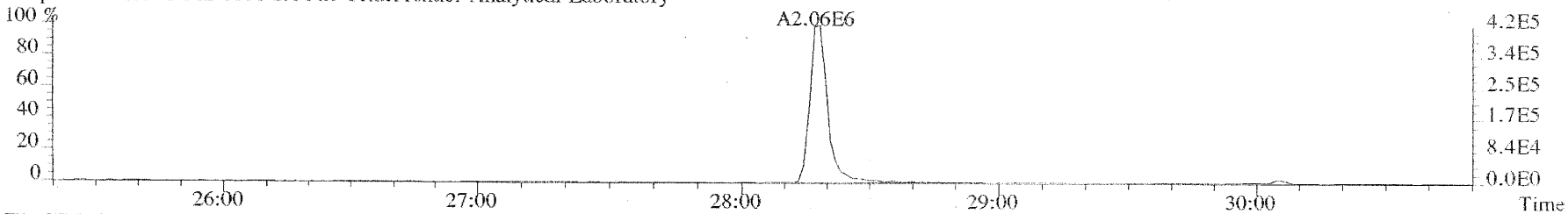
File:07NOV20Z #1-467 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



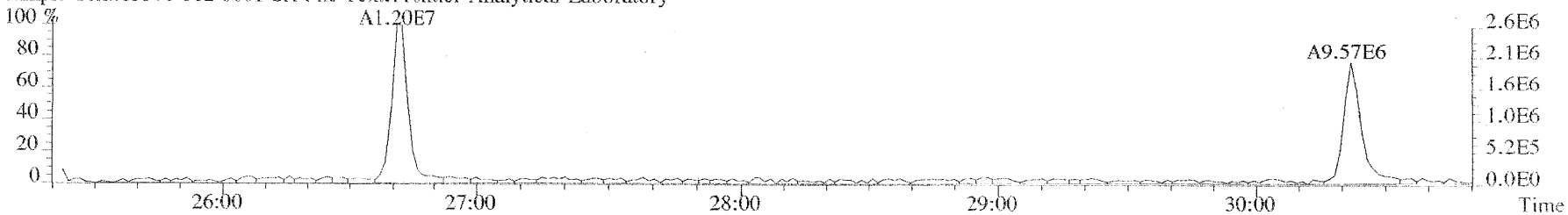
File:07NOV20Z #1-397 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



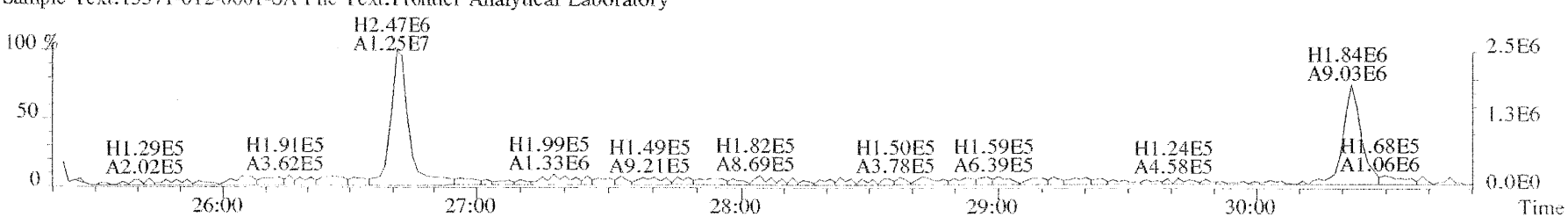
File:07NOV20Z #1-397 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



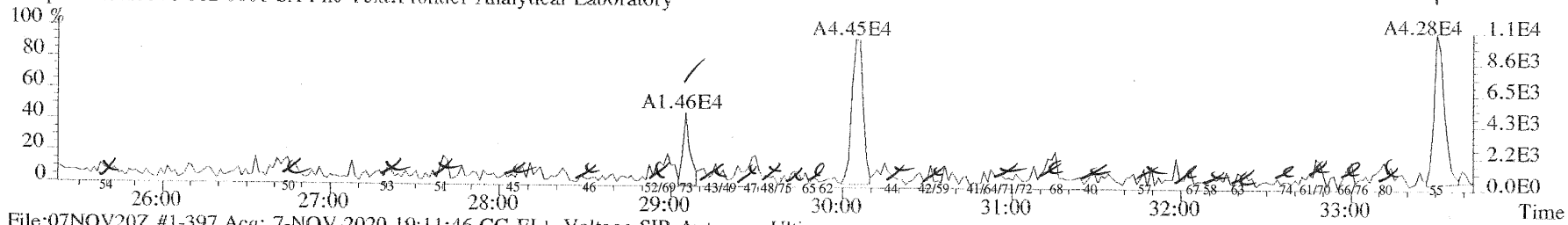
File:07NOV20Z #1-397 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



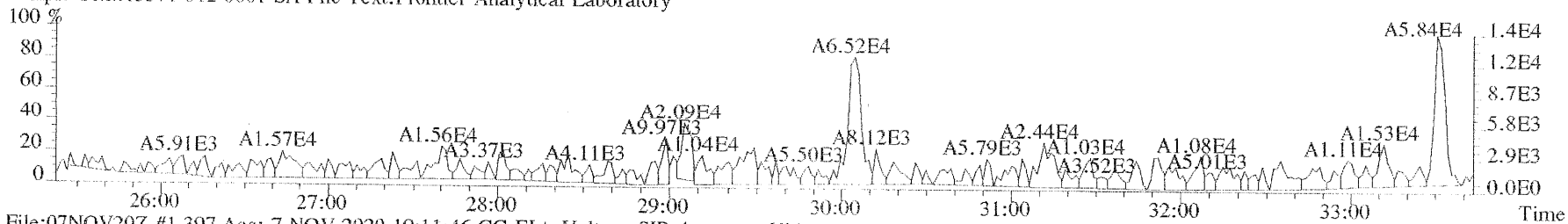
File:07NOV20Z #1-397 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



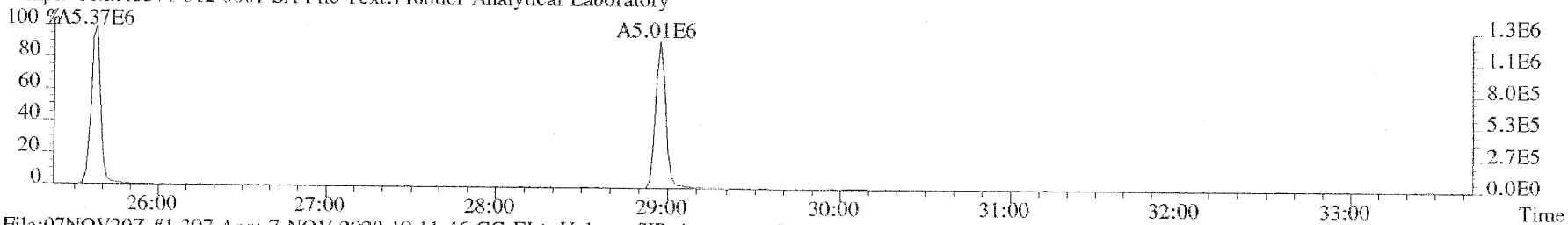
File:07NOV20Z #1-397 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



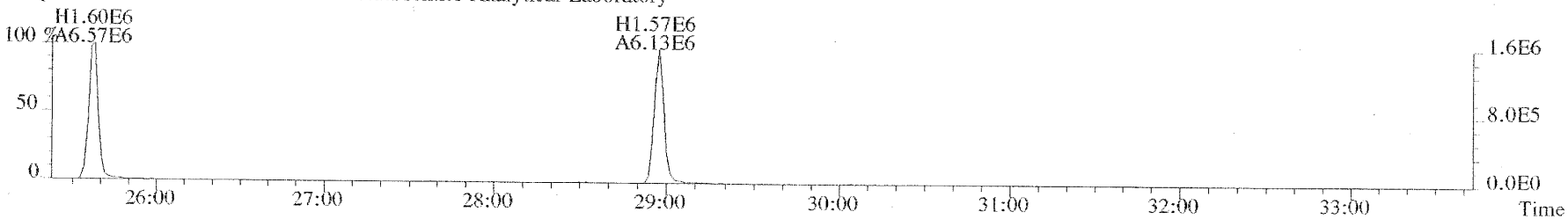
File:07NOV20Z #1-397 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



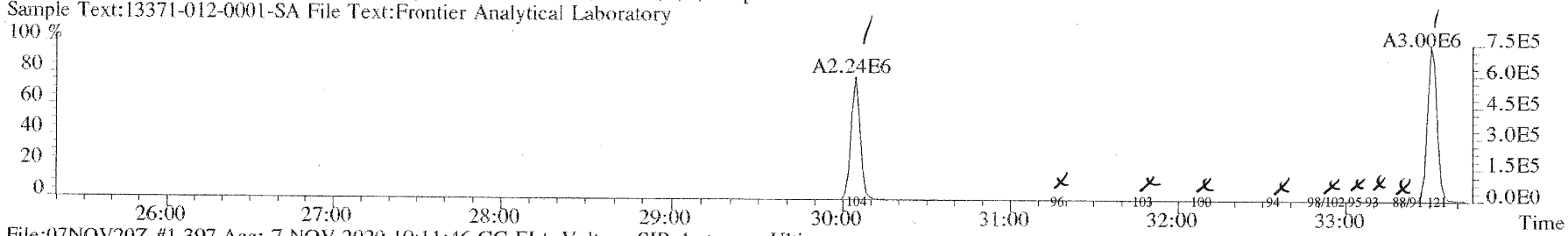
File:07NOV20Z #1-397 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



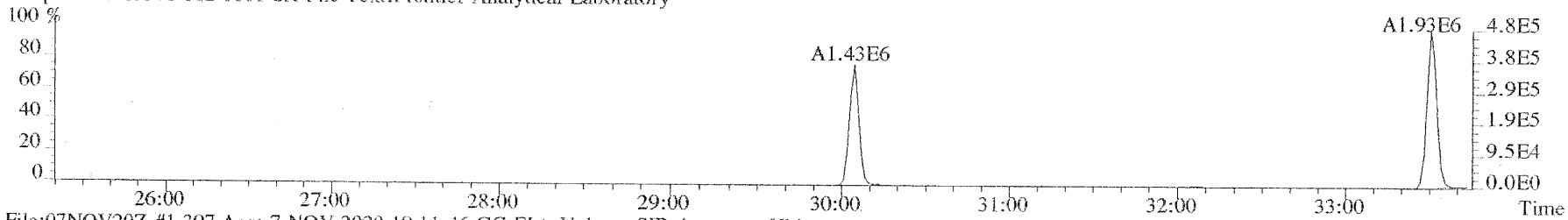
File:07NOV20Z #1-397 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



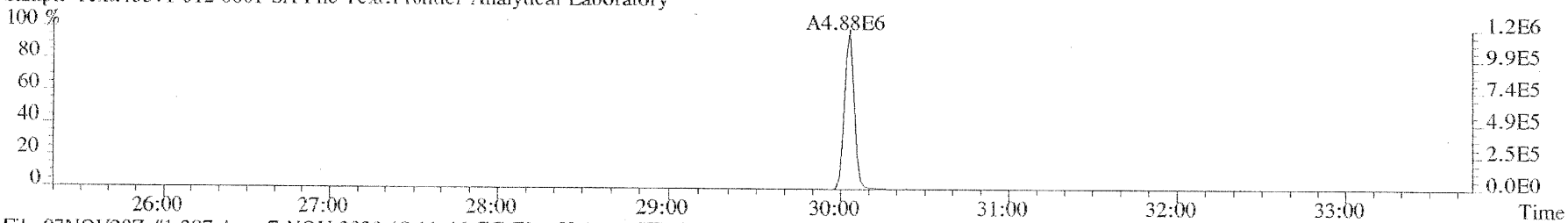
File:07NOV20Z #1-397 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



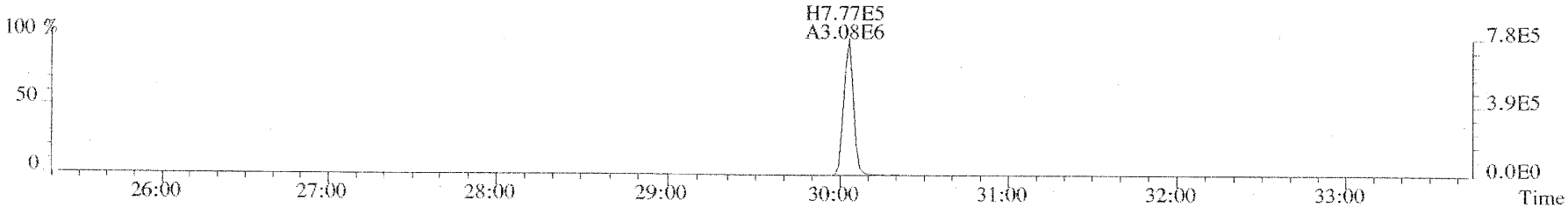
File:07NOV20Z #1-397 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



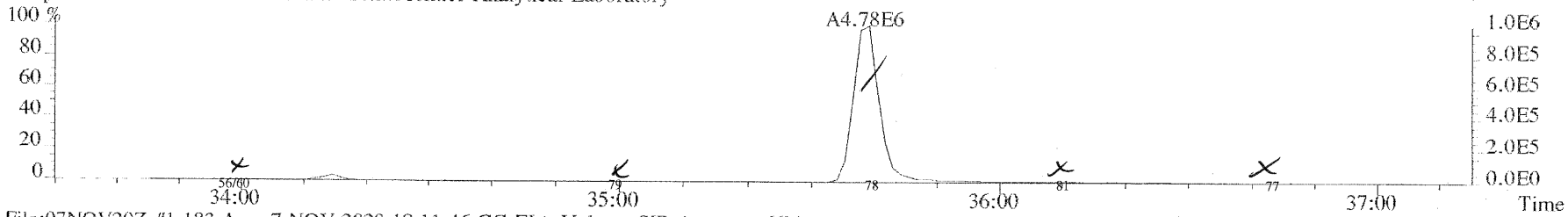
File:07NOV20Z #1-397 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



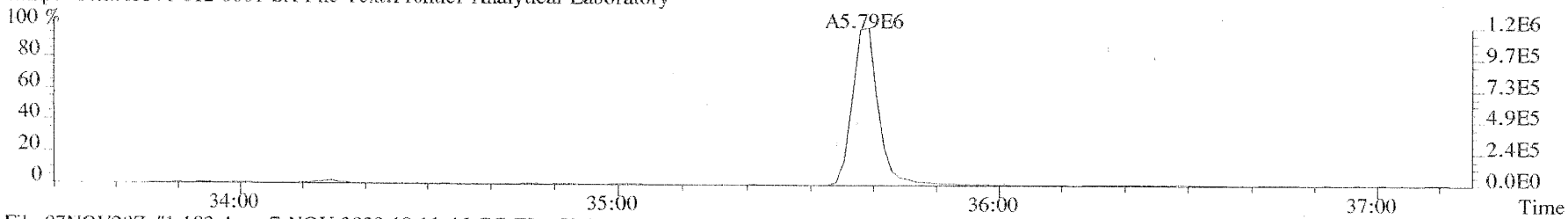
File:07NOV20Z #1-397 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



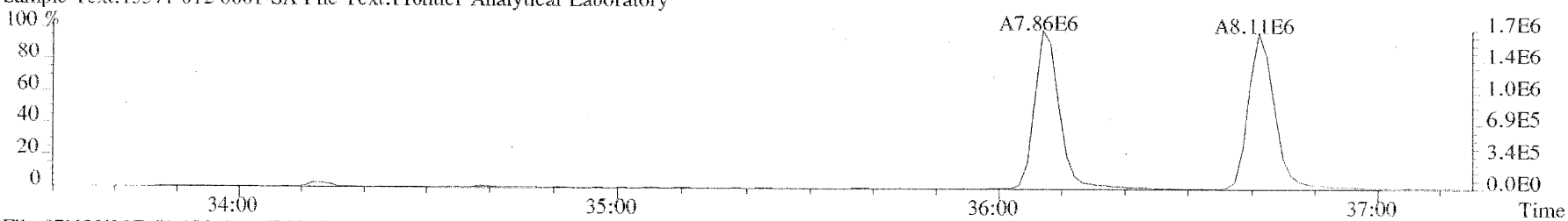
File:07NOV20Z #1-183 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



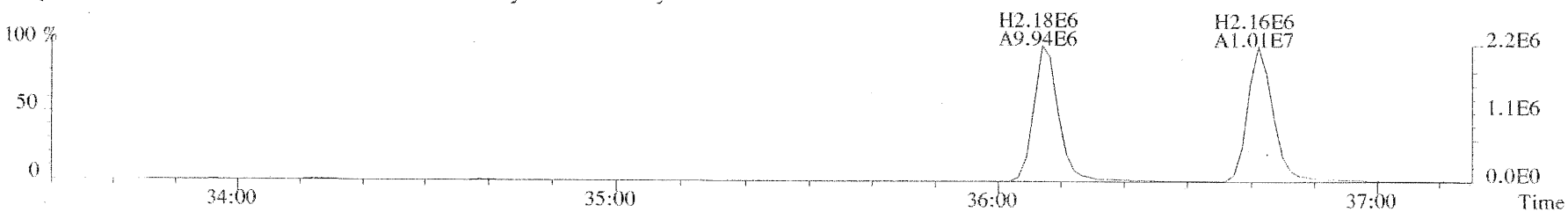
File:07NOV20Z #1-183 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



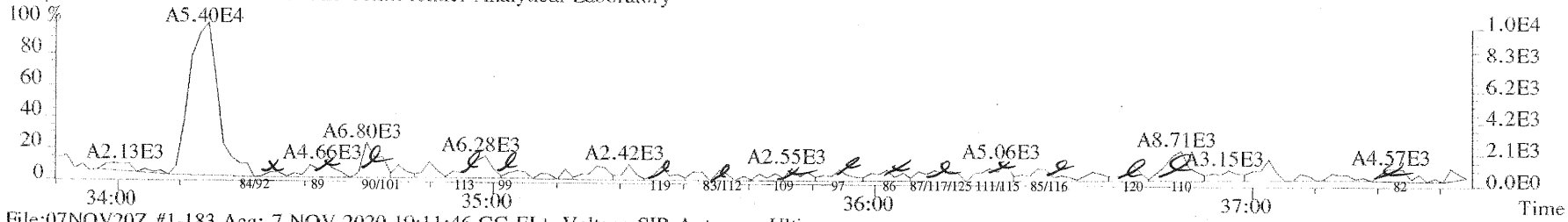
File:07NOV20Z #1-183 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



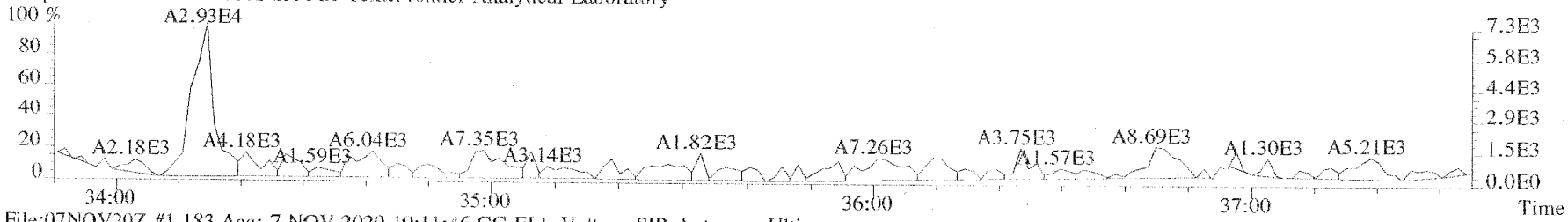
File:07NOV20Z #1-183 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



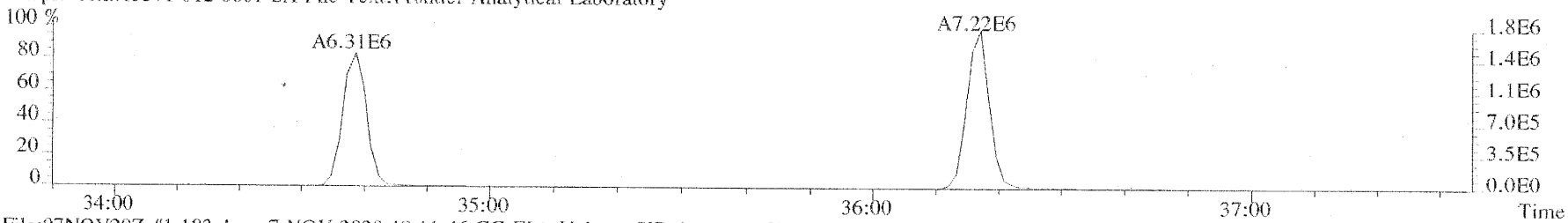
File:07NOV20Z #1-183 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



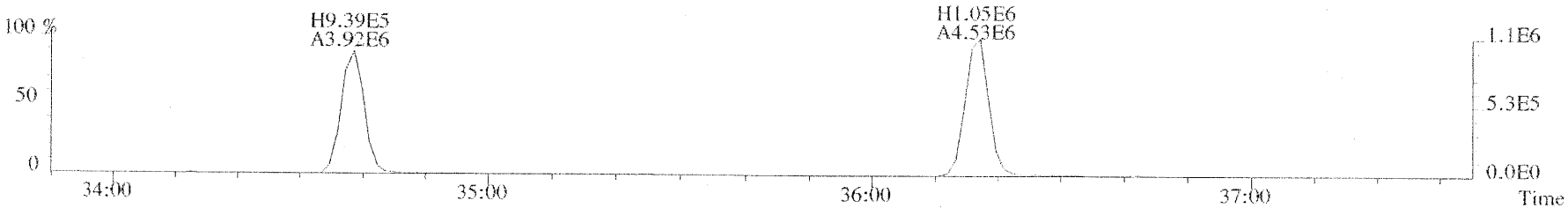
File:07NOV20Z #1-183 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



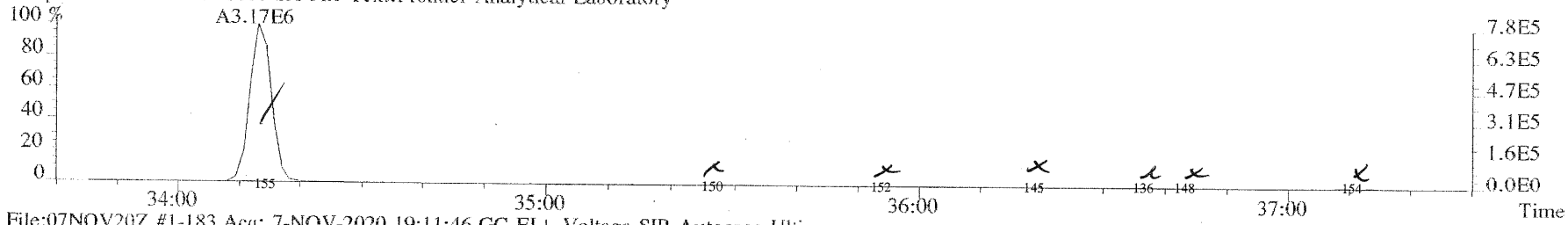
File:07NOV20Z #1-183 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



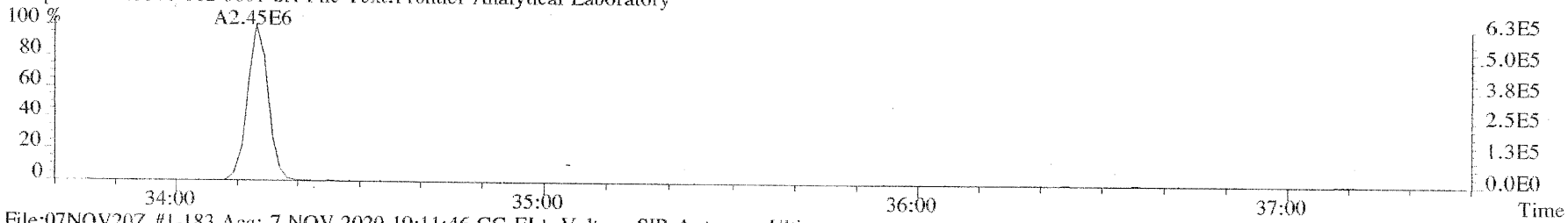
File:07NOV20Z #1-183 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



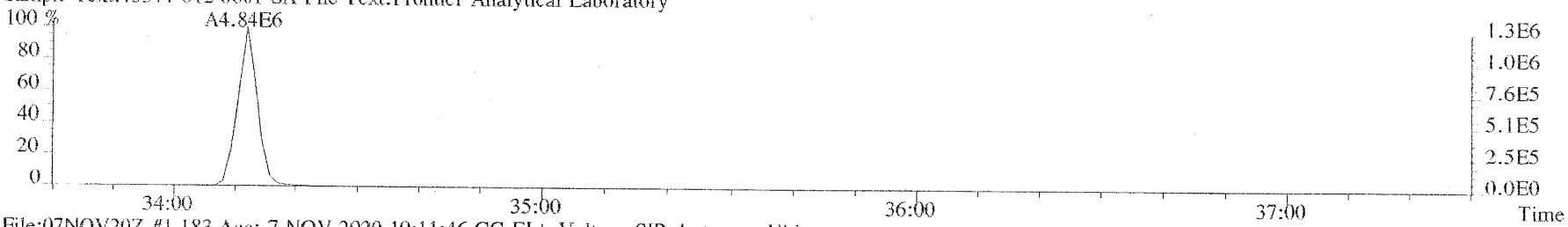
File:07NOV20Z #1-183 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



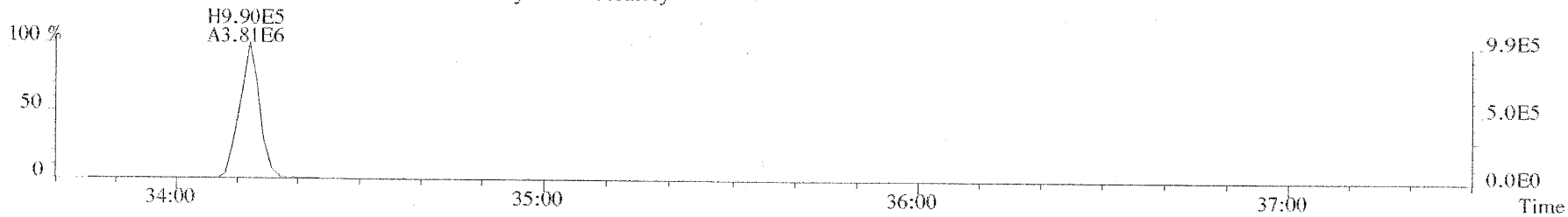
File:07NOV20Z #1-183 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



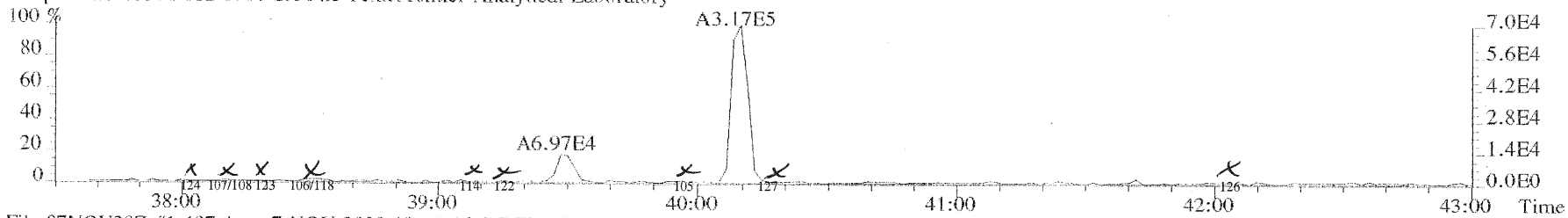
File:07NOV20Z #1-183 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



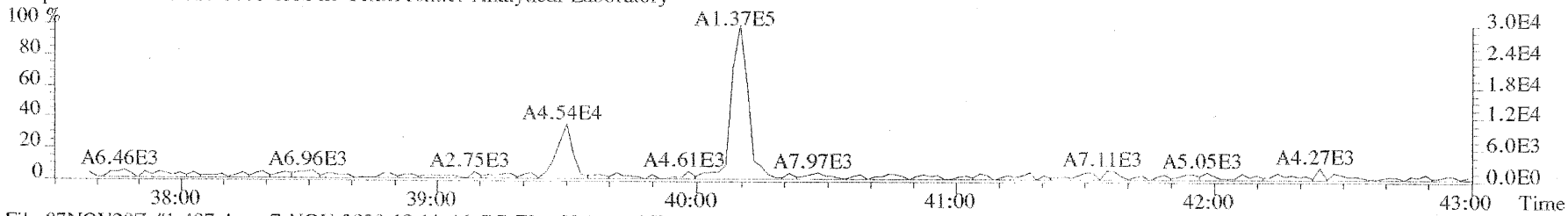
File:07NOV20Z #1-183 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



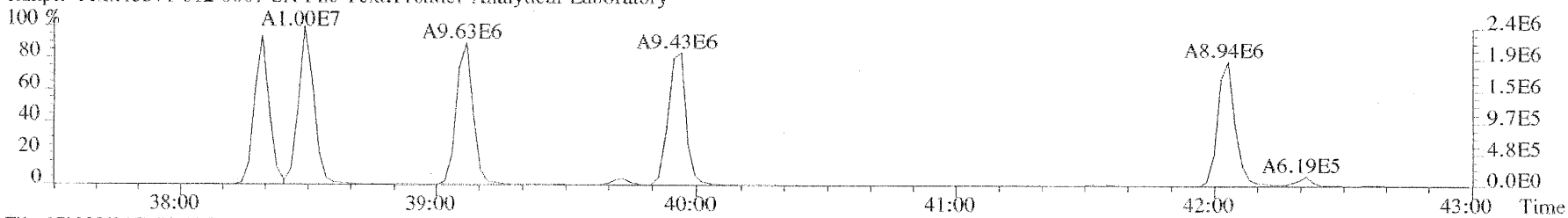
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



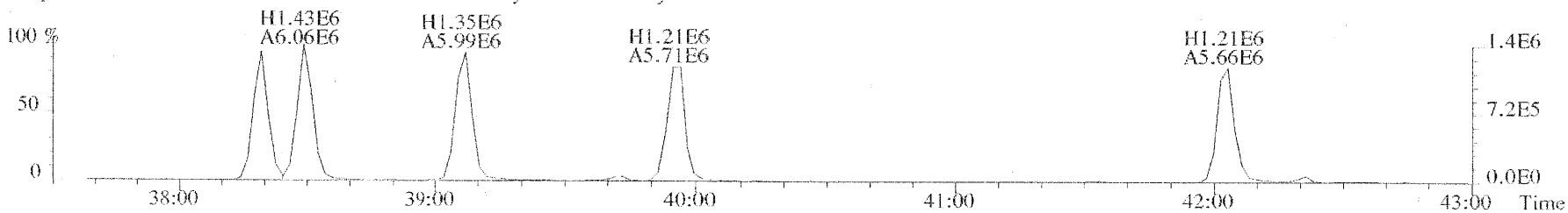
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



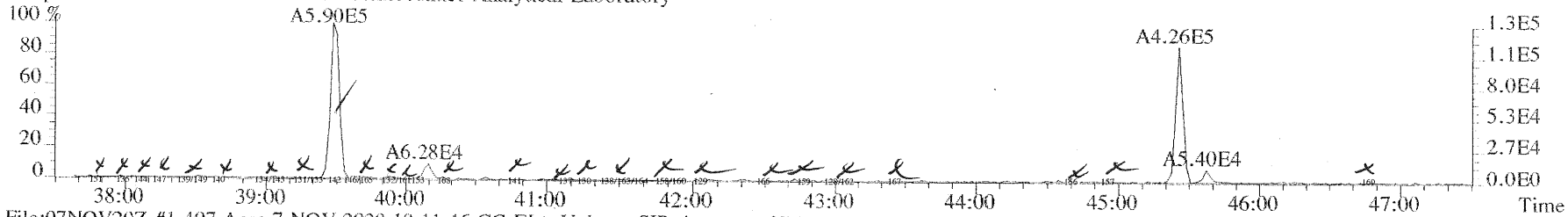
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



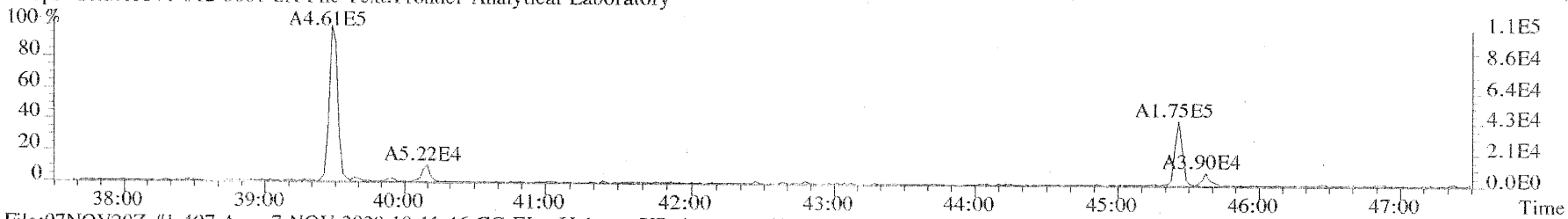
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



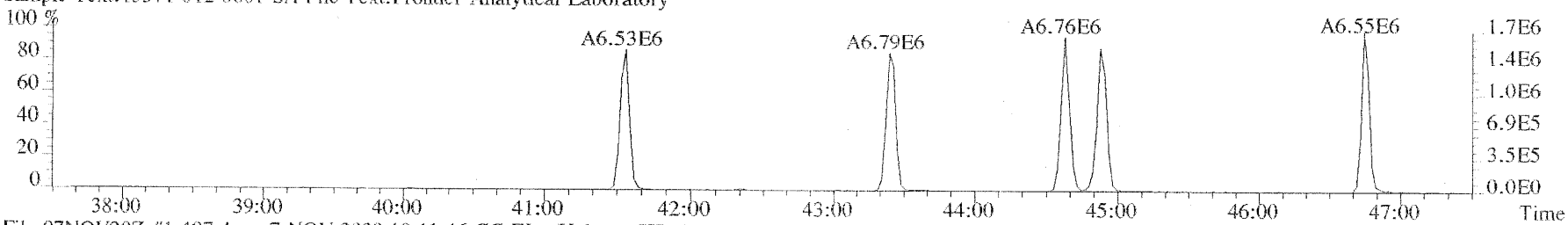
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



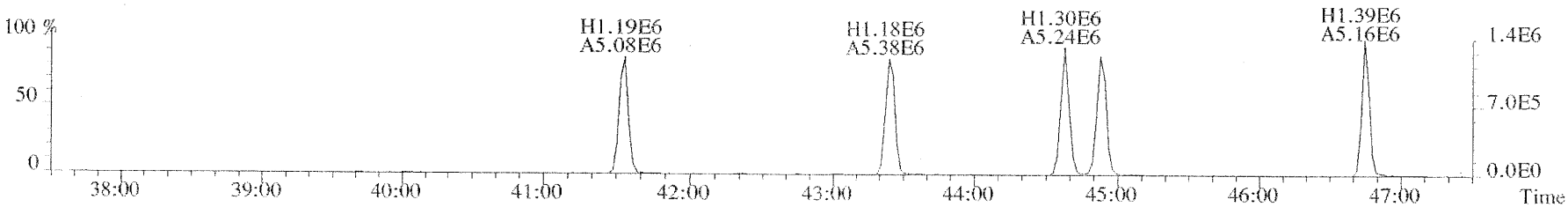
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



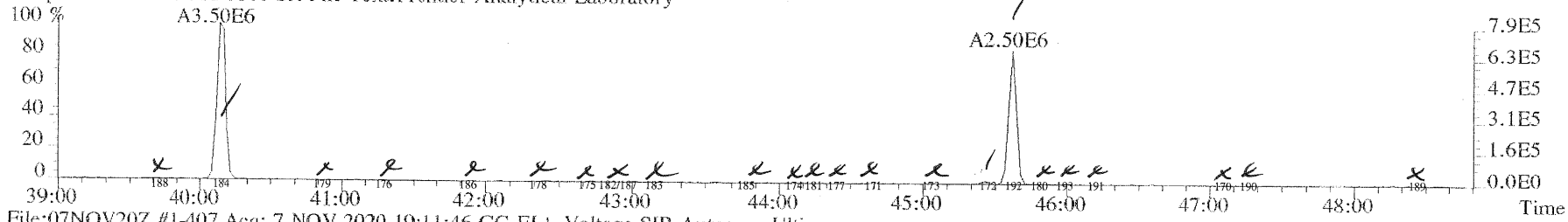
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



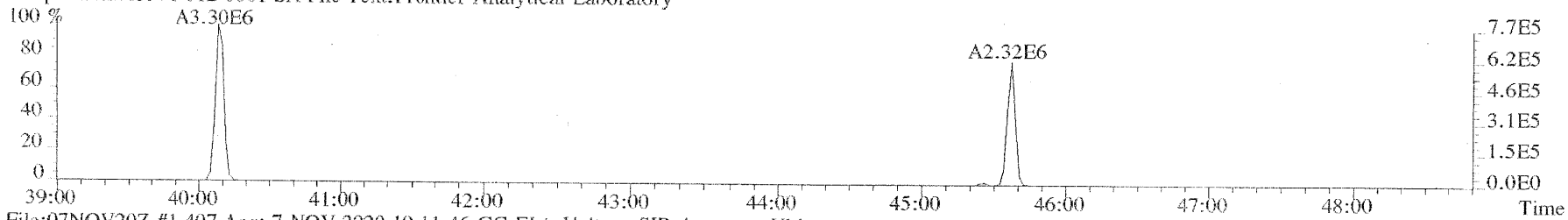
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



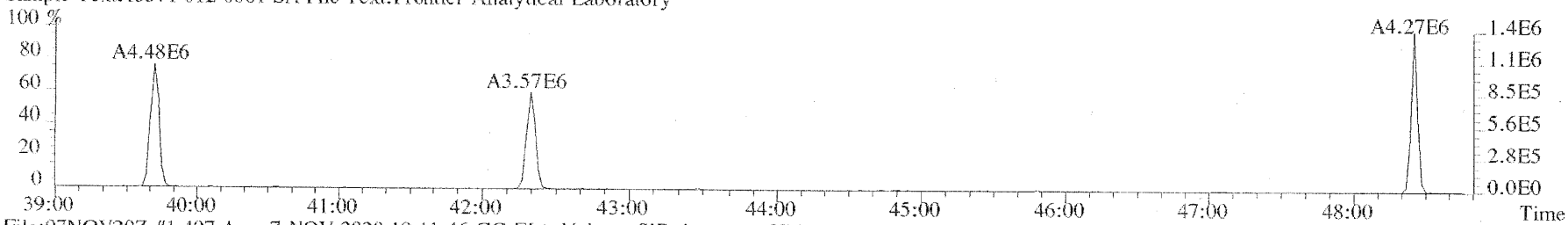
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



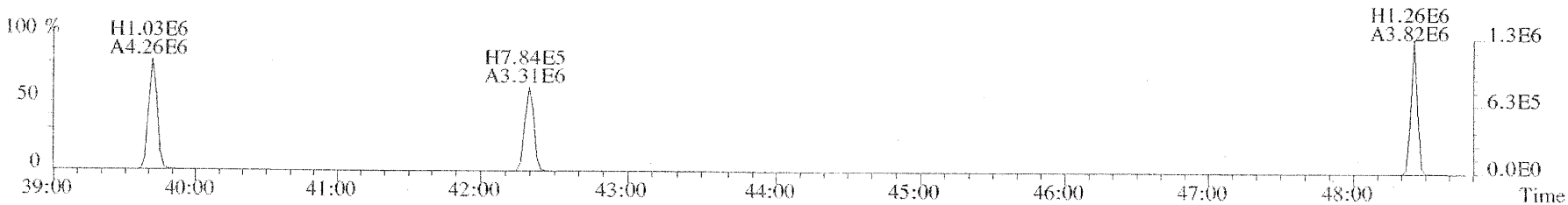
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



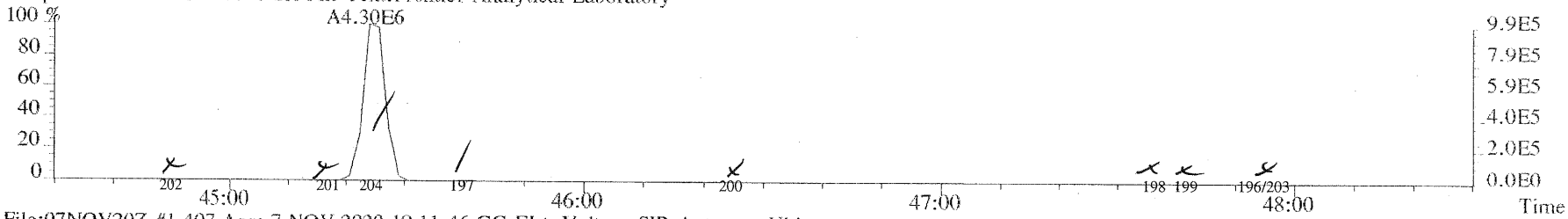
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



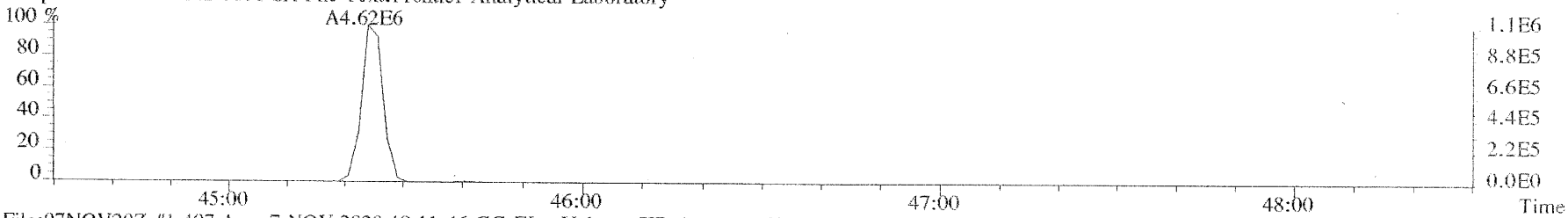
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



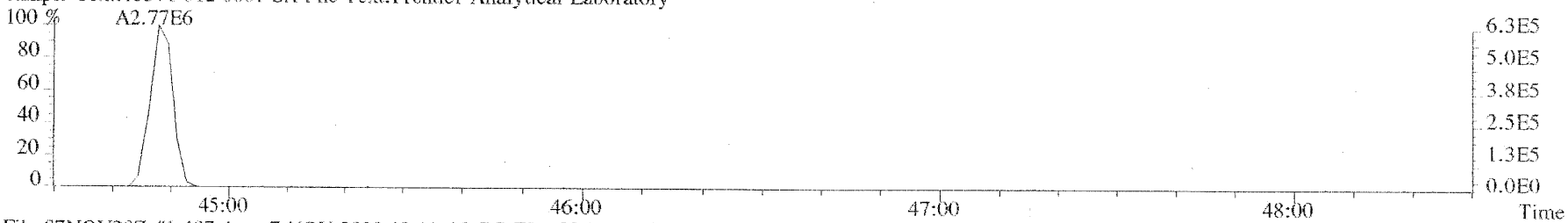
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



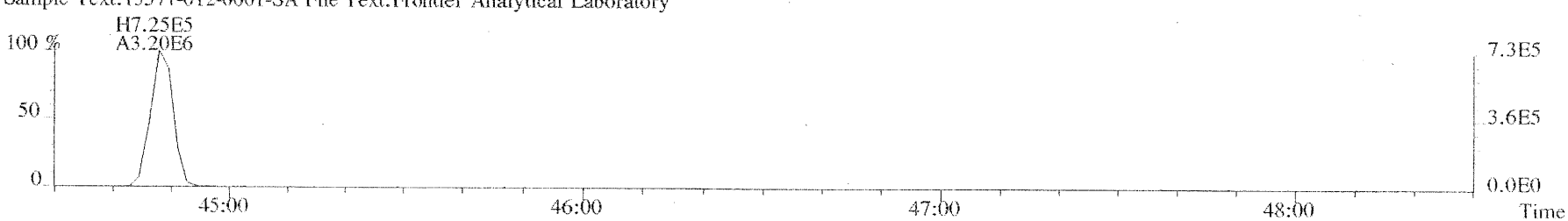
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



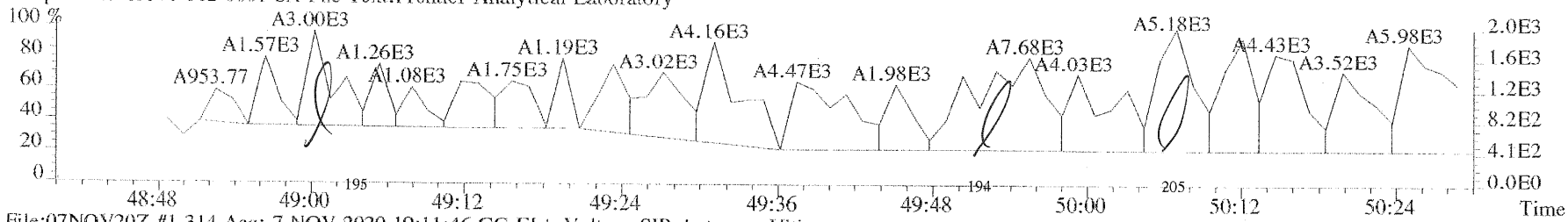
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



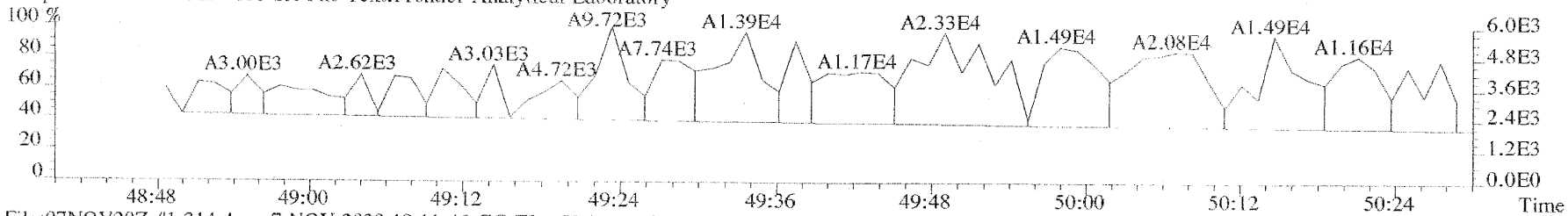
File:07NOV20Z #1-407 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



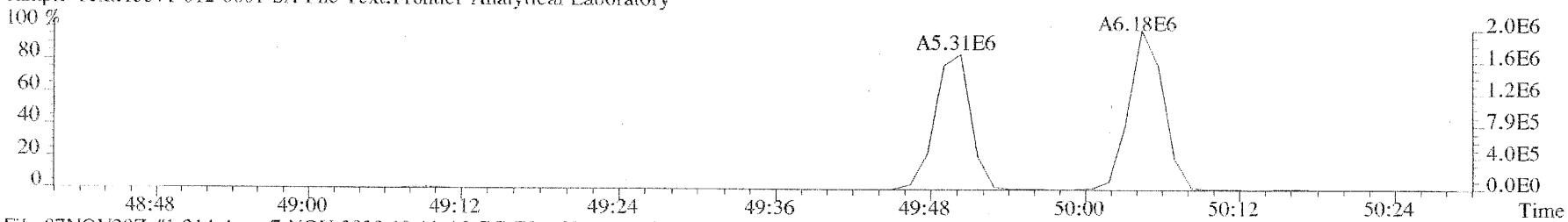
File:07NOV20Z #1-314 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



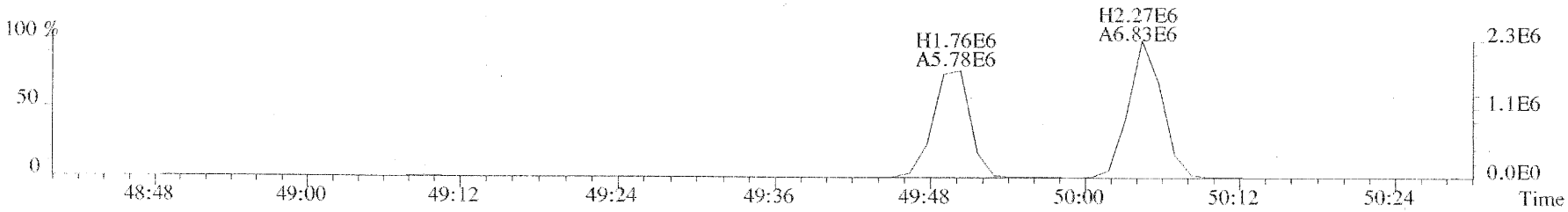
File:07NOV20Z #1-314 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



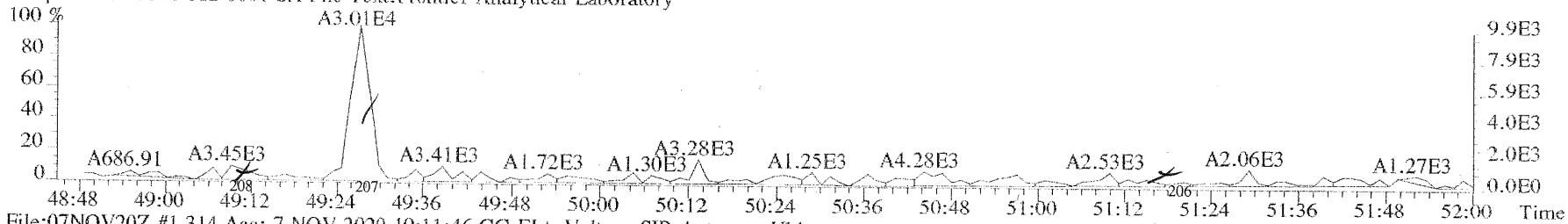
File:07NOV20Z #1-314 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



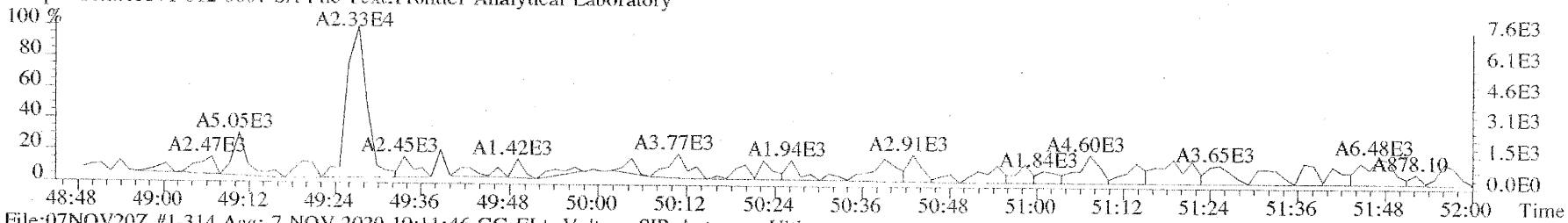
File:07NOV20Z #1-314 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



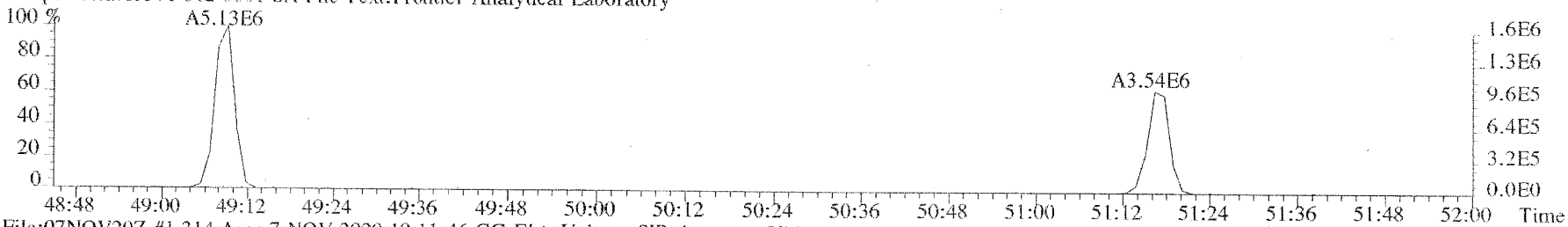
File:07NOV20Z #1-314 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



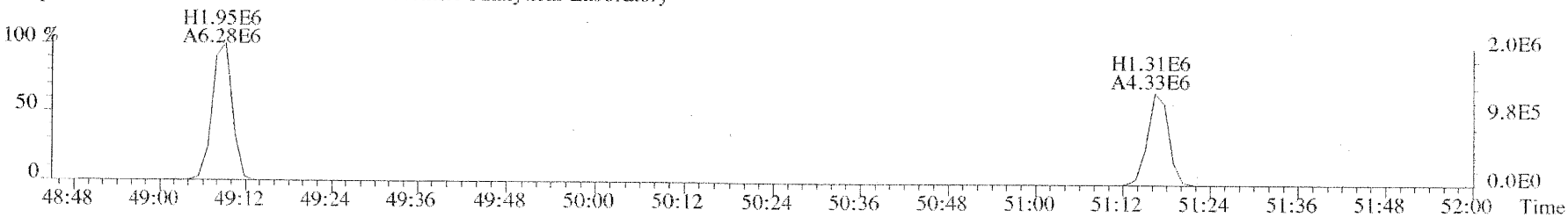
File:07NOV20Z #1-314 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



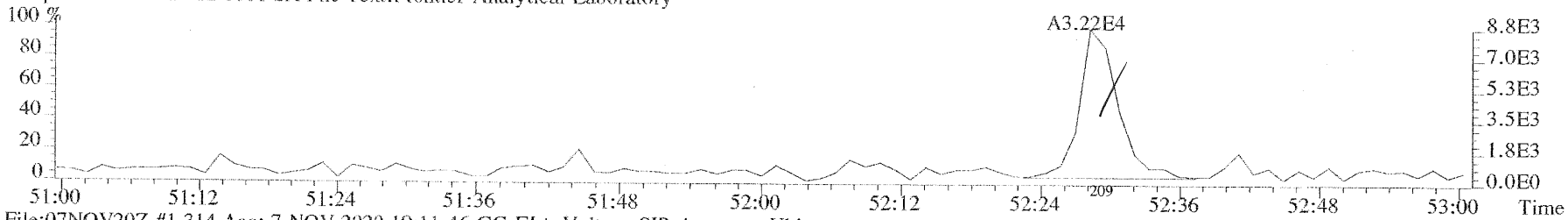
File:07NOV20Z #1-314 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



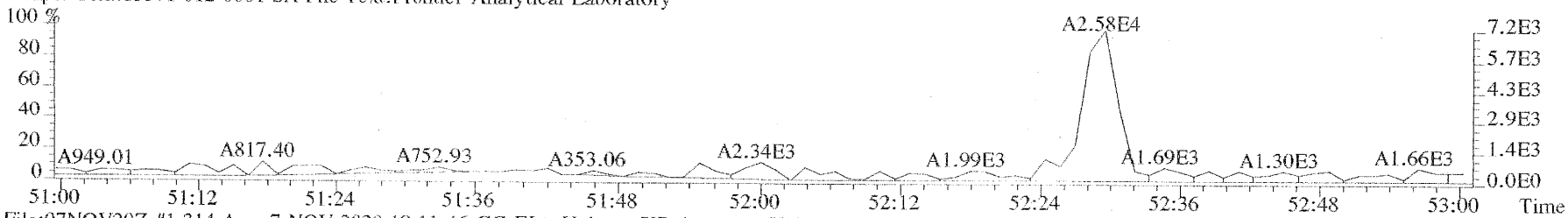
File:07NOV20Z #1-314 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



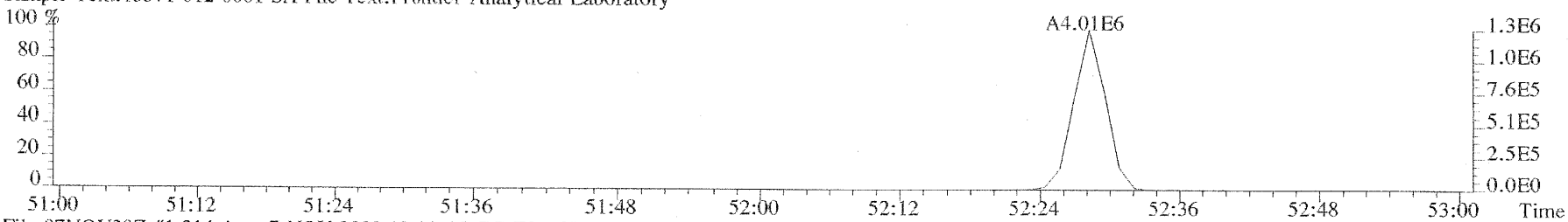
File:07NOV20Z #1-314 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



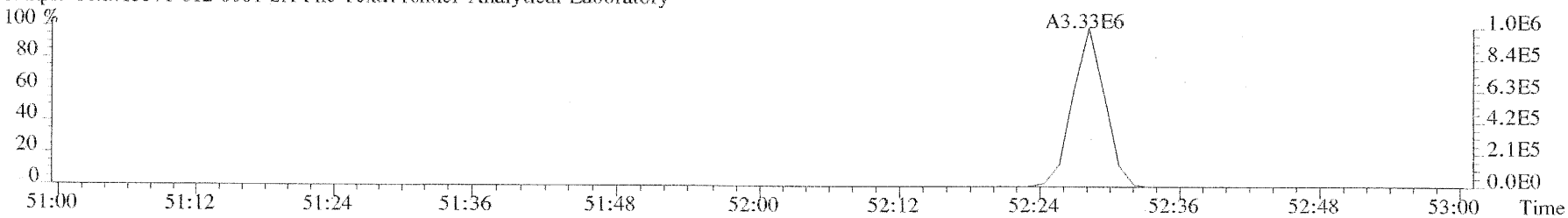
File:07NOV20Z #1-314 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



File:07NOV20Z #1-314 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



File:07NOV20Z #1-314 Acq: 7-NOV-2020 19:11:46 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:13 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:13371-012-0001-SA File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

Data Filename: 22JUL20Z

Analyte: 1668PCBFAL4-7-22-20 Cal: 1668PCBFAL4-7-22-20

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	1.21	0.0906	7.48 %	1.38	1.24	1.18	1.15	1.14	1.17
13C-PCB-1	0.90	0.0253	2.82 %	0.89	0.87	0.90	0.90	0.95	0.88
PCB-3	1.23	0.0885	7.19 %	1.38	1.28	1.21	1.17	1.19	1.15
13C-PCB-3	0.93	0.0266	2.86 %	0.93	0.89	0.93	0.92	0.96	0.95
PCB-4	1.14	0.153	13.4 %	1.42	1.20	1.12	1.03	1.05	1.02
13C-PCB-4	0.66	0.0127	1.92 %	0.65	0.64	0.66	0.66	0.68	0.67
PCB-15	1.09	0.0888	8.13 %	1.24	1.15	1.10	1.02	1.02	1.02
13C-PCB-15	1.09	0.0329	3.03 %	1.07	1.09	1.04	1.07	1.11	1.14
PCB-19	1.21	0.0859	7.10 %	1.38	1.22	1.21	1.15	1.16	1.16
13C-PCB-19	0.50	0.0118	2.35 %	0.49	0.52	0.49	0.51	0.52	0.50
13C-PCB-9	-	-	- %	-	-	-	-	-	-
PCB-37	1.14	0.0725	6.34 %	1.28	1.16	1.13	1.06	1.12	1.12
13C-PCB-37	1.64	0.0733	4.47 %	1.74	1.67	1.56	1.68	1.65	1.55
PCB-54	1.18	0.0449	3.79 %	1.24	1.23	1.18	1.18	1.17	1.11
13C-PCB-54	1.26	0.0314	2.49 %	1.29	1.24	1.23	1.29	1.29	1.24
PCB-104	1.12	0.0554	4.97 %	1.10	1.20	1.16	1.09	1.12	1.03
13C-PCB-104	1.02	0.0354	3.47 %	1.08	1.01	0.98	1.02	1.04	0.99
13C-PCB-28	1.73	0.0728	4.20 %	1.85	1.76	1.71	1.75	1.68	1.65
13C-PCB-52	-	-	- %	-	-	-	-	-	-
PCB-81	1.13	0.0617	5.45 %	1.21	1.17	1.16	1.10	1.13	1.03
13C-PCB-81	1.57	0.0793	5.05 %	1.54	1.53	1.53	1.52	1.58	1.73
PCB-77	1.10	0.0617	5.61 %	1.19	1.13	1.12	1.07	1.08	1.01
13C-PCB-77	1.61	0.0829	5.14 %	1.58	1.57	1.59	1.54	1.63	1.77
PCB-155	1.13	0.0489	4.31 %	1.21	1.17	1.14	1.09	1.12	1.08
13C-PCB-155	1.10	0.0325	2.95 %	1.05	1.13	1.11	1.13	1.09	1.11
13C-PCB-111	1.27	0.0191	1.51 %	1.25	1.28	1.30	1.26	1.28	1.25
13C-PCB-101	-	-	- %	-	-	-	-	-	-
PCB-123	1.11	0.0424	3.82 %	1.18	1.14	1.08	1.09	1.09	1.07
13C-PCB-123	1.28	0.0404	3.15 %	1.31	1.24	1.30	1.25	1.35	1.25
PCB-118	1.12	0.0635	5.66 %	1.21	1.17	1.15	1.07	1.07	1.06
13C-PCB-118	1.35	0.0382	2.82 %	1.36	1.32	1.32	1.35	1.42	1.35
PCB-114	1.13	0.0470	4.16 %	1.18	1.17	1.16	1.08	1.08	1.09
13C-PCB-114	1.29	0.0386	2.98 %	1.30	1.30	1.24	1.28	1.36	1.29
PCB-105	1.10	0.0683	6.19 %	1.24	1.09	1.10	1.07	1.06	1.07
13C-PCB-105	1.28	0.0298	2.32 %	1.32	1.30	1.28	1.25	1.25	1.29
PCB-126	1.08	0.0278	2.57 %	1.11	1.10	1.10	1.08	1.09	1.03
13C-PCB-126	1.23	0.0921	7.48 %	1.15	1.23	1.24	1.13	1.27	1.38
PCB-167	1.11	0.0641	5.78 %	1.20	1.16	1.12	1.07	1.06	1.03
13C-PCB-167	1.23	0.0588	4.79 %	1.18	1.21	1.21	1.18	1.28	1.32
PCB-156	1.13	0.0540	4.80 %	1.20	1.17	1.14	1.09	1.09	1.07
13C-PCB-156	1.19	0.0597	5.02 %	1.14	1.17	1.13	1.16	1.26	1.27
PCB-157	1.08	0.0406	3.75 %	1.15	1.08	1.11	1.06	1.05	1.04
13C-PCB-157	1.21	0.0764	6.29 %	1.14	1.19	1.16	1.17	1.28	1.34
PCB-169	1.08	0.0377	3.50 %	1.12	1.10	1.09	1.08	1.05	1.02
13C-PCB-169	1.17	0.104	8.90 %	1.07	1.15	1.10	1.12	1.23	1.35
PCB-188	1.10	0.0468	4.26 %	1.11	1.13	1.15	1.09	1.11	1.01
13C-PCB-188	1.13	0.0217	1.93 %	1.14	1.10	1.13	1.10	1.14	1.15
PCB-189	1.07	0.0736	6.88 %	1.16	1.08	1.09	1.07	1.07	0.94
13C-PCB-189	0.97	0.0907	9.40 %	0.86	0.94	0.93	0.94	0.99	1.13
PCB-202	1.03	0.0801	7.78 %	1.14	1.09	1.03	1.02	0.99	0.91
13C-PCB-202	0.96	0.0503	5.26 %	0.86	0.98	0.94	0.98	1.00	0.98
13C-PCB-178	0.78	0.0334	4.31 %	0.71	0.80	0.78	0.76	0.79	0.81
13C-PCB-138	-	-	- %	-	-	-	-	-	-

PCB-205	1.09	0.0892	8.22 %	1.20	1.13	1.12	1.07	1.06	0.93
13C-PCB-205	1.32	0.0588	4.47 %	1.31	1.28	1.25	1.29	1.35	1.42
PCB-208	1.01	0.0633	6.28 %	1.09	1.03	1.04	1.00	0.99	0.90
13C-PCB-208	1.38	0.0358	2.61 %	1.43	1.34	1.34	1.39	1.40	1.35
PCB-206	1.04	0.0680	6.54 %	1.09	1.09	1.07	1.04	1.04	0.91
13C-PCB-206	0.94	0.0476	5.08 %	0.99	0.91	0.89	0.89	0.95	1.00
PCB-209	1.13	0.117	10.4 %	1.31	1.11	1.17	1.11	1.12	0.95
13C-PCB-209	1.10	0.0679	6.16 %	0.99	1.10	1.11	1.09	1.15	1.19
13C-PCB-194	-	-	- %	-	-	-	-	-	-

Analyst: [illegible] Date: 7/28/01

Run #1 Filename 22JUL20Z S: 1 Acquired: 22-JUL-20 08:04:10 Cal: 1668PCBFAL4-7-22-20
Client ID: ST072220Z0 Analyte: FAL ID: 1668 CS099 R181022A

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	0.20	3.45e+05	3.04	y	14:32	-	1.38	y
2	IS/RT	13C-PCB-1	100.00	1.25e+08	3.19	y	14:30	-	0.889	y
3	Unk	PCB-3	0.20	3.59e+05	3.03	y	16:57	-	1.38	y
4	IS/RT	13C-PCB-3	100.00	1.30e+08	3.27	y	16:56	-	0.925	y
5	Unk	PCB-4	0.20	2.61e+05	1.34	y	18:12	-	1.42	y
6	IS/RT	13C-PCB-4	100.00	9.17e+07	1.57	y	18:10	-	0.654	y
7	Unk	PCB-15	0.20	3.72e+05	1.41	y	23:42	-	1.24	y
8	IS/RT	13C-PCB-15	100.00	1.50e+08	1.58	y	23:41	-	1.07	y
9	Unk	PCB-19	0.20	1.91e+05	1.11	y	22:05	-	1.38	y
10	IS/RT	13C-PCB-19	100.00	6.93e+07	1.07	y	22:03	-	0.494	y
11	RS	13C-PCB-9	100.00	1.40e+08	1.60	y	19:51	1.40e+06	-	n
12	Unk	PCB-37	0.20	3.10e+05	1.07	y	30:20	-	1.28	y
13	IS	13C-PCB-37	100.00	1.21e+08	1.07	y	30:18	-	1.74	y
14	Unk	PCB-54	0.20	2.23e+05	0.71	y	25:36	-	1.24	y
15	IS/RT	13C-PCB-54	100.00	9.01e+07	0.79	y	25:35	-	1.29	y
16	Unk	PCB-104	0.20	1.65e+05	1.65	y	30:03	-	1.10	y
17	IS	13C-PCB-104	100.00	7.51e+07	1.60	y	30:01	-	1.08	y
18	C/Up	13C-PCB-28	100.00	1.29e+08	1.05	y	26:38	-	1.85	y
19	RS	13C-PCB-52	100.00	6.97e+07	0.78	y	28:56	6.97e+05	-	n
20	Unk	PCB-81	0.20	2.43e+05	0.79	y	36:06	-	1.21	y
21	IS	13C-PCB-81	100.00	1.01e+08	0.80	y	36:05	-	1.54	y
22	Unk	PCB-77	0.20	2.45e+05	0.70	y	36:40	-	1.19	y
23	IS/RT	13C-PCB-77	100.00	1.03e+08	0.81	y	36:39	-	1.58	y
24	Unk	PCB-155	0.20	1.65e+05	1.21	y	34:12	-	1.21	y
25	IS	13C-PCB-155	100.00	6.85e+07	1.34	y	34:11	-	1.05	y
26	C/Up	13C-PCB-111	100.00	8.19e+07	1.64	y	36:15	-	1.25	y
27	RS	13C-PCB-101	100.00	6.54e+07	1.65	y	34:36	6.54e+05	-	n
28	Unk	PCB-123	0.20	2.03e+05	1.64	y	38:19	-	1.18	y
29	IS	13C-PCB-123	100.00	8.58e+07	1.59	y	38:17	-	1.31	y
30	Unk	PCB-118	0.20	2.17e+05	1.56	y	38:29	-	1.21	y
31	IS	13C-PCB-118	100.00	8.95e+07	1.61	y	38:27	-	1.36	y
32	Unk	PCB-114	0.20	2.03e+05	1.53	y	39:07	-	1.18	y
33	IS	13C-PCB-114	100.00	8.55e+07	1.61	y	39:05	-	1.30	y
34	Unk	PCB-105	0.20	2.16e+05	1.33	y	39:54	-	1.24	y
35	IS	13C-PCB-105	100.00	8.70e+07	1.57	y	39:53	-	1.32	y
36	Unk	PCB-126	0.20	1.67e+05	1.67	y	42:01	-	1.11	y
37	IS	13C-PCB-126	100.00	7.54e+07	1.59	y	41:60	-	1.15	y
38	Unk	PCB-167	0.20	1.85e+05	1.18	y	43:23	-	1.20	y
39	IS	13C-PCB-167	100.00	7.72e+07	1.29	y	43:23	-	1.18	y
40	Unk	PCB-156	0.20	1.81e+05	1.13	y	44:38	-	1.20	y
41	IS	13C-PCB-156	100.00	7.51e+07	1.28	y	44:36	-	1.14	y
42	Unk	PCB-157	0.20	1.73e+05	1.14	y	44:52	-	1.15	y
43	IS	13C-PCB-157	100.00	7.51e+07	1.29	y	44:51	-	1.14	y
44	Unk	PCB-169	0.20	1.57e+05	1.24	y	46:44	-	1.12	y
45	IS	13C-PCB-169	100.00	7.01e+07	1.28	y	46:43	-	1.07	y
46	Unk	PCB-188	0.20	1.66e+05	1.18	y	39:41	-	1.11	y
47	IS	13C-PCB-188	100.00	7.49e+07	1.07	y	39:41	-	1.14	y
48	Unk	PCB-189	0.20	1.31e+05	1.12	y	48:25	-	1.16	y
49	IS	13C-PCB-189	100.00	5.64e+07	1.05	y	48:23	-	0.858	y
50	Unk	PCB-202	0.20	1.29e+05	0.93	y	44:49	-	1.14	y
51	IS	13C-PCB-202	100.00	5.65e+07	0.90	y	44:47	-	0.859	y
52	C/Up	13C-PCB-178	100.00	4.70e+07	1.07	y	42:19	-	0.715	y
53	RS	13C-PCB-138	100.00	6.57e+07	1.28	y	41:32	6.57e+05	-	n

54	Unk	PCB-205	0.20	1.52e+05	0.99	y	50:03	-	1.20	y
55	IS	13C-PCB-205	100.00	6.36e+07	0.89	y	50:02	-	1.31	y
56	Unk	PCB-208	0.20	1.50e+05	1.24	y	49:08	-	1.09	y
57	IS	13C-PCB-208	100.00	6.92e+07	0.80	y	49:07	-	1.43	y
58	Unk	PCB-206	0.20	1.04e+05	1.18	y	51:15	-	1.09	y
59	IS	13C-PCB-206	100.00	4.77e+07	0.78	y	51:14	-	0.986	y
60	Unk	PCB-209	0.20	1.25e+05	1.22	y	52:26	-	1.31	y
61	IS	13C-PCB-209	100.00	4.77e+07	1.19	y	52:25	-	0.985	y
62	RS	13C-PCB-194	100.00	4.84e+07	0.90	y	49:48	4.84e+05	-	n

Analyst: _____ Date: 7/28/20

Run #2 Filename 22JUL20Z S: 2 Acquired: 22-JUL-20 09:02:30 Cal: 1668PCBFAL4-7-22-20
Client ID: ST072220Z1 Analyte: FAL ID: 1668 CS199 R170213A

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	1.00	9.47e+05	3.10	y	14:32	-	1.24	y
2	IS/RT	13C-PCB-1	100.00	7.65e+07	3.20	y	14:32	-	0.874	y
3	Unk	PCB-3	1.00	9.95e+05	3.18	y	16:57	-	1.28	y
4	IS/RT	13C-PCB-3	100.00	7.75e+07	3.21	y	16:57	-	0.885	y
5	Unk	PCB-4	1.00	6.70e+05	1.36	y	18:12	-	1.20	y
6	IS/RT	13C-PCB-4	100.00	5.60e+07	1.58	y	18:11	-	0.639	y
7	Unk	PCB-15	1.00	1.10e+06	1.39	y	23:42	-	1.15	y
8	IS/RT	13C-PCB-15	100.00	9.58e+07	1.58	y	23:41	-	1.09	y
9	Unk	PCB-19	1.00	5.52e+05	1.05	y	22:05	-	1.22	y
10	IS/RT	13C-PCB-19	100.00	4.54e+07	1.07	y	22:04	-	0.518	y
11	RS	13C-PCB-9	100.00	8.76e+07	1.59	y	19:51	8.76e+05	-	n
12	Unk	PCB-37	1.00	8.91e+05	1.06	y	30:20	-	1.16	y
13	IS	13C-PCB-37	100.00	7.71e+07	1.05	y	30:19	-	1.67	y
14	Unk	PCB-54	1.00	7.00e+05	0.82	y	25:37	-	1.23	y
15	IS/RT	13C-PCB-54	100.00	5.71e+07	0.80	y	25:35	-	1.24	y
16	Unk	PCB-104	1.00	5.59e+05	1.62	y	30:02	-	1.20	y
17	IS	13C-PCB-104	100.00	4.68e+07	1.59	y	30:01	-	1.01	y
18	C/Up	13C-PCB-28	100.00	8.11e+07	1.05	y	26:40	-	1.76	y
19	RS	13C-PCB-52	100.00	4.62e+07	0.78	y	28:55	4.62e+05	-	n
20	Unk	PCB-81	1.00	7.49e+05	0.76	y	36:06	-	1.17	y
21	IS	13C-PCB-81	100.00	6.40e+07	0.80	y	36:05	-	1.53	y
22	Unk	PCB-77	1.00	7.47e+05	0.81	y	36:39	-	1.13	y
23	IS/RT	13C-PCB-77	100.00	6.59e+07	0.80	y	36:38	-	1.57	y
24	Unk	PCB-155	1.00	5.57e+05	1.27	y	34:12	-	1.17	y
25	IS	13C-PCB-155	100.00	4.75e+07	1.33	y	34:11	-	1.13	y
26	C/Up	13C-PCB-111	100.00	5.37e+07	1.61	y	36:15	-	1.28	y
27	RS	13C-PCB-101	100.00	4.19e+07	1.63	y	34:36	4.19e+05	-	n
28	Unk	PCB-123	1.00	5.98e+05	1.65	y	38:17	-	1.14	y
29	IS	13C-PCB-123	100.00	5.25e+07	1.59	y	38:17	-	1.24	y
30	Unk	PCB-118	1.00	6.52e+05	1.71	y	38:27	-	1.17	y
31	IS	13C-PCB-118	100.00	5.59e+07	1.59	y	38:27	-	1.32	y
32	Unk	PCB-114	1.00	6.40e+05	1.57	y	39:05	-	1.17	y
33	IS	13C-PCB-114	100.00	5.47e+07	1.59	y	39:04	-	1.30	y
34	Unk	PCB-105	1.00	5.98e+05	1.54	y	39:55	-	1.09	y
35	IS	13C-PCB-105	100.00	5.50e+07	1.62	y	39:53	-	1.30	y
36	Unk	PCB-126	1.00	5.71e+05	1.51	y	41:60	-	1.10	y
37	IS	13C-PCB-126	100.00	5.18e+07	1.60	y	41:60	-	1.23	y
38	Unk	PCB-167	1.00	5.92e+05	1.30	y	43:22	-	1.16	y
39	IS	13C-PCB-167	100.00	5.10e+07	1.28	y	43:22	-	1.21	y
40	Unk	PCB-156	1.00	5.81e+05	1.27	y	44:36	-	1.17	y
41	IS	13C-PCB-156	100.00	4.96e+07	1.29	y	44:34	-	1.17	y
42	Unk	PCB-157	1.00	5.45e+05	1.27	y	44:52	-	1.08	y
43	IS	13C-PCB-157	100.00	5.03e+07	1.30	y	44:51	-	1.19	y
44	Unk	PCB-169	1.00	5.33e+05	1.22	y	46:43	-	1.10	y
45	IS	13C-PCB-169	100.00	4.85e+07	1.27	y	46:43	-	1.15	y
46	Unk	PCB-188	1.00	5.25e+05	1.11	y	39:41	-	1.13	y
47	IS	13C-PCB-188	100.00	4.66e+07	1.07	y	39:40	-	1.10	y
48	Unk	PCB-189	1.00	4.29e+05	1.08	y	48:23	-	1.08	y
49	IS	13C-PCB-189	100.00	3.99e+07	1.06	y	48:23	-	0.944	y
50	Unk	PCB-202	1.00	4.51e+05	0.85	y	44:48	-	1.09	y
51	IS	13C-PCB-202	100.00	4.14e+07	0.91	y	44:46	-	0.981	y
52	C/Up	13C-PCB-178	100.00	3.37e+07	1.07	y	42:18	-	0.797	y
53	RS	13C-PCB-138	100.00	4.22e+07	1.29	y	41:30	4.22e+05	-	n

54	Unk	PCB-205	1.00	4.80e+05	0.86	y	50:04	-	1.13	y	
55	IS	13C-PCB-205	100.00	4.24e+07	0.90	y	50:02	-	1.28	y	
56	Unk	PCB-208	1.00	4.59e+05	1.27	y	49:07	-	1.03	y	
57	IS	13C-PCB-208	100.00	4.45e+07	0.80	y	49:07	-	1.34	y	
58	Unk	PCB-206	1.00	3.28e+05	1.34	y	51:14	-	1.09	y	
59	IS	13C-PCB-206	100.00	3.00e+07	0.80	y	51:14	-	0.907	y	
60	Unk	PCB-209	1.00	4.02e+05	1.07	y	52:25	-	1.11	y	
61	IS	13C-PCB-209	100.00	3.64e+07	1.20	y	52:25	-	1.10	y	
62	RS	13C-PCB-194	100.00	3.31e+07	0.91	y	49:47	3.31e+05	-	n	

Analyst: [illegible] Date: 7/28/20

Run #3 Filename 22JUL20Z S: 3 Acquired: 22-JUL-20 10:00:51 Cal: 1668PCBFAL4-7-22-20
Client ID: ST072220Z2 Analyte: FAL ID: 1668 CS299 R170213B

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	5.00	4.71e+06	3.12	y	14:32	-	1.18	y
2	IS/RT	13C-PCB-1	100.00	8.00e+07	3.21	y	14:31	-	0.903	y
3	Unk	PCB-3	5.00	5.01e+06	3.05	y	16:57	-	1.21	y
4	IS/RT	13C-PCB-3	100.00	8.27e+07	3.23	y	16:56	-	0.934	y
5	Unk	PCB-4	5.00	3.26e+06	1.38	y	18:12	-	1.12	y
6	IS/RT	13C-PCB-4	100.00	5.84e+07	1.58	y	18:11	-	0.659	y
7	Unk	PCB-15	5.00	5.08e+06	1.41	y	23:43	-	1.10	y
8	IS/RT	13C-PCB-15	100.00	9.25e+07	1.59	y	23:41	-	1.04	y
9	Unk	PCB-19	5.00	2.61e+06	1.06	y	22:05	-	1.21	y
10	IS/RT	13C-PCB-19	100.00	4.33e+07	1.09	y	22:04	-	0.489	y
11	RS	13C-PCB-9	100.00	8.86e+07	1.57	y	19:51	8.86e+05	-	n
12	Unk	PCB-37	5.00	4.07e+06	1.06	y	30:19	-	1.13	y
13	IS	13C-PCB-37	100.00	7.21e+07	1.07	y	30:18	-	1.56	y
14	Unk	PCB-54	5.00	3.37e+06	0.76	y	25:36	-	1.18	y
15	IS/RT	13C-PCB-54	100.00	5.70e+07	0.80	y	25:35	-	1.23	y
16	Unk	PCB-104	5.00	2.62e+06	1.49	y	30:02	-	1.16	y
17	IS	13C-PCB-104	100.00	4.53e+07	1.58	y	30:00	-	0.976	y
18	C/Up	13C-PCB-28	100.00	7.91e+07	1.06	y	26:39	-	1.71	y
19	RS	13C-PCB-52	100.00	4.63e+07	0.79	y	28:55	4.63e+05	-	n
20	Unk	PCB-81	5.00	3.55e+06	0.78	y	36:06	-	1.16	y
21	IS	13C-PCB-81	100.00	6.12e+07	0.80	y	36:04	-	1.53	y
22	Unk	PCB-77	5.00	3.56e+06	0.80	y	36:38	-	1.12	y
23	IS/RT	13C-PCB-77	100.00	6.35e+07	0.80	y	36:37	-	1.59	y
24	Unk	PCB-155	5.00	2.52e+06	1.26	y	34:12	-	1.14	y
25	IS	13C-PCB-155	100.00	4.43e+07	1.36	y	34:11	-	1.11	y
26	C/Up	13C-PCB-111	100.00	5.19e+07	1.62	y	36:14	-	1.30	y
27	RS	13C-PCB-101	100.00	3.99e+07	1.67	y	34:36	3.99e+05	-	n
28	Unk	PCB-123	5.00	2.84e+06	1.54	y	38:17	-	1.08	y
29	IS	13C-PCB-123	100.00	5.24e+07	1.61	y	38:17	-	1.30	y
30	Unk	PCB-118	5.00	3.05e+06	1.53	y	38:29	-	1.15	y
31	IS	13C-PCB-118	100.00	5.32e+07	1.63	y	38:27	-	1.32	y
32	Unk	PCB-114	5.00	2.89e+06	1.60	y	39:05	-	1.16	y
33	IS	13C-PCB-114	100.00	5.00e+07	1.63	y	39:03	-	1.24	y
34	Unk	PCB-105	5.00	2.82e+06	1.48	y	39:54	-	1.10	y
35	IS	13C-PCB-105	100.00	5.15e+07	1.63	y	39:53	-	1.28	y
36	Unk	PCB-126	5.00	2.74e+06	1.60	y	41:59	-	1.10	y
37	IS	13C-PCB-126	100.00	5.00e+07	1.62	y	41:59	-	1.24	y
38	Unk	PCB-167	5.00	2.74e+06	1.23	y	43:23	-	1.12	y
39	IS	13C-PCB-167	100.00	4.89e+07	1.28	y	43:22	-	1.21	y
40	Unk	PCB-156	5.00	2.60e+06	1.21	y	44:36	-	1.14	y
41	IS	13C-PCB-156	100.00	4.55e+07	1.27	y	44:36	-	1.13	y
42	Unk	PCB-157	5.00	2.59e+06	1.22	y	44:50	-	1.11	y
43	IS	13C-PCB-157	100.00	4.69e+07	1.27	y	44:50	-	1.16	y
44	Unk	PCB-169	5.00	2.43e+06	1.20	y	46:42	-	1.09	y
45	IS	13C-PCB-169	100.00	4.45e+07	1.28	y	46:42	-	1.10	y
46	Unk	PCB-188	5.00	2.62e+06	1.05	y	39:41	-	1.15	y
47	IS	13C-PCB-188	100.00	4.57e+07	1.07	y	39:39	-	1.13	y
48	Unk	PCB-189	5.00	2.05e+06	1.03	y	48:23	-	1.09	y
49	IS	13C-PCB-189	100.00	3.75e+07	1.07	y	48:23	-	0.929	y
50	Unk	PCB-202	5.00	1.97e+06	0.95	y	44:47	-	1.03	y
51	IS	13C-PCB-202	100.00	3.81e+07	0.90	y	44:46	-	0.944	y
52	C/Up	13C-PCB-178	100.00	3.17e+07	1.06	y	42:17	-	0.784	y
53	RS	13C-PCB-138	100.00	4.04e+07	1.27	y	41:30	4.04e+05	-	n

54	Unk	PCB-205	5.00	2.15e+06	0.89	y	50:03	-	1.12	y	
55	IS	13C-PCB-205	100.00	3.85e+07	0.91	y	50:02	-	1.25	y	
56	Unk	PCB-208	5.00	2.16e+06	1.40	y	49:08	-	1.04	y	
57	IS	13C-PCB-208	100.00	4.14e+07	0.79	y	49:07	-	1.34	y	
58	Unk	PCB-206	5.00	1.47e+06	1.38	y	51:14	-	1.07	y	
59	IS	13C-PCB-206	100.00	2.75e+07	0.78	y	51:14	-	0.892	y	
60	Unk	PCB-209	5.00	2.00e+06	1.15	y	52:24	-	1.17	y	
61	IS	13C-PCB-209	100.00	3.44e+07	1.20	y	52:24	-	1.11	y	
62	RS	13C-PCB-194	100.00	3.08e+07	0.91	y	49:46	3.08e+05	-	n	

Analyst: [illegible] Date: 7/28/20

Run #4 Filename 22JUL20Z S: 4 Acquired: 22-JUL-20 10:59:13 Cal: 1668PCBFAL4-7-22-20
Client ID: ST072220Z3 Analyte: FAL ID: 1668 CS399 R190905A

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	50.00	4.01e+07	3.17	y	14:32	-	1.15	y
2	IS/RT	13C-PCB-1	100.00	6.96e+07	3.19	y	14:31	-	0.898	y
3	Unk	PCB-3	50.00	4.19e+07	3.20	y	16:57	-	1.17	y
4	IS/RT	13C-PCB-3	100.00	7.16e+07	3.23	y	16:56	-	0.923	y
5	Unk	PCB-4	50.00	2.64e+07	1.52	y	18:12	-	1.03	y
6	IS/RT	13C-PCB-4	100.00	5.11e+07	1.56	y	18:11	-	0.659	y
7	Unk	PCB-15	50.00	4.24e+07	1.52	y	23:42	-	1.02	y
8	IS/RT	13C-PCB-15	100.00	8.28e+07	1.58	y	23:41	-	1.07	y
9	Unk	PCB-19	50.00	2.28e+07	1.06	y	22:05	-	1.15	y
10	IS/RT	13C-PCB-19	100.00	3.94e+07	1.08	y	22:03	-	0.509	y
11	RS	13C-PCB-9	100.00	7.75e+07	1.61	y	19:51	7.75e+05	-	n
12	Unk	PCB-37	50.00	3.56e+07	1.06	y	30:20	-	1.06	y
13	IS	13C-PCB-37	100.00	6.71e+07	1.06	y	30:18	-	1.68	y
14	Unk	PCB-54	50.00	3.03e+07	0.78	y	25:36	-	1.18	y
15	IS/RT	13C-PCB-54	100.00	5.15e+07	0.80	y	25:35	-	1.29	y
16	Unk	PCB-104	50.00	2.24e+07	1.55	y	30:02	-	1.09	y
17	IS	13C-PCB-104	100.00	4.09e+07	1.59	y	30:01	-	1.02	y
18	C/Up	13C-PCB-28	100.00	7.00e+07	1.04	y	26:38	-	1.75	y
19	RS	13C-PCB-52	100.00	4.00e+07	0.78	y	28:55	4.00e+05	-	n
20	Unk	PCB-81	50.00	3.00e+07	0.76	y	36:06	-	1.10	y
21	IS	13C-PCB-81	100.00	5.48e+07	0.79	y	36:04	-	1.52	y
22	Unk	PCB-77	50.00	2.97e+07	0.79	y	36:39	-	1.07	y
23	IS/RT	13C-PCB-77	100.00	5.55e+07	0.80	y	36:37	-	1.54	y
24	Unk	PCB-155	50.00	2.24e+07	1.28	y	34:11	-	1.09	y
25	IS	13C-PCB-155	100.00	4.10e+07	1.33	y	34:09	-	1.13	y
26	C/Up	13C-PCB-111	100.00	4.57e+07	1.61	y	36:13	-	1.26	y
27	RS	13C-PCB-101	100.00	3.62e+07	1.64	y	34:36	3.62e+05	-	n
28	Unk	PCB-123	50.00	2.48e+07	1.58	y	38:17	-	1.09	y
29	IS	13C-PCB-123	100.00	4.53e+07	1.59	y	38:16	-	1.25	y
30	Unk	PCB-118	50.00	2.61e+07	1.58	y	38:27	-	1.07	y
31	IS	13C-PCB-118	100.00	4.88e+07	1.60	y	38:25	-	1.35	y
32	Unk	PCB-114	50.00	2.50e+07	1.59	y	39:05	-	1.08	y
33	IS	13C-PCB-114	100.00	4.62e+07	1.60	y	39:03	-	1.28	y
34	Unk	PCB-105	50.00	2.41e+07	1.58	y	39:53	-	1.07	y
35	IS	13C-PCB-105	100.00	4.51e+07	1.60	y	39:53	-	1.25	y
36	Unk	PCB-126	50.00	2.21e+07	1.55	y	41:59	-	1.08	y
37	IS	13C-PCB-126	100.00	4.08e+07	1.62	y	41:58	-	1.13	y
38	Unk	PCB-167	50.00	2.29e+07	1.24	y	43:22	-	1.07	y
39	IS	13C-PCB-167	100.00	4.26e+07	1.29	y	43:22	-	1.18	y
40	Unk	PCB-156	50.00	2.29e+07	1.25	y	44:36	-	1.09	y
41	IS	13C-PCB-156	100.00	4.20e+07	1.27	y	44:34	-	1.16	y
42	Unk	PCB-157	50.00	2.26e+07	1.26	y	44:51	-	1.06	y
43	IS	13C-PCB-157	100.00	4.25e+07	1.27	y	44:49	-	1.17	y
44	Unk	PCB-169	50.00	2.20e+07	1.28	y	46:43	-	1.08	y
45	IS	13C-PCB-169	100.00	4.05e+07	1.27	y	46:43	-	1.12	y
46	Unk	PCB-188	50.00	2.17e+07	1.05	y	39:41	-	1.09	y
47	IS	13C-PCB-188	100.00	3.97e+07	1.08	y	39:40	-	1.10	y
48	Unk	PCB-189	50.00	1.83e+07	1.05	y	48:23	-	1.07	y
49	IS	13C-PCB-189	100.00	3.41e+07	1.07	y	48:23	-	0.941	y
50	Unk	PCB-202	50.00	1.80e+07	0.92	y	44:47	-	1.02	y
51	IS	13C-PCB-202	100.00	3.53e+07	0.91	y	44:46	-	0.975	y
52	C/Up	13C-PCB-178	100.00	2.76e+07	1.05	y	42:18	-	0.763	y
53	RS	13C-PCB-138	100.00	3.62e+07	1.29	y	41:30	3.62e+05	-	n

54	Unk	PCB-205	50.00	1.96e+07	0.90	y	50:02	-	1.07	y	
55	IS	13C-PCB-205	100.00	3.65e+07	0.88	y	50:02	-	1.29	y	
56	Unk	PCB-208	50.00	1.96e+07	1.36	y	49:07	-	0.998	y	
57	IS	13C-PCB-208	100.00	3.92e+07	0.80	y	49:07	-	1.39	y	
58	Unk	PCB-206	50.00	1.30e+07	1.33	y	51:14	-	1.04	y	
59	IS	13C-PCB-206	100.00	2.51e+07	0.79	y	51:13	-	0.888	y	
60	Unk	PCB-209	50.00	1.70e+07	1.18	y	52:25	-	1.11	y	
61	IS	13C-PCB-209	100.00	3.07e+07	1.22	y	52:25	-	1.09	y	
62	RS	13C-PCB-194	100.00	2.82e+07	0.90	y	49:47	2.82e+05	-	n	

Analyst: [illegible] Date: 7/28/21

Run #5 Filename 22JUL20Z S: 5 Acquired: 22-JUL-20 11:57:34 Cal: 1668PCBFAL4-7-22-20
Client ID: ST072220Z4 Analyte: FAL ID: 1668 CS499 R181022B

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	400.00	3.43e+08	3.16	y	14:31	-	1.14	y
2	IS/RT	13C-PCB-1	100.00	7.50e+07	3.19	y	14:30	-	0.946	y
3	Unk	PCB-3	400.00	3.61e+08	3.17	y	16:56	-	1.19	y
4	IS/RT	13C-PCB-3	100.00	7.62e+07	3.23	y	16:55	-	0.962	y
5	Unk	PCB-4	400.00	2.26e+08	1.54	y	18:11	-	1.05	y
6	IS/RT	13C-PCB-4	100.00	5.37e+07	1.55	y	18:10	-	0.678	y
7	Unk	PCB-15	400.00	3.58e+08	1.54	y	23:41	-	1.02	y
8	IS/RT	13C-PCB-15	100.00	8.76e+07	1.60	y	23:40	-	1.11	y
9	Unk	PCB-19	400.00	1.89e+08	1.05	y	22:04	-	1.16	y
10	IS/RT	13C-PCB-19	100.00	4.09e+07	1.08	y	22:03	-	0.516	y
11	RS	13C-PCB-9	100.00	7.92e+07	1.59	y	19:50	7.92e+05	-	n
12	Unk	PCB-37	400.00	3.02e+08	1.07	y	30:20	-	1.12	y
13	IS	13C-PCB-37	100.00	6.75e+07	1.06	y	30:19	-	1.65	y
14	Unk	PCB-54	400.00	2.48e+08	0.77	y	25:35	-	1.17	y
15	IS/RT	13C-PCB-54	100.00	5.30e+07	0.80	y	25:34	-	1.29	y
16	Unk	PCB-104	400.00	1.90e+08	1.57	y	30:02	-	1.12	y
17	IS	13C-PCB-104	100.00	4.26e+07	1.59	y	30:01	-	1.04	y
18	C/Up	13C-PCB-28	100.00	6.89e+07	1.07	y	26:39	-	1.68	y
19	RS	13C-PCB-52	100.00	4.10e+07	0.78	y	28:55	4.10e+05	-	n
20	Unk	PCB-81	400.00	2.61e+08	0.78	y	36:05	-	1.13	y
21	IS	13C-PCB-81	100.00	5.80e+07	0.79	y	36:05	-	1.58	y
22	Unk	PCB-77	400.00	2.59e+08	0.77	y	36:39	-	1.08	y
23	IS/RT	13C-PCB-77	100.00	6.00e+07	0.80	y	36:38	-	1.63	y
24	Unk	PCB-155	400.00	1.80e+08	1.31	y	34:12	-	1.12	y
25	IS	13C-PCB-155	100.00	4.01e+07	1.35	y	34:10	-	1.09	y
26	C/Up	13C-PCB-111	100.00	4.71e+07	1.61	y	36:13	-	1.28	y
27	RS	13C-PCB-101	100.00	3.68e+07	1.68	y	34:36	3.68e+05	-	n
28	Unk	PCB-123	400.00	2.09e+08	1.57	y	38:17	-	1.09	y
29	IS	13C-PCB-123	100.00	4.81e+07	1.59	y	38:16	-	1.35	y
30	Unk	PCB-118	400.00	2.18e+08	1.58	y	38:27	-	1.07	y
31	IS	13C-PCB-118	100.00	5.08e+07	1.61	y	38:27	-	1.42	y
32	Unk	PCB-114	400.00	2.10e+08	1.55	y	39:05	-	1.08	y
33	IS	13C-PCB-114	100.00	4.84e+07	1.59	y	39:04	-	1.36	y
34	Unk	PCB-105	400.00	1.89e+08	1.59	y	39:53	-	1.06	y
35	IS	13C-PCB-105	100.00	4.46e+07	1.60	y	39:53	-	1.25	y
36	Unk	PCB-126	400.00	1.98e+08	1.58	y	41:60	-	1.09	y
37	IS	13C-PCB-126	100.00	4.52e+07	1.60	y	41:60	-	1.27	y
38	Unk	PCB-167	400.00	1.94e+08	1.22	y	43:22	-	1.06	y
39	IS	13C-PCB-167	100.00	4.56e+07	1.26	y	43:22	-	1.28	y
40	Unk	PCB-156	400.00	1.95e+08	1.22	y	44:36	-	1.09	y
41	IS	13C-PCB-156	100.00	4.48e+07	1.27	y	44:34	-	1.26	y
42	Unk	PCB-157	400.00	1.92e+08	1.26	y	44:51	-	1.05	y
43	IS	13C-PCB-157	100.00	4.56e+07	1.27	y	44:49	-	1.28	y
44	Unk	PCB-169	400.00	1.85e+08	1.24	y	46:43	-	1.05	y
45	IS	13C-PCB-169	100.00	4.40e+07	1.25	y	46:43	-	1.23	y
46	Unk	PCB-188	400.00	1.81e+08	1.05	y	39:41	-	1.11	y
47	IS	13C-PCB-188	100.00	4.08e+07	1.07	y	39:40	-	1.14	y
48	Unk	PCB-189	400.00	1.52e+08	1.06	y	48:23	-	1.07	y
49	IS	13C-PCB-189	100.00	3.54e+07	1.06	y	48:23	-	0.991	y
50	Unk	PCB-202	400.00	1.40e+08	0.93	y	44:48	-	0.986	y
51	IS	13C-PCB-202	100.00	3.56e+07	0.91	y	44:46	-	0.996	y
52	C/Up	13C-PCB-178	100.00	2.84e+07	1.06	y	42:18	-	0.794	y
53	RS	13C-PCB-138	100.00	3.57e+07	1.29	y	41:30	3.57e+05	-	n

54	Unk	PCB-205	400.00	1.64e+08	0.88	y	50:02	-	1.06	y	
55	IS	13C-PCB-205	100.00	3.87e+07	0.89	y	50:02	-	1.35	y	
56	Unk	PCB-208	400.00	1.59e+08	1.33	y	49:07	-	0.989	y	
57	IS	13C-PCB-208	100.00	4.02e+07	0.81	y	49:07	-	1.40	y	
58	Unk	PCB-206	400.00	1.14e+08	1.34	y	51:14	-	1.04	y	
59	IS	13C-PCB-206	100.00	2.74e+07	0.80	y	51:13	-	0.954	y	
60	Unk	PCB-209	400.00	1.47e+08	1.18	y	52:25	-	1.12	y	
61	IS	13C-PCB-209	100.00	3.29e+07	1.19	y	52:23	-	1.15	y	
62	RS	13C-PCB-194	100.00	2.87e+07	0.90	y	49:47	2.87e+05	-	n	

Analyst: [illegible] Date: 7/28/20

Run #6 Filename 22JUL20Z S: 6 Acquired: 22-JUL-20 12:55:55 Cal: 1668PCBFAL4-7-22-20
Client ID: ST072220Z5 Analyte: 1668PCBFAL4-7-22-20 FAL ID: 1668 CS599 R130426C

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	2000.00	2.88e+09	3.17	y	14:30	-	1.17	y
2	IS/RT	13C-PCB-1	100.00	1.23e+08	3.18	y	14:29	-	0.884	y
3	Unk	PCB-3	2000.00	3.04e+09	3.14	y	16:56	-	1.15	y
4	IS/RT	13C-PCB-3	100.00	1.32e+08	3.18	y	16:55	-	0.951	y
5	Unk	PCB-4	2000.00	1.89e+09	1.53	y	18:12	-	1.02	y
6	IS/RT	13C-PCB-4	100.00	9.25e+07	1.58	y	18:10	-	0.665	y
7	Unk	PCB-15	2000.00	3.23e+09	1.54	y	23:43	-	1.02	y
8	IS/RT	13C-PCB-15	100.00	1.58e+08	1.57	y	23:41	-	1.14	y
9	Unk	PCB-19	2000.00	1.62e+09	1.05	y	22:05	-	1.16	y
10	IS/RT	13C-PCB-19	100.00	7.00e+07	1.07	y	22:04	-	0.503	y
11	RS	13C-PCB-9	100.00	1.39e+08	1.59	y	19:51	1.39e+06	-	n
12	Unk	PCB-37	2000.00	2.63e+09	1.06	y	30:21	-	1.12	y
13	IS	13C-PCB-37	100.00	1.17e+08	1.06	y	30:19	-	1.55	y
14	Unk	PCB-54	2000.00	2.07e+09	0.77	y	25:38	-	1.11	y
15	IS/RT	13C-PCB-54	100.00	9.34e+07	0.80	y	25:35	-	1.24	y
16	Unk	PCB-104	2000.00	1.56e+09	1.55	y	30:03	-	1.03	y
17	IS	13C-PCB-104	100.00	7.52e+07	1.59	y	30:02	-	0.995	y
18	C/Up	13C-PCB-28	100.00	1.24e+08	1.06	y	26:39	-	1.65	y
19	RS	13C-PCB-52	100.00	7.56e+07	0.80	y	28:56	7.56e+05	-	n
20	Unk	PCB-81	2000.00	2.34e+09	0.78	y	36:07	-	1.03	y
21	IS	13C-PCB-81	100.00	1.13e+08	0.79	y	36:06	-	1.73	y
22	Unk	PCB-77	2000.00	2.34e+09	0.79	y	36:40	-	1.01	y
23	IS/RT	13C-PCB-77	100.00	1.16e+08	0.78	y	36:38	-	1.77	y
24	Unk	PCB-155	2000.00	1.56e+09	1.29	y	34:13	-	1.08	y
25	IS	13C-PCB-155	100.00	7.27e+07	1.33	y	34:11	-	1.11	y
26	C/Up	13C-PCB-111	100.00	8.21e+07	1.60	y	36:14	-	1.25	y
27	RS	13C-PCB-101	100.00	6.56e+07	1.63	y	34:37	6.56e+05	-	n
28	Unk	PCB-123	2000.00	1.83e+09	1.59	y	38:19	-	1.07	y
29	IS	13C-PCB-123	100.00	8.57e+07	1.61	y	38:17	-	1.25	y
30	Unk	PCB-118	2000.00	1.95e+09	1.58	y	38:29	-	1.06	y
31	IS	13C-PCB-118	100.00	9.20e+07	1.61	y	38:27	-	1.35	y
32	Unk	PCB-114	2000.00	1.93e+09	1.58	y	39:06	-	1.09	y
33	IS	13C-PCB-114	100.00	8.84e+07	1.59	y	39:05	-	1.29	y
34	Unk	PCB-105	2000.00	1.88e+09	1.59	y	39:54	-	1.07	y
35	IS	13C-PCB-105	100.00	8.81e+07	1.59	y	39:53	-	1.29	y
36	Unk	PCB-126	2000.00	1.95e+09	1.59	y	42:01	-	1.03	y
37	IS	13C-PCB-126	100.00	9.45e+07	1.60	y	41:59	-	1.38	y
38	Unk	PCB-167	2000.00	1.86e+09	1.24	y	43:23	-	1.03	y
39	IS	13C-PCB-167	100.00	9.03e+07	1.28	y	43:22	-	1.32	y
40	Unk	PCB-156	2000.00	1.85e+09	1.24	y	44:37	-	1.07	y
41	IS	13C-PCB-156	100.00	8.66e+07	1.27	y	44:36	-	1.27	y
42	Unk	PCB-157	2000.00	1.90e+09	1.24	y	44:52	-	1.04	y
43	IS	13C-PCB-157	100.00	9.13e+07	1.27	y	44:51	-	1.34	y
44	Unk	PCB-169	2000.00	1.87e+09	1.24	y	46:44	-	1.02	y
45	IS	13C-PCB-169	100.00	9.21e+07	1.27	y	46:42	-	1.35	y
46	Unk	PCB-188	2000.00	1.59e+09	1.04	y	39:41	-	1.01	y
47	IS	13C-PCB-188	100.00	7.85e+07	1.05	y	39:41	-	1.15	y
48	Unk	PCB-189	2000.00	1.44e+09	1.05	y	48:25	-	0.936	y
49	IS	13C-PCB-189	100.00	7.71e+07	1.05	y	48:23	-	1.13	y
50	Unk	PCB-202	2000.00	1.22e+09	0.94	y	44:49	-	0.910	y
51	IS	13C-PCB-202	100.00	6.69e+07	0.91	y	44:47	-	0.980	y
52	C/Up	13C-PCB-178	100.00	5.50e+07	1.08	y	42:17	-	0.805	y
53	RS	13C-PCB-138	100.00	6.83e+07	1.28	y	41:31	6.83e+05	-	n

54	Unk	PCB-205	2000.00	1.56e+09	0.90	y	50:03	-	0.932	y	
55	IS	13C-PCB-205	100.00	8.39e+07	0.90	y	50:02	-	1.42	y	
56	Unk	PCB-208	2000.00	1.44e+09	1.35	y	49:08	-	0.901	y	
57	IS	13C-PCB-208	100.00	7.99e+07	0.80	y	49:07	-	1.35	y	
58	Unk	PCB-206	2000.00	1.07e+09	1.31	y	51:14	-	0.909	y	
59	IS	13C-PCB-206	100.00	5.90e+07	0.78	y	51:14	-	0.995	y	
60	Unk	PCB-209	2000.00	1.34e+09	1.20	y	52:24	-	0.951	y	
61	IS	13C-PCB-209	100.00	7.03e+07	1.20	y	52:24	-	1.19	y	
62	RS	13C-PCB-194	100.00	5.93e+07	0.88	y	49:46	5.93e+05	-	n	

Analyst: [illegible] Date: 7/28/26

Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/22/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 22JUL20Z Sam:4 Analysis Date: 22-JUL-20 10:59:13

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	47.6	37.5 - 62.5
PCB-3	M/M+2	3.20	2.66-3.60	y	47.5	37.5 - 62.5
PCB-4	M/M+2	1.52	1.33-1.79	y	45.3	37.5 - 62.5
PCB-15	M/M+2	1.52	1.33-1.79	y	46.9	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	47.7	37.5 - 62.5
PCB-37	M/M+2	1.06	0.88-1.20	y	46.4	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	49.7	37.5 - 62.5
PCB-77	M/M+2	0.79	0.65-0.89	y	48.6	37.5 - 62.5
PCB-81	M/M+2	0.76	0.65-0.89	y	48.4	37.5 - 62.5
PCB-104	M+2/M+4	1.55	1.32-1.78	y	49.0	37.5 - 62.5
PCB-105	M+2/M+4	1.58	1.32-1.78	y	48.5	37.5 - 62.5
PCB-114	M+2/M+4	1.59	1.32-1.78	y	47.9	37.5 - 62.5
PCB-118	M+2/M+4	1.58	1.32-1.78	y	47.8	37.5 - 62.5
PCB-123	M+2/M+4	1.58	1.32-1.78	y	49.3	37.5 - 62.5
PCB-126	M+2/M+4	1.55	1.32-1.78	y	49.9	37.5 - 62.5
PCB-155	M+2/M+4	1.28	1.05-1.43	y	48.2	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	48.4	37.5 - 62.5
PCB-157	M+2/M+4	1.26	1.05-1.43	y	49.2	37.5 - 62.5
PCB-167	M+2/M+4	1.24	1.05-1.43	y	48.4	37.5 - 62.5
PCB-169	M+2/M+4	1.28	1.05-1.43	y	50.3	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	49.8	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	50.2	37.5 - 62.5
PCB-202	M+2/M+4	0.92	0.76-1.02	y	49.5	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	49.5	37.5 - 62.5
PCB-206	M+4/M+6	1.33	1.13-1.53	y	49.9	37.5 - 62.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	49.5	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	49.1	37.5 - 62.5

Analyst: _____ Date: 7/28/20

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/22/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 22JUL20Z Sam:4 Analysis Date: 22-JUL-20 10:59:13

	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	3.19	2.66-3.60	y	99.9	50.0 - 145
13C-PCB-3	M/M+2	3.23	2.66-3.60	y	99.3	50.0 - 145
13C-PCB-4	M/M+2	1.56	1.33-1.79	y	100.0	50.0 - 145
13C-PCB-15	M/M+2	1.58	1.33-1.79	y	98.2	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	101	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	102	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	102	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	95.2	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	96.5	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	100	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	97.3	50.0 - 145
13C-PCB-114	M+2/M+4	1.60	1.32-1.78	y	98.6	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	99.5	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	97.6	50.0 - 145
13C-PCB-126	M+2/M+4	1.62	1.32-1.78	y	91.5	50.0 - 145
13C-PCB-155	M+2/M+4	1.33	1.05-1.43	y	103	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	97.6	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	96.7	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	95.8	50.0 - 145
13C-PCB-169	M+2/M+4	1.27	1.05-1.43	y	95.7	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	97.4	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	97.5	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	102	50.0 - 145
13C-PCB-205	M+2/M+4	0.88	0.76-1.02	y	98.2	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	94.8	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	1.22	0.99-1.33	y	98.6	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.04	0.88-1.20	y	101	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	99.4	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	98.3	75.0 - 125

Analyst: _____ Date: 7/22/20

FAL ID: ST072220Z3 Filename: 22JUL20Z Sam:4 Acquired: 22-JUL-20 10:59:13 ICal: 1668PCBFAL4-7-22-20
Client ID: 1668 CS399 R190905A 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	4.01e+07	3.17 y	14:32	1.21	47.6		2.50	-	-	*	-
13C-PCB-1	6.96e+07	3.19 y	14:31	0.90	99.9		2.50				99.9
PCB-3	4.19e+07	3.20 y	16:57	1.23	47.5		2.50	-	-	*	-
13C-PCB-3	7.16e+07	3.23 y	16:56	0.93	99.3		2.50				99.3
PCB-4	2.64e+07	1.52 y	18:12	1.14	45.3		2.50	-	-	*	-
13C-PCB-4	5.11e+07	1.56 y	18:11	0.66	100.0		2.50				100.0
PCB-15	4.24e+07	1.52 y	23:42	1.09	46.9		2.50	-	-	*	-
13C-PCB-15	8.28e+07	1.58 y	23:41	1.09	98.2		2.50				98.2
PCB-19	2.28e+07	1.06 y	22:05	1.21	47.7		2.50	-	-	*	-
13C-PCB-19	3.94e+07	1.08 y	22:03	0.50	101		2.50				101
13C-PCB-9	7.75e+07	1.61 y	19:51	-	76.0		2.50				
PCB-37	3.56e+07	1.06 y	30:20	1.14	46.4		2.50	-	-	*	-
13C-PCB-37	6.71e+07	1.06 y	30:18	1.64	102		2.50				102
PCB-54	3.03e+07	0.78 y	25:36	1.18	49.7		2.50	-	-	*	-
13C-PCB-54	5.15e+07	0.80 y	25:35	1.26	102		2.50				102
PCB-104	2.24e+07	1.55 y	30:02	1.12	49.0		2.50	-	-	*	-
13C-PCB-104	4.09e+07	1.59 y	30:01	1.02	100		2.50				100
13C-PCB-28	7.00e+07	1.04 y	26:38	1.73	101		2.50				101
13C-PCB-52	4.00e+07	0.78 y	28:55	-	75.3		2.50				
PCB-81	3.00e+07	0.76 y	36:06	1.13	48.4		2.50	-	-	*	-
13C-PCB-81	5.48e+07	0.79 y	36:04	1.57	96.5		2.50				96.5
PCB-77	2.97e+07	0.79 y	36:39	1.10	48.6		2.50	-	-	*	-
13C-PCB-77	5.55e+07	0.80 y	36:37	1.61	95.2		2.50				95.2
PCB-155	2.24e+07	1.28 y	34:11	1.13	48.2		2.50	-	-	*	-
13C-PCB-155	4.10e+07	1.33 y	34:09	1.10	103		2.50				103
13C-PCB-111	4.57e+07	1.61 y	36:13	1.27	99.4		2.50				99.4
13C-PCB-101	3.62e+07	1.64 y	34:36	-	75.9		2.50				
PCB-123	2.48e+07	1.58 y	38:17	1.11	49.3		2.50	-	-	*	-
13C-PCB-123	4.53e+07	1.59 y	38:16	1.28	97.6		2.50				97.6
PCB-118	2.61e+07	1.58 y	38:27	1.12	47.8		2.50	-	-	*	-
13C-PCB-118	4.88e+07	1.60 y	38:25	1.35	99.5		2.50				99.5
PCB-114	2.50e+07	1.59 y	39:05	1.13	47.9		2.50	-	-	*	-
13C-PCB-114	4.62e+07	1.60 y	39:03	1.29	98.6		2.50				98.6
PCB-105	2.41e+07	1.58 y	39:53	1.10	48.5		2.50	-	-	*	-
13C-PCB-105	4.51e+07	1.60 y	39:53	1.28	97.3		2.50				97.3
PCB-126	2.21e+07	1.55 y	41:59	1.08	49.9		2.50	-	-	*	-
13C-PCB-126	4.08e+07	1.62 y	41:58	1.23	91.5		2.50				91.5
PCB-167	2.29e+07	1.24 y	43:22	1.11	48.4		2.50	-	-	*	-
13C-PCB-167	4.26e+07	1.29 y	43:22	1.23	95.8		2.50				95.8
PCB-156	2.29e+07	1.25 y	44:36	1.13	48.4		2.50	-	-	*	-
13C-PCB-156	4.20e+07	1.27 y	44:34	1.19	97.6		2.50				97.6
PCB-157	2.26e+07	1.26 y	44:51	1.08	49.2		2.50	-	-	*	-
13C-PCB-157	4.25e+07	1.27 y	44:49	1.21	96.7		2.50				96.7
PCB-169	2.20e+07	1.28 y	46:43	1.08	50.3		2.50	-	-	*	-
13C-PCB-169	4.05e+07	1.27 y	46:43	1.17	95.7		2.50				95.7
PCB-188	2.17e+07	1.05 y	39:41	1.10	49.8		2.50	-	-	*	-
13C-PCB-188	3.97e+07	1.08 y	39:40	1.13	97.4		2.50				97.4
PCB-189	1.83e+07	1.05 y	48:23	1.07	50.2		2.50	-	-	*	-
13C-PCB-189	3.41e+07	1.07 y	48:23	0.97	97.5		2.50				97.5
PCB-202	1.80e+07	0.92 y	44:47	1.03	49.5		2.50	-	-	*	-
13C-PCB-202	3.53e+07	0.91 y	44:46	0.96	102		2.50				102
13C-PCB-178	2.76e+07	1.05 y	42:18	0.78	98.3		2.50				98.3
13C-PCB-138	3.62e+07	1.29 y	41:30	-	75.3		2.50				

Client ID: 1668 CS399 R190905A ConCal: NA EndCal: NA
Results: GC Column: DB1MS Amount: 1.000

PCB-205	1.96e+07	0.90 y	50:02	1.09	49.5	2.50	-	-	*	-
13C-PCB-205	3.65e+07	0.88 y	50:02	1.32	98.2	2.50				98.2
PCB-208	1.96e+07	1.36 y	49:07	1.01	49.5	2.50	-	-	*	-
13C-PCB-208	3.92e+07	0.80 y	49:07	1.38	101	2.50				101
PCB-206	1.30e+07	1.33 y	51:14	1.04	49.9	2.50	-	-	*	-
13C-PCB-206	2.51e+07	0.79 y	51:13	0.94	94.8	2.50				94.8
PCB-209	1.70e+07	1.18 y	52:25	1.13	49.1	2.50	-	-	*	-
13C-PCB-209	3.07e+07	1.22 y	52:25	1.10	98.6	2.50				98.6
13C-PCB-194	2.82e+07	0.90 y	49:47	-	74.1	2.50				

Analyst: [illegible] Date: 7/28/20

Frontier Analytical Laboratory

NATIVES
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/22/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 22JUL20Z Sam:8 Analysis Date: 22-JUL-20 14:52:38

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.23	2.66-3.60	y	51.0	37.5 - 62.5
PCB-3	M/M+2	3.15	2.66-3.60	y	48.9	37.5 - 62.5
PCB-4	M/M+2	1.47	1.33-1.79	y	46.7	37.5 - 62.5
PCB-15	M/M+2	1.51	1.33-1.79	y	52.2	37.5 - 62.5
PCB-19	M/M+2	1.06	0.88-1.20	y	50.5	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	51.0	37.5 - 62.5
PCB-54	M/M+2	0.76	0.65-0.89	y	105	75.0 - 125
PCB-77	M/M+2	0.79	0.65-0.89	y	100	75.0 - 125
PCB-81	M/M+2	0.77	0.65-0.89	y	112	75.0 - 125
PCB-104	M+2/M+4	1.57	1.32-1.78	y	106	75.0 - 125
PCB-105	M+2/M+4	1.58	1.32-1.78	y	111	75.0 - 125
PCB-114	M+2/M+4	1.55	1.32-1.78	y	121	75.0 - 125
PCB-118	M+2/M+4	1.55	1.32-1.78	y	207	150 - 250
PCB-123	M+2/M+4	1.62	1.32-1.78	y	95.7	75.0 - 125
PCB-126	M+2/M+4	1.60	1.32-1.78	y	111	75.0 - 125
PCB-155	M+2/M+4	1.32	1.05-1.43	y	107	75.0 - 125
PCB-156	M+2/M+4	1.27	1.05-1.43	y	111	75.0 - 125
PCB-157	M+2/M+4	1.26	1.05-1.43	y	112	75.0 - 125
PCB-167	M+2/M+4	1.26	1.05-1.43	y	106	75.0 - 125
PCB-169	M+2/M+4	1.21	1.05-1.43	y	96.1	75.0 - 125
PCB-188	M+2/M+4	1.05	0.89-1.21	y	108	75.0 - 125
PCB-189	M+2/M+4	1.04	0.89-1.21	y	100	75.0 - 125
PCB-202	M+2/M+4	0.93	0.76-1.02	y	145	112.5 - 187.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	156	112.5 - 187.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	158	112.5 - 187.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	157	112.5 - 187.5
PCB-209	M+4/M+6	1.16	0.99-1.33	y	157	112.5 - 187.5

Analyst: [illegible] Date: 7/28/20

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/22/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 22JUL20Z Sam:8 Analysis Date: 22-JUL-20 14:52:38

	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	3.09	2.66-3.60	y	94.4	50.0 - 145
13C-PCB-3	M/M+2	3.31	2.66-3.60	y	93.3	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	92.8	50.0 - 145
13C-PCB-15	M/M+2	1.61	1.33-1.79	y	93.3	50.0 - 145
13C-PCB-19	M/M+2	1.11	0.88-1.20	y	94.6	50.0 - 145
13C-PCB-37	M/M+2	1.04	0.88-1.20	y	102	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	98.1	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	105	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	104	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	97.9	50.0 - 145
13C-PCB-105	M+2/M+4	1.57	1.32-1.78	y	95.0	50.0 - 145
13C-PCB-114	M+2/M+4	1.64	1.32-1.78	y	90.1	50.0 - 145
13C-PCB-118	M+2/M+4	1.59	1.32-1.78	y	93.6	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	95.2	50.0 - 145
13C-PCB-126	M+2/M+4	1.62	1.32-1.78	y	93.1	50.0 - 145
13C-PCB-155	M+2/M+4	1.34	1.05-1.43	y	88.6	50.0 - 145
13C-PCB-156	M+2/M+4	1.31	1.05-1.43	y	93.9	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	91.2	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	94.2	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	92.7	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	90.3	50.0 - 145
13C-PCB-189	M+2/M+4	1.06	0.89-1.21	y	94.8	50.0 - 145
13C-PCB-202	M+2/M+4	0.89	0.76-1.02	y	88.3	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	95.6	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	95.1	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	94.8	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	90.3	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.06	0.88-1.20	y	109	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	108	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	106	75.0 - 125

Analyst: [illegible] Date: 7/28/20

FAL ID: ST072220Z6 Filename: 22JUL20Z Sam:8 Acquired: 22-JUL-20 14:52:38 ICal: 1668PCBFAL4-7-22-20
Client ID: CS20998 200406A ConCal: ST072220Z6 EndCal: ST072220Z7
Results: 13203 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.32e+07	3.23 y	14:31	1.21	51.0		2.50	-	-	*	-
13C-PCB-1	7.00e+07	3.09 y	14:30	0.90	94.4		2.50				94.4
PCB-3	4.31e+07	3.15 y	16:56	1.23	48.9		2.50	-	-	*	-
13C-PCB-3	7.16e+07	3.31 y	16:55	0.93	93.3		2.50				93.3
PCB-4	2.69e+07	1.47 y	18:11	1.14	46.7		2.50	-	-	*	-
13C-PCB-4	5.04e+07	1.60 y	18:09	0.66	92.8		2.50				92.8
PCB-15	4.76e+07	1.51 y	23:41	1.09	52.2		2.50	-	-	*	-
13C-PCB-15	8.36e+07	1.61 y	23:39	1.09	93.3		2.50				93.3
PCB-19	2.41e+07	1.06 y	22:04	1.21	50.5		2.50	-	-	*	-
13C-PCB-19	3.94e+07	1.11 y	22:02	0.50	94.6		2.50				94.6
13C-PCB-9	8.25e+07	1.59 y	19:49	-	80.8		2.50				
PCB-37	3.91e+07	1.05 y	30:19	1.14	51.0		2.50	-	-	*	-
13C-PCB-37	6.71e+07	1.04 y	30:17	1.64	102		2.50				102
PCB-54	6.21e+07	0.76 y	25:35	1.18	105		2.50	-	-	*	-
13C-PCB-54	4.99e+07	0.80 y	25:34	1.26	98.1		2.50				98.1
PCB-104	4.76e+07	1.57 y	30:02	1.12	106		2.50	-	-	*	-
13C-PCB-104	4.03e+07	1.60 y	29:60	1.02	97.9		2.50				97.9
13C-PCB-28	7.60e+07	1.06 y	26:39	1.73	109		2.50				109
13C-PCB-52	4.03e+07	0.79 y	28:54	-	75.8		2.50				
PCB-81	7.19e+07	0.77 y	36:05	1.13	112		2.50	-	-	*	-
13C-PCB-81	5.66e+07	0.80 y	36:03	1.57	104		2.50				104
PCB-77	6.50e+07	0.79 y	36:39	1.10	100		2.50	-	-	*	-
13C-PCB-77	5.89e+07	0.80 y	36:38	1.61	105		2.50				105
PCB-155	4.14e+07	1.32 y	34:11	1.13	107		2.50	-	-	*	-
13C-PCB-155	3.40e+07	1.34 y	34:10	1.10	88.6		2.50				88.6
13C-PCB-111	4.76e+07	1.62 y	36:14	1.27	108		2.50				108
13C-PCB-101	3.48e+07	1.68 y	34:35	-	73.0		2.50				
PCB-123	5.02e+07	1.62 y	38:17	1.11	95.7		2.50	-	-	*	-
13C-PCB-123	4.73e+07	1.60 y	38:16	1.28	95.2		2.50				95.2
PCB-118	1.14e+08	1.55 y	38:29	1.12	207		2.50	-	-	*	-
13C-PCB-118	4.91e+07	1.59 y	38:26	1.35	93.6		2.50				93.6
PCB-114	6.17e+07	1.55 y	39:05	1.13	121		2.50	-	-	*	-
13C-PCB-114	4.52e+07	1.64 y	39:04	1.29	90.1		2.50				90.1
PCB-105	5.79e+07	1.58 y	39:53	1.10	111		2.50	-	-	*	-
13C-PCB-105	4.72e+07	1.57 y	39:51	1.28	95.0		2.50				95.0
PCB-126	5.35e+07	1.60 y	41:60	1.08	111		2.50	-	-	*	-
13C-PCB-126	4.44e+07	1.62 y	41:58	1.23	93.1		2.50				93.1
PCB-167	5.26e+07	1.26 y	43:22	1.11	106		2.50	-	-	*	-
13C-PCB-167	4.48e+07	1.27 y	43:20	1.23	94.2		2.50				94.2
PCB-156	5.38e+07	1.27 y	44:36	1.13	111		2.50	-	-	*	-
13C-PCB-156	4.32e+07	1.31 y	44:34	1.19	93.9		2.50				93.9
PCB-157	5.18e+07	1.26 y	44:51	1.08	112		2.50	-	-	*	-
13C-PCB-157	4.29e+07	1.29 y	44:49	1.21	91.2		2.50				91.2
PCB-169	4.35e+07	1.21 y	46:43	1.08	96.1		2.50	-	-	*	-
13C-PCB-169	4.20e+07	1.25 y	46:41	1.17	92.7		2.50				92.7
PCB-188	4.66e+07	1.05 y	39:40	1.10	108		2.50	-	-	*	-
13C-PCB-188	3.94e+07	1.09 y	39:40	1.13	90.3		2.50				90.3
PCB-189	3.80e+07	1.04 y	48:23	1.07	100		2.50	-	-	*	-
13C-PCB-189	3.55e+07	1.06 y	48:22	0.97	94.8		2.50				94.8
PCB-202	4.88e+07	0.93 y	44:46	1.03	145		2.50	-	-	*	-
13C-PCB-202	3.27e+07	0.89 y	44:46	0.96	88.3		2.50				88.3
13C-PCB-178	3.18e+07	1.07 y	42:16	0.78	106		2.50				106
13C-PCB-138	3.87e+07	1.27 y	41:30	-	80.6		2.50				

Client ID: CS20998 200406A ConCal: ST072220Z6 EndCal: ST072220Z7
Results: 13203 GC Column: DB1MS Amount: 1.000

PCB-205	6.56e+07	0.88 y	50:02	1.09	156	2.50	-	-	*	-
13C-PCB-205	3.89e+07	0.91 y	50:01	1.32	95.6	2.50				95.6
PCB-208	6.35e+07	1.35 y	49:07	1.01	157	2.50	-	-	*	-
13C-PCB-208	4.03e+07	0.79 y	49:06	1.38	94.8	2.50				94.8
PCB-206	4.51e+07	1.35 y	51:14	1.04	158	2.50	-	-	*	-
13C-PCB-206	2.75e+07	0.80 y	51:13	0.94	95.1	2.50				95.1
PCB-209	5.44e+07	1.16 y	52:25	1.13	157	2.50	-	-	*	-
13C-PCB-209	3.07e+07	1.21 y	52:24	1.10	90.3	2.50				90.3
13C-PCB-194	3.09e+07	0.91 y	49:47	-	81.0	2.50				

Analyst: [signature] Date: 7/28/20

Frontier Analytical Laboratory

NATIVES
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/22/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 22JUL20Z Sam:20 Analysis Date: 23-JUL-20 02:32:55

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	49.5	37.5 - 62.5
PCB-3	M/M+2	3.12	2.66-3.60	y	47.0	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	1.52	1.33-1.79	y	53.7	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	52.4	37.5 - 62.5
PCB-37	M/M+2	1.10	0.88-1.20	y	57.6	37.5 - 62.5
PCB-54	M/M+2	0.76	0.65-0.89	y	95.9	75.0 - 125
PCB-77	M/M+2	0.81	0.65-0.89	y	100	75.0 - 125
PCB-81	M/M+2	0.79	0.65-0.89	y	111	75.0 - 125
PCB-104	M+2/M+4	1.53	1.32-1.78	y	100	75.0 - 125
PCB-105	M+2/M+4	1.62	1.32-1.78	y	116	75.0 - 125
PCB-114	M+2/M+4	1.58	1.32-1.78	y	118	75.0 - 125
PCB-118	M+2/M+4	1.61	1.32-1.78	y	211	150 - 250
PCB-123	M+2/M+4	1.61	1.32-1.78	y	103	75.0 - 125
PCB-126	M+2/M+4	1.58	1.32-1.78	y	112	75.0 - 125
PCB-155	M+2/M+4	1.31	1.05-1.43	y	112	75.0 - 125
PCB-156	M+2/M+4	1.23	1.05-1.43	y	105	75.0 - 125
PCB-157	M+2/M+4	1.24	1.05-1.43	y	106	75.0 - 125
PCB-167	M+2/M+4	1.22	1.05-1.43	y	102	75.0 - 125
PCB-169	M+2/M+4	1.24	1.05-1.43	y	103	75.0 - 125
PCB-188	M+2/M+4	1.05	0.89-1.21	y	103	75.0 - 125
PCB-189	M+2/M+4	1.05	0.89-1.21	y	102	75.0 - 125
PCB-202	M+2/M+4	0.94	0.76-1.02	y	152	112.5 - 187.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	153	112.5 - 187.5
PCB-206	M+4/M+6	1.36	1.13-1.53	y	159	112.5 - 187.5
PCB-208	M+4/M+6	1.36	1.13-1.53	y	154	112.5 - 187.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	153	112.5 - 187.5

Analyst: [signature] Date: 7/28/20

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/22/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 22JUL20Z Sam:20 Analysis Date: 23-JUL-20 02:32:55

	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	97.5	50.0 - 145
13C-PCB-3	M/M+2	3.24	2.66-3.60	y	92.3	50.0 - 145
13C-PCB-4	M/M+2	1.55	1.33-1.79	y	96.1	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	1.09	0.88-1.20	y	92.8	50.0 - 145
13C-PCB-37	M/M+2	1.07	0.88-1.20	y	70.8	50.0 - 145
13C-PCB-54	M/M+2	0.78	0.65-0.89	y	99.2	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	91.8	50.0 - 145
13C-PCB-81	M/M+2	0.78	0.65-0.89	y	90.7	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	1.58	1.32-1.78	y	78.6	50.0 - 145
13C-PCB-114	M+2/M+4	1.59	1.32-1.78	y	83.7	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	83.3	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	80.7	50.0 - 145
13C-PCB-126	M+2/M+4	1.62	1.32-1.78	y	82.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.34	1.05-1.43	y	86.1	50.0 - 145
13C-PCB-156	M+2/M+4	1.26	1.05-1.43	y	91.1	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	93.9	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	91.3	50.0 - 145
13C-PCB-169	M+2/M+4	1.26	1.05-1.43	y	92.2	50.0 - 145
13C-PCB-188	M+2/M+4	1.07	0.89-1.21	y	96.6	50.0 - 145
13C-PCB-189	M+2/M+4	1.04	0.89-1.21	y	96.9	50.0 - 145
13C-PCB-202	M+2/M+4	0.90	0.76-1.02	y	90.6	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	95.2	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	97.2	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	98.4	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	98.9	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.03	0.88-1.20	y	84.4	65.0 - 135
13C-PCB-111	M+2/M+4	1.61	1.32-1.78	y	101	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	108	75.0 - 125

Analyst: [signature] Date: 7/28/20

FAL ID: SS072220Z1 Filename: 22JUL20Z Sam:9 Acquired: 22-JUL-20 15:50:59 ICal: 1668PCBFAL4-7-22-20
Client ID: 2nd Source 170815A ConCal: ST072220Z6 EndCal: ST072220Z7
Results: 13203 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.37e+07	3.17 y	14:30	1.21	54.0		2.50	-	-	*	-
13C-PCB-1	6.68e+07	3.19 y	14:29	0.90	95.1		2.50				95.1
PCB-3	4.43e+07	3.15 y	16:56	1.23	52.1		2.50	-	-	*	-
13C-PCB-3	6.91e+07	3.23 y	16:55	0.93	95.0		2.50				95.0
PCB-4	2.66e+07	1.47 y	18:11	1.14	49.6		2.50	-	-	*	-
13C-PCB-4	4.70e+07	1.58 y	18:09	0.66	91.2		2.50				91.2
PCB-15	4.99e+07	1.50 y	23:41	1.09	57.7		2.50	-	-	*	-
13C-PCB-15	7.93e+07	1.58 y	23:40	1.09	93.3		2.50				93.3
PCB-19	2.44e+07	1.06 y	22:04	1.21	55.7		2.50	-	-	*	-
13C-PCB-19	3.61e+07	1.09 y	22:02	0.50	91.5		2.50				91.5
13C-PCB-9	7.82e+07	1.61 y	19:50	-	76.6		2.50				
PCB-37	3.95e+07	1.07 y	30:20	1.14	57.5		2.50	-	-	*	-
13C-PCB-37	6.00e+07	1.04 y	30:18	1.64	92.7		2.50				92.7
PCB-54	6.47e+07	0.77 y	25:35	1.18	115		2.50	-	-	*	-
13C-PCB-54	4.76e+07	0.79 y	25:34	1.26	95.6		2.50				95.6
PCB-104	4.98e+07	1.55 y	30:02	1.12	110		2.50	-	-	*	-
13C-PCB-104	4.06e+07	1.59 y	30:01	1.02	101		2.50				101
13C-PCB-28	6.30e+07	1.03 y	26:38	1.73	92.1		2.50				92.1
13C-PCB-52	3.95e+07	0.79 y	28:55	-	74.3		2.50				
PCB-81	7.58e+07	0.78 y	36:04	1.13	121		2.50	-	-	*	-
13C-PCB-81	5.53e+07	0.80 y	36:03	1.57	92.4		2.50				92.4
PCB-77	6.74e+07	0.80 y	36:39	1.10	108		2.50	-	-	*	-
13C-PCB-77	5.67e+07	0.79 y	36:37	1.61	92.2		2.50				92.2
PCB-155	4.84e+07	1.30 y	34:11	1.13	110		2.50	-	-	*	-
13C-PCB-155	3.90e+07	1.31 y	34:09	1.10	92.5		2.50				92.5
13C-PCB-111	4.54e+07	1.60 y	36:15	1.27	93.7		2.50				93.7
13C-PCB-101	3.81e+07	1.64 y	34:36	-	80.1		2.50				
PCB-123	5.46e+07	1.60 y	38:17	1.11	111		2.50	-	-	*	-
13C-PCB-123	4.42e+07	1.58 y	38:16	1.28	90.7		2.50				90.7
PCB-118	1.19e+08	1.58 y	38:29	1.12	218		2.50	-	-	*	-
13C-PCB-118	4.87e+07	1.58 y	38:25	1.35	94.7		2.50				94.7
PCB-114	6.53e+07	1.58 y	39:05	1.13	122		2.50	-	-	*	-
13C-PCB-114	4.74e+07	1.58 y	39:03	1.29	96.5		2.50				96.5
PCB-105	6.07e+07	1.59 y	39:53	1.10	121		2.50	-	-	*	-
13C-PCB-105	4.55e+07	1.60 y	39:51	1.28	93.4		2.50				93.4
PCB-126	5.71e+07	1.62 y	41:59	1.08	122		2.50	-	-	*	-
13C-PCB-126	4.33e+07	1.64 y	41:58	1.23	92.4		2.50				92.4
PCB-167	5.16e+07	1.22 y	43:22	1.11	109		2.50	-	-	*	-
13C-PCB-167	4.26e+07	1.27 y	43:20	1.23	91.2		2.50				91.2
PCB-156	5.37e+07	1.23 y	44:36	1.13	113		2.50	-	-	*	-
13C-PCB-156	4.21e+07	1.25 y	44:34	1.19	93.3		2.50				93.3
PCB-157	5.42e+07	1.24 y	44:51	1.08	115		2.50	-	-	*	-
13C-PCB-157	4.38e+07	1.31 y	44:49	1.21	94.9		2.50				94.9
PCB-169	4.57e+07	1.22 y	46:43	1.08	105		2.50	-	-	*	-
13C-PCB-169	4.03e+07	1.27 y	46:43	1.17	90.7		2.50				90.7
PCB-188	4.93e+07	1.04 y	39:41	1.10	107		2.50	-	-	*	-
13C-PCB-188	4.18e+07	1.05 y	39:40	1.13	97.6		2.50				97.6
PCB-189	4.15e+07	1.05 y	48:23	1.07	112		2.50	-	-	*	-
13C-PCB-189	3.48e+07	1.07 y	48:23	0.97	94.7		2.50				94.7
PCB-202	5.50e+07	0.92 y	44:47	1.03	168		2.50	-	-	*	-
13C-PCB-202	3.17e+07	0.91 y	44:46	0.96	87.3		2.50				87.3
13C-PCB-178	3.01e+07	1.07 y	42:18	0.78	102		2.50				102
13C-PCB-138	3.80e+07	1.27 y	41:30	-	79.0		2.50				

Client ID: 2nd Source 170815A ConCal: ST072220Z6 EndCal: ST072220Z7
Results: 13203 GC Column: DB1MS Amount: 1.000

PCB-205	6.65e+07	0.90 y	50:02	1.09	166	2.50	-	-	*	-
13C-PCB-205	3.68e+07	0.90 y	50:02	1.32	93.3	2.50				93.3
PCB-208	6.52e+07	1.32 y	49:07	1.01	166	2.50	-	-	*	-
13C-PCB-208	3.91e+07	0.80 y	49:06	1.38	94.6	2.50				94.6
PCB-206	4.57e+07	1.34 y	51:14	1.04	167	2.50	-	-	*	-
13C-PCB-206	2.63e+07	0.78 y	51:13	0.94	93.5	2.50				93.5
PCB-209	5.61e+07	1.21 y	52:25	1.13	166	2.50	-	-	*	-
13C-PCB-209	3.00e+07	1.17 y	52:23	1.10	90.7	2.50				90.7
13C-PCB-194	3.00e+07	0.90 y	49:47	-	78.8	2.50				

Analyst: [signature] Date: 7/28/20

Frontier Analytical Laboratory - Acquisition Log

Run Name:22JUL20Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

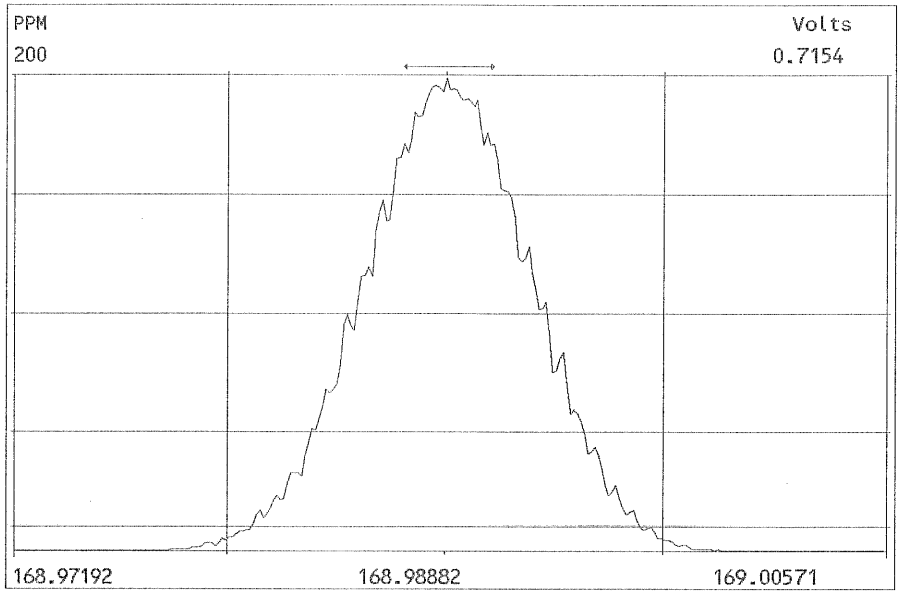
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
22JUL20Z	1	ST072220Z0	1668 CS099 R181022A	22-JUL-20 08:04:10	NA	NA	BS
22JUL20Z	2	ST072220Z1	1668 CS199 R170213A	22-JUL-20 09:02:30	NA	NA	BS
22JUL20Z	3	ST072220Z2	1668 CS299 R170213B	22-JUL-20 10:00:51	NA	NA	BS
22JUL20Z	4	ST072220Z3	1668 CS399 R190905A	22-JUL-20 10:59:13	NA	NA	BS
22JUL20Z	5	ST072220Z4	1668 CS499 R181022B	22-JUL-20 11:57:34	NA	NA	BS
22JUL20Z	6	ST072220Z5	1668 CS599 R130426C	22-JUL-20 12:55:55	NA	NA	BS
22JUL20Z	7	SB072220Z1	Solvent Blank	22-JUL-20 13:54:16	NA	NA	BS
22JUL20Z	8	ST072220Z6	CS20998 200406A	22-JUL-20 14:52:38	ST072220Z6	ST072220Z7	BS
22JUL20Z	9	SS072220Z1	2nd Source 170815A	22-JUL-20 15:50:59	ST072220Z6	ST072220Z7	BS
22JUL20Z	10	05376-001-0001-OPR	OPR	22-JUL-20 16:49:21	ST072220Z6	ST072220Z7	BS
22JUL20Z	11	05387-001-0001-OPR	OPR	22-JUL-20 17:47:42	ST072220Z6	ST072220Z7	BS
22JUL20Z	12	05376-001-0001-MB	Method Blank	22-JUL-20 18:46:03	ST072220Z6	ST072220Z7	BS
22JUL20Z	13	05387-001-0001-MB	Method Blank	22-JUL-20 19:44:25	ST072220Z6	ST072220Z7	BS
22JUL20Z	14	13203-002-0001-SA	E-001-D	22-JUL-20 20:42:46	ST072220Z6	ST072220Z7	BS
22JUL20Z	15	13208-001-0001-SA	Effluent	22-JUL-20 21:41:07	ST072220Z6	ST072220Z7	BS
22JUL20Z	16	13209-002-0001-SA	E2007007C	22-JUL-20 22:39:30	ST072220Z6	ST072220Z7	BS
22JUL20Z	17	13211-001-0001-SA	202007100007	22-JUL-20 23:37:51	ST072220Z6	ST072220Z7	BS
22JUL20Z	18	13217-001-0001-SA	EFF-002	23-JUL-20 00:36:12	ST072220Z6	ST072220Z7	BS
22JUL20Z	19	SB072220Z2	Solvent Blank	23-JUL-20 01:34:34	ST072220Z6	ST072220Z7	BS
22JUL20Z	20	ST072220Z7	CS20999 200406A	23-JUL-20 02:32:55	ST072220Z6	ST072220Z7	BS

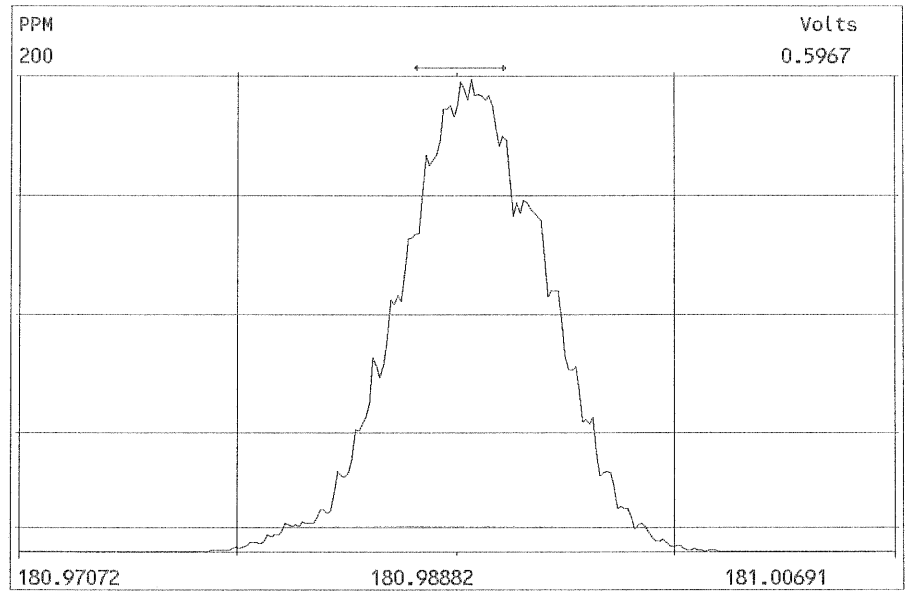
7/28/20

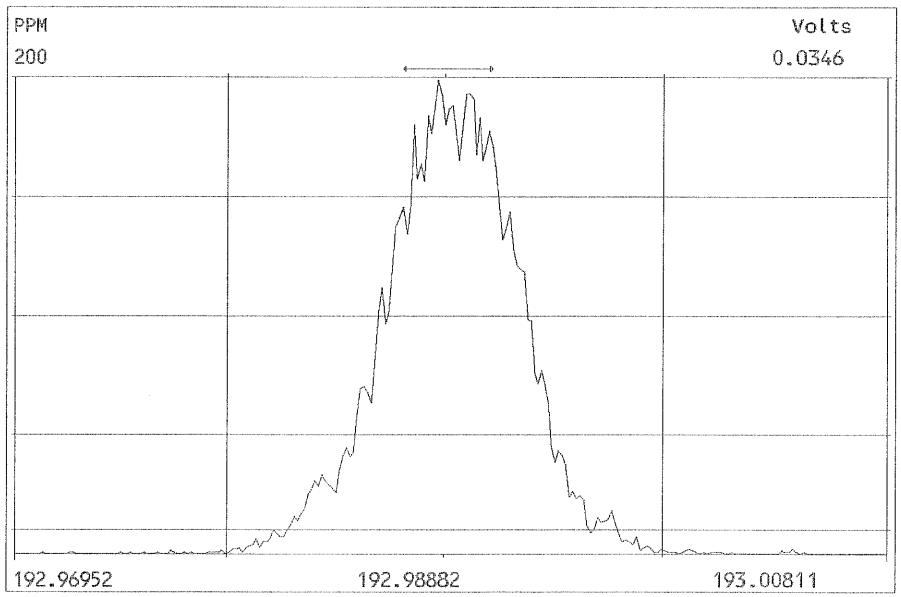
Data Backed Up:_____

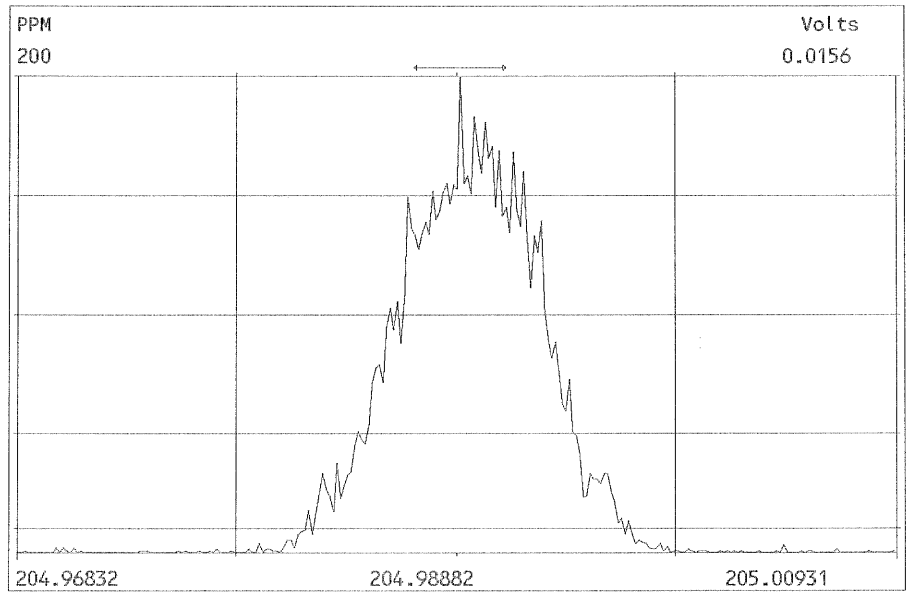
Date:_____

Peak Locate Examination:22-JUL-2020:08:00 File:22JUL20Z
Experiment:1668PCB Function:1 Reference:PFK 99

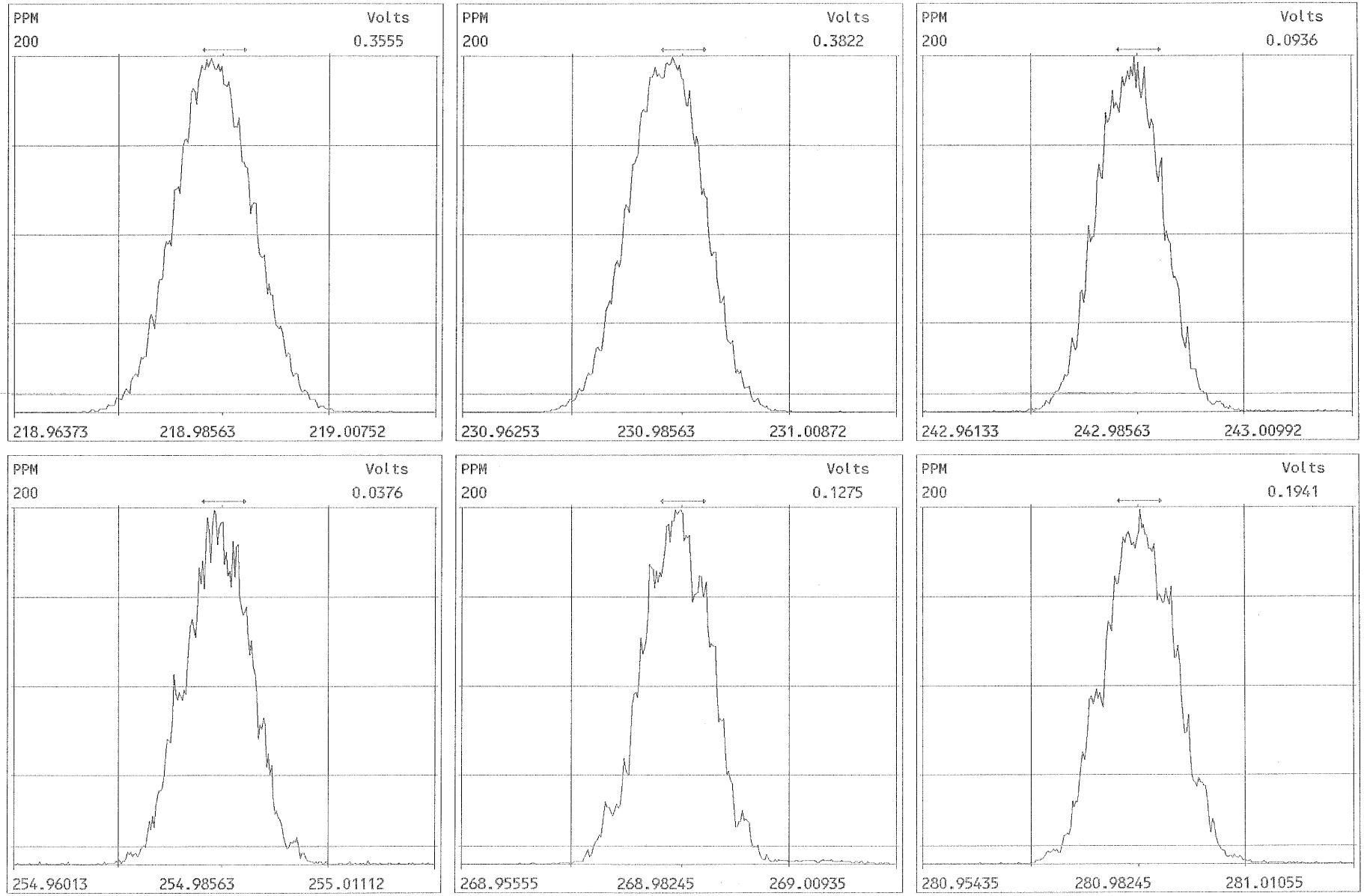




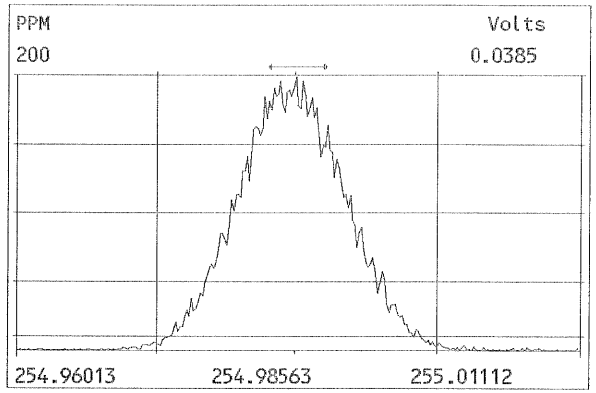


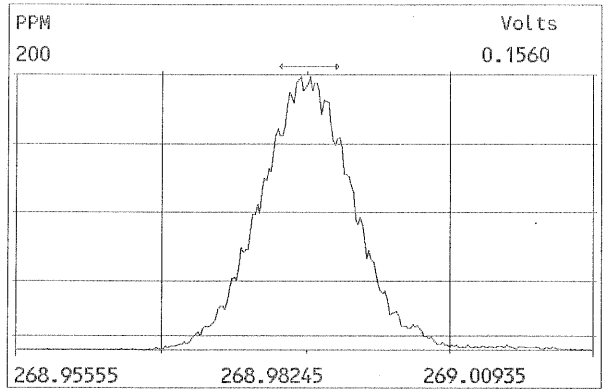


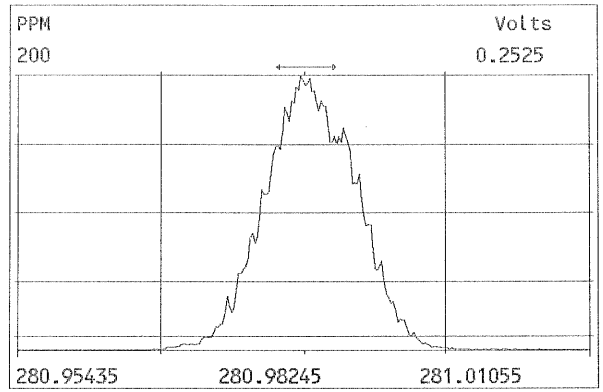
Peak Locate Examination:22-JUL-2020:08:01 File:22JUL20Z
Experiment:1668PCB Function:2 Reference:PFK 99

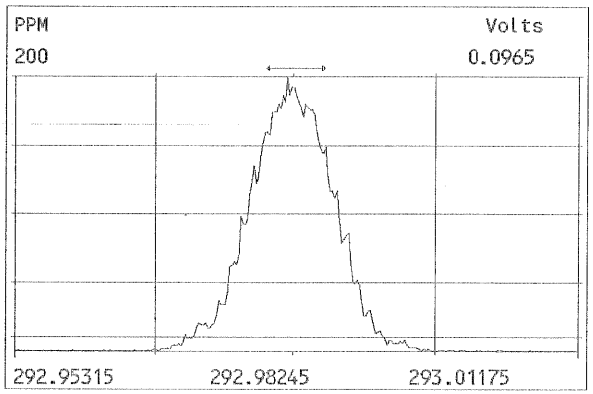


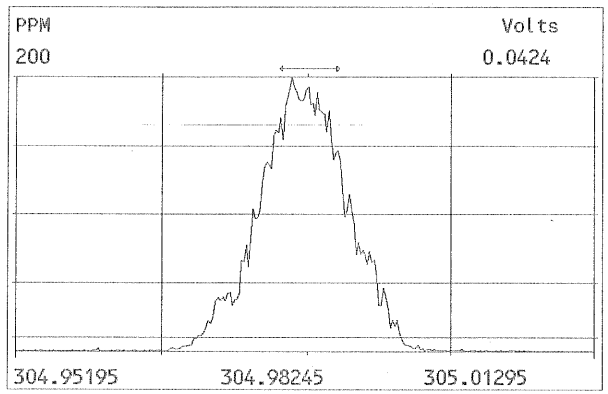
Peak Locate Examination:22-JUL-2020:08:01 File:22JUL20Z
Experiment:1668PCB Function:3 Reference:PFK99

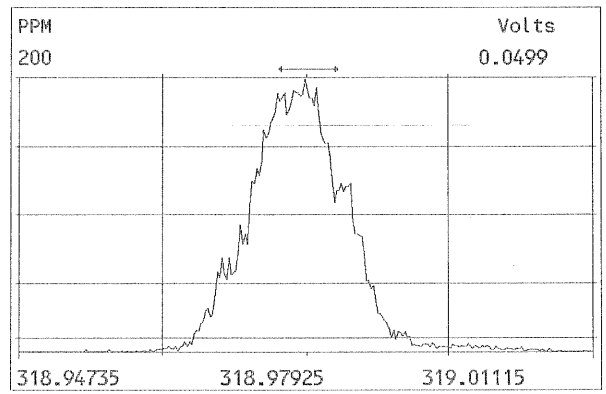


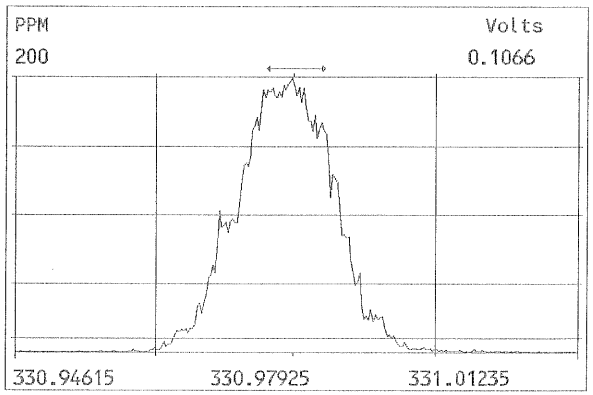


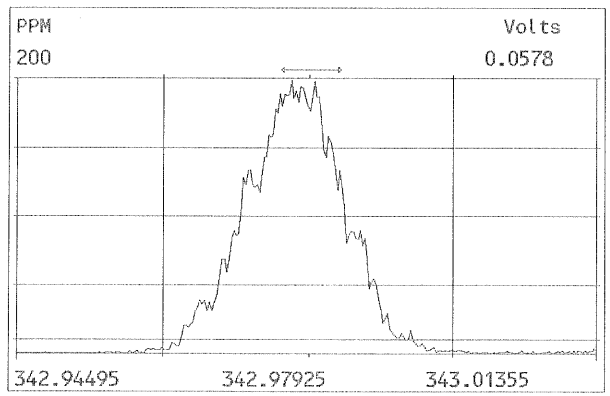




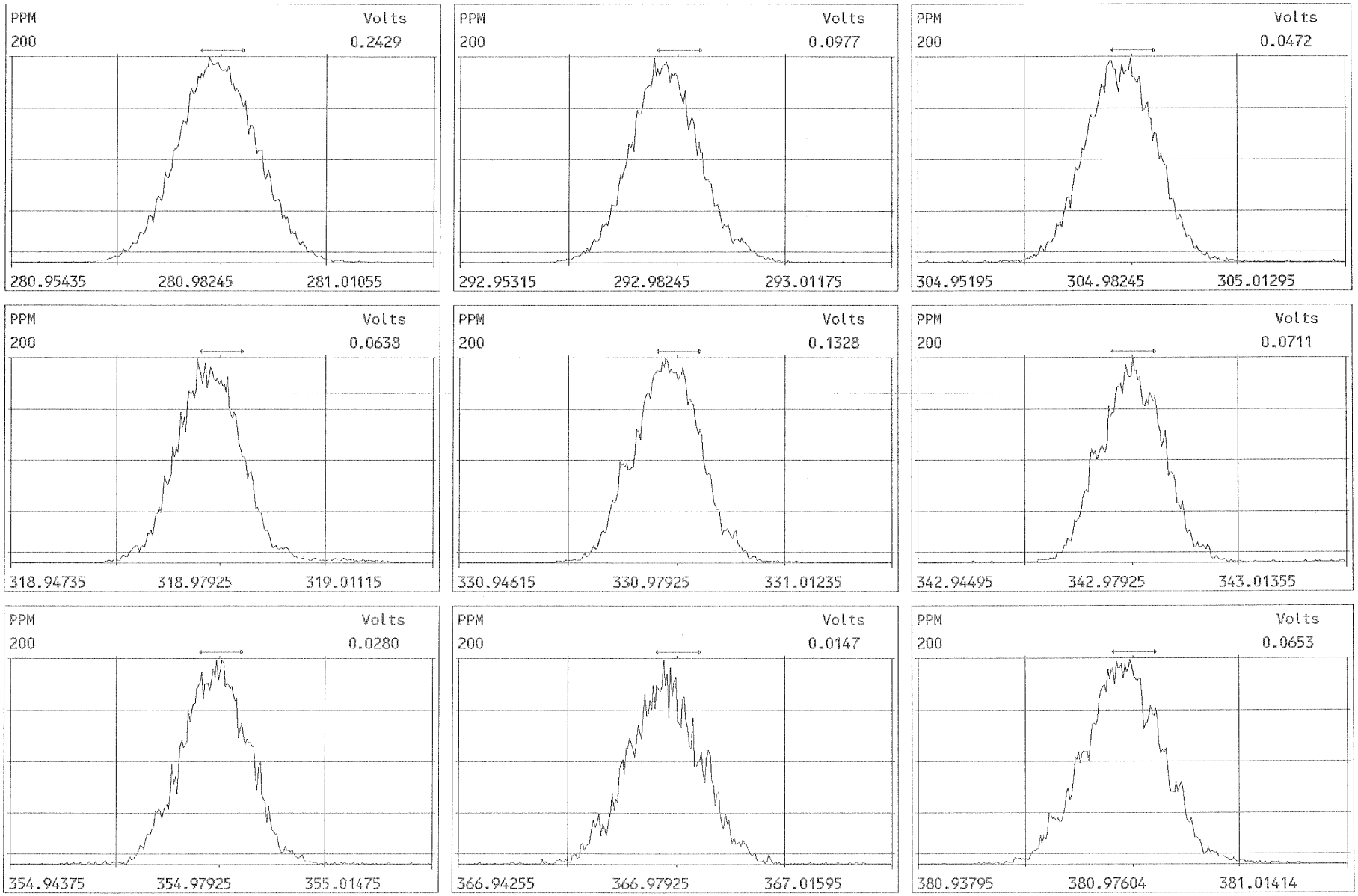




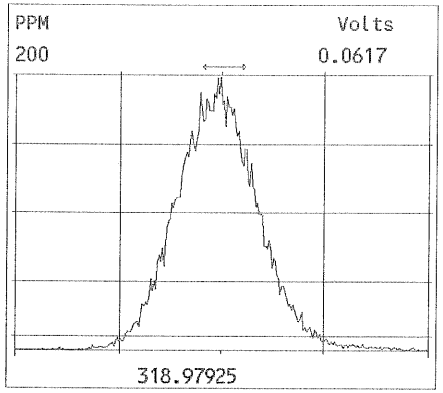


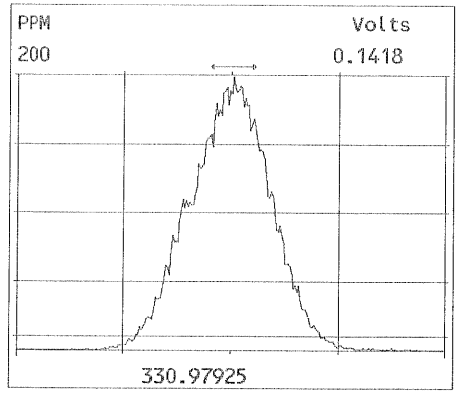


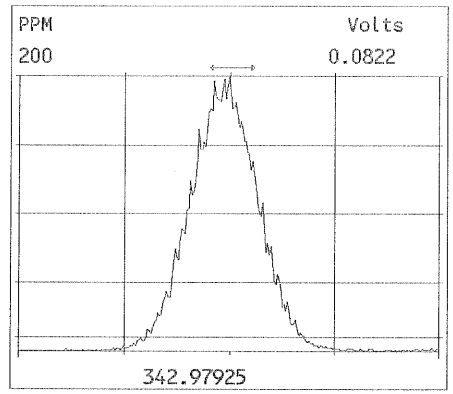
Peak Locate Examination:22-JUL-2020:08:01 File:22JUL20Z
Experiment:1668PCB Function:4 Reference:PFK99

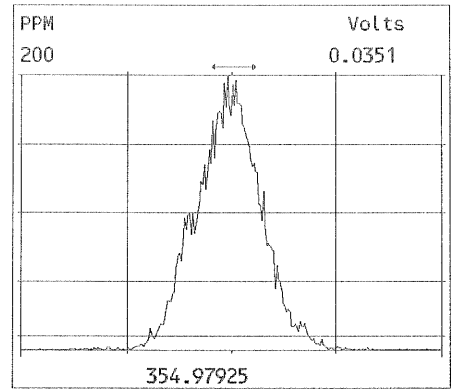


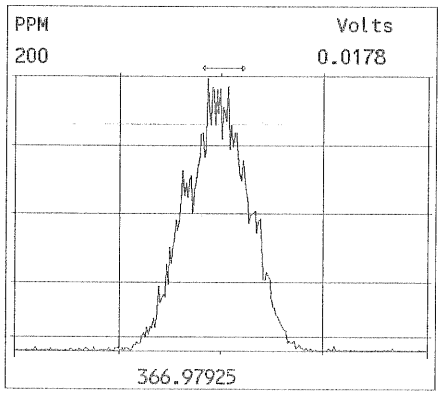
Peak Locate Examination:22-JUL-2020:08:02 File:22JUL20Z
Experiment:1668PCB Function:5 Reference:PFK 99

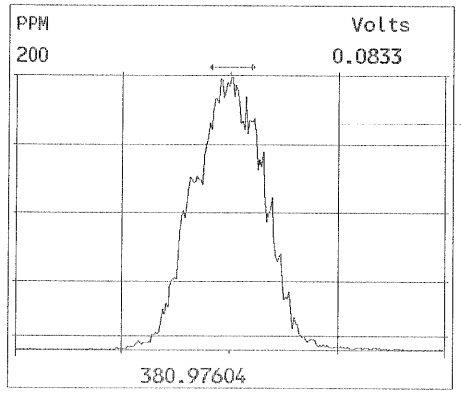


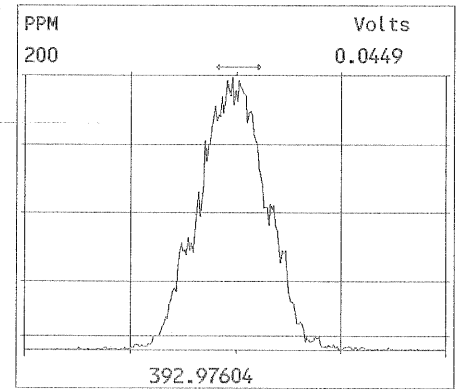


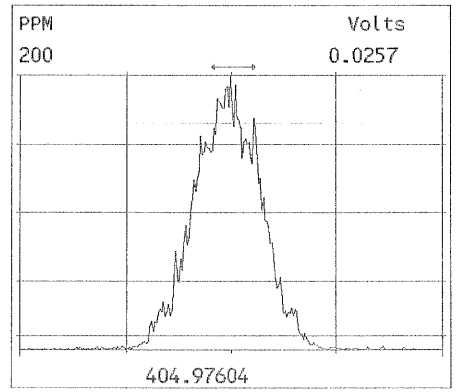


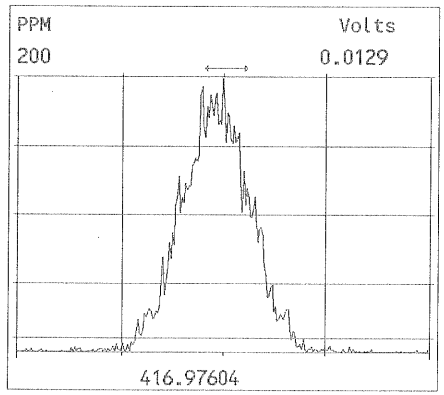


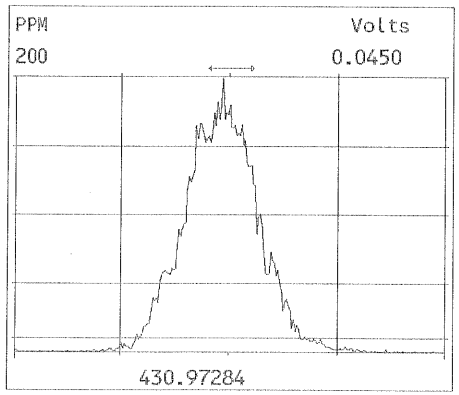


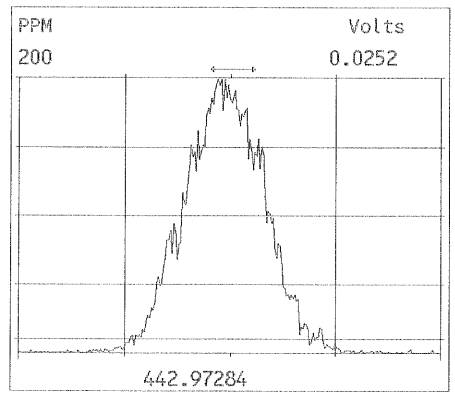




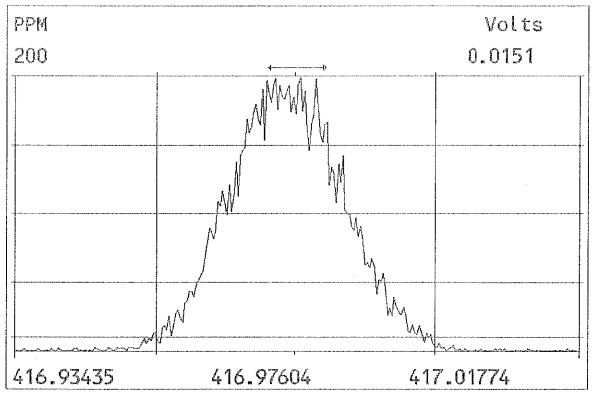


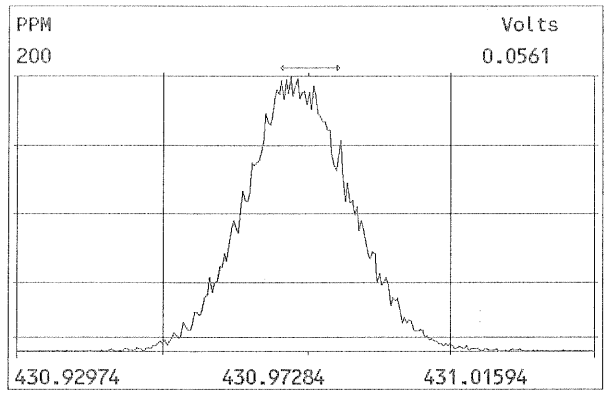


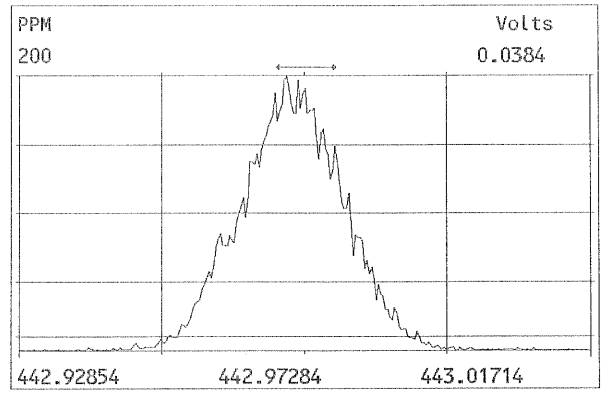


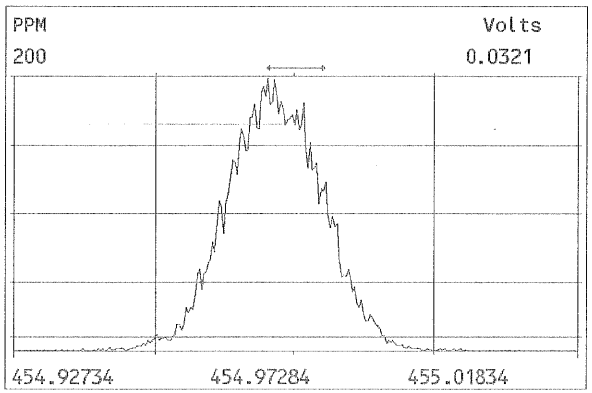


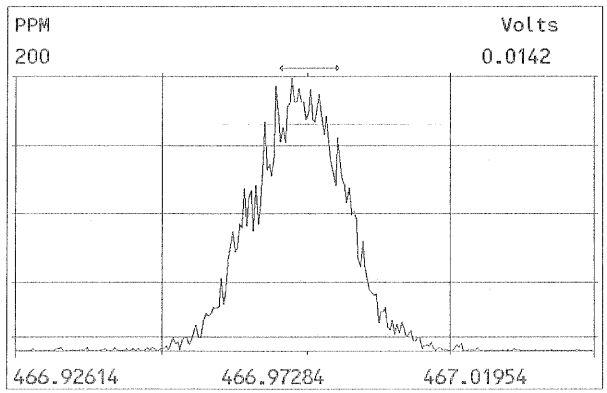
Peak Locate Examination:22-JUL-2020:08:03 File:22JUL20Z
Experiment:1668PCB Function:6 Reference:PFK99

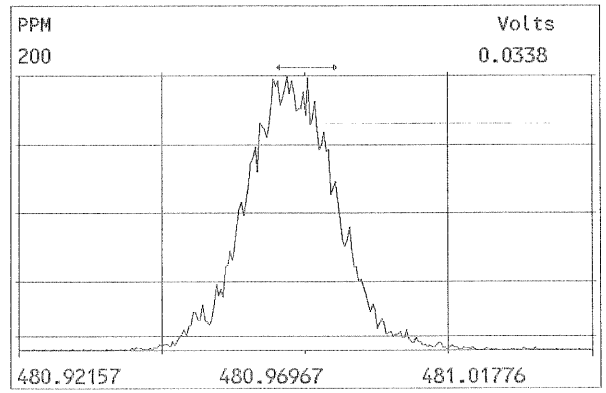


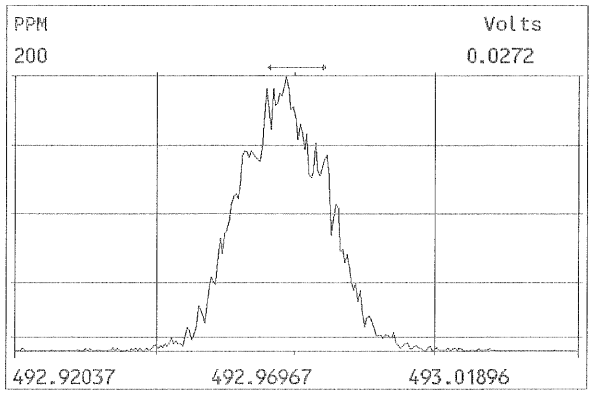


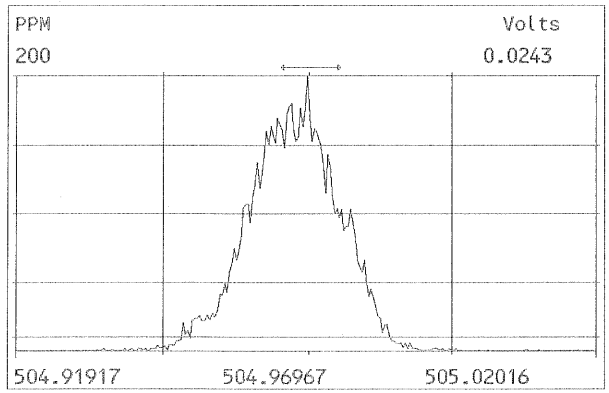


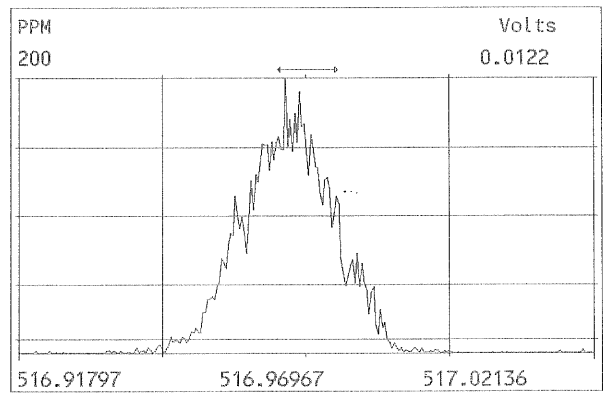




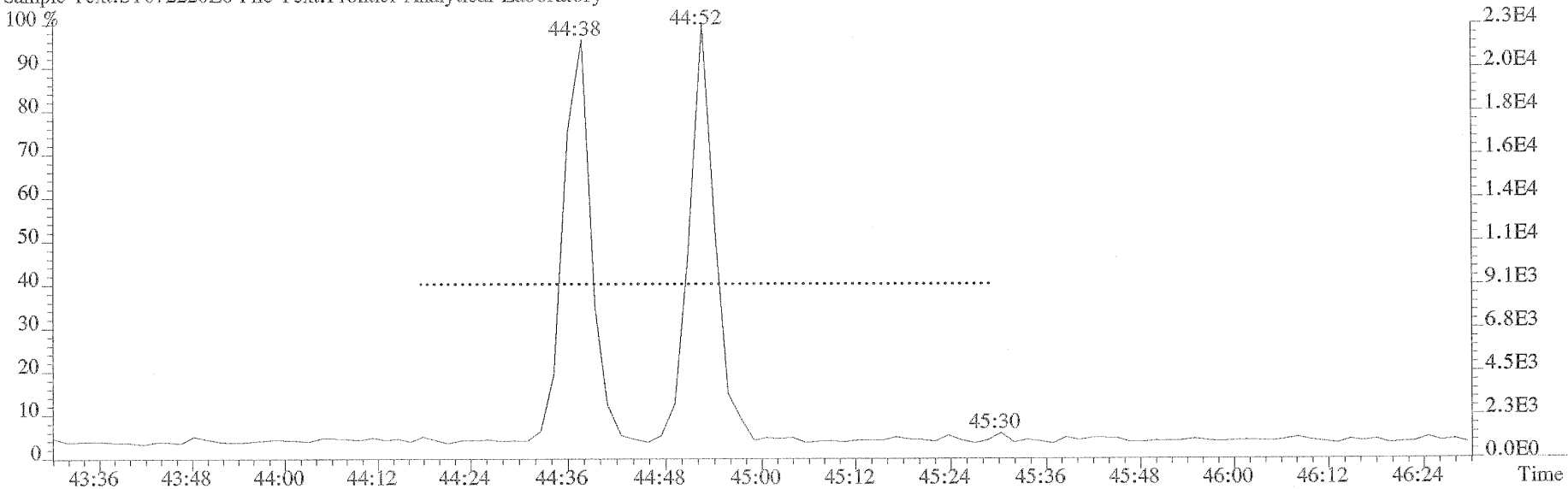




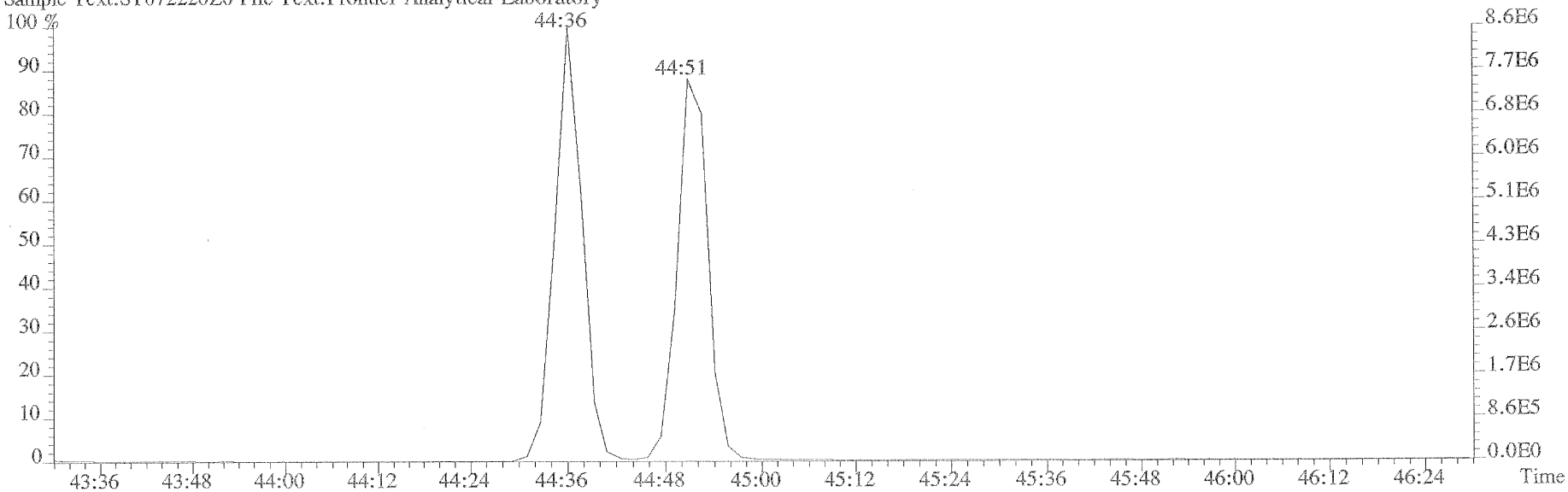




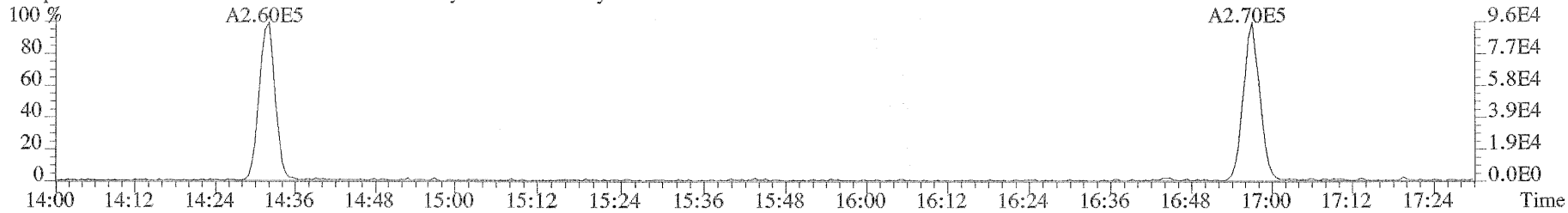
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



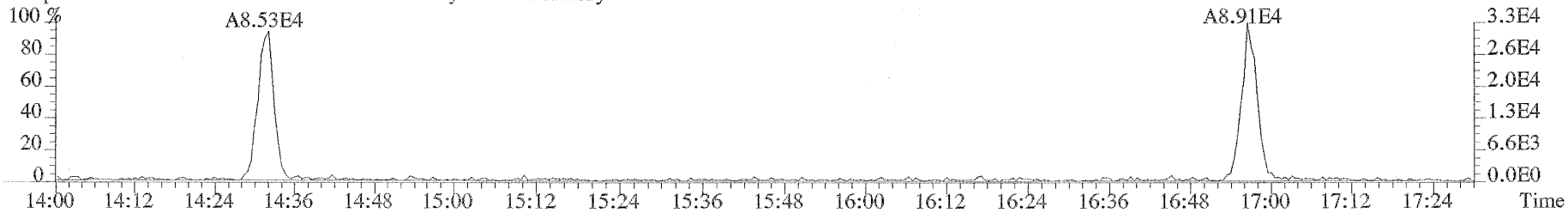
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



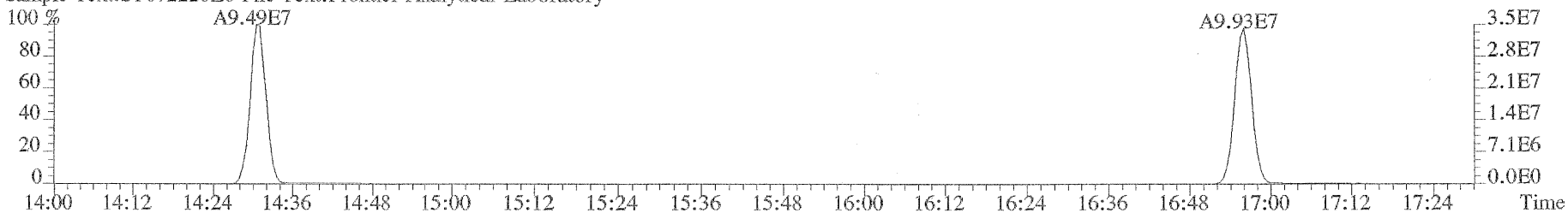
File:22JUL20Z #1-784 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



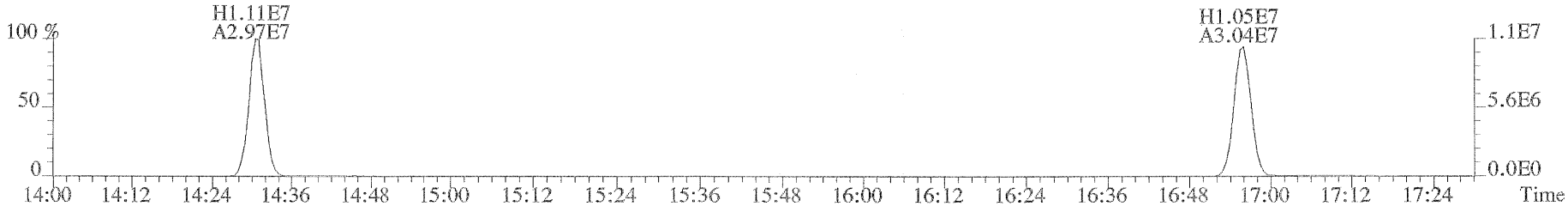
File:22JUL20Z #1-784 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



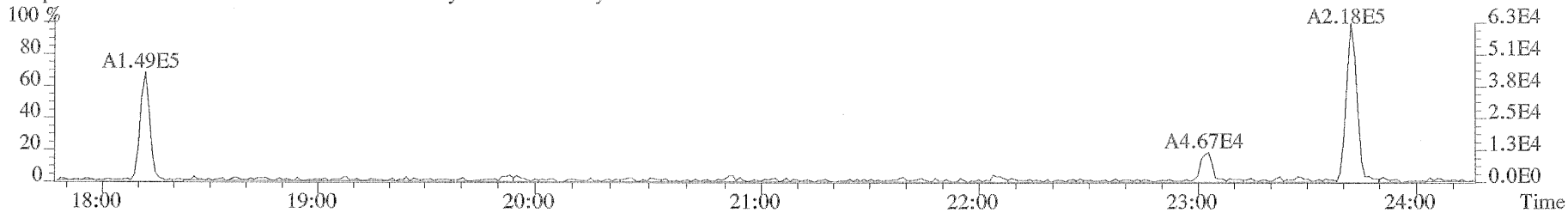
File:22JUL20Z #1-784 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



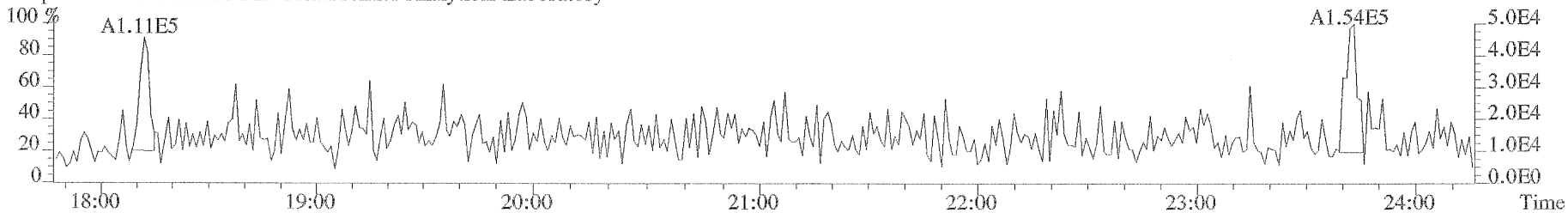
File:22JUL20Z #1-784 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



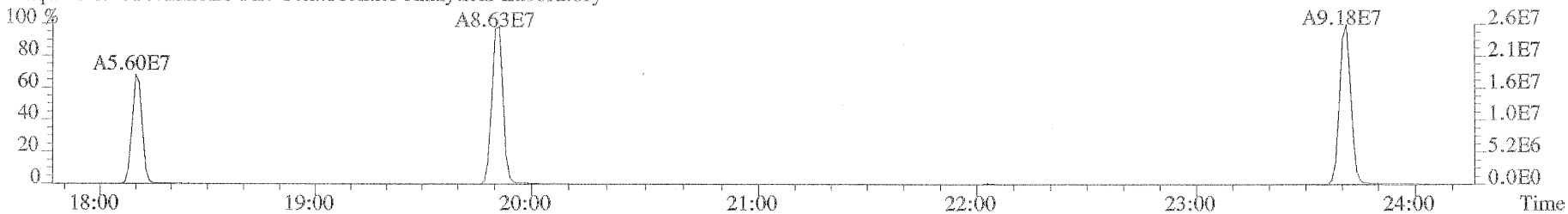
File:22JUL20Z #1-467 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



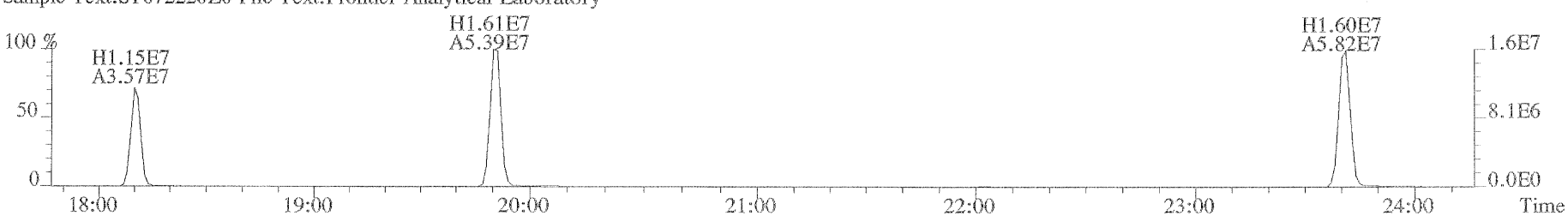
File:22JUL20Z #1-467 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
223.9975 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-467 Acq:22-JUL-2020 08:04:10 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:ST072220Z0 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-467 Acq:22-JUL-2020 08:04:10 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:ST072220Z0 File Text:Frontier Analytical Laboratory



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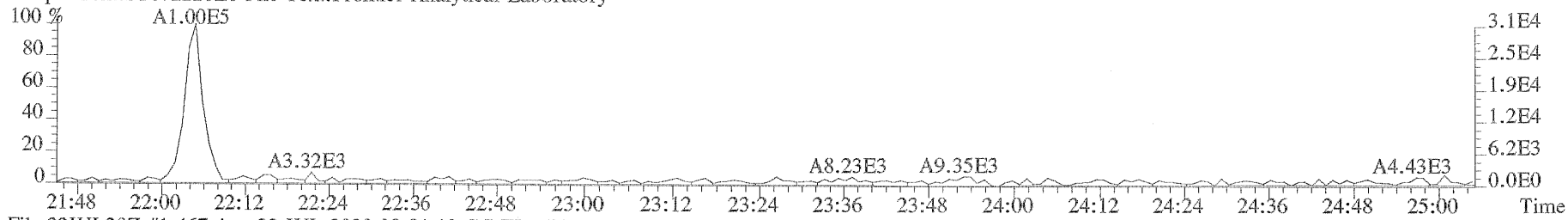
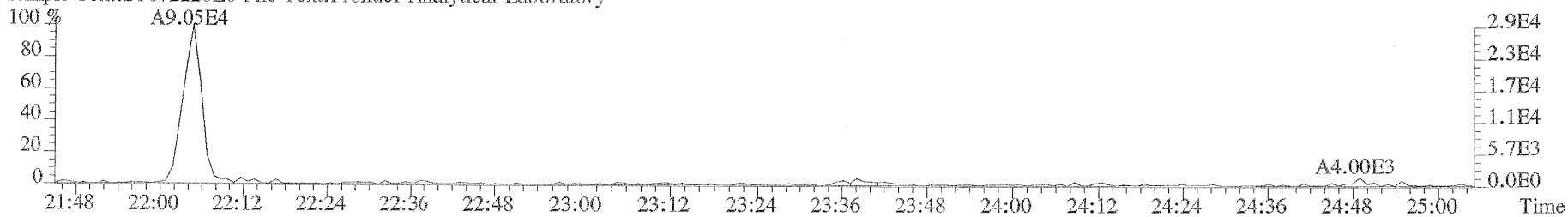
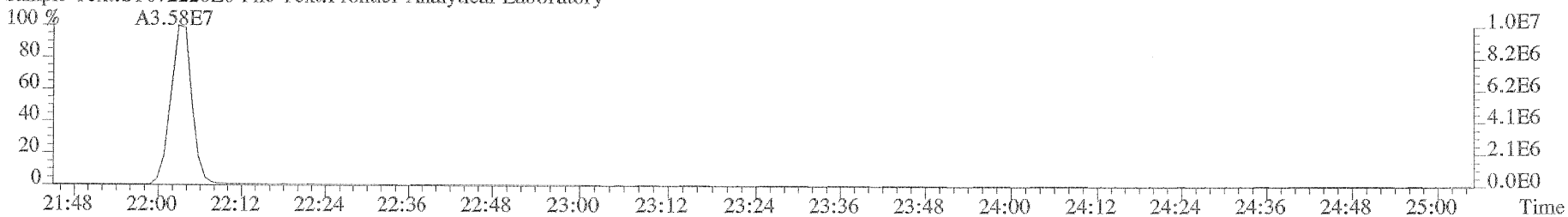
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



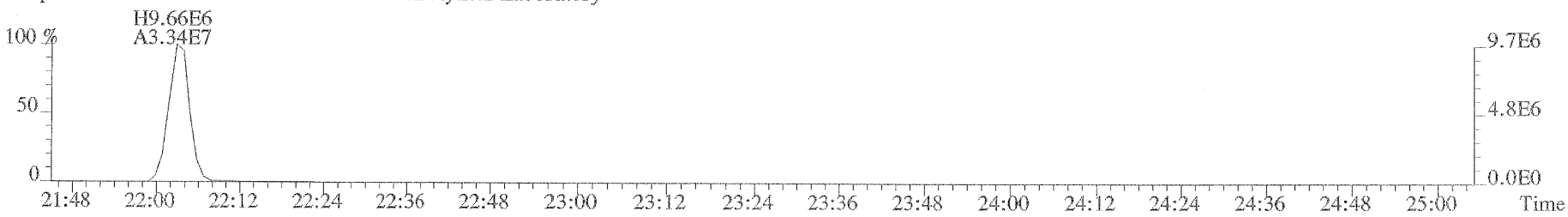
File:22JUL20Z #1-467 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



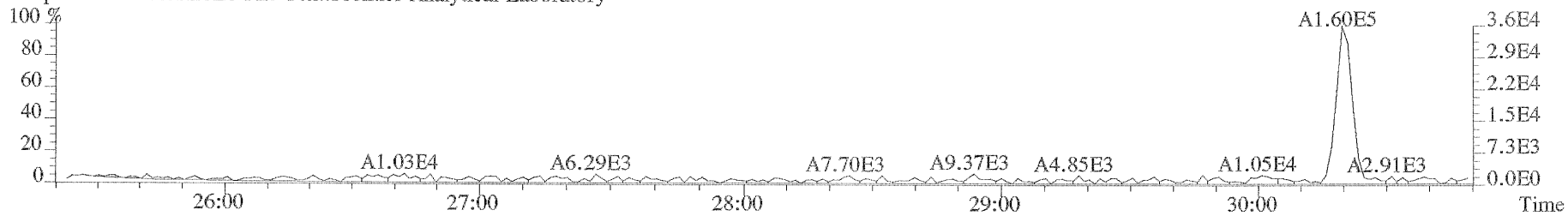
File:22JUL20Z #1-467 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



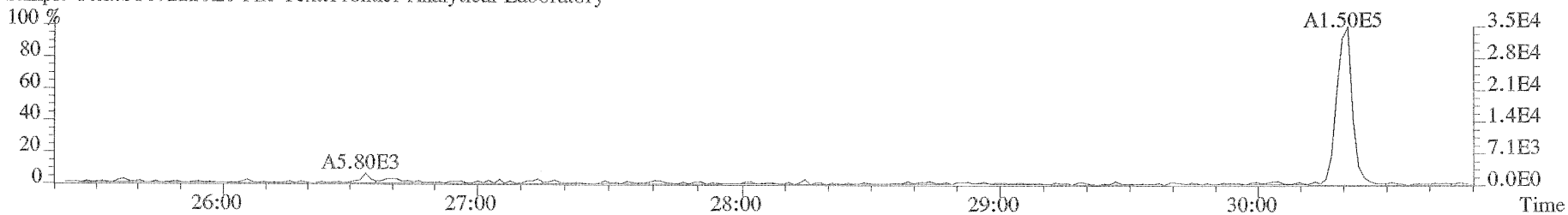
File:22JUL20Z #1-467 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



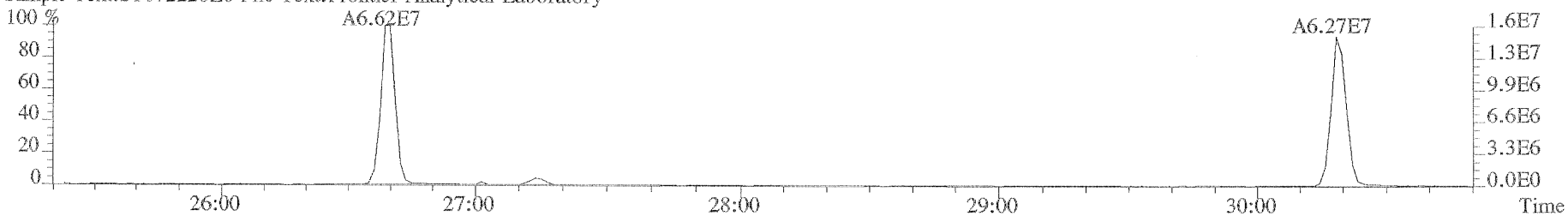
File:22JUL20Z #1-401 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



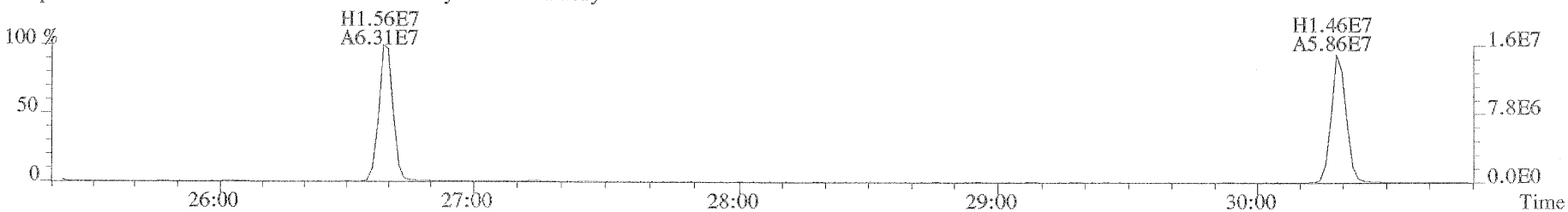
File:22JUL20Z #1-401 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



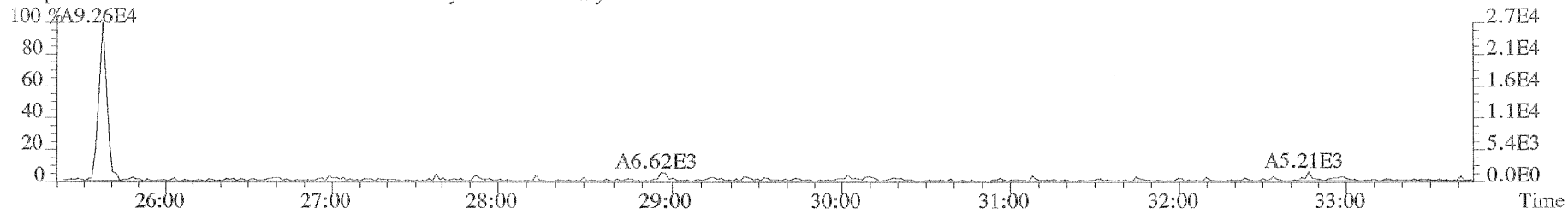
File:22JUL20Z #1-401 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



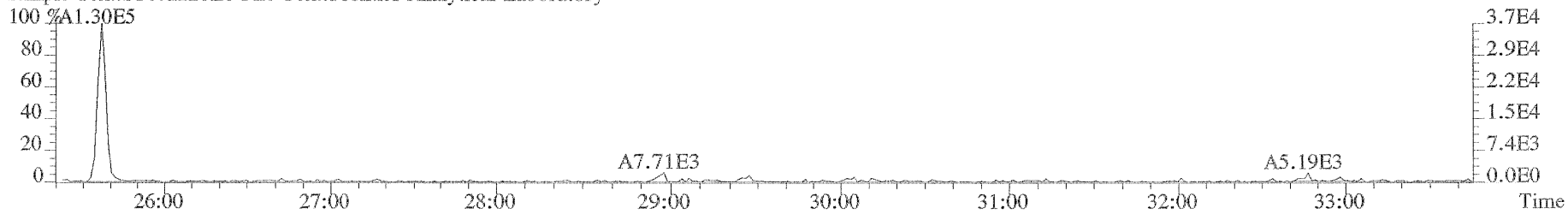
File:22JUL20Z #1-401 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-401 Acq:22-JUL-2020 08:04:10 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:ST072220Z0 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-401 Acq:22-JUL-2020 08:04:10 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:ST072220Z0 File Text:Frontier Analytical Laboratory



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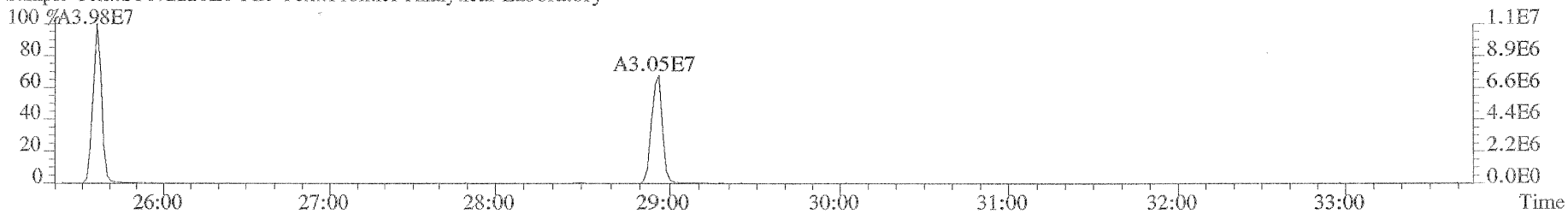
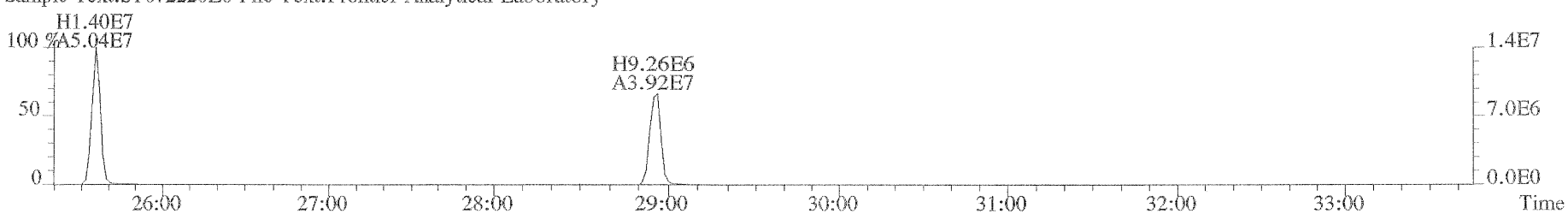
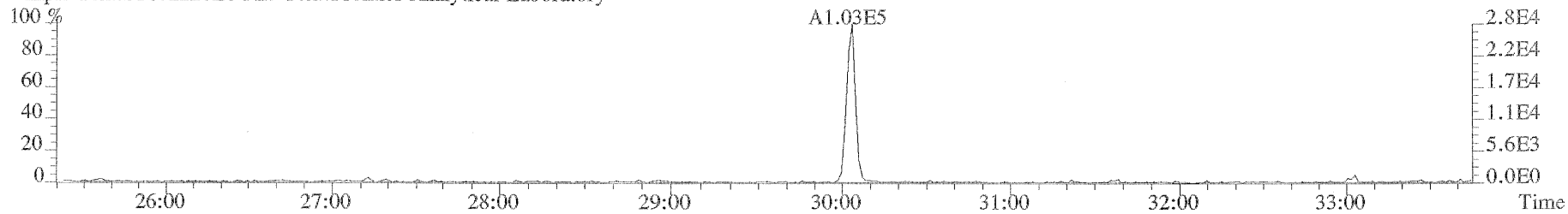
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



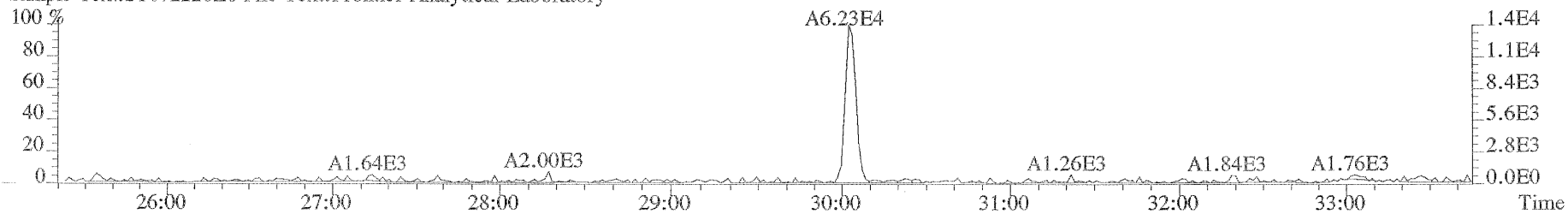
File:22JUL20Z #1-401 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



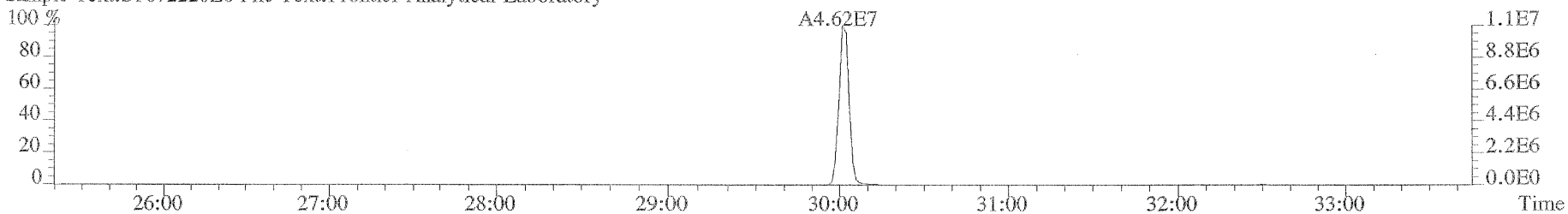
File:22JUL20Z #1-401 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-401 Acq:22-JUL-2020 08:04:10 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:ST072220Z0 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-401 Acq:22-JUL-2020 08:04:10 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:ST072220Z0 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-401 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
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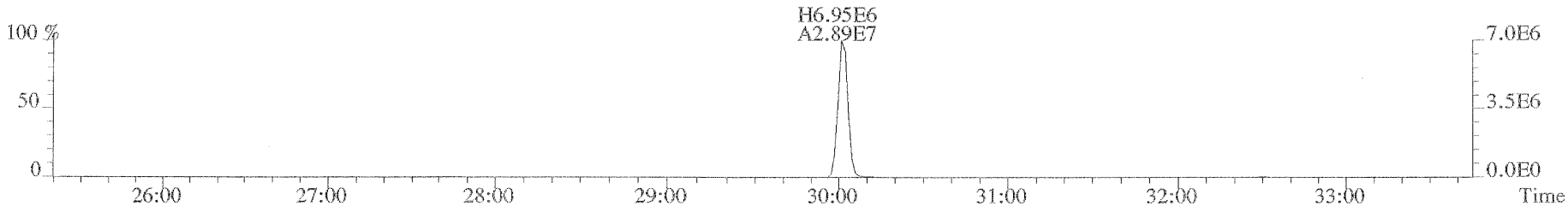
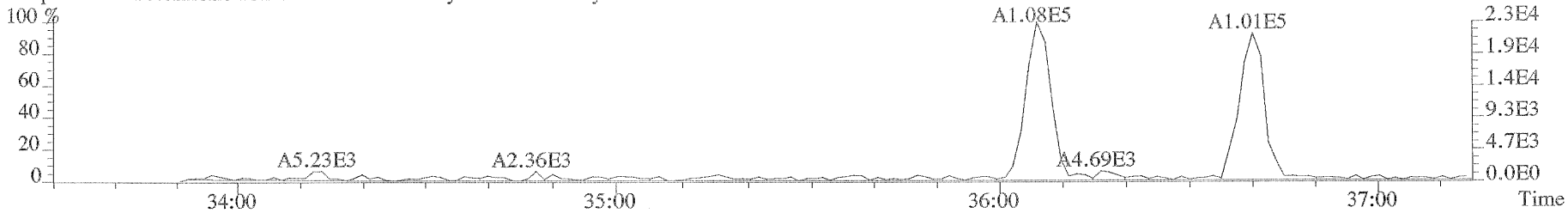
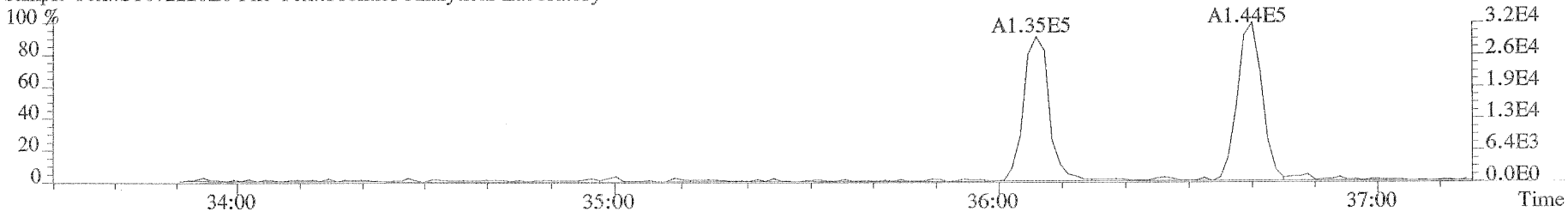


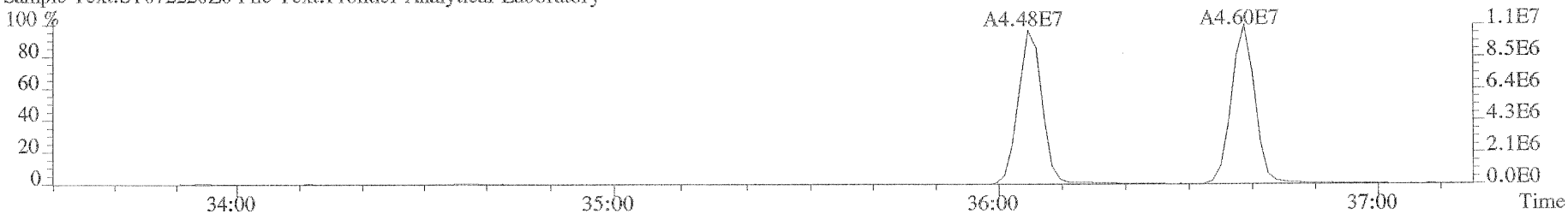
File:22JUL20Z #1-180 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



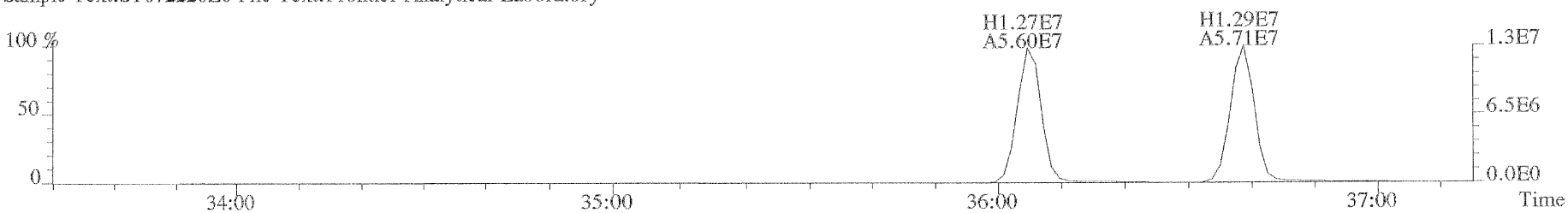
File:22JUL20Z #1-180 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



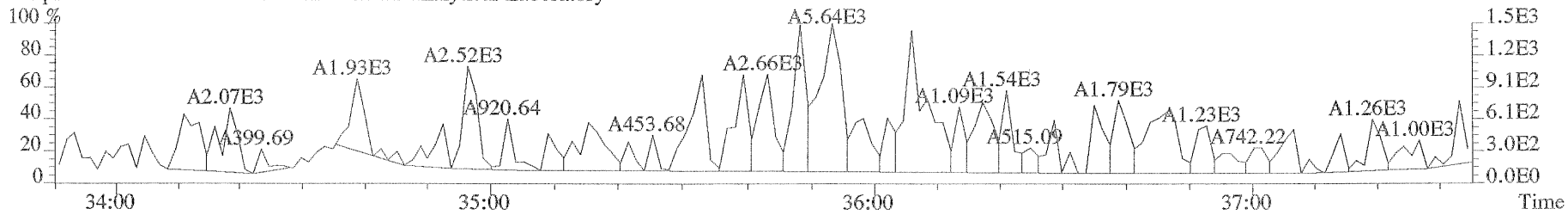
File:22JUL20Z #1-180 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



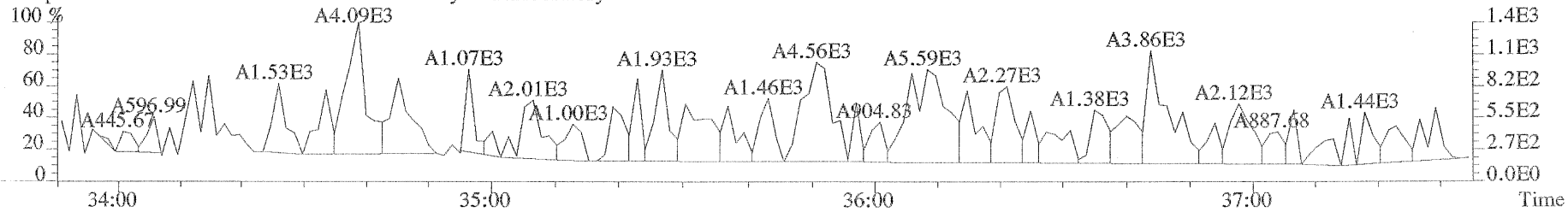
File:22JUL20Z #1-180 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



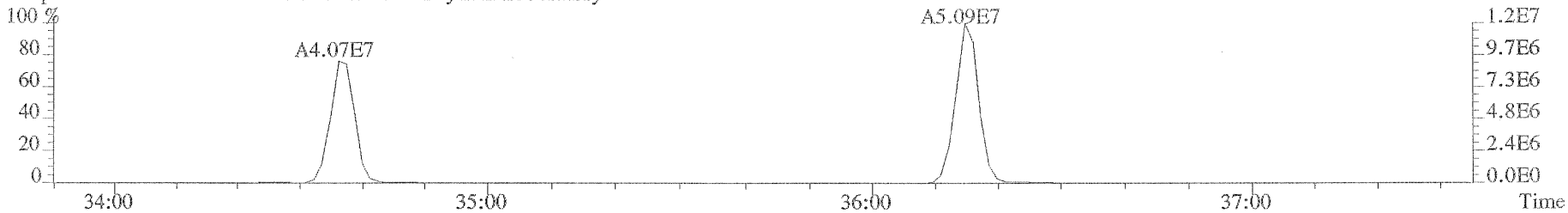
File:22JUL20Z #1-180 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



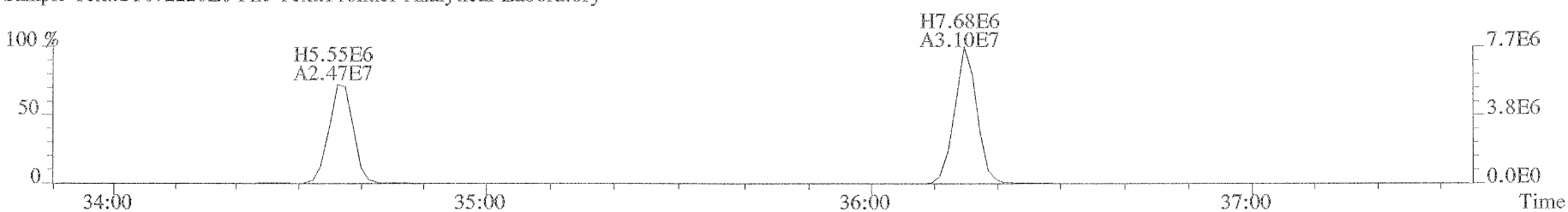
File:22JUL20Z #1-180 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



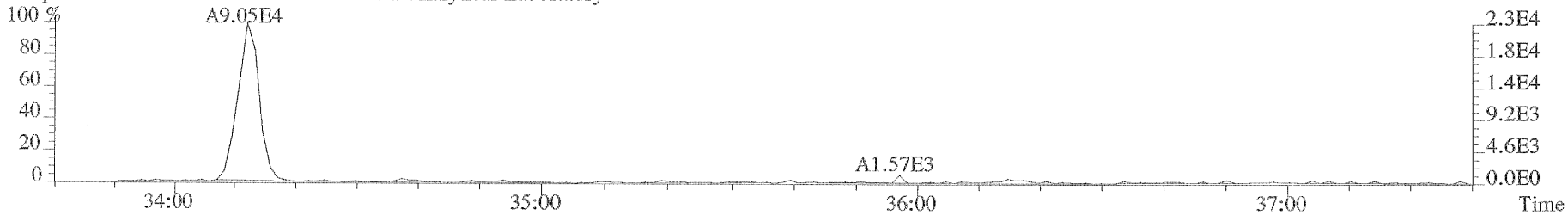
File:22JUL20Z #1-180 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



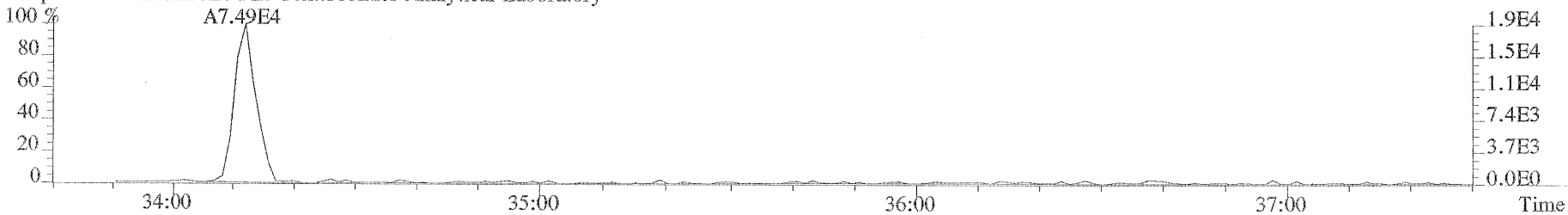
File:22JUL20Z #1-180 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



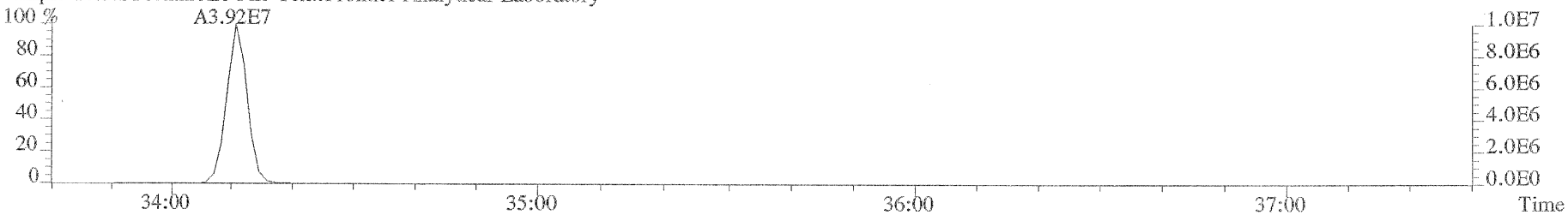
File:22JUL20Z #1-180 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



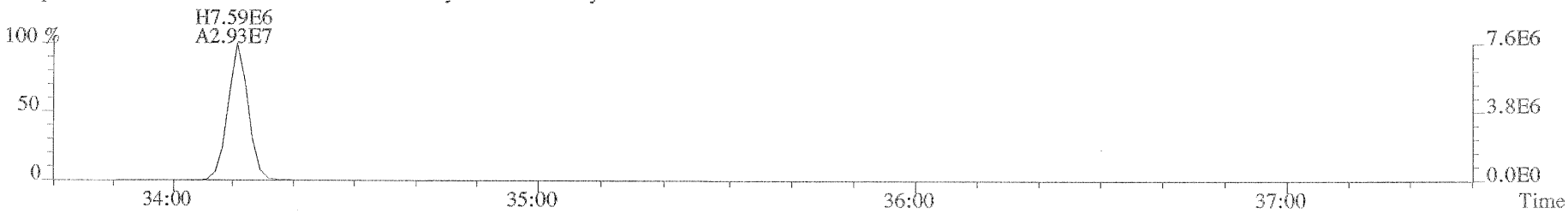
File:22JUL20Z #1-180 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



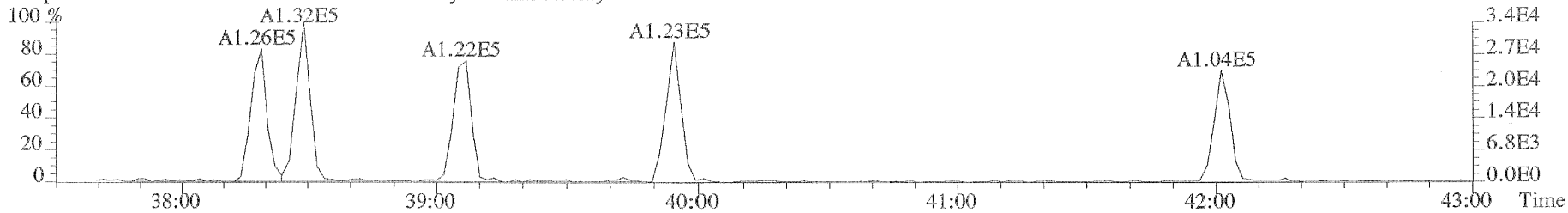
File:22JUL20Z #1-180 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



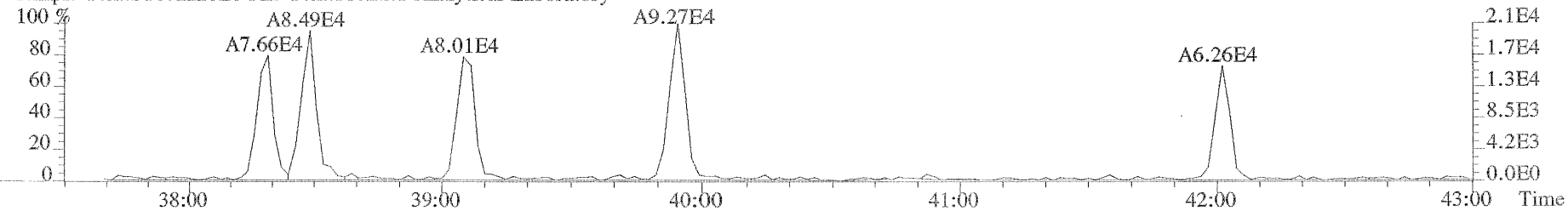
File:22JUL20Z #1-180 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



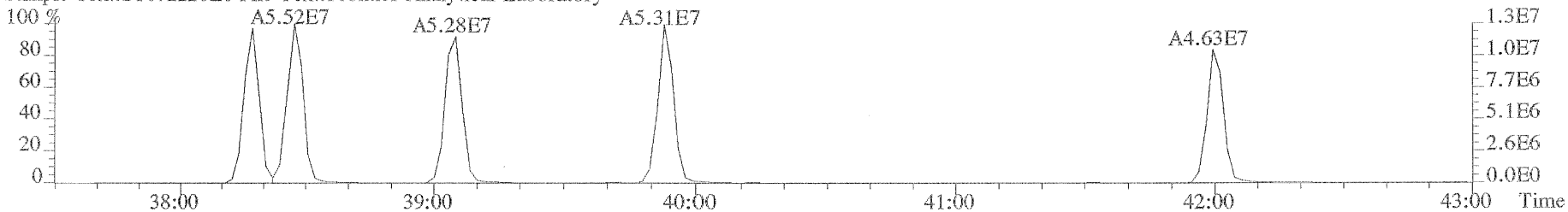
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



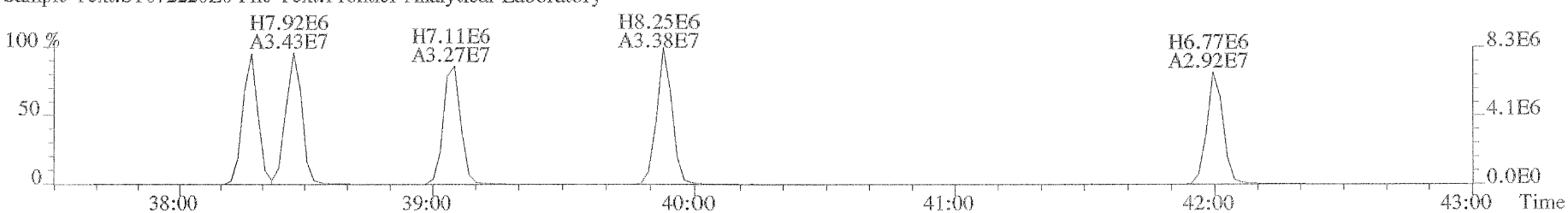
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



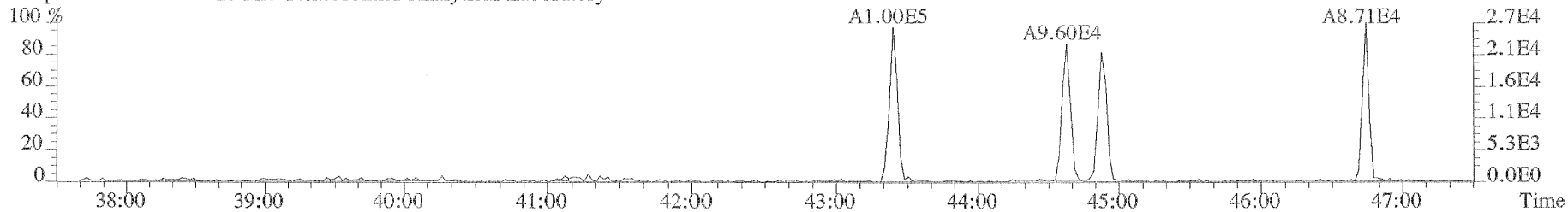
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



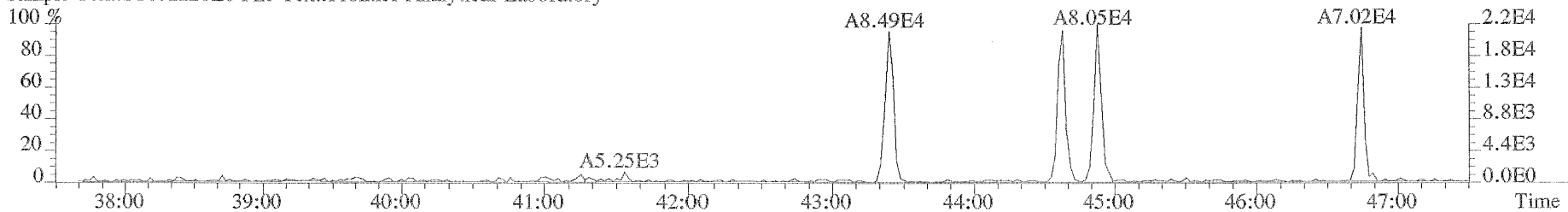
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



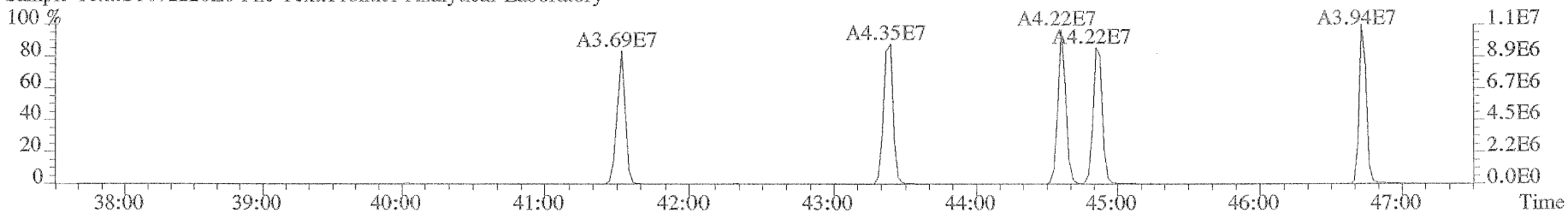
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



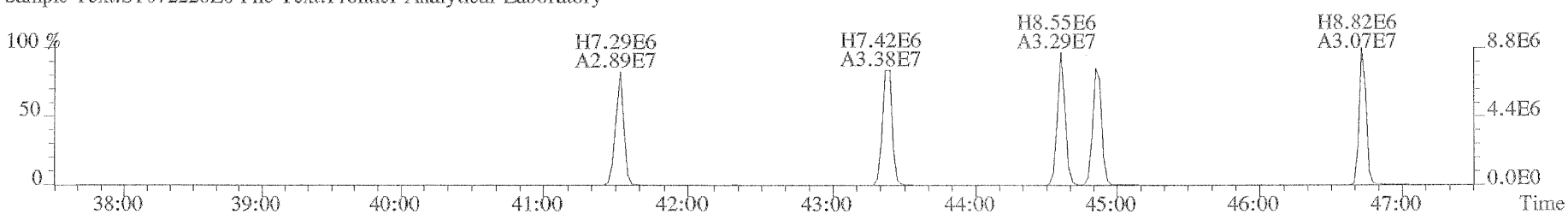
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



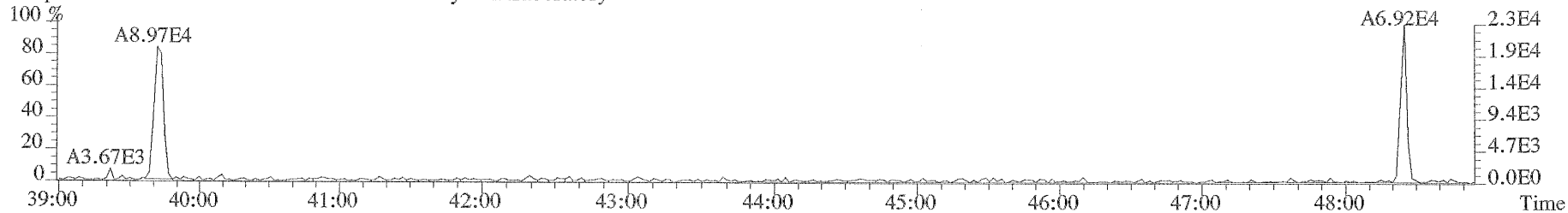
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



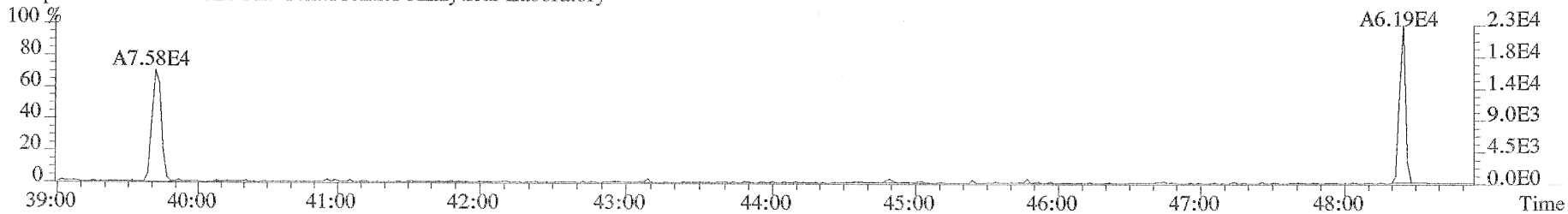
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



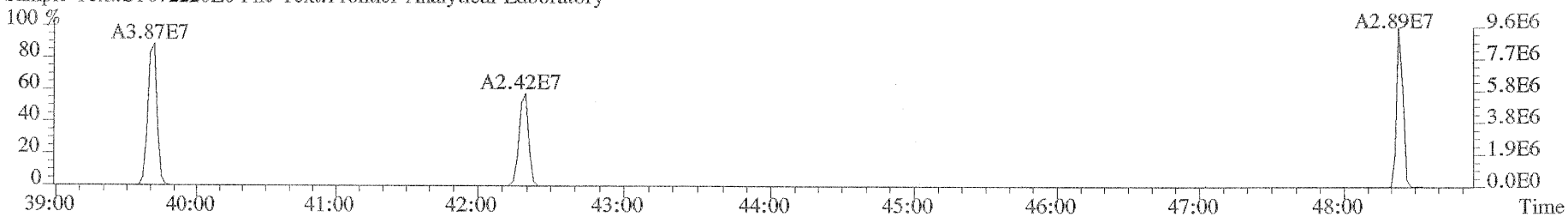
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



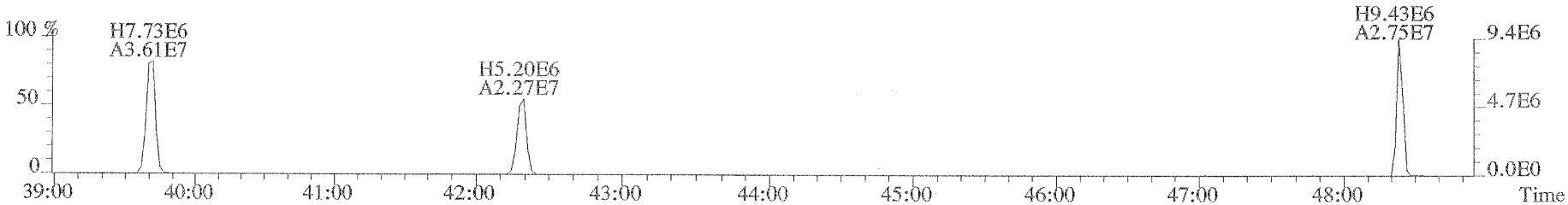
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



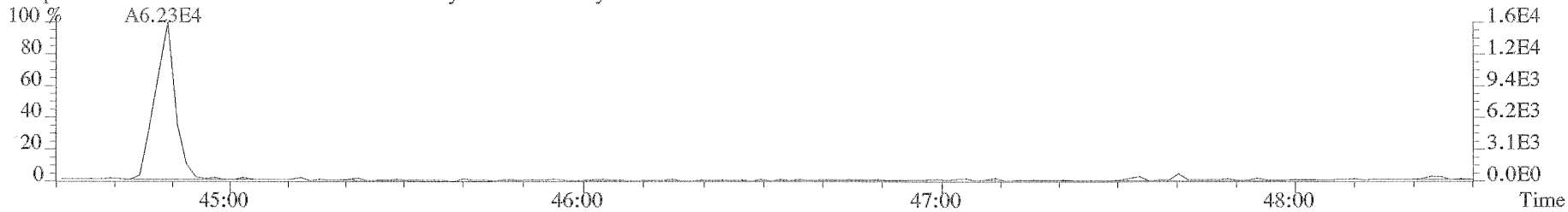
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



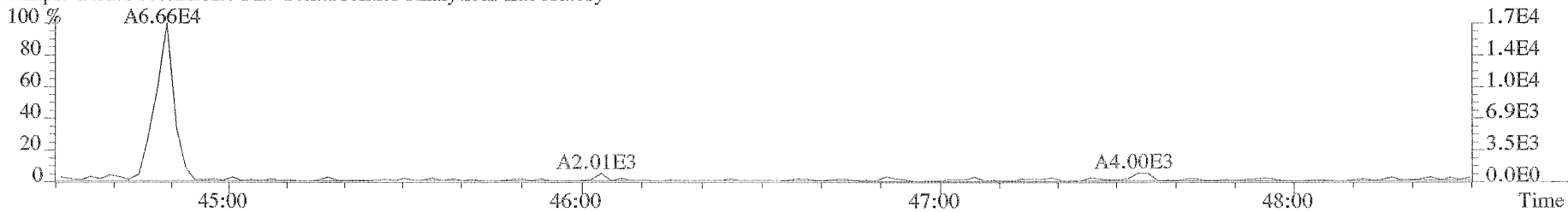
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



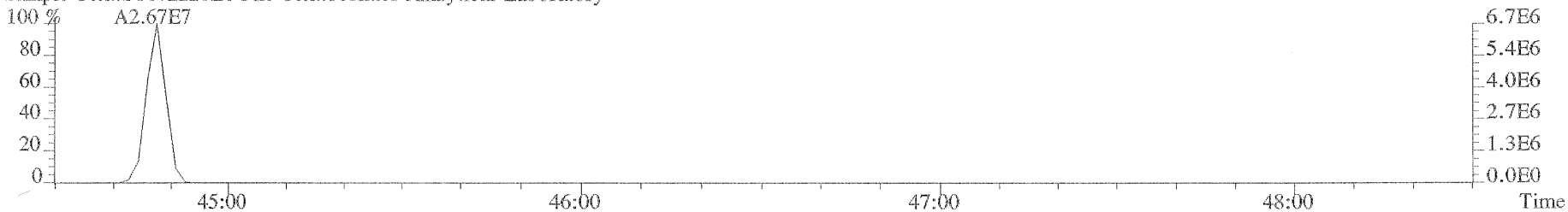
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



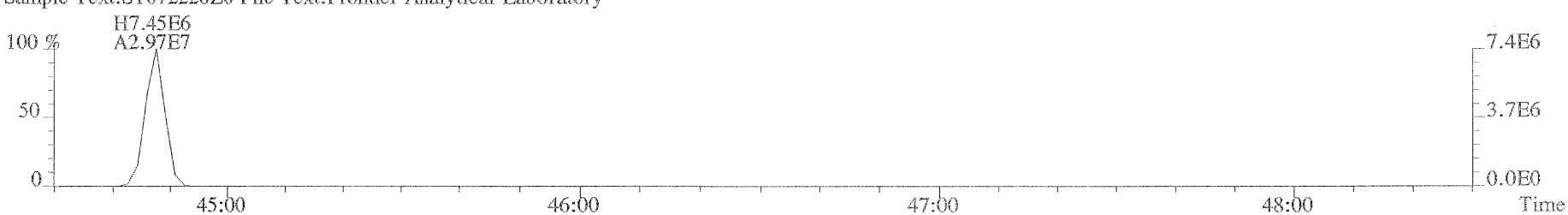
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



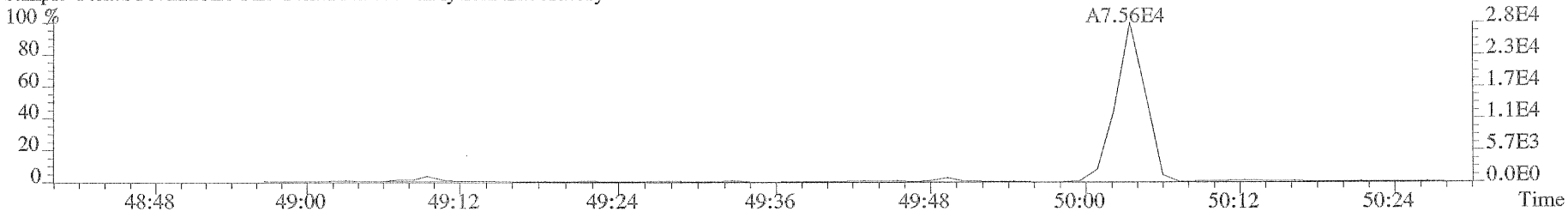
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



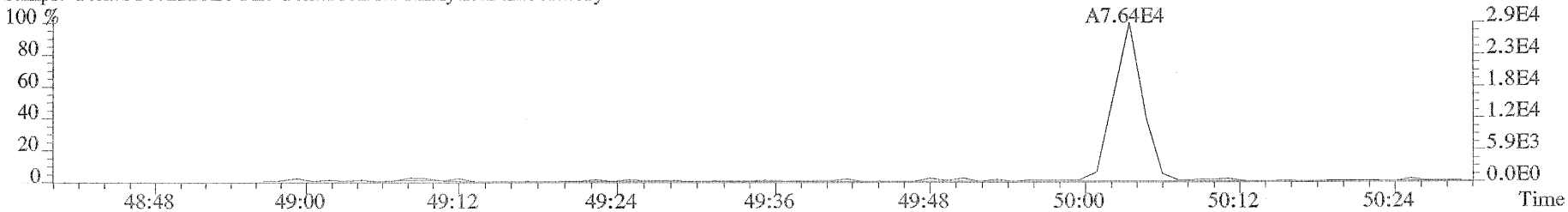
File:22JUL20Z #1-411 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



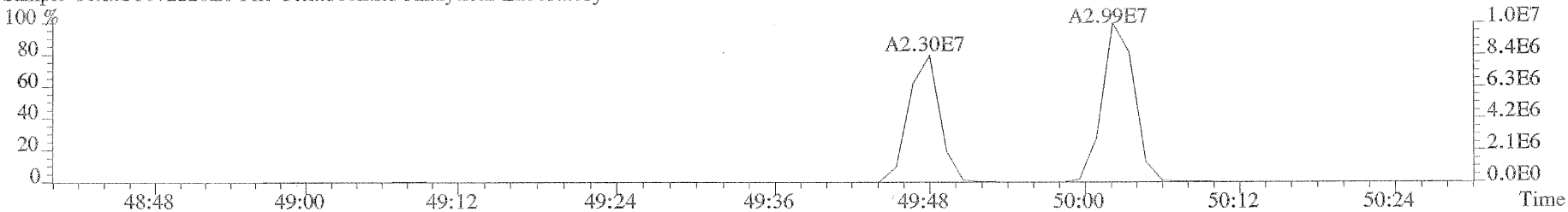
File:22JUL20Z #1-308 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



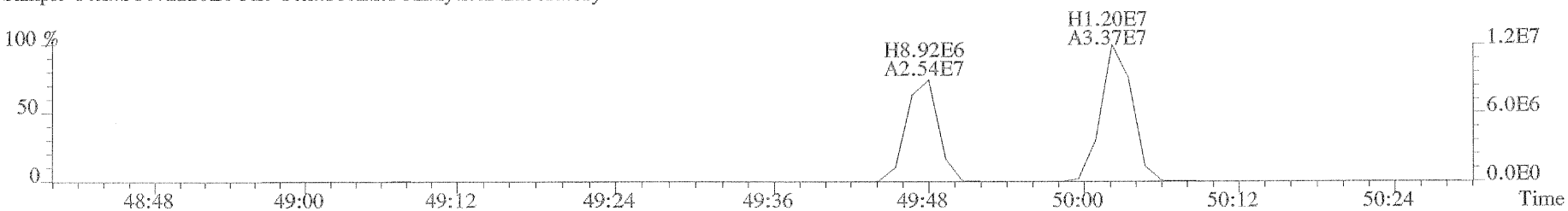
File:22JUL20Z #1-308 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



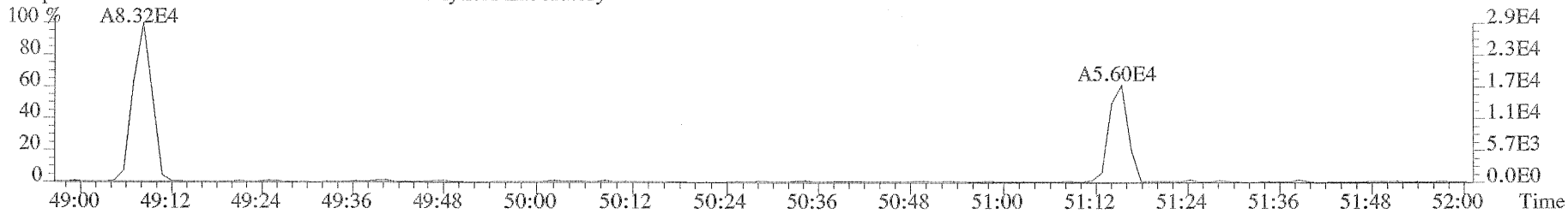
File:22JUL20Z #1-308 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



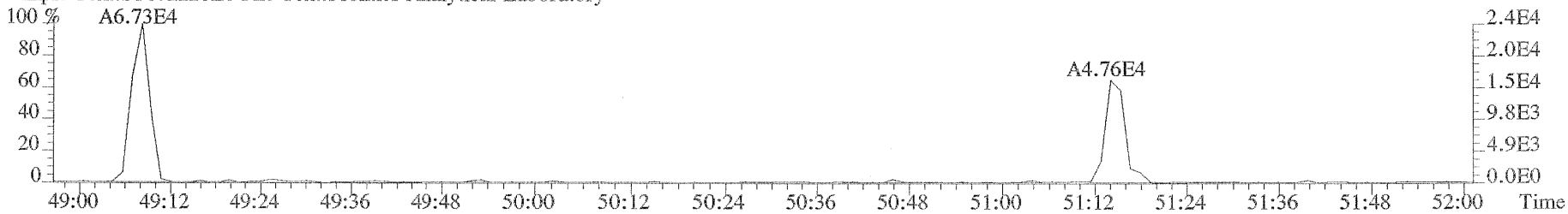
File:22JUL20Z #1-308 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



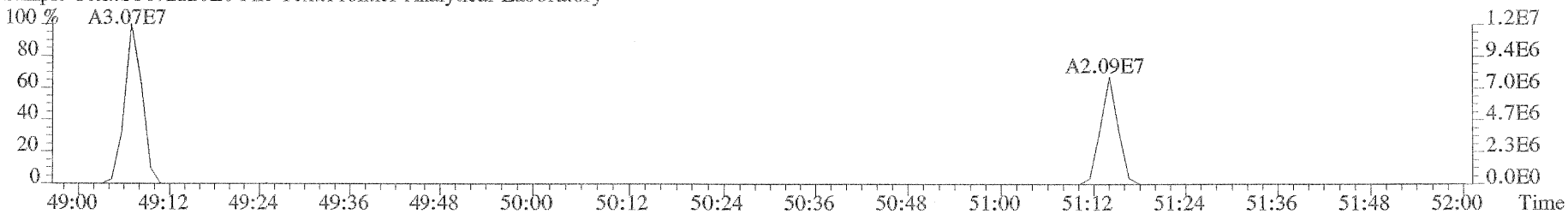
File:22JUL20Z #1-308 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



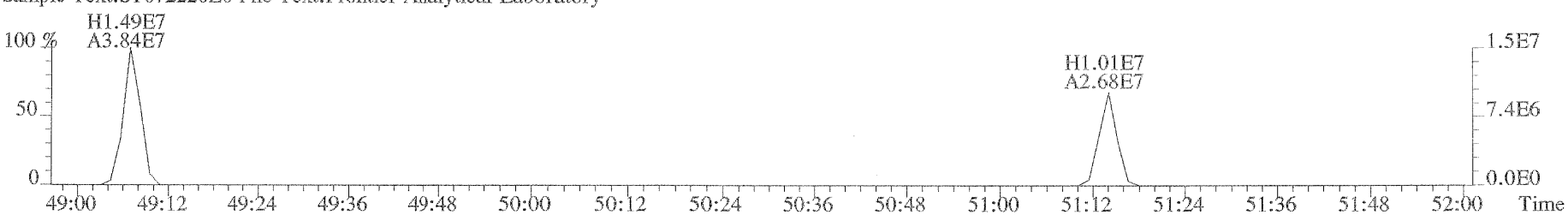
File:22JUL20Z #1-308 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



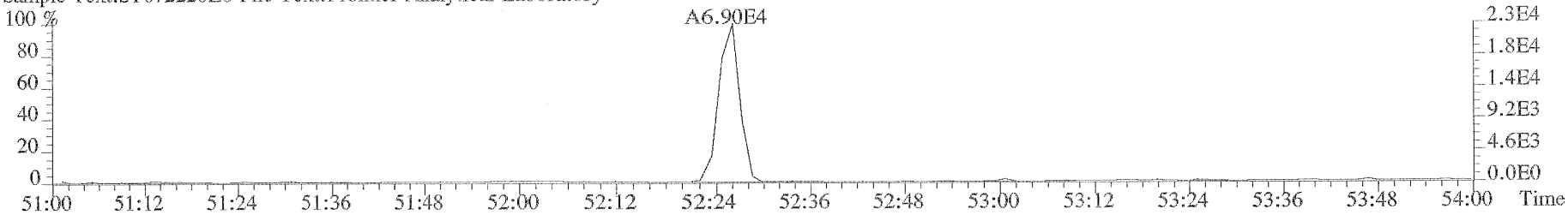
File:22JUL20Z #1-308 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



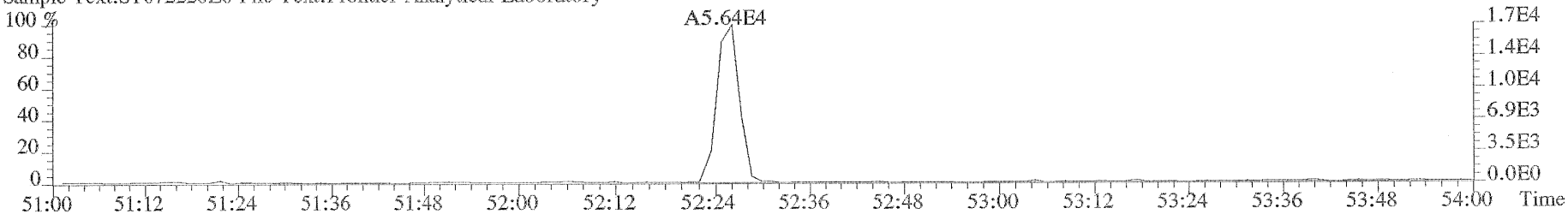
File:22JUL20Z #1-308 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



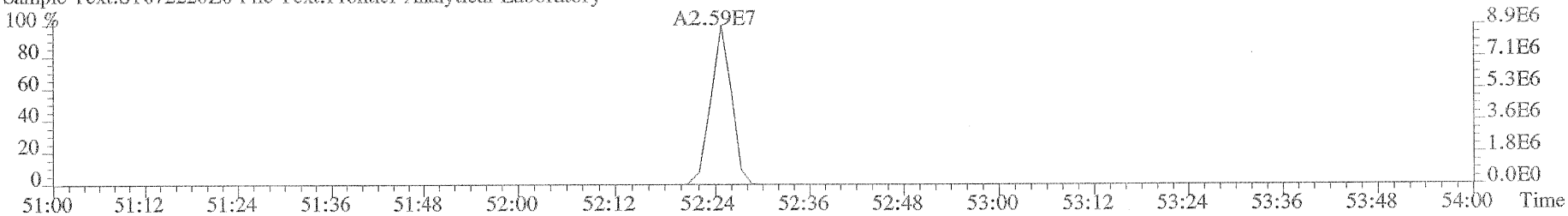
File:22JUL20Z #1-308 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



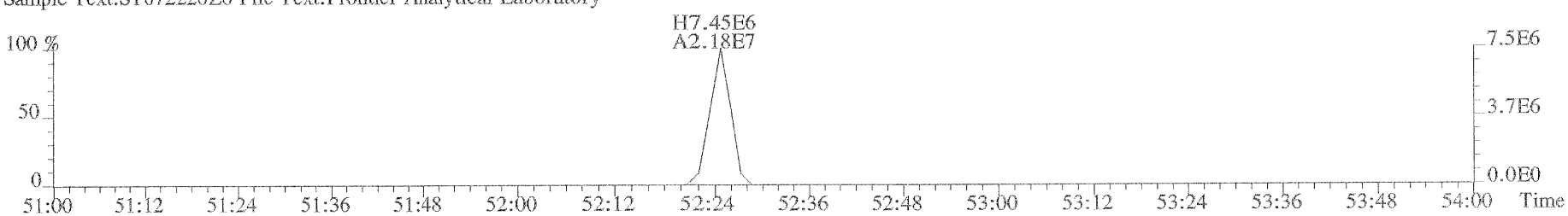
File:22JUL20Z #1-308 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



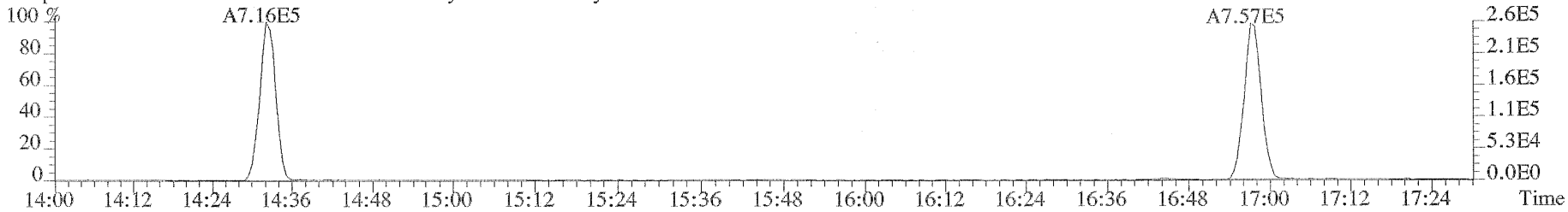
File:22JUL20Z #1-308 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



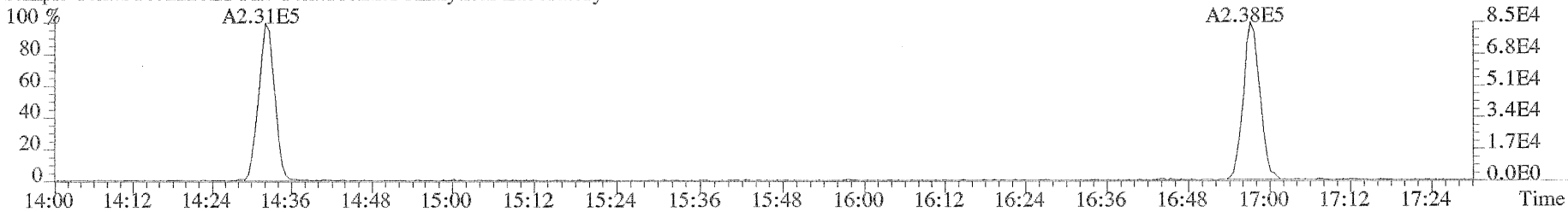
File:22JUL20Z #1-308 Acq:22-JUL-2020 08:04:10 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z0 File Text:Frontier Analytical Laboratory



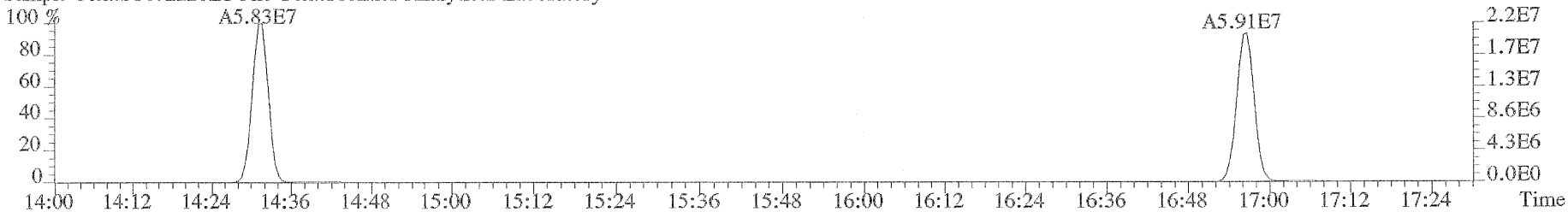
File:22JUL20Z #1-784 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



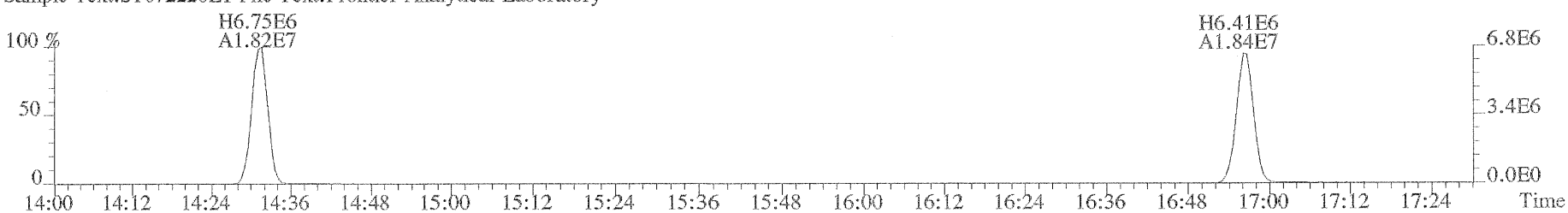
File:22JUL20Z #1-784 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



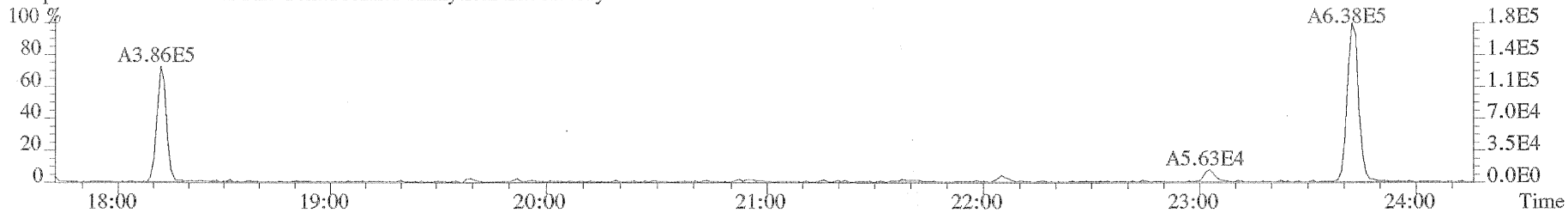
File:22JUL20Z #1-784 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



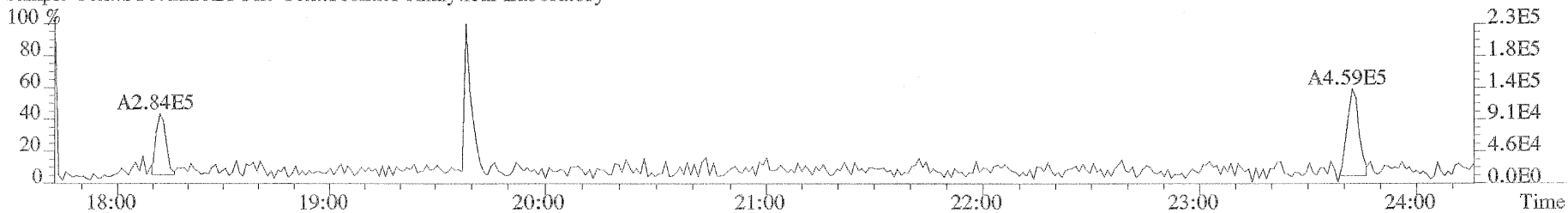
File:22JUL20Z #1-784 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



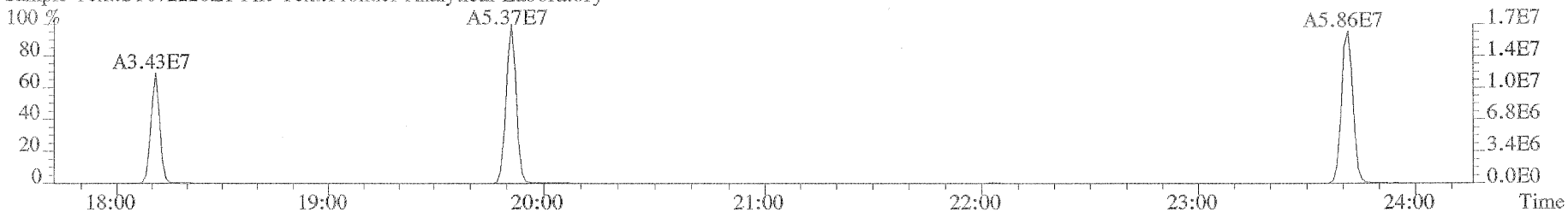
File:22JUL20Z #1-467 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



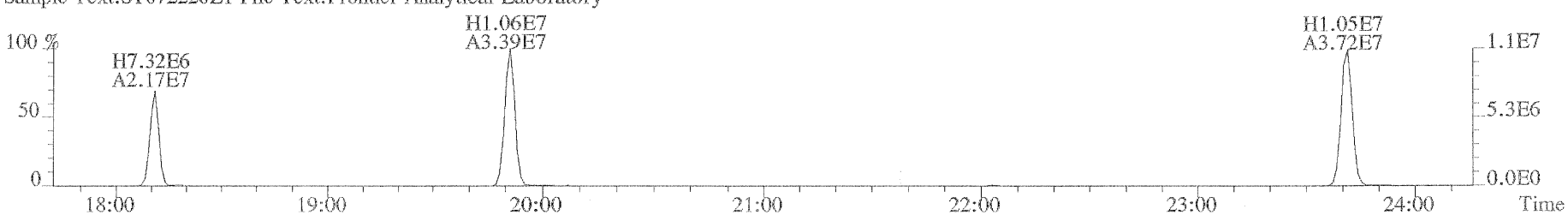
File:22JUL20Z #1-467 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



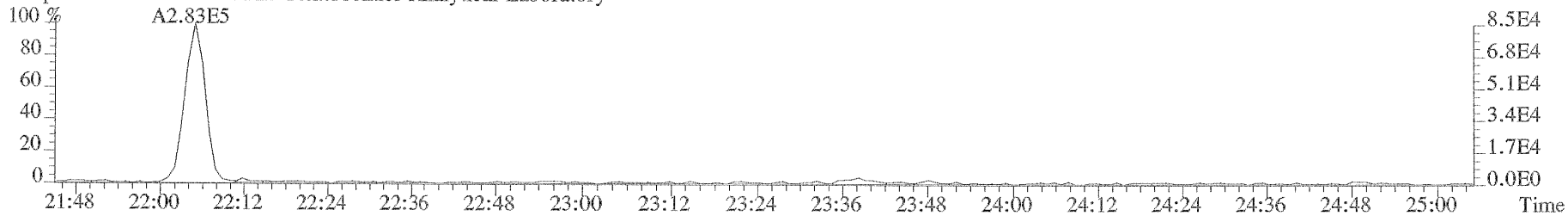
File:22JUL20Z #1-467 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



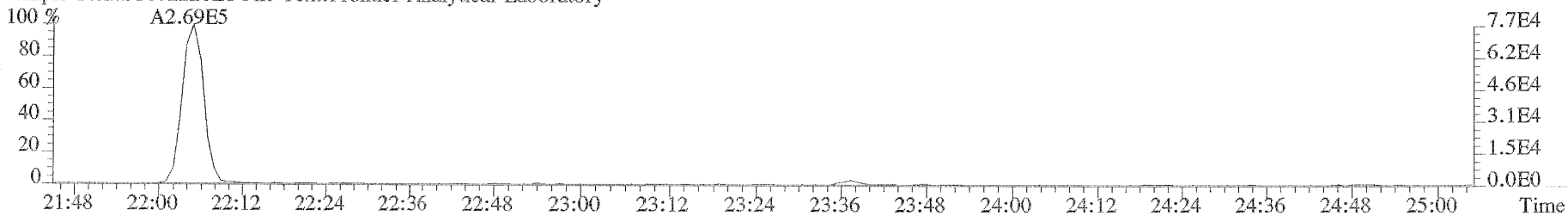
File:22JUL20Z #1-467 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



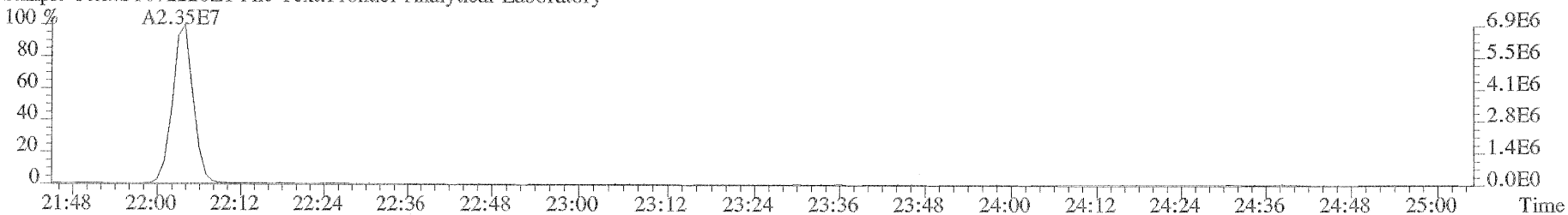
File:22JUL20Z #1-467 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



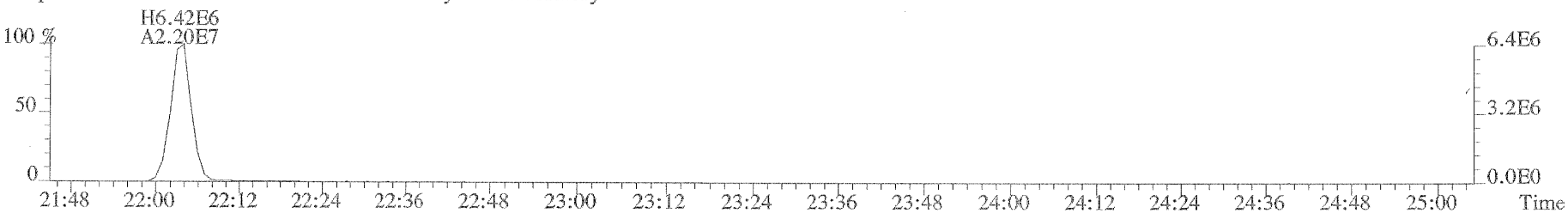
File:22JUL20Z #1-467 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



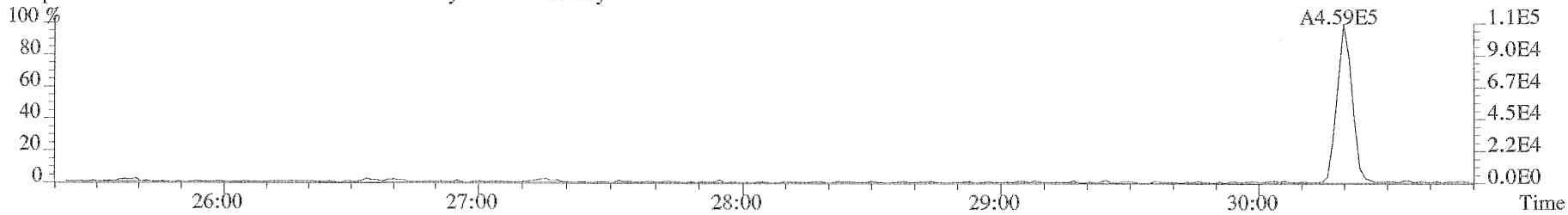
File:22JUL20Z #1-467 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



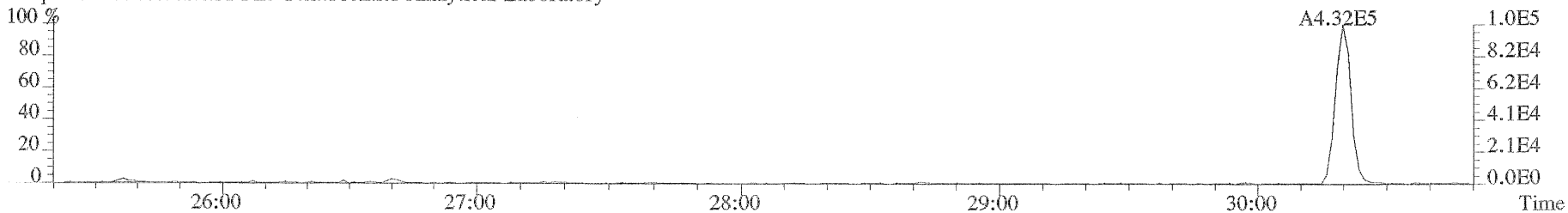
File:22JUL20Z #1-467 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



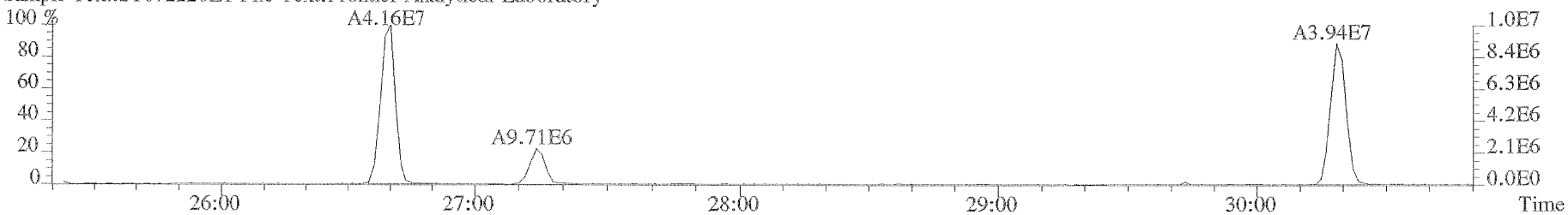
File:22JUL20Z #1-401 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



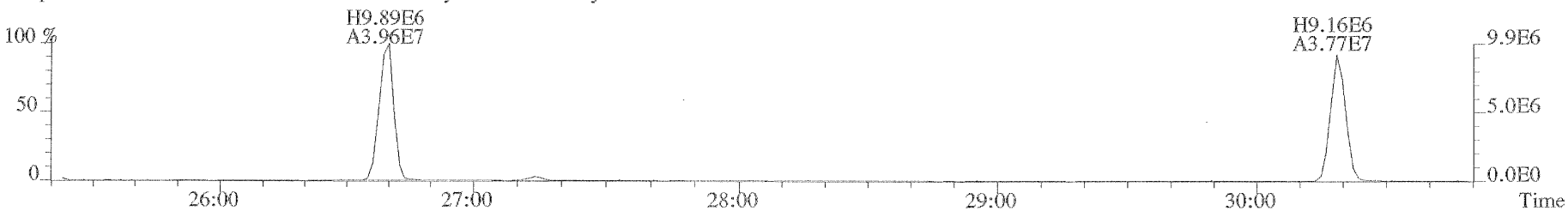
File:22JUL20Z #1-401 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



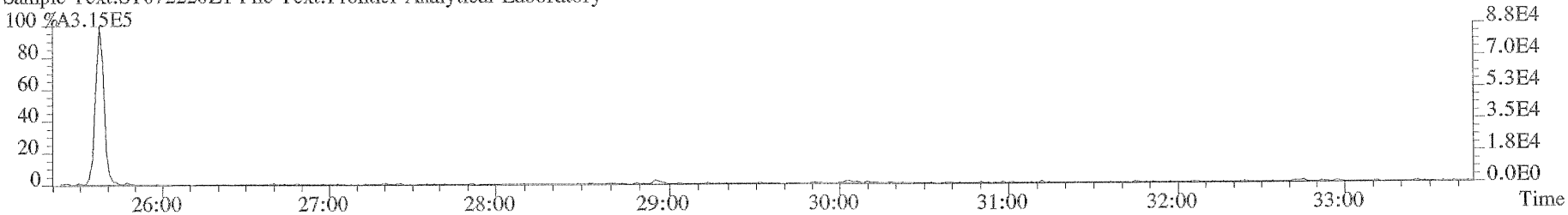
File:22JUL20Z #1-401 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



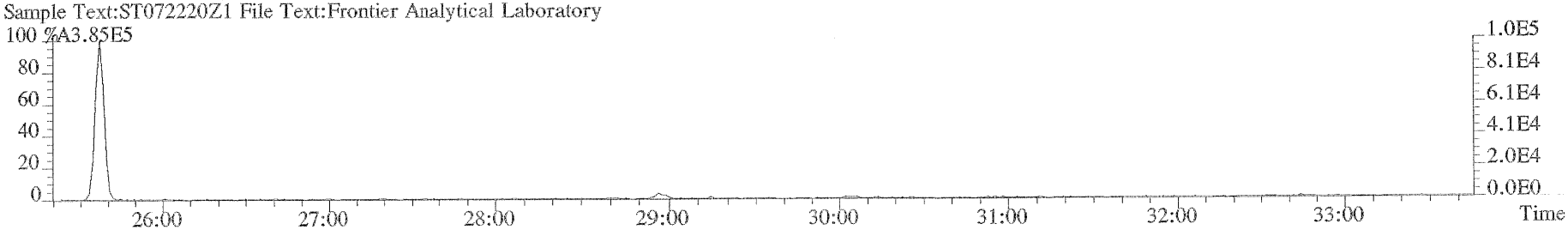
File:22JUL20Z #1-401 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



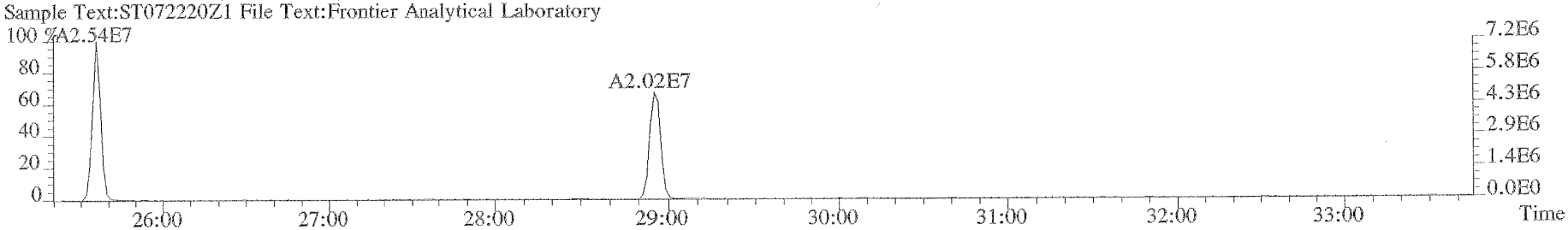
File:22JUL20Z #1-401 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



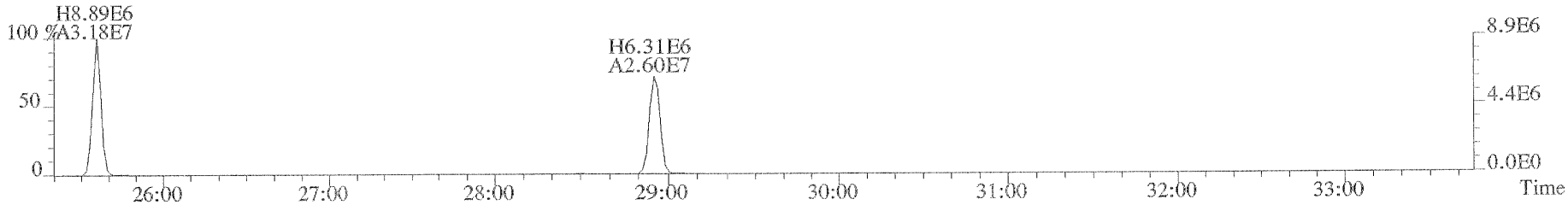
File:22JUL20Z #1-401 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



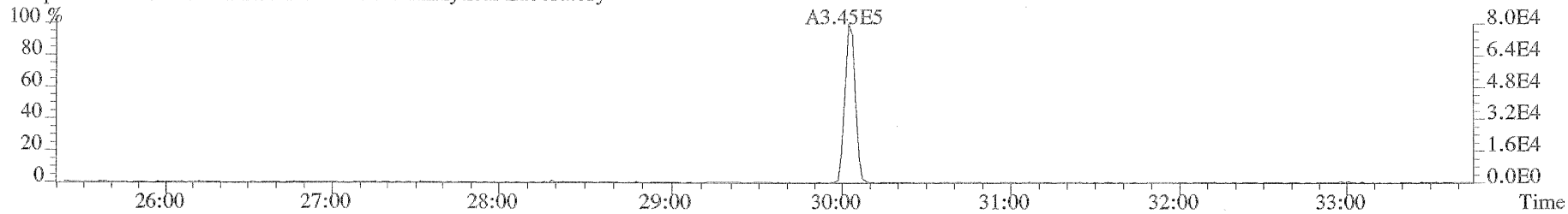
File:22JUL20Z #1-401 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



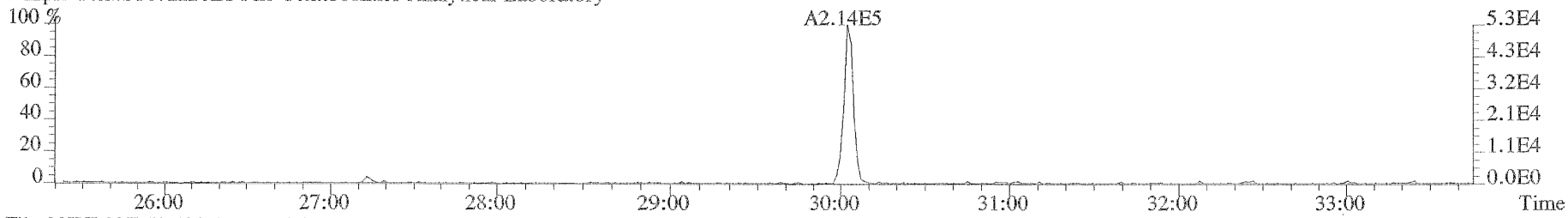
File:22JUL20Z #1-401 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



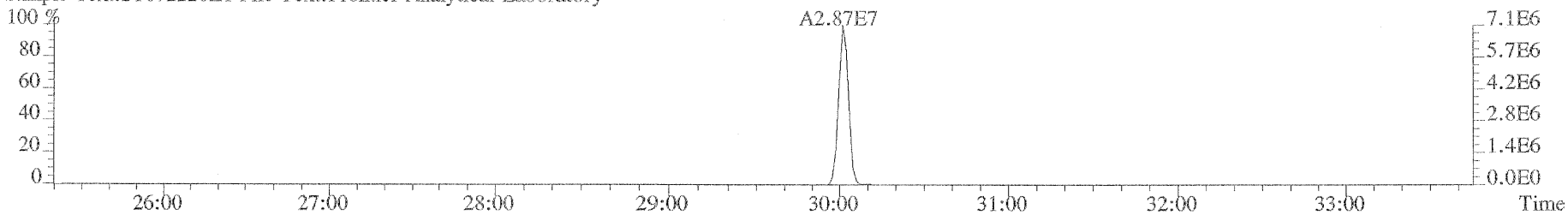
File:22JUL20Z #1-401 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



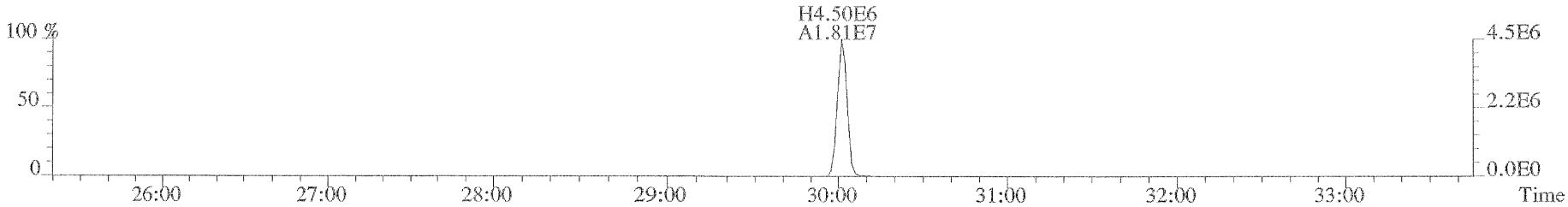
File:22JUL20Z #1-401 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



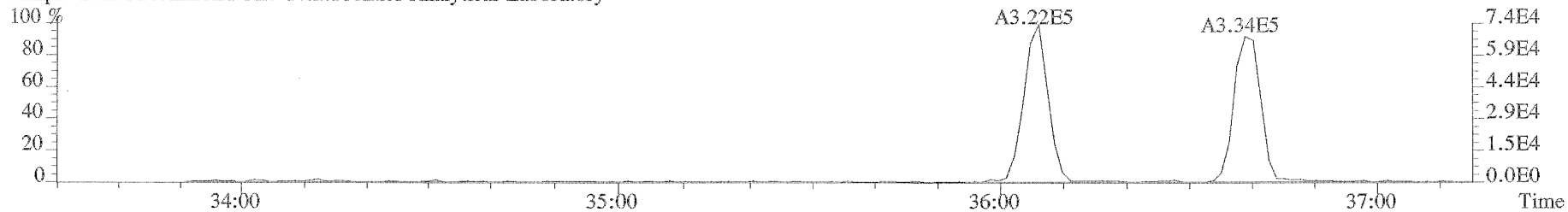
File:22JUL20Z #1-401 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



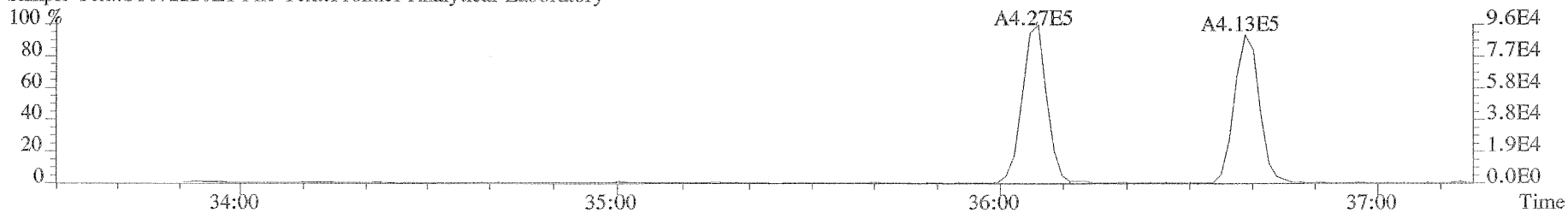
File:22JUL20Z #1-401 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



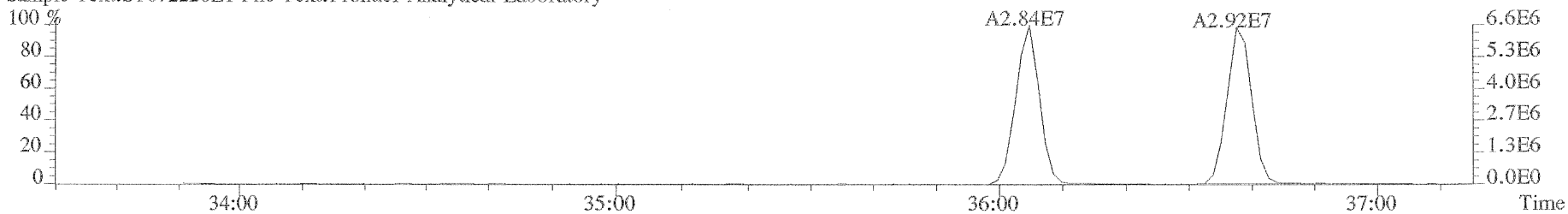
File:22JUL20Z #1-180 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



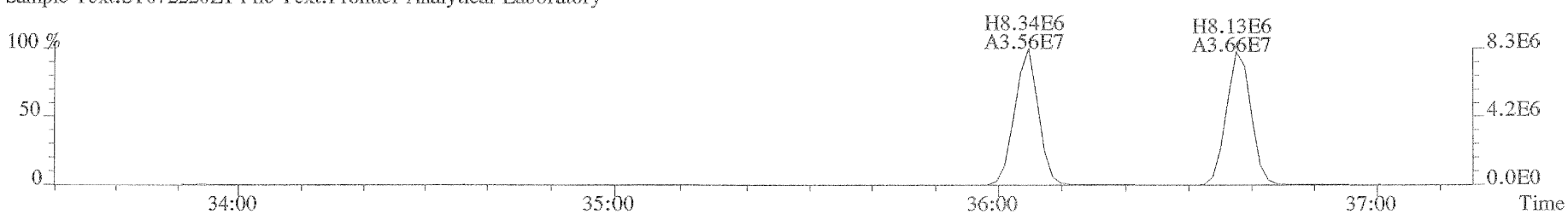
File:22JUL20Z #1-180 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



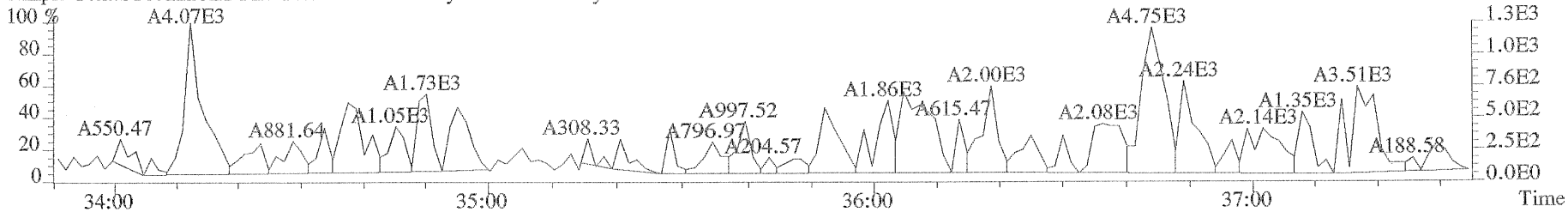
File:22JUL20Z #1-180 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



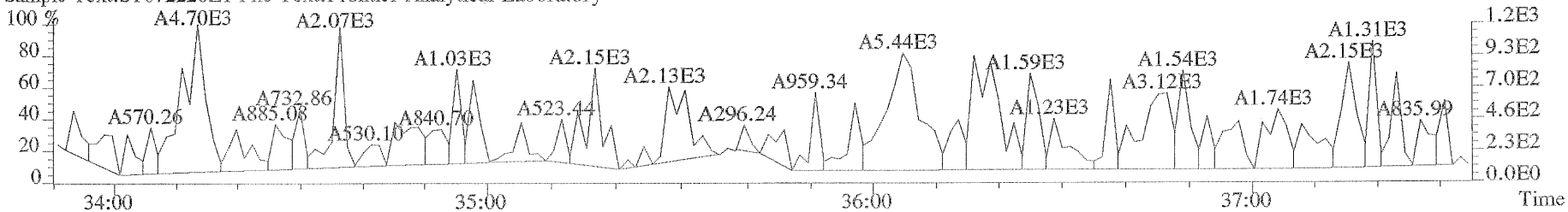
File:22JUL20Z #1-180 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



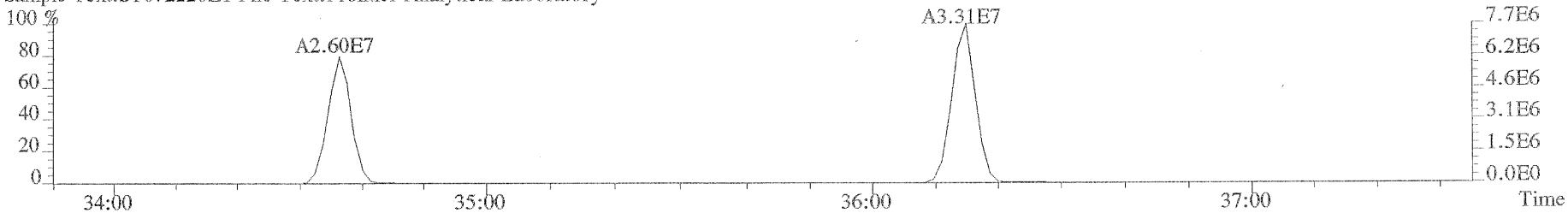
File:22JUL20Z #1-180 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



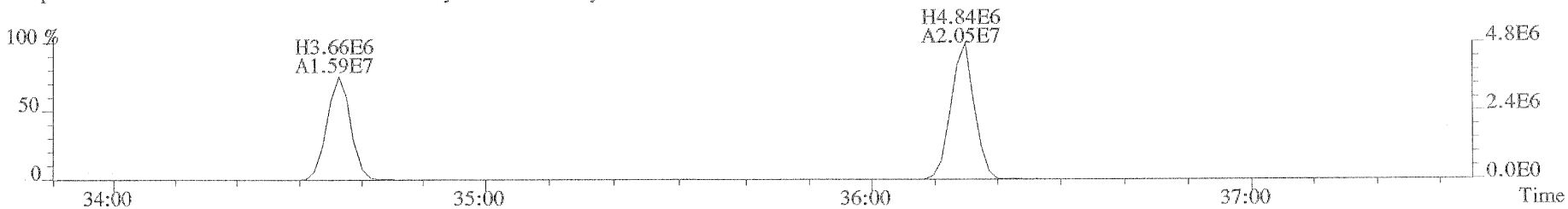
File:22JUL20Z #1-180 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



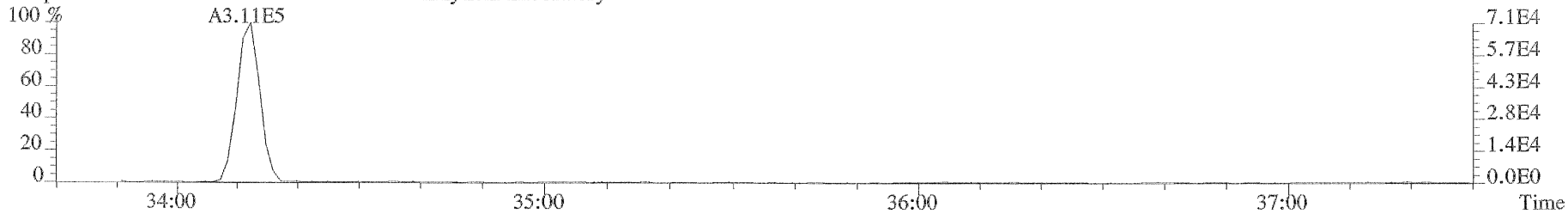
File:22JUL20Z #1-180 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



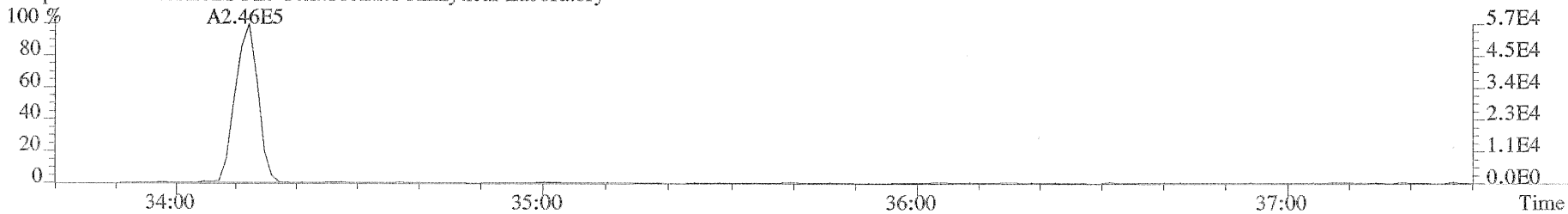
File:22JUL20Z #1-180 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



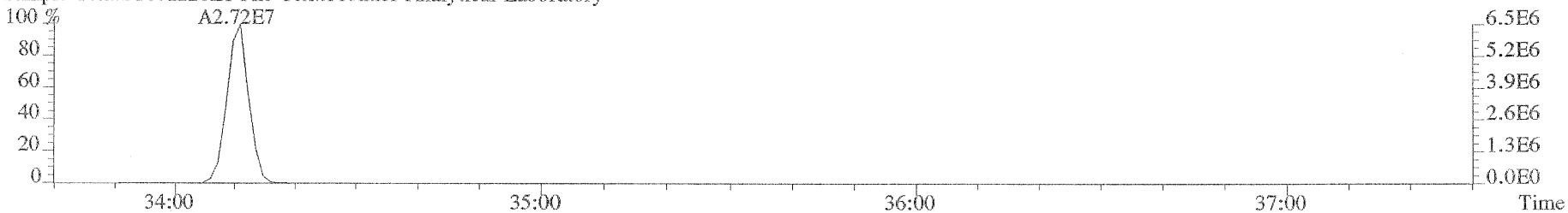
File:22JUL20Z #1-180 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



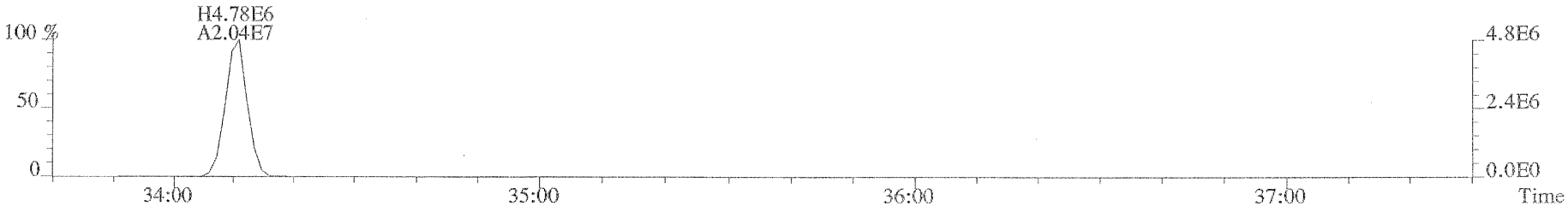
File:22JUL20Z #1-180 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



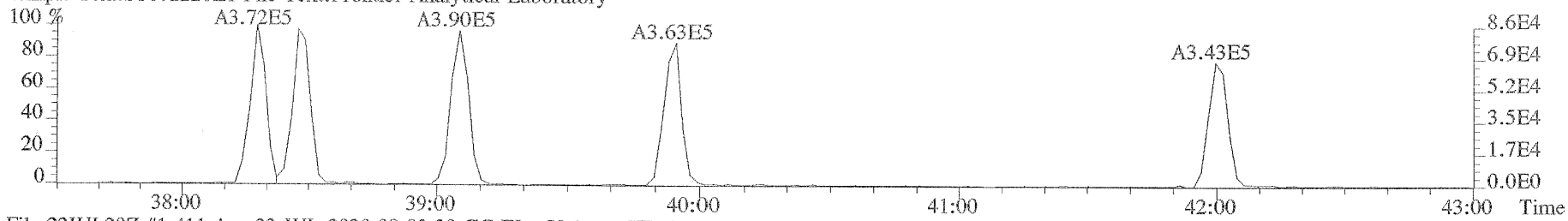
File:22JUL20Z #1-180 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



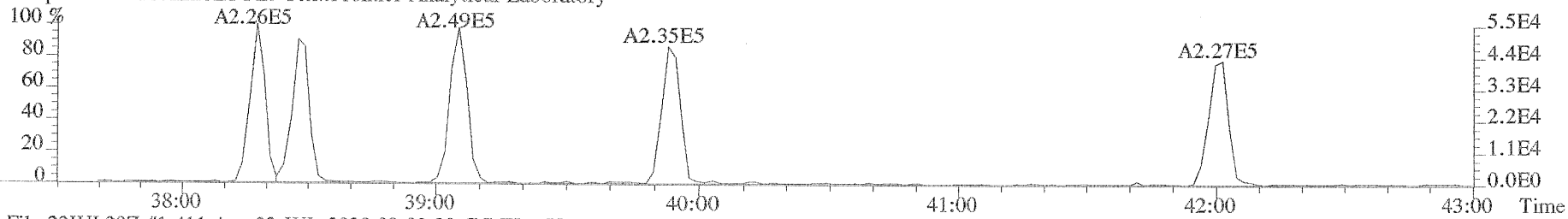
File:22JUL20Z #1-180 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



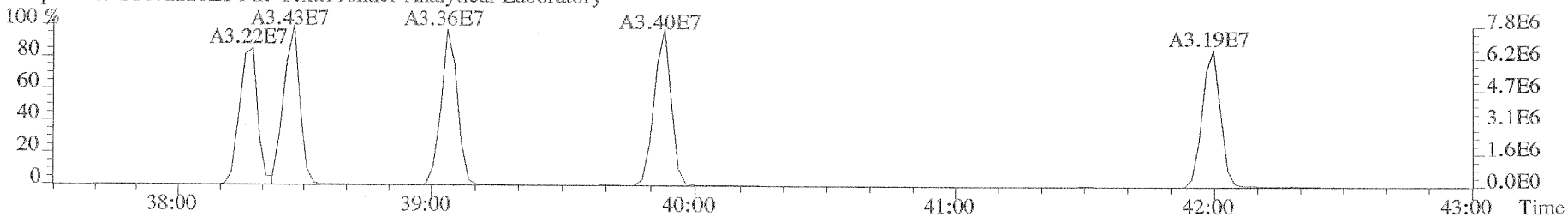
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



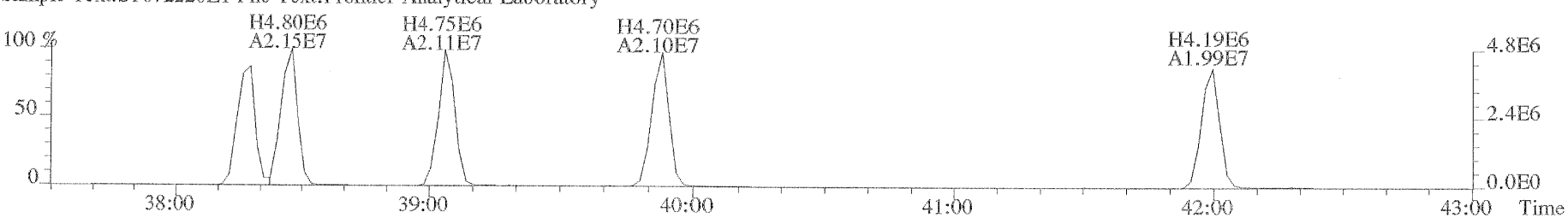
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



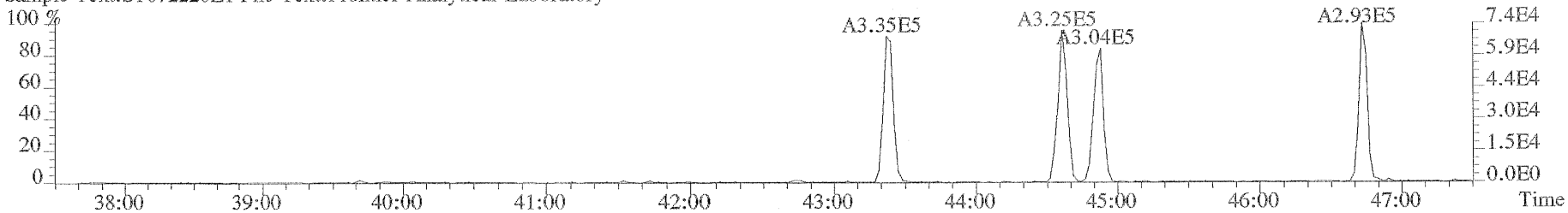
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



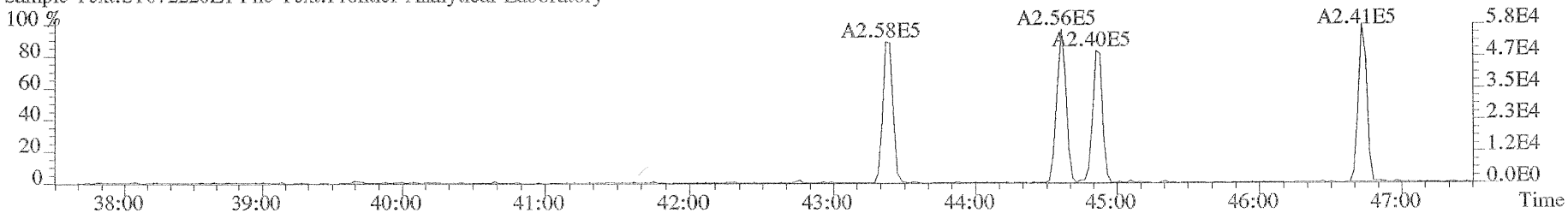
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



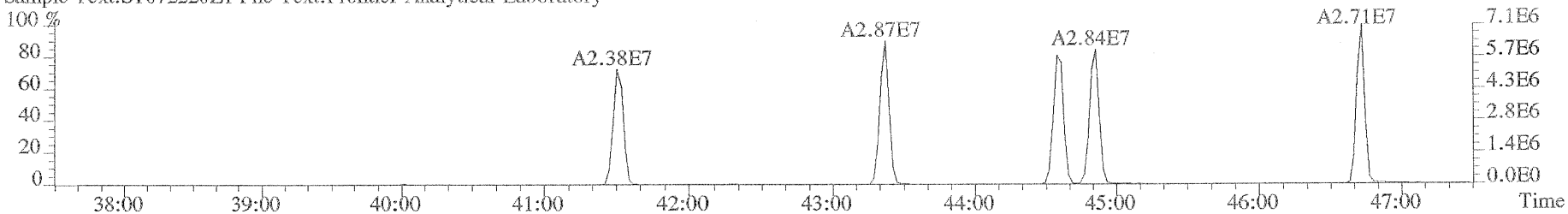
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



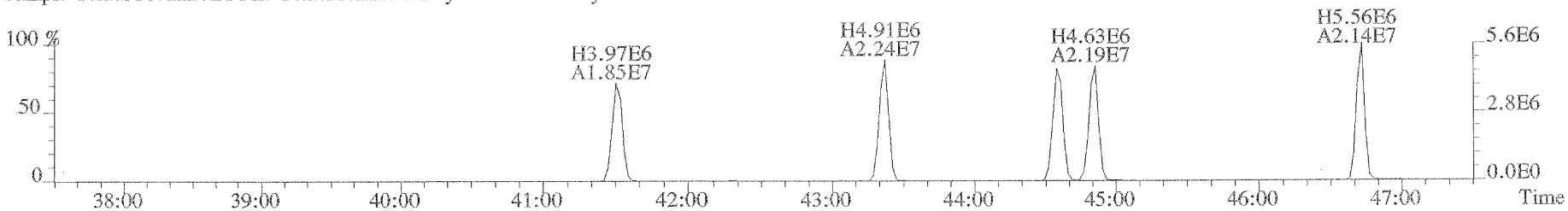
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



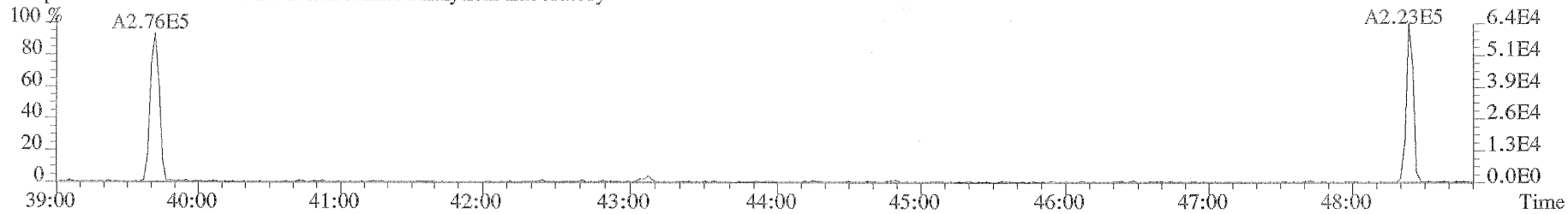
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



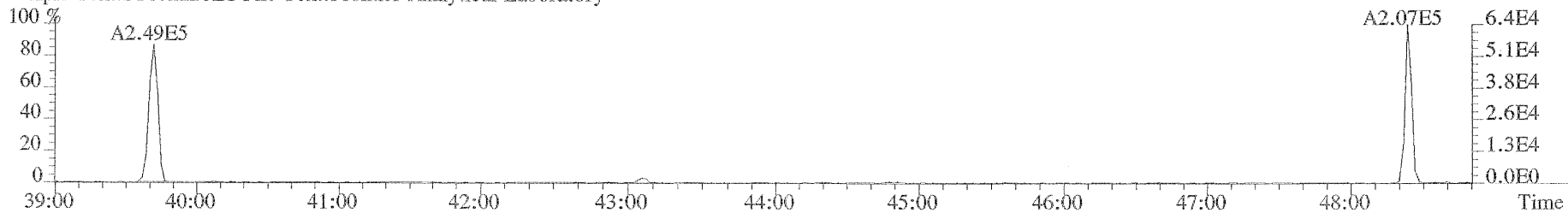
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



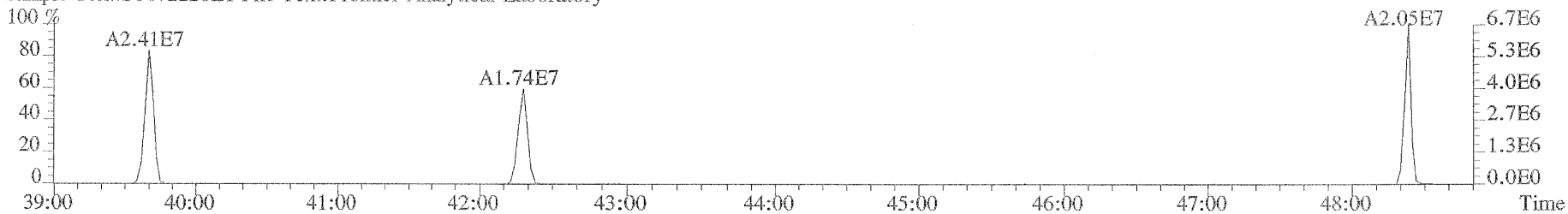
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



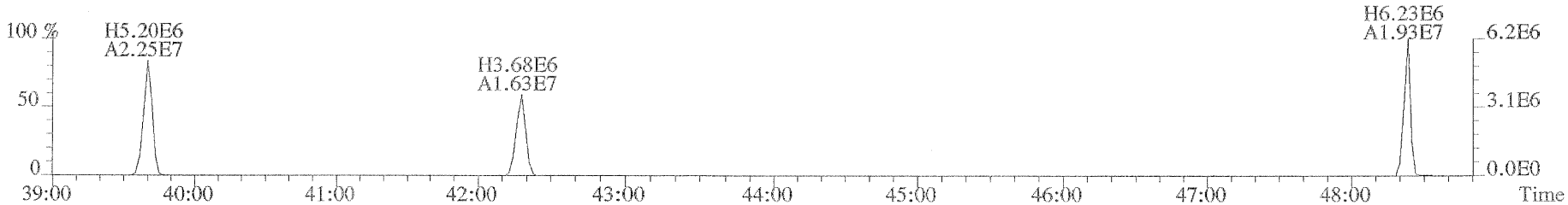
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



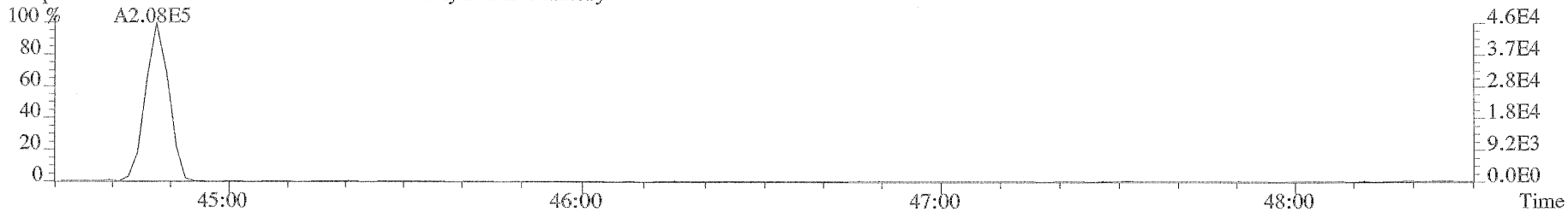
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



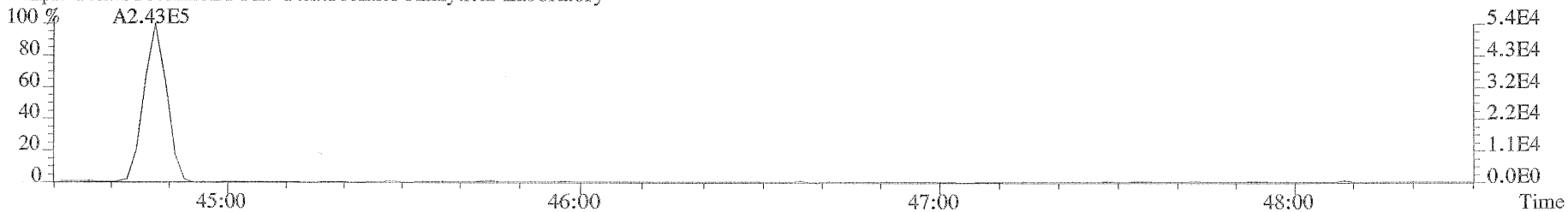
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



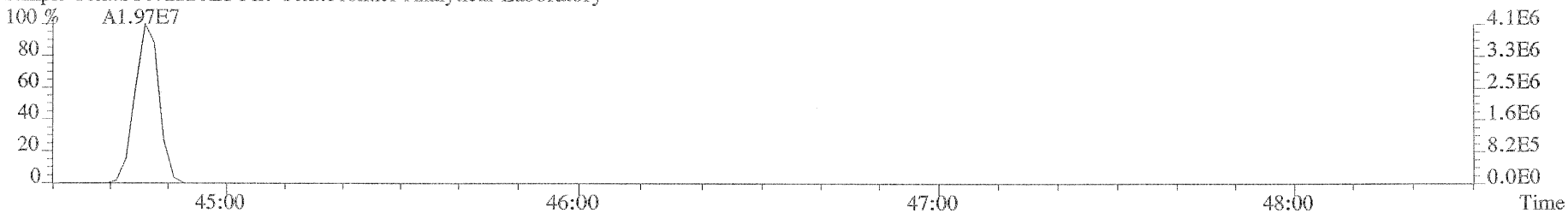
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



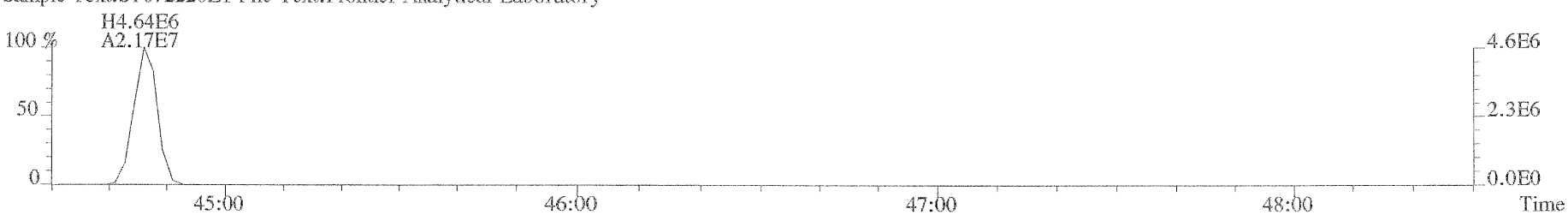
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



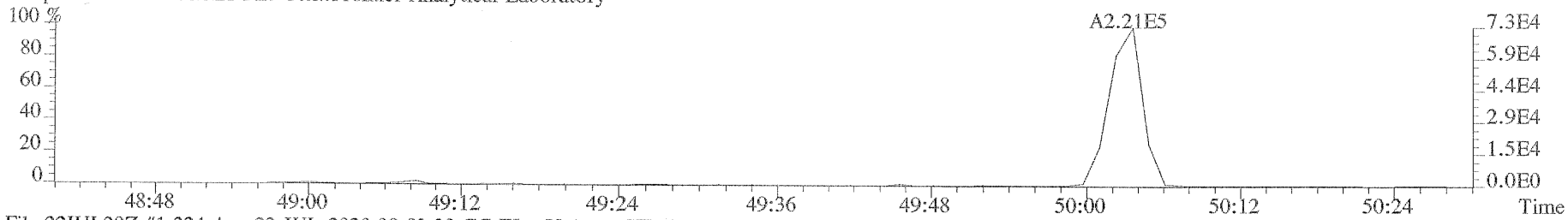
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



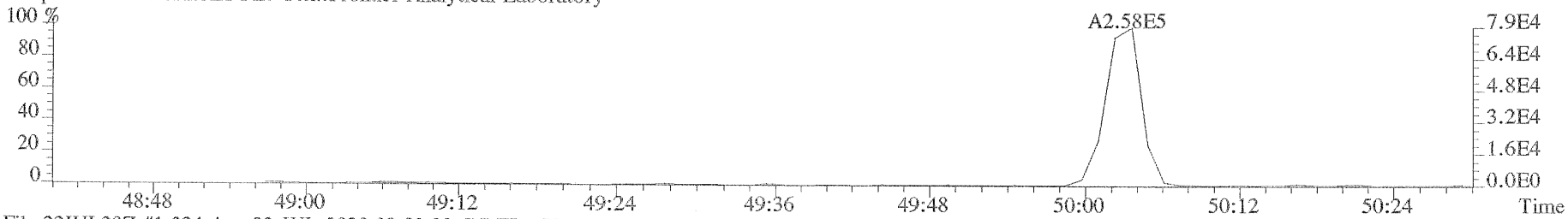
File:22JUL20Z #1-411 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



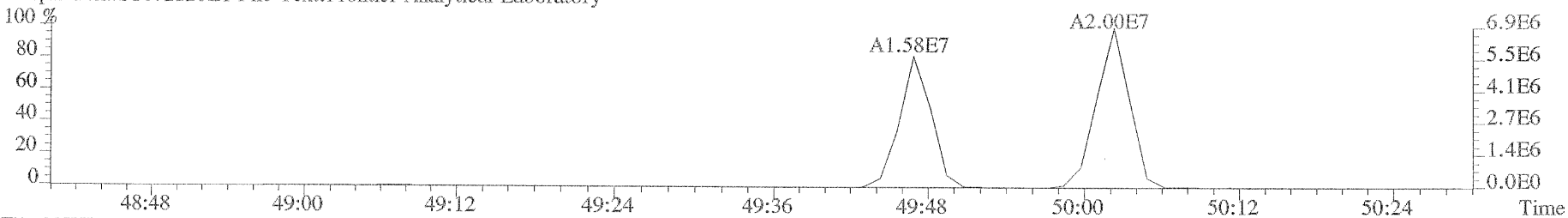
File:22JUL20Z #1-224 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



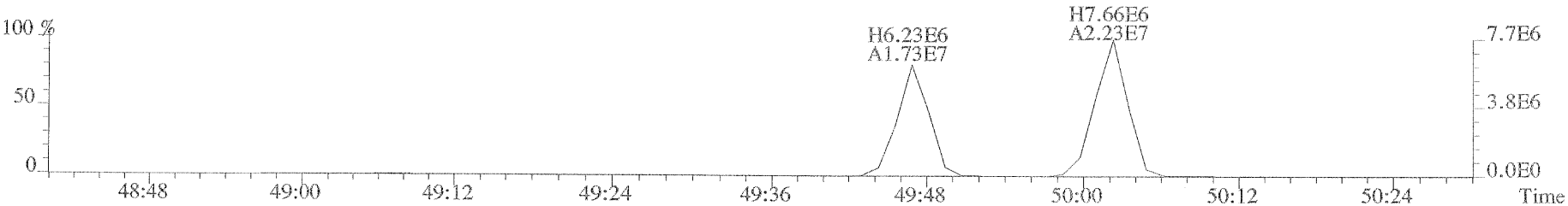
File:22JUL20Z #1-224 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



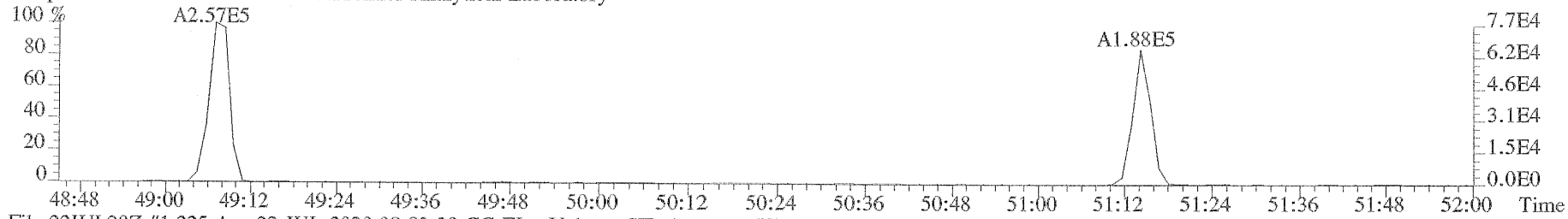
File:22JUL20Z #1-224 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



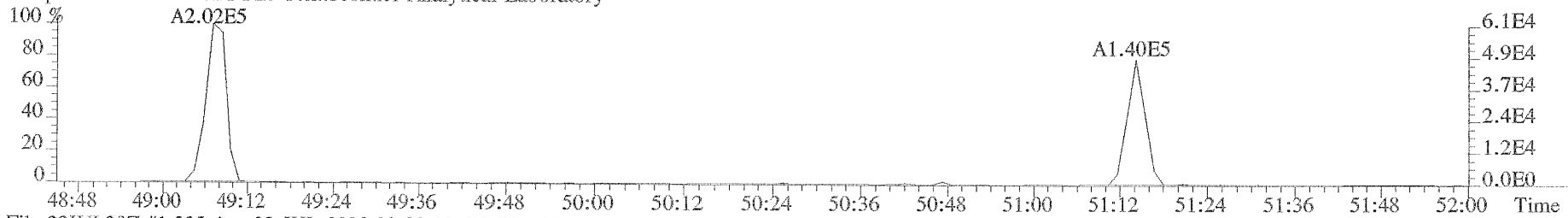
File:22JUL20Z #1-224 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



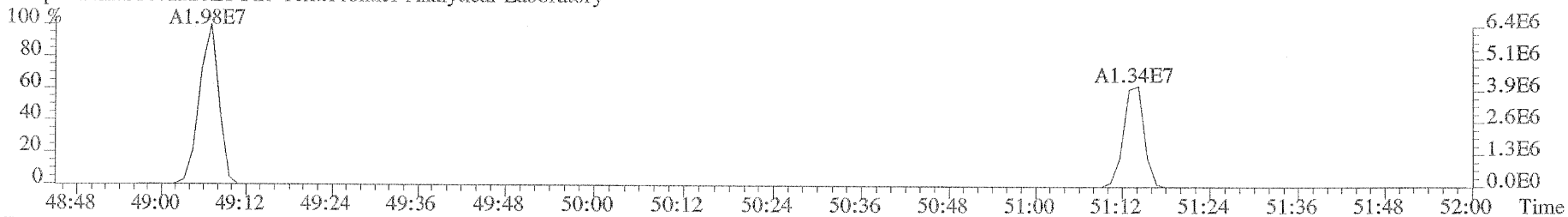
File:22JUL20Z #1-225 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



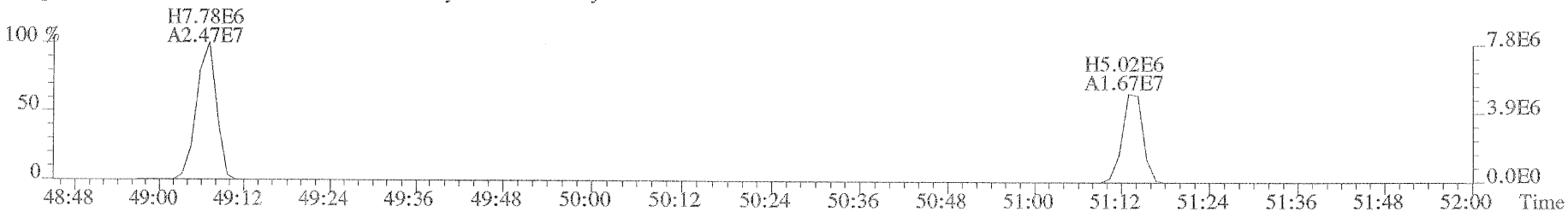
File:22JUL20Z #1-225 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



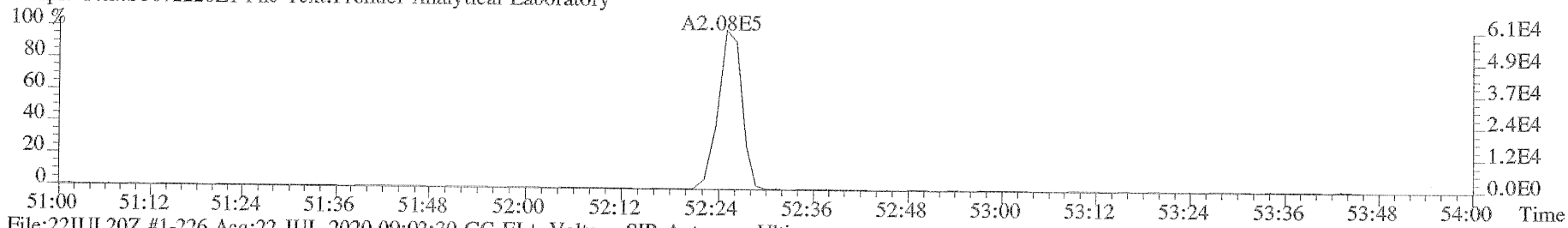
File:22JUL20Z #1-225 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



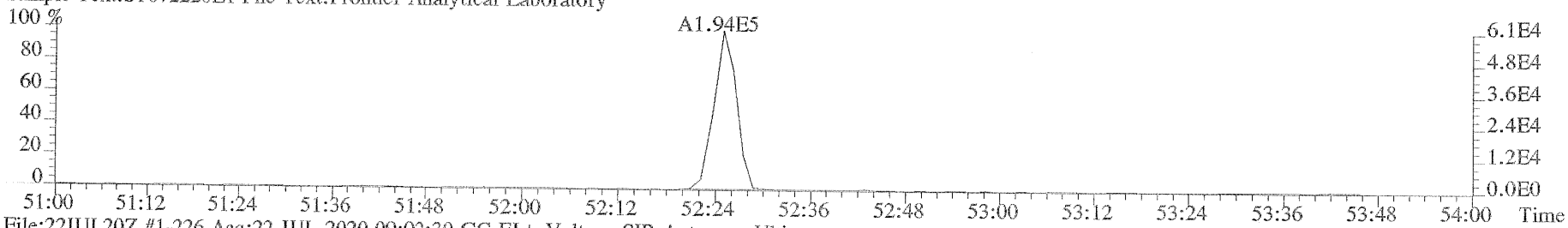
File:22JUL20Z #1-225 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



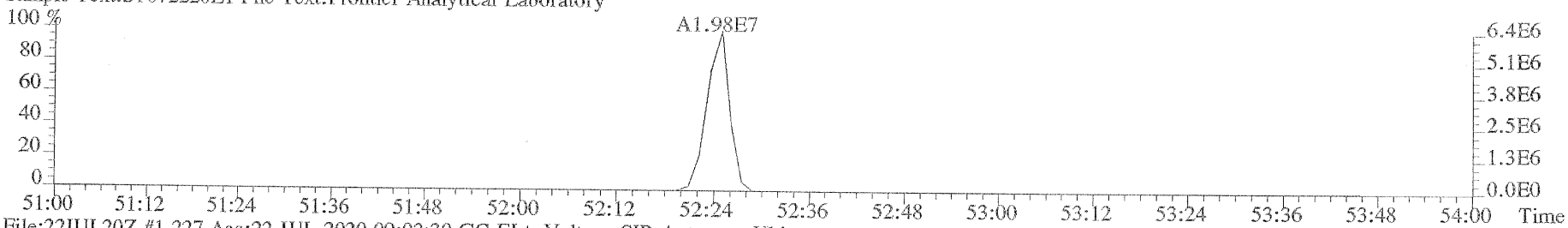
File:22JUL20Z #1-226 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



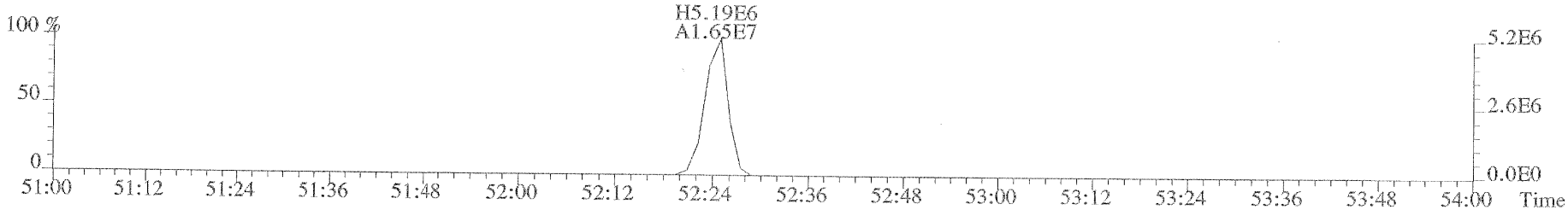
File:22JUL20Z #1-226 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



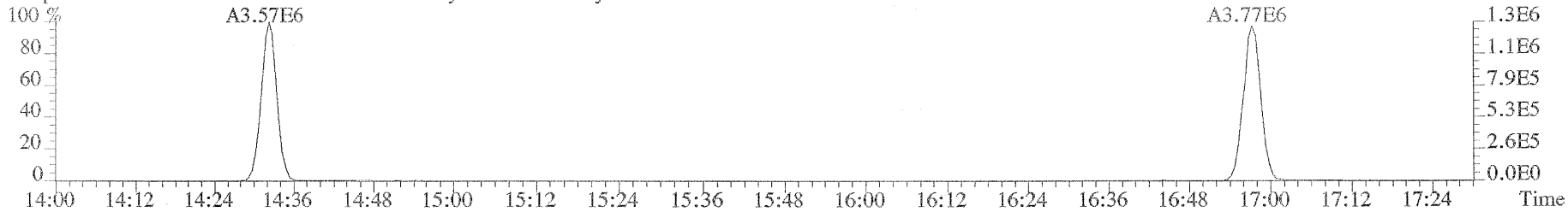
File:22JUL20Z #1-226 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



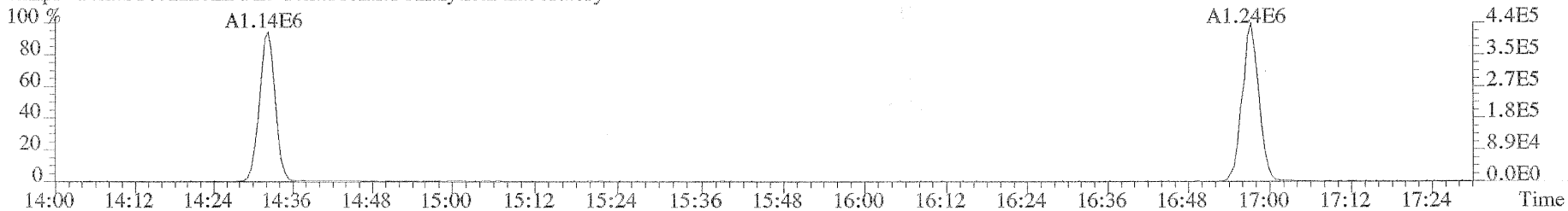
File:22JUL20Z #1-227 Acq:22-JUL-2020 09:02:30 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z1 File Text:Frontier Analytical Laboratory



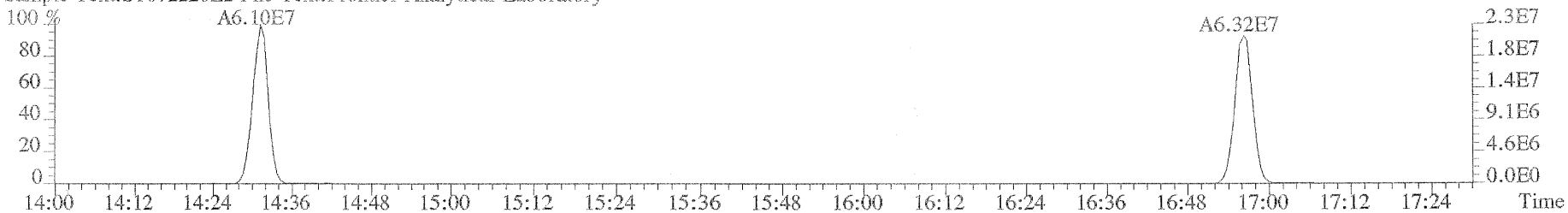
File:22JUL20Z #1-783 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



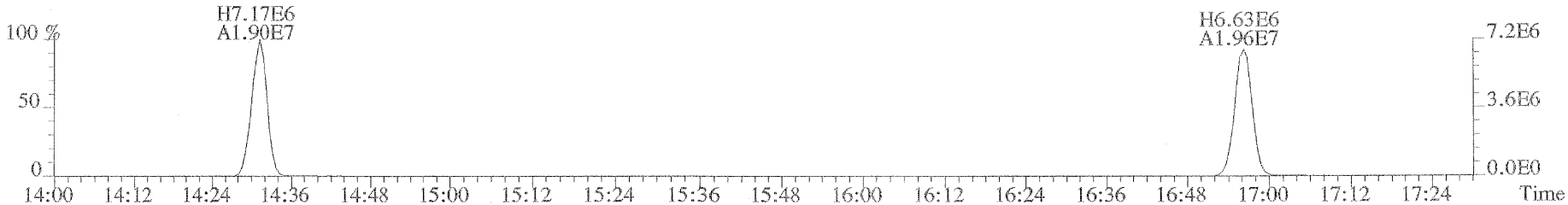
File:22JUL20Z #1-783 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



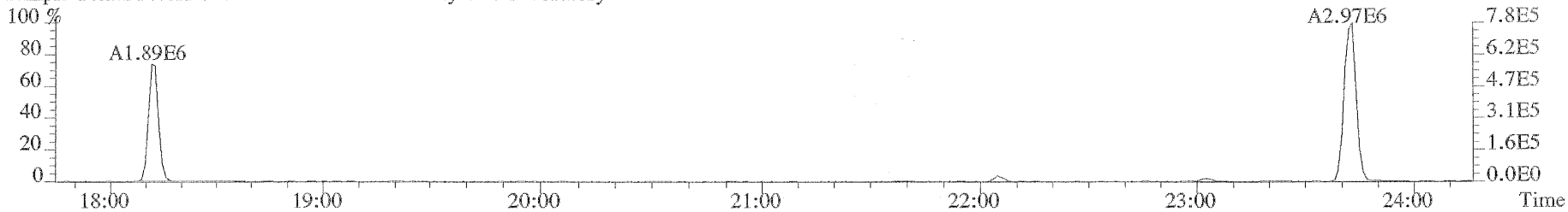
File:22JUL20Z #1-783 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



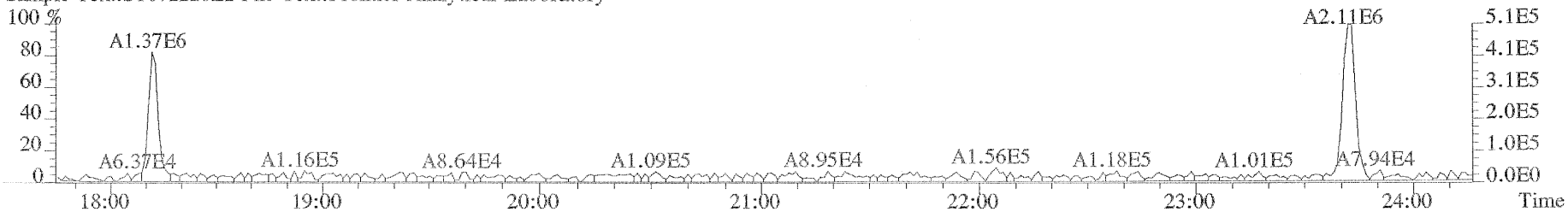
File:22JUL20Z #1-783 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



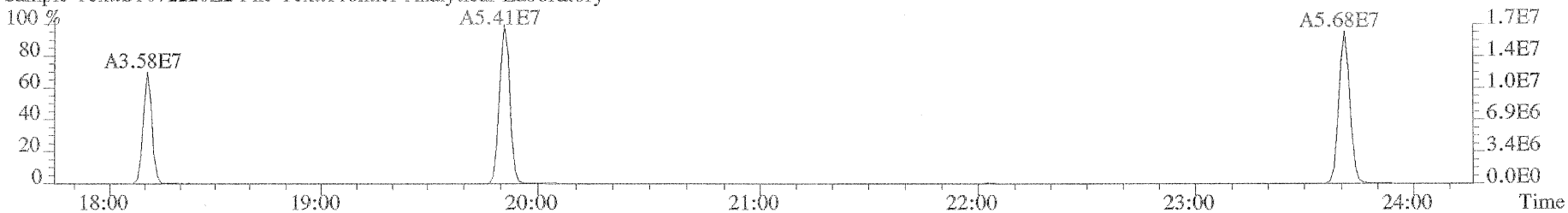
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



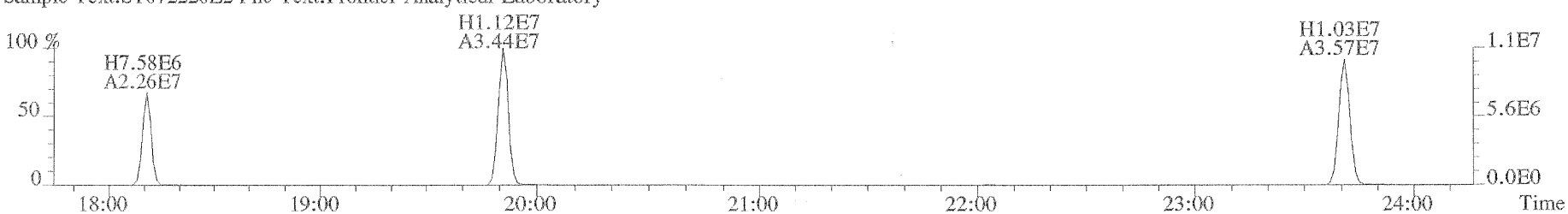
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



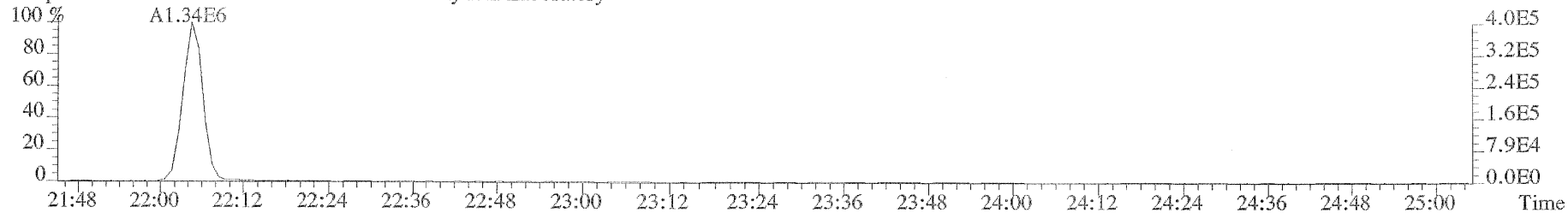
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



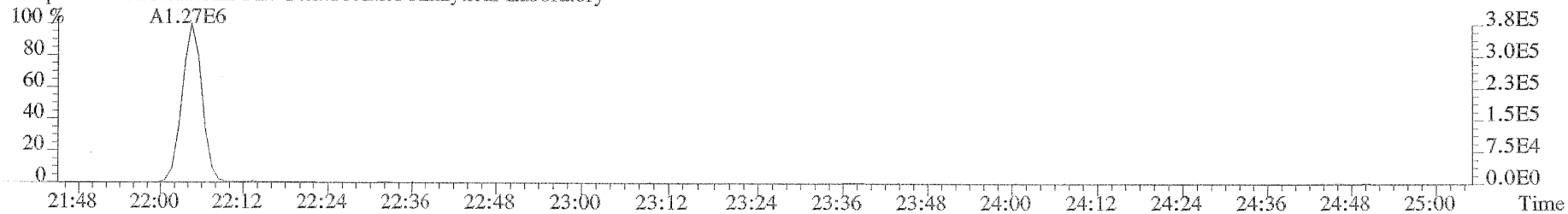
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



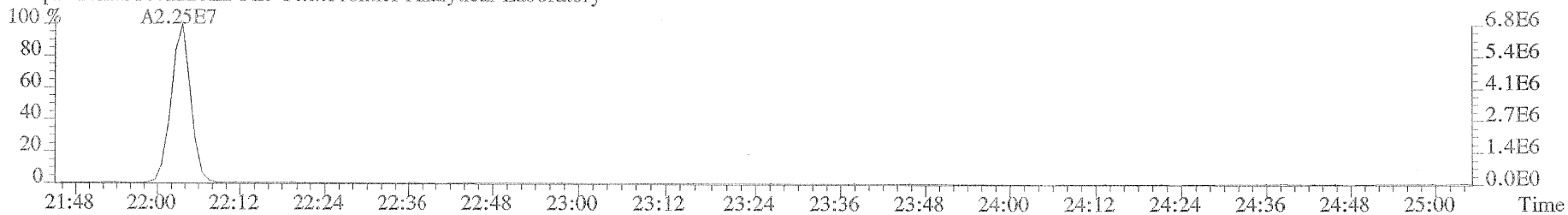
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



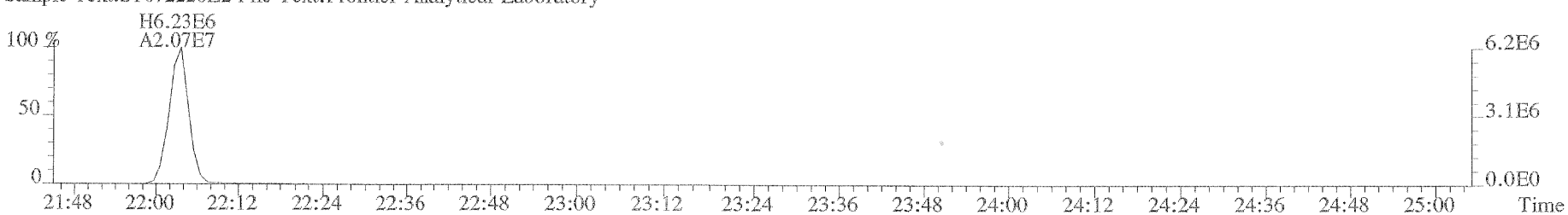
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



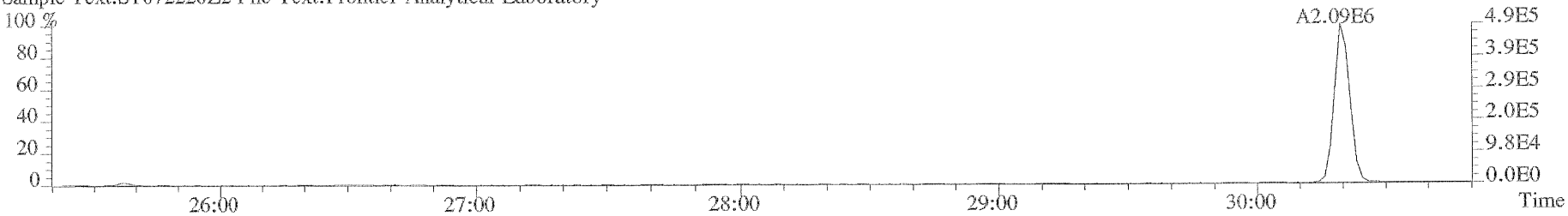
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



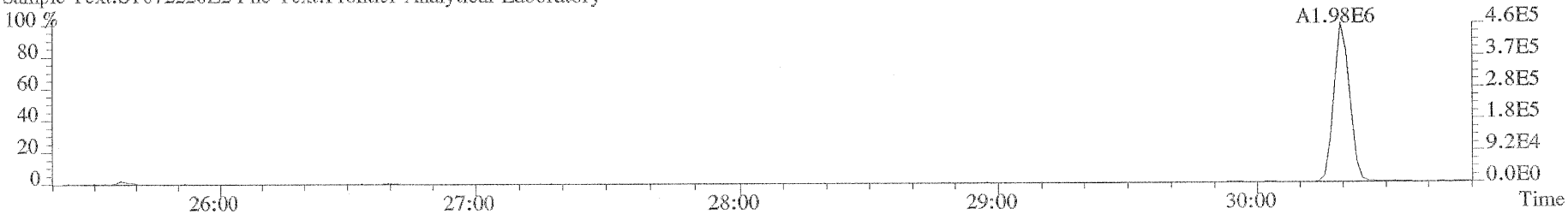
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



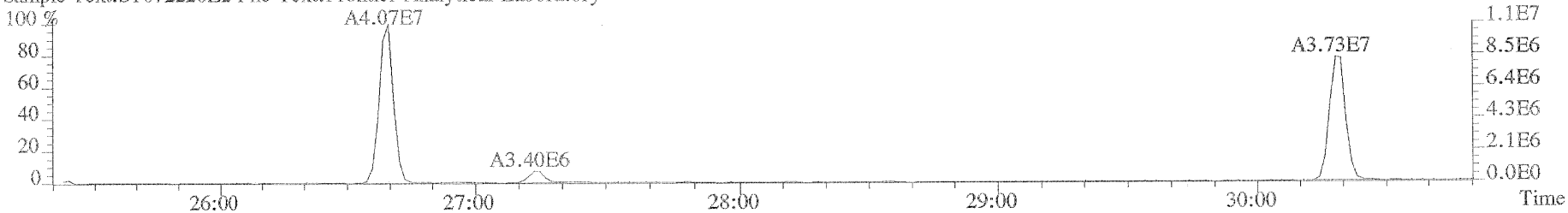
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



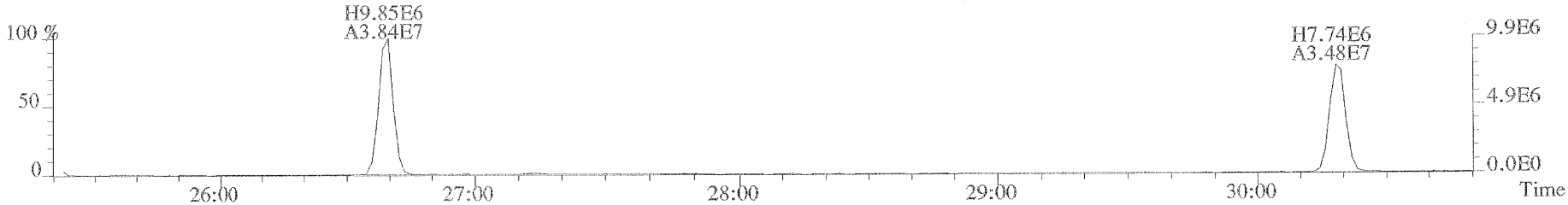
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



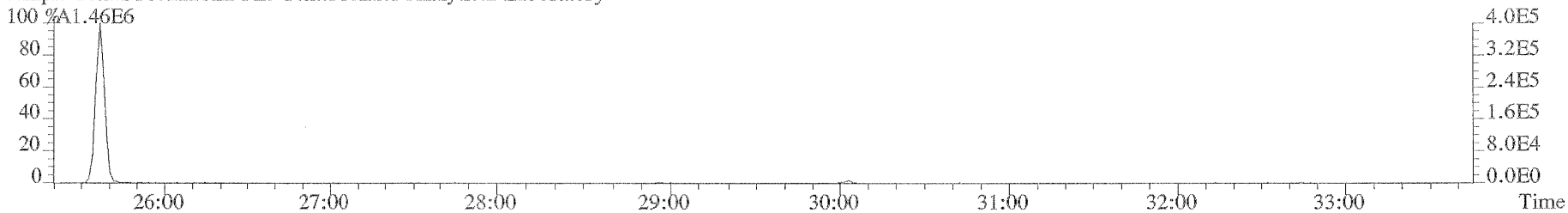
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



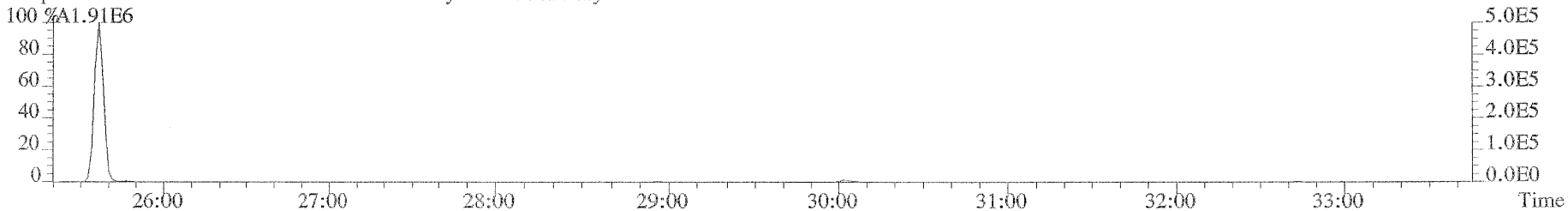
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



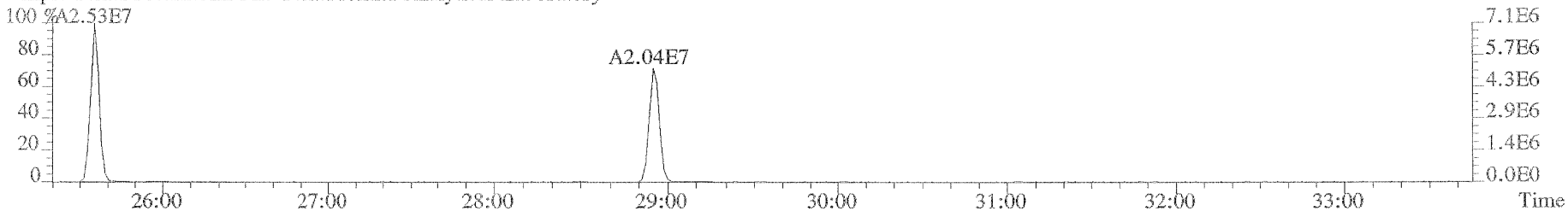
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



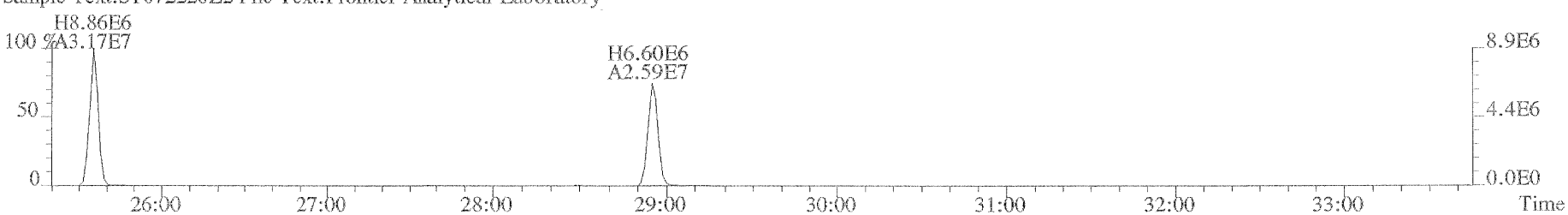
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



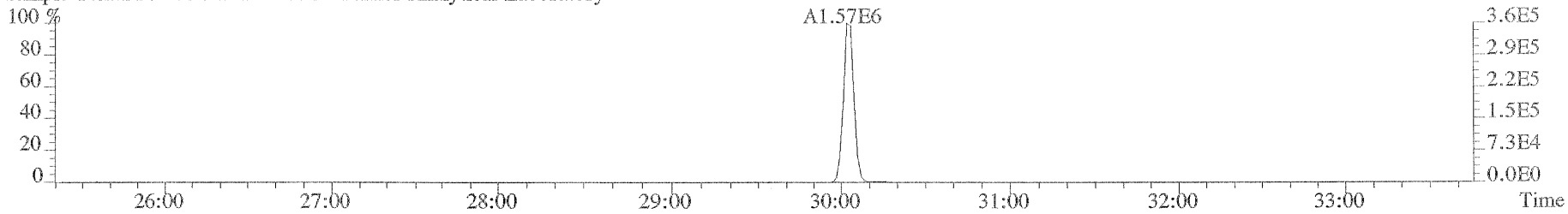
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



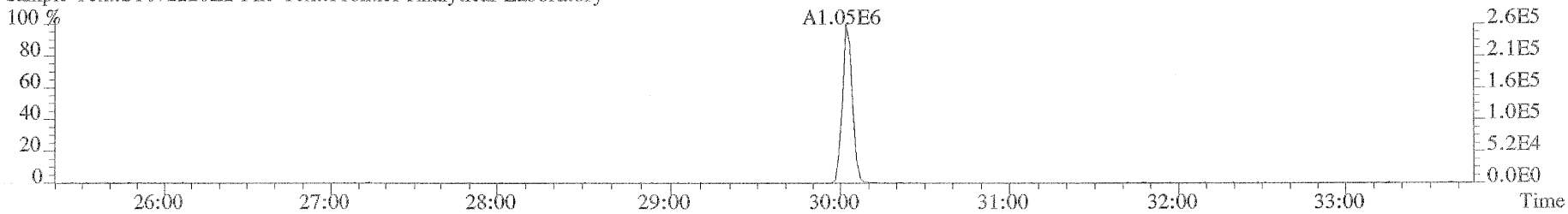
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



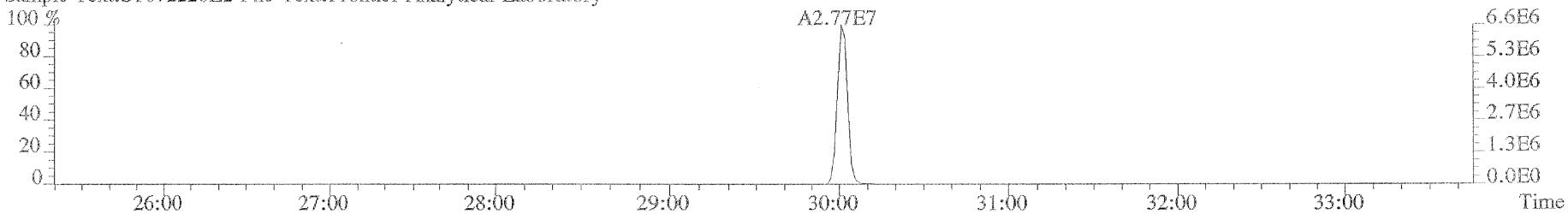
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



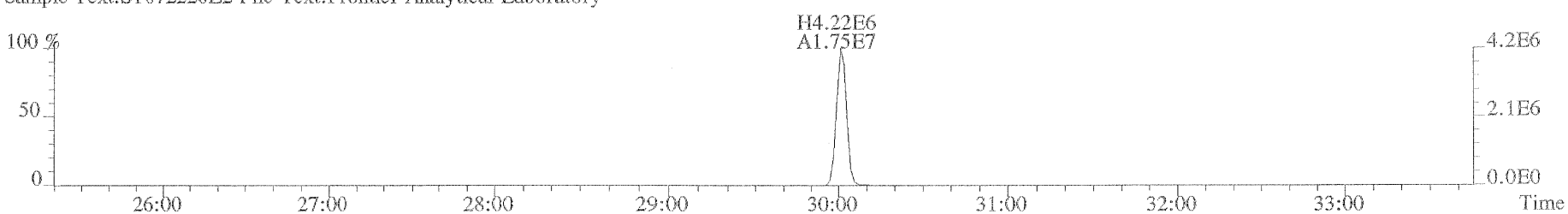
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



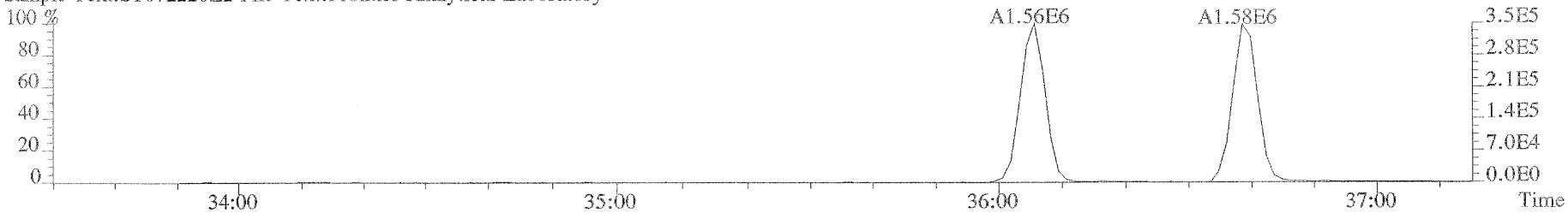
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



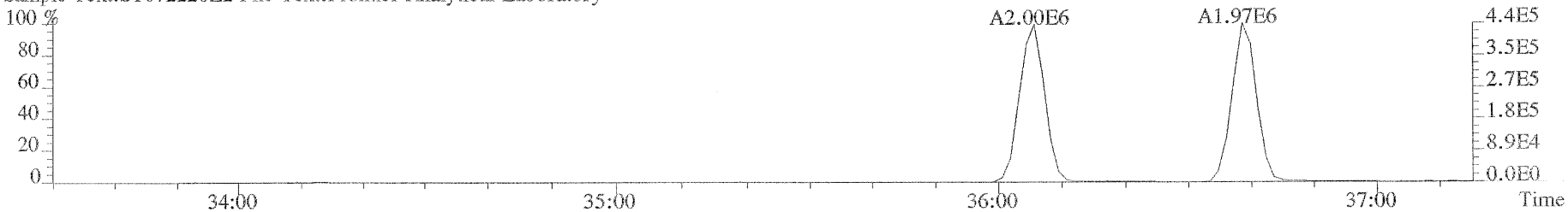
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



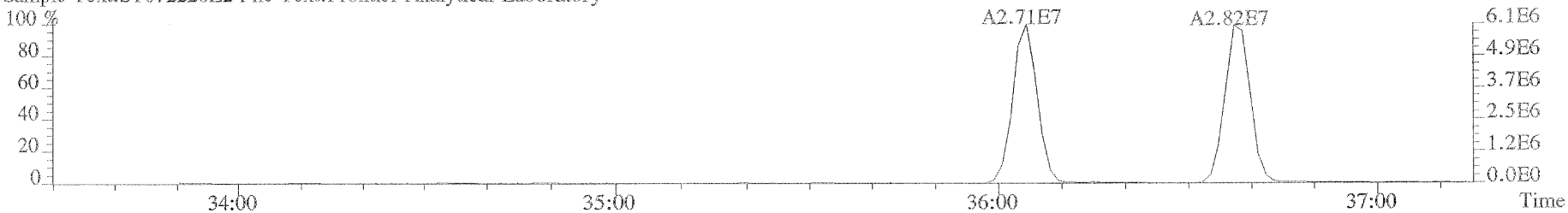
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



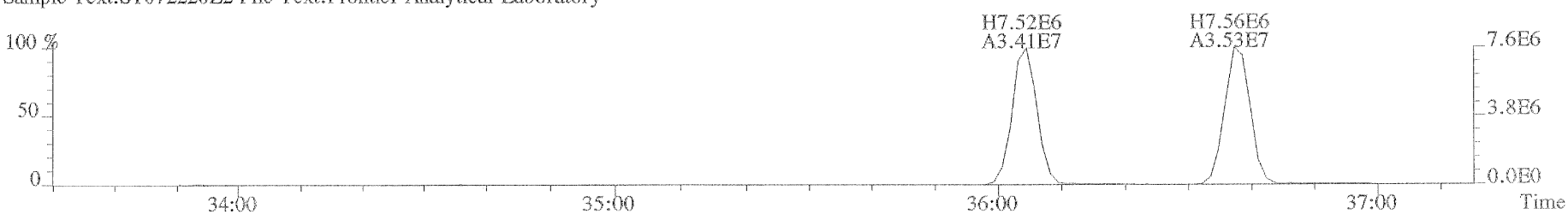
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



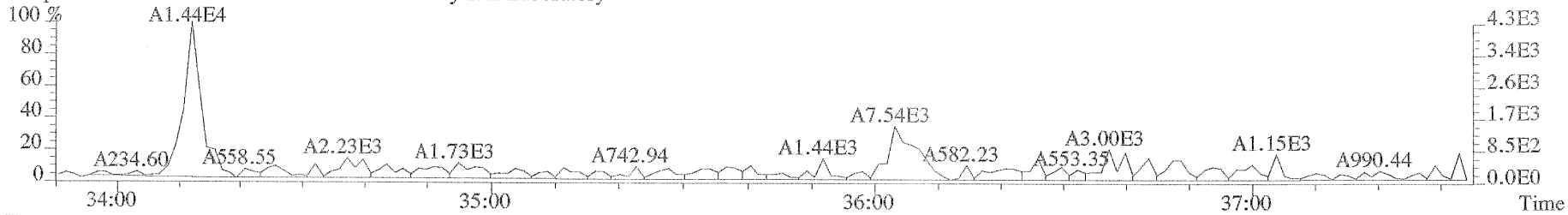
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



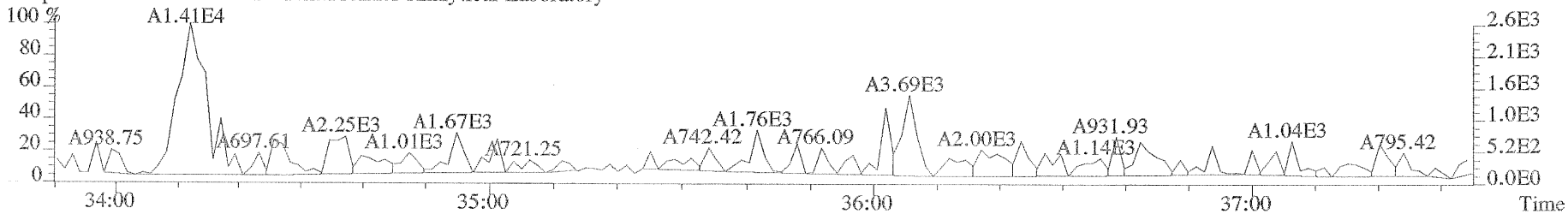
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



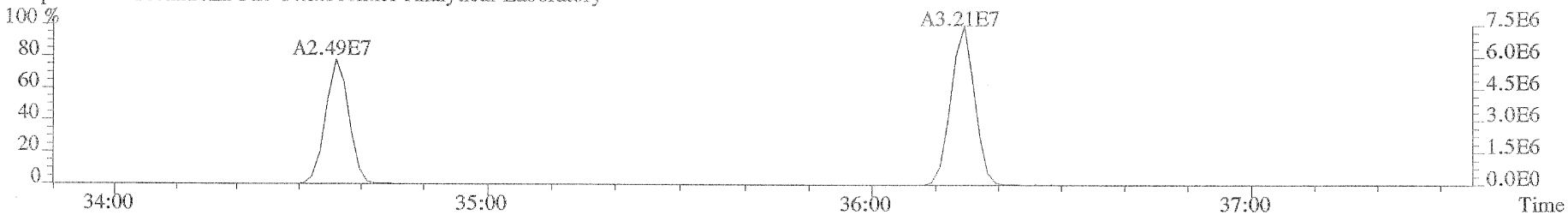
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



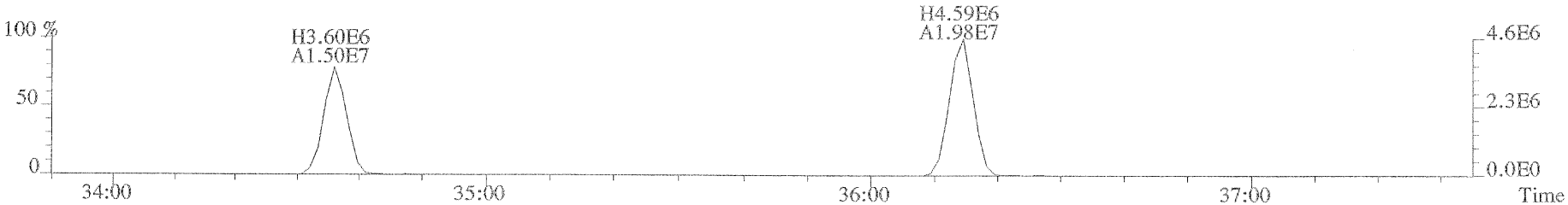
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



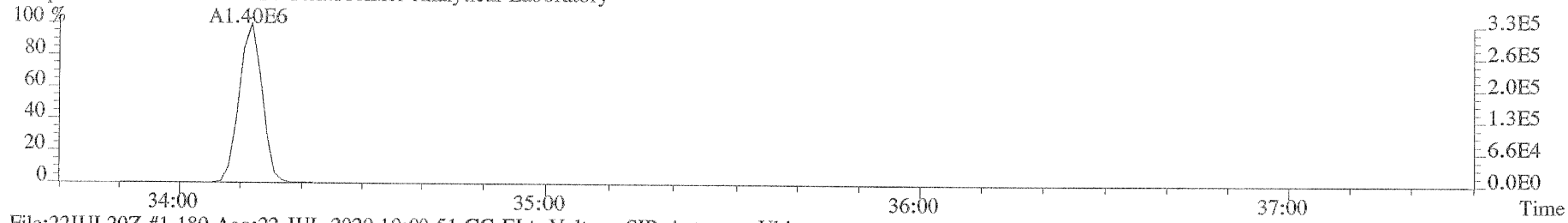
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



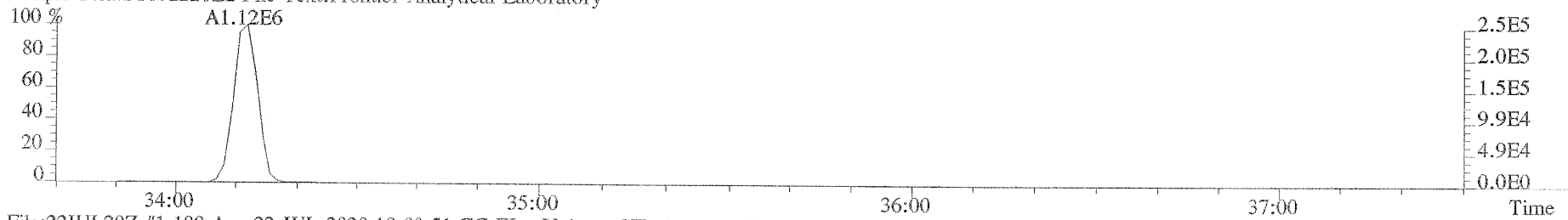
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



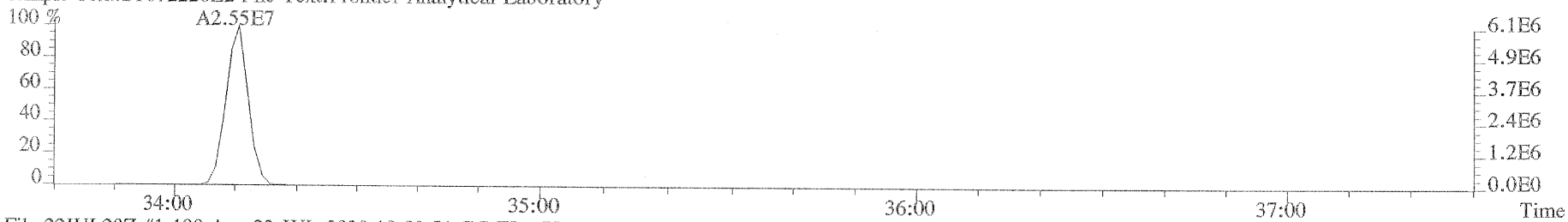
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



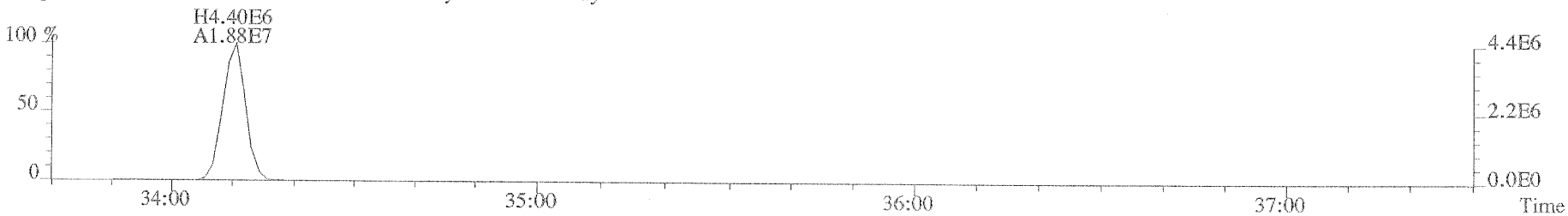
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



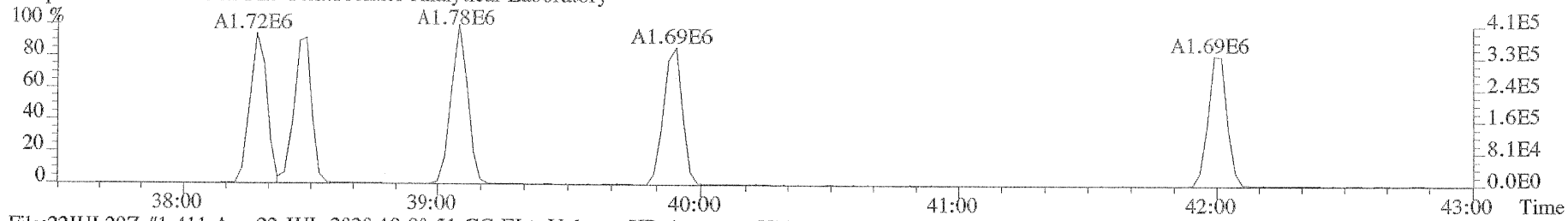
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



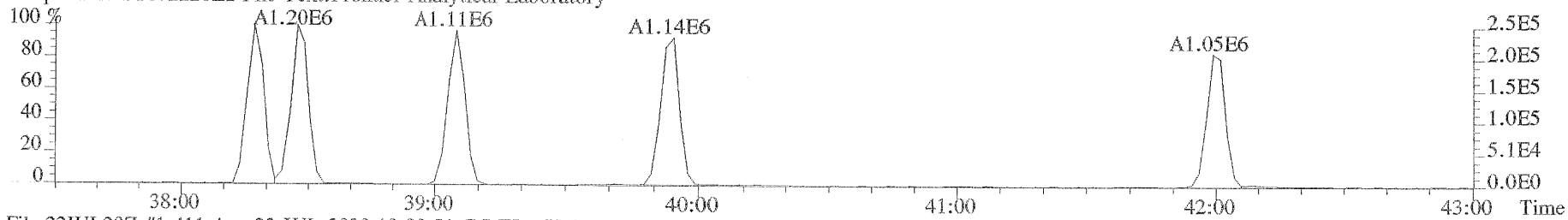
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



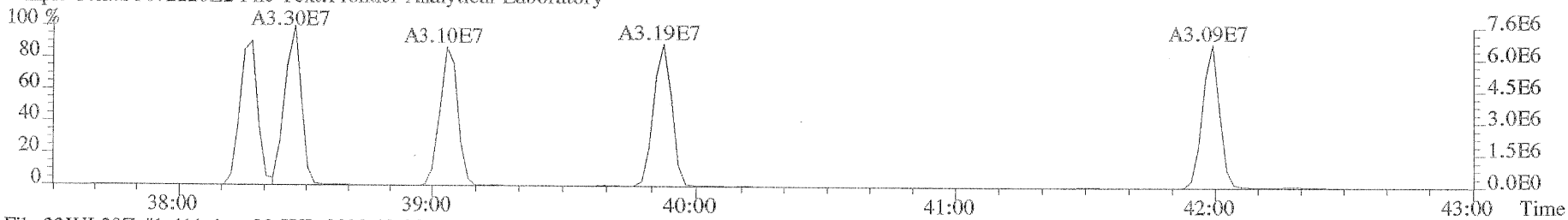
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



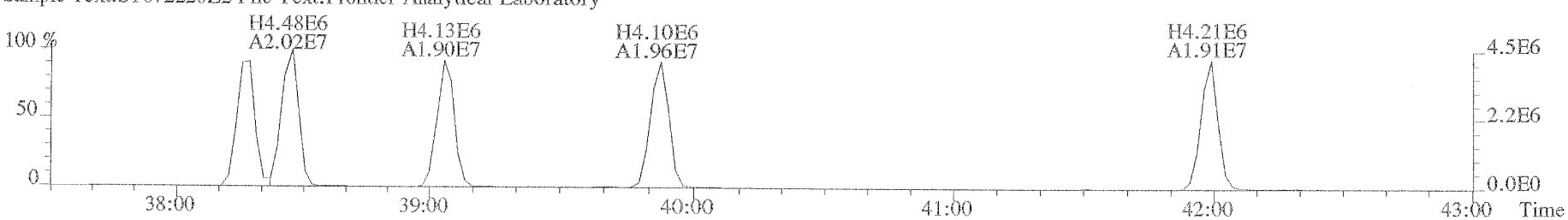
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



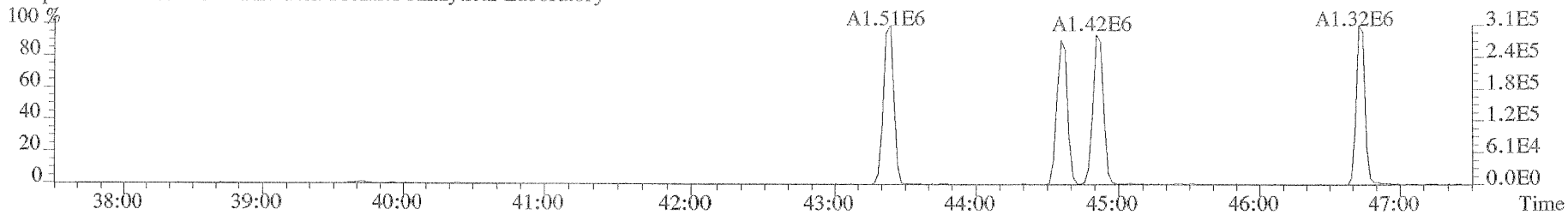
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



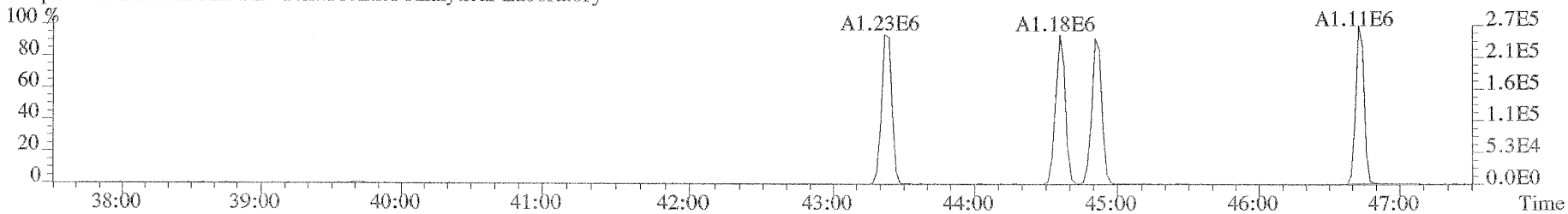
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



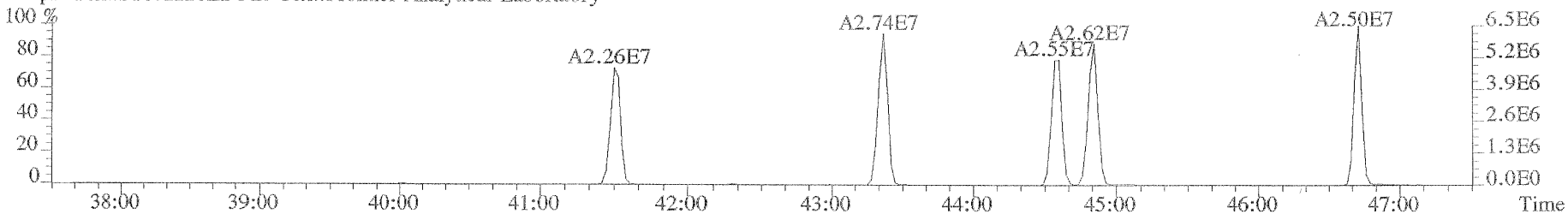
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



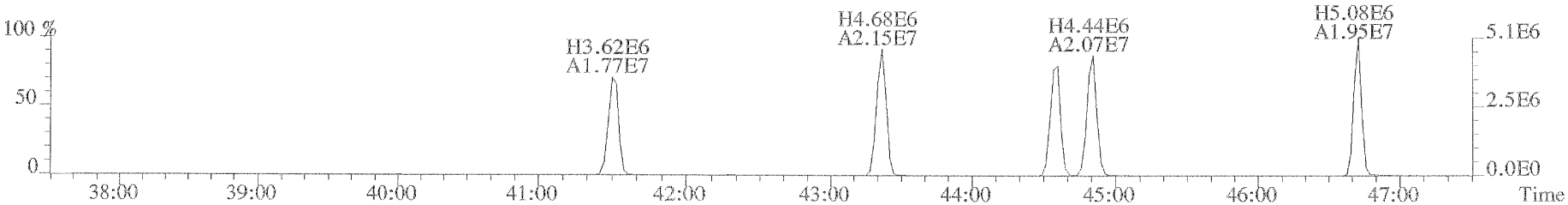
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



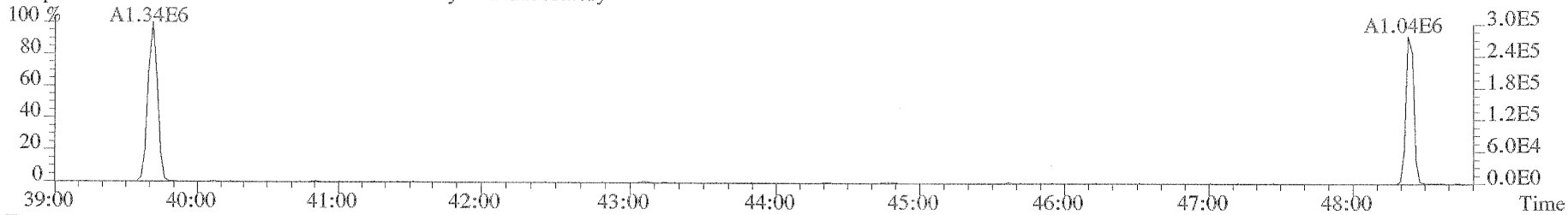
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



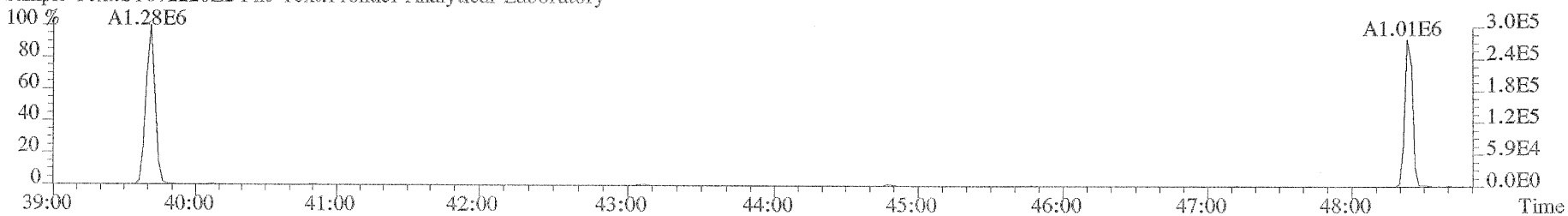
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



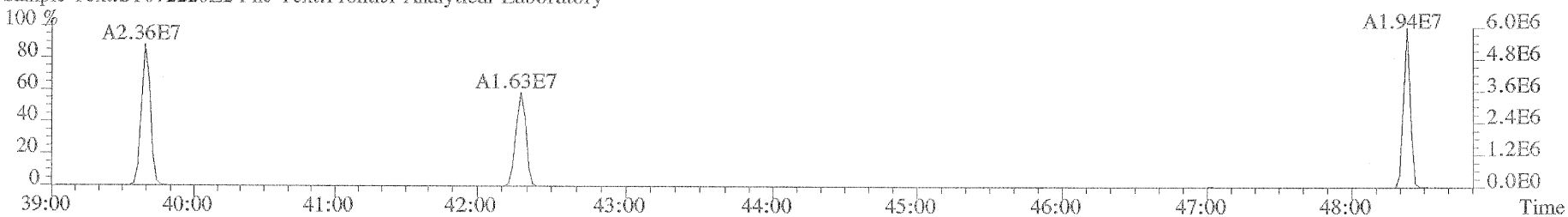
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



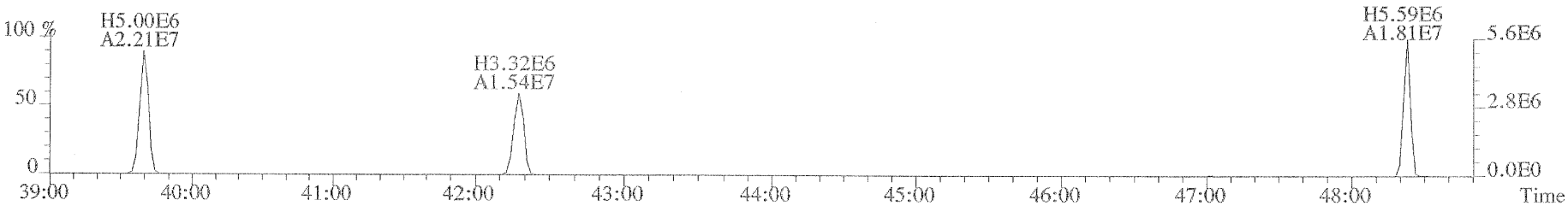
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



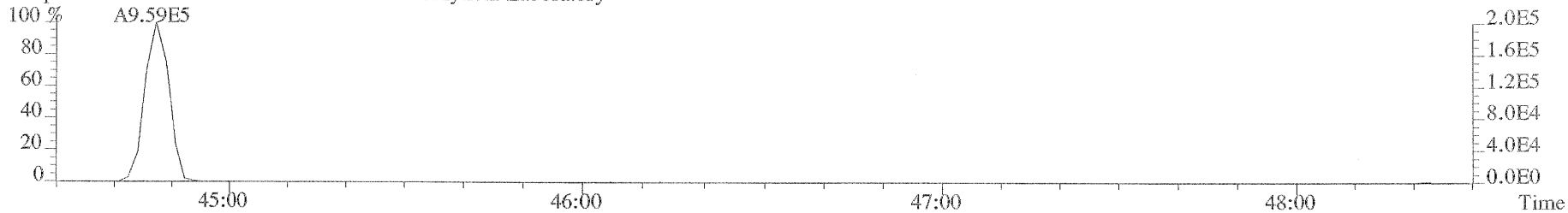
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



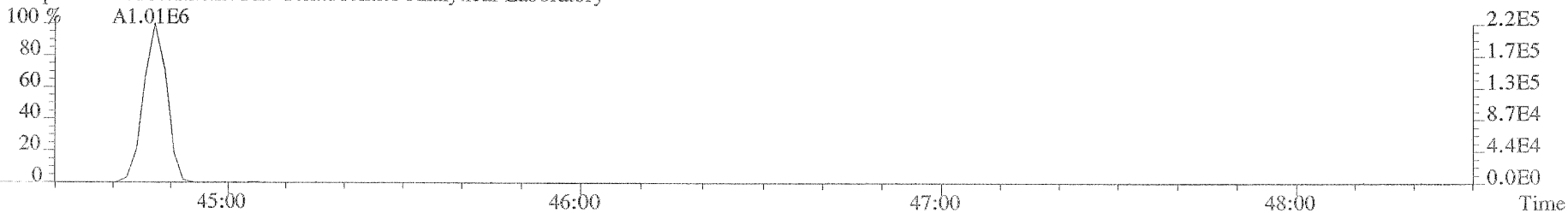
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



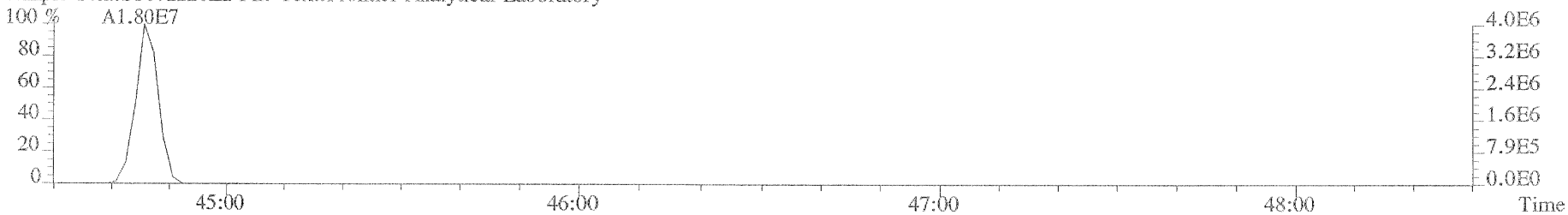
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



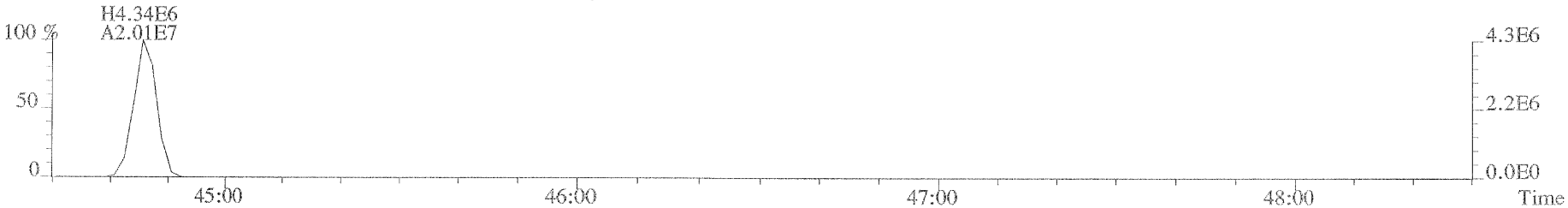
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



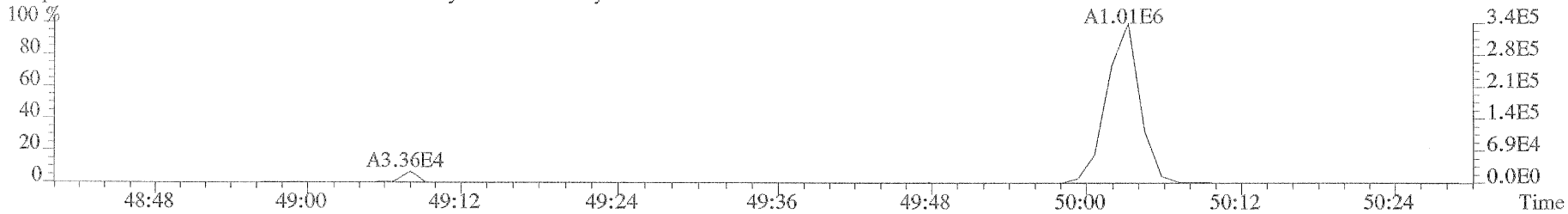
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



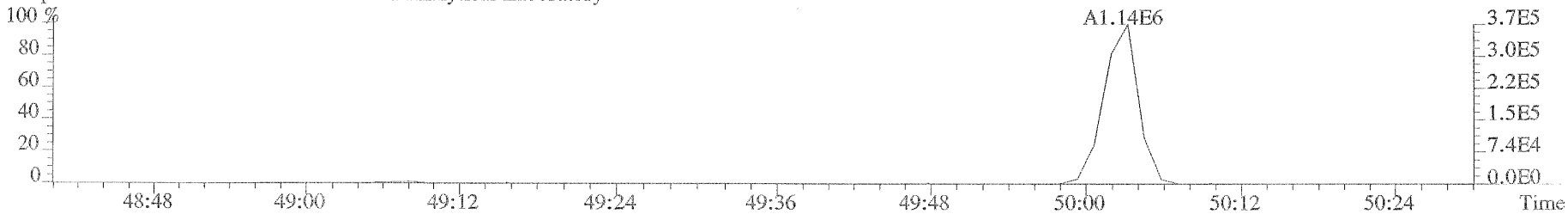
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



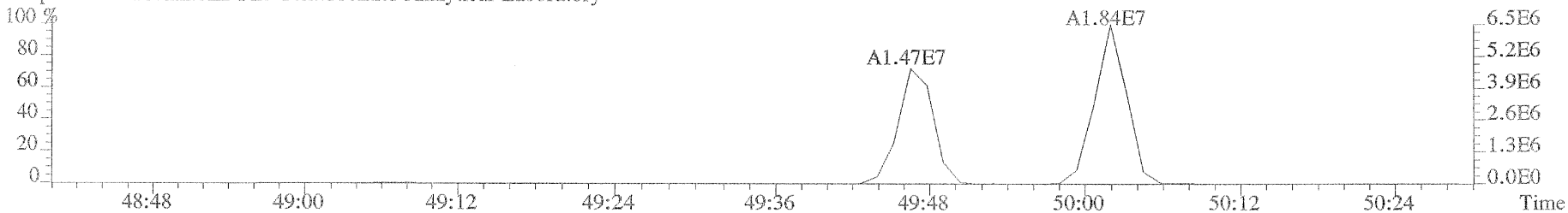
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



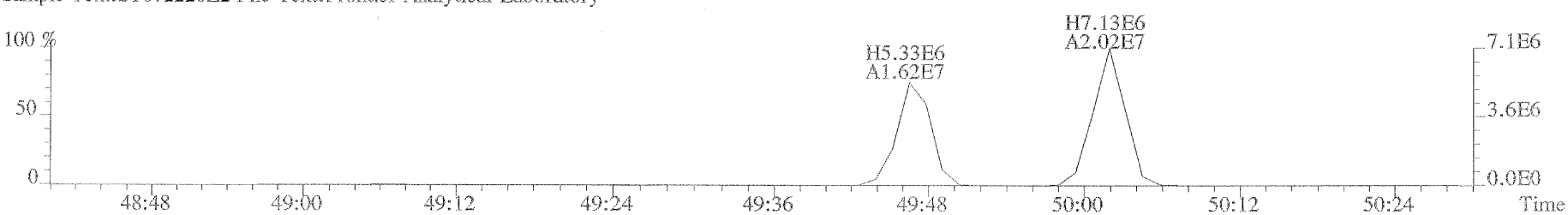
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



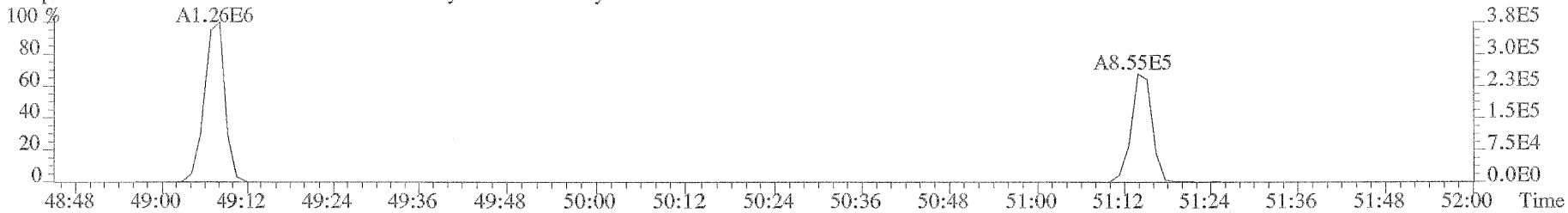
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



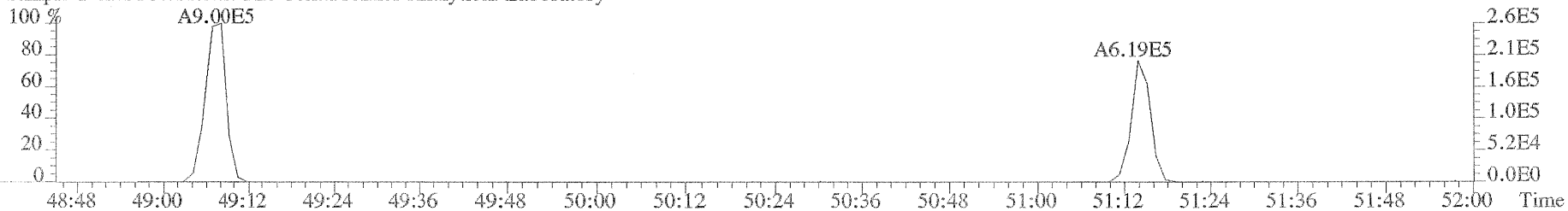
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



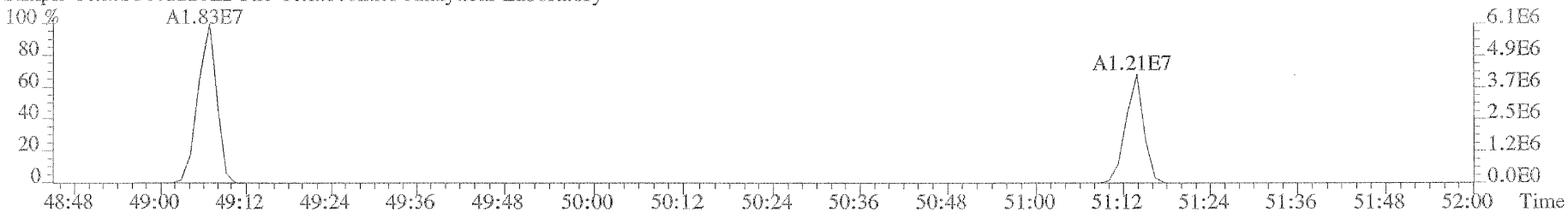
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



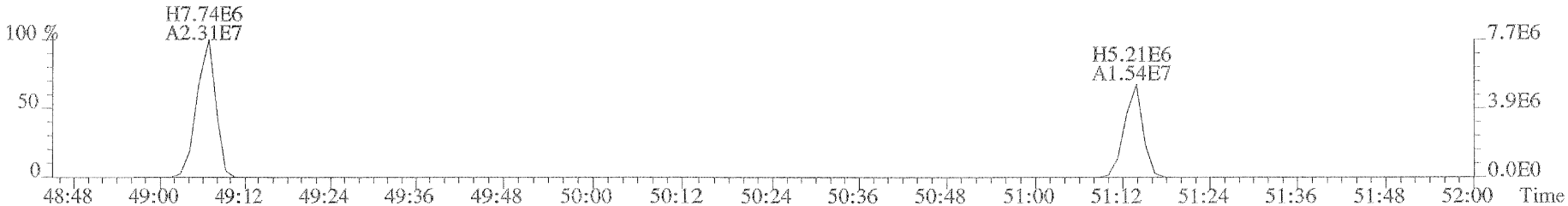
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



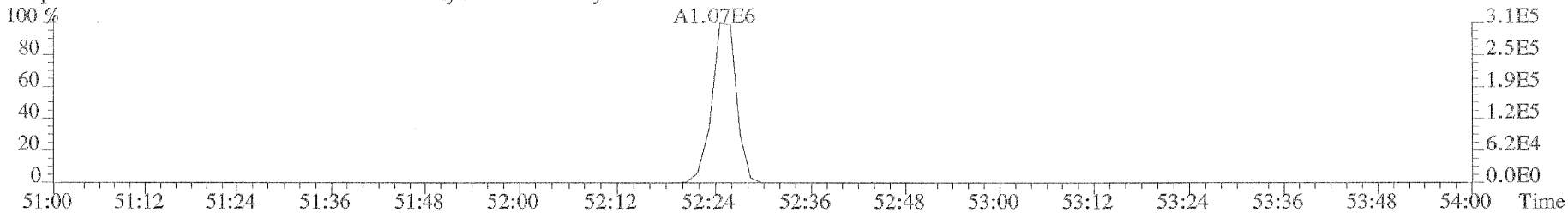
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



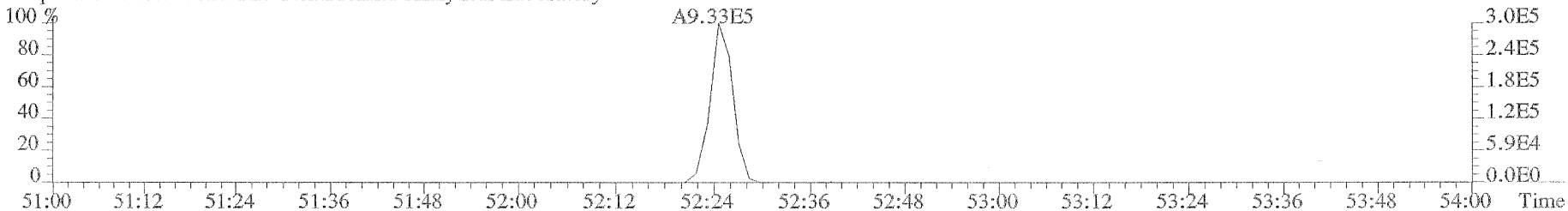
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



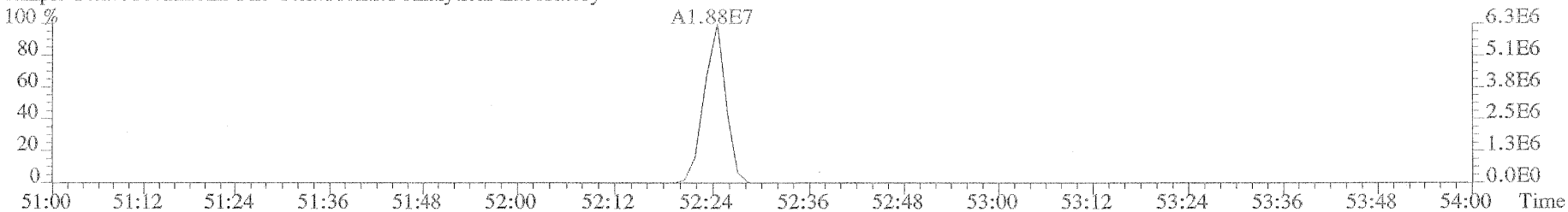
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



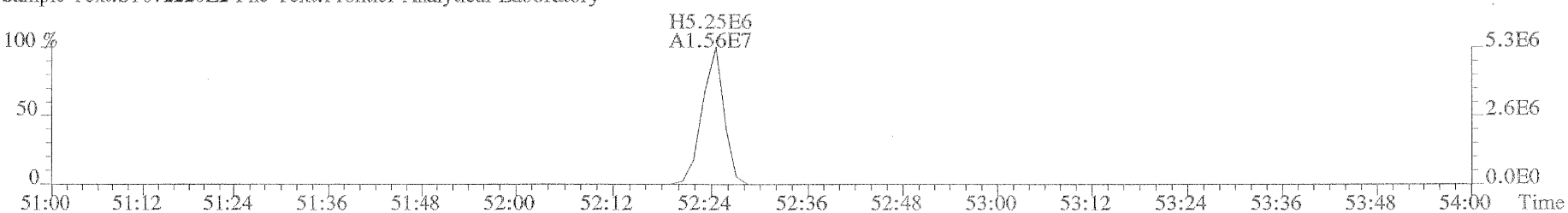
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



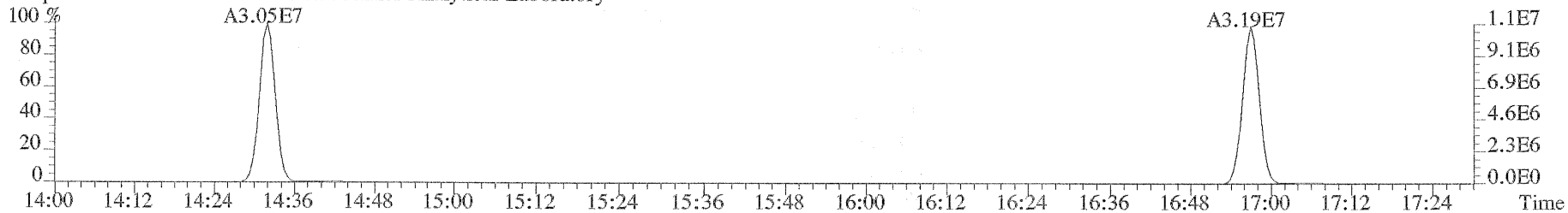
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



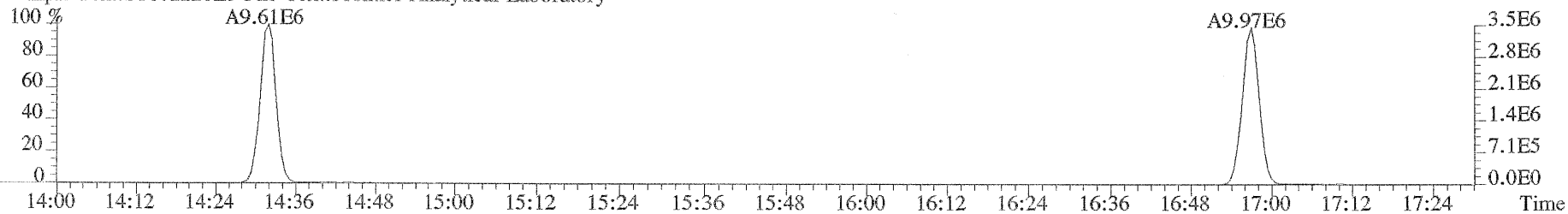
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:00:51 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z2 File Text:Frontier Analytical Laboratory



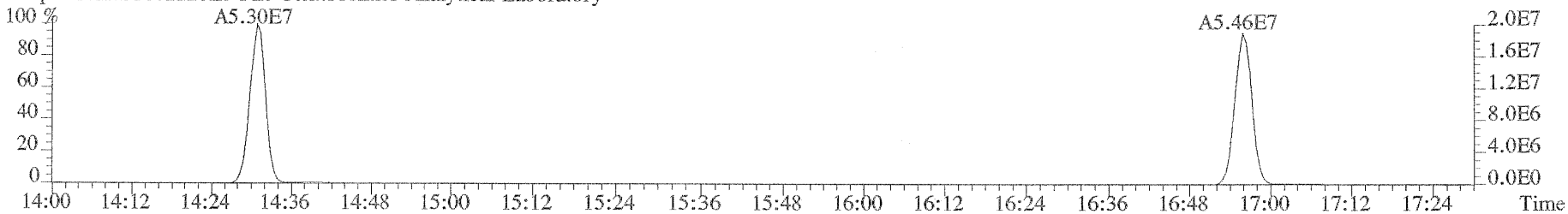
File:22JUL20Z #1-783 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



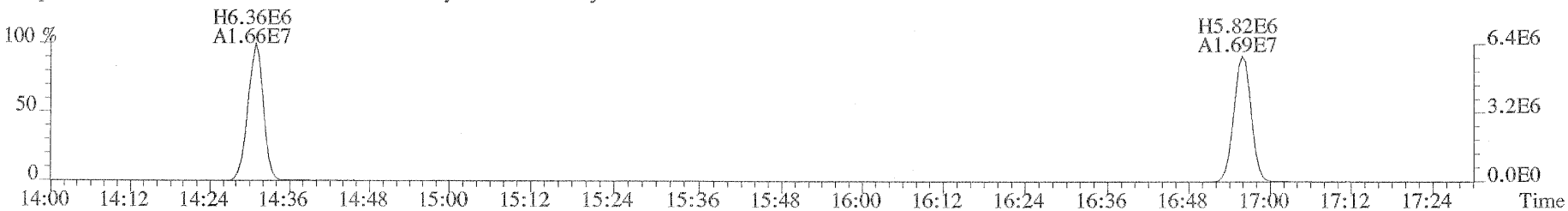
File:22JUL20Z #1-783 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



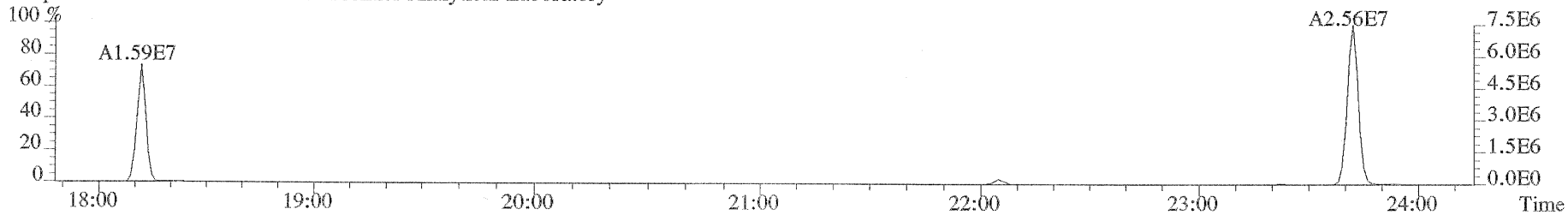
File:22JUL20Z #1-783 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



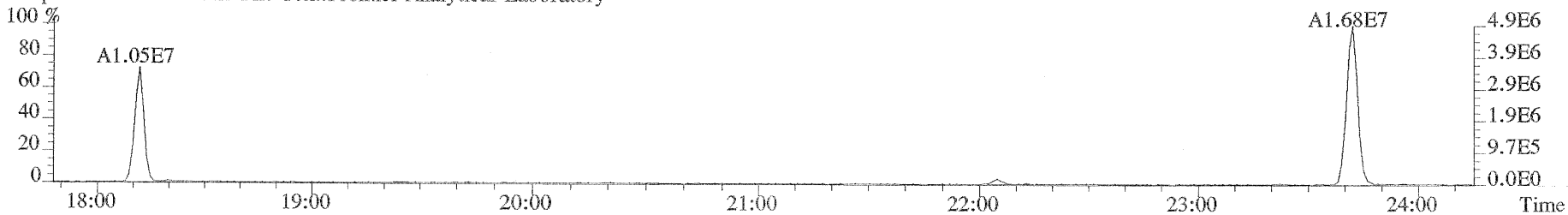
File:22JUL20Z #1-783 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



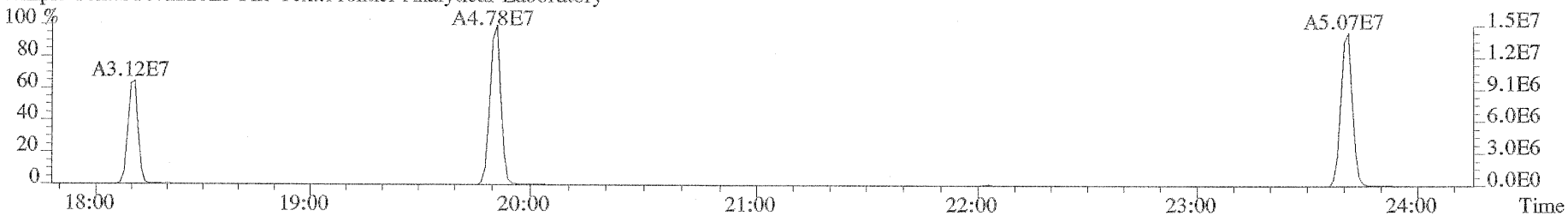
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



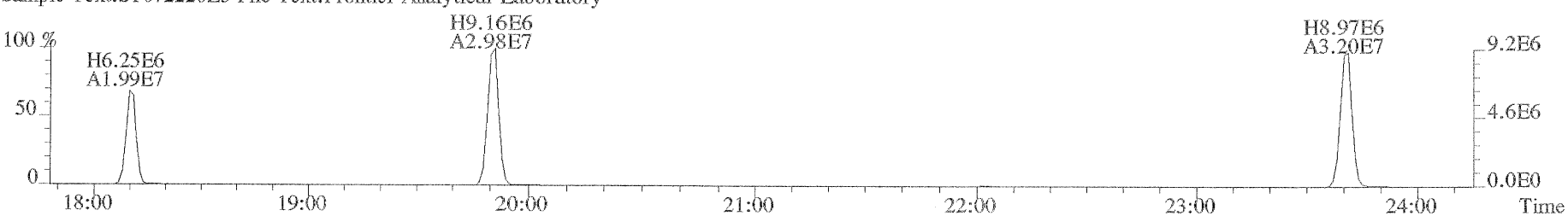
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



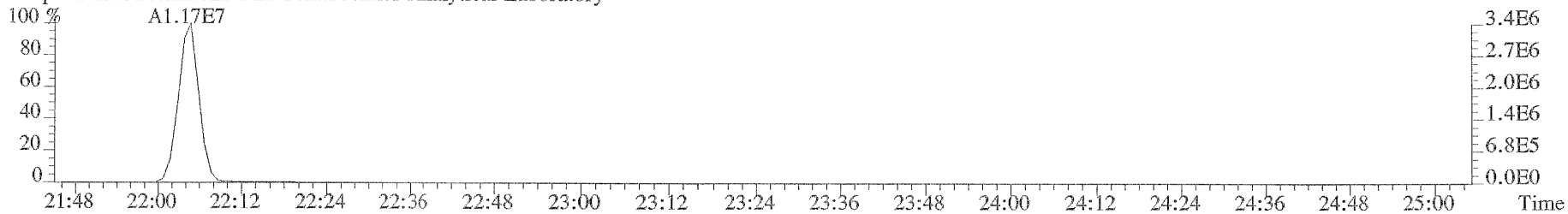
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



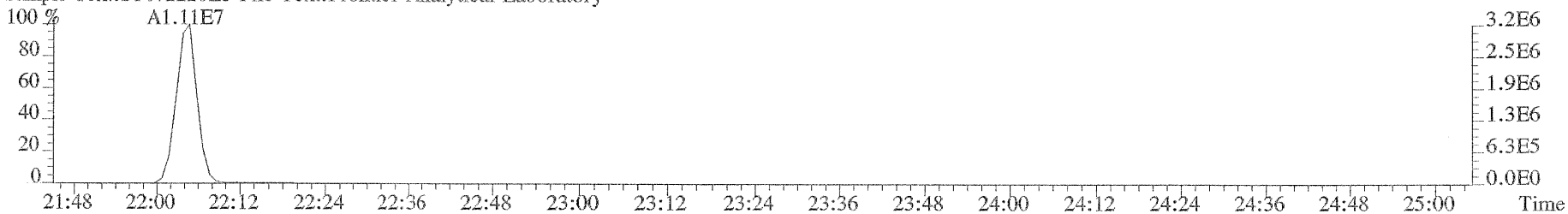
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



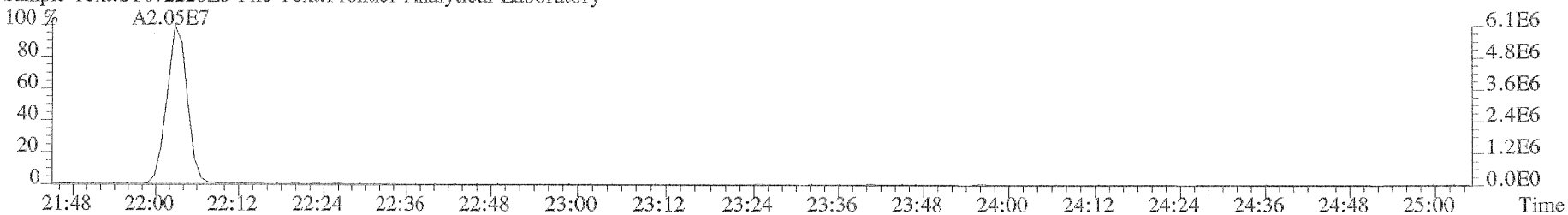
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



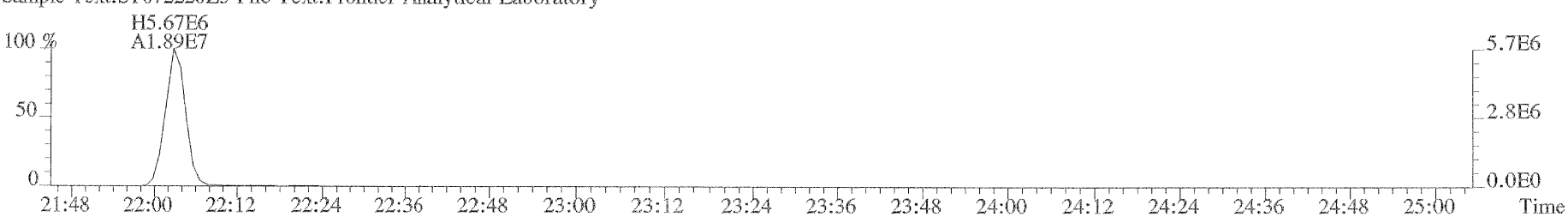
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



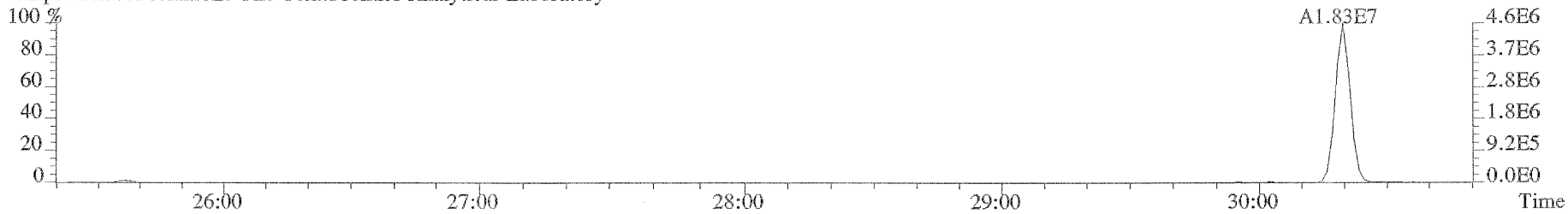
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



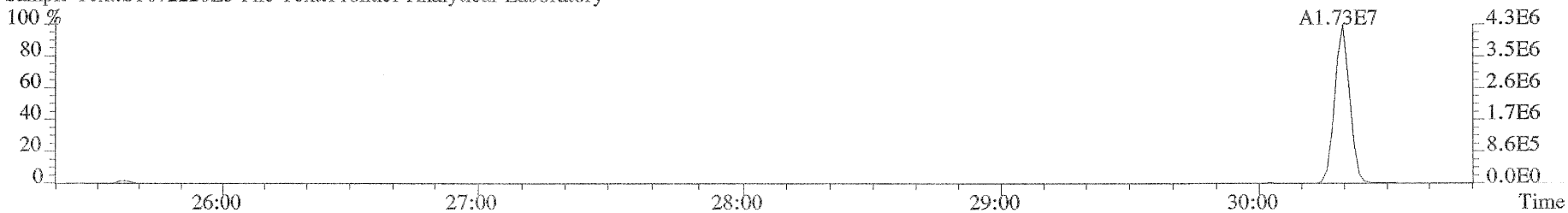
File:22JUL20Z #1-467 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



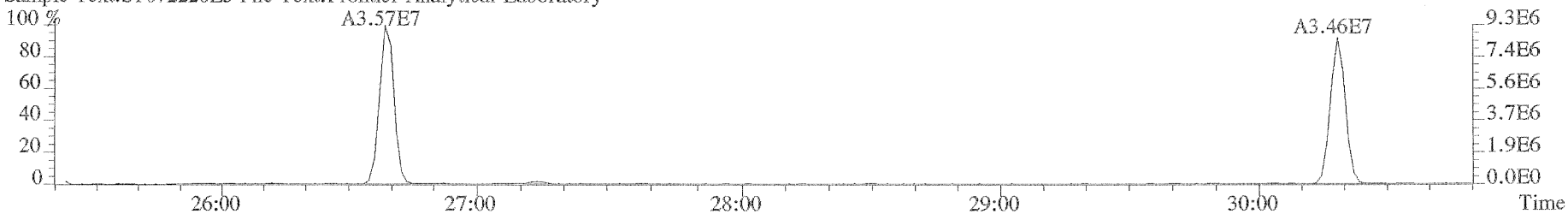
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



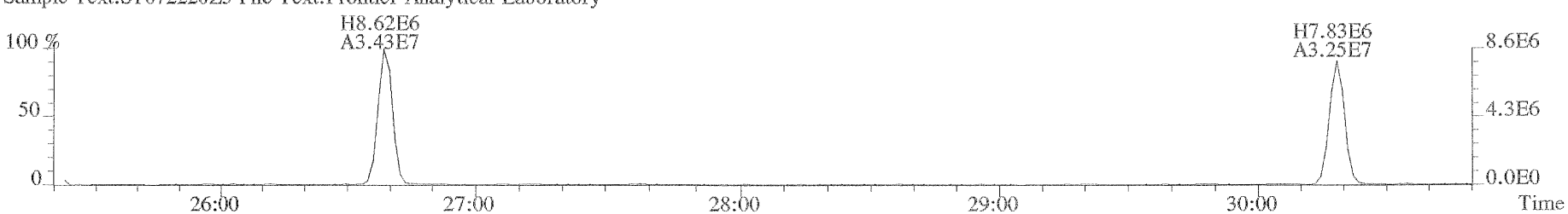
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



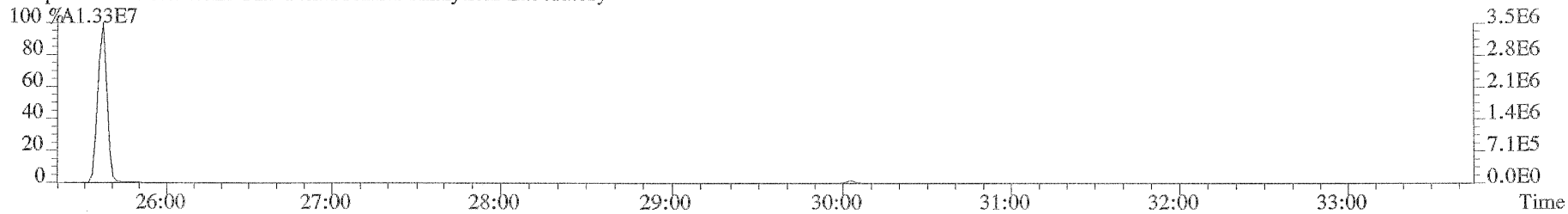
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



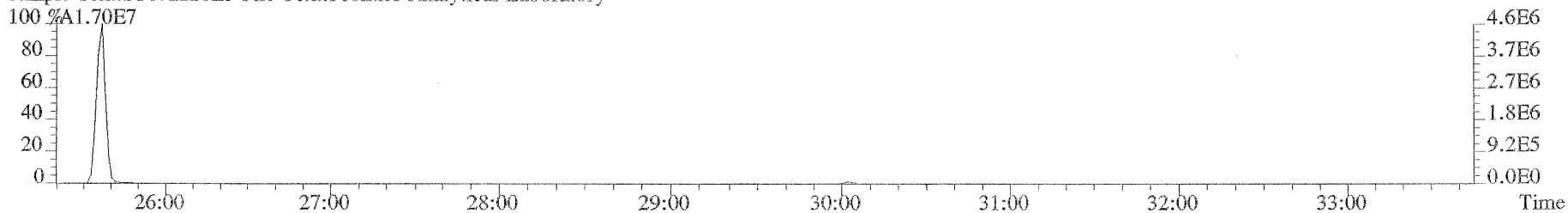
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



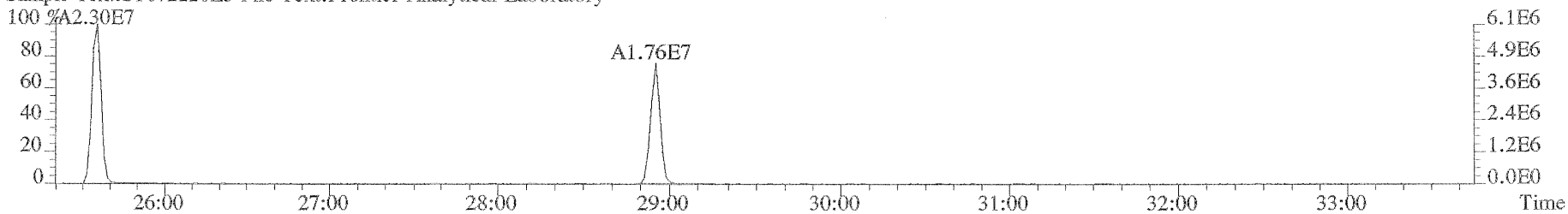
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



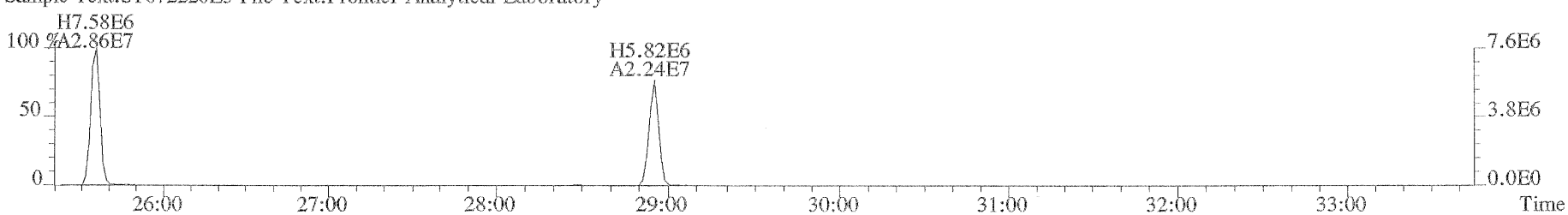
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



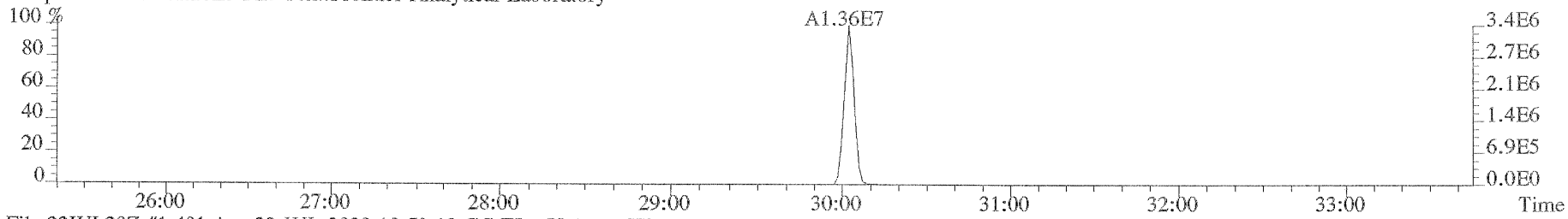
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



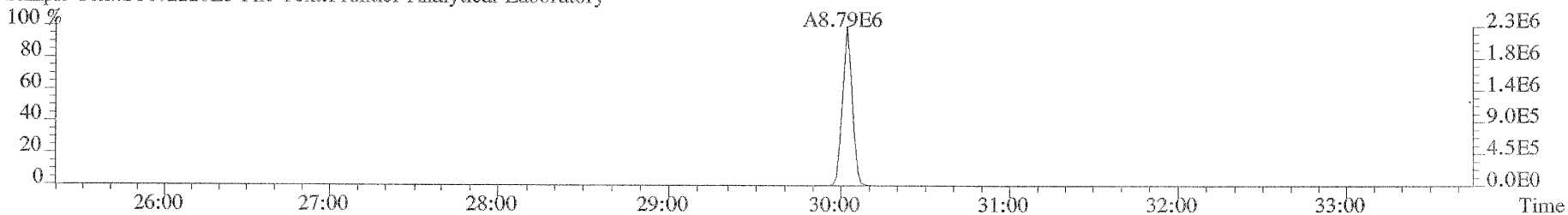
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



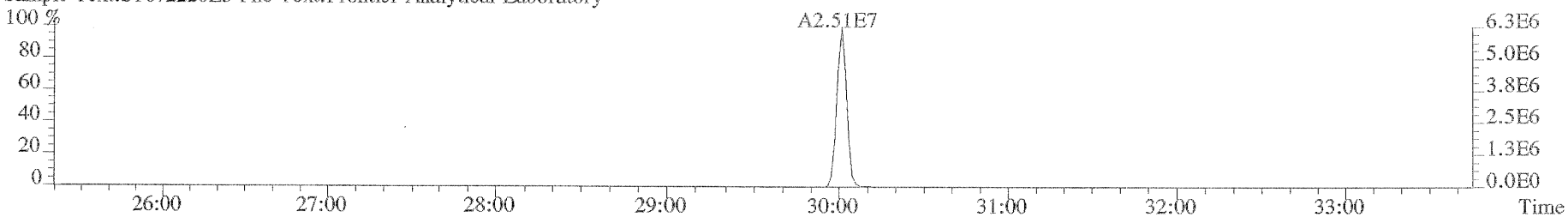
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



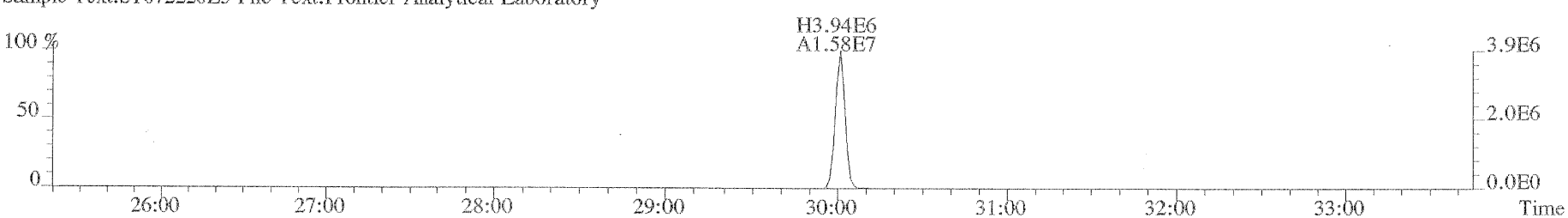
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



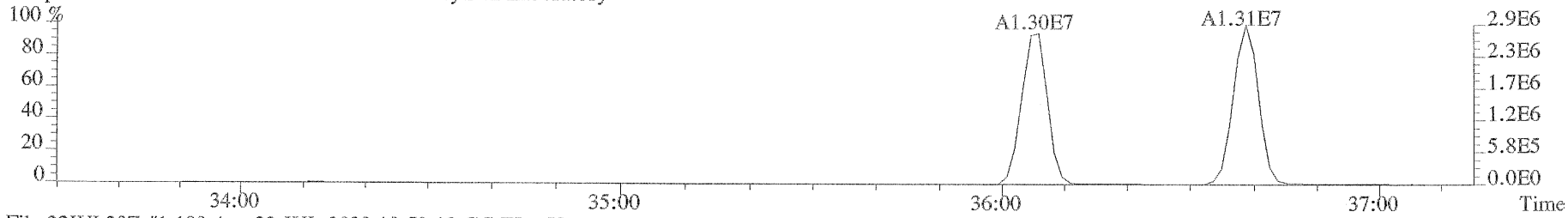
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



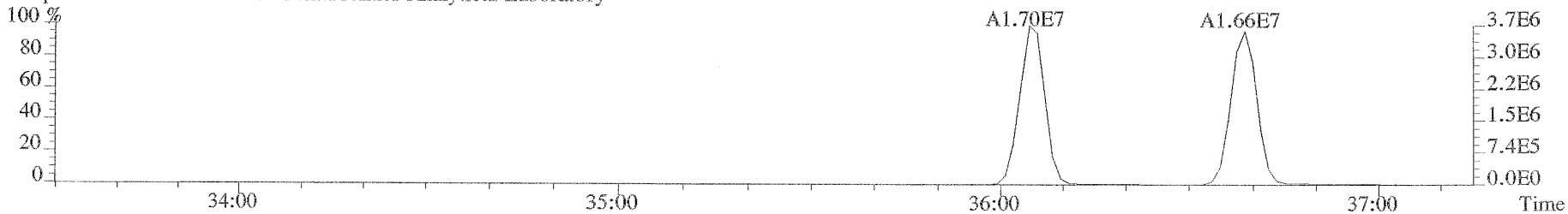
File:22JUL20Z #1-401 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



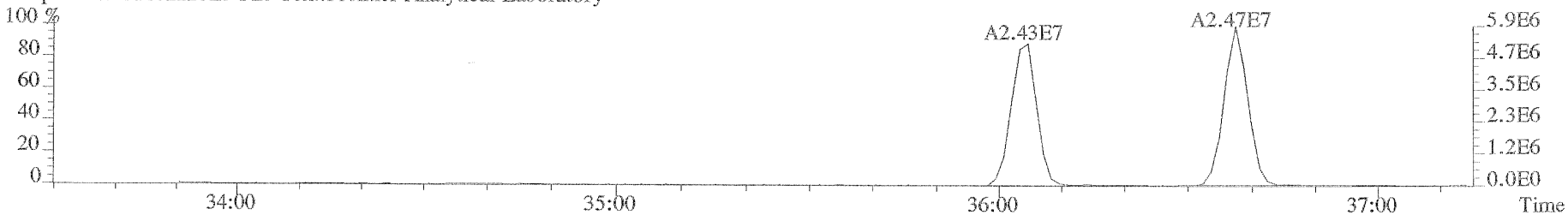
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



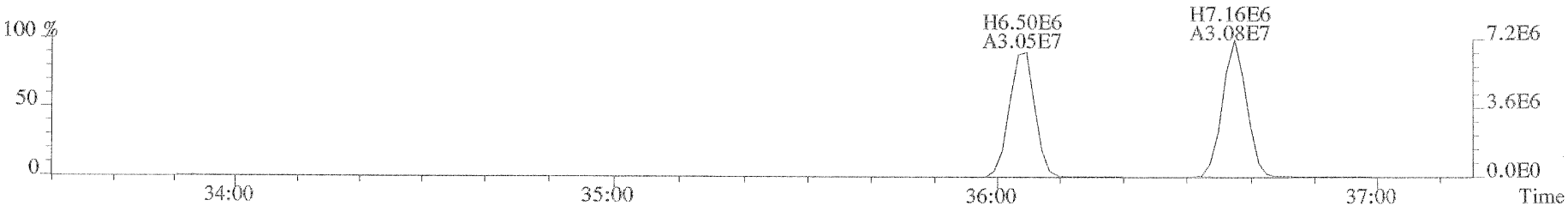
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



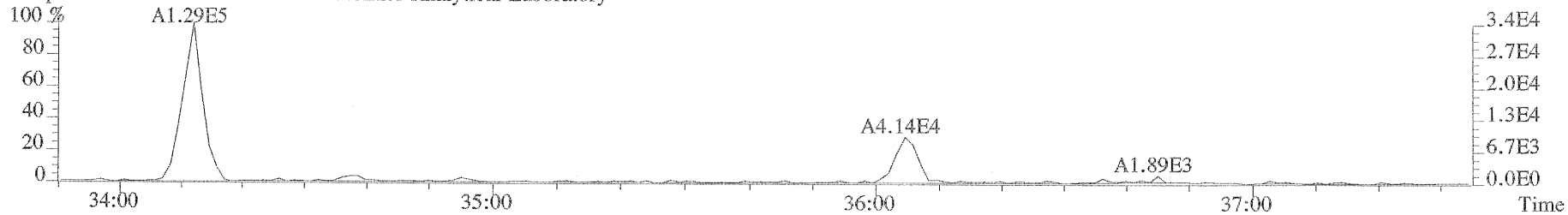
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



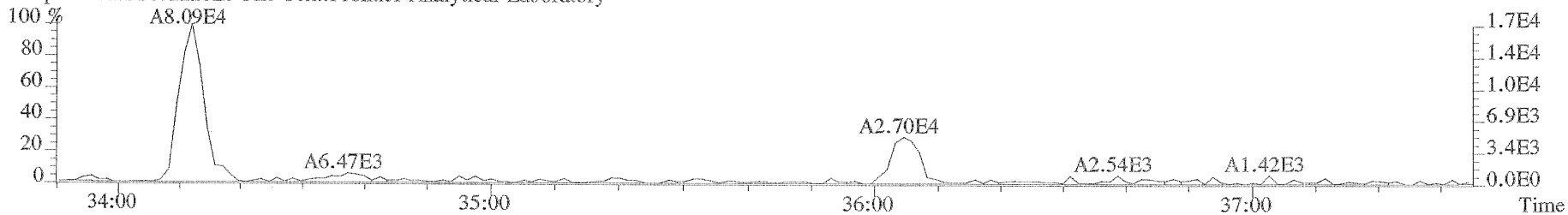
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



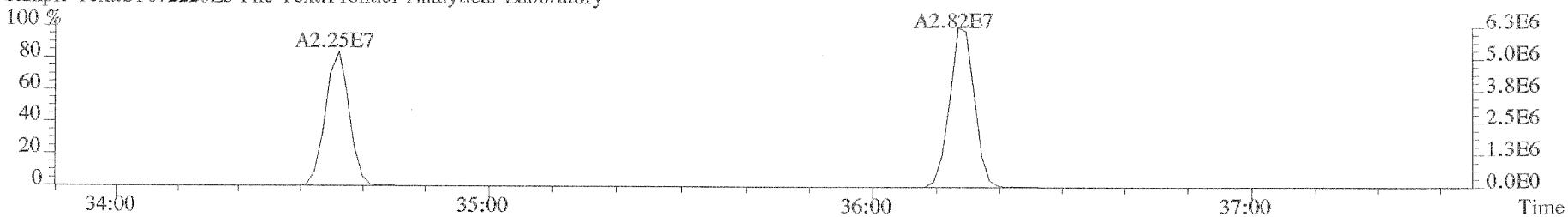
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



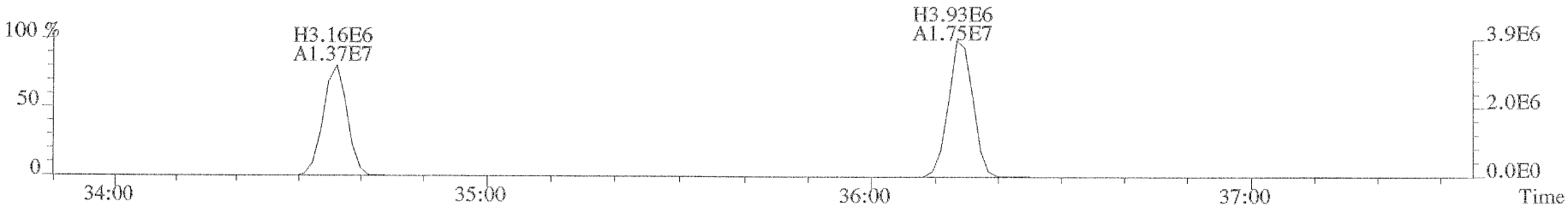
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



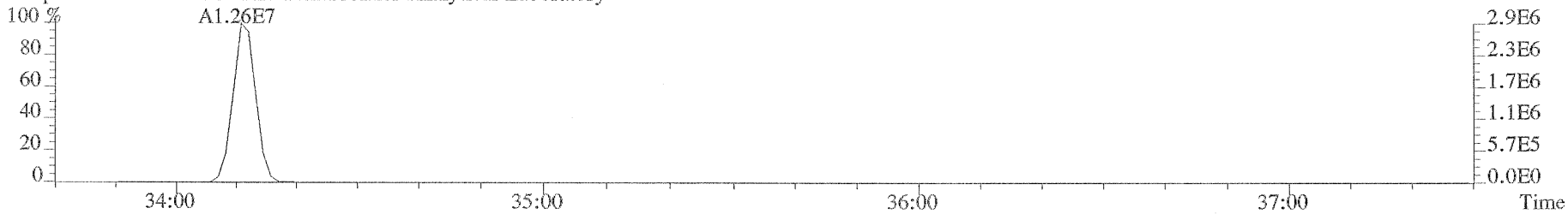
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



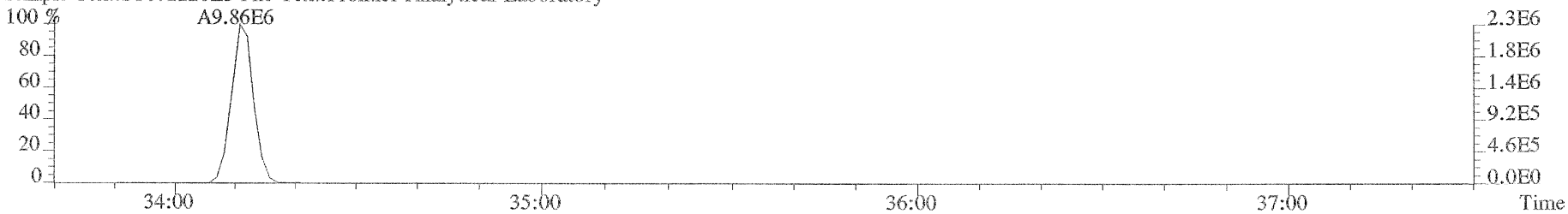
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



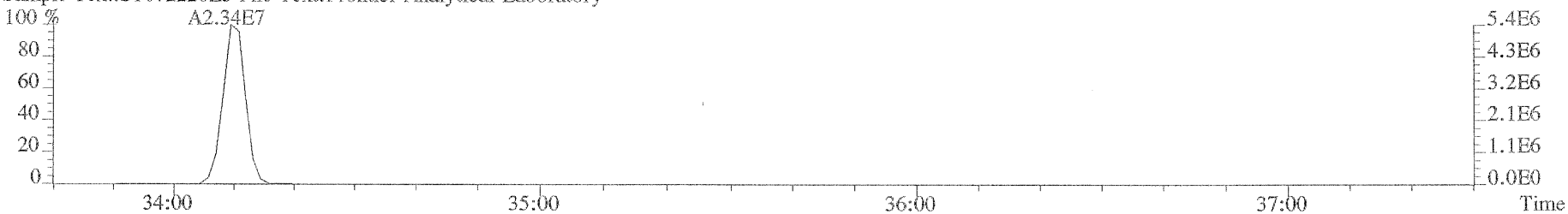
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



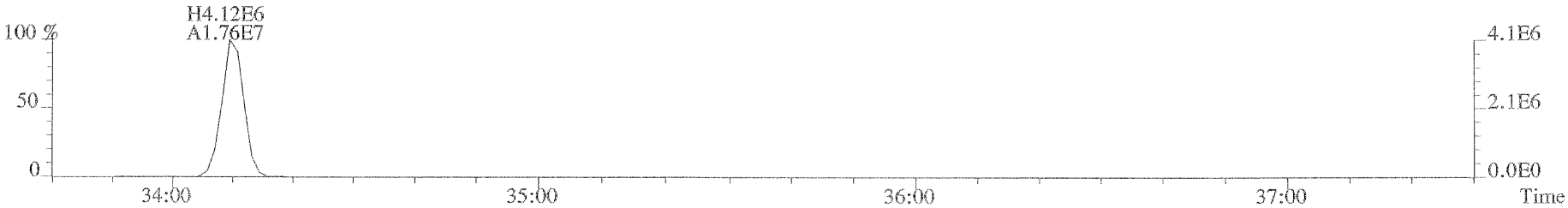
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



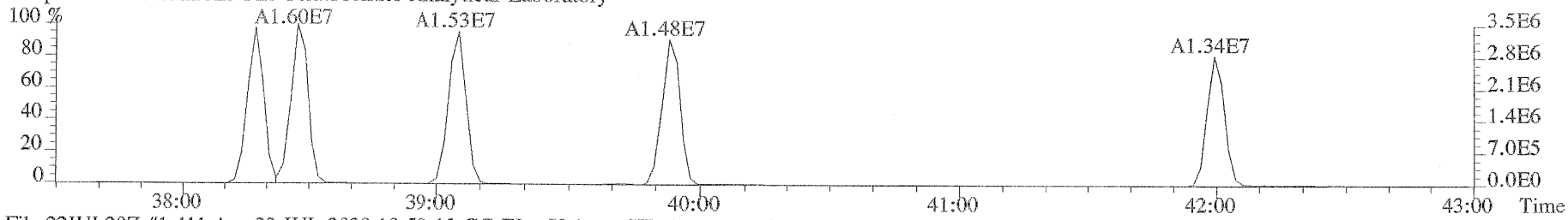
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



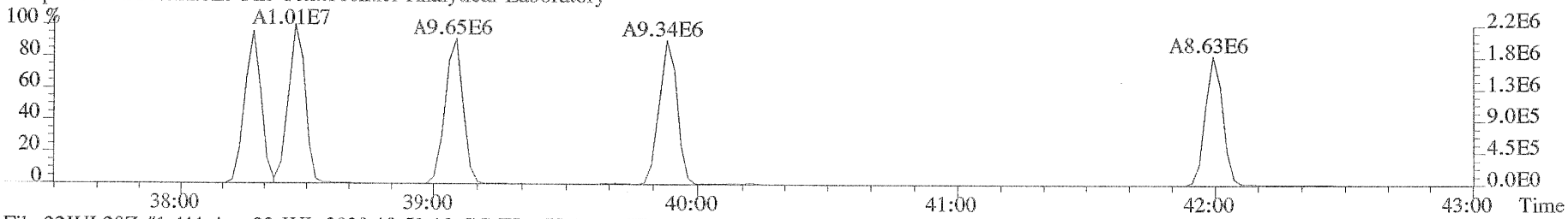
File:22JUL20Z #1-180 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



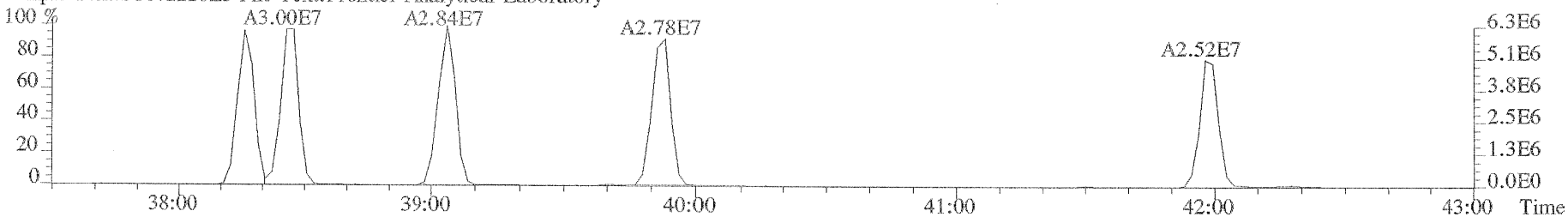
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



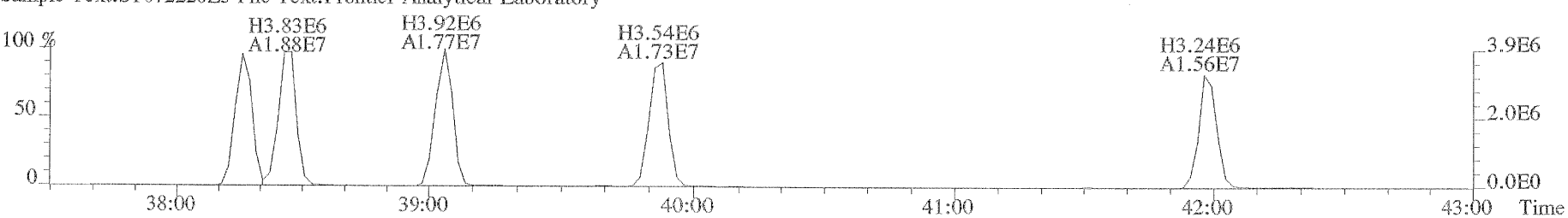
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



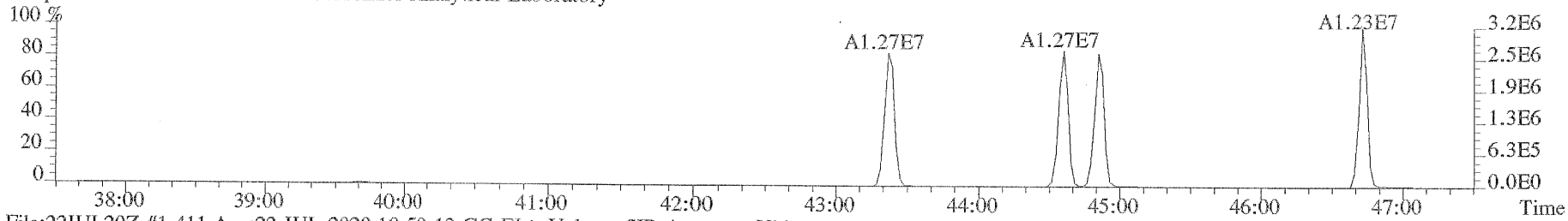
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



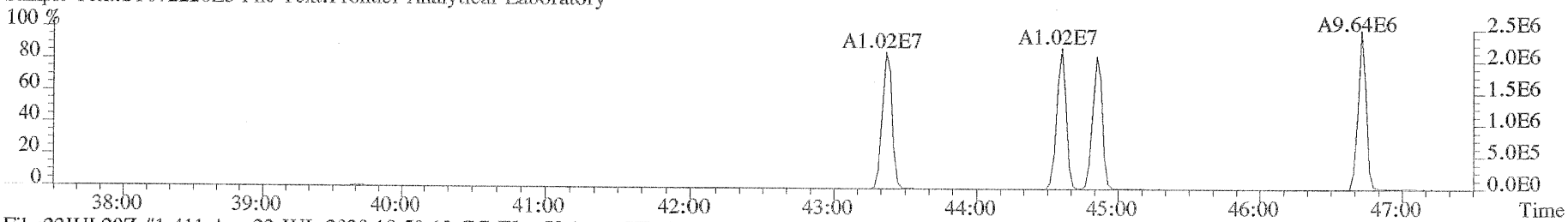
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



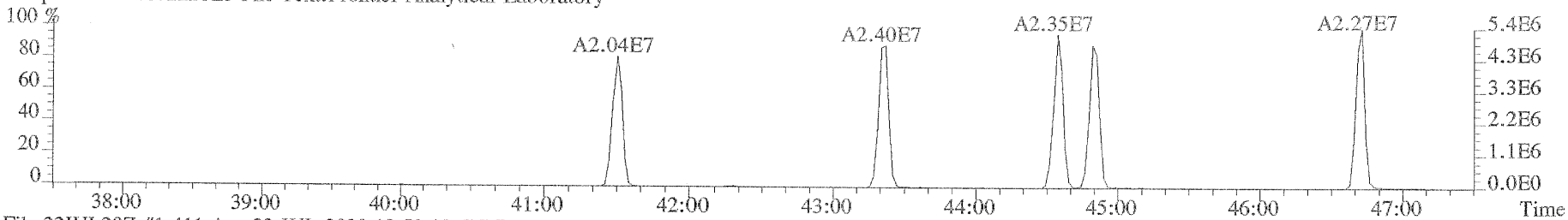
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



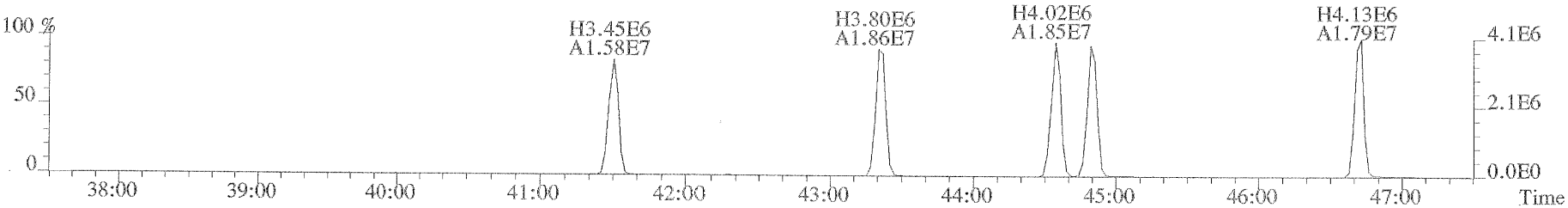
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



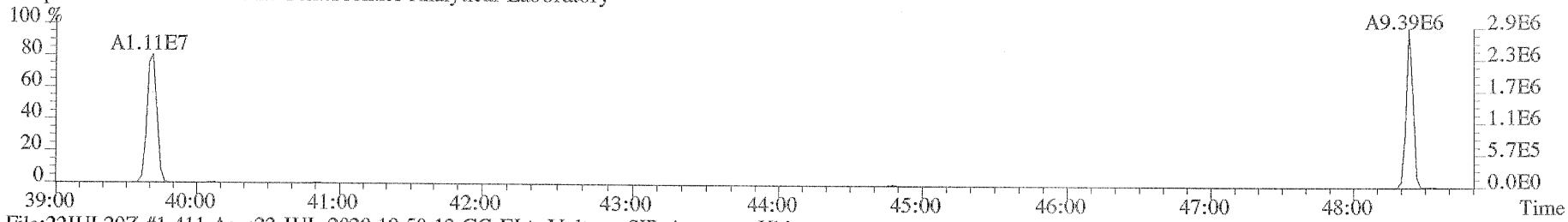
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



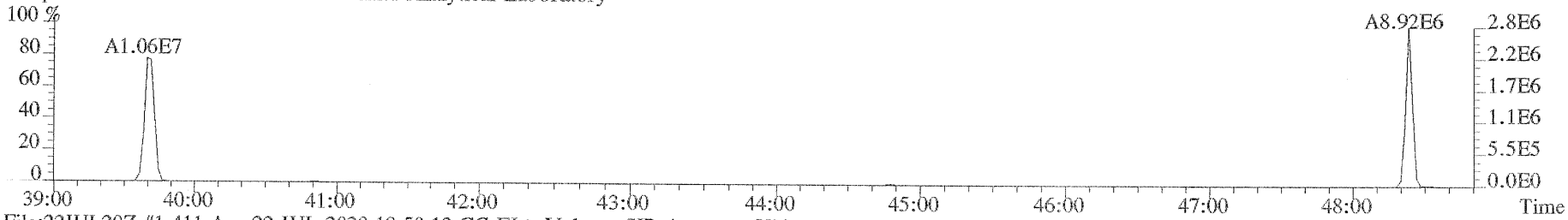
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



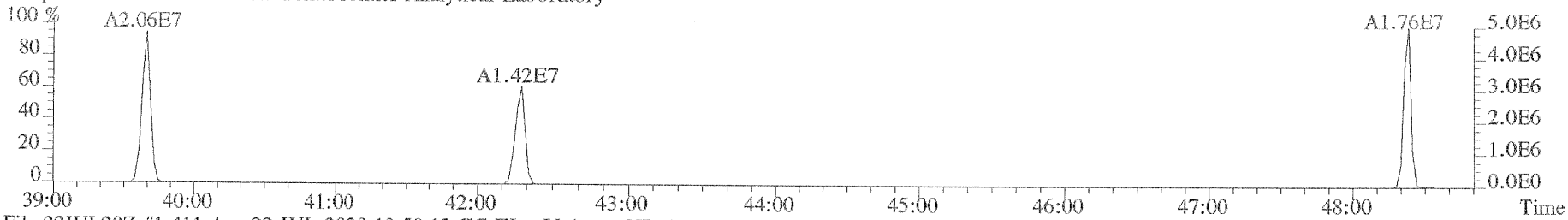
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



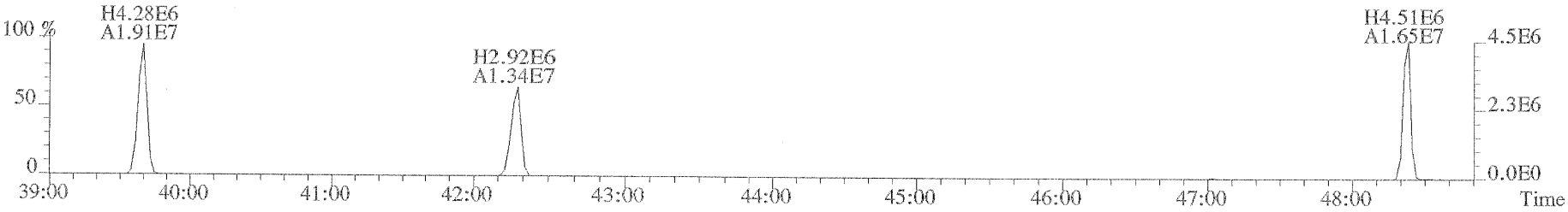
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



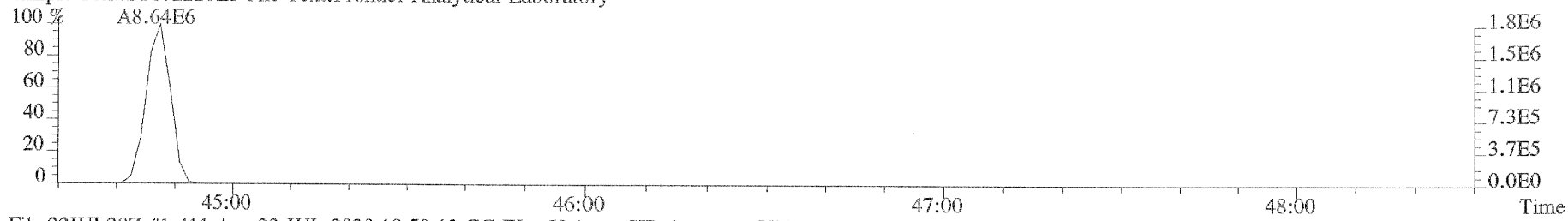
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



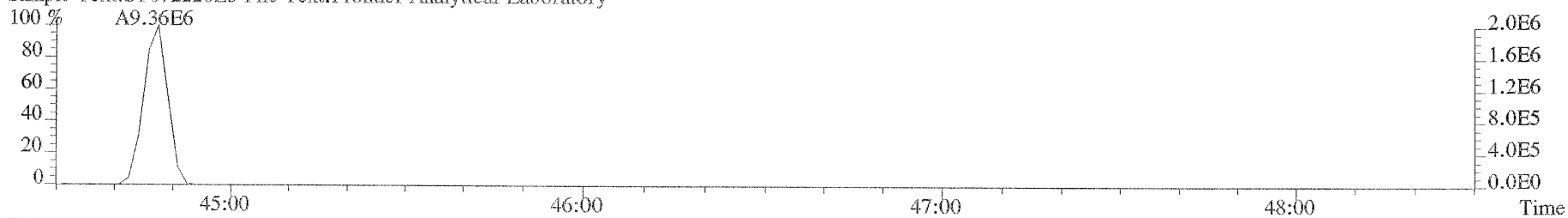
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



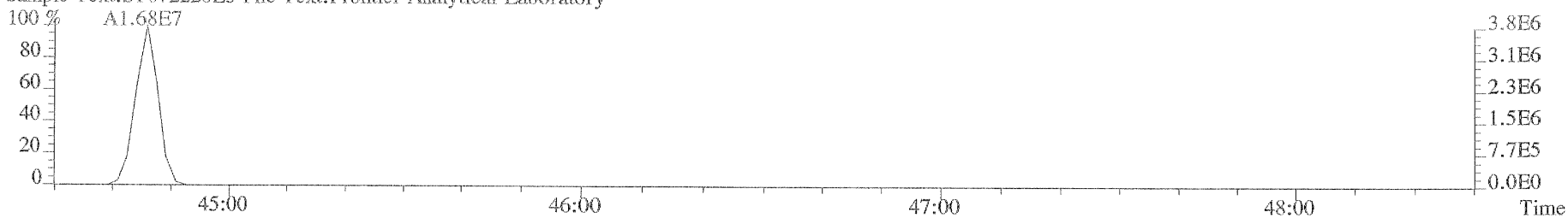
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



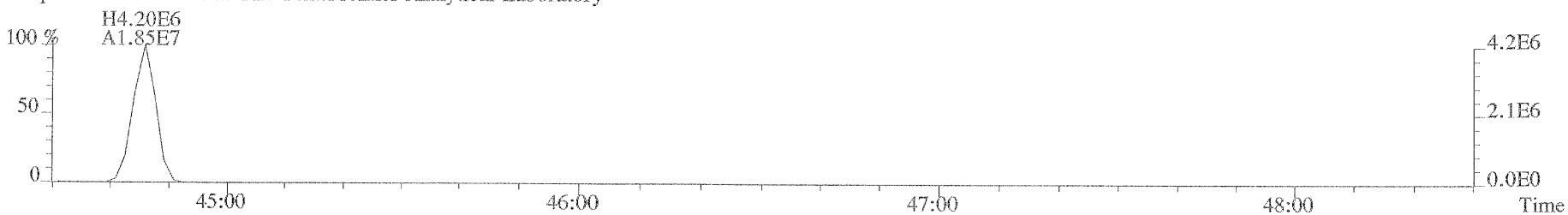
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



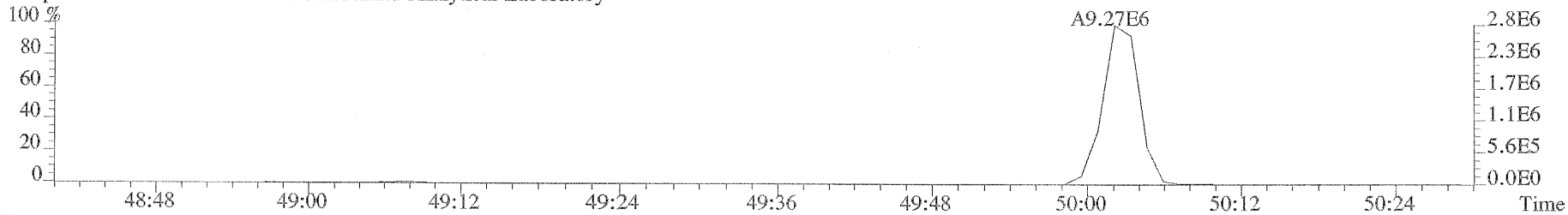
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



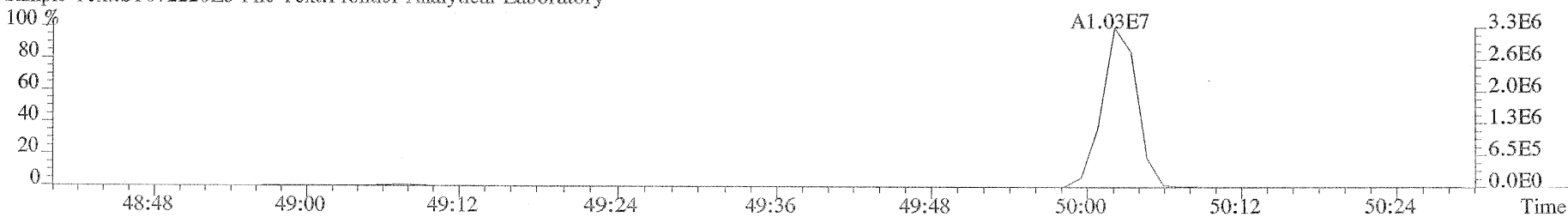
File:22JUL20Z #1-411 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



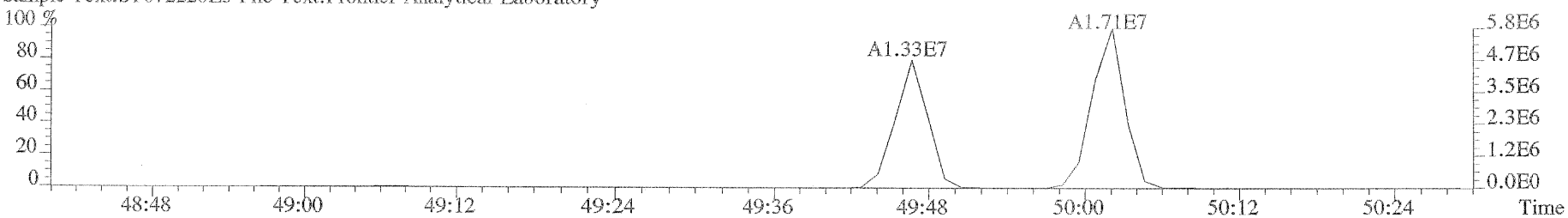
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



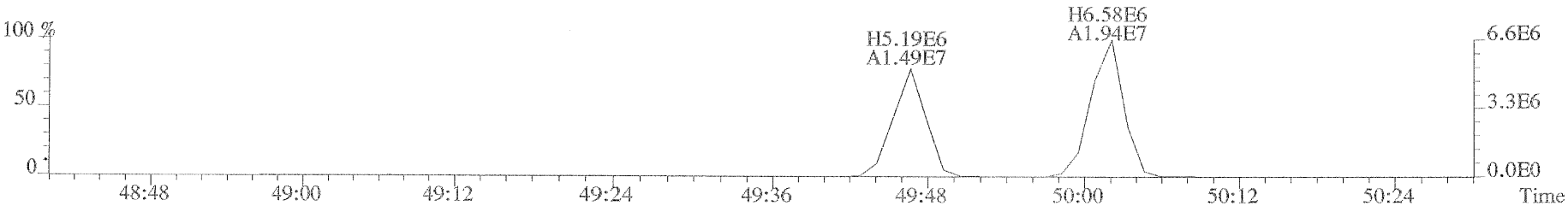
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



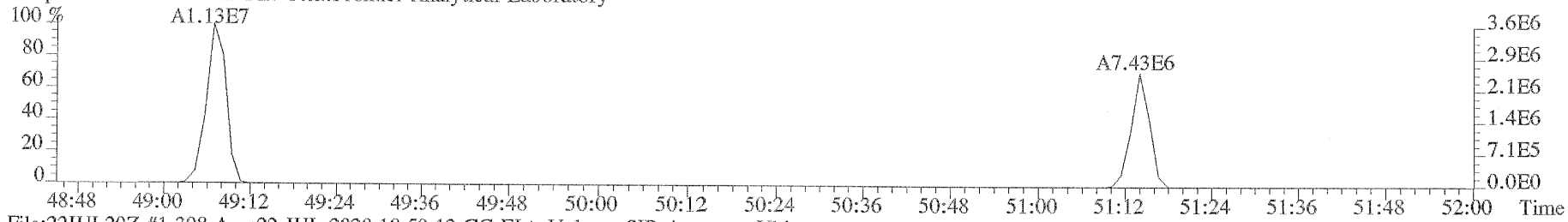
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



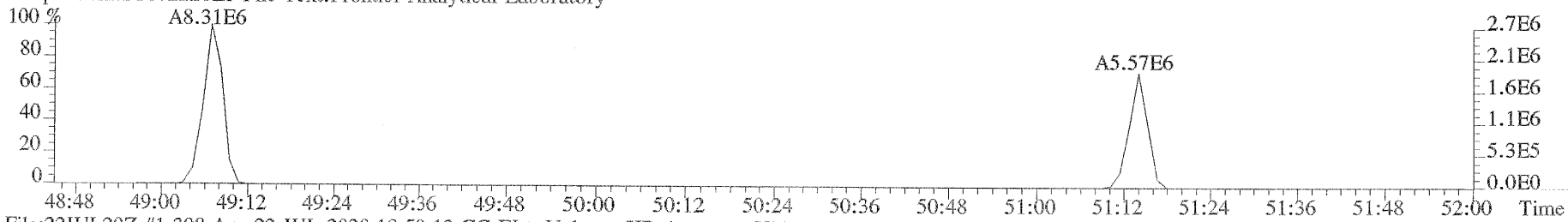
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



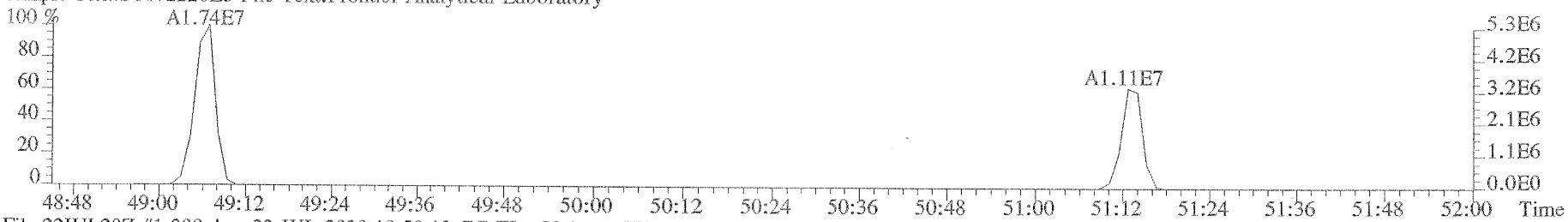
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



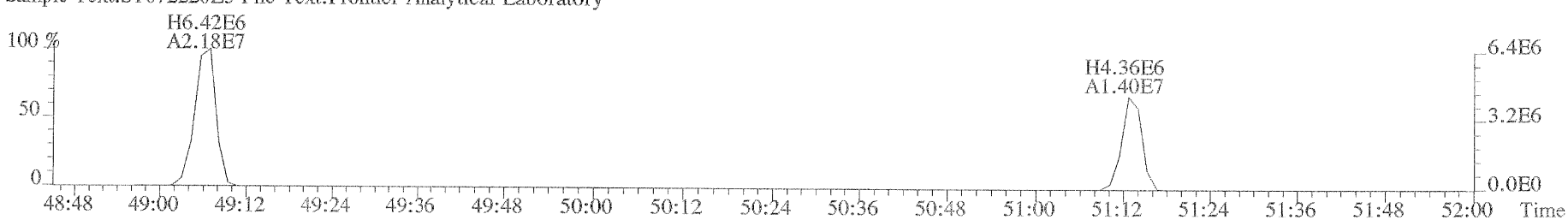
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



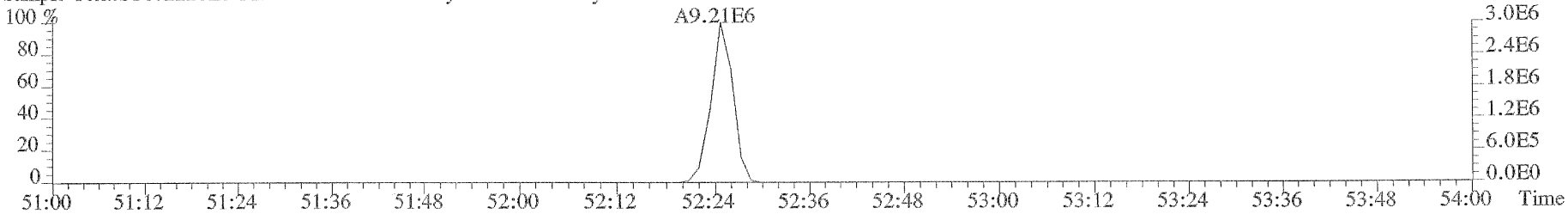
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



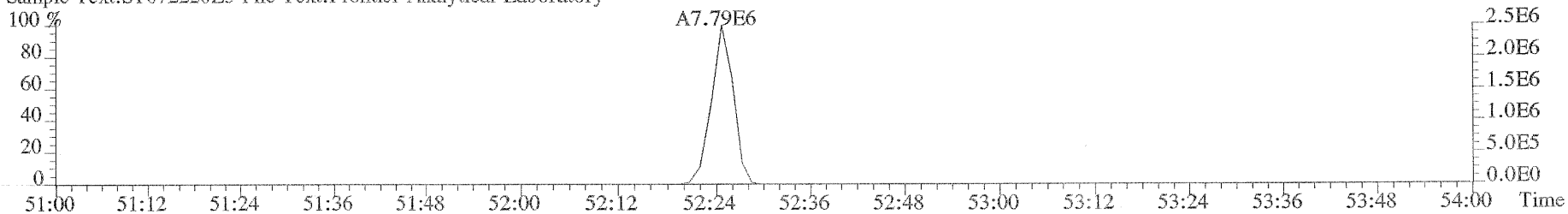
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



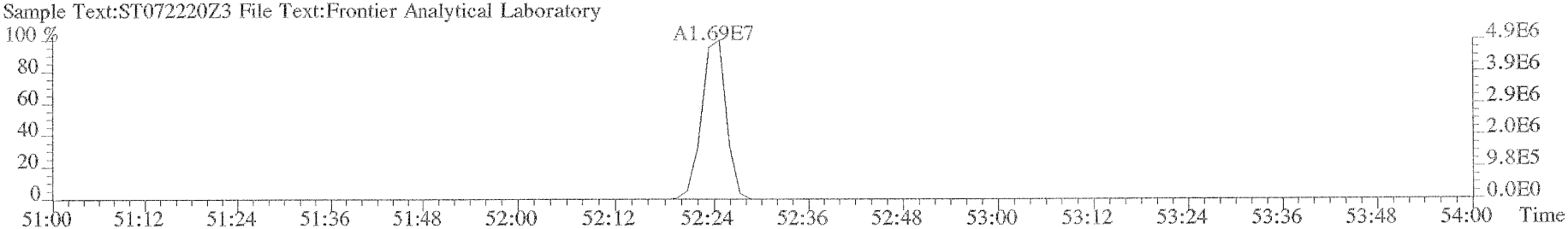
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



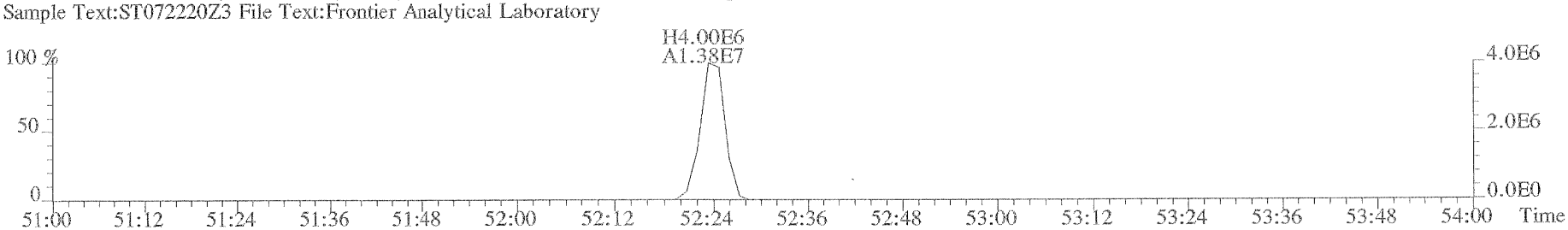
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



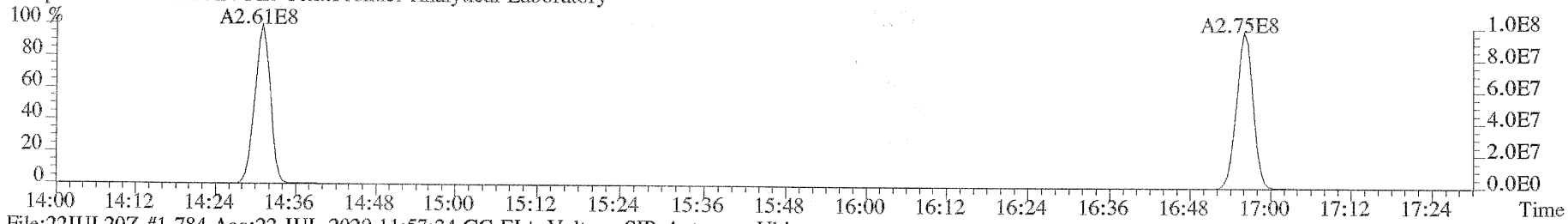
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



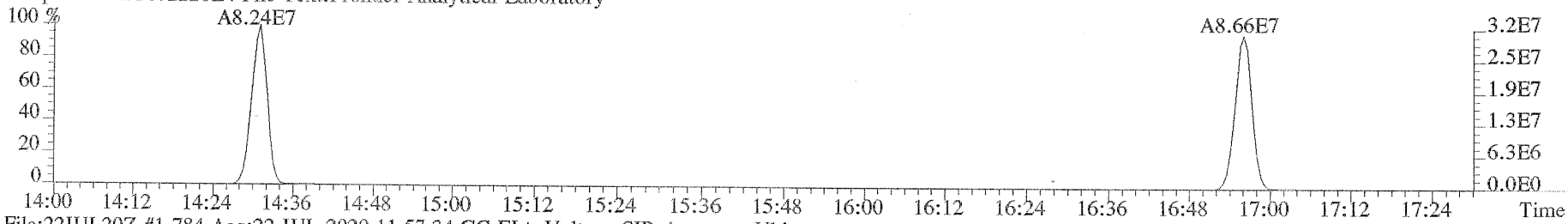
File:22JUL20Z #1-308 Acq:22-JUL-2020 10:59:13 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z3 File Text:Frontier Analytical Laboratory



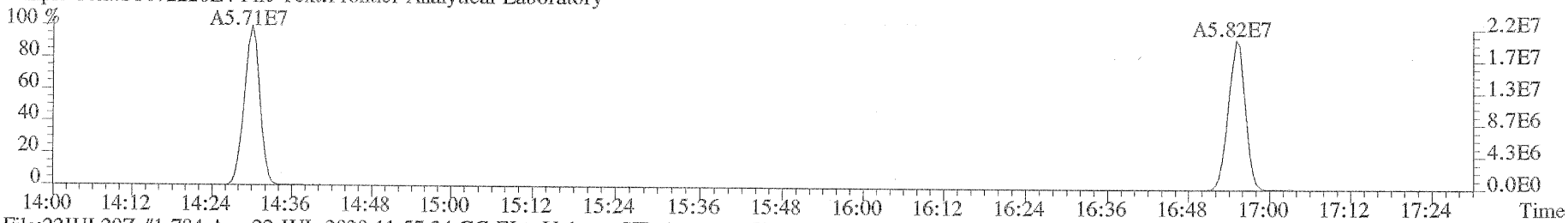
File:22JUL20Z #1-784 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



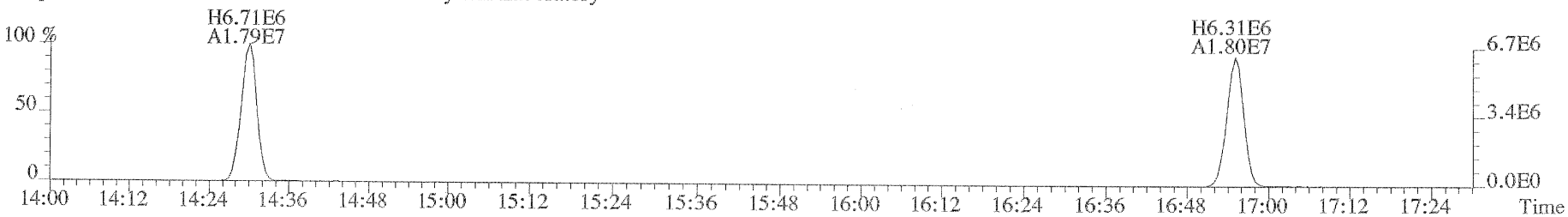
File:22JUL20Z #1-784 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



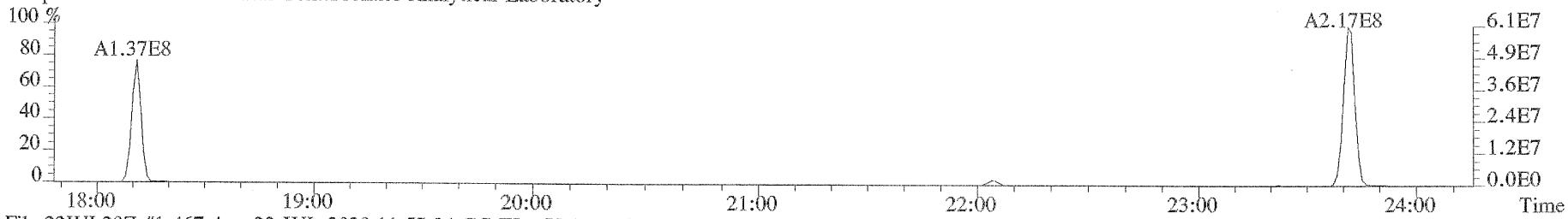
File:22JUL20Z #1-784 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



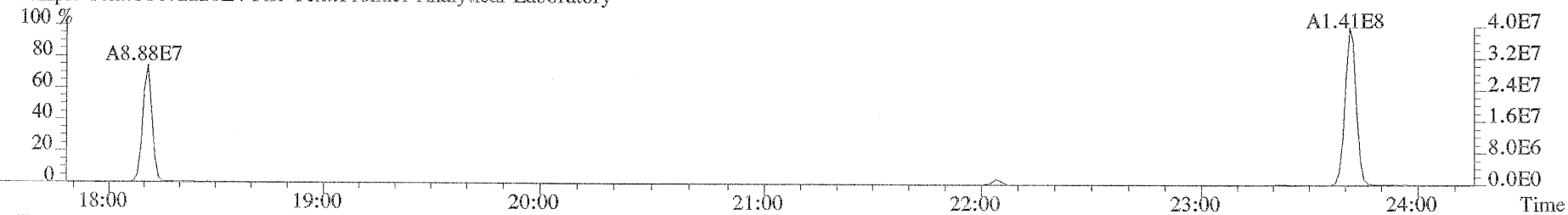
File:22JUL20Z #1-784 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



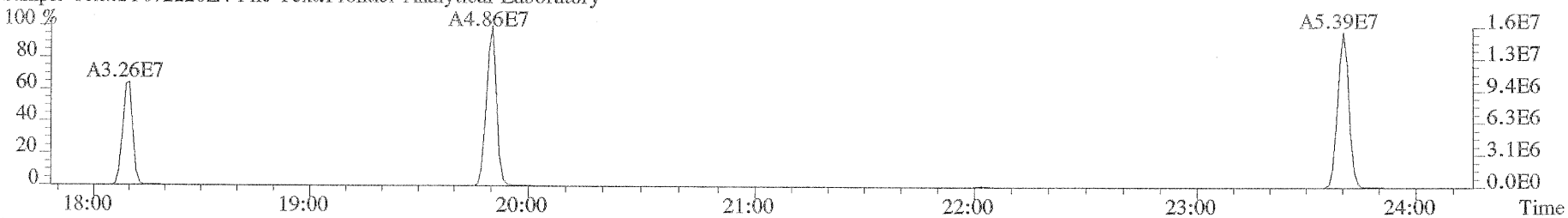
File:22JUL20Z #1-467 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



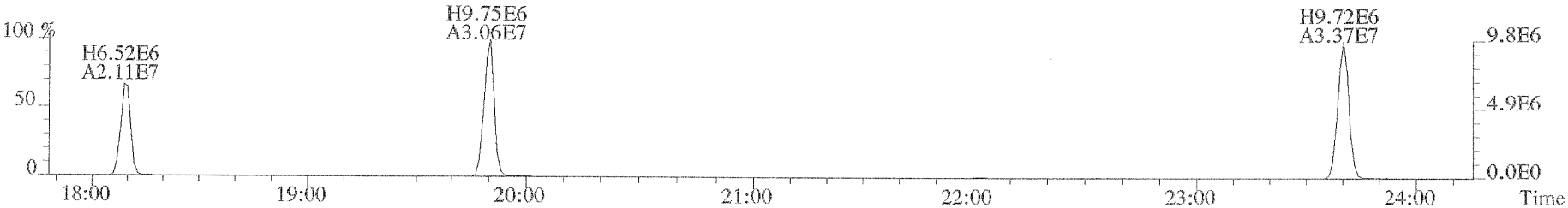
File:22JUL20Z #1-467 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



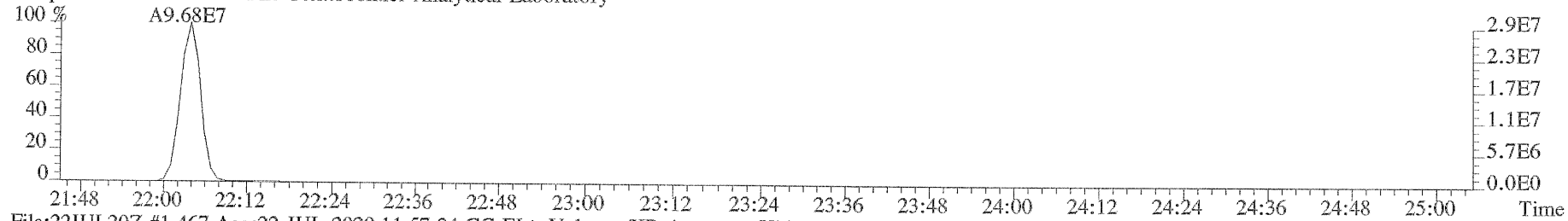
File:22JUL20Z #1-467 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



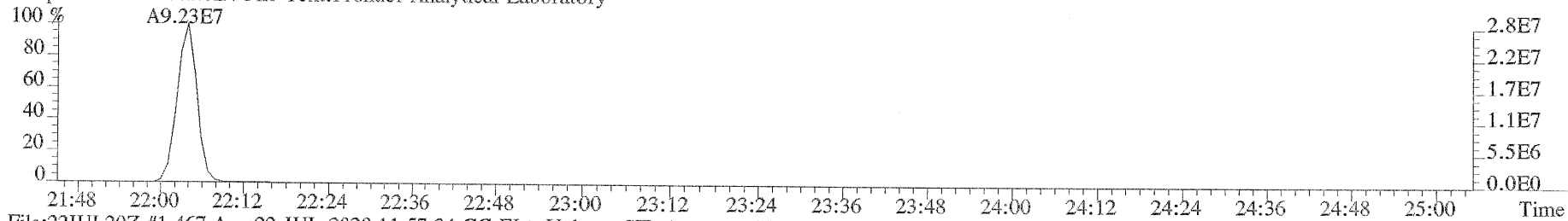
File:22JUL20Z #1-467 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



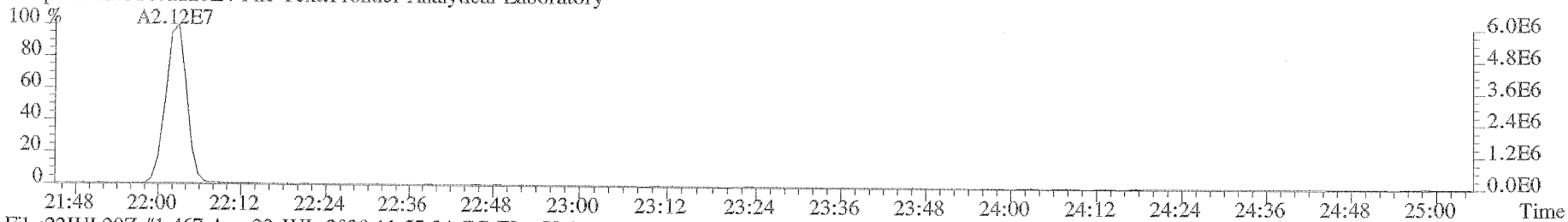
File:22JUL20Z #1-467 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



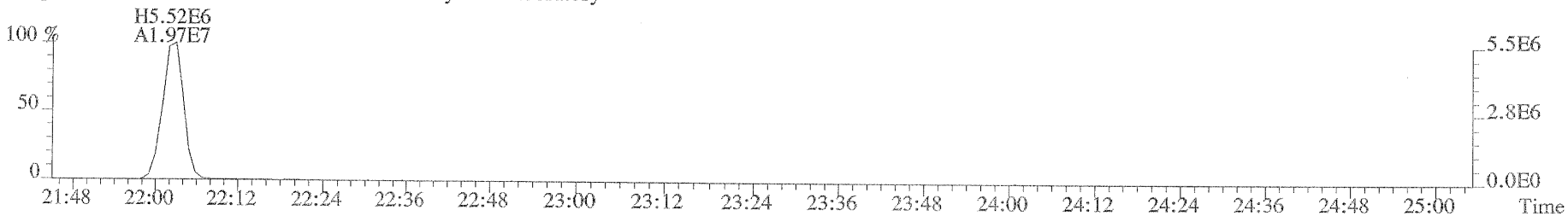
File:22JUL20Z #1-467 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



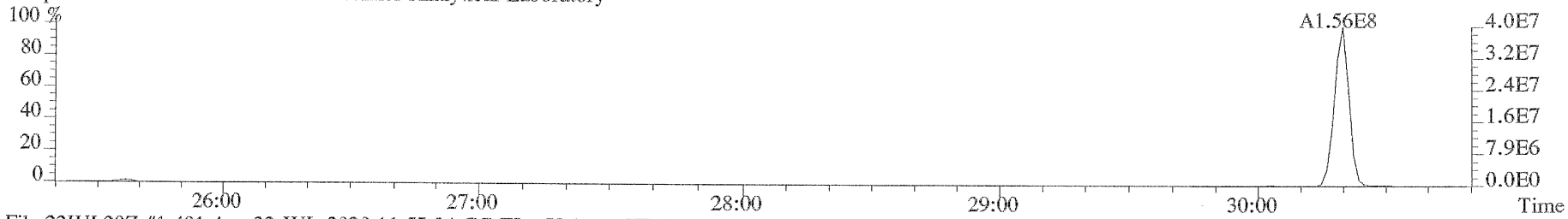
File:22JUL20Z #1-467 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



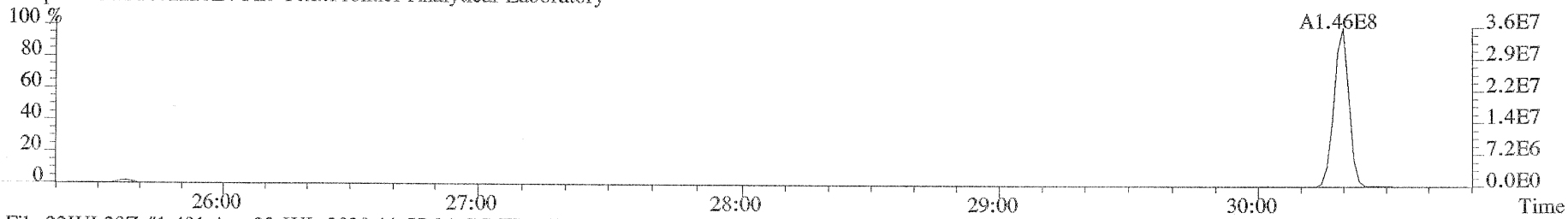
File:22JUL20Z #1-467 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



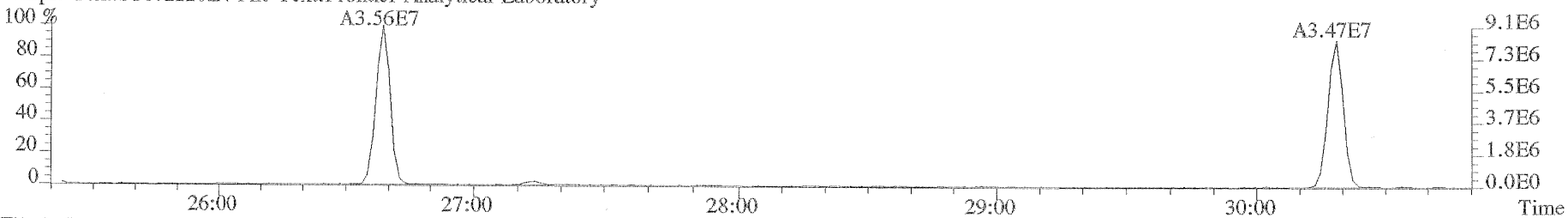
File:22JUL20Z #1-401 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



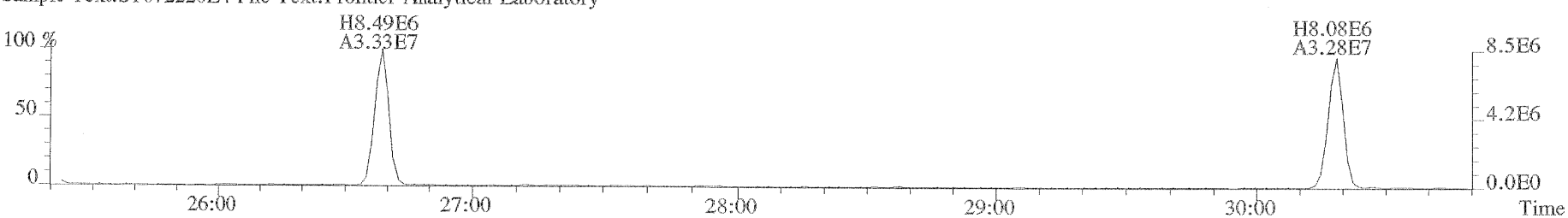
File:22JUL20Z #1-401 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



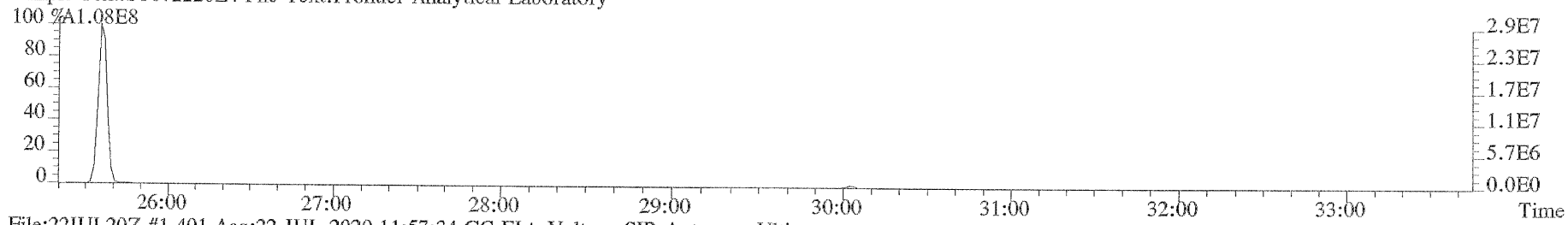
File:22JUL20Z #1-401 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



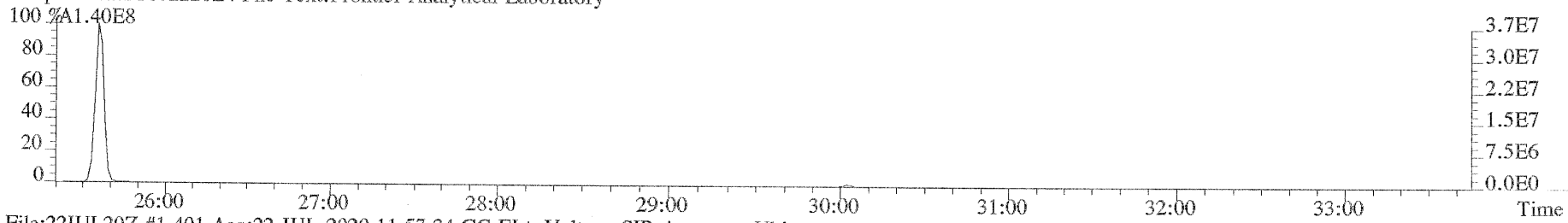
File:22JUL20Z #1-401 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



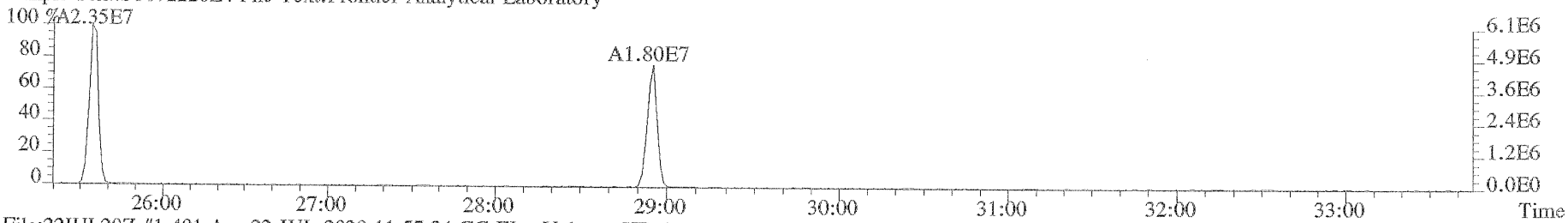
File:22JUL20Z #1-401 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



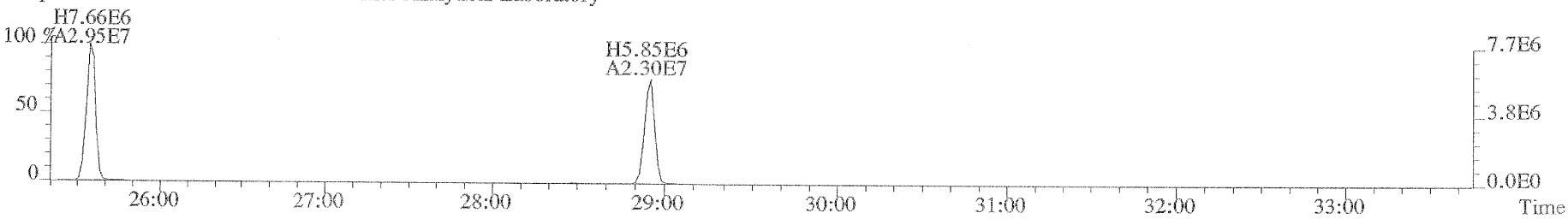
File:22JUL20Z #1-401 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



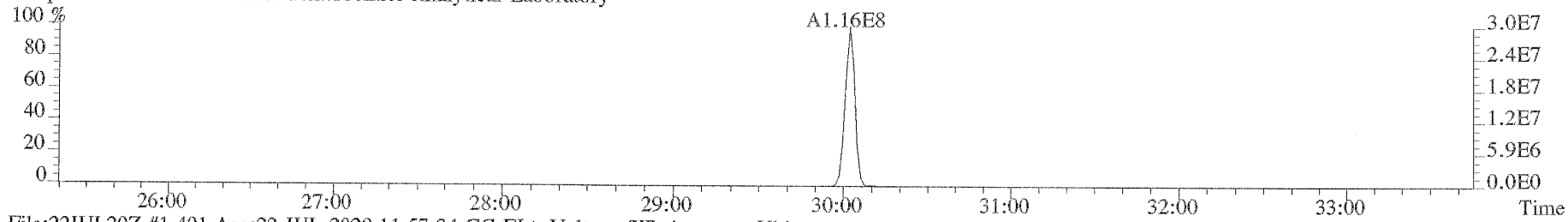
File:22JUL20Z #1-401 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



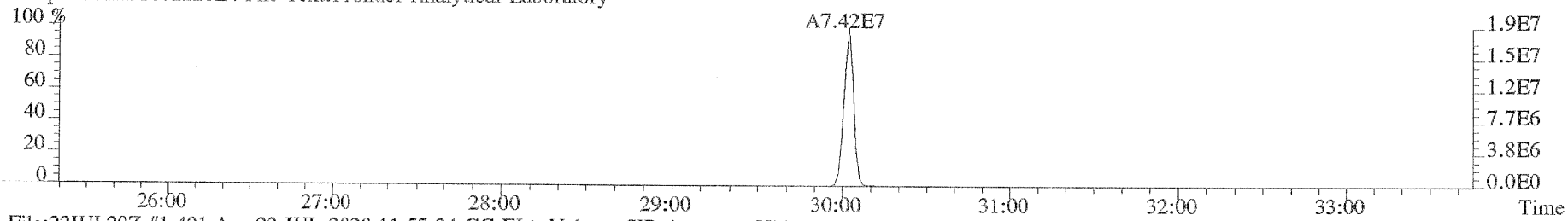
File:22JUL20Z #1-401 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



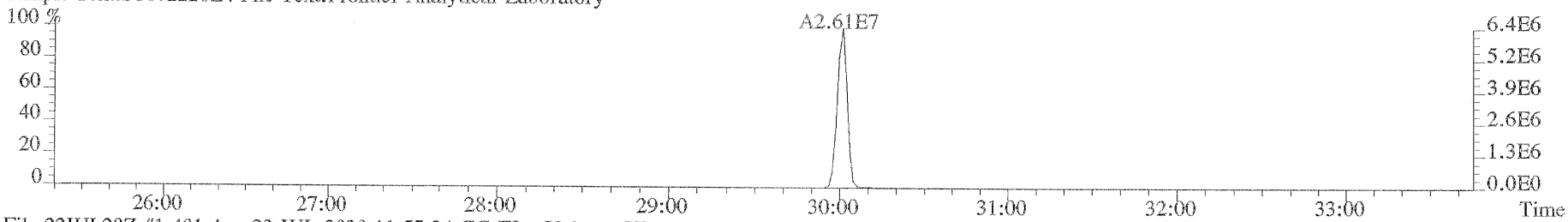
File:22JUL20Z #1-401 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



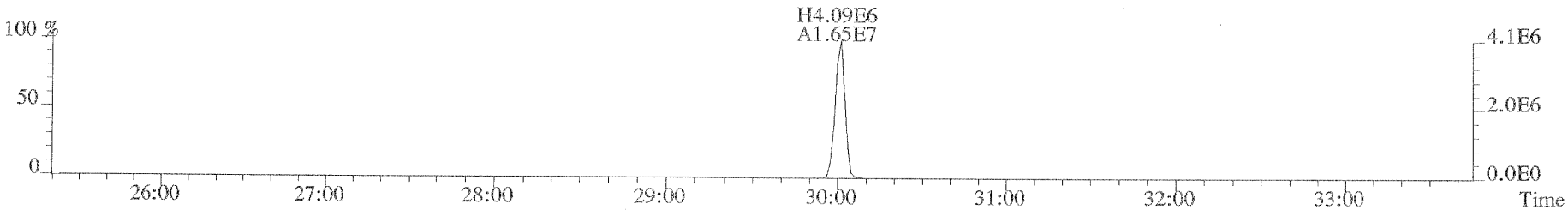
File:22JUL20Z #1-401 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



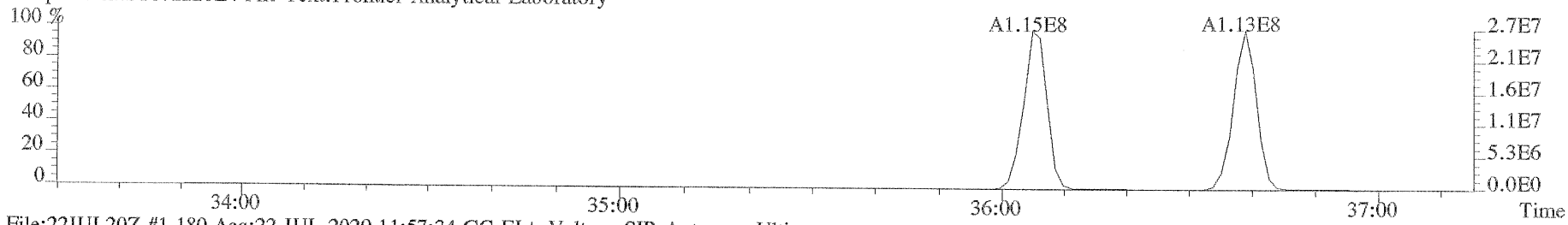
File:22JUL20Z #1-401 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-401 Acq:22-JUL-2020 11:57:34 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:ST072220Z4 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-180 Acq:22-JUL-2020 11:57:34 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:ST072220Z4 File Text:Frontier Analytical Laboratory



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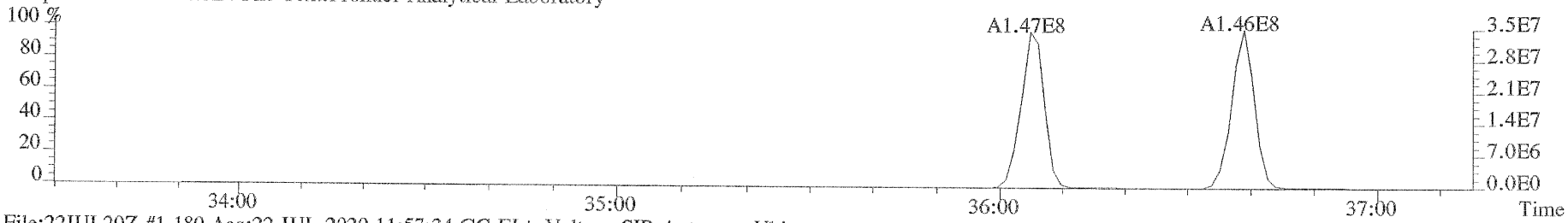
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



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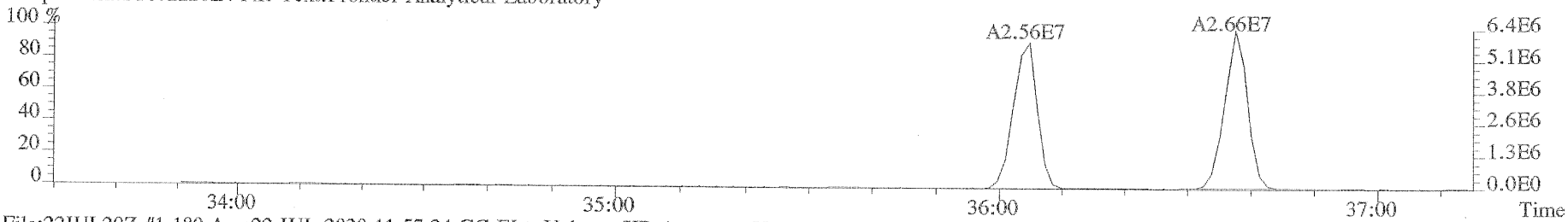
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



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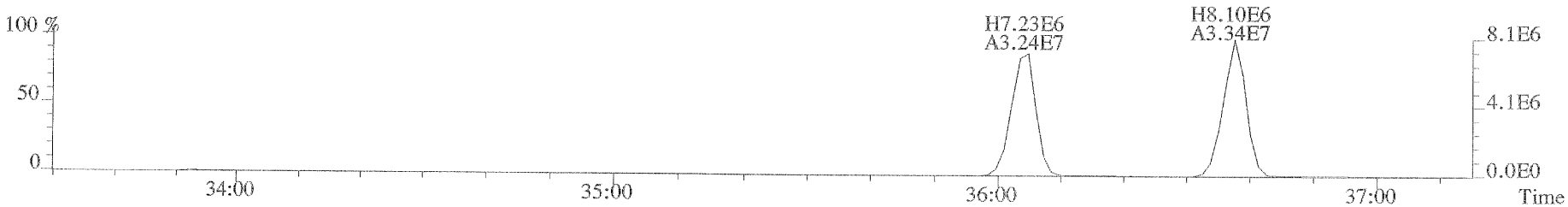
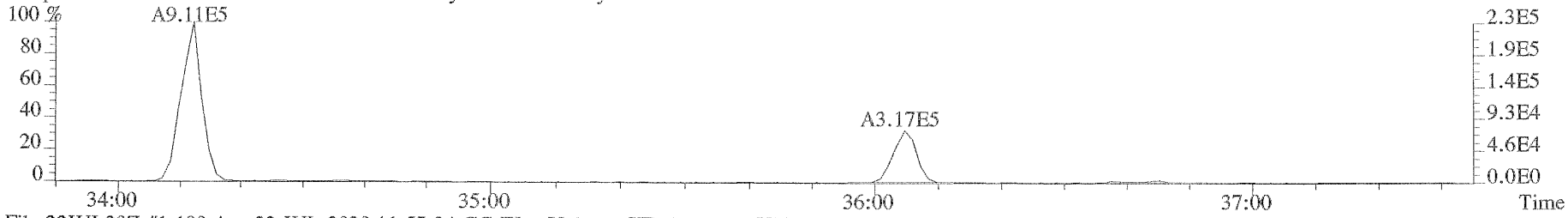
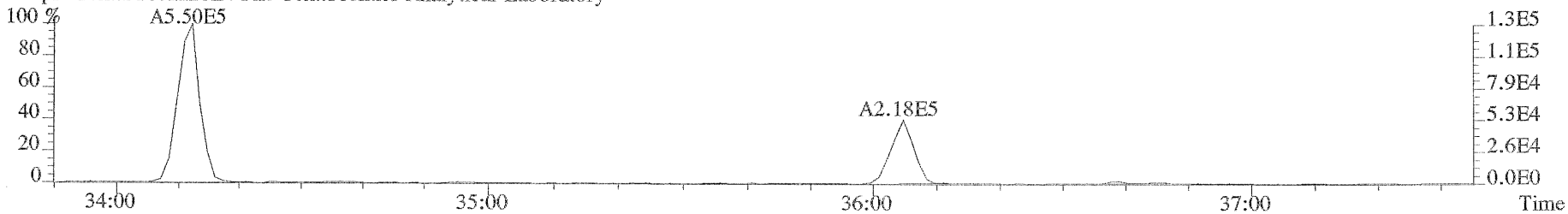
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



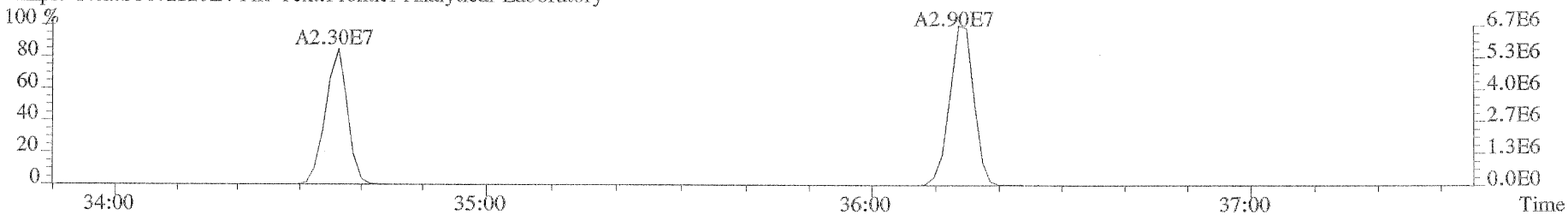
File:22JUL20Z #1-180 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-180 Acq:22-JUL-2020 11:57:34 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:ST072220Z4 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-180 Acq:22-JUL-2020 11:57:34 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:ST072220Z4 File Text:Frontier Analytical Laboratory



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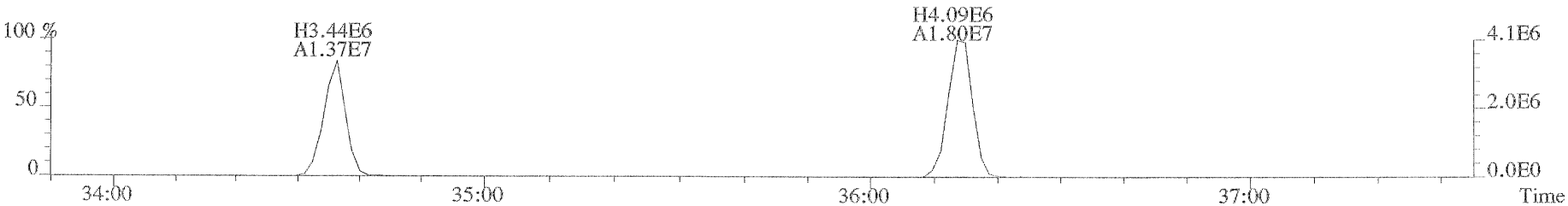
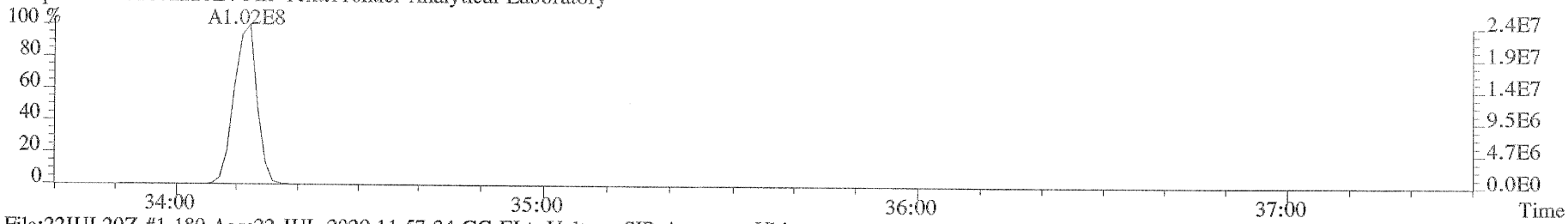
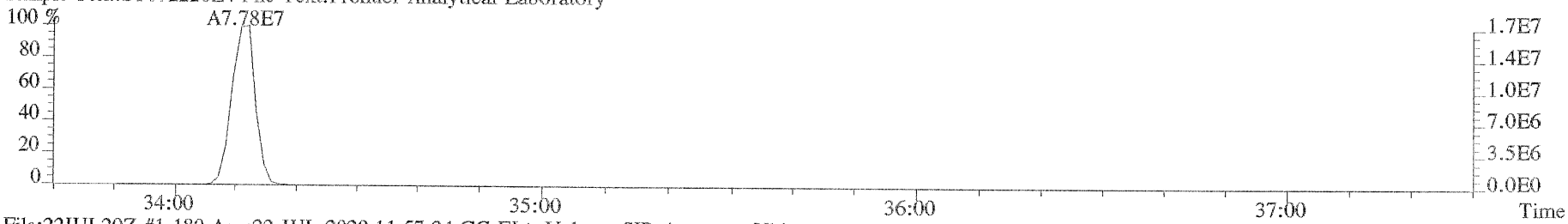
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



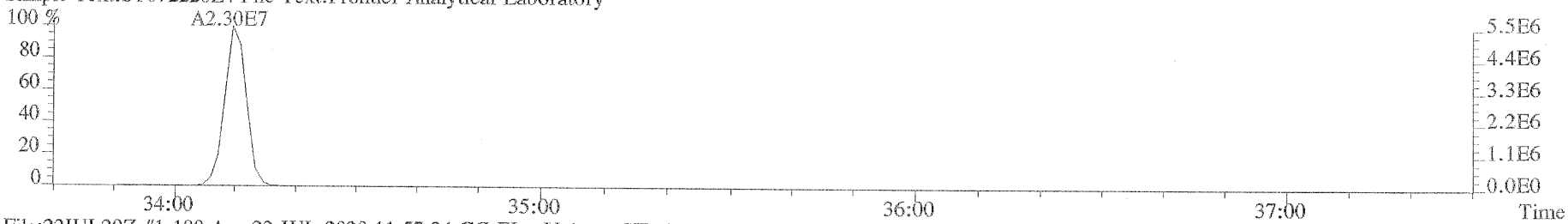
File:22JUL20Z #1-180 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



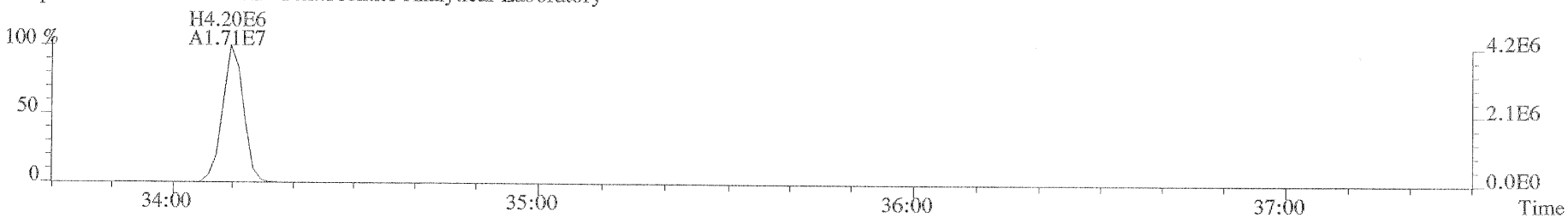
File:22JUL20Z #1-180 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



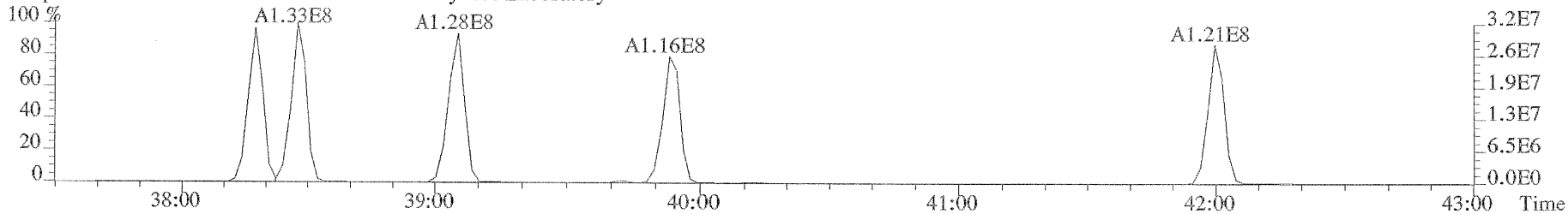
File:22JUL20Z #1-180 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



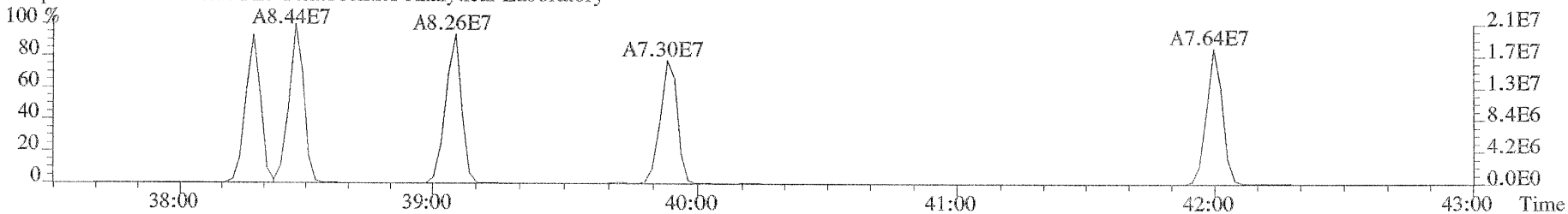
File:22JUL20Z #1-180 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



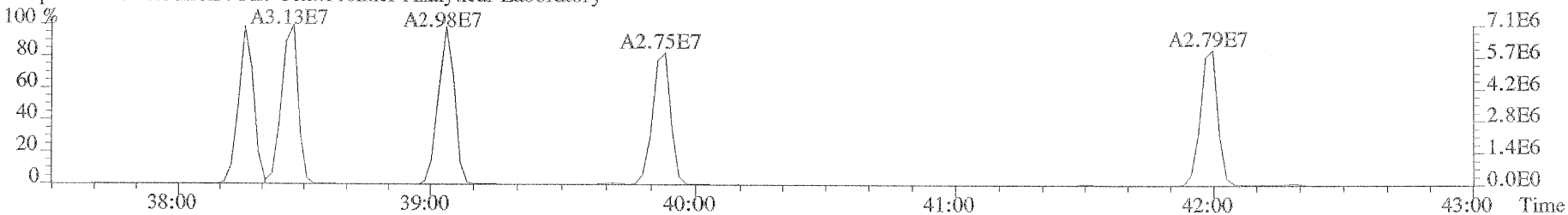
File:22JUL20Z #1-411 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-411 Acq:22-JUL-2020 11:57:34 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:ST072220Z4 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-411 Acq:22-JUL-2020 11:57:34 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:ST072220Z4 File Text:Frontier Analytical Laboratory



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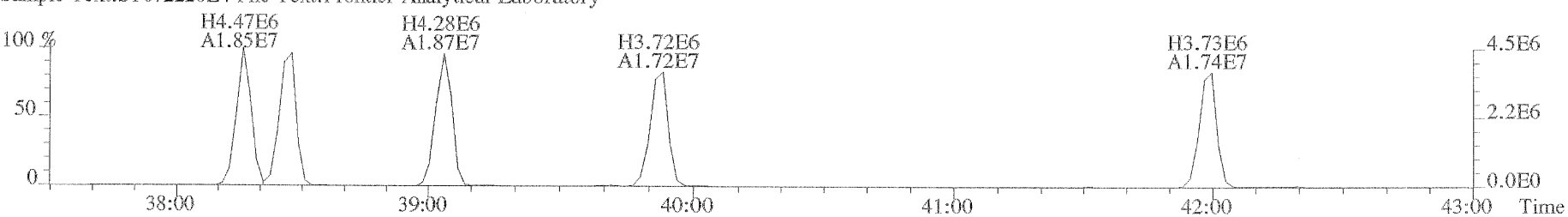
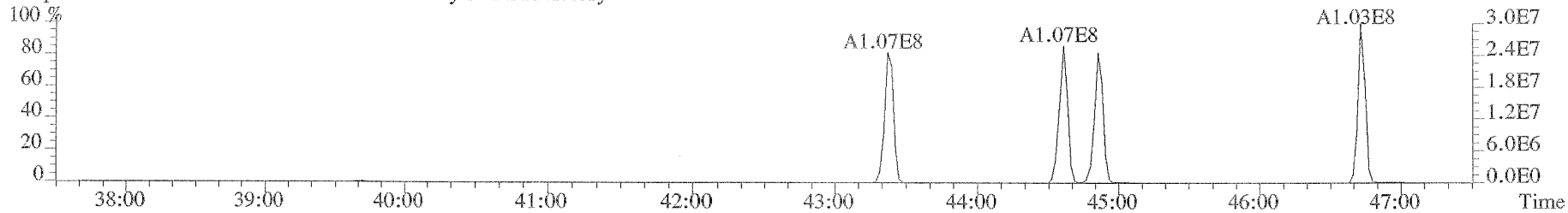
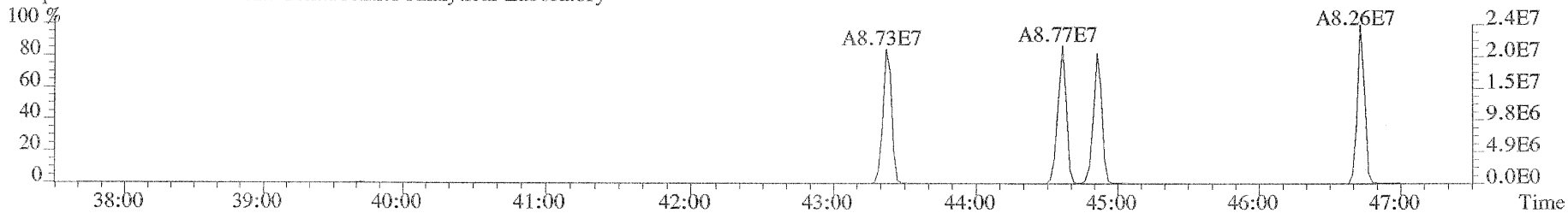
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



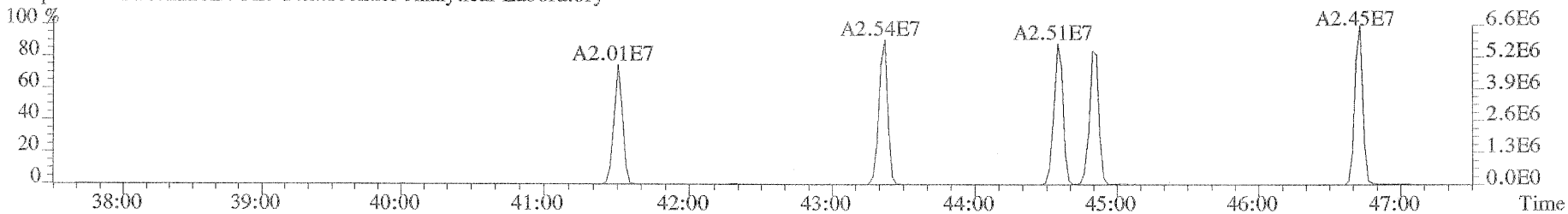
File:22JUL20Z #1-411 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



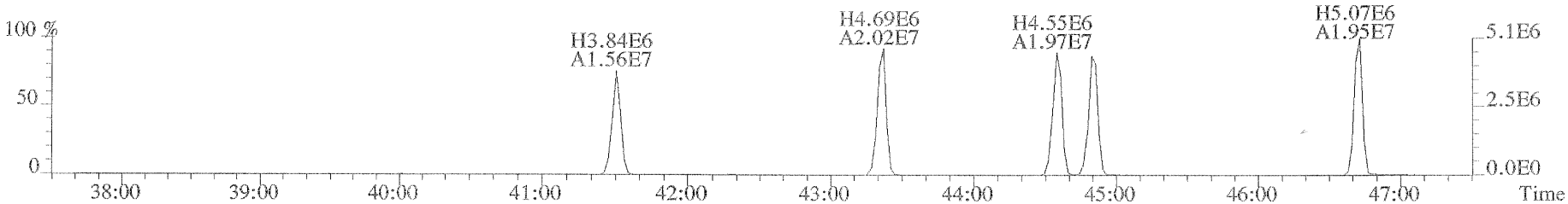
File:22JUL20Z #1-411 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-411 Acq:22-JUL-2020 11:57:34 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:ST072220Z4 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-411 Acq:22-JUL-2020 11:57:34 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:ST072220Z4 File Text:Frontier Analytical Laboratory



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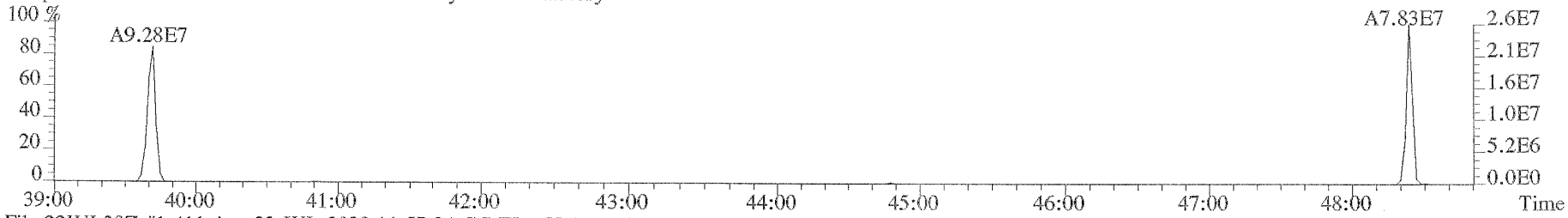
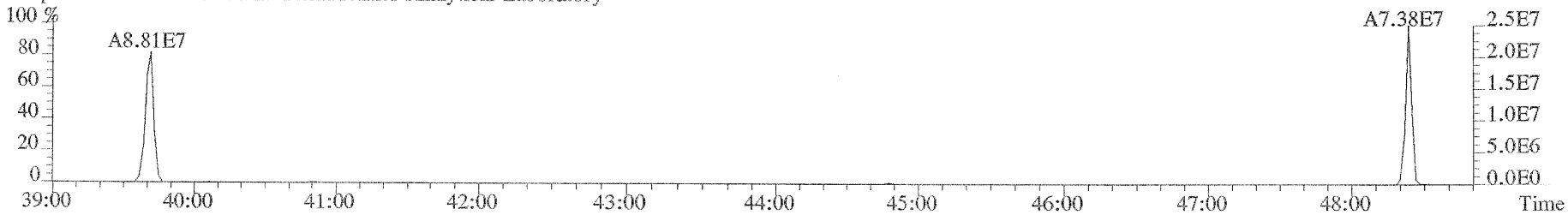
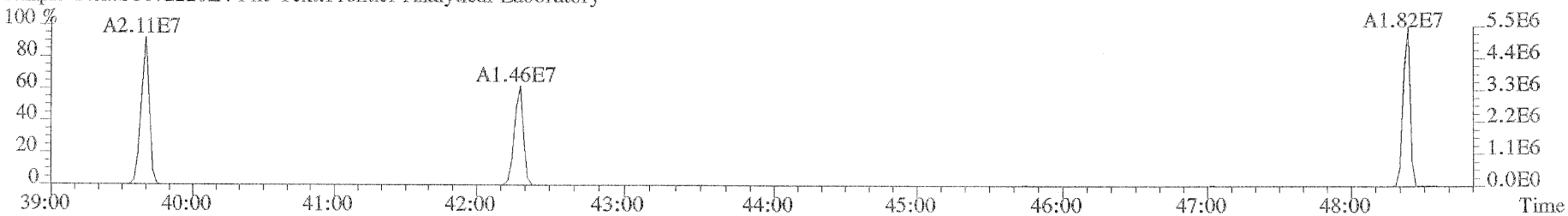
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



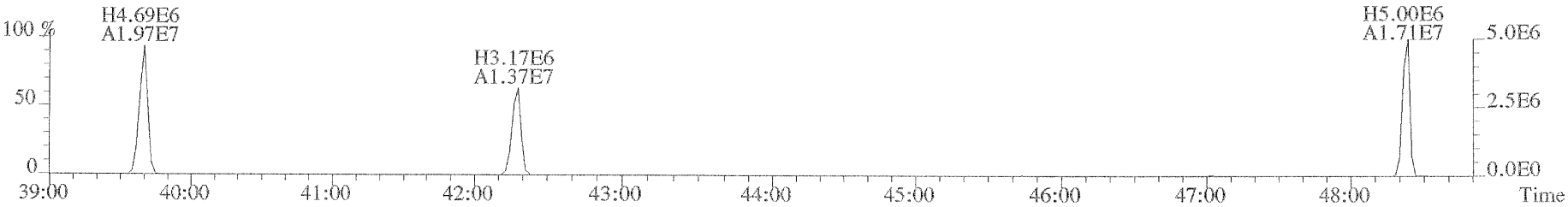
File:22JUL20Z #1-411 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



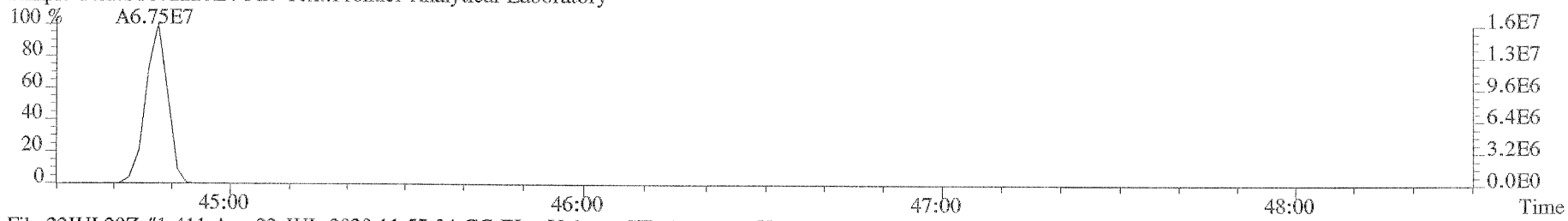
File:22JUL20Z #1-411 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



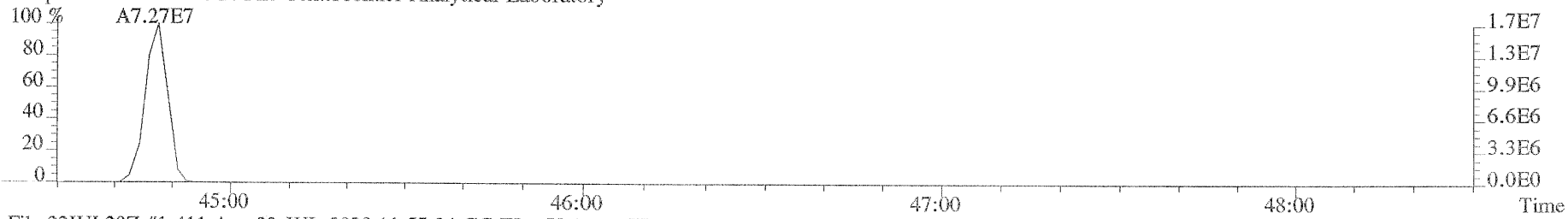
File:22JUL20Z #1-411 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



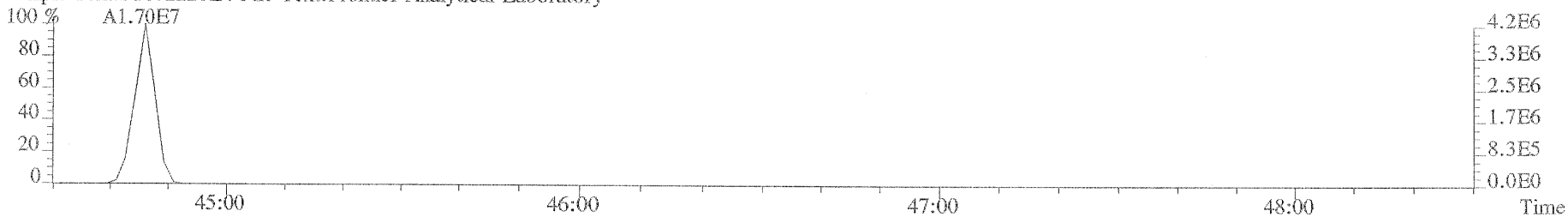
File:22JUL20Z #1-411 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



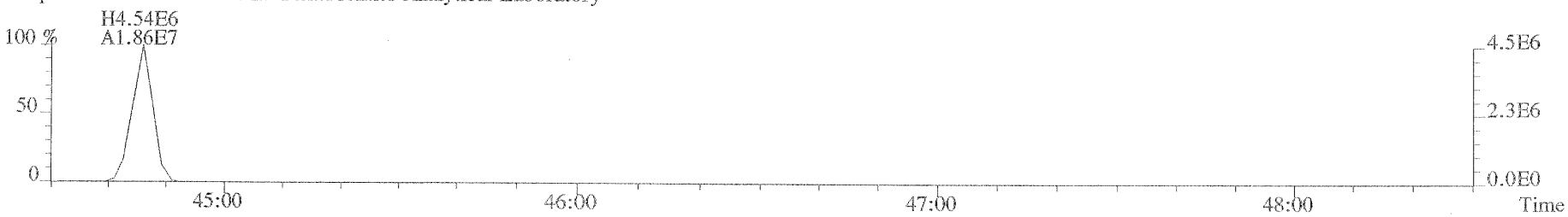
File:22JUL20Z #1-411 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



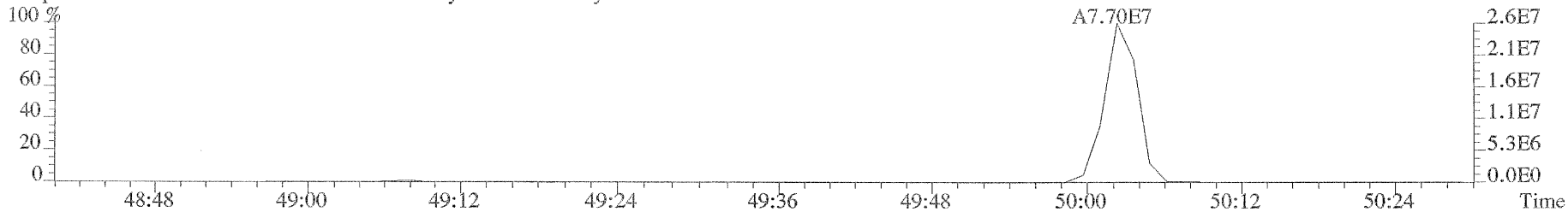
File:22JUL20Z #1-411 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



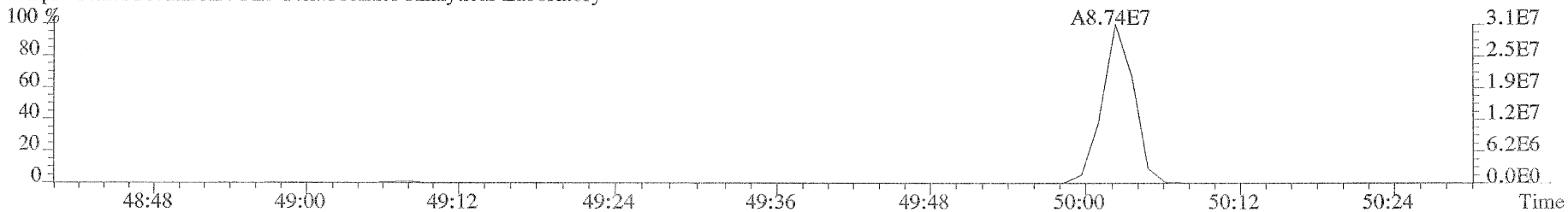
File:22JUL20Z #1-411 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



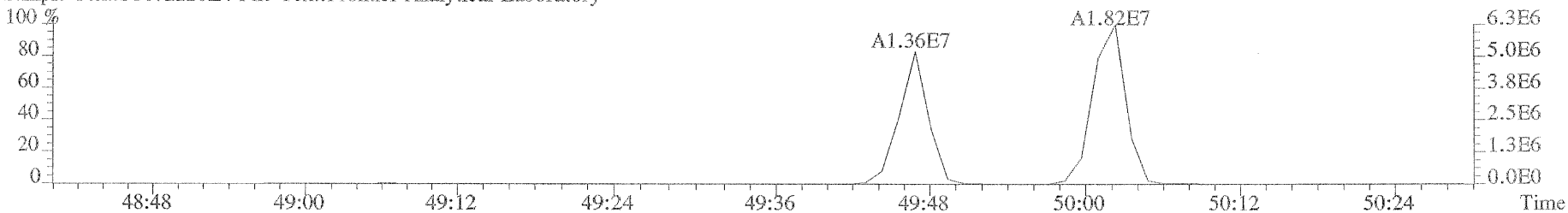
File:22JUL20Z #1-308 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



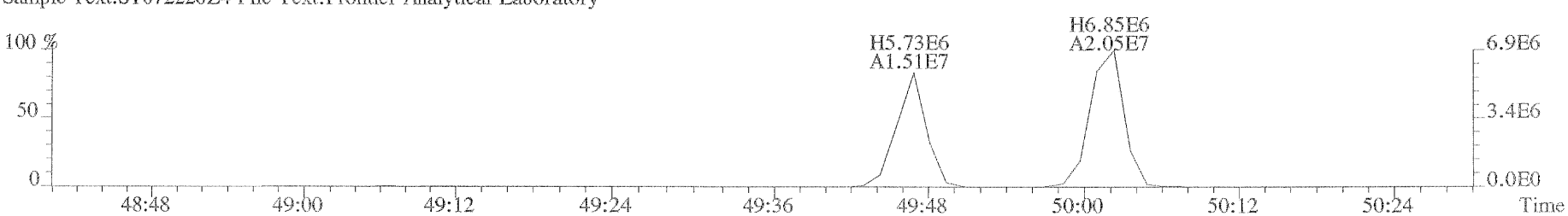
File:22JUL20Z #1-308 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



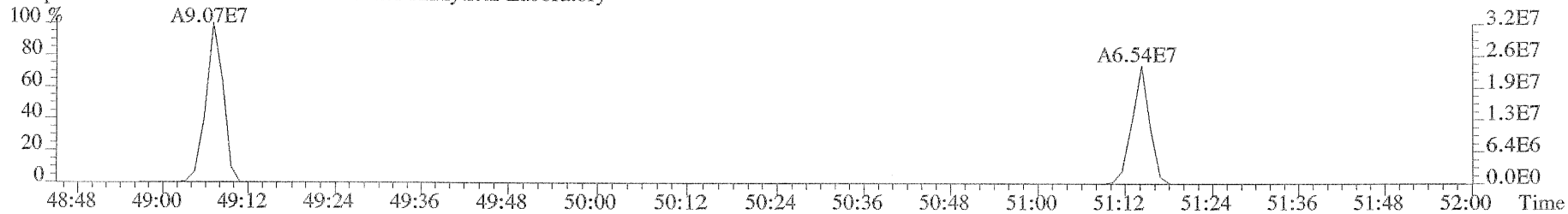
File:22JUL20Z #1-308 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



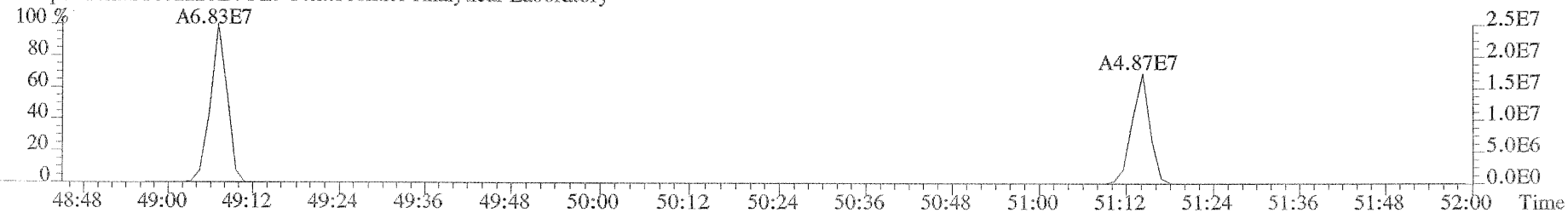
File:22JUL20Z #1-308 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



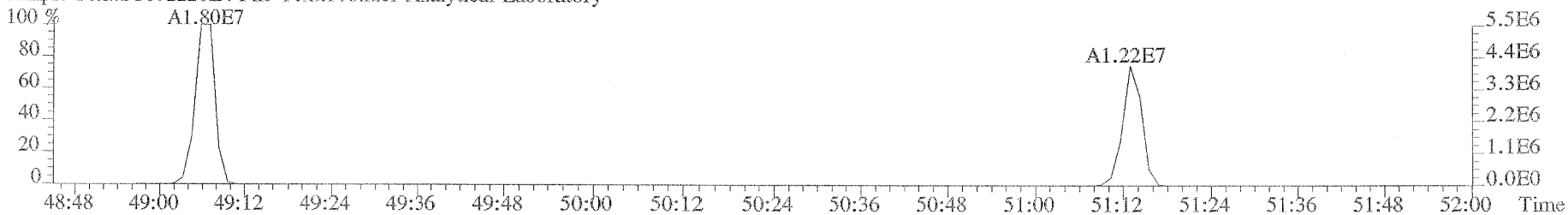
File:22JUL20Z #1-308 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



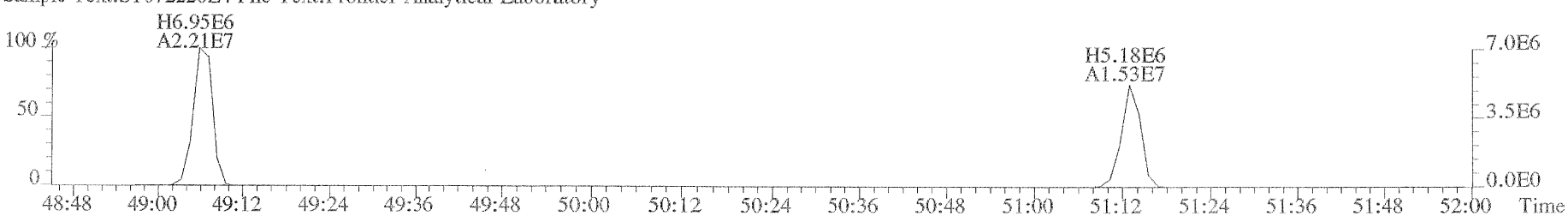
File:22JUL20Z #1-308 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



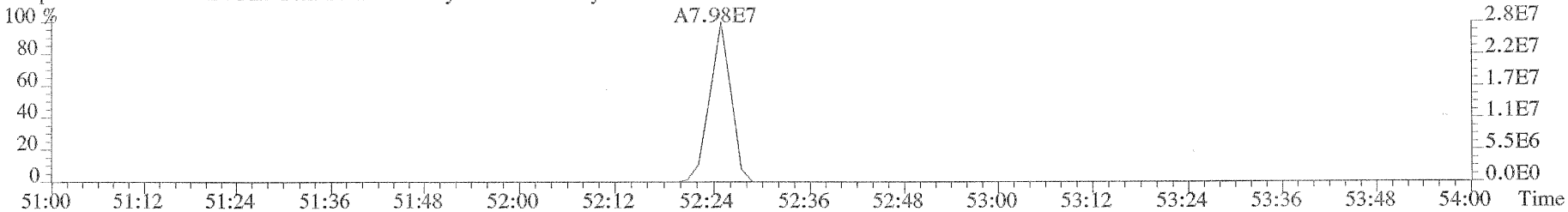
File:22JUL20Z #1-308 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



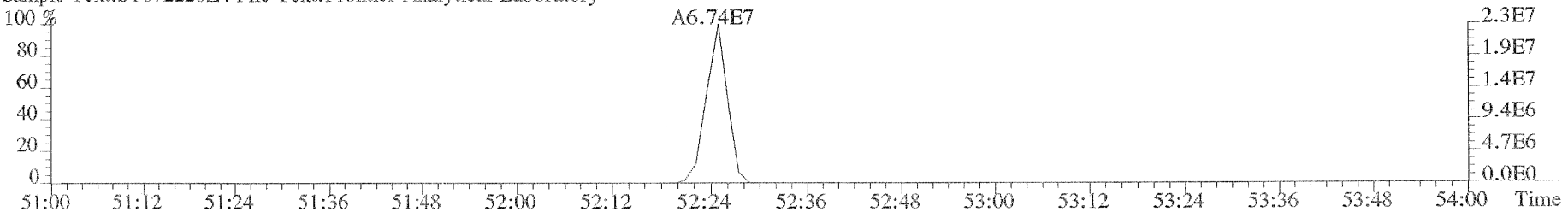
File:22JUL20Z #1-308 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



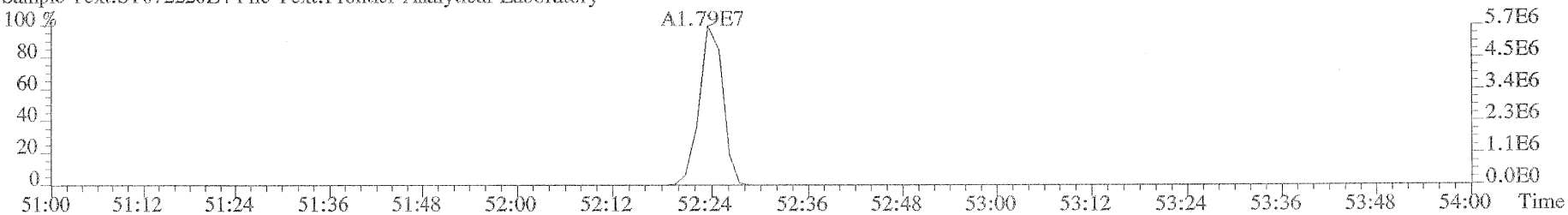
File:22JUL20Z #1-308 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



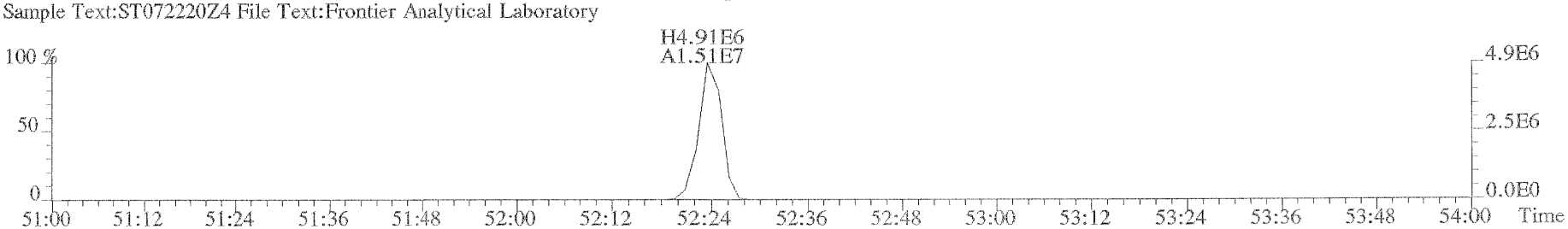
File:22JUL20Z #1-308 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



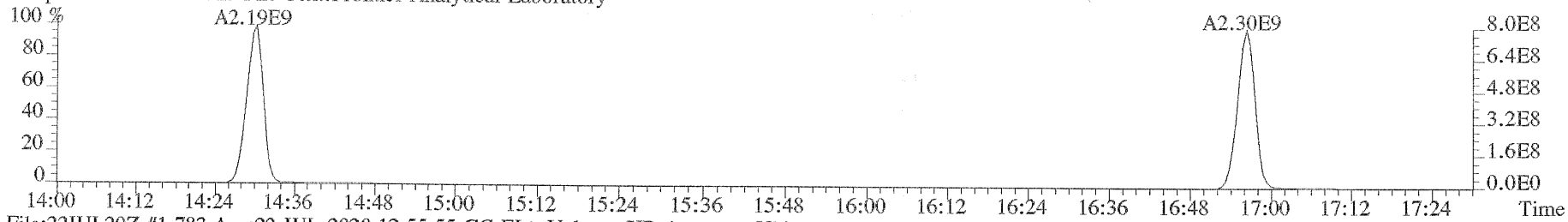
File:22JUL20Z #1-308 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



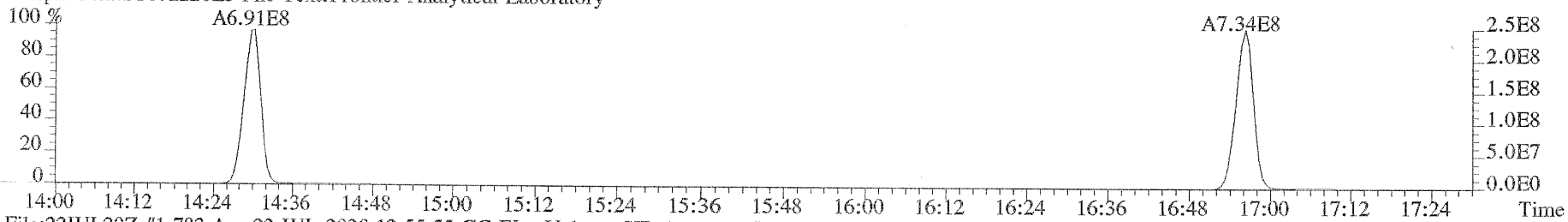
File:22JUL20Z #1-308 Acq:22-JUL-2020 11:57:34 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z4 File Text:Frontier Analytical Laboratory



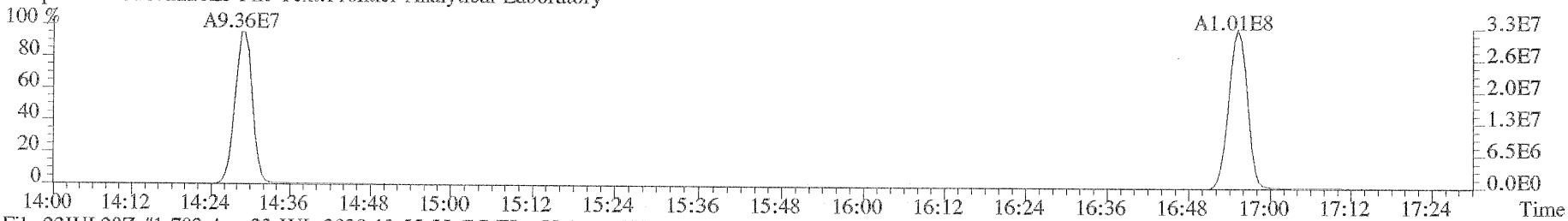
File:22JUL20Z #1-783 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



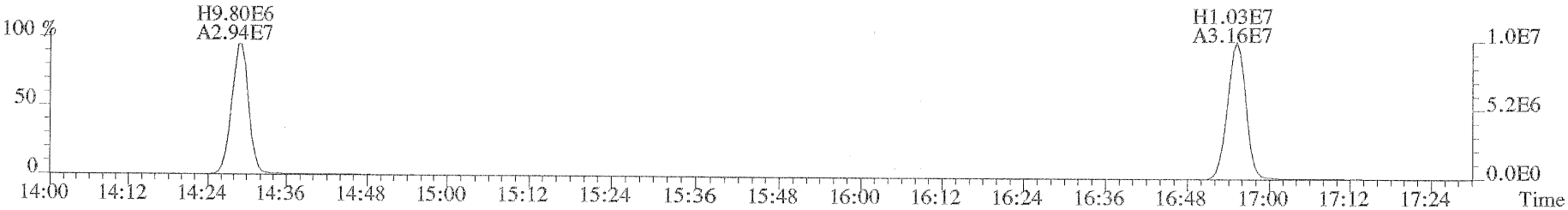
File:22JUL20Z #1-783 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



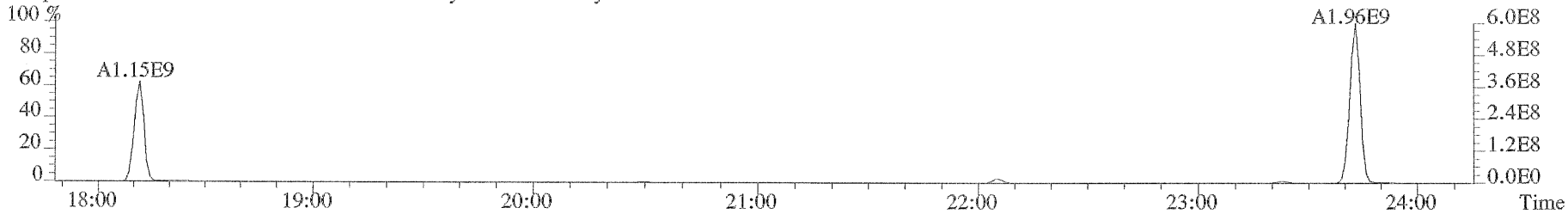
File:22JUL20Z #1-783 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



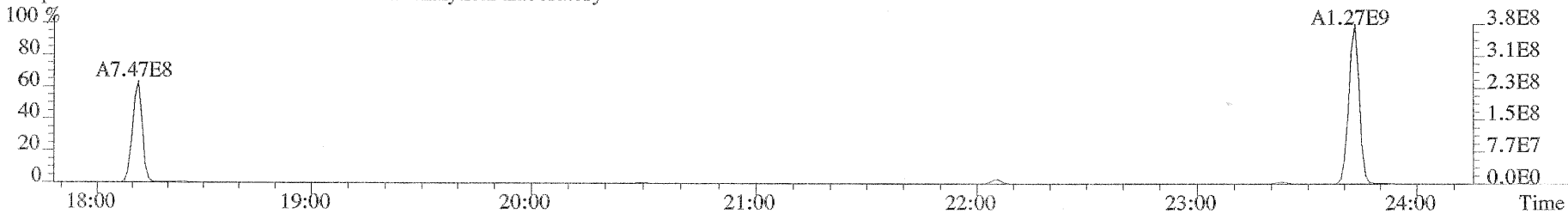
File:22JUL20Z #1-783 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



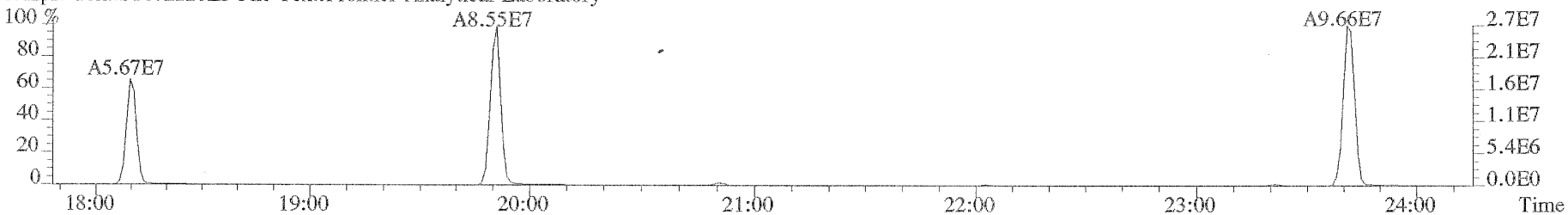
File:22JUL20Z #1-467 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



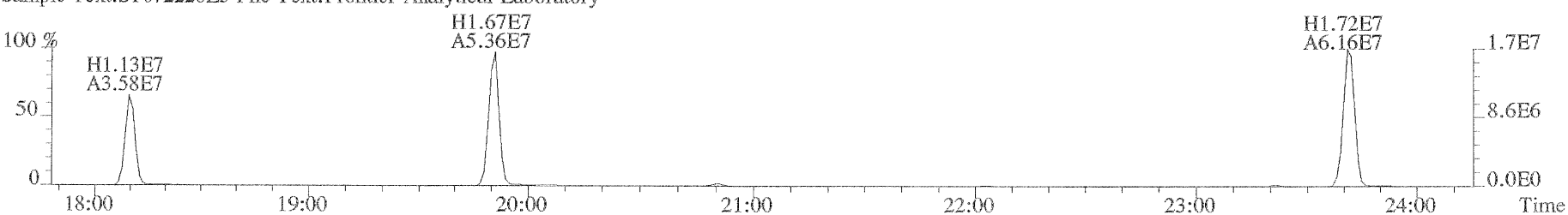
File:22JUL20Z #1-467 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



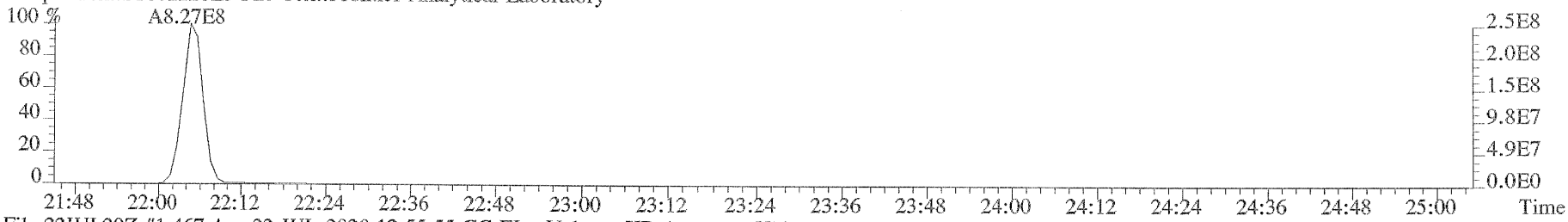
File:22JUL20Z #1-467 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



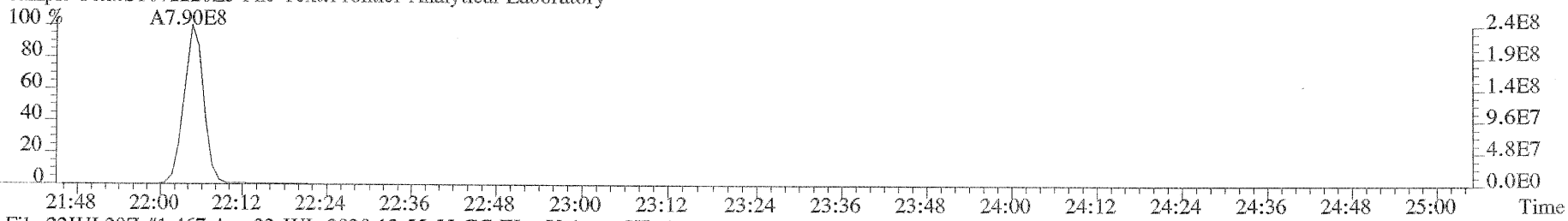
File:22JUL20Z #1-467 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



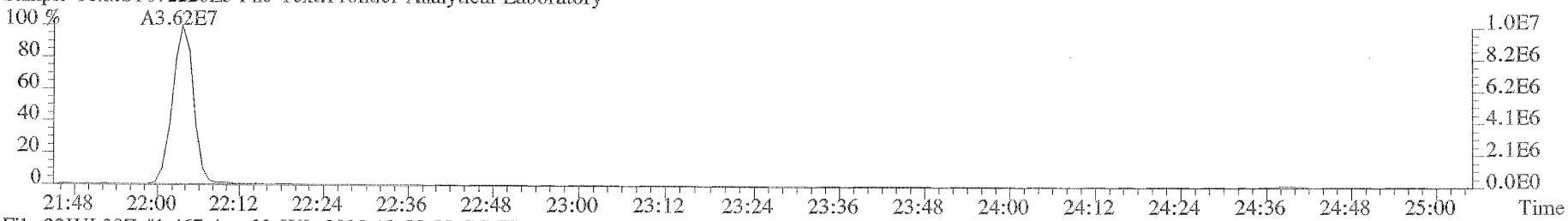
File:22JUL20Z #1-467 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



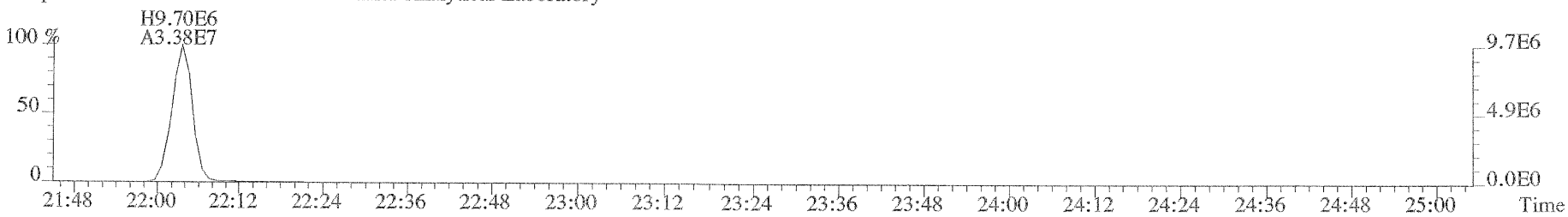
File:22JUL20Z #1-467 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



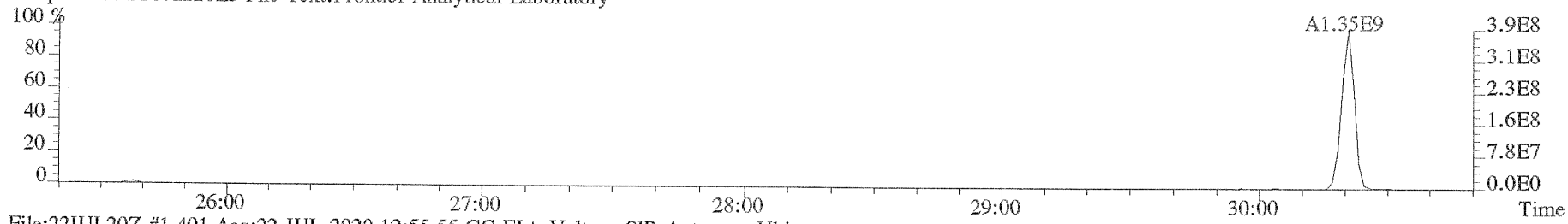
File:22JUL20Z #1-467 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



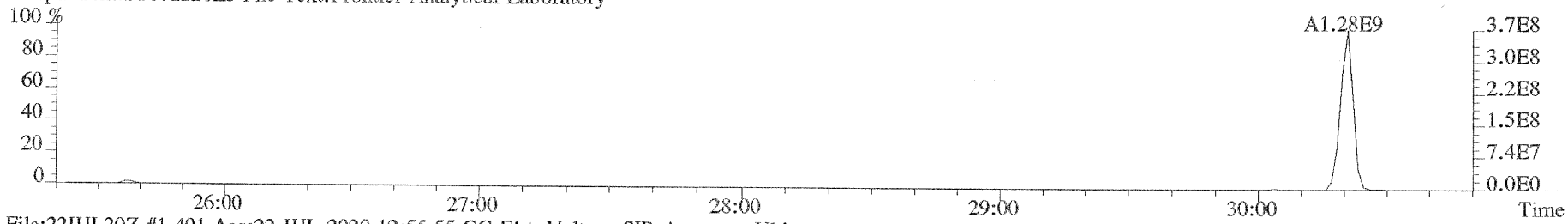
File:22JUL20Z #1-467 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



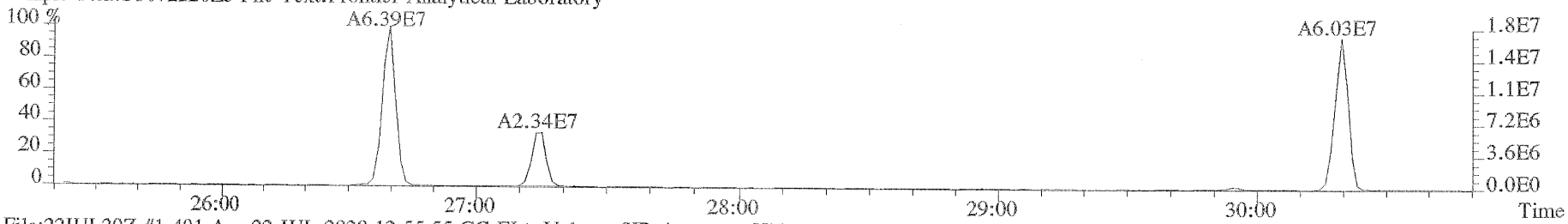
File:22JUL20Z #1-401 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



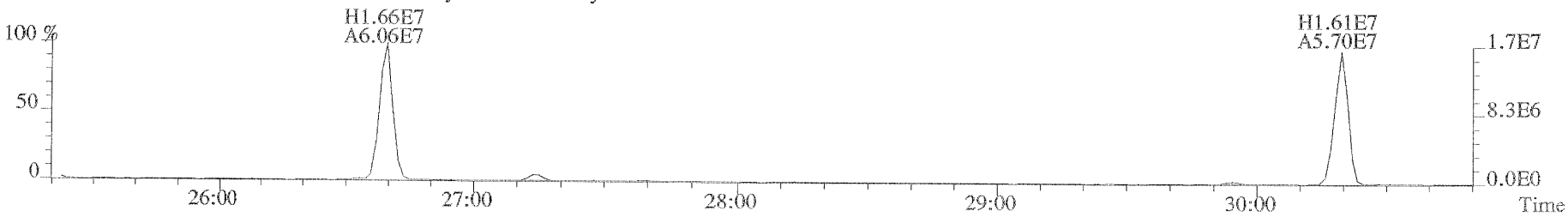
File:22JUL20Z #1-401 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



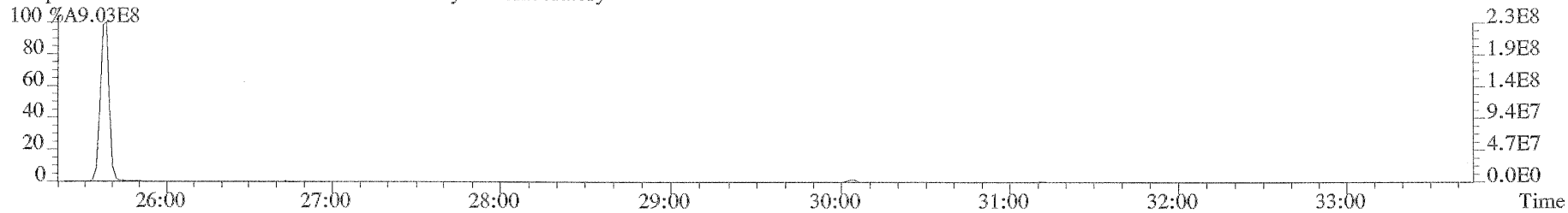
File:22JUL20Z #1-401 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



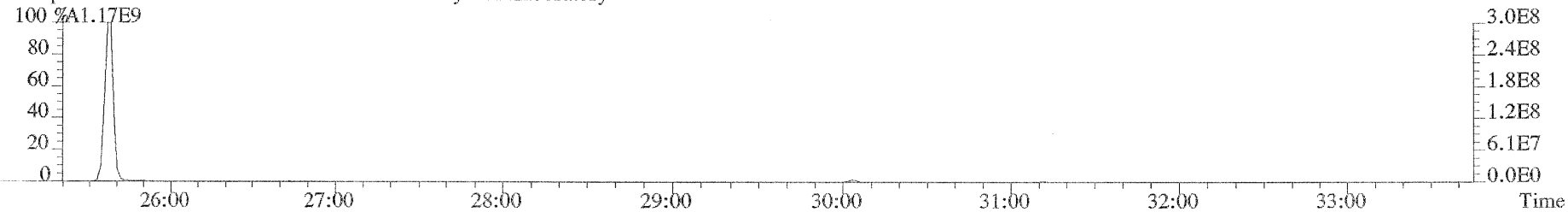
File:22JUL20Z #1-401 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



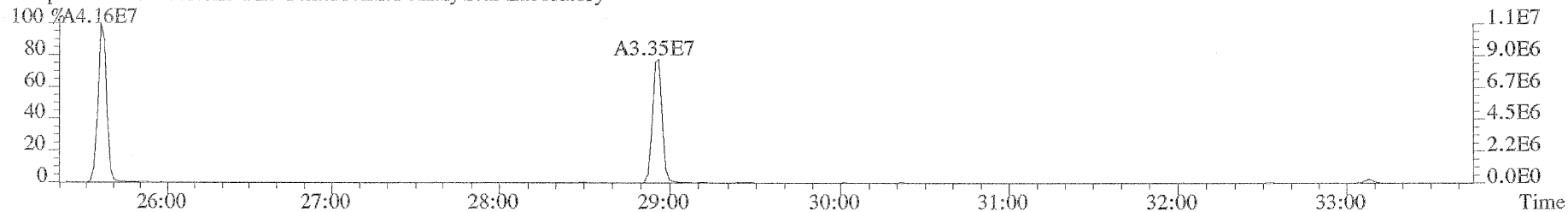
File:22JUL20Z #1-401 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



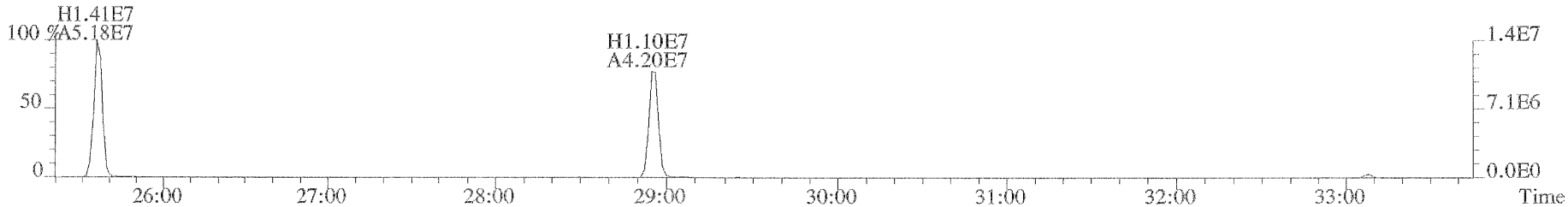
File:22JUL20Z #1-401 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



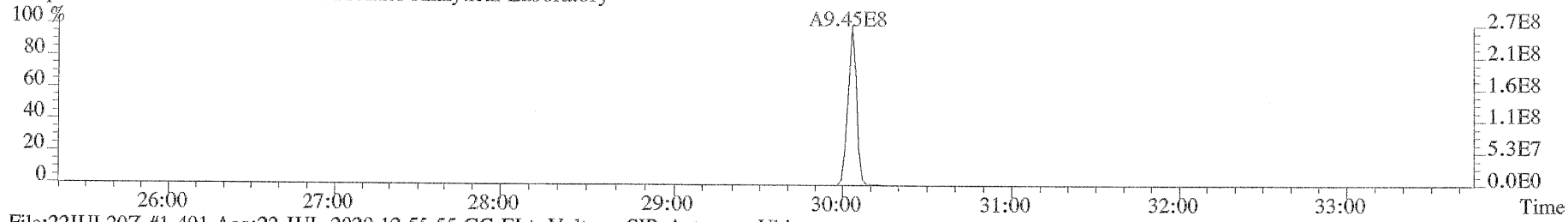
File:22JUL20Z #1-401 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



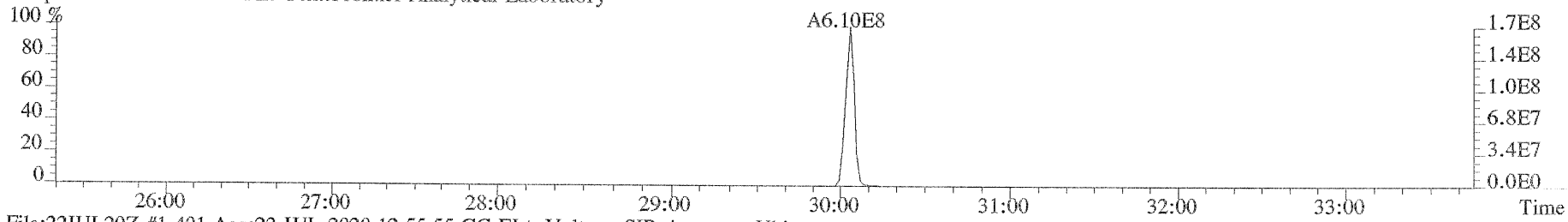
File:22JUL20Z #1-401 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-401 Acq:22-JUL-2020 12:55:55 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:ST072220Z5 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-401 Acq:22-JUL-2020 12:55:55 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:ST072220Z5 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-401 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
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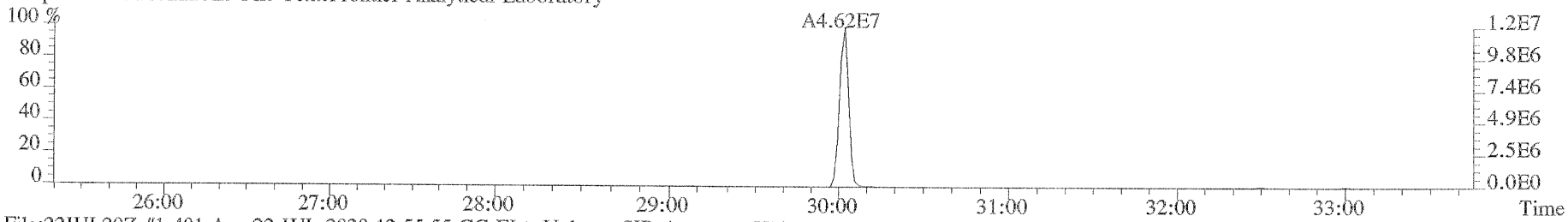
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



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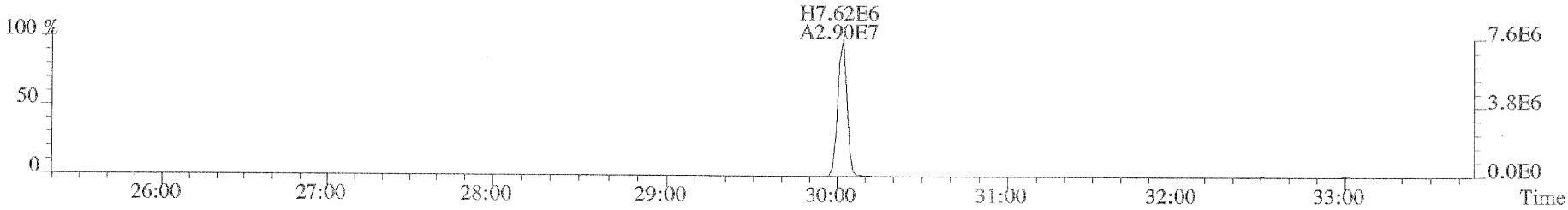
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



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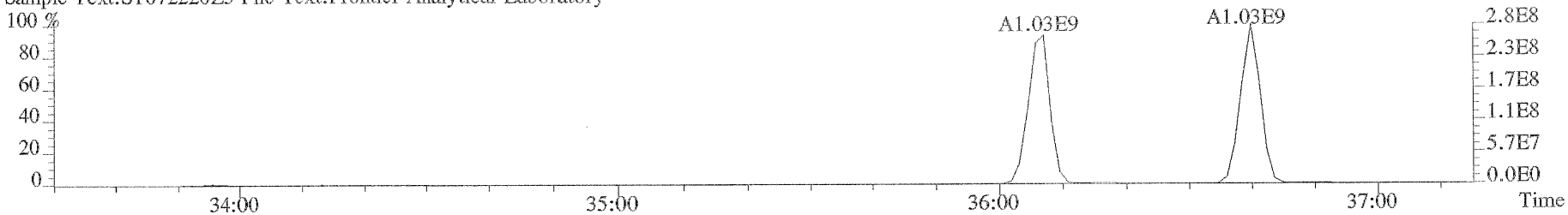
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



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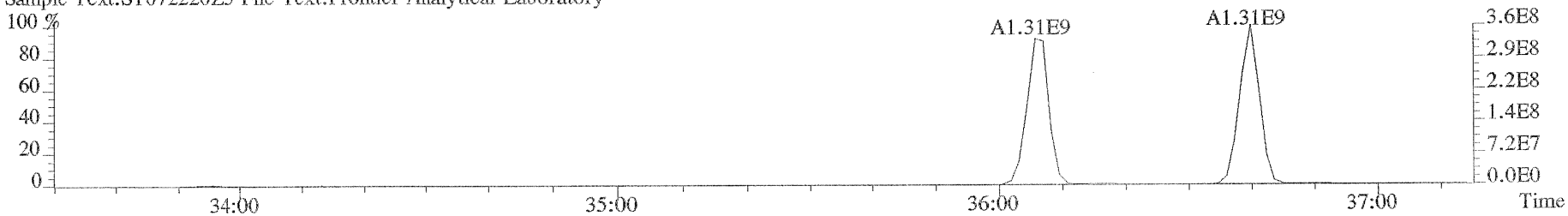
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



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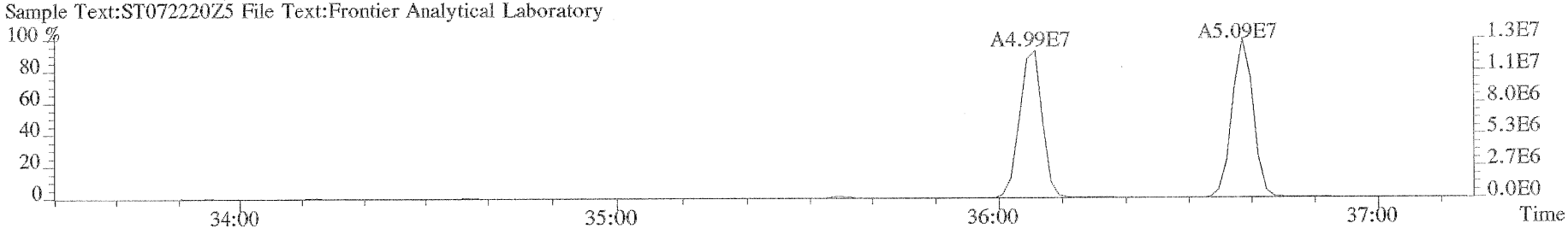
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



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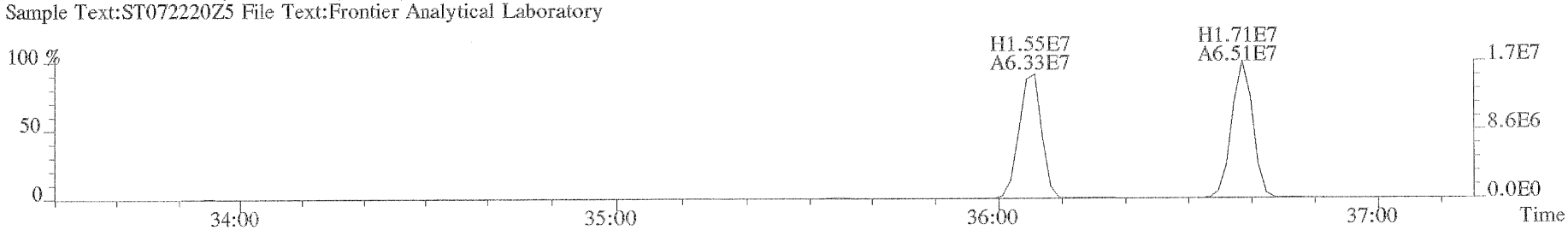
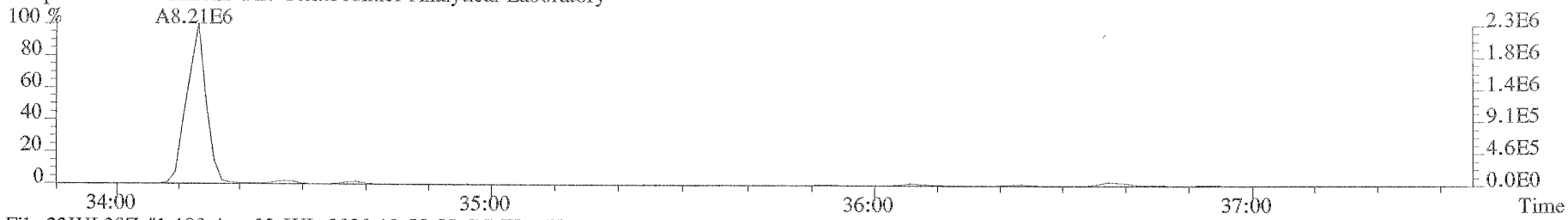
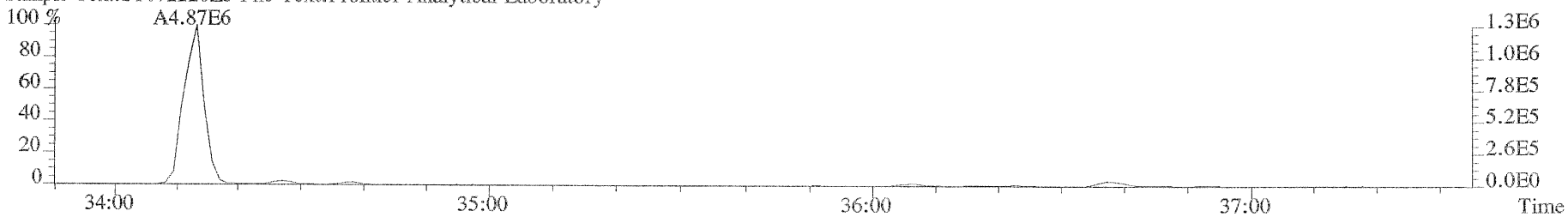
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



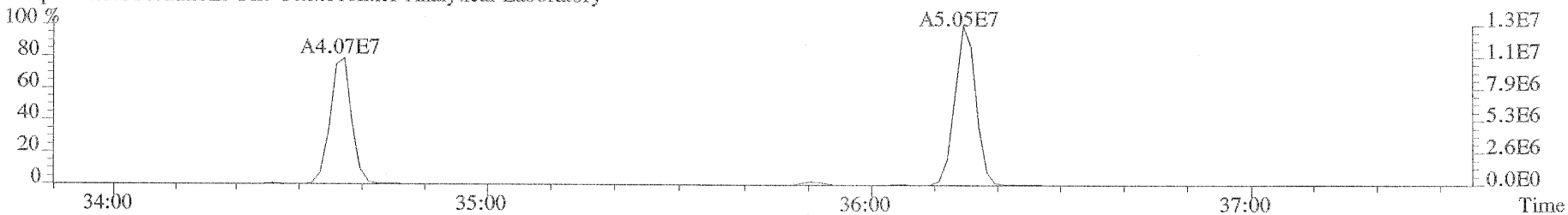
File:22JUL20Z #1-180 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



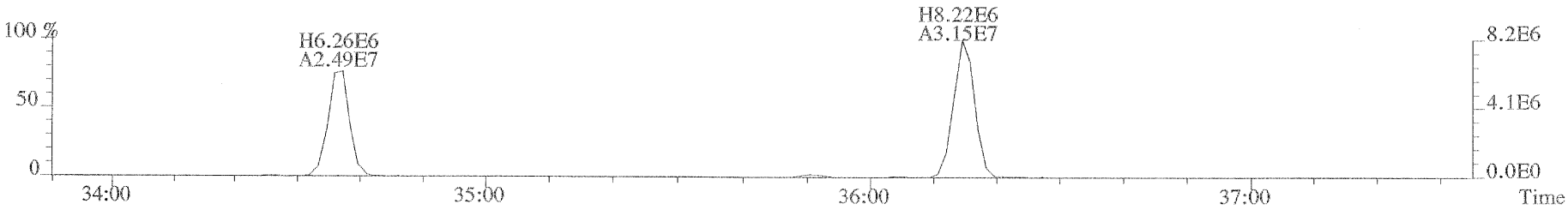
File:22JUL20Z #1-180 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



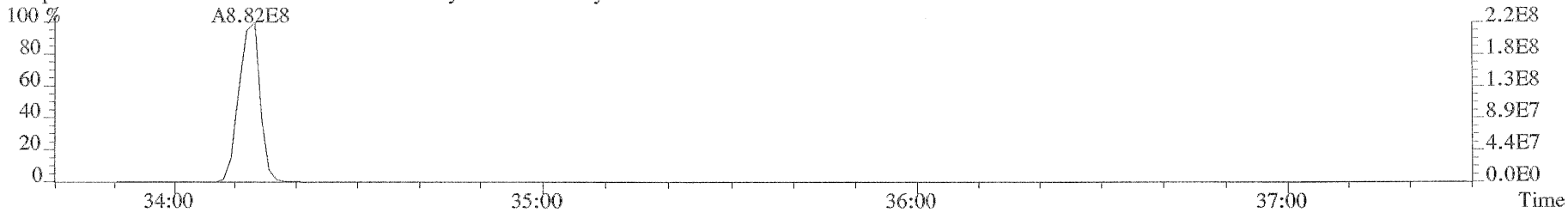
File:22JUL20Z #1-180 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



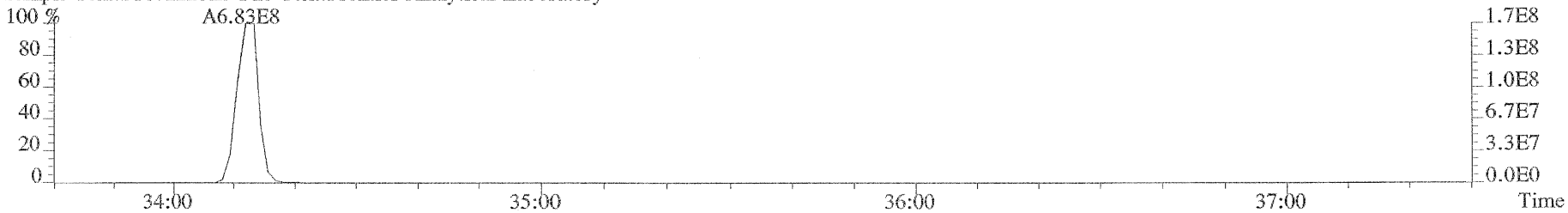
File:22JUL20Z #1-180 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



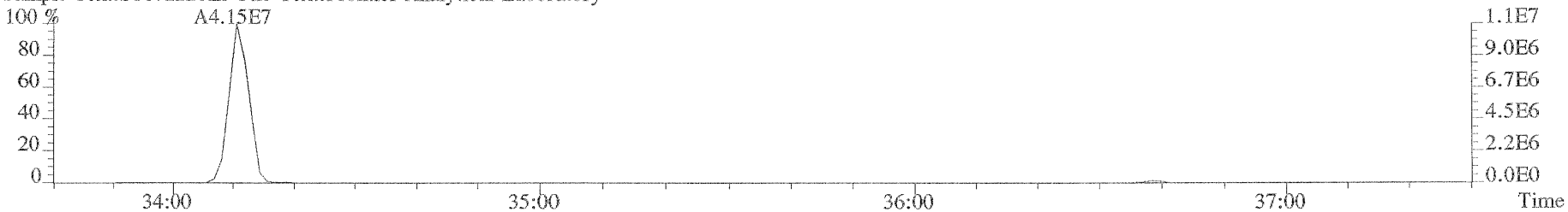
File:22JUL20Z #1-180 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



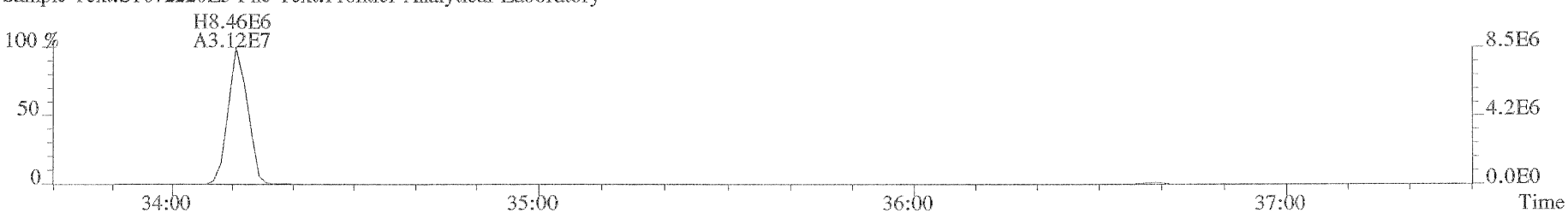
File:22JUL20Z #1-180 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



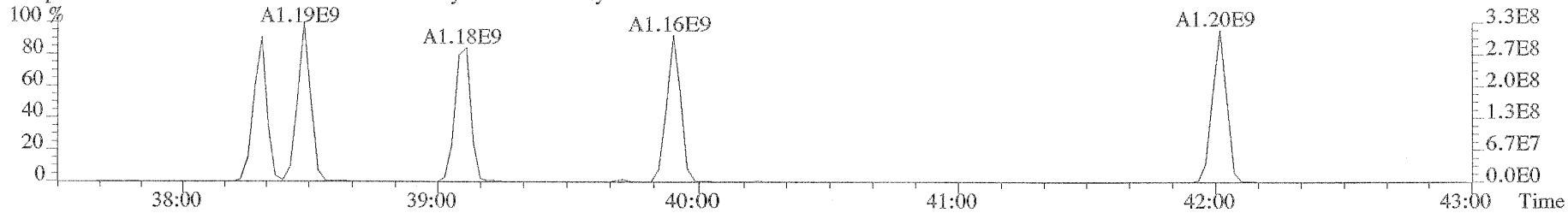
File:22JUL20Z #1-180 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



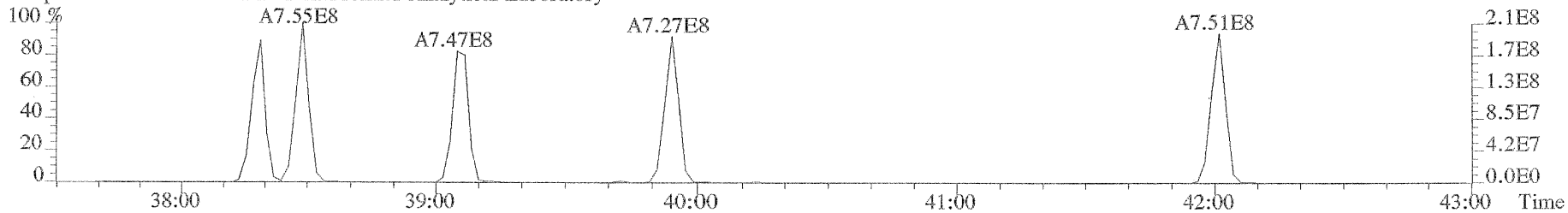
File:22JUL20Z #1-180 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



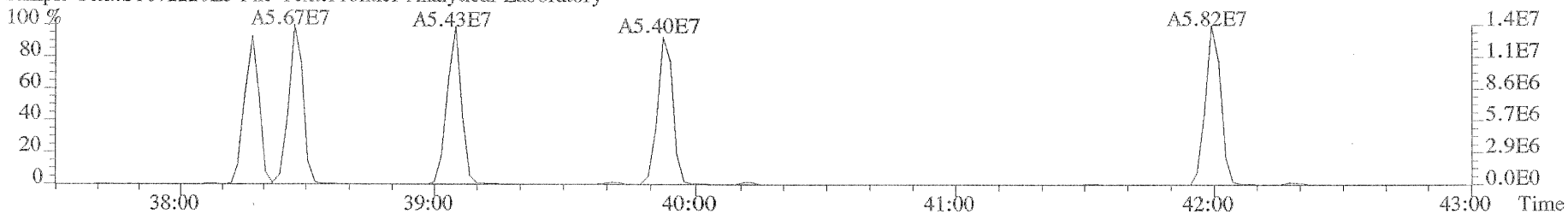
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



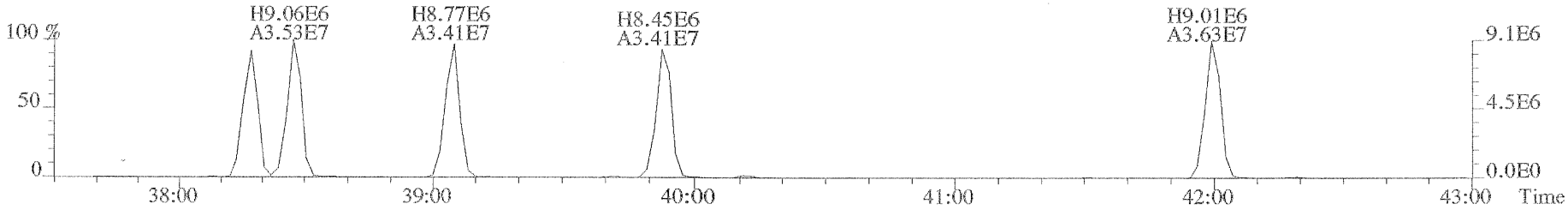
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



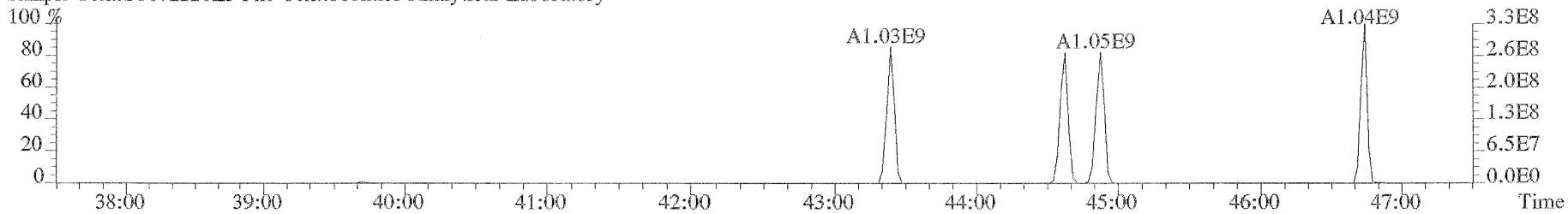
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



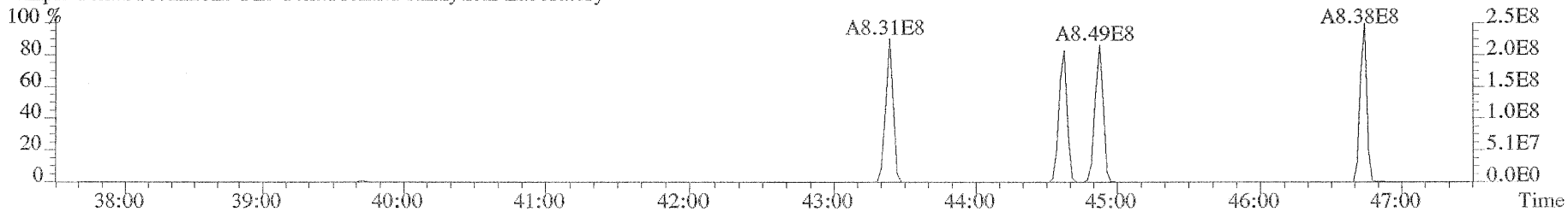
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



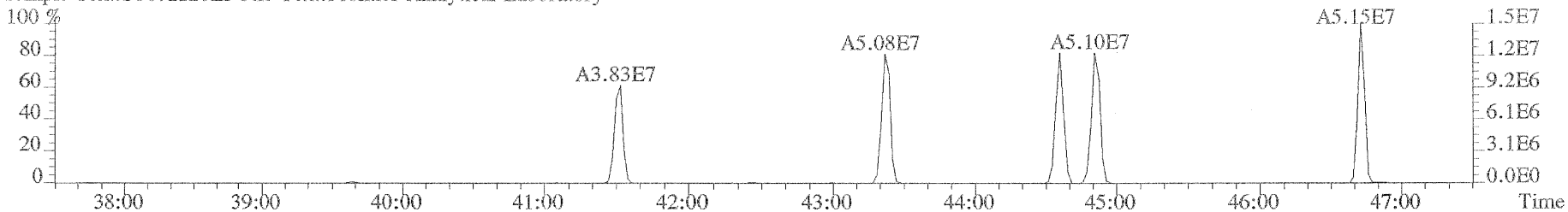
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



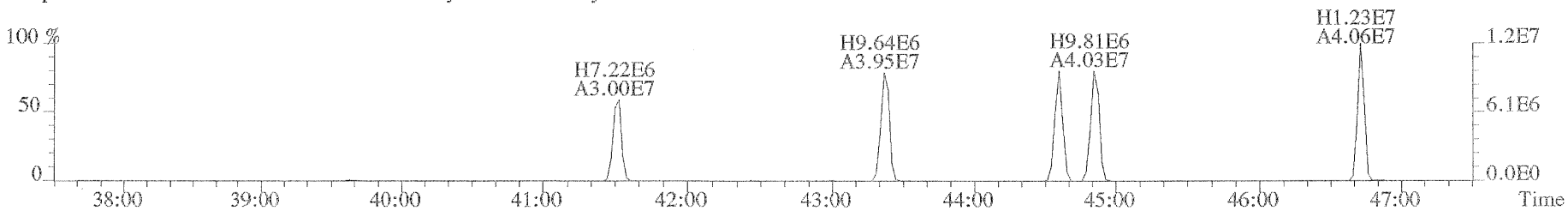
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



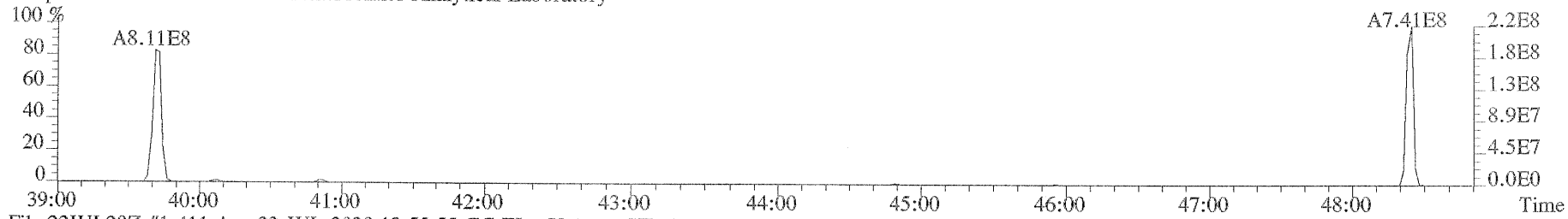
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



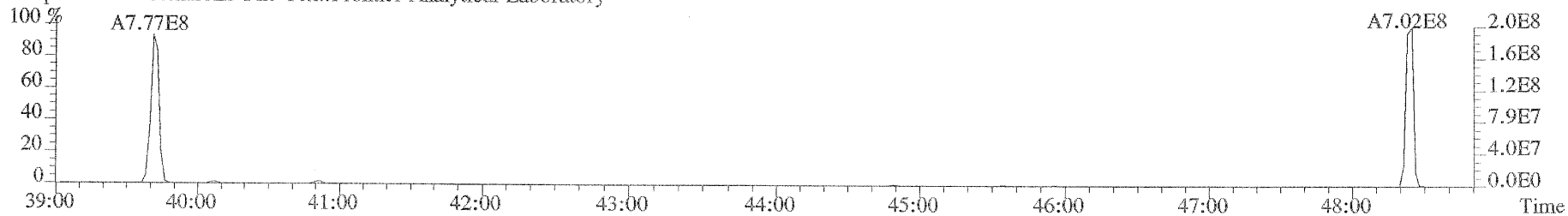
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



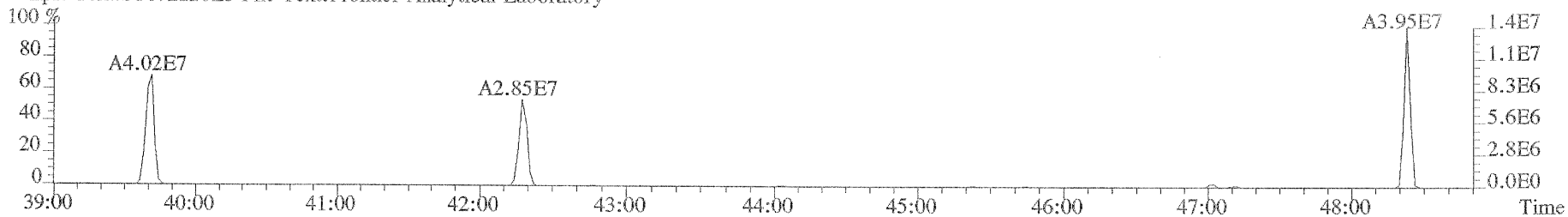
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



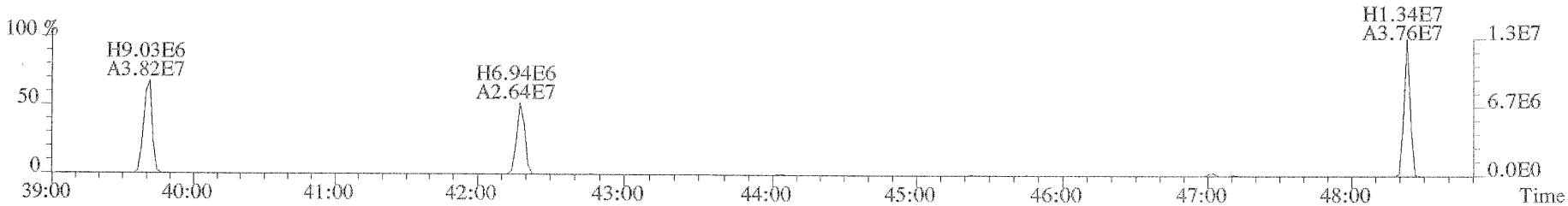
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



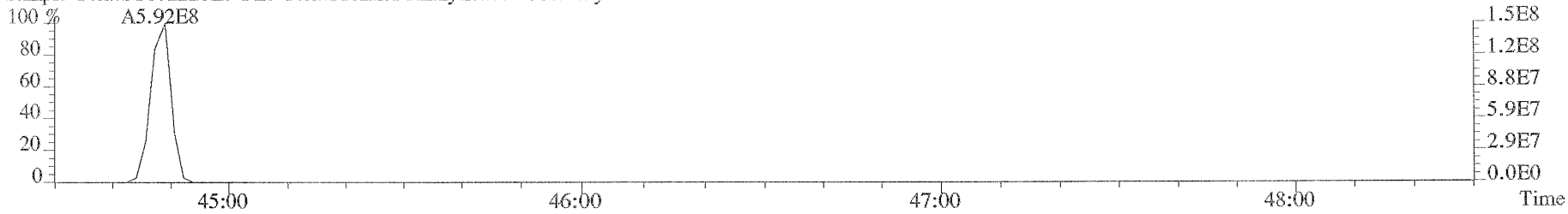
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



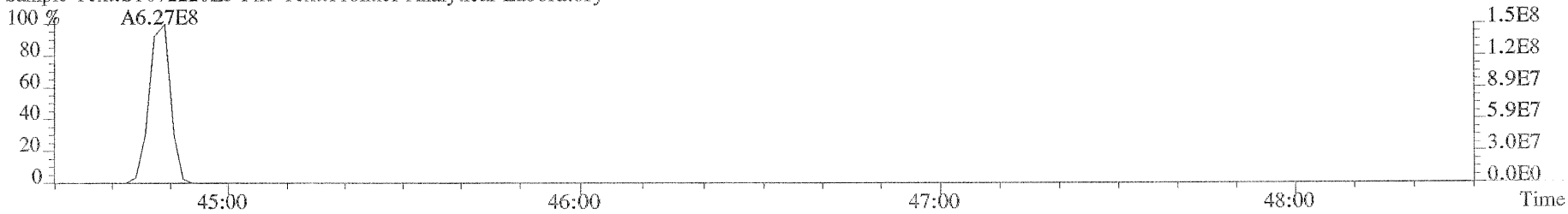
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



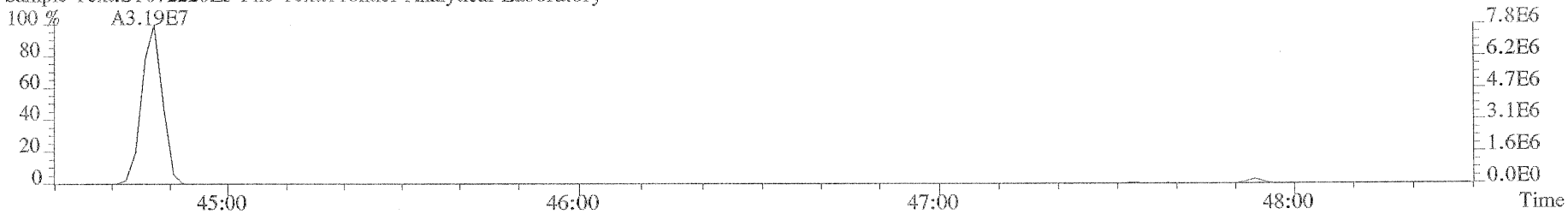
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



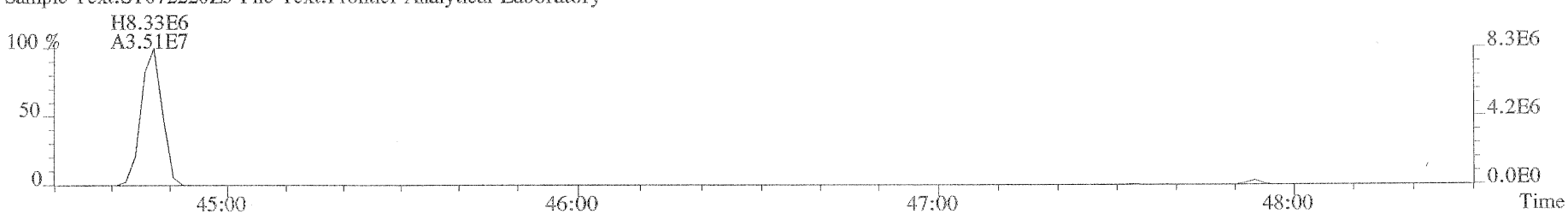
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



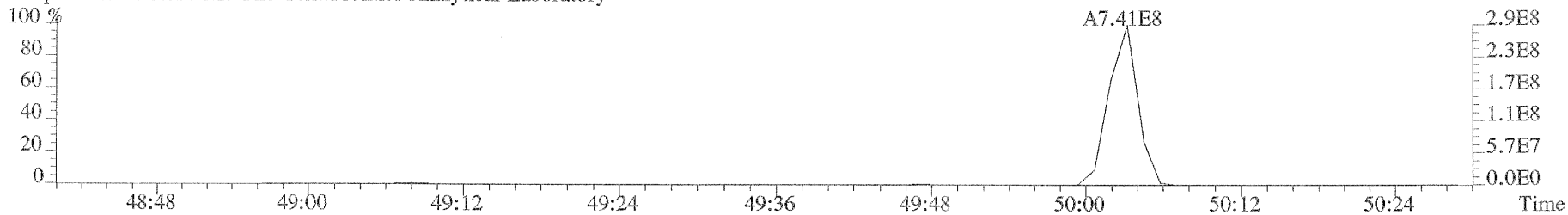
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



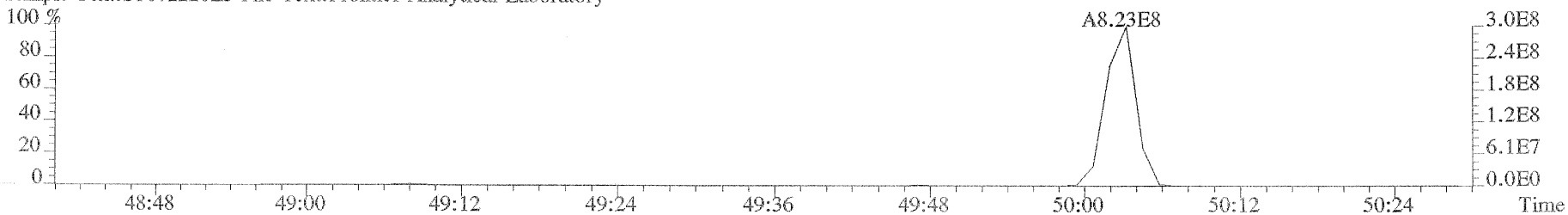
File:22JUL20Z #1-411 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



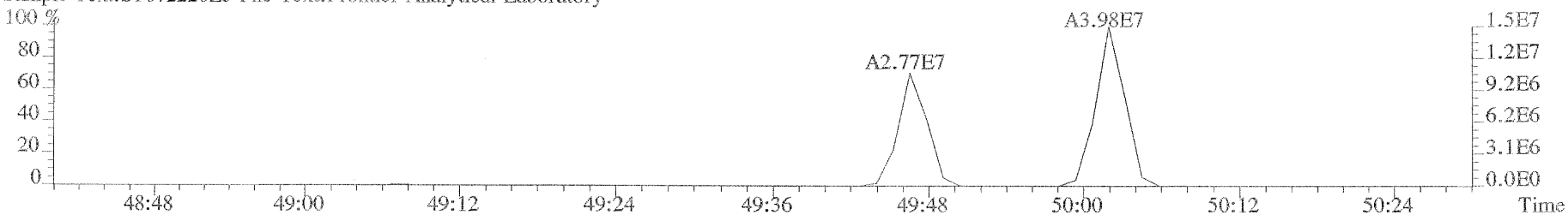
File:22JUL20Z #1-308 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



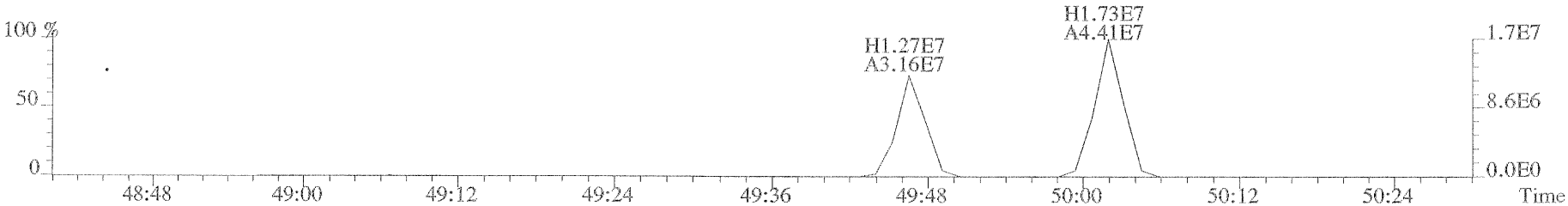
File:22JUL20Z #1-308 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



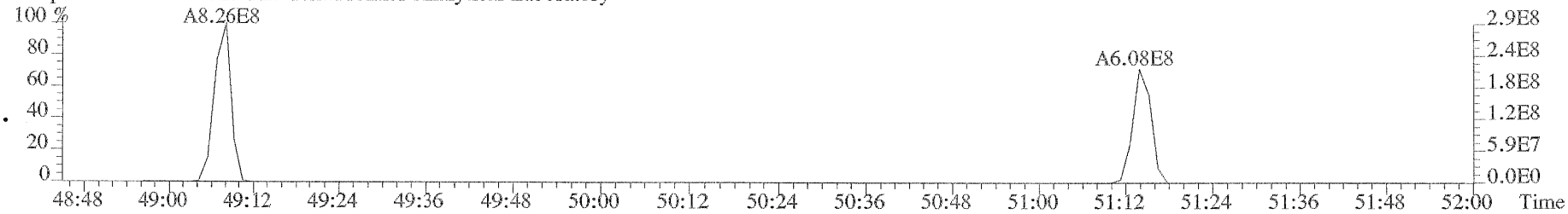
File:22JUL20Z #1-308 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



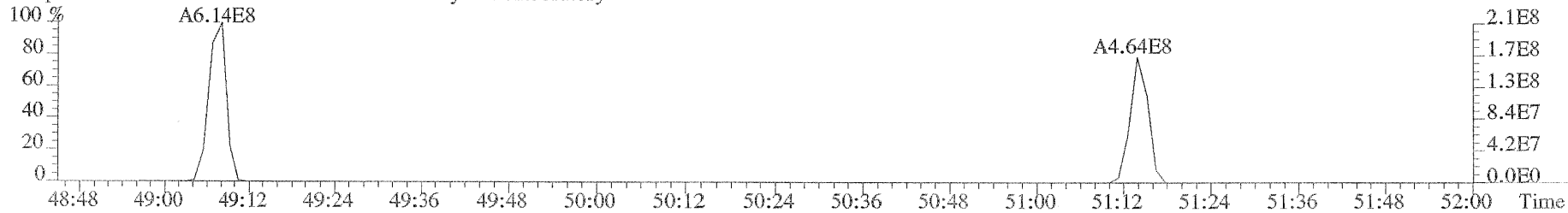
File:22JUL20Z #1-308 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



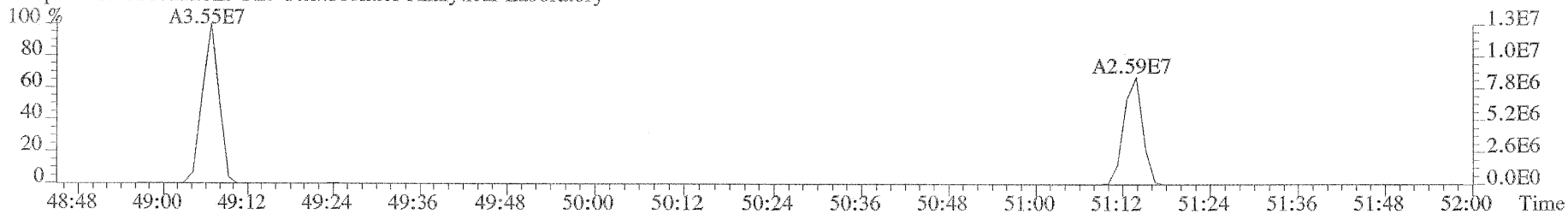
File:22JUL20Z #1-308 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



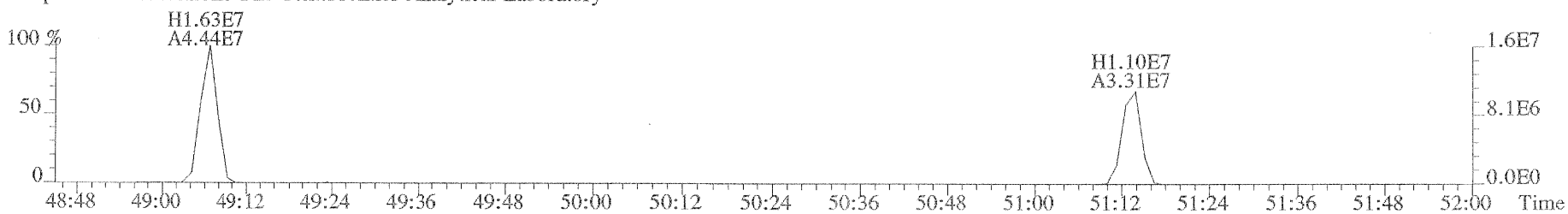
File:22JUL20Z #1-308 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



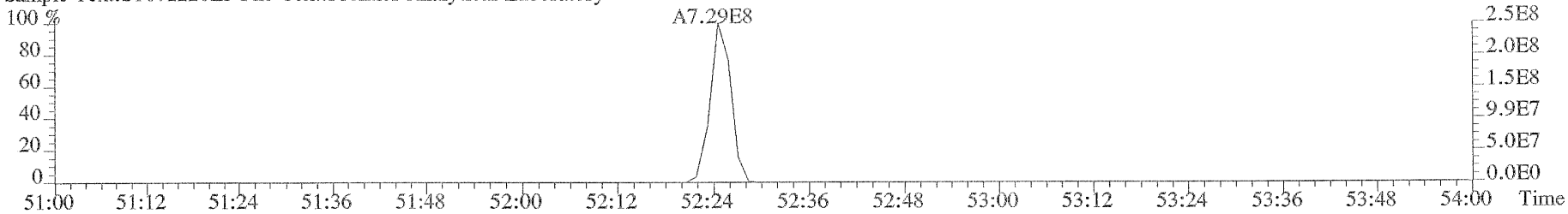
File:22JUL20Z #1-308 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



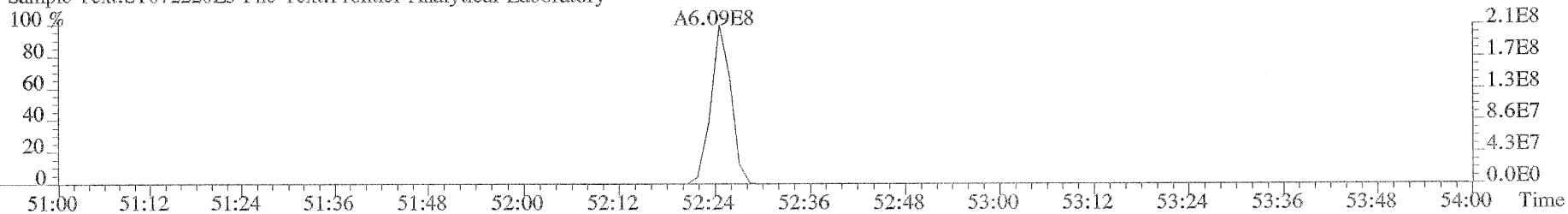
File:22JUL20Z #1-308 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



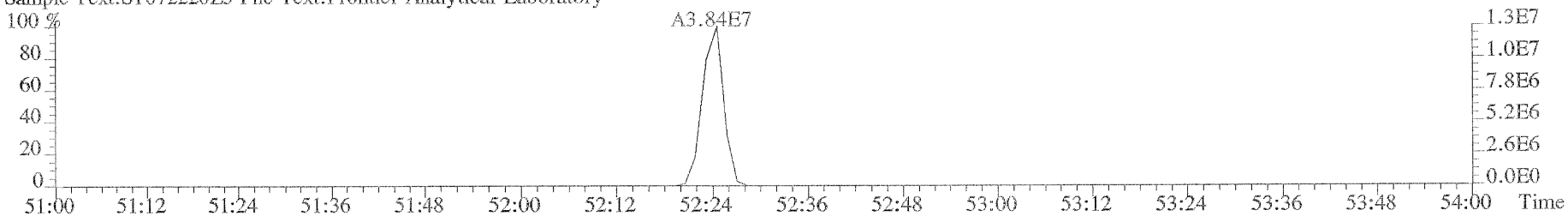
File:22JUL20Z #1-308 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



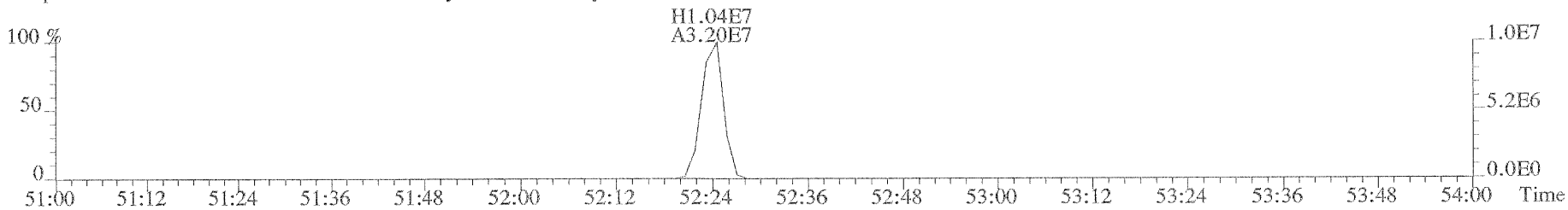
File:22JUL20Z #1-308 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



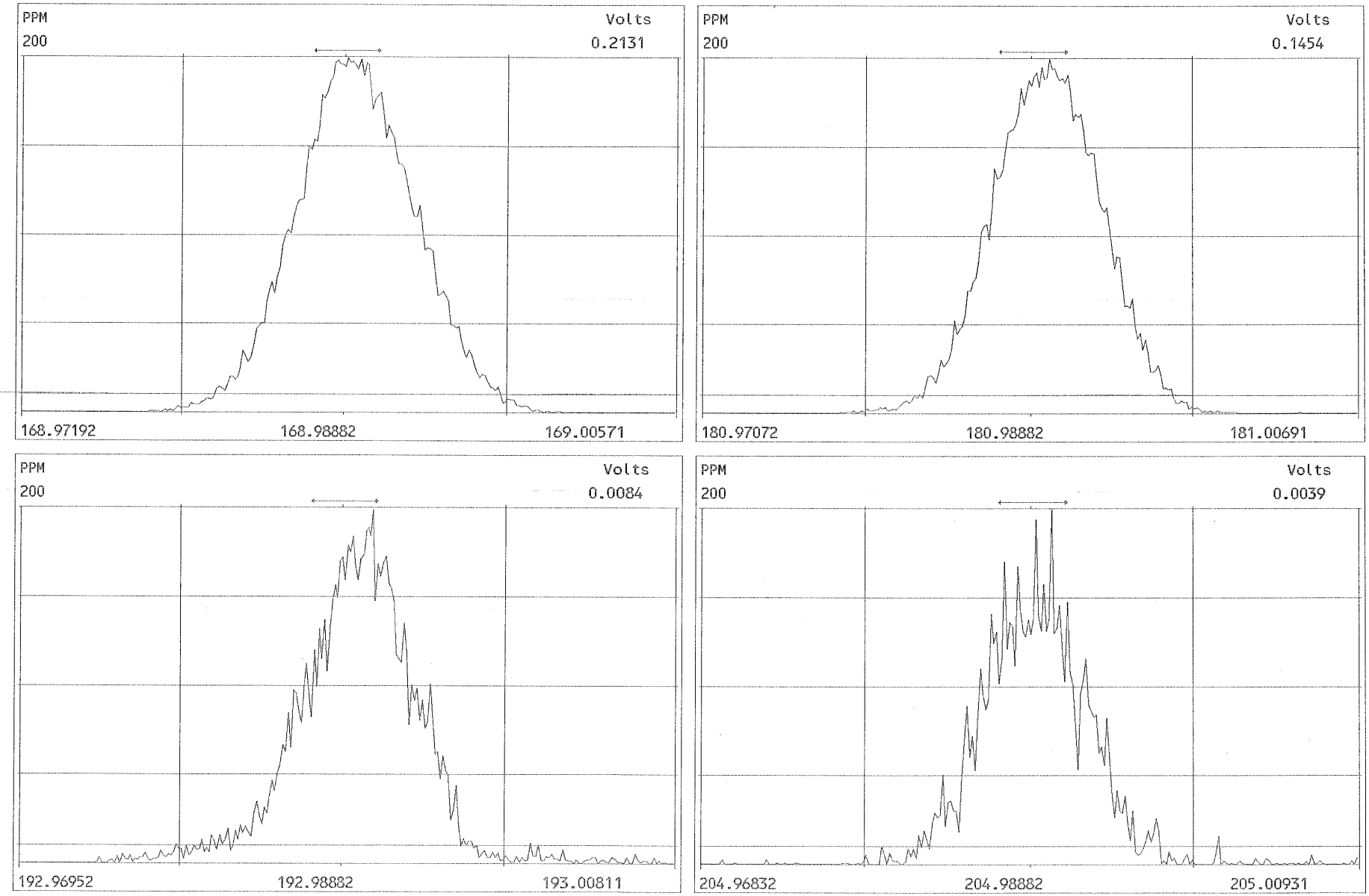
File:22JUL20Z #1-308 Acq:22-JUL-2020 12:55:55 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST072220Z5 File Text:Frontier Analytical Laboratory



File:22JUL20Z #1-308 Acq:22-JUL-2020 12:55:55 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:ST072220Z5 File Text:Frontier Analytical Laboratory

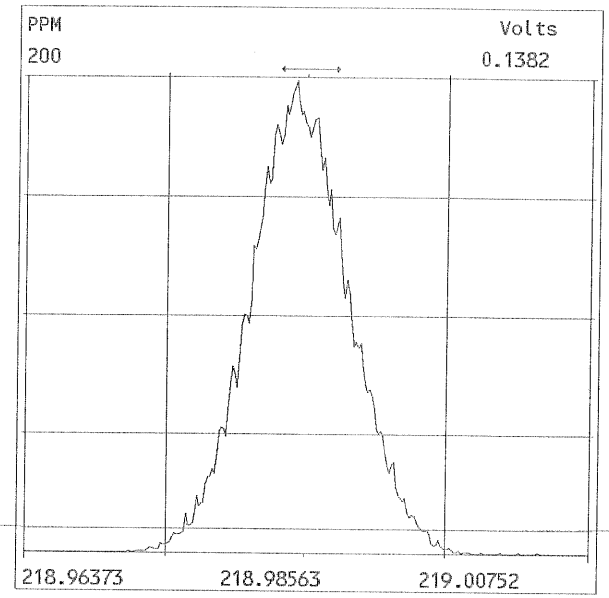


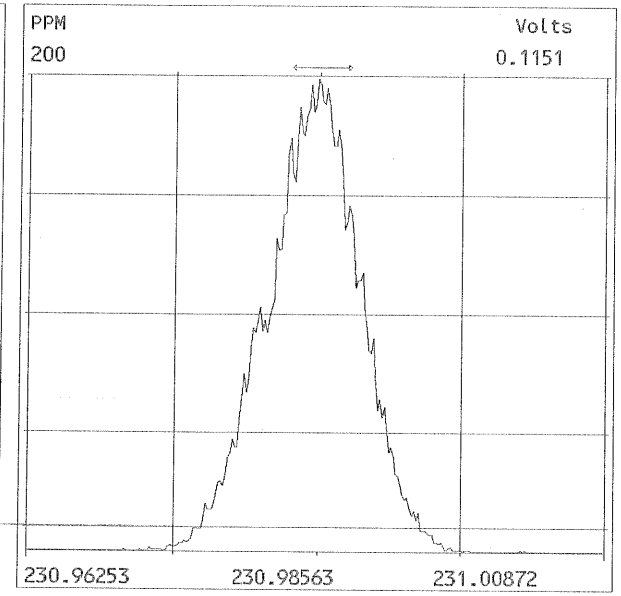
Peak Locate Examination:23-JUL-2020:04:00 File:22JUL20Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK 98

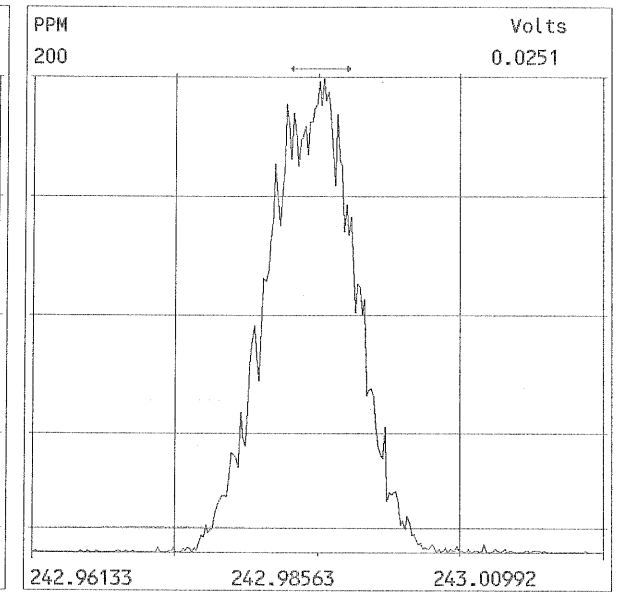


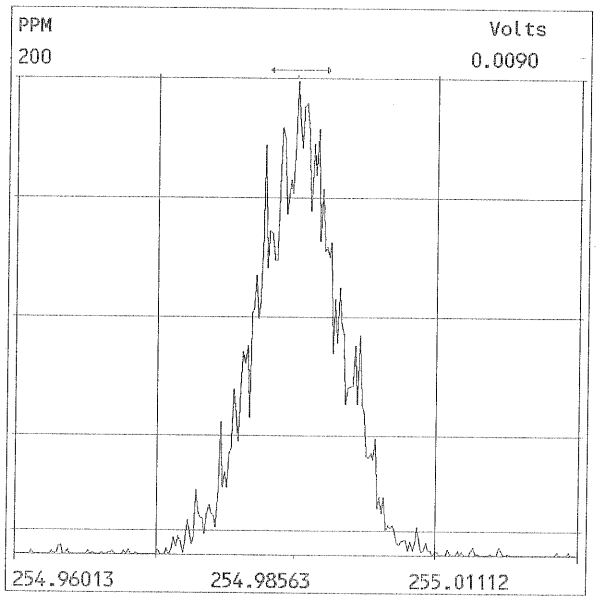
Peak Locate Examination:23-JUL-2020:04:02 File:22JUL20Z_RES_CHECK

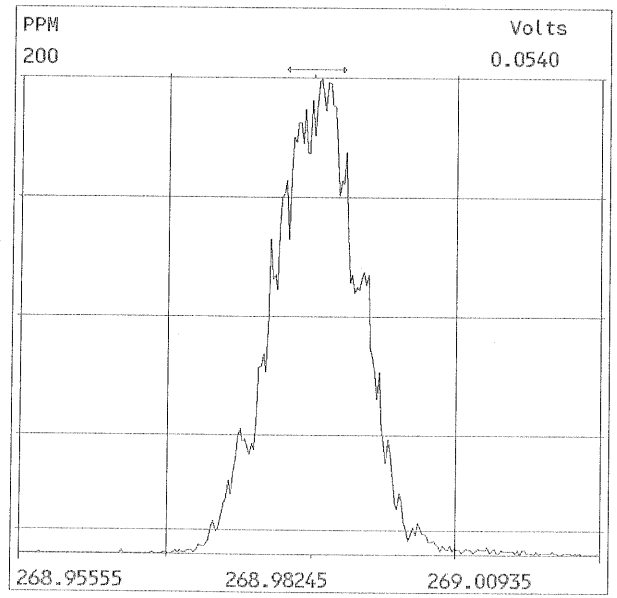
Experiment:1668PCB Function:2 Reference:PFK 98

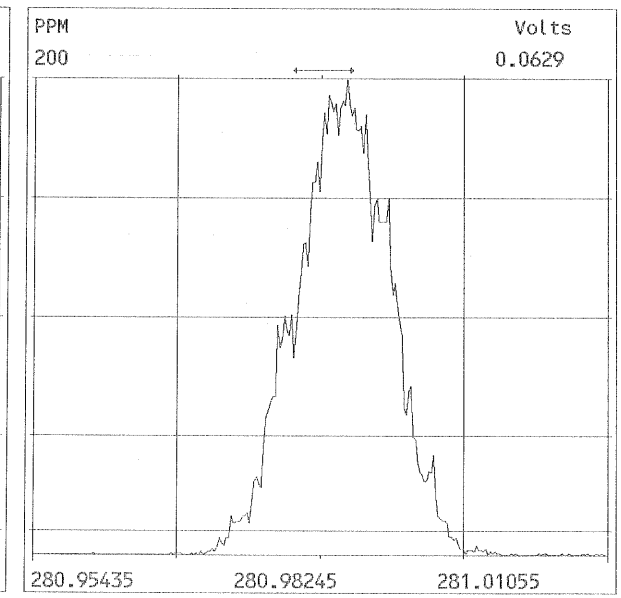




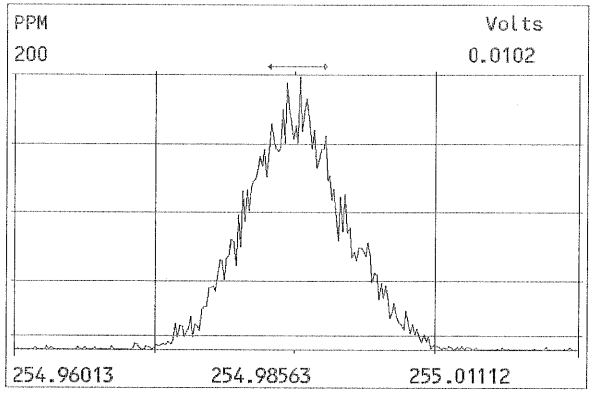


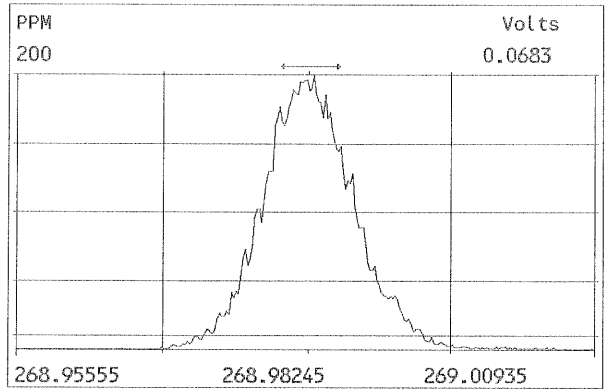


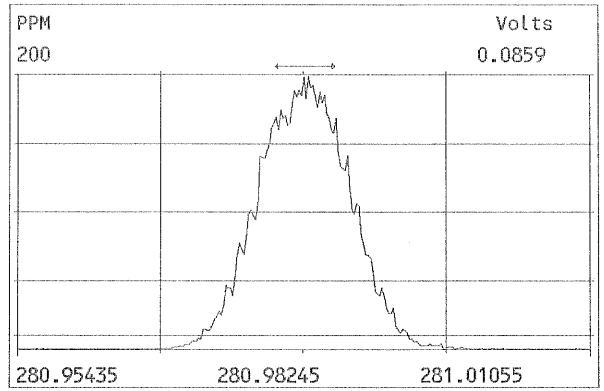


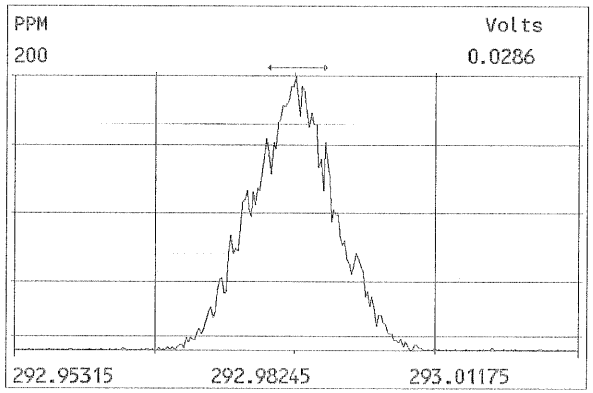


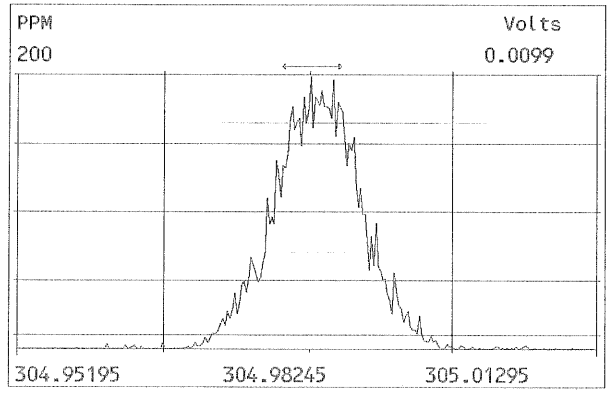
Peak Locate Examination:23-JUL-2020:04:05 File:22JUL20Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK 98

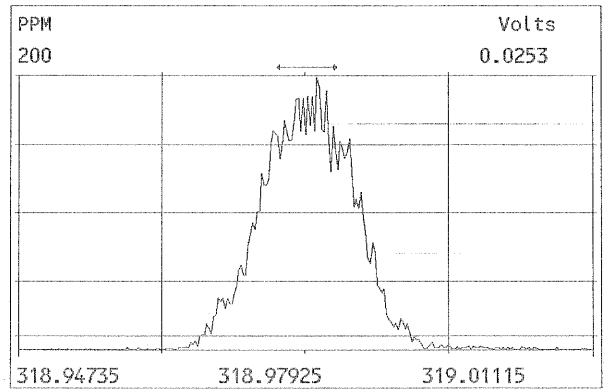


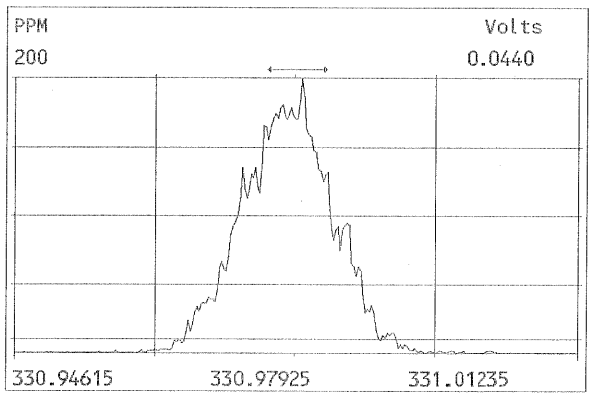


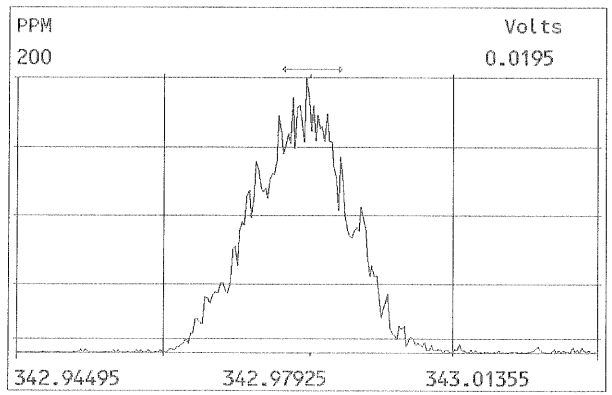






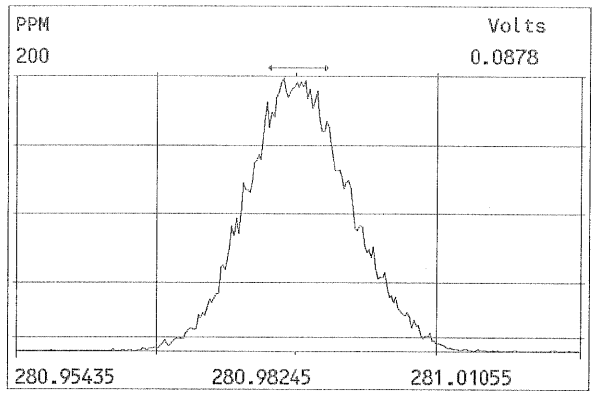


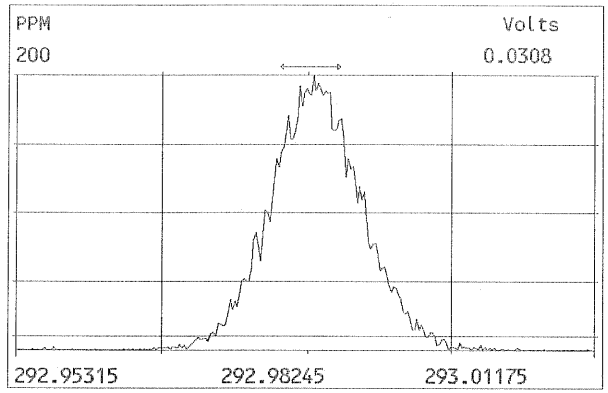


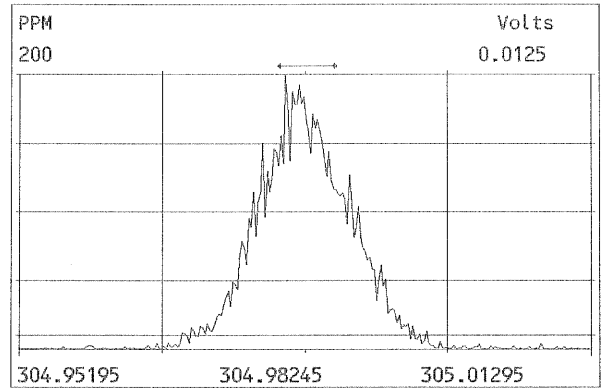


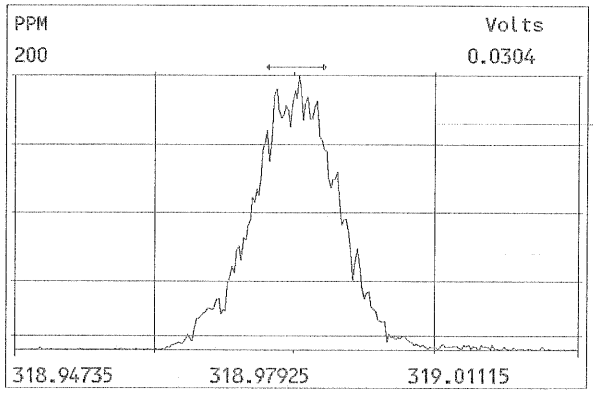
Peak Locate Examination:23-JUL-2020:04:07 File:22JUL20Z_RES_CHECK

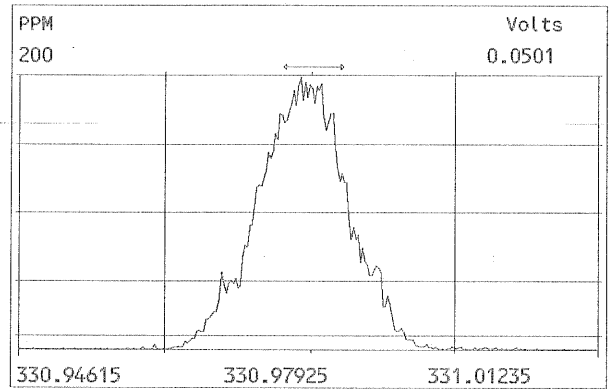
Experiment:1668PCB Function:4 Reference:PFK98

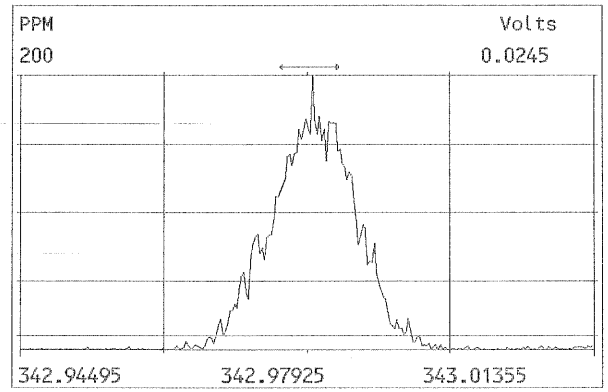


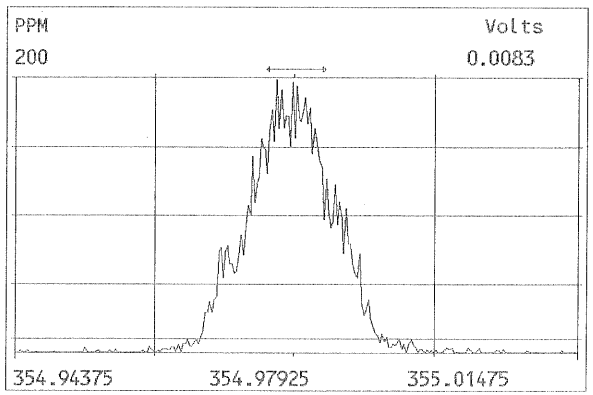


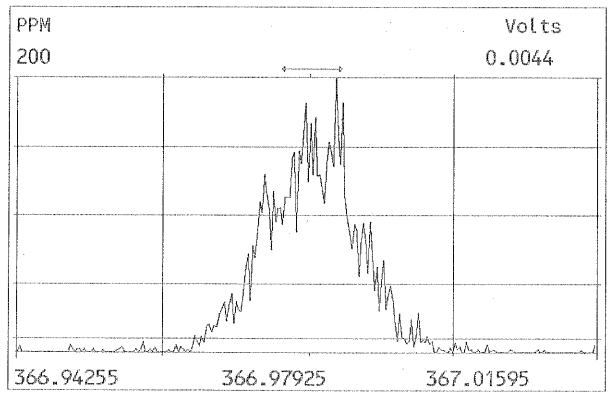


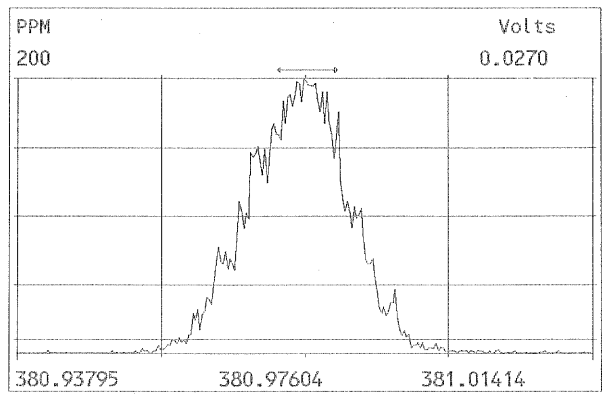




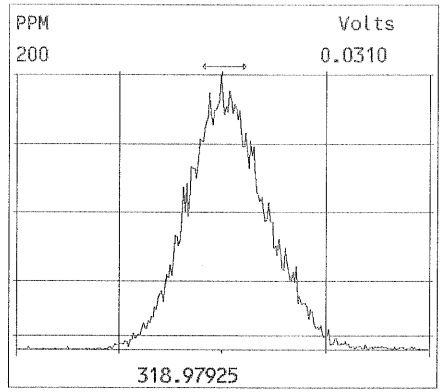


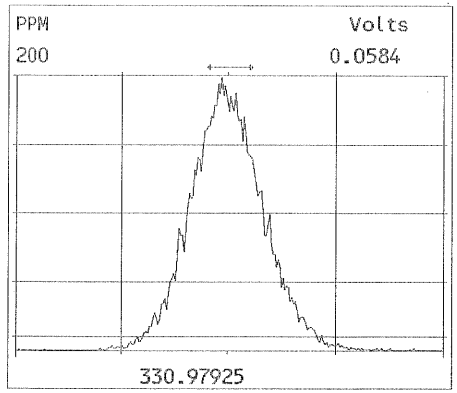


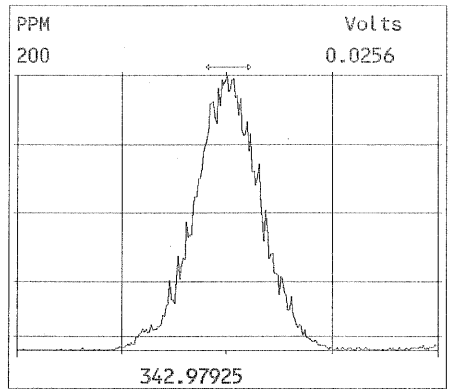


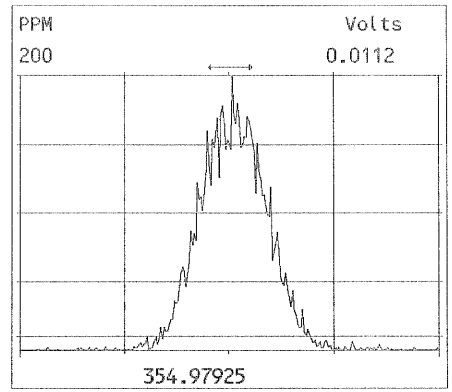


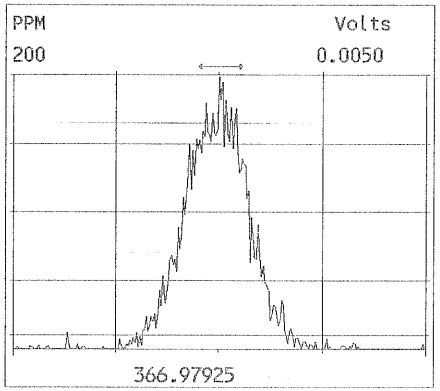
Peak Locate Examination:23-JUL-2020:04:10 File:22JUL20Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK 78

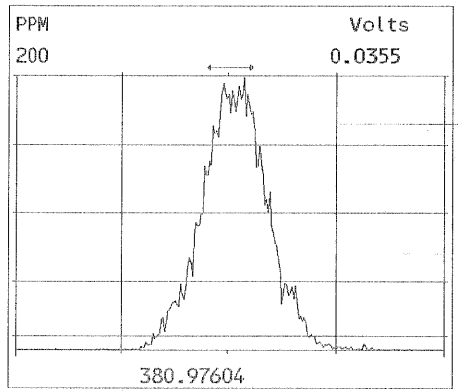


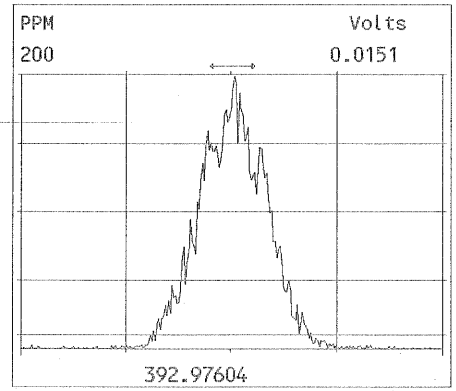


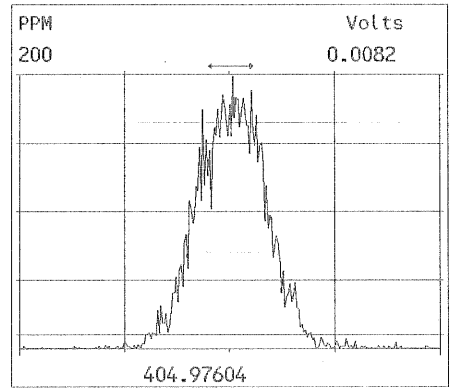


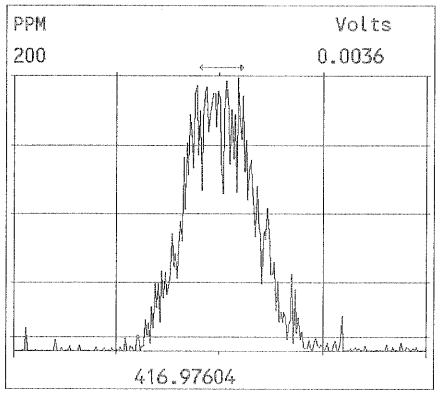


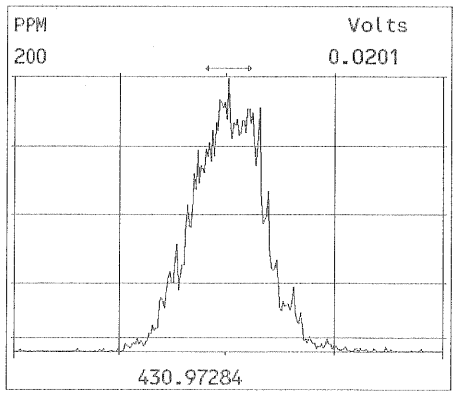


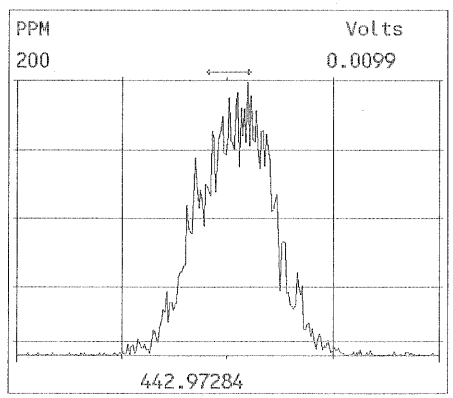




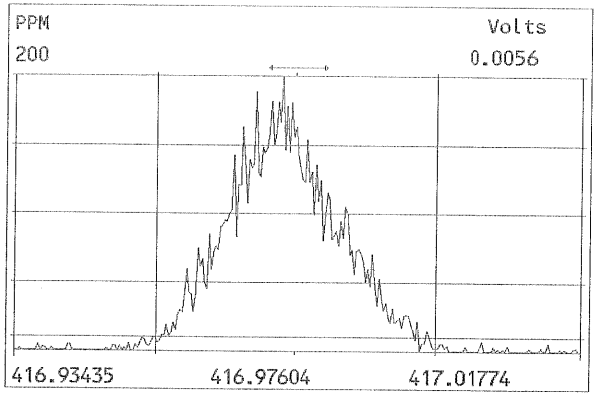


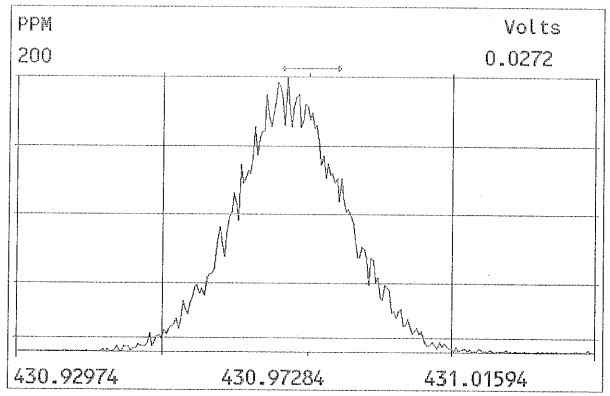


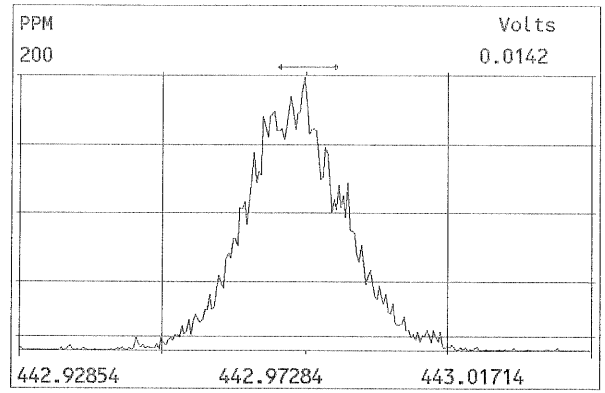


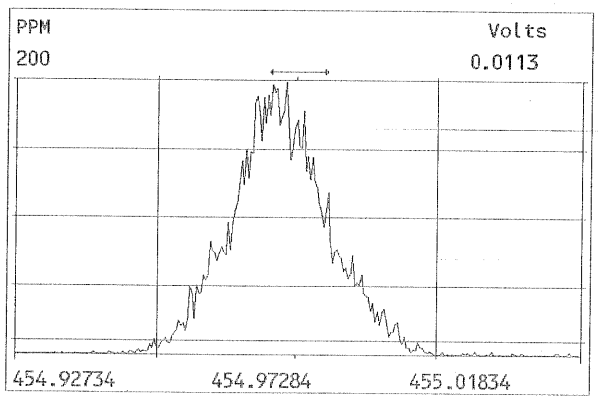


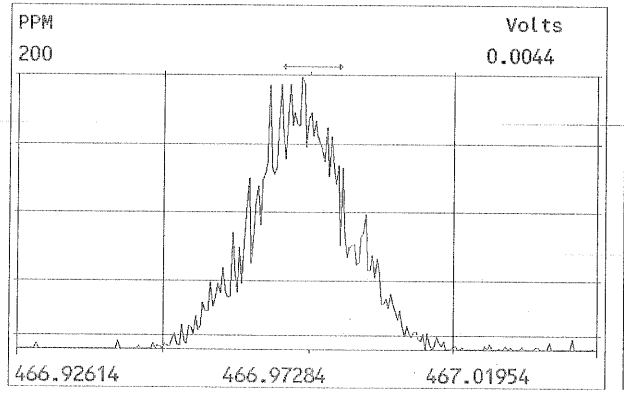
Peak Locate Examination:23-JUL-2020:04:12 File:22JUL20Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK 98

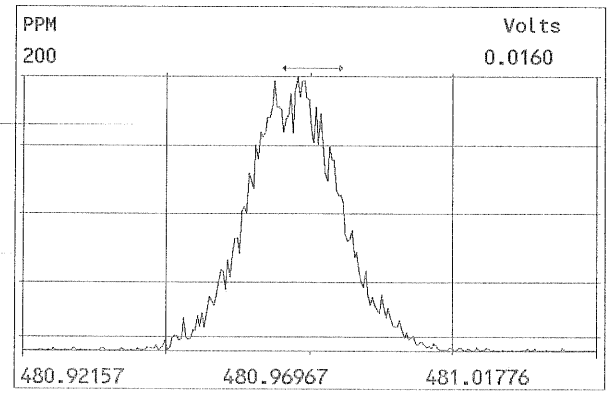


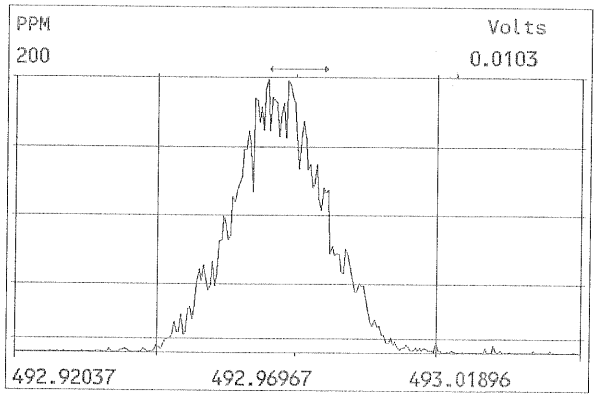


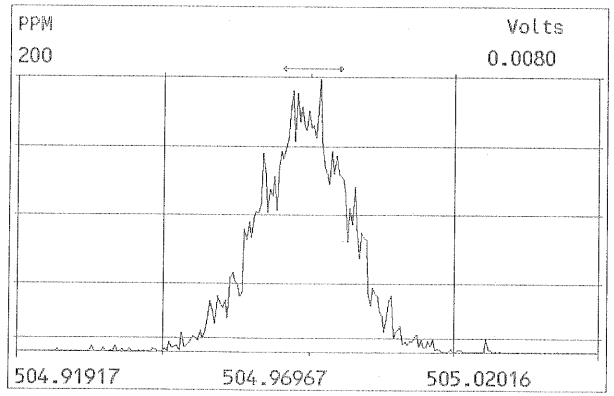


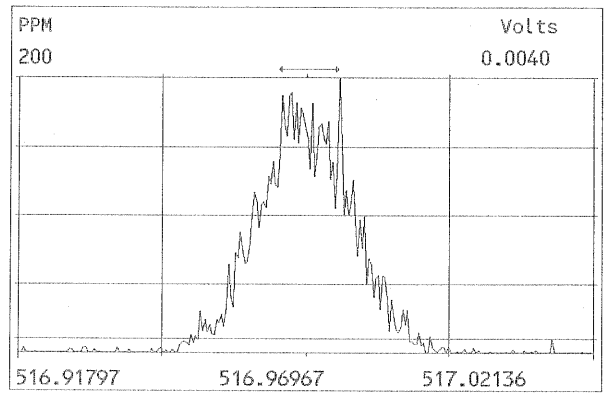












Cal: DAILY209FAL4-10-20-20

Run: 20OCT20Z Analyte: DAILY209FAL4-10-20-20 Results: 13371 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:20OCT20Z S1

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.3232	-	1.32	
13C-PCB-1	0.8672	-	0.87	
PCB-2	1.3137	-	1.31	
PCB-3	1.3161	-	1.32	
13C-PCB-3	0.8248	-	0.82	
PCB-4	1.0565	-	1.06	
PCB-10	1.3007	-	1.30	
13C-PCB-4	0.6526	-	0.65	
PCB-9	1.2829	*	1.28	
PCB-7	1.3289	-	1.33	
PCB-6	1.4171	-	1.42	
PCB-8	1.2692	*	1.27	
PCB-5	1.2294	-	1.23	
PCB-14	1.2786	-	1.28	
PCB-11	1.2316	-	1.23	
PCB-13	1.2246	-	1.22	
PCB-12	1.2464	-	1.25	
PCB-15	1.1239	-	1.12	
13C-PCB-15	1.0168	-	1.02	
PCB-19	1.2711	-	1.27	
PCB-30	1.9011	-	1.90	
PCB-18	1.2833	-	1.28	
PCB-17	1.4200	-	1.42	
PCB-27	1.8943	*	1.89	
PCB-24	1.8321	-	1.83	
PCB-16	1.6122	*	1.61	
PCB-32	1.6652	-	1.67	
13C-PCB-19	0.4186	-	0.42	
13C-PCB-9	-	-	-	
PCB-34	1.0696	-	1.07	
PCB-23	1.1265	-	1.13	
PCB-29	1.0929	-	1.09	
PCB-26	1.0676	-	1.07	
PCB-25	1.0577	-	1.06	
PCB-31	1.0831	-	1.08	
PCB-28	1.3172	-	1.32	
PCB-20	1.0801	-	1.08	Co-elute PCB 21/33
PCB-21	1.0801	-	1.08	Co-elute PCB 20/33
PCB-33	1.0801	-	1.08	Co-elute PCB 20/21
PCB-22	1.2010	-	1.20	
PCB-36	1.1308	-	1.13	
PCB-39	1.1306	-	1.13	
PCB-38	1.0830	-	1.08	
PCB-35	1.0955	-	1.10	
PCB-37	1.1355	-	1.14	
13C-PCB-37	1.6418	-	1.64	

PCB-54	1.3615	-	1.36	
PCB-50	1.0625	-	1.06	
PCB-53	1.0369	-	1.04	
PCB-51	1.0966	-	1.10	
PCB-45	0.9161	-	0.92	
PCB-46	0.8846	-	0.88	
PCB-52	1.1477	-	1.15	Co-elute PCB 69
PCB-69	1.1477	-	1.15	Co-elute PCB 52
PCB-73	1.3186	-	1.32	
PCB-43	0.9939	-	0.99	Co-elute PCB 49
PCB-49	0.9939	-	0.99	Co-elute PCB 43
PCB-47	1.0092	-	1.01	
PCB-48	1.3144	-	1.31	Co-elute PCB 75
PCB-75	1.3144	-	1.31	Co-elute PCB 48
PCB-65	1.3283	-	1.33	
PCB-62	1.2785	-	1.28	
PCB-44	0.8671	-	0.87	
PCB-42	1.1367	-	1.14	Co-elute PCB 59
PCB-59	1.1367	-	1.14	Co-elute PCB 42
PCB-72	1.2824	-	1.28	Co-elute PCB 41/71/64
PCB-41	1.2824	-	1.28	Co-elute PCB 72/71/64
PCB-71	1.2824	-	1.28	Co-elute PCB 72/41/64
PCB-64	1.2824	-	1.28	Co-elute PCB 72/41/71
PCB-68	1.4867	-	1.49	
PCB-40	0.8115	-	0.81	
PCB-57	1.4105	-	1.41	
PCB-67	1.4226	-	1.42	
PCB-58	1.3864	-	1.39	
PCB-63	1.3969	-	1.40	
PCB-74	1.4206	-	1.42	
PCB-61	1.2799	-	1.28	Co-elute PCB 70
PCB-70	1.2799	-	1.28	Co-elute PCB 61
PCB-76	1.4858	*	1.49	Co-elute PCB 66
PCB-66	1.4858	*	1.49	Co-elute PCB 76
PCB-80	1.6852	-	1.69	
PCB-55	1.4907	-	1.49	
13C-PCB-54	1.1275	-	1.13	
PCB-104	1.1762	-	1.18	
PCB-96	1.1452	-	1.15	
PCB-103	0.9500	-	0.95	
PCB-100	0.9554	-	0.96	
PCB-94	0.7950	-	0.79	
PCB-98	0.8608	-	0.86	Co-elute PCB 102
PCB-102	0.8608	-	0.86	Co-elute PCB 98
PCB-95	0.8338	*	0.83	
PCB-93	0.8344	-	0.83	
PCB-88	0.8718	-	0.87	Co-elute PCB 91
PCB-91	0.8718	-	0.87	Co-elute PCB 88
PCB-121	1.1804	-	1.18	
13C-PCB-104	0.8978	-	0.90	
13C-PCB-28	1.9038	-	1.90	
13C-PCB-52	-	-	-	

PCB-56	1.1000	-	1.10	Co-elute PCB 60
PCB-60	1.1000	-	1.10	Co-elute PCB 56
PCB-79	1.2504	-	1.25	
PCB-78	1.2094	-	1.21	
PCB-81	1.2955	-	1.30	
13C-PCB-81	1.6316	-	1.63	
PCB-77	1.1550	-	1.16	
13C-PCB-77	1.7081	-	1.71	
PCB-155	1.2247	-	1.22	
PCB-150	1.2043	-	1.20	
PCB-152	1.1867	-	1.19	
PCB-145	1.1776	-	1.18	
PCB-136	1.0765	-	1.08	
PCB-148	1.0175	-	1.02	
PCB-154	1.0531	-	1.05	
13C-PCB-155	0.9862	-	0.99	
13C-PCB-111	1.2667	-	1.27	
13C-PCB-101	-	-	-	
PCB-84	0.7031	-	0.70	Co-elute PCB 92
PCB-92	0.7031	-	0.70	Co-elute PCB 84
PCB-89	0.6861	-	0.69	
PCB-90	0.7916	-	0.79	Co-elute PCB 101
PCB-101	0.7916	-	0.79	Co-elute PCB 90
PCB-113	0.9237	-	0.92	
PCB-99	0.8409	-	0.84	
PCB-119	1.0112	-	1.01	
PCB-83	0.8018	-	0.80	Co-elute PCB 112
PCB-112	0.8018	-	0.80	Co-elute PCB 83
PCB-109	0.9738	-	0.97	
PCB-97	0.6655	-	0.67	
PCB-86	0.6830	-	0.68	
PCB-125	0.9053	-	0.91	Co-elute PCB 87/117
PCB-87	0.9053	-	0.91	Co-elute PCB 125/117
PCB-117	0.9053	-	0.91	Co-elute PCB 125/87
PCB-111	0.9800	-	0.98	Co-elute PCB 115
PCB-115	0.9800	-	0.98	Co-elute PCB 111
PCB-85	0.8717	-	0.87	Co-elute PCB 116
PCB-116	0.8717	-	0.87	Co-elute PCB 85
PCB-120	1.0767	-	1.08	
PCB-110	0.9913	-	0.99	
PCB-82	0.6122	-	0.61	
PCB-124	1.0607	-	1.06	
PCB-108	1.1057	-	1.11	Co-elute PCB 107
PCB-107	1.1057	-	1.11	Co-elute PCB 108
PCB-123	0.9961	-	1.00	
13C-PCB-123	1.2912	-	1.29	
PCB-118	1.0669	-	1.07	Co-elute PCB 106
PCB-106	1.0669	-	1.07	Co-elute PCB 118
13C-PCB-118	1.3929	-	1.39	
PCB-114	1.0820	-	1.08	
13C-PCB-114	1.3697	-	1.37	
PCB-122	1.1479	-	1.15	
PCB-105	1.1471	-	1.15	
13C-PCB-105	1.3718	-	1.37	
PCB-127	1.0504	-	1.05	
PCB-126	1.0733	-	1.07	
13C-PCB-126	1.3456	-	1.35	

PCB-151	0.8522	-	0.85	
PCB-135	0.8039	-	0.80	
PCB-144	1.0586	-	1.06	
PCB-147	0.9581	-	0.96	
PCB-139	0.9882	-	0.99	Co-elute PCB 149
PCB-149	0.9882	-	0.99	Co-elute PCB 139
PCB-140	0.9539	-	0.95	
PCB-143	0.8128	-	0.81	Co-elute PCB 134
PCB-134	0.8128	-	0.81	Co-elute PCB 143
PCB-131	0.8355	-	0.84	Co-elute PCB 133
PCB-133	0.8355	-	0.84	Co-elute PCB 131
PCB-142	0.8258	-	0.83	
PCB-165	1.0369	-	1.04	Co-elute PCB 146
PCB-146	1.0369	-	1.04	Co-elute PCB 165
PCB-161	1.0000	-	1.00	Co-elute PCB 132
PCB-132	1.0000	-	1.00	Co-elute PCB 161
PCB-153	1.1659	-	1.17	
PCB-168	1.1805	-	1.18	
PCB-141	0.9273	-	0.93	
PCB-137	0.8754	-	0.88	
PCB-130	0.8710	-	0.87	
PCB-138	1.1351	-	1.14	Co-elute PCB 163/164
PCB-163	1.1351	-	1.14	Co-elute PCB 138/164
PCB-164	1.1351	-	1.14	Co-elute PCB 138/163
PCB-158	1.2503	-	1.25	Co-elute PCB 160
PCB-160	1.2503	-	1.25	Co-elute PCB 158
PCB-129	0.8068	-	0.81	
PCB-166	1.2170	-	1.22	
PCB-159	1.3259	-	1.33	
PCB-128	1.0613	-	1.06	Co-elute PCB 162
PCB-162	1.0613	-	1.06	Co-elute PCB 128
PCB-167	1.2343	-	1.23	
13C-PCB-167	1.1392	-	1.14	
PCB-156	1.2885	-	1.29	
13C-PCB-156	1.1236	-	1.12	
PCB-157	1.2450	-	1.24	
13C-PCB-157	1.1439	-	1.14	
PCB-169	1.2049	-	1.20	
13C-PCB-169	1.1674	-	1.17	
PCB-188	1.2098	-	1.21	
13C-PCB-188	0.8640	-	0.86	

PCB-184	1.3129	-	1.31	
PCB-179	1.2763	-	1.28	
PCB-176	1.2627	-	1.26	
PCB-186	1.2210	-	1.22	
PCB-178	0.8979	-	0.90	
PCB-175	0.9306	-	0.93	
PCB-187	1.0211	-	1.02	Co-elute PCB 182
PCB-182	1.0211	-	1.02	Co-elute PCB 187
PCB-183	0.9928	-	0.99	
PCB-185	0.9427	-	0.94	
PCB-174	0.9350	-	0.94	
PCB-181	0.9089	-	0.91	
PCB-177	0.8404	-	0.84	
PCB-171	0.9169	-	0.92	
PCB-173	0.8258	-	0.83	
PCB-172	0.8692	-	0.87	
PCB-192	1.1371	-	1.14	
PCB-180	0.8932	-	0.89	
PCB-193	1.2323	-	1.23	
PCB-191	1.2670	-	1.27	
PCB-170	0.8937	-	0.89	
PCB-190	1.1843	-	1.18	
PCB-189	1.2125	-	1.21	
13C-PCB-189	0.8789	-	0.88	
PCB-202	1.1607	-	1.16	
PCB-201	1.2414	-	1.24	
PCB-204	1.2603	-	1.26	
PCB-197	1.2933	-	1.29	
PCB-200	1.2697	-	1.27	
PCB-198	0.9059	-	0.91	
PCB-199	0.9545	-	0.95	
PCB-203	1.0147	-	1.01	Co-elute PCB 196
PCB-196	1.0147	-	1.01	Co-elute PCB 203
13C-PCB-202	0.6755	-	0.68	
13C-PCB-178	0.7037	-	0.70	
13C-PCB-138	-	-	-	
PCB-195	0.8526	-	0.85	
PCB-194	0.9393	-	0.94	
PCB-205	1.1224	-	1.12	
13C-PCB-205	1.2236	-	1.22	
PCB-208	1.1062	-	1.11	
13C-PCB-208	0.9829	-	0.98	
PCB-207	1.2628	-	1.26	
PCB-206	1.1590	-	1.16	
13C-PCB-206	0.7510	-	0.75	
PCB-209	1.2212	-	1.22	
13C-PCB-209	0.7977	-	0.80	
13C-PCB-194	-	-	-	

Analyst: _____ Date: 10/20/20

Run #1 Filename 20OCT20Z S: 1 Acquired: 20-OCT-20 08:37:49 Cal: DAILY209FAL4-10-20-20
Client ID: ST10202021 Analyte: FAL ID: CS209 200406A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	4.19e+07	3.21 y	14:30	-	1.32	
2	IS/RT	13C-PCB-1	100.00	6.34e+07	3.25 y	14:29	-	0.867	
3	Unk	PCB-2	50.00	4.06e+07	3.19 y	16:43	-	1.31	
4	Unk	PCB-3	50.00	3.97e+07	3.18 y	16:56	-	1.32	
5	IS/RT	13C-PCB-3	100.00	6.03e+07	3.25 y	16:55	-	0.825	
6	Unk	PCB-4	50.00	2.52e+07	1.41 y	18:11	-	1.06	
7	Unk	PCB-10	50.00	3.97e+07	1.52 y	18:14	-	1.30	
8	IS/RT	13C-PCB-4	100.00	4.77e+07	1.59 y	18:09	-	0.653	
9	Unk	PCB-9	50.00	3.91e+07	1.49 y	19:52	-	1.28	
10	Unk	PCB-7	50.00	4.05e+07	1.49 y	19:53	-	1.33	
11	Unk	PCB-6	50.00	4.32e+07	1.51 y	20:29	-	1.42	
12	Unk	PCB-8	50.00	3.87e+07	1.56 y	20:52	-	1.27	
13	Unk	PCB-5	50.00	3.75e+07	1.48 y	20:53	-	1.23	
14	Unk	PCB-14	50.00	3.90e+07	1.50 y	21:54	-	1.28	
15	Unk	PCB-11	50.00	3.76e+07	1.52 y	23:01	-	1.23	
16	Unk	PCB-13	50.00	3.74e+07	1.50 y	23:22	-	1.22	
17	Unk	PCB-12	50.00	3.80e+07	1.48 y	23:25	-	1.25	
18	Unk	PCB-15	50.00	4.18e+07	1.52 y	23:41	-	1.12	
19	IS/RT	13C-PCB-15	100.00	7.43e+07	1.60 y	23:40	-	1.02	
20	Unk	PCB-19	50.00	1.94e+07	1.07 y	22:04	-	1.27	
21	Unk	PCB-30	50.00	2.91e+07	1.08 y	22:54	-	1.90	
22	Unk	PCB-18	50.00	1.96e+07	1.09 y	23:36	-	1.28	
23	Unk	PCB-17	50.00	2.17e+07	1.09 y	23:46	-	1.42	
24	Unk	PCB-27	50.00	2.90e+07	1.13 y	24:19	-	1.89	
25	Unk	PCB-24	50.00	2.80e+07	1.06 y	24:20	-	1.83	
26	Unk	PCB-16	50.00	2.47e+07	1.05 y	24:47	-	1.61	
27	Unk	PCB-32	50.00	2.55e+07	1.10 y	24:48	-	1.67	
28	IS/RT	13C-PCB-19	100.00	3.06e+07	1.10 y	22:02	-	0.419	
29	RS	13C-PCB-9	100.00	7.31e+07	1.57 y	19:49	7.31e+05	-	
30	Unk	PCB-34	50.00	3.49e+07	1.02 y	25:33	-	1.07	
31	Unk	PCB-23	50.00	3.67e+07	1.03 y	25:38	-	1.13	
32	Unk	PCB-29	50.00	3.56e+07	1.02 y	25:52	-	1.09	
33	Unk	PCB-26	50.00	3.48e+07	1.05 y	26:04	-	1.07	
34	Unk	PCB-25	50.00	3.45e+07	1.05 y	26:13	-	1.06	
35	Unk	PCB-31	50.00	3.53e+07	1.04 y	26:33	-	1.08	
36	Unk	PCB-28	50.00	4.30e+07	1.06 y	26:39	-	1.32	
37	Unk	PCB-20	150.00	1.06e+08	1.03 y	27:14	-	1.08	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	1.06e+08	1.03 y	27:14	-	1.08	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	1.06e+08	1.03 y	27:14	-	1.08	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	3.92e+07	1.02 y	27:39	-	1.20	
41	Unk	PCB-36	50.00	3.69e+07	1.05 y	28:13	-	1.13	
42	Unk	PCB-39	50.00	3.69e+07	1.04 y	28:41	-	1.13	
43	Unk	PCB-38	50.00	3.53e+07	1.03 y	29:24	-	1.08	
44	Unk	PCB-35	50.00	3.57e+07	1.04 y	29:54	-	1.10	
45	Unk	PCB-37	50.00	3.70e+07	1.04 y	30:19	-	1.14	
46	IS	13C-PCB-37	100.00	6.52e+07	1.06 y	30:19	-	1.64	

47	Unk	PCB-54	100.00	6.10e+07	0.80 y	25:35		-	1.36	
48	Unk	PCB-50	100.00	4.76e+07	0.78 y	26:41		-	1.06	
49	Unk	PCB-53	100.00	4.64e+07	0.78 y	27:18		-	1.04	
50	Unk	PCB-51	100.00	4.91e+07	0.79 y	27:37		-	1.10	
51	Unk	PCB-45	100.00	4.10e+07	0.79 y	28:02		-	0.916	
52	Unk	PCB-46	100.00	3.96e+07	0.79 y	28:30		-	0.885	
53	Unk	PCB-52	200.00	1.03e+08	0.78 y	28:56		-	1.15	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.03e+08	0.78 y	28:56		-	1.15	Co-elute PCB 52
55	Unk	PCB-73	100.00	5.91e+07	0.79 y	29:03		-	1.32	
56	Unk	PCB-43	200.00	8.90e+07	0.79 y	29:13		-	0.994	Co-elute PCB 49
57	Unk	PCB-49	200.00	8.90e+07	0.79 y	29:13		-	0.994	Co-elute PCB 43
58	Unk	PCB-47	100.00	4.52e+07	0.78 y	29:24		-	1.01	
59	Unk	PCB-48	200.00	1.18e+08	0.80 y	29:30		-	1.31	Co-elute PCB 75
60	Unk	PCB-75	200.00	1.18e+08	0.80 y	29:30		-	1.31	Co-elute PCB 48
61	Unk	PCB-65	100.00	5.95e+07	0.77 y	29:46		-	1.33	
62	Unk	PCB-62	100.00	5.73e+07	0.79 y	29:52		-	1.28	
63	Unk	PCB-44	100.00	3.88e+07	0.78 y	30:10		-	0.867	
64	Unk	PCB-42	200.00	1.02e+08	0.78 y	30:22		-	1.14	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.02e+08	0.78 y	30:22		-	1.14	Co-elute PCB 42
66	Unk	PCB-72	400.00	2.30e+08	0.78 y	30:55		-	1.28	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	2.30e+08	0.78 y	30:55		-	1.28	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	2.30e+08	0.78 y	30:55		-	1.28	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	2.30e+08	0.78 y	30:55		-	1.28	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	6.66e+07	0.78 y	31:10		-	1.49	
71	Unk	PCB-40	100.00	3.64e+07	0.79 y	31:22		-	0.811	
72	Unk	PCB-57	100.00	6.32e+07	0.79 y	31:43		-	1.41	
73	Unk	PCB-67	100.00	6.37e+07	0.78 y	32:00		-	1.42	
74	Unk	PCB-58	100.00	6.21e+07	0.79 y	32:06		-	1.39	
75	Unk	PCB-63	100.00	6.26e+07	0.79 y	32:16		-	1.40	
76	Unk	PCB-74	100.00	6.36e+07	0.78 y	32:33		-	1.42	
77	Unk	PCB-61	200.00	1.15e+08	0.78 y	32:44		-	1.28	Co-elute PCB 70
78	Unk	PCB-70	200.00	1.15e+08	0.78 y	32:44		-	1.28	Co-elute PCB 61
79	Unk	PCB-76	200.00	1.33e+08	0.79 y	32:55		-	1.49	Co-elute PCB 66
80	Unk	PCB-66	200.00	1.33e+08	0.79 y	32:55		-	1.49	Co-elute PCB 76
81	Unk	PCB-80	100.00	7.55e+07	0.80 y	33:08		-	1.69	
82	Unk	PCB-55	100.00	6.68e+07	0.79 y	33:26		-	1.49	
83	IS/RT	13C-PCB-54	100.00	4.48e+07	0.83 y	25:34		-	1.13	
84	Unk	PCB-104	100.00	4.20e+07	1.59 y	30:01		-	1.18	
85	Unk	PCB-96	100.00	4.09e+07	1.59 y	31:13		-	1.15	
86	Unk	PCB-103	100.00	3.39e+07	1.60 y	31:43		-	0.950	
87	Unk	PCB-100	100.00	3.41e+07	1.60 y	32:03		-	0.955	
88	Unk	PCB-94	100.00	2.84e+07	1.60 y	32:30		-	0.795	
89	Unk	PCB-98	200.00	6.14e+07	1.57 y	32:57		-	0.861	Co-elute PCB 102
90	Unk	PCB-102	200.00	6.14e+07	1.57 y	32:57		-	0.861	Co-elute PCB 98
91	Unk	PCB-95	100.00	2.97e+07	1.58 y	33:00		-	0.834	
92	Unk	PCB-93	100.00	2.98e+07	1.64 y	33:05		-	0.834	
93	Unk	PCB-88	200.00	6.22e+07	1.57 y	33:23		-	0.872	Co-elute PCB 91
94	Unk	PCB-91	200.00	6.22e+07	1.57 y	33:23		-	0.872	Co-elute PCB 88
95	Unk	PCB-121	100.00	4.21e+07	1.59 y	33:28		-	1.18	
96	IS	13C-PCB-104	100.00	3.57e+07	1.59 y	29:60		-	0.898	
97	C/Up	13C-PCB-28	100.00	7.56e+07	1.06 y	26:37		-	1.90	
98	RS	13C-PCB-52	100.00	3.97e+07	0.81 y	28:54	3.97e+05	-		
99	Unk	PCB-56	200.00	1.29e+08	0.75 y	33:54		-	1.10	Co-elute PCB 60
100	Unk	PCB-60	200.00	1.29e+08	0.75 y	33:54		-	1.10	Co-elute PCB 56

101	Unk	PCB-79	100.00	7.33e+07	0.77 y	34:55	-	1.25	
102	Unk	PCB-78	100.00	7.09e+07	0.77 y	35:34	-	1.21	
103	Unk	PCB-81	100.00	7.42e+07	0.76 y	36:05	-	1.30	
104	IS	13C-PCB-81	100.00	5.73e+07	0.81 y	36:03	-	1.63	
105	Unk	PCB-77	100.00	6.92e+07	0.77 y	36:39	-	1.16	
106	IS/RT	13C-PCB-77	100.00	5.99e+07	0.83 y	36:37	-	1.71	
107	Unk	PCB-155	100.00	4.24e+07	1.31 y	34:11	-	1.22	
108	Unk	PCB-150	100.00	4.17e+07	1.29 y	35:22	-	1.20	
109	Unk	PCB-152	100.00	4.11e+07	1.30 y	35:49	-	1.19	
110	Unk	PCB-145	100.00	4.08e+07	1.30 y	36:15	-	1.18	
111	Unk	PCB-136	100.00	3.73e+07	1.29 y	36:32	-	1.08	
112	Unk	PCB-148	100.00	3.52e+07	1.30 y	36:39	-	1.02	
113	Unk	PCB-154	100.00	3.64e+07	1.29 y	37:07	-	1.05	
114	IS	13C-PCB-155	100.00	3.46e+07	1.31 y	34:08	-	0.986	
115	C/Up	13C-PCB-111	100.00	4.44e+07	1.63 y	36:13	-	1.27	
116	RS	13C-PCB-101	100.00	3.51e+07	1.68 y	34:35	3.51e+05	-	
117	Unk	PCB-84	200.00	7.54e+07	1.60 y	34:15	-	0.703	Co-elute PCB 92
118	Unk	PCB-92	200.00	7.54e+07	1.60 y	34:15	-	0.703	Co-elute PCB 84
119	Unk	PCB-89	100.00	3.68e+07	1.63 y	34:26	-	0.686	
120	Unk	PCB-90	200.00	8.49e+07	1.59 y	34:36	-	0.792	Co-elute PCB 101
121	Unk	PCB-101	200.00	8.49e+07	1.59 y	34:36	-	0.792	Co-elute PCB 90
122	Unk	PCB-113	100.00	4.95e+07	1.58 y	34:50	-	0.924	
123	Unk	PCB-99	100.00	4.51e+07	1.63 y	34:55	-	0.841	
124	Unk	PCB-119	100.00	5.42e+07	1.61 y	35:22	-	1.01	
125	Unk	PCB-83	200.00	8.60e+07	1.61 y	35:30	-	0.802	Co-elute PCB 112
126	Unk	PCB-112	200.00	8.60e+07	1.61 y	35:30	-	0.802	Co-elute PCB 83
127	Unk	PCB-109	100.00	5.22e+07	1.61 y	35:39	-	0.974	
128	Unk	PCB-97	100.00	3.57e+07	1.60 y	35:51	-	0.665	
129	Unk	PCB-86	100.00	3.66e+07	1.59 y	36:00	-	0.683	
130	Unk	PCB-125	300.00	1.46e+08	1.61 y	36:07	-	0.905	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	1.46e+08	1.61 y	36:07	-	0.905	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	1.46e+08	1.61 y	36:07	-	0.905	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.05e+08	1.60 y	36:15	-	0.980	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.05e+08	1.60 y	36:15	-	0.980	Co-elute PCB 111
135	Unk	PCB-85	200.00	9.35e+07	1.60 y	36:22	-	0.872	Co-elute PCB 116
136	Unk	PCB-116	200.00	9.35e+07	1.60 y	36:22	-	0.872	Co-elute PCB 85
137	Unk	PCB-120	100.00	5.77e+07	1.61 y	36:36	-	1.08	
138	Unk	PCB-110	100.00	5.32e+07	1.63 y	36:44	-	0.991	
139	Unk	PCB-82	100.00	3.28e+07	1.61 y	37:19	-	0.612	
140	Unk	PCB-124	100.00	5.69e+07	1.69 y	37:60	-	1.06	
141	Unk	PCB-108	200.00	1.19e+08	1.43 y	38:06	-	1.11	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.19e+08	1.43 y	38:06	-	1.11	Co-elute PCB 108
143	Unk	PCB-123	100.00	5.09e+07	1.53 y	38:16	-	0.996	
144	IS	13C-PCB-123	100.00	5.10e+07	1.58 y	38:16	-	1.29	
145	Unk	PCB-118	200.00	1.18e+08	1.51 y	38:28	-	1.07	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.18e+08	1.51 y	38:28	-	1.07	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	5.51e+07	1.58 y	38:26	-	1.39	
148	Unk	PCB-114	100.00	5.86e+07	1.51 y	39:04	-	1.08	
149	IS	13C-PCB-114	100.00	5.41e+07	1.60 y	39:02	-	1.37	
150	Unk	PCB-122	100.00	6.16e+07	1.52 y	39:12	-	1.15	
151	Unk	PCB-105	100.00	6.22e+07	1.51 y	39:53	-	1.15	
152	IS	13C-PCB-105	100.00	5.42e+07	1.58 y	39:52	-	1.37	
153	Unk	PCB-127	100.00	5.63e+07	1.52 y	40:11	-	1.05	
154	Unk	PCB-126	100.00	5.71e+07	1.52 y	42:00	-	1.07	
155	IS	13C-PCB-126	100.00	5.32e+07	1.57 y	41:58	-	1.35	

156	Unk	PCB-151	100.00	3.85e+07	1.29 y	37:43	-	0.852	
157	Unk	PCB-135	100.00	3.63e+07	1.28 y	37:56	-	0.804	
158	Unk	PCB-144	100.00	4.79e+07	1.29 y	38:01	-	1.06	
159	Unk	PCB-147	100.00	4.33e+07	1.29 y	38:10	-	0.958	
160	Unk	PCB-139	200.00	8.94e+07	1.28 y	38:24	-	0.988	Co-elute PCB 149
161	Unk	PCB-149	200.00	8.94e+07	1.28 y	38:24	-	0.988	Co-elute PCB 139
162	Unk	PCB-140	100.00	4.31e+07	1.28 y	38:34	-	0.954	
163	Unk	PCB-143	200.00	7.35e+07	1.27 y	38:59	-	0.813	Co-elute PCB 134
164	Unk	PCB-134	200.00	7.35e+07	1.27 y	38:59	-	0.813	Co-elute PCB 143
165	Unk	PCB-131	200.00	7.55e+07	1.28 y	39:15	-	0.835	Co-elute PCB 133
166	Unk	PCB-133	200.00	7.55e+07	1.28 y	39:15	-	0.835	Co-elute PCB 131
167	Unk	PCB-142	100.00	3.73e+07	1.28 y	39:25	-	0.826	
168	Unk	PCB-165	200.00	9.38e+07	1.31 y	39:37	-	1.04	Co-elute PCB 146
169	Unk	PCB-146	200.00	9.38e+07	1.31 y	39:37	-	1.04	Co-elute PCB 165
170	Unk	PCB-161	200.00	9.04e+07	1.27 y	39:50	-	1.000	Co-elute PCB 132
171	Unk	PCB-132	200.00	9.04e+07	1.27 y	39:50	-	1.000	Co-elute PCB 161
172	Unk	PCB-153	100.00	5.27e+07	1.27 y	40:02	-	1.17	
173	Unk	PCB-168	100.00	5.34e+07	1.28 y	40:13	-	1.18	
174	Unk	PCB-141	100.00	4.19e+07	1.28 y	40:43	-	0.927	
175	Unk	PCB-137	100.00	3.96e+07	1.24 y	41:06	-	0.875	
176	Unk	PCB-130	100.00	3.94e+07	1.31 y	41:11	-	0.871	
177	Unk	PCB-138	300.00	1.54e+08	1.27 y	41:32	-	1.14	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.54e+08	1.27 y	41:32	-	1.14	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.54e+08	1.27 y	41:32	-	1.14	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	1.13e+08	1.28 y	41:45	-	1.25	Co-elute PCB 160
181	Unk	PCB-160	200.00	1.13e+08	1.28 y	41:45	-	1.25	Co-elute PCB 158
182	Unk	PCB-129	100.00	3.65e+07	1.26 y	42:00	-	0.807	
183	Unk	PCB-166	100.00	5.50e+07	1.26 y	42:26	-	1.22	
184	Unk	PCB-159	100.00	5.99e+07	1.26 y	42:43	-	1.33	
185	Unk	PCB-128	200.00	9.60e+07	1.27 y	42:59	-	1.06	Co-elute PCB 162
186	Unk	PCB-162	200.00	9.60e+07	1.27 y	42:59	-	1.06	Co-elute PCB 128
187	Unk	PCB-167	100.00	5.56e+07	1.28 y	43:22	-	1.23	
188	IS	13C-PCB-167	100.00	4.50e+07	1.30 y	43:21	-	1.14	
189	Unk	PCB-156	100.00	5.72e+07	1.31 y	44:36	-	1.29	
190	IS	13C-PCB-156	100.00	4.44e+07	1.30 y	44:35	-	1.12	
191	Unk	PCB-157	100.00	5.63e+07	1.30 y	44:51	-	1.24	
192	IS	13C-PCB-157	100.00	4.52e+07	1.29 y	44:50	-	1.14	
193	Unk	PCB-169	100.00	5.56e+07	1.27 y	46:43	-	1.20	
194	IS	13C-PCB-169	100.00	4.62e+07	1.30 y	46:41	-	1.17	
195	Unk	PCB-188	100.00	4.13e+07	1.08 y	39:40	-	1.21	
196	IS	13C-PCB-188	100.00	3.42e+07	1.09 y	39:38	-	0.864	

197	Unk	PCB-184	100.00	4.52e+07	1.06 y	40:05	-	1.31	
198	Unk	PCB-179	100.00	4.40e+07	1.05 y	40:49	-	1.28	
199	Unk	PCB-176	100.00	4.35e+07	1.07 y	41:16	-	1.26	
200	Unk	PCB-186	100.00	4.21e+07	1.06 y	41:50	-	1.22	
201	Unk	PCB-178	100.00	3.09e+07	1.07 y	42:18	-	0.898	
202	Unk	PCB-175	100.00	3.21e+07	1.06 y	42:38	-	0.931	
203	Unk	PCB-187	200.00	7.04e+07	1.07 y	42:48	-	1.02	Co-elute PCB 182
204	Unk	PCB-182	200.00	7.04e+07	1.07 y	42:48	-	1.02	Co-elute PCB 187
205	Unk	PCB-183	100.00	3.42e+07	1.07 y	43:06	-	0.993	
206	Unk	PCB-185	100.00	3.25e+07	1.07 y	43:44	-	0.943	
207	Unk	PCB-174	100.00	3.22e+07	1.07 y	44:03	-	0.935	
208	Unk	PCB-181	100.00	3.13e+07	1.05 y	44:10	-	0.909	
209	Unk	PCB-177	100.00	2.90e+07	1.08 y	44:18	-	0.840	
210	Unk	PCB-171	100.00	3.16e+07	1.07 y	44:36	-	0.917	
211	Unk	PCB-173	100.00	2.85e+07	1.09 y	44:59	-	0.826	
212	Unk	PCB-172	100.00	2.99e+07	1.08 y	45:24	-	0.869	
213	Unk	PCB-192	100.00	3.92e+07	1.06 y	45:34	-	1.14	
214	Unk	PCB-180	100.00	3.08e+07	1.07 y	45:44	-	0.893	
215	Unk	PCB-193	100.00	4.25e+07	1.07 y	45:55	-	1.23	
216	Unk	PCB-191	100.00	4.37e+07	1.08 y	46:07	-	1.27	
217	Unk	PCB-170	100.00	3.08e+07	1.04 y	47:03	-	0.894	
218	Unk	PCB-190	100.00	4.08e+07	1.06 y	47:11	-	1.18	
219	Unk	PCB-189	100.00	4.21e+07	1.07 y	48:24	-	1.21	
220	IS	13C-PCB-189	100.00	3.47e+07	1.09 y	48:22	-	0.879	
221	Unk	PCB-202	150.00	4.65e+07	0.93 y	44:46	-	1.16	
222	Unk	PCB-201	150.00	4.97e+07	0.92 y	45:14	-	1.24	
223	Unk	PCB-204	150.00	5.05e+07	0.91 y	45:22	-	1.26	
224	Unk	PCB-197	150.00	5.18e+07	0.91 y	45:37	-	1.29	
225	Unk	PCB-200	150.00	5.09e+07	0.93 y	46:23	-	1.27	
226	Unk	PCB-198	150.00	3.63e+07	0.91 y	47:33	-	0.906	
227	Unk	PCB-199	150.00	3.82e+07	0.92 y	47:39	-	0.954	
228	Unk	PCB-203	300.00	8.13e+07	0.91 y	47:54	-	1.01	Co-elute PCB 196
229	Unk	PCB-196	300.00	8.13e+07	0.91 y	47:54	-	1.01	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	2.67e+07	0.91 y	44:45	-	0.676	
231	C/Up	13C-PCB-178	100.00	2.78e+07	1.09 y	42:16	-	0.704	
232	RS	13C-PCB-138	100.00	3.95e+07	1.29 y	41:29	3.95e+05	-	
233	Unk	PCB-195	150.00	6.52e+07	0.88 y	48:59	-	0.853	
234	Unk	PCB-194	150.00	7.18e+07	0.90 y	49:48	-	0.939	
235	Unk	PCB-205	150.00	8.58e+07	0.90 y	50:03	-	1.12	
236	IS	13C-PCB-205	100.00	5.10e+07	0.90 y	50:02	-	1.22	
237	Unk	PCB-208	150.00	6.79e+07	1.37 y	49:07	-	1.11	
238	IS	13C-PCB-208	100.00	4.09e+07	0.82 y	49:06	-	0.983	
239	Unk	PCB-207	150.00	6.84e+07	1.37 y	49:25	-	1.26	
240	Unk	PCB-206	150.00	5.44e+07	1.37 y	51:14	-	1.16	
241	IS	13C-PCB-206	100.00	3.13e+07	0.82 y	51:14	-	0.751	
242	Unk	PCB-209	150.00	6.09e+07	1.20 y	52:26	-	1.22	
243	IS	13C-PCB-209	100.00	3.32e+07	1.20 y	52:25	-	0.798	
244	RS	13C-PCB-194	100.00	4.17e+07	0.91 y	49:47	4.17e+05	-	

Analyst: _____ Date: 10/30/12

Frontier Analytical Laboratory

NATIVES
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/22/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 20OCT20Z Sam:1 Analysis Date: 20-OCT-20 08:37:49

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.21	2.66-3.60	y	54.6	37.5 - 62.5
PCB-3	M/M+2	3.18	2.66-3.60	y	53.5	37.5 - 62.5
PCB-4	M/M+2	1.41	1.33-1.79	y	46.3	37.5 - 62.5
PCB-15	M/M+2	1.52	1.33-1.79	y	51.5	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	52.5	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	49.6	37.5 - 62.5
PCB-54	M/M+2	0.80	0.65-0.89	y	115	75.0 - 125
PCB-77	M/M+2	0.77	0.65-0.89	y	105	75.0 - 125
PCB-81	M/M+2	0.76	0.65-0.89	y	114	75.0 - 125
PCB-104	M+2/M+4	1.59	1.32-1.78	y	105	75.0 - 125
PCB-105	M+2/M+4	1.51	1.32-1.78	y	104	75.0 - 125
PCB-114	M+2/M+4	1.51	1.32-1.78	y	95.9	75.0 - 125
PCB-118	M+2/M+4	1.51	1.32-1.78	y	190	150 - 250
PCB-123	M+2/M+4	1.53	1.32-1.78	y	89.8	75.0 - 125
PCB-126	M+2/M+4	1.52	1.32-1.78	y	99.0	75.0 - 125
PCB-155	M+2/M+4	1.31	1.05-1.43	y	108	75.0 - 125
PCB-156	M+2/M+4	1.31	1.05-1.43	y	114	75.0 - 125
PCB-157	M+2/M+4	1.30	1.05-1.43	y	115	75.0 - 125
PCB-167	M+2/M+4	1.28	1.05-1.43	y	111	75.0 - 125
PCB-169	M+2/M+4	1.27	1.05-1.43	y	112	75.0 - 125
PCB-188	M+2/M+4	1.08	0.89-1.21	y	110	75.0 - 125
PCB-189	M+2/M+4	1.07	0.89-1.21	y	113	75.0 - 125
PCB-202	M+2/M+4	0.93	0.76-1.02	y	169	112.5 - 187.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	155	112.5 - 187.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	167	112.5 - 187.5
PCB-208	M+4/M+6	1.37	1.13-1.53	y	165	112.5 - 187.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	163	112.5 - 187.5

Analyst: _____ Date: 10/20/20

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/22/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 20OCT20Z Sam:1 Analysis Date: 20-OCT-20 08:37:49

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.25	2.66-3.60	y	96.5	50.0 - 145
13C-PCB-3	M/M+2	3.25	2.66-3.60	y	88.7	50.0 - 145
13C-PCB-4	M/M+2	1.59	1.33-1.79	y	99.0	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	93.6	50.0 - 145
13C-PCB-19	M/M+2	1.10	0.88-1.20	y	82.9	50.0 - 145
13C-PCB-37	M/M+2	1.06	0.88-1.20	y	100	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	89.3	50.0 - 145
13C-PCB-77	M/M+2	0.83	0.65-0.89	y	106	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	104	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	88.0	50.0 - 145
13C-PCB-105	M+2/M+4	1.58	1.32-1.78	y	107	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	1.58	1.32-1.78	y	103	50.0 - 145
13C-PCB-123	M+2/M+4	1.58	1.32-1.78	y	101	50.0 - 145
13C-PCB-126	M+2/M+4	1.57	1.32-1.78	y	109	50.0 - 145
13C-PCB-155	M+2/M+4	1.31	1.05-1.43	y	89.3	50.0 - 145
13C-PCB-156	M+2/M+4	1.30	1.05-1.43	y	94.6	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	94.2	50.0 - 145
13C-PCB-167	M+2/M+4	1.30	1.05-1.43	y	92.7	50.0 - 145
13C-PCB-169	M+2/M+4	1.30	1.05-1.43	y	99.8	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	76.7	50.0 - 145
13C-PCB-189	M+2/M+4	1.09	0.89-1.21	y	91.0	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	70.7	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	92.9	50.0 - 145
13C-PCB-206	M+2/M+4	0.82	0.65-0.89	y	80.1	50.0 - 145
13C-PCB-208	M+2/M+4	0.82	0.65-0.89	y	71.5	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	72.3	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.06	0.88-1.20	y	110	65.0 - 135
13C-PCB-111	M+2/M+4	1.63	1.32-1.78	y	99.6	75.0 - 125
13C-PCB-178	M+2/M+4	1.09	0.89-1.21	y	90.6	75.0 - 125

Analyst: [signature] Date: 10/20/20

FAL ID: ST102020Z1 Filename: 20OCT20Z Sam:1 Acquired: 20-OCT-20 08:37:49 ICal: 1668PCBFAL4-7-22-20
Client ID: CS209 200406A ConCal: ST102020Z1 EndCal: ST102020Z2
Results: 20OCT20Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.19e+07	3.21 y	14:30	1.21	54.6		2.50	-	-	*	-
13C-PCB-1	6.34e+07	3.25 y	14:29	0.90	96.5		2.50				96.5
PCB-3	3.97e+07	3.18 y	16:56	1.23	53.5		2.50	-	-	*	-
13C-PCB-3	6.03e+07	3.25 y	16:55	0.93	88.7		2.50				88.7
PCB-4	2.52e+07	1.41 y	18:11	1.14	46.3		2.50	-	-	*	-
13C-PCB-4	4.77e+07	1.59 y	18:09	0.66	99.0		2.50				99.0
PCB-15	4.18e+07	1.52 y	23:41	1.09	51.5		2.50	-	-	*	-
13C-PCB-15	7.43e+07	1.60 y	23:40	1.09	93.6		2.50				93.6
PCB-19	1.94e+07	1.07 y	22:04	1.21	52.5		2.50	-	-	*	-
13C-PCB-19	3.06e+07	1.10 y	22:02	0.50	82.9		2.50				82.9
13C-PCB-9	7.31e+07	1.57 y	19:49	-	71.6		2.50				
PCB-37	3.70e+07	1.04 y	30:19	1.14	49.6		2.50	-	-	*	-
13C-PCB-37	6.52e+07	1.06 y	30:19	1.64	100		2.50				100
PCB-54	6.10e+07	0.80 y	25:35	1.18	115		2.50	-	-	*	-
13C-PCB-54	4.48e+07	0.83 y	25:34	1.26	89.3		2.50				89.3
PCB-104	4.20e+07	1.59 y	30:01	1.12	105		2.50	-	-	*	-
13C-PCB-104	3.57e+07	1.59 y	29:60	1.02	88.0		2.50				88.0
13C-PCB-28	7.56e+07	1.06 y	26:37	1.73	110		2.50				110
13C-PCB-52	3.97e+07	0.81 y	28:54	-	74.8		2.50				
PCB-81	7.42e+07	0.76 y	36:05	1.13	114		2.50	-	-	*	-
13C-PCB-81	5.73e+07	0.81 y	36:03	1.57	104		2.50				104
PCB-77	6.92e+07	0.77 y	36:39	1.10	105		2.50	-	-	*	-
13C-PCB-77	5.99e+07	0.83 y	36:37	1.61	106		2.50				106
PCB-155	4.24e+07	1.31 y	34:11	1.13	108		2.50	-	-	*	-
13C-PCB-155	3.46e+07	1.31 y	34:08	1.10	89.3		2.50				89.3
13C-PCB-111	4.44e+07	1.63 y	36:13	1.27	99.6		2.50				99.6
13C-PCB-101	3.51e+07	1.68 y	34:35	-	73.7		2.50				
PCB-123	5.09e+07	1.53 y	38:16	1.11	89.8		2.50	-	-	*	-
13C-PCB-123	5.10e+07	1.58 y	38:16	1.28	101		2.50				101
PCB-118	1.18e+08	1.51 y	38:28	1.12	190		2.50	-	-	*	-
13C-PCB-118	5.51e+07	1.58 y	38:26	1.35	103		2.50				103
PCB-114	5.86e+07	1.51 y	39:04	1.13	95.9		2.50	-	-	*	-
13C-PCB-114	5.41e+07	1.60 y	39:02	1.29	106		2.50				106
PCB-105	6.22e+07	1.51 y	39:53	1.10	104		2.50	-	-	*	-
13C-PCB-105	5.42e+07	1.58 y	39:52	1.28	107		2.50				107
PCB-126	5.71e+07	1.52 y	42:00	1.08	99.0		2.50	-	-	*	-
13C-PCB-126	5.32e+07	1.57 y	41:58	1.23	109		2.50				109
PCB-167	5.56e+07	1.28 y	43:22	1.11	111		2.50	-	-	*	-
13C-PCB-167	4.50e+07	1.30 y	43:21	1.23	92.7		2.50				92.7
PCB-156	5.72e+07	1.31 y	44:36	1.13	114		2.50	-	-	*	-
13C-PCB-156	4.44e+07	1.30 y	44:35	1.19	94.6		2.50				94.6
PCB-157	5.63e+07	1.30 y	44:51	1.08	115		2.50	-	-	*	-
13C-PCB-157	4.52e+07	1.29 y	44:50	1.21	94.2		2.50				94.2
PCB-169	5.56e+07	1.27 y	46:43	1.08	112		2.50	-	-	*	-
13C-PCB-169	4.62e+07	1.30 y	46:41	1.17	99.8		2.50				99.8
PCB-188	4.13e+07	1.08 y	39:40	1.10	110		2.50	-	-	*	-
13C-PCB-188	3.42e+07	1.09 y	39:38	1.13	76.7		2.50				76.7
PCB-189	4.21e+07	1.07 y	48:24	1.07	113		2.50	-	-	*	-
13C-PCB-189	3.47e+07	1.09 y	48:22	0.97	91.0		2.50				91.0
PCB-202	4.65e+07	0.93 y	44:46	1.03	169		2.50	-	-	*	-
13C-PCB-202	2.67e+07	0.91 y	44:45	0.96	70.7		2.50				70.7
13C-PCB-178	2.78e+07	1.09 y	42:16	0.78	90.6		2.50				90.6
13C-PCB-138	3.95e+07	1.29 y	41:29	-	82.2		2.50				

Client ID: CS209 200406A ConCal: ST10202OZ1 EndCal: ST10202OZ2
Results: 20OCT20Z GC Column: DB1MS Amount: 1.000

PCB-205	8.58e+07	0.90	y	50:03	1.09	155	2.50	-	-	*	-
13C-PCB-205	5.10e+07	0.90	y	50:02	1.32	92.9	2.50				92.9
PCB-208	6.79e+07	1.37	y	49:07	1.01	165	2.50	-	-	*	-
13C-PCB-208	4.09e+07	0.82	y	49:06	1.38	71.5	2.50				71.5
PCB-206	5.44e+07	1.37	y	51:14	1.04	167	2.50	-	-	*	-
13C-PCB-206	3.13e+07	0.82	y	51:14	0.94	80.1	2.50				80.1
PCB-209	6.09e+07	1.20	y	52:26	1.13	163	2.50	-	-	*	-
13C-PCB-209	3.32e+07	1.20	y	52:25	1.10	72.3	2.50				72.3
13C-PCB-194	4.17e+07	0.91	y	49:47	-	109	2.50				

Analyst: _____ Date: 10/20/20

Frontier Analytical Laboratory

NATIVES
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 10/20/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 20OCT20Z Sam:15 Analysis Date: 20-OCT-20 22:18:04

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.23	2.66-3.60	y	53.6	37.5 - 62.5
PCB-3	M/M+2	3.11	2.66-3.60	y	52.9	37.5 - 62.5
PCB-4	M/M+2	1.50	1.33-1.79	y	51.8	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	55.2	37.5 - 62.5
PCB-19	M/M+2	1.10	0.88-1.20	y	54.5	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	53.4	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	99.8	75.0 - 125
PCB-77	M/M+2	0.81	0.65-0.89	y	99.7	75.0 - 125
PCB-81	M/M+2	0.80	0.65-0.89	y	99.2	75.0 - 125
PCB-104	M+2/M+4	1.56	1.32-1.78	y	103	75.0 - 125
PCB-105	M+2/M+4	1.55	1.32-1.78	y	108	75.0 - 125
PCB-114	M+2/M+4	1.56	1.32-1.78	y	114	75.0 - 125
PCB-118	M+2/M+4	1.56	1.32-1.78	y	215	150 - 250
PCB-123	M+2/M+4	1.57	1.32-1.78	y	113	75.0 - 125
PCB-126	M+2/M+4	1.60	1.32-1.78	y	112	75.0 - 125
PCB-155	M+2/M+4	1.31	1.05-1.43	y	103	75.0 - 125
PCB-156	M+2/M+4	1.29	1.05-1.43	y	102	75.0 - 125
PCB-157	M+2/M+4	1.28	1.05-1.43	y	101	75.0 - 125
PCB-167	M+2/M+4	1.27	1.05-1.43	y	102	75.0 - 125
PCB-169	M+2/M+4	1.29	1.05-1.43	y	102	75.0 - 125
PCB-188	M+2/M+4	1.09	0.89-1.21	y	107	75.0 - 125
PCB-189	M+2/M+4	1.07	0.89-1.21	y	100	75.0 - 125
PCB-202	M+2/M+4	0.95	0.76-1.02	y	164	112.5 - 187.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	153	112.5 - 187.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	151	112.5 - 187.5
PCB-208	M+4/M+6	1.38	1.13-1.53	y	151	112.5 - 187.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	152	112.5 - 187.5

Analyst: _____ Date: 10/21/20

Frontier Analytical Laboratory

LABELED STANDARDS
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 10/20/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 20OCT20Z Sam:15 Analysis Date: 20-OCT-20 22:18:04

LABELED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
13C-PCB-1	M/M+2	3.36	2.66-3.60	y	82.9	50.0 - 145
13C-PCB-3	M/M+2	3.39	2.66-3.60	y	84.4	50.0 - 145
13C-PCB-4	M/M+2	1.63	1.33-1.79	y	99.6	50.0 - 145
13C-PCB-15	M/M+2	1.62	1.33-1.79	y	93.2	50.0 - 145
13C-PCB-19	M/M+2	1.13	0.88-1.20	y	77.5	50.0 - 145
13C-PCB-37	M/M+2	1.08	0.88-1.20	y	97.0	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	105	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	105	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	107	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	94.5	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	105	50.0 - 145
13C-PCB-114	M+2/M+4	1.62	1.32-1.78	y	106	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	108	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	107	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	104	50.0 - 145
13C-PCB-155	M+2/M+4	1.35	1.05-1.43	y	91.9	50.0 - 145
13C-PCB-156	M+2/M+4	1.32	1.05-1.43	y	101	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	1.31	1.05-1.43	y	101	50.0 - 145
13C-PCB-169	M+2/M+4	1.32	1.05-1.43	y	96.6	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	90.0	50.0 - 145
13C-PCB-189	M+2/M+4	1.11	0.89-1.21	y	92.9	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	77.6	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	98.2	50.0 - 145
13C-PCB-206	M+2/M+4	0.82	0.65-0.89	y	103	50.0 - 145
13C-PCB-208	M+2/M+4	0.82	0.65-0.89	y	105	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	97.9	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	100.0	65.0 - 135
13C-PCB-111	M+2/M+4	1.64	1.32-1.78	y	99.3	75.0 - 125
13C-PCB-178	M+2/M+4	1.15	0.89-1.21	y	84.3	75.0 - 125

Analyst: _____ Date: 10/21/20

FAL ID: ST10202022 Filename: 20OCT20Z Sam:15 Acquired: 20-OCT-20 22:18:04 ICal: DAILY209FAL4-10-20-20 1 of 2
Client ID: CS209 200406A ConCal: ST10202021 EndCal: ST10202022
Results: 13371 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.60e+07	3.23 y	14:31	1.32	53.6		2.50	-	-	*	
13C-PCB-1	5.07e+07	3.36 y	14:30	0.87	82.9		2.50				82.9
PCB-3	3.42e+07	3.11 y	16:56	1.32	52.9		2.50	-	-	*	
13C-PCB-3	4.91e+07	3.39 y	16:55	0.82	84.4		2.50				84.4
PCB-4	2.51e+07	1.50 y	18:11	1.06	51.8		2.50	-	-	*	
13C-PCB-4	4.59e+07	1.63 y	18:09	0.65	99.6		2.50				99.6
PCB-15	4.15e+07	1.55 y	23:41	1.12	55.2		2.50	-	-	*	
13C-PCB-15	6.68e+07	1.62 y	23:39	1.02	93.2		2.50				93.2
PCB-19	1.59e+07	1.10 y	22:03	1.27	54.5		2.50	-	-	*	
13C-PCB-19	2.29e+07	1.13 y	22:02	0.42	77.5		2.50				77.5
13C-PCB-9	7.05e+07	1.64 y	19:49	-	96.5		2.50				
PCB-37	3.25e+07	1.05 y	30:18	1.14	53.4		2.50	-	-	*	
13C-PCB-37	5.37e+07	1.08 y	30:17	1.64	97.0		2.50				97.0
PCB-54	5.41e+07	0.79 y	25:34	1.36	99.8		2.50	-	-	*	
13C-PCB-54	3.98e+07	0.83 y	25:32	1.13	105		2.50				105
PCB-104	3.45e+07	1.56 y	30:00	1.18	103		2.50	-	-	*	
13C-PCB-104	2.86e+07	1.60 y	29:59	0.90	94.5		2.50				94.5
13C-PCB-28	6.42e+07	1.07 y	26:37	1.90	100.0		2.50				100.0
13C-PCB-52	3.37e+07	0.79 y	28:53	-	84.9		2.50				
PCB-81	6.80e+07	0.80 y	36:04	1.30	99.2		2.50	-	-	*	
13C-PCB-81	5.29e+07	0.80 y	36:03	1.63	107		2.50				107
PCB-77	6.27e+07	0.81 y	36:37	1.16	99.7		2.50	-	-	*	
13C-PCB-77	5.45e+07	0.80 y	36:37	1.71	105		2.50				105
PCB-155	3.46e+07	1.31 y	34:09	1.22	103		2.50	-	-	*	
13C-PCB-155	2.74e+07	1.35 y	34:08	0.99	91.9		2.50				91.9
13C-PCB-111	3.81e+07	1.64 y	36:12	1.27	99.3		2.50				99.3
13C-PCB-101	3.02e+07	1.65 y	34:35	-	86.2		2.50				
PCB-123	5.40e+07	1.57 y	38:16	1.00	113		2.50	-	-	*	
13C-PCB-123	4.81e+07	1.59 y	38:14	1.29	107		2.50				107
PCB-118	1.19e+08	1.56 y	38:27	1.07	215		2.50	-	-	*	
13C-PCB-118	5.22e+07	1.60 y	38:26	1.39	108		2.50				108
PCB-114	6.18e+07	1.56 y	39:04	1.08	114		2.50	-	-	*	
13C-PCB-114	5.02e+07	1.62 y	39:02	1.37	106		2.50				106
PCB-105	6.17e+07	1.55 y	39:53	1.15	108		2.50	-	-	*	
13C-PCB-105	4.98e+07	1.59 y	39:51	1.37	105		2.50				105
PCB-126	5.87e+07	1.60 y	41:60	1.07	112		2.50	-	-	*	
13C-PCB-126	4.87e+07	1.60 y	41:58	1.35	104		2.50				104
PCB-167	5.03e+07	1.27 y	43:22	1.23	102		2.50	-	-	*	
13C-PCB-167	4.00e+07	1.31 y	43:20	1.14	101		2.50				101
PCB-156	5.19e+07	1.29 y	44:34	1.29	102		2.50	-	-	*	
13C-PCB-156	3.95e+07	1.32 y	44:34	1.12	101		2.50				101
PCB-157	5.11e+07	1.28 y	44:51	1.24	101		2.50	-	-	*	
13C-PCB-157	4.05e+07	1.30 y	44:49	1.14	102		2.50				102
PCB-169	4.80e+07	1.29 y	46:43	1.20	102		2.50	-	-	*	
13C-PCB-169	3.92e+07	1.32 y	46:41	1.17	96.6		2.50				96.6
PCB-188	3.51e+07	1.09 y	39:38	1.21	107		2.50	-	-	*	
13C-PCB-188	2.70e+07	1.09 y	39:38	0.86	90.0		2.50				90.0
PCB-189	3.45e+07	1.07 y	48:23	1.21	100		2.50	-	-	*	
13C-PCB-189	2.83e+07	1.11 y	48:22	0.88	92.9		2.50				92.9
PCB-202	3.46e+07	0.95 y	44:46	1.16	164		2.50	-	-	*	
13C-PCB-202	1.82e+07	0.93 y	44:44	0.68	77.6		2.50				77.6
13C-PCB-178	2.06e+07	1.15 y	42:16	0.70	84.3		2.50				84.3
13C-PCB-138	3.47e+07	1.32 y	41:28	-	87.8		2.50				

FAL ID: ST10202022 Filename: 20OCT20Z Sam:15 Acquired: 20-OCT-20 22:18:04 ICal: DAILY209FAL4-10-20-202 of 2
Client ID: CS209 200406A ConCal: ST10202021 EndCal: ST10202022
Results: 13371 GC Column: DB1MS Amount: 1.000

PCB-205	7.99e+07	0.91	y	50:03	1.12	153	2.50	-	-	*	
13C-PCB-205	4.67e+07	0.90	y	50:02	1.22	98.2	2.50				98.2
PCB-208	6.71e+07	1.38	y	49:07	1.11	151	2.50	-	-	*	
13C-PCB-208	4.02e+07	0.82	y	49:05	0.98	105	2.50				105
PCB-206	5.26e+07	1.35	y	51:14	1.16	151	2.50	-	-	*	
13C-PCB-206	3.00e+07	0.82	y	51:14	0.75	103	2.50				103
PCB-209	5.64e+07	1.20	y	52:26	1.22	152	2.50	-	-	*	
13C-PCB-209	3.04e+07	1.21	y	52:24	0.80	97.9	2.50				97.9
13C-PCB-194	3.89e+07	0.89	y	49:46	-	93.3	2.50				

Analyst: _____ Date: 10/21/20

Frontier Analytical Laboratory - Acquisition Log

Run Name:20OCT20Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
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20OCT20Z	4	13371-001-0001-SA	LDW-Y3-EXTRA-S010-TB	20-OCT-20 11:36:10	ST102020Z1	ST102020Z2	BS
20OCT20Z	5	13371-002-0001-SA	LDW-Y3-IN-ENR+AC-CA-S010	20-OCT-20 12:34:32	ST102020Z1	ST102020Z2	BS
20OCT20Z	6	13371-003-0001-SA	LDW-Y3-IN-ENR+AC-CB-S010	20-OCT-20 13:32:53	ST102020Z1	ST102020Z2	BS
20OCT20Z	7	13371-004-0001-SA	LDW-Y3-IN-ENR+AC-CC-S010	20-OCT-20 14:31:14	ST102020Z1	ST102020Z2	BS
20OCT20Z	8	13371-008-0001-SA	LDW-Y3-IN-ENR-CB-S010	20-OCT-20 15:29:36	ST102020Z1	ST102020Z2	BS
20OCT20Z	9	13371-009-0001-SA	LDW-Y3-IN-ENR-CC-S010	20-OCT-20 16:27:57	ST102020Z1	ST102020Z2	BS
20OCT20Z	10	13371-010-0001-SA	LDW-Y3-IN-ENR-CD-S010	20-OCT-20 17:26:18	ST102020Z1	ST102020Z2	BS
20OCT20Z	11	13371-013-0001-SA	LDW-Y3-SC-ENR+AC-CA-S010	20-OCT-20 18:24:39	ST102020Z1	ST102020Z2	BS
20OCT20Z	12	13371-014-0001-SA	LDW-Y3-SC-ENR+AC-CA-S010-LONG	20-OCT-20 19:23:00	ST102020Z1	ST102020Z2	BS
20OCT20Z	13	13371-015-0001-SA	LDW-Y3-SC-ENR+AC-CB-S010	20-OCT-20 20:21:21	ST102020Z1	ST102020Z2	BS
20OCT20Z	14	SB102020Z1	Solvent Blank	20-OCT-20 21:19:43	ST102020Z1	ST102020Z2	BS
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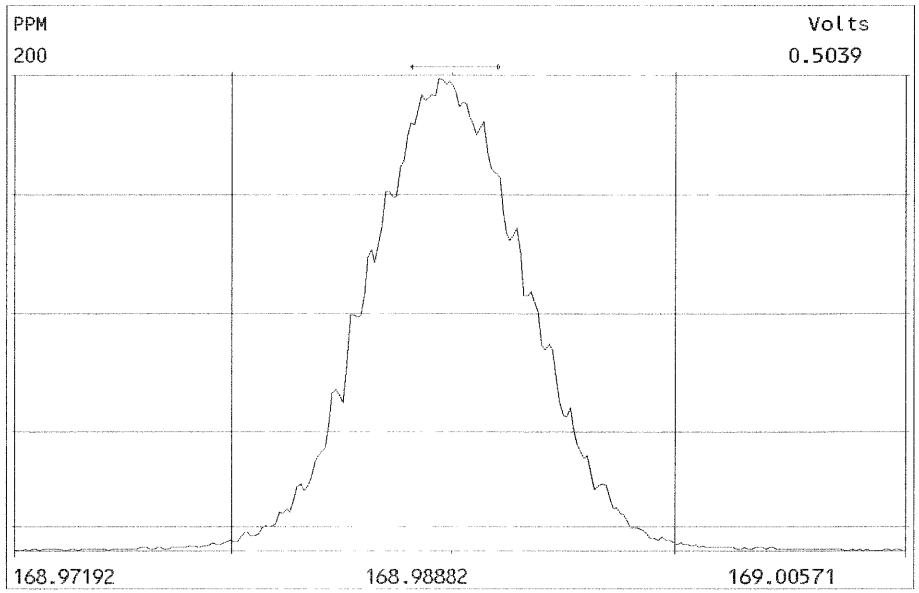
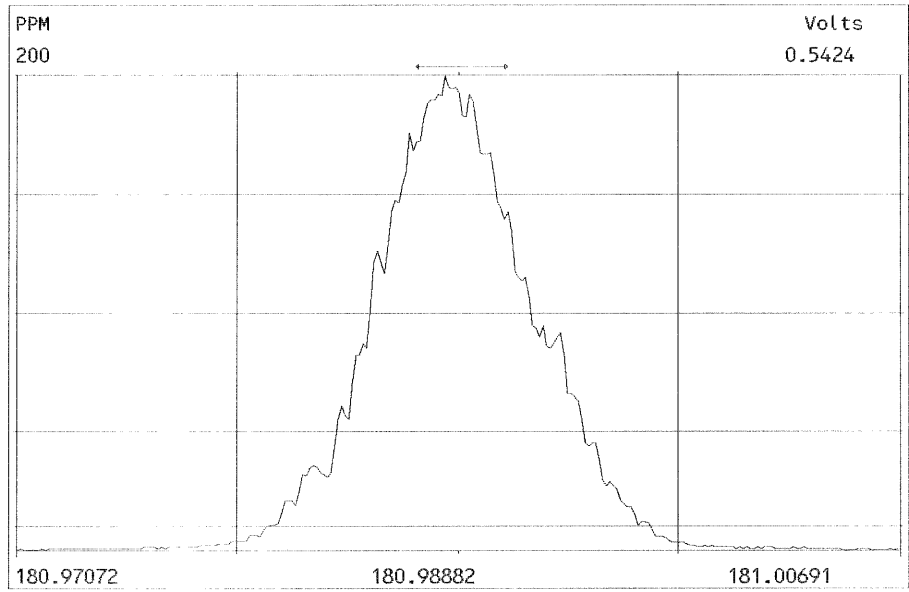
DN
10.21.2020

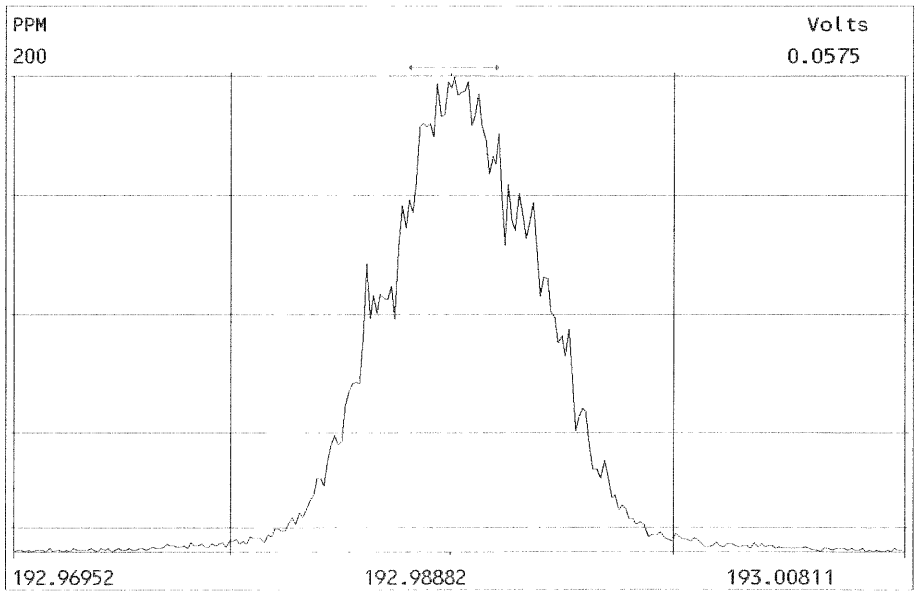
Data Backed Up:_____

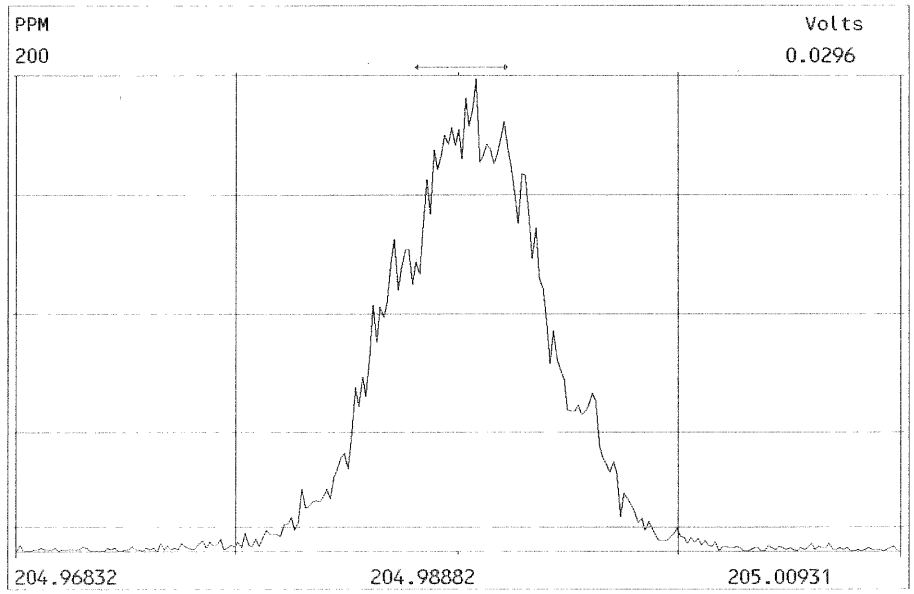
Date:_____

Peak Locate Examination:20-OCT-2020:08:35 File:20OCT20Z
Experiment:1668PCB Function:1 Reference:PFK









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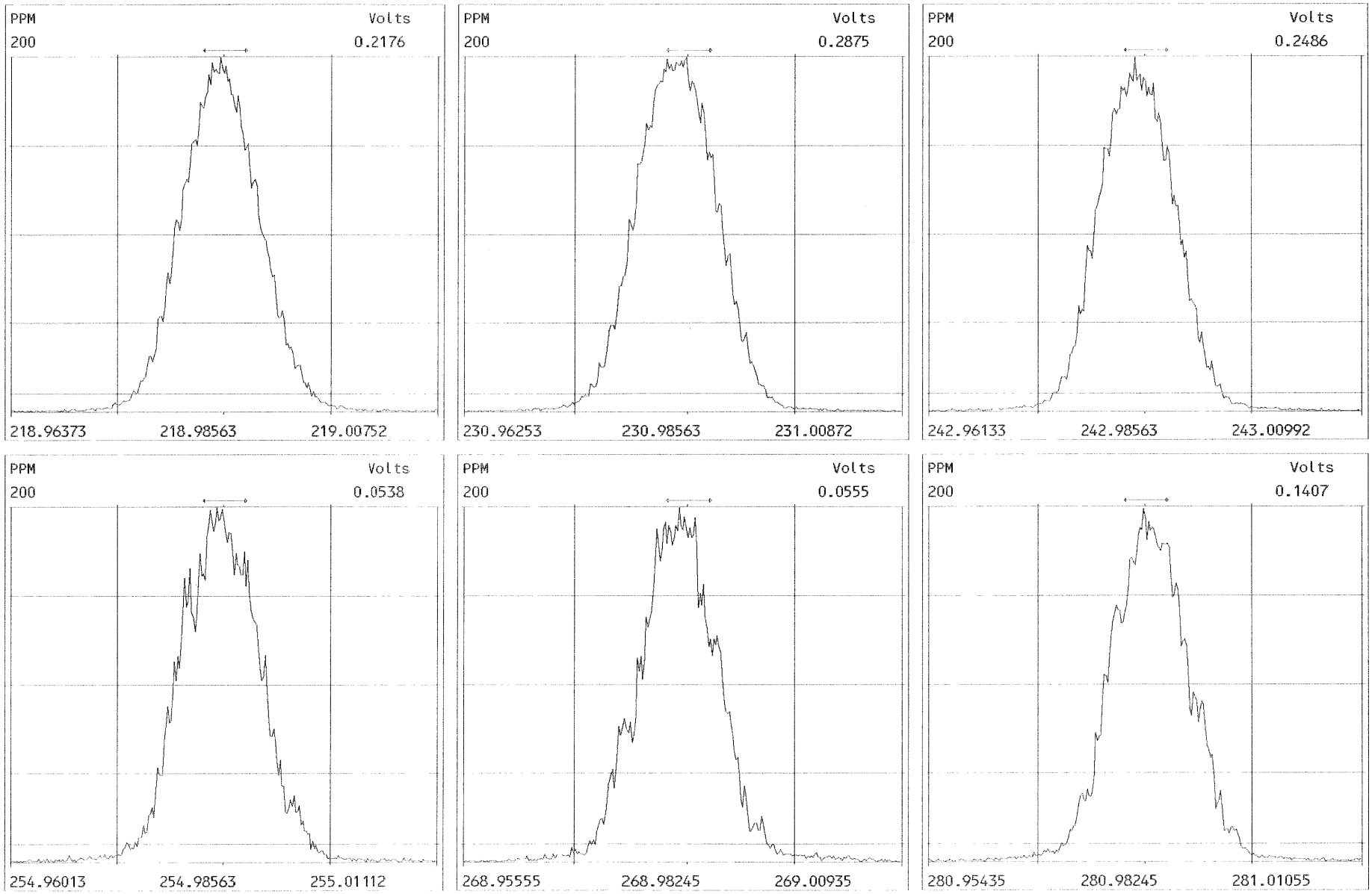
Experiment:1668PCB Function:2 Reference:PFK



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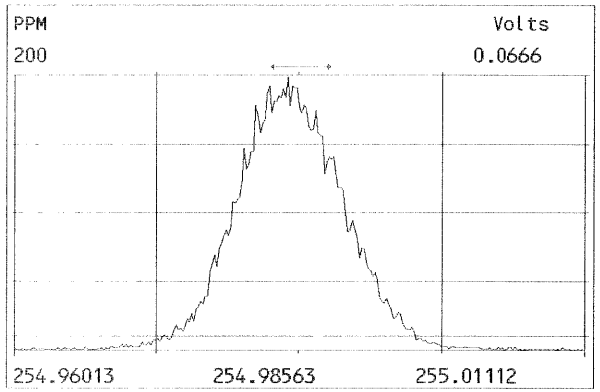
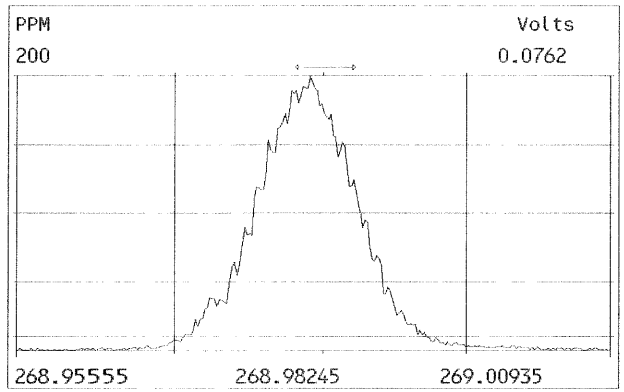
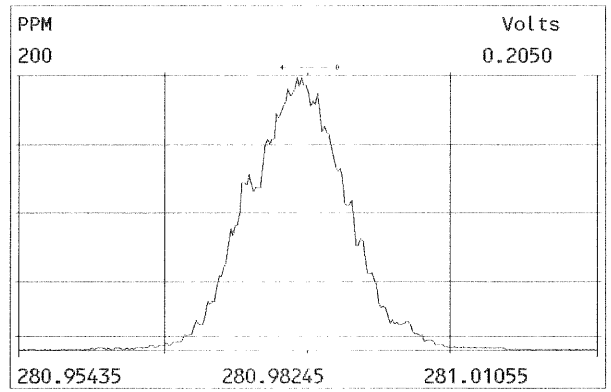
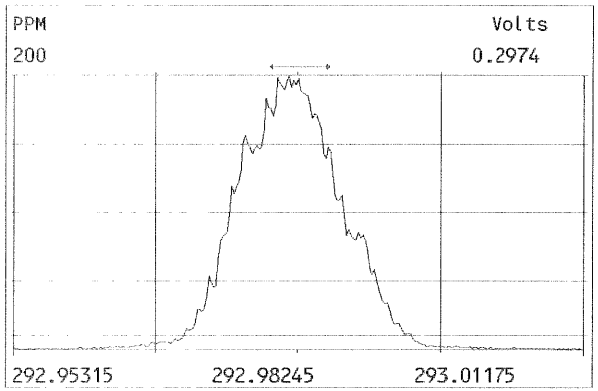
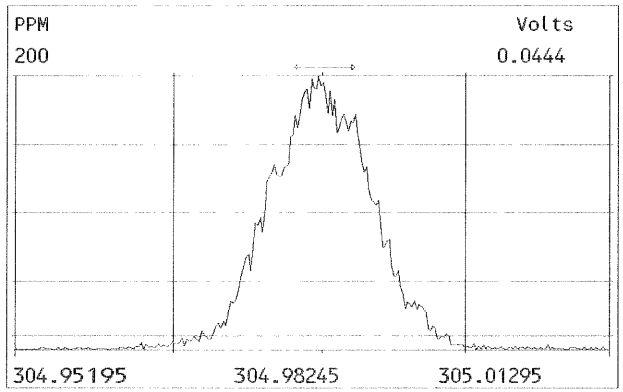
Experiment:1668PCB Function:3 Reference:PFK

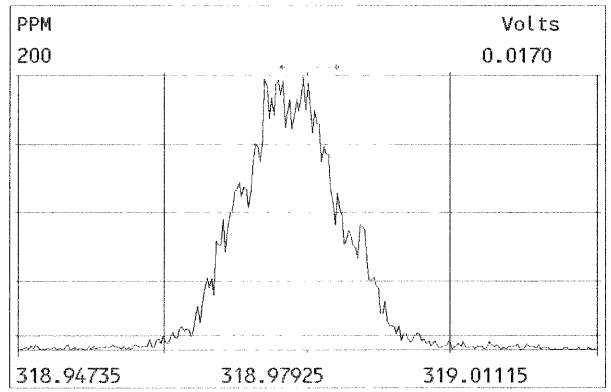


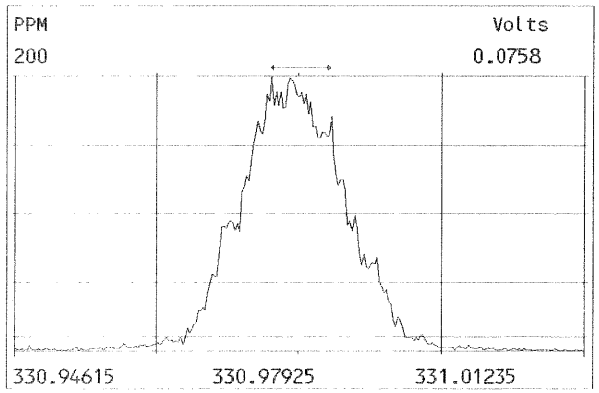


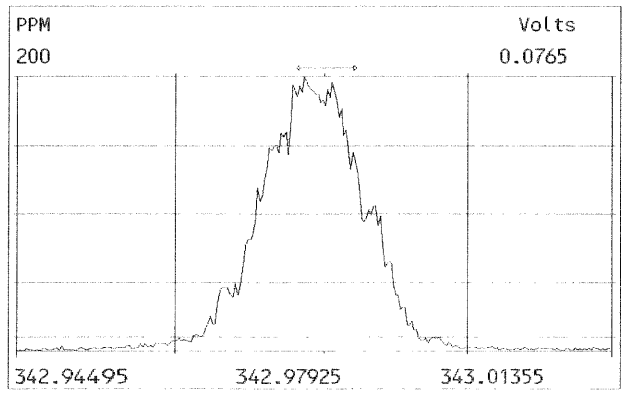












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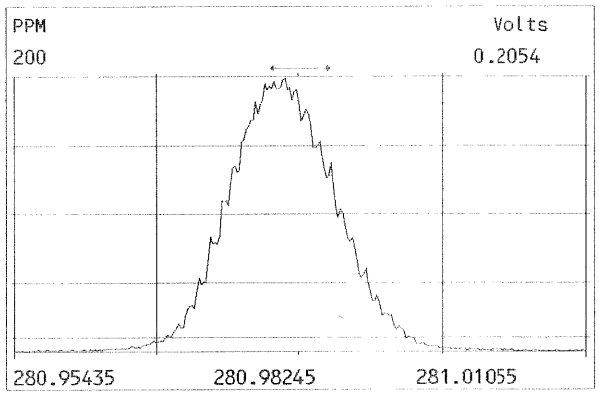
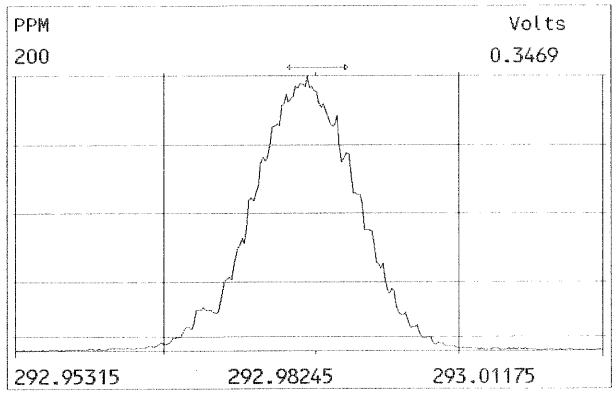
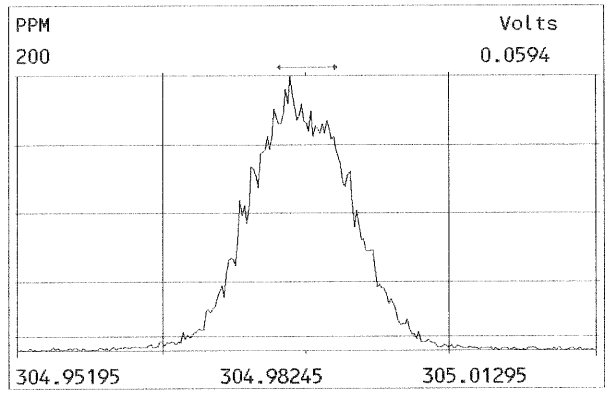
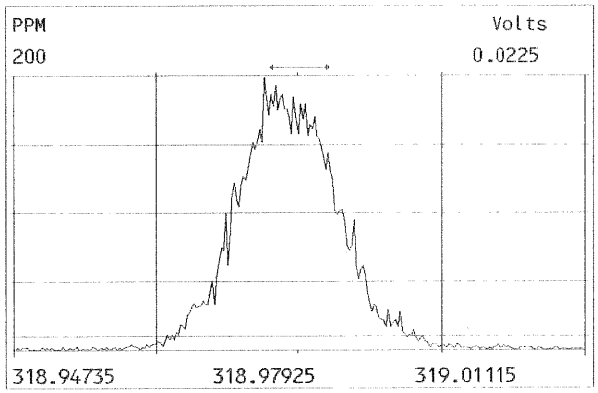
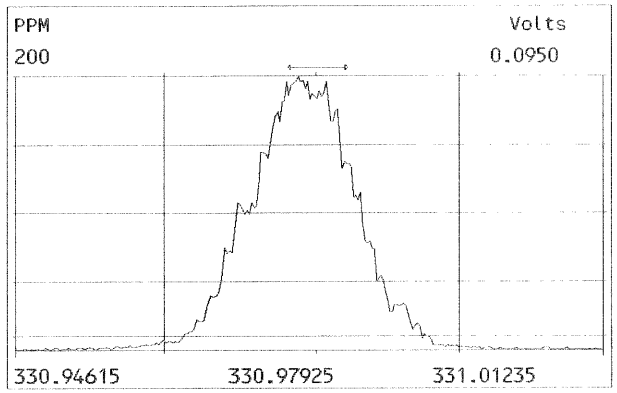
Experiment:1668PCB Function:4 Reference:PFK

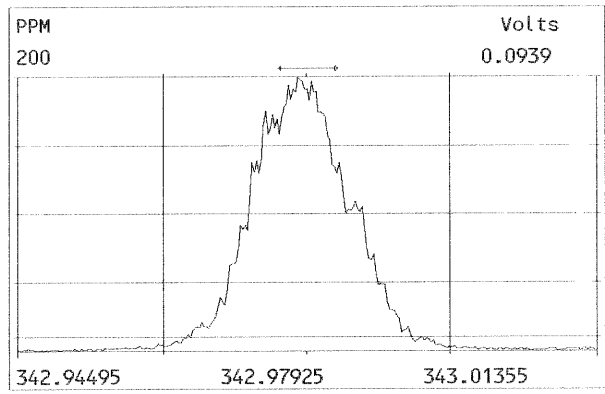


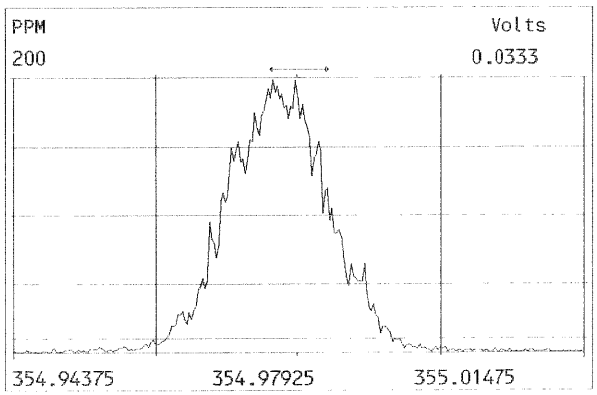


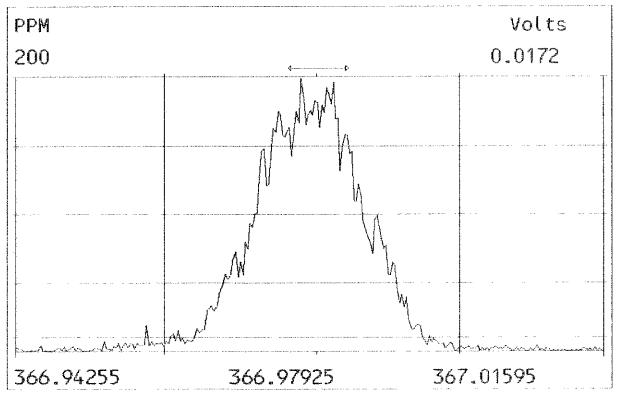


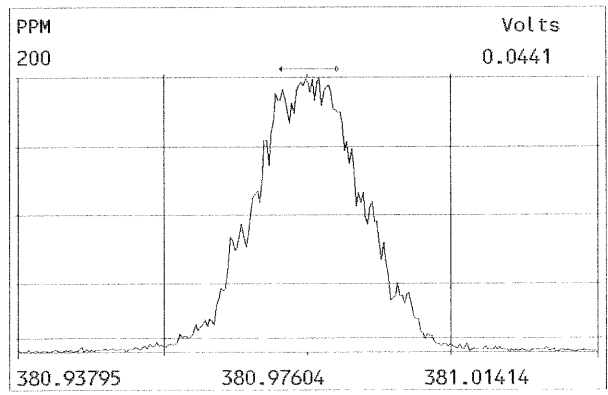




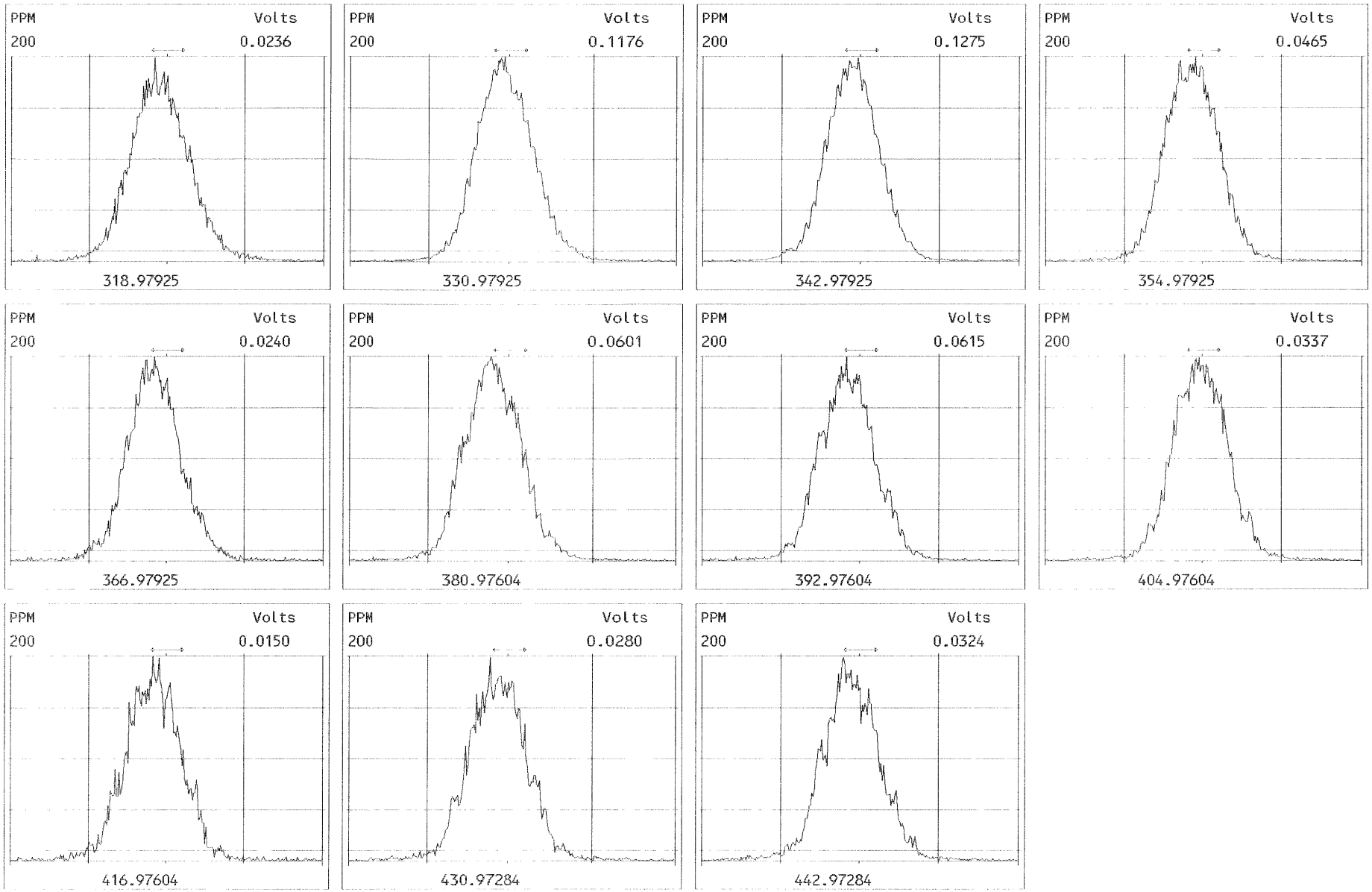








Peak Locate Examination:20-OCT-2020:08:36 File:20OCT20Z
Experiment:1668PCB Function:5 Reference:PFK



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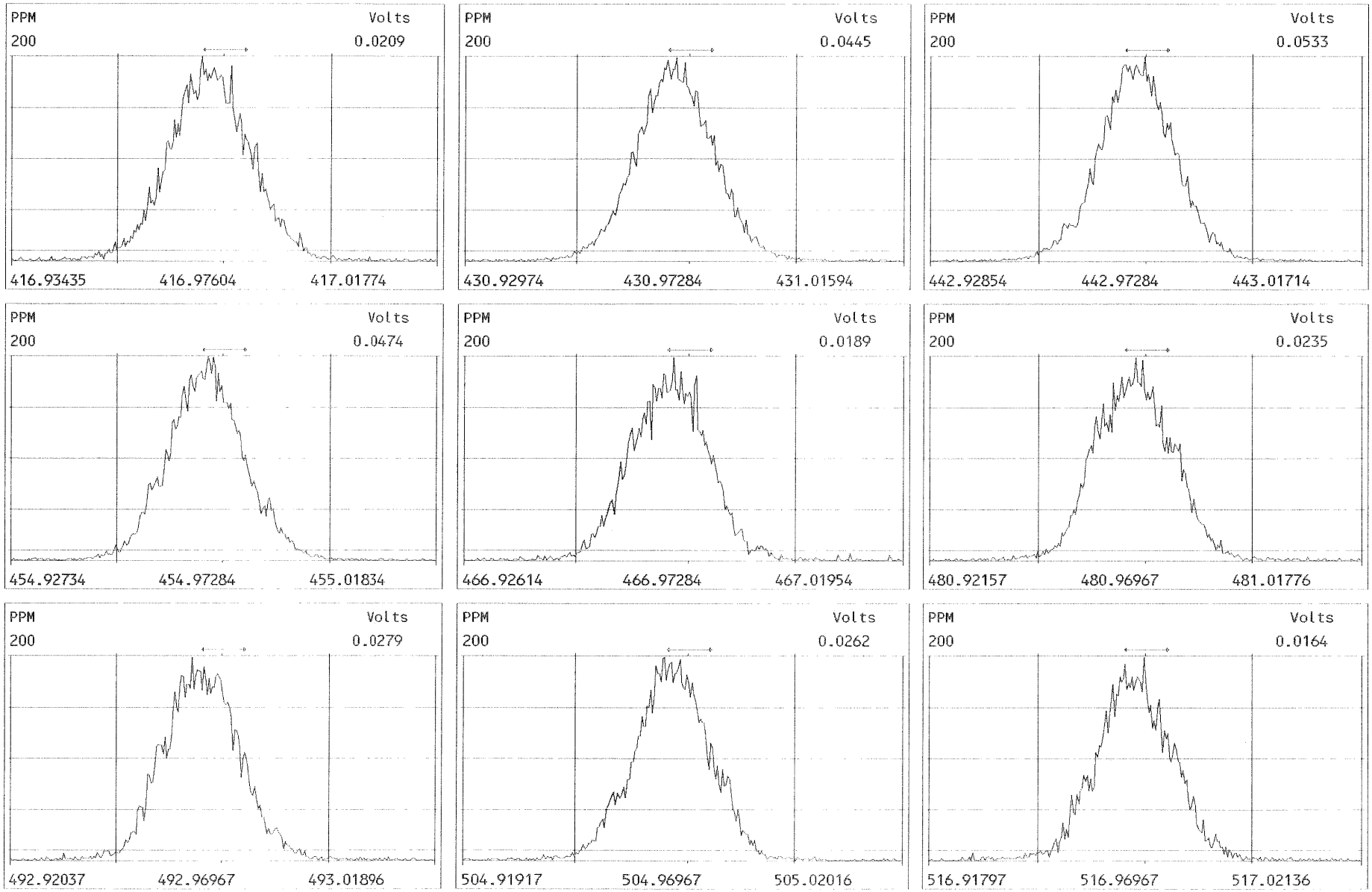
Experiment:1668PCB Function:6 Reference:PFK



Frontier Analytical Laboratory - Acquisition Log

Run Name:20OCT20Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
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20OCT20Z	3	05481-001-0001-MB	Method Blank	20-OCT-20 10:37:49	ST102020Z1	ST102020Z2	BS
20OCT20Z	4	13371-001-0001-SA	LDW-Y3-EXTRA-S010-TB	20-OCT-20 11:36:10	ST102020Z1	ST102020Z2	BS
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20OCT20Z	9	13371-009-0001-SA	LDW-Y3-IN-ENR-CC-S010	20-OCT-20 16:27:57	ST102020Z1	ST102020Z2	BS
20OCT20Z	10	13371-010-0001-SA	LDW-Y3-IN-ENR-CD-S010	20-OCT-20 17:26:18	ST102020Z1	ST102020Z2	BS
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20OCT20Z	13	13371-015-0001-SA	LDW-Y3-SC-ENR+AC-CB-S010	20-OCT-20 20:21:21	ST102020Z1	ST102020Z2	BS
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DN
10.21.2020

Data Backed Up:_____

Date:_____

File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
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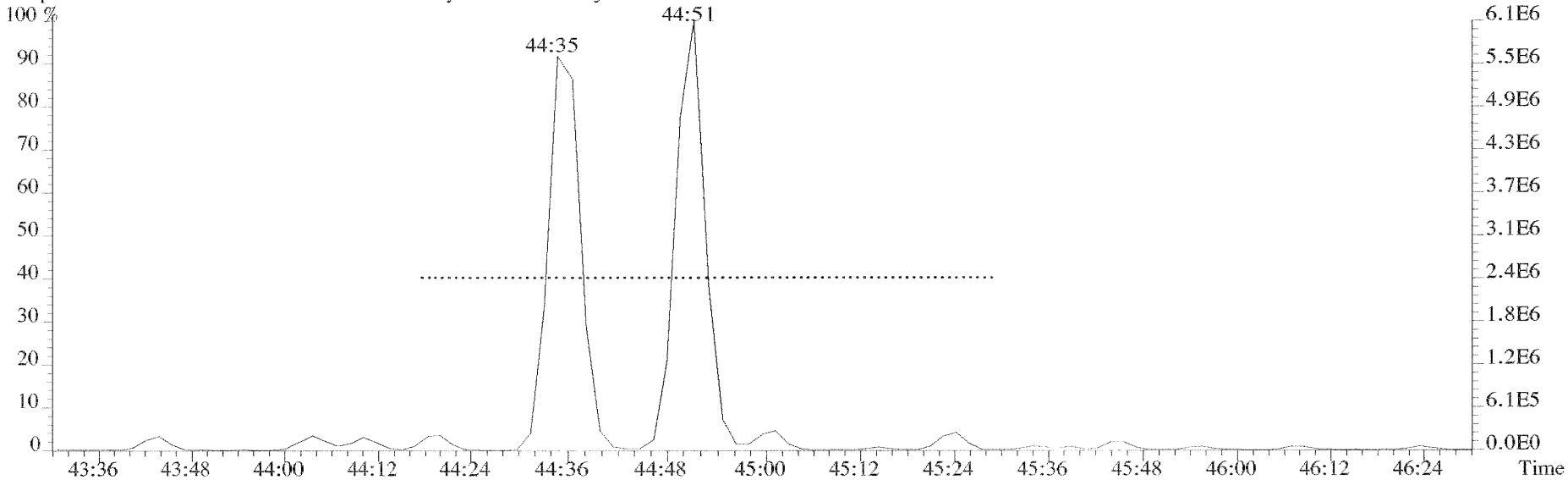

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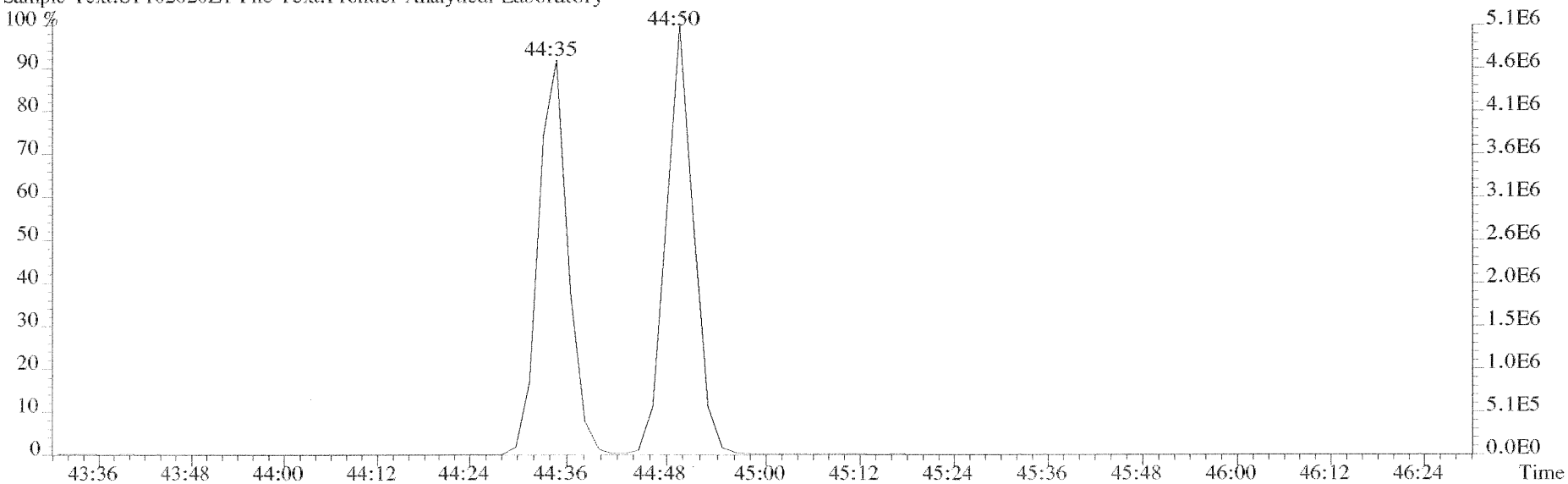
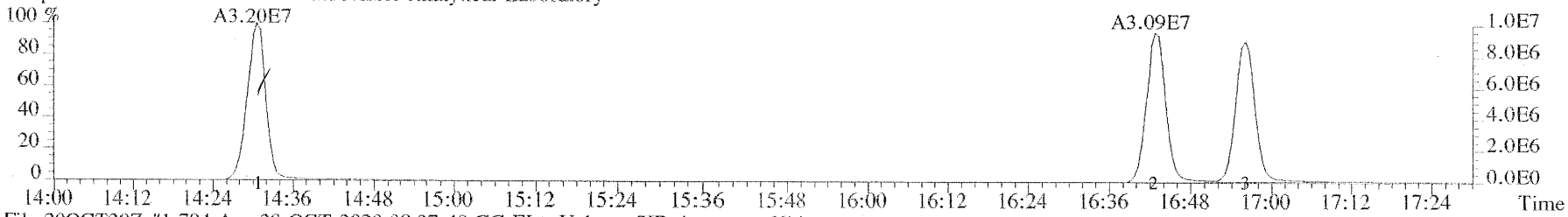
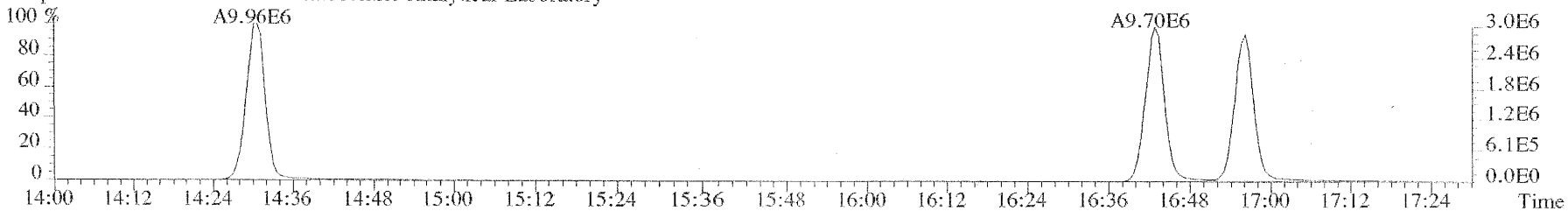
373.8788 F:5 Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



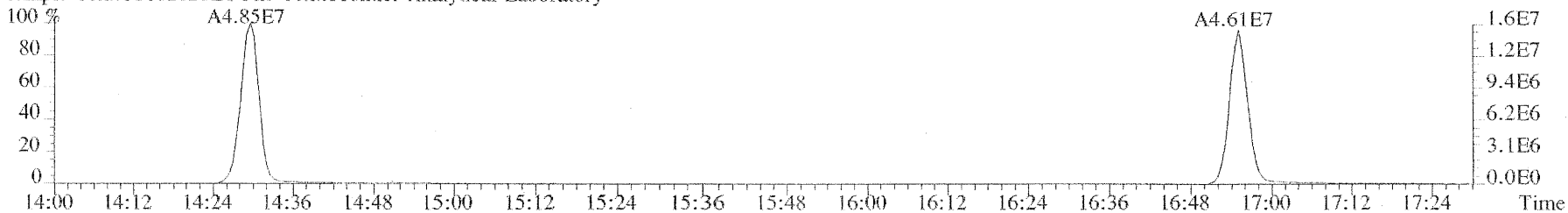
File:20OCT20Z #1-784 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



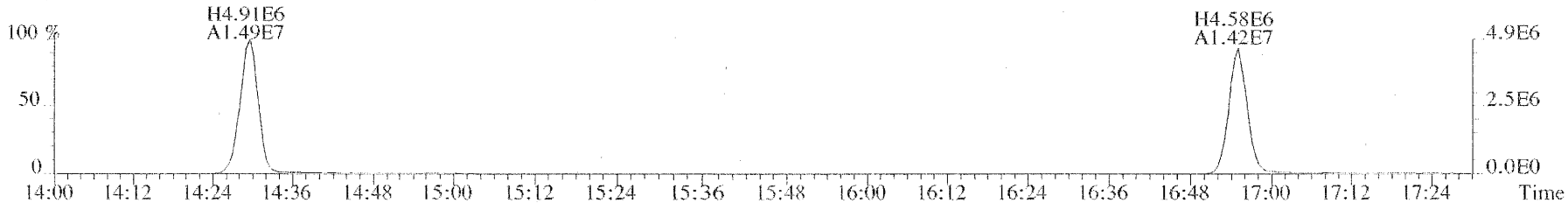
File:20OCT20Z #1-784 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



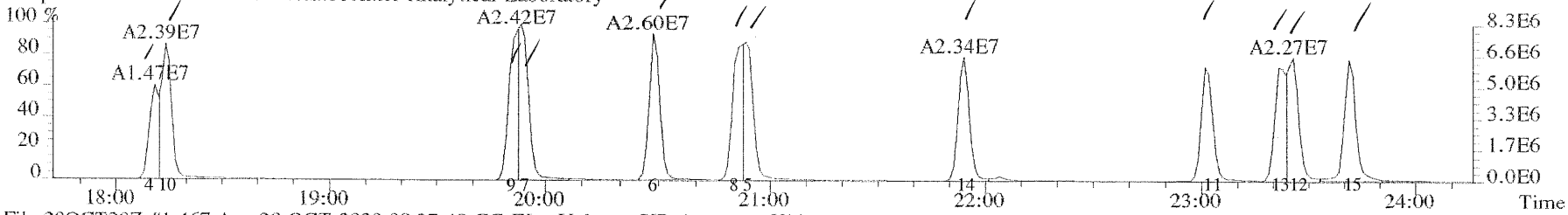
File:20OCT20Z #1-784 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



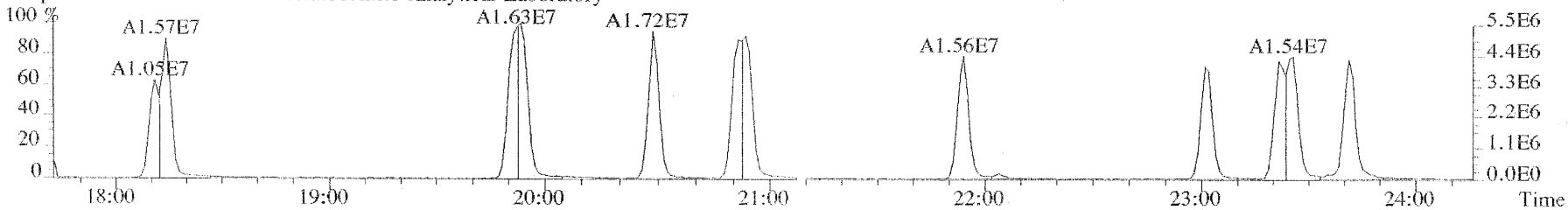
File:20OCT20Z #1-784 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



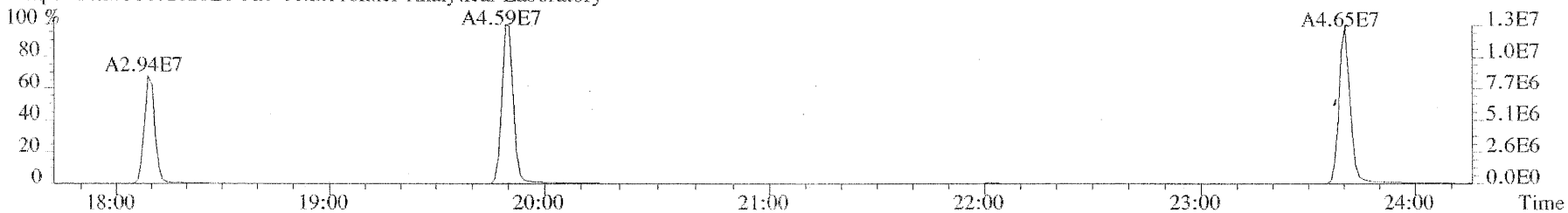
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



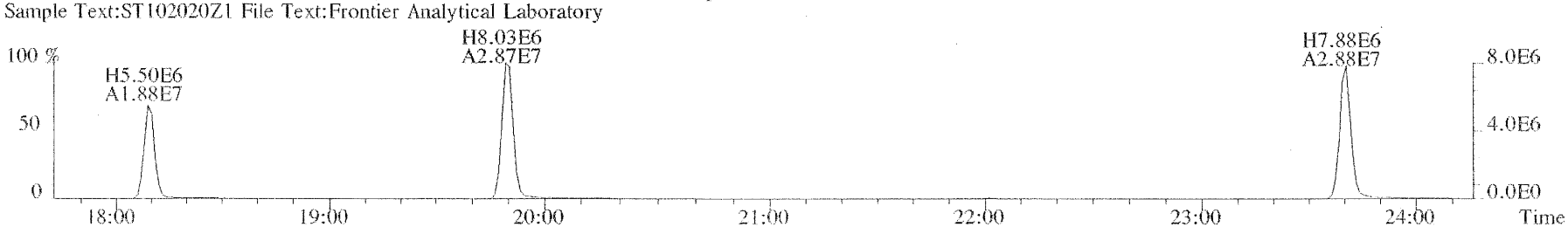
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
223.9975 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



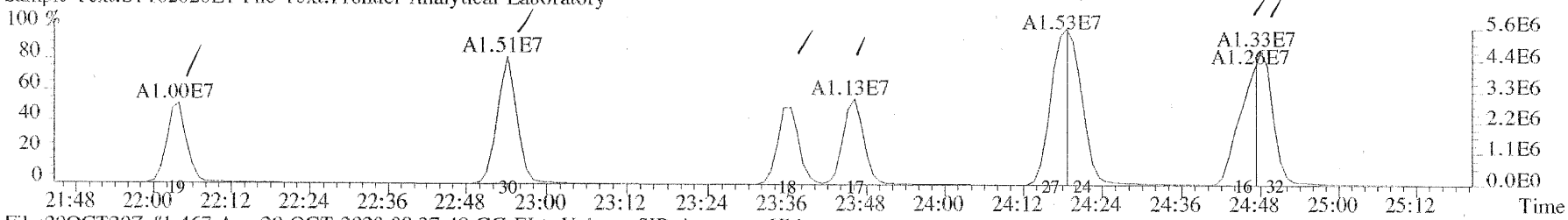
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



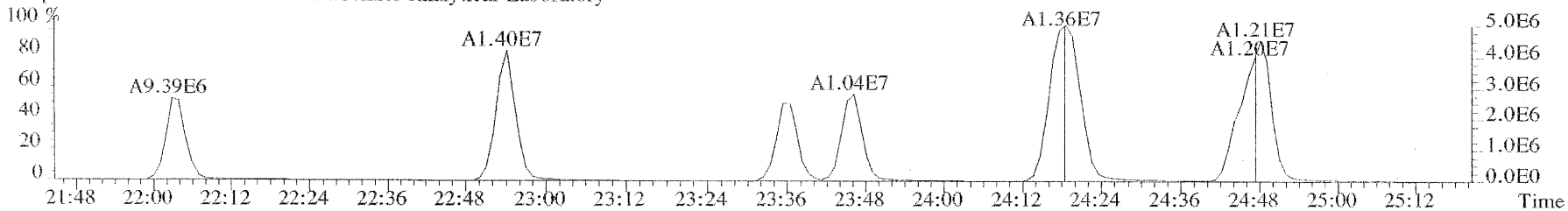
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



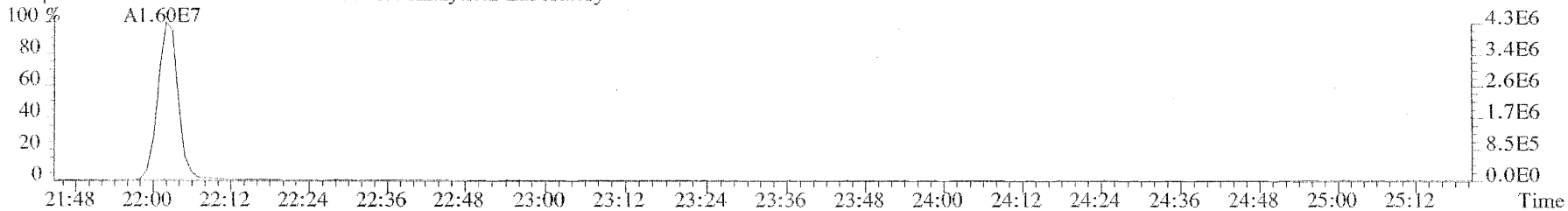
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



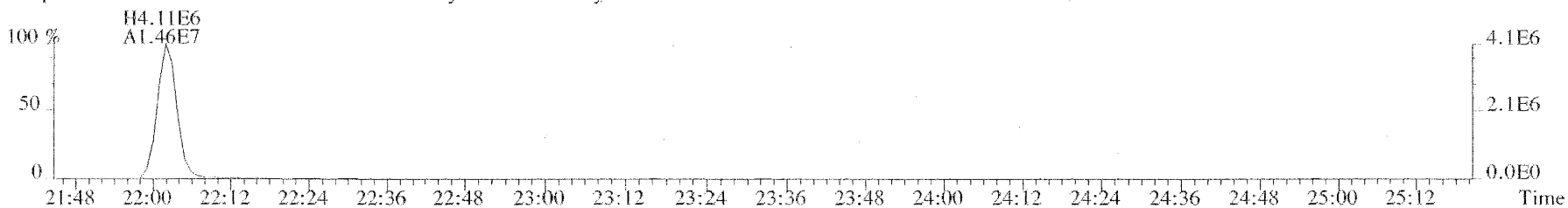
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



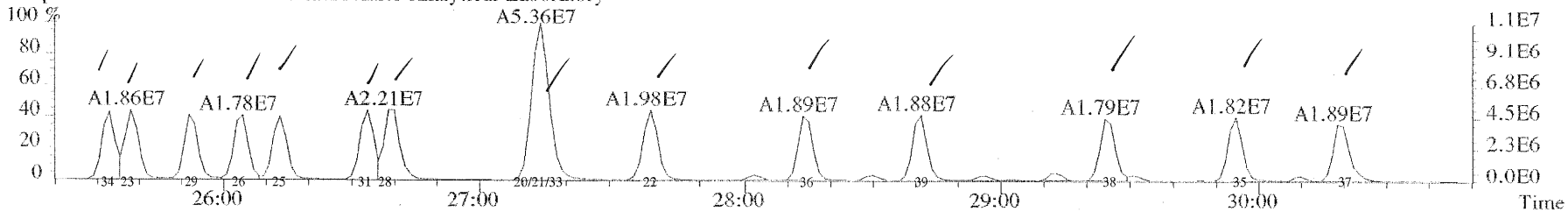
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



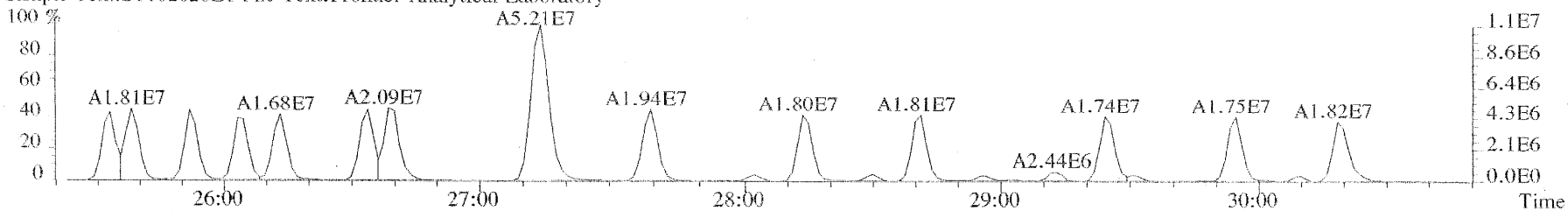
File:20OCT20Z #1-467 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



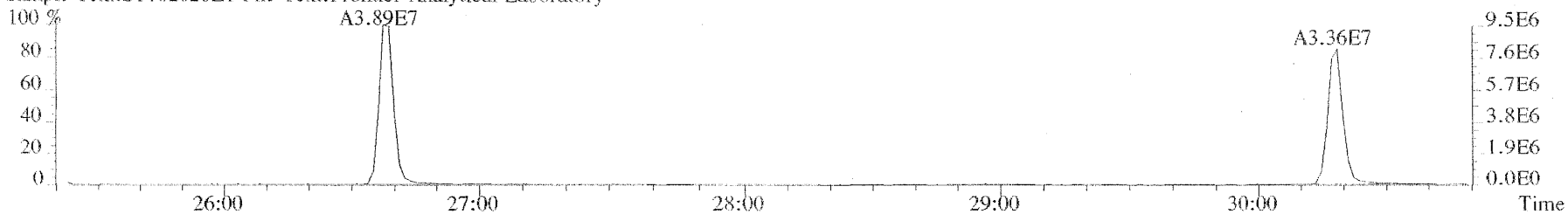
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



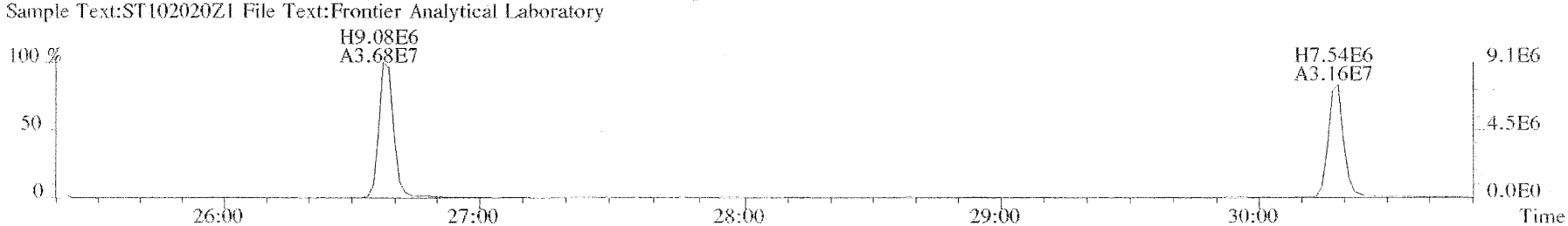
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



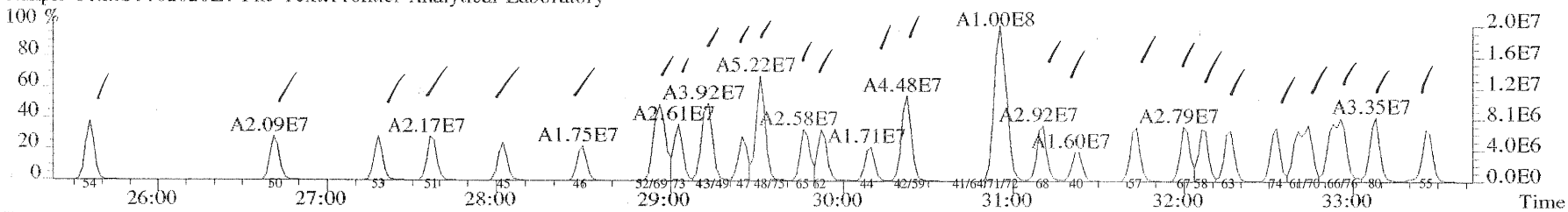
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



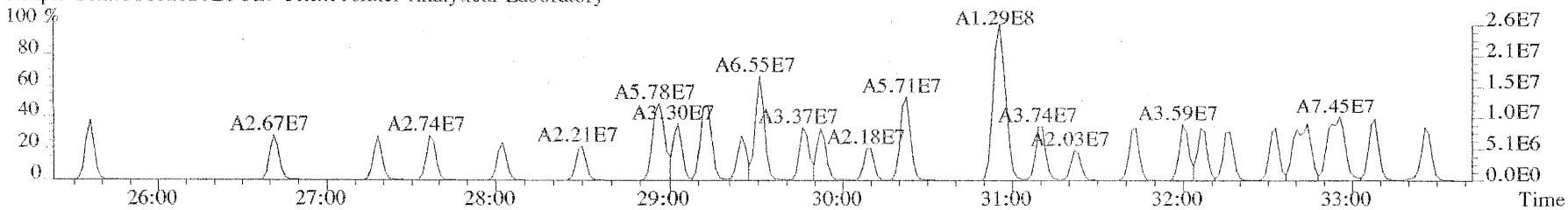
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



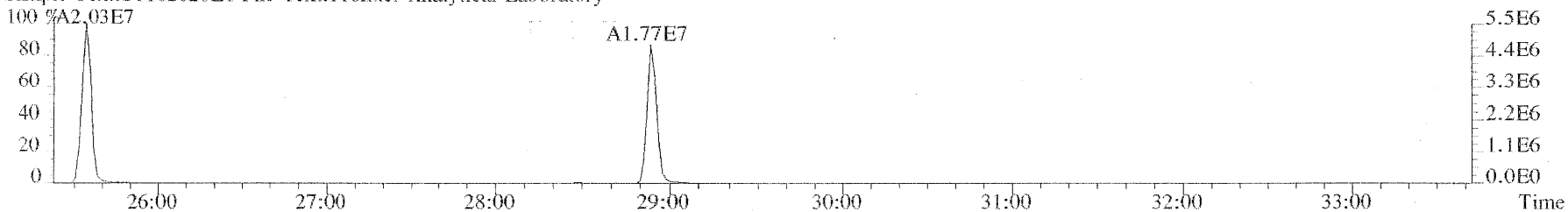
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



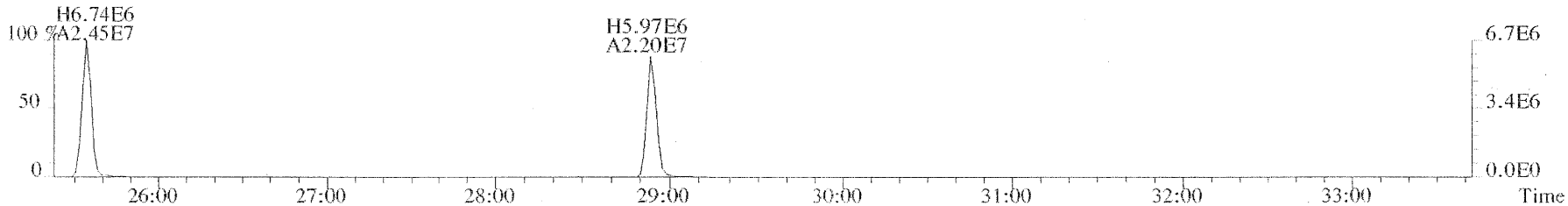
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



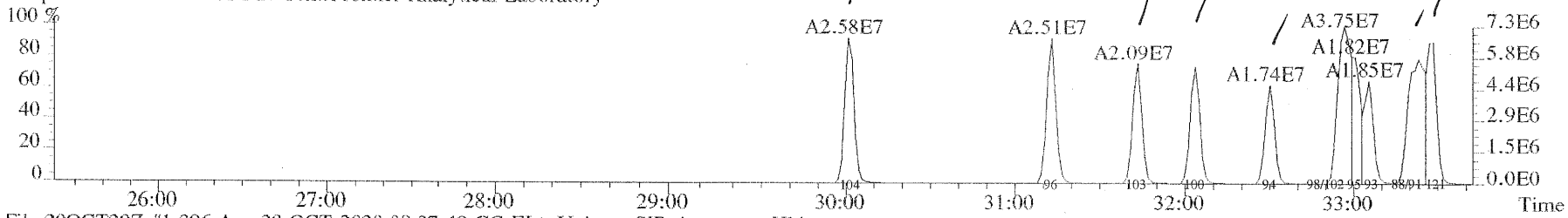
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



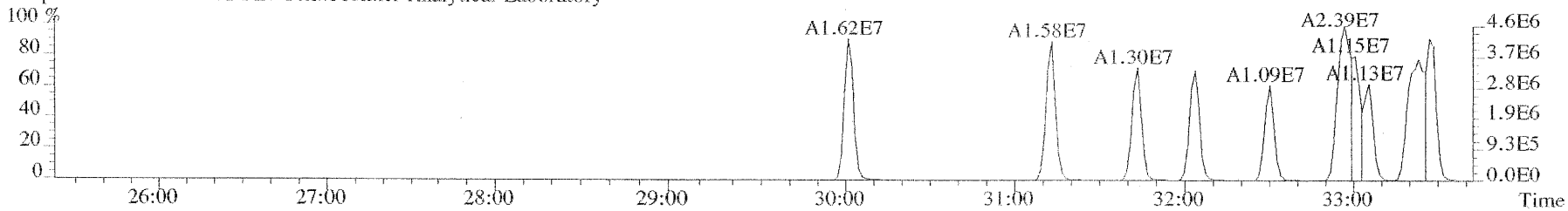
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



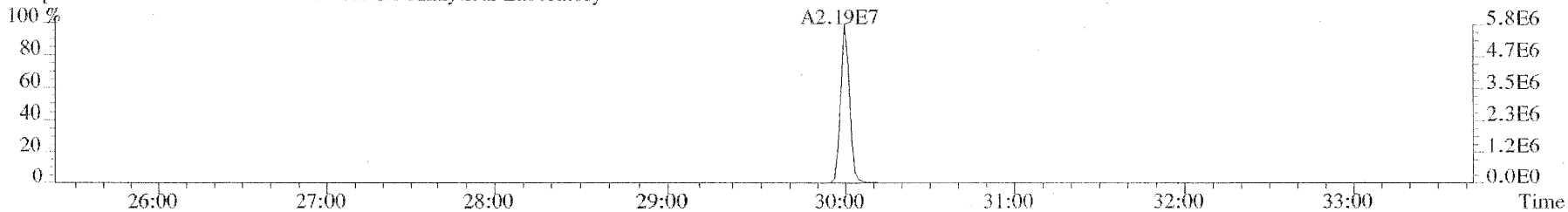
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



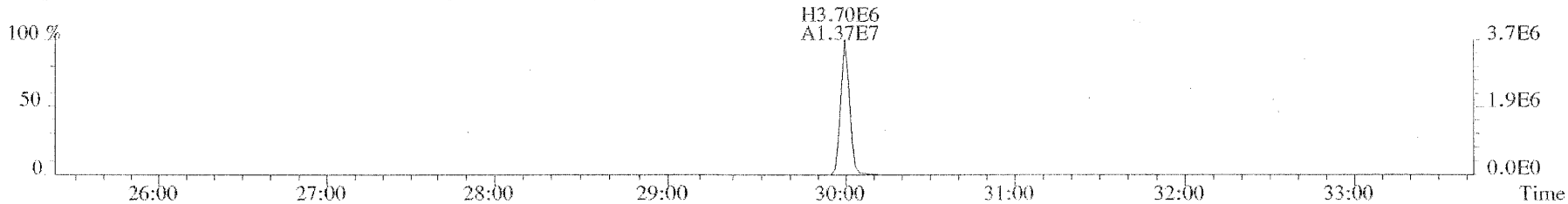
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



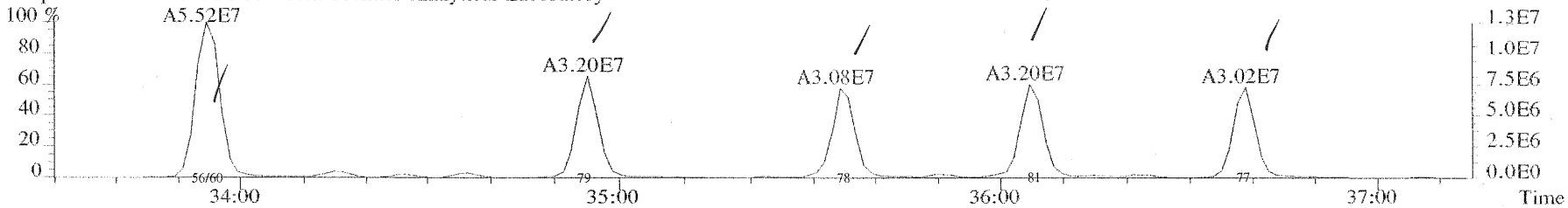
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



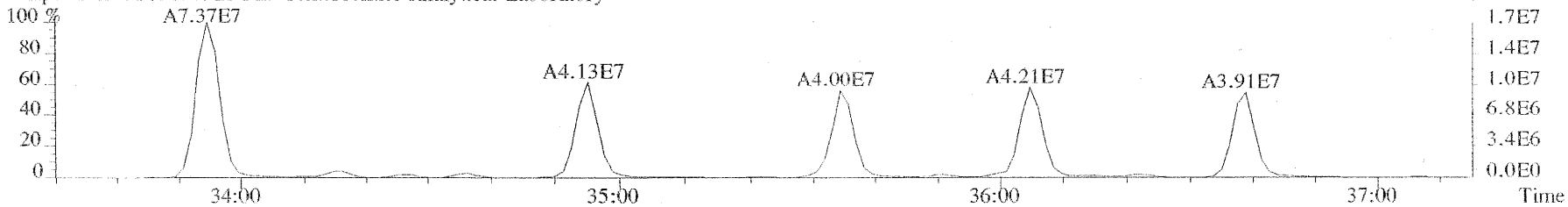
File:20OCT20Z #1-396 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



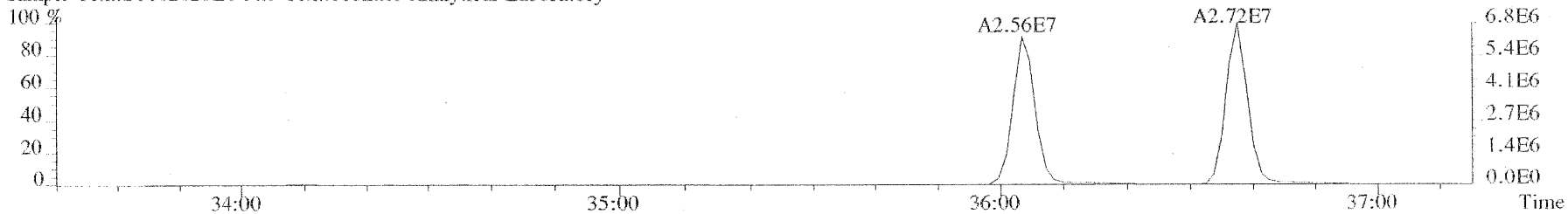
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



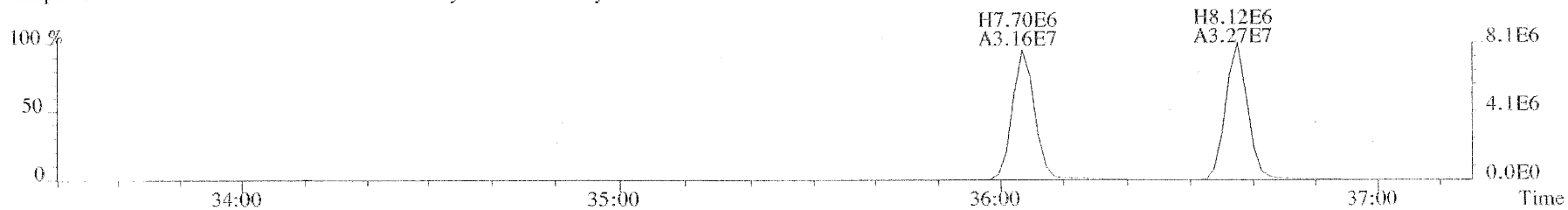
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



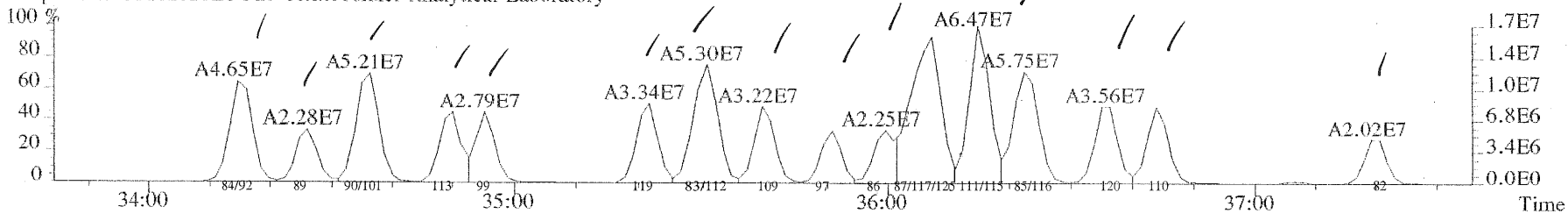
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



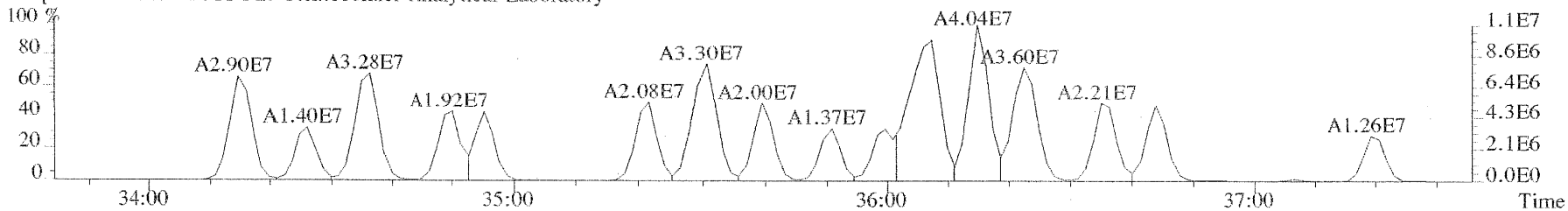
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



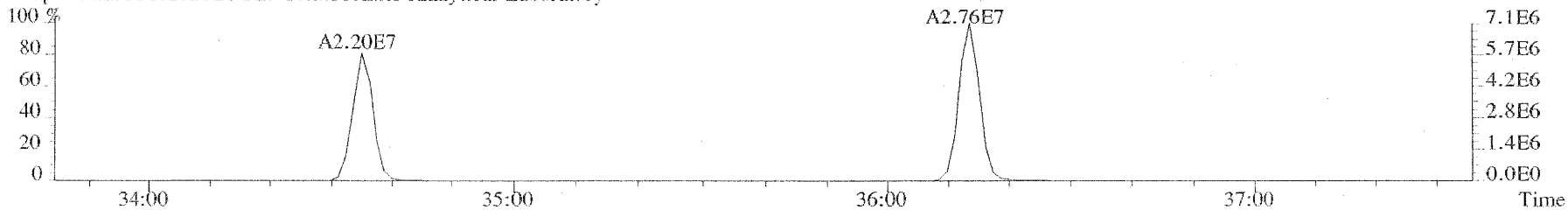
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



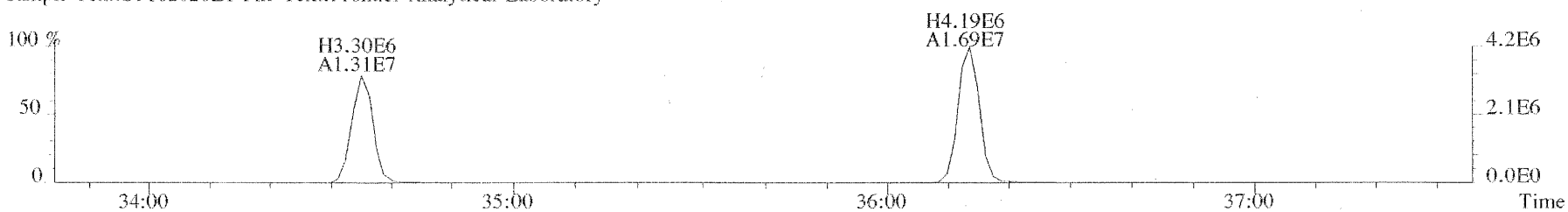
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



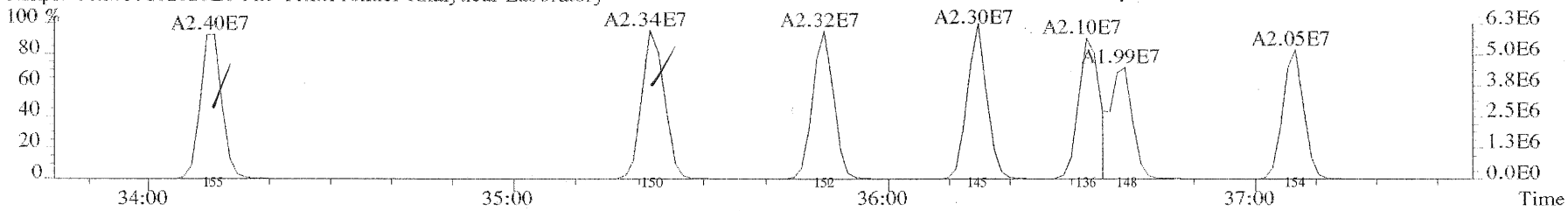
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



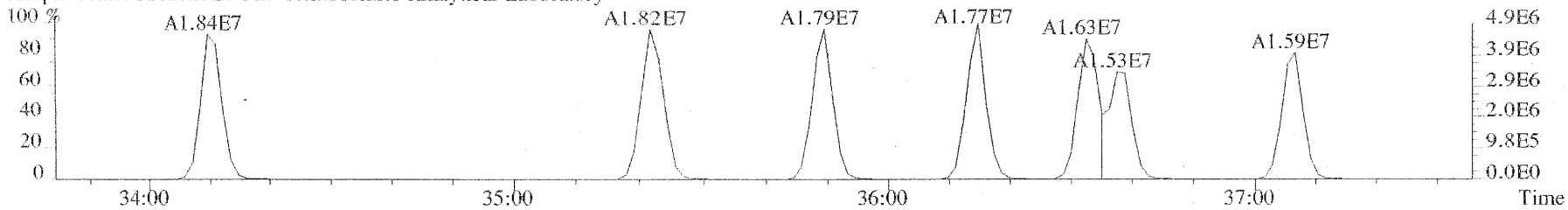
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



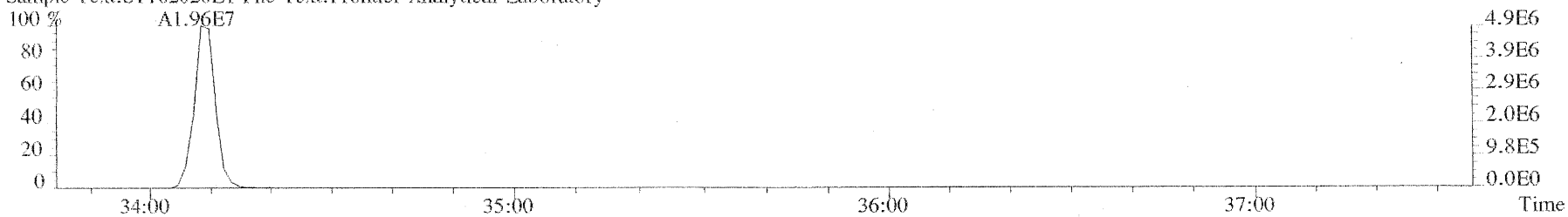
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



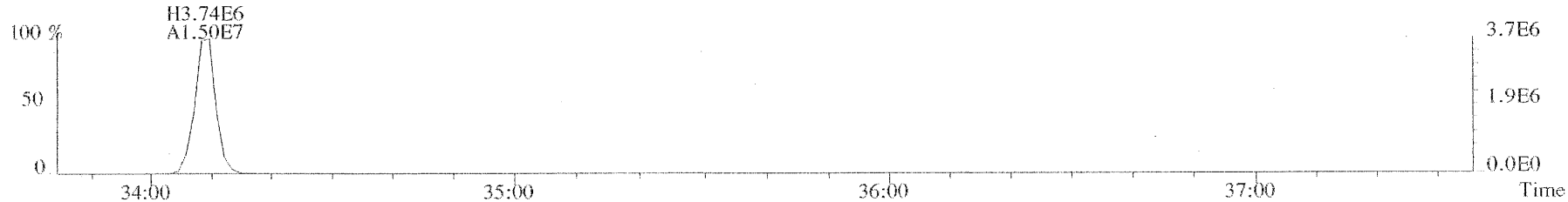
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



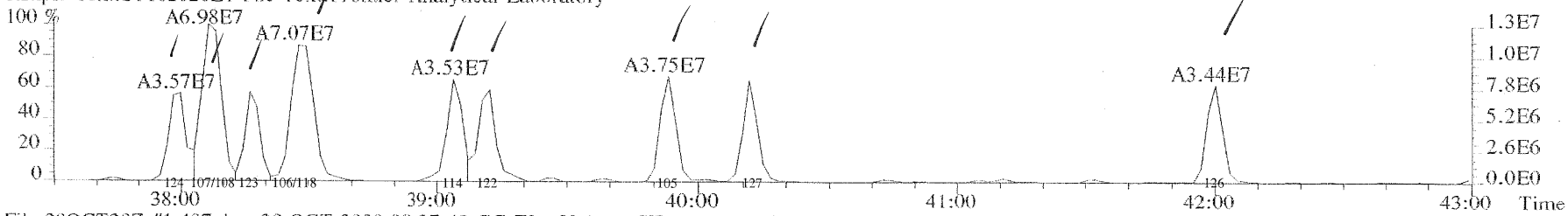
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



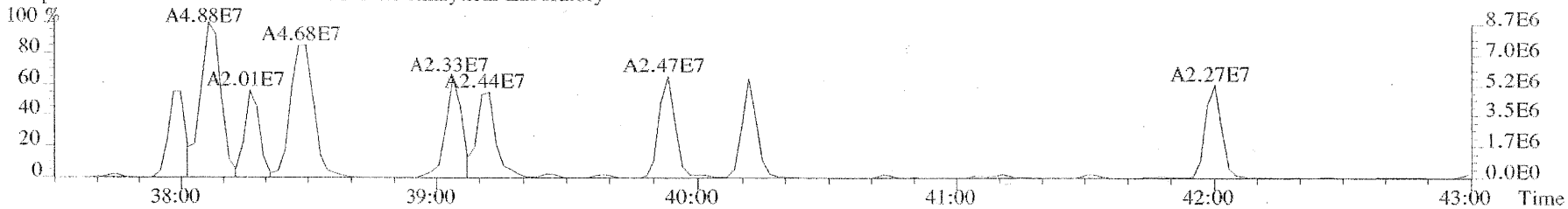
File:20OCT20Z #1-184 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



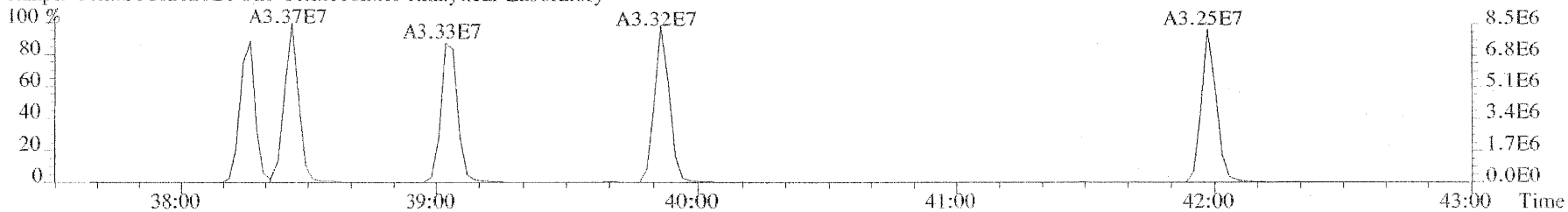
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



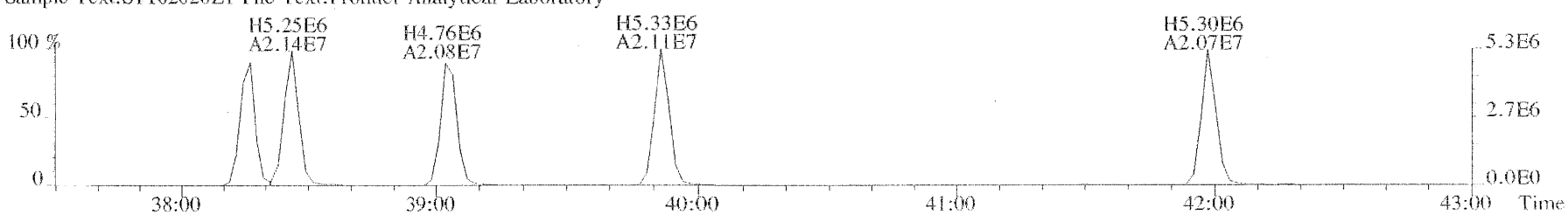
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



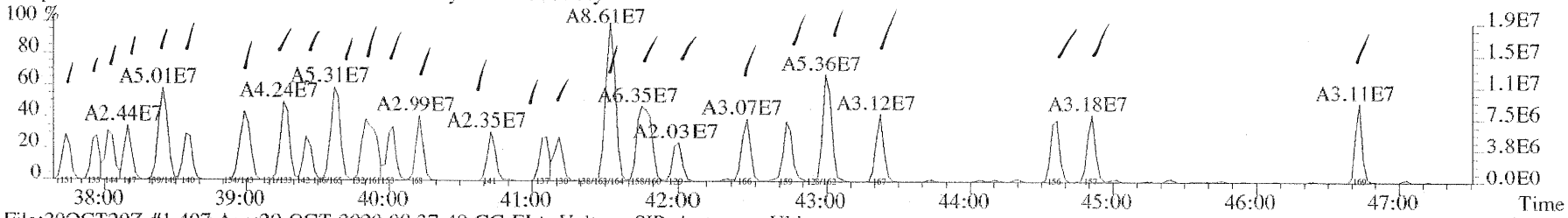
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



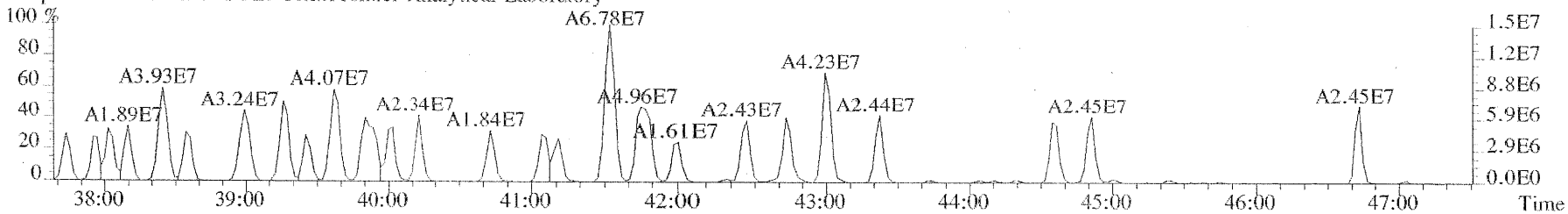
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



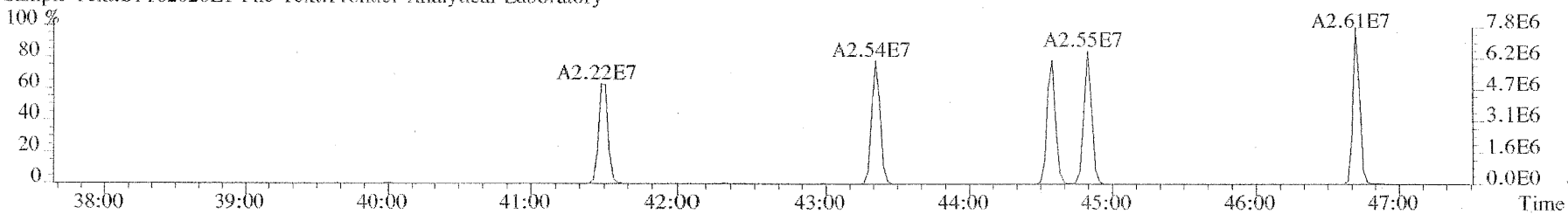
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



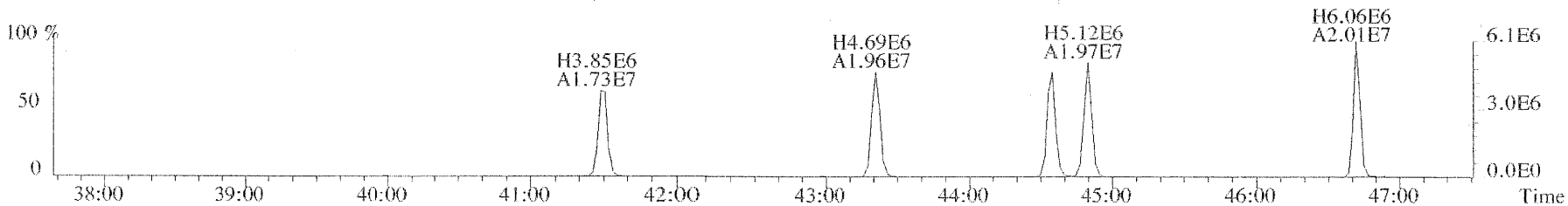
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



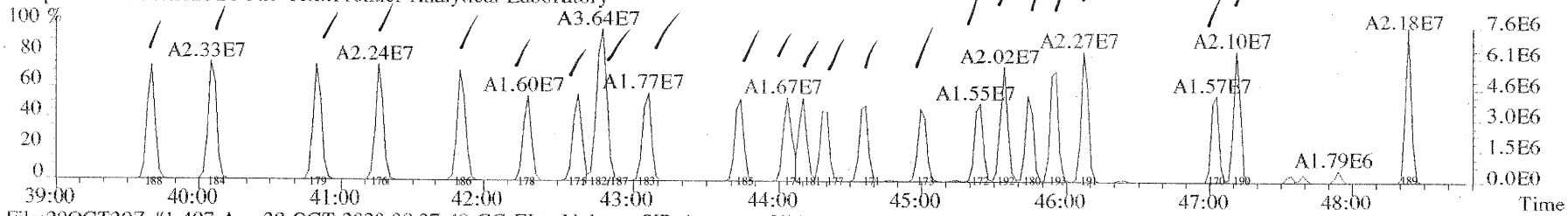
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



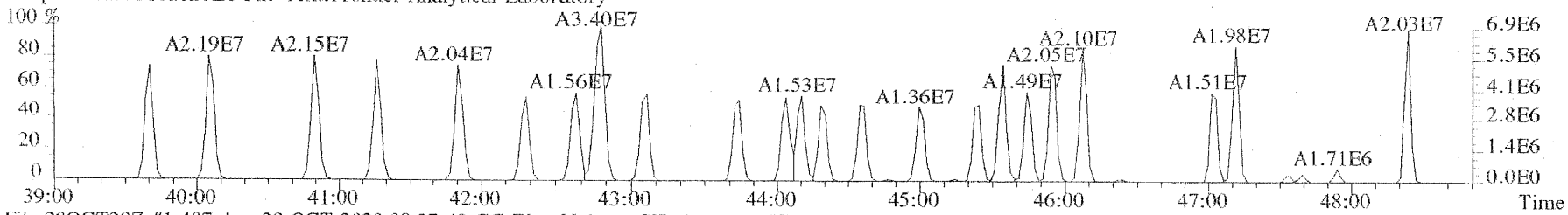
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



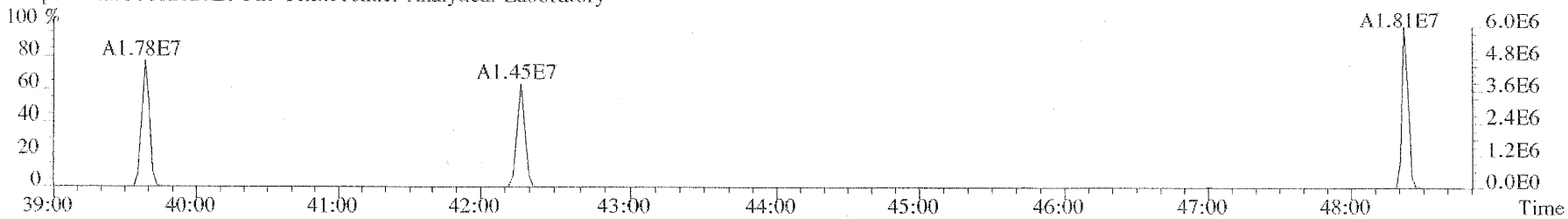
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



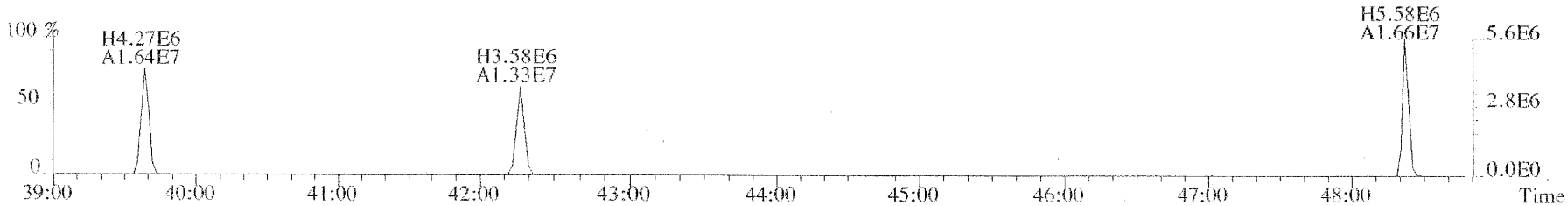
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



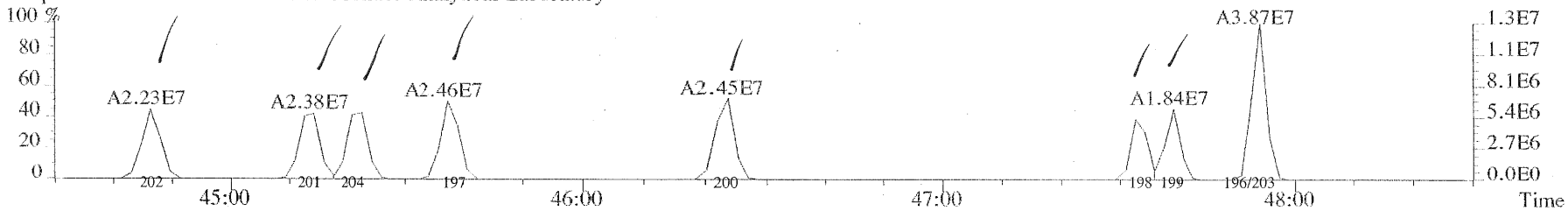
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



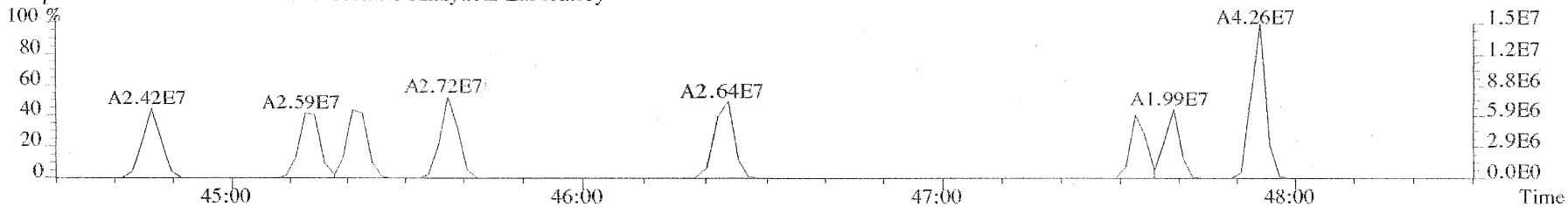
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



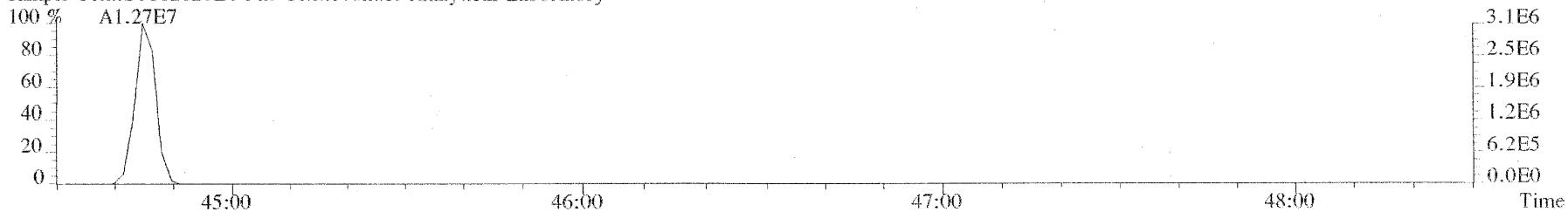
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



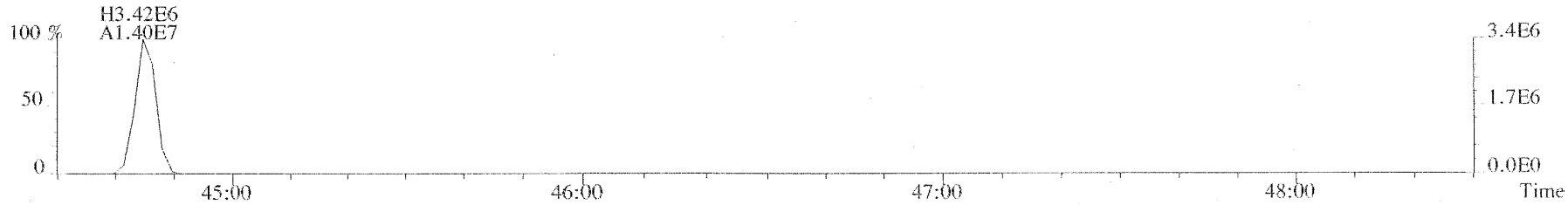
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



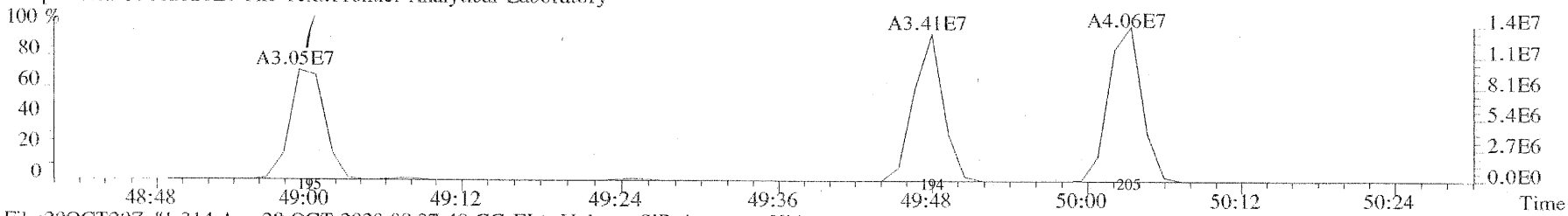
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



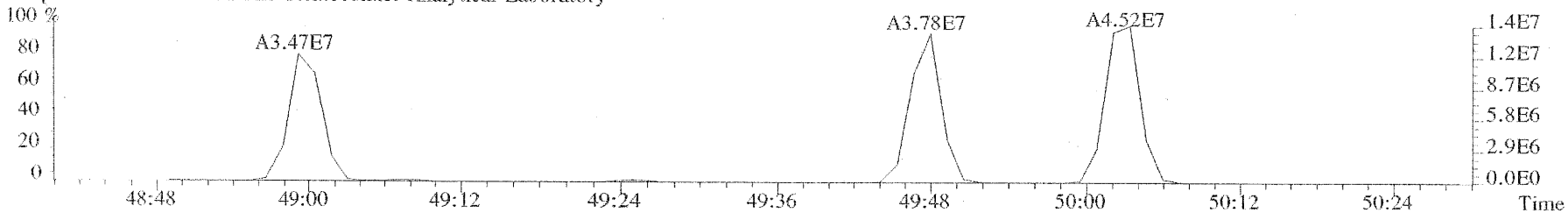
File:20OCT20Z #1-407 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



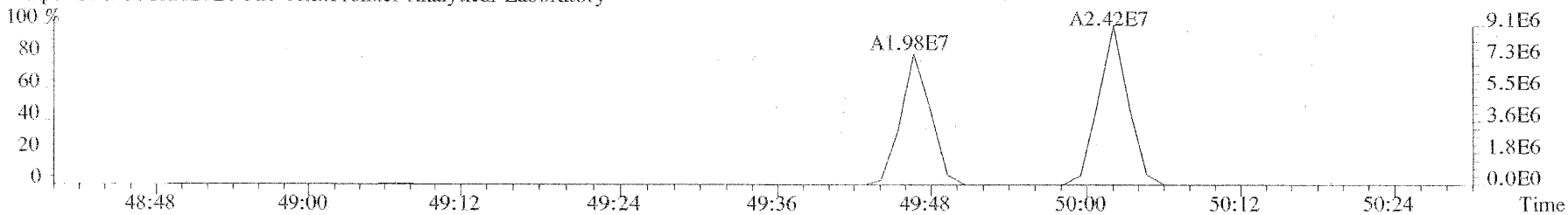
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



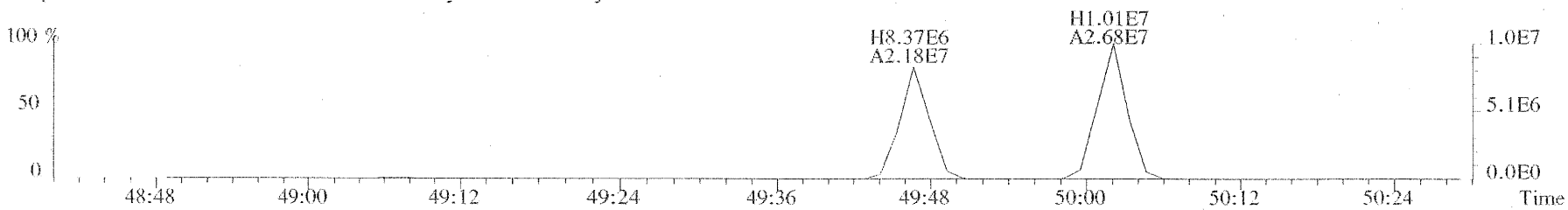
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



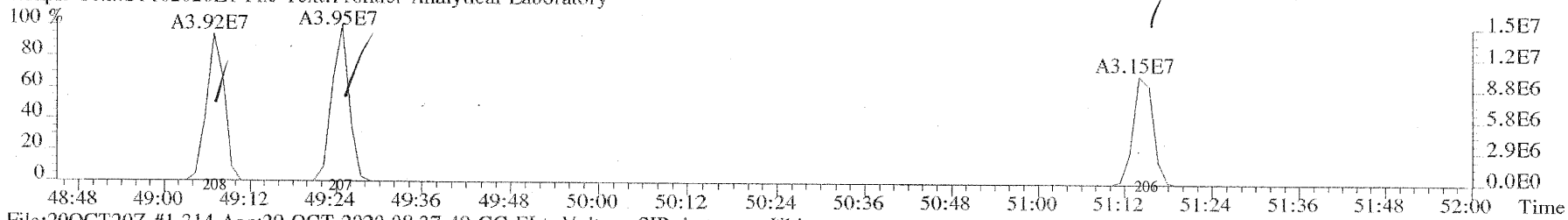
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



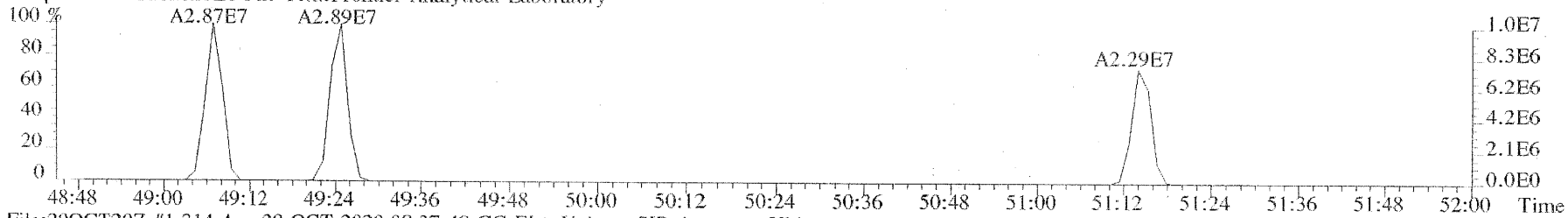
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



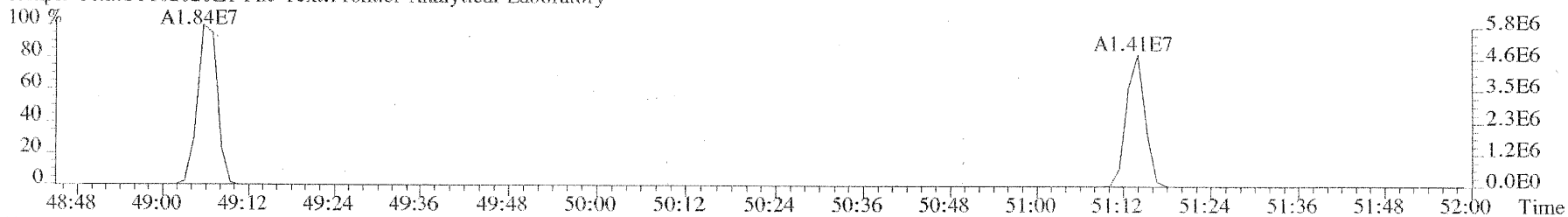
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



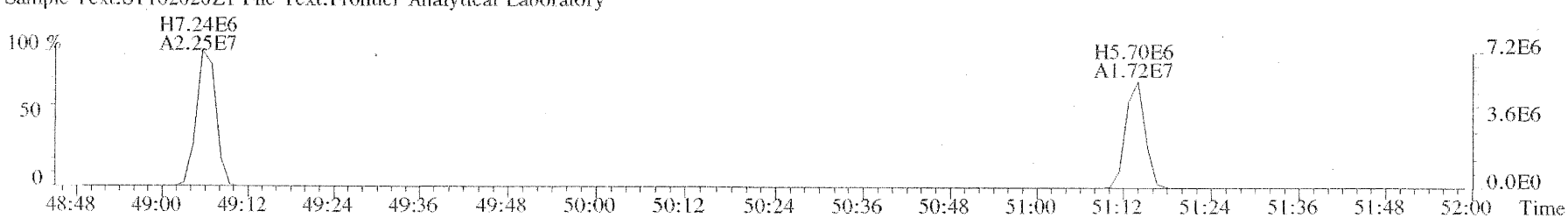
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



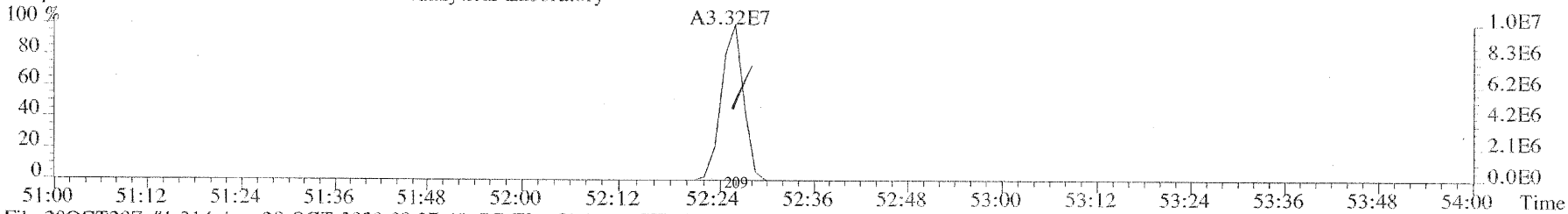
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



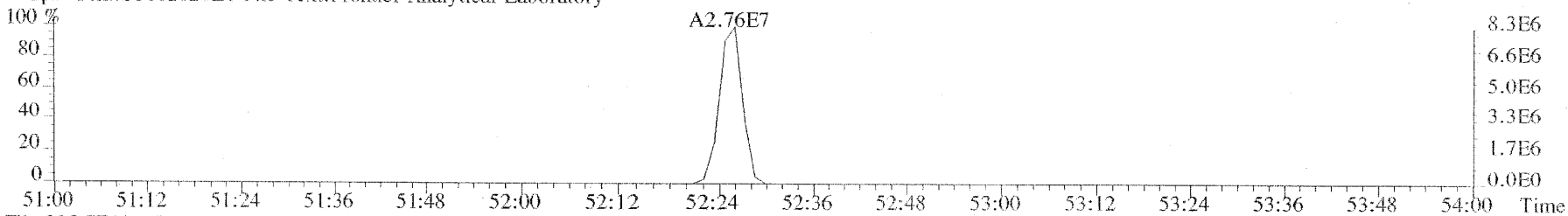
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



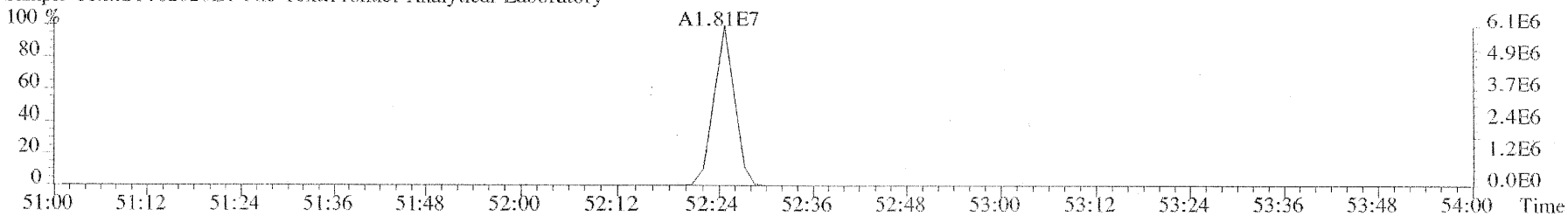
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



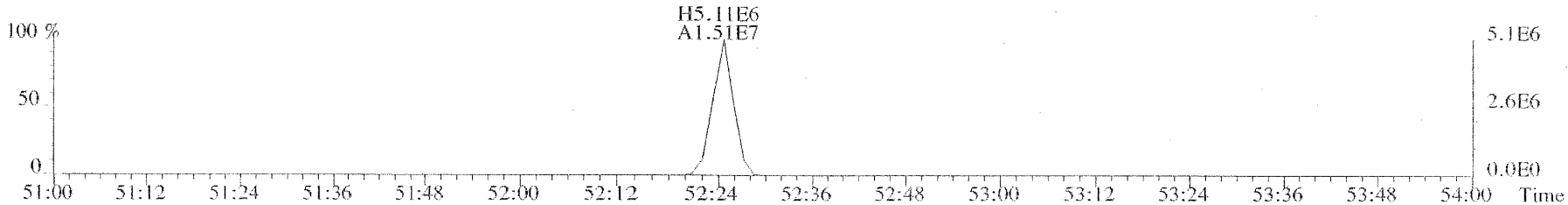
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory



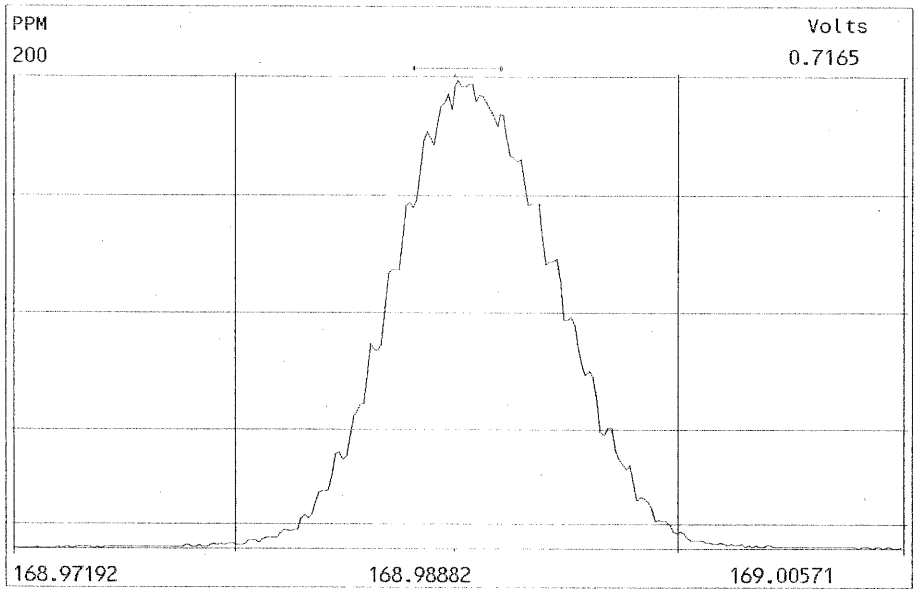
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory

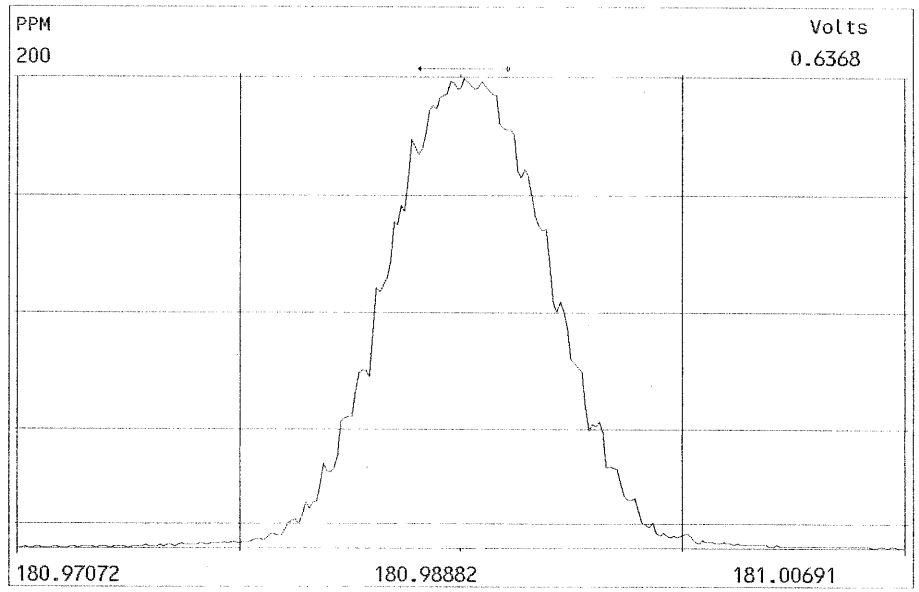


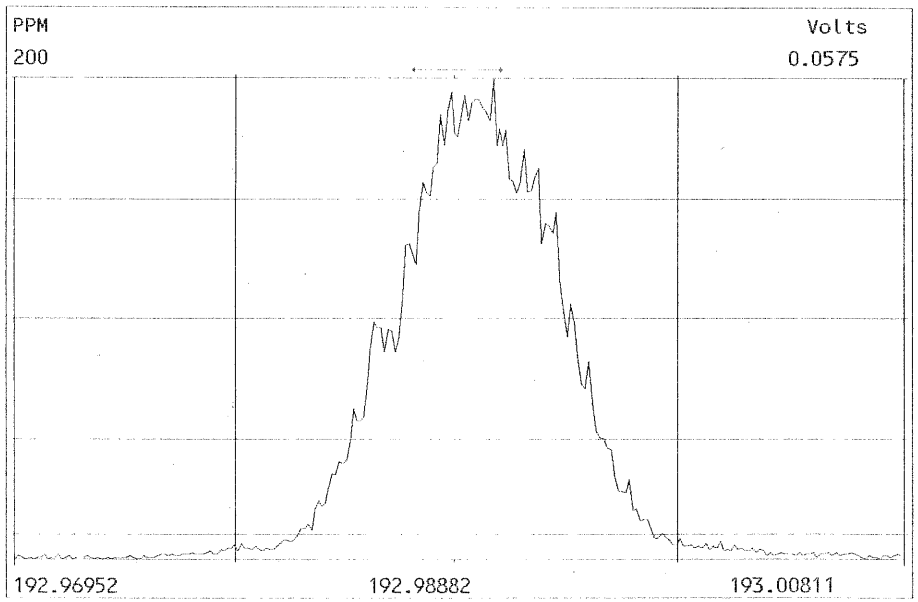
File:20OCT20Z #1-314 Acq:20-OCT-2020 08:37:49 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z1 File Text:Frontier Analytical Laboratory

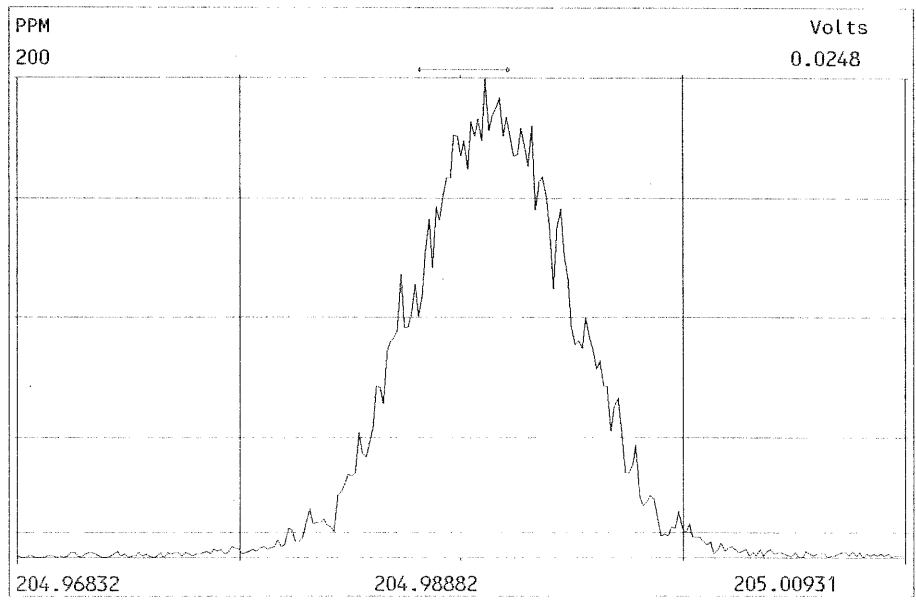


Peak Locate Examination:20-OCT-2020:23:45 File:20OCT20Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK



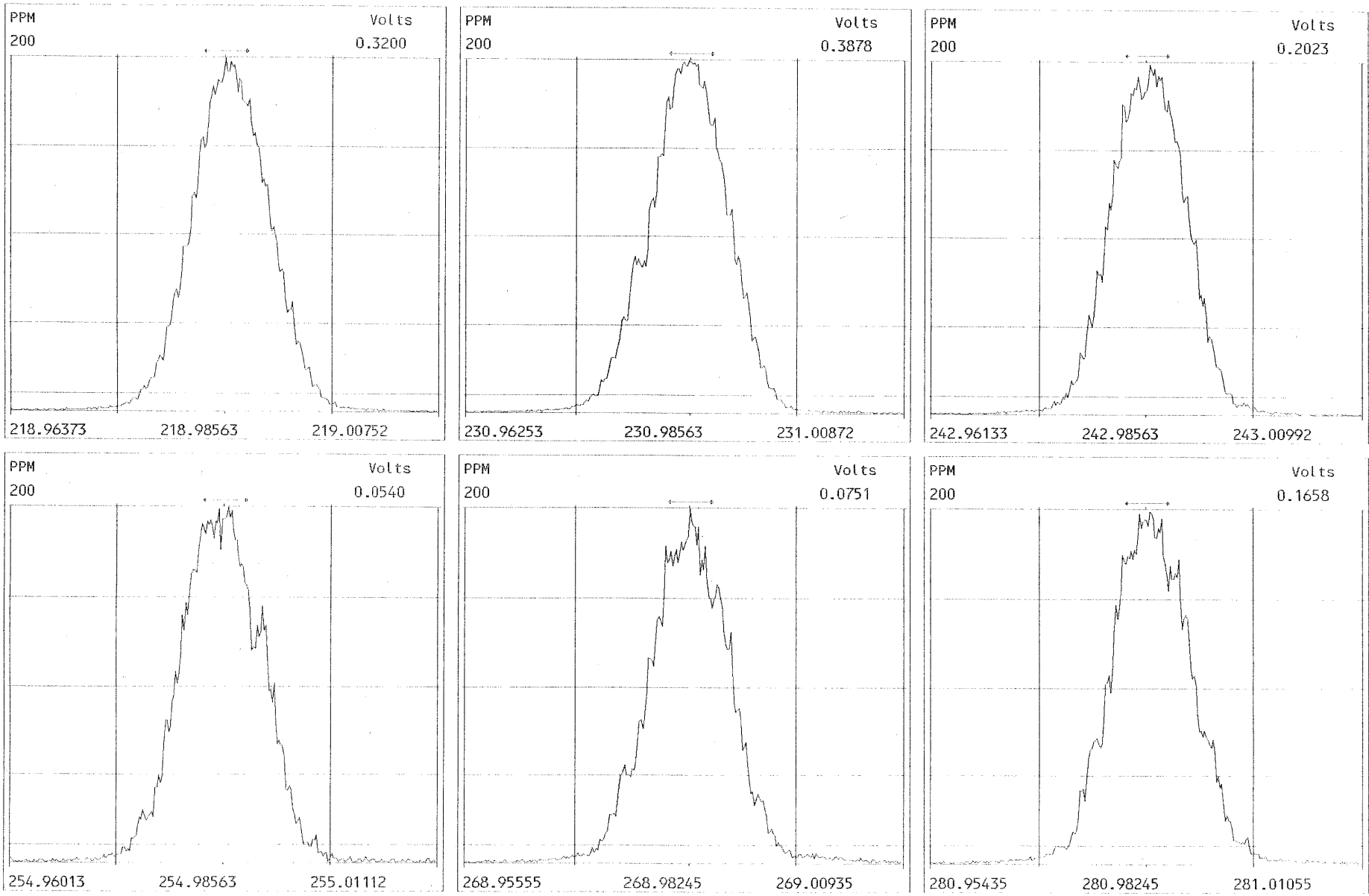




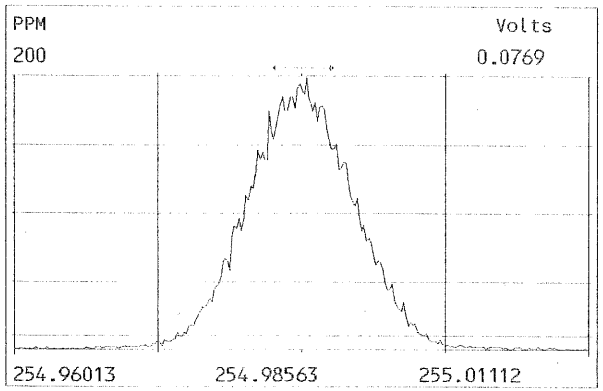


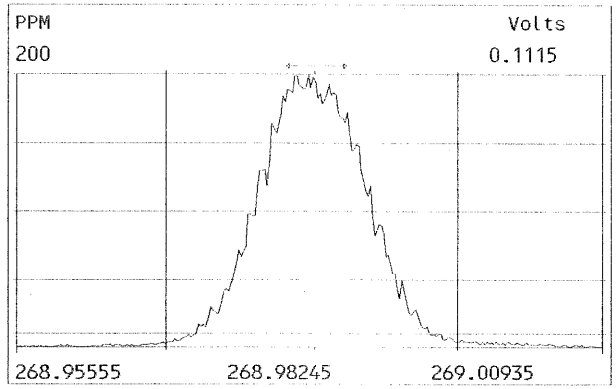
Peak Locate Examination:20-OCT-2020:23:47 File:20OCT20Z_RES_CHECK

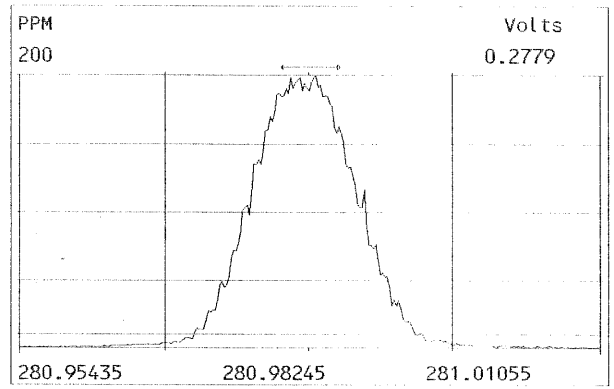
Experiment:1668PCB Function:2 Reference:PFK

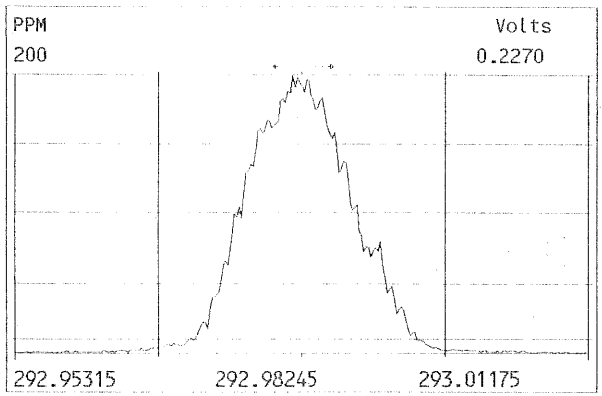


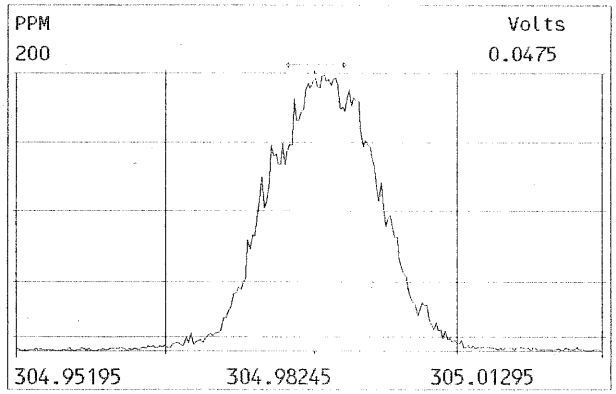
Peak Locate Examination:20-OCT-2020:23:49 File:20OCT20Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

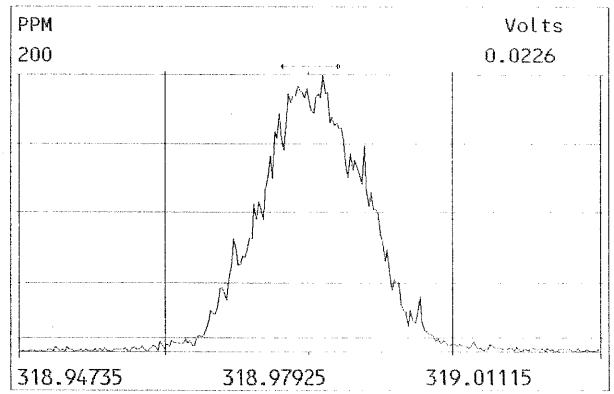


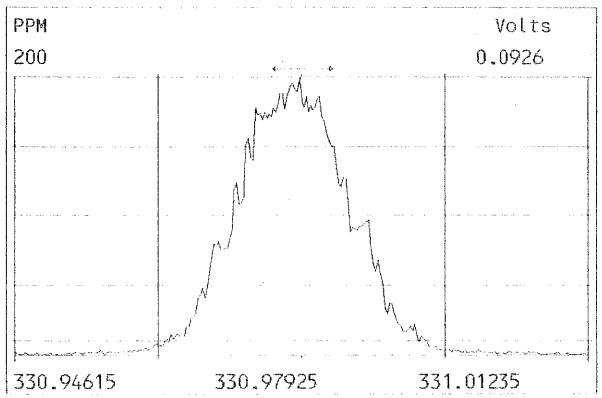


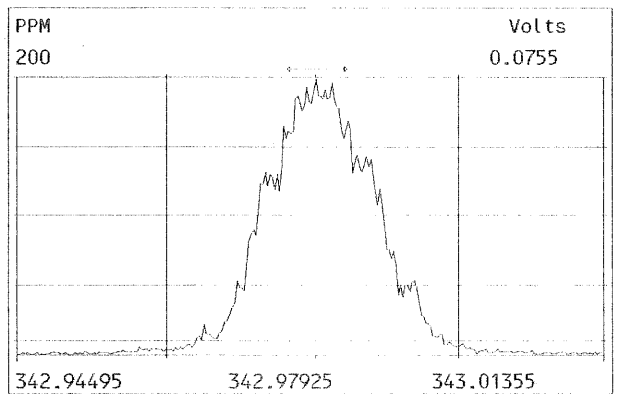






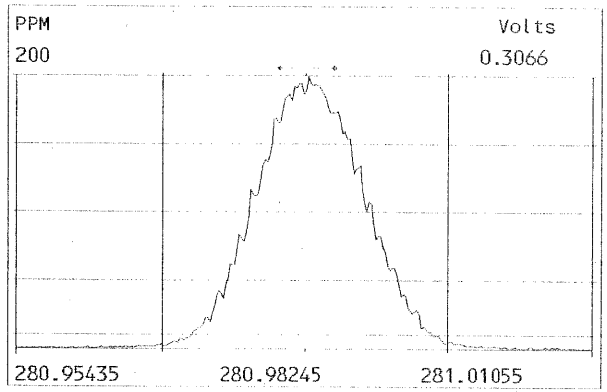


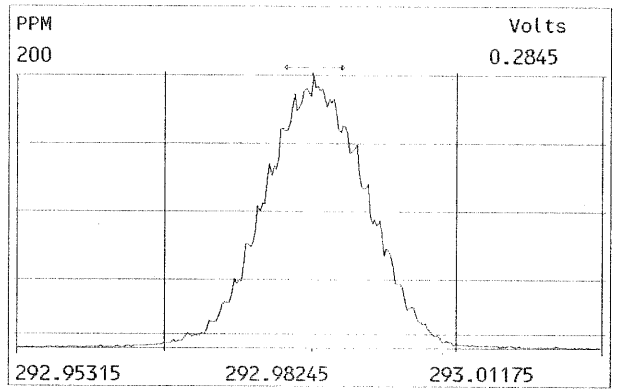


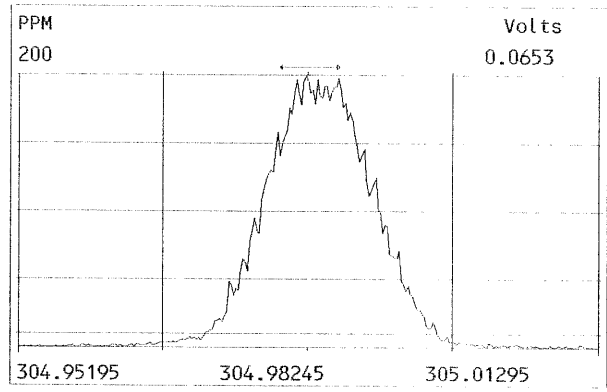


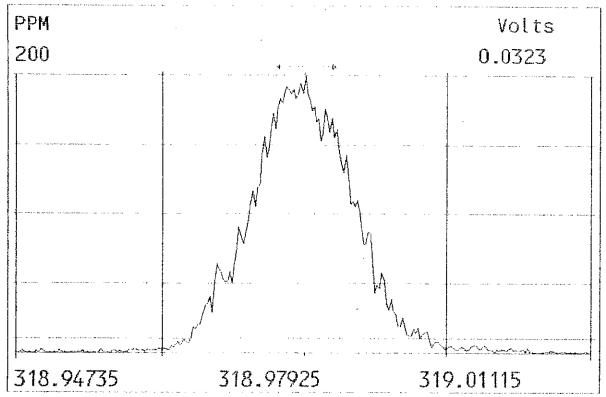
Peak Locate Examination:20-OCT-2020:23:52 File:20OCT20Z_RES_CHECK

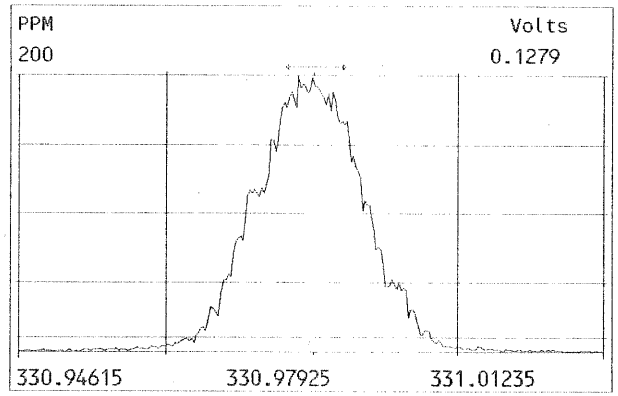
Experiment:1668PCB Function:4 Reference:PFK

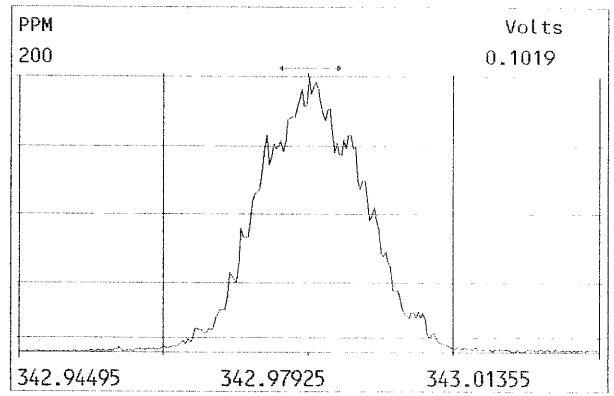


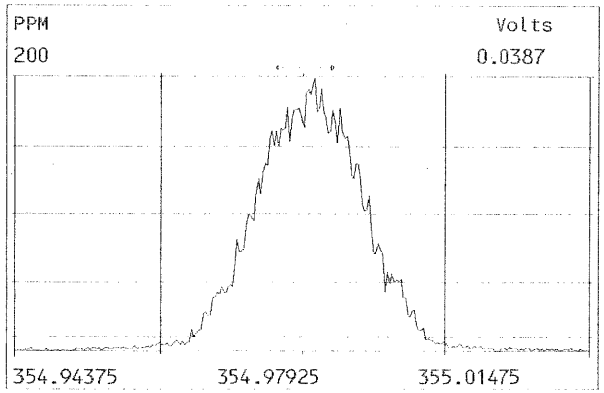


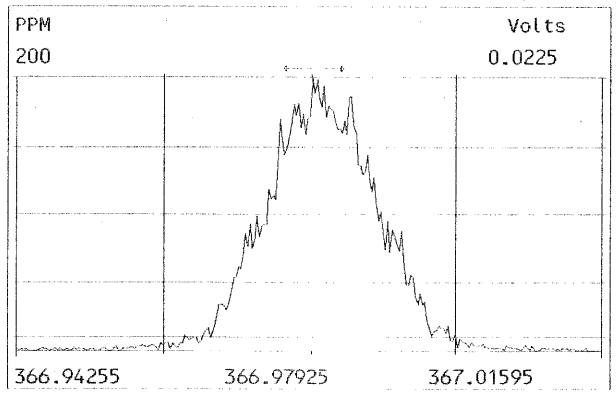


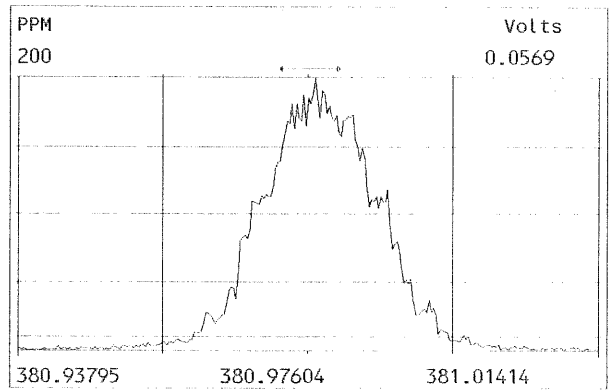




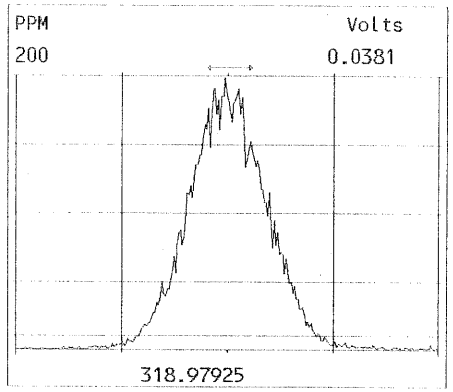


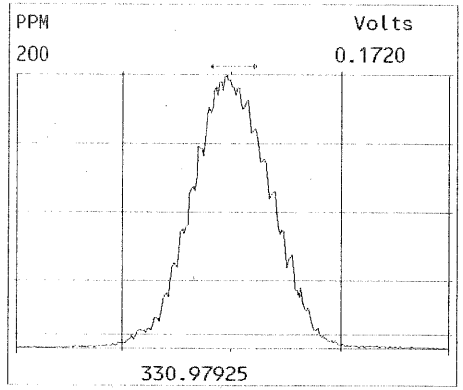


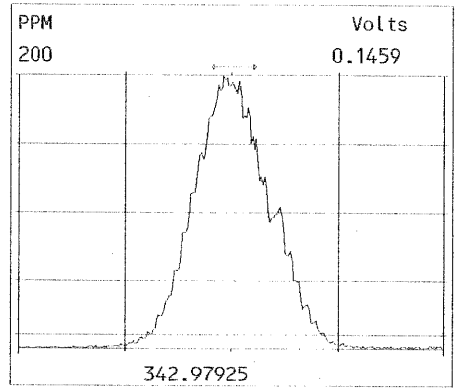


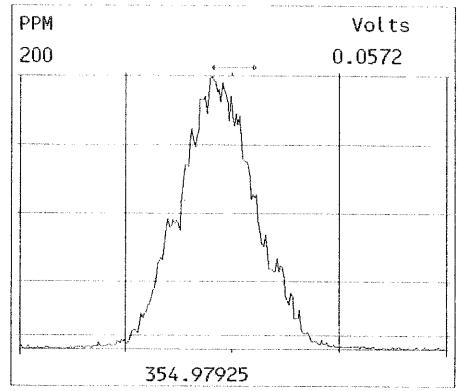


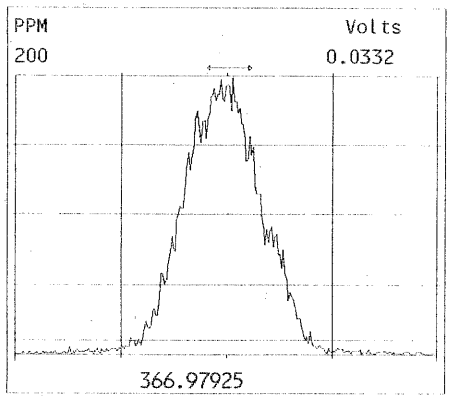
Peak Locate Examination:20-OCT-2020:23:54 File:20OCT20Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

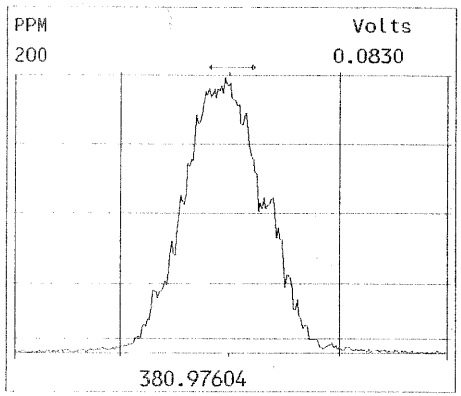


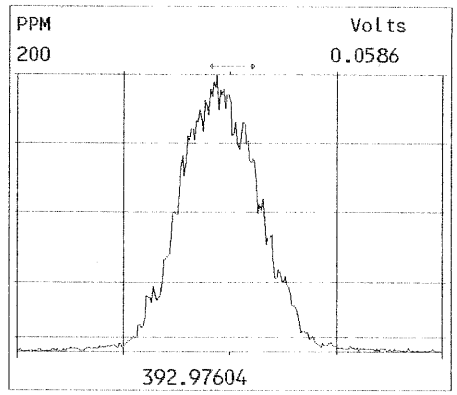


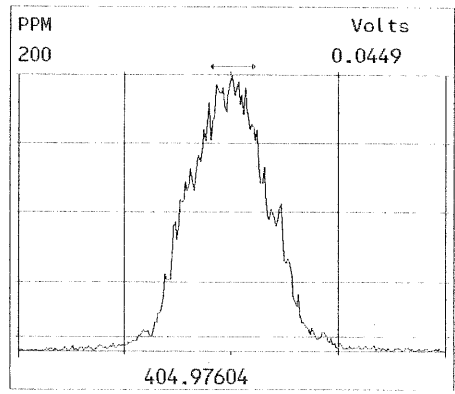


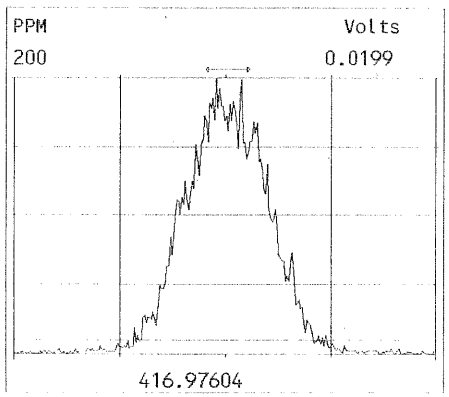


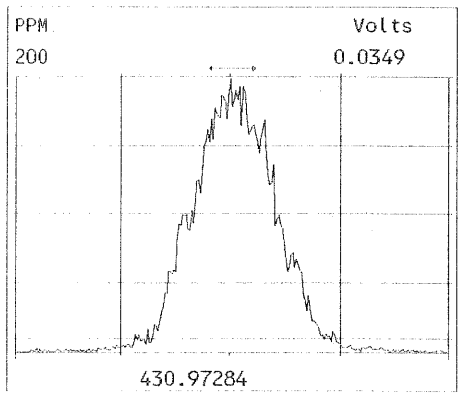


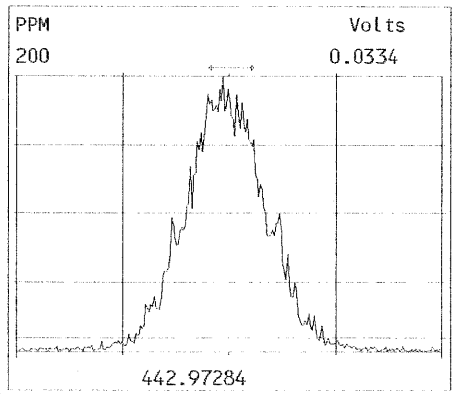






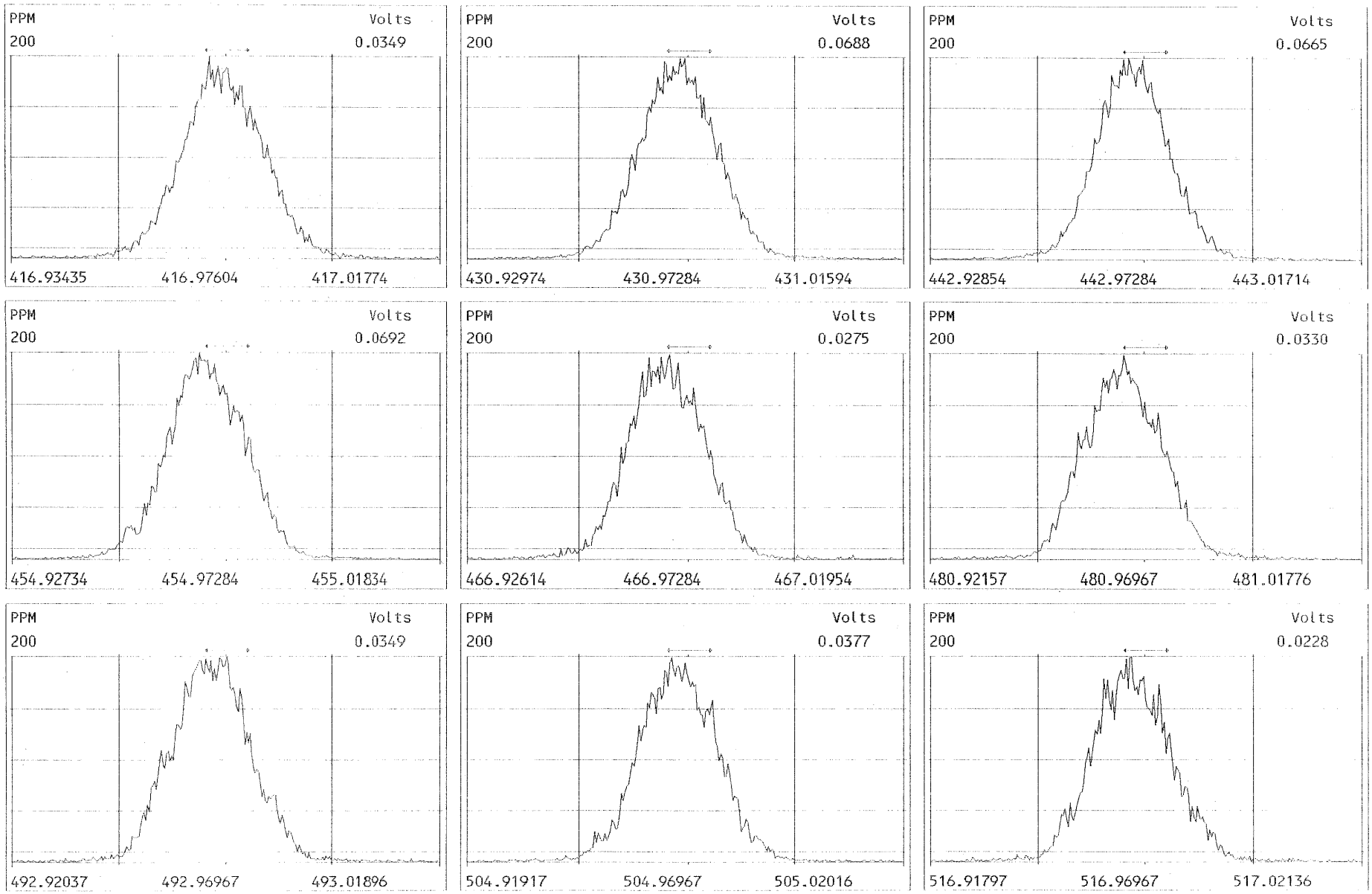






Peak Locate Examination:20-OCT-2020:23:57 File:20OCT20Z_RES_CHECK

Experiment:1668PCB Function:6 Reference:PFK



Frontier Analytical Laboratory

NATIVES
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/22/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 20OCT20Z Sam:15 Analysis Date: 20-OCT-20 22:18:04

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.23	2.66-3.60	y	58.6	37.5 - 62.5
PCB-3	M/M+2	3.11	2.66-3.60	y	56.6	37.5 - 62.5
PCB-4	M/M+2	1.50	1.33-1.79	y	47.9	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	56.8	37.5 - 62.5
PCB-19	M/M+2	1.10	0.88-1.20	y	57.2	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	53.0	37.5 - 62.5
PCB-54	M/M+2	0.79	0.65-0.89	y	115	75.0 - 125
PCB-77	M/M+2	0.81	0.65-0.89	y	105	75.0 - 125
PCB-81	M/M+2	0.80	0.65-0.89	y	114	75.0 - 125
PCB-104	M+2/M+4	1.56	1.32-1.78	y	108	75.0 - 125
PCB-105	M+2/M+4	1.55	1.32-1.78	y	112	75.0 - 125
PCB-114	M+2/M+4	1.56	1.32-1.78	y	109	75.0 - 125
PCB-118	M+2/M+4	1.56	1.32-1.78	y	204	150 - 250
PCB-123	M+2/M+4	1.57	1.32-1.78	y	101	75.0 - 125
PCB-126	M+2/M+4	1.60	1.32-1.78	y	111	75.0 - 125
PCB-155	M+2/M+4	1.31	1.05-1.43	y	111	75.0 - 125
PCB-156	M+2/M+4	1.29	1.05-1.43	y	117	75.0 - 125
PCB-157	M+2/M+4	1.28	1.05-1.43	y	116	75.0 - 125
PCB-167	M+2/M+4	1.27	1.05-1.43	y	113	75.0 - 125
PCB-169	M+2/M+4	1.29	1.05-1.43	y	114	75.0 - 125
PCB-188	M+2/M+4	1.09	0.89-1.21	y	118	75.0 - 125
PCB-189	M+2/M+4	1.07	0.89-1.21	y	114	75.0 - 125
PCB-202	M+2/M+4	0.95	0.76-1.02	y	185	112.5 - 187.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	158	112.5 - 187.5
PCB-206	M+4/M+6	1.35	1.13-1.53	y	168	112.5 - 187.5
PCB-208	M+4/M+6	1.38	1.13-1.53	y	166	112.5 - 187.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	165	112.5 - 187.5

Analyst: [signature] Date: 10/21/20

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/22/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 20OCT20Z Sam:15 Analysis Date: 20-OCT-20 22:18:04

	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	3.36	2.66-3.60	y	80.0	50.0 - 145
13C-PCB-3	M/M+2	3.39	2.66-3.60	y	74.9	50.0 - 145
13C-PCB-4	M/M+2	1.63	1.33-1.79	y	98.7	50.0 - 145
13C-PCB-15	M/M+2	1.62	1.33-1.79	y	87.2	50.0 - 145
13C-PCB-19	M/M+2	1.13	0.88-1.20	y	64.3	50.0 - 145
13C-PCB-37	M/M+2	1.08	0.88-1.20	y	97.1	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	93.4	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	112	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	111	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	83.2	50.0 - 145
13C-PCB-105	M+2/M+4	1.59	1.32-1.78	y	112	50.0 - 145
13C-PCB-114	M+2/M+4	1.62	1.32-1.78	y	112	50.0 - 145
13C-PCB-118	M+2/M+4	1.60	1.32-1.78	y	111	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	108	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	114	50.0 - 145
13C-PCB-155	M+2/M+4	1.35	1.05-1.43	y	82.1	50.0 - 145
13C-PCB-156	M+2/M+4	1.32	1.05-1.43	y	95.8	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	96.2	50.0 - 145
13C-PCB-167	M+2/M+4	1.31	1.05-1.43	y	93.9	50.0 - 145
13C-PCB-169	M+2/M+4	1.32	1.05-1.43	y	96.4	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	69.0	50.0 - 145
13C-PCB-189	M+2/M+4	1.11	0.89-1.21	y	84.6	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	54.9	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	91.3	50.0 - 145
13C-PCB-206	M+2/M+4	0.82	0.65-0.89	y	82.5	50.0 - 145
13C-PCB-208	M+2/M+4	0.82	0.65-0.89	y	75.2	50.0 - 145
13C-PCB-209	M+4/M+6	1.21	0.99-1.33	y	70.8	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	110	65.0 - 135
13C-PCB-111	M+2/M+4	1.64	1.32-1.78	y	99.0	75.0 - 125
13C-PCB-178	M+2/M+4	1.15	0.89-1.21	y	76.4	75.0 - 125

Analyst: _____ Date: 10/21/20

FAL ID: ST102020Z2 Filename: 20OCT20Z Sam:15 Acquired: 20-OCT-20 22:18:04 ICal: 1668PCBFAL4-7-22-20
Client ID: CS209 200406A ConCal: ST102020Z1 EndCal: ST102020Z2
Results: 20OCT20Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.60e+07	3.23 y	14:31	1.21	58.6		2.50	-	-	*	-
13C-PCB-1	5.07e+07	3.36 y	14:30	0.90	80.0		2.50				80.0
PCB-3	3.42e+07	3.11 y	16:56	1.23	56.6		2.50	-	-	*	-
13C-PCB-3	4.91e+07	3.39 y	16:55	0.93	74.9		2.50				74.9
PCB-4	2.51e+07	1.50 y	18:11	1.14	47.9		2.50	-	-	*	-
13C-PCB-4	4.59e+07	1.63 y	18:09	0.66	98.7		2.50				98.7
PCB-15	4.15e+07	1.55 y	23:41	1.09	56.8		2.50	-	-	*	-
13C-PCB-15	6.68e+07	1.62 y	23:39	1.09	87.2		2.50				87.2
PCB-19	1.59e+07	1.10 y	22:03	1.21	57.2		2.50	-	-	*	-
13C-PCB-19	2.29e+07	1.13 y	22:02	0.50	64.3		2.50				64.3
13C-PCB-9	7.05e+07	1.64 y	19:49	-	69.1		2.50				
PCB-37	3.25e+07	1.05 y	30:18	1.14	53.0		2.50	-	-	*	-
13C-PCB-37	5.37e+07	1.08 y	30:17	1.64	97.1		2.50				97.1
PCB-54	5.41e+07	0.79 y	25:34	1.18	115		2.50	-	-	*	-
13C-PCB-54	3.98e+07	0.83 y	25:32	1.26	93.4		2.50				93.4
PCB-104	3.45e+07	1.56 y	30:00	1.12	108		2.50	-	-	*	-
13C-PCB-104	2.86e+07	1.60 y	29:59	1.02	83.2		2.50				83.2
13C-PCB-28	6.42e+07	1.07 y	26:37	1.73	110		2.50				110
13C-PCB-52	3.37e+07	0.79 y	28:53	-	63.4		2.50				
PCB-81	6.80e+07	0.80 y	36:04	1.13	114		2.50	-	-	*	-
13C-PCB-81	5.29e+07	0.80 y	36:03	1.57	111		2.50				111
PCB-77	6.27e+07	0.81 y	36:37	1.10	105		2.50	-	-	*	-
13C-PCB-77	5.45e+07	0.80 y	36:37	1.61	112		2.50				112
PCB-155	3.46e+07	1.31 y	34:09	1.13	111		2.50	-	-	*	-
13C-PCB-155	2.74e+07	1.35 y	34:08	1.10	82.1		2.50				82.1
13C-PCB-111	3.81e+07	1.64 y	36:12	1.27	99.0		2.50				99.0
13C-PCB-101	3.02e+07	1.65 y	34:35	-	63.5		2.50				
PCB-123	5.40e+07	1.57 y	38:16	1.11	101		2.50	-	-	*	-
13C-PCB-123	4.81e+07	1.59 y	38:14	1.28	108		2.50				108
PCB-118	1.19e+08	1.56 y	38:27	1.12	204		2.50	-	-	*	-
13C-PCB-118	5.22e+07	1.60 y	38:26	1.35	111		2.50				111
PCB-114	6.18e+07	1.56 y	39:04	1.13	109		2.50	-	-	*	-
13C-PCB-114	5.02e+07	1.62 y	39:02	1.29	112		2.50				112
PCB-105	6.17e+07	1.55 y	39:53	1.10	112		2.50	-	-	*	-
13C-PCB-105	4.98e+07	1.59 y	39:51	1.28	112		2.50				112
PCB-126	5.87e+07	1.60 y	41:60	1.08	111		2.50	-	-	*	-
13C-PCB-126	4.87e+07	1.60 y	41:58	1.23	114		2.50				114
PCB-167	5.03e+07	1.27 y	43:22	1.11	113		2.50	-	-	*	-
13C-PCB-167	4.00e+07	1.31 y	43:20	1.23	93.9		2.50				93.9
PCB-156	5.19e+07	1.29 y	44:34	1.13	117		2.50	-	-	*	-
13C-PCB-156	3.95e+07	1.32 y	44:34	1.19	95.8		2.50				95.8
PCB-157	5.11e+07	1.28 y	44:51	1.08	116		2.50	-	-	*	-
13C-PCB-157	4.05e+07	1.30 y	44:49	1.21	96.2		2.50				96.2
PCB-169	4.80e+07	1.29 y	46:43	1.08	114		2.50	-	-	*	-
13C-PCB-169	3.92e+07	1.32 y	46:41	1.17	96.4		2.50				96.4
PCB-188	3.51e+07	1.09 y	39:38	1.10	118		2.50	-	-	*	-
13C-PCB-188	2.70e+07	1.09 y	39:38	1.13	69.0		2.50				69.0
PCB-189	3.45e+07	1.07 y	48:23	1.07	114		2.50	-	-	*	-
13C-PCB-189	2.83e+07	1.11 y	48:22	0.97	84.6		2.50				84.6
PCB-202	3.46e+07	0.95 y	44:46	1.03	185		2.50	-	-	*	-
13C-PCB-202	1.82e+07	0.93 y	44:44	0.96	54.9		2.50				54.9
13C-PCB-178	2.06e+07	1.15 y	42:16	0.78	76.4		2.50				76.4
13C-PCB-138	3.47e+07	1.32 y	41:28	-	72.2		2.50				

FAL ID: ST102020Z2 Filename: 20OCT20Z Sam:15 Acquired: 20-OCT-20 22:18:04 ICal: 1668PCBFAL4-7-22-20 2 of 2
Client ID: CS209 200406A ConCal: ST102020Z1 EndCal: ST102020Z2
Results: 20OCT20Z GC Column: DB1MS Amount: 1.000

PCB-205	7.99e+07	0.91	y	50:03	1.09	158	2.50	-	-	*	-
13C-PCB-205	4.67e+07	0.90	y	50:02	1.32	91.3	2.50				91.3
PCB-208	6.71e+07	1.38	y	49:07	1.01	166	2.50	-	-	*	-
13C-PCB-208	4.02e+07	0.82	y	49:05	1.38	75.2	2.50				75.2
PCB-206	5.26e+07	1.35	y	51:14	1.04	168	2.50	-	-	*	-
13C-PCB-206	3.00e+07	0.82	y	51:14	0.94	82.5	2.50				82.5
PCB-209	5.64e+07	1.20	y	52:26	1.13	165	2.50	-	-	*	-
13C-PCB-209	3.04e+07	1.21	y	52:24	1.10	70.8	2.50				70.8
13C-PCB-194	3.89e+07	0.89	y	49:46	-	102	2.50				

Analyst: _____ Date: 10/21/20

Frontier Analytical Laboratory - Acquisition Log

Run Name:20OCT20Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
20OCT20Z	1	ST102020Z1	CS209 200406A	20-OCT-20 08:37:49	ST102020Z1	ST102020Z2	BS
20OCT20Z	2	05481-001-0001-OPR	OPR	20-OCT-20 09:37:51	ST102020Z1	ST102020Z2	BS
20OCT20Z	3	05481-001-0001-MB	Method Blank	20-OCT-20 10:37:49	ST102020Z1	ST102020Z2	BS
20OCT20Z	4	13371-001-0001-SA	LDW-Y3-EXTRA-S010-TB	20-OCT-20 11:36:10	ST102020Z1	ST102020Z2	BS
20OCT20Z	5	13371-002-0001-SA	LDW-Y3-IN-ENR+AC-CA-S010	20-OCT-20 12:34:32	ST102020Z1	ST102020Z2	BS
20OCT20Z	6	13371-003-0001-SA	LDW-Y3-IN-ENR+AC-CB-S010	20-OCT-20 13:32:53	ST102020Z1	ST102020Z2	BS
20OCT20Z	7	13371-004-0001-SA	LDW-Y3-IN-ENR+AC-CC-S010	20-OCT-20 14:31:14	ST102020Z1	ST102020Z2	BS
20OCT20Z	8	13371-008-0001-SA	LDW-Y3-IN-ENR-CB-S010	20-OCT-20 15:29:36	ST102020Z1	ST102020Z2	BS
20OCT20Z	9	13371-009-0001-SA	LDW-Y3-IN-ENR-CC-S010	20-OCT-20 16:27:57	ST102020Z1	ST102020Z2	BS
20OCT20Z	10	13371-010-0001-SA	LDW-Y3-IN-ENR-CD-S010	20-OCT-20 17:26:18	ST102020Z1	ST102020Z2	BS
20OCT20Z	11	13371-013-0001-SA	LDW-Y3-SC-ENR+AC-CA-S010	20-OCT-20 18:24:39	ST102020Z1	ST102020Z2	BS
20OCT20Z	12	13371-014-0001-SA	LDW-Y3-SC-ENR+AC-CA-S010-LONG	20-OCT-20 19:23:00	ST102020Z1	ST102020Z2	BS
20OCT20Z	13	13371-015-0001-SA	LDW-Y3-SC-ENR+AC-CB-S010	20-OCT-20 20:21:21	ST102020Z1	ST102020Z2	BS
20OCT20Z	14	SB102020Z1	Solvent Blank	20-OCT-20 21:19:43	ST102020Z1	ST102020Z2	BS
20OCT20Z	15	ST102020Z2	CS209 200406A	20-OCT-20 22:18:04	ST102020Z1	ST102020Z2	BS

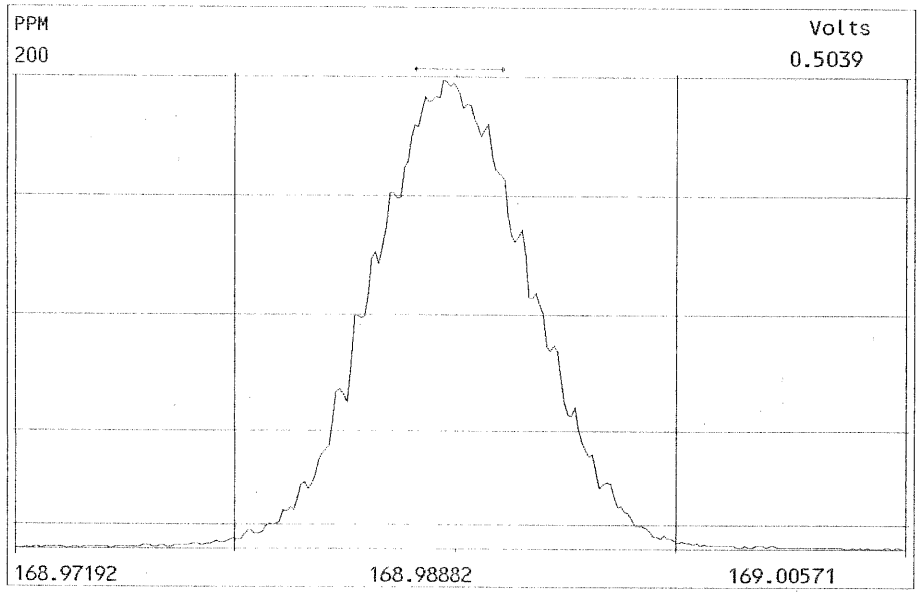
DN

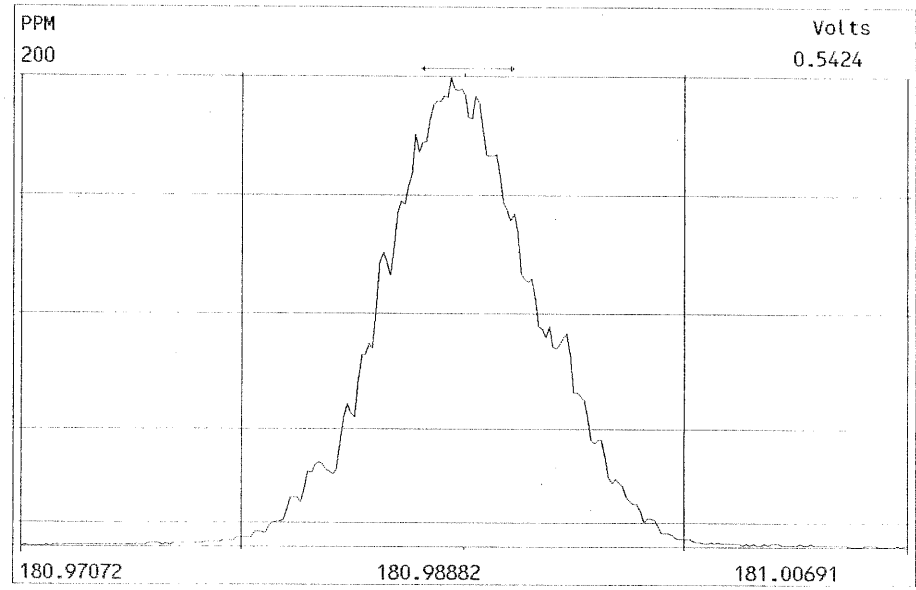
10.21.2020

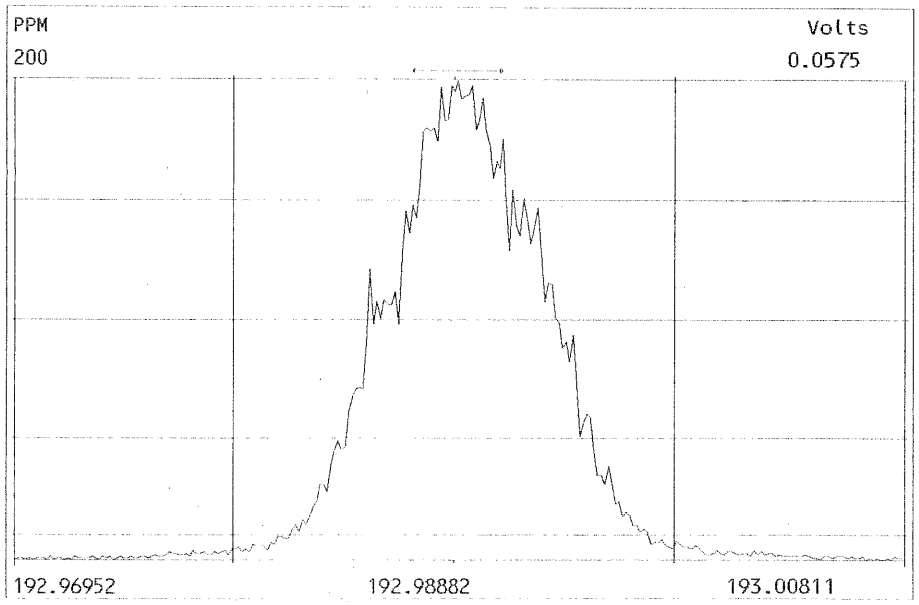
Data Backed Up:_____

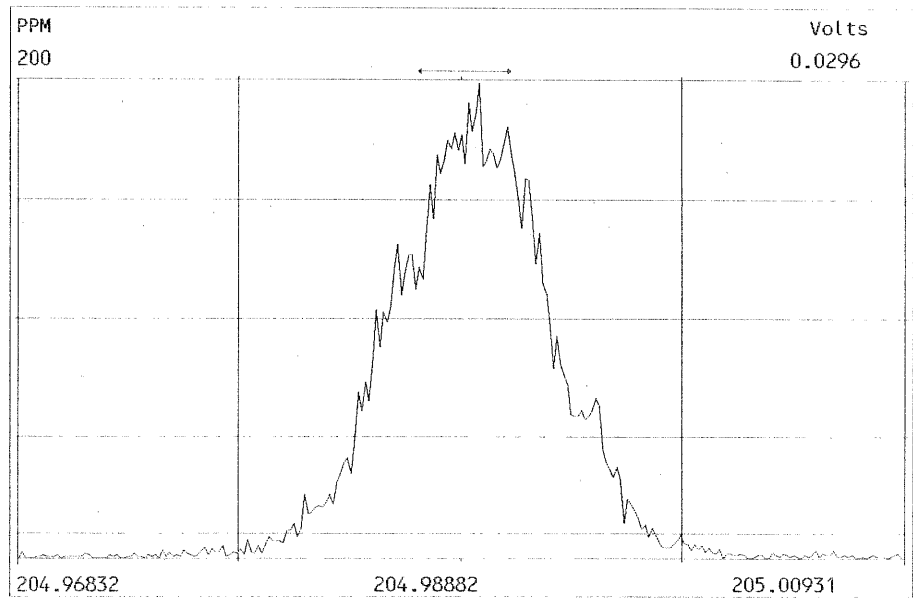
Date:_____

Peak Locate Examination:20-OCT-2020:08:35 File:20OCT20Z
Experiment:1668PCB Function:1 Reference:PFK



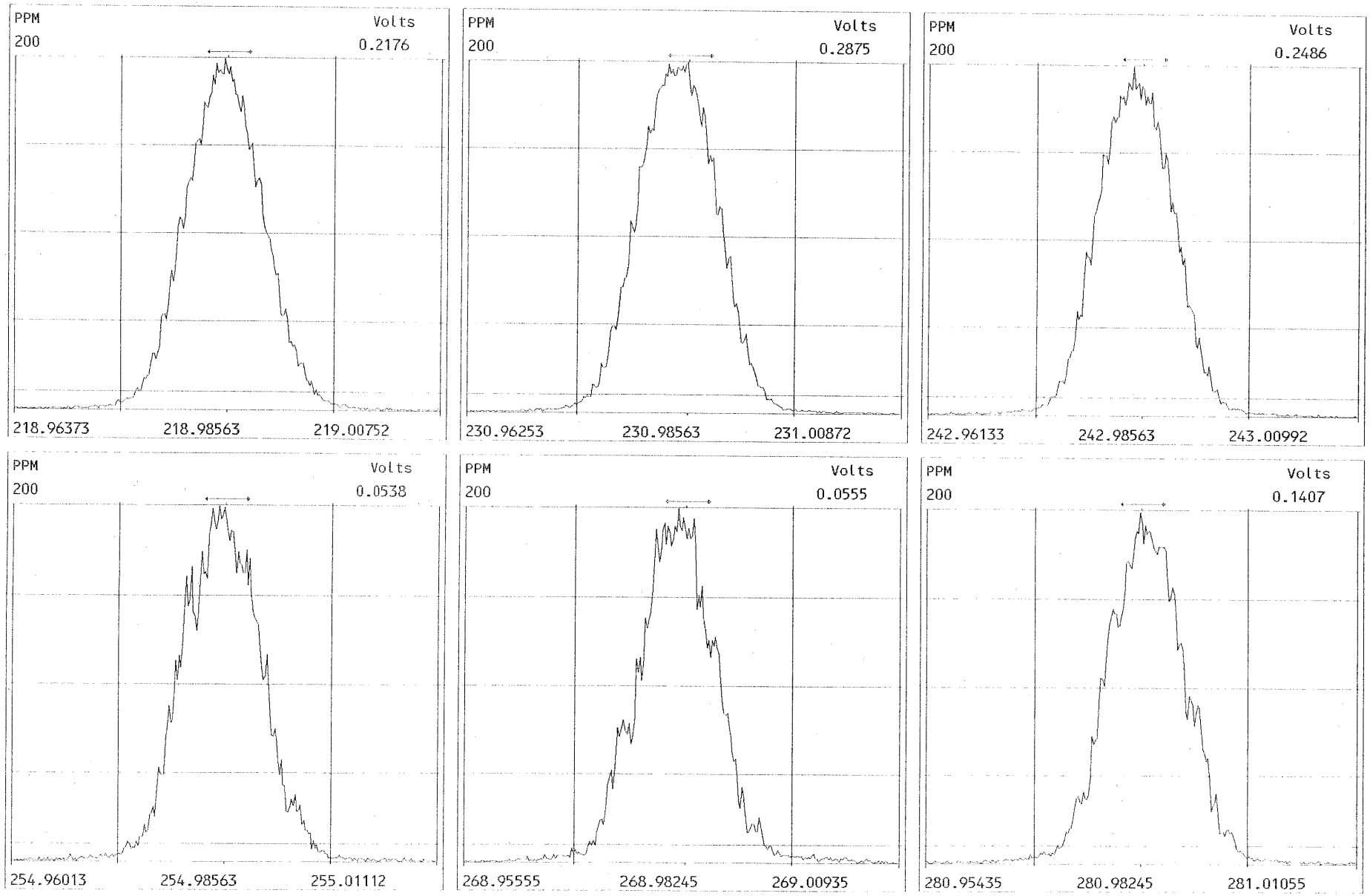




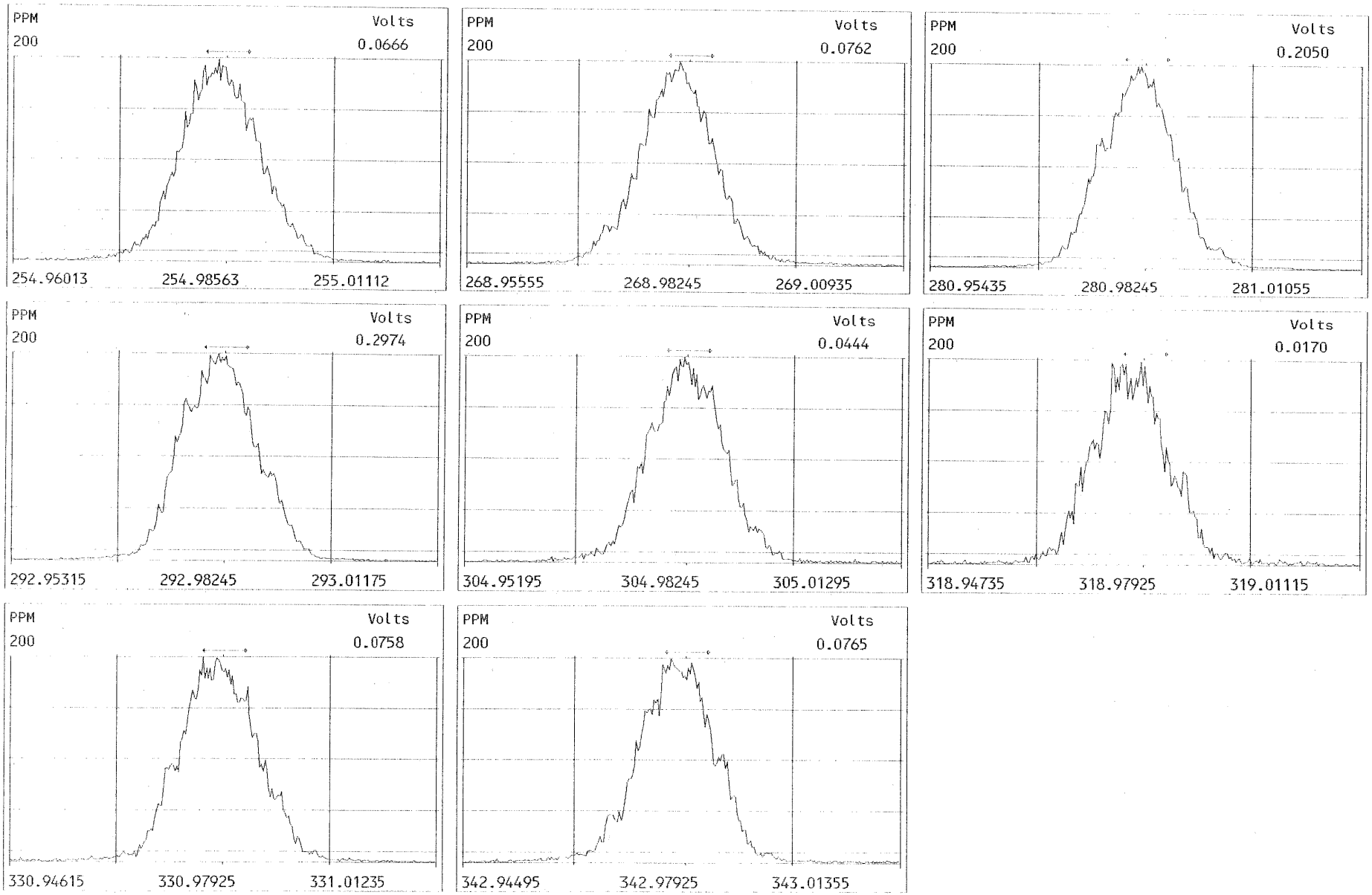


Peak Locate Examination:20-OCT-2020:08:35 File:20OCT20Z

Experiment:1668PCB Function:2 Reference:PFK

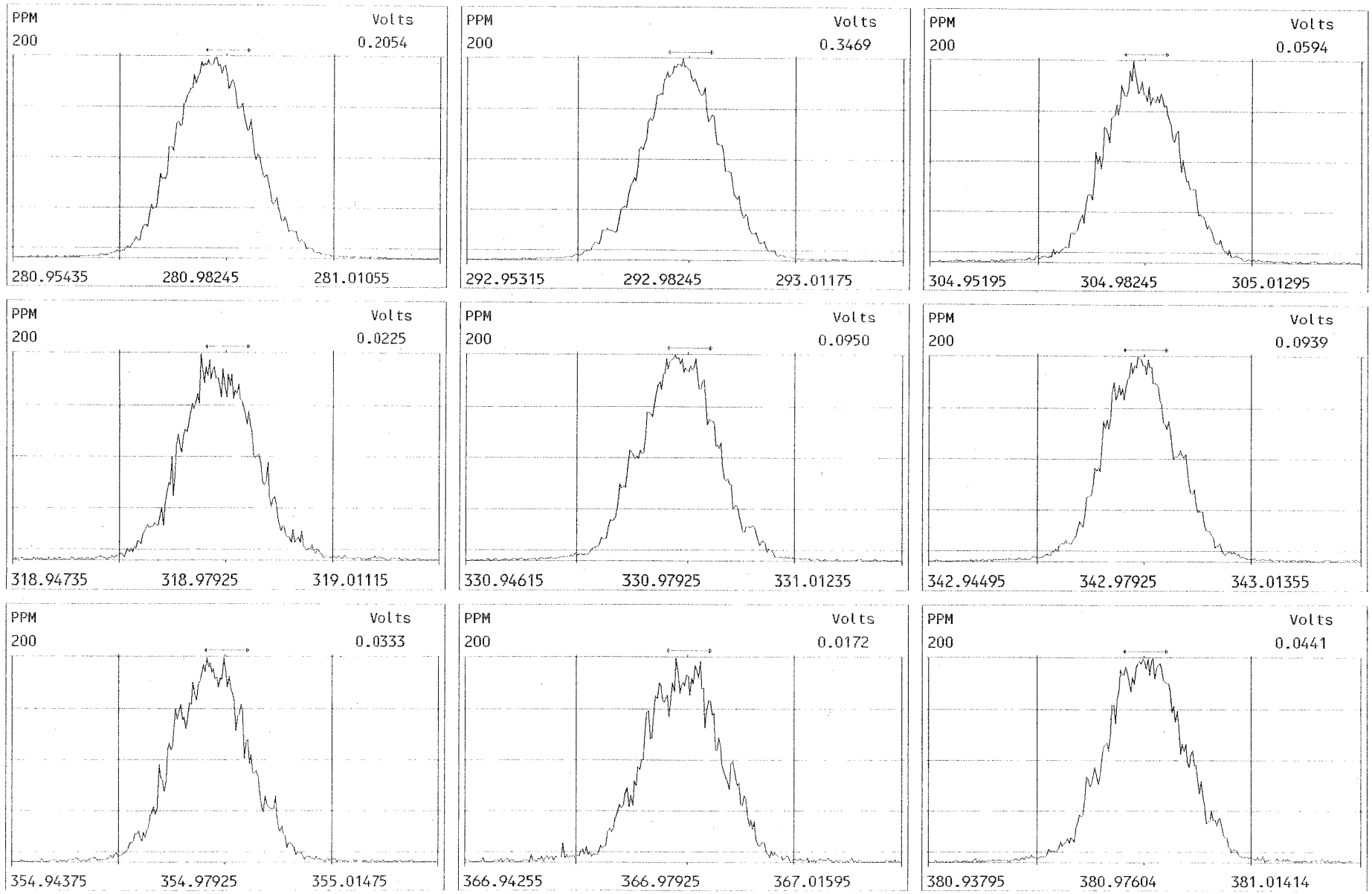


Peak Locate Examination:20-OCT-2020:08:36 File:20OCT20Z
Experiment:1668PCB Function:3 Reference:PFK

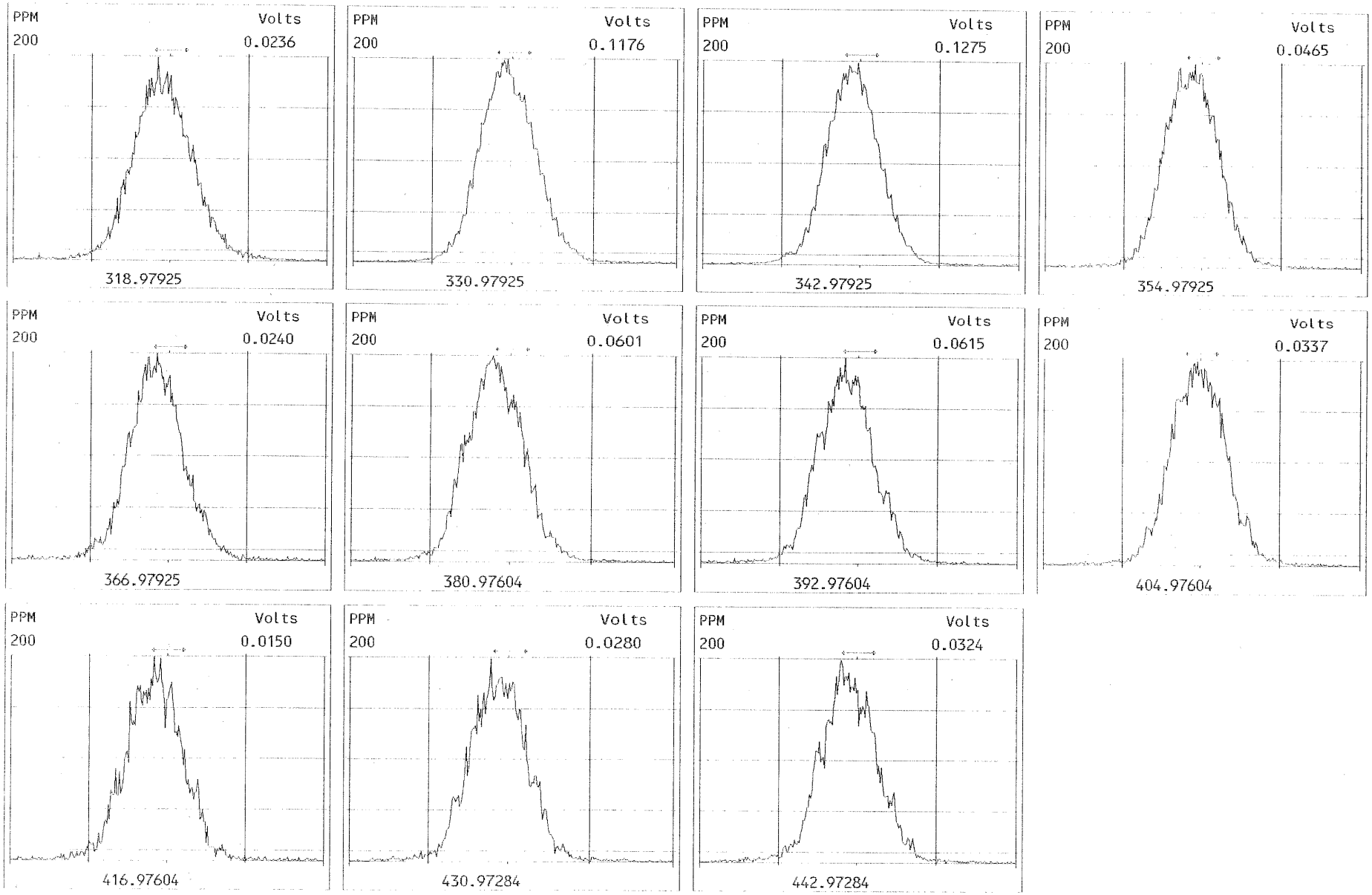


Peak Locate Examination:20-OCT-2020:08:36 File:20OCT20Z

Experiment:1668PCB Function:4 Reference:PFK

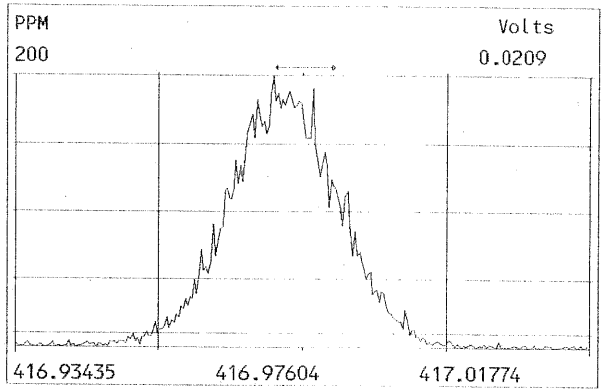


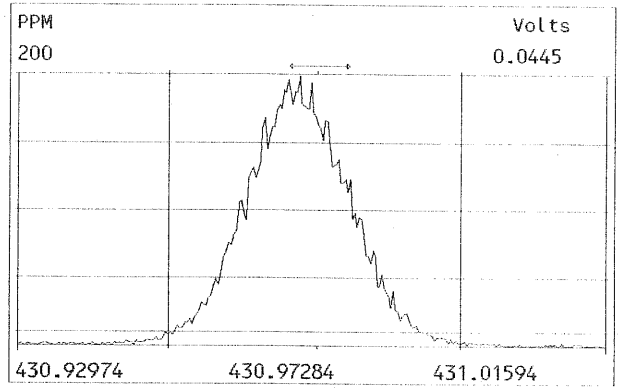
Peak Locate Examination:20-OCT-2020:08:36 File:20OCT20Z
Experiment:1668PCB Function:5 Reference:PFK

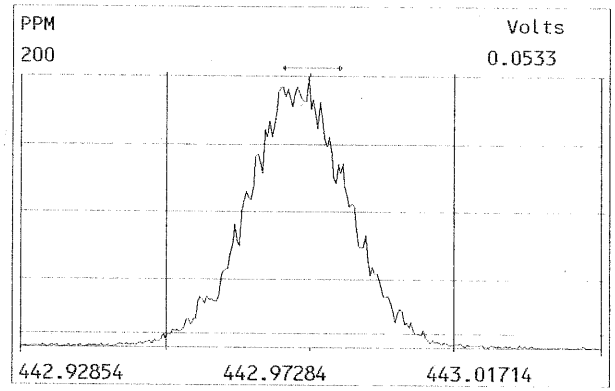


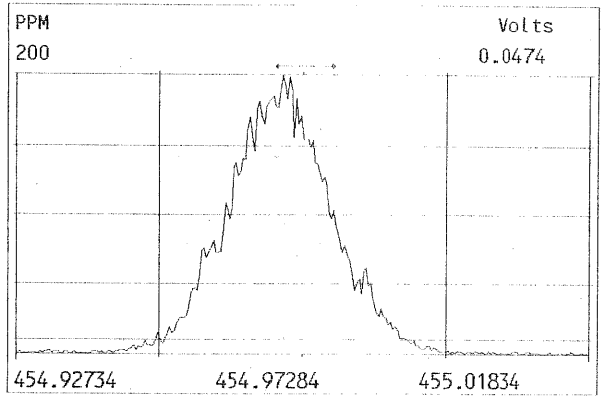
Peak Locate Examination:20-OCT-2020:08:37 File:20OCT20Z

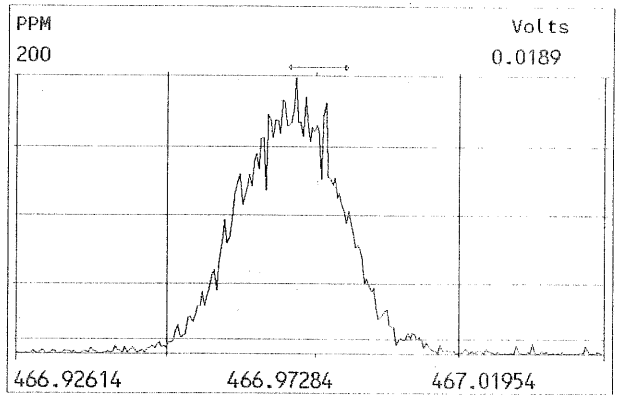
Experiment:1668PCB Function:6 Reference:PFK

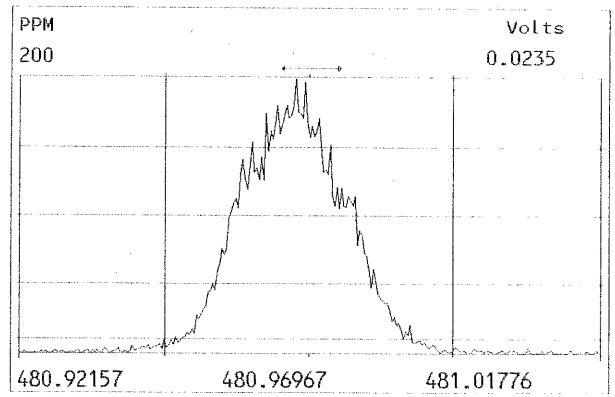


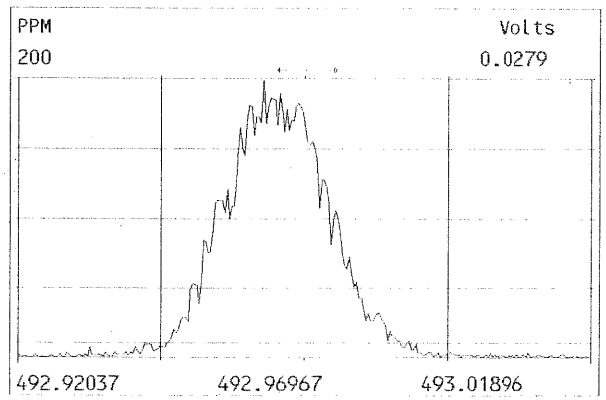


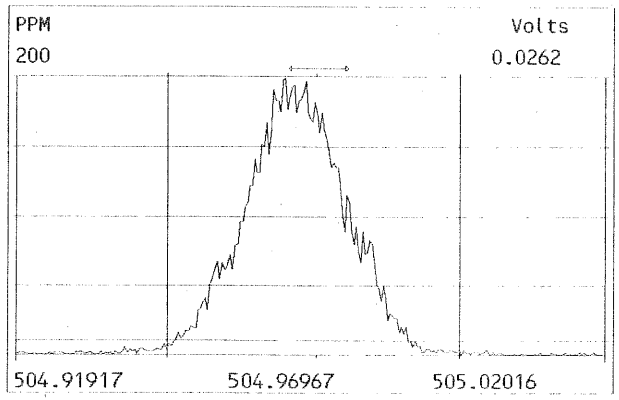


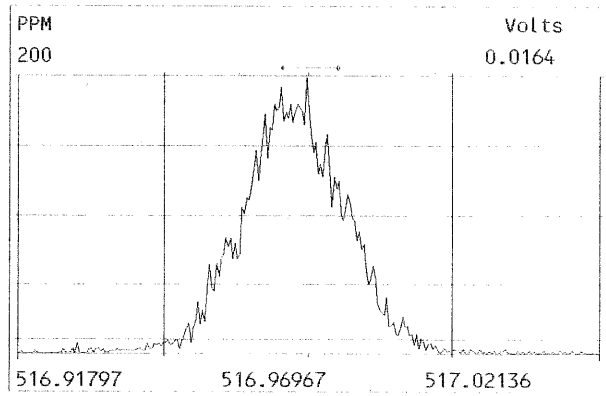




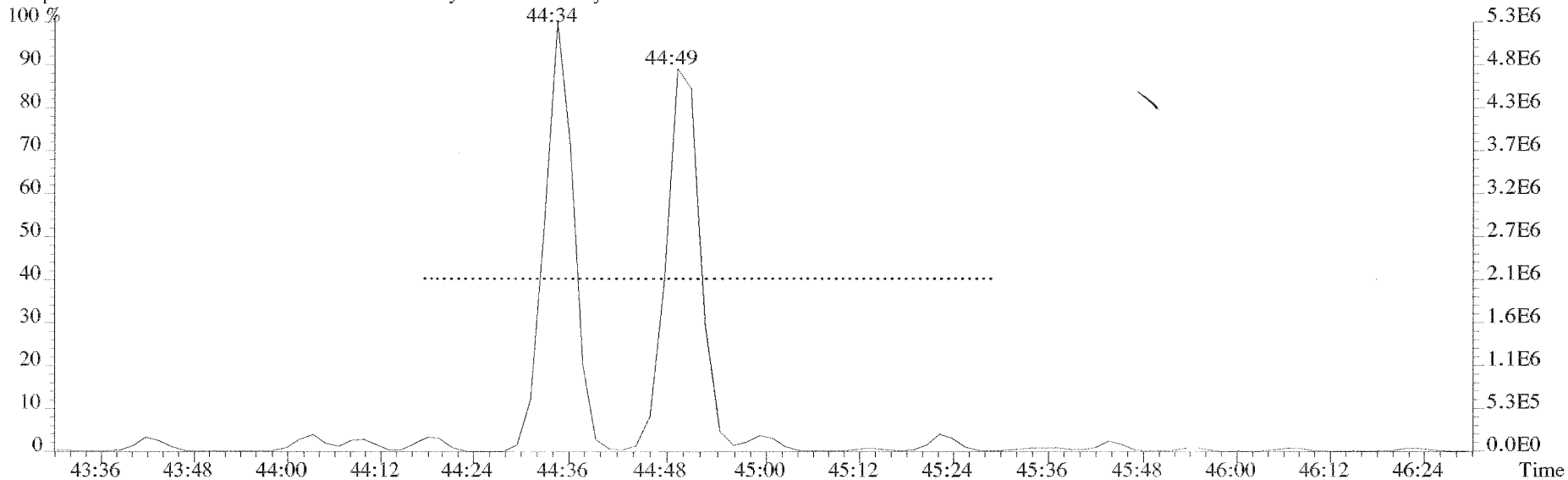








File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:5 Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



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373.8788 S:15 F:5 Exp:1668PCB
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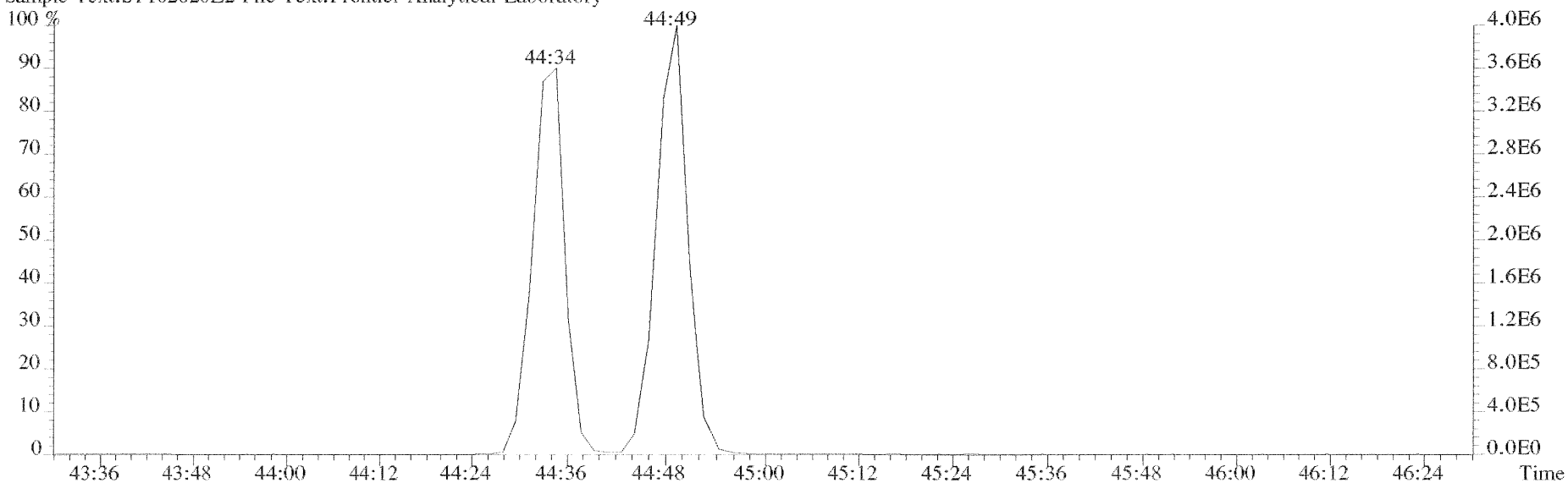
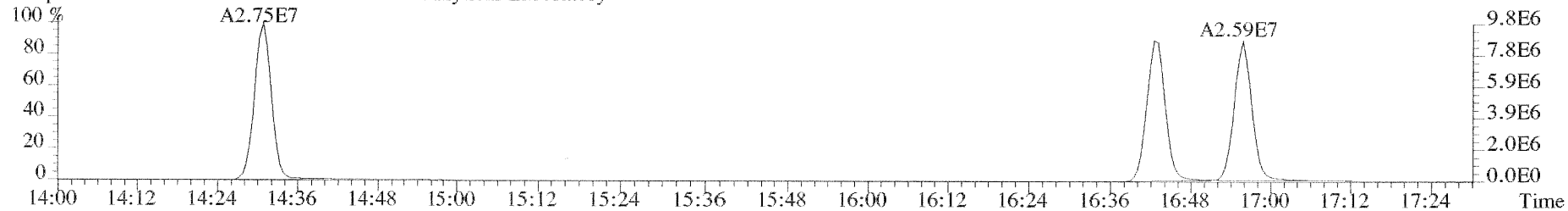
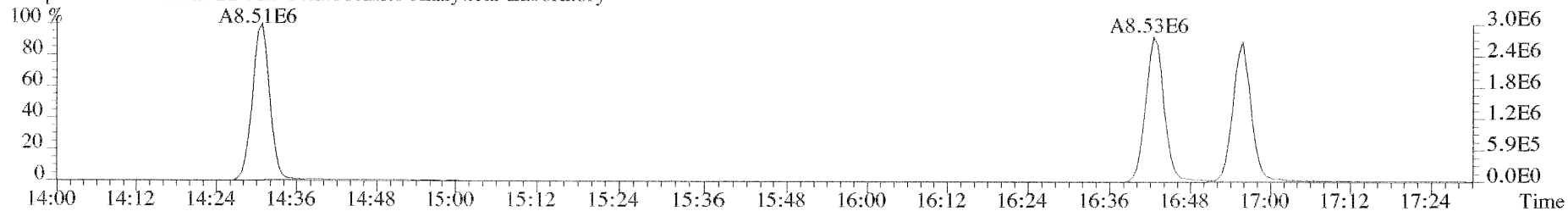


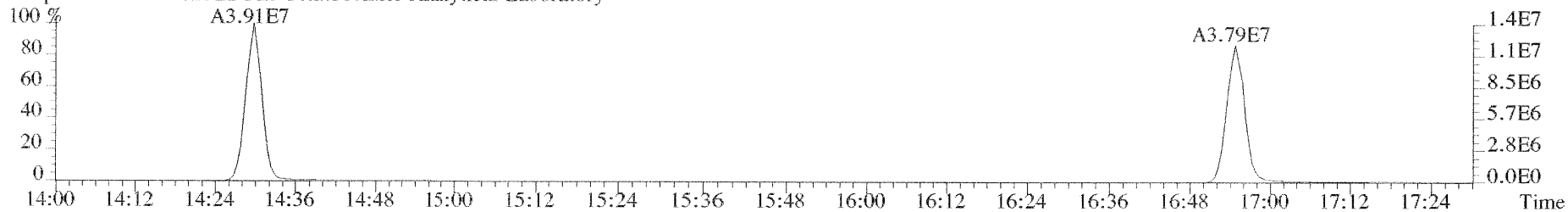
File:20OCT20Z #1-783 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-783 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-783 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-783 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
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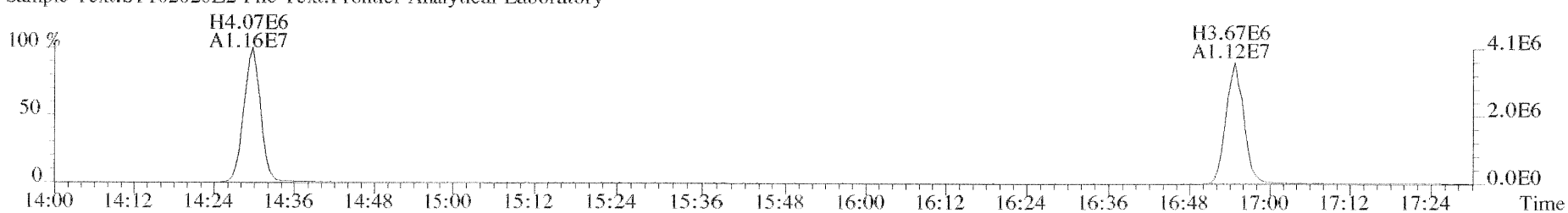
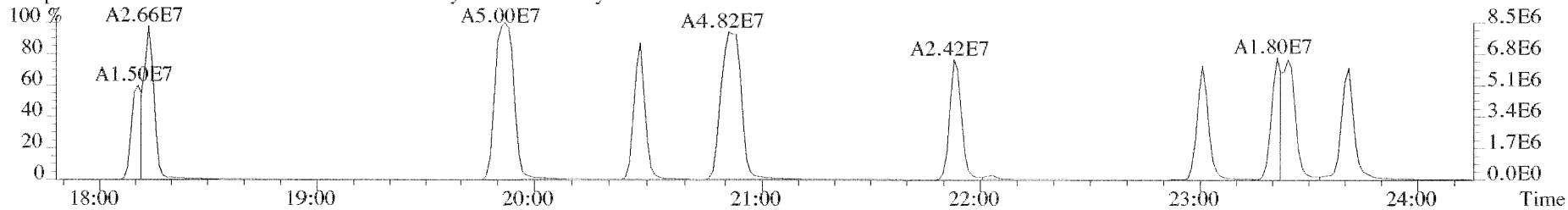
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-467 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-467 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
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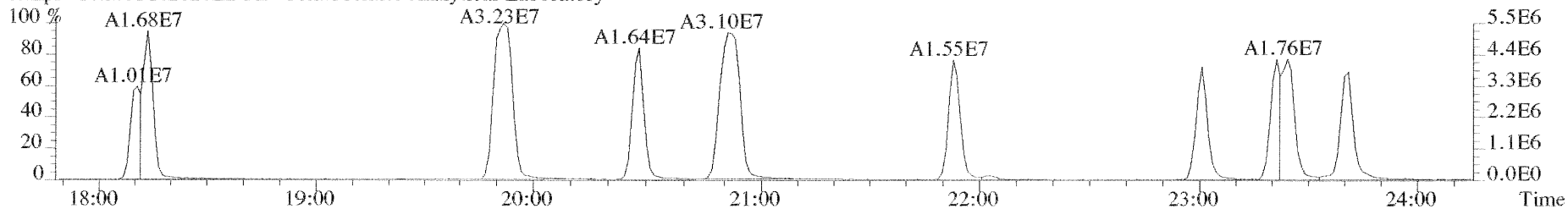
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-467 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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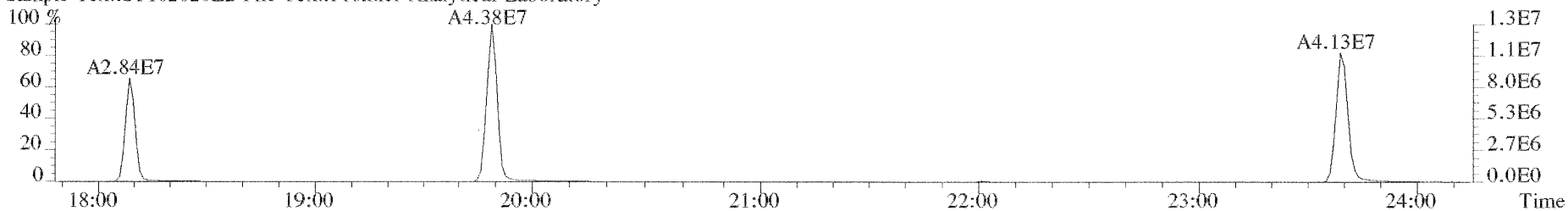

File:20OCT20Z #1-467 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
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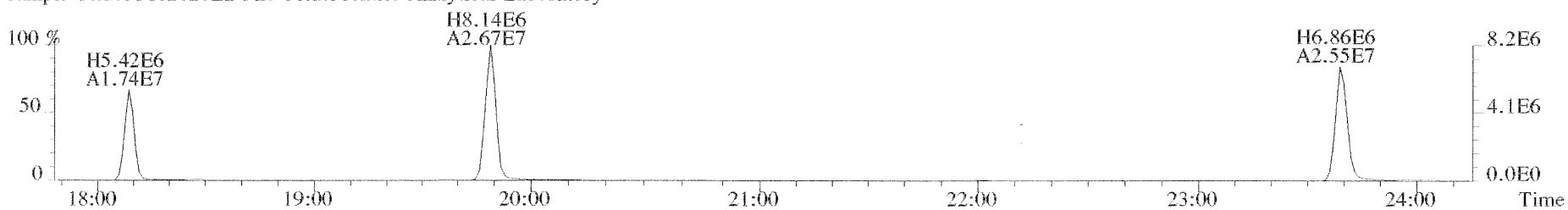
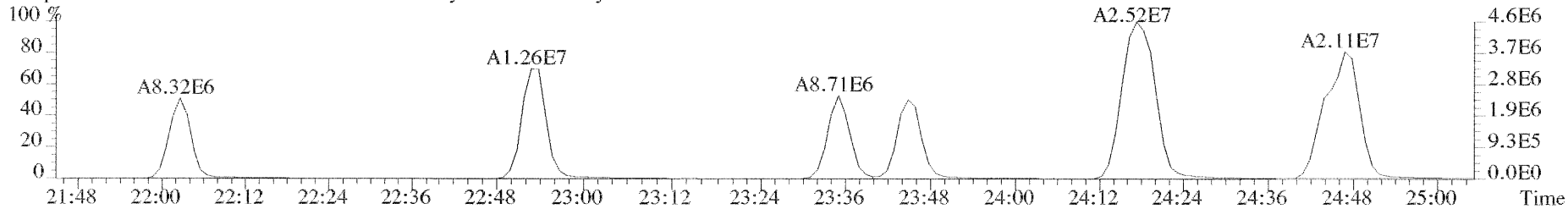
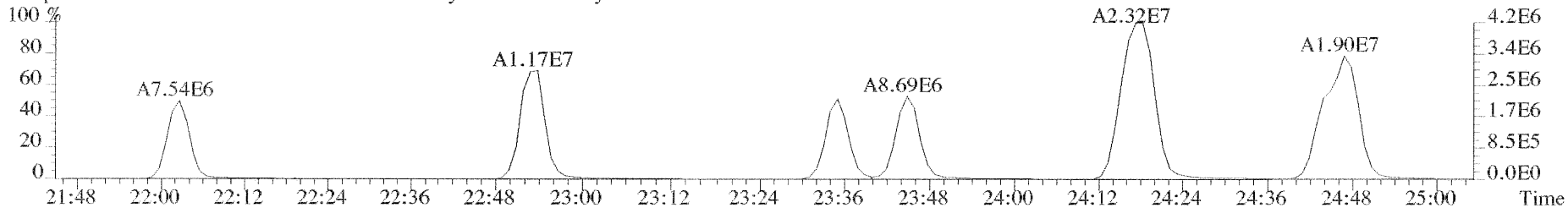


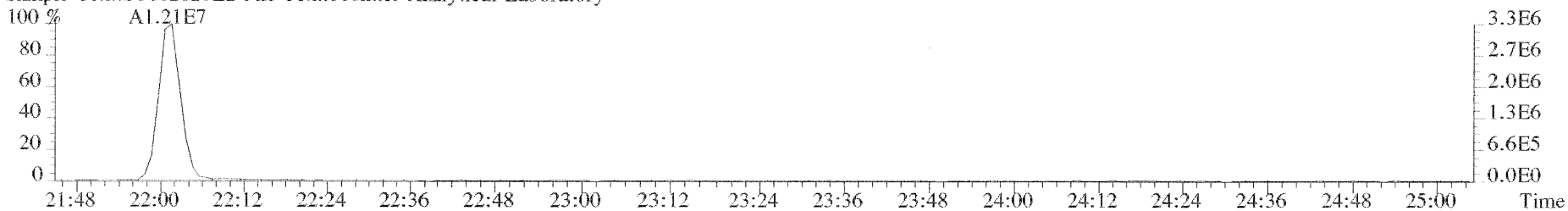
File:20OCT20Z #1-467 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



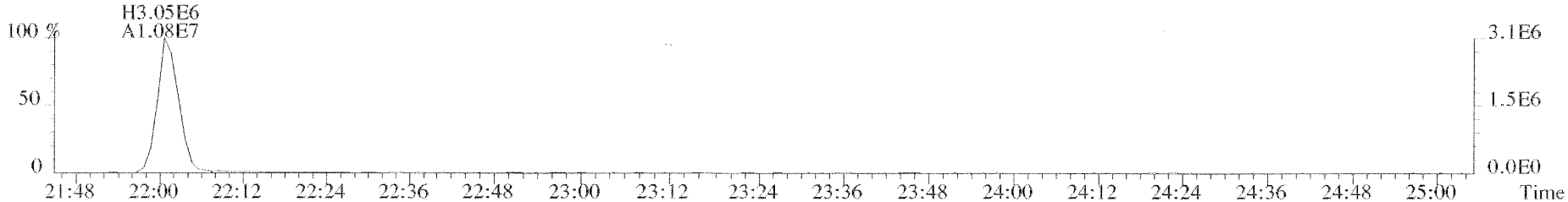
File:20OCT20Z #1-467 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



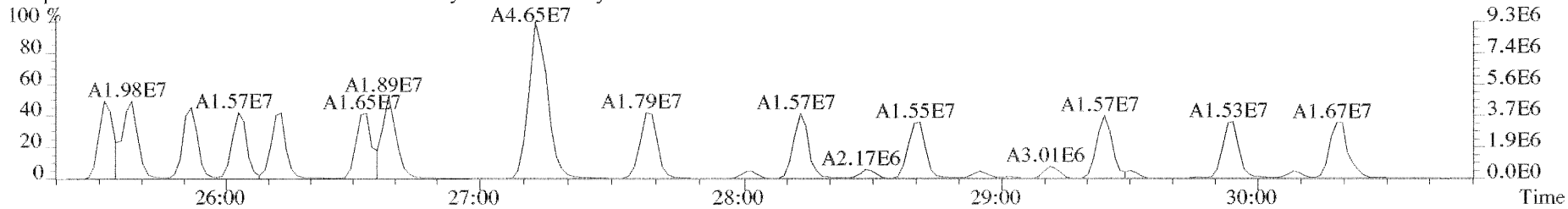
File:20OCT20Z #1-467 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



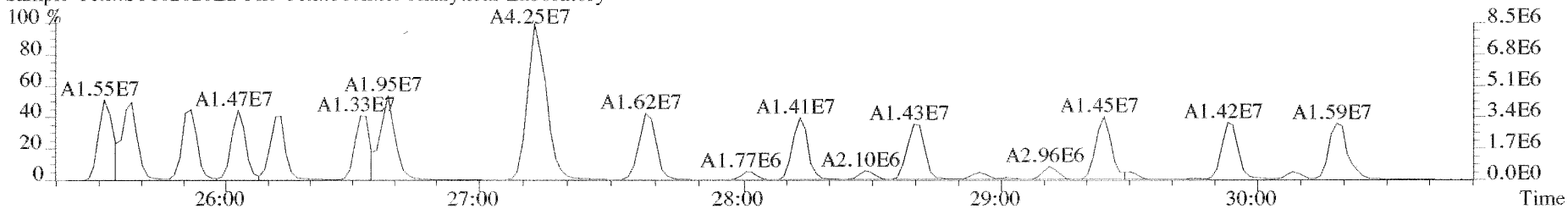
File:20OCT20Z #1-467 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



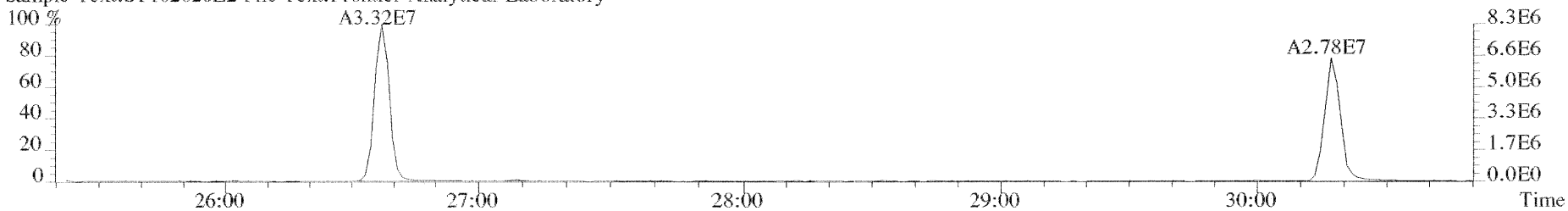
File:20OCT20Z #1-397 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-397 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-397 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



File:20OCT20Z #1-397 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
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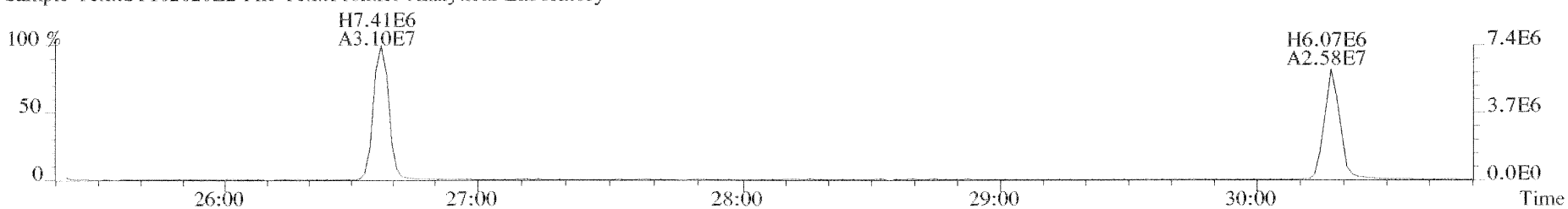
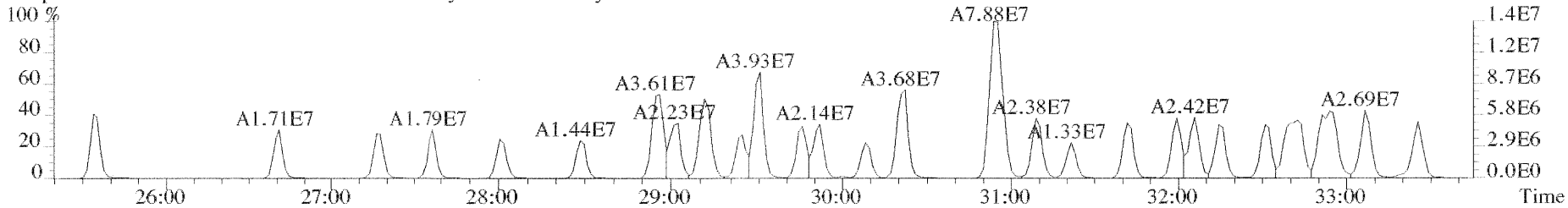
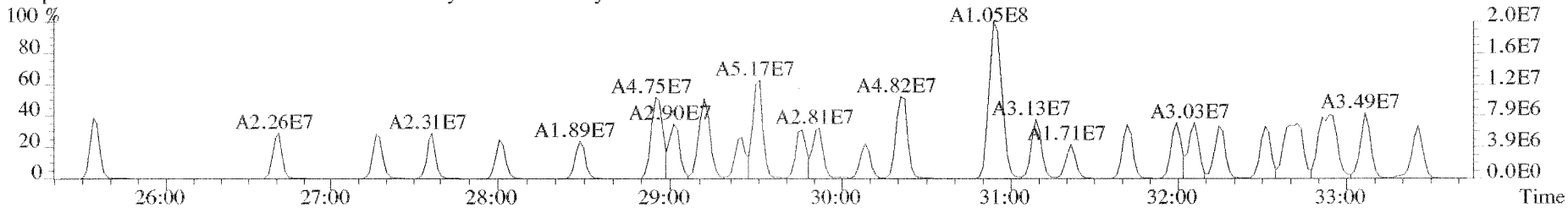
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



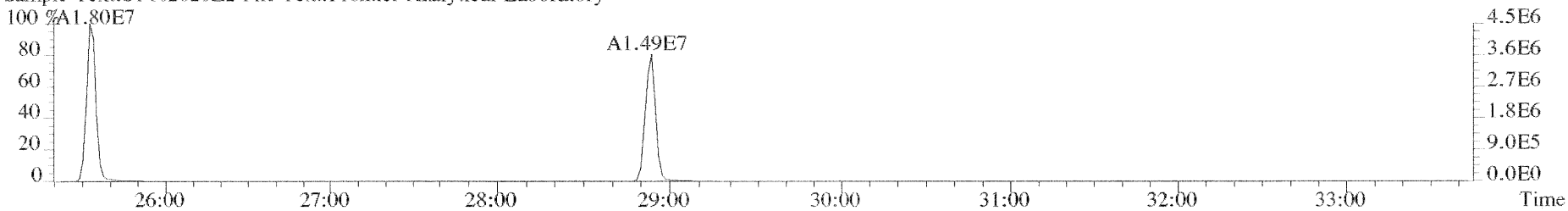
File:20OCT20Z #1-397 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



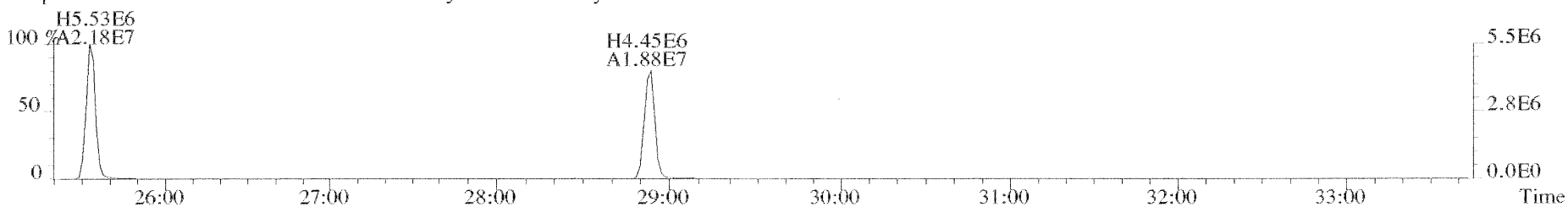
File:20OCT20Z #1-397 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



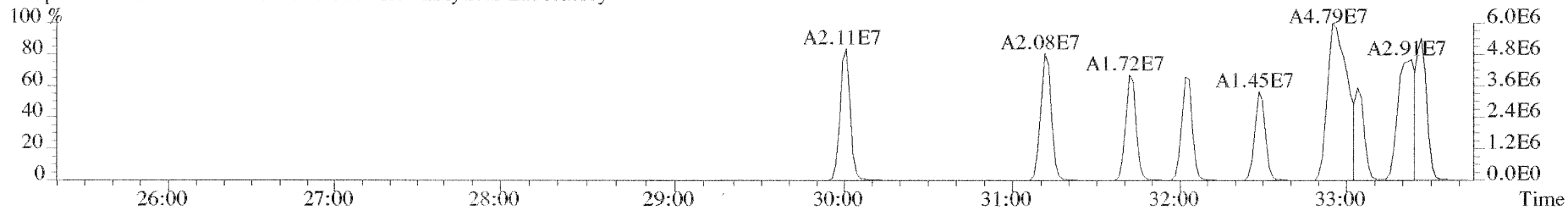
File:20OCT20Z #1-397 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



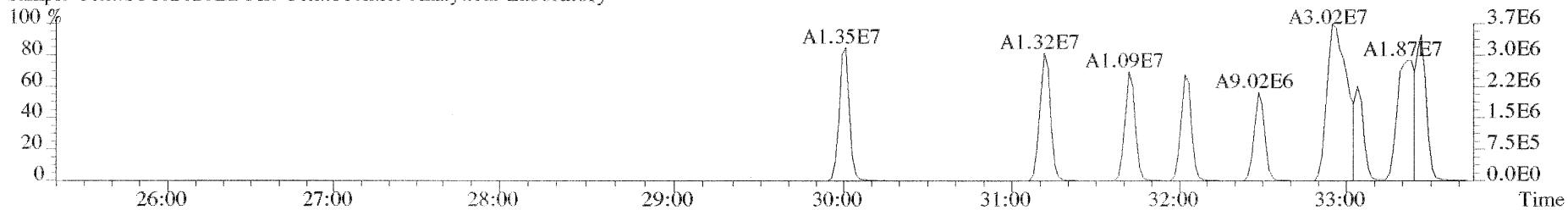
File:20OCT20Z #1-397 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



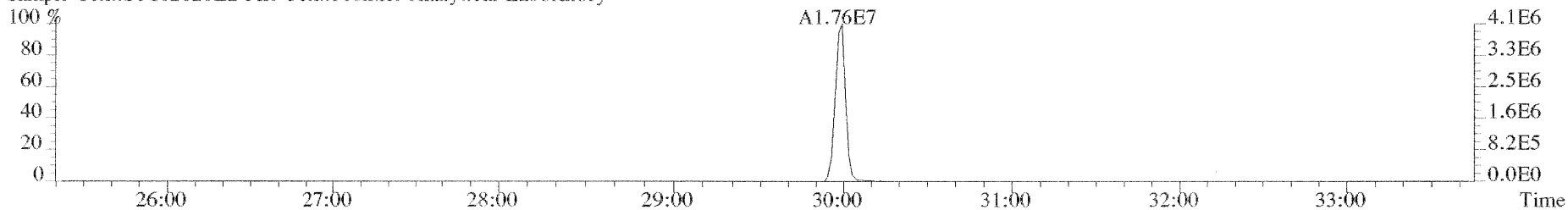
File:20OCT20Z #1-397 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



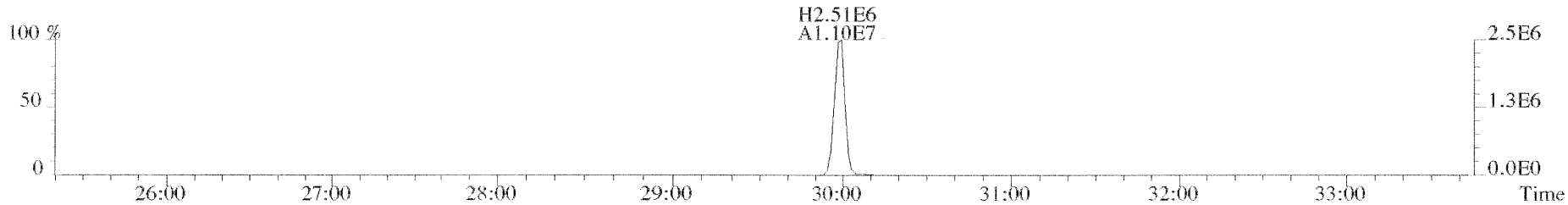
File:20OCT20Z #1-397 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



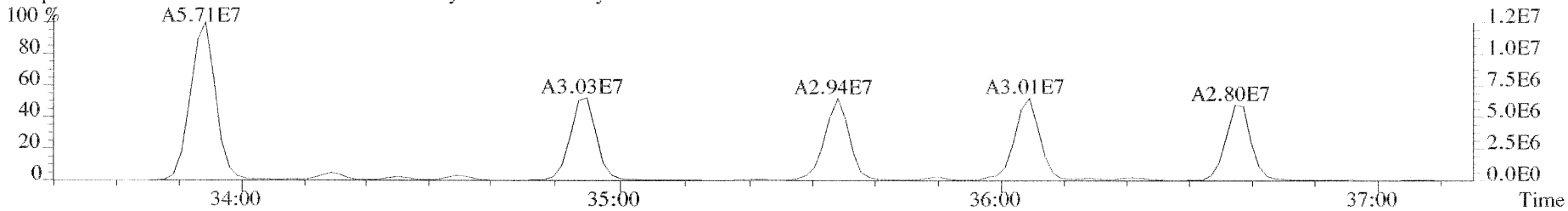
File:20OCT20Z #1-397 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



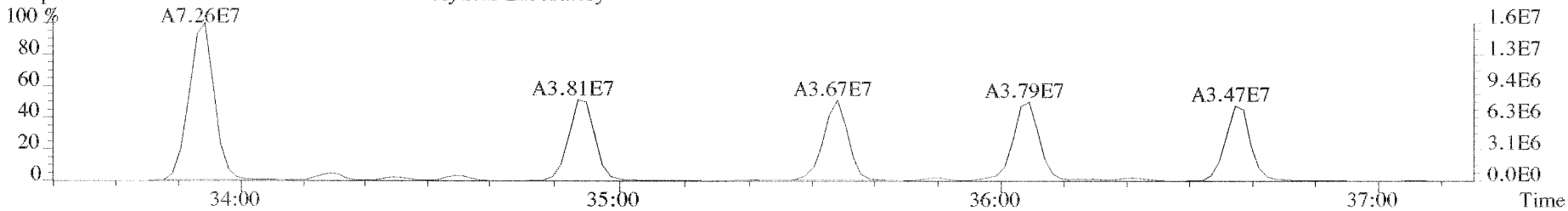
File:20OCT20Z #1-397 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



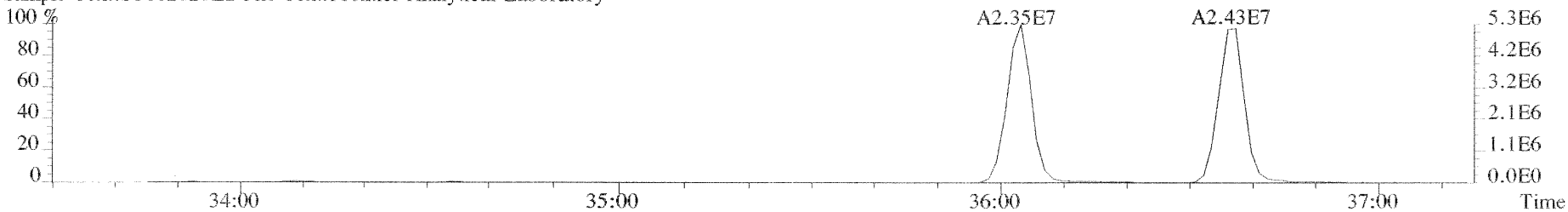
File:20OCT20Z #1-183 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



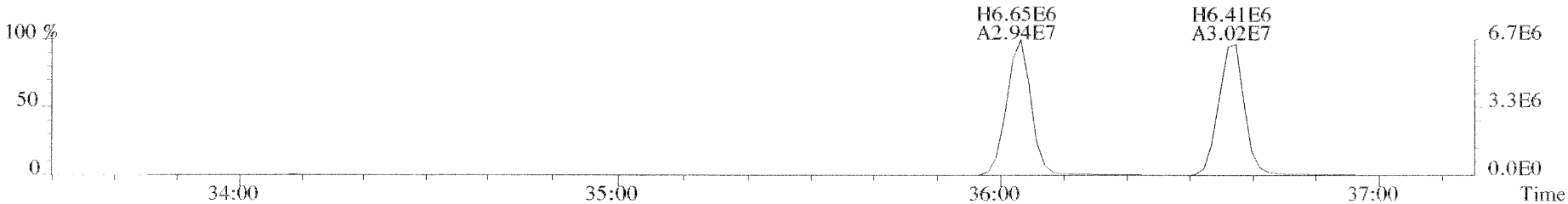
File:20OCT20Z #1-183 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



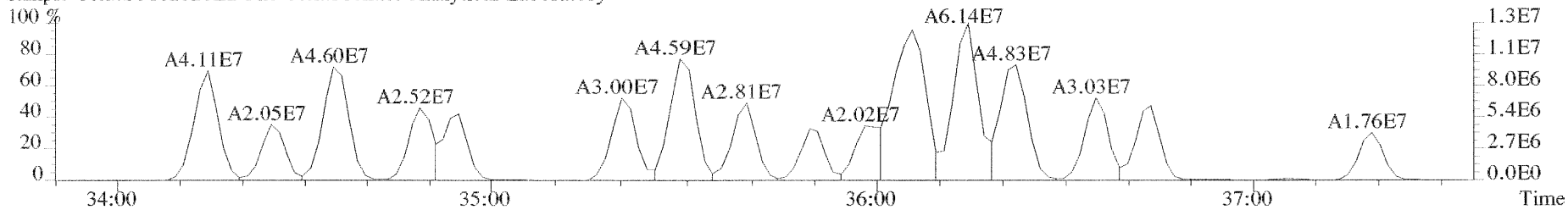
File:20OCT20Z #1-183 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



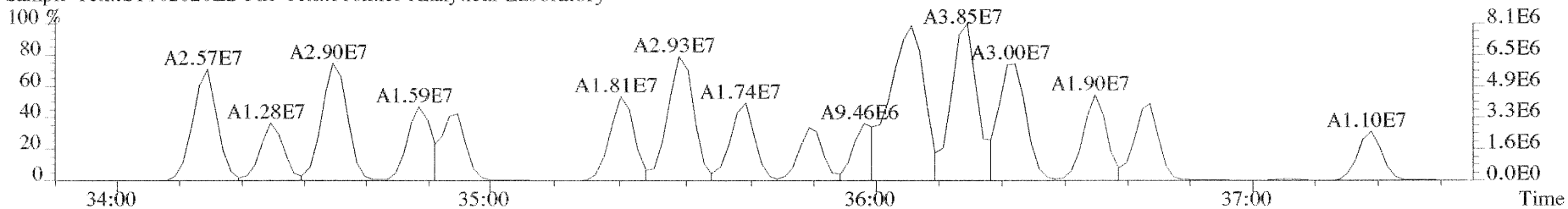
File:20OCT20Z #1-183 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



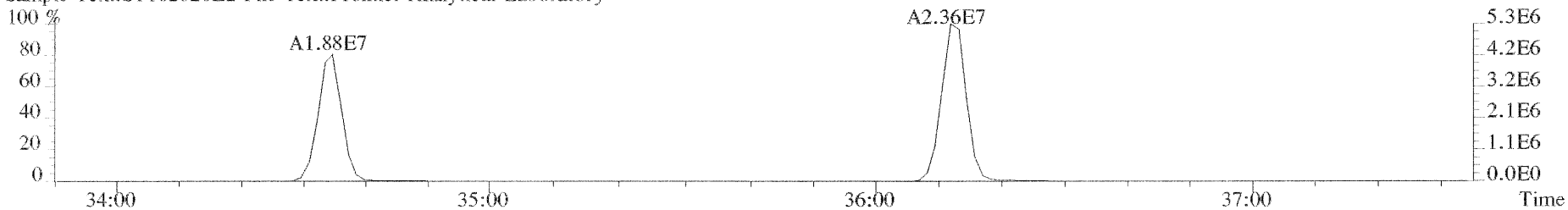
File:20OCT20Z #1-183 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



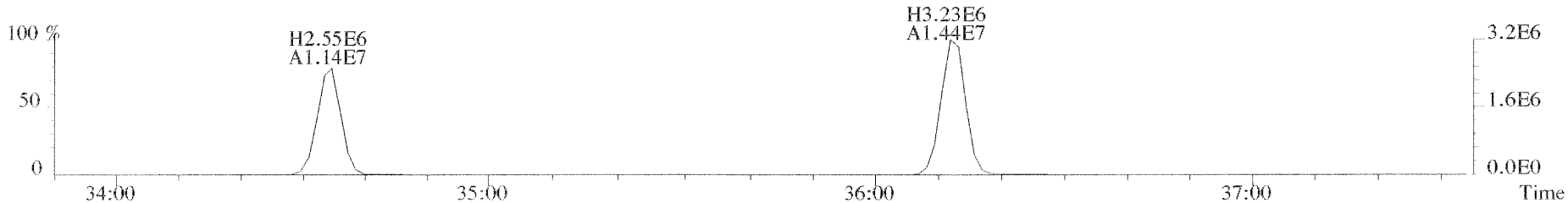
File:20OCT20Z #1-183 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



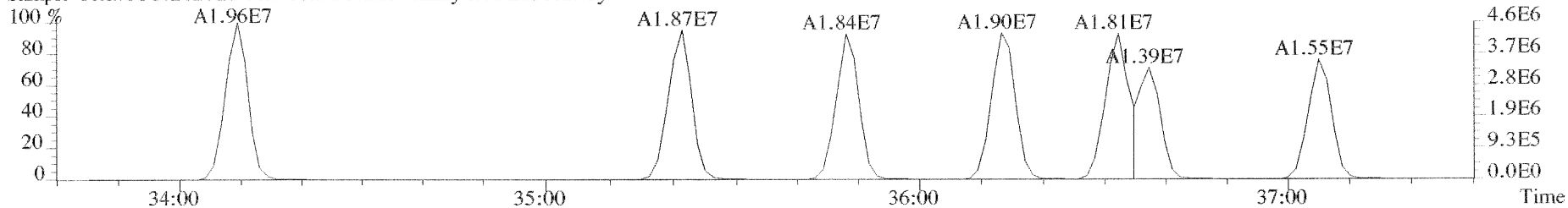
File:20OCT20Z #1-183 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



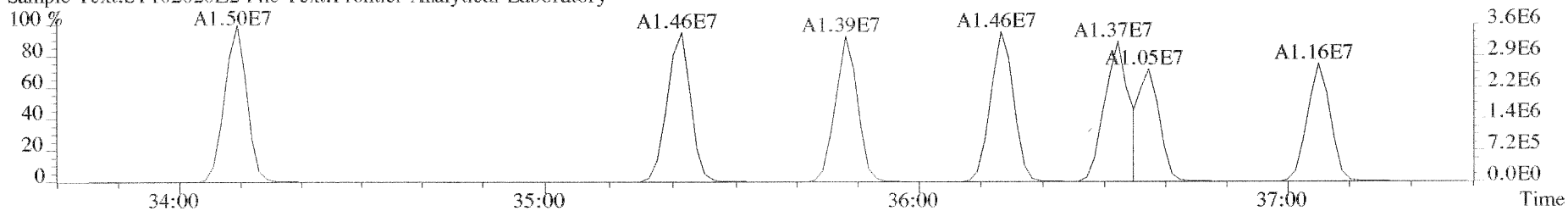
File:20OCT20Z #1-183 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



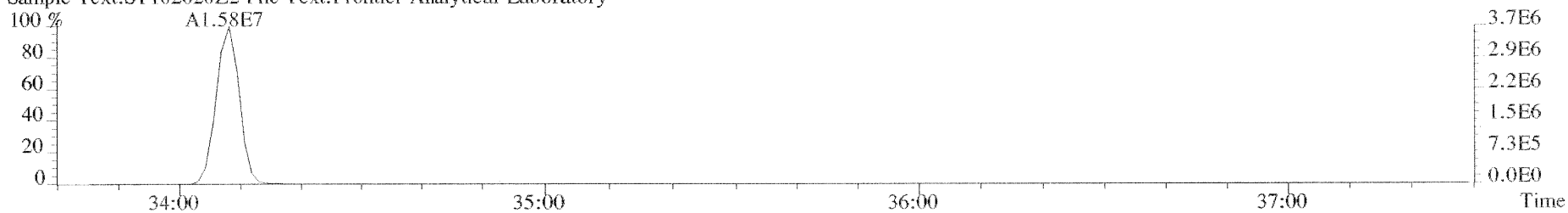
File:20OCT20Z #1-183 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



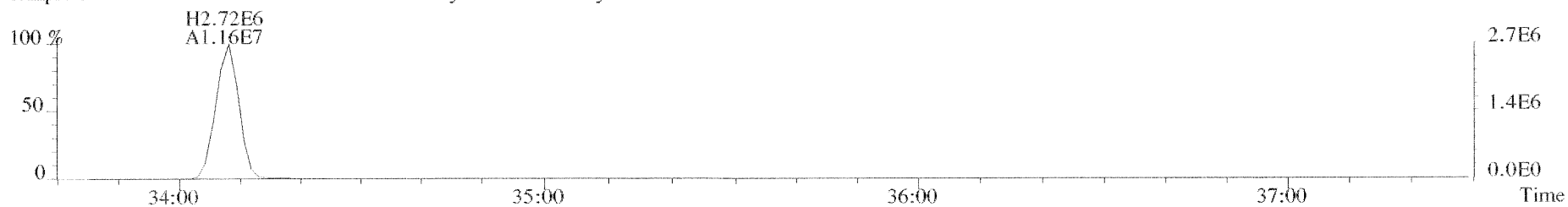
File:20OCT20Z #1-183 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



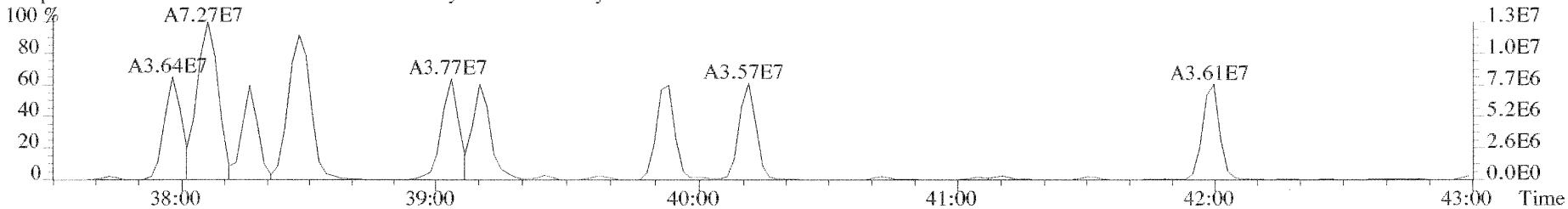
File:20OCT20Z #1-183 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



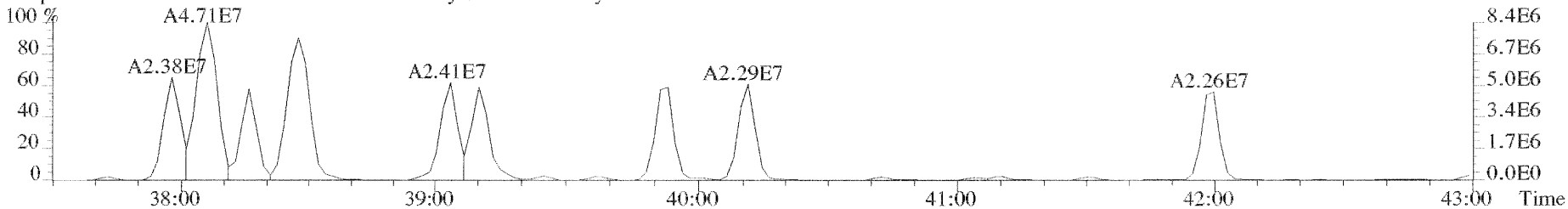
File:20OCT20Z #1-183 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



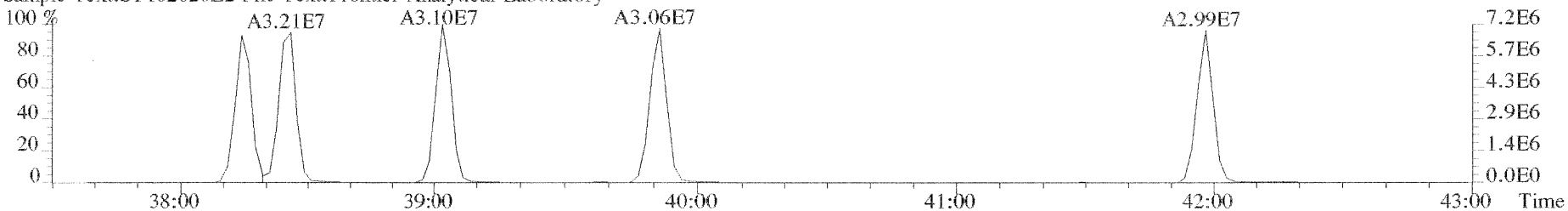
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



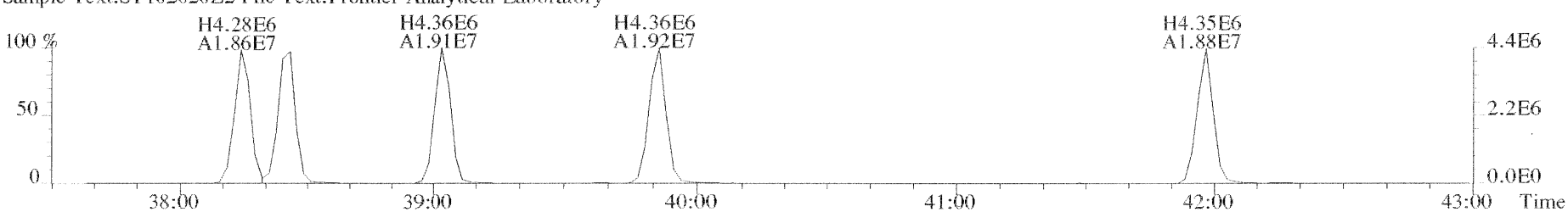
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



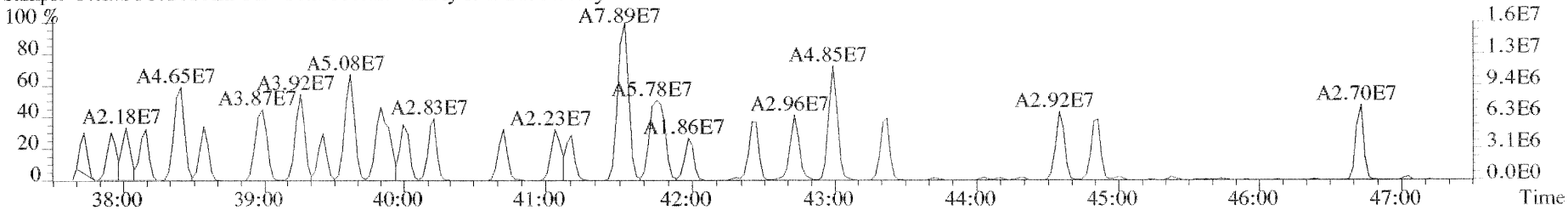
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



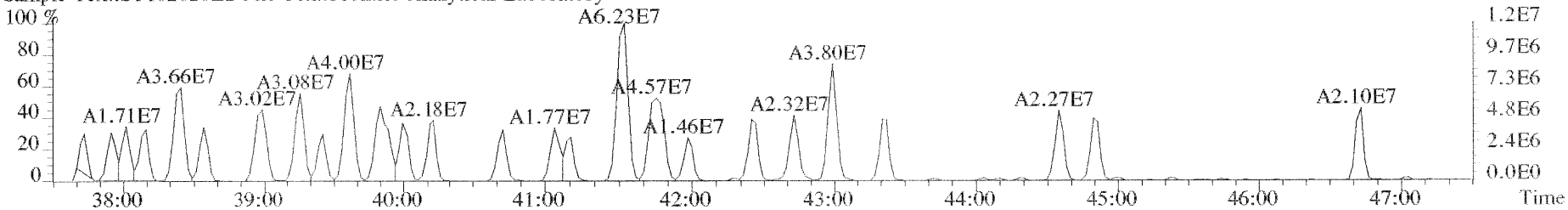
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



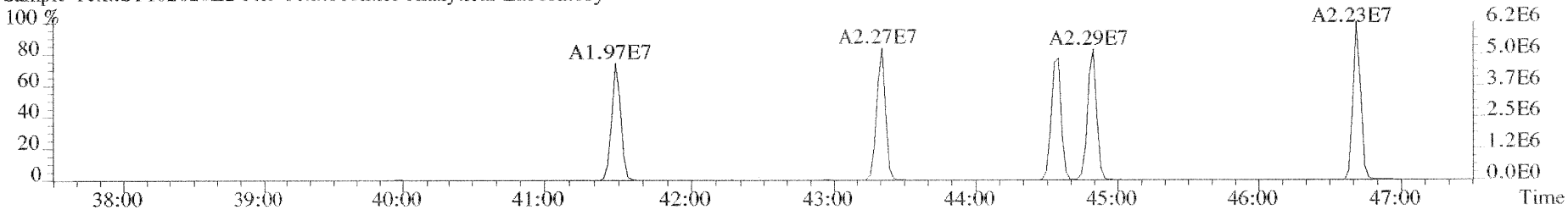
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



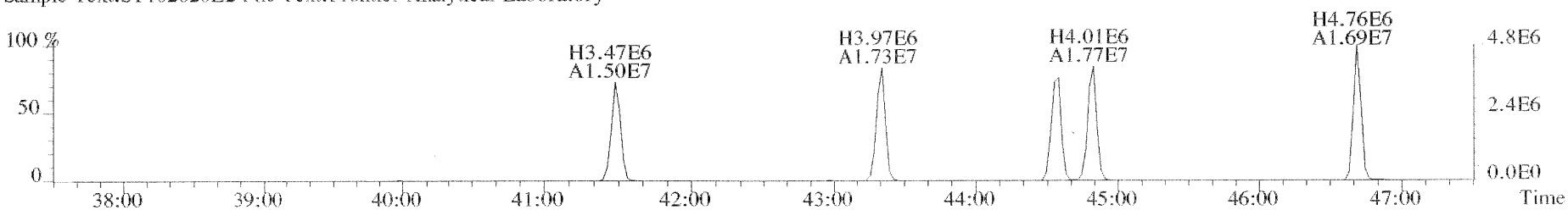
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



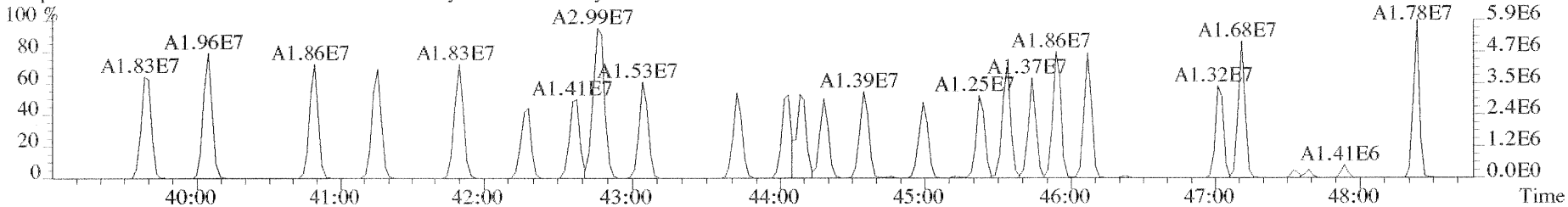
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



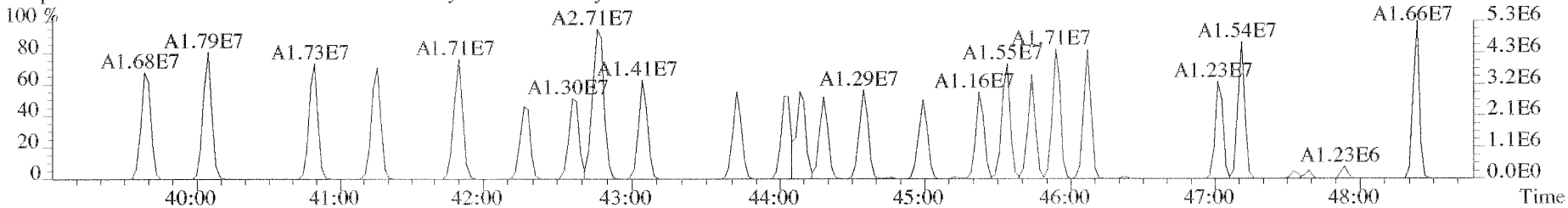
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



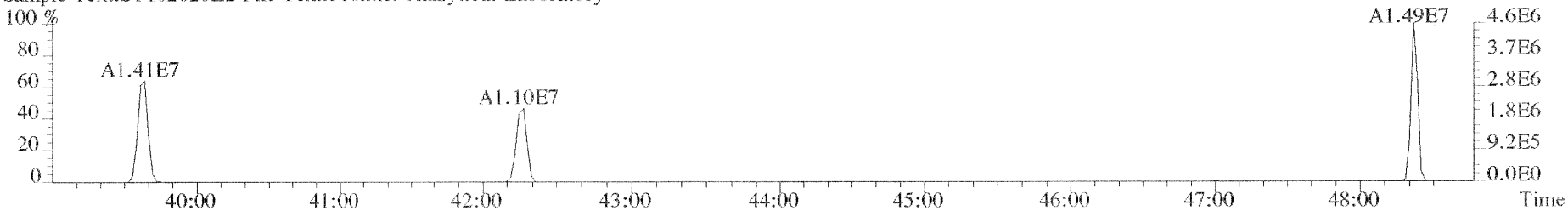
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:15 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



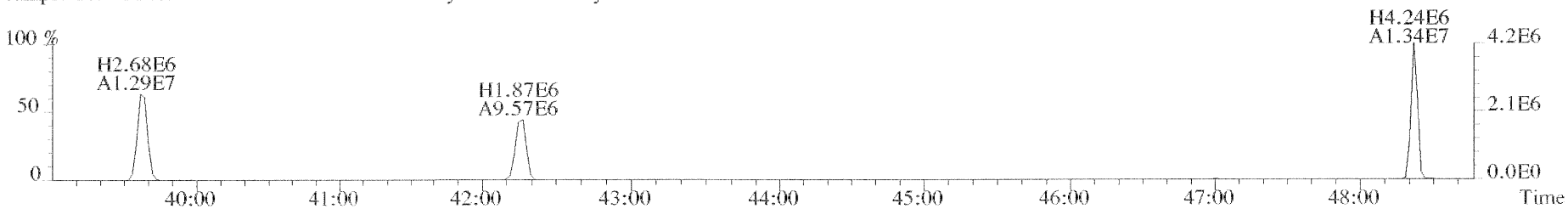
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:15 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



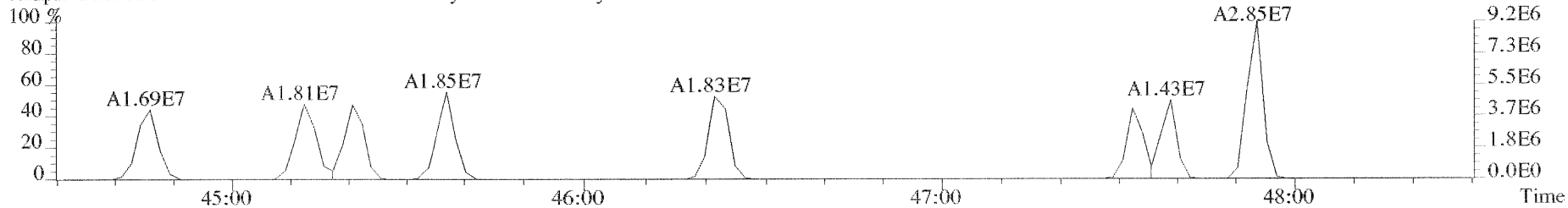
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:15 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



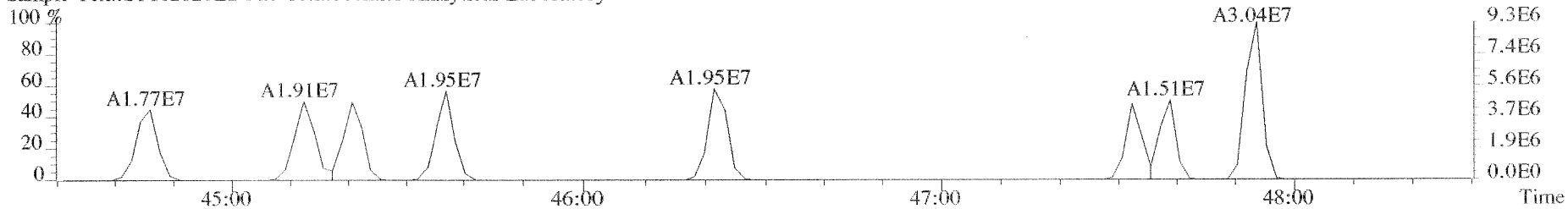
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:15 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



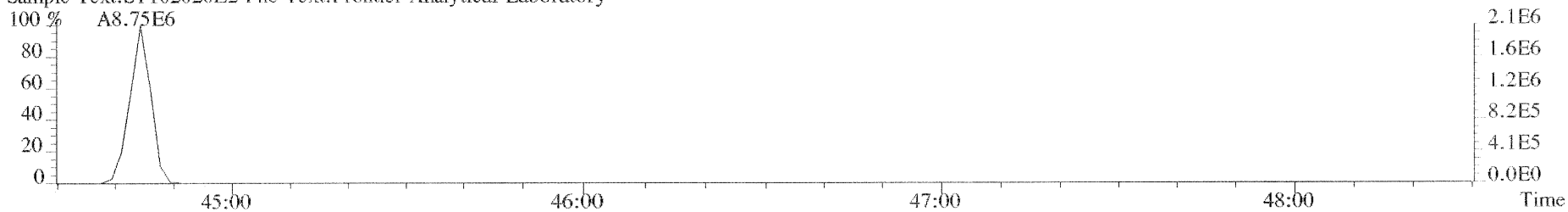
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:15 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



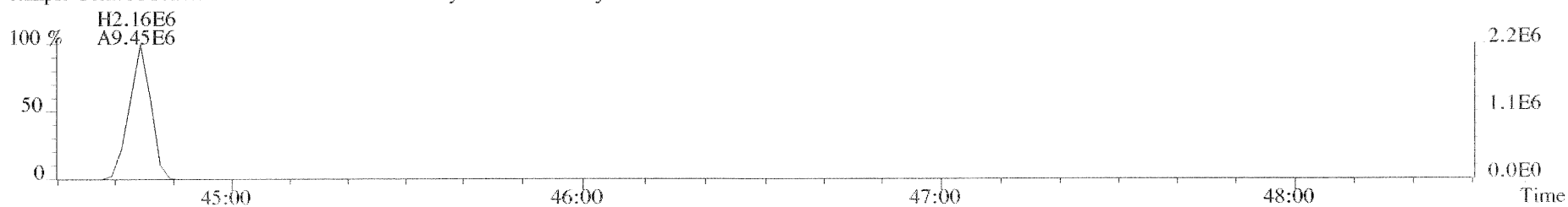
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:15 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



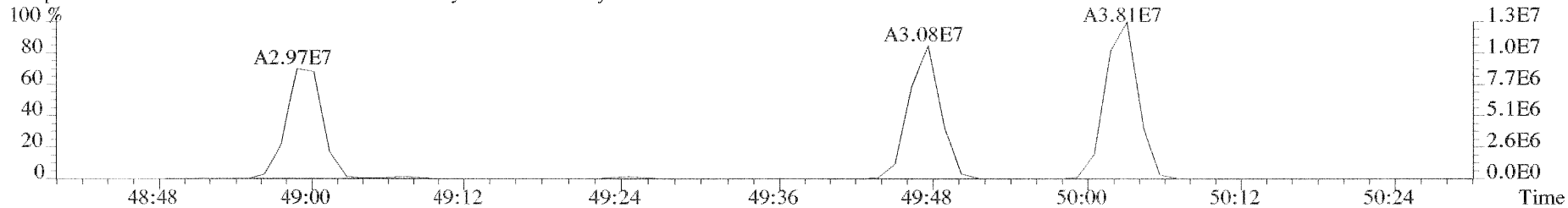
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:15 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



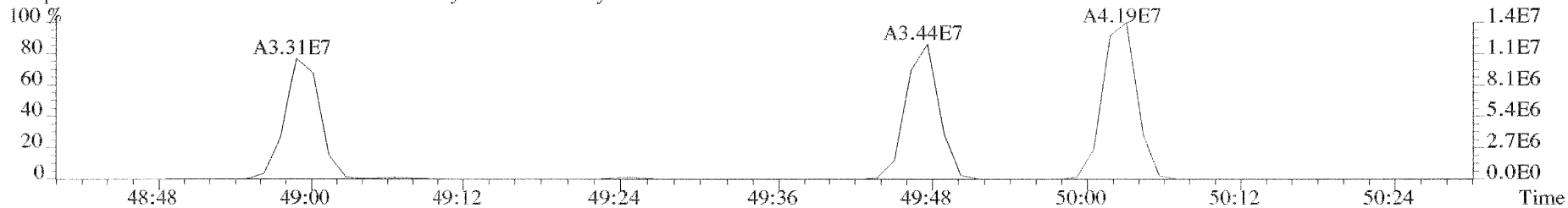
File:20OCT20Z #1-407 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:15 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



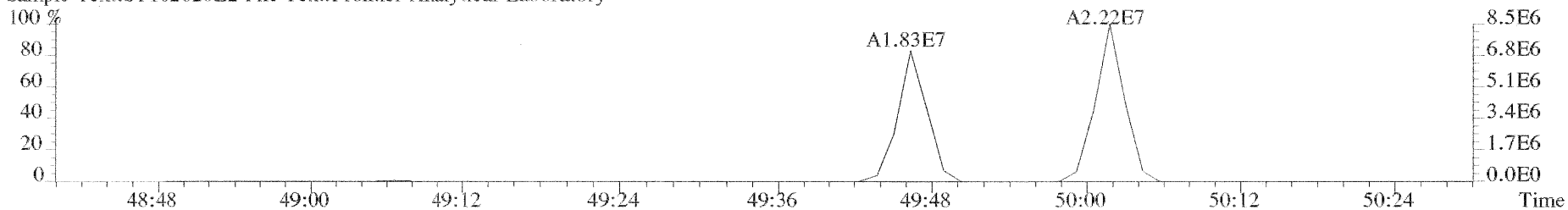
File:20OCT20Z #1-314 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



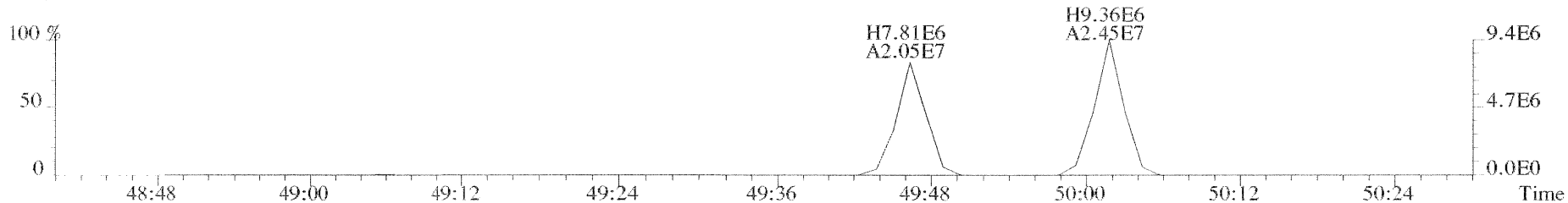
File:20OCT20Z #1-314 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



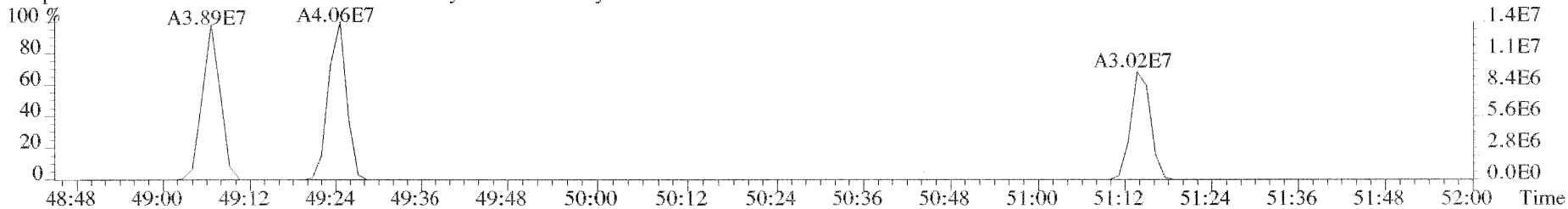
File:20OCT20Z #1-314 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



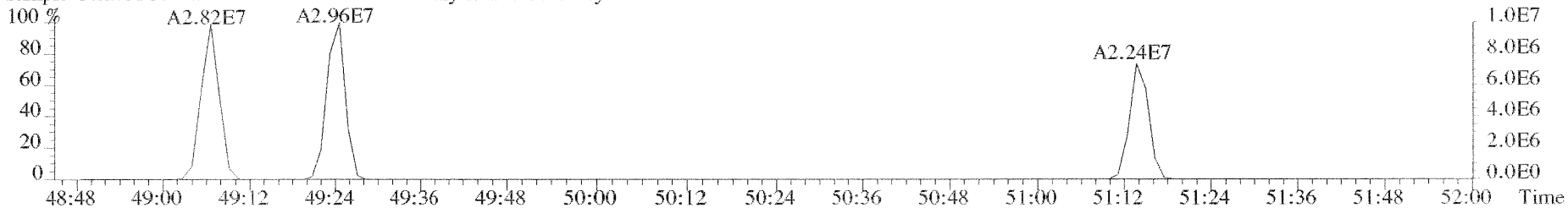
File:20OCT20Z #1-314 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



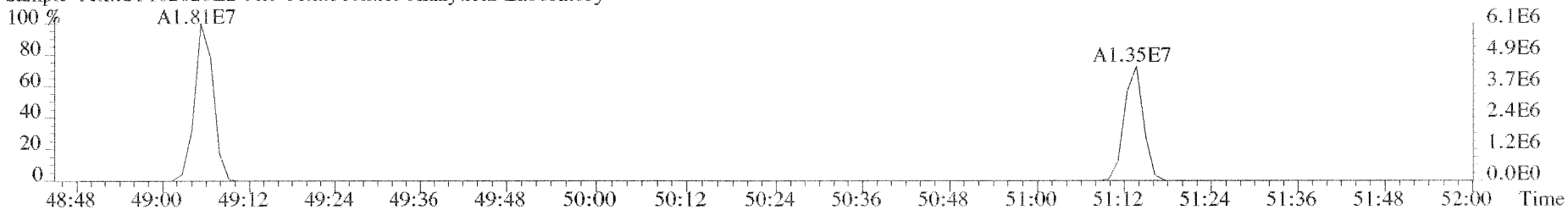
File:20OCT20Z #1-314 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



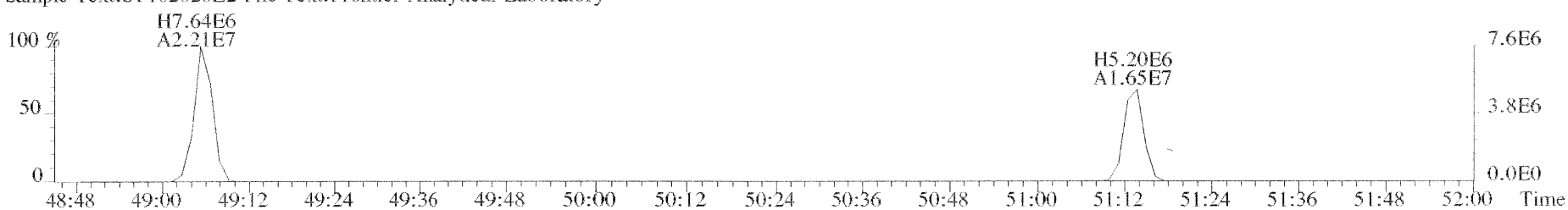
File:20OCT20Z #1-314 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



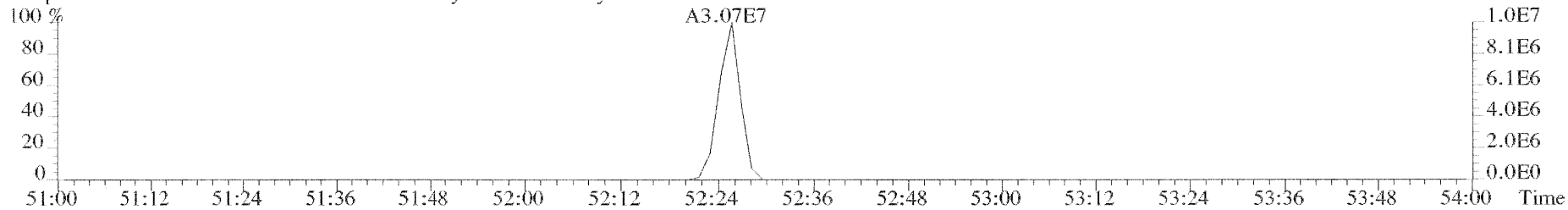
File:20OCT20Z #1-314 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



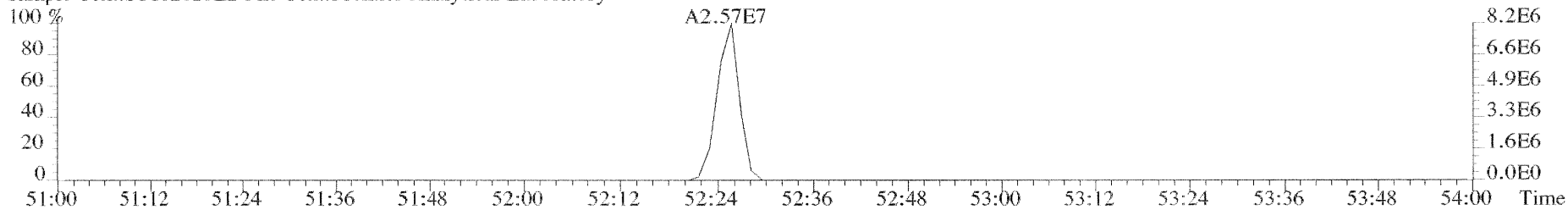
File:20OCT20Z #1-314 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



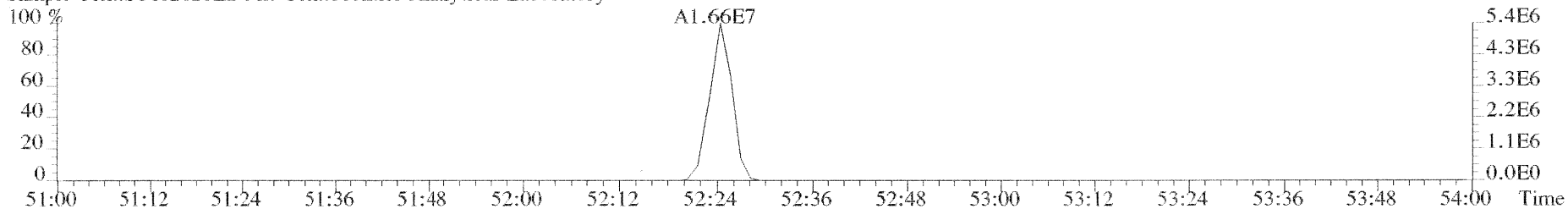
File:20OCT20Z #1-314 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



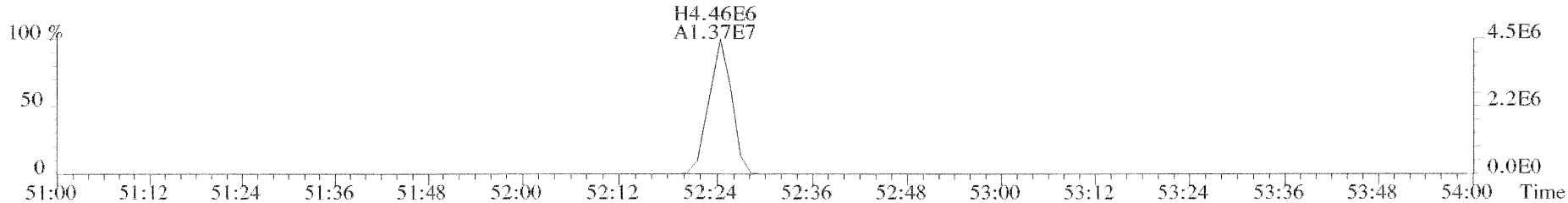
File:20OCT20Z #1-314 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory



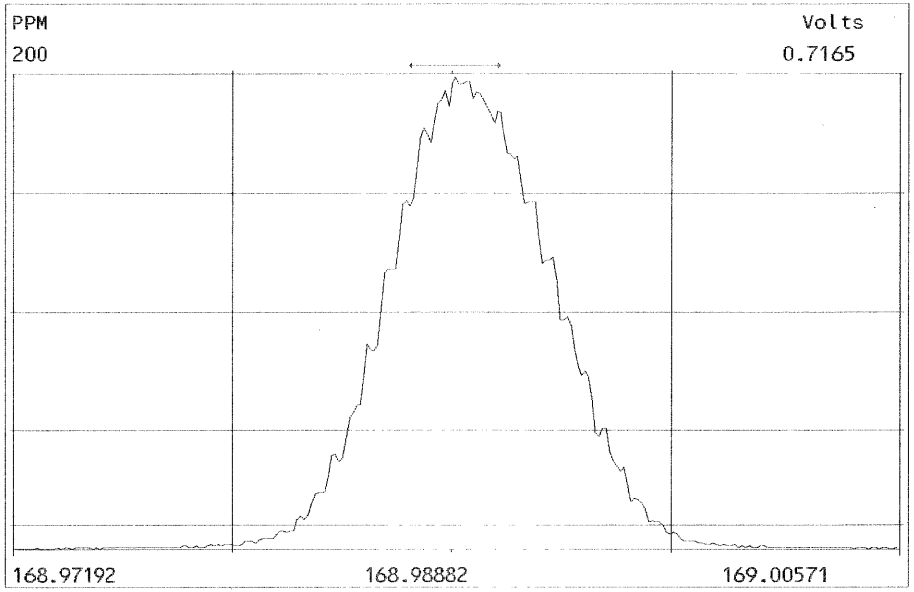
File:20OCT20Z #1-314 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory

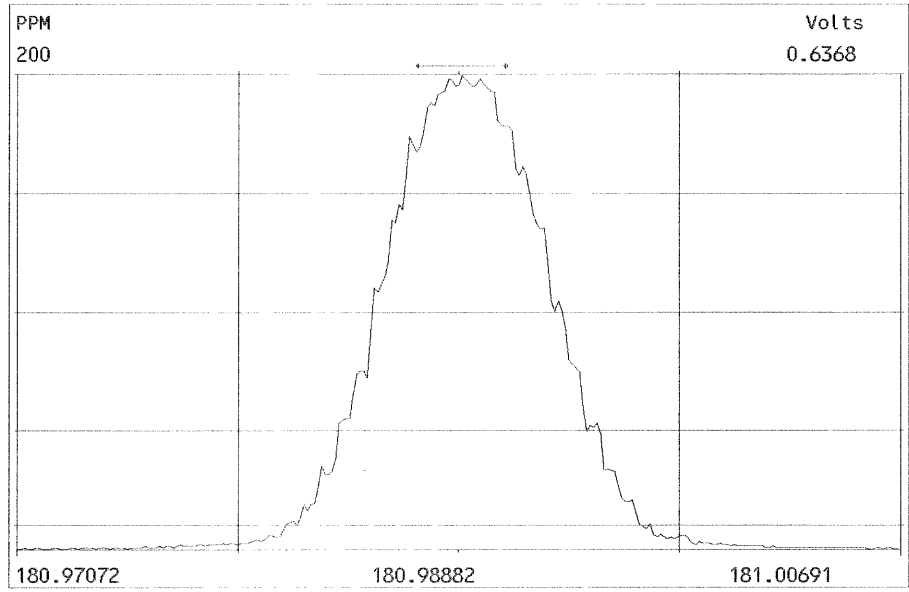


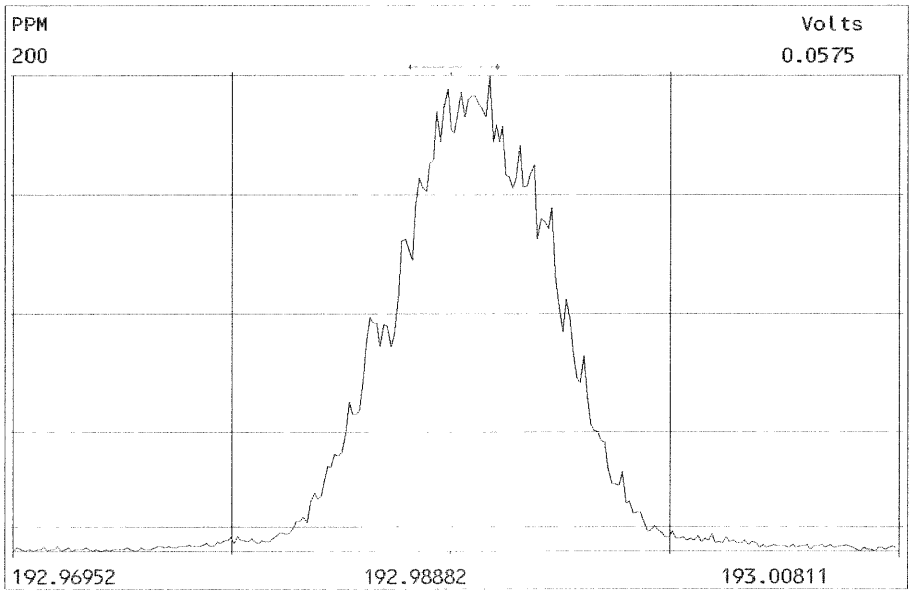
File:20OCT20Z #1-314 Acq:20-OCT-2020 22:18:04 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST102020Z2 File Text:Frontier Analytical Laboratory

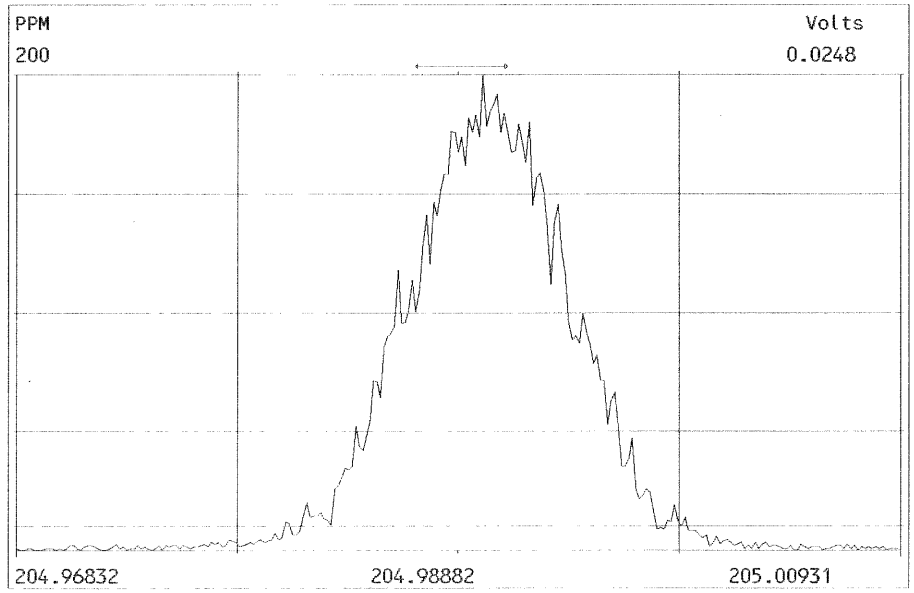


Peak Locate Examination:20-OCT-2020:23:45 File:20OCT20Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

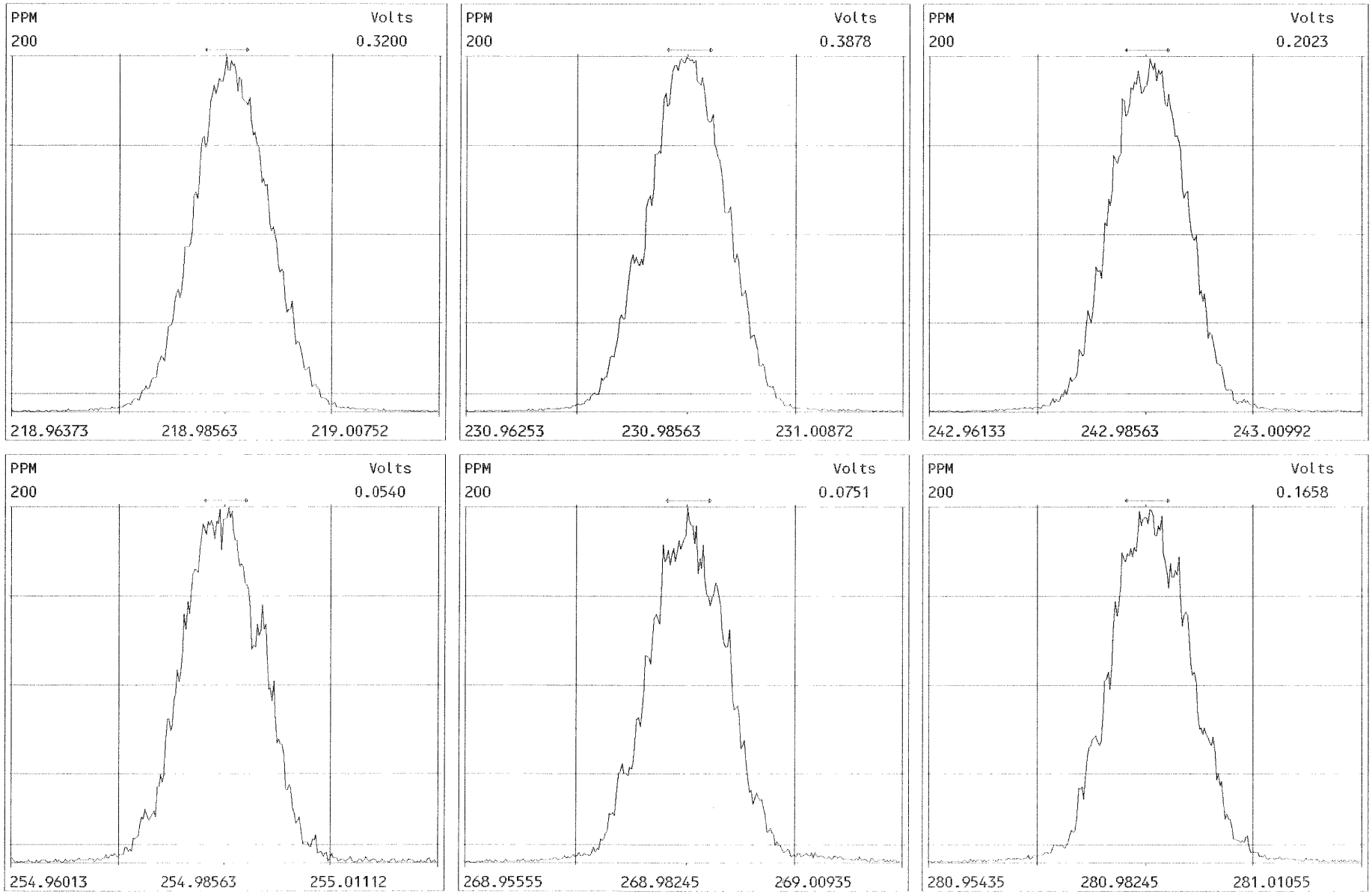




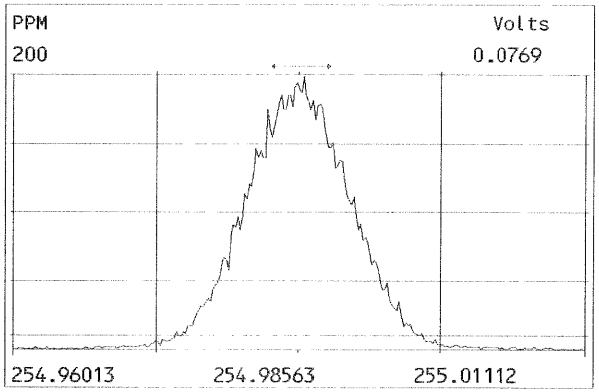


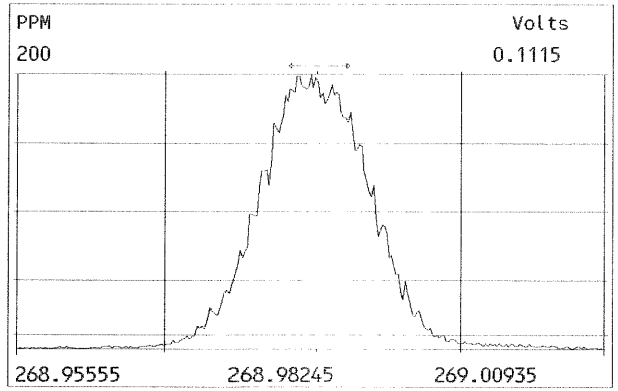


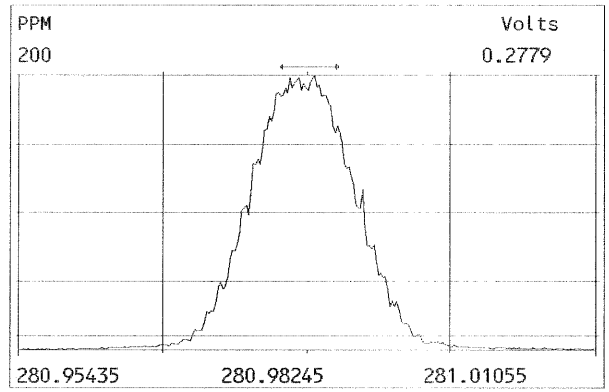
Peak Locate Examination:20-OCT-2020:23:47 File:20OCT20Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

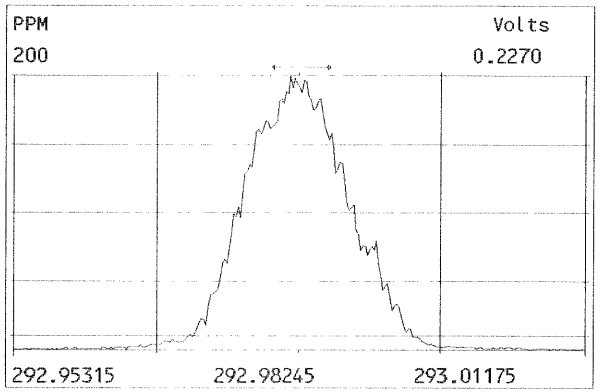


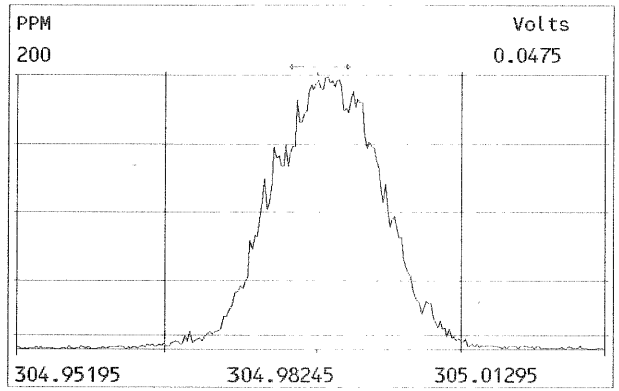
Peak Locate Examination:20-OCT-2020:23:49 File:20OCT20Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

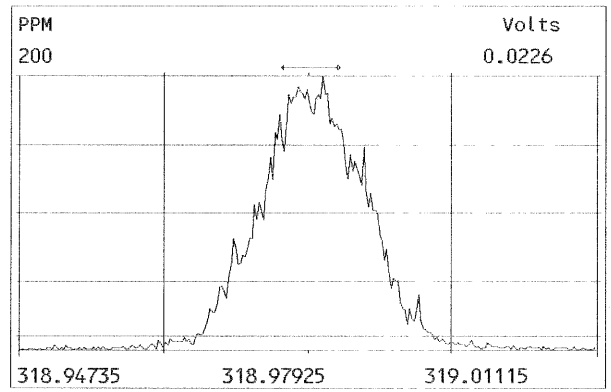


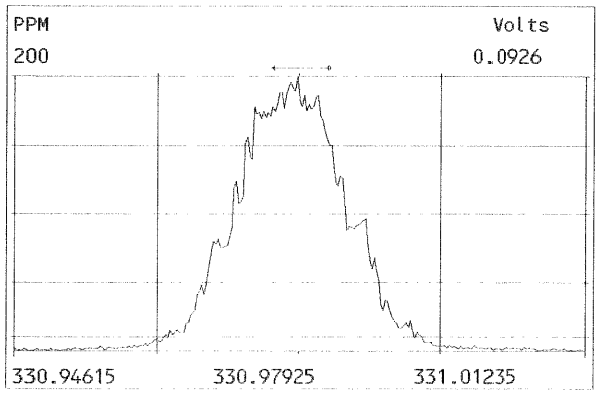


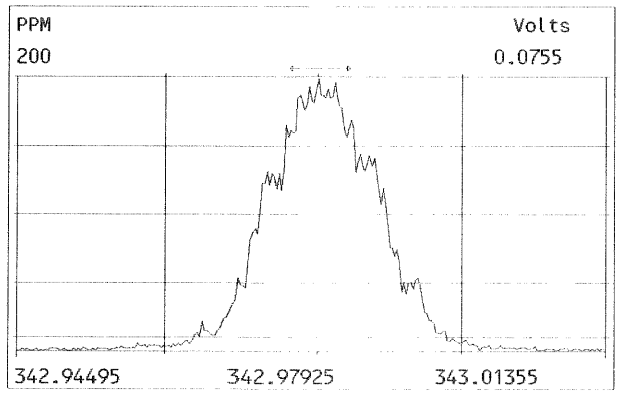




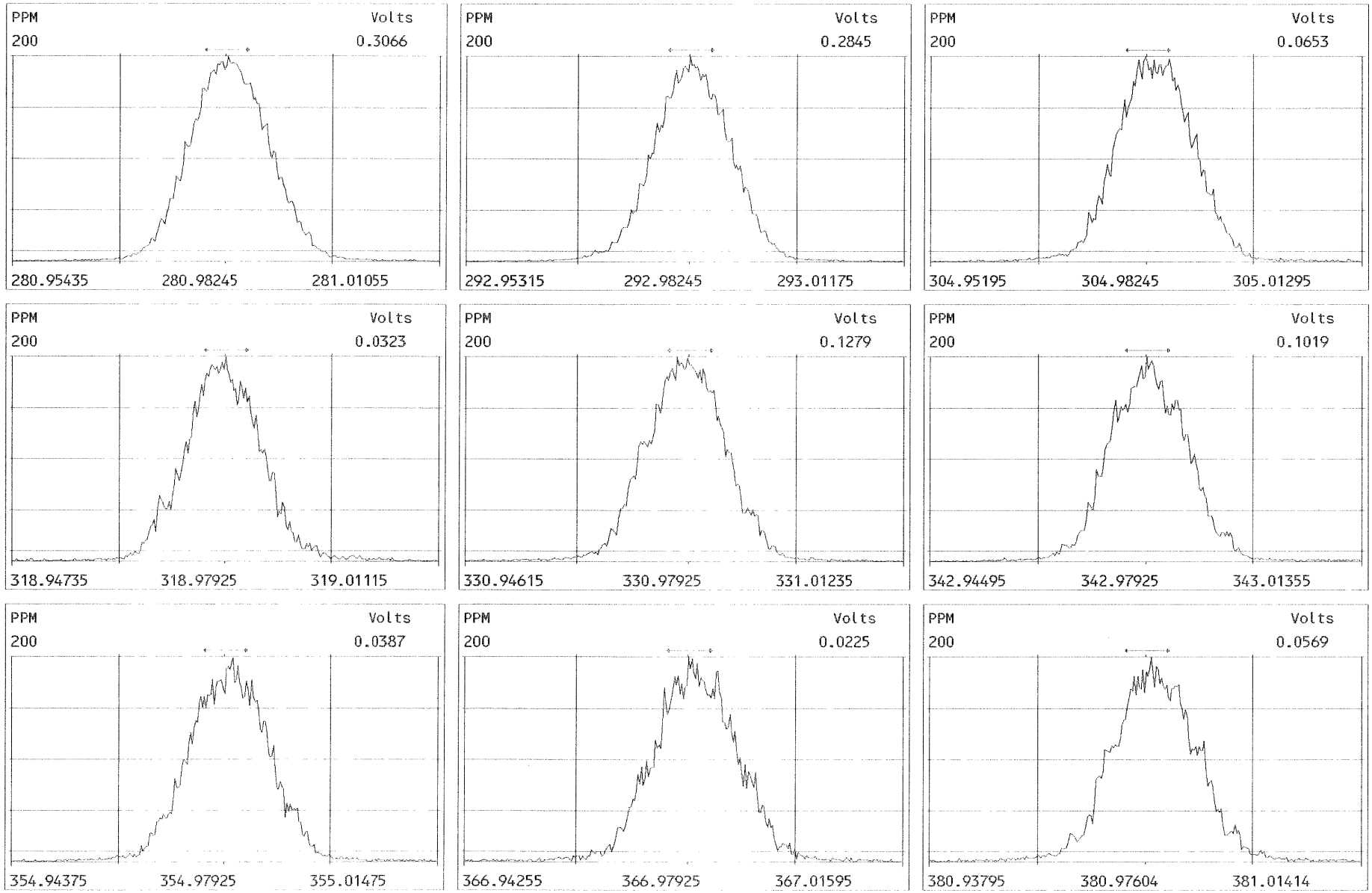




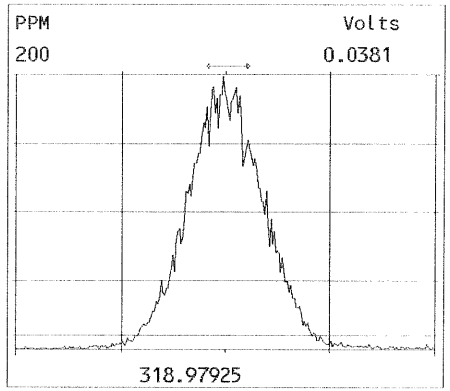


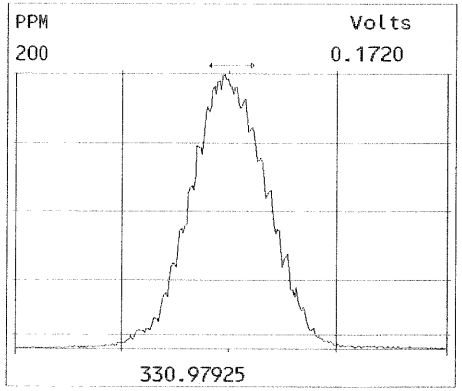


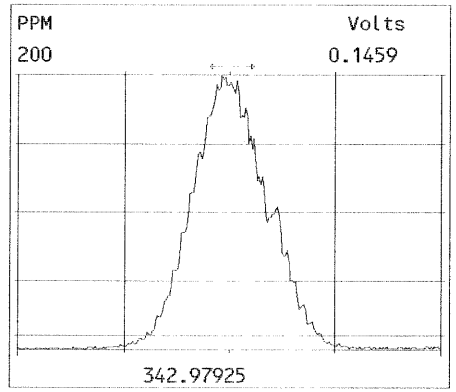
Peak Locate Examination:20-OCT-2020:23:52 File:20OCT20Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

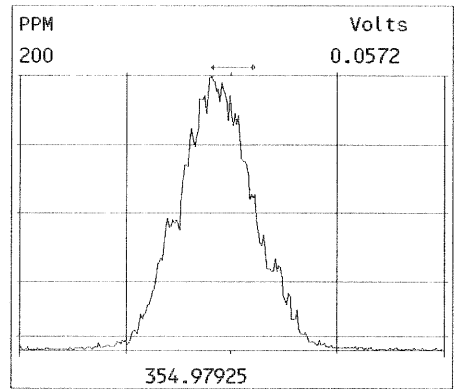


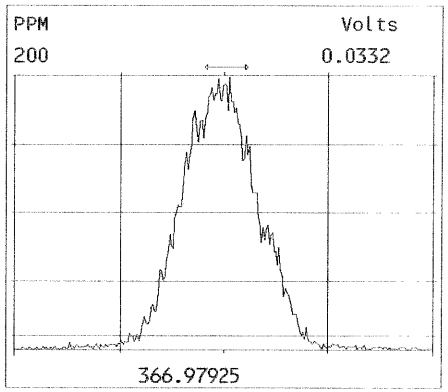
Peak Locate Examination:20-OCT-2020:23:54 File:20OCT20Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

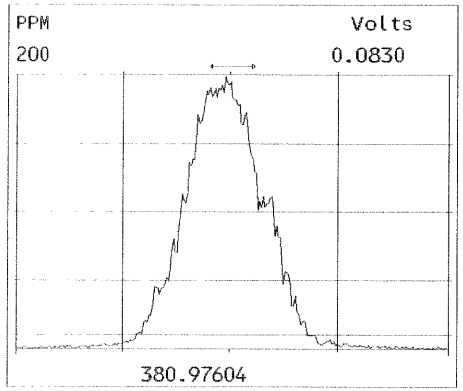


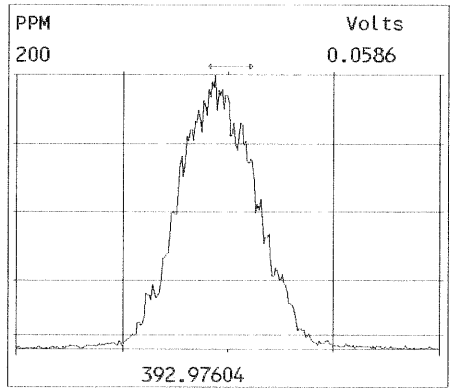


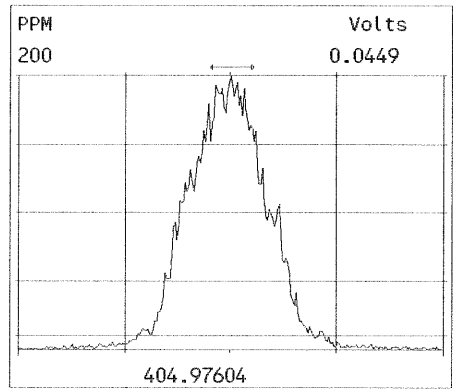


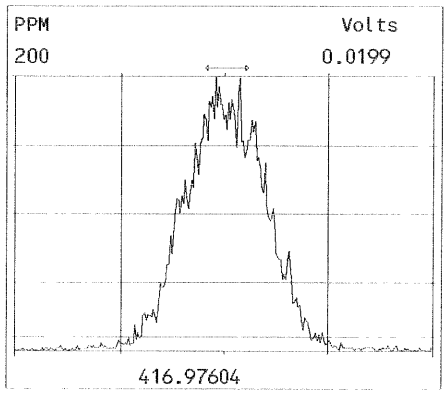


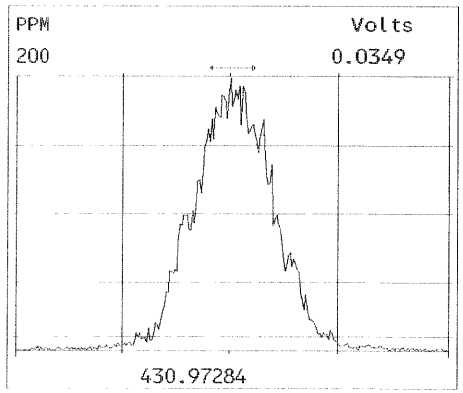


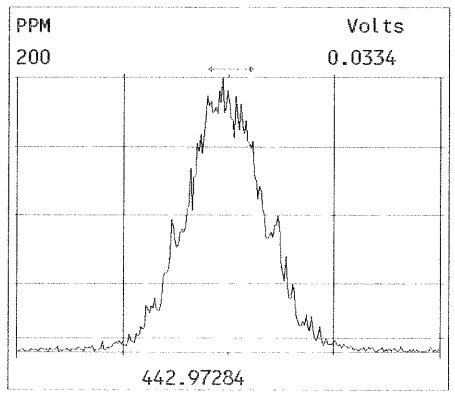




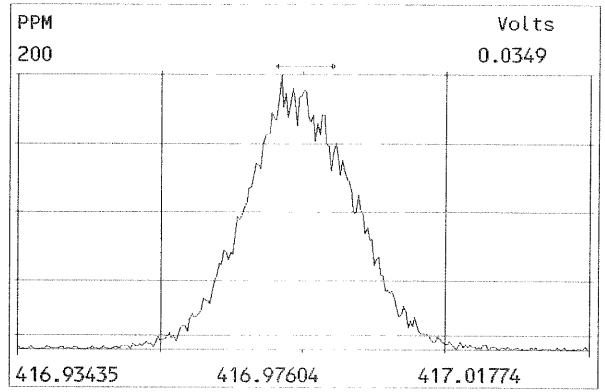


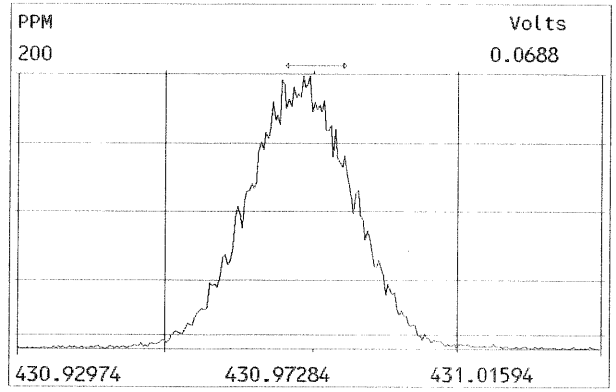


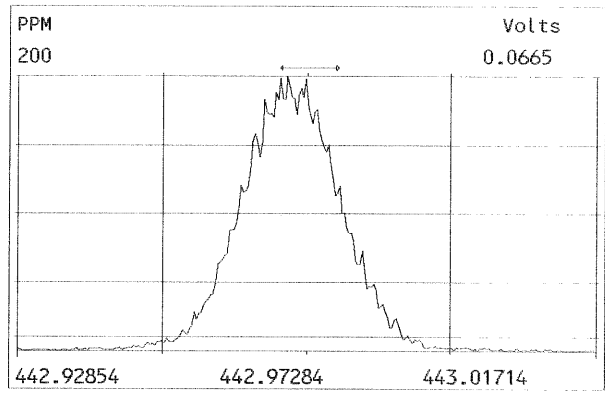


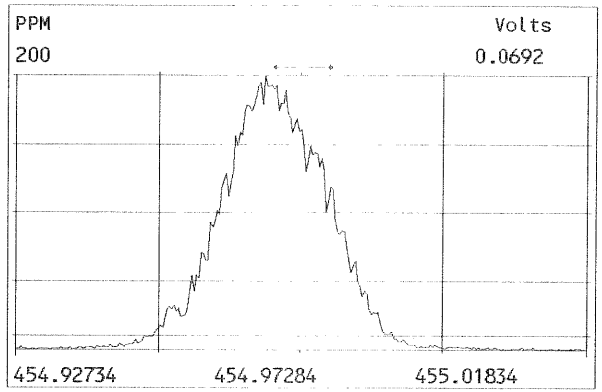


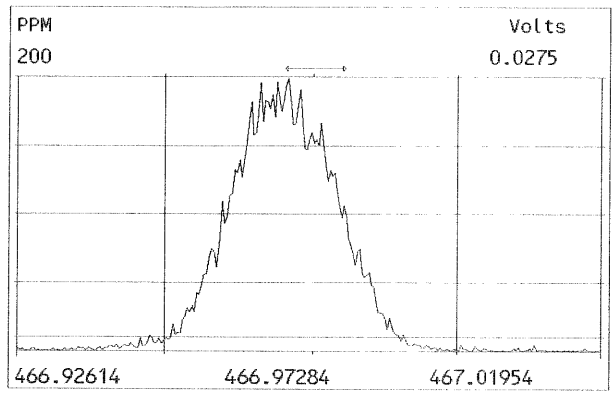
Peak Locate Examination:20-OCT-2020:23:57 File:20OCT20Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

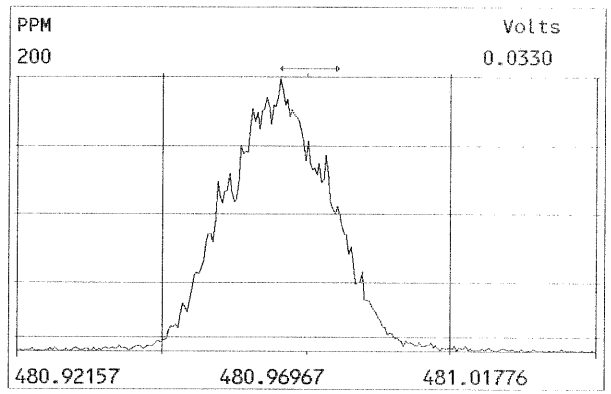


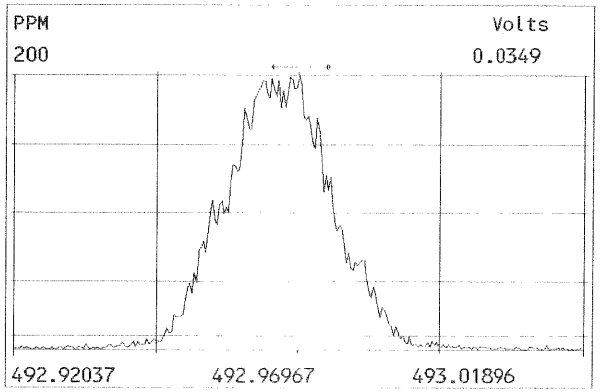


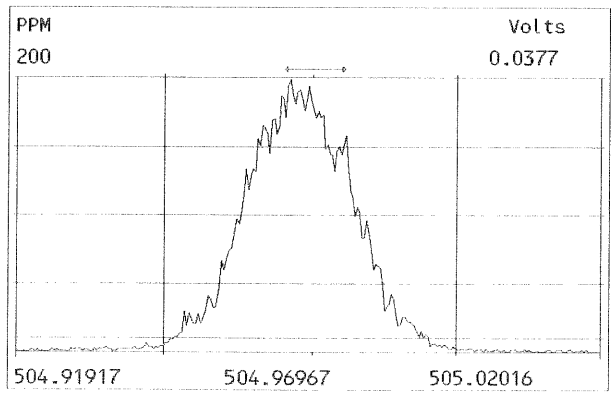


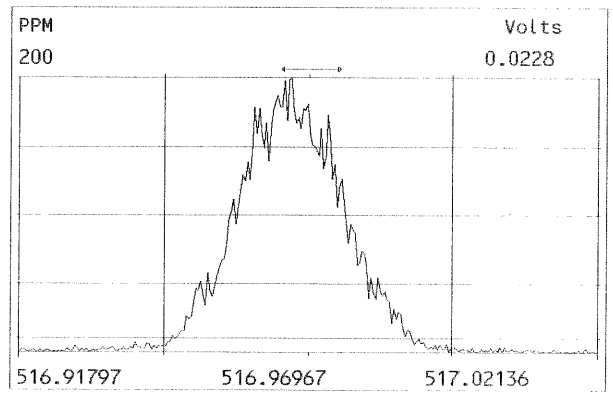












Cal: DAILY209FAL4-11-7-20

Run: 07NOV20Z Analyte: Results: 13378-7 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:07NOV20Z S1

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.3700	-	1.37	
13C-PCB-1	0.7097	-	0.71	
PCB-2	1.3857	-	1.39	
PCB-3	1.3958	-	1.40	
13C-PCB-3	0.6885	-	0.69	
PCB-4	1.0780	-	1.08	
PCB-10	1.6337	-	1.63	
13C-PCB-4	0.6536	-	0.65	
PCB-9	1.5129	-	1.51	
PCB-7	1.5346	-	1.53	
PCB-6	1.5164	-	1.52	
PCB-8	1.5051	-	1.51	
PCB-5	1.5559	-	1.56	
PCB-14	1.4704	-	1.47	
PCB-11	1.4175	-	1.42	
PCB-13	1.4278	-	1.43	
PCB-12	1.4360	-	1.44	
PCB-15	1.3147	-	1.31	
13C-PCB-15	0.9758	-	0.98	
PCB-19	1.3430	-	1.34	
PCB-30	1.9449	-	1.94	
PCB-18	1.3323	-	1.33	
PCB-17	1.4415	-	1.44	
PCB-27	1.8591	-	1.86	
PCB-24	1.8301	-	1.83	
PCB-16	1.5980	-	1.60	
PCB-32	1.7122	-	1.71	
13C-PCB-19	0.3835	-	0.38	
13C-PCB-9	-	-	-	
PCB-34	1.2625	-	1.26	
PCB-23	1.5160	-	1.52	
PCB-29	1.4032	-	1.40	
PCB-26	1.3265	-	1.33	
PCB-25	1.3064	-	1.31	
PCB-31	1.4040	-	1.40	
PCB-28	1.5521	-	1.55	
PCB-20	1.2909	-	1.29	Co-elute PCB 21/33
PCB-21	1.2909	-	1.29	Co-elute PCB 20/33
PCB-33	1.2909	-	1.29	Co-elute PCB 20/21
PCB-22	1.4783	-	1.48	
PCB-36	1.3244	-	1.32	
PCB-39	1.3210	-	1.32	
PCB-38	1.3300	-	1.33	
PCB-35	1.2386	-	1.24	
PCB-37	1.2765	-	1.28	
13C-PCB-37	1.7613	-	1.76	

PCB-54	1.3662	-	1.37	
PCB-50	1.0686	-	1.07	
PCB-53	1.0249	-	1.02	
PCB-51	1.0998	-	1.10	
PCB-45	0.9032	-	0.90	
PCB-46	0.8592	-	0.86	
PCB-52	1.0708	-	1.07	Co-elute PCB 69
PCB-69	1.0708	-	1.07	Co-elute PCB 52
PCB-73	1.3760	-	1.38	
PCB-43	0.9795	-	0.98	Co-elute PCB 49
PCB-49	0.9795	-	0.98	Co-elute PCB 43
PCB-47	1.0402	-	1.04	
PCB-48	1.2213	-	1.22	Co-elute PCB 75
PCB-75	1.2213	-	1.22	Co-elute PCB 48
PCB-65	1.2311	-	1.23	
PCB-62	1.3581	-	1.36	
PCB-44	0.8488	-	0.85	
PCB-42	1.1039	-	1.10	Co-elute PCB 59
PCB-59	1.1039	-	1.10	Co-elute PCB 42
PCB-72	1.2326	-	1.23	Co-elute PCB 41/71/64
PCB-41	1.2326	-	1.23	Co-elute PCB 72/71/64
PCB-71	1.2326	-	1.23	Co-elute PCB 72/41/64
PCB-64	1.2326	-	1.23	Co-elute PCB 72/41/71
PCB-68	1.4023	-	1.40	
PCB-40	0.7799	-	0.78	
PCB-57	1.3346	-	1.33	
PCB-67	1.2254	-	1.23	
PCB-58	1.4435	-	1.44	
PCB-63	1.3451	-	1.35	
PCB-74	1.2813	-	1.28	
PCB-61	1.2350	-	1.23	Co-elute PCB 70
PCB-70	1.2350	-	1.23	Co-elute PCB 61
PCB-76	1.3765	-	1.38	Co-elute PCB 66
PCB-66	1.3765	-	1.38	Co-elute PCB 76
PCB-80	1.5806	-	1.58	
PCB-55	1.3629	-	1.36	
13C-PCB-54	1.2097	-	1.21	
PCB-104	1.2196	-	1.22	
PCB-96	1.1788	-	1.18	
PCB-103	0.9650	-	0.97	
PCB-100	0.9929	-	0.99	
PCB-94	0.8186	-	0.82	
PCB-98	0.8569	-	0.86	Co-elute PCB 102
PCB-102	0.8569	-	0.86	Co-elute PCB 98
PCB-95	0.8667	-	0.87	
PCB-93	0.8553	-	0.86	
PCB-88	0.8971	-	0.90	Co-elute PCB 91
PCB-91	0.8971	-	0.90	Co-elute PCB 88
PCB-121	1.1855	-	1.19	
13C-PCB-104	0.7809	-	0.78	
13C-PCB-28	2.1941	-	2.19	
13C-PCB-52	-	-	-	

PCB-56	1.2502	-	1.25	Co-elute PCB 60
PCB-60	1.2502	-	1.25	Co-elute PCB 56
PCB-79	1.3132	-	1.31	
PCB-78	1.2675	-	1.27	
PCB-81	1.3283	-	1.33	
13C-PCB-81	1.8374	-	1.84	
PCB-77	1.1694	-	1.17	
13C-PCB-77	1.8929	-	1.89	
PCB-155	1.1609	-	1.16	
PCB-150	1.1007	-	1.10	
PCB-152	1.0899	-	1.09	
PCB-145	1.1158	-	1.12	
PCB-136	1.0604	-	1.06	
PCB-148	0.8645	-	0.86	
PCB-154	0.9404	-	0.94	
13C-PCB-155	1.0199	-	1.02	
13C-PCB-111	1.3120	-	1.31	
13C-PCB-101	-	-	-	
PCB-84	0.6929	-	0.69	Co-elute PCB 92
PCB-92	0.6929	-	0.69	Co-elute PCB 84
PCB-89	0.6831	-	0.68	
PCB-90	0.7636	-	0.76	Co-elute PCB 101
PCB-101	0.7636	-	0.76	Co-elute PCB 90
PCB-113	0.8129	-	0.81	
PCB-99	0.8852	-	0.89	
PCB-119	0.9686	-	0.97	
PCB-83	0.7572	-	0.76	Co-elute PCB 112
PCB-112	0.7572	-	0.76	Co-elute PCB 83
PCB-109	0.9456	-	0.95	
PCB-97	0.6621	-	0.66	
PCB-86	0.6668	-	0.67	
PCB-125	0.8597	-	0.86	Co-elute PCB 87/117
PCB-87	0.8597	-	0.86	Co-elute PCB 125/117
PCB-117	0.8597	-	0.86	Co-elute PCB 125/87
PCB-111	0.9865	-	0.99	Co-elute PCB 115
PCB-115	0.9865	-	0.99	Co-elute PCB 111
PCB-85	0.8267	-	0.83	Co-elute PCB 116
PCB-116	0.8267	-	0.83	Co-elute PCB 85
PCB-120	1.0037	-	1.00	
PCB-110	0.9882	-	0.99	
PCB-82	0.5819	-	0.58	
PCB-124	1.2705	-	1.27	
PCB-108	1.2612	-	1.26	Co-elute PCB 107
PCB-107	1.2612	-	1.26	Co-elute PCB 108
PCB-123	1.2112	-	1.21	
13C-PCB-123	1.4234	-	1.42	
PCB-118	1.2059	-	1.21	Co-elute PCB 106
PCB-106	1.2059	-	1.21	Co-elute PCB 118
13C-PCB-118	1.5376	-	1.54	
PCB-114	1.2989	-	1.30	
13C-PCB-114	1.4578	-	1.46	
PCB-122	1.2897	-	1.29	
PCB-105	1.3064	-	1.31	
13C-PCB-105	1.4539	-	1.45	
PCB-127	1.2066	-	1.21	
PCB-126	1.2777	-	1.28	
13C-PCB-126	1.3132	-	1.31	

PCB-151	1.0029	-	1.00	
PCB-135	1.0091	-	1.01	
PCB-144	1.0322	-	1.03	
PCB-147	1.1145	-	1.11	
PCB-139	1.0903	-	1.09	Co-elute PCB 149
PCB-149	1.0903	-	1.09	Co-elute PCB 139
PCB-140	1.1066	-	1.11	
PCB-143	0.9029	-	0.90	Co-elute PCB 134
PCB-134	0.9029	-	0.90	Co-elute PCB 143
PCB-131	0.9189	-	0.92	Co-elute PCB 133
PCB-133	0.9189	-	0.92	Co-elute PCB 131
PCB-142	0.9401	-	0.94	
PCB-165	1.2010	-	1.20	Co-elute PCB 146
PCB-146	1.2010	-	1.20	Co-elute PCB 165
PCB-161	1.1411	-	1.14	Co-elute PCB 132
PCB-132	1.1411	-	1.14	Co-elute PCB 161
PCB-153	1.1933	-	1.19	
PCB-168	1.3316	-	1.33	
PCB-141	1.0255	-	1.03	
PCB-137	1.0261	-	1.03	
PCB-130	0.8895	-	0.89	
PCB-138	1.1948	-	1.19	Co-elute PCB 163/164
PCB-163	1.1948	-	1.19	Co-elute PCB 138/164
PCB-164	1.1948	-	1.19	Co-elute PCB 138/163
PCB-158	1.3298	-	1.33	Co-elute PCB 160
PCB-160	1.3298	-	1.33	Co-elute PCB 158
PCB-129	0.8654	-	0.87	
PCB-166	1.2922	-	1.29	
PCB-159	1.3855	-	1.39	
PCB-128	1.1152	-	1.12	Co-elute PCB 162
PCB-162	1.1152	-	1.12	Co-elute PCB 128
PCB-167	1.2372	-	1.24	
13C-PCB-167	1.1440	-	1.14	
PCB-156	1.3008	-	1.30	
13C-PCB-156	1.1045	-	1.10	
PCB-157	1.2650	-	1.27	
13C-PCB-157	1.1566	-	1.16	
PCB-169	1.2059	-	1.21	
13C-PCB-169	1.0695	-	1.07	
PCB-188	1.1892	-	1.19	
13C-PCB-188	0.9246	-	0.92	

PCB-184	1.3292	-	1.33	
PCB-179	1.2582	-	1.26	
PCB-176	1.1951	-	1.20	
PCB-186	1.2197	-	1.22	
PCB-178	0.8767	-	0.88	
PCB-175	0.9288	-	0.93	
PCB-187	0.9964	-	1.00	Co-elute PCB 182
PCB-182	0.9964	-	1.00	Co-elute PCB 187
PCB-183	0.9921	-	0.99	
PCB-185	0.9014	-	0.90	
PCB-174	0.8422	-	0.84	
PCB-181	1.0074	-	1.01	
PCB-177	0.8563	-	0.86	
PCB-171	0.9065	-	0.91	
PCB-173	0.8493	-	0.85	
PCB-172	0.8541	-	0.85	
PCB-192	1.1462	-	1.15	
PCB-180	0.8940	-	0.89	
PCB-193	1.2169	-	1.22	
PCB-191	1.1810	-	1.18	
PCB-170	0.8414	-	0.84	
PCB-190	1.1523	-	1.15	
PCB-189	1.1548	-	1.15	
13C-PCB-189	0.7997	-	0.80	
PCB-202	1.1086	-	1.11	
PCB-201	1.1858	-	1.19	
PCB-204	1.2134	-	1.21	
PCB-197	1.2243	-	1.22	
PCB-200	1.1886	-	1.19	
PCB-198	0.8598	-	0.86	
PCB-199	0.8794	-	0.88	
PCB-203	0.9547	-	0.95	Co-elute PCB 196
PCB-196	0.9547	-	0.95	Co-elute PCB 203
13C-PCB-202	0.6442	-	0.64	
13C-PCB-178	0.6731	-	0.67	
13C-PCB-138	-	-	-	
PCB-195	0.9293	-	0.93	
PCB-194	0.9511	-	0.95	
PCB-205	1.1799	-	1.18	
13C-PCB-205	1.2423	-	1.24	
PCB-208	1.1051	-	1.11	
13C-PCB-208	1.1183	-	1.12	
PCB-207	1.2850	-	1.29	
PCB-206	1.1338	-	1.13	
13C-PCB-206	0.8422	-	0.84	
PCB-209	1.2430	-	1.24	
13C-PCB-209	0.8139	-	0.81	
13C-PCB-194	-	-	-	

Analyst: [illegible] Date: 11/7/00

Run #1 Filename 07NOV20Z S: 1 Acquired: 7-NOV-20 07:31:32 Cal: DAILY209FAL4-11-7-20
Client ID: ST110720Z1 Analyte: DAILY209FAL4-11-7-20 FAL ID: CS209 200406A

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	2.32e+07	3.18 y	14:35	-	1.37	
2	IS/RT	13C-PCB-1	100.00	3.38e+07	3.23 y	14:34	-	0.710	
3	Unk	PCB-2	50.00	2.31e+07	3.22 y	16:48	-	1.39	
4	Unk	PCB-3	50.00	2.29e+07	3.22 y	17:01	-	1.40	
5	IS/RT	13C-PCB-3	100.00	3.28e+07	3.31 y	17:00	-	0.688	
6	Unk	PCB-4	50.00	1.68e+07	1.48 y	18:16	-	1.08	
7	Unk	PCB-10	50.00	3.17e+07	1.55 y	18:19	-	1.63	
8	IS/RT	13C-PCB-4	100.00	3.12e+07	1.57 y	18:14	-	0.654	
9	Unk	PCB-9	50.00	2.94e+07	1.54 y	19:56	-	1.51	
10	Unk	PCB-7	50.00	2.98e+07	1.54 y	19:58	-	1.53	
11	Unk	PCB-6	50.00	2.95e+07	1.58 y	20:33	-	1.52	
12	Unk	PCB-8	50.00	2.92e+07	1.58 y	20:57	-	1.51	
13	Unk	PCB-5	50.00	3.02e+07	1.45 y	20:58	-	1.56	
14	Unk	PCB-14	50.00	2.86e+07	1.56 y	21:59	-	1.47	
15	Unk	PCB-11	50.00	2.75e+07	1.49 y	23:07	-	1.42	
16	Unk	PCB-13	50.00	2.77e+07	1.45 y	23:27	-	1.43	
17	Unk	PCB-12	50.00	2.79e+07	1.53 y	23:30	-	1.44	
18	Unk	PCB-15	50.00	3.06e+07	1.61 y	23:47	-	1.31	
19	IS/RT	13C-PCB-15	100.00	4.65e+07	1.58 y	23:46	-	0.976	
20	Unk	PCB-19	50.00	1.23e+07	1.09 y	22:09	-	1.34	
21	Unk	PCB-30	50.00	1.78e+07	1.08 y	22:59	-	1.94	
22	Unk	PCB-18	50.00	1.22e+07	1.08 y	23:41	-	1.33	
23	Unk	PCB-17	50.00	1.32e+07	1.06 y	23:51	-	1.44	
24	Unk	PCB-27	50.00	1.70e+07	1.07 y	24:23	-	1.86	
25	Unk	PCB-24	50.00	1.67e+07	1.07 y	24:24	-	1.83	
26	Unk	PCB-16	50.00	1.46e+07	1.07 y	24:52	-	1.60	
27	Unk	PCB-32	50.00	1.57e+07	1.08 y	24:54	-	1.71	
28	IS/RT	13C-PCB-19	100.00	1.83e+07	1.09 y	22:08	-	0.383	
29	RS	13C-PCB-9	100.00	4.77e+07	1.66 y	19:55	4.77e+05	-	
30	Unk	PCB-34	50.00	2.40e+07	1.04 y	25:38	-	1.26	
31	Unk	PCB-23	50.00	2.89e+07	1.07 y	25:44	-	1.52	
32	Unk	PCB-29	50.00	2.67e+07	1.07 y	25:58	-	1.40	
33	Unk	PCB-26	50.00	2.53e+07	1.08 y	26:09	-	1.33	
34	Unk	PCB-25	50.00	2.49e+07	1.07 y	26:18	-	1.31	
35	Unk	PCB-31	50.00	2.67e+07	1.06 y	26:38	-	1.40	
36	Unk	PCB-28	50.00	2.96e+07	1.07 y	26:45	-	1.55	
37	Unk	PCB-20	150.00	7.37e+07	1.08 y	27:19	-	1.29	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	7.37e+07	1.08 y	27:19	-	1.29	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	7.37e+07	1.08 y	27:19	-	1.29	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	2.81e+07	1.07 y	27:44	-	1.48	
41	Unk	PCB-36	50.00	2.52e+07	1.06 y	28:19	-	1.32	
42	Unk	PCB-39	50.00	2.52e+07	1.08 y	28:46	-	1.32	
43	Unk	PCB-38	50.00	2.53e+07	1.06 y	29:30	-	1.33	
44	Unk	PCB-35	50.00	2.36e+07	1.07 y	30:01	-	1.24	
45	Unk	PCB-37	50.00	2.43e+07	1.05 y	30:25	-	1.28	
46	IS	13C-PCB-37	100.00	3.81e+07	1.09 y	30:23	-	1.76	

47	Unk	PCB-54	100.00	3.57e+07	0.81	y	25:40	-	1.37	
48	Unk	PCB-50	100.00	2.80e+07	0.79	y	26:47	-	1.07	
49	Unk	PCB-53	100.00	2.68e+07	0.78	y	27:23	-	1.02	
50	Unk	PCB-51	100.00	2.88e+07	0.79	y	27:43	-	1.10	
51	Unk	PCB-45	100.00	2.36e+07	0.79	y	28:07	-	0.903	
52	Unk	PCB-46	100.00	2.25e+07	0.79	y	28:35	-	0.859	
53	Unk	PCB-52	200.00	5.60e+07	0.78	y	29:01	-	1.07	Co-elute PCB 69
54	Unk	PCB-69	200.00	5.60e+07	0.78	y	29:01	-	1.07	Co-elute PCB 52
55	Unk	PCB-73	100.00	3.60e+07	0.80	y	29:08	-	1.38	
56	Unk	PCB-43	200.00	5.12e+07	0.79	y	29:18	-	0.980	Co-elute PCB 49
57	Unk	PCB-49	200.00	5.12e+07	0.79	y	29:18	-	0.980	Co-elute PCB 43
58	Unk	PCB-47	100.00	2.72e+07	0.77	y	29:30	-	1.04	
59	Unk	PCB-48	200.00	6.39e+07	0.80	y	29:37	-	1.22	Co-elute PCB 75
60	Unk	PCB-75	200.00	6.39e+07	0.80	y	29:37	-	1.22	Co-elute PCB 48
61	Unk	PCB-65	100.00	3.22e+07	0.79	y	29:52	-	1.23	
62	Unk	PCB-62	100.00	3.55e+07	0.79	y	29:58	-	1.36	
63	Unk	PCB-44	100.00	2.22e+07	0.80	y	30:15	-	0.849	
64	Unk	PCB-42	200.00	5.77e+07	0.80	y	30:27	-	1.10	Co-elute PCB 59
65	Unk	PCB-59	200.00	5.77e+07	0.80	y	30:27	-	1.10	Co-elute PCB 42
66	Unk	PCB-72	400.00	1.29e+08	0.79	y	31:00	-	1.23	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	1.29e+08	0.79	y	31:00	-	1.23	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	1.29e+08	0.79	y	31:00	-	1.23	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	1.29e+08	0.79	y	31:00	-	1.23	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	3.67e+07	0.80	y	31:15	-	1.40	
71	Unk	PCB-40	100.00	2.04e+07	0.78	y	31:28	-	0.780	
72	Unk	PCB-57	100.00	3.49e+07	0.79	y	31:48	-	1.33	
73	Unk	PCB-67	100.00	3.21e+07	0.78	y	32:06	-	1.23	
74	Unk	PCB-58	100.00	3.78e+07	0.79	y	32:12	-	1.44	
75	Unk	PCB-63	100.00	3.52e+07	0.78	y	32:21	-	1.35	
76	Unk	PCB-74	100.00	3.35e+07	0.78	y	32:37	-	1.28	
77	Unk	PCB-61	200.00	6.46e+07	0.79	y	32:49	-	1.23	Co-elute PCB 70
78	Unk	PCB-70	200.00	6.46e+07	0.79	y	32:49	-	1.23	Co-elute PCB 61
79	Unk	PCB-76	200.00	7.20e+07	0.79	y	33:01	-	1.38	Co-elute PCB 66
80	Unk	PCB-66	200.00	7.20e+07	0.79	y	33:01	-	1.38	Co-elute PCB 76
81	Unk	PCB-80	100.00	4.13e+07	0.79	y	33:13	-	1.58	
82	Unk	PCB-55	100.00	3.56e+07	0.79	y	33:32	-	1.36	
83	IS/RT	13C-PCB-54	100.00	2.62e+07	0.83	y	25:39	-	1.21	
84	Unk	PCB-104	100.00	2.06e+07	1.56	y	30:07	-	1.22	
85	Unk	PCB-96	100.00	1.99e+07	1.57	y	31:18	-	1.18	
86	Unk	PCB-103	100.00	1.63e+07	1.59	y	31:48	-	0.965	
87	Unk	PCB-100	100.00	1.68e+07	1.59	y	32:08	-	0.993	
88	Unk	PCB-94	100.00	1.38e+07	1.57	y	32:35	-	0.819	
89	Unk	PCB-98	200.00	2.89e+07	1.60	y	33:01	-	0.857	Co-elute PCB 102
90	Unk	PCB-102	200.00	2.89e+07	1.60	y	33:01	-	0.857	Co-elute PCB 98
91	Unk	PCB-95	100.00	1.46e+07	1.56	y	33:05	-	0.867	
92	Unk	PCB-93	100.00	1.44e+07	1.63	y	33:10	-	0.855	
93	Unk	PCB-88	200.00	3.03e+07	1.55	y	33:29	-	0.897	Co-elute PCB 91
94	Unk	PCB-91	200.00	3.03e+07	1.55	y	33:29	-	0.897	Co-elute PCB 88
95	Unk	PCB-121	100.00	2.00e+07	1.58	y	33:33	-	1.19	
96	IS	13C-PCB-104	100.00	1.69e+07	1.59	y	30:06	-	0.781	
97	C/Up	13C-PCB-28	100.00	4.74e+07	1.05	y	26:43	-	2.19	
98	RS	13C-PCB-52	100.00	2.16e+07	0.81	y	29:00	2.16e+05	-	
99	Unk	PCB-56	200.00	8.63e+07	0.77	y	34:01	-	1.25	Co-elute PCB 60
100	Unk	PCB-60	200.00	8.63e+07	0.77	y	34:01	-	1.25	Co-elute PCB 56

101	Unk	PCB-79	100.00	4.53e+07	0.81 y	35:01	-	1.31		
102	Unk	PCB-78	100.00	4.37e+07	0.80 y	35:40	-	1.27		
103	Unk	PCB-81	100.00	4.51e+07	0.81 y	36:11	-	1.33		
104	IS	13C-PCB-81	100.00	3.40e+07	0.81 y	36:10	-	1.84		
105	Unk	PCB-77	100.00	4.09e+07	0.83 y	36:45	-	1.17		
106	IS/RT	13C-PCB-77	100.00	3.50e+07	0.81 y	36:44	-	1.89		
107	Unk	PCB-155	100.00	2.19e+07	1.27 y	34:16	-	1.16		
108	Unk	PCB-150	100.00	2.08e+07	1.26 y	35:28	-	1.10		
109	Unk	PCB-152	100.00	2.06e+07	1.28 y	35:54	-	1.09		
110	Unk	PCB-145	100.00	2.10e+07	1.28 y	36:20	-	1.12		
111	Unk	PCB-136	100.00	2.00e+07	1.26 y	36:39	-	1.06		
112	Unk	PCB-148	100.00	1.63e+07	1.28 y	36:44	-	0.865		
113	Unk	PCB-154	100.00	1.77e+07	1.28 y	37:11	-	0.940		
114	IS	13C-PCB-155	100.00	1.89e+07	1.28 y	34:14	-	1.02		
115	C/Up	13C-PCB-111	100.00	2.43e+07	1.59 y	36:18	-	1.31		
116	RS	13C-PCB-101	100.00	1.85e+07	1.65 y	34:41	1.85e+05	-		
117	Unk	PCB-84	200.00	4.27e+07	1.60 y	34:21	-	0.693	Co-elute PCB 92	
118	Unk	PCB-92	200.00	4.27e+07	1.60 y	34:21	-	0.693	Co-elute PCB 84	
119	Unk	PCB-89	100.00	2.10e+07	1.57 y	34:31	-	0.683		
120	Unk	PCB-90	200.00	4.70e+07	1.61 y	34:41	-	0.764	Co-elute PCB 101	
121	Unk	PCB-101	200.00	4.70e+07	1.61 y	34:41	-	0.764	Co-elute PCB 90	
122	Unk	PCB-113	100.00	2.50e+07	1.56 y	34:55	-	0.813		
123	Unk	PCB-99	100.00	2.73e+07	1.63 y	35:01	-	0.885		
124	Unk	PCB-119	100.00	2.98e+07	1.59 y	35:27	-	0.969		
125	Unk	PCB-83	200.00	4.66e+07	1.60 y	35:35	-	0.757	Co-elute PCB 112	
126	Unk	PCB-112	200.00	4.66e+07	1.60 y	35:35	-	0.757	Co-elute PCB 83	
127	Unk	PCB-109	100.00	2.91e+07	1.59 y	35:45	-	0.946		
128	Unk	PCB-97	100.00	2.04e+07	1.57 y	35:56	-	0.662		
129	Unk	PCB-86	100.00	2.05e+07	1.56 y	36:04	-	0.667		
130	Unk	PCB-125	300.00	7.94e+07	1.67 y	36:12	-	0.860	Co-elute PCB 87/117	
131	Unk	PCB-87	300.00	7.94e+07	1.67 y	36:12	-	0.860	Co-elute PCB 125/117	
132	Unk	PCB-117	300.00	7.94e+07	1.67 y	36:12	-	0.860	Co-elute PCB 125/87	
133	Unk	PCB-111	200.00	6.07e+07	1.51 y	36:21	-	0.987	Co-elute PCB 115	
134	Unk	PCB-115	200.00	6.07e+07	1.51 y	36:21	-	0.987	Co-elute PCB 111	
135	Unk	PCB-85	200.00	5.09e+07	1.62 y	36:28	-	0.827	Co-elute PCB 116	
136	Unk	PCB-116	200.00	5.09e+07	1.62 y	36:28	-	0.827	Co-elute PCB 85	
137	Unk	PCB-120	100.00	3.09e+07	1.55 y	36:41	-	1.00		
138	Unk	PCB-110	100.00	3.04e+07	1.59 y	36:50	-	0.988		
139	Unk	PCB-82	100.00	1.79e+07	1.59 y	37:25	-	0.582		
140	Unk	PCB-124	100.00	3.91e+07	1.56 y	38:04	-	1.27		
141	Unk	PCB-108	200.00	7.77e+07	1.60 y	38:13	-	1.26	Co-elute PCB 107	
142	Unk	PCB-107	200.00	7.77e+07	1.60 y	38:13	-	1.26	Co-elute PCB 108	
143	Unk	PCB-123	100.00	3.62e+07	1.60 y	38:23	-	1.21		
144	IS	13C-PCB-123	100.00	2.98e+07	1.61 y	38:21	-	1.42		
145	Unk	PCB-118	200.00	7.78e+07	1.59 y	38:34	-	1.21	Co-elute PCB 106	
146	Unk	PCB-106	200.00	7.78e+07	1.59 y	38:34	-	1.21	Co-elute PCB 118	
147	IS	13C-PCB-118	100.00	3.22e+07	1.62 y	38:31	-	1.54		
148	Unk	PCB-114	100.00	3.97e+07	1.58 y	39:10	-	1.30		
149	IS	13C-PCB-114	100.00	3.06e+07	1.62 y	39:09	-	1.46		
150	Unk	PCB-122	100.00	3.97e+07	1.60 y	39:17	-	1.29		
151	Unk	PCB-105	100.00	3.98e+07	1.57 y	39:58	-	1.31		
152	IS	13C-PCB-105	100.00	3.05e+07	1.61 y	39:58	-	1.45		
153	Unk	PCB-127	100.00	3.71e+07	1.65 y	40:18	-	1.21		
154	Unk	PCB-126	100.00	3.52e+07	1.60 y	42:06	-	1.28		
155	IS	13C-PCB-126	100.00	2.75e+07	1.65 y	42:05	-	1.31		

156	Unk	PCB-151	100.00	2.35e+07	1.29 y	37:50	-	1.00	
157	Unk	PCB-135	100.00	2.37e+07	1.28 y	38:01	-	1.01	
158	Unk	PCB-144	100.00	2.42e+07	1.28 y	38:08	-	1.03	
159	Unk	PCB-147	100.00	2.61e+07	1.26 y	38:14	-	1.11	
160	Unk	PCB-139	200.00	5.12e+07	1.28 y	38:31	-	1.09	Co-elute PCB 149
161	Unk	PCB-149	200.00	5.12e+07	1.28 y	38:31	-	1.09	Co-elute PCB 139
162	Unk	PCB-140	100.00	2.60e+07	1.27 y	38:41	-	1.11	
163	Unk	PCB-143	200.00	4.24e+07	1.28 y	39:05	-	0.903	Co-elute PCB 134
164	Unk	PCB-134	200.00	4.24e+07	1.28 y	39:05	-	0.903	Co-elute PCB 143
165	Unk	PCB-131	200.00	4.31e+07	1.27 y	39:22	-	0.919	Co-elute PCB 133
166	Unk	PCB-133	200.00	4.31e+07	1.27 y	39:22	-	0.919	Co-elute PCB 131
167	Unk	PCB-142	100.00	2.21e+07	1.27 y	39:32	-	0.940	
168	Unk	PCB-165	200.00	5.63e+07	1.25 y	39:43	-	1.20	Co-elute PCB 146
169	Unk	PCB-146	200.00	5.63e+07	1.25 y	39:43	-	1.20	Co-elute PCB 165
170	Unk	PCB-161	200.00	5.35e+07	1.27 y	39:56	-	1.14	Co-elute PCB 132
171	Unk	PCB-132	200.00	5.35e+07	1.27 y	39:56	-	1.14	Co-elute PCB 161
172	Unk	PCB-153	100.00	2.80e+07	1.28 y	40:06	-	1.19	
173	Unk	PCB-168	100.00	3.12e+07	1.25 y	40:18	-	1.33	
174	Unk	PCB-141	100.00	2.41e+07	1.26 y	40:49	-	1.03	
175	Unk	PCB-137	100.00	2.41e+07	1.27 y	41:10	-	1.03	
176	Unk	PCB-130	100.00	2.09e+07	1.29 y	41:17	-	0.890	
177	Unk	PCB-138	300.00	8.41e+07	1.27 y	41:38	-	1.19	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	8.41e+07	1.27 y	41:38	-	1.19	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	8.41e+07	1.27 y	41:38	-	1.19	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	6.24e+07	1.28 y	41:52	-	1.33	Co-elute PCB 160
181	Unk	PCB-160	200.00	6.24e+07	1.28 y	41:52	-	1.33	Co-elute PCB 158
182	Unk	PCB-129	100.00	2.03e+07	1.28 y	42:05	-	0.865	
183	Unk	PCB-166	100.00	3.03e+07	1.25 y	42:31	-	1.29	
184	Unk	PCB-159	100.00	3.25e+07	1.26 y	42:49	-	1.39	
185	Unk	PCB-128	200.00	5.23e+07	1.28 y	43:06	-	1.12	Co-elute PCB 162
186	Unk	PCB-162	200.00	5.23e+07	1.28 y	43:06	-	1.12	Co-elute PCB 128
187	Unk	PCB-167	100.00	2.97e+07	1.27 y	43:27	-	1.24	
188	IS	13C-PCB-167	100.00	2.40e+07	1.30 y	43:27	-	1.14	
189	Unk	PCB-156	100.00	3.01e+07	1.27 y	44:41	-	1.30	
190	IS	13C-PCB-156	100.00	2.32e+07	1.31 y	44:41	-	1.10	
191	Unk	PCB-157	100.00	3.07e+07	1.29 y	44:58	-	1.27	
192	IS	13C-PCB-157	100.00	2.43e+07	1.29 y	44:56	-	1.16	
193	Unk	PCB-169	100.00	2.70e+07	1.26 y	46:48	-	1.21	
194	IS	13C-PCB-169	100.00	2.24e+07	1.31 y	46:46	-	1.07	
195	Unk	PCB-188	100.00	2.31e+07	1.06 y	39:45	-	1.19	
196	IS	13C-PCB-188	100.00	1.94e+07	1.06 y	39:45	-	0.925	

197	Unk	PCB-184	100.00	2.40e+07	1.05 y	40:11	-	1.33	
198	Unk	PCB-179	100.00	2.27e+07	1.08 y	40:56	-	1.26	
199	Unk	PCB-176	100.00	2.16e+07	1.06 y	41:22	-	1.20	
200	Unk	PCB-186	100.00	2.21e+07	1.08 y	41:57	-	1.22	
201	Unk	PCB-178	100.00	1.58e+07	1.07 y	42:23	-	0.877	
202	Unk	PCB-175	100.00	1.68e+07	1.07 y	42:43	-	0.929	
203	Unk	PCB-187	200.00	3.60e+07	1.07 y	42:53	-	0.996	Co-elute PCB 182
204	Unk	PCB-182	200.00	3.60e+07	1.07 y	42:53	-	0.996	Co-elute PCB 187
205	Unk	PCB-183	100.00	1.79e+07	1.07 y	43:11	-	0.992	
206	Unk	PCB-185	100.00	1.63e+07	1.08 y	43:48	-	0.901	
207	Unk	PCB-174	100.00	1.52e+07	1.05 y	44:10	-	0.842	
208	Unk	PCB-181	100.00	1.82e+07	1.06 y	44:15	-	1.01	
209	Unk	PCB-177	100.00	1.55e+07	1.07 y	44:25	-	0.856	
210	Unk	PCB-171	100.00	1.64e+07	1.07 y	44:41	-	0.906	
211	Unk	PCB-173	100.00	1.54e+07	1.06 y	45:06	-	0.849	
212	Unk	PCB-172	100.00	1.54e+07	1.06 y	45:29	-	0.854	
213	Unk	PCB-192	100.00	2.07e+07	1.06 y	45:39	-	1.15	
214	Unk	PCB-180	100.00	1.62e+07	1.06 y	45:50	-	0.894	
215	Unk	PCB-193	100.00	2.20e+07	1.06 y	46:00	-	1.22	
216	Unk	PCB-191	100.00	2.14e+07	1.07 y	46:13	-	1.18	
217	Unk	PCB-170	100.00	1.52e+07	1.06 y	47:08	-	0.841	
218	Unk	PCB-190	100.00	2.08e+07	1.09 y	47:16	-	1.15	
219	Unk	PCB-189	100.00	1.94e+07	1.04 y	48:28	-	1.15	
220	IS	13C-PCB-189	100.00	1.68e+07	1.07 y	48:27	-	0.800	
221	Unk	PCB-202	150.00	2.25e+07	0.91 y	44:53	-	1.11	
222	Unk	PCB-201	150.00	2.40e+07	0.95 y	45:19	-	1.19	
223	Unk	PCB-204	150.00	2.46e+07	0.86 y	45:27	-	1.21	
224	Unk	PCB-197	150.00	2.48e+07	0.91 y	45:44	-	1.22	
225	Unk	PCB-200	150.00	2.41e+07	0.91 y	46:28	-	1.19	
226	Unk	PCB-198	150.00	1.74e+07	0.90 y	47:37	-	0.860	
227	Unk	PCB-199	150.00	1.78e+07	0.92 y	47:44	-	0.879	
228	Unk	PCB-203	300.00	3.87e+07	0.91 y	47:59	-	0.955	Co-elute PCB 196
229	Unk	PCB-196	300.00	3.87e+07	0.91 y	47:59	-	0.955	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	1.35e+07	0.92 y	44:51	-	0.644	
231	C/Up	13C-PCB-178	100.00	1.41e+07	1.08 y	42:23	-	0.673	
232	RS	13C-PCB-138	100.00	2.10e+07	1.30 y	41:35	2.10e+05	-	
233	Unk	PCB-195	150.00	3.81e+07	0.90 y	49:04	-	0.929	
234	Unk	PCB-194	150.00	3.89e+07	0.92 y	49:53	-	0.951	
235	Unk	PCB-205	150.00	4.83e+07	0.91 y	50:07	-	1.18	
236	IS	13C-PCB-205	100.00	2.73e+07	0.91 y	50:07	-	1.24	
237	Unk	PCB-208	150.00	4.07e+07	1.35 y	49:12	-	1.11	
238	IS	13C-PCB-208	100.00	2.46e+07	0.80 y	49:11	-	1.12	
239	Unk	PCB-207	150.00	4.15e+07	1.37 y	49:28	-	1.29	
240	Unk	PCB-206	150.00	3.15e+07	1.33 y	51:20	-	1.13	
241	IS	13C-PCB-206	100.00	1.85e+07	0.82 y	51:19	-	0.842	
242	Unk	PCB-209	150.00	3.33e+07	1.21 y	52:31	-	1.24	
243	IS	13C-PCB-209	100.00	1.79e+07	1.22 y	52:30	-	0.814	
244	RS	13C-PCB-194	100.00	2.20e+07	0.91 y	49:52	2.20e+05	-	

Analyst: _____ Date: 11/7/86

Frontier Analytical Laboratory

NATIVES
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/22/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 07NOV20Z Sam:1 Analysis Date: 7-NOV-20 07:31:32

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.18	2.66-3.60	y	56.6	37.5 - 62.5
PCB-3	M/M+2	3.22	2.66-3.60	y	56.7	37.5 - 62.5
PCB-4	M/M+2	1.48	1.33-1.79	y	47.3	37.5 - 62.5
PCB-15	M/M+2	1.61	1.33-1.79	y	60.2	37.5 - 62.5
PCB-19	M/M+2	1.09	0.88-1.20	y	55.4	37.5 - 62.5
PCB-37	M/M+2	1.05	0.88-1.20	y	55.8	37.5 - 62.5
PCB-54	M/M+2	0.81	0.65-0.89	y	115	75.0 - 125
PCB-77	M/M+2	0.83	0.65-0.89	y	106	75.0 - 125
PCB-81	M/M+2	0.81	0.65-0.89	y	117	75.0 - 125
PCB-104	M+2/M+4	1.56	1.32-1.78	y	109	75.0 - 125
PCB-105	M+2/M+4	1.57	1.32-1.78	y	118	75.0 - 125
PCB-114	M+2/M+4	1.58	1.32-1.78	y	115	75.0 - 125
PCB-118	M+2/M+4	1.59	1.32-1.78	y	215	150 - 250
PCB-123	M+2/M+4	1.60	1.32-1.78	y	109	75.0 - 125
PCB-126	M+2/M+4	1.60	1.32-1.78	y	118	75.0 - 125
PCB-155	M+2/M+4	1.27	1.05-1.43	y	102	75.0 - 125
PCB-156	M+2/M+4	1.27	1.05-1.43	y	115	75.0 - 125
PCB-157	M+2/M+4	1.29	1.05-1.43	y	117	75.0 - 125
PCB-167	M+2/M+4	1.27	1.05-1.43	y	112	75.0 - 125
PCB-169	M+2/M+4	1.26	1.05-1.43	y	112	75.0 - 125
PCB-188	M+2/M+4	1.06	0.89-1.21	y	108	75.0 - 125
PCB-189	M+2/M+4	1.04	0.89-1.21	y	108	75.0 - 125
PCB-202	M+2/M+4	0.91	0.76-1.02	y	162	112.5 - 187.5
PCB-205	M+2/M+4	0.91	0.76-1.02	y	163	112.5 - 187.5
PCB-206	M+4/M+6	1.33	1.13-1.53	y	164	112.5 - 187.5
PCB-208	M+4/M+6	1.35	1.13-1.53	y	164	112.5 - 187.5
PCB-209	M+4/M+6	1.21	0.99-1.33	y	165	112.5 - 187.5

Analyst: [illegible] Date: 11/7/20

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/22/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 07NOV20Z Sam:1 Analysis Date: 7-NOV-20 07:31:32

	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	78.9	50.0 - 145
13C-PCB-3	M/M+2	3.31	2.66-3.60	y	74.0	50.0 - 145
13C-PCB-4	M/M+2	1.57	1.33-1.79	y	99.2	50.0 - 145
13C-PCB-15	M/M+2	1.58	1.33-1.79	y	89.8	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	76.0	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	107	50.0 - 145
13C-PCB-54	M/M+2	0.83	0.65-0.89	y	95.8	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	117	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	117	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	76.5	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	113	50.0 - 145
13C-PCB-114	M+2/M+4	1.62	1.32-1.78	y	113	50.0 - 145
13C-PCB-118	M+2/M+4	1.62	1.32-1.78	y	114	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	111	50.0 - 145
13C-PCB-126	M+2/M+4	1.65	1.32-1.78	y	107	50.0 - 145
13C-PCB-155	M+2/M+4	1.28	1.05-1.43	y	92.4	50.0 - 145
13C-PCB-156	M+2/M+4	1.31	1.05-1.43	y	93.0	50.0 - 145
13C-PCB-157	M+2/M+4	1.29	1.05-1.43	y	95.3	50.0 - 145
13C-PCB-167	M+2/M+4	1.30	1.05-1.43	y	93.1	50.0 - 145
13C-PCB-169	M+2/M+4	1.31	1.05-1.43	y	91.4	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	82.0	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	82.8	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	67.4	50.0 - 145
13C-PCB-205	M+2/M+4	0.91	0.76-1.02	y	94.4	50.0 - 145
13C-PCB-206	M+2/M+4	0.82	0.65-0.89	y	89.9	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	81.3	50.0 - 145
13C-PCB-209	M+4/M+6	1.22	0.99-1.33	y	73.8	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	127	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	103	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	86.7	75.0 - 125

Analyst: _____ Date: 11/7/20

FAL ID: ST110720Z1 Filename: 07NOV20Z Sam:1 Acquired: 7-NOV-20 07:31:32 ICal: 1668PCBFAL4-7-22-20
Client ID: CS209 200406A ConCal: ST110720Z1 EndCal: ST110720Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.32e+07	3.18 y	14:35	1.21	56.6		2.50	-	-	*	-
13C-PCB-1	3.38e+07	3.23 y	14:34	0.90	78.9		2.50				78.9
PCB-3	2.29e+07	3.22 y	17:01	1.23	56.7		2.50	-	-	*	-
13C-PCB-3	3.28e+07	3.31 y	16:60	0.93	74.0		2.50				74.0
PCB-4	1.68e+07	1.48 y	18:16	1.14	47.3		2.50	-	-	*	-
13C-PCB-4	3.12e+07	1.57 y	18:14	0.66	99.2		2.50				99.2
PCB-15	3.06e+07	1.61 y	23:47	1.09	60.2		2.50	-	-	*	-
13C-PCB-15	4.65e+07	1.58 y	23:46	1.09	89.8		2.50				89.8
PCB-19	1.23e+07	1.09 y	22:09	1.21	55.4		2.50	-	-	*	-
13C-PCB-19	1.83e+07	1.09 y	22:08	0.50	76.0		2.50				76.0
13C-PCB-9	4.77e+07	1.66 y	19:55	-	46.7		2.50				
PCB-37	2.43e+07	1.05 y	30:25	1.14	55.8		2.50	-	-	*	-
13C-PCB-37	3.81e+07	1.09 y	30:23	1.64	107		2.50				107
PCB-54	3.57e+07	0.81 y	25:40	1.18	115		2.50	-	-	*	-
13C-PCB-54	2.62e+07	0.83 y	25:39	1.26	95.8		2.50				95.8
PCB-104	2.06e+07	1.56 y	30:07	1.12	109		2.50	-	-	*	-
13C-PCB-104	1.69e+07	1.59 y	30:06	1.02	76.5		2.50				76.5
13C-PCB-28	4.74e+07	1.05 y	26:43	1.73	127		2.50				127
13C-PCB-52	2.16e+07	0.81 y	28:60	-	40.7		2.50				
PCB-81	4.51e+07	0.81 y	36:11	1.13	117		2.50	-	-	*	-
13C-PCB-81	3.40e+07	0.81 y	36:10	1.57	117		2.50				117
PCB-77	4.09e+07	0.83 y	36:45	1.10	106		2.50	-	-	*	-
13C-PCB-77	3.50e+07	0.81 y	36:44	1.61	117		2.50				117
PCB-155	2.19e+07	1.27 y	34:16	1.13	102		2.50	-	-	*	-
13C-PCB-155	1.89e+07	1.28 y	34:14	1.10	92.4		2.50				92.4
13C-PCB-111	2.43e+07	1.59 y	36:18	1.27	103		2.50				103
13C-PCB-101	1.85e+07	1.65 y	34:41	-	38.8		2.50				
PCB-123	3.62e+07	1.60 y	38:23	1.11	109		2.50	-	-	*	-
13C-PCB-123	2.98e+07	1.61 y	38:21	1.28	111		2.50				111
PCB-118	7.78e+07	1.59 y	38:34	1.12	215		2.50	-	-	*	-
13C-PCB-118	3.22e+07	1.62 y	38:31	1.35	114		2.50				114
PCB-114	3.97e+07	1.58 y	39:10	1.13	115		2.50	-	-	*	-
13C-PCB-114	3.06e+07	1.62 y	39:09	1.29	113		2.50				113
PCB-105	3.98e+07	1.57 y	39:58	1.10	118		2.50	-	-	*	-
13C-PCB-105	3.05e+07	1.61 y	39:58	1.28	113		2.50				113
PCB-126	3.52e+07	1.60 y	42:06	1.08	118		2.50	-	-	*	-
13C-PCB-126	2.75e+07	1.65 y	42:05	1.23	107		2.50				107
PCB-167	2.97e+07	1.27 y	43:27	1.11	112		2.50	-	-	*	-
13C-PCB-167	2.40e+07	1.30 y	43:27	1.23	93.1		2.50				93.1
PCB-156	3.01e+07	1.27 y	44:41	1.13	115		2.50	-	-	*	-
13C-PCB-156	2.32e+07	1.31 y	44:41	1.19	93.0		2.50				93.0
PCB-157	3.07e+07	1.29 y	44:58	1.08	117		2.50	-	-	*	-
13C-PCB-157	2.43e+07	1.29 y	44:56	1.21	95.3		2.50				95.3
PCB-169	2.70e+07	1.26 y	46:48	1.08	112		2.50	-	-	*	-
13C-PCB-169	2.24e+07	1.31 y	46:46	1.17	91.4		2.50				91.4
PCB-188	2.31e+07	1.06 y	39:45	1.10	108		2.50	-	-	*	-
13C-PCB-188	1.94e+07	1.06 y	39:45	1.13	82.0		2.50				82.0
PCB-189	1.94e+07	1.04 y	48:28	1.07	108		2.50	-	-	*	-
13C-PCB-189	1.68e+07	1.07 y	48:27	0.97	82.8		2.50				82.8
PCB-202	2.25e+07	0.91 y	44:53	1.03	162		2.50	-	-	*	-
13C-PCB-202	1.35e+07	0.92 y	44:51	0.96	67.4		2.50				67.4
13C-PCB-178	1.41e+07	1.08 y	42:23	0.78	86.7		2.50				86.7
13C-PCB-138	2.10e+07	1.30 y	41:35	-	43.6		2.50				

Client ID: CS209 200406A ConCal: ST110720Z1 EndCal: ST110720Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	4.83e+07	0.91	y	50:07	1.09	163	2.50	-	-	*	-
13C-PCB-205	2.73e+07	0.91	y	50:07	1.32	94.4	2.50				94.4
PCB-208	4.07e+07	1.35	y	49:12	1.01	164	2.50	-	-	*	-
13C-PCB-208	2.46e+07	0.80	y	49:11	1.38	81.3	2.50				81.3
PCB-206	3.15e+07	1.33	y	51:20	1.04	164	2.50	-	-	*	-
13C-PCB-206	1.85e+07	0.82	y	51:19	0.94	89.9	2.50				89.9
PCB-209	3.33e+07	1.21	y	52:31	1.13	165	2.50	-	-	*	-
13C-PCB-209	1.79e+07	1.22	y	52:30	1.10	73.8	2.50				73.8
13C-PCB-194	2.20e+07	0.91	y	49:52	-	57.7	2.50				

Analyst: [illegible] Date: 11/7/20

Frontier Analytical Laboratory

NATIVES
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 11/7/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 07NOV20Z Sam:15 Analysis Date: 7-NOV-20 21:08:28

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.24	2.66-3.60	y	51.5	37.5 - 62.5
PCB-3	M/M+2	3.23	2.66-3.60	y	52.4	37.5 - 62.5
PCB-4	M/M+2	1.49	1.33-1.79	y	57.1	37.5 - 62.5
PCB-15	M/M+2	1.53	1.33-1.79	y	51.3	37.5 - 62.5
PCB-19	M/M+2	1.07	0.88-1.20	y	49.4	37.5 - 62.5
PCB-37	M/M+2	1.13	0.88-1.20	y	51.3	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	99.5	75.0 - 125
PCB-77	M/M+2	0.85	0.65-0.89	y	98.2	75.0 - 125
PCB-81	M/M+2	0.82	0.65-0.89	y	98.6	75.0 - 125
PCB-104	M+2/M+4	1.57	1.32-1.78	y	100	75.0 - 125
PCB-105	M+2/M+4	1.64	1.32-1.78	y	103	75.0 - 125
PCB-114	M+2/M+4	1.63	1.32-1.78	y	105	75.0 - 125
PCB-118	M+2/M+4	1.62	1.32-1.78	y	209	150 - 250
PCB-123	M+2/M+4	1.62	1.32-1.78	y	92.8	75.0 - 125
PCB-126	M+2/M+4	1.63	1.32-1.78	y	101	75.0 - 125
PCB-155	M+2/M+4	1.29	1.05-1.43	y	104	75.0 - 125
PCB-156	M+2/M+4	1.25	1.05-1.43	y	101	75.0 - 125
PCB-157	M+2/M+4	1.28	1.05-1.43	y	102	75.0 - 125
PCB-167	M+2/M+4	1.26	1.05-1.43	y	101	75.0 - 125
PCB-169	M+2/M+4	1.25	1.05-1.43	y	99.4	75.0 - 125
PCB-188	M+2/M+4	1.08	0.89-1.21	y	102	75.0 - 125
PCB-189	M+2/M+4	1.06	0.89-1.21	y	102	75.0 - 125
PCB-202	M+2/M+4	0.93	0.76-1.02	y	151	112.5 - 187.5
PCB-205	M+2/M+4	0.92	0.76-1.02	y	147	112.5 - 187.5
PCB-206	M+4/M+6	1.32	1.13-1.53	y	147	112.5 - 187.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	148	112.5 - 187.5
PCB-209	M+4/M+6	1.21	0.99-1.33	y	150	112.5 - 187.5

Analyst: [illegible] Date: 11/9/20

Frontier Analytical Laboratory

LABELED STANDARDS
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 11/7/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 07NOV20Z Sam:15 Analysis Date: 7-NOV-20 21:08:28

	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	98.8	50.0 - 145
13C-PCB-3	M/M+2	3.30	2.66-3.60	y	96.2	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	99.5	50.0 - 145
13C-PCB-15	M/M+2	1.63	1.33-1.79	y	96.4	50.0 - 145
13C-PCB-19	M/M+2	1.12	0.88-1.20	y	95.1	50.0 - 145
13C-PCB-37	M/M+2	1.04	0.88-1.20	y	89.4	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	109	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	93.9	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	92.6	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	112	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	87.3	50.0 - 145
13C-PCB-114	M+2/M+4	1.64	1.32-1.78	y	86.2	50.0 - 145
13C-PCB-118	M+2/M+4	1.59	1.32-1.78	y	88.9	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	90.4	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	90.9	50.0 - 145
13C-PCB-155	M+2/M+4	1.30	1.05-1.43	y	96.0	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	98.8	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	98.4	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	97.1	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	99.3	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	96.9	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	100	50.0 - 145
13C-PCB-202	M+2/M+4	0.88	0.76-1.02	y	91.5	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	102	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	101	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	107	50.0 - 145
13C-PCB-209	M+4/M+6	1.23	0.99-1.33	y	104	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.02	0.88-1.20	y	92.6	65.0 - 135
13C-PCB-111	M+2/M+4	1.63	1.32-1.78	y	97.5	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	100	75.0 - 125

Analyst: b Date: 11/9/20

FAL ID: ST110720Z2 Filename: 07NOV20Z Sam:15 Acquired: 7-NOV-20 21:08:28 ICal: DAILY209FAL4-11-7-20
Client ID: CS209 200406A ConCal: ST110720Z1 EndCal: ST110720Z2
Results: 13378-7 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.04e+07	3.24 y	14:32	1.37	51.5		2.50	-	-	*	
13C-PCB-1	4.30e+07	3.21 y	14:31	0.71	98.8		2.50				98.8
PCB-3	2.97e+07	3.23 y	16:57	1.40	52.4		2.50	-	-	*	
13C-PCB-3	4.07e+07	3.30 y	16:56	0.69	96.2		2.50				96.2
PCB-4	2.46e+07	1.49 y	18:12	1.08	57.1		2.50	-	-	*	
13C-PCB-4	3.99e+07	1.60 y	18:11	0.65	99.5		2.50				99.5
PCB-15	3.89e+07	1.53 y	23:43	1.31	51.3		2.50	-	-	*	
13C-PCB-15	5.77e+07	1.63 y	23:41	0.98	96.4		2.50				96.4
PCB-19	1.48e+07	1.07 y	22:05	1.34	49.4		2.50	-	-	*	
13C-PCB-19	2.24e+07	1.12 y	22:03	0.38	95.1		2.50				95.1
13C-PCB-9	6.14e+07	1.61 y	19:51	-	129		2.50				
PCB-37	2.67e+07	1.13 y	30:21	1.28	51.3		2.50	-	-	*	
13C-PCB-37	4.07e+07	1.04 y	30:20	1.76	89.4		2.50				89.4
PCB-54	4.63e+07	0.78 y	25:37	1.37	99.5		2.50	-	-	*	
13C-PCB-54	3.40e+07	0.82 y	25:35	1.21	109		2.50				109
PCB-104	2.77e+07	1.57 y	30:02	1.22	100		2.50	-	-	*	
13C-PCB-104	2.26e+07	1.60 y	30:01	0.78	112		2.50				112
13C-PCB-28	5.25e+07	1.02 y	26:40	2.19	92.6		2.50				92.6
13C-PCB-52	2.59e+07	0.80 y	28:55	-	120		2.50				
PCB-81	5.38e+07	0.82 y	36:07	1.33	98.6		2.50	-	-	*	
13C-PCB-81	4.11e+07	0.79 y	36:06	1.84	92.6		2.50				92.6
PCB-77	4.93e+07	0.85 y	36:41	1.17	98.2		2.50	-	-	*	
13C-PCB-77	4.29e+07	0.80 y	36:39	1.89	93.9		2.50				93.9
PCB-155	2.87e+07	1.29 y	34:12	1.16	104		2.50	-	-	*	
13C-PCB-155	2.36e+07	1.30 y	34:11	1.02	96.0		2.50				96.0
13C-PCB-111	3.09e+07	1.63 y	36:15	1.31	97.5		2.50				97.5
13C-PCB-101	2.41e+07	1.64 y	34:36	-	131		2.50				
PCB-123	3.93e+07	1.62 y	38:19	1.21	92.8		2.50	-	-	*	
13C-PCB-123	3.50e+07	1.59 y	38:18	1.42	90.4		2.50				90.4
PCB-118	9.35e+07	1.62 y	38:29	1.21	209		2.50	-	-	*	
13C-PCB-118	3.72e+07	1.59 y	38:28	1.54	88.9		2.50				88.9
PCB-114	4.67e+07	1.63 y	39:05	1.30	105		2.50	-	-	*	
13C-PCB-114	3.42e+07	1.64 y	39:05	1.46	86.2		2.50				86.2
PCB-105	4.64e+07	1.64 y	39:55	1.31	103		2.50	-	-	*	
13C-PCB-105	3.45e+07	1.61 y	39:53	1.45	87.3		2.50				87.3
PCB-126	4.21e+07	1.63 y	42:02	1.28	101		2.50	-	-	*	
13C-PCB-126	3.24e+07	1.59 y	42:02	1.31	90.9		2.50				90.9
PCB-167	3.78e+07	1.26 y	43:24	1.24	101		2.50	-	-	*	
13C-PCB-167	3.02e+07	1.29 y	43:22	1.14	97.1		2.50				97.1
PCB-156	3.88e+07	1.25 y	44:38	1.30	101		2.50	-	-	*	
13C-PCB-156	2.97e+07	1.29 y	44:36	1.10	98.8		2.50				98.8
PCB-157	3.99e+07	1.28 y	44:53	1.27	102		2.50	-	-	*	
13C-PCB-157	3.09e+07	1.30 y	44:51	1.16	98.4		2.50				98.4
PCB-169	3.46e+07	1.25 y	46:45	1.21	99.4		2.50	-	-	*	
13C-PCB-169	2.89e+07	1.29 y	46:43	1.07	99.3		2.50				99.3
PCB-188	2.97e+07	1.08 y	39:42	1.19	102		2.50	-	-	*	
13C-PCB-188	2.44e+07	1.08 y	39:40	0.92	96.9		2.50				96.9
PCB-189	2.57e+07	1.06 y	48:25	1.15	102		2.50	-	-	*	
13C-PCB-189	2.18e+07	1.08 y	48:25	0.80	100		2.50				100
PCB-202	2.69e+07	0.93 y	44:48	1.11	151		2.50	-	-	*	
13C-PCB-202	1.60e+07	0.88 y	44:46	0.64	91.5		2.50				91.5
13C-PCB-178	1.83e+07	1.07 y	42:18	0.67	100		2.50				100
13C-PCB-138	2.72e+07	1.31 y	41:32	-	130		2.50				

FAL ID: ST110720Z2 Filename: 07NOV20Z Sam:15 Acquired: 7-NOV-20 21:08:28 ICal: DAILY209FAL4-11-7-20 2 of 2
Client ID: CS209 200406A ConCal: ST110720Z1 EndCal: ST110720Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	5.93e+07	0.92	y	50:05	1.18	147	2.50	-	-	*	
13C-PCB-205	3.41e+07	0.90	y	50:05	1.24	102	2.50				102
PCB-208	5.24e+07	1.34	y	49:09	1.11	148	2.50	-	-	*	
13C-PCB-208	3.20e+07	0.81	y	49:08	1.12	107	2.50				107
PCB-206	3.78e+07	1.32	y	51:16	1.13	147	2.50	-	-	*	
13C-PCB-206	2.28e+07	0.80	y	51:16	0.84	101	2.50				101
PCB-209	4.22e+07	1.21	y	52:28	1.24	150	2.50	-	-	*	
13C-PCB-209	2.26e+07	1.23	y	52:27	0.81	104	2.50				104
13C-PCB-194	2.68e+07	0.89	y	49:49	-	122	2.50				

Analyst: _____ Date: 11/9/20

Frontier Analytical Laboratory - Acquisition Log

Run Name:07NOV20Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

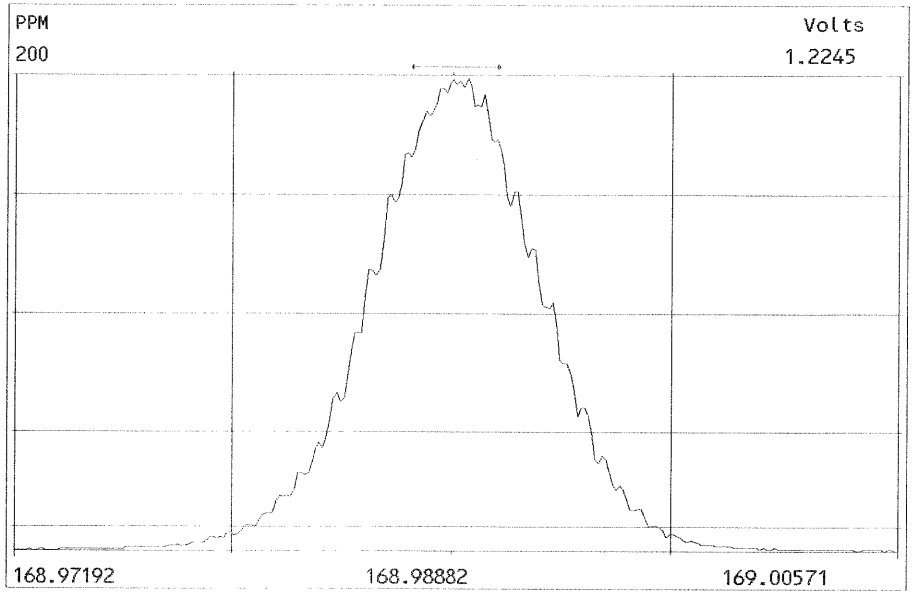
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
07NOV20Z	1	ST110720Z1	CS209 200406A	7-NOV-20 07:31:32	ST110720Z1	ST110720Z2	BS
07NOV20Z	2	05498-001-0001-OPR	OPR	7-NOV-20 08:29:52	ST110720Z1	ST110720Z2	BS
07NOV20Z	3	05498-001-0001-MB	Method Blank	7-NOV-20 09:28:13	ST110720Z1	ST110720Z2	BS
07NOV20Z	4	13378-007-0001-SA	LDW-Y3-LBS-SU-ENR-A-CLAM	7-NOV-20 10:26:34	ST110720Z1	ST110720Z2	BS
07NOV20Z	5	13378-014-0001-SA	LDW-Y3-LBS-SU-ENR-B-CLAM	7-NOV-20 11:24:55	ST110720Z1	ST110720Z2	BS
07NOV20Z	6	13378-021-0001-SA	LDW-Y3-LBS-SU-ENR-C-CLAM	7-NOV-20 12:23:16	ST110720Z1	ST110720Z2	BS
07NOV20Z	7	13379-007-0001-SA	LDW-Y3-LBS-SU-ENR+AC-A-CLAM	7-NOV-20 13:21:38	ST110720Z1	ST110720Z2	BS
07NOV20Z	8	13379-014-0001-SA	LDW-Y3-LBS-SU-ENR+AC-B-CLAM	7-NOV-20 14:19:59	ST110720Z1	ST110720Z2	BS
07NOV20Z	9	13379-021-0001-SA	LDW-Y3-LBS-SU-ENR+AC-C-CLAM	7-NOV-20 15:18:21	ST110720Z1	ST110720Z2	BS
07NOV20Z	10	13380-007-0001-SA	LDW-Y3-LBS-SU-ENR-A-WORM	7-NOV-20 16:16:42	ST110720Z1	ST110720Z2	BS
07NOV20Z	11	13380-014-0001-SA	LDW-Y3-LBS-SU-ENR-B-WORM	7-NOV-20 17:15:03	ST110720Z1	ST110720Z2	BS
07NOV20Z	12	SB110720Z1	Solvent Blank	7-NOV-20 18:13:25	ST110720Z1	ST110720Z2	BS
07NOV20Z	13	13371-012-0001-SA	LDW-Y3-IN-S010-TB	7-NOV-20 19:11:46	ST110720Z1	ST110720Z2	BS
07NOV20Z	14	SB110720Z2	Solvent Blank	7-NOV-20 20:10:07	ST110720Z1	ST110720Z2	BS
07NOV20Z	15	ST110720Z2	CS209 200406A	7-NOV-20 21:08:28	ST110720Z1	ST110720Z2	BS

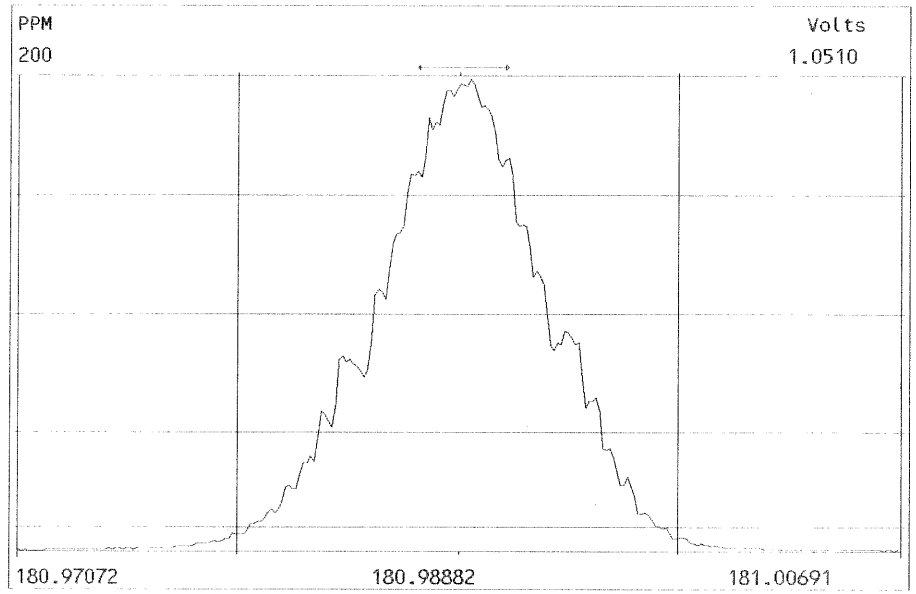
11/9/20

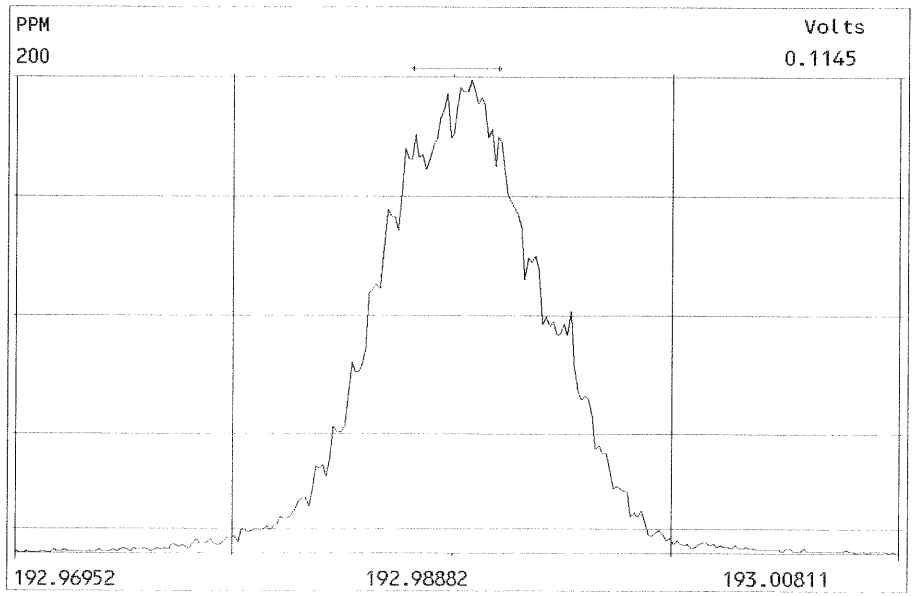
Data Backed Up:_____

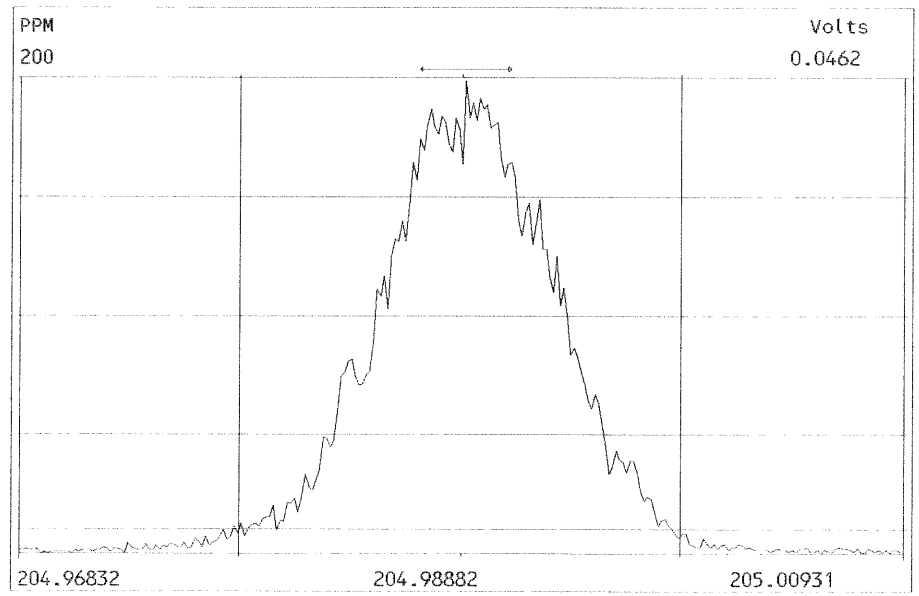
Date:_____

Peak Locate Examination: 7-NOV-2020:07:29 File:07NOV20Z
Experiment:1668PCB Function:1 Reference:PFK

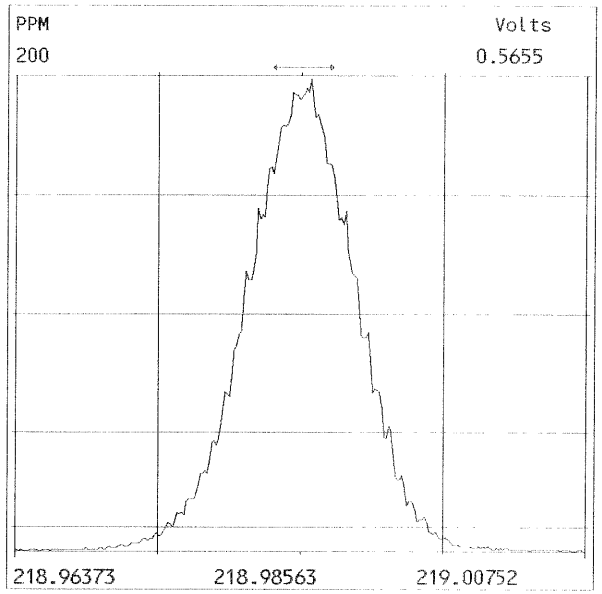


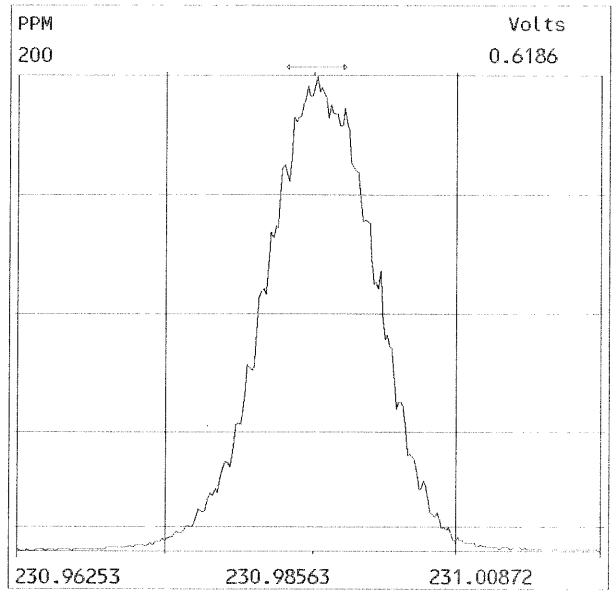


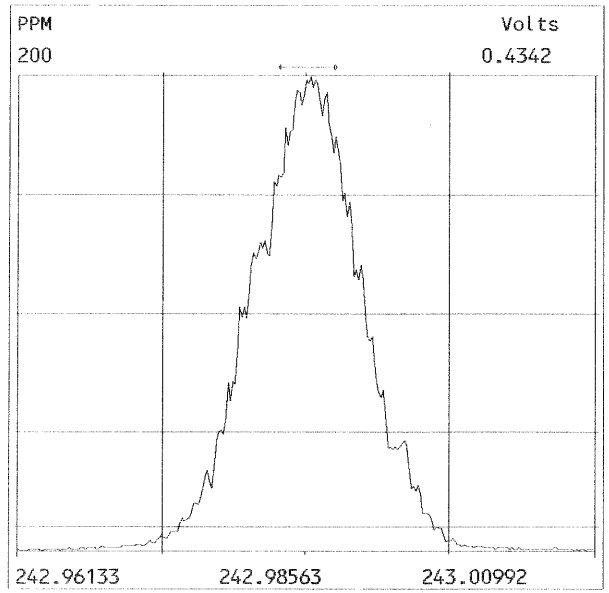


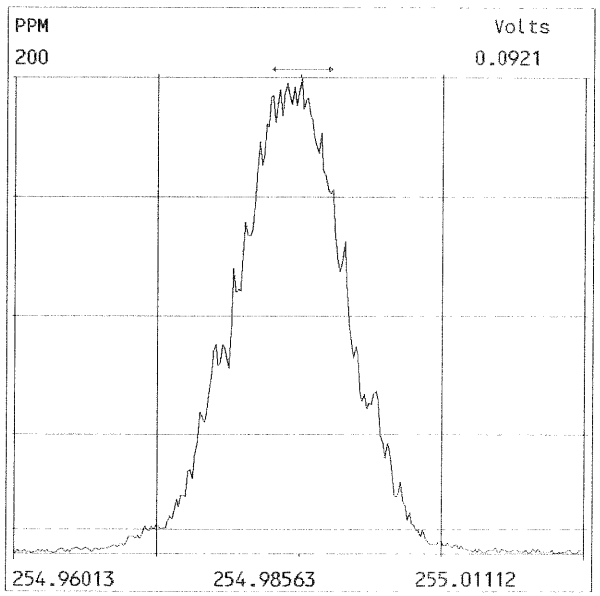


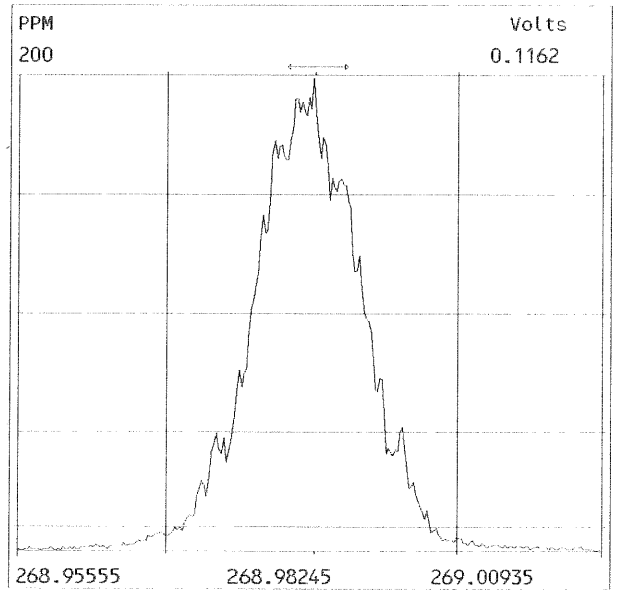
Peak Locate Examination: 7-NOV-2020:07:29 File:07NOV20Z
Experiment:1668PCB Function:2 Reference:PFK

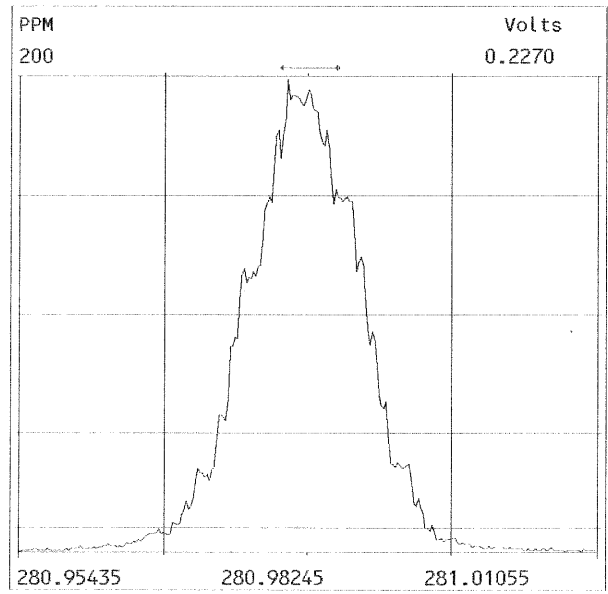




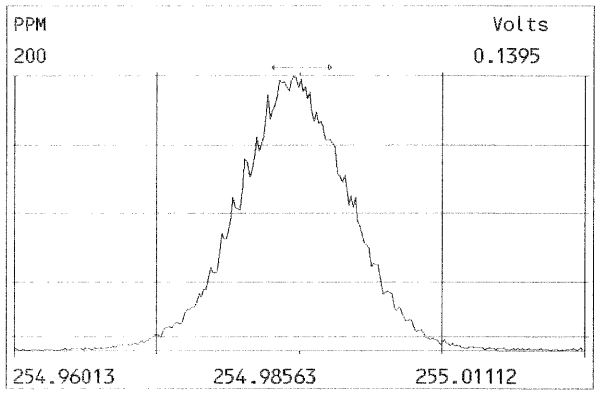


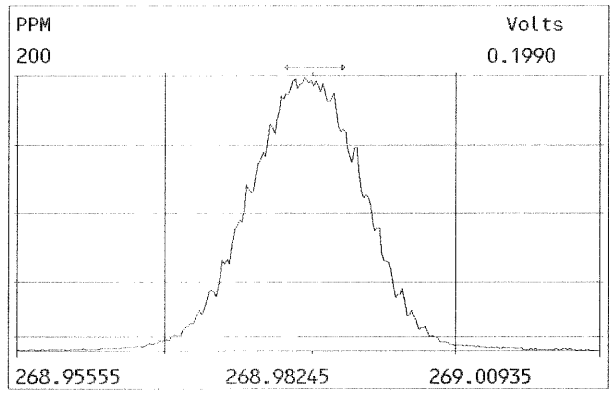


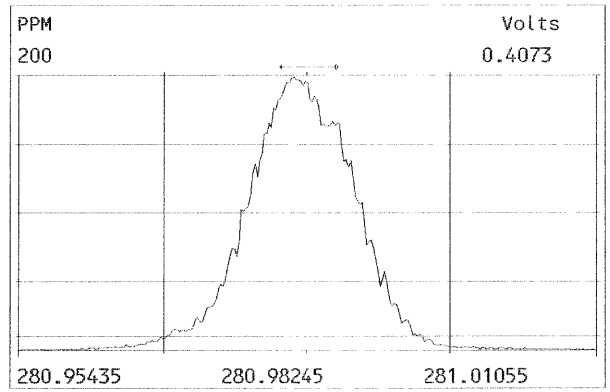


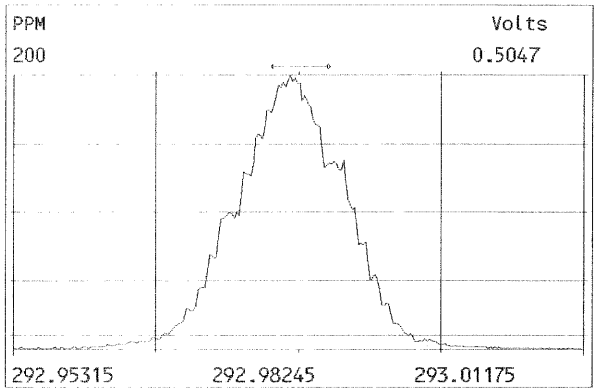


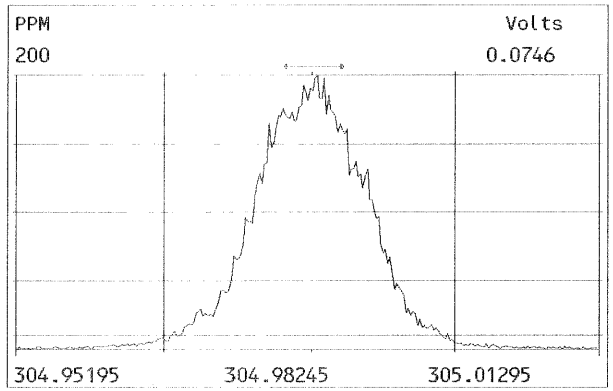
Peak Locate Examination: 7-NOV-2020:07:29 File:07NOV20Z
Experiment:1668PCB Function:3 Reference:PFK

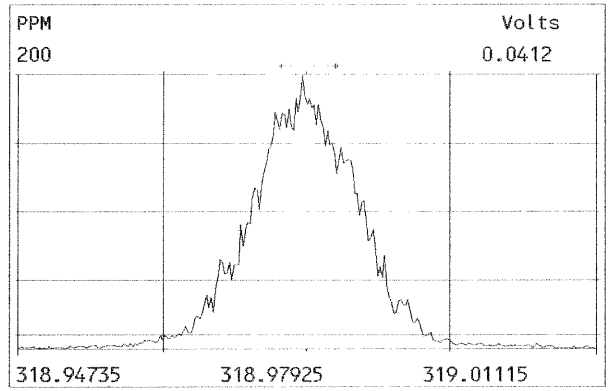


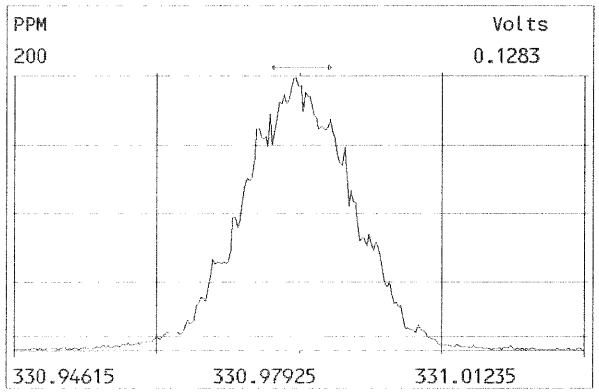


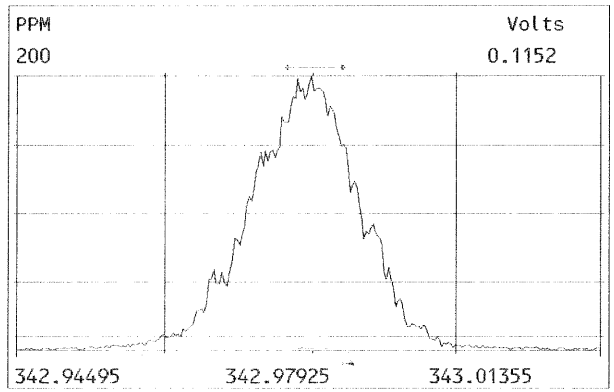






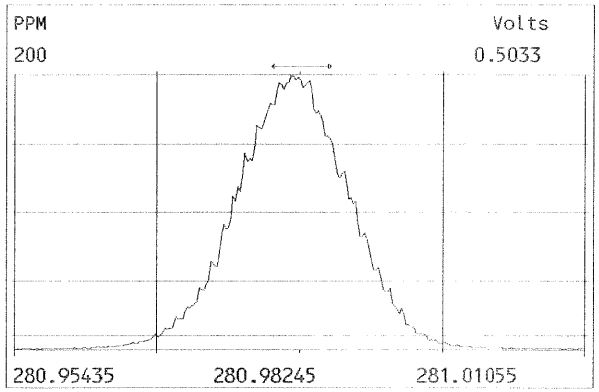


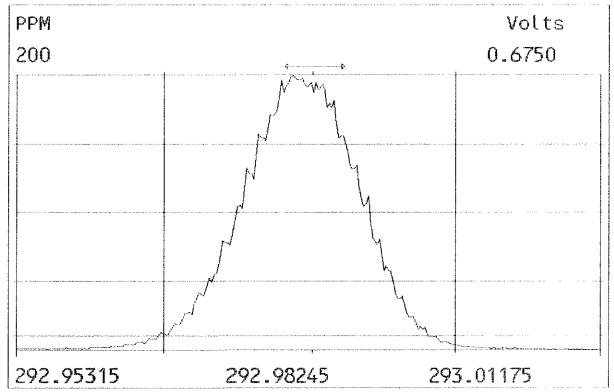


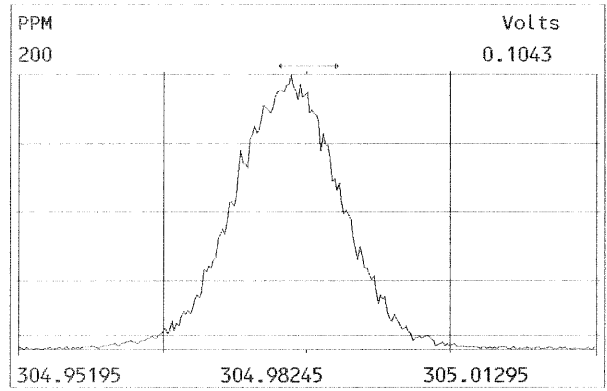


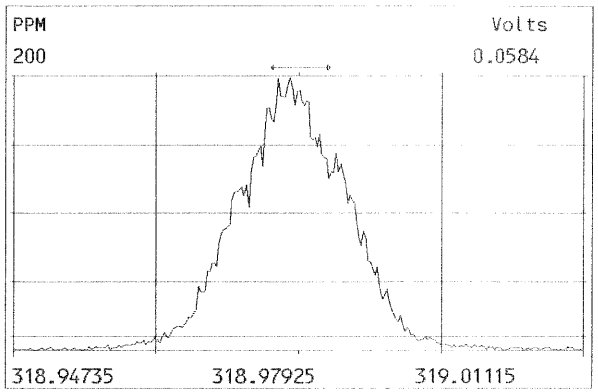
Peak Locate Examination: 7-NOV-2020:07:30 File:07NOV20Z

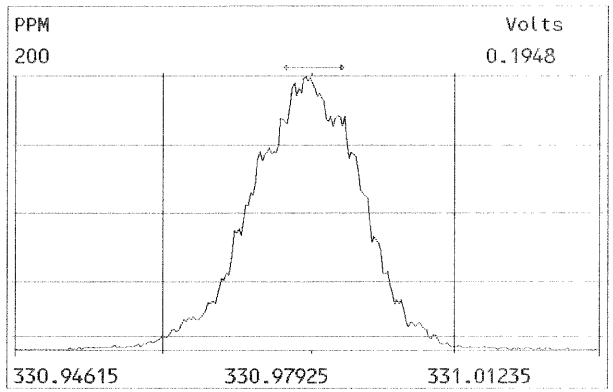
Experiment:1668PCB Function:4 Reference:PFK

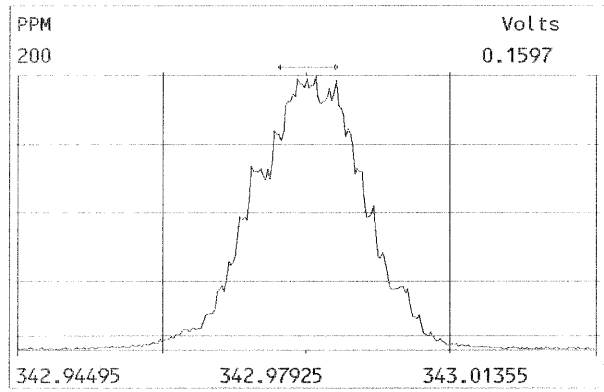


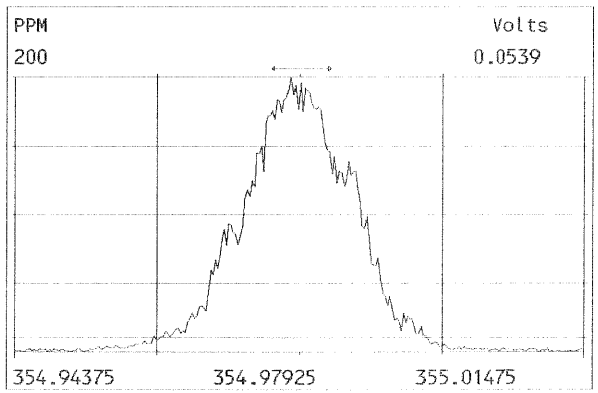


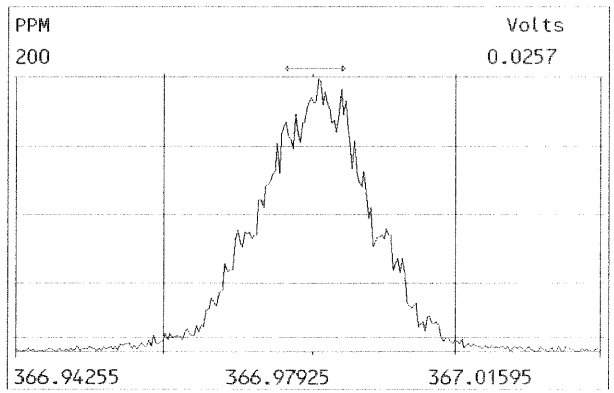


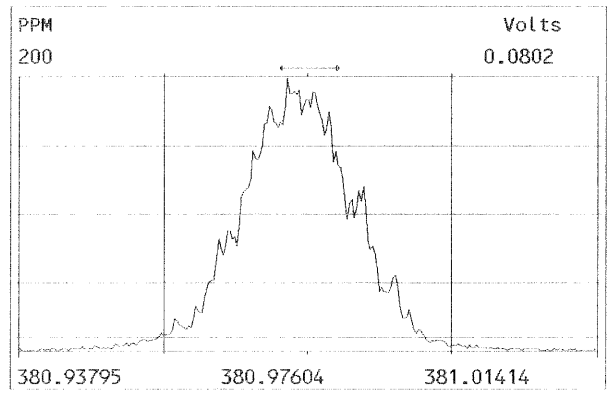






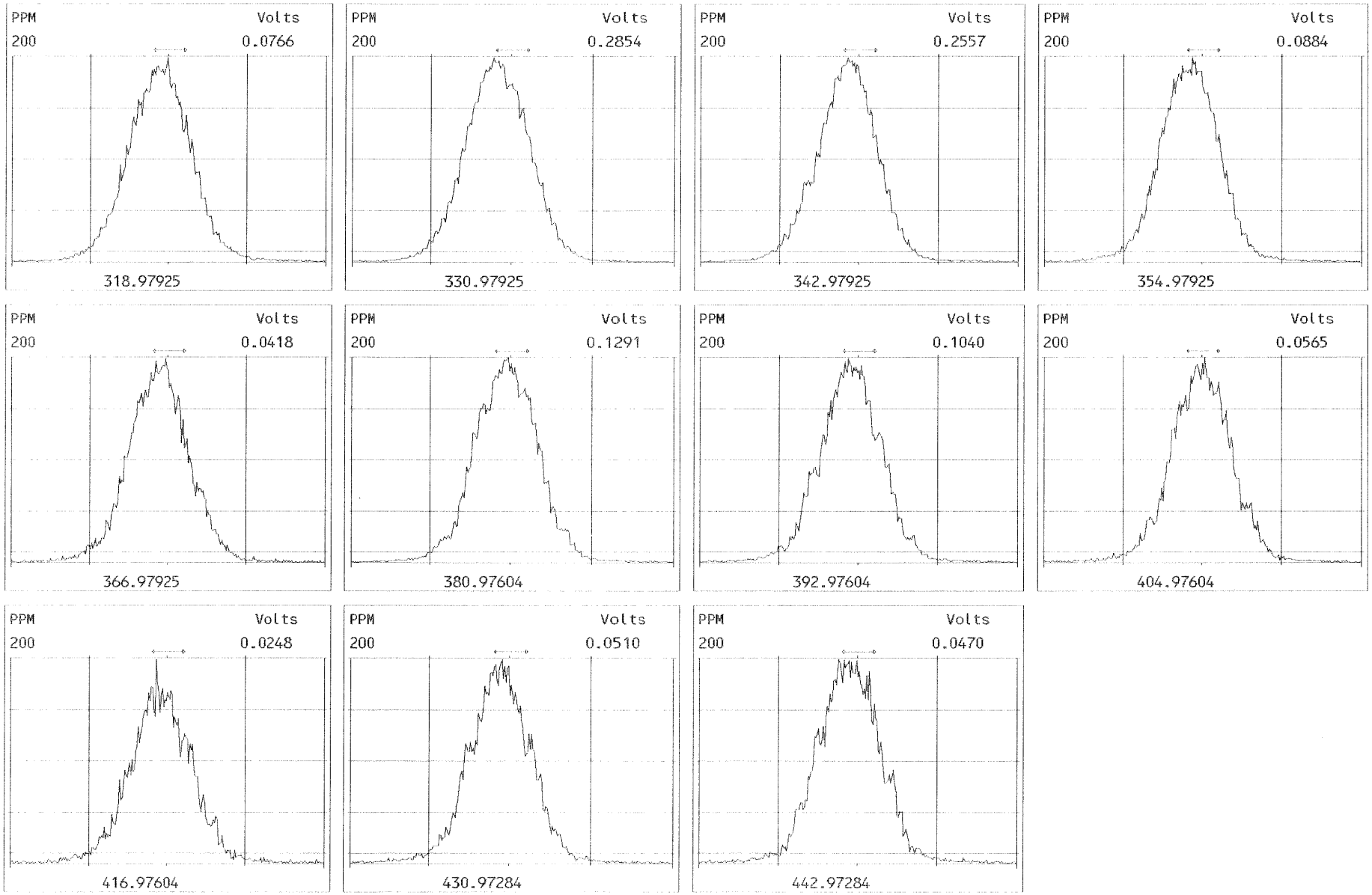






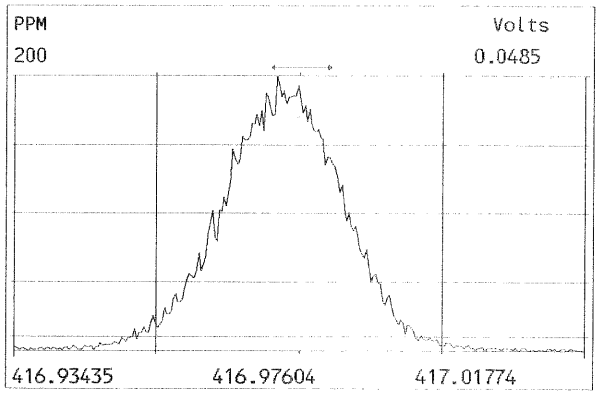
Peak Locate Examination: 7-NOV-2020:07:30 File:07NOV20Z

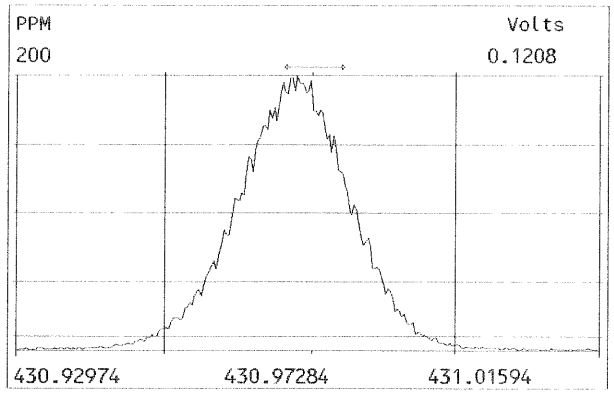
Experiment:1668PCB Function:5 Reference:PFK

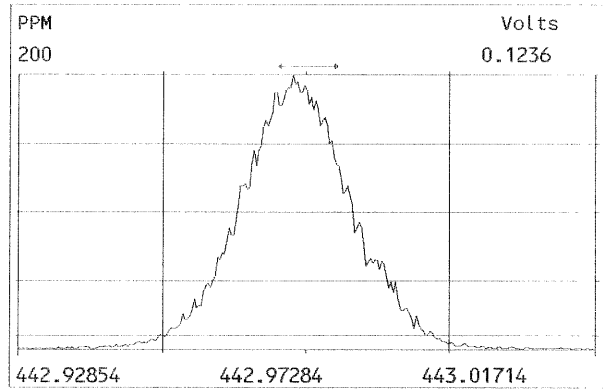


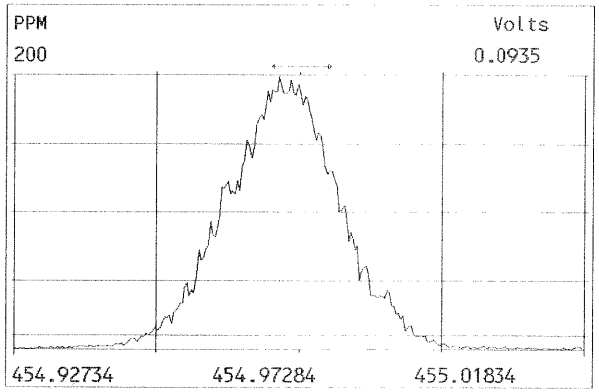
Peak Locate Examination: 7-NOV-2020:07:31 File:07NOV20Z

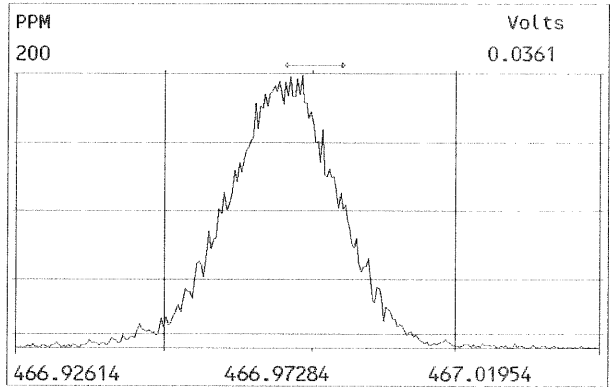
Experiment:1668PCB Function:6 Reference:PFK

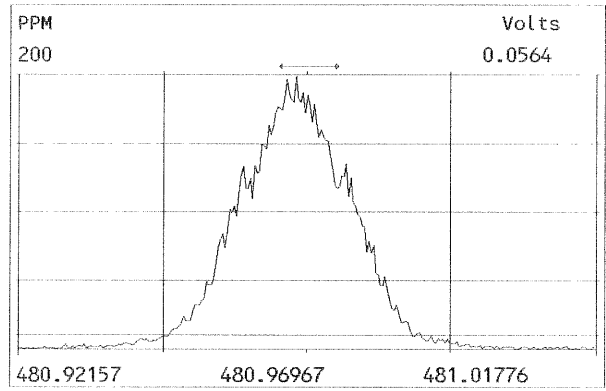


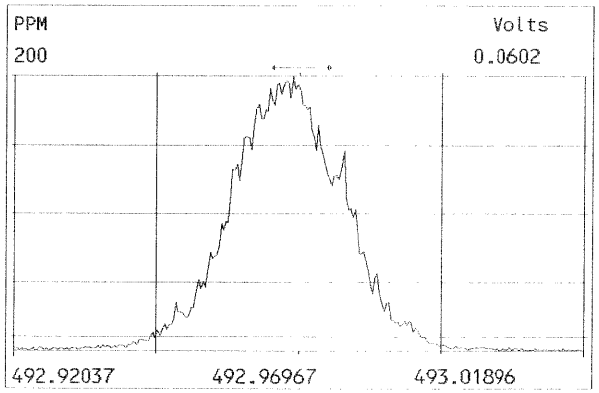


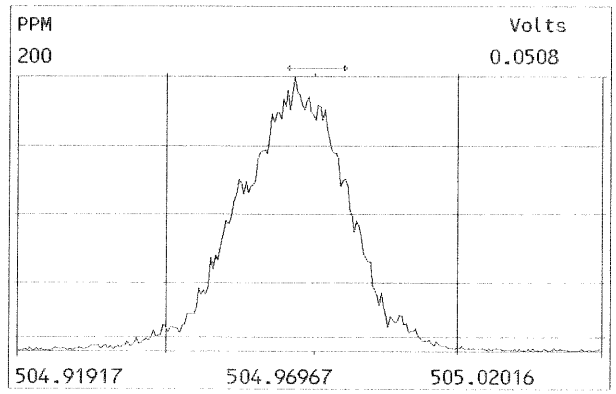


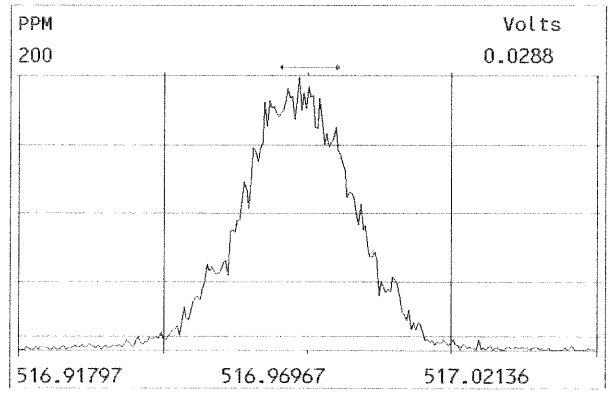




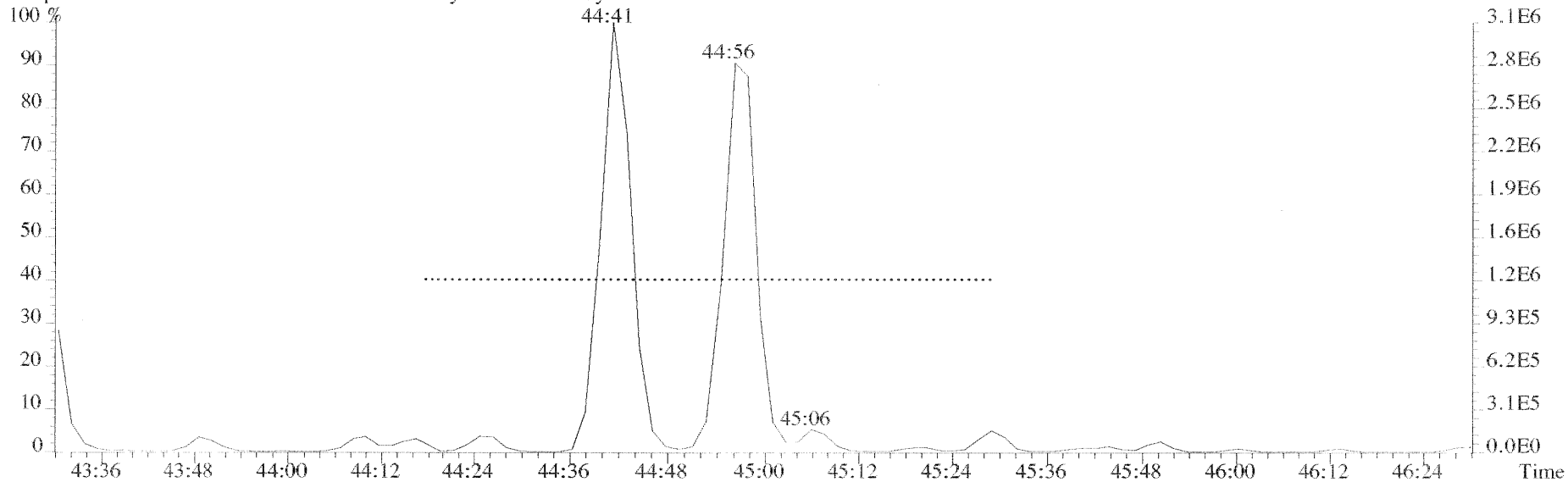




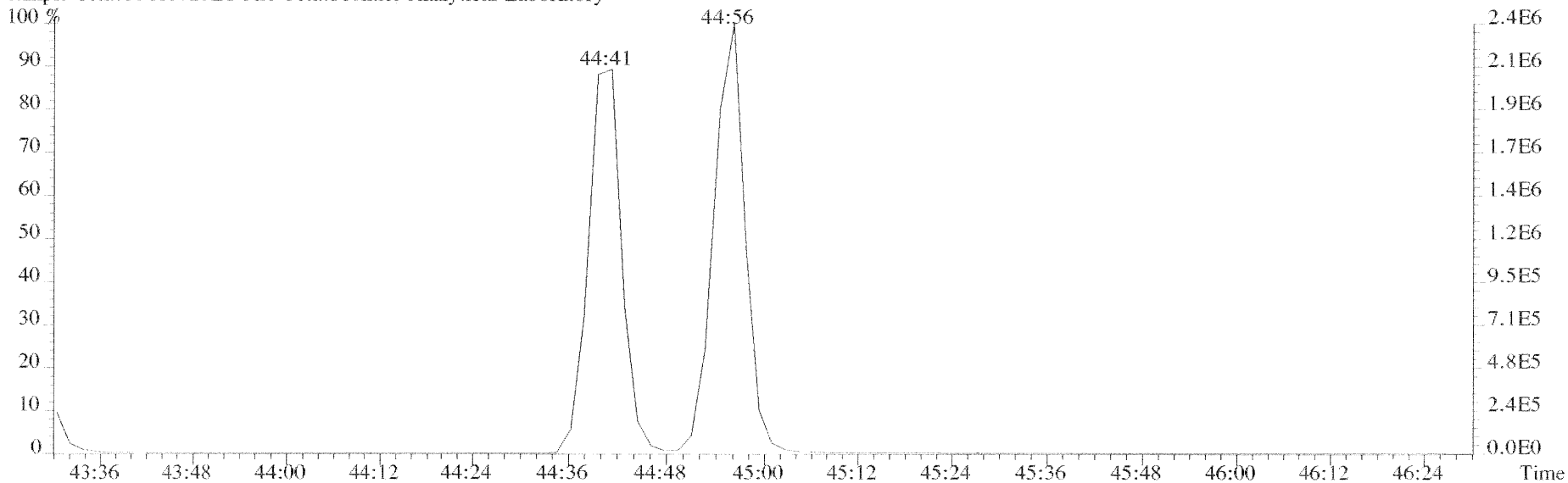




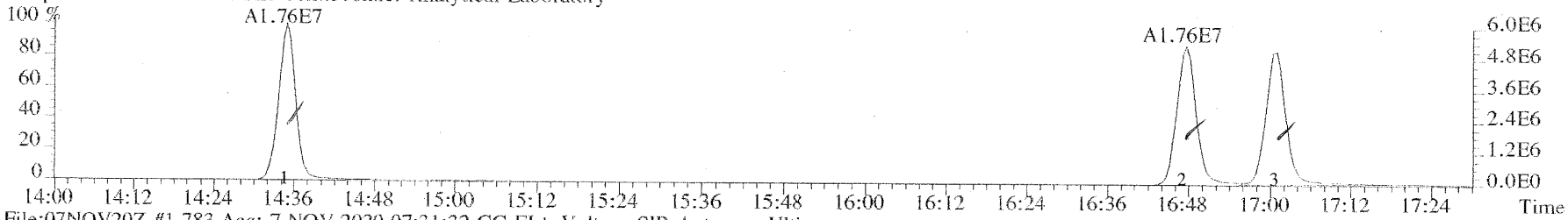
File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



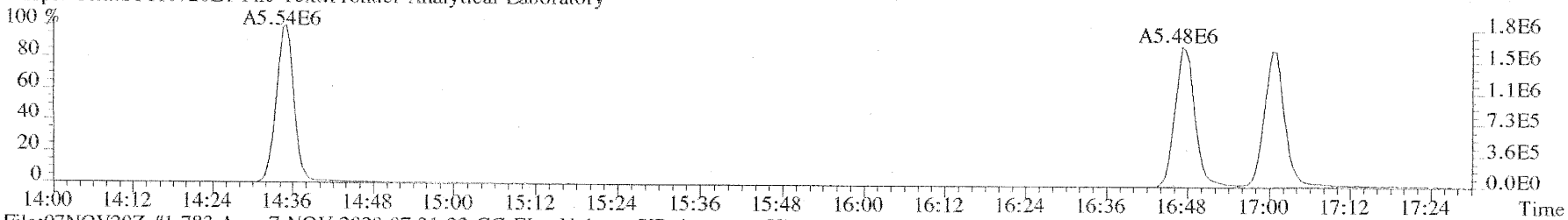
File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



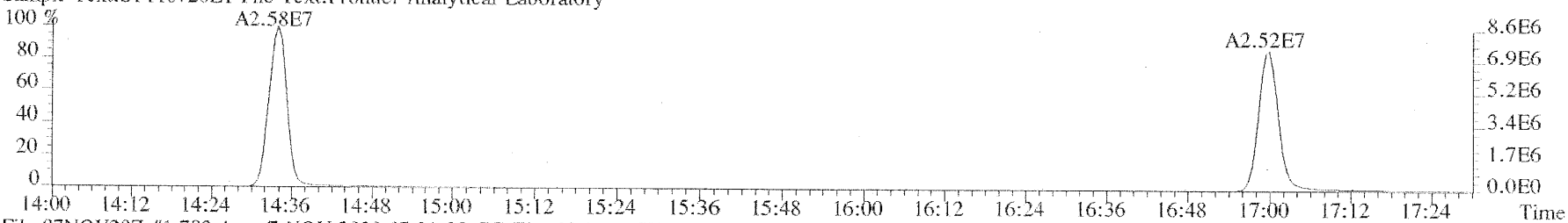
File:07NOV20Z #1-783 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



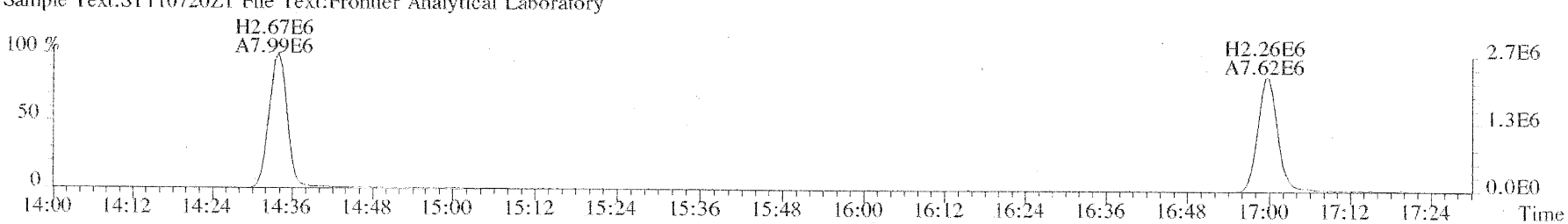
File:07NOV20Z #1-783 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



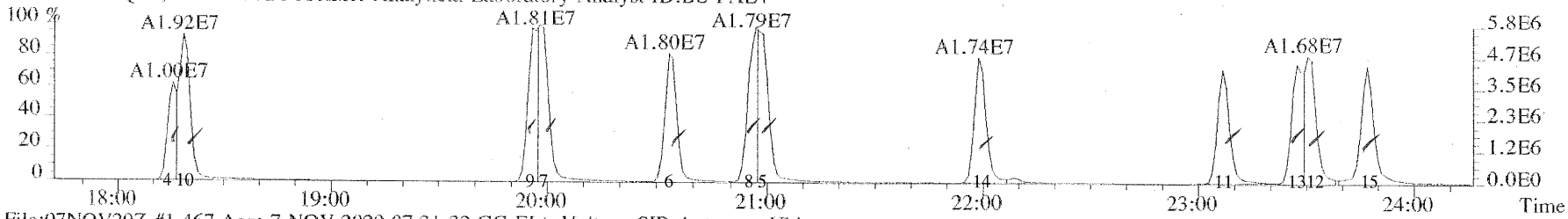
File:07NOV20Z #1-783 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



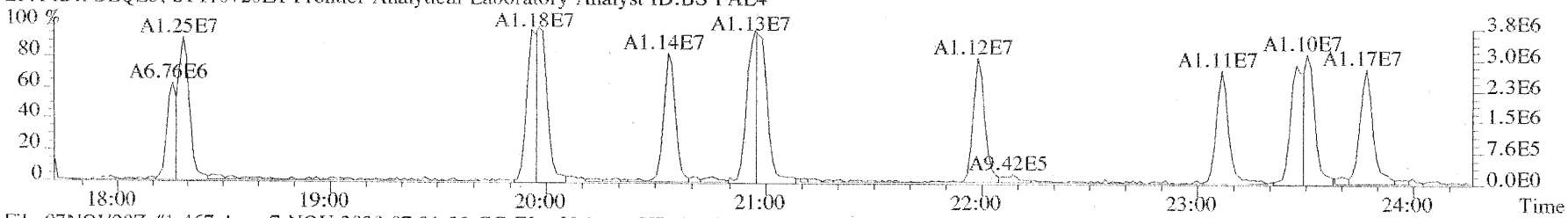
File:07NOV20Z #1-783 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



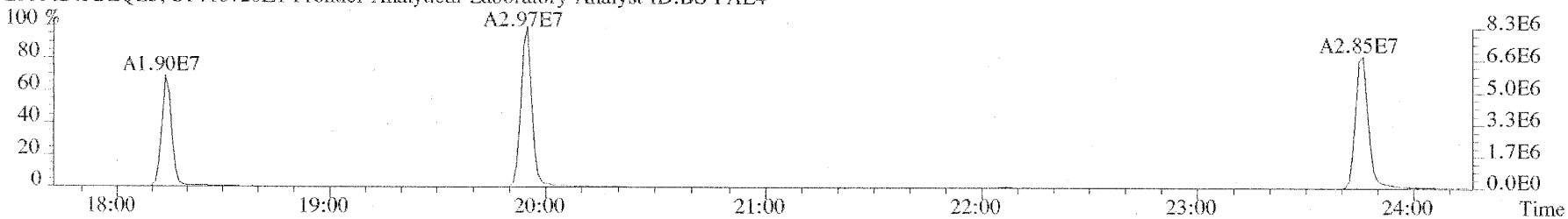
File:07NOV20Z #1-467 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID:PBEQL3; ST110720Z1 Frontier Analytical Laboratory Analyst ID:BS FAL4



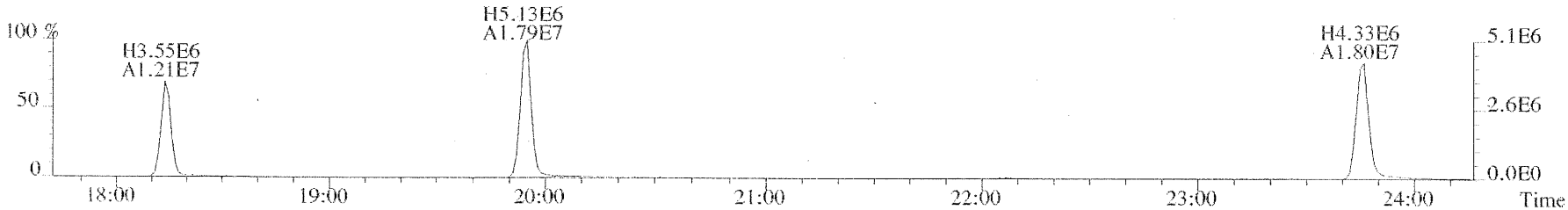
File:07NOV20Z #1-467 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
223.9975 F:2 BSUB(10000,15,-3.0) Exp:1668PCB
EPA ID:PBEQL3; ST110720Z1 Frontier Analytical Laboratory Analyst ID:BS FAL4



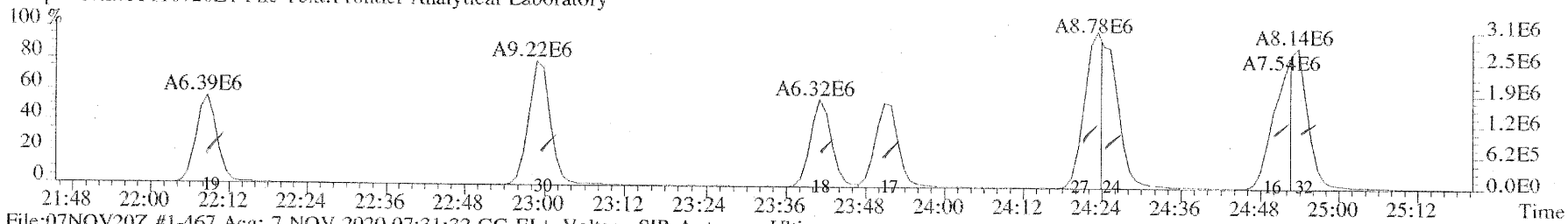
File:07NOV20Z #1-467 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID:PBEQL3; ST110720Z1 Frontier Analytical Laboratory Analyst ID:BS FAL4



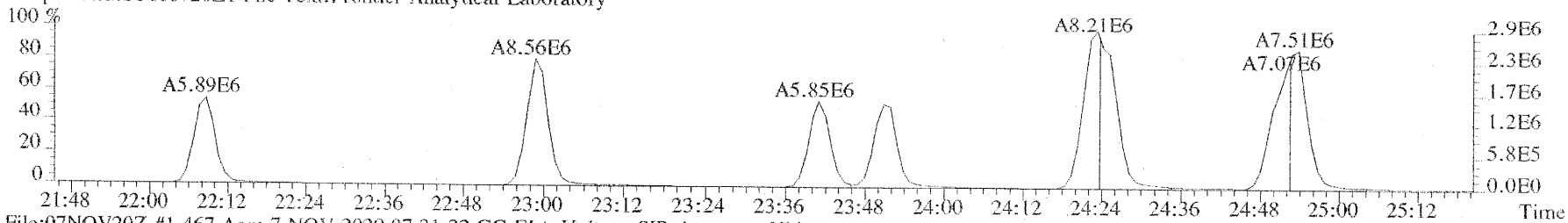
File:07NOV20Z #1-467 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
EPA ID:PBEQL3; ST110720Z1 Frontier Analytical Laboratory Analyst ID:BS FAL4



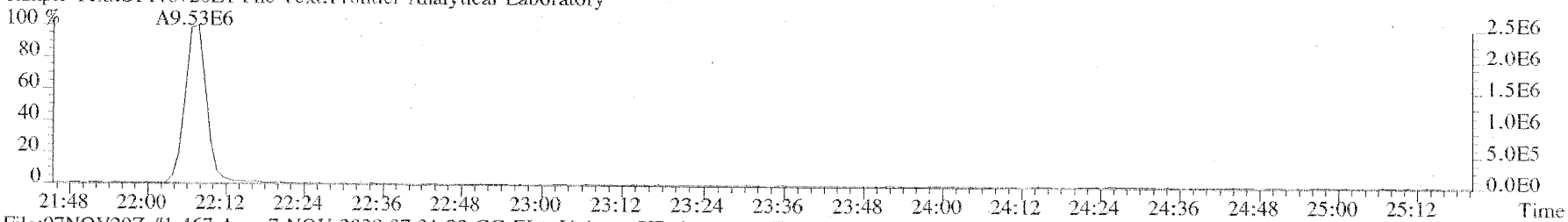
File:07NOV20Z #1-467 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



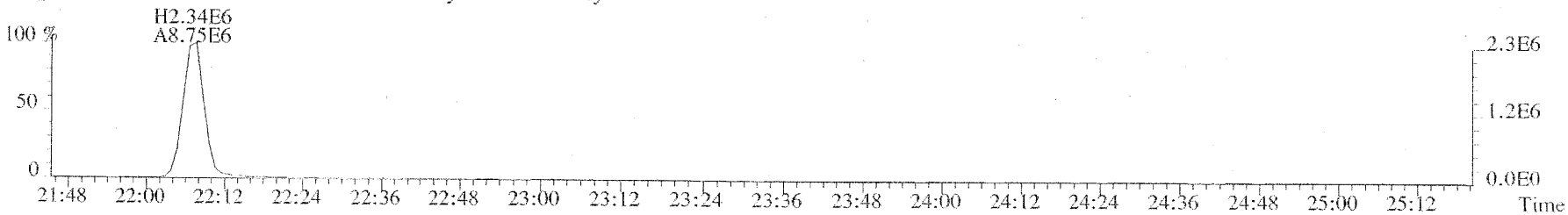
File:07NOV20Z #1-467 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



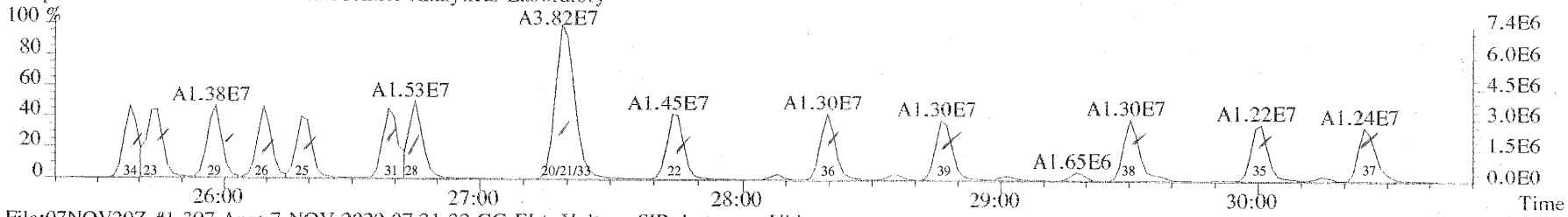
File:07NOV20Z #1-467 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



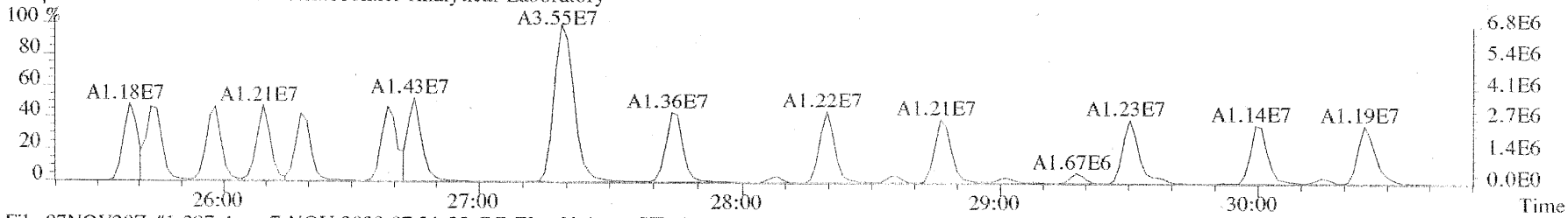
File:07NOV20Z #1-467 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



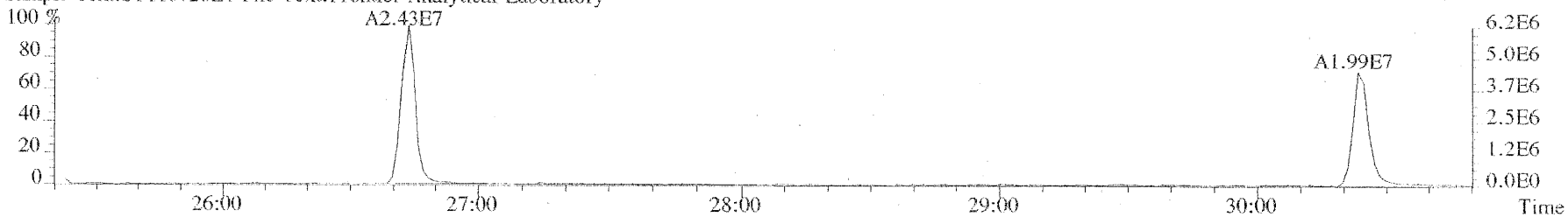
File:07NOV20Z #1-397 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



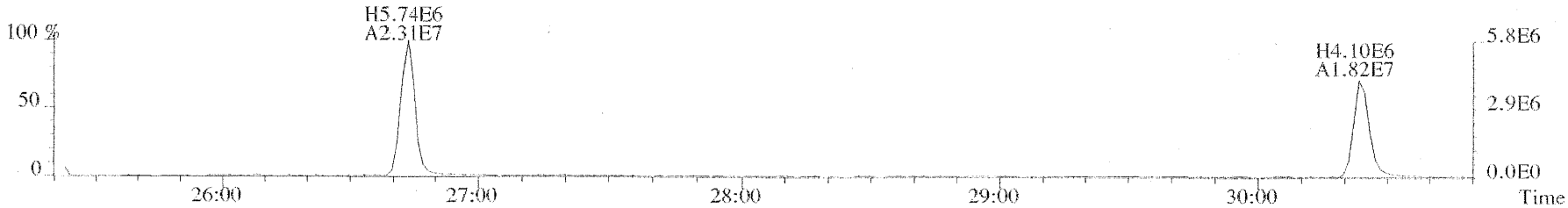
File:07NOV20Z #1-397 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



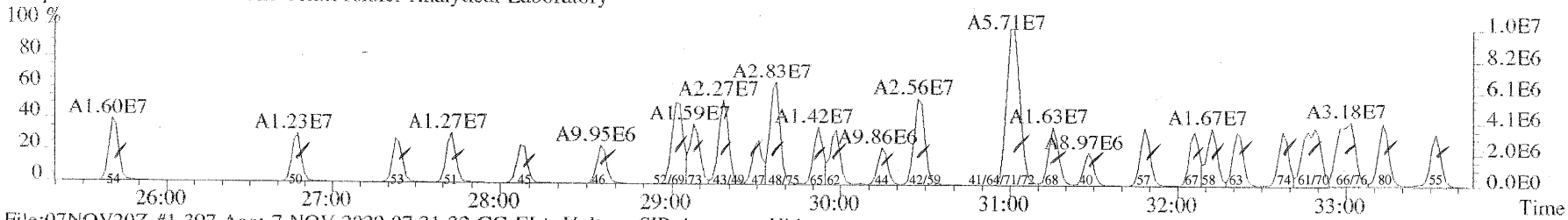
File:07NOV20Z #1-397 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



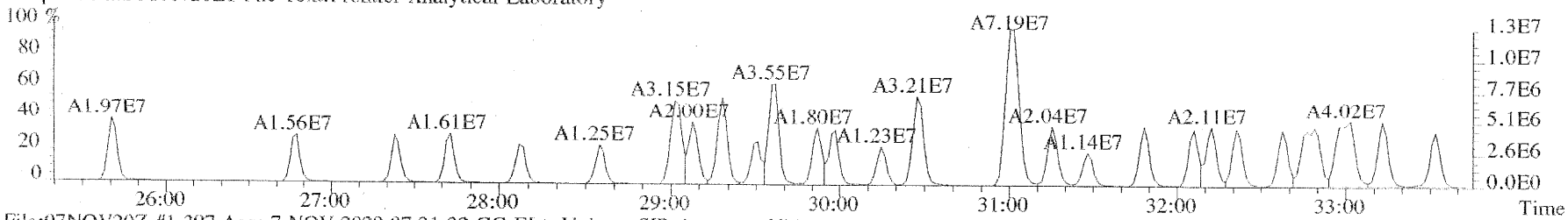
File:07NOV20Z #1-397 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



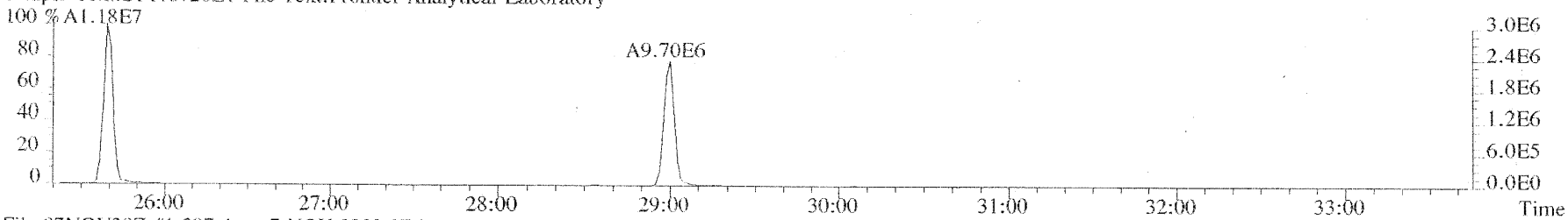
File:07NOV20Z #1-397 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



File:07NOV20Z #1-397 Acq: 7-NOV-2020 07:31:32 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:ST110720Z1 File Text:Frontier Analytical Laboratory



File:07NOV20Z #1-397 Acq: 7-NOV-2020 07:31:32 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:ST110720Z1 File Text:Frontier Analytical Laboratory



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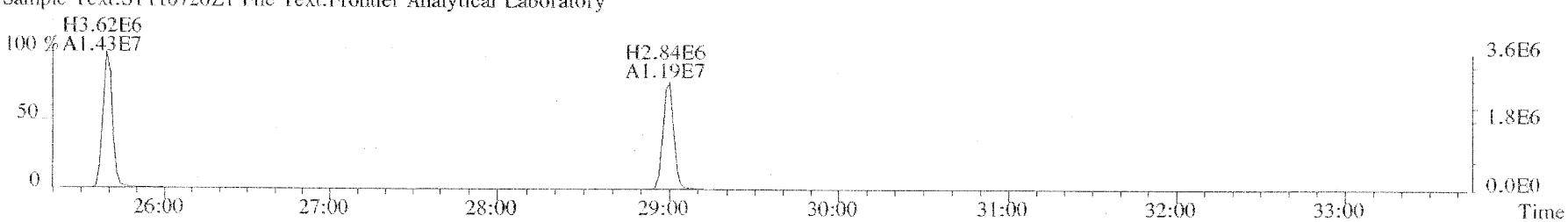
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



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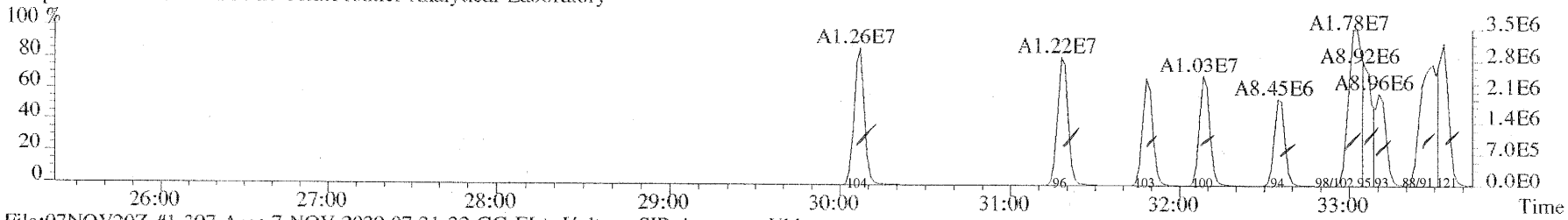
325.8804 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



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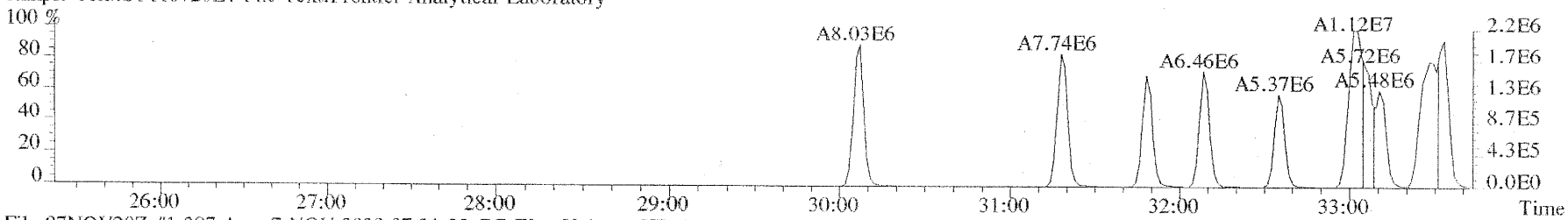
327.8775 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



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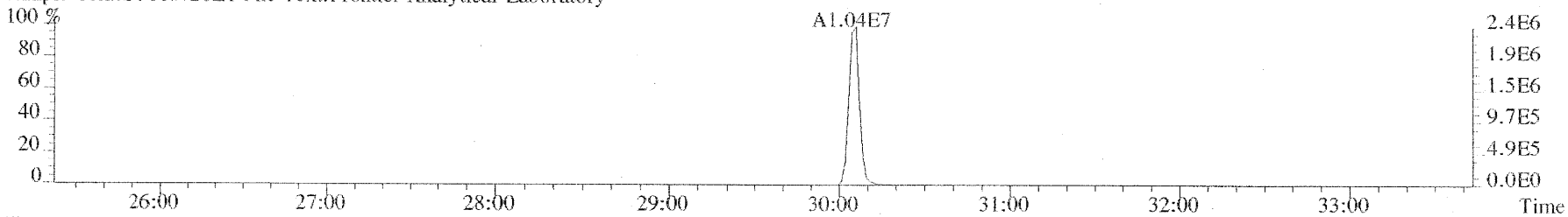
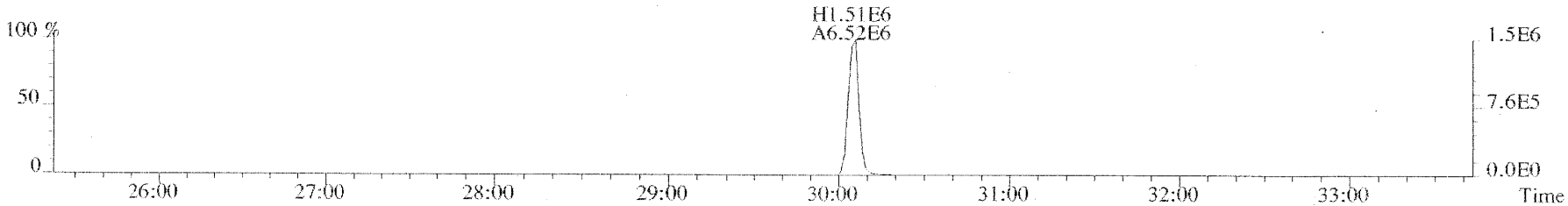
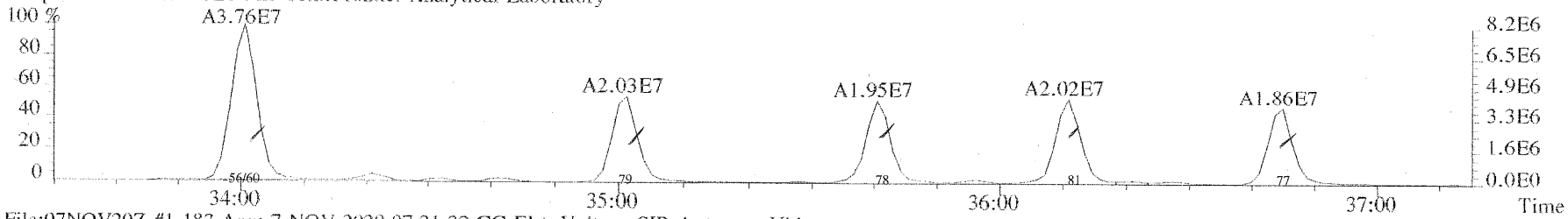
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



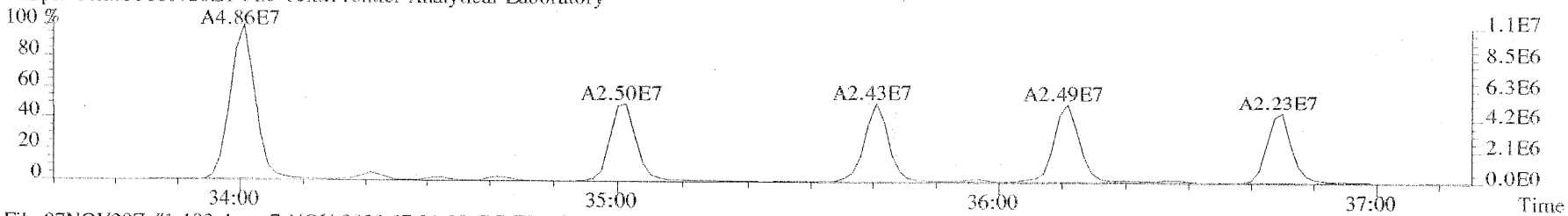
File:07NOV20Z #1-397 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



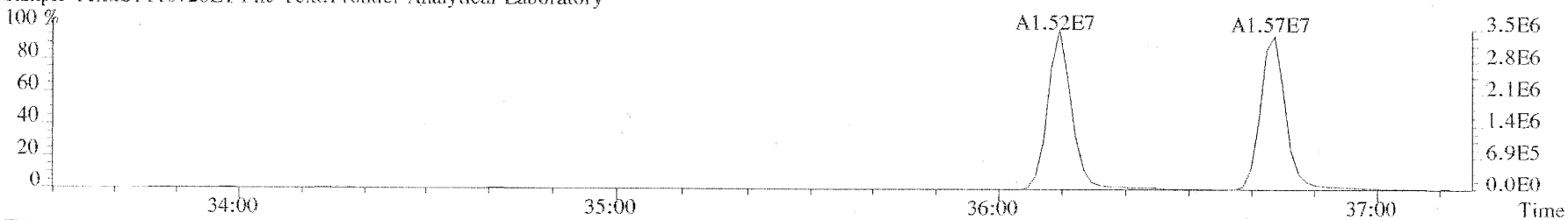
File:07NOV20Z #1-183 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



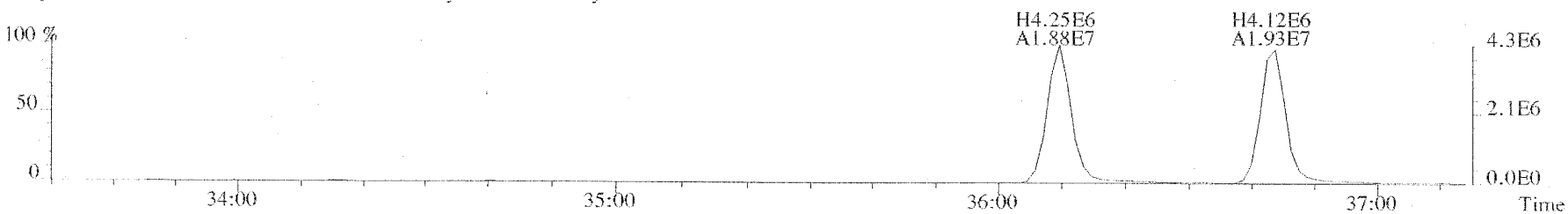
File:07NOV20Z #1-183 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



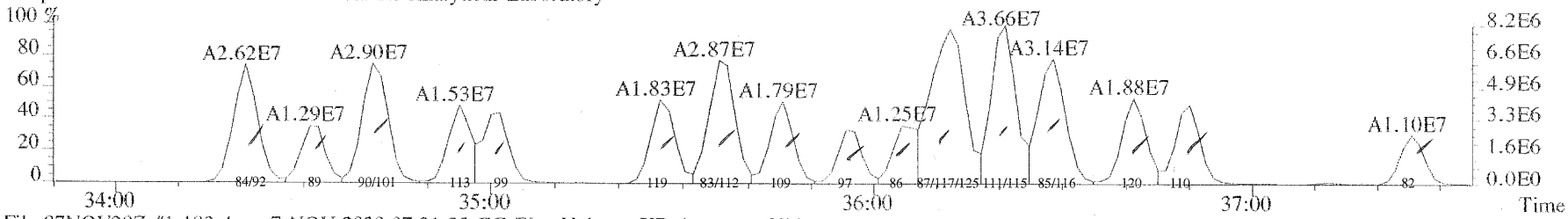
File:07NOV20Z #1-183 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



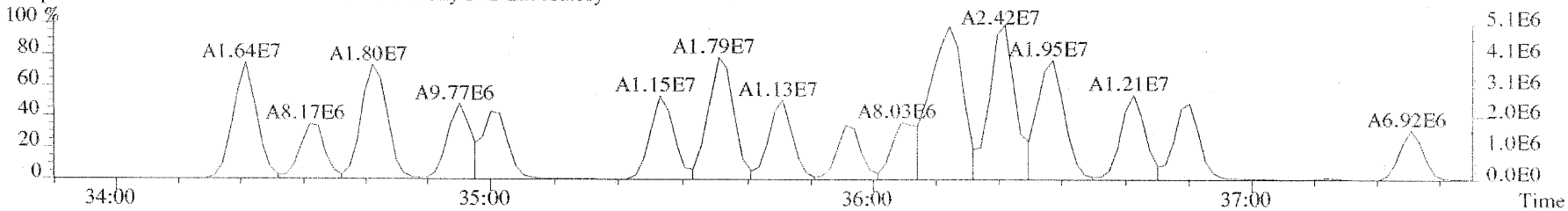
File:07NOV20Z #1-183 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



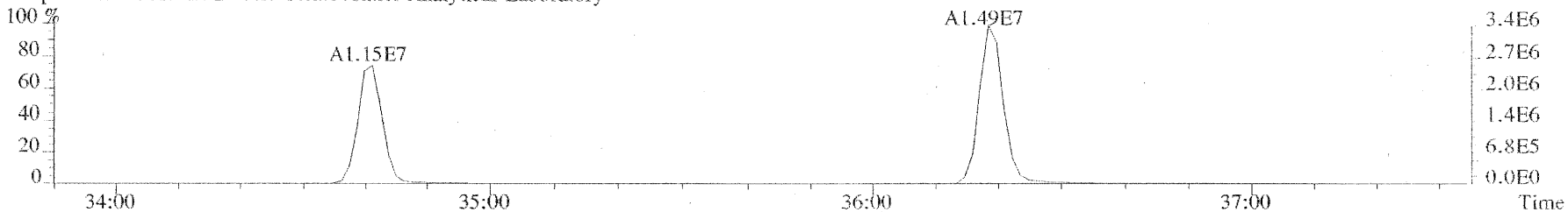
File:07NOV20Z #1-183 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



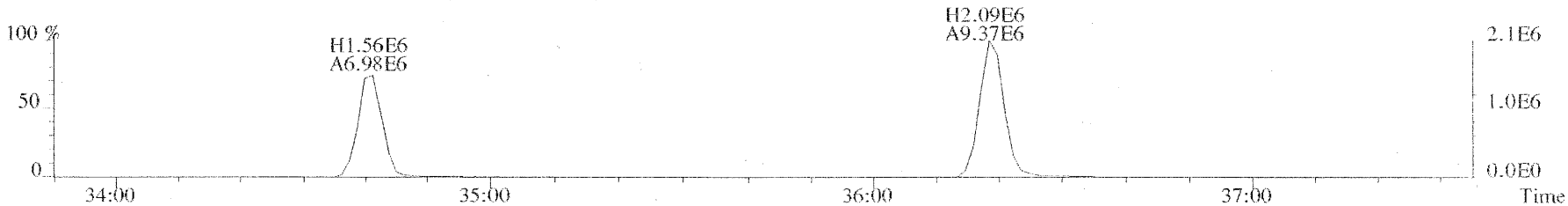
File:07NOV20Z #1-183 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



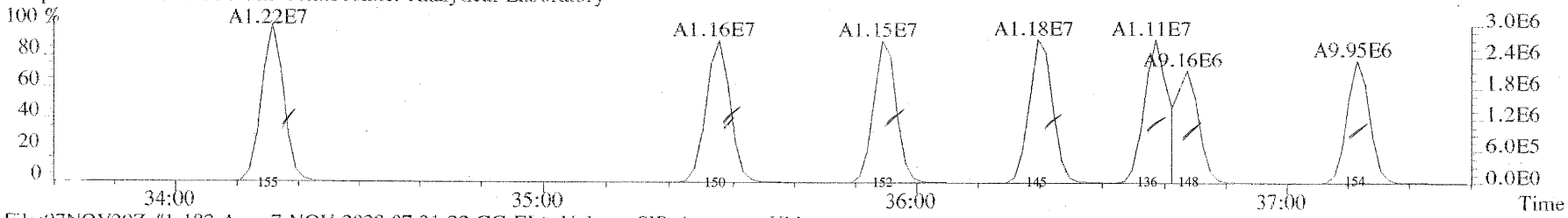
File:07NOV20Z #1-183 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



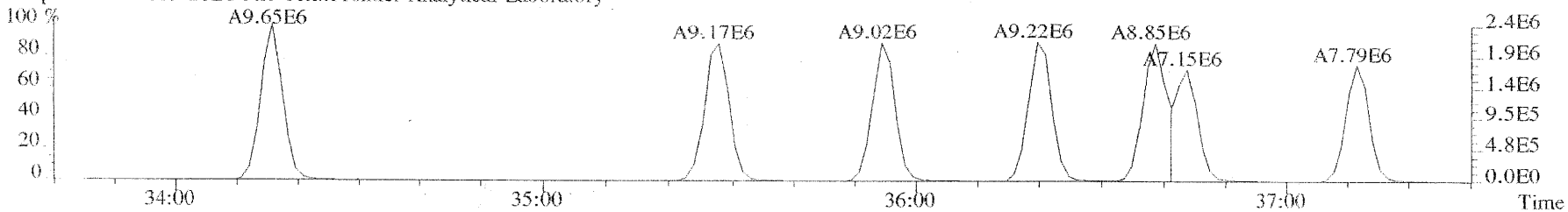
File:07NOV20Z #1-183 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



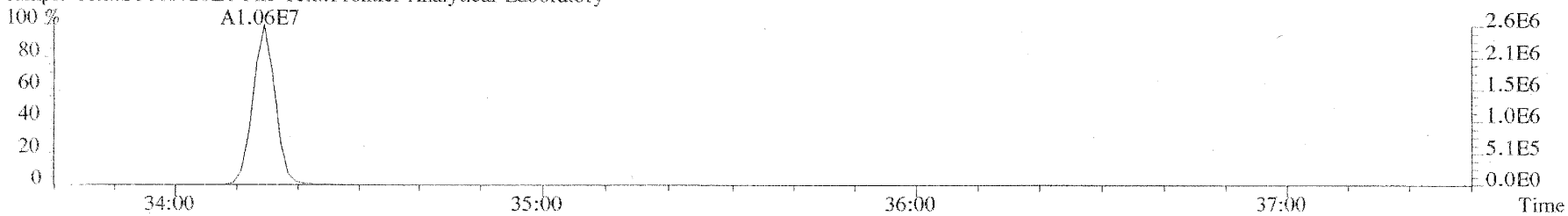
File:07NOV20Z #1-183 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



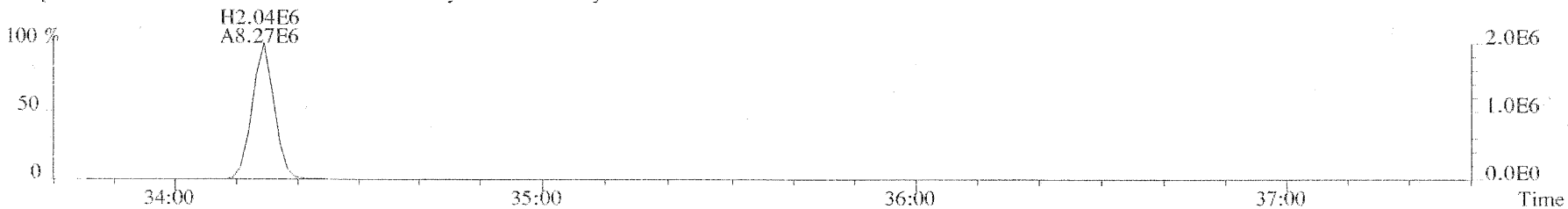
File:07NOV20Z #1-183 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



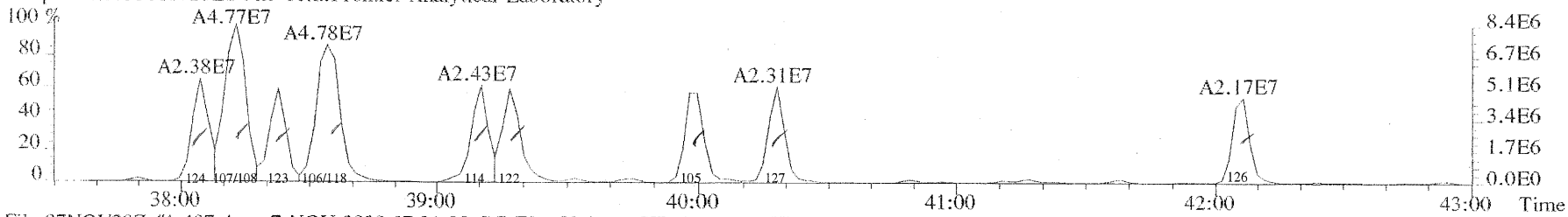
File:07NOV20Z #1-183 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



File:07NOV20Z #1-183 Acq: 7-NOV-2020 07:31:32 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:ST110720Z1 File Text:Frontier Analytical Laboratory



File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 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:ST110720Z1 File Text:Frontier Analytical Laboratory



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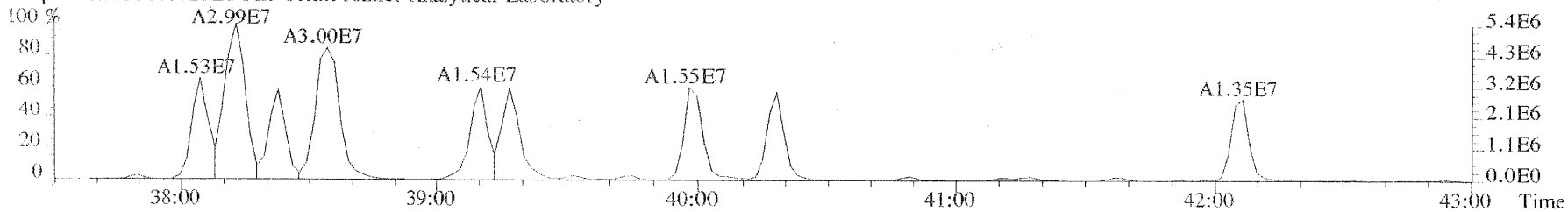
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



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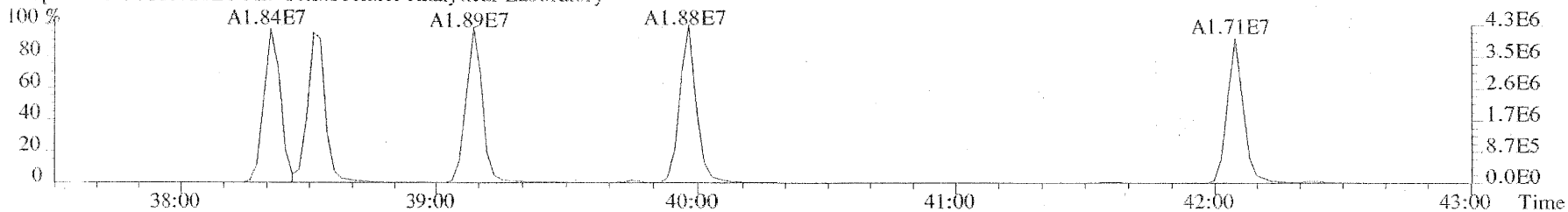

File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
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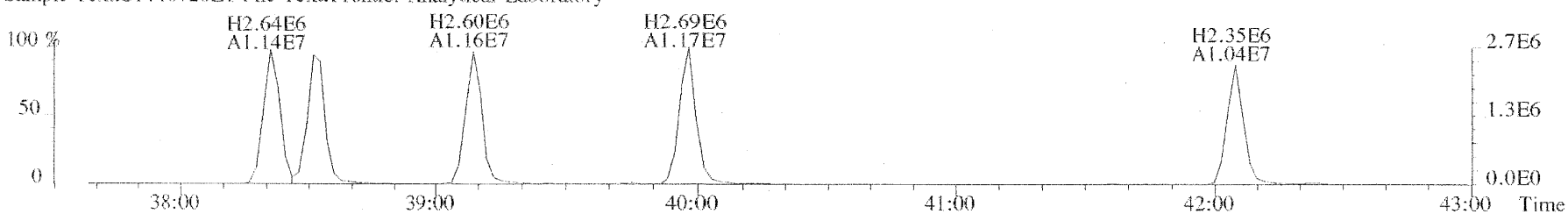
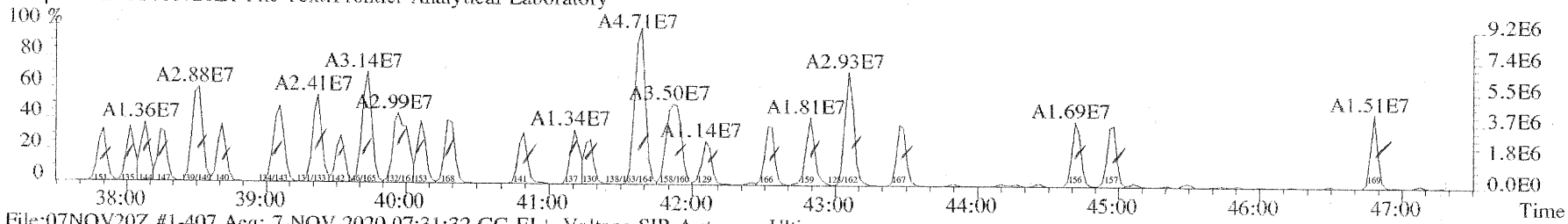
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 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:ST110720Z1 File Text:Frontier Analytical Laboratory



File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
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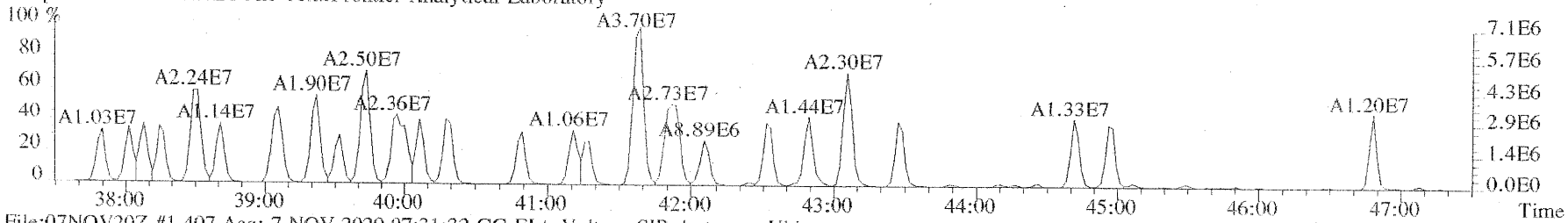
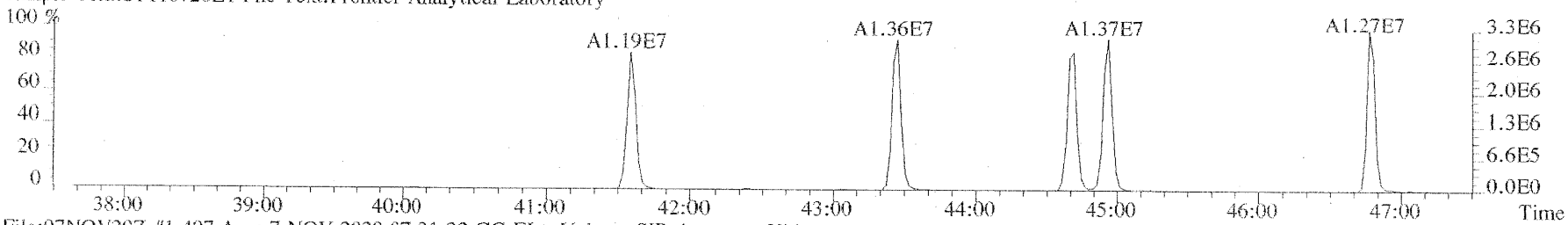
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 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:ST110720Z1 File Text:Frontier Analytical Laboratory



File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
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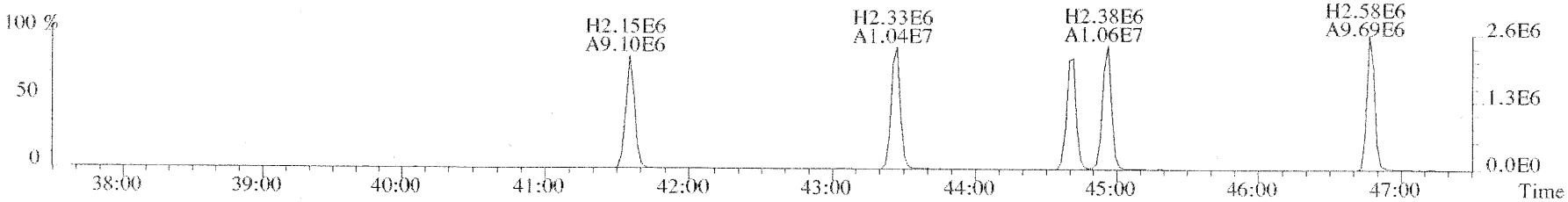
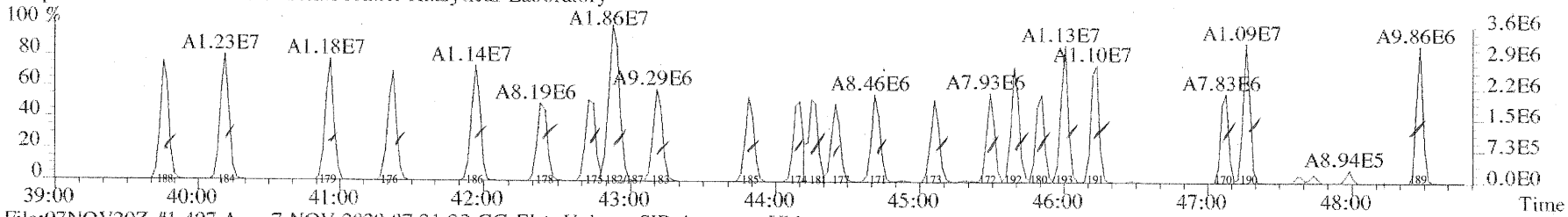
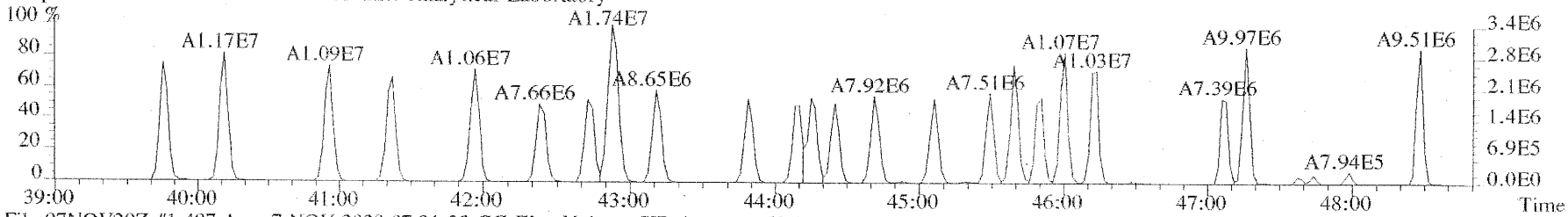
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



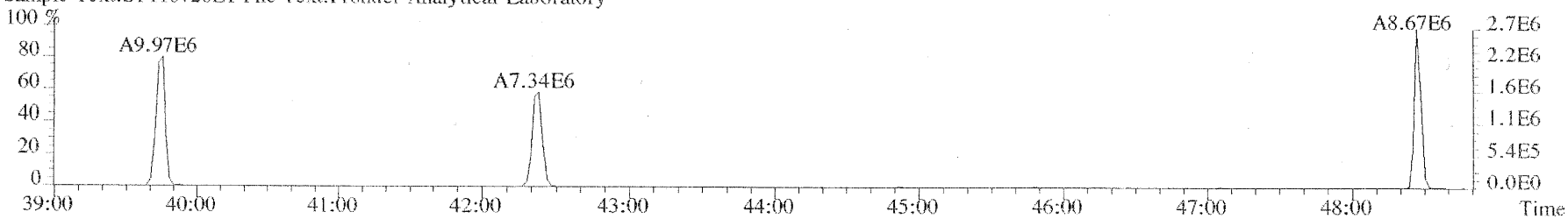
File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 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:ST110720Z1 File Text:Frontier Analytical Laboratory



File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 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:ST110720Z1 File Text:Frontier Analytical Laboratory



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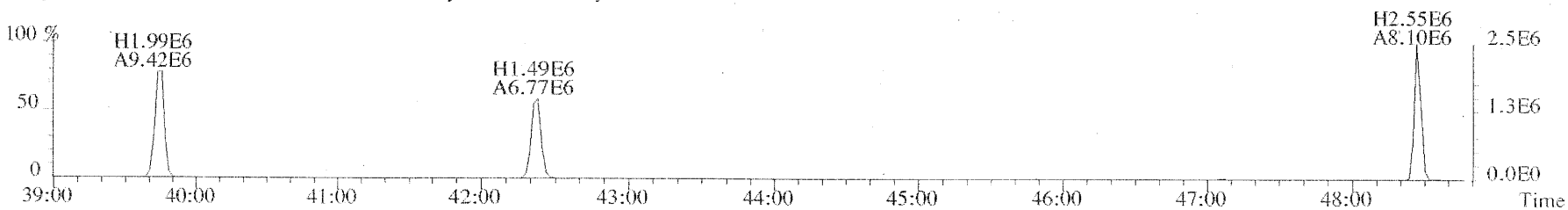
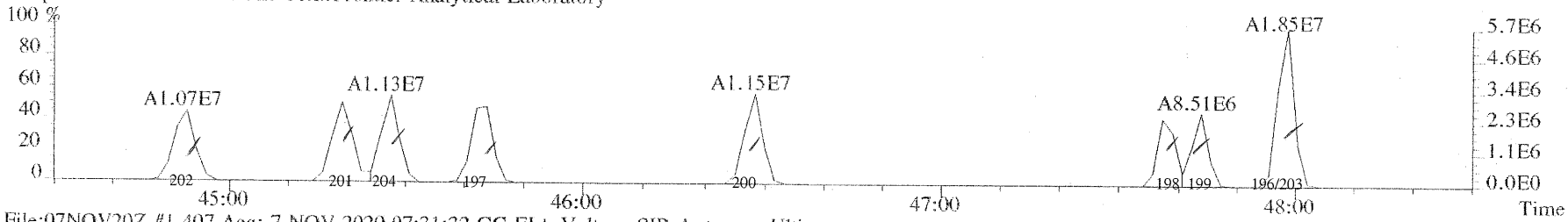
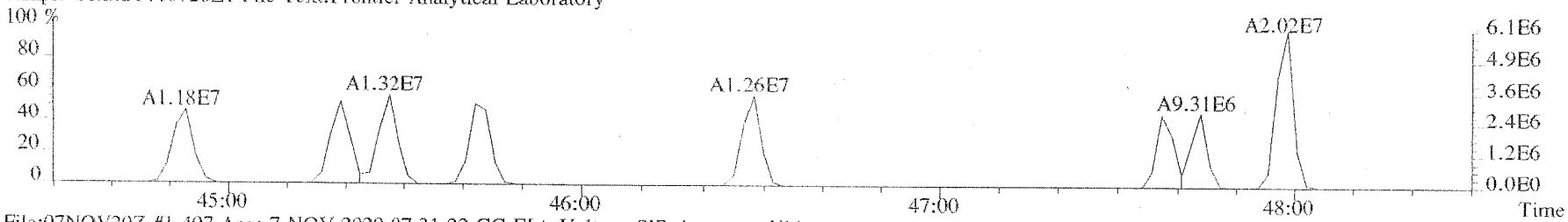
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



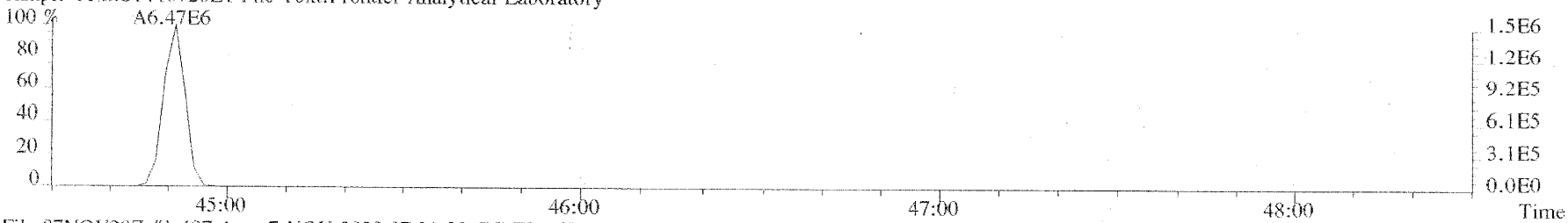
File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



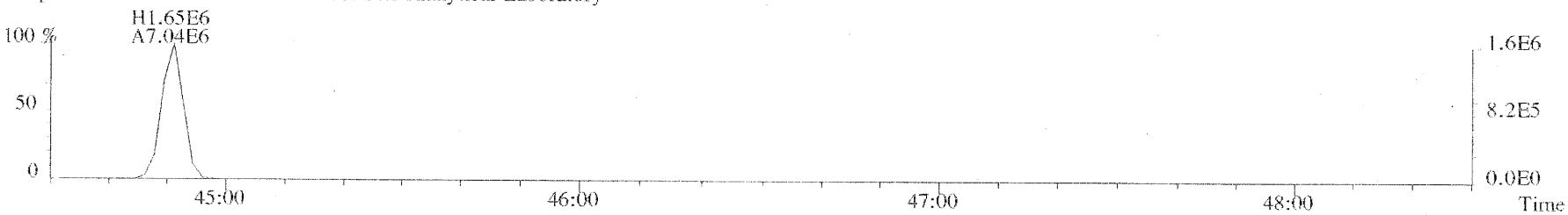
File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



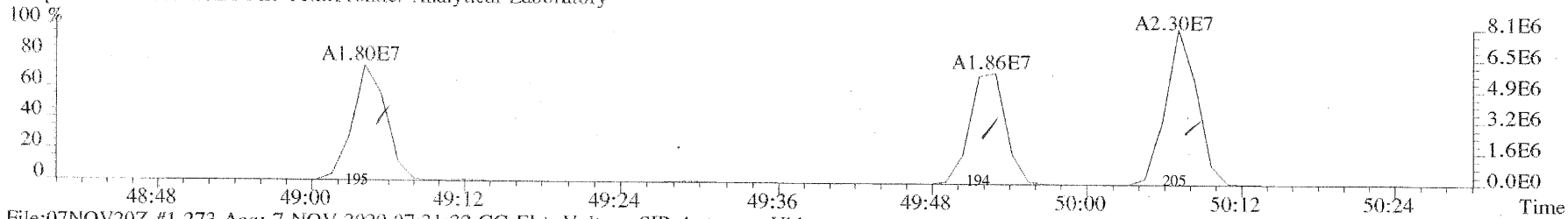
File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



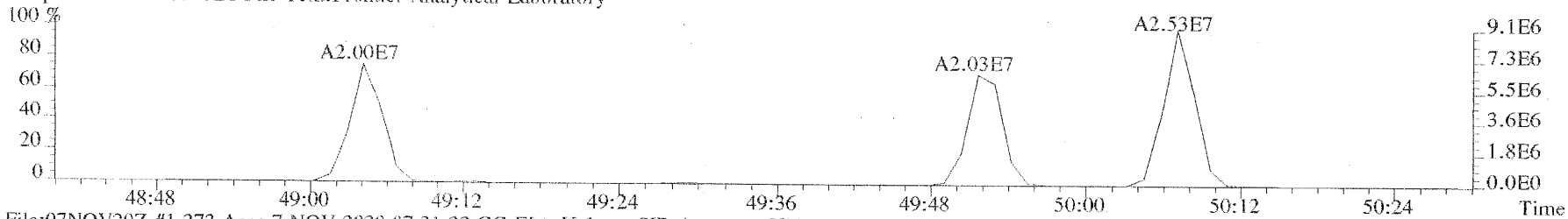
File:07NOV20Z #1-407 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



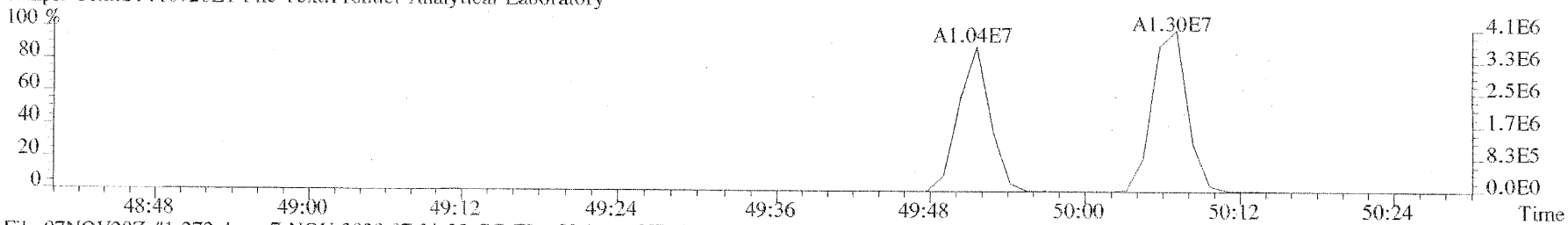
File:07NOV20Z #1-273 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



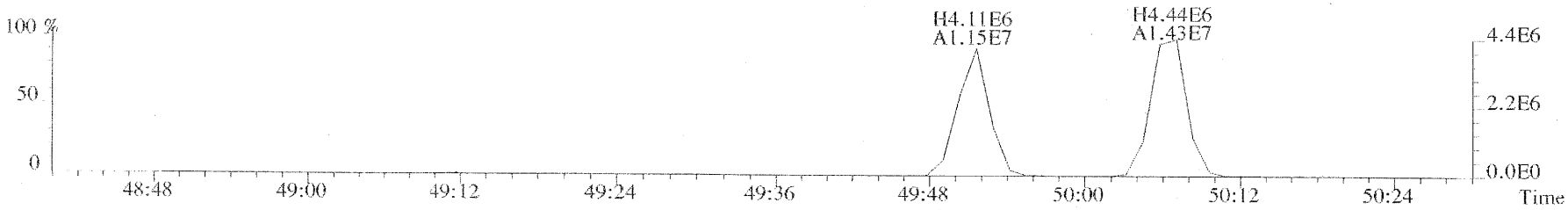
File:07NOV20Z #1-273 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



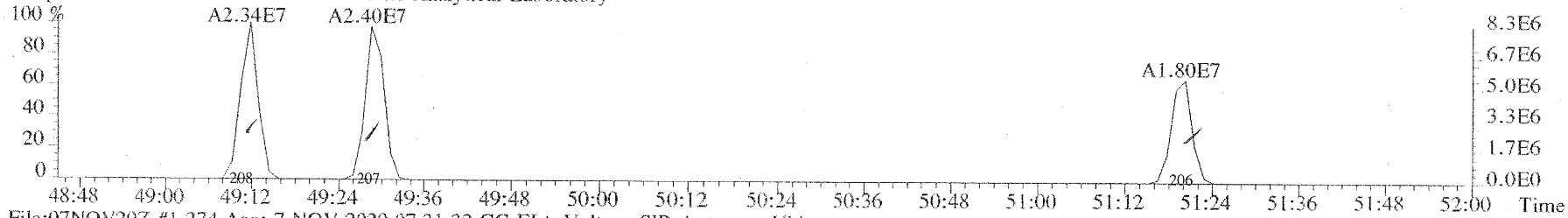
File:07NOV20Z #1-273 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



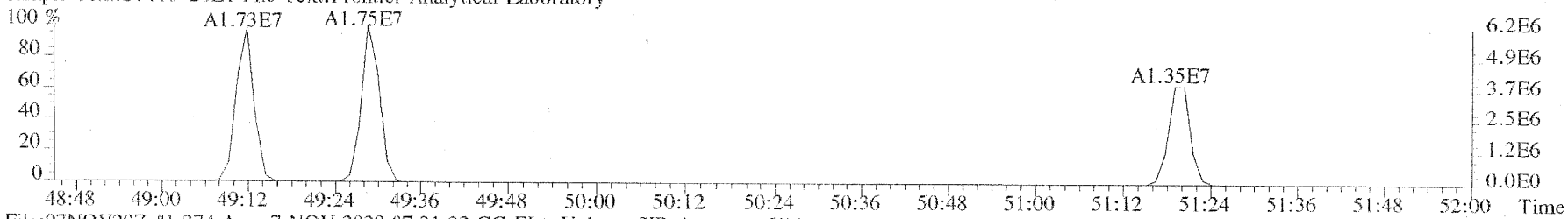
File:07NOV20Z #1-273 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



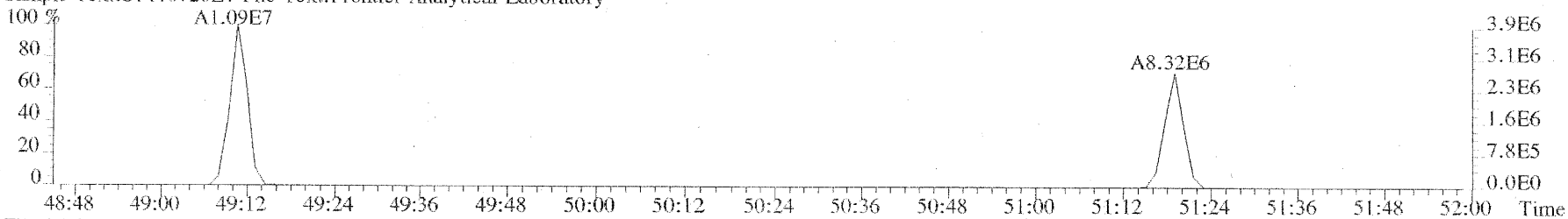
File:07NOV20Z #1-274 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



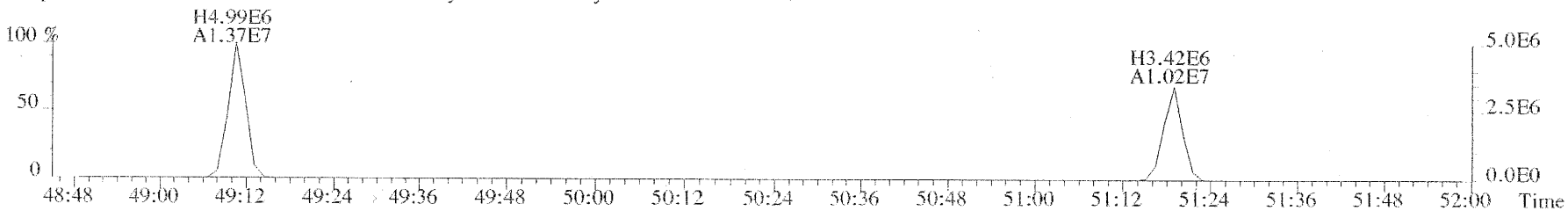
File:07NOV20Z #1-274 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



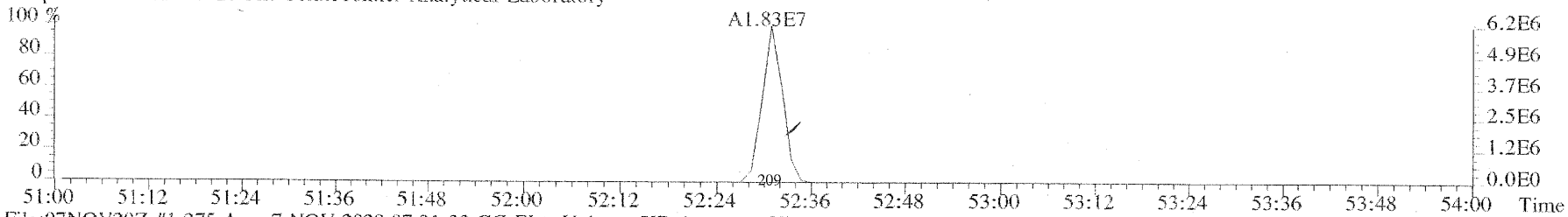
File:07NOV20Z #1-274 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



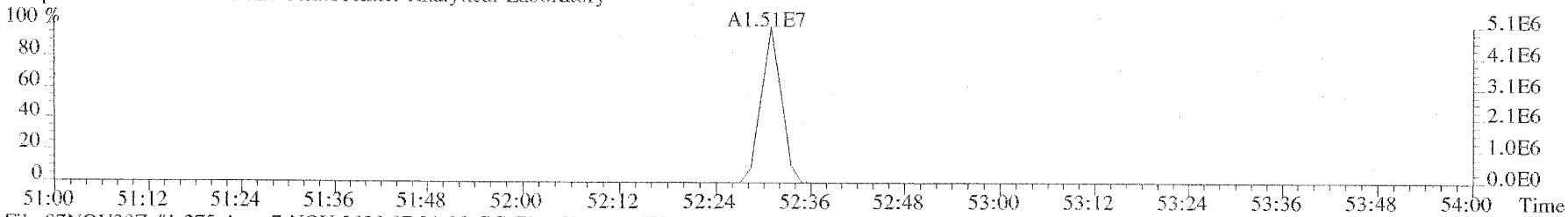
File:07NOV20Z #1-274 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



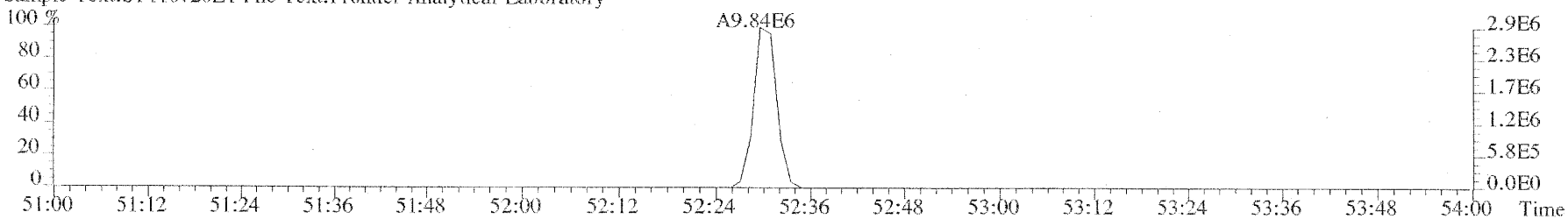
File:07NOV20Z #1-275 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



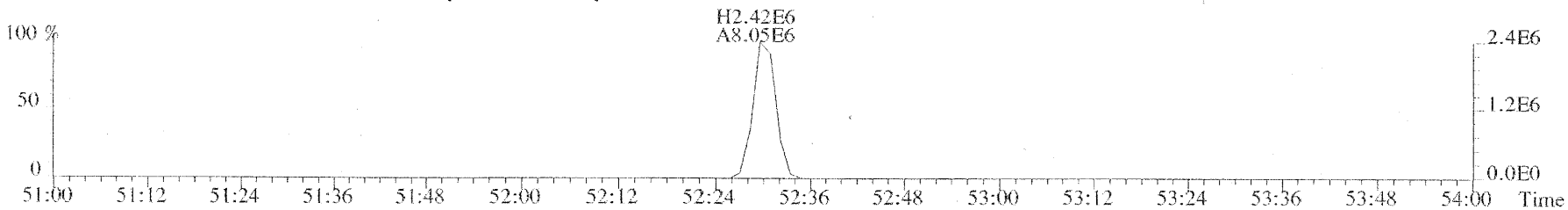
File:07NOV20Z #1-275 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory



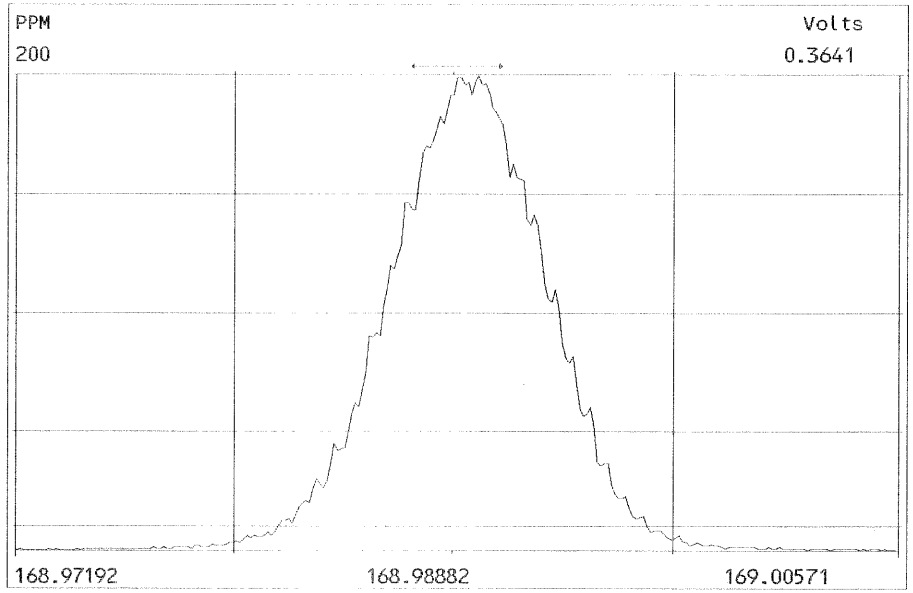
File:07NOV20Z #1-275 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory

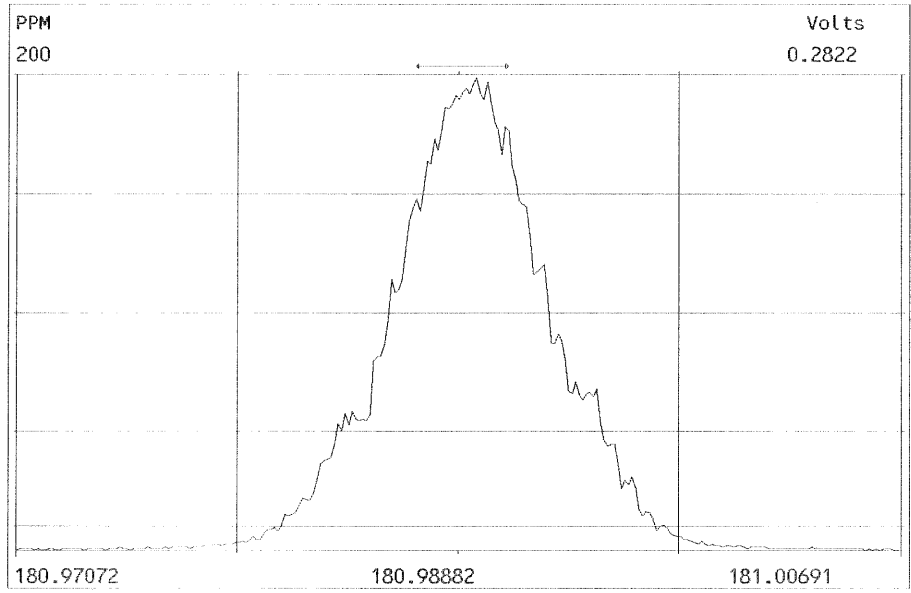


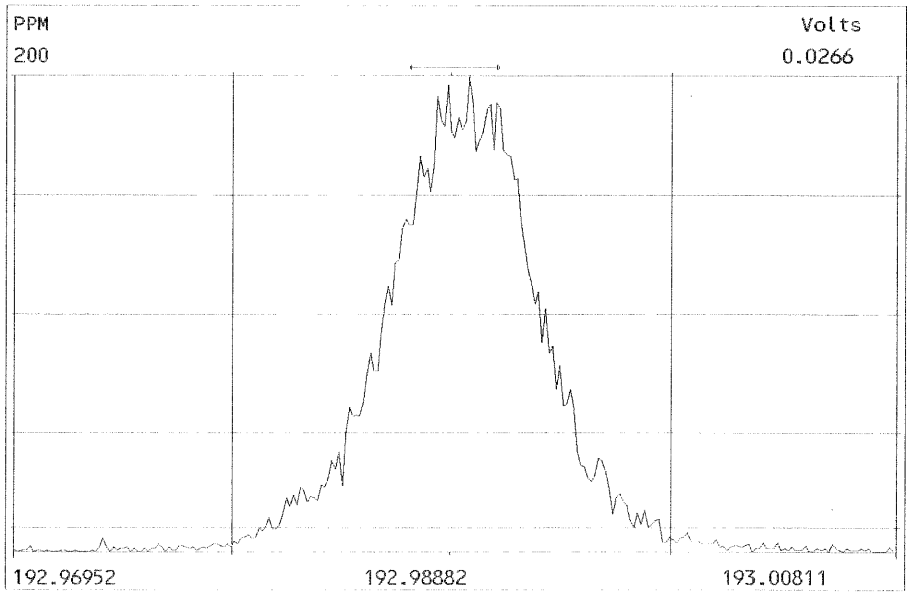
File:07NOV20Z #1-275 Acq: 7-NOV-2020 07:31:32 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z1 File Text:Frontier Analytical Laboratory

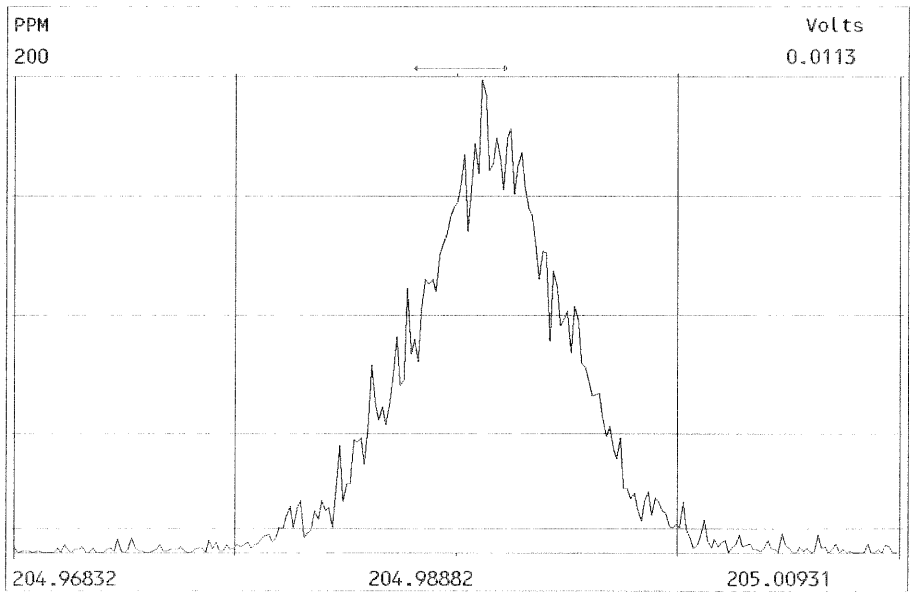


Peak Locate Examination: 7-NOV-2020:22:35 File:07NOV20Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

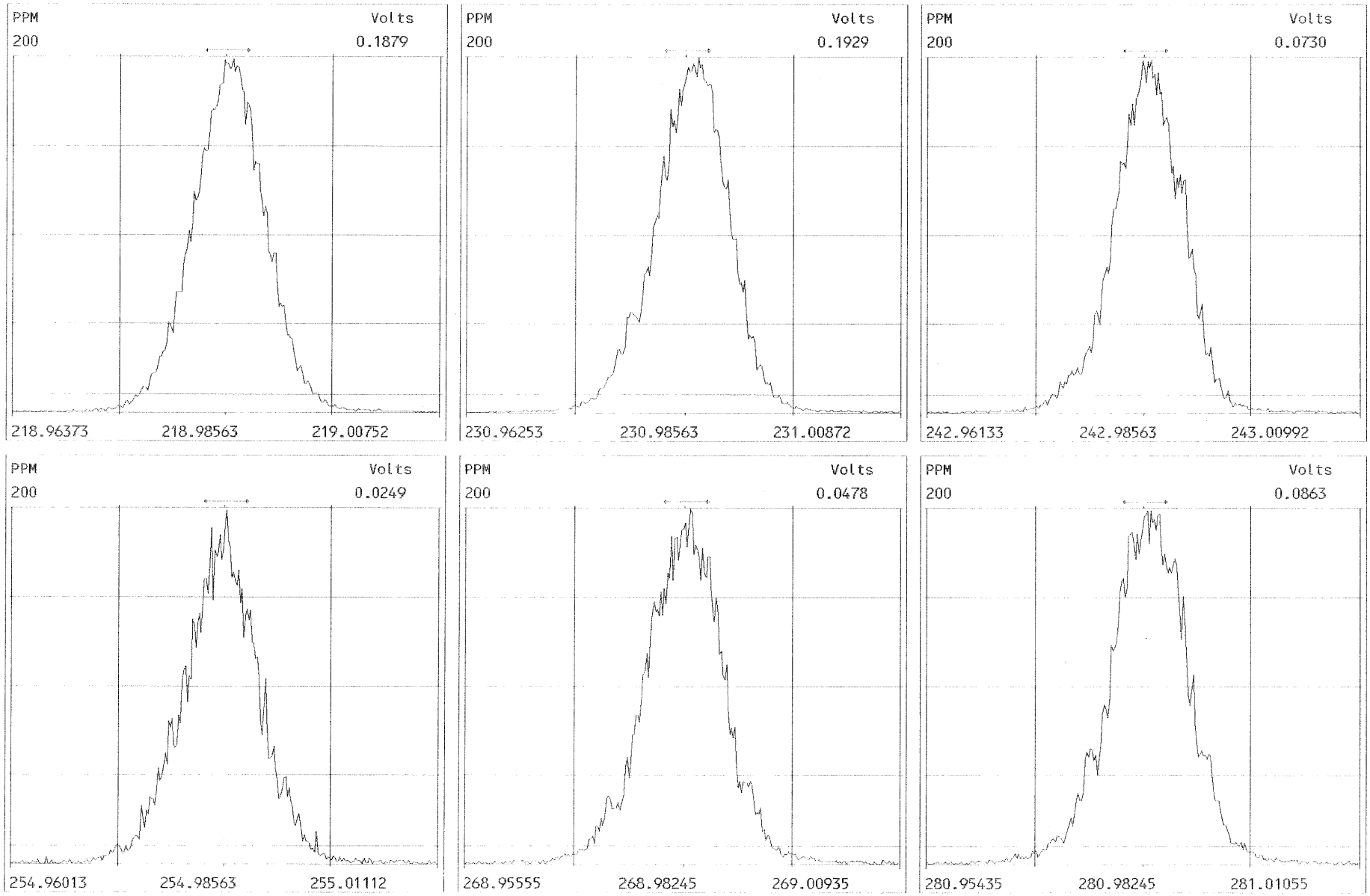




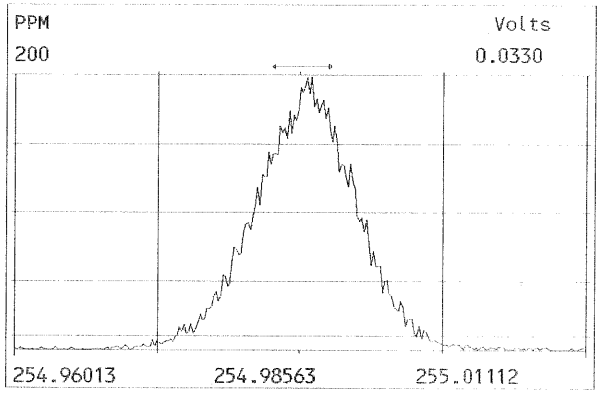


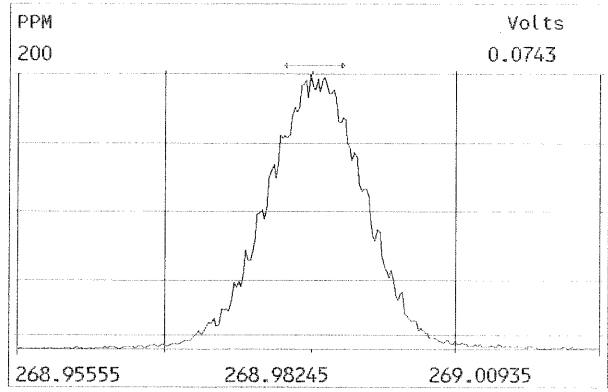


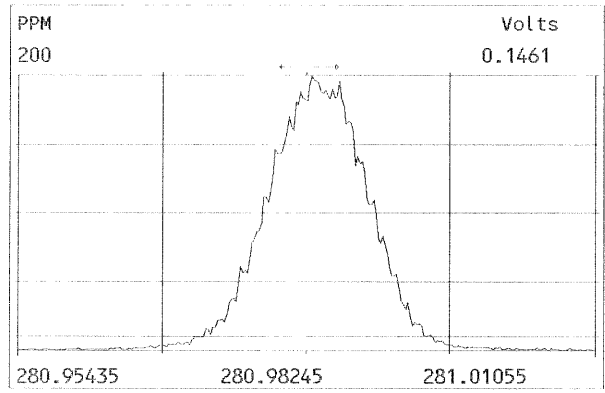
Peak Locate Examination: 7-NOV-2020:22:38 File:07NOV20Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

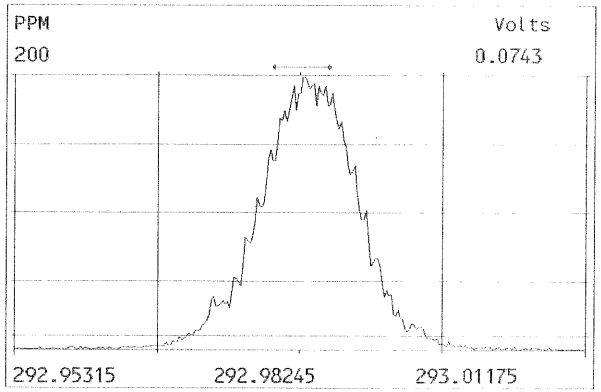


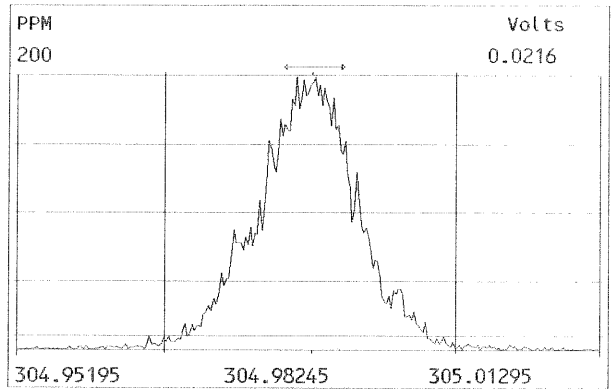
Peak Locate Examination: 7-NOV-2020:22:40 File:07NOV20Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

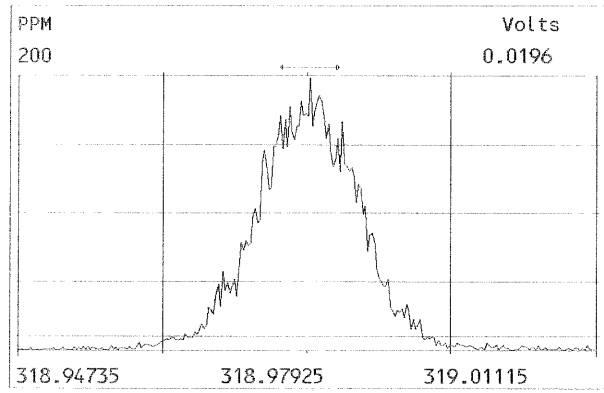


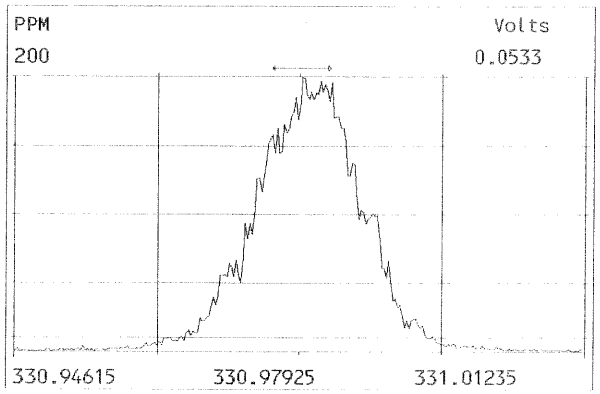


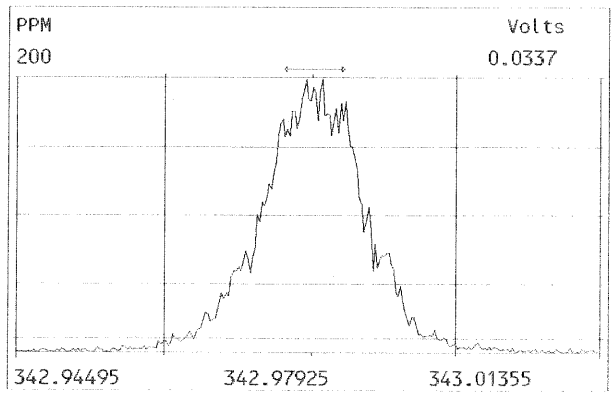




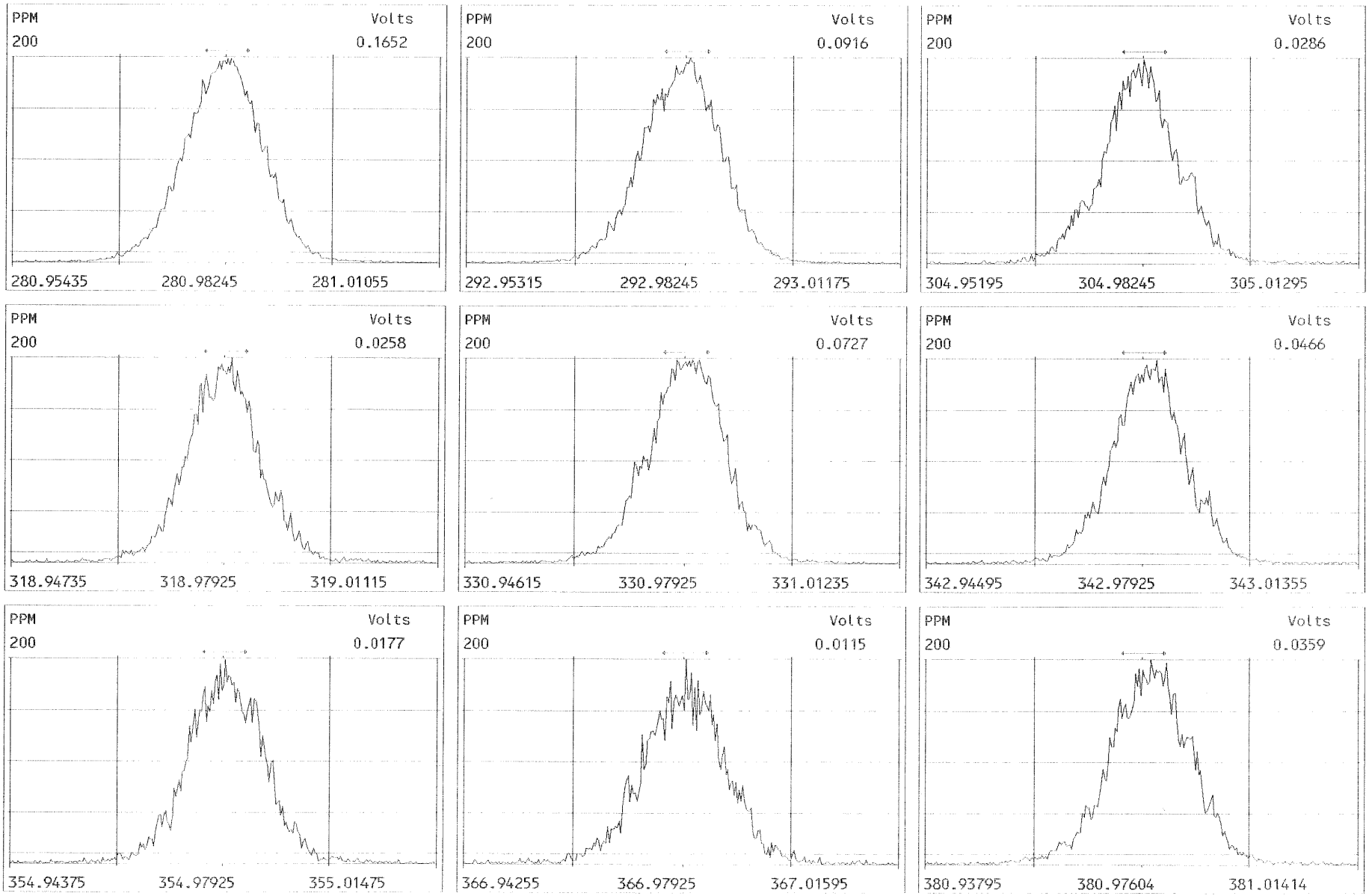




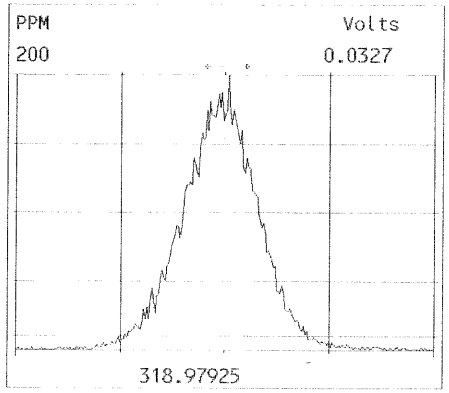


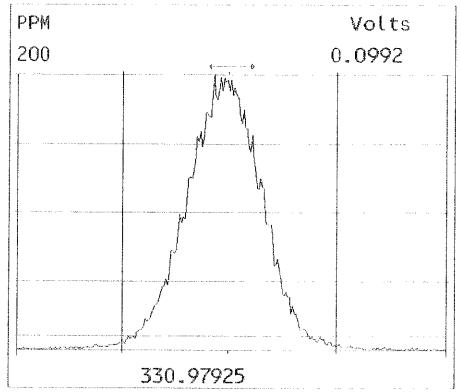


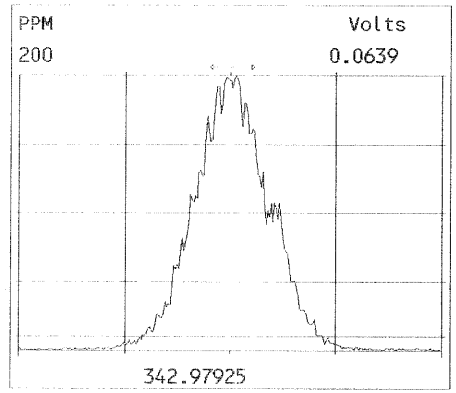
Peak Locate Examination: 7-NOV-2020:22:42 File:07NOV20Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

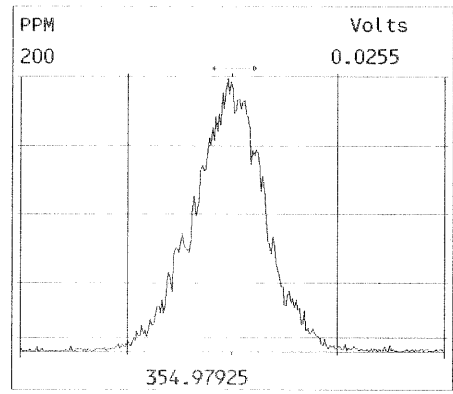


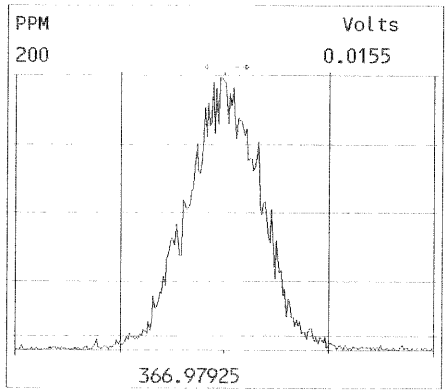
Peak Locate Examination: 7-NOV-2020:22:45 File:07NOV20Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

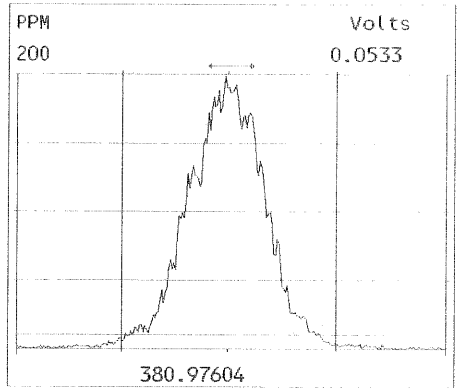


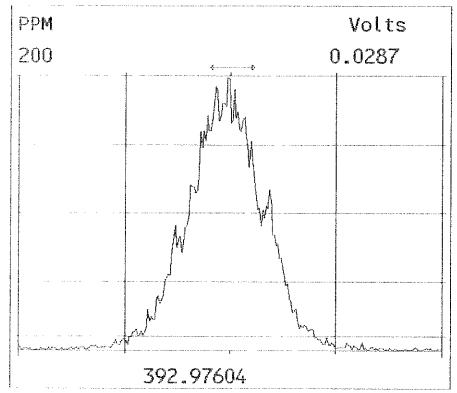


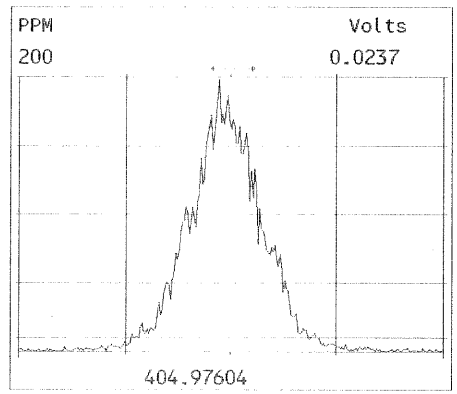


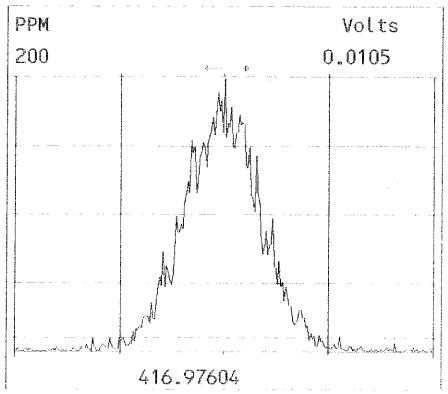


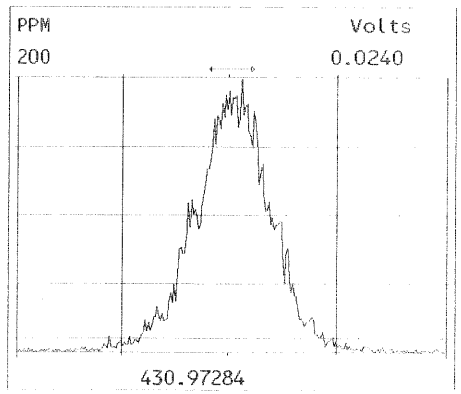


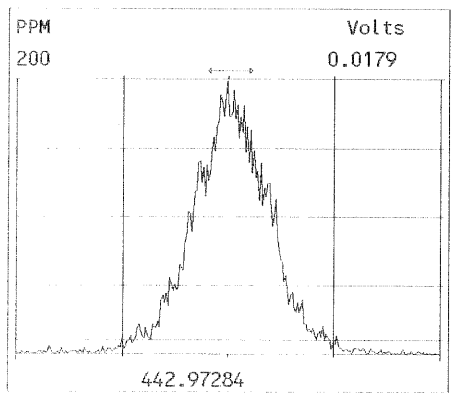






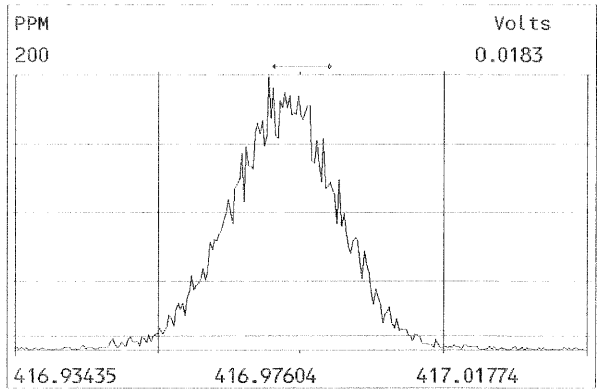


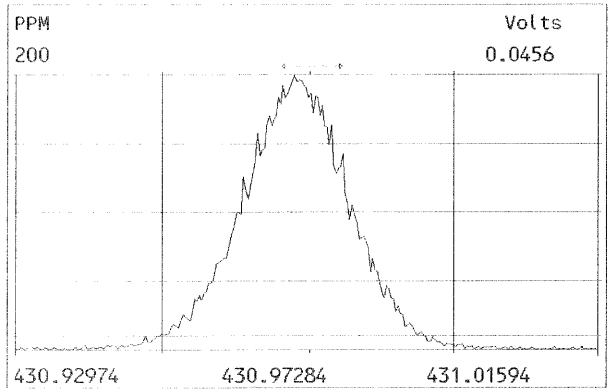


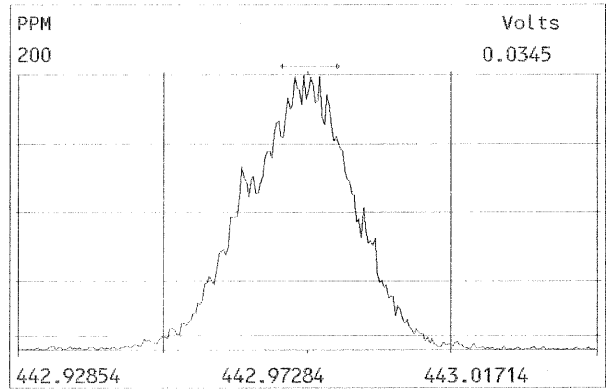


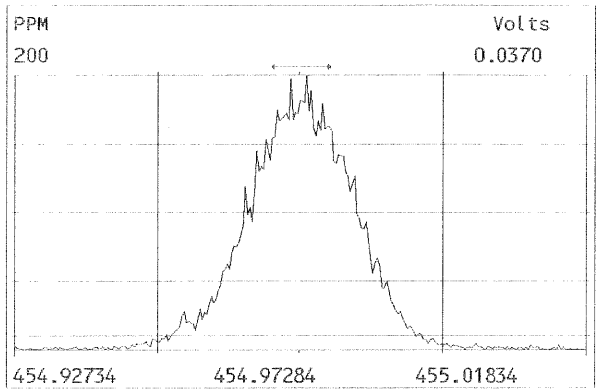
Peak Locate Examination: 7-NOV-2020:22:47 File:07NOV20Z_RES_CHECK

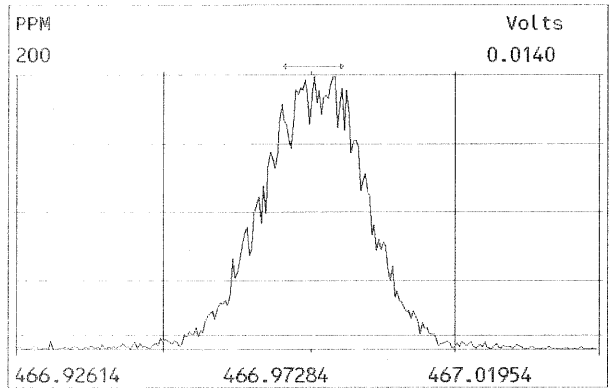
Experiment:1668PCB Function:6 Reference:PFK

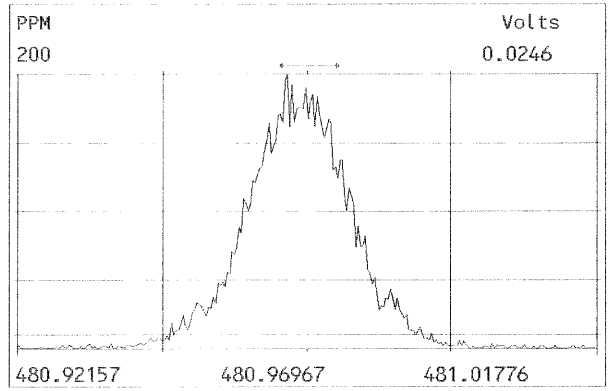


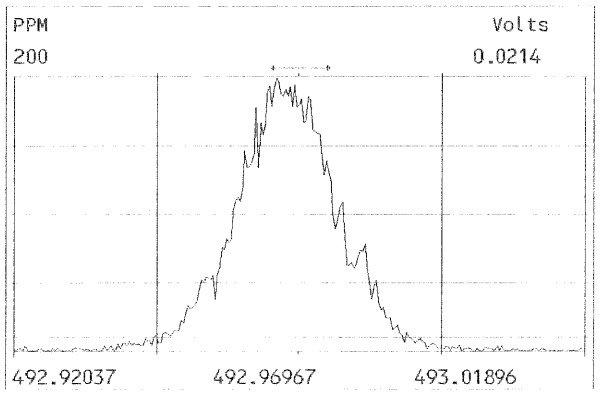


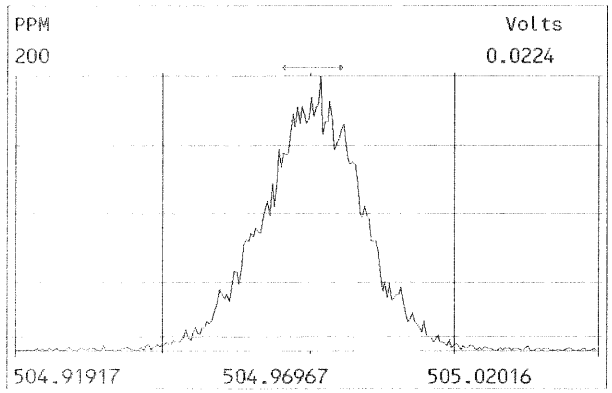


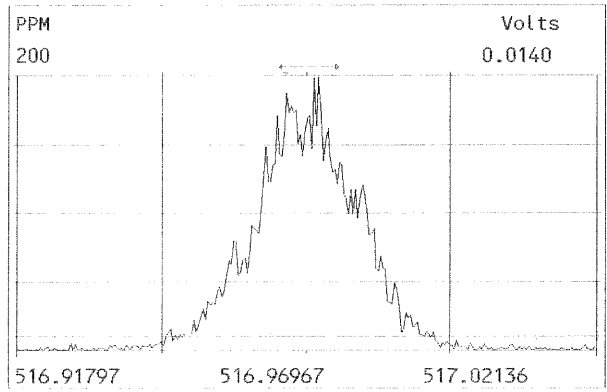












Frontier Analytical Laboratory

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/22/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 07NOV20Z Sam:15 Analysis Date: 7-NOV-20 21:08:28

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.24	2.66-3.60	y	58.2	37.5 - 62.5
PCB-3	M/M+2	3.23	2.66-3.60	y	59.4	37.5 - 62.5
PCB-4	M/M+2	1.49	1.33-1.79	y	53.9	37.5 - 62.5
PCB-15	M/M+2	1.53	1.33-1.79	y	61.7	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	1.13	0.88-1.20	y	57.3	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	115	37.5 - 62.5
PCB-77	M/M+2	0.85	0.65-0.89	y	104	37.5 - 62.5
PCB-81	M/M+2	0.82	0.65-0.89	y	116	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	110	37.5 - 62.5
PCB-105	M+2/M+4	1.64	1.32-1.78	y	122	37.5 - 62.5
PCB-114	M+2/M+4	1.63	1.32-1.78	y	121	37.5 - 62.5
PCB-118	M+2/M+4	1.62	1.32-1.78	y	224	37.5 - 62.5
PCB-123	M+2/M+4	1.62	1.32-1.78	y	101	37.5 - 62.5
PCB-126	M+2/M+4	1.63	1.32-1.78	y	120	37.5 - 62.5
PCB-155	M+2/M+4	1.29	1.05-1.43	y	107	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	116	37.5 - 62.5
PCB-157	M+2/M+4	1.28	1.05-1.43	y	119	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	113	37.5 - 62.5
PCB-169	M+2/M+4	1.25	1.05-1.43	y	111	37.5 - 62.5
PCB-188	M+2/M+4	1.08	0.89-1.21	y	111	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	110	37.5 - 62.5
PCB-202	M+2/M+4	0.93	0.76-1.02	y	163	37.5 - 62.5
PCB-205	M+2/M+4	0.92	0.76-1.02	y	160	37.5 - 62.5
PCB-206	M+4/M+6	1.32	1.13-1.53	y	160	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	163	37.5 - 62.5
PCB-209	M+4/M+6	1.21	0.99-1.33	y	165	37.5 - 62.5

Analyst: [illegible] Date: 11/9/20

Frontier Analytical Laboratory

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Initial Calibration Date: 7/22/20

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 07NOV20Z Sam:15 Analysis Date: 7-NOV-20 21:08:28

	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	78.0	50.0 - 145
13C-PCB-3	M/M+2	3.30	2.66-3.60	y	71.2	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	98.7	50.0 - 145
13C-PCB-15	M/M+2	1.63	1.33-1.79	y	86.6	50.0 - 145
13C-PCB-19	M/M+2	1.12	0.88-1.20	y	72.2	50.0 - 145
13C-PCB-37	M/M+2	1.04	0.88-1.20	y	96.1	50.0 - 145
13C-PCB-54	M/M+2	0.82	0.65-0.89	y	104	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	110	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	108	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	85.7	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	99.1	50.0 - 145
13C-PCB-114	M+2/M+4	1.64	1.32-1.78	y	97.2	50.0 - 145
13C-PCB-118	M+2/M+4	1.59	1.32-1.78	y	101	50.0 - 145
13C-PCB-123	M+2/M+4	1.59	1.32-1.78	y	100	50.0 - 145
13C-PCB-126	M+2/M+4	1.59	1.32-1.78	y	96.9	50.0 - 145
13C-PCB-155	M+2/M+4	1.30	1.05-1.43	y	88.7	50.0 - 145
13C-PCB-156	M+2/M+4	1.29	1.05-1.43	y	91.8	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	93.7	50.0 - 145
13C-PCB-167	M+2/M+4	1.29	1.05-1.43	y	90.4	50.0 - 145
13C-PCB-169	M+2/M+4	1.29	1.05-1.43	y	90.7	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	79.5	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	83.0	50.0 - 145
13C-PCB-202	M+2/M+4	0.88	0.76-1.02	y	61.7	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	96.7	50.0 - 145
13C-PCB-206	M+2/M+4	0.80	0.65-0.89	y	90.6	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	86.7	50.0 - 145
13C-PCB-209	M+4/M+6	1.23	0.99-1.33	y	76.5	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.02	0.88-1.20	y	117	65.0 - 135
13C-PCB-111	M+2/M+4	1.63	1.32-1.78	y	101	75.0 - 125
13C-PCB-178	M+2/M+4	1.07	0.89-1.21	y	86.9	75.0 - 125

Analyst: [signature] Date: 11/9/20

FAL ID: ST11072022 Filename: 07NOV20Z Sam:15 Acquired: 7-NOV-20 21:08:28 ICal: 1668PCBFAL4-7-22-20
Client ID: CS209 200406A ConCal: ST11072021 EndCal: ST11072022
Results: 07NOV20Z GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.04e+07	3.24 y	14:32	1.21	58.2		2.50	-	-	*	-
13C-PCB-1	4.30e+07	3.21 y	14:31	0.90	78.0		2.50				78.0
PCB-3	2.97e+07	3.23 y	16:57	1.23	59.4		2.50	-	-	*	-
13C-PCB-3	4.07e+07	3.30 y	16:56	0.93	71.2		2.50				71.2
PCB-4	2.46e+07	1.49 y	18:12	1.14	53.9		2.50	-	-	*	-
13C-PCB-4	3.99e+07	1.60 y	18:11	0.66	98.7		2.50				98.7
PCB-15	3.89e+07	1.53 y	23:43	1.09	61.7		2.50	-	-	*	-
13C-PCB-15	5.77e+07	1.63 y	23:41	1.09	86.6		2.50				86.6
PCB-19	1.48e+07	1.07 y	22:05	1.21	54.7		2.50	-	-	*	-
13C-PCB-19	2.24e+07	1.12 y	22:03	0.50	72.2		2.50				72.2
13C-PCB-9	6.14e+07	1.61 y	19:51	-	60.2		2.50				
PCB-37	2.67e+07	1.13 y	30:21	1.14	57.3		2.50	-	-	*	-
13C-PCB-37	4.07e+07	1.04 y	30:20	1.64	96.1		2.50				96.1
PCB-54	4.63e+07	0.78 y	25:37	1.18	115		2.50	-	-	*	-
13C-PCB-54	3.40e+07	0.82 y	25:35	1.26	104		2.50				104
PCB-104	2.77e+07	1.57 y	30:02	1.12	110		2.50	-	-	*	-
13C-PCB-104	2.26e+07	1.60 y	30:01	1.02	85.7		2.50				85.7
13C-PCB-28	5.25e+07	1.02 y	26:40	1.73	117		2.50				117
13C-PCB-52	2.59e+07	0.80 y	28:55	-	48.7		2.50				
PCB-81	5.38e+07	0.82 y	36:07	1.13	116		2.50	-	-	*	-
13C-PCB-81	4.11e+07	0.79 y	36:06	1.57	108		2.50				108
PCB-77	4.93e+07	0.85 y	36:41	1.10	104		2.50	-	-	*	-
13C-PCB-77	4.29e+07	0.80 y	36:39	1.61	110		2.50				110
PCB-155	2.87e+07	1.29 y	34:12	1.13	107		2.50	-	-	*	-
13C-PCB-155	2.36e+07	1.30 y	34:11	1.10	88.7		2.50				88.7
13C-PCB-111	3.09e+07	1.63 y	36:15	1.27	101		2.50				101
13C-PCB-101	2.41e+07	1.64 y	34:36	-	50.7		2.50				
PCB-123	3.93e+07	1.62 y	38:19	1.11	101		2.50	-	-	*	-
13C-PCB-123	3.50e+07	1.59 y	38:18	1.28	100		2.50				100
PCB-118	9.35e+07	1.62 y	38:29	1.12	224		2.50	-	-	*	-
13C-PCB-118	3.72e+07	1.59 y	38:28	1.35	101		2.50				101
PCB-114	4.67e+07	1.63 y	39:05	1.13	121		2.50	-	-	*	-
13C-PCB-114	3.42e+07	1.64 y	39:05	1.29	97.2		2.50				97.2
PCB-105	4.64e+07	1.64 y	39:55	1.10	122		2.50	-	-	*	-
13C-PCB-105	3.45e+07	1.61 y	39:53	1.28	99.1		2.50				99.1
PCB-126	4.21e+07	1.63 y	42:02	1.08	120		2.50	-	-	*	-
13C-PCB-126	3.24e+07	1.59 y	42:02	1.23	96.9		2.50				96.9
PCB-167	3.78e+07	1.26 y	43:24	1.11	113		2.50	-	-	*	-
13C-PCB-167	3.02e+07	1.29 y	43:22	1.23	90.4		2.50				90.4
PCB-156	3.88e+07	1.25 y	44:38	1.13	116		2.50	-	-	*	-
13C-PCB-156	2.97e+07	1.29 y	44:36	1.19	91.8		2.50				91.8
PCB-157	3.99e+07	1.28 y	44:53	1.08	119		2.50	-	-	*	-
13C-PCB-157	3.09e+07	1.30 y	44:51	1.21	93.7		2.50				93.7
PCB-169	3.46e+07	1.25 y	46:45	1.08	111		2.50	-	-	*	-
13C-PCB-169	2.89e+07	1.29 y	46:43	1.17	90.7		2.50				90.7
PCB-188	2.97e+07	1.08 y	39:42	1.10	111		2.50	-	-	*	-
13C-PCB-188	2.44e+07	1.08 y	39:40	1.13	79.5		2.50				79.5
PCB-189	2.57e+07	1.06 y	48:25	1.07	110		2.50	-	-	*	-
13C-PCB-189	2.18e+07	1.08 y	48:25	0.97	83.0		2.50				83.0
PCB-202	2.69e+07	0.93 y	44:48	1.03	163		2.50	-	-	*	-
13C-PCB-202	1.60e+07	0.88 y	44:46	0.96	61.7		2.50				61.7
13C-PCB-178	1.83e+07	1.07 y	42:18	0.78	86.9		2.50				86.9
13C-PCB-138	2.72e+07	1.31 y	41:32	-	56.5		2.50				

FAL ID: ST110720Z2 Filename: 07NOV20Z Sam:15 Acquired: 7-NOV-20 21:08:28 ICal: 1668PCBFAL4-7-22-20
Client ID: CS209 200406A ConCal: ST110720Z1 EndCal: ST110720Z2
Results: 07NOV20Z GC Column: DB1MS Amount: 1.000

PCB-205	5.93e+07	0.92 y	50:05	1.09	160	2.50	-	-	*	-
13C-PCB-205	3.41e+07	0.90 y	50:05	1.32	96.7	2.50				96.7
PCB-208	5.24e+07	1.34 y	49:09	1.01	163	2.50	-	-	*	-
13C-PCB-208	3.20e+07	0.81 y	49:08	1.38	86.7	2.50				86.7
PCB-206	3.78e+07	1.32 y	51:16	1.04	160	2.50	-	-	*	-
13C-PCB-206	2.28e+07	0.80 y	51:16	0.94	90.6	2.50				90.6
PCB-209	4.22e+07	1.21 y	52:28	1.13	165	2.50	-	-	*	-
13C-PCB-209	2.26e+07	1.23 y	52:27	1.10	76.5	2.50				76.5
13C-PCB-194	2.68e+07	0.89 y	49:49	-	70.4	2.50				

Analyst: _____ Date: 11/9/20

Frontier Analytical Laboratory - Acquisition Log

Run Name:07NOV20Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

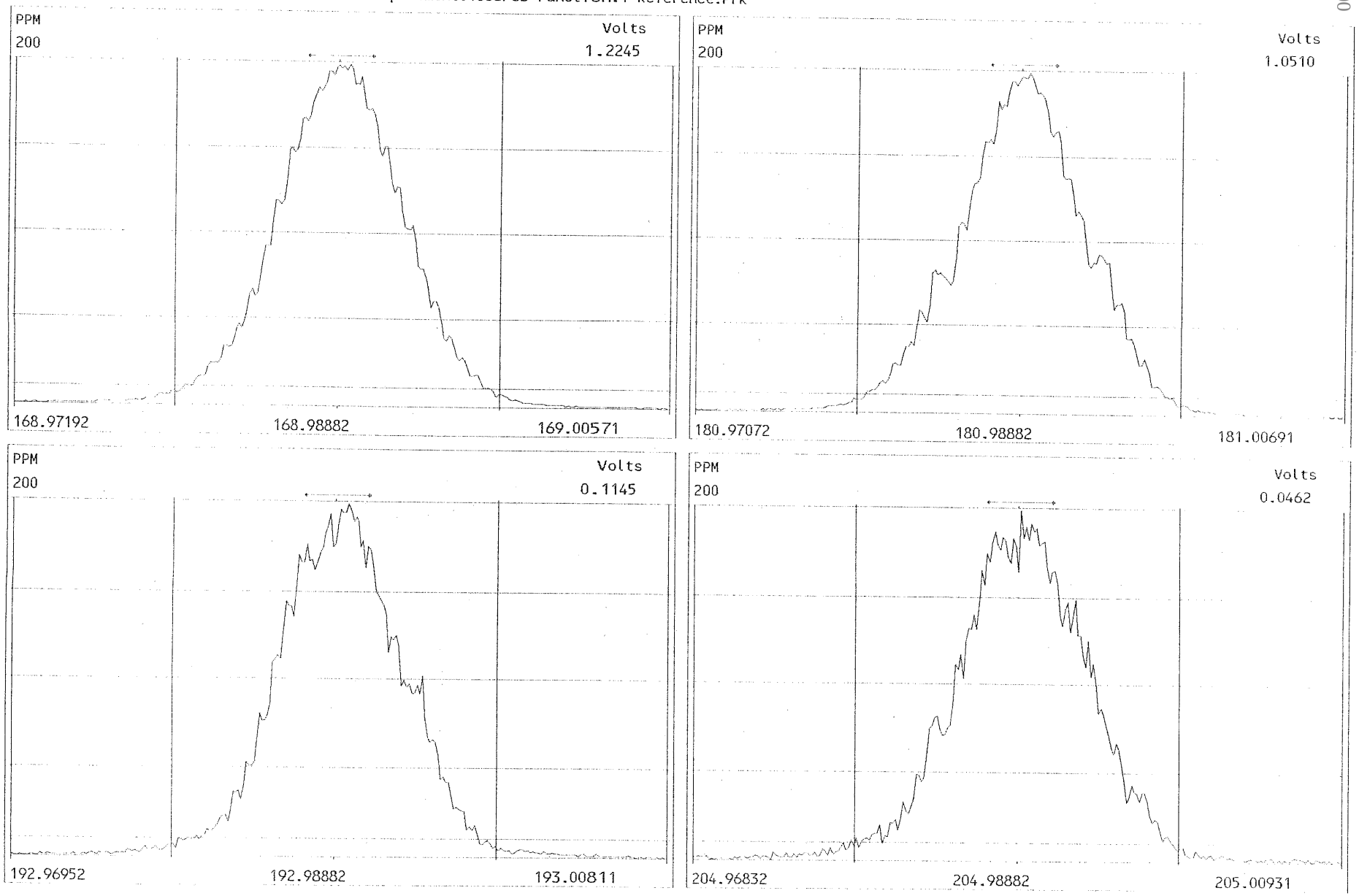
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
07NOV20Z	1	ST110720Z1	CS209 200406A	7-NOV-20 07:31:32	ST110720Z1	ST110720Z2	BS
07NOV20Z	2	05498-001-0001-OPR	OPR	7-NOV-20 08:29:52	ST110720Z1	ST110720Z2	BS
07NOV20Z	3	05498-001-0001-MB	Method Blank	7-NOV-20 09:28:13	ST110720Z1	ST110720Z2	BS
07NOV20Z	4	13378-007-0001-SA	LDW-Y3-LBS-SU-ENR-A-CLAM	7-NOV-20 10:26:34	ST110720Z1	ST110720Z2	BS
07NOV20Z	5	13378-014-0001-SA	LDW-Y3-LBS-SU-ENR-B-CLAM	7-NOV-20 11:24:55	ST110720Z1	ST110720Z2	BS
07NOV20Z	6	13378-021-0001-SA	LDW-Y3-LBS-SU-ENR-C-CLAM	7-NOV-20 12:23:16	ST110720Z1	ST110720Z2	BS
07NOV20Z	7	13379-007-0001-SA	LDW-Y3-LBS-SU-ENR+AC-A-CLAM	7-NOV-20 13:21:38	ST110720Z1	ST110720Z2	BS
07NOV20Z	8	13379-014-0001-SA	LDW-Y3-LBS-SU-ENR+AC-B-CLAM	7-NOV-20 14:19:59	ST110720Z1	ST110720Z2	BS
07NOV20Z	9	13379-021-0001-SA	LDW-Y3-LBS-SU-ENR+AC-C-CLAM	7-NOV-20 15:18:21	ST110720Z1	ST110720Z2	BS
07NOV20Z	10	13380-007-0001-SA	LDW-Y3-LBS-SU-ENR-A-WORM	7-NOV-20 16:16:42	ST110720Z1	ST110720Z2	BS
07NOV20Z	11	13380-014-0001-SA	LDW-Y3-LBS-SU-ENR-B-WORM	7-NOV-20 17:15:03	ST110720Z1	ST110720Z2	BS
07NOV20Z	12	SB110720Z1	Solvent Blank	7-NOV-20 18:13:25	ST110720Z1	ST110720Z2	BS
07NOV20Z	13	13371-012-0001-SA	LDW-Y3-IN-S010-TB	7-NOV-20 19:11:46	ST110720Z1	ST110720Z2	BS
07NOV20Z	14	SB110720Z2	Solvent Blank	7-NOV-20 20:10:07	ST110720Z1	ST110720Z2	BS
07NOV20Z	15	ST110720Z2	CS209 200406A	7-NOV-20 21:08:28	ST110720Z1	ST110720Z2	BS

8/11/20

Data Backed Up:_____

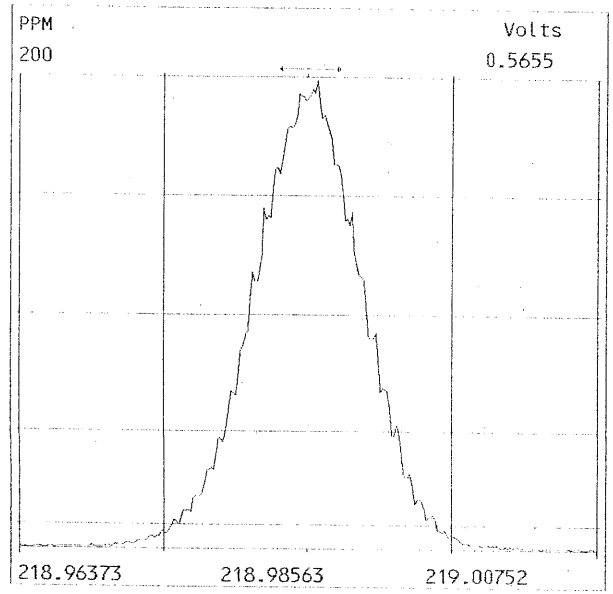
Date:_____

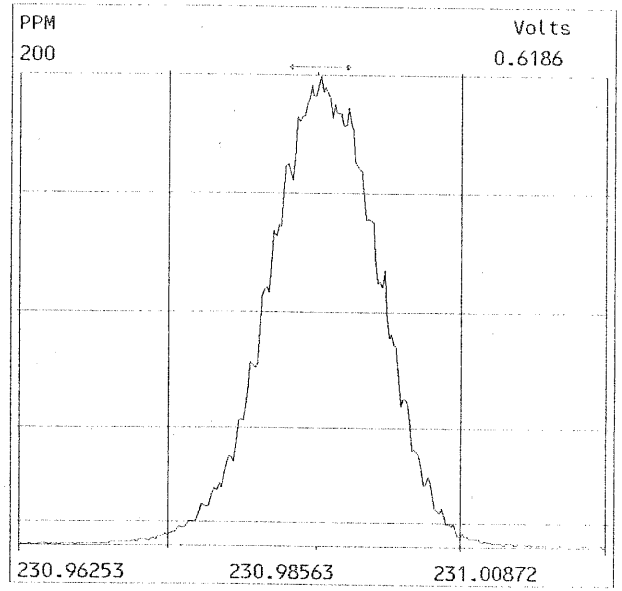
Peak Locate Examination: 7-NOV-2020:07:29 File:07NOV20Z
Experiment:1668PCB Function:1 Reference:PFK

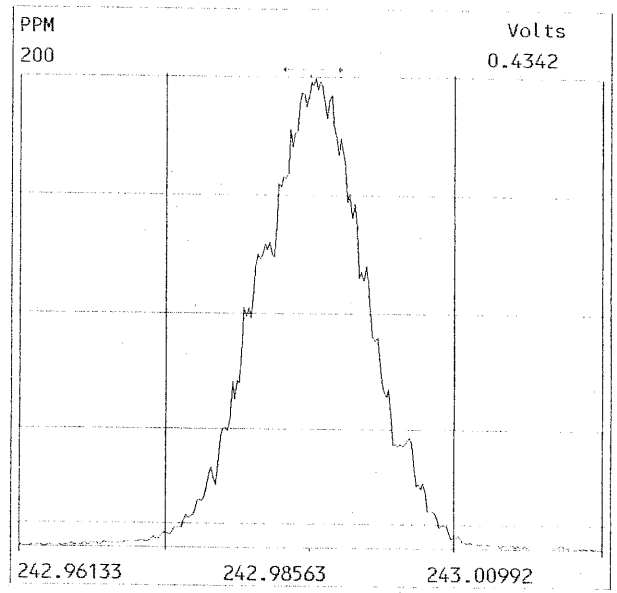


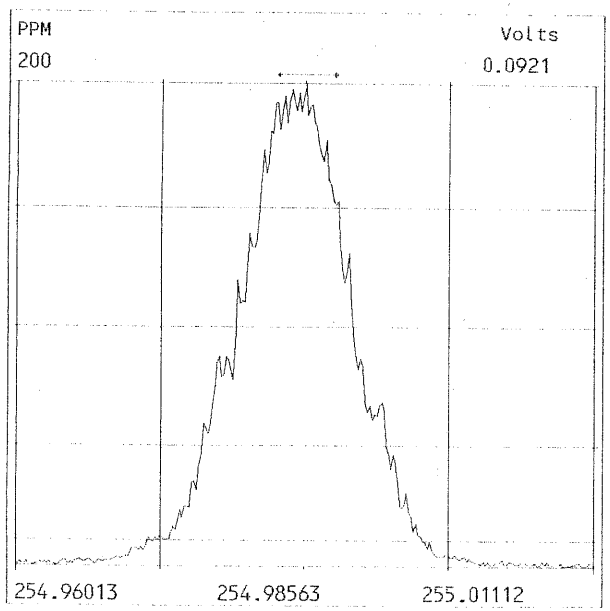
Peak Locate Examination: 7-NOV-2020:07:29 File:07NOV20Z

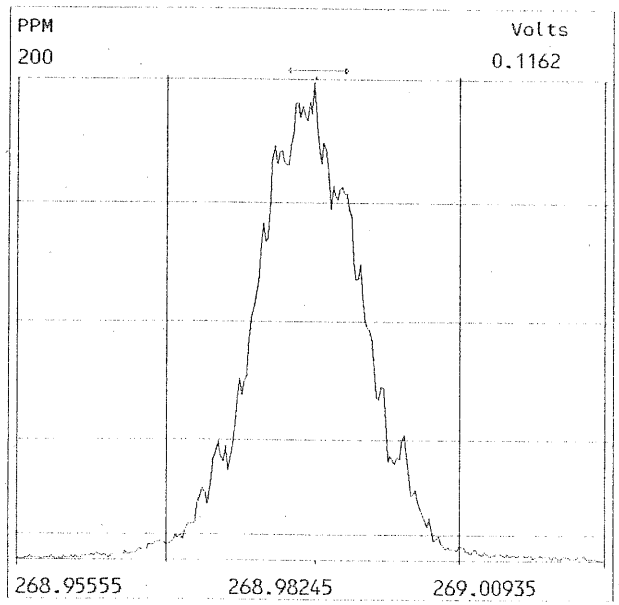
Experiment:1668PCB Function:2 Reference:PFK

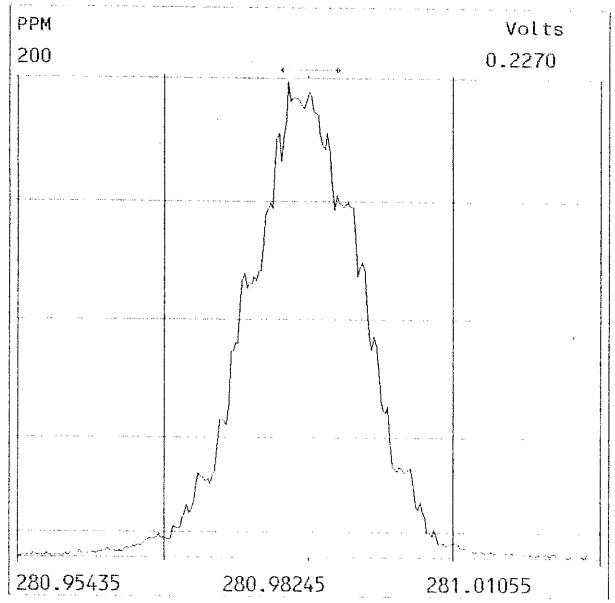






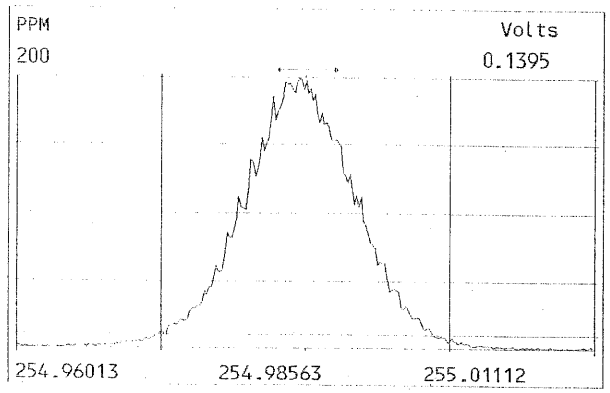


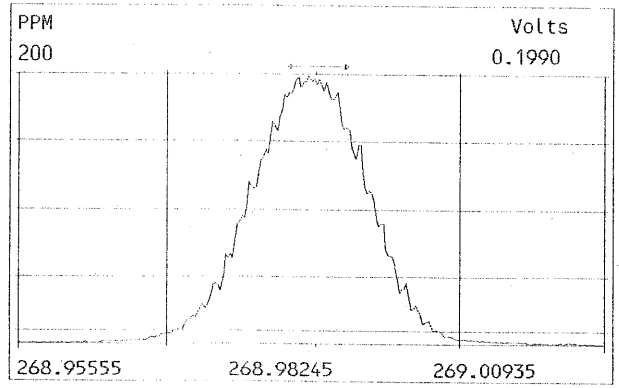


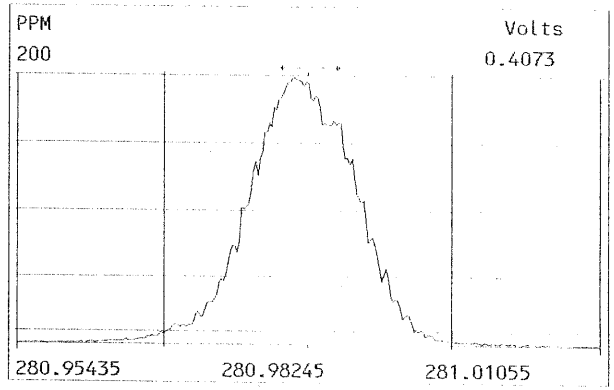


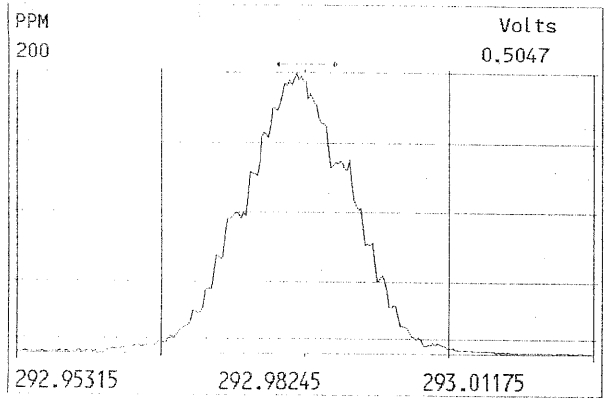
Peak Locate Examination: 7-NOV-2020:07:29 File:07NOV20Z

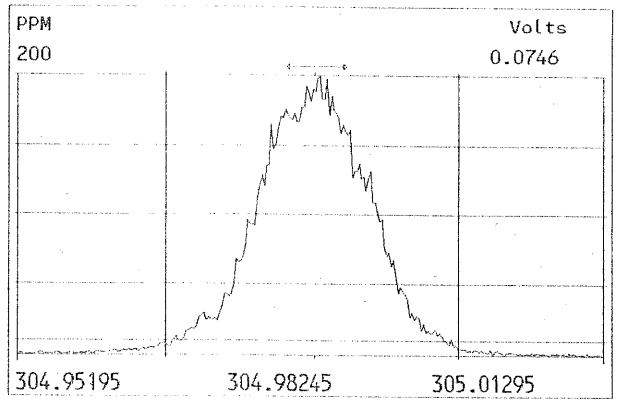
Experiment:1668PCB Function:3 Reference:PFK

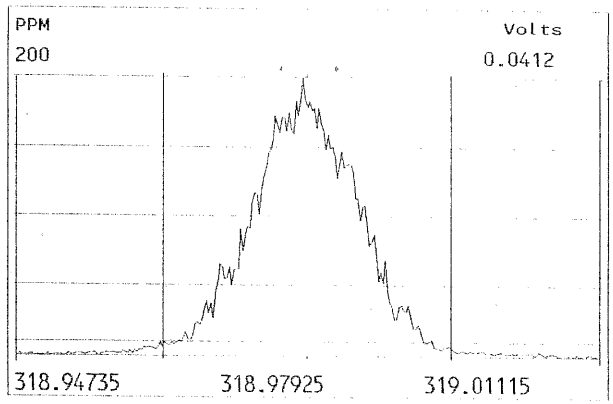


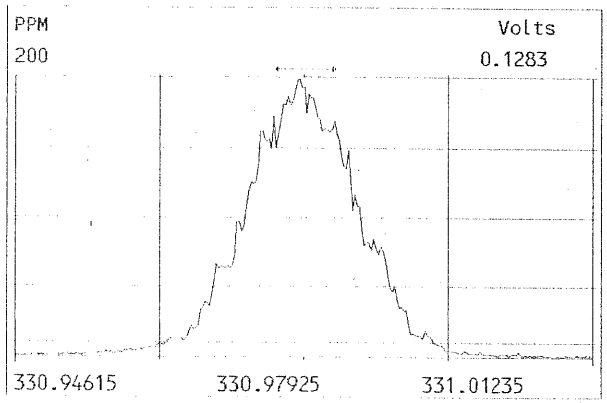


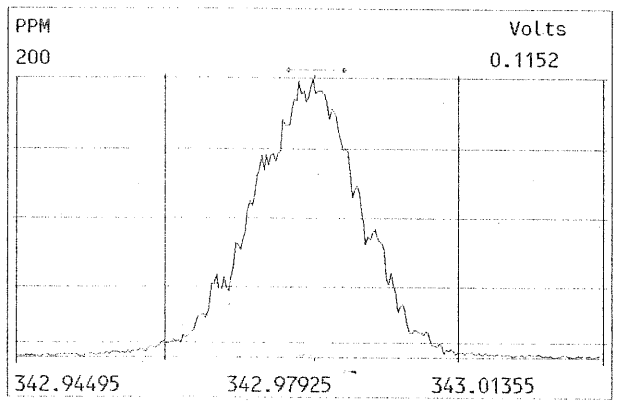






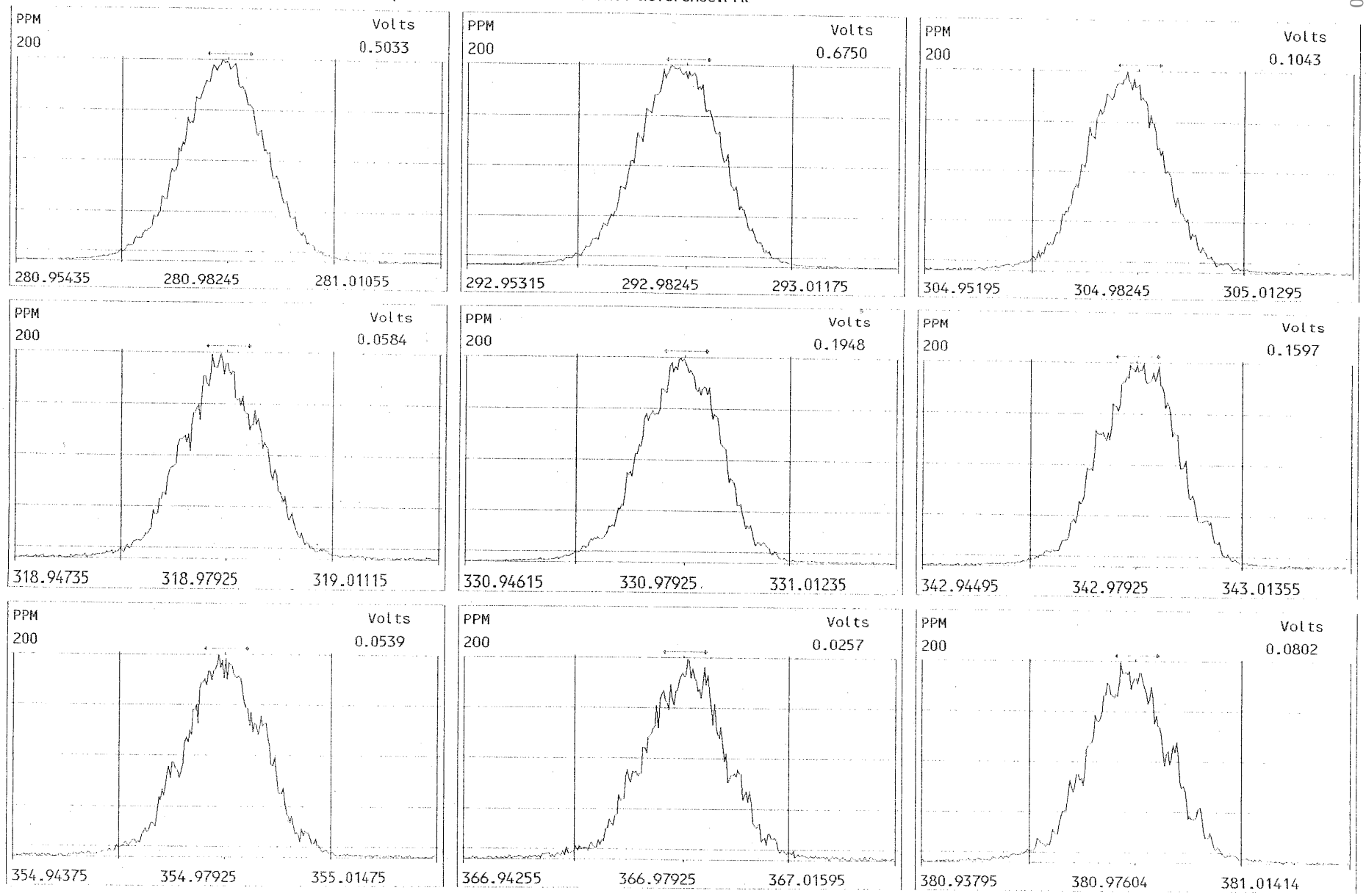






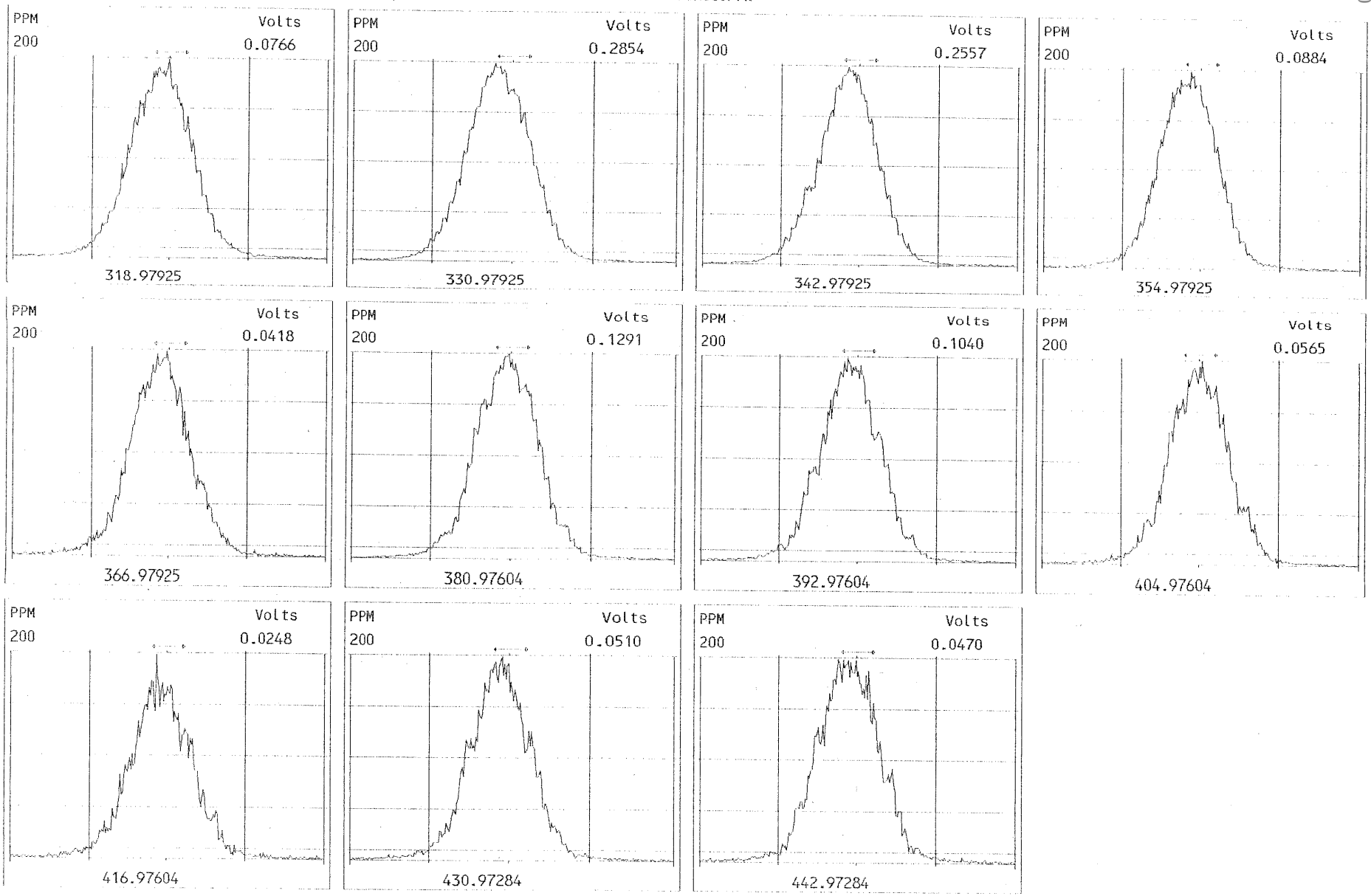
Peak Locate Examination: 7-NOV-2020:07:30 File:07NOV20Z

Experiment:1668PCB Function:4 Reference:PFK



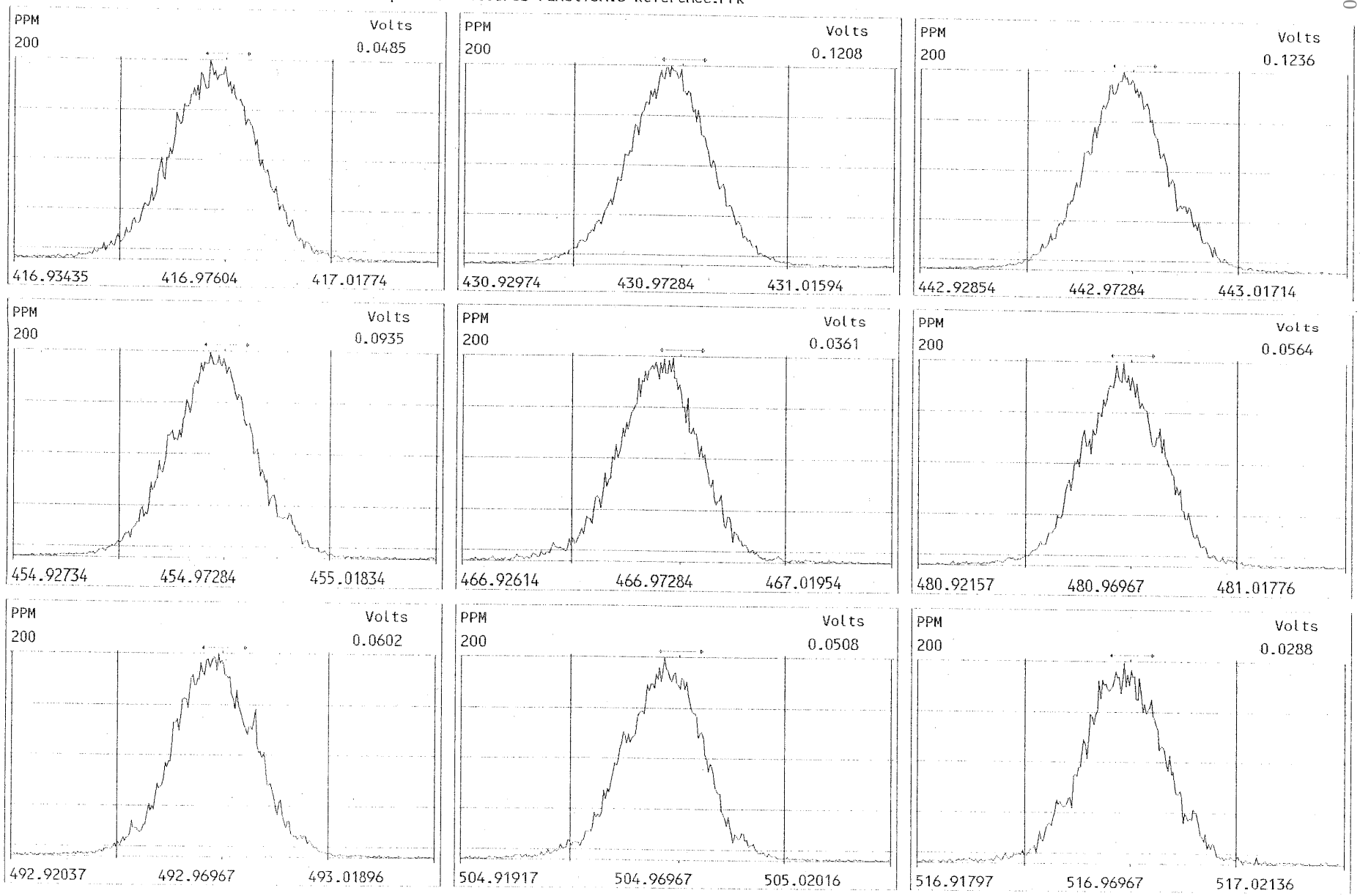
Peak Locate Examination: 7-NOV-2020:07:30 File:07NOV20Z

Experiment:1668PCB Function:5 Reference:PFK

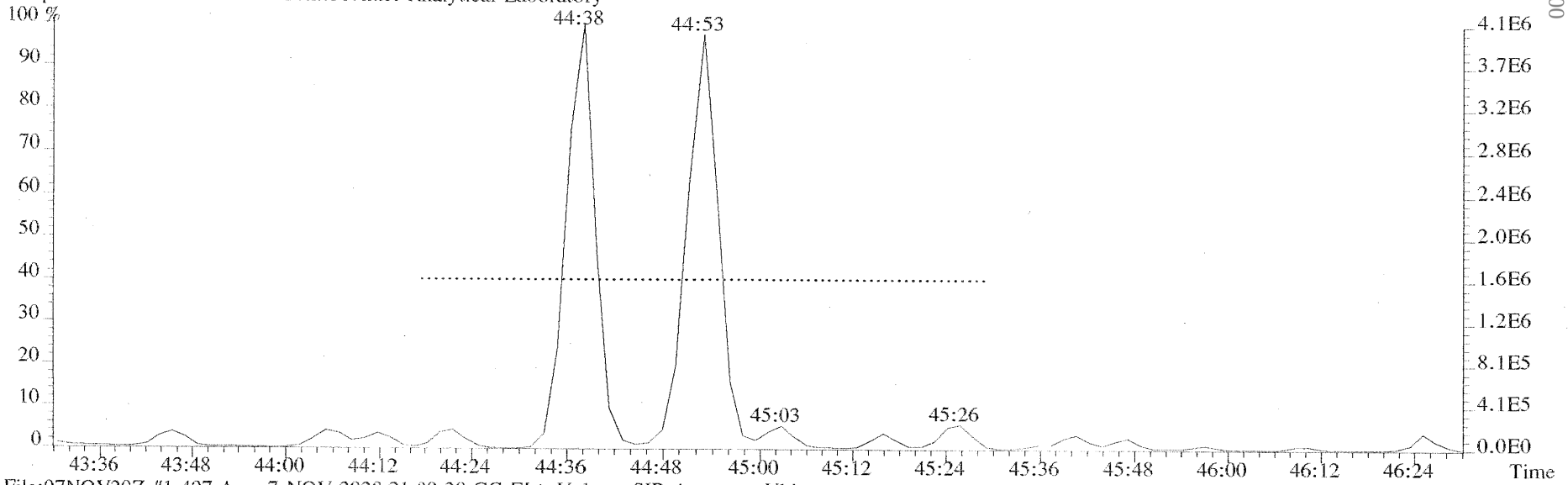


Peak Locate Examination: 7-NOV-2020:07:31 File:07NOV20Z

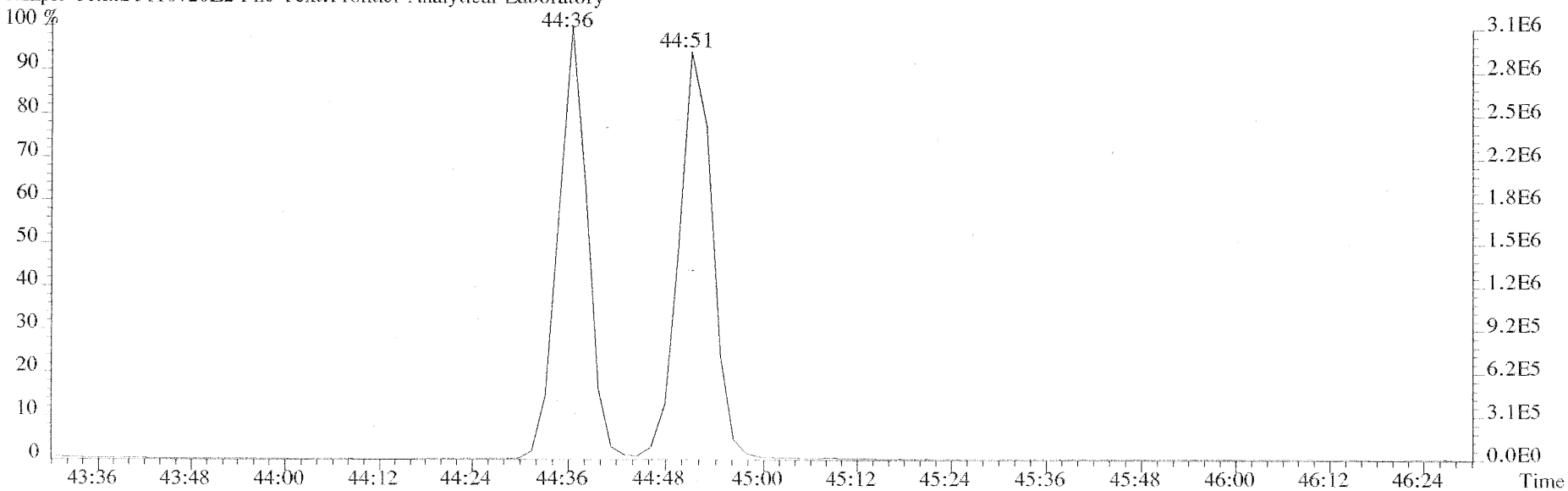
Experiment:1668PCB Function:6 Reference:PFK



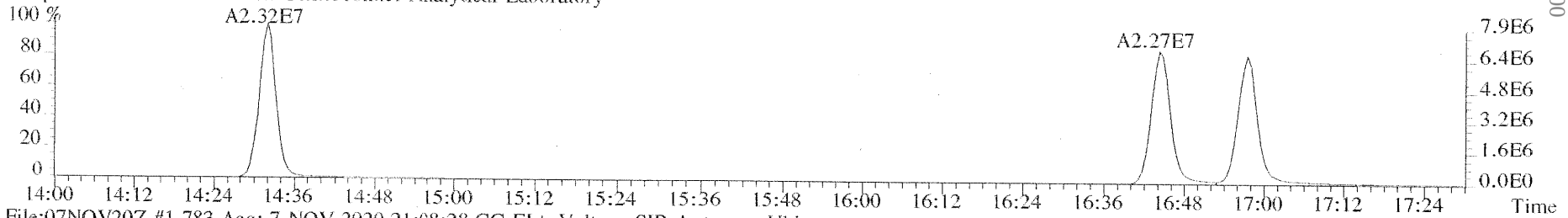
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:5 Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



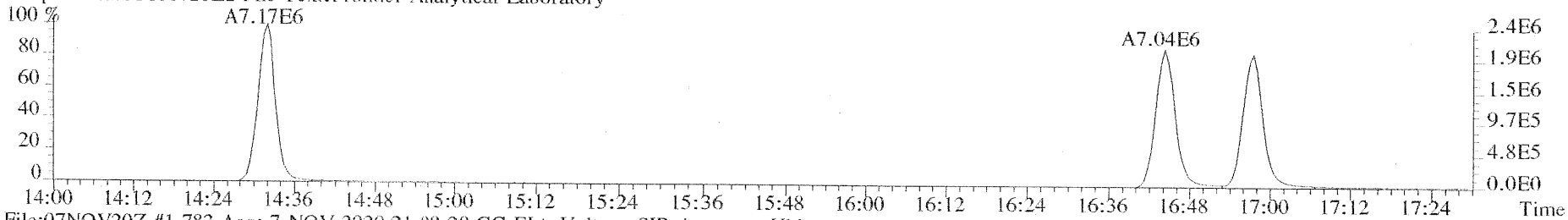
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:5 Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



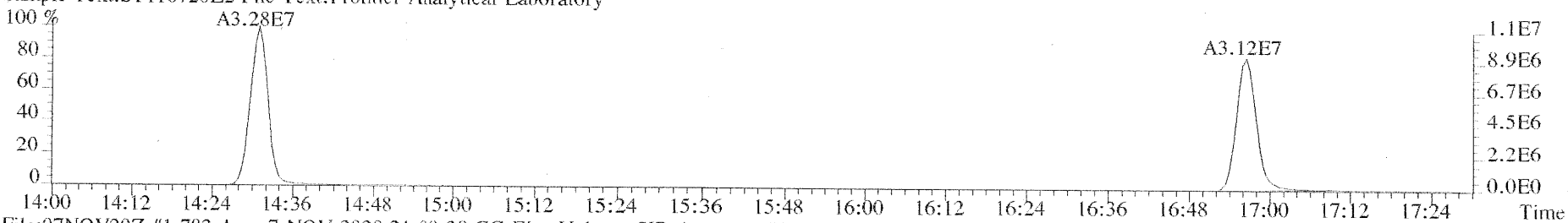
File:07NOV20Z #1-783 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



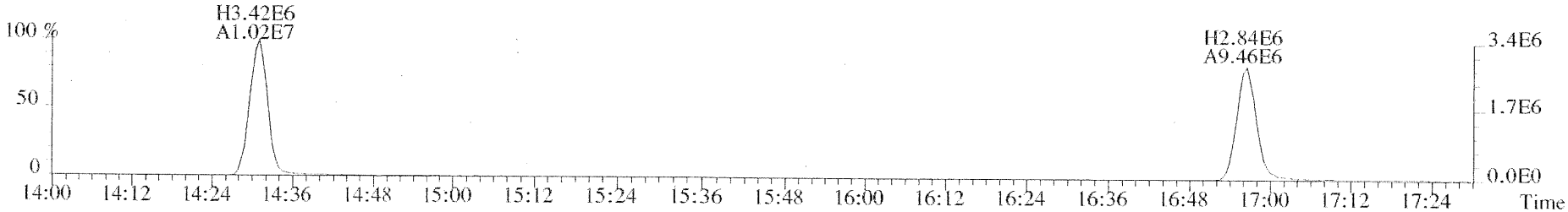
File:07NOV20Z #1-783 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



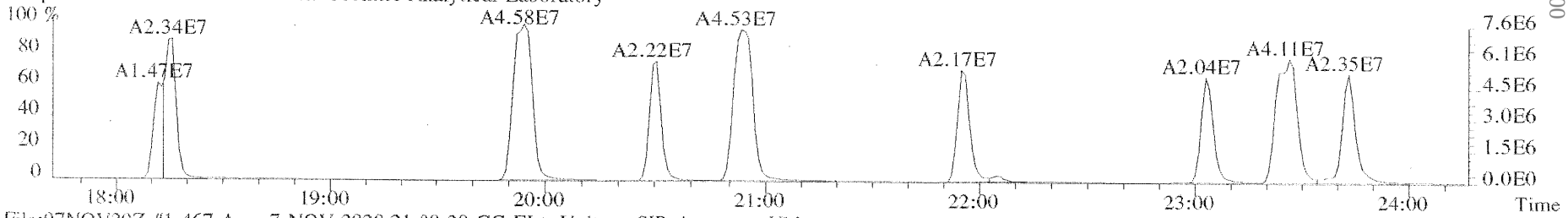
File:07NOV20Z #1-783 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



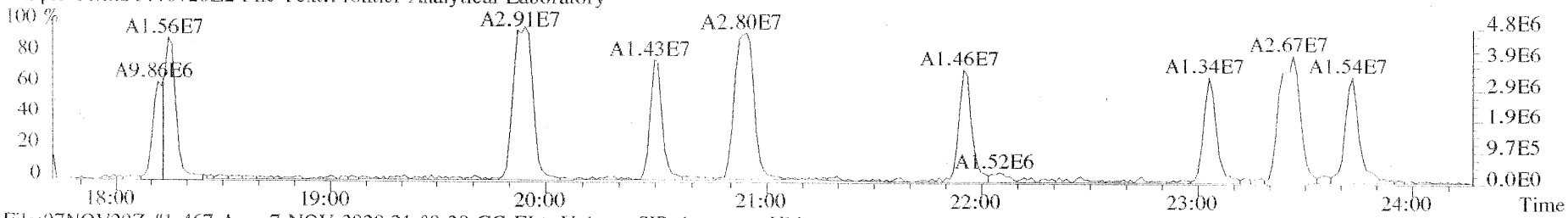
File:07NOV20Z #1-783 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:15 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



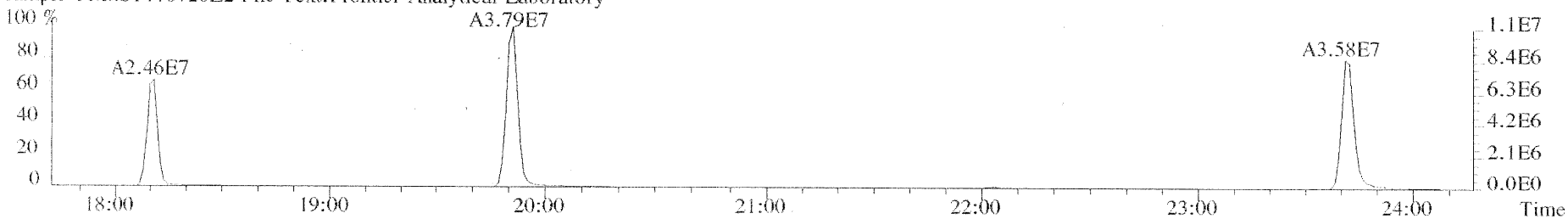
File:07NOV20Z #1-467 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:15 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



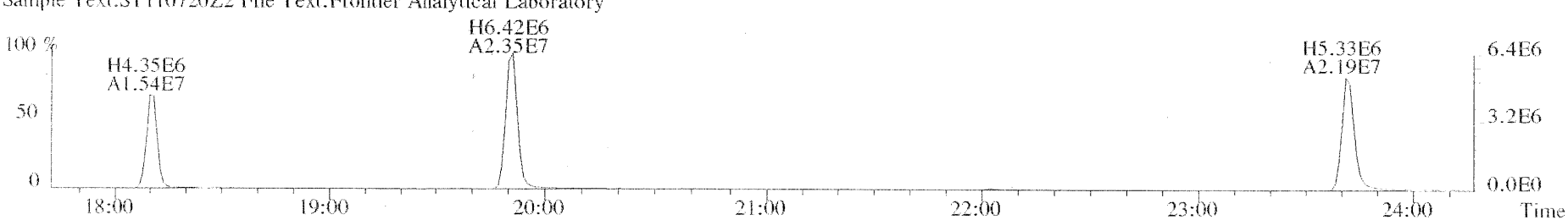
File:07NOV20Z #1-467 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
223.9975 S:15 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



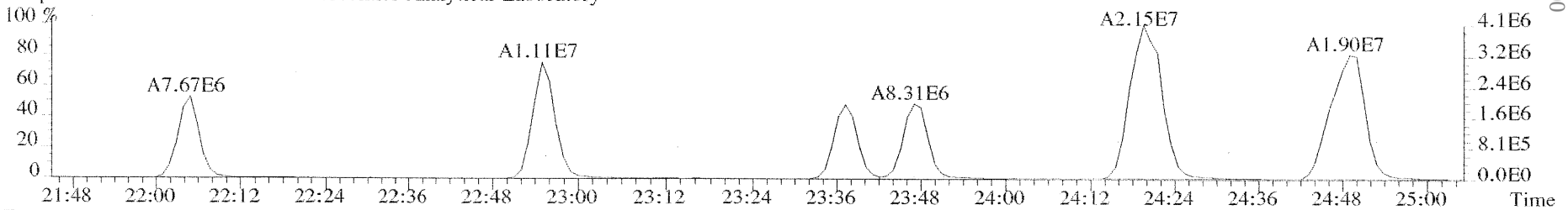
File:07NOV20Z #1-467 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:15 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



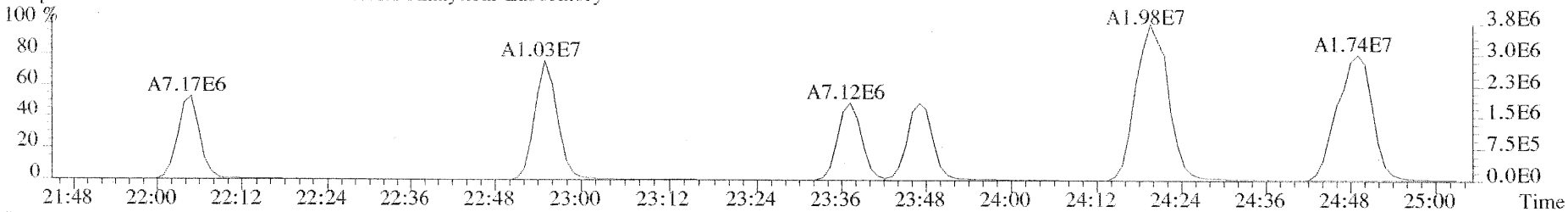
File:07NOV20Z #1-467 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:15 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



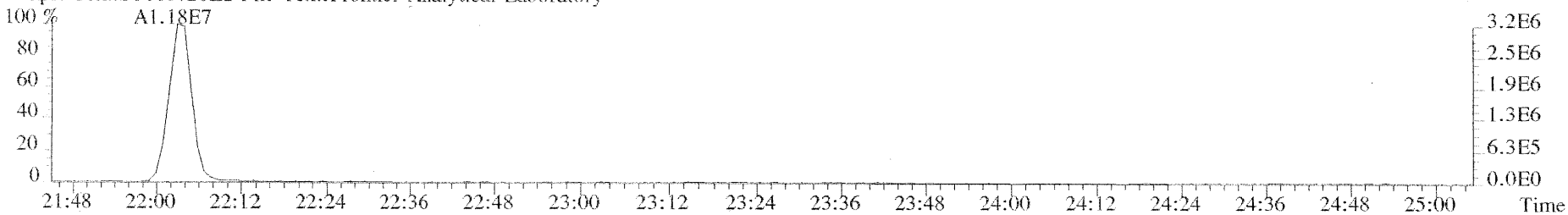
File:07NOV20Z #1-467 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



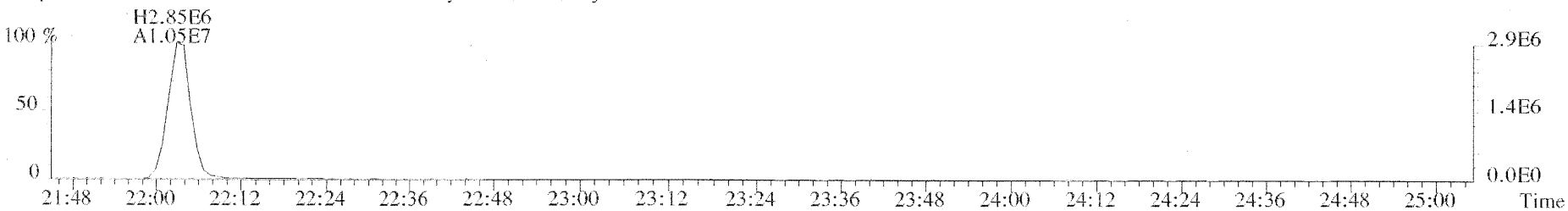
File:07NOV20Z #1-467 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



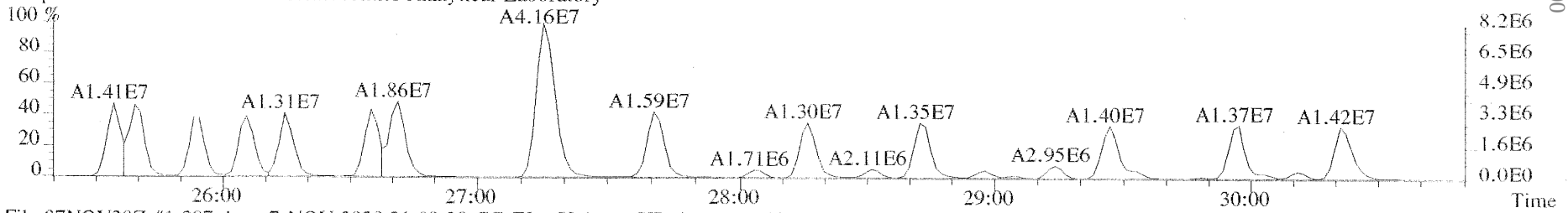
File:07NOV20Z #1-467 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



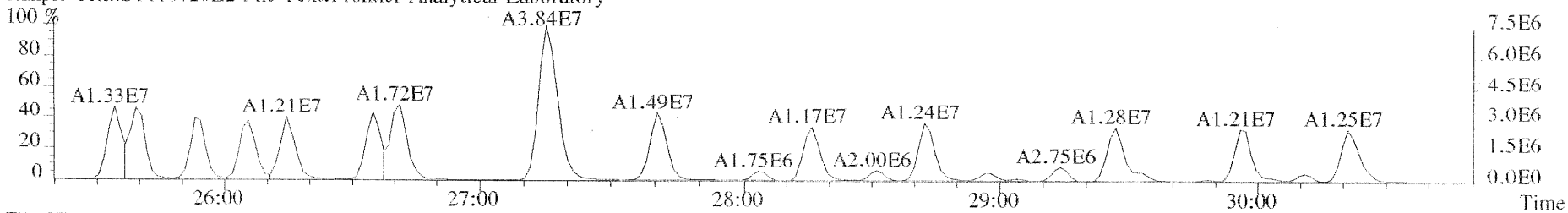
File:07NOV20Z #1-467 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:15 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



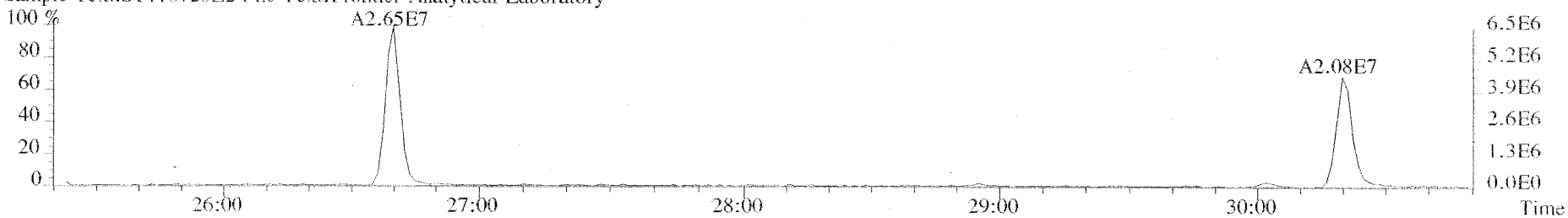
File:07NOV20Z #1-397 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



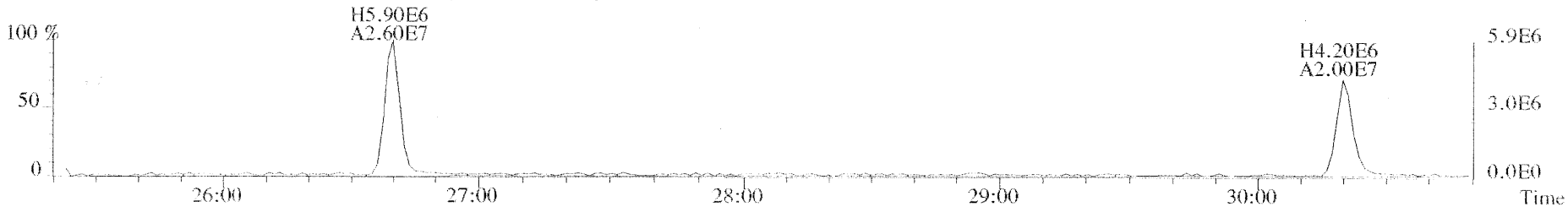
File:07NOV20Z #1-397 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



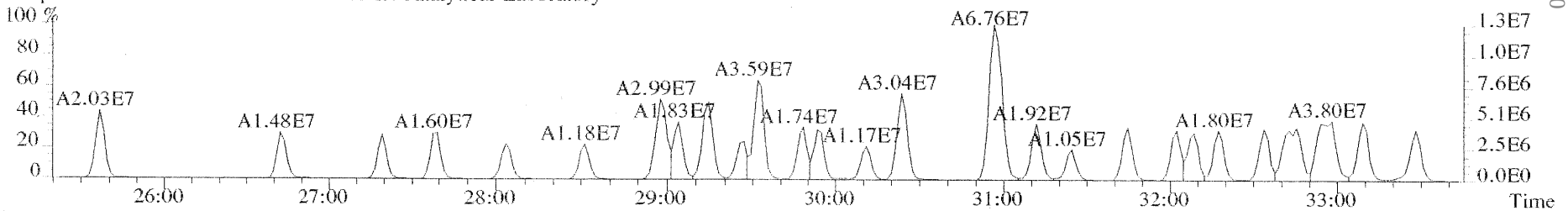
File:07NOV20Z #1-397 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



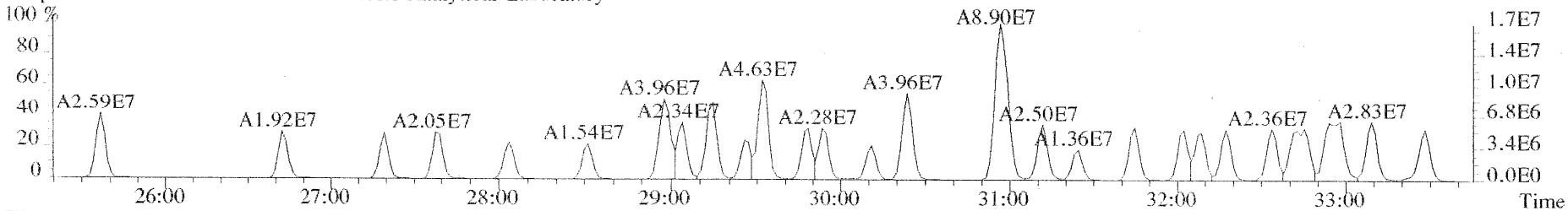
File:07NOV20Z #1-397 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



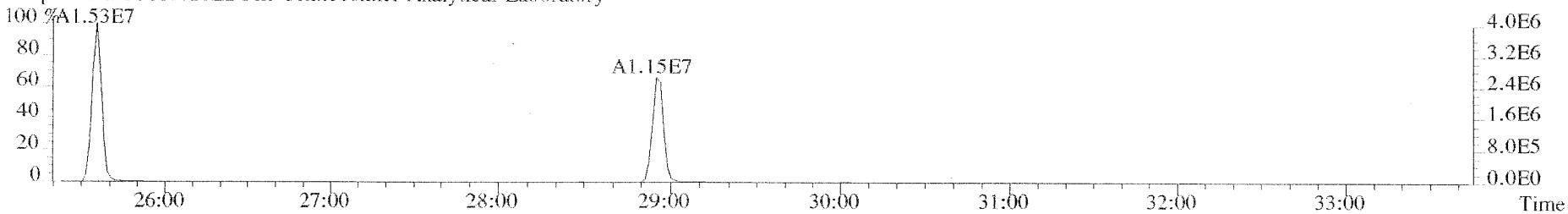
File:07NOV20Z #1-397 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



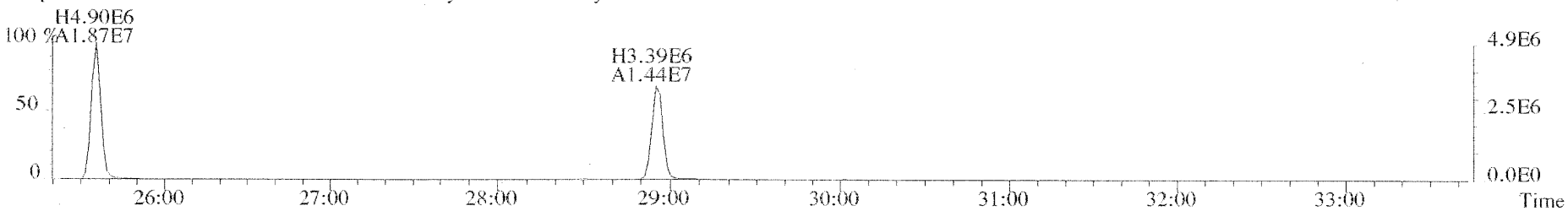
File:07NOV20Z #1-397 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



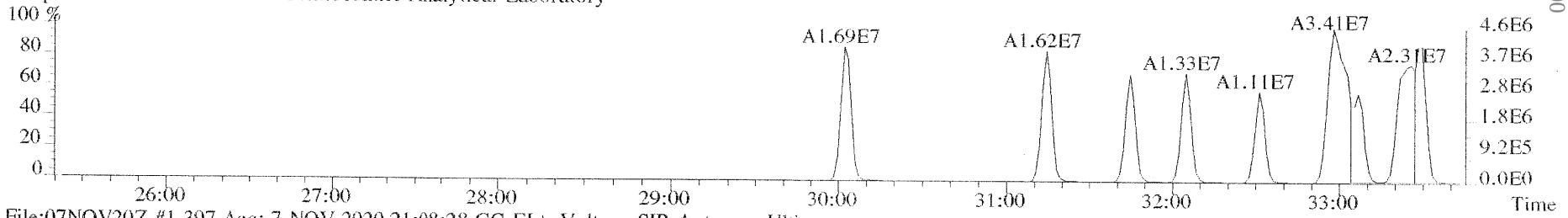
File:07NOV20Z #1-397 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



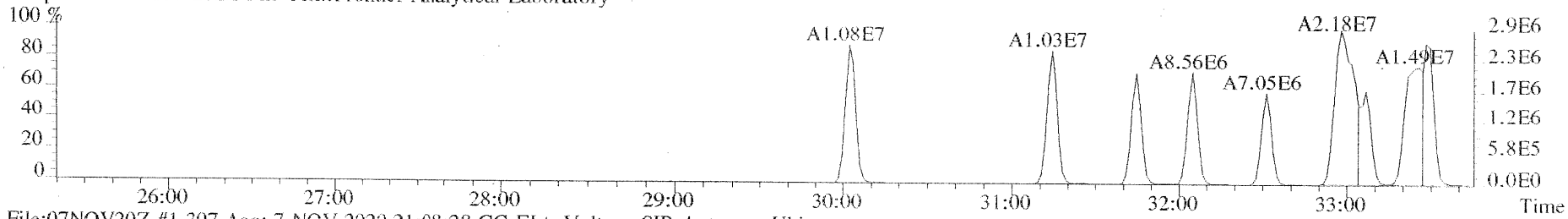
File:07NOV20Z #1-397 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



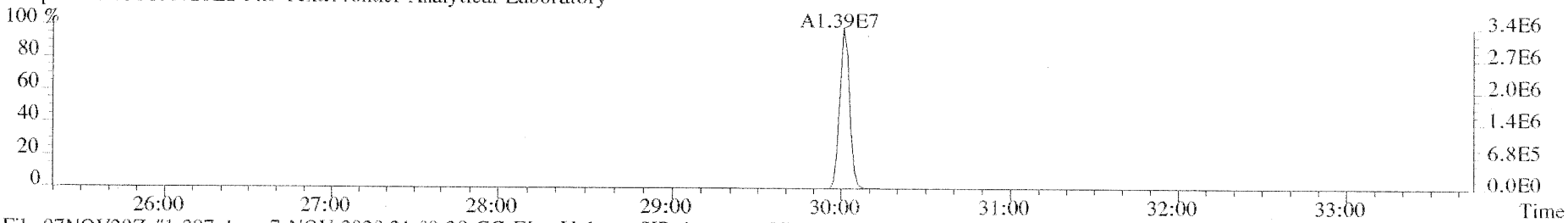
File:07NOV20Z #1-397 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



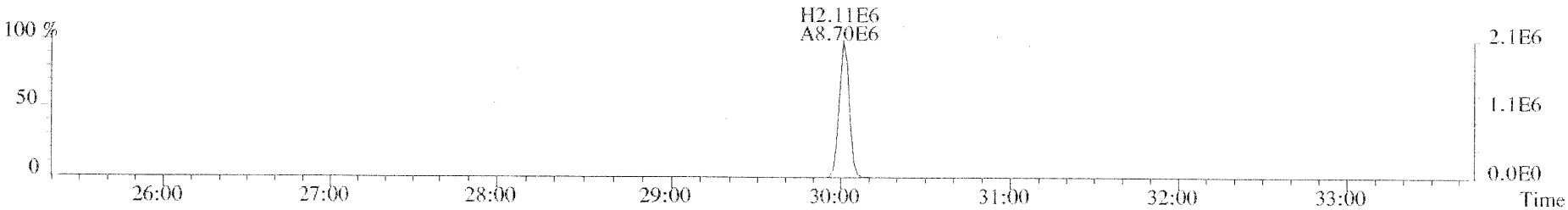
File:07NOV20Z #1-397 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



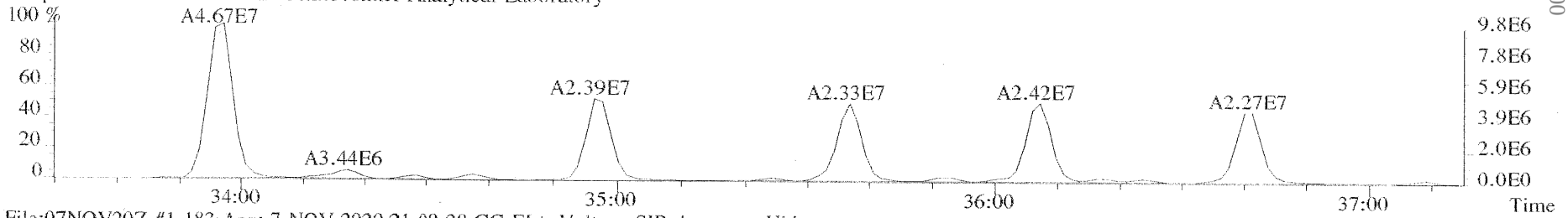
File:07NOV20Z #1-397 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



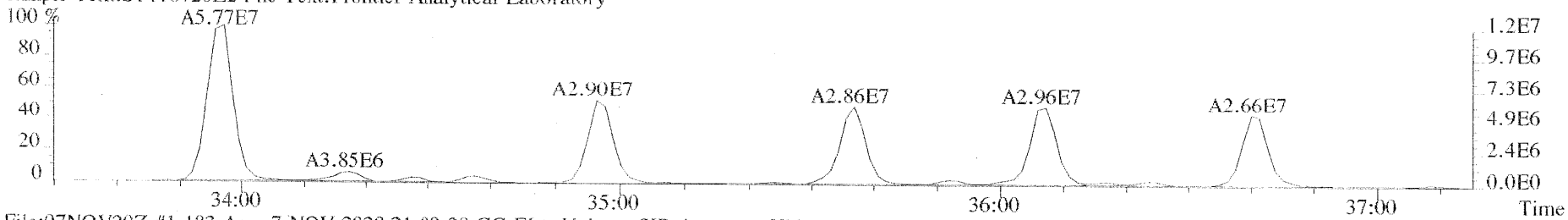
File:07NOV20Z #1-397 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



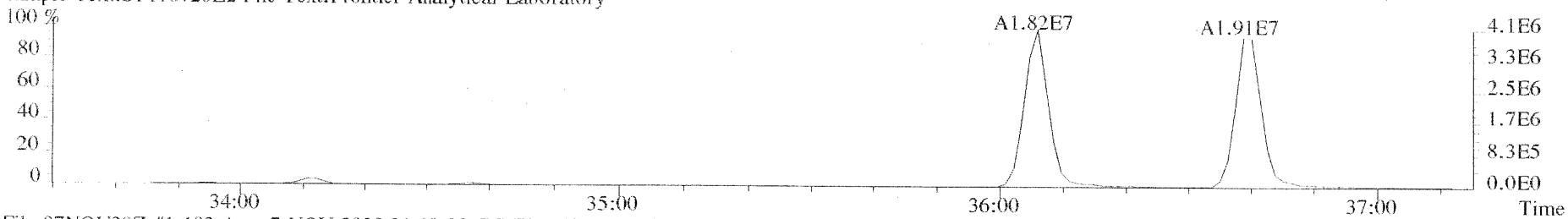
File:07NOV20Z #1-183 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



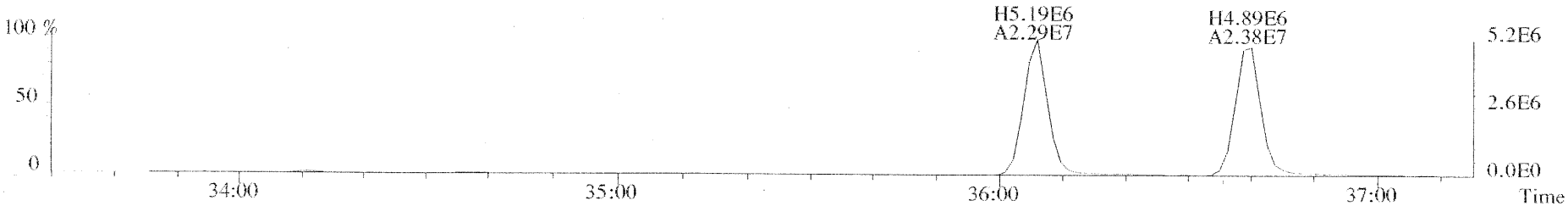
File:07NOV20Z #1-183 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



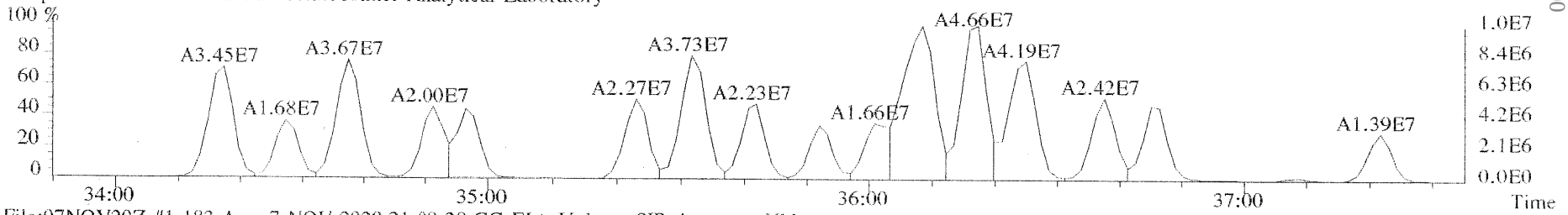
File:07NOV20Z #1-183 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



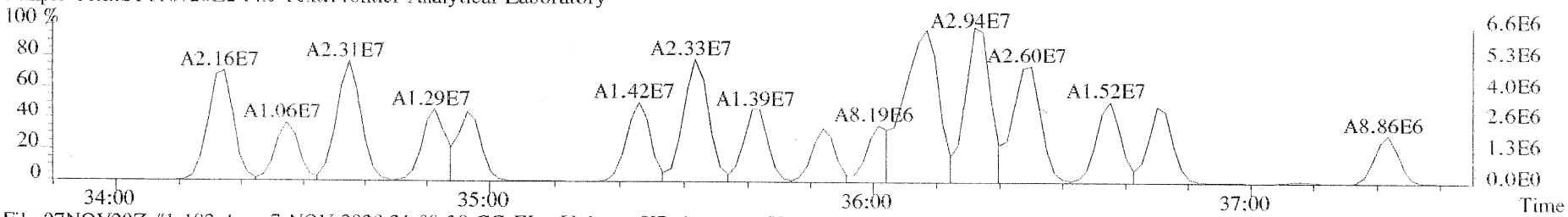
File:07NOV20Z #1-183 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



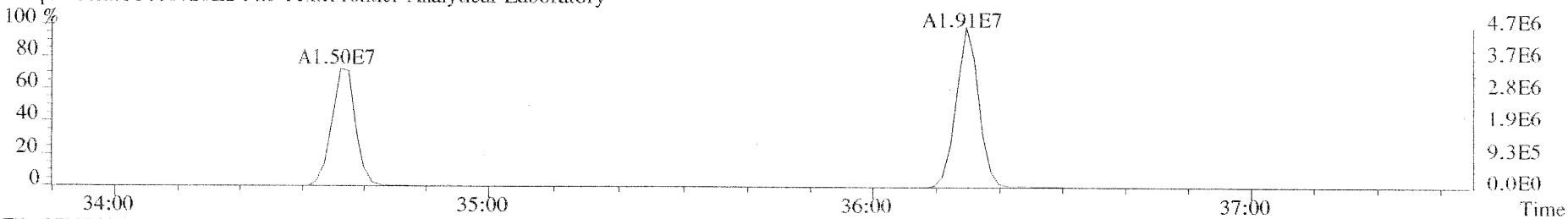
File:07NOV20Z #1-183 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



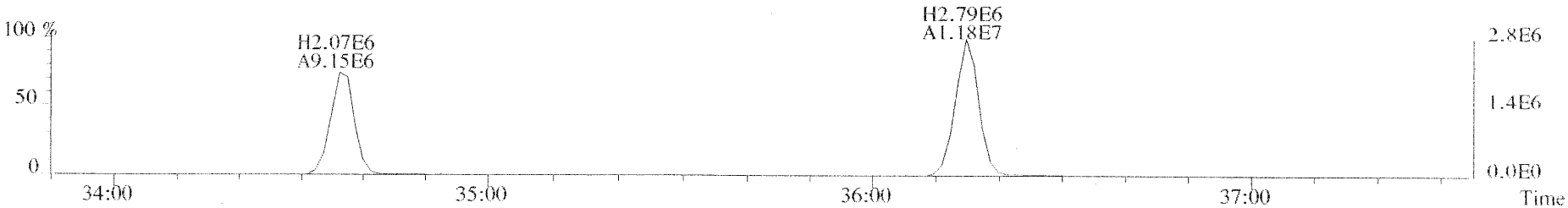
File:07NOV20Z #1-183 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



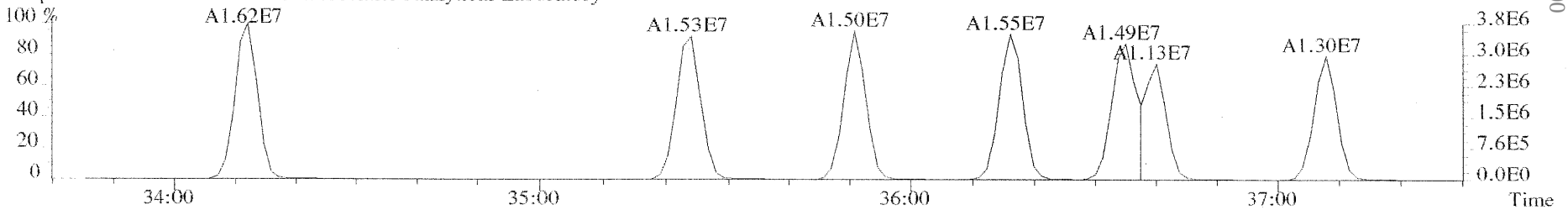
File:07NOV20Z #1-183 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



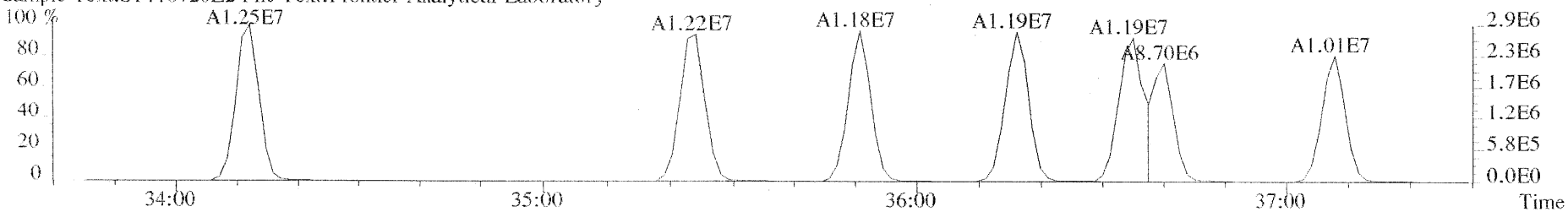
File:07NOV20Z #1-183 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



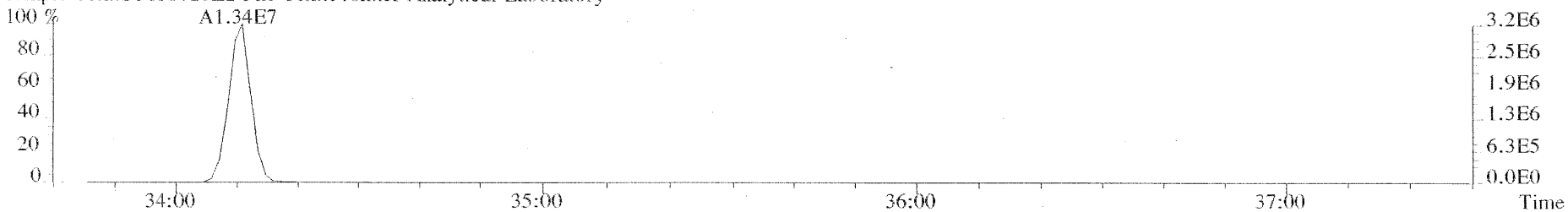
File:07NOV20Z #1-183 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



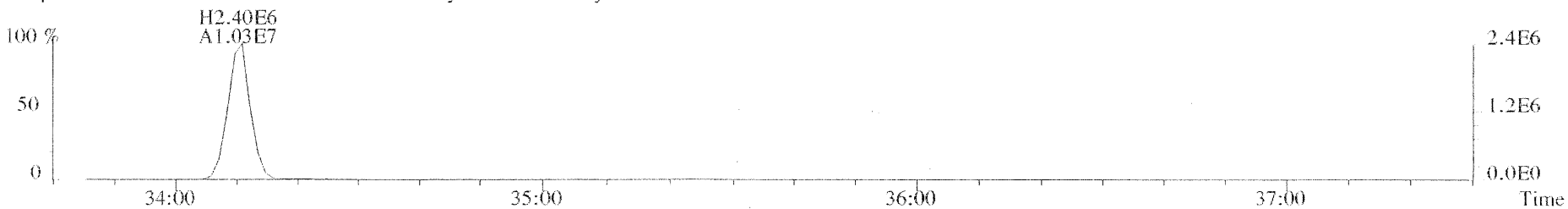
File:07NOV20Z #1-183 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



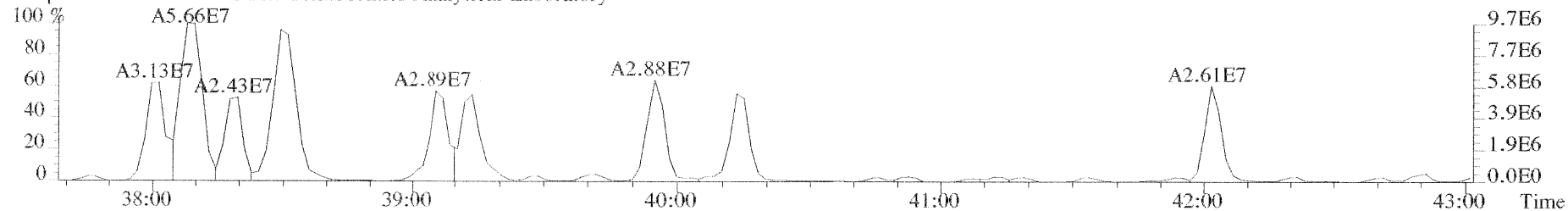
File:07NOV20Z #1-183 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



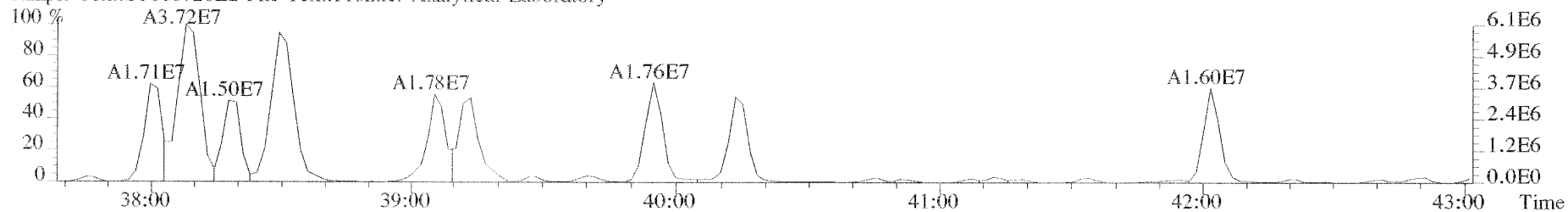
File:07NOV20Z #1-183 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



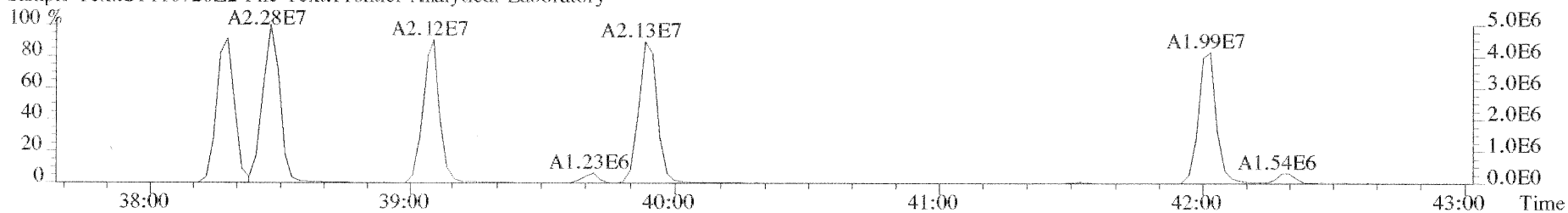
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:15 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



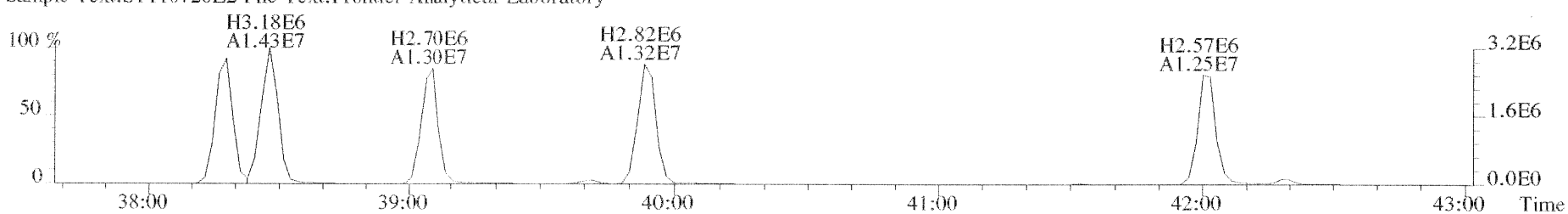
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:15 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



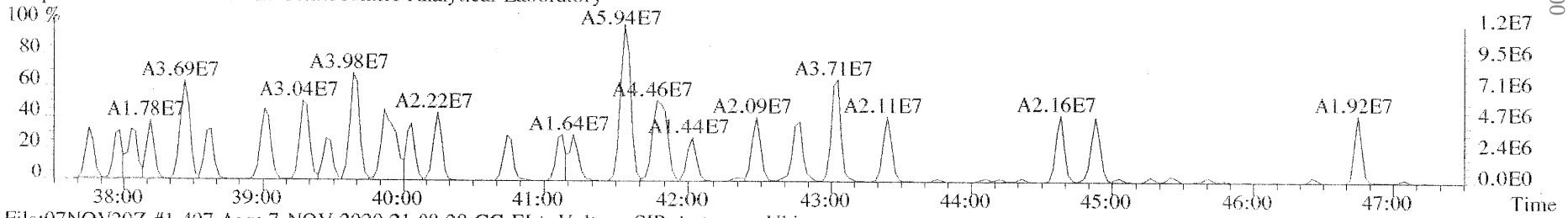
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:15 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



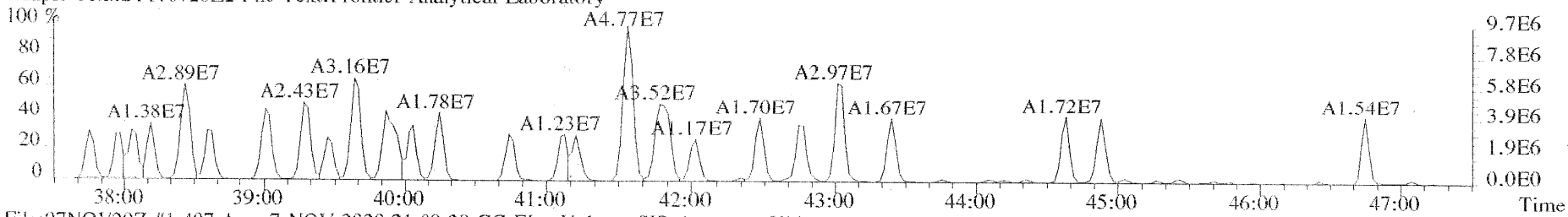
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:15 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



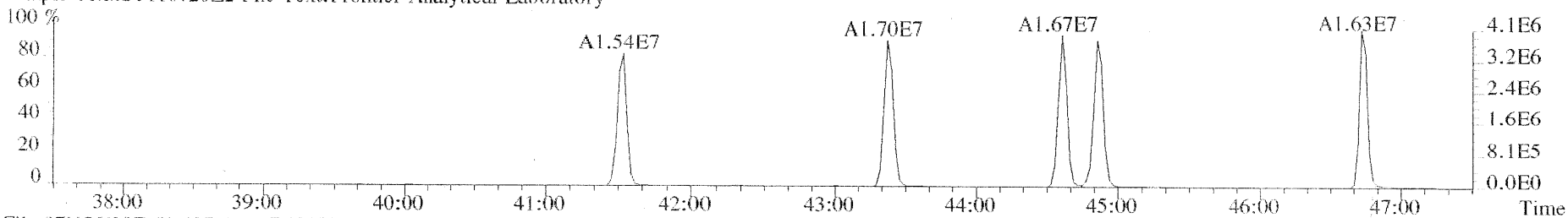
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



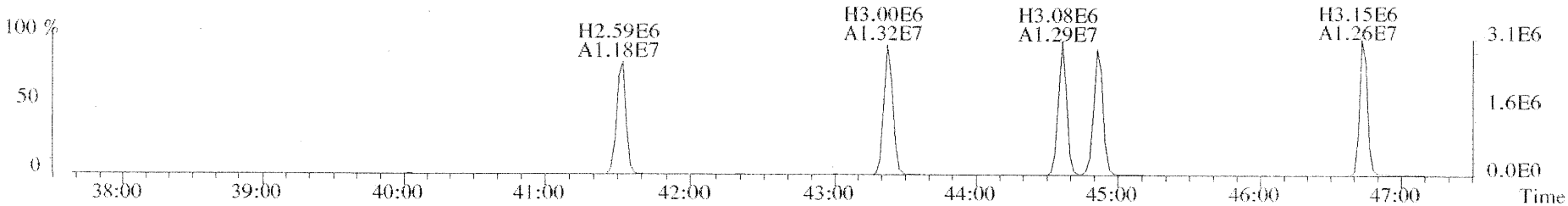
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



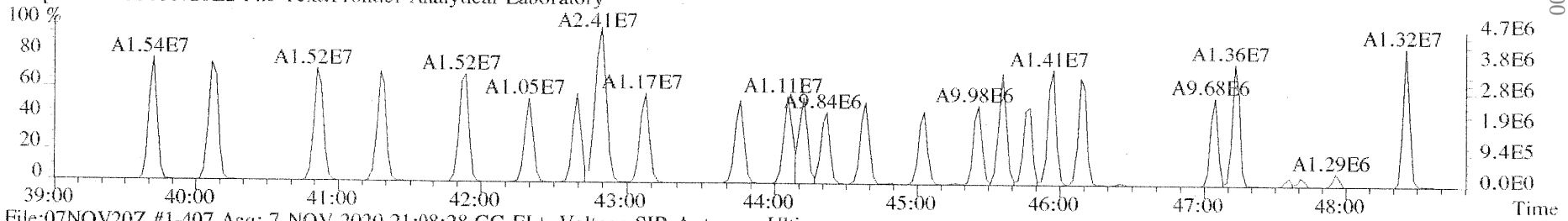
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



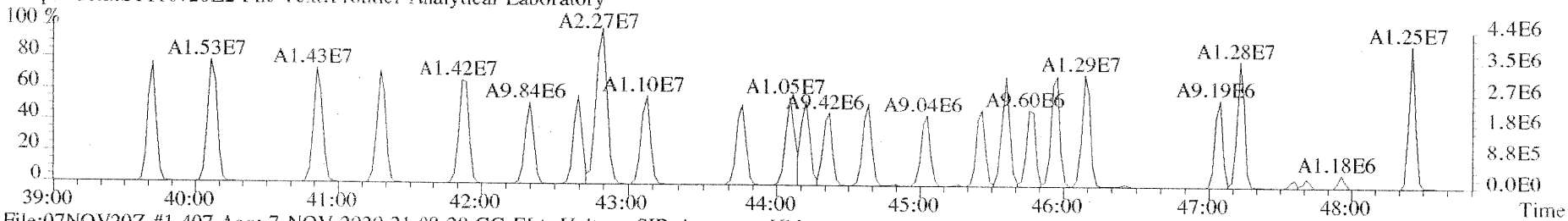
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



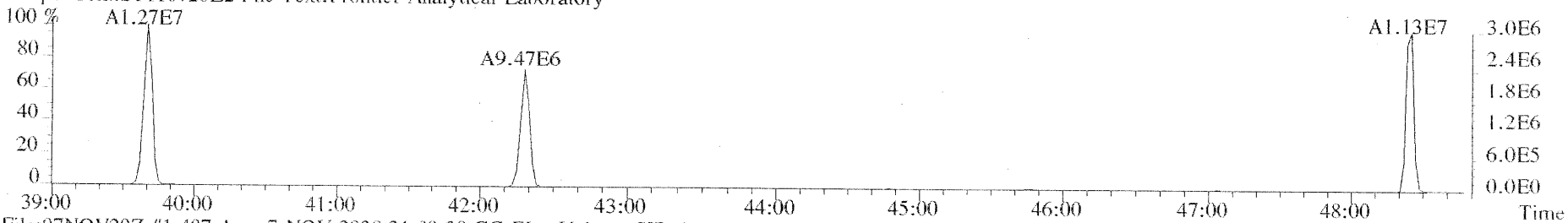
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



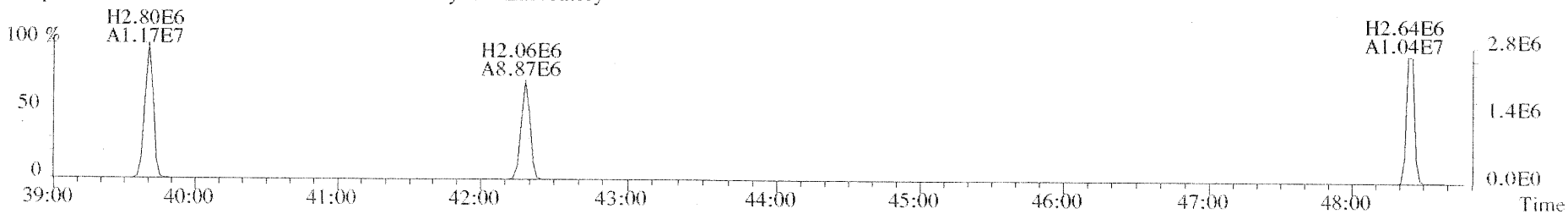
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



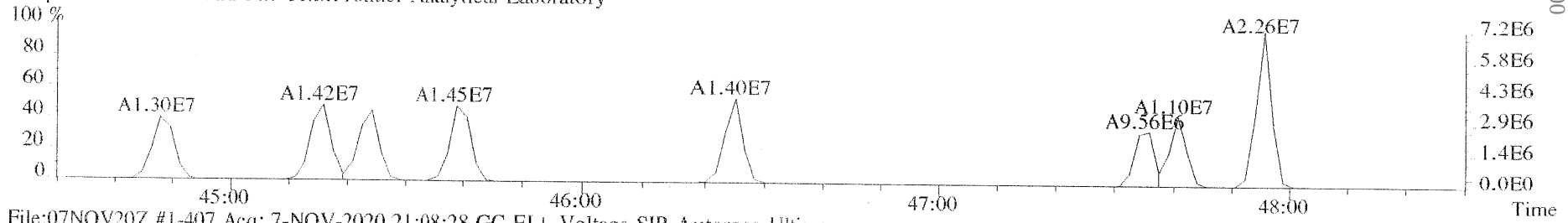
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



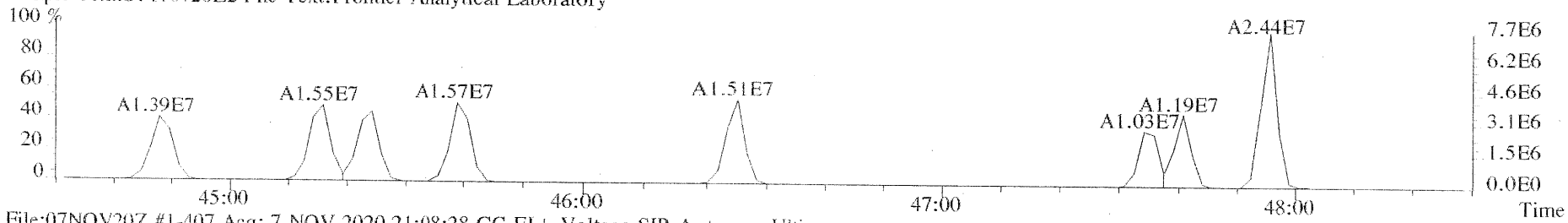
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



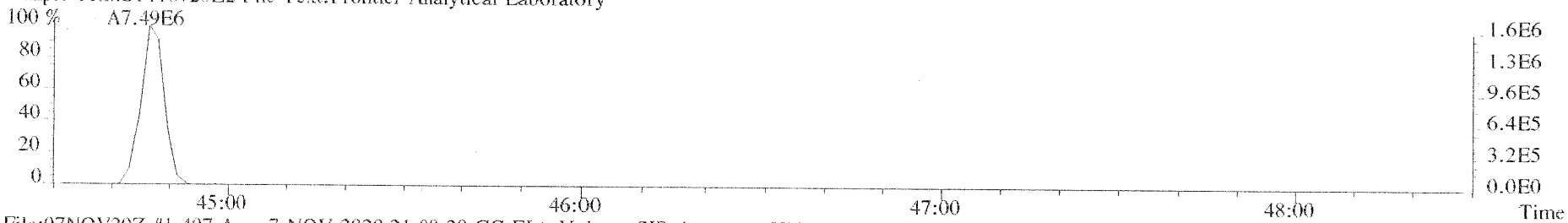
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



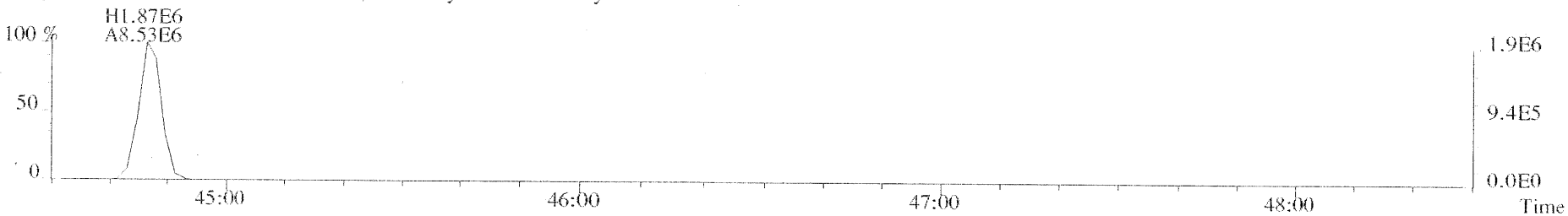
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



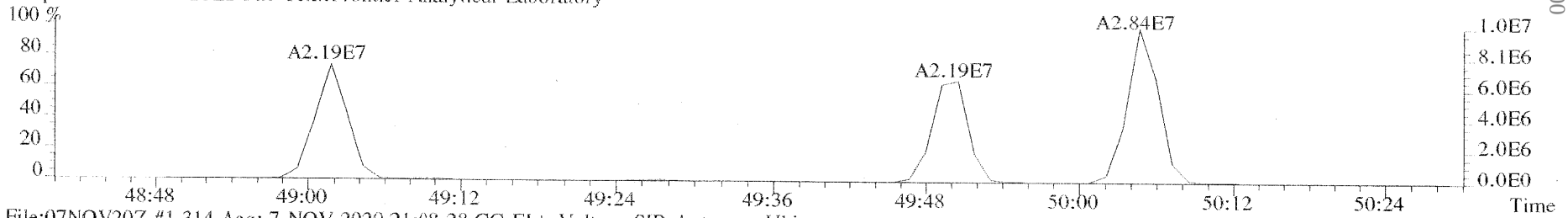
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



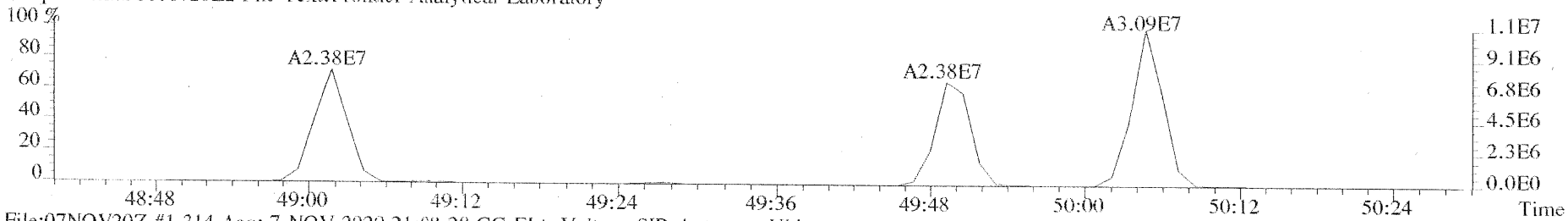
File:07NOV20Z #1-407 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:15 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



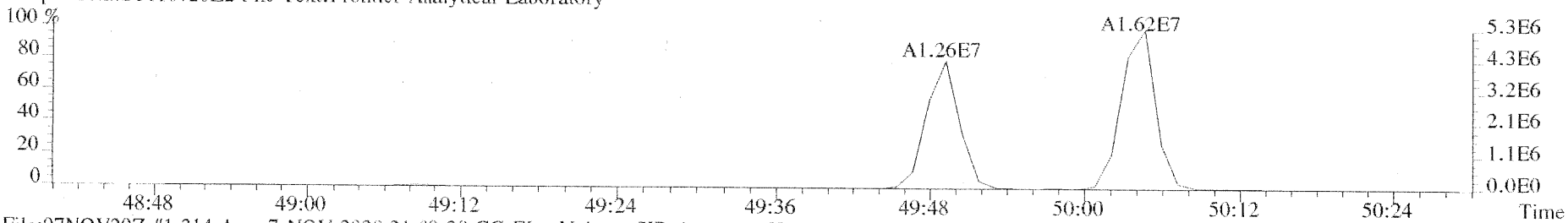
File:07NOV20Z #1-314 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



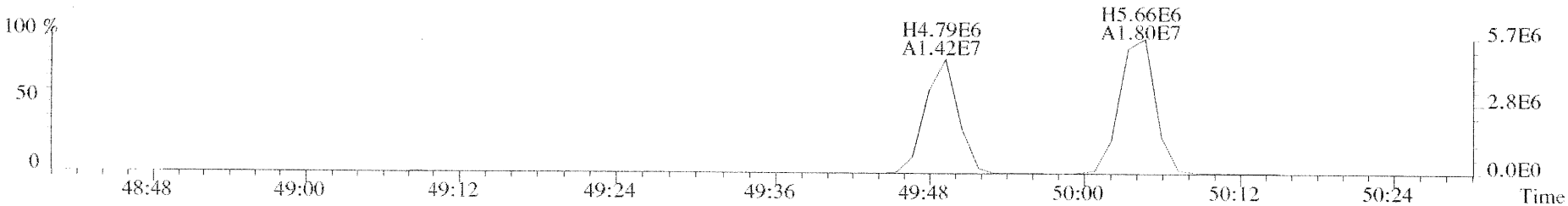
File:07NOV20Z #1-314 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



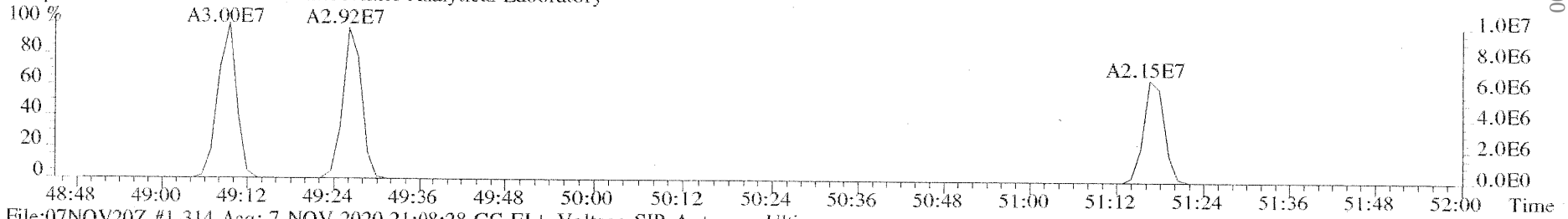
File:07NOV20Z #1-314 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



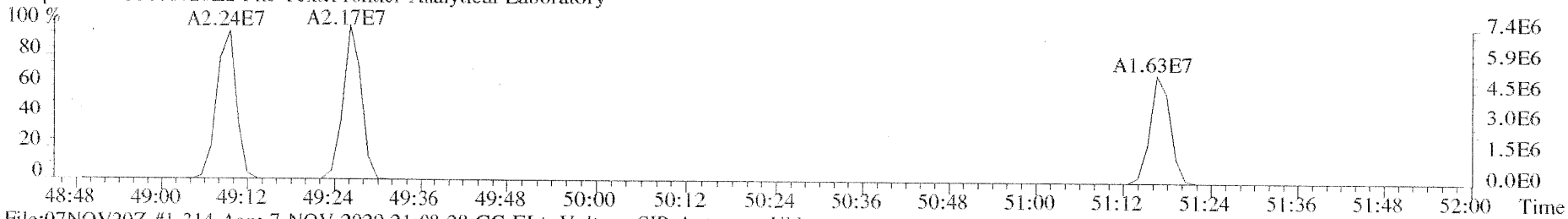
File:07NOV20Z #1-314 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



File:07NOV20Z #1-314 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



File:07NOV20Z #1-314 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



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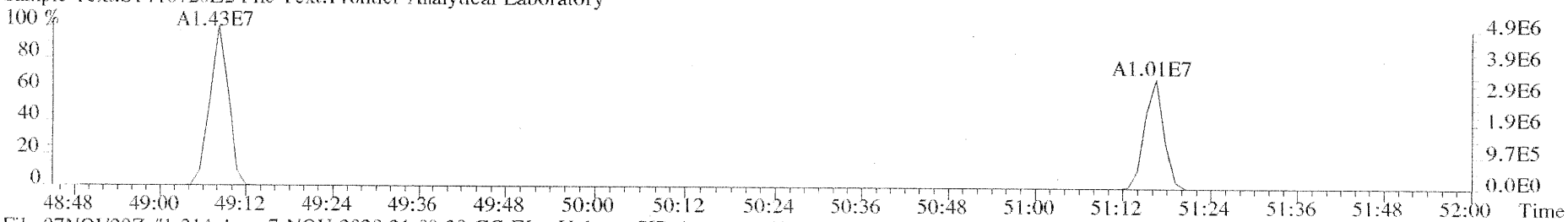
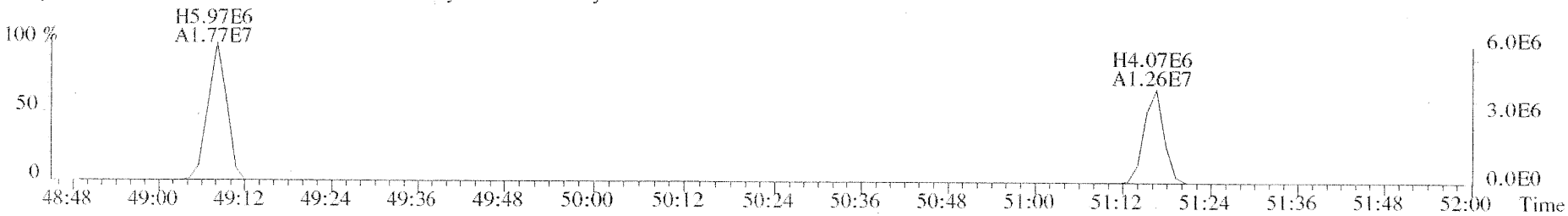
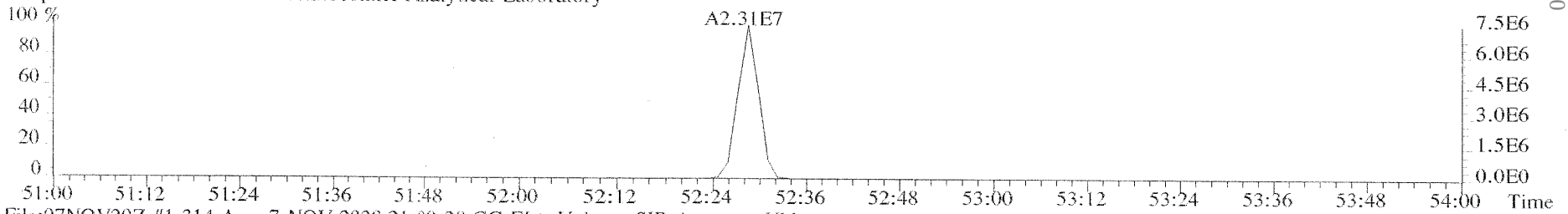
473.7648 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



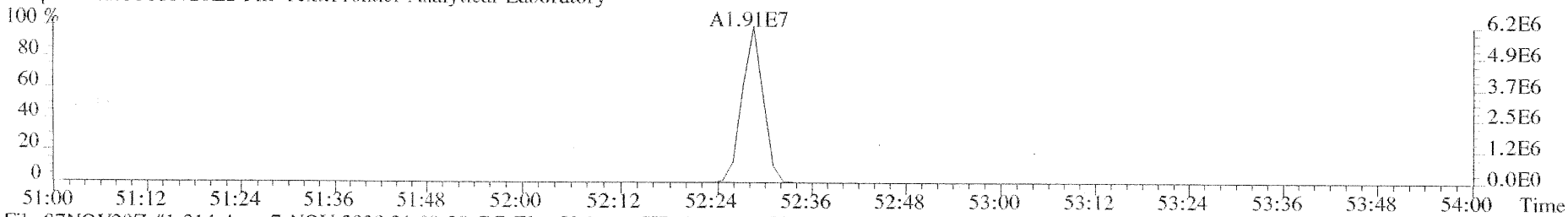
File:07NOV20Z #1-314 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



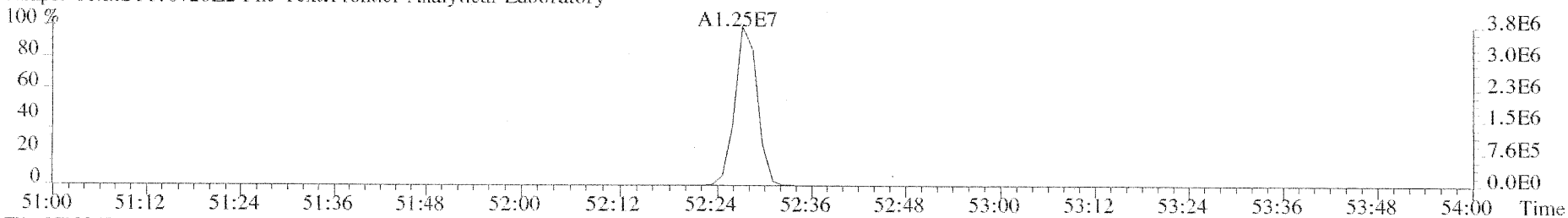
File:07NOV20Z #1-314 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



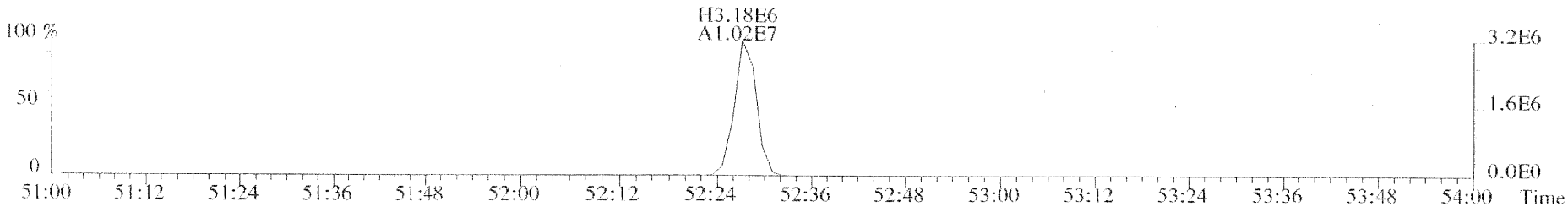
File:07NOV20Z #1-314 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory



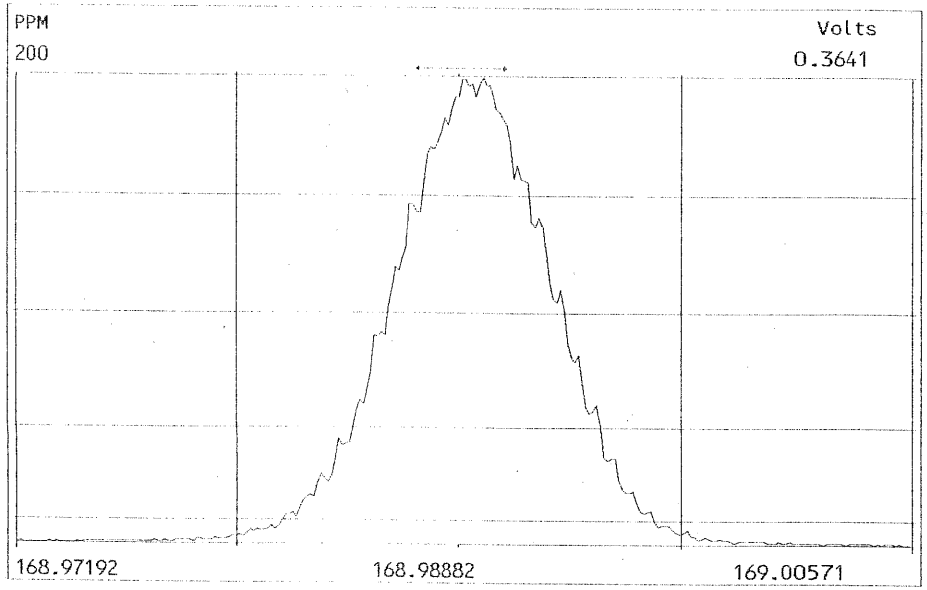
File:07NOV20Z #1-314 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory

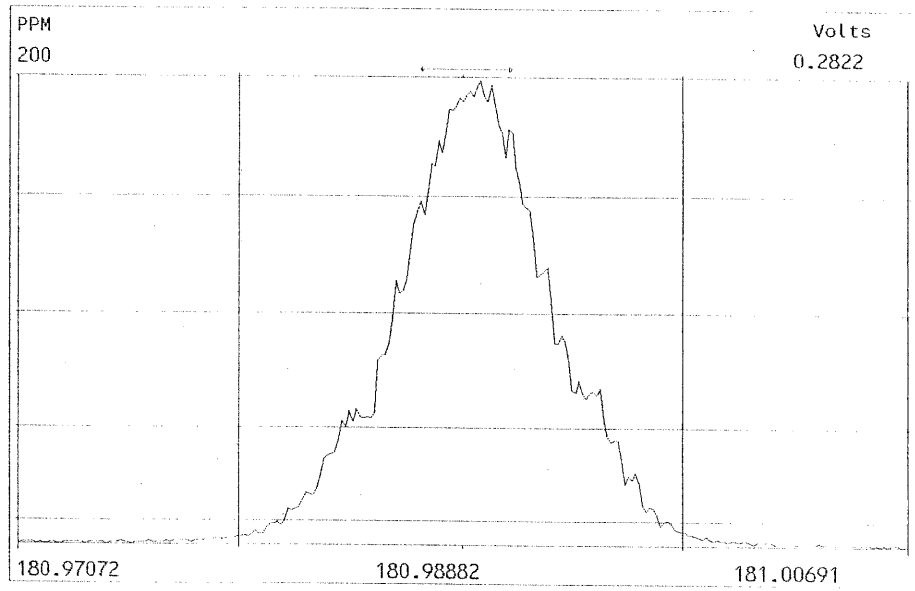


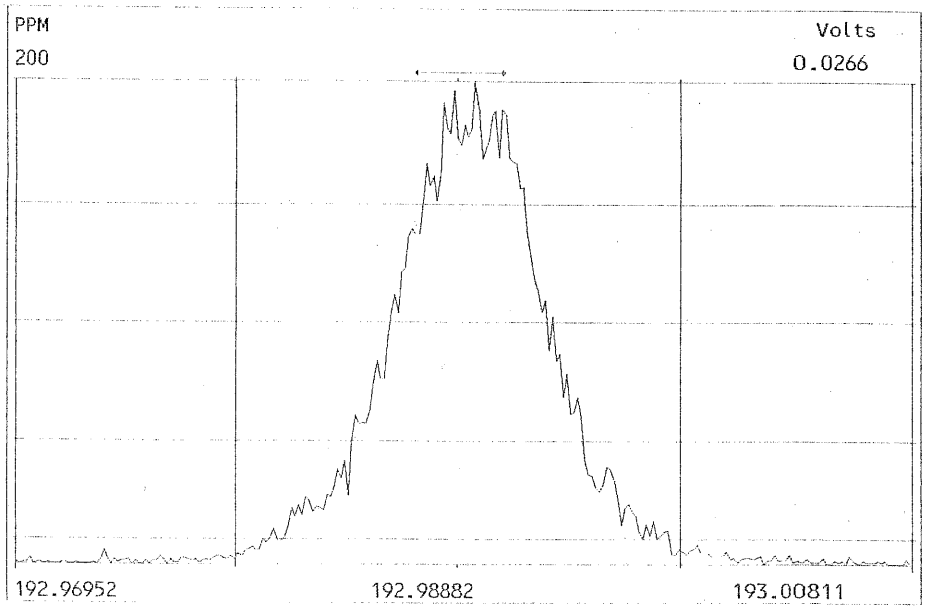
File:07NOV20Z #1-314 Acq: 7-NOV-2020 21:08:28 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:15 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST110720Z2 File Text:Frontier Analytical Laboratory

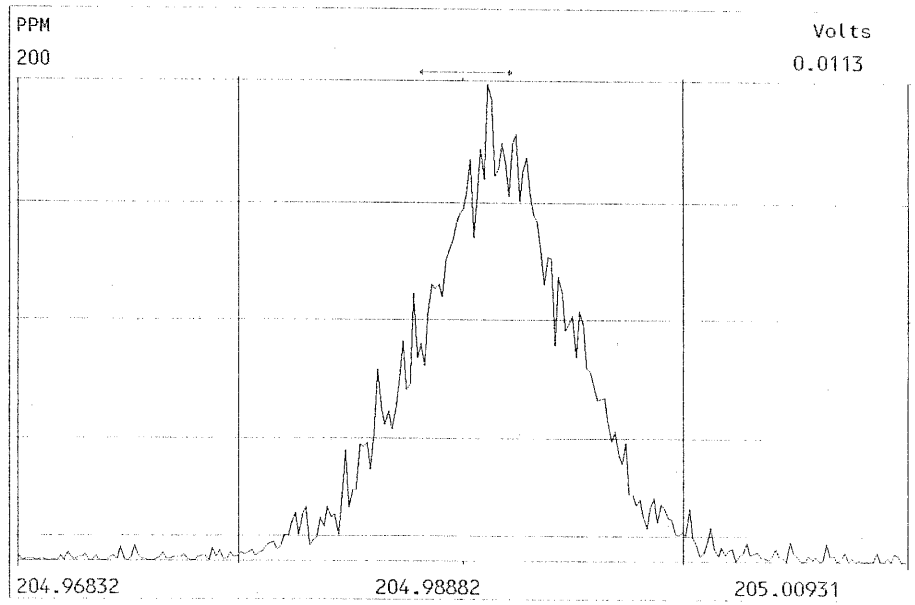


Peak Locate Examination: 7-NOV-2020:22:35 File:07NOV20Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK



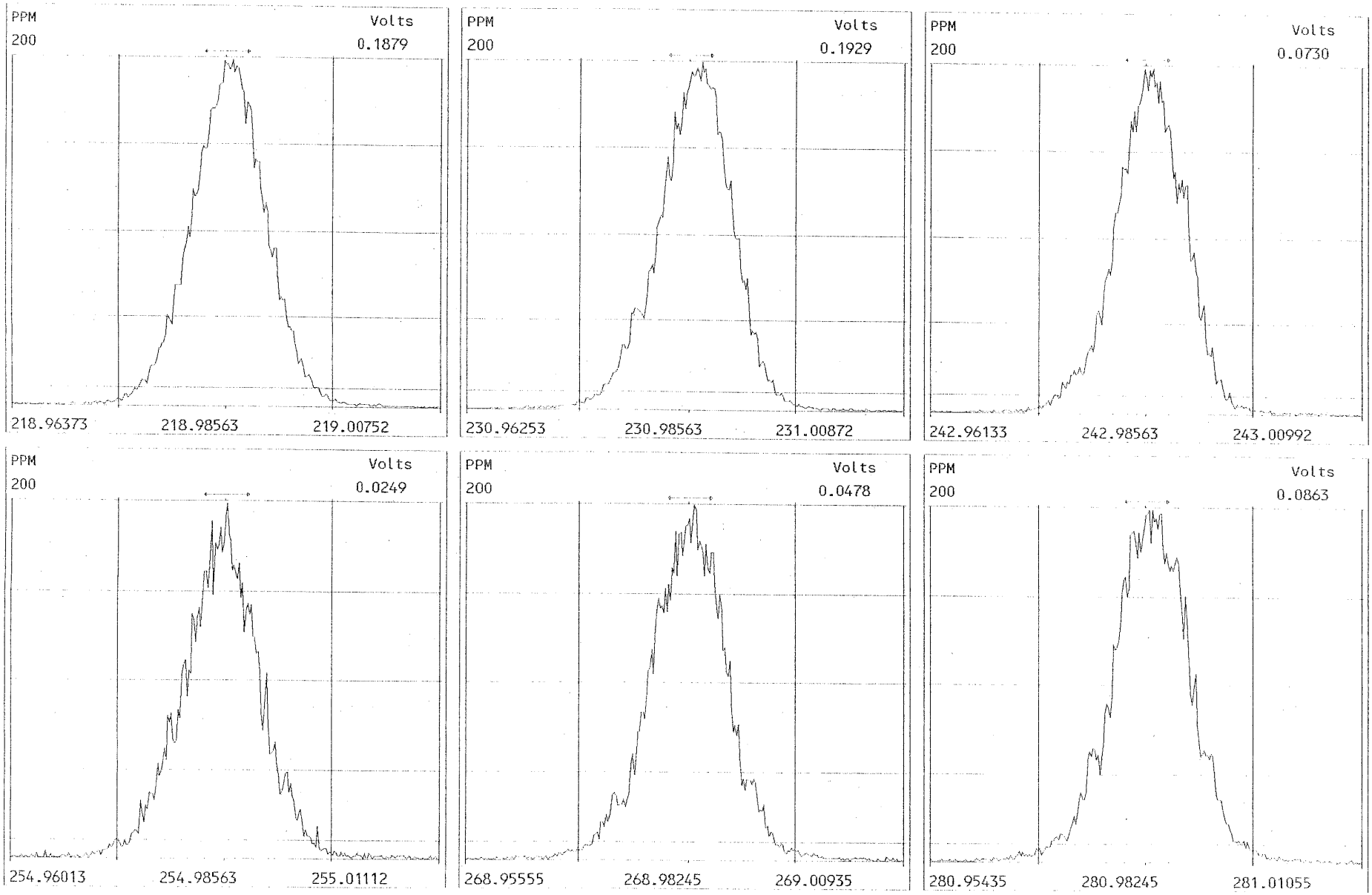




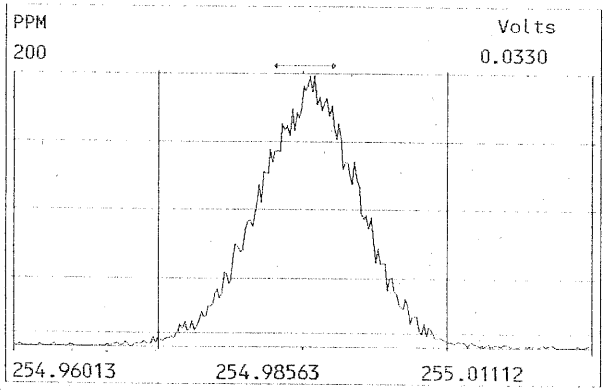


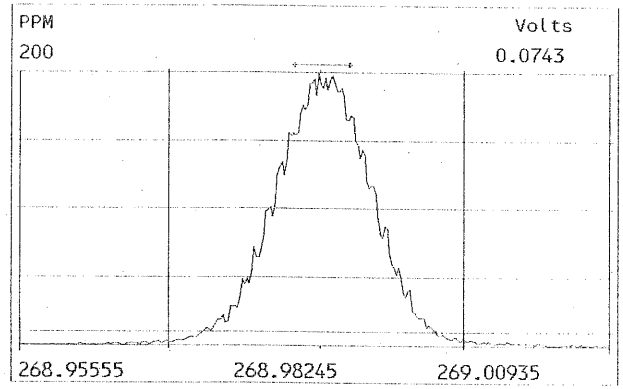
Peak Locate Examination: 7-NOV-2020:22:38 File:07NOV20Z_RES_CHECK

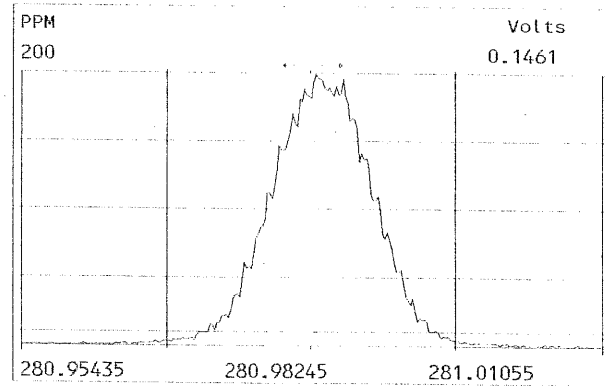
Experiment:1668PCB Function:2 Reference:PFK

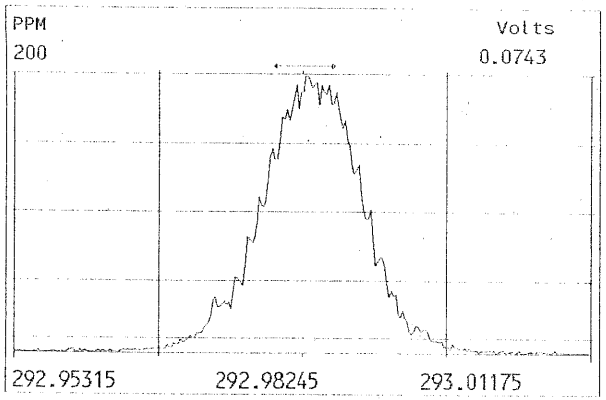


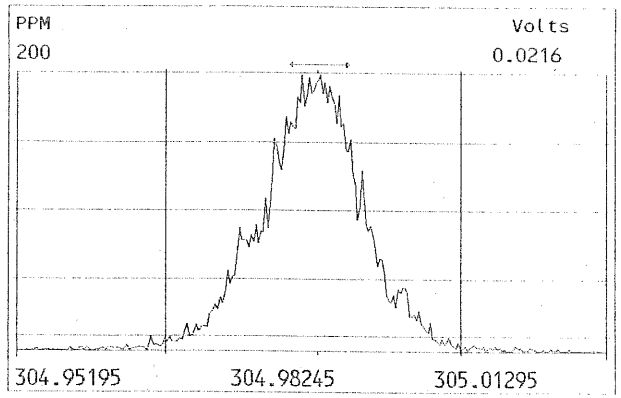
Peak Locate Examination: 7-NOV-2020:22:40 File:07NOV20Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

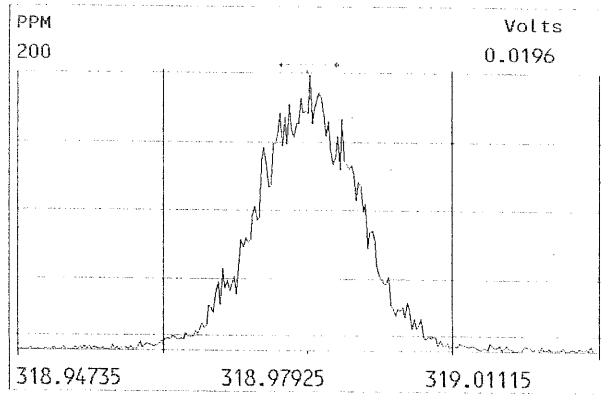


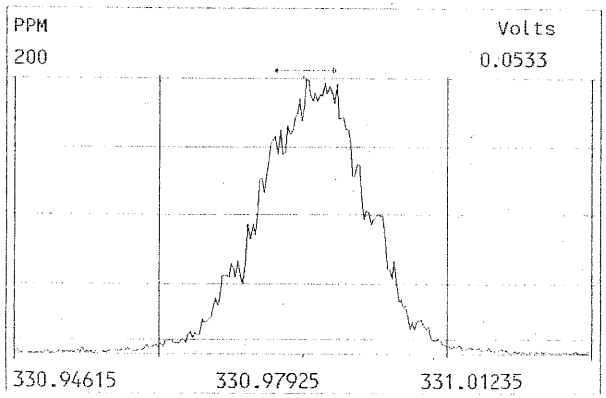


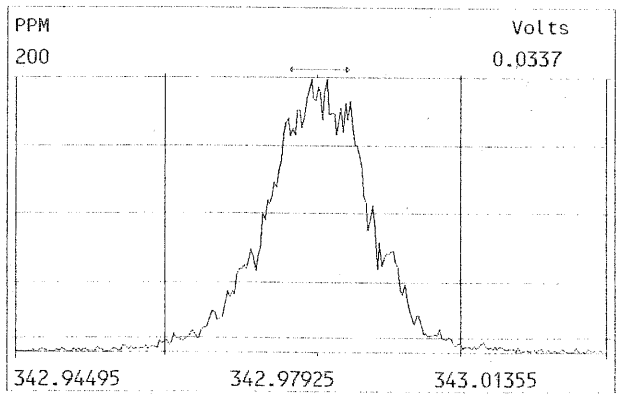




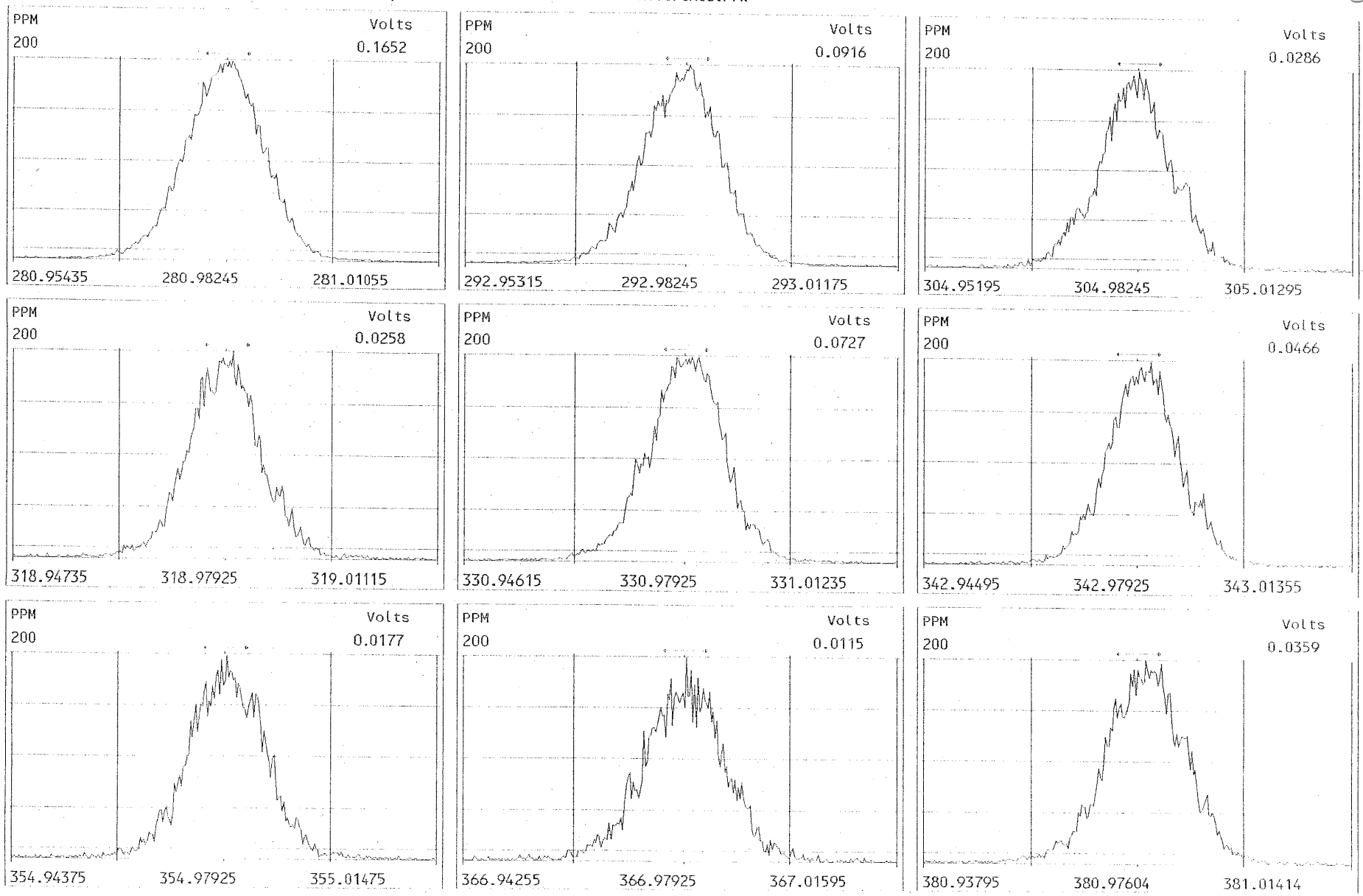




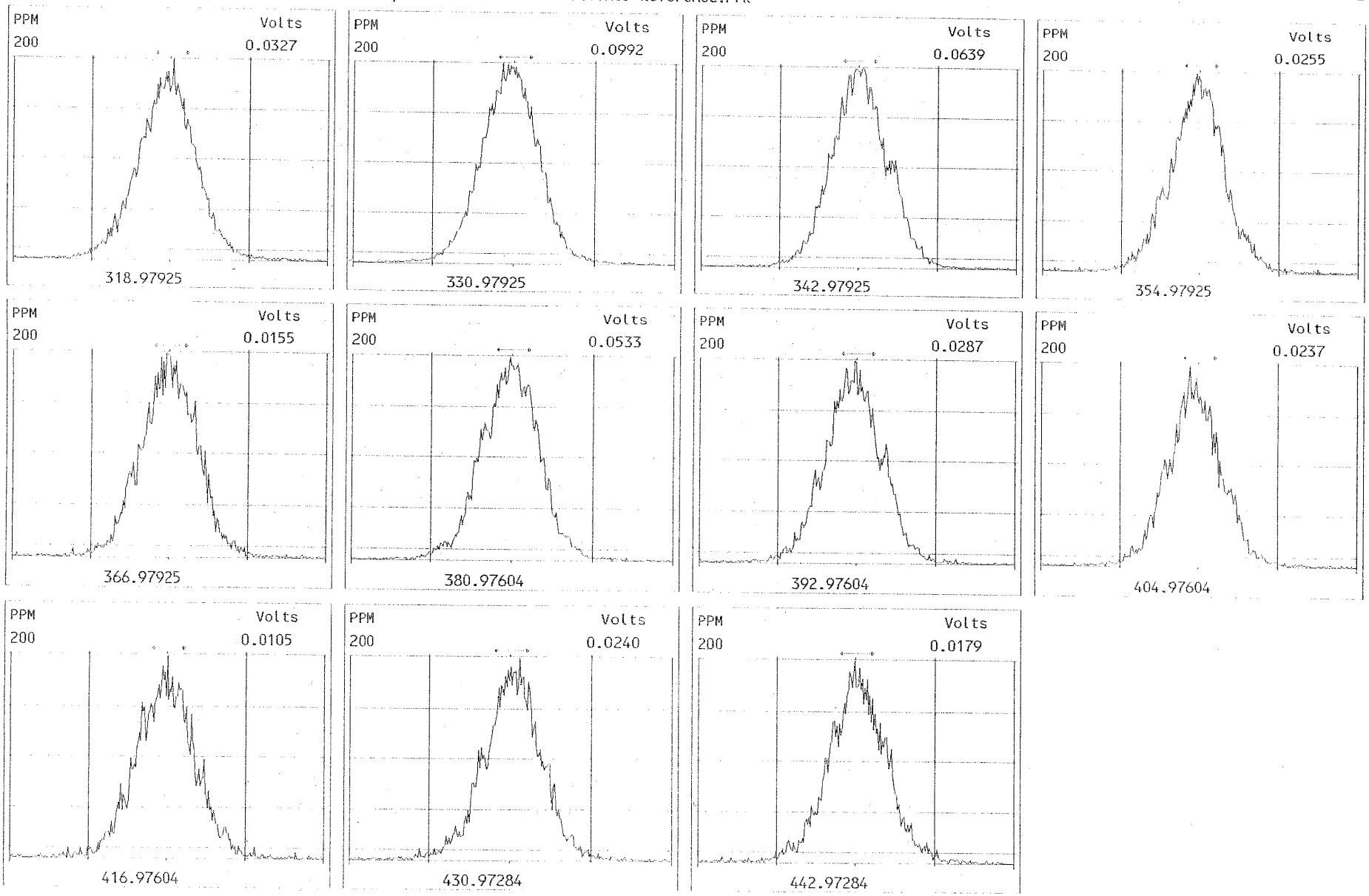
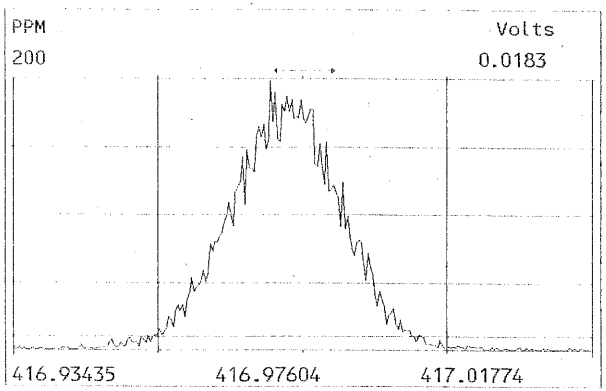
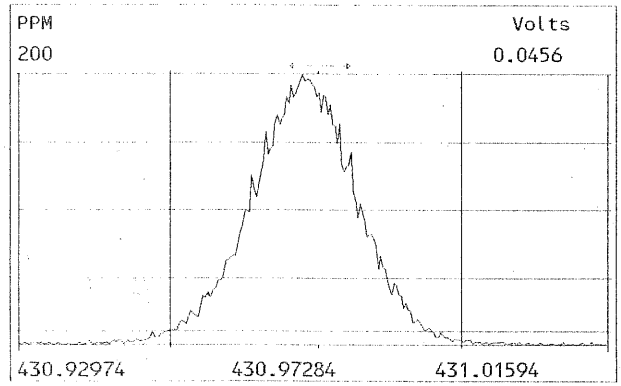
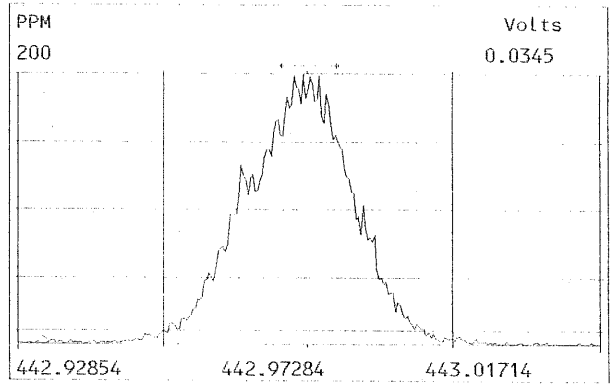
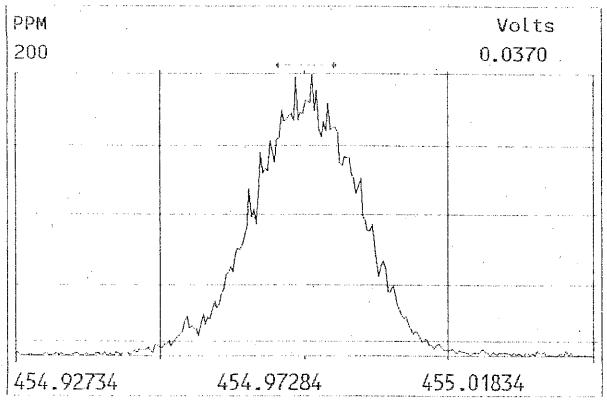
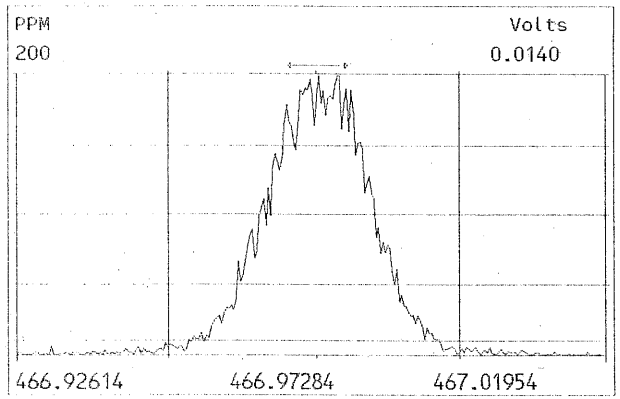
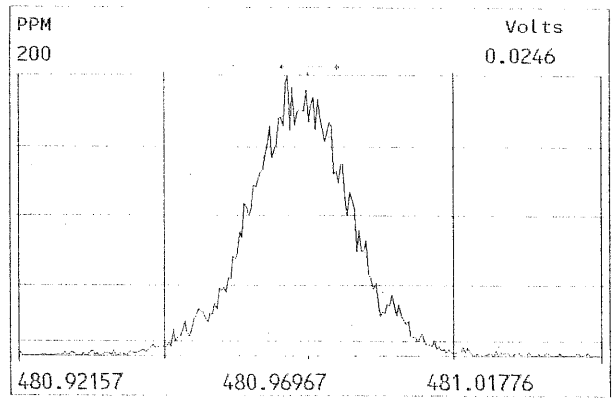
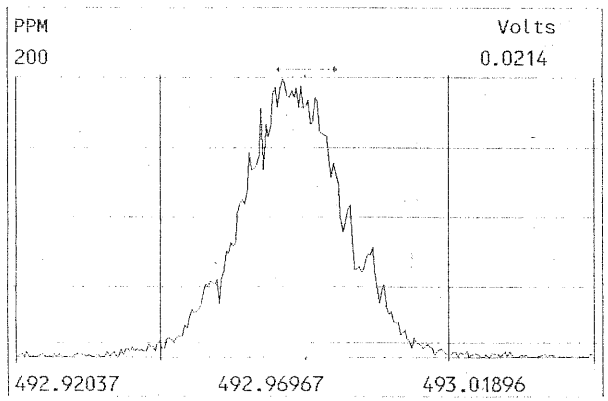
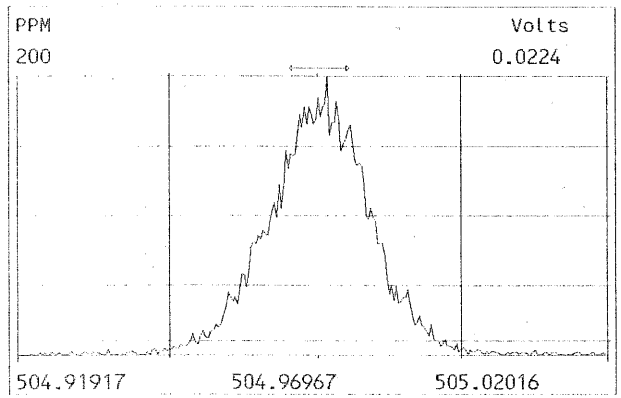
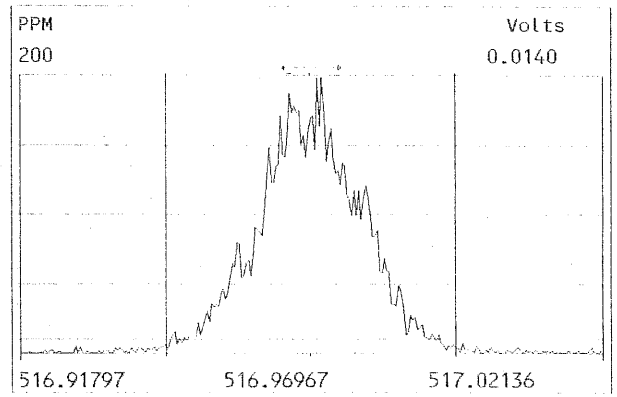




Peak Locate Examination: 7-NOV-2020:22:42 File:07NOV20Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK



Peak Locate Examination: 7-NOV-2020:22:45 File:07NOV20Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK



Peak Locate Examination: 7-NOV-2020:22:47 File:07NOV20Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK