February 17, 2017

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 **10398**. These results correspond to your project number **LY15160310**. Seven SPME/Hexane samples were received on 1/20/2017 in good condition. These SPME/hexane samples were analyzed following EPA Method 1668C for all 209 polychlorinated biphenyls (PCBs). The total PCB concentration is listed in the upper right hand corner of the first data page (Page 1 of 3) of each EPA Method 1668C sample. A turnaround time of fifteen business days was requested for this project **10398**.

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, 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 **10398**, please feel free to contact me at 916-934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Daniel P. Vickers

Daniel P. Vickers
Vice President

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **10398**

Received on: **01/20/2017** Project Due: **02/13/2017** Storage: **R3**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
10398-001-SA	0	LY15160310	LDW-BA-SU-ENR+AC-CA-S010	EPA 1668 PCB	Solvent	01/18/2017	08:28 am	01/18/2018
10398-002-SA	0	LY15160310	LDW-BA-SU-ENR+AC-CB-S010	EPA 1668 PCB	Solvent	01/18/2017	08:46 am	01/18/2018
10398-003-SA	0	LY15160310	LDW-BA-SU-ENR+AC-CC-S010	EPA 1668 PCB	Solvent	01/18/2017	09:10 am	01/18/2018
10398-004-SA	0	LY15160310	LDW-BA-SU-ENR-CA-S010	EPA 1668 PCB	Solvent	01/18/2017	10:58 am	01/18/2018
10398-005-SA	0	LY15160310	LDW-BA-SU-ENR-CB-S010	EPA 1668 PCB	Solvent	01/18/2017	11:17 am	01/18/2018
10398-006-SA	0	LY15160310	LDW-BA-SU-ENR-CC-S010	EPA 1668 PCB	Solvent	01/18/2017	11:36 am	01/18/2018
10398-007-SA	0	LY15160310	LDW-BA-SU-S010-LCB-EXSITU	EPA 1668 PCB	Solvent	01/18/2017	12:26 pm	01/18/2018

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10398-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017
Total Conc: 0.0

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-1	ND	3.99		PCB-54	ND	3.65	
PCB-2	ND	5.04		PCB-55	ND	3.76	
PCB-3	ND	5.00		PCB-56/60	ND	6.66	C
PCB-4	ND	8.60		PCB-57	ND	3.86	
PCB-5	ND	7.23		PCB-58	ND	3.67	
PCB-6	ND	7.55		PCB-61/70	ND	3.53	C
PCB-7	ND	7.35		PCB-62	ND	4.30	
PCB-8	ND	8.38		PCB-63	ND	3.81	
PCB-9	ND	7.83		PCB-65	ND	3.83	
PCB-10	ND	8.25		PCB-66/76	ND	3.67	C
PCB-11	ND	8.58		PCB-67	ND	4.21	
PCB-12	ND	8.22		PCB-68	ND	3.64	
PCB-13	ND	8.61		PCB-73	ND	4.27	
PCB-14	ND	8.07		PCB-74	ND	3.72	
PCB-15	ND	8.82		PCB-77	ND	7.79	
PCB-16	ND	4.67		PCB-78	ND	6.89	
PCB-17	ND	5.02		PCB-79	ND	6.52	
PCB-18	ND	5.45		PCB-80	ND	3.39	
PCB-19	ND	5.39		PCB-81	ND	6.06	
PCB-20/21/33	ND	5.84	C	PCB-82	ND	8.25	
PCB-22	ND	5.93		PCB-83/112	ND	6.15	C
PCB-23	ND	5.57		PCB-84/92	ND	6.52	C
PCB-24	ND	3.84		PCB-85/116	ND	5.82	C
PCB-25	ND	5.07		PCB-86	ND	6.33	
PCB-26	ND	6.23		PCB-87/117/125	ND	5.44	C
PCB-27	ND	3.94		PCB-88/91	ND	8.02	C
PCB-28	ND	5.15		PCB-89	ND	7.12	
PCB-29	ND	6.15		PCB-90/101	ND	6.10	C
PCB-30	ND	3.79		PCB-93	ND	9.11	
PCB-31	ND	6.12		PCB-94	ND	9.28	
PCB-32	ND	4.30		PCB-95	ND	8.61	
PCB-34	ND	7.07		PCB-96	ND	6.43	
PCB-35	ND	7.15		PCB-97	ND	5.60	
PCB-36	ND	6.61		PCB-98/102	ND	7.32	C
PCB-37	ND	6.06		PCB-99	ND	5.85	
PCB-38	ND	6.33		PCB-100	ND	7.76	
PCB-39	ND	6.45		PCB-103	ND	7.72	
PCB-40	ND	6.52		PCB-104	ND	5.99	
PCB-41/64/71/72	ND	3.87	C	PCB-105	ND	5.82	
PCB-42/59	ND	4.17	C	PCB-107/108	ND	5.66	C
PCB-43/49	ND	5.05	C	PCB-109	ND	5.10	
PCB-44	ND	5.65		PCB-110	ND	4.84	
PCB-45	ND	5.56		PCB-111/115	ND	4.45	C
PCB-46	ND	5.87		PCB-113	ND	5.14	
PCB-47	ND	3.96		PCB-114	ND	5.23	
PCB-48/75	ND	4.01	C	PCB-118/106	ND	5.72	C
PCB-50	ND	4.93		PCB-119	ND	4.78	
PCB-51	ND	4.82		PCB-120	ND	4.62	
PCB-52/69	ND	3.80	C	PCB-121	ND	6.84	
PCB-53	ND	4.92		PCB-122	ND	5.85	

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EPA Method 1668
PCBs

FAL ID: 10398-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-123	ND	4.49		PCB-170	ND	6.99	
PCB-124	ND	5.38		PCB-171	ND	6.04	
PCB-126	ND	7.86		PCB-172	ND	6.45	
PCB-127	ND	6.31		PCB-173	ND	6.64	
PCB-128/162	ND	6.48	C	PCB-174	ND	5.23	
PCB-129	ND	8.57		PCB-175	ND	5.61	
PCB-130	ND	9.25		PCB-176	ND	4.35	
PCB-131/133	ND	6.99	C	PCB-177	ND	6.37	
PCB-132/161	ND	6.14	C	PCB-178	ND	5.95	
PCB-134/143	ND	7.14	C	PCB-179	ND	4.17	
PCB-135	ND	7.40		PCB-180	ND	5.05	
PCB-136	ND	4.06		PCB-181	ND	6.74	
PCB-137	ND	6.57		PCB-182/187	ND	5.30	C
PCB-138/163/164	ND	5.44	C	PCB-183	ND	5.33	
PCB-139/149	ND	6.51	C	PCB-184	ND	4.03	
PCB-140	ND	6.55		PCB-185	ND	5.78	
PCB-141	ND	7.07		PCB-186	ND	4.32	
PCB-142	ND	8.16		PCB-188	ND	4.53	
PCB-144	ND	6.98		PCB-189	ND	4.68	
PCB-145	ND	4.24		PCB-190	ND	5.12	
PCB-146/165	ND	5.94	C	PCB-191	ND	4.78	
PCB-147	ND	6.30		PCB-192	ND	5.01	
PCB-148	ND	5.86		PCB-193	ND	4.58	
PCB-150	ND	4.14		PCB-194	ND	8.90	
PCB-151	ND	7.32		PCB-195	ND	9.47	
PCB-152	ND	4.19		PCB-196/203	ND	7.34	C
PCB-153	ND	6.63		PCB-197	ND	5.40	
PCB-154	ND	4.83		PCB-198	ND	8.87	
PCB-155	ND	3.74		PCB-199	ND	7.26	
PCB-156	ND	5.79		PCB-200	ND	5.61	
PCB-157	ND	6.10		PCB-201	ND	5.30	
PCB-158/160	ND	5.46	C	PCB-202	ND	5.50	
PCB-159	ND	5.59		PCB-204	ND	5.84	
PCB-166	ND	5.57		PCB-205	ND	6.91	
PCB-167	ND	5.85		PCB-206	ND	8.86	
PCB-168	ND	5.44		PCB-207	ND	6.03	
PCB-169	ND	7.64		PCB-208	ND	5.40	
				PCB-209	ND	8.95	

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EPA Method 1668
PCBs

FAL ID: 10398-001-MB
Client ID: Method Blank
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	95.6	5.00 - 145	
13C-PCB-3	94.6	5.00 - 145	
13C-PCB-4	99.5	5.00 - 145	
13C-PCB-15	95.2	5.00 - 145	
13C-PCB-19	96.5	5.00 - 145	
13C-PCB-37	101	5.00 - 145	
13C-PCB-54	103	5.00 - 145	
13C-PCB-77	102	10.0 - 145	
13C-PCB-81	101	10.0 - 145	
13C-PCB-104	100	10.0 - 145	
13C-PCB-105	101	10.0 - 145	
13C-PCB-114	101	10.0 - 145	
13C-PCB-118	103	10.0 - 145	
13C-PCB-123	104	10.0 - 145	
13C-PCB-126	103	10.0 - 145	
13C-PCB-155	97.9	10.0 - 145	
13C-PCB-156	102	10.0 - 145	
13C-PCB-157	105	10.0 - 145	
13C-PCB-167	101	10.0 - 145	
13C-PCB-169	102	10.0 - 145	
13C-PCB-188	95.8	10.0 - 145	
13C-PCB-189	103	10.0 - 145	
13C-PCB-202	95.3	10.0 - 145	
13C-PCB-205	106	10.0 - 145	
13C-PCB-206	99.0	10.0 - 145	
13C-PCB-208	101	10.0 - 145	
13C-PCB-209	97.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	103	5.00 - 145	
13C-PCB-111	98.6	10.0 - 145	
13C-PCB-178	94.5	10.0 - 145	

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

Analyst: _____

Date: 2/17/2017

Reviewed By: _____

Date: 2/17/2017

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EPA Method 1668
PCBs

FAL ID: 10398-001-OPR
Client ID: OPR
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: ng/ml

Acquired: 01-31-2017

Compound	% Recovery	QC Limits	Qual
PCB-1	112	60.0 - 135	
PCB-3	105	60.0 - 135	
PCB-4	114	60.0 - 135	
PCB-15	104	60.0 - 135	
PCB-19	106	60.0 - 135	
PCB-37	102	60.0 - 135	
PCB-54	110	60.0 - 135	
PCB-77	111	60.0 - 135	
PCB-81	110	60.0 - 135	
PCB-104	112	60.0 - 135	
PCB-105	106	60.0 - 135	
PCB-114	103	60.0 - 135	
PCB-118/106	116	60.0 - 135	
PCB-123	91.4	60.0 - 135	
PCB-126	106	60.0 - 135	
PCB-155	110	60.0 - 135	
PCB-156	109	60.0 - 135	
PCB-157	106	60.0 - 135	
PCB-167	112	60.0 - 135	
PCB-169	116	60.0 - 135	
PCB-188	109	60.0 - 135	
PCB-189	111	60.0 - 135	
PCB-202	121	60.0 - 135	
PCB-205	107	60.0 - 135	
PCB-206	110	60.0 - 135	
PCB-208	109	60.0 - 135	
PCB-209	111	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	93.6	15.0 - 145	
13C-PCB-3	94.2	15.0 - 145	
13C-PCB-4	96.6	15.0 - 145	
13C-PCB-15	91.9	15.0 - 145	
13C-PCB-19	95.7	15.0 - 145	
13C-PCB-37	98.3	15.0 - 145	
13C-PCB-54	95.9	15.0 - 145	
13C-PCB-77	95.6	40.0 - 145	
13C-PCB-81	95.0	40.0 - 145	
13C-PCB-104	96.9	40.0 - 145	
13C-PCB-105	98.1	40.0 - 145	
13C-PCB-114	99.2	40.0 - 145	
13C-PCB-118	102	40.0 - 145	
13C-PCB-123	98.4	40.0 - 145	
13C-PCB-126	98.0	40.0 - 145	
13C-PCB-155	95.8	40.0 - 145	
13C-PCB-156	93.8	40.0 - 145	
13C-PCB-157	101	40.0 - 145	
13C-PCB-167	95.6	40.0 - 145	
13C-PCB-169	92.4	40.0 - 145	
13C-PCB-188	96.1	40.0 - 145	
13C-PCB-189	94.1	40.0 - 145	
13C-PCB-202	91.3	40.0 - 145	
13C-PCB-205	98.3	40.0 - 145	
13C-PCB-206	97.3	40.0 - 145	
13C-PCB-208	97.2	40.0 - 145	
13C-PCB-209	94.7	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	103	15.0 - 145	
13C-PCB-111	95.8	40.0 - 145	
13C-PCB-178	94.3	40.0 - 145	

Analyst: _____

Date: 2/17/2017

Reviewed By: _____

Date: 2/17/2017

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10398-001-SA
Client ID: LDW-BA-SU-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017
Total Conc: 228000

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-1	59.2	-		PCB-54	52.4	-	
PCB-2	ND	5.65		PCB-55	163	-	
PCB-3	17.4	-	J	PCB-56/60	2410	-	C
PCB-4	1210	-		PCB-57	89.5	-	
PCB-5	569	-		PCB-58	67.6	-	
PCB-6	1030	-		PCB-61/70	5460	-	C
PCB-7	156	-		PCB-62	ND	9.73	
PCB-8	2090	-		PCB-63	335	-	
PCB-9	166	-		PCB-65	ND	8.67	
PCB-10	258	-		PCB-66/76	5290	-	C
PCB-11	71.9	-		PCB-67	246	-	
PCB-12	65.7	-		PCB-68	106	-	
PCB-13	78.0	-		PCB-73	ND	9.68	
PCB-14	135	-		PCB-74	2770	-	
PCB-15	514	-		PCB-77	192	-	
PCB-16	2780	-		PCB-78	2230	-	
PCB-17	5560	-		PCB-79	69.4	-	
PCB-18	12400	-		PCB-80	ND	7.67	
PCB-19	1190	-		PCB-81	53.7	-	
PCB-20/21/33	4650	-	C	PCB-82	590	-	
PCB-22	2500	-		PCB-83/112	373	-	C
PCB-23	ND	9.52		PCB-84/92	3550	-	C
PCB-24	520	-		PCB-85/116	725	-	C
PCB-25	1750	-		PCB-86	ND	8.55	
PCB-26	3490	-		PCB-87/117/125	1770	-	C
PCB-27	390	-		PCB-88/91	1270	-	C
PCB-28	8320	-		PCB-89	120	-	
PCB-29	65.5	-		PCB-90/101	6670	-	C
PCB-30	ND	3.82		PCB-93	ND	7.56	
PCB-31	8190	-		PCB-94	60.3	-	
PCB-32	3930	-		PCB-95	8270	-	
PCB-34	143	-		PCB-96	117	-	
PCB-35	47.4	-		PCB-97	1520	-	
PCB-36	1020	-		PCB-98/102	ND	6.07	C
PCB-37	780	-		PCB-99	2950	-	
PCB-38	63.5	-		PCB-100	59.3	-	
PCB-39	16.6	-	J	PCB-103	179	-	
PCB-40	1840	-		PCB-104	2160	-	
PCB-41/64/71/72	7580	-	C	PCB-105	920	-	
PCB-42/59	3620	-	C	PCB-107/108	290	-	C
PCB-43/49	11100	-	C	PCB-109	ND	6.89	
PCB-44	10300	-		PCB-110	5680	-	
PCB-45	2390	-		PCB-111/115	64.6	-	C
PCB-46	985	-		PCB-113	ND	6.94	
PCB-47	2680	-		PCB-114	66.8	-	
PCB-48/75	2260	-	C	PCB-118/106	ND	10.9	C
PCB-50	75.1	-		PCB-119	218	-	
PCB-51	717	-		PCB-120	ND	6.25	
PCB-52/69	12300	-	C	PCB-121	3640	-	
PCB-53	2390	-		PCB-122	39.9	-	

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EPA Method 1668
PCBs

FAL ID: 10398-001-SA
Client ID: LDW-BA-SU-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-123	38.3	-		PCB-170	322	-	
PCB-124	112	-		PCB-171	112	-	
PCB-126	ND	14.0		PCB-172	148	-	
PCB-127	ND	12.3		PCB-173	ND	8.47	
PCB-128/162	344	-	C	PCB-174	409	-	
PCB-129	127	-		PCB-175	21.7	-	
PCB-130	237	-		PCB-176	89.9	-	
PCB-131/133	96.7	-	C	PCB-177	279	-	
PCB-132/161	991	-	C	PCB-178	114	-	
PCB-134/143	213	-	C	PCB-179	289	-	
PCB-135	612	-		PCB-180	690	-	
PCB-136	781	-		PCB-181	ND	8.59	
PCB-137	93.0	-		PCB-182/187	604	-	C
PCB-138/163/164	2330	-	C	PCB-183	263	-	
PCB-139/149	3080	-	C	PCB-184	5480	-	
PCB-140	37.6	-		PCB-185	52.7	-	
PCB-141	473	-		PCB-186	ND	5.51	
PCB-142	3800	-		PCB-188	ND	6.03	
PCB-144	170	-		PCB-189	12.5	-	J
PCB-145	ND	5.39		PCB-190	75.0	-	
PCB-146/165	479	-	C	PCB-191	24.7	-	
PCB-147	69.2	-		PCB-192	4020	-	
PCB-148	ND	7.45		PCB-193	52.8	-	
PCB-150	ND	5.25		PCB-194	85.6	-	
PCB-151	997	-		PCB-195	39.9	-	
PCB-152	ND	5.32		PCB-196/203	141	-	C
PCB-153	2940	-		PCB-197	73.2	-	
PCB-154	103	-		PCB-198	ND	8.60	
PCB-155	4140	-		PCB-199	126	-	
PCB-156	169	-		PCB-200	27.3	-	
PCB-157	37.5	-		PCB-201	ND	5.14	
PCB-158/160	276	-	C	PCB-202	35.8	-	
PCB-159	16.3	-	J	PCB-204	8580	-	
PCB-166	ND	9.04		PCB-205	ND	6.73	
PCB-167	67.8	-		PCB-206	27.1	-	
PCB-168	ND	8.81		PCB-207	40.8	-	
PCB-169	ND	10.8		PCB-208	10.4	-	J
				PCB-209	42.7	-	

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10398-001-SA
Client ID: LDW-BA-SU-ENR+AC-CA-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	87.9	5.00 - 145	
13C-PCB-3	89.4	5.00 - 145	
13C-PCB-4	93.1	5.00 - 145	
13C-PCB-15	91.3	5.00 - 145	
13C-PCB-19	93.3	5.00 - 145	
13C-PCB-37	100	5.00 - 145	
13C-PCB-54	91.0	5.00 - 145	
13C-PCB-77	102	10.0 - 145	
13C-PCB-81	104	10.0 - 145	
13C-PCB-104	96.2	10.0 - 145	
13C-PCB-105	99.1	10.0 - 145	
13C-PCB-114	101	10.0 - 145	
13C-PCB-118	101	10.0 - 145	
13C-PCB-123	95.1	10.0 - 145	
13C-PCB-126	105	10.0 - 145	
13C-PCB-155	92.8	10.0 - 145	
13C-PCB-156	98.5	10.0 - 145	
13C-PCB-157	103	10.0 - 145	
13C-PCB-167	98.4	10.0 - 145	
13C-PCB-169	108	10.0 - 145	
13C-PCB-188	90.7	10.0 - 145	
13C-PCB-189	103	10.0 - 145	
13C-PCB-202	88.2	10.0 - 145	
13C-PCB-205	99.0	10.0 - 145	
13C-PCB-206	92.5	10.0 - 145	
13C-PCB-208	92.3	10.0 - 145	
13C-PCB-209	90.2	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	99.9	5.00 - 145	
13C-PCB-111	98.9	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: _____

Date: 2/17/2017

Reviewed By: _____

Date: 2/17/2017

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EPA Method 1668
PCBs

FAL ID: 10398-002-SA
Client ID: LDW-BA-SU-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017
Total Conc: 241000

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-1	52.3	-		PCB-54	49.4	-	
PCB-2	ND	5.20		PCB-55	234	-	
PCB-3	9.35	-	J	PCB-56/60	3070	-	C
PCB-4	1130	-		PCB-57	83.1	-	
PCB-5	ND	9.47		PCB-58	46.1	-	
PCB-6	1150	-		PCB-61/70	7010	-	C
PCB-7	135	-		PCB-62	ND	11.6	
PCB-8	2630	-		PCB-63	378	-	
PCB-9	143	-		PCB-65	ND	10.3	
PCB-10	174	-		PCB-66/76	5990	-	C
PCB-11	47.2	-		PCB-67	318	-	
PCB-12	44.3	-		PCB-68	93.8	-	
PCB-13	70.9	-		PCB-73	ND	11.5	
PCB-14	86.5	-		PCB-74	3240	-	
PCB-15	389	-		PCB-77	249	-	
PCB-16	2810	-		PCB-78	1870	-	
PCB-17	5460	-		PCB-79	67.0	-	
PCB-18	12900	-		PCB-80	ND	9.15	
PCB-19	1120	-		PCB-81	125	-	
PCB-20/21/33	4150	-	C	PCB-82	822	-	
PCB-22	2380	-		PCB-83/112	418	-	C
PCB-23	18.7	-	J	PCB-84/92	3910	-	C
PCB-24	403	-		PCB-85/116	993	-	C
PCB-25	1030	-		PCB-86	ND	11.8	
PCB-26	2500	-		PCB-87/117/125	2450	-	C
PCB-27	525	-		PCB-88/91	1490	-	C
PCB-28	7620	-		PCB-89	144	-	
PCB-29	64.5	-		PCB-90/101	7990	-	C
PCB-30	ND	3.72		PCB-93	ND	7.98	
PCB-31	7860	-		PCB-94	77.5	-	
PCB-32	3790	-		PCB-95	9960	-	
PCB-34	130	-		PCB-96	118	-	
PCB-35	43.3	-		PCB-97	1930	-	
PCB-36	756	-		PCB-98/102	ND	6.41	C
PCB-37	677	-		PCB-99	3340	-	
PCB-38	65.8	-		PCB-100	53.0	-	
PCB-39	ND	9.48		PCB-103	168	-	
PCB-40	1810	-		PCB-104	2010	-	
PCB-41/64/71/72	8100	-	C	PCB-105	1360	-	
PCB-42/59	3540	-	C	PCB-107/108	353	-	C
PCB-43/49	10900	-	C	PCB-109	ND	9.53	
PCB-44	10400	-		PCB-110	6920	-	
PCB-45	2440	-		PCB-111/115	120	-	C
PCB-46	1000	-		PCB-113	ND	9.60	
PCB-47	2680	-		PCB-114	99.6	-	
PCB-48/75	2450	-	C	PCB-118/106	ND	10.8	C
PCB-50	71.2	-		PCB-119	207	-	
PCB-51	753	-		PCB-120	ND	8.65	
PCB-52/69	13200	-	C	PCB-121	3380	-	
PCB-53	2420	-		PCB-122	56.6	-	

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EPA Method 1668
PCBs

FAL ID: 10398-002-SA
Client ID: LDW-BA-SU-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-123	52.0	-		PCB-170	519	-	
PCB-124	169	-		PCB-171	187	-	
PCB-126	19.1	-	J	PCB-172	189	-	
PCB-127	ND	11.5		PCB-173	ND	8.27	
PCB-128/162	484	-	C	PCB-174	655	-	
PCB-129	195	-		PCB-175	29.0	-	
PCB-130	326	-		PCB-176	126	-	
PCB-131/133	112	-	C	PCB-177	424	-	
PCB-132/161	1260	-	C	PCB-178	153	-	
PCB-134/143	270	-	C	PCB-179	410	-	
PCB-135	668	-		PCB-180	1080	-	
PCB-136	1060	-		PCB-181	ND	8.40	
PCB-137	130	-		PCB-182/187	852	-	C
PCB-138/163/164	3170	-	C	PCB-183	422	-	
PCB-139/149	3830	-	C	PCB-184	5160	-	
PCB-140	47.4	-		PCB-185	83.6	-	
PCB-141	676	-		PCB-186	ND	5.39	
PCB-142	3450	-		PCB-188	ND	5.96	
PCB-144	308	-		PCB-189	19.2	-	J
PCB-145	ND	6.08		PCB-190	111	-	
PCB-146/165	566	-	C	PCB-191	25.6	-	
PCB-147	87.6	-		PCB-192	3590	-	
PCB-148	ND	8.40		PCB-193	78.4	-	
PCB-150	ND	5.92		PCB-194	141	-	
PCB-151	1210	-		PCB-195	71.1	-	
PCB-152	ND	6.00		PCB-196/203	243	-	C
PCB-153	3760	-		PCB-197	79.2	-	
PCB-154	108	-		PCB-198	ND	8.57	
PCB-155	4190	-		PCB-199	215	-	
PCB-156	272	-		PCB-200	37.8	-	
PCB-157	54.0	-		PCB-201	27.5	-	
PCB-158/160	401	-	C	PCB-202	57.2	-	
PCB-159	32.0	-		PCB-204	7610	-	
PCB-166	ND	9.66		PCB-205	ND	7.67	
PCB-167	103	-		PCB-206	35.2	-	
PCB-168	ND	9.43		PCB-207	38.3	-	
PCB-169	ND	11.6		PCB-208	13.2	-	J
				PCB-209	40.0	-	

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EPA Method 1668
PCBs

FAL ID: 10398-002-SA
Client ID: LDW-BA-SU-ENR+AC-CB-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.1	5.00 - 145	
13C-PCB-3	89.8	5.00 - 145	
13C-PCB-4	94.4	5.00 - 145	
13C-PCB-15	95.3	5.00 - 145	
13C-PCB-19	95.4	5.00 - 145	
13C-PCB-37	109	5.00 - 145	
13C-PCB-54	96.6	5.00 - 145	
13C-PCB-77	116	10.0 - 145	
13C-PCB-81	117	10.0 - 145	
13C-PCB-104	99.6	10.0 - 145	
13C-PCB-105	104	10.0 - 145	
13C-PCB-114	104	10.0 - 145	
13C-PCB-118	104	10.0 - 145	
13C-PCB-123	102	10.0 - 145	
13C-PCB-126	114	10.0 - 145	
13C-PCB-155	93.0	10.0 - 145	
13C-PCB-156	104	10.0 - 145	
13C-PCB-157	109	10.0 - 145	
13C-PCB-167	103	10.0 - 145	
13C-PCB-169	114	10.0 - 145	
13C-PCB-188	90.6	10.0 - 145	
13C-PCB-189	107	10.0 - 145	
13C-PCB-202	89.9	10.0 - 145	
13C-PCB-205	102	10.0 - 145	
13C-PCB-206	95.4	10.0 - 145	
13C-PCB-208	92.4	10.0 - 145	
13C-PCB-209	90.5	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	106	5.00 - 145	
13C-PCB-111	107	10.0 - 145	
13C-PCB-178	89.3	10.0 - 145	

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

Analyst: _____

Date: 2/17/2017

Reviewed By: _____

Date: 2/17/2017

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EPA Method 1668
PCBs

FAL ID: 10398-003-SA
Client ID: LDW-BA-SU-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017
Total Conc: 250000

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-1	46.4	-		PCB-54	58.2	-	
PCB-2	ND	6.22		PCB-55	139	-	
PCB-3	11.3	-	J	PCB-56/60	2710	-	C
PCB-4	1570	-		PCB-57	63.8	-	
PCB-5	ND	5.94		PCB-58	63.5	-	
PCB-6	1280	-		PCB-61/70	6220	-	C
PCB-7	195	-		PCB-62	ND	10.0	
PCB-8	3390	-		PCB-63	332	-	
PCB-9	208	-		PCB-65	ND	8.95	
PCB-10	229	-		PCB-66/76	5420	-	C
PCB-11	48.4	-		PCB-67	260	-	
PCB-12	82.0	-		PCB-68	94.3	-	
PCB-13	85.9	-		PCB-73	ND	9.99	
PCB-14	211	-		PCB-74	2930	-	
PCB-15	514	-		PCB-77	240	-	
PCB-16	3590	-		PCB-78	2600	-	
PCB-17	6520	-		PCB-79	65.2	-	
PCB-18	15600	-		PCB-80	ND	7.92	
PCB-19	1480	-		PCB-81	121	-	
PCB-20/21/33	4490	-	C	PCB-82	715	-	
PCB-22	2560	-		PCB-83/112	389	-	C
PCB-23	24.3	-		PCB-84/92	3630	-	C
PCB-24	454	-		PCB-85/116	914	-	C
PCB-25	968	-		PCB-86	ND	12.8	
PCB-26	2410	-		PCB-87/117/125	2260	-	C
PCB-27	661	-		PCB-88/91	1220	-	C
PCB-28	7280	-		PCB-89	125	-	
PCB-29	71.8	-		PCB-90/101	7790	-	C
PCB-30	ND	4.36		PCB-93	ND	7.84	
PCB-31	9480	-		PCB-94	67.8	-	
PCB-32	4400	-		PCB-95	9130	-	
PCB-34	123	-		PCB-96	119	-	
PCB-35	58.4	-		PCB-97	1810	-	
PCB-36	1250	-		PCB-98/102	ND	6.30	C
PCB-37	730	-		PCB-99	3190	-	
PCB-38	56.5	-		PCB-100	64.0	-	
PCB-39	ND	12.9		PCB-103	185	-	
PCB-40	1770	-		PCB-104	2540	-	
PCB-41/64/71/72	7770	-	C	PCB-105	1130	-	
PCB-42/59	3220	-	C	PCB-107/108	318	-	C
PCB-43/49	10600	-	C	PCB-109	ND	10.3	
PCB-44	10000	-		PCB-110	6430	-	
PCB-45	2580	-		PCB-111/115	84.7	-	C
PCB-46	1050	-		PCB-113	ND	10.4	
PCB-47	2340	-		PCB-114	96.2	-	
PCB-48/75	2420	-	C	PCB-118/106	ND	9.81	C
PCB-50	76.1	-		PCB-119	204	-	
PCB-51	722	-		PCB-120	ND	9.38	
PCB-52/69	13000	-	C	PCB-121	4350	-	
PCB-53	2650	-		PCB-122	56.5	-	

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EPA Method 1668
PCBs

FAL ID: 10398-003-SA
Client ID: LDW-BA-SU-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-123	46.5	-		PCB-170	424	-	
PCB-124	154	-		PCB-171	141	-	
PCB-126	ND	11.3		PCB-172	185	-	
PCB-127	ND	10.2		PCB-173	ND	8.52	
PCB-128/162	435	-	C	PCB-174	502	-	
PCB-129	175	-		PCB-175	27.9	-	
PCB-130	304	-		PCB-176	100	-	
PCB-131/133	127	-	C	PCB-177	337	-	
PCB-132/161	1110	-	C	PCB-178	137	-	
PCB-134/143	264	-	C	PCB-179	341	-	
PCB-135	663	-		PCB-180	820	-	
PCB-136	997	-		PCB-181	ND	8.65	
PCB-137	129	-		PCB-182/187	734	-	C
PCB-138/163/164	2840	-	C	PCB-183	343	-	
PCB-139/149	3600	-	C	PCB-184	6370	-	
PCB-140	40.0	-		PCB-185	74.9	-	
PCB-141	610	-		PCB-186	ND	5.55	
PCB-142	4320	-		PCB-188	ND	5.96	
PCB-144	216	-		PCB-189	15.8	-	J
PCB-145	ND	6.71		PCB-190	81.5	-	
PCB-146/165	555	-	C	PCB-191	19.3	-	J
PCB-147	84.2	-		PCB-192	4660	-	
PCB-148	ND	9.27		PCB-193	60.7	-	
PCB-150	18.1	-	J	PCB-194	102	-	
PCB-151	1130	-		PCB-195	48.1	-	
PCB-152	ND	6.62		PCB-196/203	177	-	C
PCB-153	3590	-		PCB-197	82.2	-	
PCB-154	112	-		PCB-198	ND	8.83	
PCB-155	5020	-		PCB-199	154	-	
PCB-156	235	-		PCB-200	27.5	-	
PCB-157	45.3	-		PCB-201	24.0	-	
PCB-158/160	369	-	C	PCB-202	38.0	-	
PCB-159	26.1	-		PCB-204	9990	-	
PCB-166	14.8	-	J	PCB-205	ND	7.05	
PCB-167	98.5	-		PCB-206	27.9	-	
PCB-168	ND	9.94		PCB-207	46.9	-	
PCB-169	ND	11.9		PCB-208	10.9	-	J
				PCB-209	56.7	-	

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10398-003-SA
Client ID: LDW-BA-SU-ENR+AC-CC-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.7	5.00 - 145	
13C-PCB-3	89.5	5.00 - 145	
13C-PCB-4	96.6	5.00 - 145	
13C-PCB-15	95.9	5.00 - 145	
13C-PCB-19	95.0	5.00 - 145	
13C-PCB-37	108	5.00 - 145	
13C-PCB-54	96.6	5.00 - 145	
13C-PCB-77	112	10.0 - 145	
13C-PCB-81	110	10.0 - 145	
13C-PCB-104	101	10.0 - 145	
13C-PCB-105	106	10.0 - 145	
13C-PCB-114	107	10.0 - 145	
13C-PCB-118	104	10.0 - 145	
13C-PCB-123	108	10.0 - 145	
13C-PCB-126	119	10.0 - 145	
13C-PCB-155	90.0	10.0 - 145	
13C-PCB-156	111	10.0 - 145	
13C-PCB-157	111	10.0 - 145	
13C-PCB-167	106	10.0 - 145	
13C-PCB-169	118	10.0 - 145	
13C-PCB-188	93.4	10.0 - 145	
13C-PCB-189	110	10.0 - 145	
13C-PCB-202	92.0	10.0 - 145	
13C-PCB-205	101	10.0 - 145	
13C-PCB-206	93.4	10.0 - 145	
13C-PCB-208	92.2	10.0 - 145	
13C-PCB-209	89.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	106	5.00 - 145	
13C-PCB-111	105	10.0 - 145	
13C-PCB-178	92.7	10.0 - 145	

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

Analyst: _____

Date: 2/17/2017

Reviewed By: _____

Date: 2/17/2017

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EPA Method 1668
PCBs

FAL ID: 10398-004-SA
Client ID: LDW-BA-SU-ENR-CA-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017
Total Conc: 136000

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-1	62.1	-		PCB-54	31.8	-	
PCB-2	7.39	-	J	PCB-55	125	-	
PCB-3	10.5	-	J	PCB-56/60	1040	-	C
PCB-4	929	-		PCB-57	35.2	-	
PCB-5	ND	14.4		PCB-58	28.8	-	
PCB-6	489	-		PCB-61/70	2510	-	C
PCB-7	69.7	-		PCB-62	ND	10.7	
PCB-8	1350	-		PCB-63	141	-	
PCB-9	82.9	-		PCB-65	ND	9.52	
PCB-10	113	-		PCB-66/76	2330	-	C
PCB-11	39.8	-		PCB-67	110	-	
PCB-12	27.6	-		PCB-68	68.5	-	
PCB-13	26.8	-		PCB-73	ND	10.6	
PCB-14	243	-		PCB-74	1150	-	
PCB-15	181	-		PCB-77	94.6	-	
PCB-16	1450	-		PCB-78	2640	-	
PCB-17	2480	-		PCB-79	43.4	-	
PCB-18	5940	-		PCB-80	ND	8.42	
PCB-19	690	-		PCB-81	67.7	-	
PCB-20/21/33	1530	-	C	PCB-82	327	-	
PCB-22	861	-		PCB-83/112	215	-	C
PCB-23	ND	14.0		PCB-84/92	2150	-	C
PCB-24	272	-		PCB-85/116	439	-	C
PCB-25	407	-		PCB-86	ND	7.36	
PCB-26	996	-		PCB-87/117/125	1010	-	C
PCB-27	219	-		PCB-88/91	580	-	C
PCB-28	2710	-		PCB-89	70.4	-	
PCB-29	23.6	-		PCB-90/101	4120	-	C
PCB-30	ND	3.37		PCB-93	ND	7.07	
PCB-31	2730	-		PCB-94	36.8	-	
PCB-32	1630	-		PCB-95	5430	-	
PCB-34	53.4	-		PCB-96	74.3	-	
PCB-35	27.3	-		PCB-97	873	-	
PCB-36	1350	-		PCB-98/102	ND	5.68	C
PCB-37	263	-		PCB-99	1890	-	
PCB-38	38.0	-		PCB-100	54.0	-	
PCB-39	ND	16.3		PCB-103	155	-	
PCB-40	704	-		PCB-104	2370	-	
PCB-41/64/71/72	3030	-	C	PCB-105	570	-	
PCB-42/59	1310	-	C	PCB-107/108	194	-	C
PCB-43/49	5430	-	C	PCB-109	ND	5.93	
PCB-44	4140	-		PCB-110	3370	-	
PCB-45	946	-		PCB-111/115	52.5	-	C
PCB-46	391	-		PCB-113	ND	5.97	
PCB-47	1220	-		PCB-114	44.1	-	
PCB-48/75	921	-	C	PCB-118/106	ND	8.11	C
PCB-50	41.4	-		PCB-119	161	-	
PCB-51	374	-		PCB-120	ND	5.38	
PCB-52/69	6300	-	C	PCB-121	4440	-	
PCB-53	1240	-		PCB-122	26.7	-	

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EPA Method 1668
PCBs

FAL ID: 10398-004-SA
Client ID: LDW-BA-SU-ENR-CA-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-123	24.9	-		PCB-170	188	-	
PCB-124	75.2	-		PCB-171	78.2	-	
PCB-126	ND	9.45		PCB-172	154	-	
PCB-127	ND	8.63		PCB-173	ND	7.28	
PCB-128/162	210	-	C	PCB-174	285	-	
PCB-129	71.3	-		PCB-175	12.3	-	J
PCB-130	145	-		PCB-176	52.8	-	
PCB-131/133	69.4	-	C	PCB-177	200	-	
PCB-132/161	640	-	C	PCB-178	77.9	-	
PCB-134/143	147	-	C	PCB-179	214	-	
PCB-135	427	-		PCB-180	478	-	
PCB-136	595	-		PCB-181	ND	7.39	
PCB-137	77.4	-		PCB-182/187	440	-	C
PCB-138/163/164	1480	-	C	PCB-183	183	-	
PCB-139/149	2090	-	C	PCB-184	6420	-	
PCB-140	36.0	-		PCB-185	28.5	-	
PCB-141	291	-		PCB-186	ND	4.74	
PCB-142	4180	-		PCB-188	ND	5.47	
PCB-144	108	-		PCB-189	10.2	-	J
PCB-145	ND	6.18		PCB-190	40.8	-	
PCB-146/165	388	-	C	PCB-191	17.3	-	J
PCB-147	44.5	-		PCB-192	4800	-	
PCB-148	ND	8.54		PCB-193	40.1	-	
PCB-150	ND	6.02		PCB-194	58.2	-	
PCB-151	678	-		PCB-195	27.3	-	
PCB-152	ND	6.10		PCB-196/203	105	-	C
PCB-153	2040	-		PCB-197	85.9	-	
PCB-154	112	-		PCB-198	ND	7.55	
PCB-155	4870	-		PCB-199	91.9	-	
PCB-156	106	-		PCB-200	18.1	-	J
PCB-157	22.1	-		PCB-201	ND	4.51	
PCB-158/160	174	-	C	PCB-202	19.1	-	J
PCB-159	18.4	-	J	PCB-204	10500	-	
PCB-166	ND	7.78		PCB-205	ND	3.49	
PCB-167	42.7	-		PCB-206	16.6	-	J
PCB-168	ND	7.59		PCB-207	45.9	-	
PCB-169	ND	9.06		PCB-208	6.50	-	J
				PCB-209	43.9	-	

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EPA Method 1668
PCBs

FAL ID: 10398-004-SA
Client ID: LDW-BA-SU-ENR-CA-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	81.8	5.00 - 145	
13C-PCB-3	85.9	5.00 - 145	
13C-PCB-4	87.8	5.00 - 145	
13C-PCB-15	88.0	5.00 - 145	
13C-PCB-19	81.5	5.00 - 145	
13C-PCB-37	98.4	5.00 - 145	
13C-PCB-54	89.3	5.00 - 145	
13C-PCB-77	100	10.0 - 145	
13C-PCB-81	101	10.0 - 145	
13C-PCB-104	91.6	10.0 - 145	
13C-PCB-105	95.6	10.0 - 145	
13C-PCB-114	95.9	10.0 - 145	
13C-PCB-118	94.9	10.0 - 145	
13C-PCB-123	93.5	10.0 - 145	
13C-PCB-126	104	10.0 - 145	
13C-PCB-155	81.9	10.0 - 145	
13C-PCB-156	96.0	10.0 - 145	
13C-PCB-157	102	10.0 - 145	
13C-PCB-167	94.6	10.0 - 145	
13C-PCB-169	106	10.0 - 145	
13C-PCB-188	80.1	10.0 - 145	
13C-PCB-189	98.7	10.0 - 145	
13C-PCB-202	78.0	10.0 - 145	
13C-PCB-205	91.1	10.0 - 145	
13C-PCB-206	82.9	10.0 - 145	
13C-PCB-208	81.3	10.0 - 145	
13C-PCB-209	77.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	101	5.00 - 145	
13C-PCB-111	97.6	10.0 - 145	
13C-PCB-178	84.7	10.0 - 145	

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

Analyst: _____

Date: 2/17/2017

Reviewed By: _____

Date: 2/17/2017

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EPA Method 1668
PCBs

FAL ID: 10398-005-SA
Client ID: LDW-BA-SU-ENR-CB-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017
Total Conc: 152000

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-1	54.1	-		PCB-54	28.8	-	
PCB-2	ND	4.65		PCB-55	123	-	
PCB-3	20.8	-		PCB-56/60	1610	-	C
PCB-4	970	-		PCB-57	36.3	-	
PCB-5	ND	15.1		PCB-58	22.2	-	
PCB-6	537	-		PCB-61/70	3660	-	C
PCB-7	85.9	-		PCB-62	ND	11.5	
PCB-8	1800	-		PCB-63	183	-	
PCB-9	83.1	-		PCB-65	ND	10.2	
PCB-10	113	-		PCB-66/76	3160	-	C
PCB-11	40.8	-		PCB-67	156	-	
PCB-12	35.0	-		PCB-68	59.2	-	
PCB-13	27.5	-		PCB-73	ND	11.4	
PCB-14	256	-		PCB-74	1730	-	
PCB-15	259	-		PCB-77	143	-	
PCB-16	1900	-		PCB-78	2480	-	
PCB-17	3180	-		PCB-79	40.7	-	
PCB-18	7460	-		PCB-80	ND	9.06	
PCB-19	744	-		PCB-81	79.8	-	
PCB-20/21/33	2370	-	C	PCB-82	410	-	
PCB-22	1330	-		PCB-83/112	232	-	C
PCB-23	ND	8.67		PCB-84/92	2170	-	C
PCB-24	273	-		PCB-85/116	522	-	C
PCB-25	439	-		PCB-86	ND	7.65	
PCB-26	1050	-		PCB-87/117/125	1300	-	C
PCB-27	272	-		PCB-88/91	513	-	C
PCB-28	3940	-		PCB-89	71.4	-	
PCB-29	42.7	-		PCB-90/101	4440	-	C
PCB-30	ND	3.11		PCB-93	ND	5.61	
PCB-31	4260	-		PCB-94	42.0	-	
PCB-32	2070	-		PCB-95	5680	-	
PCB-34	64.7	-		PCB-96	67.2	-	
PCB-35	40.1	-		PCB-97	1020	-	
PCB-36	1270	-		PCB-98/102	ND	4.50	C
PCB-37	436	-		PCB-99	1870	-	
PCB-38	33.1	-		PCB-100	47.5	-	
PCB-39	ND	10.0		PCB-103	112	-	
PCB-40	959	-		PCB-104	2280	-	
PCB-41/64/71/72	4180	-	C	PCB-105	634	-	
PCB-42/59	1740	-	C	PCB-107/108	194	-	C
PCB-43/49	5840	-	C	PCB-109	ND	6.16	
PCB-44	5470	-		PCB-110	3700	-	
PCB-45	1280	-		PCB-111/115	49.9	-	C
PCB-46	492	-		PCB-113	ND	6.21	
PCB-47	1330	-		PCB-114	53.5	-	
PCB-48/75	1280	-	C	PCB-118/106	ND	7.28	C
PCB-50	39.2	-		PCB-119	132	-	
PCB-51	371	-		PCB-120	ND	5.59	
PCB-52/69	6990	-	C	PCB-121	4410	-	
PCB-53	1230	-		PCB-122	29.6	-	

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EPA Method 1668
PCBs

FAL ID: 10398-005-SA
Client ID: LDW-BA-SU-ENR-CB-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-123	27.7	-		PCB-170	203	-	
PCB-124	91.2	-		PCB-171	81.4	-	
PCB-126	ND	8.51		PCB-172	158	-	
PCB-127	ND	7.96		PCB-173	ND	4.60	
PCB-128/162	240	-	C	PCB-174	272	-	
PCB-129	88.7	-		PCB-175	16.1	-	J
PCB-130	141	-		PCB-176	60.4	-	
PCB-131/133	60.3	-	C	PCB-177	177	-	
PCB-132/161	618	-	C	PCB-178	81.9	-	
PCB-134/143	152	-	C	PCB-179	193	-	
PCB-135	381	-		PCB-180	473	-	
PCB-136	577	-		PCB-181	ND	4.67	
PCB-137	78.0	-		PCB-182/187	422	-	C
PCB-138/163/164	1550	-	C	PCB-183	185	-	
PCB-139/149	2010	-	C	PCB-184	6050	-	
PCB-140	19.6	-		PCB-185	32.8	-	
PCB-141	334	-		PCB-186	ND	3.00	
PCB-142	4010	-		PCB-188	ND	3.37	
PCB-144	115	-		PCB-189	ND	2.98	
PCB-145	ND	3.63		PCB-190	40.7	-	
PCB-146/165	334	-	C	PCB-191	9.95	-	J
PCB-147	46.7	-		PCB-192	4500	-	
PCB-148	ND	5.02		PCB-193	35.8	-	
PCB-150	ND	3.54		PCB-194	58.5	-	
PCB-151	645	-		PCB-195	26.0	-	
PCB-152	ND	3.58		PCB-196/203	104	-	C
PCB-153	2060	-		PCB-197	79.4	-	
PCB-154	81.7	-		PCB-198	ND	6.51	
PCB-155	4820	-		PCB-199	88.0	-	
PCB-156	122	-		PCB-200	ND	4.12	
PCB-157	23.5	-		PCB-201	ND	3.89	
PCB-158/160	195	-	C	PCB-202	23.7	-	
PCB-159	18.4	-	J	PCB-204	9700	-	
PCB-166	ND	5.45		PCB-205	ND	3.03	
PCB-167	53.4	-		PCB-206	17.1	-	J
PCB-168	ND	5.32		PCB-207	45.4	-	
PCB-169	ND	6.19		PCB-208	ND	5.38	
				PCB-209	43.6	-	

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10398-005-SA
Client ID: LDW-BA-SU-ENR-CB-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	88.9	5.00 - 145	
13C-PCB-3	93.7	5.00 - 145	
13C-PCB-4	94.2	5.00 - 145	
13C-PCB-15	98.2	5.00 - 145	
13C-PCB-19	91.2	5.00 - 145	
13C-PCB-37	109	5.00 - 145	
13C-PCB-54	96.3	5.00 - 145	
13C-PCB-77	119	10.0 - 145	
13C-PCB-81	116	10.0 - 145	
13C-PCB-104	96.5	10.0 - 145	
13C-PCB-105	107	10.0 - 145	
13C-PCB-114	105	10.0 - 145	
13C-PCB-118	103	10.0 - 145	
13C-PCB-123	104	10.0 - 145	
13C-PCB-126	118	10.0 - 145	
13C-PCB-155	87.3	10.0 - 145	
13C-PCB-156	108	10.0 - 145	
13C-PCB-157	108	10.0 - 145	
13C-PCB-167	103	10.0 - 145	
13C-PCB-169	117	10.0 - 145	
13C-PCB-188	90.4	10.0 - 145	
13C-PCB-189	107	10.0 - 145	
13C-PCB-202	87.3	10.0 - 145	
13C-PCB-205	101	10.0 - 145	
13C-PCB-206	91.6	10.0 - 145	
13C-PCB-208	90.6	10.0 - 145	
13C-PCB-209	85.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	104	5.00 - 145	
13C-PCB-111	105	10.0 - 145	
13C-PCB-178	90.4	10.0 - 145	

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

Analyst: _____

Date: 2/17/2017

Reviewed By: _____

Date: 2/17/2017

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10398-006-SA
Client ID: LDW-BA-SU-ENR-CC-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017
Total Conc: 268000

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-1	30.4	-		PCB-54	45.6	-	
PCB-2	ND	5.44		PCB-55	223	-	
PCB-3	ND	5.27		PCB-56/60	4340	-	C
PCB-4	1010	-		PCB-57	78.8	-	
PCB-5	ND	17.8		PCB-58	40.8	-	
PCB-6	631	-		PCB-61/70	8760	-	C
PCB-7	123	-		PCB-62	ND	8.09	
PCB-8	2510	-		PCB-63	422	-	
PCB-9	131	-		PCB-65	ND	7.21	
PCB-10	182	-		PCB-66/76	7100	-	C
PCB-11	37.8	-		PCB-67	347	-	
PCB-12	35.5	-		PCB-68	80.1	-	
PCB-13	41.4	-		PCB-73	ND	8.05	
PCB-14	187	-		PCB-74	3990	-	
PCB-15	520	-		PCB-77	358	-	
PCB-16	3030	-		PCB-78	2470	-	
PCB-17	5490	-		PCB-79	74.7	-	
PCB-18	11900	-		PCB-80	ND	6.38	
PCB-19	1040	-		PCB-81	163	-	
PCB-20/21/33	5100	-	C	PCB-82	969	-	
PCB-22	3190	-		PCB-83/112	468	-	C
PCB-23	ND	14.5		PCB-84/92	4370	-	C
PCB-24	500	-		PCB-85/116	1180	-	C
PCB-25	864	-		PCB-86	ND	10.3	
PCB-26	2090	-		PCB-87/117/125	3130	-	C
PCB-27	410	-		PCB-88/91	1580	-	C
PCB-28	9760	-		PCB-89	135	-	
PCB-29	79.0	-		PCB-90/101	9590	-	C
PCB-30	ND	3.35		PCB-93	ND	6.64	
PCB-31	10000	-		PCB-94	73.3	-	
PCB-32	3970	-		PCB-95	11300	-	
PCB-34	118	-		PCB-96	129	-	
PCB-35	54.0	-		PCB-97	2280	-	
PCB-36	1120	-		PCB-98/102	ND	5.33	C
PCB-37	1090	-		PCB-99	3580	-	
PCB-38	73.6	-		PCB-100	63.4	-	
PCB-39	ND	16.8		PCB-103	157	-	
PCB-40	1920	-		PCB-104	2180	-	
PCB-41/64/71/72	8720	-	C	PCB-105	1620	-	
PCB-42/59	3590	-	C	PCB-107/108	384	-	C
PCB-43/49	11100	-	C	PCB-109	ND	8.32	
PCB-44	11000	-		PCB-110	7910	-	
PCB-45	2180	-		PCB-111/115	131	-	C
PCB-46	845	-		PCB-113	ND	8.38	
PCB-47	2770	-		PCB-114	137	-	
PCB-48/75	2600	-	C	PCB-118/106	ND	8.98	C
PCB-50	65.9	-		PCB-119	188	-	
PCB-51	693	-		PCB-120	ND	7.54	
PCB-52/69	14200	-	C	PCB-121	4140	-	
PCB-53	2280	-		PCB-122	72.4	-	

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EPA Method 1668
PCBs

FAL ID: 10398-006-SA
Client ID: LDW-BA-SU-ENR-CC-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-123	83.6	-		PCB-170	408	-	
PCB-124	215	-		PCB-171	160	-	
PCB-126	15.1	-	J	PCB-172	188	-	
PCB-127	ND	9.71		PCB-173	ND	6.63	
PCB-128/162	531	-	C	PCB-174	520	-	
PCB-129	208	-		PCB-175	20.8	-	
PCB-130	365	-		PCB-176	104	-	
PCB-131/133	125	-	C	PCB-177	346	-	
PCB-132/161	1290	-	C	PCB-178	134	-	
PCB-134/143	307	-	C	PCB-179	352	-	
PCB-135	767	-		PCB-180	859	-	
PCB-136	1030	-		PCB-181	ND	6.73	
PCB-137	141	-		PCB-182/187	739	-	C
PCB-138/163/164	3300	-	C	PCB-183	347	-	
PCB-139/149	4050	-	C	PCB-184	6550	-	
PCB-140	32.5	-		PCB-185	75.0	-	
PCB-141	733	-		PCB-186	ND	4.32	
PCB-142	4240	-		PCB-188	ND	4.73	
PCB-144	248	-		PCB-189	13.4	-	J
PCB-145	ND	4.82		PCB-190	80.8	-	
PCB-146/165	569	-	C	PCB-191	23.7	-	
PCB-147	96.3	-		PCB-192	4740	-	
PCB-148	ND	6.66		PCB-193	74.3	-	
PCB-150	15.8	-	J	PCB-194	94.3	-	
PCB-151	1210	-		PCB-195	52.1	-	
PCB-152	ND	4.75		PCB-196/203	180	-	C
PCB-153	3890	-		PCB-197	84.4	-	
PCB-154	95.6	-		PCB-198	ND	7.55	
PCB-155	4760	-		PCB-199	169	-	
PCB-156	282	-		PCB-200	33.0	-	
PCB-157	54.8	-		PCB-201	ND	4.51	
PCB-158/160	431	-	C	PCB-202	36.5	-	
PCB-159	24.0	-		PCB-204	10500	-	
PCB-166	16.6	-	J	PCB-205	ND	4.93	
PCB-167	115	-		PCB-206	23.5	-	
PCB-168	ND	10.7		PCB-207	47.2	-	
PCB-169	ND	12.5		PCB-208	ND	4.98	
				PCB-209	42.5	-	

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10398-006-SA
Client ID: LDW-BA-SU-ENR-CC-S010
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	87.6	5.00 - 145	
13C-PCB-3	89.5	5.00 - 145	
13C-PCB-4	93.8	5.00 - 145	
13C-PCB-15	94.8	5.00 - 145	
13C-PCB-19	87.0	5.00 - 145	
13C-PCB-37	104	5.00 - 145	
13C-PCB-54	95.9	5.00 - 145	
13C-PCB-77	109	10.0 - 145	
13C-PCB-81	112	10.0 - 145	
13C-PCB-104	94.1	10.0 - 145	
13C-PCB-105	103	10.0 - 145	
13C-PCB-114	106	10.0 - 145	
13C-PCB-118	105	10.0 - 145	
13C-PCB-123	102	10.0 - 145	
13C-PCB-126	117	10.0 - 145	
13C-PCB-155	89.5	10.0 - 145	
13C-PCB-156	105	10.0 - 145	
13C-PCB-157	106	10.0 - 145	
13C-PCB-167	101	10.0 - 145	
13C-PCB-169	116	10.0 - 145	
13C-PCB-188	87.7	10.0 - 145	
13C-PCB-189	104	10.0 - 145	
13C-PCB-202	82.4	10.0 - 145	
13C-PCB-205	97.4	10.0 - 145	
13C-PCB-206	88.4	10.0 - 145	
13C-PCB-208	87.0	10.0 - 145	
13C-PCB-209	82.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	106	5.00 - 145	
13C-PCB-111	105	10.0 - 145	
13C-PCB-178	90.5	10.0 - 145	

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

Analyst: _____

Date: 2/17/2017

Reviewed By: _____

Date: 2/17/2017

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EPA Method 1668
PCBs

FAL ID: 10398-007-SA
Client ID: LDW-BA-SU-S010-LCB-EXSITU
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017
Total Conc: 14200

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-1	ND	4.06		PCB-54	ND	8.97	
PCB-2	ND	4.95		PCB-55	ND	9.22	
PCB-3	ND	4.78		PCB-56/60	ND	5.94	C
PCB-4	ND	15.5		PCB-57	ND	9.48	
PCB-5	ND	12.1		PCB-58	ND	9.01	
PCB-6	ND	12.6		PCB-61/70	ND	8.68	C
PCB-7	ND	12.3		PCB-62	ND	10.6	
PCB-8	ND	14.0		PCB-63	ND	9.37	
PCB-9	ND	13.1		PCB-65	ND	9.40	
PCB-10	ND	13.8		PCB-66/76	ND	9.02	C
PCB-11	ND	14.3		PCB-67	ND	10.3	
PCB-12	ND	13.7		PCB-68	ND	8.95	
PCB-13	ND	14.4		PCB-73	ND	10.5	
PCB-14	141	-		PCB-74	ND	9.14	
PCB-15	ND	14.0		PCB-77	ND	6.72	
PCB-16	ND	7.01		PCB-78	1110	-	
PCB-17	ND	7.52		PCB-79	ND	5.82	
PCB-18	ND	8.18		PCB-80	ND	8.32	
PCB-19	ND	8.08		PCB-81	ND	5.62	
PCB-20/21/33	ND	5.58	C	PCB-82	ND	10.8	
PCB-22	ND	5.67		PCB-83/112	ND	8.06	C
PCB-23	ND	5.32		PCB-84/92	ND	8.55	C
PCB-24	ND	5.75		PCB-85/116	ND	7.63	C
PCB-25	ND	4.85		PCB-86	ND	8.30	
PCB-26	ND	5.96		PCB-87/117/125	ND	7.14	C
PCB-27	ND	5.90		PCB-88/91	ND	5.73	C
PCB-28	ND	4.92		PCB-89	ND	9.34	
PCB-29	ND	5.88		PCB-90/101	ND	8.00	C
PCB-30	ND	5.68		PCB-93	ND	6.51	
PCB-31	ND	5.85		PCB-94	ND	6.63	
PCB-32	ND	6.45		PCB-95	ND	6.15	
PCB-34	ND	6.75		PCB-96	ND	4.59	
PCB-35	ND	6.83		PCB-97	ND	7.35	
PCB-36	639	-		PCB-98/102	ND	5.23	C
PCB-37	ND	5.80		PCB-99	ND	7.68	
PCB-38	ND	6.05		PCB-100	ND	5.54	
PCB-39	ND	6.17		PCB-103	ND	5.51	
PCB-40	ND	16.0		PCB-104	947	-	
PCB-41/64/71/72	ND	9.50	C	PCB-105	ND	5.52	
PCB-42/59	ND	10.2	C	PCB-107/108	ND	5.51	C
PCB-43/49	ND	12.4	C	PCB-109	ND	6.69	
PCB-44	ND	13.9		PCB-110	ND	6.35	
PCB-45	ND	13.7		PCB-111/115	ND	5.84	C
PCB-46	ND	14.4		PCB-113	ND	6.74	
PCB-47	ND	9.74		PCB-114	ND	5.06	
PCB-48/75	ND	9.84	C	PCB-118/106	ND	5.77	C
PCB-50	ND	12.1		PCB-119	ND	6.27	
PCB-51	ND	11.8		PCB-120	ND	6.07	
PCB-52/69	ND	9.34	C	PCB-121	1490	-	
PCB-53	ND	12.1		PCB-122	ND	5.70	

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EPA Method 1668
PCBs

FAL ID: 10398-007-SA
Client ID: LDW-BA-SU-S010-LCB-EXSITU
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Compound	Conc	DL	Qual	Compound	Conc	DL	Qual
PCB-123	ND	4.35		PCB-170	ND	4.83	
PCB-124	ND	5.25		PCB-171	ND	4.17	
PCB-126	ND	6.93		PCB-172	36.9	-	
PCB-127	ND	6.15		PCB-173	ND	4.59	
PCB-128/162	ND	3.94	C	PCB-174	ND	3.62	
PCB-129	ND	5.21		PCB-175	ND	3.88	
PCB-130	ND	5.62		PCB-176	ND	3.00	
PCB-131/133	ND	4.25	C	PCB-177	ND	4.40	
PCB-132/161	ND	3.73	C	PCB-178	ND	4.11	
PCB-134/143	ND	4.34	C	PCB-179	ND	2.88	
PCB-135	ND	4.50		PCB-180	ND	3.49	
PCB-136	ND	4.01		PCB-181	ND	4.66	
PCB-137	ND	3.99		PCB-182/187	ND	3.66	C
PCB-138/163/164	ND	3.30	C	PCB-183	ND	3.68	
PCB-139/149	ND	3.96	C	PCB-184	1990	-	
PCB-140	ND	3.98		PCB-185	ND	3.99	
PCB-141	ND	4.30		PCB-186	ND	2.99	
PCB-142	1430	-		PCB-188	ND	3.46	
PCB-144	ND	4.24		PCB-189	ND	2.85	
PCB-145	ND	4.19		PCB-190	ND	3.54	
PCB-146/165	ND	3.61	C	PCB-191	ND	3.31	
PCB-147	ND	3.83		PCB-192	1540	-	
PCB-148	ND	5.79		PCB-193	ND	3.17	
PCB-150	ND	4.08		PCB-194	ND	7.33	
PCB-151	ND	4.45		PCB-195	ND	7.80	
PCB-152	ND	4.13		PCB-196/203	ND	5.54	C
PCB-153	28.6	-		PCB-197	ND	4.07	
PCB-154	ND	4.77		PCB-198	ND	6.69	
PCB-155	1590	-		PCB-199	ND	5.47	
PCB-156	ND	3.61		PCB-200	ND	4.23	
PCB-157	ND	3.90		PCB-201	ND	4.00	
PCB-158/160	ND	3.32	C	PCB-202	ND	4.15	
PCB-159	ND	3.40		PCB-204	3210	-	
PCB-166	ND	3.39		PCB-205	ND	5.69	
PCB-167	ND	3.73		PCB-206	ND	10.1	
PCB-168	ND	3.30		PCB-207	13.6	-	J
PCB-169	ND	4.05		PCB-208	ND	7.98	
				PCB-209	ND	10.6	

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EPA Method 1668
PCBs

FAL ID: 10398-007-SA
Client ID: LDW-BA-SU-S010-LCB-EXSITU
Matrix: Solvent
Batch No: X3991

Date Extracted: 01-30-2017
Date Received: 01-20-2017
Amount: 1.00 sample

ICal: DAILY209FAL4-1-31-17
GC Column: DB1
Units: pg/sample

Acquired: 01-31-2017

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	88.7	5.00 - 145	
13C-PCB-3	88.5	5.00 - 145	
13C-PCB-4	95.0	5.00 - 145	
13C-PCB-15	91.7	5.00 - 145	
13C-PCB-19	88.7	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	96.2	5.00 - 145	
13C-PCB-77	112	10.0 - 145	
13C-PCB-81	114	10.0 - 145	
13C-PCB-104	93.3	10.0 - 145	
13C-PCB-105	108	10.0 - 145	
13C-PCB-114	106	10.0 - 145	
13C-PCB-118	105	10.0 - 145	
13C-PCB-123	104	10.0 - 145	
13C-PCB-126	117	10.0 - 145	
13C-PCB-155	87.9	10.0 - 145	
13C-PCB-156	105	10.0 - 145	
13C-PCB-157	110	10.0 - 145	
13C-PCB-167	102	10.0 - 145	
13C-PCB-169	115	10.0 - 145	
13C-PCB-188	88.4	10.0 - 145	
13C-PCB-189	106	10.0 - 145	
13C-PCB-202	84.0	10.0 - 145	
13C-PCB-205	98.5	10.0 - 145	
13C-PCB-206	90.4	10.0 - 145	
13C-PCB-208	88.6	10.0 - 145	
13C-PCB-209	84.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	103	5.00 - 145	
13C-PCB-111	102	10.0 - 145	
13C-PCB-178	88.5	10.0 - 145	

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

Analyst: _____

Date: 2/17/2017

Reviewed By: _____

Date: 2/17/2017

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

FAL USE ONLY

Laboratory Project No.: 10398

Temperature: 0.5 °C

Chain of Custody

www.frontieranalytical.com

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

CLIENT INFORMATION	INVOICE INFORMATION (if different from client info)	PROJECT INFORMATION
Company Name: Floyd Snider	Company Name: AMEC Foster Wheeler	FAL Quote #:
Contact Name: Gretchen Heavner	Contact Name: Cliff Whitmus	P.O. #: C013106435
Address: 601 Union St, St 601, Seattle, WA 98101	Address: 3500 188th St, St. 601, Lynnwood, WA 98037	Project #: LY15160310
Phone: 206-292-2078 ~~Fax:~~	Phone: 425-921-4023 ~~Fax:~~	Project Name:
Email: gretchen.heavner@floydsnider.com	Email: Cliff.Whitmus@amecfw.com	TAT (business days): ☒ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
		* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION	REPORT DISTRIBUTION (email only is preferred)	ADDITIONAL INSTRUCTIONS
Report Level: ☒ I/II ☐ III ☐ IV	☐ Hardcopy	
☒ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: ____ ☐ Custom: Contact FAL	☒ CD (.pdf including EDDs if requested)	
	☒ Email (.pdf including EDDs if requested)	
☐ California State Drinking Water Form		
System #: Source #:		
Sampler: Employer:		

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	LDW-BA-SU-ENR+AC-CA-SO10	1/18/17	8:28	Hexane	1								X			
2	LDW-BA-SU-ENR+AC-CB-SO10	↓	8:46	↓	↓								↓			
3	LDW-BA-SU-ENR+AC-CC-SO10		9:10													
4	LDW-BA-SU-ENR-CA-SO10		10:58													
5	LDW-BA-SU-ENR-CB-SO10		11:17													
6	LDW-BA-SU-ENR-CC-SO10		11:36													
7	LDW-BA-SU-SO10-LCB-EXSITU		12:20													
8																
9																
10																
11																
12																
13																
14																
15																

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

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

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Collin Ray Collin Ray EcoAnalysts	1.19.17	1245	Kelly Zipp KZipp	1-20-17	940

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.

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

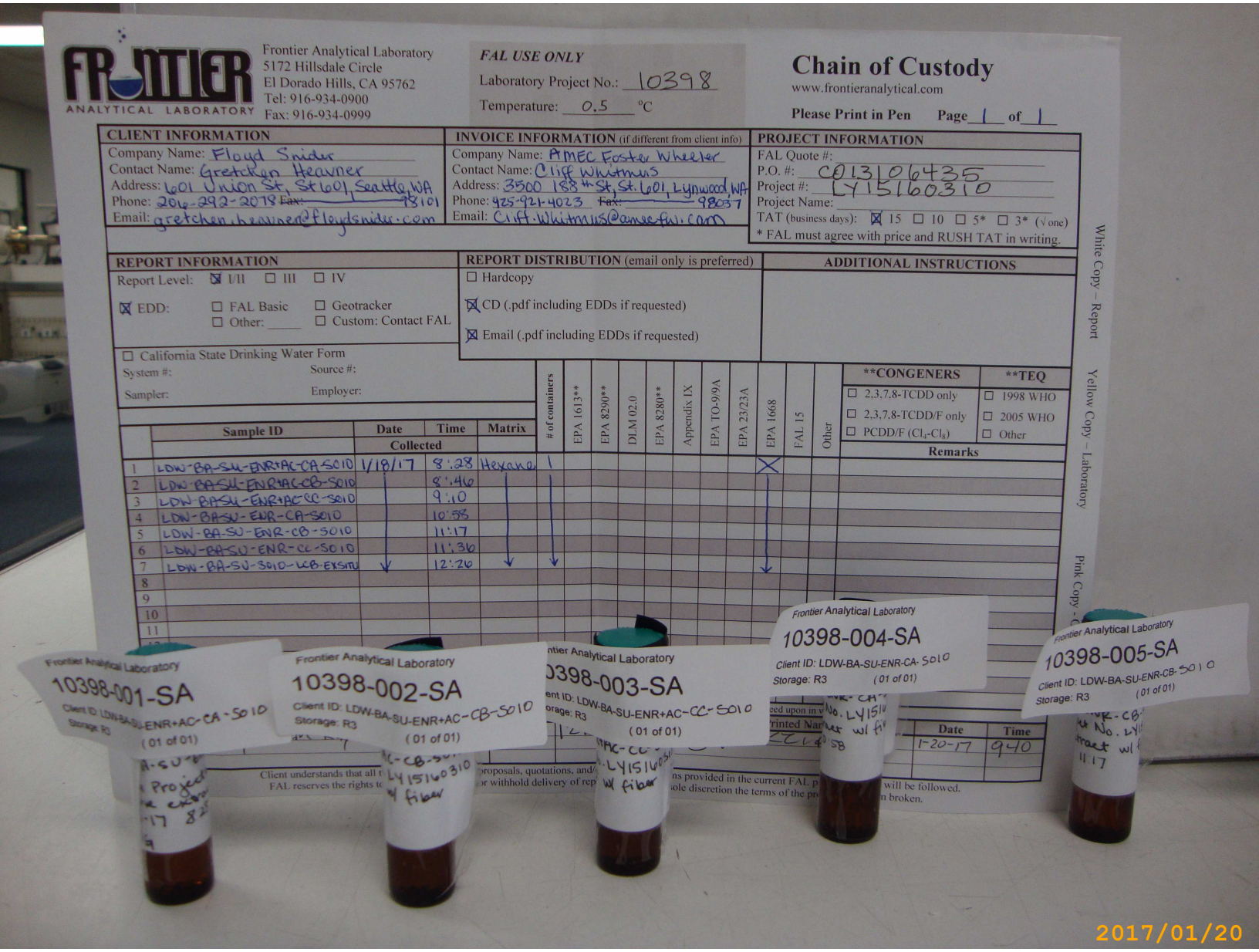
Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **10398**

Client:	Floyd | Snider
Client Project ID:	LY15160310
Date Received:	01/20/2017
Time Received:	09:40 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	7
Duplicates:	0
Storage Location:	R3

Method of Delivery:	Fed-Ex
Tracking Number:	778215429196
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0.5
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:	


Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999
FAL USE ONLY
Laboratory Project No.: 10398
Temperature: 0.5 °C
Chain of Custody
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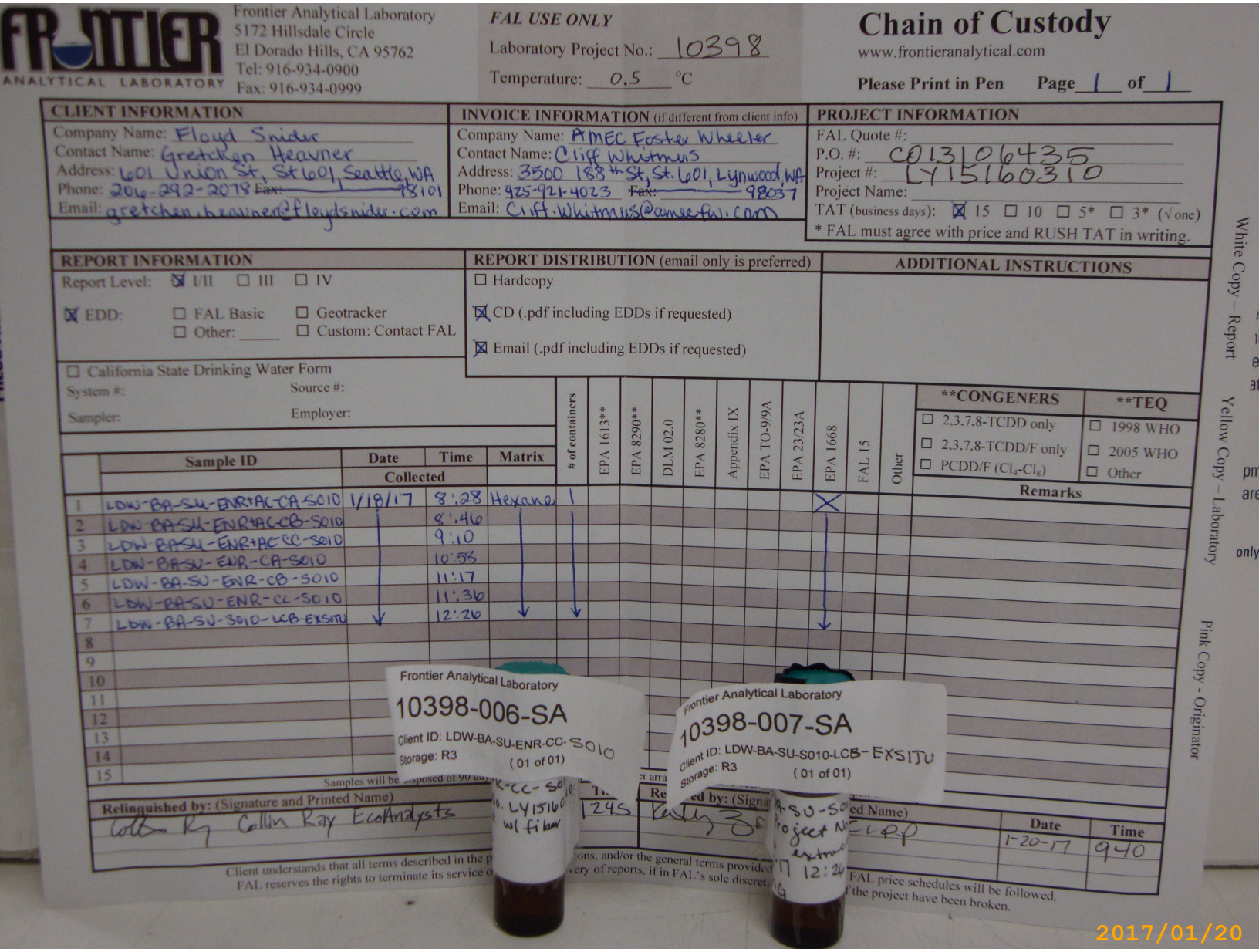
Page 1 of 1
CLIENT INFORMATION
Company Name: Floyd Snider
Contact Name: Gretchen Heavner
Address: 601 Union St, St 601, Seattle, WA
Phone: 206-292-2078
Email: gretchen.heavner@floydsnider.com
INVOICE INFORMATION (if different from client info)
Company Name: AMEC Foster Wheeler
Contact Name: Cliff Whitmus
Address: 3500 188th St, St. 601, Lynwood, WA
Phone: 425-921-4023
Email: Cliff.Whitmus@amecfw.com
PROJECT INFORMATION
FAL Quote #:
P.O. #: C013106435
Project #: LY15160310
Project Name:
TAT (business days): 15 10 5* 3* (√ one)
* FAL must agree with price and RUSH TAT in writing.
REPORT INFORMATION
Report Level: I/II III IV
EDD: FAL Basic Geotracker
Other: Custom: Contact FAL
California State Drinking Water Form
System #: Source #:
Sampler: Employer:
REPORT DISTRIBUTION (email only is preferred)
Hardcopy
CD (.pdf including EDDs if requested)
Email (.pdf including EDDs if requested)
ADDITIONAL INSTRUCTIONS
White Copy – Report
Yellow Copy – Laboratory
Pink Copy
Sample ID
Date Collected
Time Collected
Matrix
# of containers
EPA 1613**
EPA 8290**
DLM 02.0
EPA 8280**
Appendix IX
EPA TO-9/9A
EPA 23/23A
EPA 1668
FAL 15
Other
**CONGENERS
2,3,7,8-TCDD only
2,3,7,8-TCDD/F only
PCDD/F (Cl4-Cl8)
**TEQ
1998 WHO
2005 WHO
Other
Remarks
1 LDW-BA-SU-ENR+AC-CA-SO10 1/18/17 8:28 Hexane 1
2 LDW-BA-SU-ENR+AC-CB-SO10 8:46
3 LDW-BA-SU-ENR+AC-CC-SO10 9:10
4 LDW-BA-SU-ENR-CA-SO10 10:58
5 LDW-BA-SU-ENR-CB-SO10 11:17
6 LDW-BA-SU-ENR-CC-SO10 11:36
7 LDW-BA-SU-SO10-LCB-EXSITU 12:26
8
9
10
11
Date 1-20-17
Time 940
Frontier Analytical Laboratory
10398-001-SA
Client ID: LDW-BA-SU-ENR+AC-CA-SO10
Storage: R3
(01 of 01)
Frontier Analytical Laboratory
10398-002-SA
Client ID: LDW-BA-SU-ENR+AC-CB-SO10
Storage: R3
(01 of 01)
Frontier Analytical Laboratory
10398-003-SA
Client ID: LDW-BA-SU-ENR+AC-CC-SO10
(01 of 01)
Frontier Analytical Laboratory
10398-004-SA
Client ID: LDW-BA-SU-ENR-CA-SO10
Storage: R3
(01 of 01)
Frontier Analytical Laboratory
10398-005-SA
Client ID: LDW-BA-SU-ENR-CB-SO10
Storage: R3
(01 of 01)
2017/01/20



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

FAL USE ONLY
Laboratory Project No.: 10398
Temperature: 0.5 °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page 1 of 1

CLIENT INFORMATION
Company Name: Floyd Snider
Contact Name: Gretchen Heavner
Address: 601 Union St, St 601, Seattle, WA 98101
Phone: 206-292-2078 Fax:
Email: gretchen.heavner@floydsnider.com

INVOICE INFORMATION (if different from client info)
Company Name: AMEC Foster Wheeler
Contact Name: Cliff Whitmus
Address: 3500 188th St, St. 601, Lynnwood, WA 98037
Phone: 425-921-4023 Fax:
Email: Cliff.Whitmus@amec-fw.com

PROJECT INFORMATION
FAL Quote #:
P.O. #: C013106435
Project #: LY15160310
Project Name:
TAT (business days): ☒ 15 ☐ 10 ☐ 5* ☐ 3* (√ one)
* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION
Report Level: ☒ I/II ☐ III ☐ IV
☒ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: ____ ☐ Custom: Contact FAL
☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

REPORT DISTRIBUTION (email only is preferred)
☐ Hardcopy
☒ CD (.pdf including EDDs if requested)
☒ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other
1	LDW-BA-SU-ENR+AC-CA-S010	1/18/17	8:28	Hexane	1								X		
2	LDW-BA-SU-ENR+AC-CB-S010		8:46												
3	LDW-BA-SU-ENR+AC-CC-S010		9:10												
4	LDW-BA-SU-ENR-CA-S010		10:58												
5	LDW-BA-SU-ENR-CB-S010		11:17												
6	LDW-BA-SU-ENR-CC-S010		11:36												
7	LDW-BA-SU-S010-LCB-EXSITU		12:26												
8															
9															
10															
11															
12															
13															
14															
15															

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

Remarks

Samples will be disposed of 90 days after arrival unless other arrangements are made.

Relinquished by: (Signature and Printed Name) Collin Ray Collin Ray EcoAnalysts 1245
Received by: (Signature and Printed Name) Kelly Bo
Date 1-20-17 Time 940

Client understands that all terms described in the proposal, and/or the general terms provided on the back of this form, are binding. FAL reserves the rights to terminate its service on any of the project if in FAL's sole discretion, every of reports, if in FAL's sole discretion, FAL price schedules will be followed. If the project have been broken.

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

Frontier Analytical Laboratory
10398-006-SA
Client ID: LDW-BA-SU-ENR-CC-S010
Storage: R3
(01 of 01)

Frontier Analytical Laboratory
10398-007-SA
Client ID: LDW-BA-SU-S010-LCB-EXSITU
Storage: R3
(01 of 01)

2017/01/20

Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #:	10398	Sample #:	1 - 7	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	01/18/2018
Matrix:	Solvent	Extraction Batch:	3991	Due Date:	02/13/2017
Method:	EPA 1668 PCB			Storage:	R3
SOP:	SOPs: EP1A Rev.10 IP1A Rev.8				

COMMENTS/INSTRUCTIONS:

LL DATA package, Reg EDD
+FS Special EDD

Results: 10398

Extract/s located in box: "B. Cereus"

Standards: 10398

Instrument:
DB5 ____
DB225 ____
DB1 FALL
Other ____

Sample #	Sample Sample Control -- Prep		Extract Prep -- Instrument		Extract Instrument -- Storage	
	Initial	Date	Initial	Date	Initial	Date
10398-005-0001-SA	DN	1.30.2017	DN	1.30.2017		2/1/17
10398-002-0001-SA						
10398-001-0001-SA						
10398-006-0001-SA						
10398-007-0001-SA						
10398-003-0001-SA						
10398-004-0001-SA						

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 10398 Extraction Date: 2017-01-30 Extraction Chemist: DV

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: R161111A Vial: 3 Chemist/Witness/Date	NS Amt: 10.0uL ID: 170126A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R161207A Vial: 1 Chemist/Witness/Date
03991-001-0001-MB	(5.00ml)	N/A	DN KC 1.30.17	N/A	DN KC 1.30.17
03991-001-0001-OPR	(5.00ml)			DN KC 1.30.17	
10398-001-0001-SA	5.00ml			N/A	
10398-002-0001-SA	5.20ml				
10398-003-0001-SA	5.50ml				
10398-004-0001-SA	5.50ml				
10398-005-0001-SA	5.50ml				
10398-006-0001-SA	5.50ml				
10398-007-0001-SA	5.70ml				

AX-21 Charcoal Cleaned	160609	Acetone	165427	Acid Alumina	A0347591	Hexane	164453R
Methanol	165010	Methylene Chloride (DCM)	164775R	Silica Gel	TA2051534	Sodium Hydroxide 1N	158904
Sodium Sulfate	16B220001	Sulfuric Acid	166429	Tetradecane	157561	Toluene	56155
Water	166416	C-18 Empore Discs	320880D	Cyclohexane	55211		

Comments: MB and OPR blank matrix = 5.00ml of Hexane. DN 1.30.17

* volumes approximate, measured using a 5.0ml pipet. DN 1.30.17

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 10398

Method/Analysis: EPA 1668 PCB

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

Sample ID	Cleanup 1 PCB.MS6	Cleanup 2 N/A	Cleanup 3 N/A	RS Amt: 10.0uL ID: 170109A Vial: 1
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
03991-001-0001-MB	DN 1.30.17	N/A	N/A	DN KC 1.30.17
03991-001-0001-OPR	↓	↓	↓	↓
10398-001-0001-SA	↓	↓	↓	↓
10398-002-0001-SA	↓	↓	↓	↓
10398-003-0001-SA	↓	↓	↓	↓
10398-004-0001-SA	↓	↓	↓	↓
10398-005-0001-SA	↓	↓	↓	↓
10398-006-0001-SA	↓	↓	↓	↓
10398-007-0001-SA	↓	↓	↓	↓

AX-21 Charcoal Cleaned	160609	Acetone	165427	Acid Alumina	A0347591	Hexane	164453R
Methanol	165010	Methylene Chloride (DCM)	164775R	Silica Gel	TA2051534	Sodium Hydroxide 1N	158904
Sodium Sulfate	16B220001	Sulfuric Acid	166429	Tetradecane	157561	Toluene	56155
Water	166416	C-18 Empore Discs	320880D	Cyclohexane	55211		

Comments:

FAL ID: 03991-001-0001-MB Filename: 31JAN17Z Sam:4 Acquired: 31-JAN-17 16:06:55 ICal: DAILY209FAL4-1-31-17
Client ID: Method Blank ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	S/N-1	S/N-2	Rec
PCB-1	*	*	n	NotFnd	0.98	*		930	700	3.99	*	*	
13C-PCB-1	3.29e+07	3.24	y	14:32	1.01	9560					6600	550	96
PCB-2	*	*	n	NotFnd	0.89	*		930	700	5.04	*	*	
PCB-3	*	*	n	NotFnd	1.03	*		930	700	5.00	*	*	
13C-PCB-3	3.10e+07	3.27	y	16:59	0.97	9460					5000	420	95
PCB-4	*	*	n	NotFnd	1.05	*		1000	1200	8.60	*	*	
PCB-10	*	*	n	NotFnd	1.13	*		1000	1200	8.25	*	*	
13C-PCB-4	2.12e+07	1.59	y	18:12	0.63	9950					2000	1500	99
PCB-9	*	*	n	NotFnd	1.19	*		1000	1200	7.83	*	*	
PCB-7	*	*	n	NotFnd	1.27	*		1000	1200	7.35	*	*	
PCB-6	*	*	n	NotFnd	1.23	*		1000	1200	7.55	*	*	
PCB-8	*	*	n	NotFnd	1.11	*		1000	1200	8.38	*	*	
PCB-5	*	*	n	NotFnd	1.29	*		1000	1200	7.23	*	*	
PCB-14	*	*	n	NotFnd	1.15	*		1000	1200	8.07	*	*	
PCB-11	*	*	n	NotFnd	1.08	*		1000	1200	8.58	*	*	
PCB-13	*	*	n	NotFnd	1.08	*		1000	1200	8.61	*	*	
PCB-12	*	*	n	NotFnd	1.13	*		1000	1200	8.22	*	*	
PCB-15	*	*	n	NotFnd	1.07	*		1000	1200	8.82	*	*	
13C-PCB-15	3.05e+07	1.61	y	23:47	0.94	9520					2000	1400	95
PCB-19	*	*	n	NotFnd	1.03	*		710	410	5.39	*	*	
PCB-30	*	*	n	NotFnd	1.46	*		710	410	3.79	*	*	
PCB-18	*	*	n	NotFnd	1.02	*		710	410	5.45	*	*	
PCB-17	*	*	n	NotFnd	1.10	*		710	410	5.02	*	*	
PCB-27	*	*	n	NotFnd	1.41	*		710	410	3.94	*	*	
PCB-24	*	*	n	NotFnd	1.44	*		710	410	3.84	*	*	
PCB-16	*	*	n	NotFnd	1.18	*		710	410	4.67	*	*	
PCB-32	*	*	n	NotFnd	1.29	*		710	410	4.30	*	*	
13C-PCB-19	1.88e+07	1.06	y	22:06	0.57	9650					97	130	96
13C-PCB-9	3.40e+07	1.61	y	19:54	-	46.0					2900	2100	
PCB-34	*	*	n	NotFnd	0.98	*		640	380	7.07	*	*	
PCB-23	*	*	n	NotFnd	1.24	*		640	380	5.57	*	*	
PCB-29	*	*	n	NotFnd	1.12	*		640	380	6.15	*	*	
PCB-26	*	*	n	NotFnd	1.11	*		640	380	6.23	*	*	
PCB-25	*	*	n	NotFnd	1.36	*		640	380	5.07	*	*	
PCB-31	*	*	n	NotFnd	1.13	*		640	380	6.12	*	*	
PCB-28	*	*	n	NotFnd	1.34	*		640	380	5.15	*	*	
PCB-20/21/33	*	*	n	NotFnd	1.18	*		640	380	5.84	*	*	
PCB-22	*	*	n	NotFnd	1.17	*		640	380	5.93	*	*	
PCB-36	*	*	n	NotFnd	1.05	*		640	380	6.61	*	*	
PCB-39	*	*	n	NotFnd	1.07	*		640	380	6.45	*	*	
PCB-38	*	*	n	NotFnd	1.09	*		640	380	6.33	*	*	
PCB-35	*	*	n	NotFnd	0.97	*		640	380	7.15	*	*	
PCB-37	*	*	n	NotFnd	1.14	*		640	380	6.06	*	*	
13C-PCB-37	2.47e+07	1.08	y	30:26	1.14	10100					63	55	100

FAL ID: 03991-001-0001-MB Filename: 31JAN17Z Sam:4 Acquired: 31-JAN-17 ICal: DAILY209FAL4-1-31-17
Client ID: Method Blank ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

PCB-54	*	*	n	NotFnd	0.99	*	400	500	3.65	*	*	
PCB-50	*	*	n	NotFnd	0.74	*	400	500	4.93	*	*	
PCB-53	*	*	n	NotFnd	0.74	*	400	500	4.92	*	*	
PCB-51	*	*	n	NotFnd	0.75	*	400	500	4.82	*	*	
PCB-45	*	*	n	NotFnd	0.65	*	400	500	5.56	*	*	
PCB-46	*	*	n	NotFnd	0.62	*	400	500	5.87	*	*	
PCB-52/69	*	*	n	NotFnd	0.95	*	400	500	3.80	*	*	
PCB-73	*	*	n	NotFnd	0.85	*	400	500	4.27	*	*	
PCB-43/49	*	*	n	NotFnd	0.72	*	400	500	5.05	*	*	
PCB-47	*	*	n	NotFnd	0.91	*	400	500	3.96	*	*	
PCB-48/75	*	*	n	NotFnd	0.90	*	400	500	4.01	*	*	
PCB-65	*	*	n	NotFnd	0.95	*	400	500	3.83	*	*	
PCB-62	*	*	n	NotFnd	0.84	*	400	500	4.30	*	*	
PCB-44	*	*	n	NotFnd	0.64	*	400	500	5.65	*	*	
PCB-42/59	*	*	n	NotFnd	0.87	*	400	500	4.17	*	*	
PCB-41/64/71/72	*	*	n	NotFnd	0.94	*	400	500	3.87	*	*	
PCB-68	*	*	n	NotFnd	0.99	*	400	500	3.64	*	*	
PCB-40	*	*	n	NotFnd	0.56	*	400	500	6.52	*	*	
PCB-57	*	*	n	NotFnd	0.94	*	400	500	3.86	*	*	
PCB-67	*	*	n	NotFnd	0.86	*	400	500	4.21	*	*	
PCB-58	*	*	n	NotFnd	0.99	*	400	500	3.67	*	*	
PCB-63	*	*	n	NotFnd	0.95	*	400	500	3.81	*	*	
PCB-74	*	*	n	NotFnd	0.97	*	400	500	3.72	*	*	
PCB-61/70	*	*	n	NotFnd	1.03	*	400	500	3.53	*	*	
PCB-66/76	*	*	n	NotFnd	0.99	*	400	500	3.67	*	*	
PCB-80	*	*	n	NotFnd	1.07	*	400	500	3.39	*	*	
PCB-55	*	*	n	NotFnd	0.97	*	400	500	3.76	*	*	
13C-PCB-54	2.46e+07	0.79	y	25:38	1.12	10300				2500	3900	100
PCB-104	*	*	n	NotFnd	1.06	*	380	680	5.99	*	*	
PCB-96	*	*	n	NotFnd	0.99	*	380	680	6.43	*	*	
PCB-103	*	*	n	NotFnd	0.82	*	380	680	7.72	*	*	
PCB-100	*	*	n	NotFnd	0.82	*	380	680	7.76	*	*	
PCB-94	*	*	n	NotFnd	0.68	*	380	680	9.28	*	*	
PCB-98/102	*	*	n	NotFnd	0.87	*	380	680	7.32	*	*	
PCB-95	*	*	n	NotFnd	0.74	*	380	680	8.61	*	*	
PCB-93	*	*	n	NotFnd	0.70	*	380	680	9.11	*	*	
PCB-88/91	*	*	n	NotFnd	0.79	*	380	680	8.02	*	*	
PCB-121	*	*	n	NotFnd	0.93	*	380	680	6.84	*	*	
13C-PCB-104	1.76e+07	1.61	y	30:05	0.82	10000				5700	4200	100
13C-PCB-28	3.04e+07	1.05	y	26:44	1.38	10300				110	96	100
13C-PCB-52	2.14e+07	0.79	y	28:59	-	43.0				1900	3000	
PCB-56/60	*	*	n	NotFnd	1.06	*	400	520	6.66	*	*	
PCB-79	*	*	n	NotFnd	1.08	*	400	520	6.52	*	*	
PCB-78	*	*	n	NotFnd	1.03	*	400	520	6.89	*	*	
PCB-81	*	*	n	NotFnd	1.07	*	400	520	6.06	*	*	
13C-PCB-81	1.98e+07	0.81	y	36:12	1.02	10100				1600	2300	100
PCB-77	*	*	n	NotFnd	0.99	*	400	520	7.79	*	*	
13C-PCB-77	1.97e+07	0.82	y	36:47	1.01	10200				1300	1900	100

PCB-155	*	*	n	NotFnd	1.01	*	300	370	3.74	*	*	
PCB-150	*	*	n	NotFnd	0.91	*	300	370	4.14	*	*	
PCB-152	*	*	n	NotFnd	0.90	*	300	370	4.19	*	*	
PCB-145	*	*	n	NotFnd	0.89	*	300	370	4.24	*	*	
PCB-136	*	*	n	NotFnd	0.93	*	300	370	4.06	*	*	
PCB-148	*	*	n	NotFnd	0.64	*	300	370	5.86	*	*	
PCB-154	*	*	n	NotFnd	0.78	*	300	370	4.83	*	*	
13C-PCB-155	1.92e+07	1.29	y	34:15	1.02	9790				3700	3600	98
13C-PCB-111	2.11e+07	1.60	y	36:20	1.11	9860				1100	830	99
13C-PCB-101	1.92e+07	1.62	y	34:41	-	42.5				1000	810	
PCB-84/92	*	*	n	NotFnd	0.79	*	340	460	6.52	*	*	
PCB-89	*	*	n	NotFnd	0.73	*	340	460	7.12	*	*	
PCB-90/101	*	*	n	NotFnd	0.85	*	340	460	6.10	*	*	
PCB-113	*	*	n	NotFnd	1.01	*	340	460	5.14	*	*	
PCB-99	*	*	n	NotFnd	0.88	*	340	460	5.85	*	*	
PCB-119	*	*	n	NotFnd	1.08	*	340	460	4.78	*	*	
PCB-83/112	*	*	n	NotFnd	0.84	*	340	460	6.15	*	*	
PCB-109	*	*	n	NotFnd	1.01	*	340	460	5.10	*	*	
PCB-97	*	*	n	NotFnd	0.92	*	340	460	5.60	*	*	
PCB-86	*	*	n	NotFnd	0.82	*	340	460	6.33	*	*	
PCB-87/117/125	*	*	n	NotFnd	0.95	*	340	460	5.44	*	*	
PCB-111/115	*	*	n	NotFnd	1.16	*	340	460	4.45	*	*	
PCB-85/116	*	*	n	NotFnd	0.89	*	340	460	5.82	*	*	
PCB-120	*	*	n	NotFnd	1.12	*	340	460	4.62	*	*	
PCB-110	*	*	n	NotFnd	1.07	*	340	460	4.84	*	*	
PCB-82	*	*	n	NotFnd	0.63	*	340	460	8.25	*	*	
PCB-124	*	*	n	NotFnd	1.04	*	410	460	5.38	*	*	
PCB-107/108	*	*	n	NotFnd	0.99	*	410	460	5.66	*	*	
PCB-123	*	*	n	NotFnd	1.22	*	410	460	4.49	*	*	
13C-PCB-123	1.94e+07	1.60	y	38:23	1.07	10400				130	170	100
PCB-118/106	*	*	n	NotFnd	0.96	*	410	460	5.72	*	*	
13C-PCB-118	2.13e+07	1.62	y	38:35	1.18	10300				130	160	100
PCB-114	*	*	n	NotFnd	1.07	*	410	460	5.23	*	*	
13C-PCB-114	1.97e+07	1.59	y	39:11	1.11	10100				130	160	100
PCB-122	*	*	n	NotFnd	0.96	*	410	460	5.85	*	*	
PCB-105	*	*	n	NotFnd	1.02	*	410	460	5.82	*	*	
13C-PCB-105	1.91e+07	1.59	y	40:00	1.09	10100				120	150	100
PCB-127	*	*	n	NotFnd	0.89	*	410	460	6.31	*	*	
PCB-126	*	*	n	NotFnd	1.05	*	410	460	7.86	*	*	
13C-PCB-126	1.62e+07	1.64	y	42:08	0.90	10300				85	110	100
PCB-151	*	*	n	NotFnd	0.81	*	400	430	7.32	*	*	
PCB-135	*	*	n	NotFnd	0.80	*	400	430	7.40	*	*	
PCB-144	*	*	n	NotFnd	0.85	*	400	430	6.98	*	*	
PCB-147	*	*	n	NotFnd	0.95	*	400	430	6.30	*	*	
PCB-139/149	*	*	n	NotFnd	0.91	*	400	430	6.51	*	*	
PCB-140	*	*	n	NotFnd	0.91	*	400	430	6.55	*	*	
PCB-134/143	*	*	n	NotFnd	0.83	*	400	430	7.14	*	*	
PCB-131/133	*	*	n	NotFnd	0.85	*	400	430	6.99	*	*	
PCB-142	*	*	n	NotFnd	0.73	*	400	430	8.16	*	*	
PCB-146/165	*	*	n	NotFnd	1.00	*	400	430	5.94	*	*	
PCB-132/161	*	*	n	NotFnd	0.97	*	400	430	6.14	*	*	
PCB-153	*	*	n	NotFnd	0.90	*	400	430	6.63	*	*	
PCB-168	*	*	n	NotFnd	1.10	*	400	430	5.44	*	*	
PCB-141	*	*	n	NotFnd	0.84	*	400	430	7.07	*	*	
PCB-137	*	*	n	NotFnd	0.91	*	400	430	6.57	*	*	

FAL ID: 03991-001-0001-MB Filename: 31JAN17Z Sam:4 Acquired: 31-JAN-17 16:06:55 ICal: DAILY209FAL4-1-31-17
Client ID: Method Blank ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

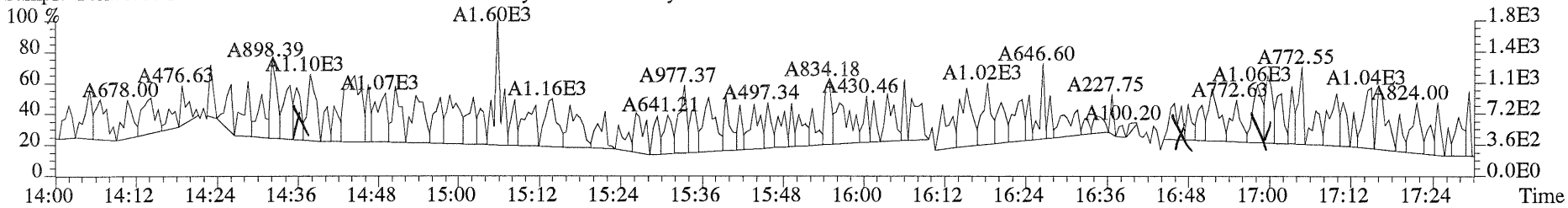
PCB-130	*	*	n	NotFnd	0.64	*	400	430	9.25	*	*	
PCB-138/163/164	*	*	n	NotFnd	1.10	*	400	430	5.44	*	*	
PCB-158/160	*	*	n	NotFnd	1.09	*	400	430	5.46	*	*	
PCB-129	*	*	n	NotFnd	0.69	*	400	430	8.57	*	*	
PCB-166	*	*	n	NotFnd	1.07	*	400	430	5.57	*	*	
PCB-159	*	*	n	NotFnd	1.06	*	400	430	5.59	*	*	
PCB-128/162	*	*	n	NotFnd	0.92	*	400	430	6.48	*	*	
PCB-167	*	*	n	NotFnd	0.93	*	400	430	5.85	*	*	
13C-PCB-167	1.93e+07	1.26	y	43:29	1.09	10100				540	720	100
PCB-156	*	*	n	NotFnd	0.97	*	400	430	5.79	*	*	
13C-PCB-156	1.80e+07	1.28	y	44:43	1.01	10200				530	690	100
PCB-157	*	*	n	NotFnd	0.97	*	400	430	6.10	*	*	
13C-PCB-157	1.92e+07	1.28	y	45:00	1.04	10500				500	650	100
PCB-169	*	*	n	NotFnd	0.92	*	400	430	7.64	*	*	
13C-PCB-169	1.56e+07	1.28	y	46:52	0.87	10200				420	560	100
PCB-188	*	*	n	NotFnd	1.07	*	460	340	4.53	*	*	
13C-PCB-188	1.91e+07	1.08	y	39:45	1.14	9580				3800	4500	96
PCB-184	*	*	n	NotFnd	1.21	*	460	340	4.03	*	*	
PCB-179	*	*	n	NotFnd	1.17	*	460	340	4.17	*	*	
PCB-176	*	*	n	NotFnd	1.12	*	460	340	4.35	*	*	
PCB-186	*	*	n	NotFnd	1.12	*	460	340	4.32	*	*	
PCB-178	*	*	n	NotFnd	0.82	*	460	340	5.95	*	*	
PCB-175	*	*	n	NotFnd	0.87	*	460	340	5.61	*	*	
PCB-182/187	*	*	n	NotFnd	0.92	*	460	340	5.30	*	*	
PCB-183	*	*	n	NotFnd	0.91	*	460	340	5.33	*	*	
PCB-185	*	*	n	NotFnd	0.84	*	460	340	5.78	*	*	
PCB-174	*	*	n	NotFnd	0.93	*	460	340	5.23	*	*	
PCB-181	*	*	n	NotFnd	0.72	*	460	340	6.74	*	*	
PCB-177	*	*	n	NotFnd	0.76	*	460	340	6.37	*	*	
PCB-171	*	*	n	NotFnd	0.80	*	460	340	6.04	*	*	
PCB-173	*	*	n	NotFnd	0.73	*	460	340	6.64	*	*	
PCB-172	*	*	n	NotFnd	0.75	*	460	340	6.45	*	*	
PCB-192	*	*	n	NotFnd	0.97	*	460	340	5.01	*	*	
PCB-180	*	*	n	NotFnd	0.96	*	460	340	5.05	*	*	
PCB-193	*	*	n	NotFnd	1.06	*	460	340	4.58	*	*	
PCB-191	*	*	n	NotFnd	1.02	*	460	340	4.78	*	*	
PCB-170	*	*	n	NotFnd	0.70	*	460	340	6.99	*	*	
PCB-190	*	*	n	NotFnd	0.95	*	460	340	5.12	*	*	
PCB-189	*	*	n	NotFnd	1.04	*	460	340	4.68	*	*	
13C-PCB-189	1.52e+07	1.08	y	48:32	0.85	10300				3800	4500	100
PCB-202	*	*	n	NotFnd	0.90	*	270	350	5.50	*	*	
PCB-201	*	*	n	NotFnd	0.93	*	270	350	5.30	*	*	
PCB-204	*	*	n	NotFnd	0.85	*	270	350	5.84	*	*	
PCB-197	*	*	n	NotFnd	0.92	*	270	350	5.40	*	*	
PCB-200	*	*	n	NotFnd	0.88	*	270	350	5.61	*	*	
PCB-198	*	*	n	NotFnd	0.56	*	270	350	8.87	*	*	
PCB-199	*	*	n	NotFnd	0.68	*	270	350	7.26	*	*	
PCB-196/203	*	*	n	NotFnd	0.67	*	270	350	7.34	*	*	
13C-PCB-202	1.53e+07	0.93	y	44:53	0.92	9530				4900	4300	95
13C-PCB-178	1.32e+07	1.08	y	42:23	0.80	9450				2700	3300	95
13C-PCB-138	1.75e+07	1.28	y	41:37	-	42.7				560	710	

FAL ID: 03991-001-0001-MB Filename: 31JAN17Z Sam:4 Acquired: 31-JAN-17 16:06:55 ICal: DAILY209FAL4-1-31-17
Client ID: Method Blank ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

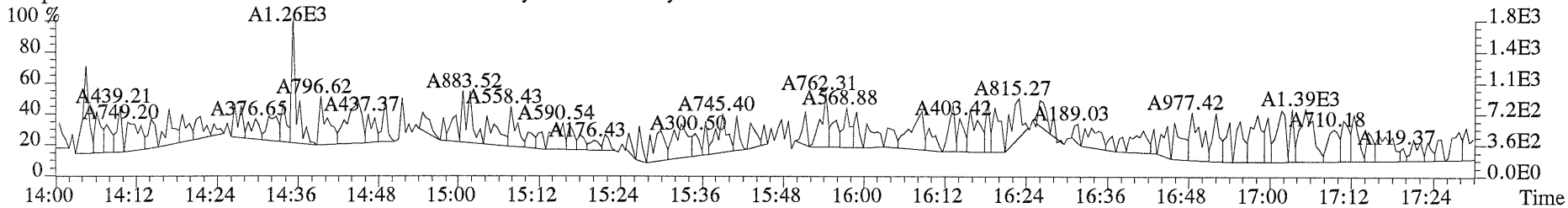
PCB-195	*	*	n	NotFnd	0.78	*	780	790	9.47	*	*	
PCB-194	*	*	n	NotFnd	0.83	*	780	790	8.90	*	*	
PCB-205	*	*	n	NotFnd	1.07	*	780	790	6.91	*	*	
13C-PCB-205	1.76e+07	0.90	y	50:13	1.19	10600				3600	4700	110
PCB-208	*	*	n	NotFnd	0.91	*	590	580	5.40	*	*	
13C-PCB-208	1.83e+07	0.79	y	49:15	1.31	10100				4100	5000	100
PCB-207	*	*	n	NotFnd	1.04	*	590	580	6.03	*	*	
PCB-206	*	*	n	NotFnd	0.93	*	590	580	8.86	*	*	
13C-PCB-206	1.29e+07	0.80	y	51:28	0.94	9900				2500	3000	99
PCB-209	*	*	n	NotFnd	0.99	*	750	780	8.95	*	*	
13C-PCB-209	1.75e+07	1.20	y	52:43	1.29	9760				5800	6600	98
13C-PCB-194	1.39e+07	0.93	y	49:58	-	44.1				3000	3800	

Analyst: _____ Date: 2/3/17

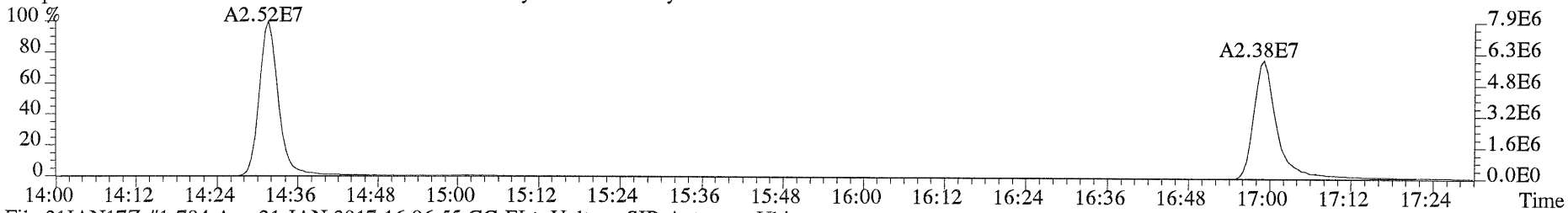
File:31JAN17Z #1-784 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



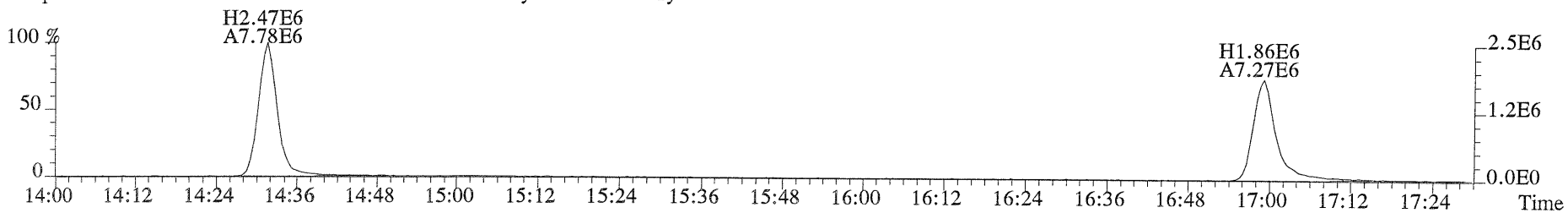
File:31JAN17Z #1-784 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



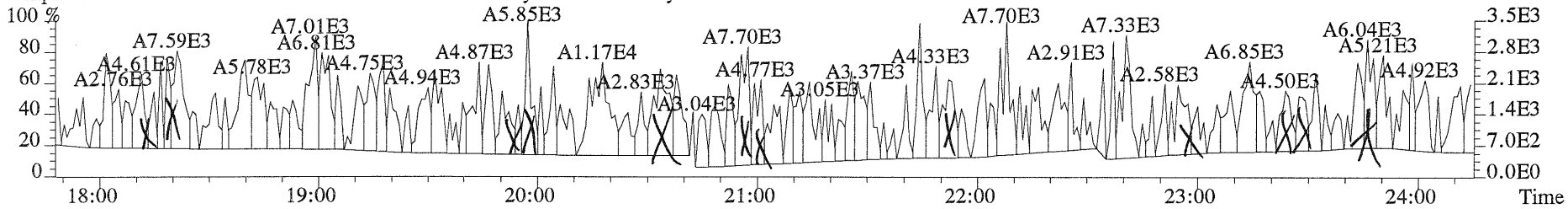
File:31JAN17Z #1-784 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



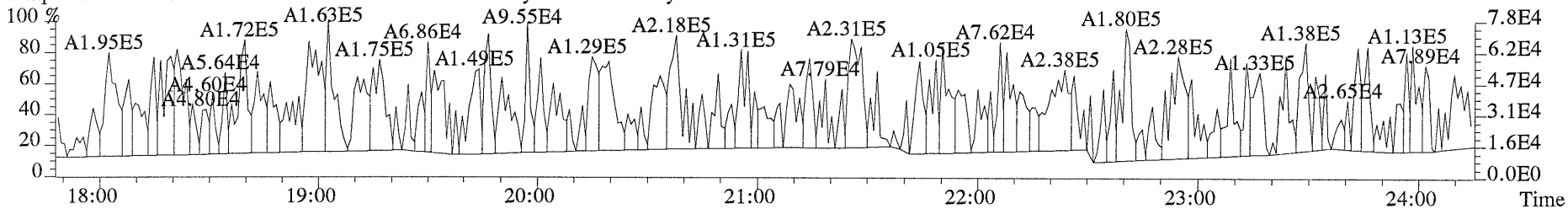
File:31JAN17Z #1-784 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



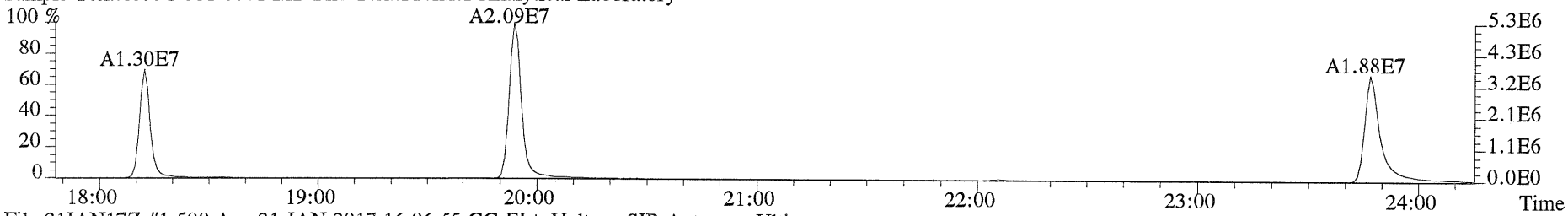
File:31JAN17Z #1-509 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



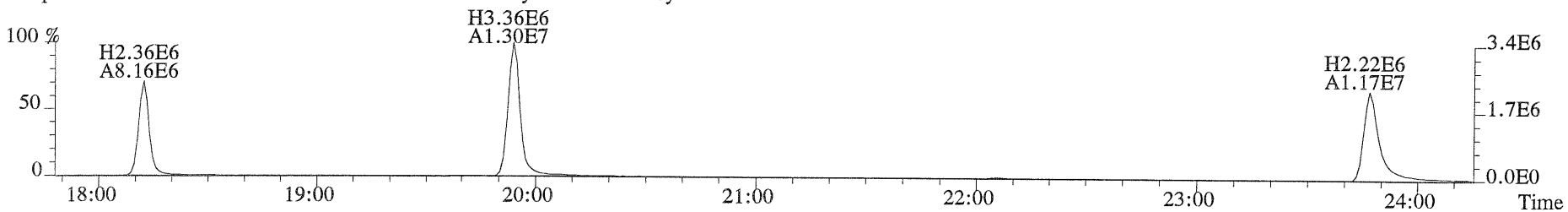
File:31JAN17Z #1-509 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



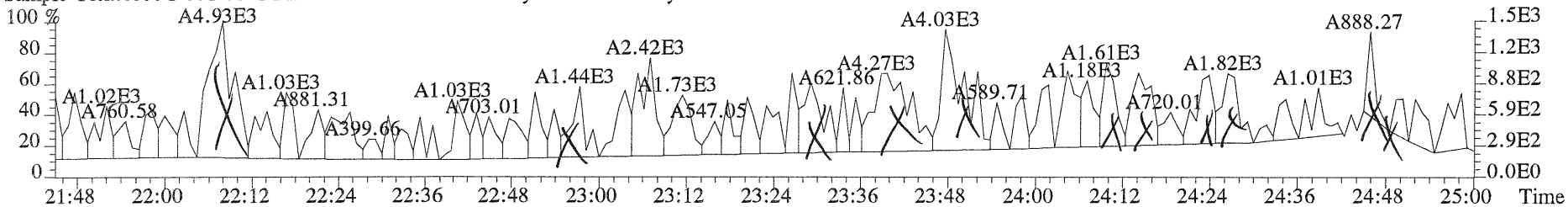
File:31JAN17Z #1-509 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



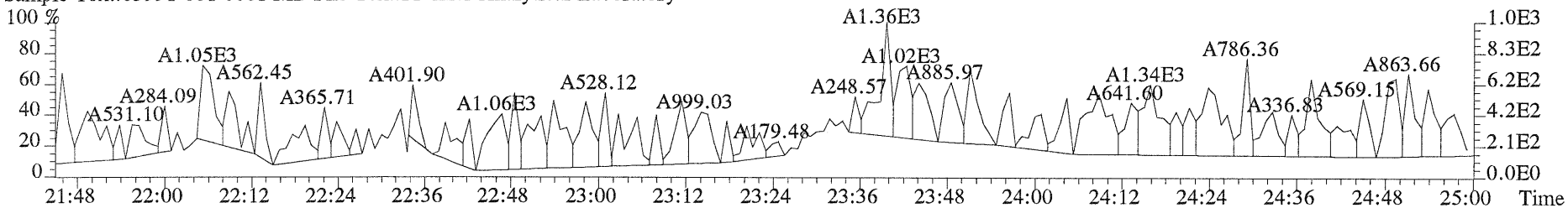
File:31JAN17Z #1-509 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



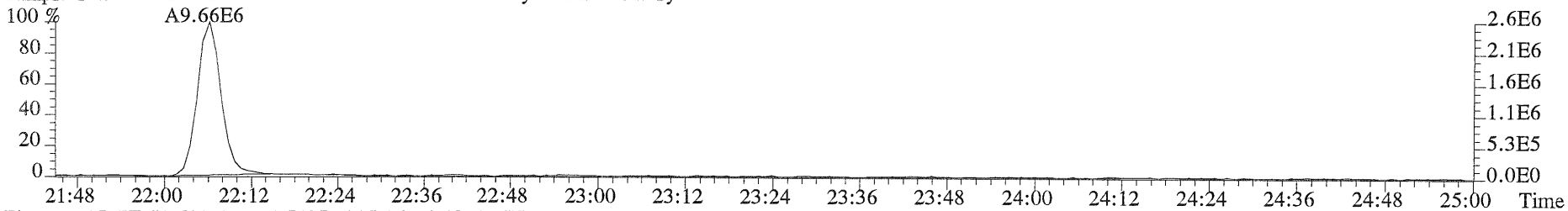
File:31JAN17Z #1-509 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



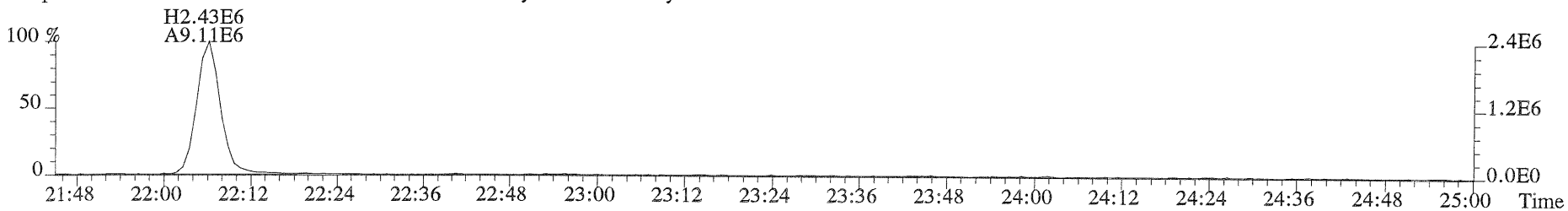
File:31JAN17Z #1-509 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



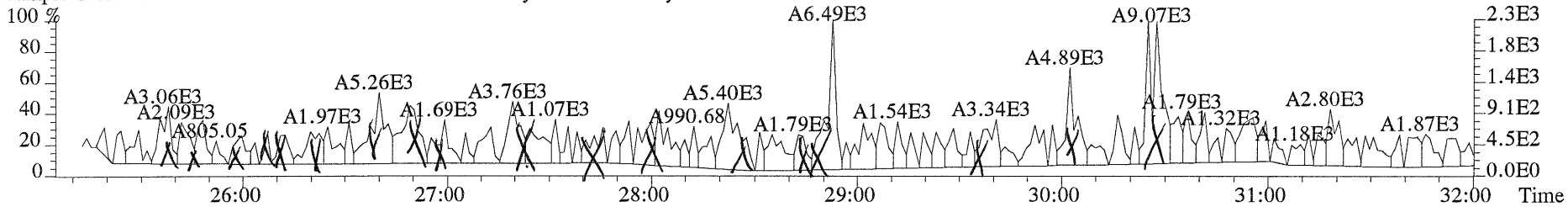
File:31JAN17Z #1-509 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



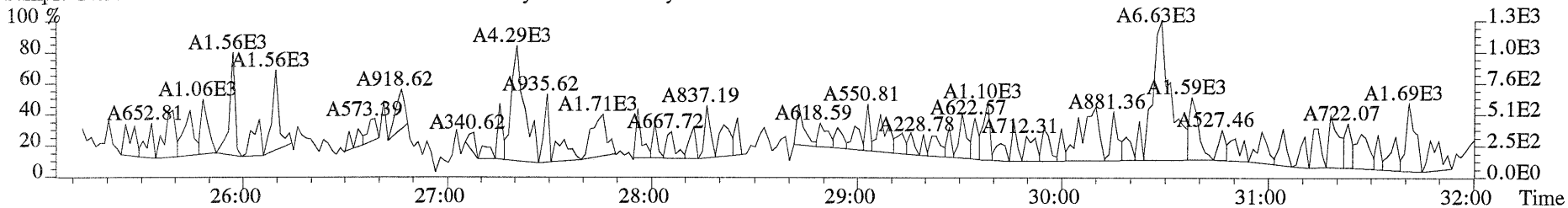
File:31JAN17Z #1-509 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



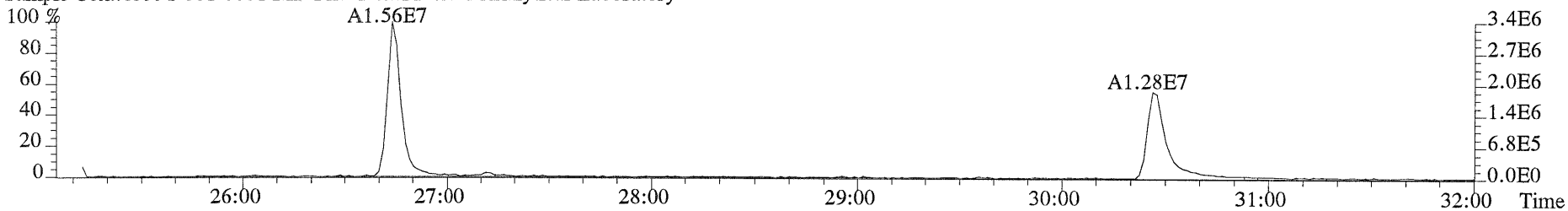
File:31JAN17Z #1-407 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



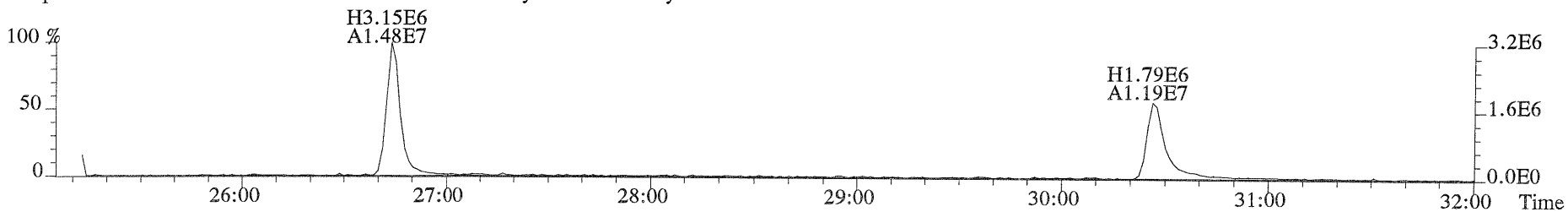
File:31JAN17Z #1-407 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



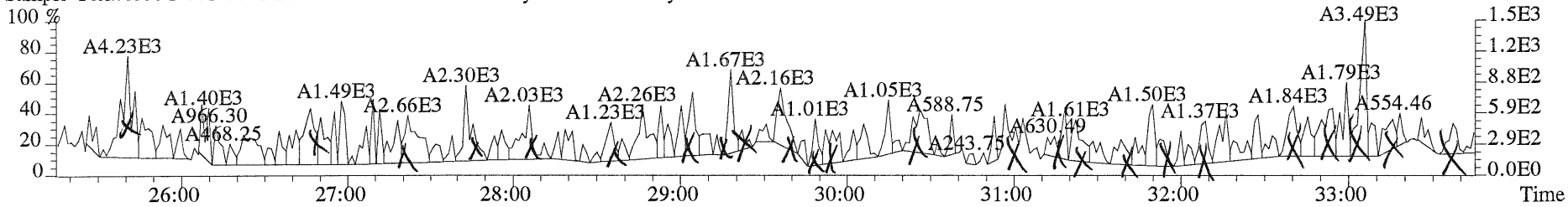
File:31JAN17Z #1-407 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



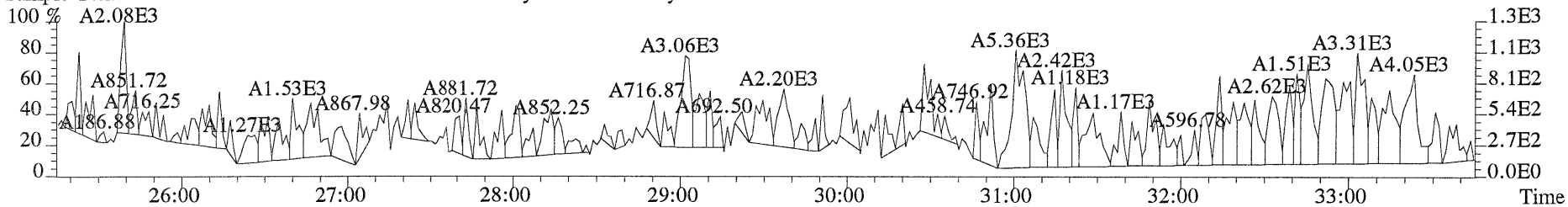
File:31JAN17Z #1-407 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-407 Acq:31-JAN-2017 16:06:55 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:03991-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-407 Acq:31-JAN-2017 16:06:55 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:03991-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-407 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
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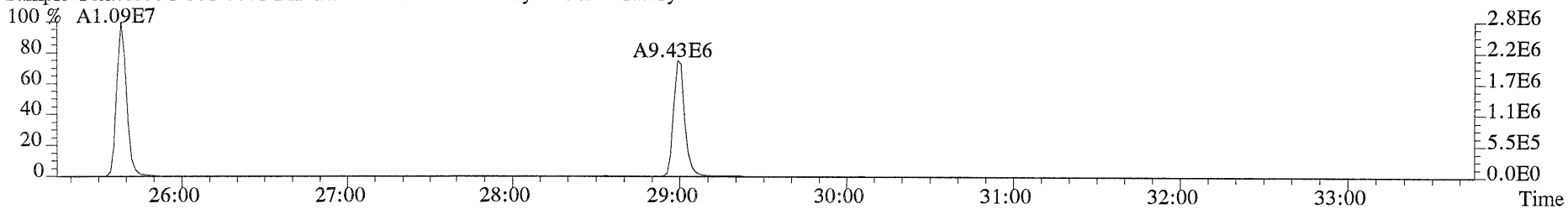

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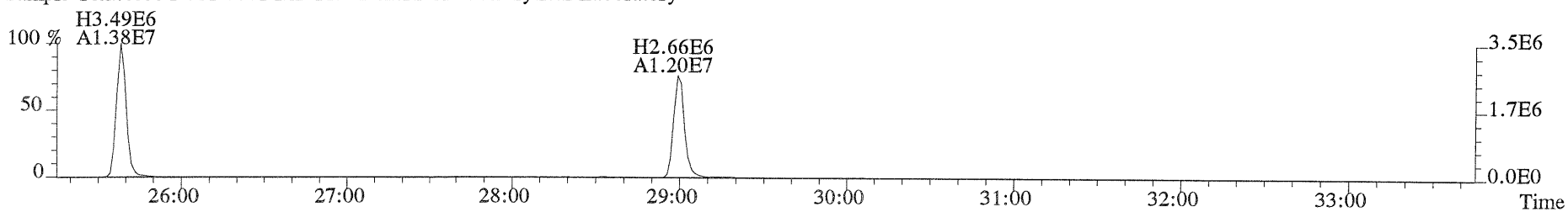

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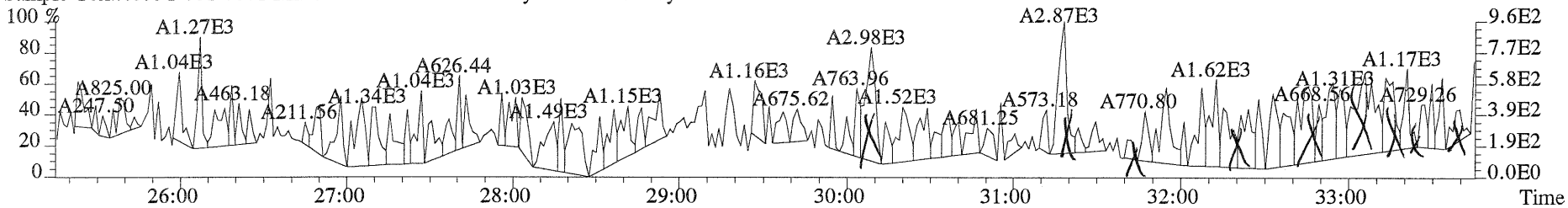
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



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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
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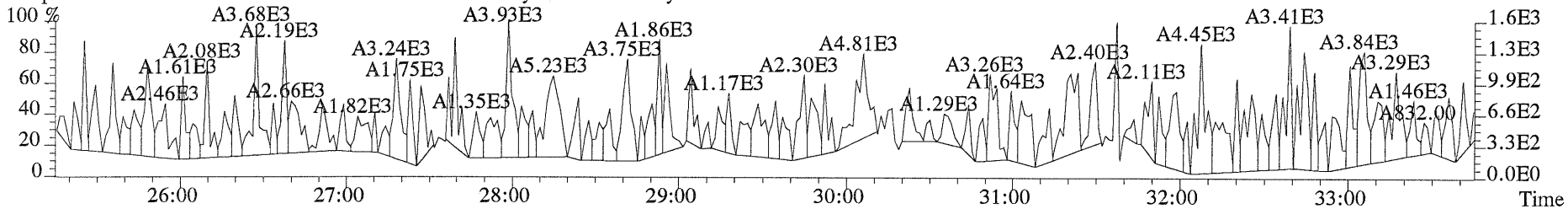

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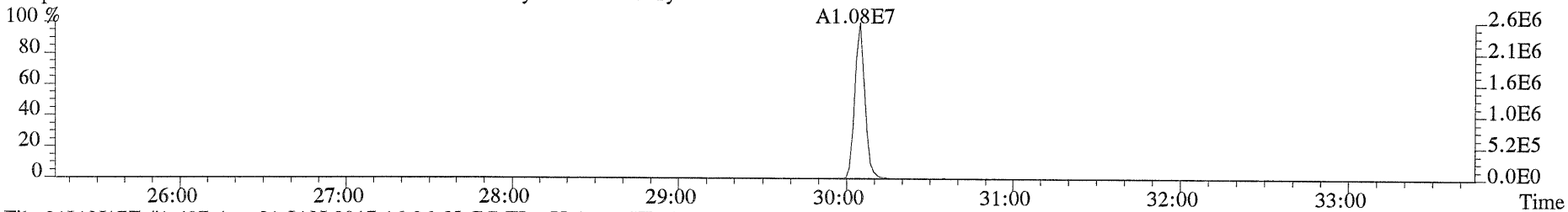

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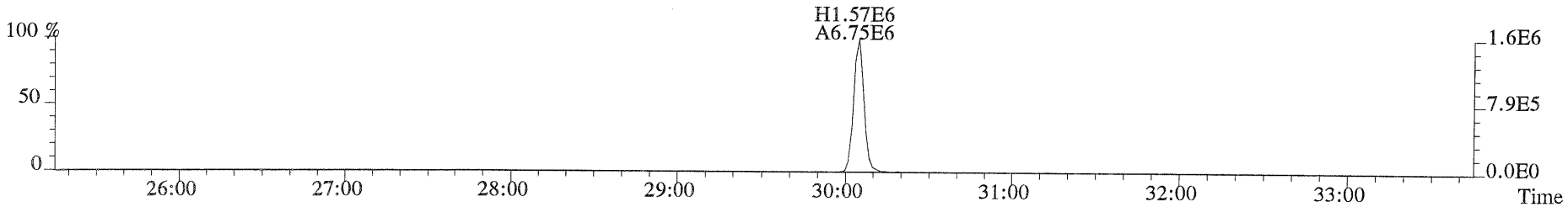
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



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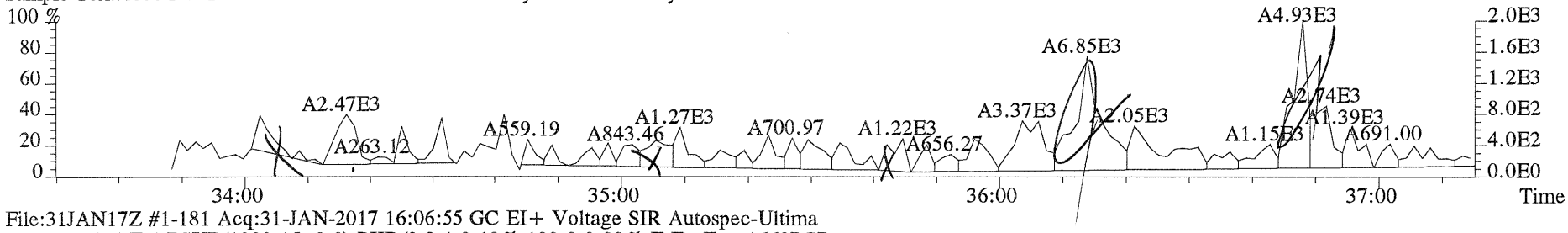

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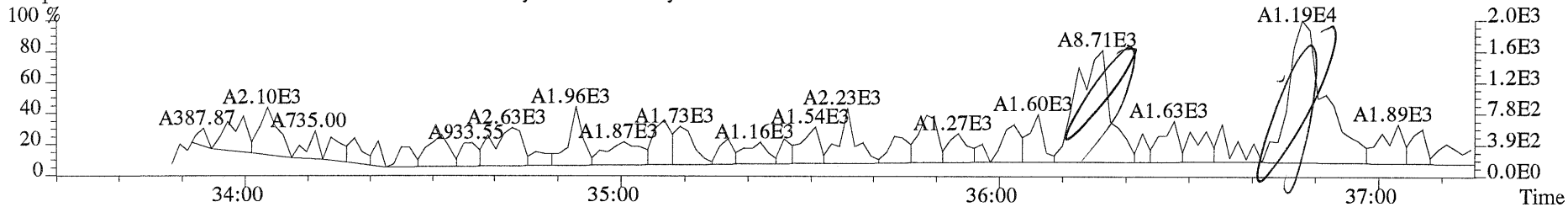

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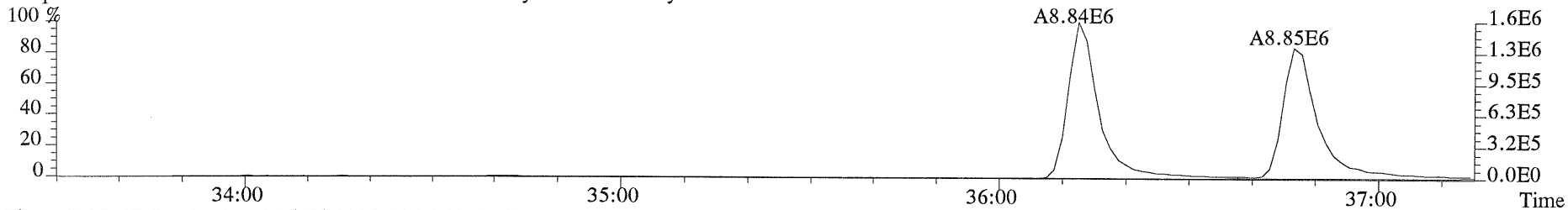
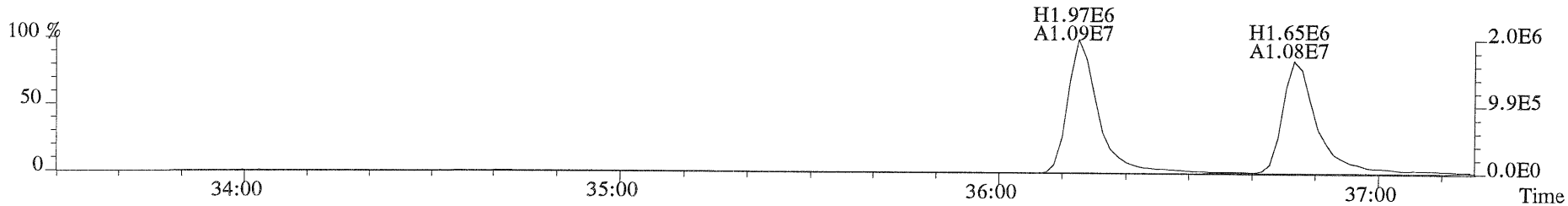
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-181 Acq:31-JAN-2017 16:06:55 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:03991-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-181 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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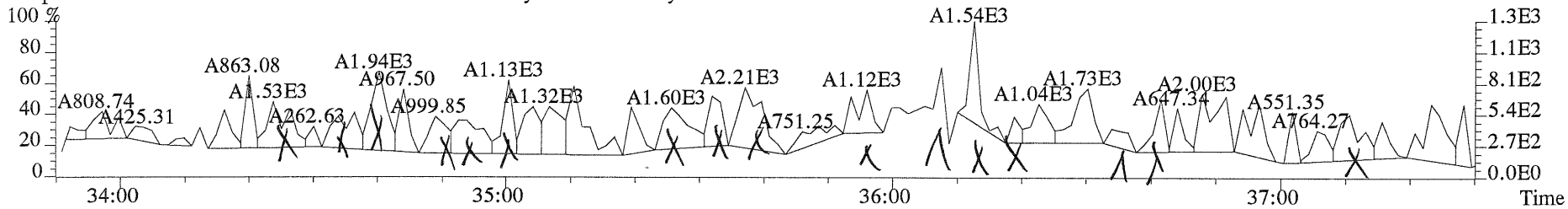

File:31JAN17Z #1-181 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
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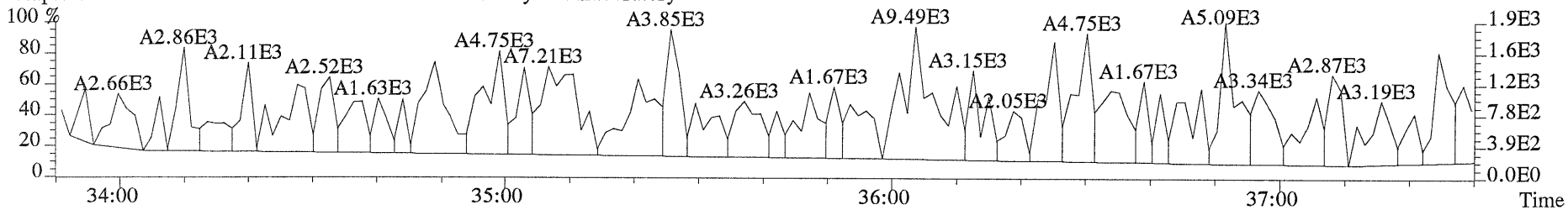
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-181 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
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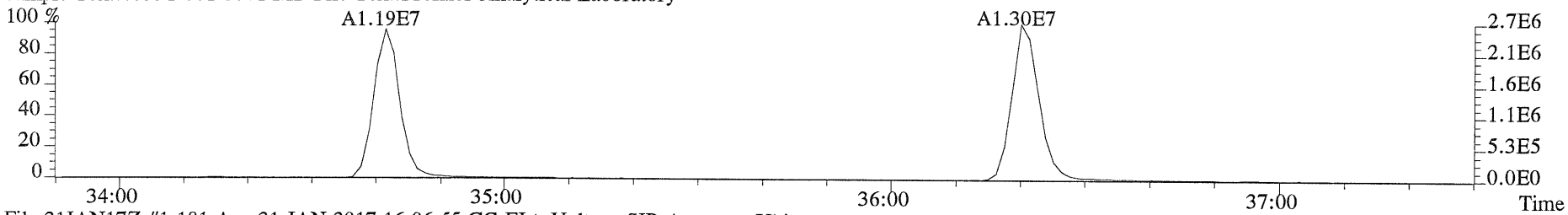
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



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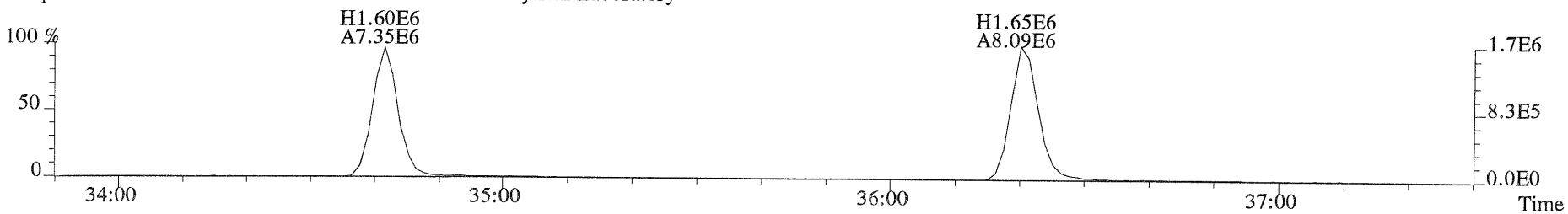
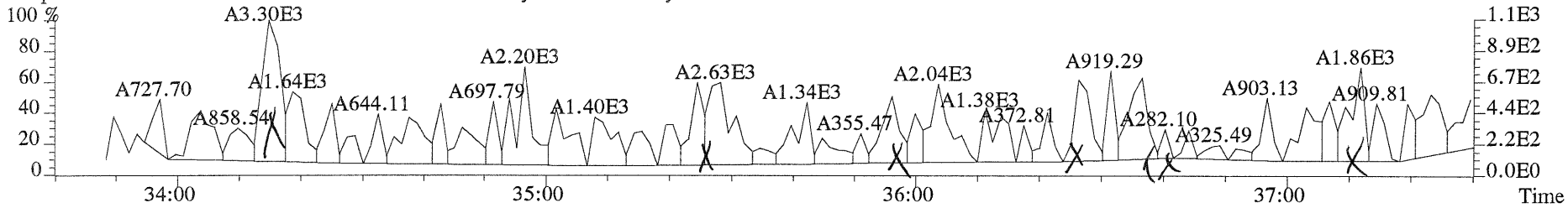
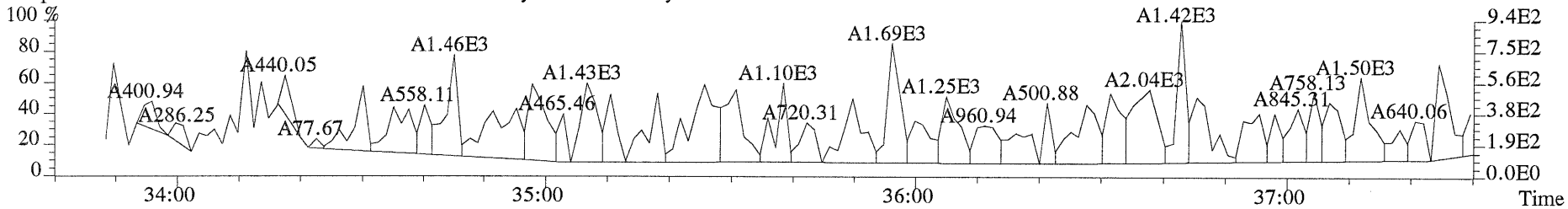
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-181 Acq:31-JAN-2017 16:06:55 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:03991-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-181 Acq:31-JAN-2017 16:06:55 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:03991-001-0001-MB File Text:Frontier Analytical Laboratory



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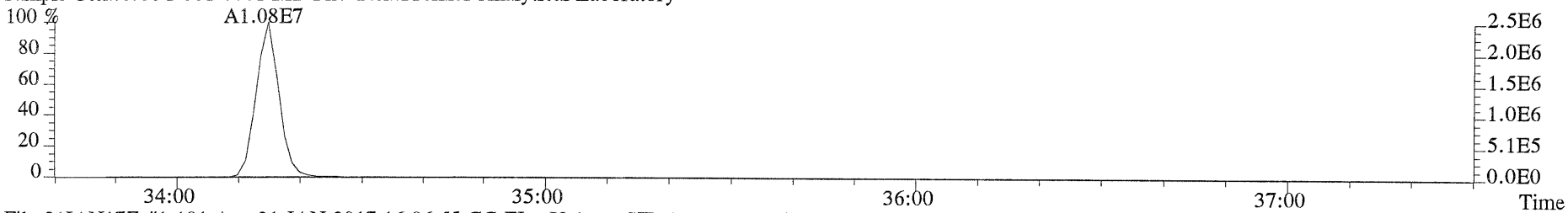
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



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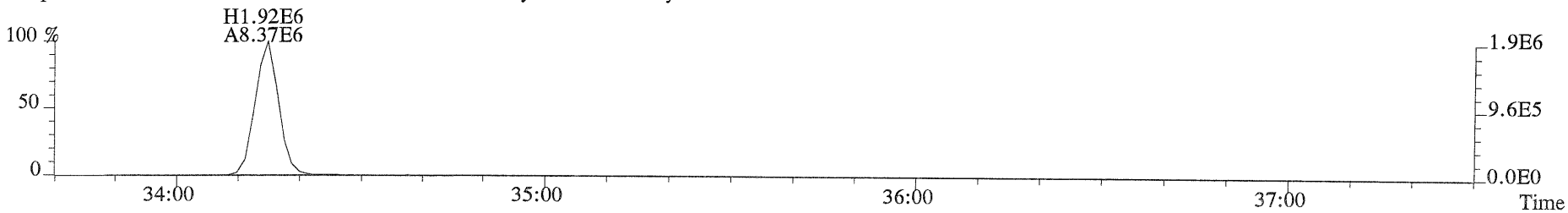
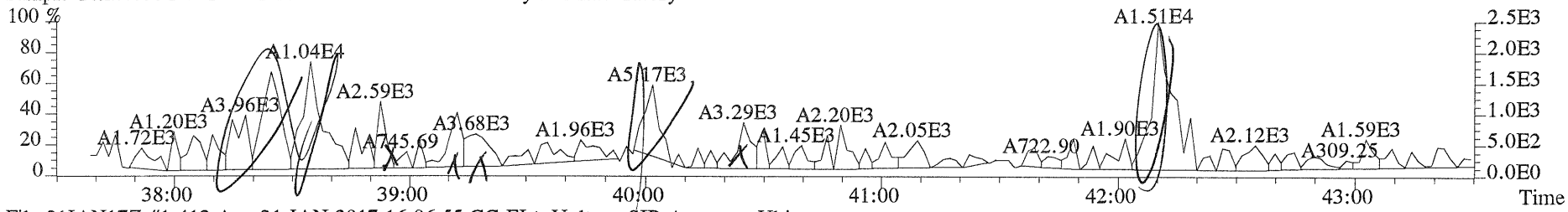
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-412 Acq:31-JAN-2017 16:06:55 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:03991-001-0001-MB File Text:Frontier Analytical Laboratory



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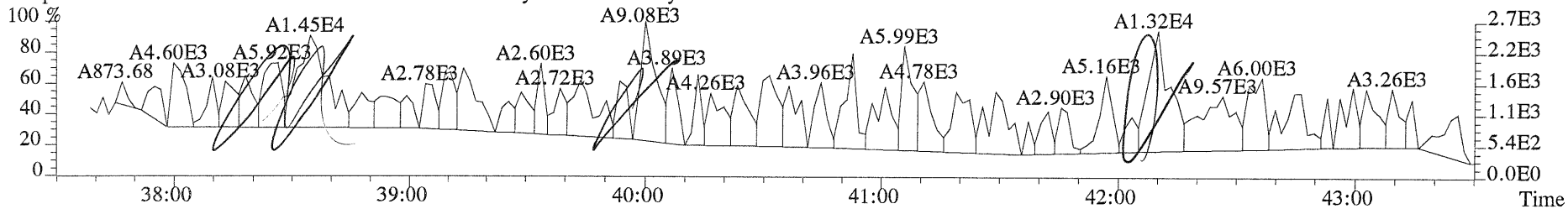
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



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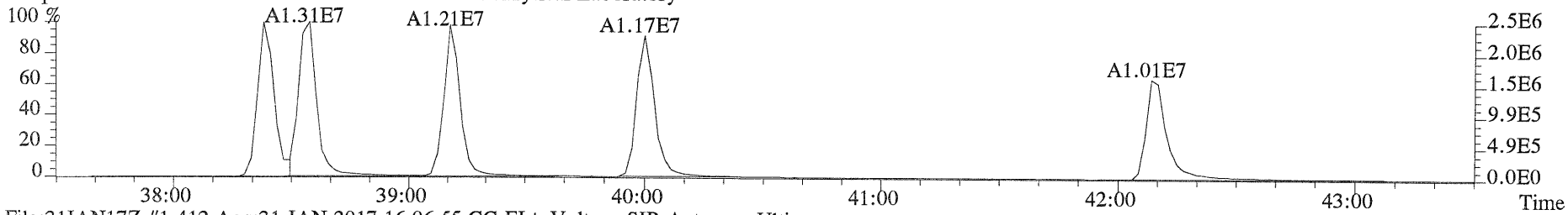

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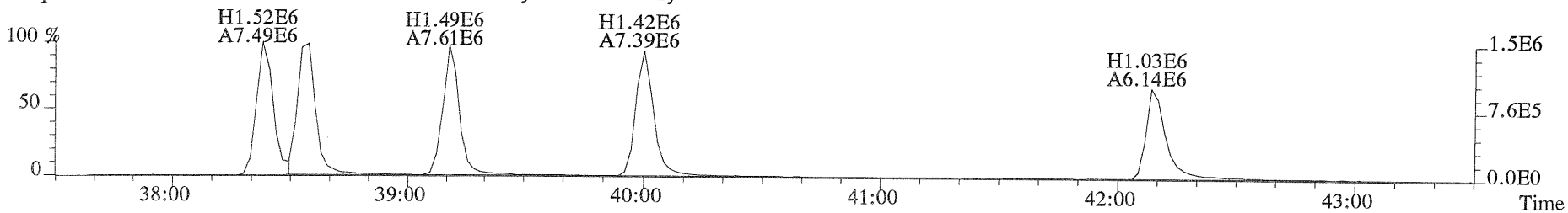
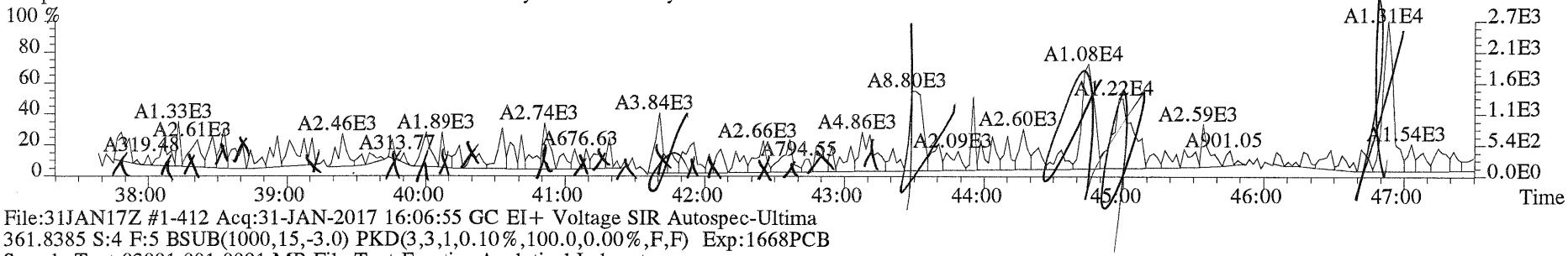


File:31JAN17Z #1-412 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-412 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
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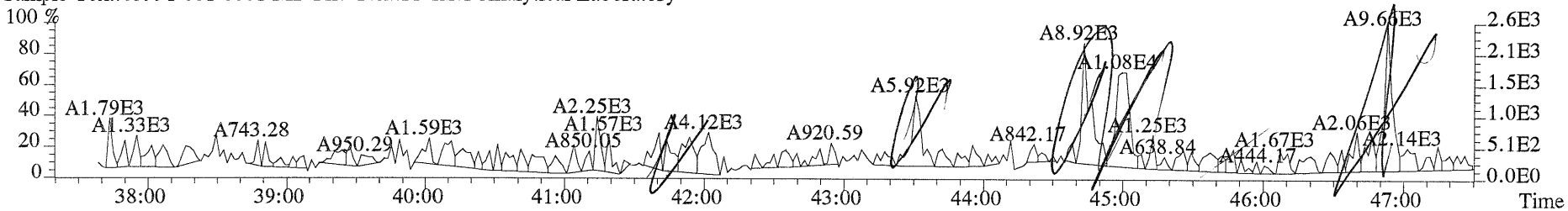
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



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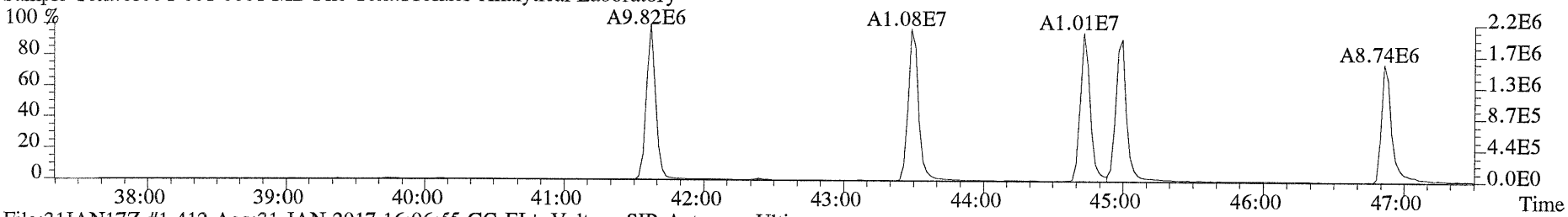
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-412 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
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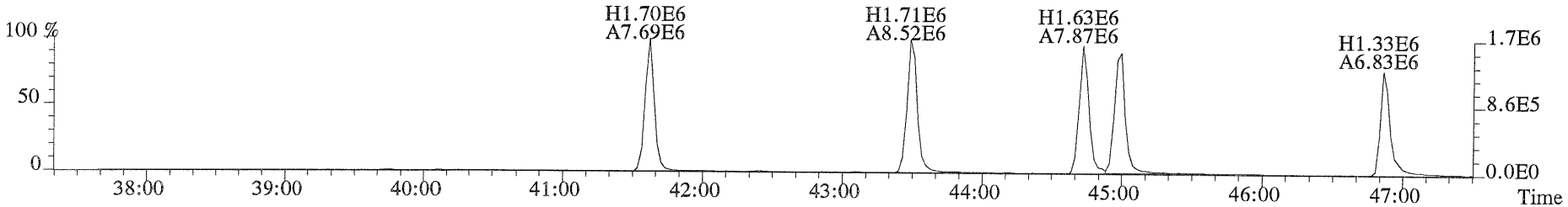
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



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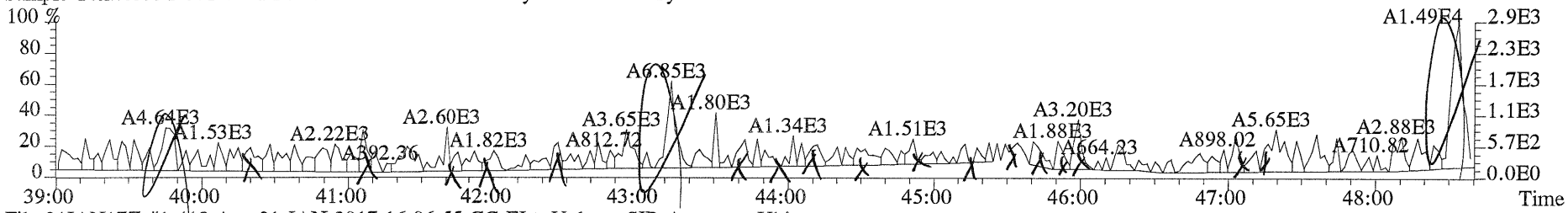
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



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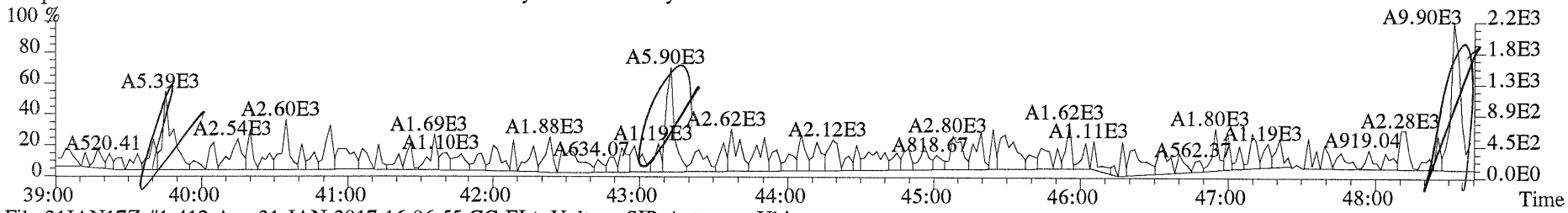
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



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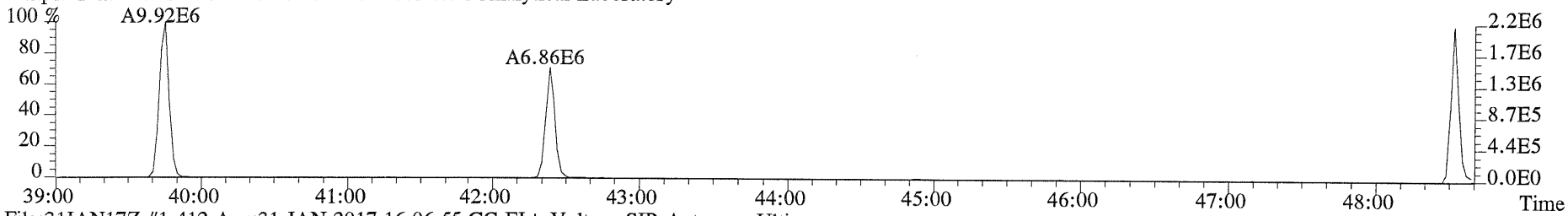
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



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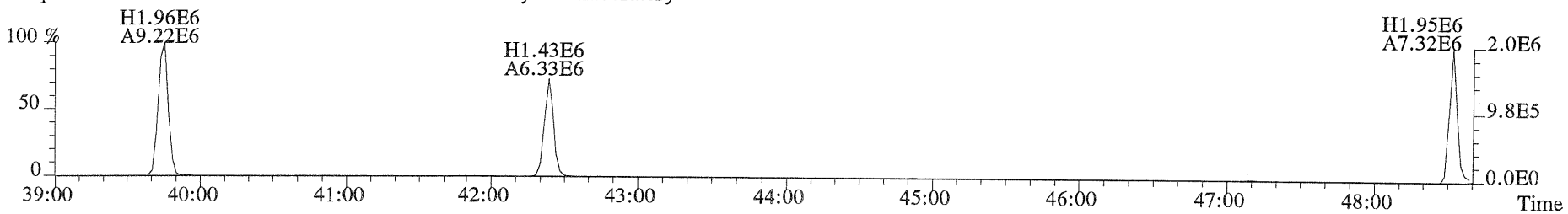
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



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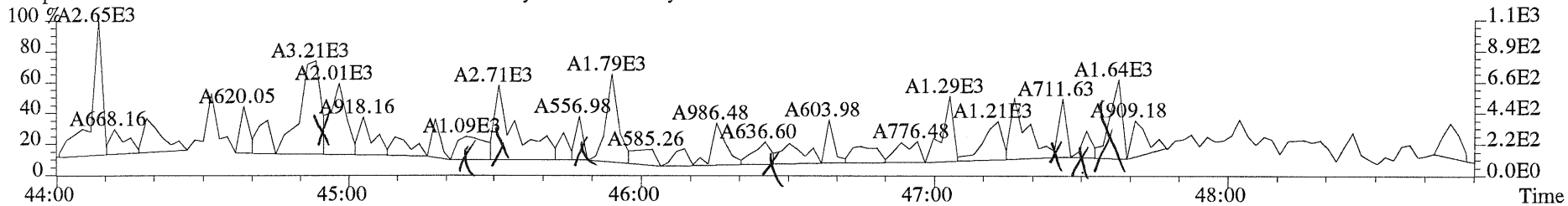
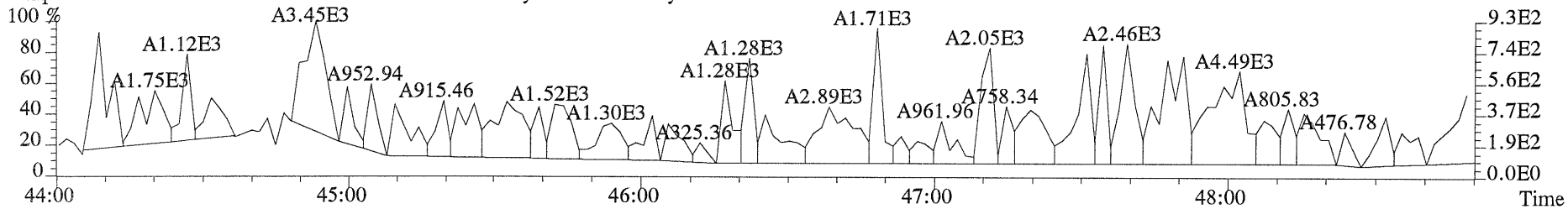
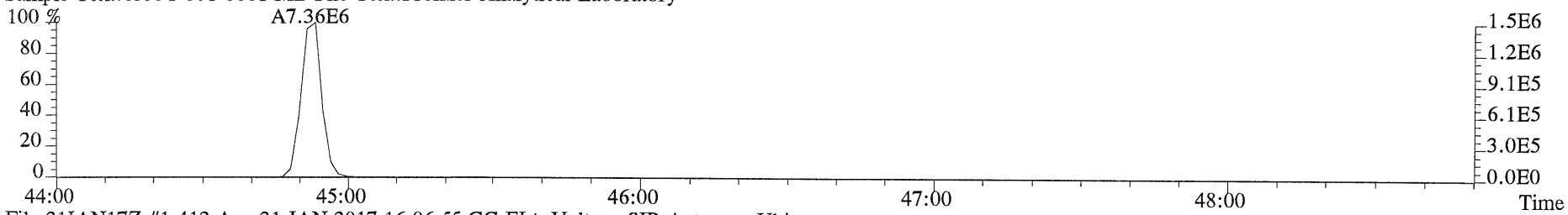
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



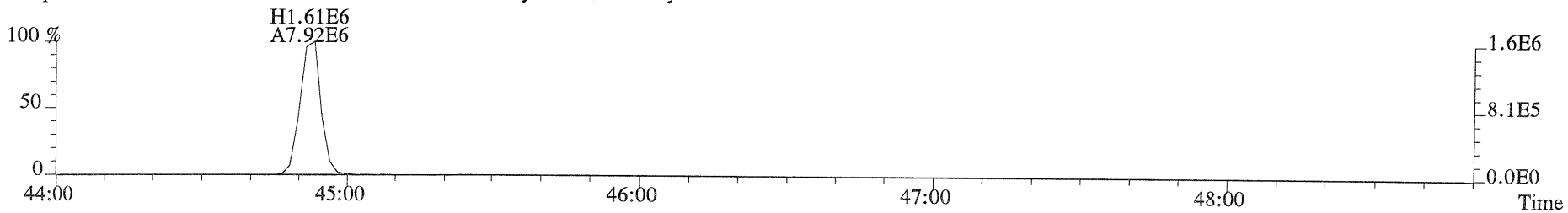
File:31JAN17Z #1-412 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



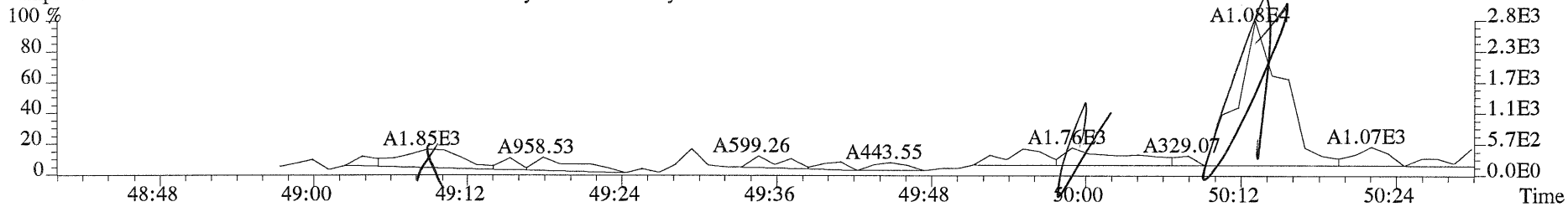
File:31JAN17Z #1-412 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



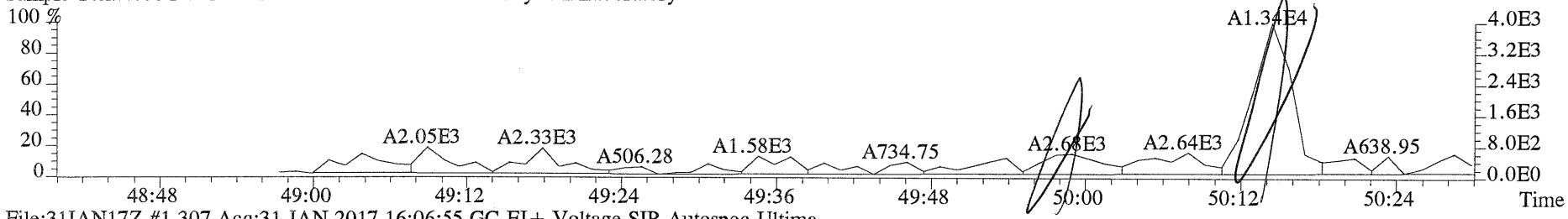
File:31JAN17Z #1-412 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



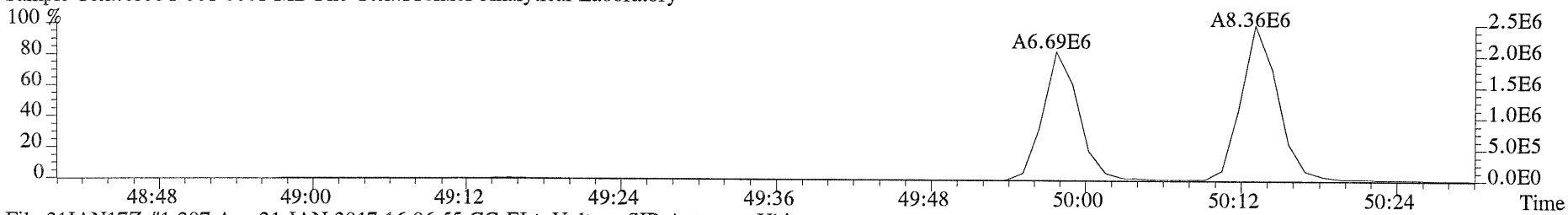
File:31JAN17Z #1-307 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



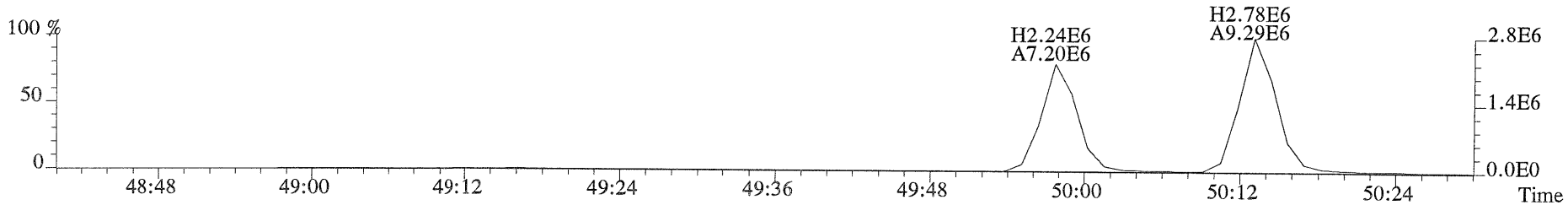
File:31JAN17Z #1-307 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



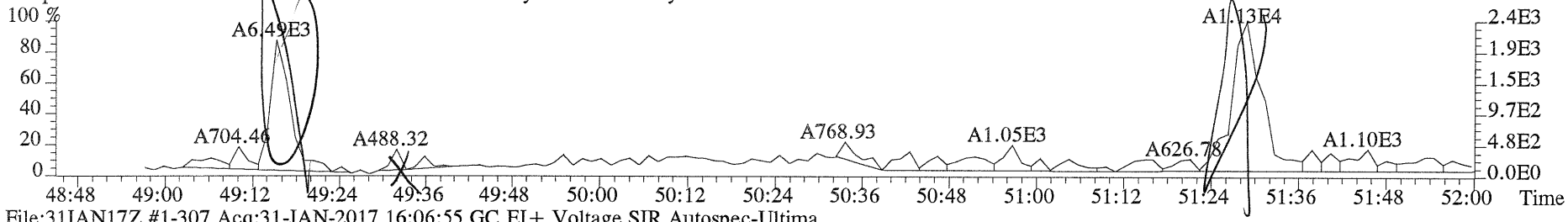
File:31JAN17Z #1-307 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



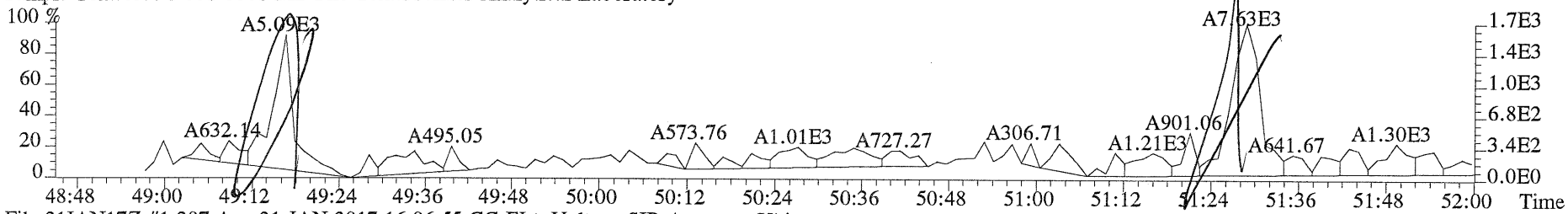
File:31JAN17Z #1-307 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



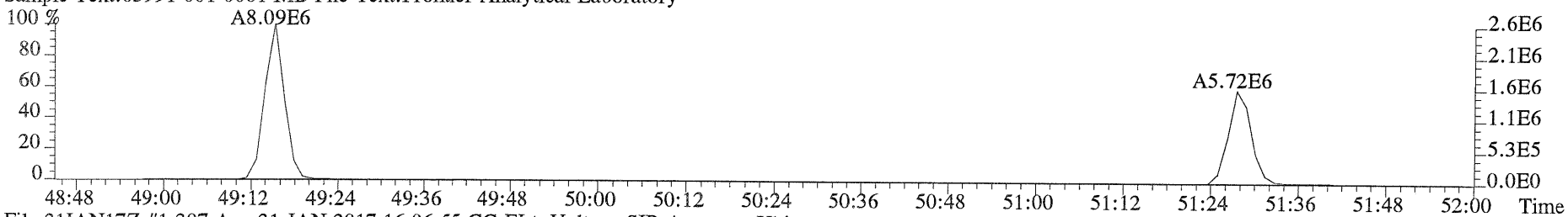
File:31JAN17Z #1-307 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



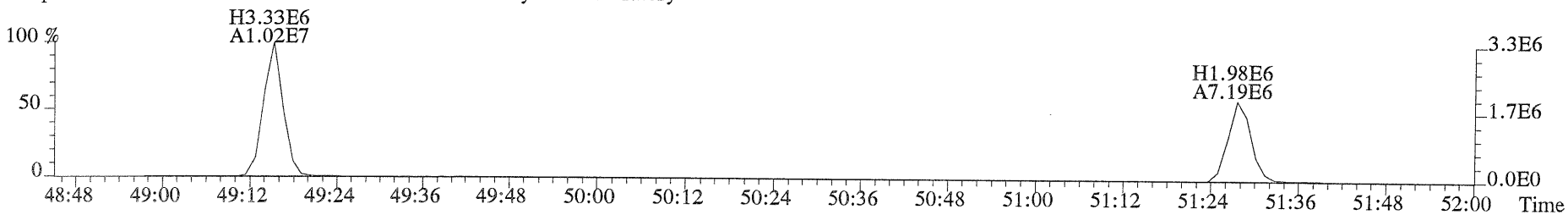
File:31JAN17Z #1-307 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



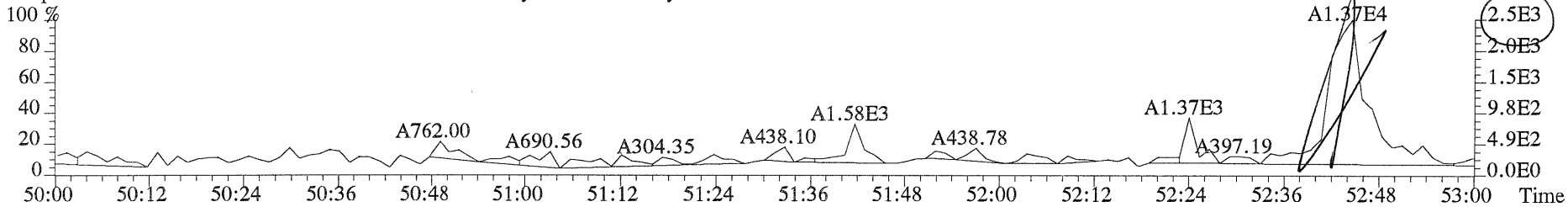
File:31JAN17Z #1-307 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



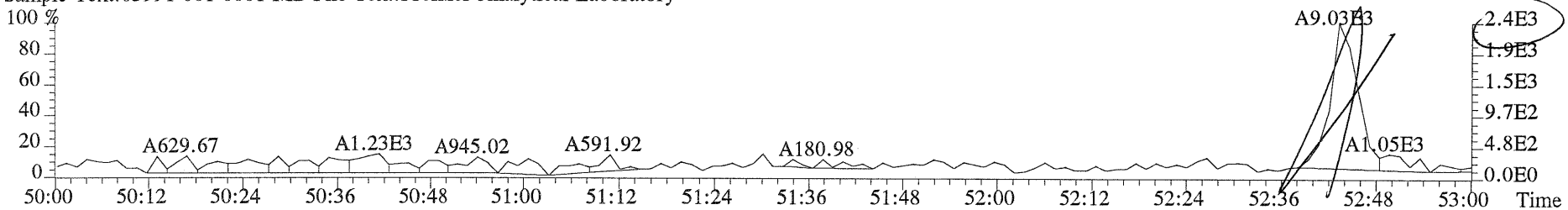
File:31JAN17Z #1-307 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



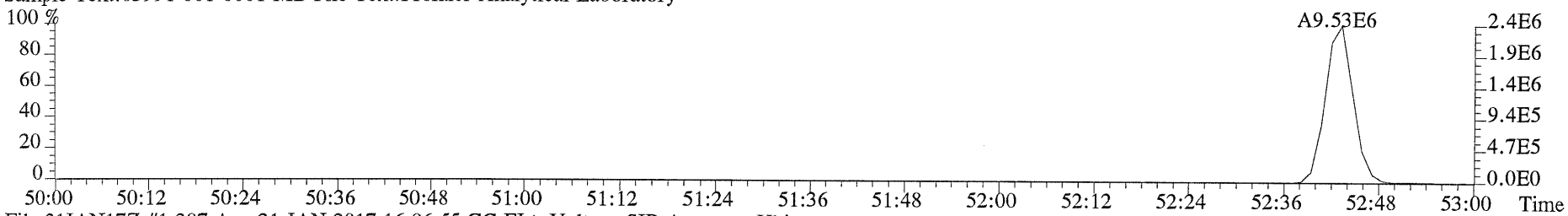
File:31JAN17Z #1-307 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



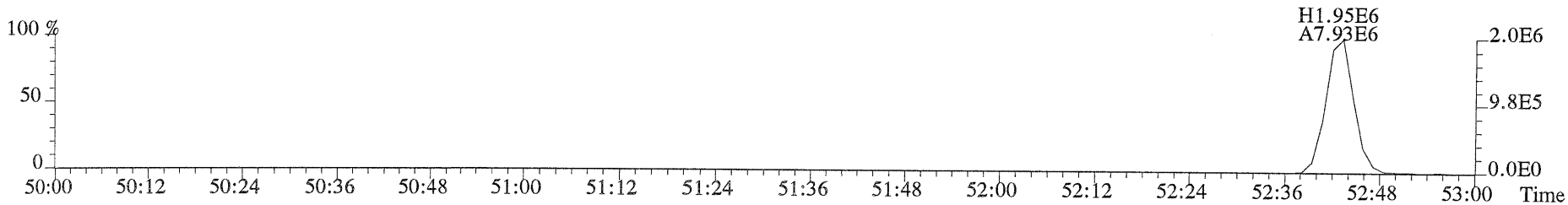
File:31JAN17Z #1-307 Acq:31-JAN-2017 16:06:55 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 16:06:55 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:03991-001-0001-MB File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 16:06:55 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:03991-001-0001-MB File Text:Frontier Analytical Laboratory



03991.001.0001.OPR

USEPA - ITD

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

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 31JAN17Z Sam:3

Ext. Date: 1/30/17 Shift: Day Analysis Date: 31-JAN-17 15:08:36

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	55.9	30.0 - 67.5
PCB-3	50	52.4	30.0 - 67.5
PCB-4	50	56.9	30.0 - 67.5
PCB-15	50	52.0	30.0 - 67.5
PCB-19	50	53.2	30.0 - 67.5
PCB-37	50	50.8	30.0 - 67.5
PCB-54	50	54.9	30.0 - 67.5
PCB-77	50	55.6	30.0 - 67.5
PCB-81	50	54.8	30.0 - 67.5
PCB-104	50	55.9	30.0 - 67.5
PCB-105	50	53.0	30.0 - 67.5
PCB-114	50	51.7	30.0 - 67.5
PCB-118/106	50	57.8	30.0 - 67.5
PCB-123	50	45.7	30.0 - 67.5
PCB-126	50	52.9	30.0 - 67.5
PCB-155	50	54.9	30.0 - 67.5
PCB-156	50	54.5	30.0 - 67.5
PCB-157	50	52.8	30.0 - 67.5
PCB-167	50	56.2	30.0 - 67.5
PCB-169	50	58.0	30.0 - 67.5
PCB-188	50	54.7	30.0 - 67.5
PCB-189	50	55.3	30.0 - 67.5
PCB-202	50	60.3	30.0 - 67.5
PCB-205	50	53.7	30.0 - 67.5
PCB-206	50	55.1	30.0 - 67.5
PCB-208	50	54.3	30.0 - 67.5
PCB-209	50	55.6	30.0 - 67.5

Analyst: [signature] Date: 2/3/17

USEPA - ITD

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

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Solvent OPR Data Filename: 31JAN17Z Sam:3

Ext. Date: 1/30/17 Shift: Day Analysis Date: 31-JAN-17 15:08:36

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	93.6	15.0 - 145
13C-PCB-3	100	94.2	15.0 - 145
13C-PCB-4	100	96.6	15.0 - 145
13C-PCB-15	100	91.9	15.0 - 145
13C-PCB-19	100	95.7	15.0 - 145
13C-PCB-37	100	98.3	15.0 - 145
13C-PCB-54	100	95.9	15.0 - 145
13C-PCB-77	100	95.6	40.0 - 145
13C-PCB-81	100	95.0	40.0 - 145
13C-PCB-104	100	96.9	40.0 - 145
13C-PCB-105	100	98.1	40.0 - 145
13C-PCB-114	100	99.2	40.0 - 145
13C-PCB-118	100	102	40.0 - 145
13C-PCB-123	100	98.4	40.0 - 145
13C-PCB-126	100	98.0	40.0 - 145
13C-PCB-155	100	95.8	40.0 - 145
13C-PCB-156	100	93.8	40.0 - 145
13C-PCB-157	100	101	40.0 - 145
13C-PCB-167	100	95.6	40.0 - 145
13C-PCB-169	100	92.4	40.0 - 145
13C-PCB-188	100	96.1	40.0 - 145
13C-PCB-189	100	94.1	40.0 - 145
13C-PCB-202	100	91.3	40.0 - 145
13C-PCB-205	100	98.3	40.0 - 145
13C-PCB-206	100	97.3	40.0 - 145
13C-PCB-208	100	97.2	40.0 - 145
13C-PCB-209	100	94.7	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	103	15.0 - 145
13C-PCB-111	100	95.8	40.0 - 145
13C-PCB-178	100	94.3	40.0 - 145

Analyst: _____ Date: 2/3/17

FAL ID: 03991-001-0001-OPR Filename: 31JAN17Z Sam:3 Acquired: 31-JAN-17 15:08:36 ICal: DAILY209FAL4-1-31-17
Client ID: OPR ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

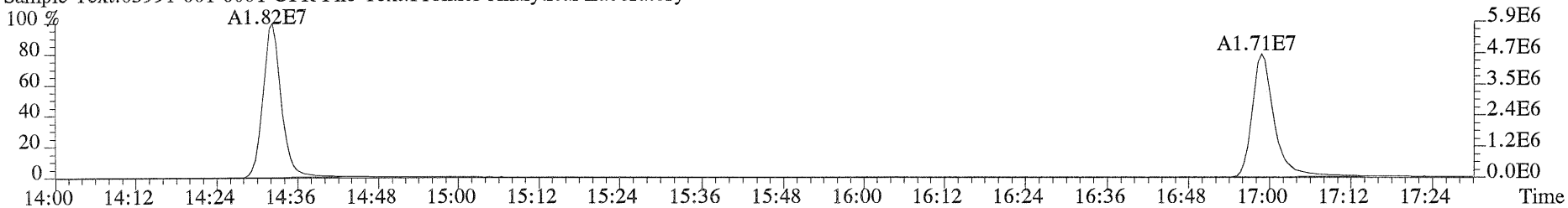
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	2.40e+07	3.14 y	14:32	0.98	55.9		2.50	-	-	*	
13C-PCB-1	4.39e+07	3.18 y	14:31	1.01	93.6		2.50				94
PCB-3	2.27e+07	3.11 y	16:59	1.03	52.4		2.50	-	-	*	
13C-PCB-3	4.21e+07	3.35 y	16:58	0.97	94.2		2.50				94
PCB-4	1.68e+07	1.48 y	18:13	1.05	56.9		2.50	-	-	*	
13C-PCB-4	2.80e+07	1.57 y	18:11	0.63	96.6		2.50				97
PCB-15	2.23e+07	1.55 y	23:46	1.07	52.0		2.50	-	-	*	
13C-PCB-15	4.00e+07	1.62 y	23:46	0.94	91.9		2.50				92
PCB-19	1.39e+07	1.05 y	22:06	1.03	53.2		2.50	-	-	*	
13C-PCB-19	2.53e+07	1.08 y	22:05	0.57	95.7		2.50				96
13C-PCB-9	4.62e+07	1.60 y	19:53	-	62.6		2.50				
PCB-37	1.83e+07	1.08 y	30:27	1.14	50.8		2.50	-	-	*	
13C-PCB-37	3.15e+07	1.09 y	30:26	1.14	98.3		2.50				98
PCB-54	1.65e+07	0.77 y	25:39	0.99	54.9		2.50	-	-	*	
13C-PCB-54	3.04e+07	0.78 y	25:38	1.12	95.9		2.50				96
PCB-104	1.33e+07	1.59 y	30:06	1.06	55.9		2.50	-	-	*	
13C-PCB-104	2.24e+07	1.58 y	30:03	0.82	96.9		2.50				97
13C-PCB-28	3.97e+07	1.04 y	26:44	1.38	103		2.50				103
13C-PCB-52	2.82e+07	0.78 y	28:59	-	56.7		2.50				
PCB-81	1.43e+07	0.78 y	36:13	1.07	54.8		2.50	-	-	*	
13C-PCB-81	2.45e+07	0.81 y	36:12	1.02	95.0		2.50				95
PCB-77	1.34e+07	0.77 y	36:48	0.99	55.6		2.50	-	-	*	
13C-PCB-77	2.44e+07	0.79 y	36:46	1.01	95.6		2.50				96
PCB-155	1.37e+07	1.30 y	34:16	1.01	54.9		2.50	-	-	*	
13C-PCB-155	2.48e+07	1.29 y	34:15	1.02	95.8		2.50				96
13C-PCB-111	2.70e+07	1.61 y	36:20	1.11	95.8		2.50				96
13C-PCB-101	2.54e+07	1.60 y	34:41	-	56.1		2.50				
PCB-123	1.33e+07	1.58 y	38:24	1.22	45.7		2.50	-	-	*	
13C-PCB-123	2.39e+07	1.59 y	38:23	1.07	98.4		2.50				98
PCB-118/106	1.52e+07	1.55 y	38:34	0.96	57.8		2.50	-	-	*	
13C-PCB-118	2.74e+07	1.61 y	38:34	1.18	102		2.50				102
PCB-114	1.38e+07	1.54 y	39:12	1.07	51.7		2.50	-	-	*	
13C-PCB-114	2.51e+07	1.63 y	39:10	1.11	99.2		2.50				99
PCB-105	1.31e+07	1.52 y	40:01	1.02	53.0		2.50	-	-	*	
13C-PCB-105	2.42e+07	1.58 y	39:60	1.09	98.1		2.50				98
PCB-126	1.11e+07	1.58 y	42:10	1.05	52.9		2.50	-	-	*	
13C-PCB-126	2.00e+07	1.56 y	42:10	0.90	98.0		2.50				98
PCB-167	1.24e+07	1.25 y	43:30	0.93	56.2		2.50	-	-	*	
13C-PCB-167	2.37e+07	1.28 y	43:30	1.09	95.6		2.50				96
PCB-156	1.14e+07	1.25 y	44:45	0.97	54.5		2.50	-	-	*	
13C-PCB-156	2.15e+07	1.26 y	44:45	1.01	93.8		2.50				94
PCB-157	1.23e+07	1.25 y	45:01	0.97	52.8		2.50	-	-	*	
13C-PCB-157	2.39e+07	1.22 y	44:59	1.04	101		2.50				101
PCB-169	9.75e+06	1.26 y	46:53	0.92	58.0		2.50	-	-	*	
13C-PCB-169	1.83e+07	1.31 y	46:53	0.87	92.4		2.50				92
PCB-188	1.46e+07	1.05 y	39:47	1.07	54.7		2.50	-	-	*	
13C-PCB-188	2.49e+07	1.08 y	39:45	1.14	96.1		2.50				96
PCB-189	1.04e+07	1.05 y	48:33	1.04	55.3		2.50	-	-	*	
13C-PCB-189	1.81e+07	1.07 y	48:32	0.85	94.1		2.50				94
PCB-202	1.03e+07	0.90 y	44:54	0.90	60.3		2.50	-	-	*	
13C-PCB-202	1.90e+07	0.92 y	44:53	0.92	91.3		2.50				91
13C-PCB-178	1.71e+07	1.07 y	42:23	0.80	94.3		2.50				94
13C-PCB-138	2.27e+07	1.29 y	41:37	-	55.4		2.50				

FAL ID: 03991-001-0001-OPR Filename: 31JAN17Z Sam:3 Acquired: 31-JAN-17 15:08:36 ICal: DAILY209FAL4-1-31-17
Client ID: OPR ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

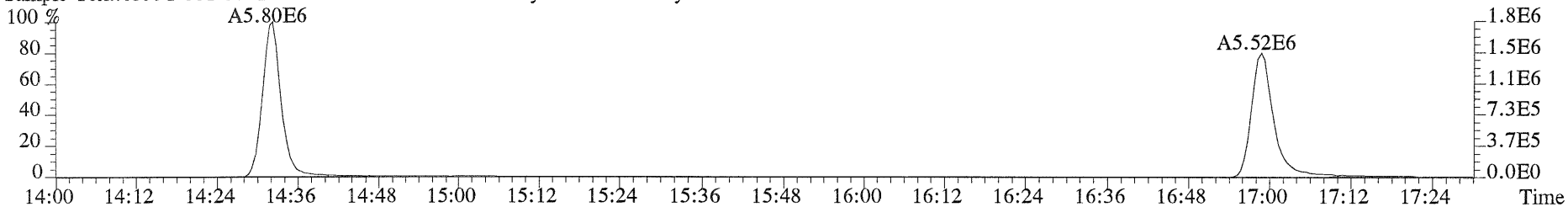
PCB-205	1.19e+07	0.89 y	50:14	1.07	53.7	2.50	-	-	*	
13C-PCB-205	2.06e+07	0.94 y	50:13	1.19	98.3	2.50				98
PCB-208	1.10e+07	1.35 y	49:17	0.91	54.3	2.50	-	-	*	
13C-PCB-208	2.24e+07	0.79 y	49:15	1.31	97.2	2.50				97
PCB-206	8.24e+06	1.34 y	51:29	0.93	55.1	2.50	-	-	*	
13C-PCB-206	1.61e+07	0.80 y	51:29	0.94	97.3	2.50				97
PCB-209	1.18e+07	1.18 y	52:45	0.99	55.6	2.50	-	-	*	
13C-PCB-209	2.15e+07	1.21 y	52:43	1.29	94.7	2.50				95
13C-PCB-194	1.76e+07	0.93 y	49:58	-	55.8	2.50				

Analyst: _____ Date: 2/3/17

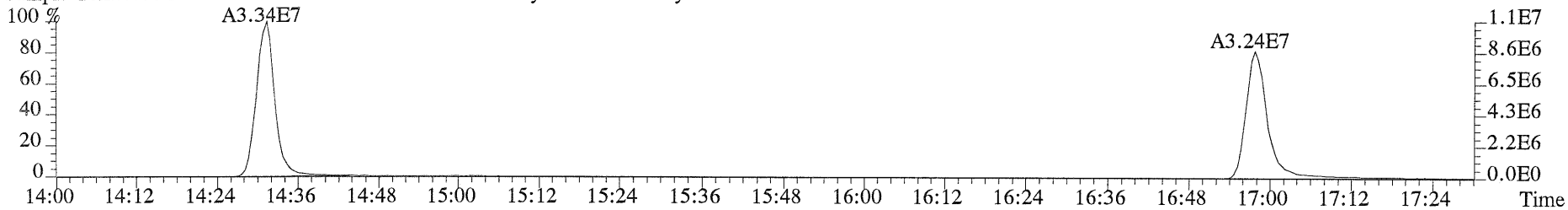
File:31JAN17Z #1-783 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



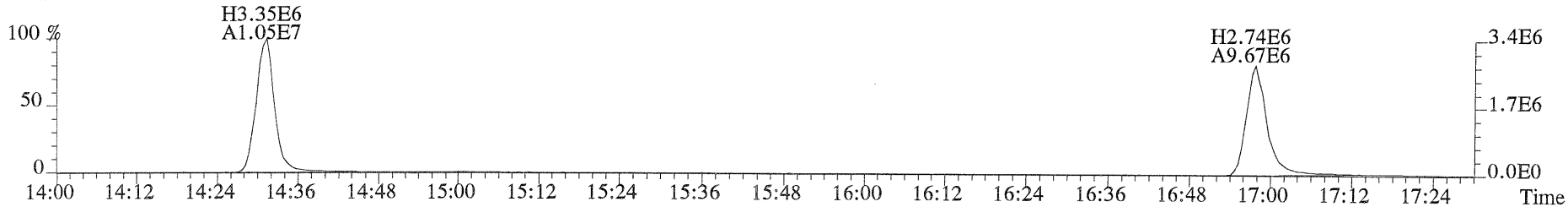
File:31JAN17Z #1-783 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



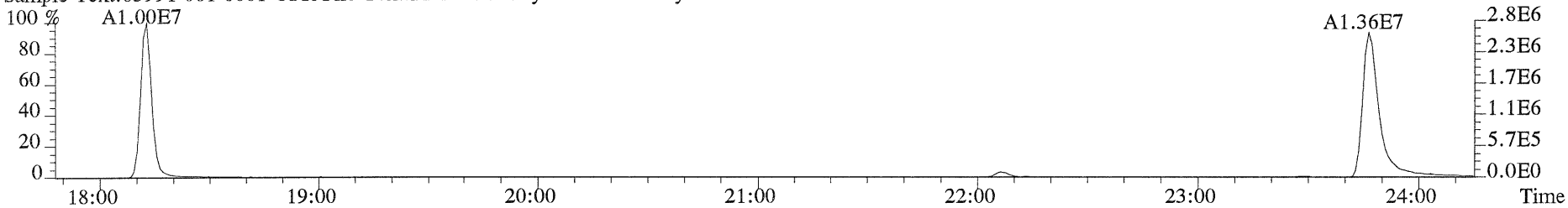
File:31JAN17Z #1-783 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



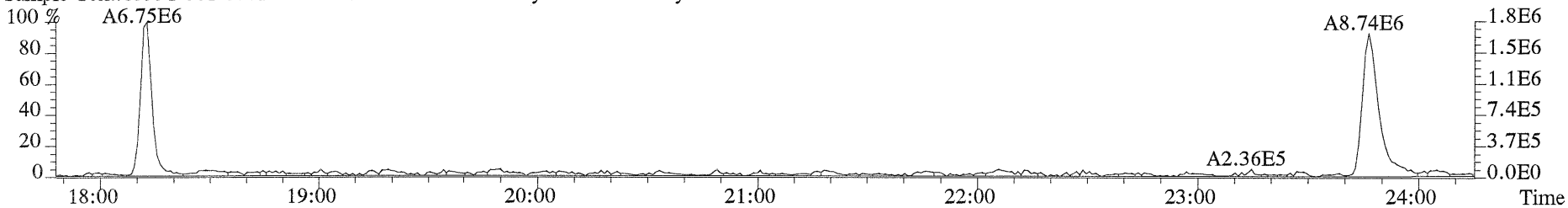
File:31JAN17Z #1-783 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



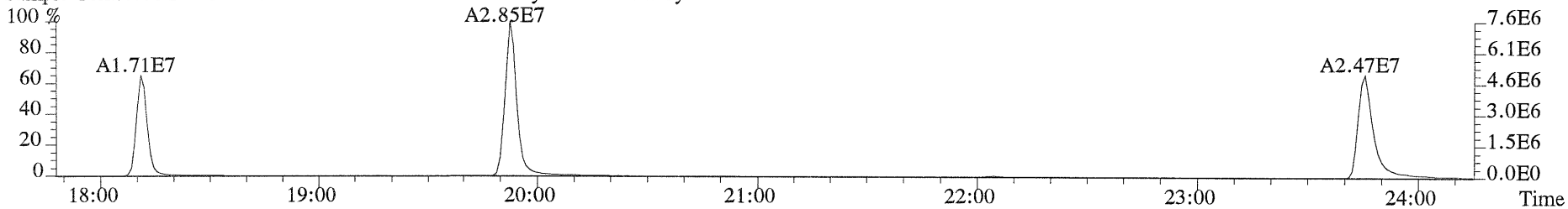
File:31JAN17Z #1-509 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



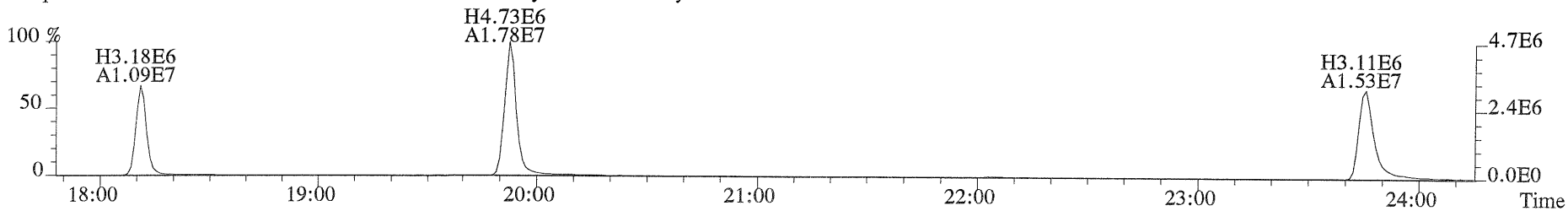
File:31JAN17Z #1-509 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



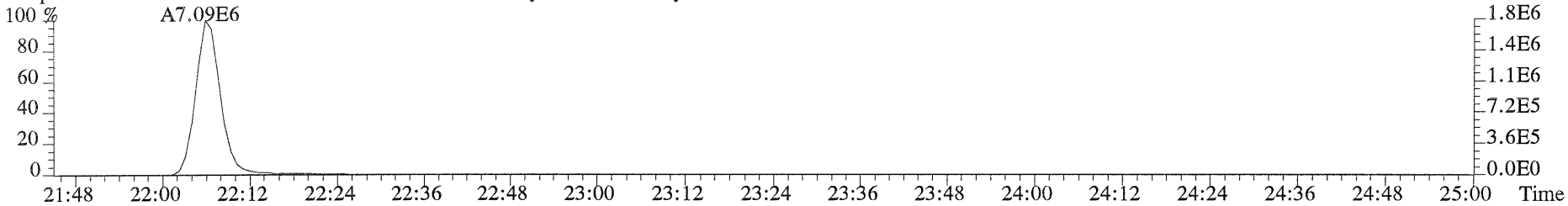
File:31JAN17Z #1-509 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



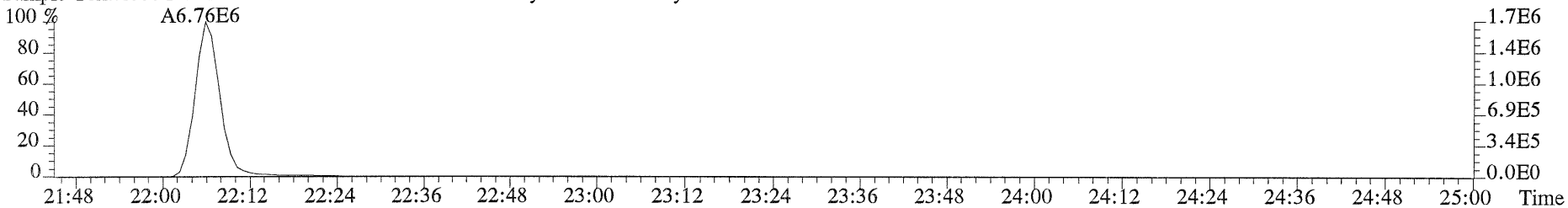
File:31JAN17Z #1-509 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



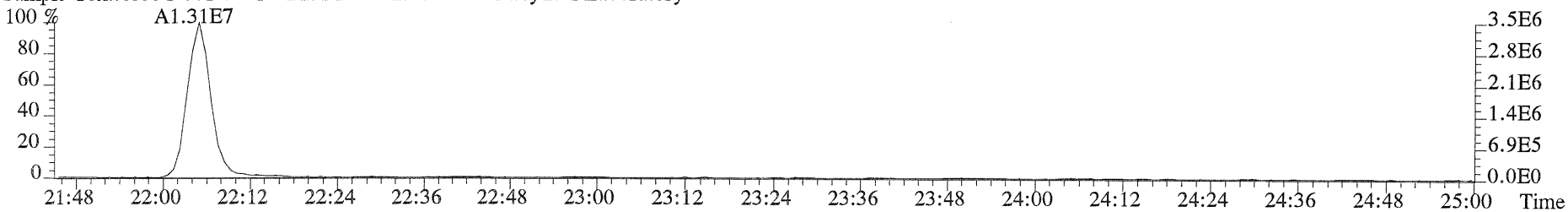
File:31JAN17Z #1-509 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



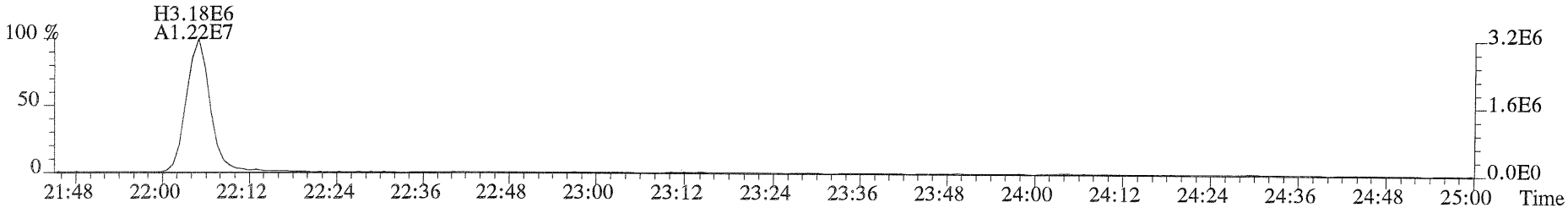
File:31JAN17Z #1-509 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



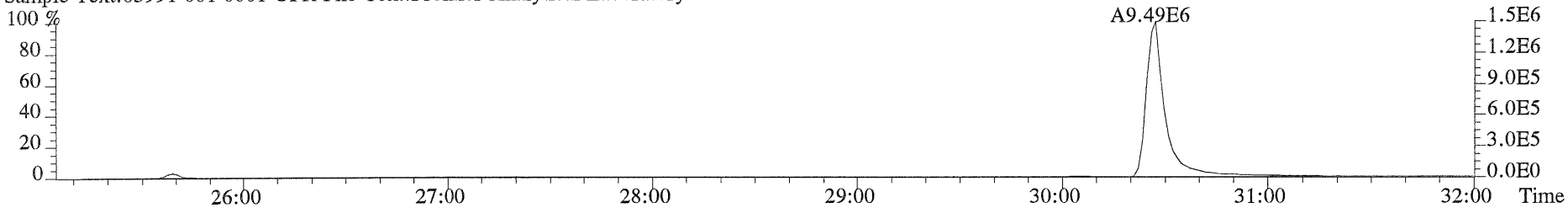
File:31JAN17Z #1-509 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



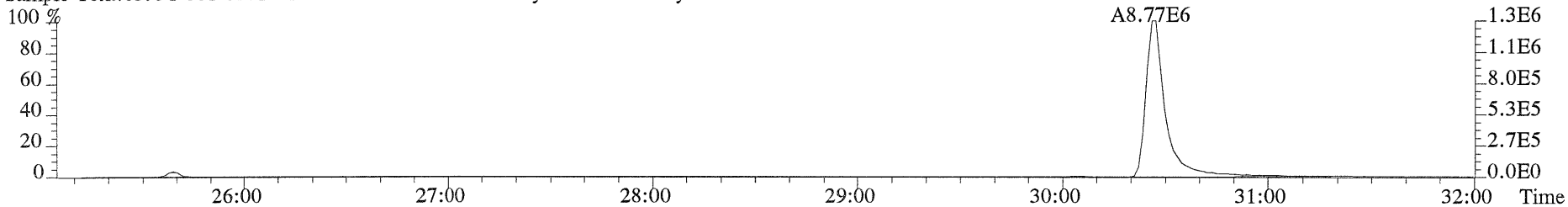
File:31JAN17Z #1-509 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



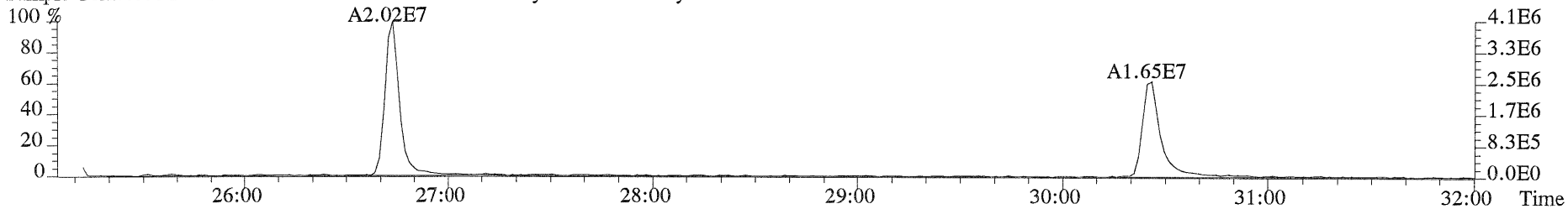
File:31JAN17Z #1-407 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



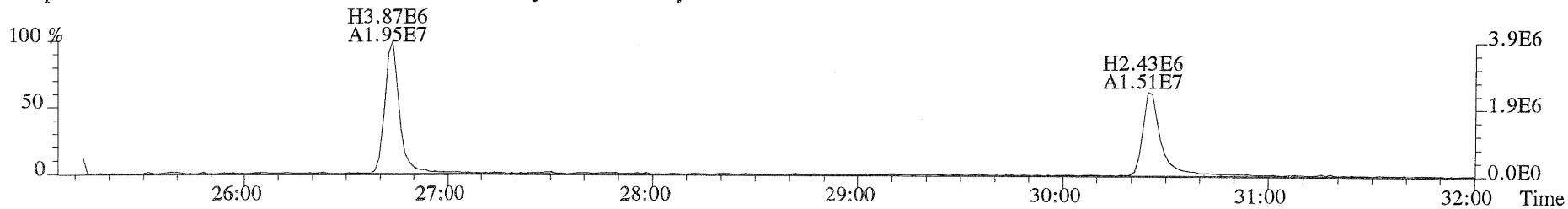
File:31JAN17Z #1-407 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



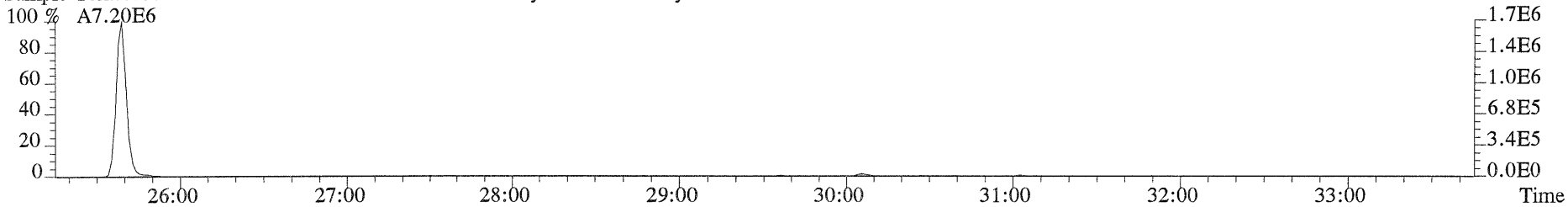
File:31JAN17Z #1-407 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



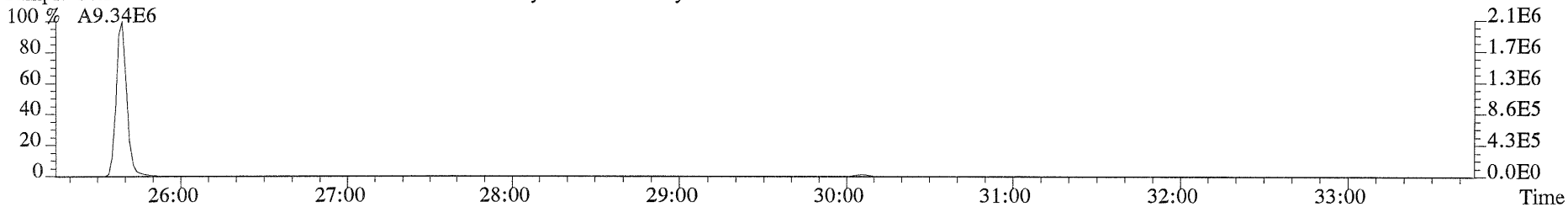
File:31JAN17Z #1-407 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



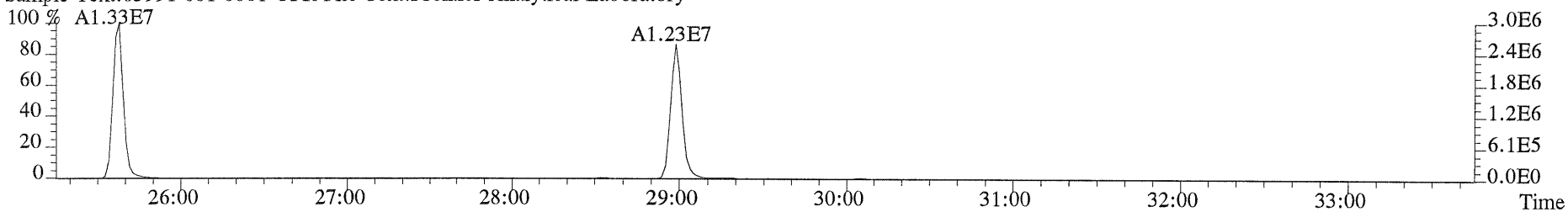
File:31JAN17Z #1-407 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



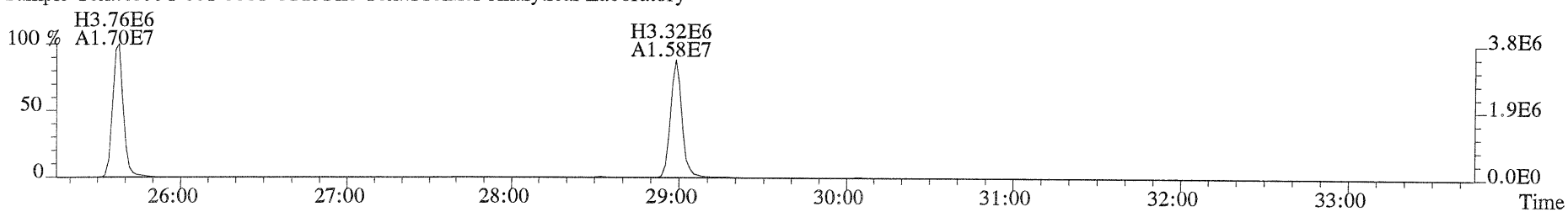
File:31JAN17Z #1-407 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



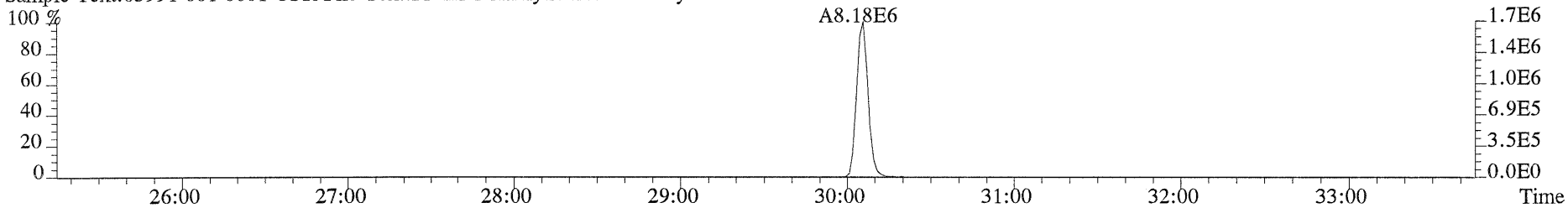
File:31JAN17Z #1-407 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



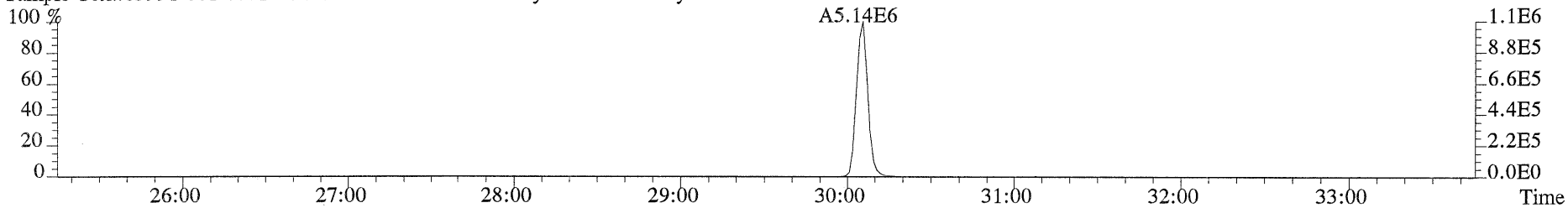
File:31JAN17Z #1-407 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



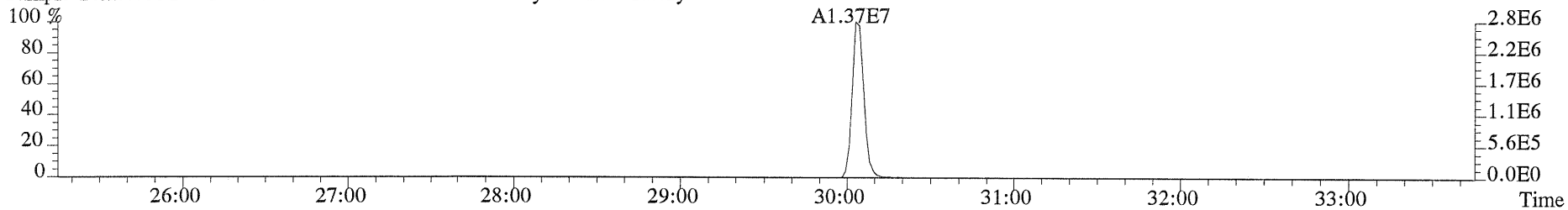
File:31JAN17Z #1-407 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



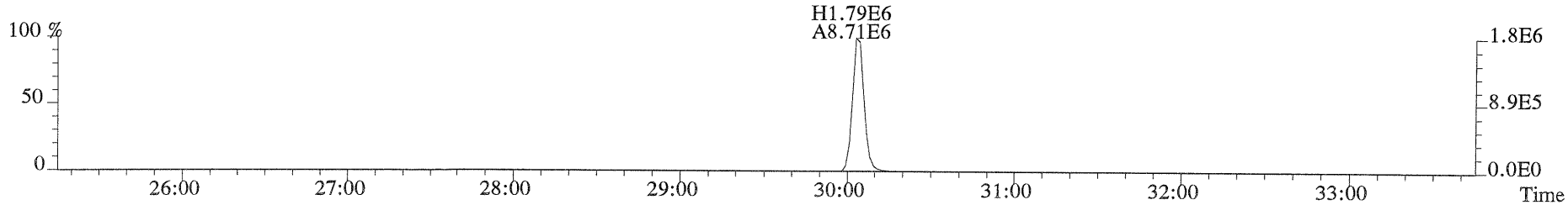
File:31JAN17Z #1-407 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



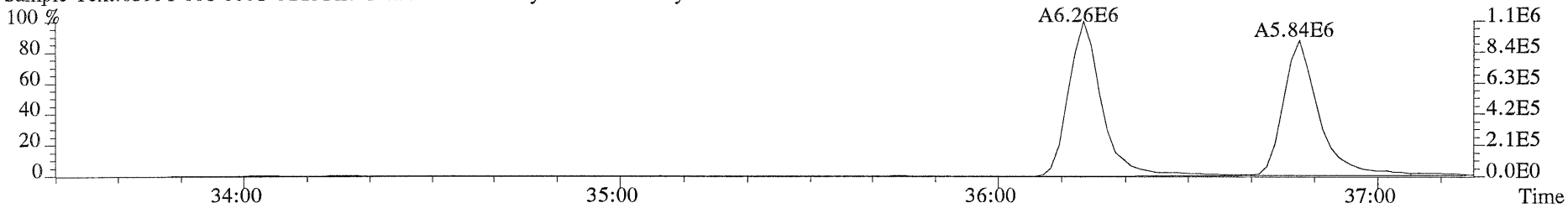
File:31JAN17Z #1-407 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



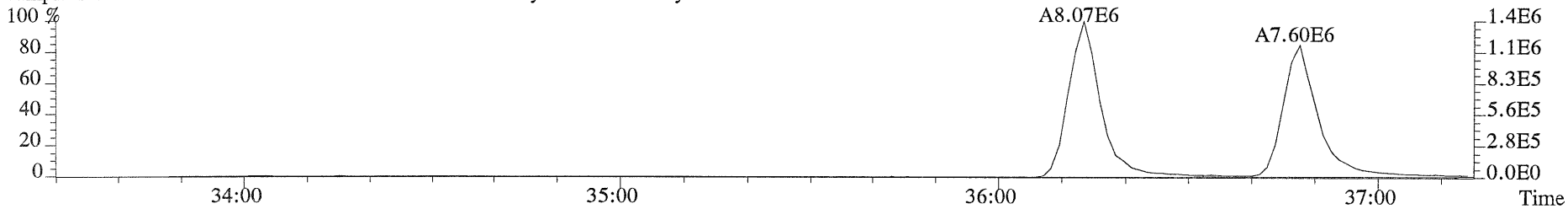
File:31JAN17Z #1-407 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



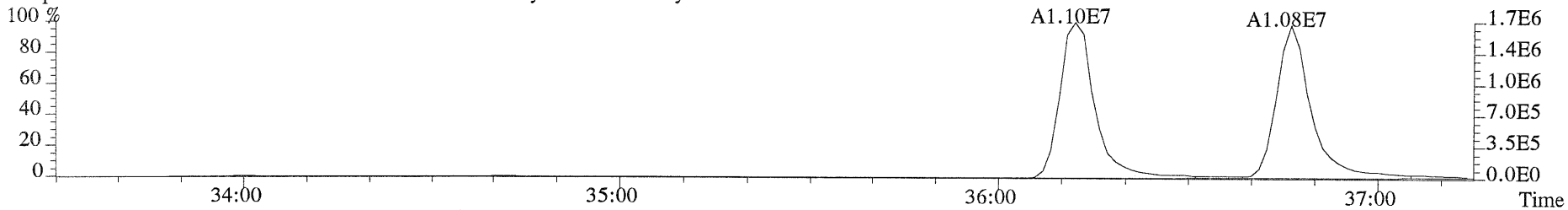
File:31JAN17Z #1-181 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



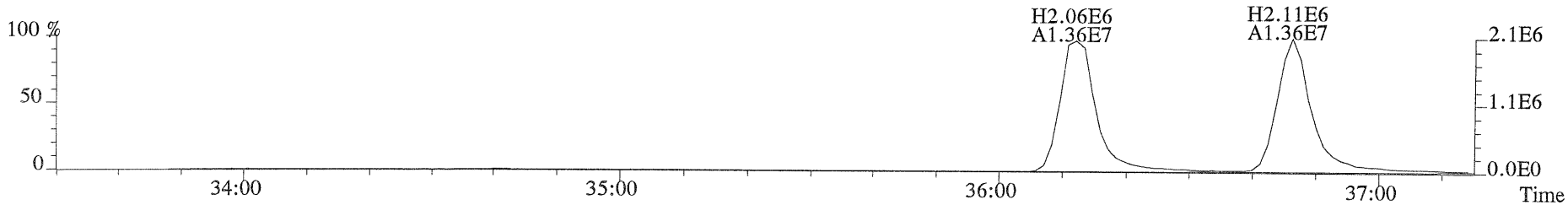
File:31JAN17Z #1-181 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



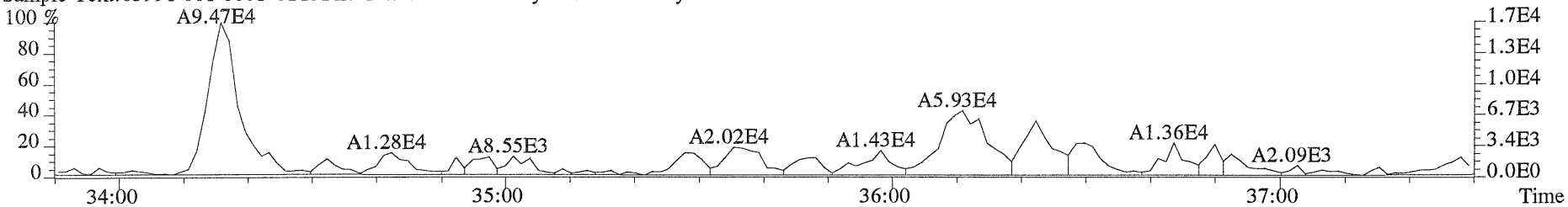
File:31JAN17Z #1-181 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



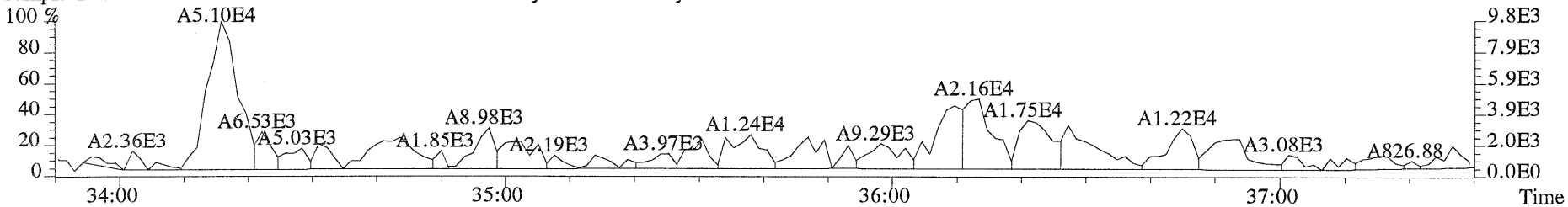
File:31JAN17Z #1-181 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



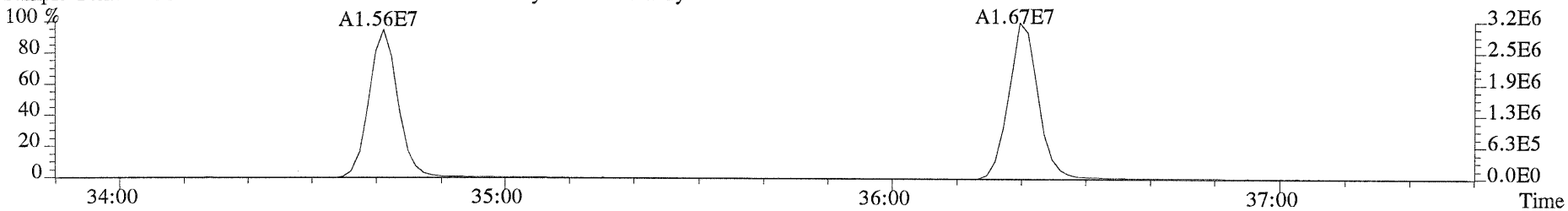
File:31JAN17Z #1-181 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



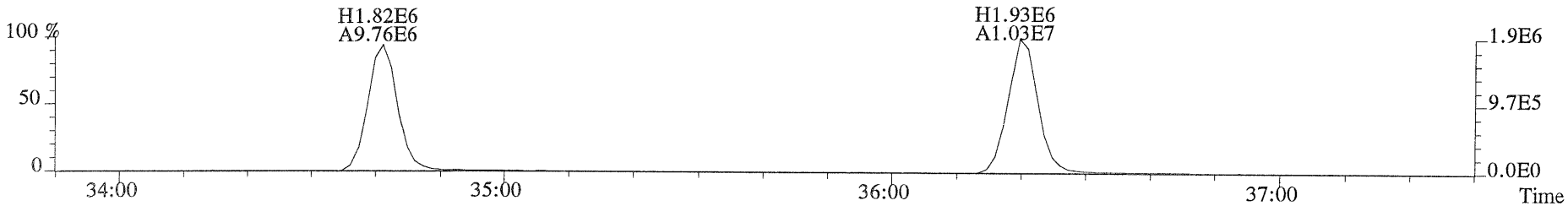
File:31JAN17Z #1-181 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



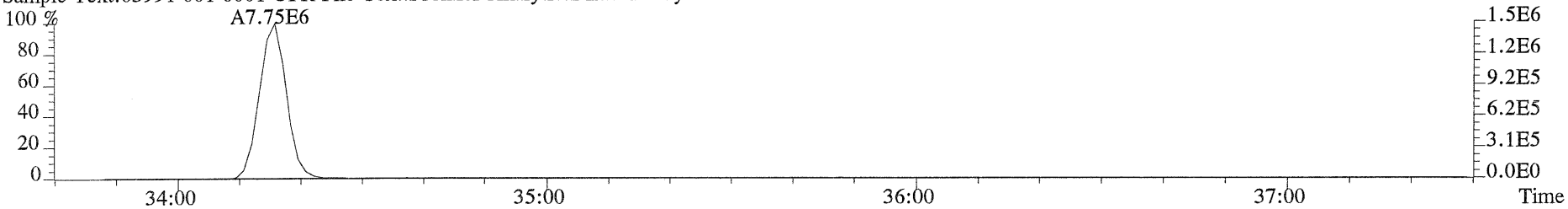
File:31JAN17Z #1-181 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



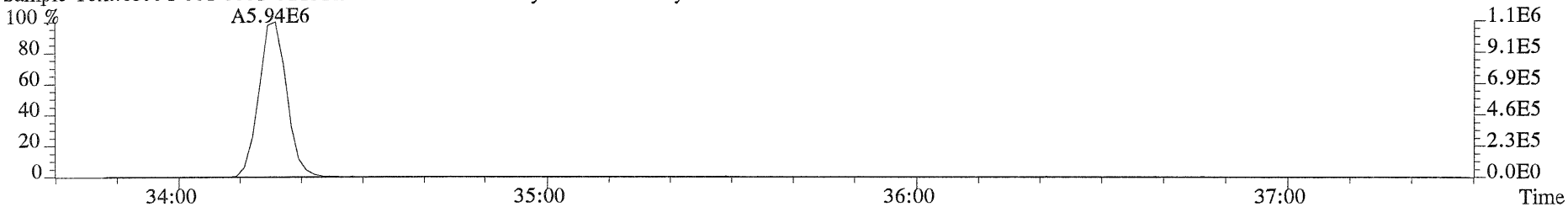
File:31JAN17Z #1-181 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



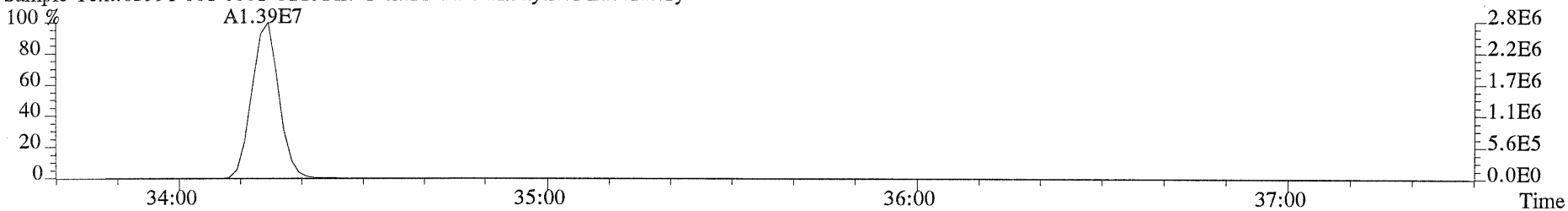
File:31JAN17Z #1-181 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



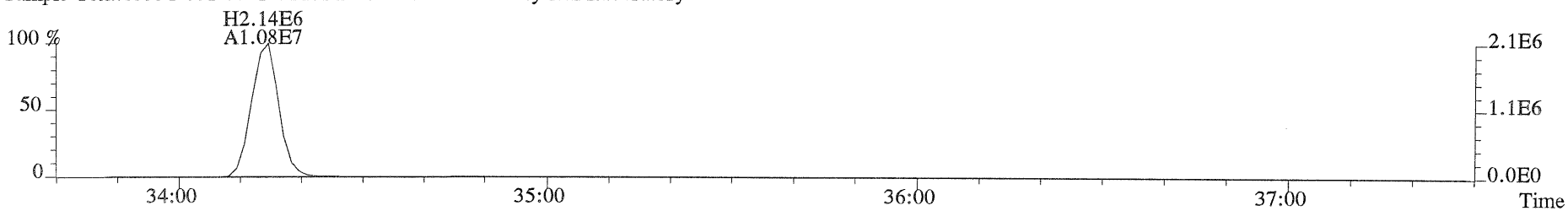
File:31JAN17Z #1-181 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



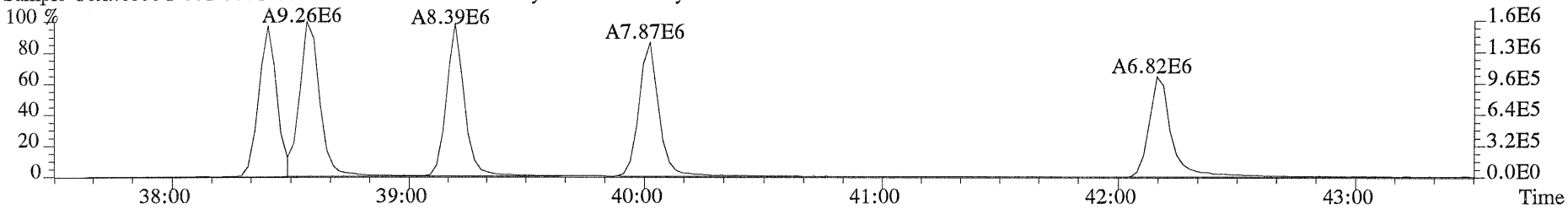
File:31JAN17Z #1-181 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



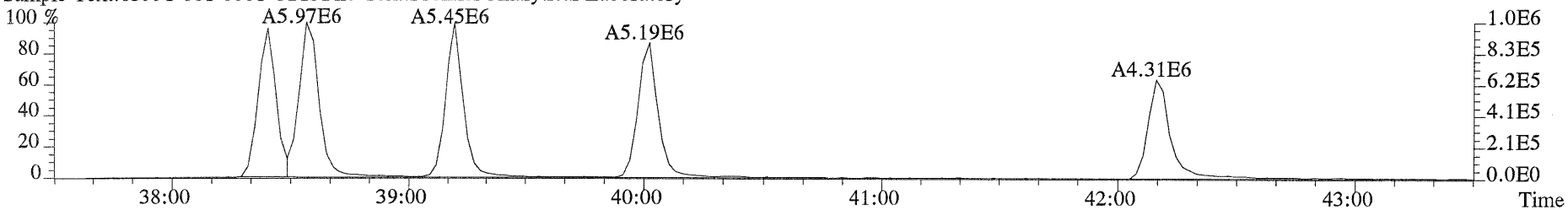
File:31JAN17Z #1-181 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



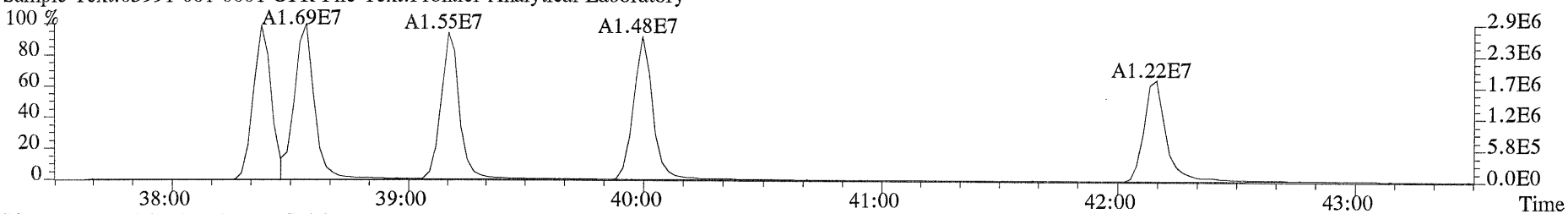
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



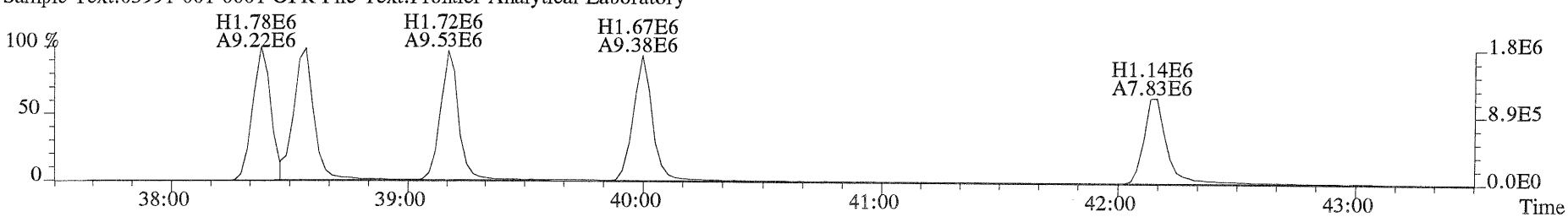
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



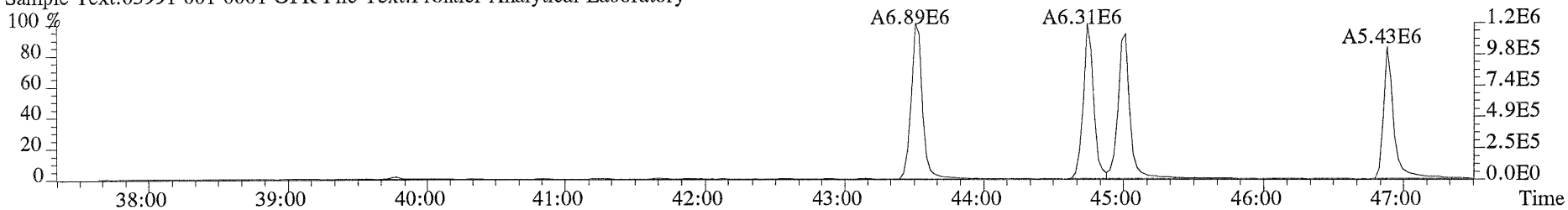
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



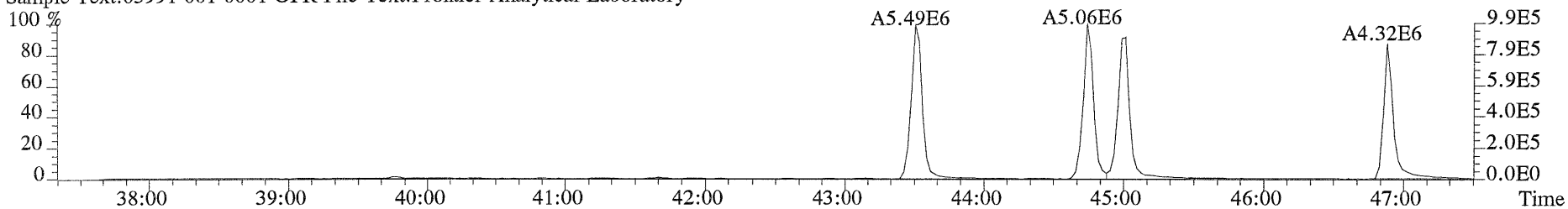
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



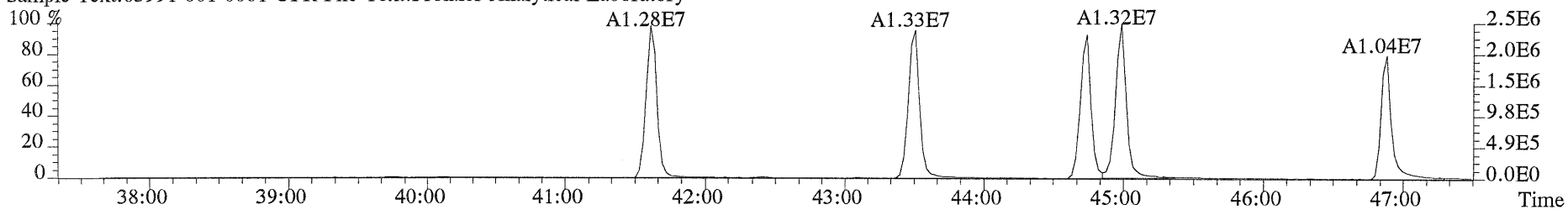
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



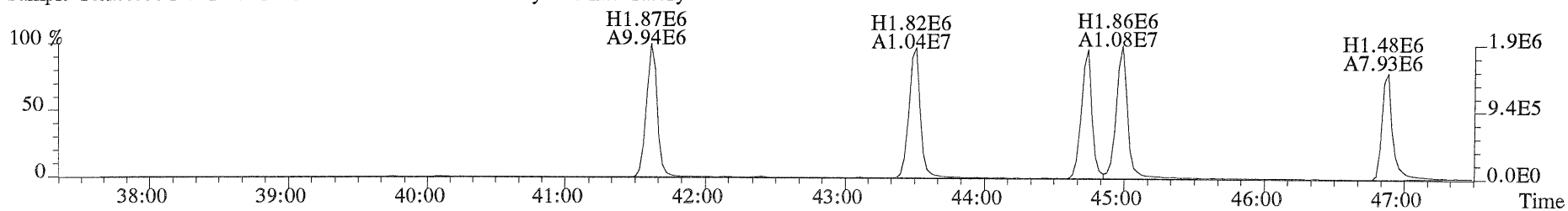
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



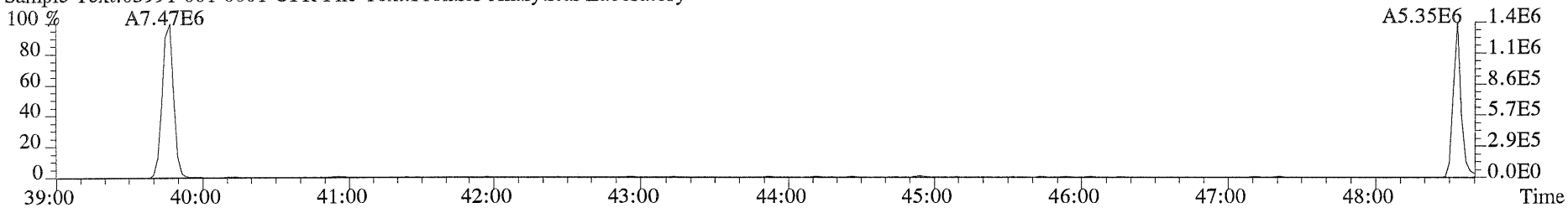
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



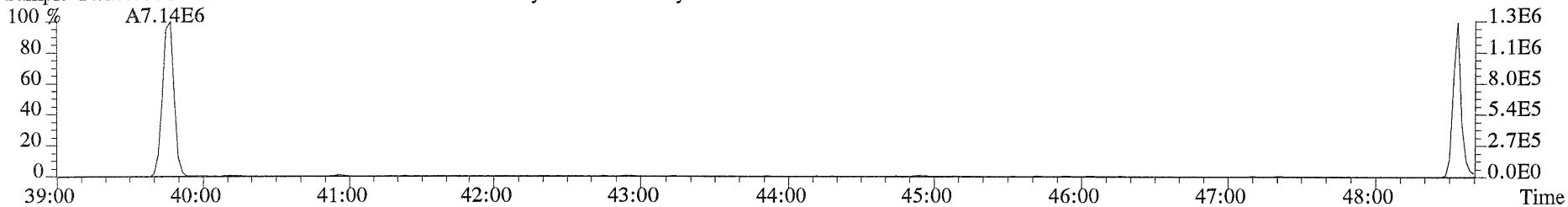
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



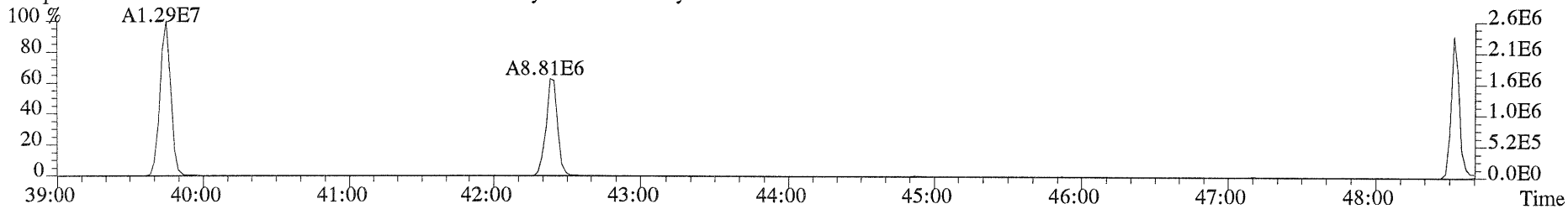
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



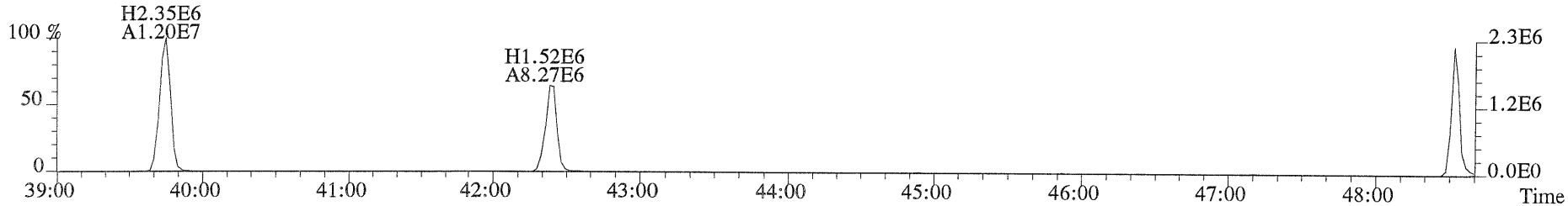
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



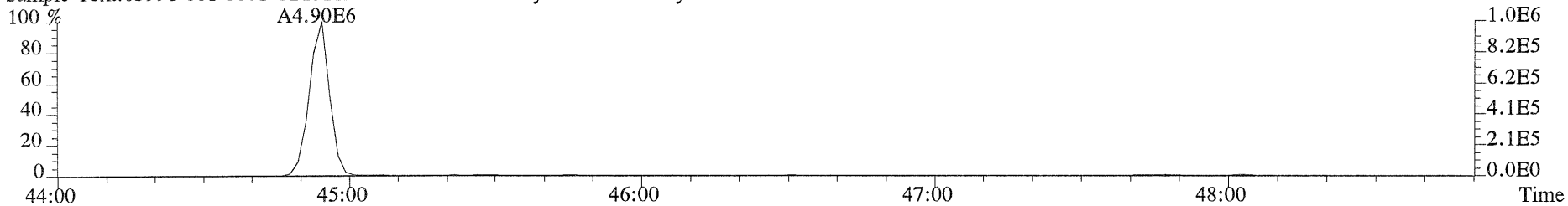
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



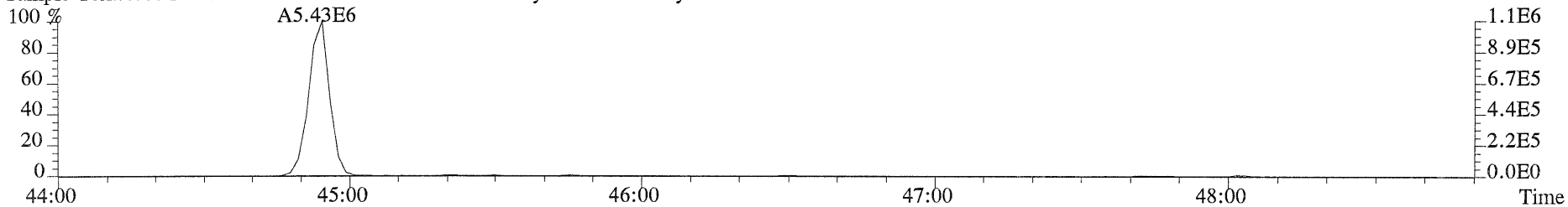
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



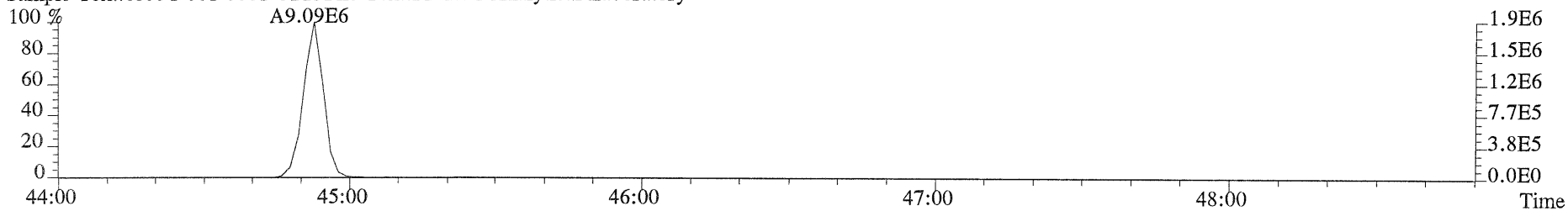
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



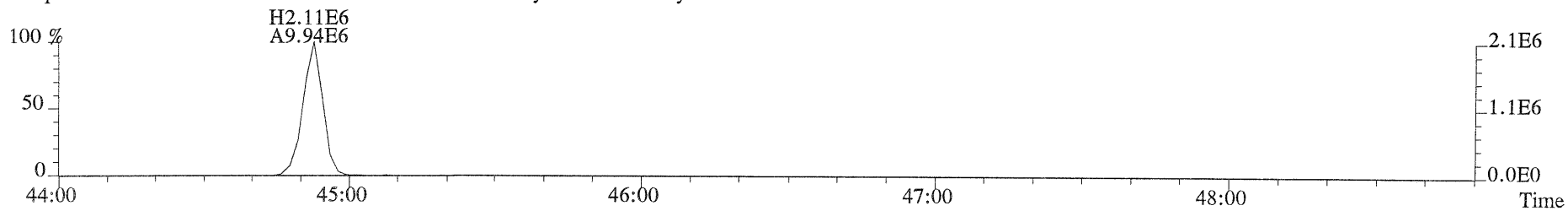
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



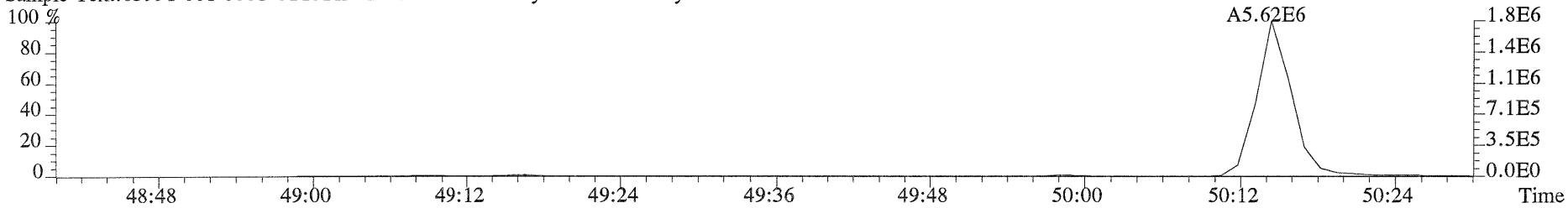
File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-413 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



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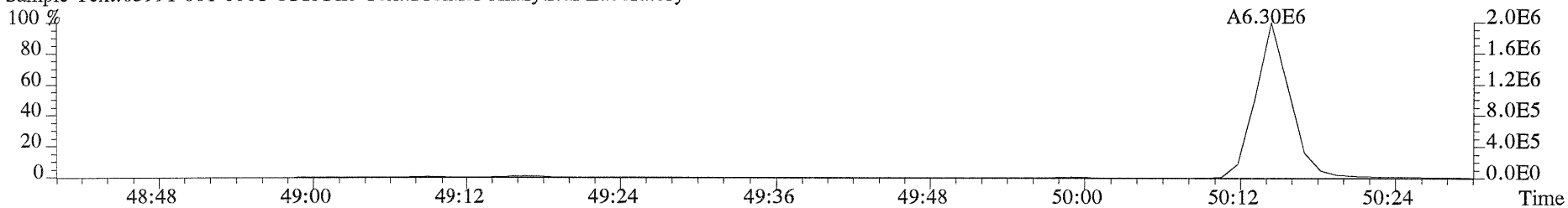
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



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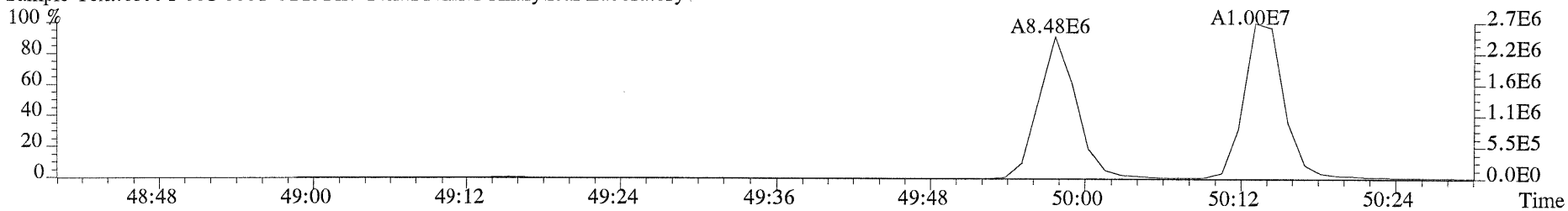
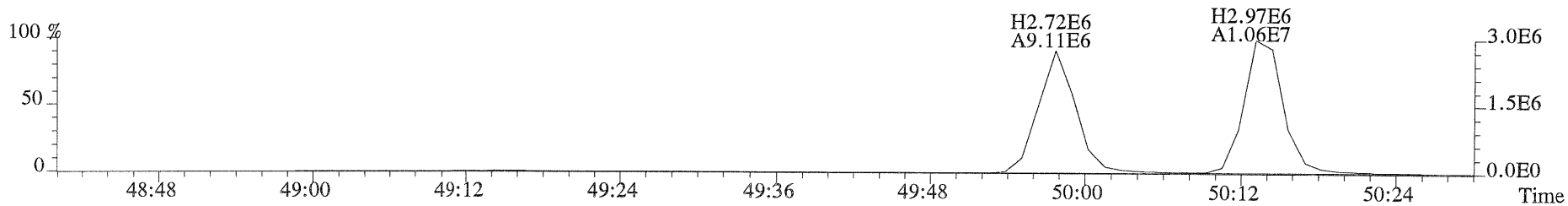
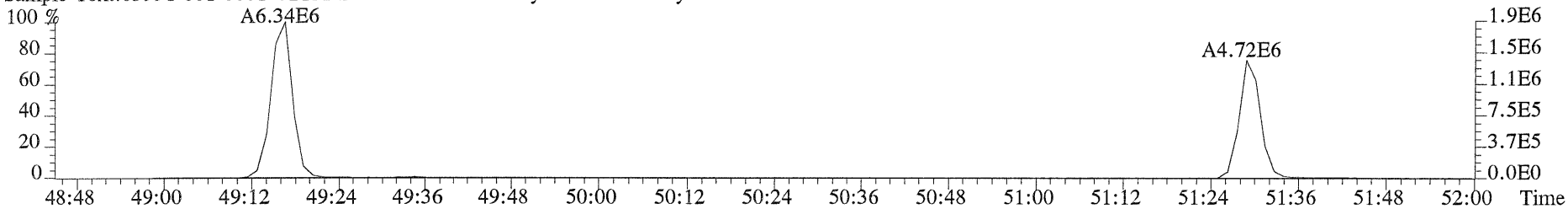
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



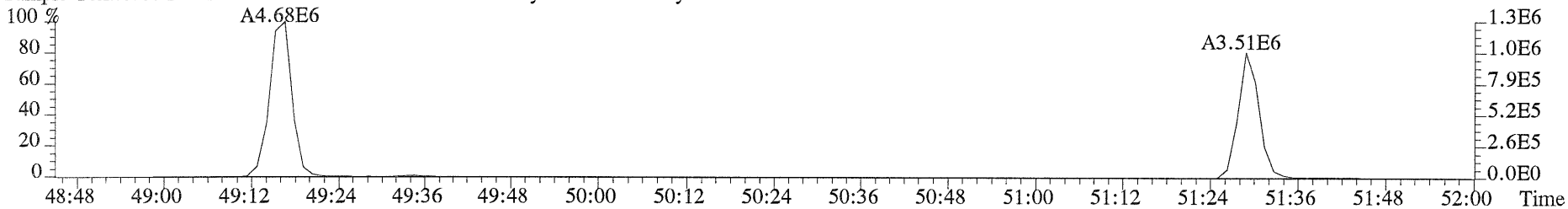
File:31JAN17Z #1-306 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



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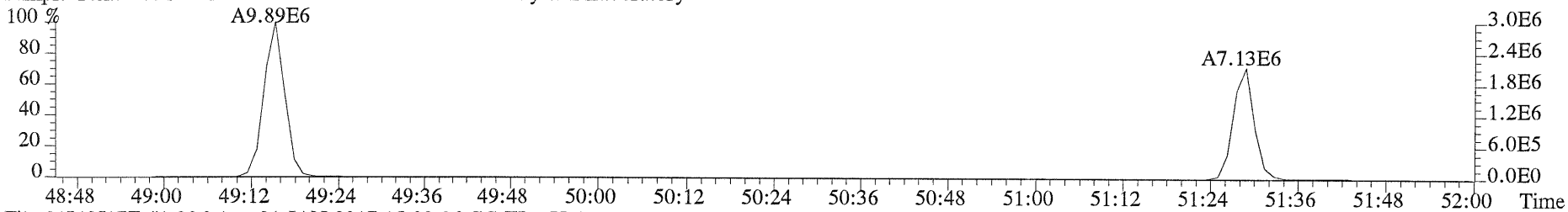
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



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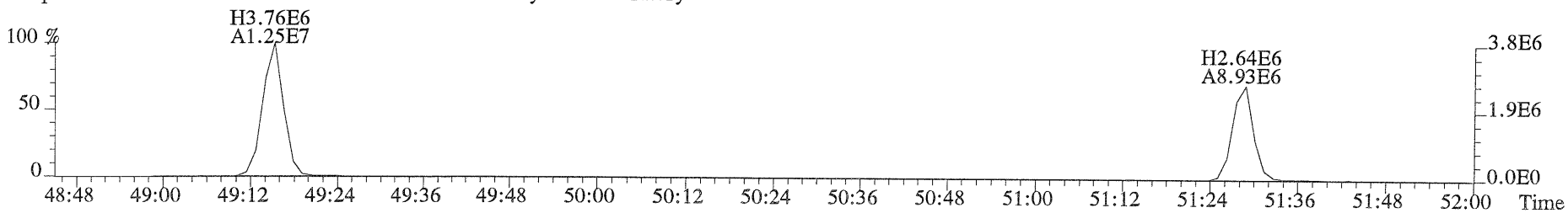
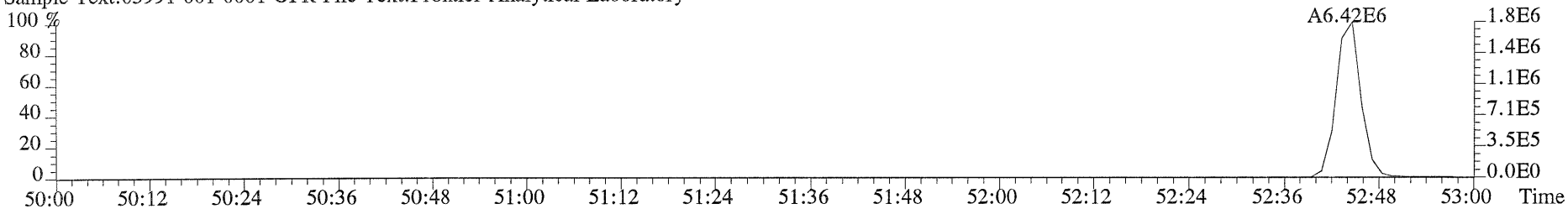
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



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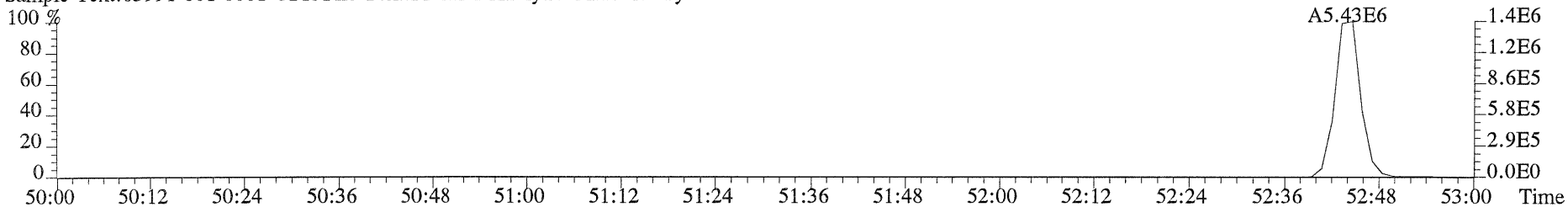
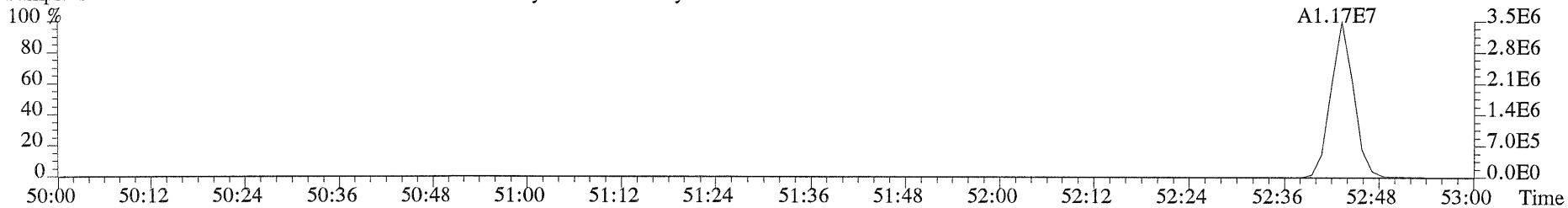
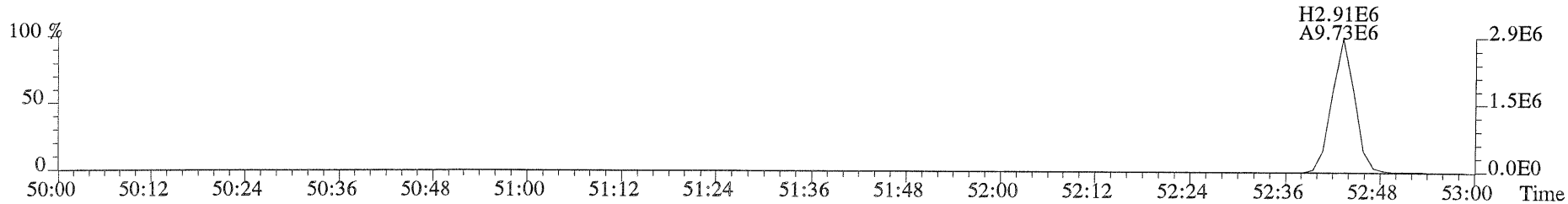
499.6797 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 15:08:36 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03991-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 10398-001-0001-SA Filename: 31JAN17Z Sam:5 Acquired: 31-JAN-17 17:05:39 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR+AC-CA-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	S/N-1	S/N-2	Rec
PCB-1	1.79e+05	3.08 y	14:33	0.98	59.2		910	770	4.57	48	17	
13C-PCB-1	3.10e+07	3.22 y	14:32	1.01	8790					5400	450	88
PCB-2	*	* n	NotFnd	0.89	*		910	770	5.65	*	*	
PCB-3	5.37e+04	2.76 y	17:00	1.03	17.4	J	910	770	5.50	10	6.3	
13C-PCB-3	3.00e+07	3.32 y	16:59	0.97	8940					4300	340	89
PCB-4	2.59e+06	1.44 y	18:13	1.05	1210		1100	1500	10.7	430	220	
PCB-10	7.29e+05	1.35 y	18:16	1.13	258		1100	1500	9.77	140	69	
13C-PCB-4	2.02e+07	1.60 y	18:12	0.63	9310					2900	1400	93
PCB-9	4.93e+05	1.48 y	19:56	1.19	166		1100	1500	9.27	77	41	
PCB-7	4.93e+05	1.48 y	19:56	1.27	156		1100	1500	8.70	77	41	
PCB-6	3.19e+06	1.42 y	20:33	1.23	1030		1100	1500	8.94	410	220	
PCB-8	5.82e+06	1.51 y	20:55	1.11	2090		1100	1500	9.92	980	470	
PCB-5	1.83e+06	1.59 y	20:57	1.29	569		1100	1500	8.56	400	190	
PCB-14	3.88e+05	1.37 y	21:59	1.15	135		1100	1500	9.56	45	29	
PCB-11	1.95e+05	1.51 y	23:07	1.08	71.9		1100	1500	10.2	21	16	
PCB-13	2.11e+05	1.65 y	23:28	1.08	78.0		1100	1500	10.2	41	32	
PCB-12	1.86e+05	1.55 y	23:30	1.13	65.7		1100	1500	9.74	33	29	
PCB-15	1.65e+06	1.34 y	23:48	1.07	514		1100	1500	10.1	140	90	
13C-PCB-15	2.99e+07	1.59 y	23:46	0.94	9130					3100	1500	91
PCB-19	2.27e+06	1.02 y	22:07	1.03	1190		670	400	5.44	460	780	
PCB-30	*	* n	NotFnd	1.46	*		670	400	3.82	*	*	
PCB-18	2.33e+07	1.04 y	23:41	1.02	12400		670	400	5.50	4500	7400	
PCB-17	1.14e+07	1.05 y	23:50	1.10	5560		670	400	5.06	2100	3400	
PCB-27	1.02e+06	0.97 y	24:21	1.41	390		670	400	3.97	370	620	
PCB-24	1.39e+06	1.09 y	24:22	1.44	520		670	400	3.87	390	610	
PCB-16	6.10e+06	1.03 y	24:50	1.18	2780		670	400	4.71	1500	2400	
PCB-32	9.38e+06	1.04 y	24:53	1.29	3930		670	400	4.34	1900	3100	
13C-PCB-19	1.86e+07	1.08 y	22:05	0.57	9330					92	110	93
13C-PCB-9	3.47e+07	1.61 y	19:54	-	47.0					4600	2300	
PCB-34	3.54e+05	1.08 y	25:38	0.98	143		1000	1100	12.1	43	35	
PCB-23	*	* n	NotFnd	1.24	*		1000	1100	9.52	*	*	
PCB-29	1.86e+05	1.12 y	25:57	1.12	65.5		1000	1100	10.5	22	19	
PCB-26	9.79e+06	1.06 y	26:10	1.11	3490		1000	1100	10.7	1200	950	
PCB-25	6.03e+06	1.05 y	26:19	1.36	1750		1000	1100	8.67	670	560	
PCB-31	2.34e+07	1.04 y	26:39	1.13	8190		1000	1100	10.5	3200	2700	
PCB-28	2.83e+07	1.07 y	26:45	1.34	8320		1000	1100	8.80	2900	2500	
PCB-20/21/33	1.39e+07	1.05 y	27:20	1.18	4650		1000	1100	9.98	1400	1200	
PCB-22	7.38e+06	1.05 y	27:45	1.17	2500		1000	1100	10.1	780	680	
PCB-36	2.70e+06	1.07 y	28:21	1.05	1020		1000	1100	11.3	270	230	
PCB-39	4.50e+04	0.91 y	28:49	1.07	16.6	J	1000	1100	11.0	4.9	5.5	
PCB-38	1.75e+05	1.08 y	29:29	1.09	63.5		1000	1100	10.8	20	19	
PCB-35	1.16e+05	1.14 y	30:02	0.97	47.4		1000	1100	12.2	12	8.5	
PCB-37	2.25e+06	1.09 y	30:28	1.14	780		1000	1100	10.4	200	170	
13C-PCB-37	2.53e+07	1.06 y	30:25	1.14	10000					71	66	100

FAL ID: 10398-001-0001-SA Filename: 31JAN17Z Sam:5 Acquired: 31-JAN-17 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR+AC-CA-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

PCB-54	1.18e+05	0.78	y	25:39	0.99	52.4	780	1000	8.28	15	15	
PCB-50	1.25e+05	0.82	y	26:46	0.74	75.1	780	1000	11.2	17	16	
PCB-53	3.99e+06	0.78	y	27:22	0.74	2390	780	1000	11.1	530	540	
PCB-51	1.22e+06	0.79	y	27:42	0.75	717	780	1000	10.9	170	170	
PCB-45	3.54e+06	0.77	y	28:06	0.65	2390	780	1000	12.6	440	470	
PCB-46	1.38e+06	0.77	y	28:34	0.62	985	780	1000	13.3	180	180	
PCB-52/69	2.66e+07	0.78	y	29:00	0.95	12300	780	1000	8.61	3600	3700	
PCB-73	*	*	n	NotFnd	0.85	*	780	1000	9.68	*	*	
PCB-43/49	1.81e+07	0.77	y	29:18	0.72	11100	780	1000	11.4	2400	2400	
PCB-47	5.56e+06	0.77	y	29:29	0.91	2680	780	1000	8.98	730	740	
PCB-48/75	4.65e+06	0.79	y	29:36	0.90	2260	780	1000	9.08	580	590	
PCB-65	*	*	n	NotFnd	0.95	*	780	1000	8.67	*	*	
PCB-62	*	*	n	NotFnd	0.84	*	780	1000	9.73	*	*	
PCB-44	1.50e+07	0.78	y	30:15	0.64	10300	780	1000	12.8	1900	1900	
PCB-42/59	7.15e+06	0.78	y	30:28	0.87	3620	780	1000	9.45	850	870	
PCB-41/64/71/72	1.61e+07	0.77	y	31:02	0.94	7580	780	1000	8.76	1800	1700	
PCB-68	2.39e+05	0.75	y	31:17	0.99	106	780	1000	8.26	25	27	
PCB-40	2.32e+06	0.79	y	31:28	0.56	1840	780	1000	14.8	290	280	
PCB-57	1.91e+05	0.80	y	31:48	0.94	89.5	780	1000	8.74	24	22	
PCB-67	4.82e+05	0.79	y	32:06	0.86	246	780	1000	9.53	64	62	
PCB-58	1.52e+05	0.88	y	32:13	0.99	67.6	780	1000	8.32	19	19	
PCB-63	7.22e+05	0.79	y	32:23	0.95	335	780	1000	8.64	87	83	
PCB-74	6.13e+06	0.76	y	32:39	0.97	2770	780	1000	8.43	700	740	
PCB-61/70	1.27e+07	0.77	y	32:50	1.03	5460	780	1000	8.01	1500	1500	
PCB-66/76	1.19e+07	0.80	y	33:03	0.99	5290	780	1000	8.32	1200	1200	
PCB-80	*	*	n	NotFnd	1.07	*	780	1000	7.67	*	*	
PCB-55	3.57e+05	0.77	y	33:33	0.97	163	780	1000	8.51	25	25	
13C-PCB-54	2.27e+07	0.79	y	25:38	1.12	9100				2100	3200	91
PCB-104	4.01e+06	1.60	y	30:06	1.06	2160	320	550	4.97	1800	660	
PCB-96	2.03e+05	1.59	y	31:17	0.99	117	320	550	5.33	83	29	
PCB-103	2.58e+05	1.66	y	31:48	0.82	179	320	550	6.40	120	38	
PCB-100	8.50e+04	1.35	y	32:09	0.82	59.3	320	550	6.44	33	17	
PCB-94	7.24e+04	1.63	y	32:35	0.68	60.3	320	550	7.70	28	10	
PCB-98/102	1.07e+07	1.62	y	33:06	0.87	7030	320	550	6.07	4300	1600	
PCB-95	1.07e+07	1.62	y	33:06	0.74	8270	320	550	7.14	4300	1600	
PCB-93	*	*	n	NotFnd	0.70	*	320	550	7.56	*	*	
PCB-88/91	1.76e+06	1.52	y	33:31	0.79	1270	320	550	6.65	980	390	
PCB-121	5.93e+06	1.65	y	33:33	0.93	3640	320	550	5.68	2600	920	
13C-PCB-104	1.75e+07	1.60	y	30:05	0.82	9620				4900	4400	96
13C-PCB-28	3.05e+07	1.08	y	26:44	1.38	9990				110	96	100
13C-PCB-52	2.22e+07	0.77	y	28:59	-	44.6				1900	3100	
PCB-56/60	5.67e+06	0.77	y	34:01	1.06	2410	540	650	6.90	870	940	
PCB-79	1.67e+05	0.73	y	35:03	1.08	69.4	540	650	6.75	25	27	
PCB-78	5.09e+06	0.81	y	35:43	1.03	2230	540	650	7.14	750	790	
PCB-81	1.29e+05	0.83	y	36:12	1.07	53.7	540	650	6.65	24	25	
13C-PCB-81	2.25e+07	0.81	y	36:12	1.02	10400				3200	3000	100
PCB-77	4.15e+05	0.87	y	36:48	0.99	192	540	650	7.66	50	51	
13C-PCB-77	2.19e+07	0.81	y	36:47	1.01	10200				2900	2900	100

PCB-155	8.37e+06	1.29	y	34:16	1.01	4140	450	420	4.75	2400	2000	
PCB-150	*	*	n	NotFnd	0.91	*	450	420	5.25	*	*	
PCB-152	*	*	n	NotFnd	0.90	*	450	420	5.32	*	*	
PCB-145	*	*	n	NotFnd	0.89	*	450	420	5.39	*	*	
PCB-136	1.45e+06	1.26	y	36:38	0.93	781	450	420	5.16	410	340	
PCB-148	*	*	n	NotFnd	0.64	*	450	420	7.45	*	*	
PCB-154	1.61e+05	1.33	y	37:12	0.78	103	450	420	6.13	45	34	
13C-PCB-155	2.01e+07	1.27	y	34:15	1.02	9280				5500	4200	93
13C-PCB-111	2.33e+07	1.59	y	36:20	1.11	9890				1700	1300	99
13C-PCB-101	2.13e+07	1.63	y	34:41	-	47.0				1600	1200	
PCB-84/92	6.11e+06	1.54	y	34:21	0.79	3550	790	460	8.81	1000	1200	
PCB-89	1.89e+05	1.42	y	34:31	0.73	120	790	460	9.62	34	39	
PCB-90/101	1.23e+07	1.54	y	34:43	0.85	6670	790	460	8.24	2200	2400	
PCB-113	*	*	n	NotFnd	1.01	*	790	460	6.94	*	*	
PCB-99	5.65e+06	1.55	y	35:02	0.88	2950	790	460	7.91	900	1100	
PCB-119	5.12e+05	1.36	y	35:28	1.08	218	790	460	6.45	91	110	
PCB-83/112	6.81e+05	1.52	y	35:37	0.84	373	790	460	8.31	120	120	
PCB-109	*	*	n	NotFnd	1.01	*	790	460	6.89	*	*	
PCB-97	3.05e+06	1.51	y	35:57	0.92	1520	790	460	7.57	500	550	
PCB-86	*	*	n	NotFnd	0.82	*	790	460	8.55	*	*	
PCB-87/117/125	3.65e+06	1.57	y	36:14	0.95	1770	790	460	7.35	600	640	
PCB-111/115	1.63e+05	1.53	y	36:23	1.16	64.6	790	460	6.02	35	40	
PCB-85/116	1.40e+06	1.50	y	36:28	0.89	725	790	460	7.86	210	250	
PCB-120	*	*	n	NotFnd	1.12	*	790	460	6.25	*	*	
PCB-110	1.32e+07	1.55	y	36:50	1.07	5680	790	460	6.54	2200	2500	
PCB-82	8.02e+05	1.54	y	37:26	0.63	590	790	460	11.2	130	150	
PCB-124	2.54e+05	1.50	y	38:06	1.04	112	800	1100	10.5	32	15	
PCB-107/108	6.24e+05	1.47	y	38:16	0.99	290	800	1100	11.0	89	43	
PCB-123	9.33e+04	1.47	y	38:25	1.22	38.3	800	1100	9.19	16	7.9	
13C-PCB-123	2.00e+07	1.57	y	38:23	1.07	9510				620	240	95
PCB-118/106	6.49e+06	1.50	y	38:34	0.96	2880	800	1100	10.9	980	440	
13C-PCB-118	2.35e+07	1.57	y	38:33	1.18	10100				670	250	100
PCB-114	1.57e+05	1.55	y	39:12	1.07	66.8	800	1100	10.2	20	11	
13C-PCB-114	2.20e+07	1.56	y	39:11	1.11	10100				630	240	100
PCB-122	8.30e+04	1.61	y	39:19	0.96	39.9	800	1100	11.4	10	4.3	
PCB-105	1.98e+06	1.50	y	40:00	1.02	920	800	1100	10.9	280	130	
13C-PCB-105	2.12e+07	1.58	y	40:00	1.09	9910				640	230	99
PCB-127	*	*	n	NotFnd	0.89	*	800	1100	12.3	*	*	
PCB-126	*	*	n	NotFnd	1.05	*	800	1100	14.0	*	*	
13C-PCB-126	1.86e+07	1.61	y	42:08	0.90	10500				480	180	100
PCB-151	1.63e+06	1.31	y	37:50	0.81	997	860	770	11.9	240	200	
PCB-135	9.89e+05	1.24	y	38:02	0.80	612	860	770	12.0	140	120	
PCB-144	2.91e+05	1.30	y	38:08	0.85	170	860	770	11.3	54	45	
PCB-147	1.31e+05	1.28	y	38:16	0.95	69.2	860	770	10.2	20	16	
PCB-139/149	5.66e+06	1.25	y	38:30	0.91	3080	860	770	10.6	800	720	
PCB-140	6.86e+04	1.11	y	38:41	0.91	37.6	860	770	10.6	9.5	8.2	
PCB-134/143	3.56e+05	1.22	y	39:07	0.83	213	860	770	11.6	49	43	
PCB-131/133	1.65e+05	1.21	y	39:22	0.85	96.7	860	770	11.3	25	23	
PCB-142	5.57e+06	1.26	y	39:32	0.73	3800	860	770	13.2	810	730	
PCB-146/165	9.64e+05	1.24	y	39:45	1.00	479	860	770	9.63	130	120	
PCB-132/161	1.93e+06	1.27	y	40:00	0.97	991	860	770	9.96	300	270	
PCB-153	5.31e+06	1.25	y	40:08	0.90	2940	860	770	10.8	720	630	
PCB-168	*	*	n	NotFnd	1.10	*	860	770	8.81	*	*	
PCB-141	8.00e+05	1.26	y	40:49	0.84	473	860	770	11.5	110	95	
PCB-137	1.69e+05	1.22	y	41:12	0.91	93.0	860	770	10.7	25	28	

FAL ID: 10398-001-0001-SA Filename: 31JAN17Z Sam:5 Acquired: 31-JAN-17 17:05:39 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR+AC-CA-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

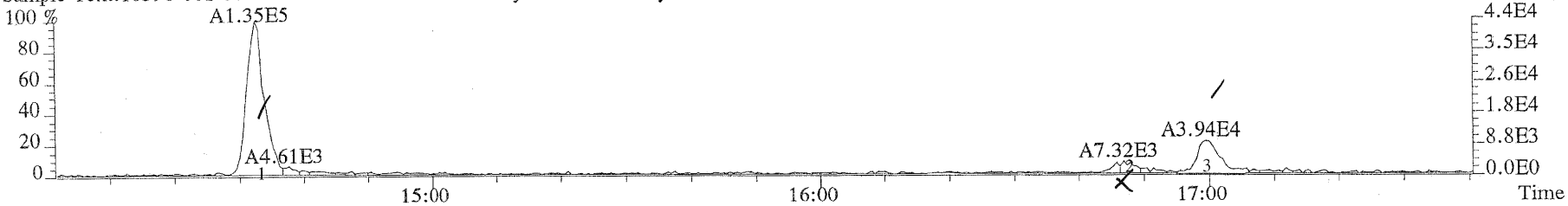
PCB-130	3.07e+05	1.30	y	41:17	0.64	237		860	770	15.0	41	36	
PCB-138/163/164	5.12e+06	1.23	y	41:39	1.10	2330		860	770	8.81	590	540	
PCB-158/160	6.03e+05	1.27	y	41:52	1.09	276		860	770	8.86	79	72	
PCB-129	1.77e+05	1.19	y	42:07	0.69	127		860	770	13.9	24	18	
PCB-166	*	*	n	NotFnd	1.07	*		860	770	9.04	*	*	
PCB-159	3.48e+04	1.39	y	42:53	1.06	16.3	J	860	770	9.07	5.0	4.3	
PCB-128/162	6.35e+05	1.27	y	43:08	0.92	344		860	770	10.5	80	71	
PCB-167	1.33e+05	1.35	y	43:31	0.93	67.8		860	770	9.97	18	17	
13C-PCB-167	2.11e+07	1.26	y	43:29	1.09	9840					1200	1100	98
PCB-156	3.21e+05	1.30	y	44:45	0.97	169		860	770	9.85	45	35	
13C-PCB-156	1.95e+07	1.28	y	44:43	1.01	9850					1200	1100	98
PCB-157	7.70e+04	1.11	y	45:00	0.97	37.5		860	770	10.2	9.1	6.9	
13C-PCB-157	2.12e+07	1.28	y	44:58	1.04	10300					1200	1100	100
PCB-169	*	*	n	NotFnd	0.92	*		860	770	10.8	*	*	
13C-PCB-169	1.85e+07	1.24	y	46:52	0.87	10800					1200	1100	110
PCB-188	*	*	n	NotFnd	1.07	*		640	500	6.03	*	*	
13C-PCB-188	2.04e+07	1.09	y	39:45	1.14	9070					3700	4900	91
PCB-184	1.24e+07	1.05	y	40:12	1.21	5480		640	500	5.14	2300	2800	
PCB-179	6.31e+05	1.07	y	40:56	1.17	289		640	500	5.32	120	130	
PCB-176	1.88e+05	0.97	y	41:22	1.12	89.9		640	500	5.55	34	44	
PCB-186	*	*	n	NotFnd	1.12	*		640	500	5.51	*	*	
PCB-178	1.75e+05	1.00	y	42:25	0.82	114		640	500	7.59	28	42	
PCB-175	3.53e+04	0.98	y	42:45	0.87	21.7		640	500	7.15	6.8	9.2	
PCB-182/187	1.04e+06	1.05	y	42:53	0.92	604		640	500	6.76	180	220	
PCB-183	4.50e+05	1.07	y	43:13	0.91	263		640	500	6.79	84	100	
PCB-185	8.31e+04	0.95	y	43:50	0.84	52.7		640	500	7.37	15	21	
PCB-174	7.13e+05	1.04	y	44:10	0.93	409		640	500	6.67	130	150	
PCB-181	*	*	n	NotFnd	0.72	*		640	500	8.59	*	*	
PCB-177	3.99e+05	1.05	y	44:27	0.76	279		640	500	8.12	71	85	
PCB-171	1.69e+05	1.03	y	44:43	0.80	112		640	500	7.70	34	39	
PCB-173	*	*	n	NotFnd	0.73	*		640	500	8.47	*	*	
PCB-172	2.10e+05	1.01	y	45:29	0.75	148		640	500	8.22	34	44	
PCB-192	7.32e+06	1.07	y	45:42	0.97	4020		640	500	6.38	1400	1600	
PCB-180	1.24e+06	0.99	y	45:52	0.96	690		640	500	6.44	230	280	
PCB-193	1.05e+05	1.07	y	46:02	1.06	52.8		640	500	5.85	16	21	
PCB-191	4.71e+04	0.94	y	46:15	1.02	24.7		640	500	6.10	4.7	7.6	
PCB-170	4.20e+05	1.04	y	47:10	0.70	322		640	500	8.92	83	110	
PCB-190	1.33e+05	1.13	y	47:20	0.95	75.0		640	500	6.53	27	34	
PCB-189	2.23e+04	1.00	y	48:32	1.04	12.5	J	640	500	5.67	4.3	5.5	
13C-PCB-189	1.71e+07	1.09	y	48:32	0.85	10300					4000	5400	100
PCB-202	5.12e+04	0.97	y	44:53	0.90	35.8		260	370	5.33	18	18	
PCB-201	*	*	n	NotFnd	0.93	*		260	370	5.14	*	*	
PCB-204	1.16e+07	0.90	y	45:29	0.85	8580		260	370	5.66	5200	3900	
PCB-197	1.07e+05	0.93	y	45:44	0.92	73.2		260	370	5.23	45	36	
PCB-200	3.83e+04	0.90	y	46:30	0.88	27.3		260	370	5.44	15	16	
PCB-198	*	*	n	NotFnd	0.56	*		260	370	8.60	*	*	
PCB-199	1.37e+05	0.89	y	47:48	0.68	126		260	370	7.03	67	48	
PCB-196/203	1.51e+05	1.02	y	48:02	0.67	141		260	370	7.11	83	55	
13C-PCB-202	1.59e+07	0.94	y	44:53	0.92	8820					4800	5100	88
13C-PCB-178	1.38e+07	1.06	y	42:23	0.80	8800					2600	3600	88
13C-PCB-138	1.97e+07	1.26	y	41:37	-	48.0					1300	1100	

FAL ID: 10398-001-0001-SA Filename: 31JAN17Z Sam:5 Acquired: 31-JAN-17 17:05:39 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR+AC-CA-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

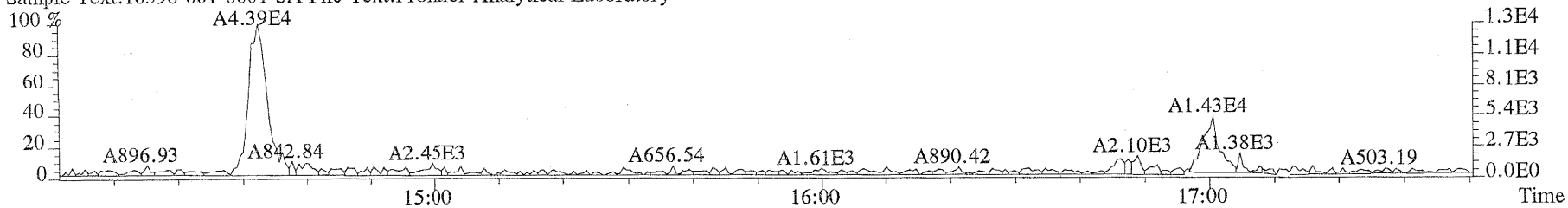
PCB-195	5.84e+04	0.92	y	49:09	0.78	39.9		650	870	9.22	12	11	
PCB-194	1.33e+05	0.84	y	49:59	0.83	85.6		650	870	8.67	26	23	
PCB-205	*	*	n	NotFnd	1.07	*		650	870	6.73	*	*	
13C-PCB-205	1.87e+07	0.91	y	50:14	1.19	9900					4500	4100	99
PCB-208	1.80e+04	1.25	y	49:15	0.91	10.4	J	250	280	2.53	10	8.8	
13C-PCB-208	1.91e+07	0.79	y	49:15	1.31	9230					5800	6400	92
PCB-207	6.96e+04	1.40	y	49:35	1.04	40.8		250	280	2.55	59	31	
PCB-206	3.45e+04	1.48	y	51:29	0.93	27.1		250	280	3.39	22	15	
13C-PCB-206	1.37e+07	0.79	y	51:29	0.94	9250					4200	4700	92
PCB-209	7.78e+04	1.12	y	52:45	0.99	42.7		270	240	2.63	51	44	
13C-PCB-209	1.84e+07	1.21	y	52:43	1.29	9020					8400	6200	90
13C-PCB-194	1.58e+07	0.93	y	49:58	-	50.1					4200	3800	

Analyst: _____ Date: 2/3/17

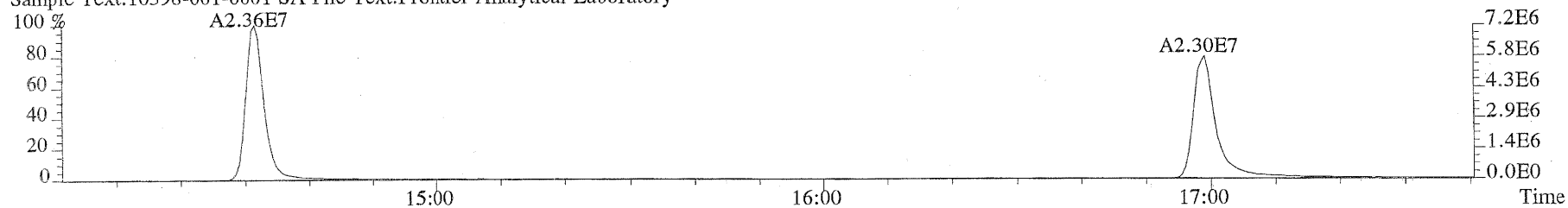
File:31JAN17Z #1-784 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



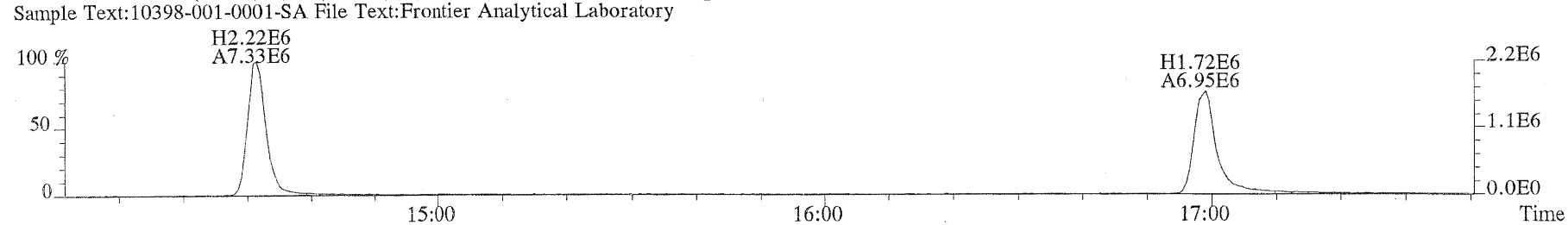
File:31JAN17Z #1-784 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



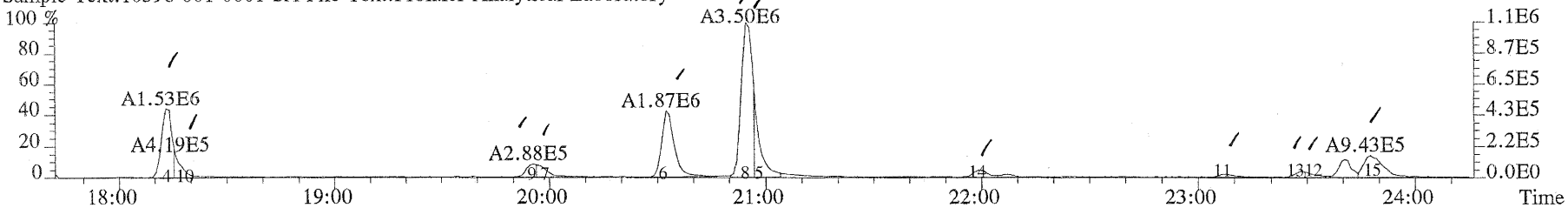
File:31JAN17Z #1-784 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



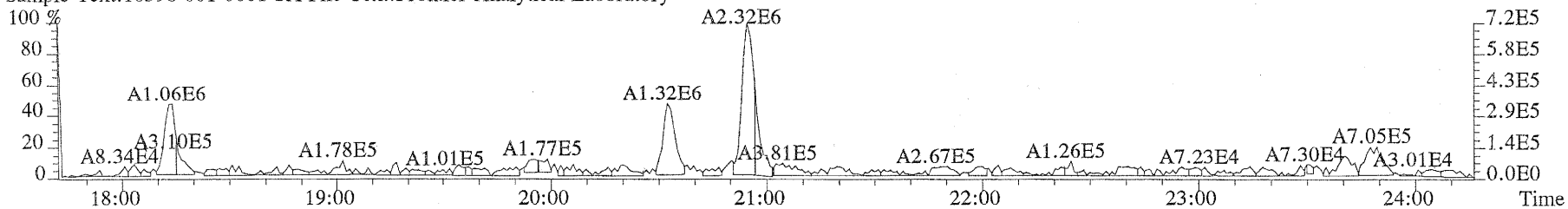
File:31JAN17Z #1-784 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



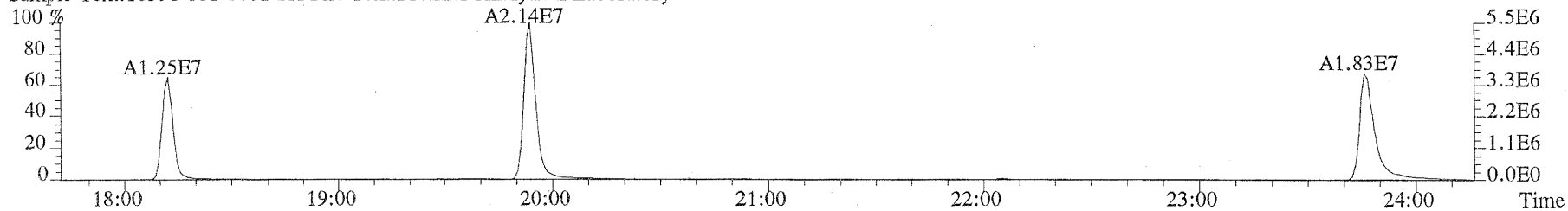
File:31JAN17Z #1-509 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



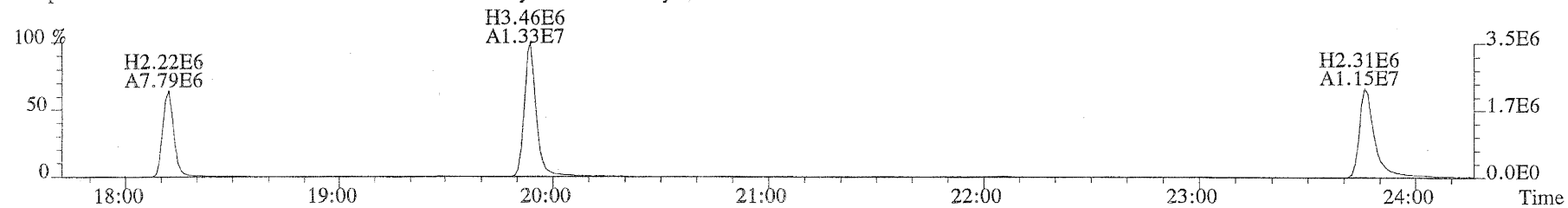
File:31JAN17Z #1-509 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



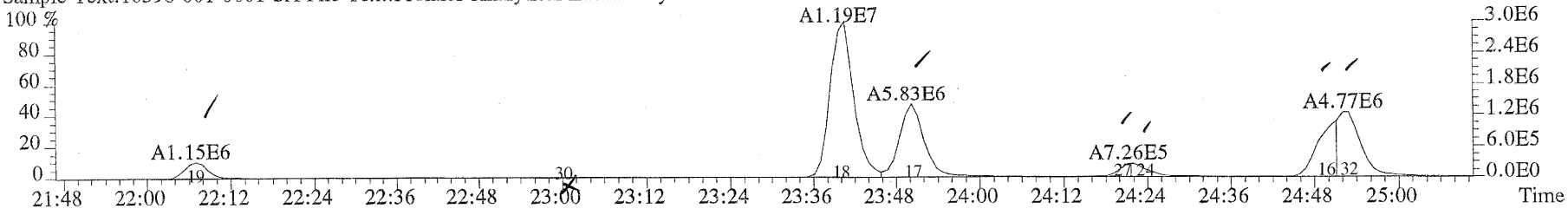
File:31JAN17Z #1-509 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



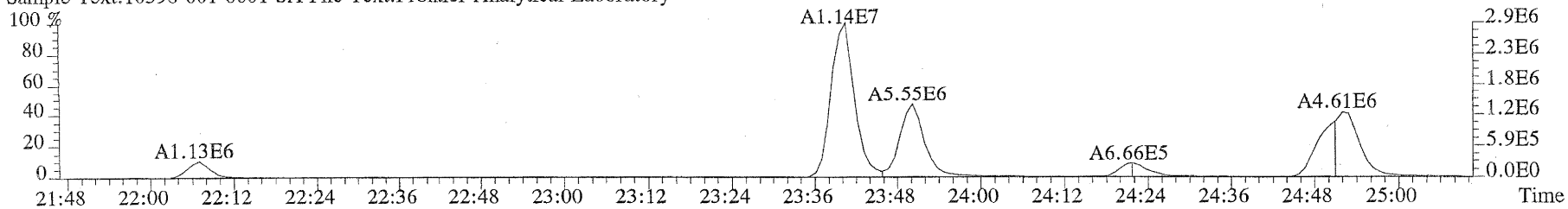
File:31JAN17Z #1-509 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



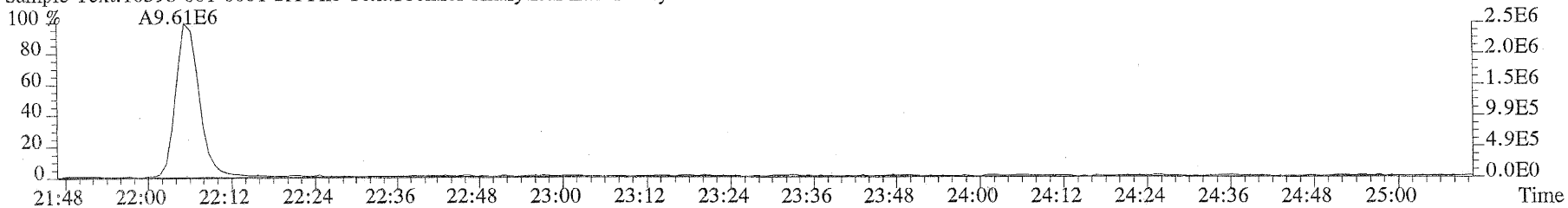
File:31JAN17Z #1-509 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



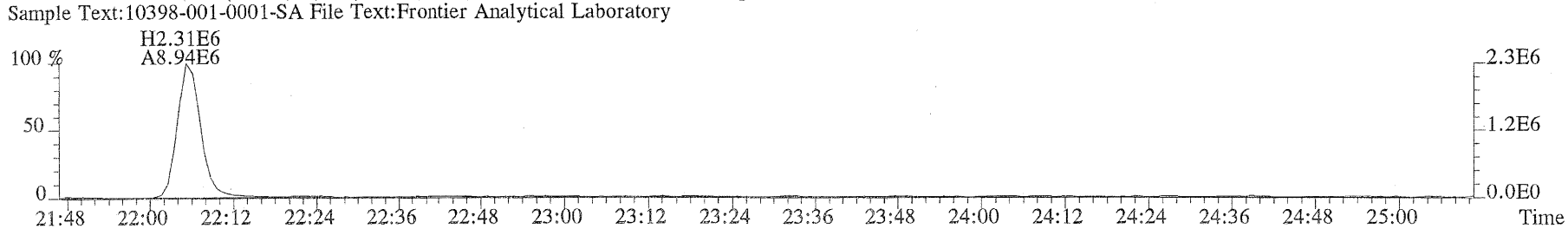
File:31JAN17Z #1-509 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



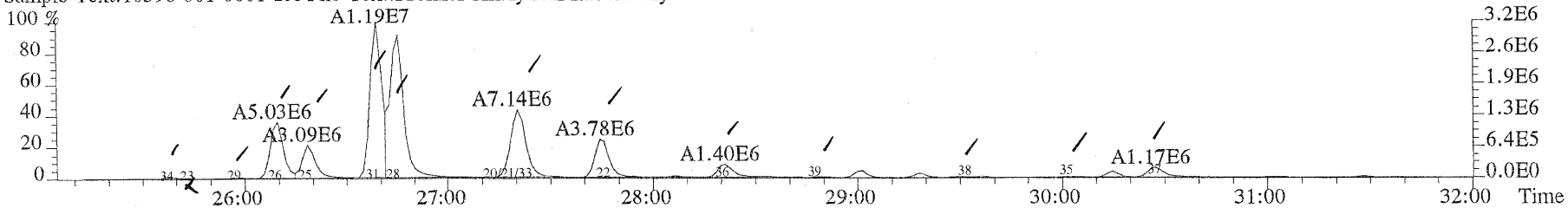
File:31JAN17Z #1-509 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



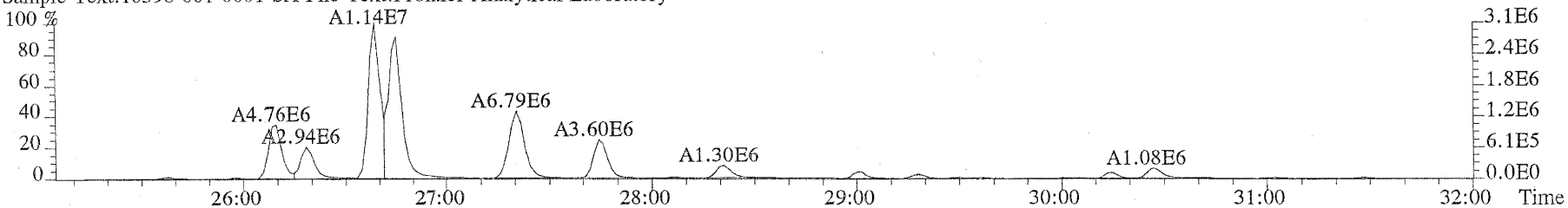
File:31JAN17Z #1-509 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



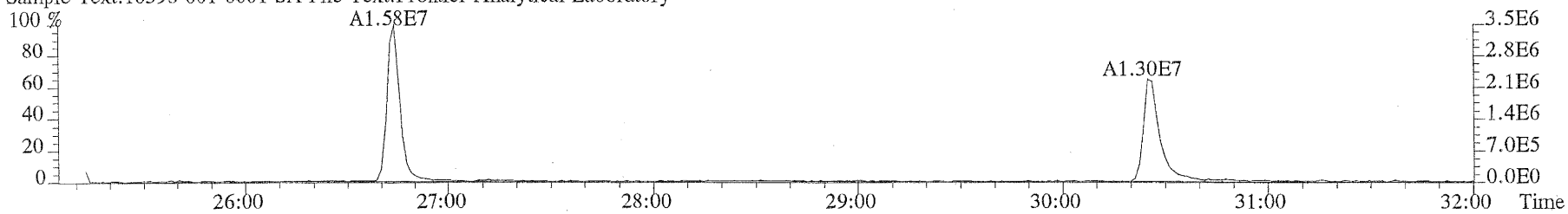
File:31JAN17Z #1-407 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



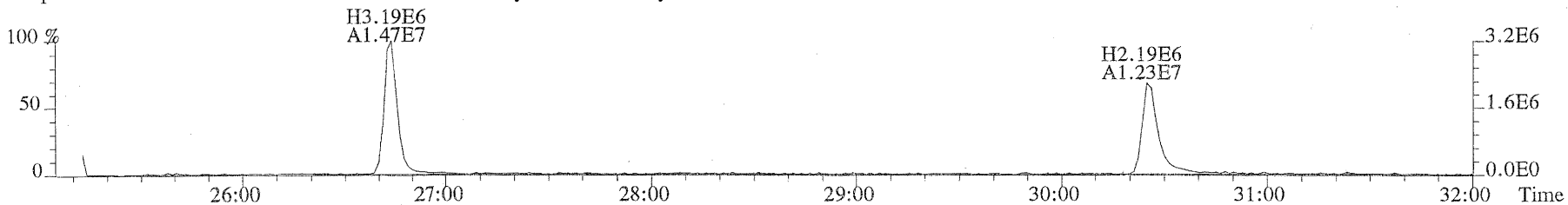
File:31JAN17Z #1-407 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



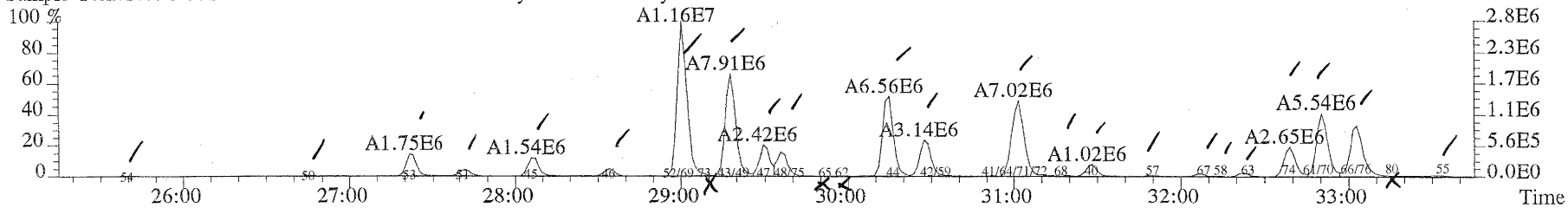
File:31JAN17Z #1-407 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



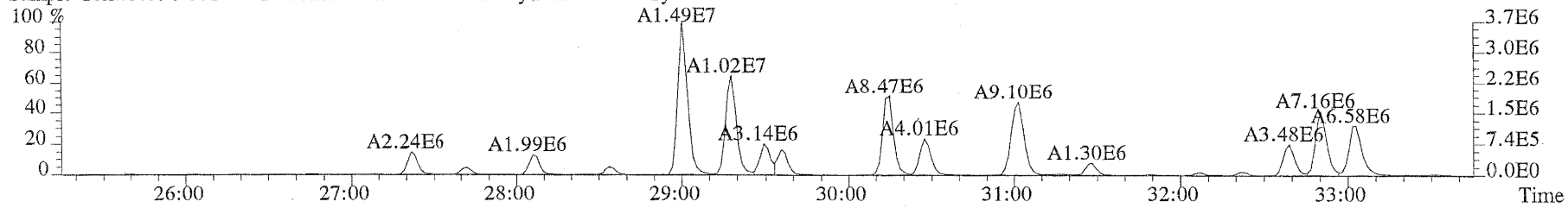
File:31JAN17Z #1-407 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



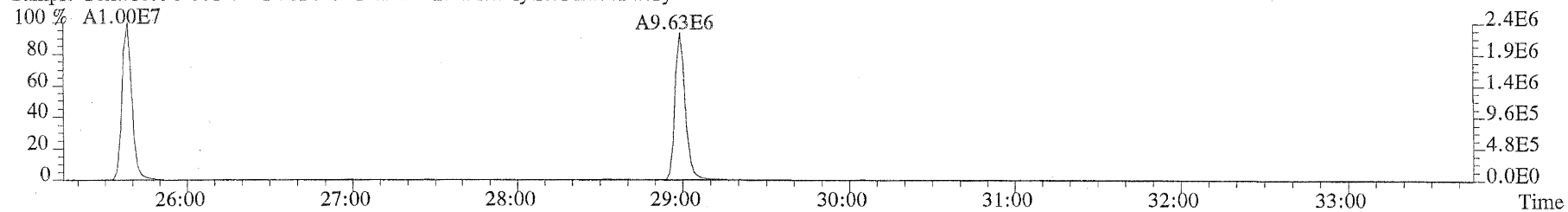
File:31JAN17Z #1-407 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



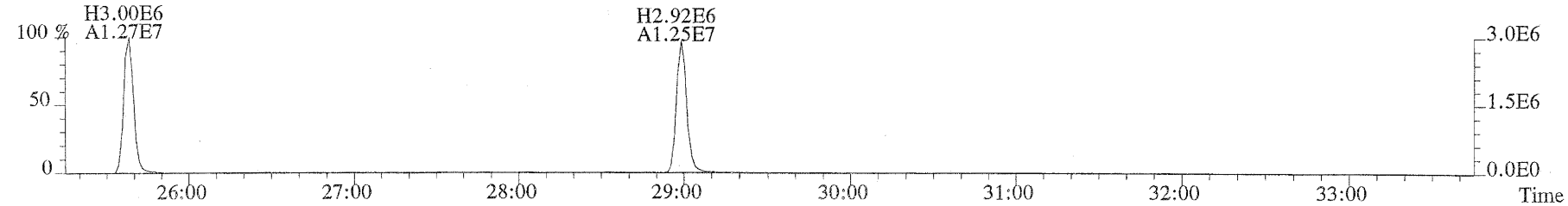
File:31JAN17Z #1-407 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



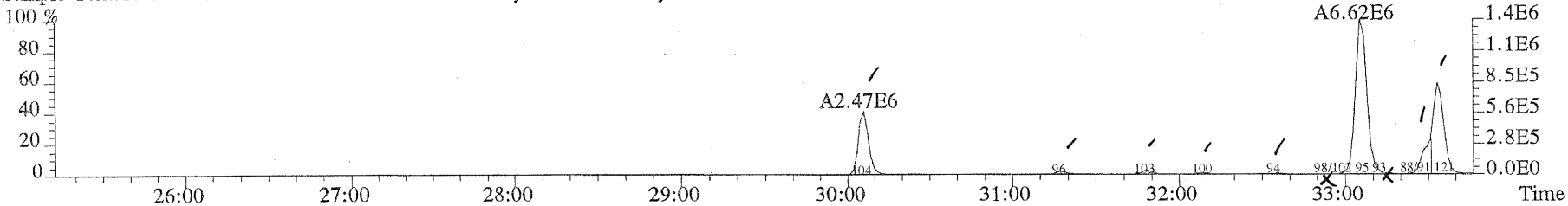
File:31JAN17Z #1-407 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



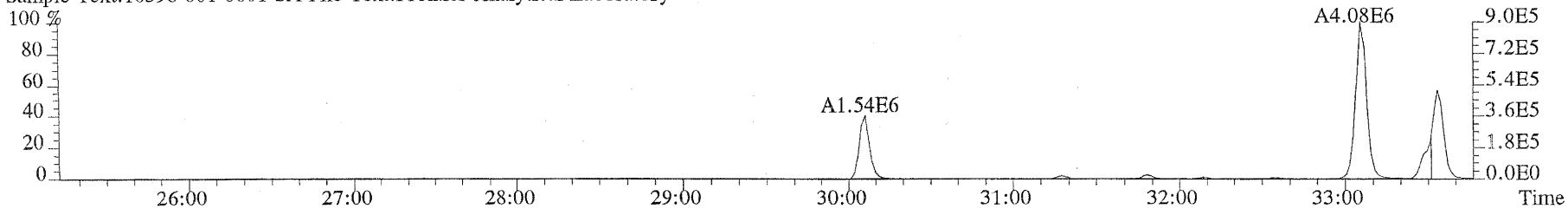
File:31JAN17Z #1-407 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



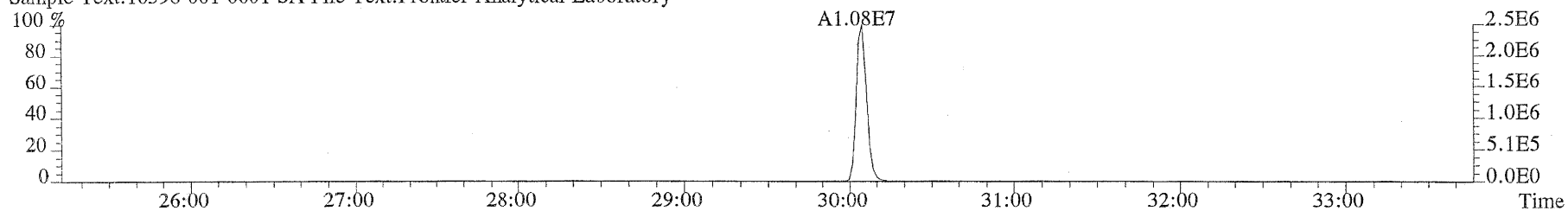
File:31JAN17Z #1-407 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



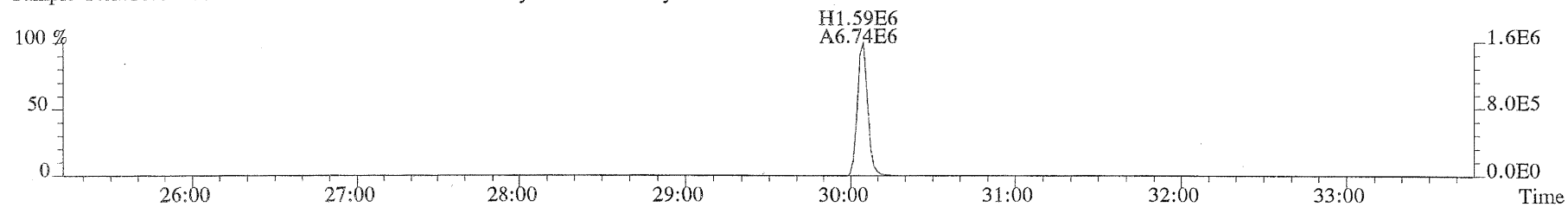
File:31JAN17Z #1-407 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



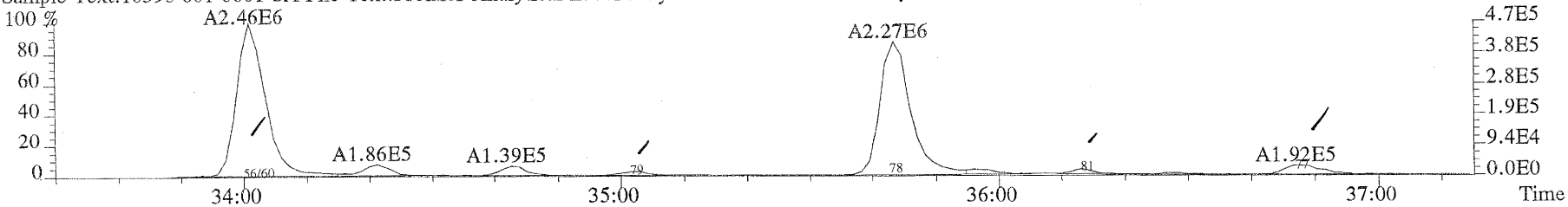
File:31JAN17Z #1-407 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-407 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-181 Acq:31-JAN-2017 17:05:39 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:10398-001-0001-SA File Text:Frontier Analytical Laboratory



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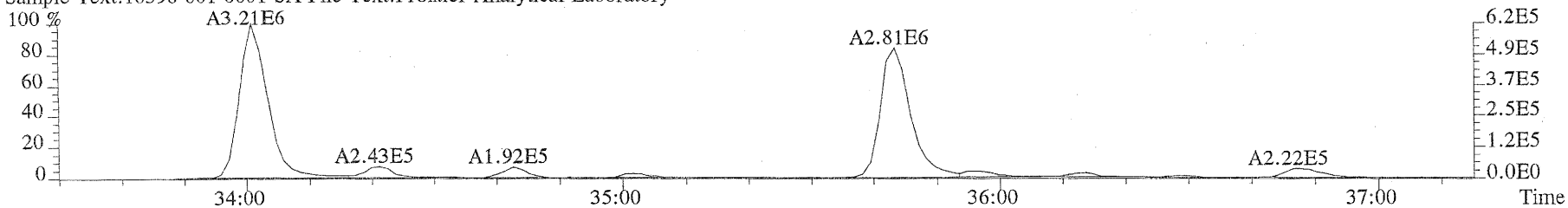
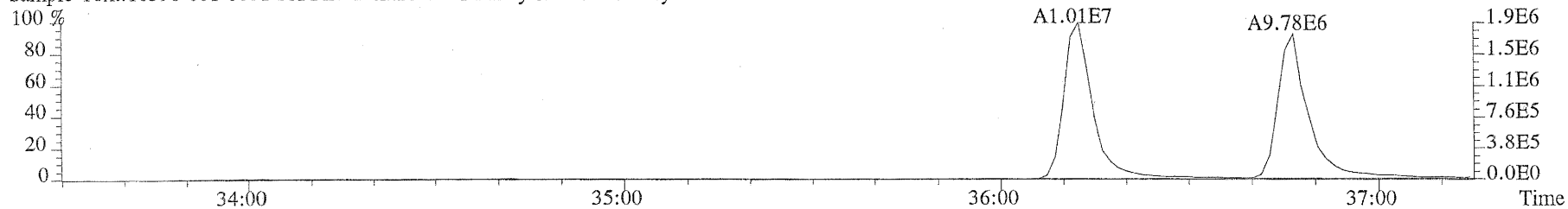
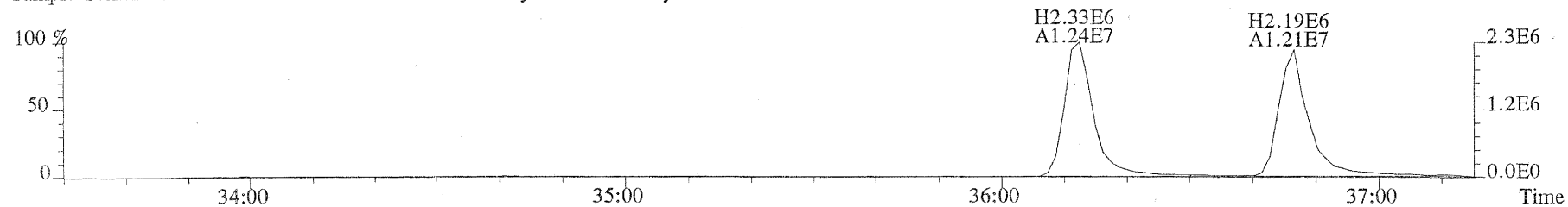
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



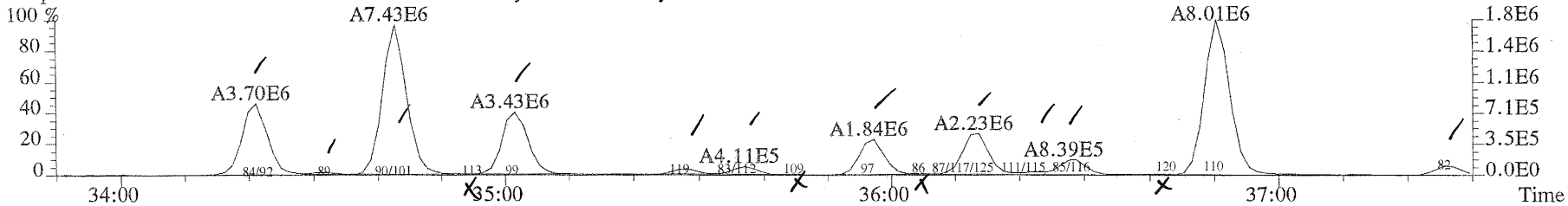
File:31JAN17Z #1-181 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



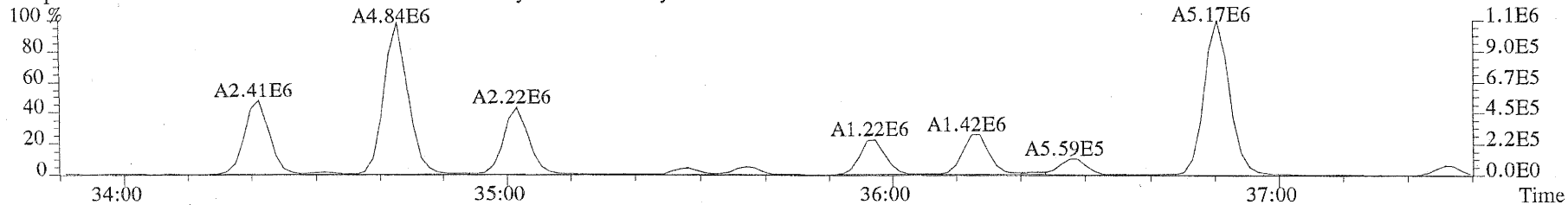
File:31JAN17Z #1-181 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



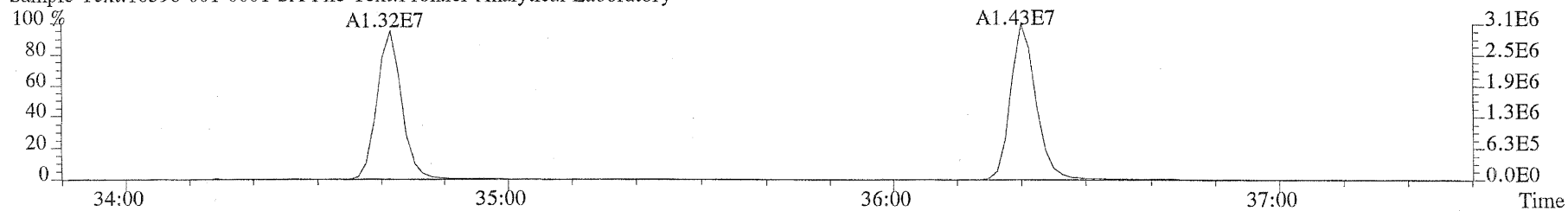
File:31JAN17Z #1-181 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



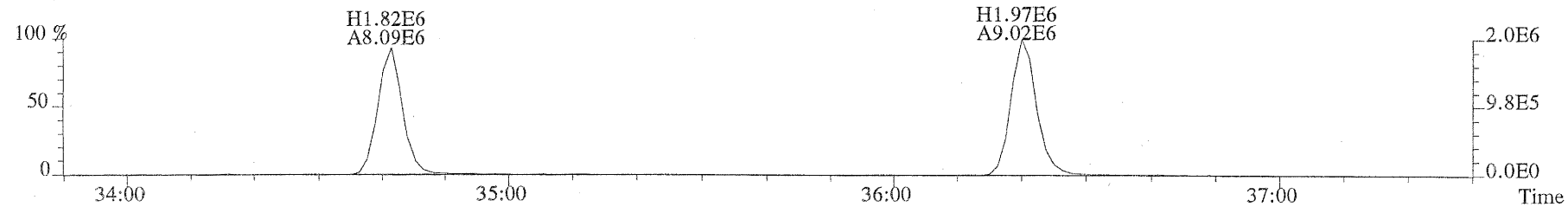
File:31JAN17Z #1-181 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



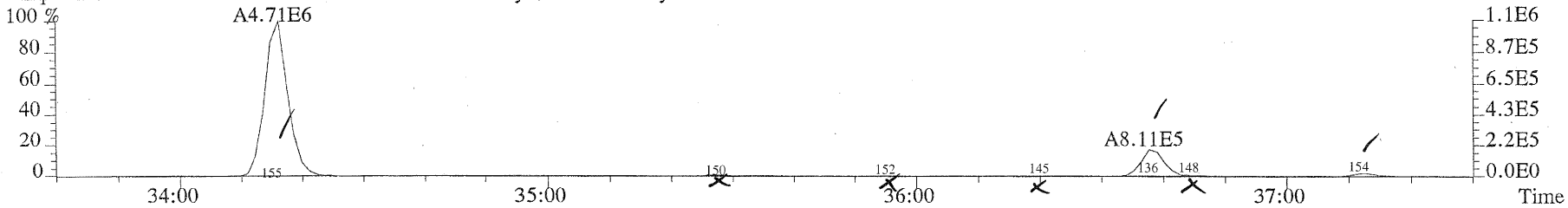
File:31JAN17Z #1-181 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



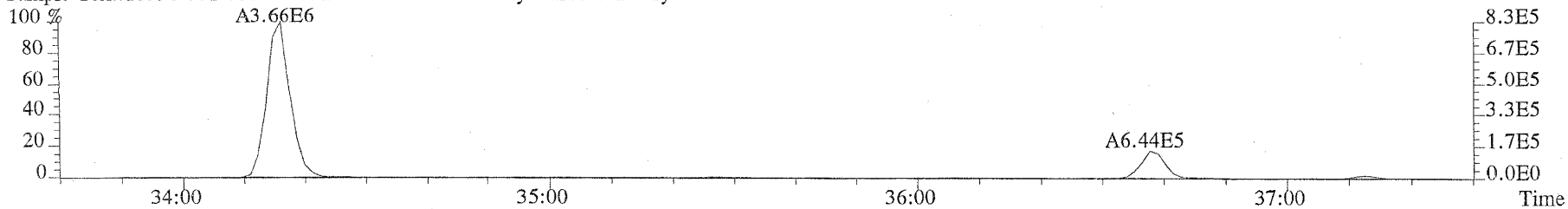
File:31JAN17Z #1-181 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



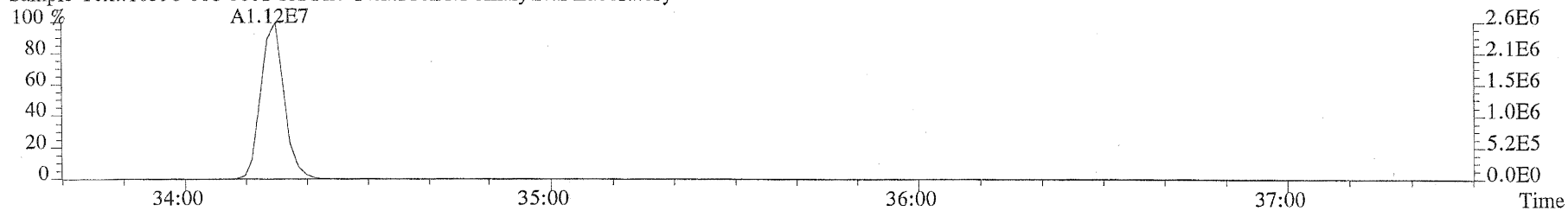
File:31JAN17Z #1-181 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



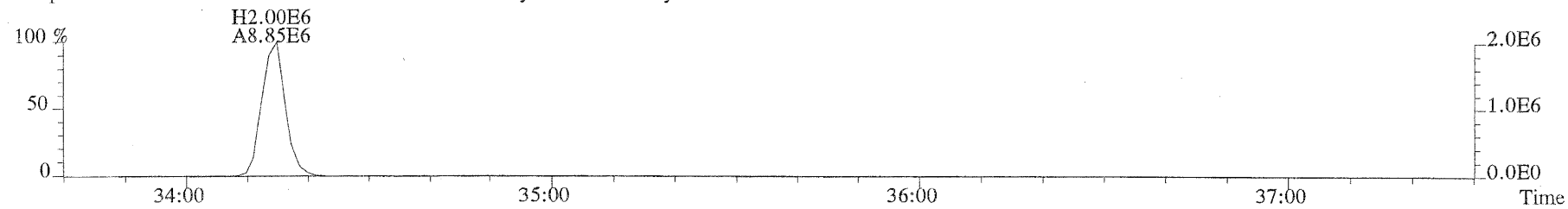
File:31JAN17Z #1-181 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



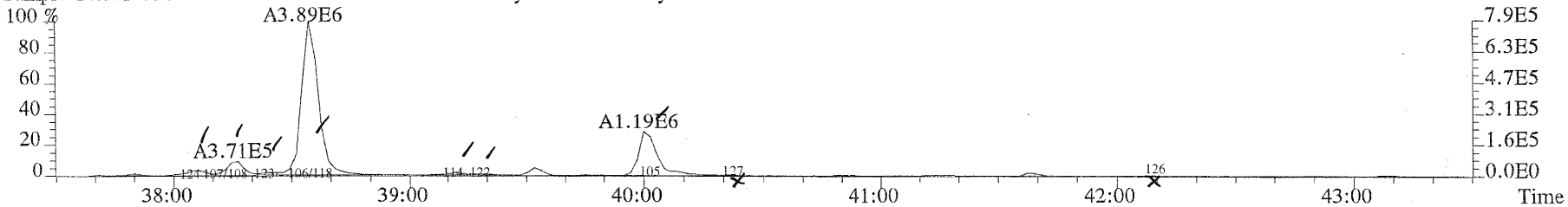
File:31JAN17Z #1-181 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



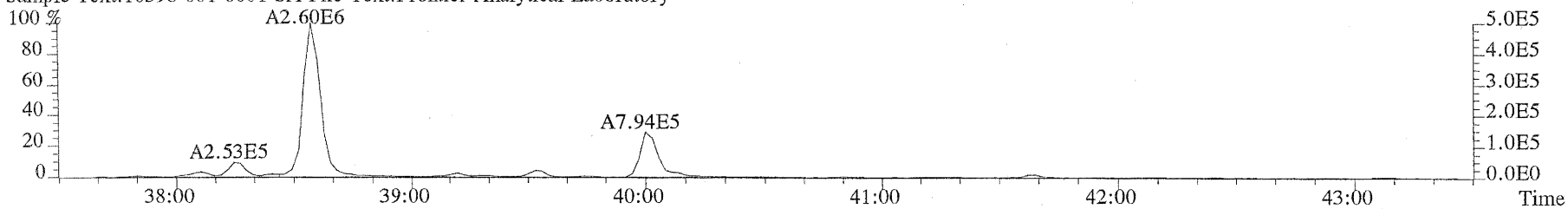
File:31JAN17Z #1-181 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



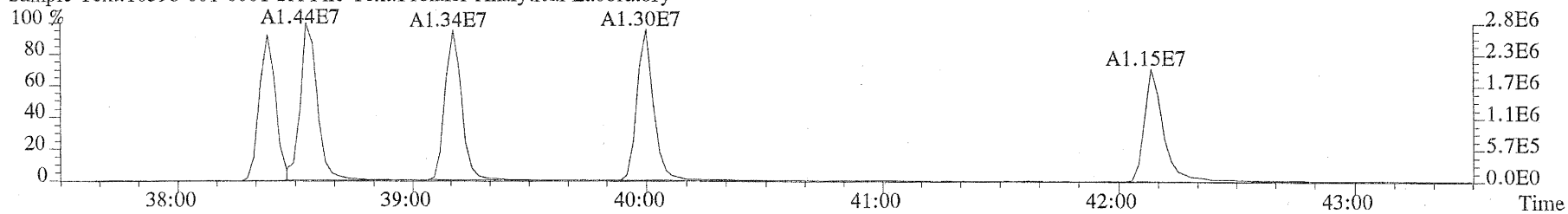
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



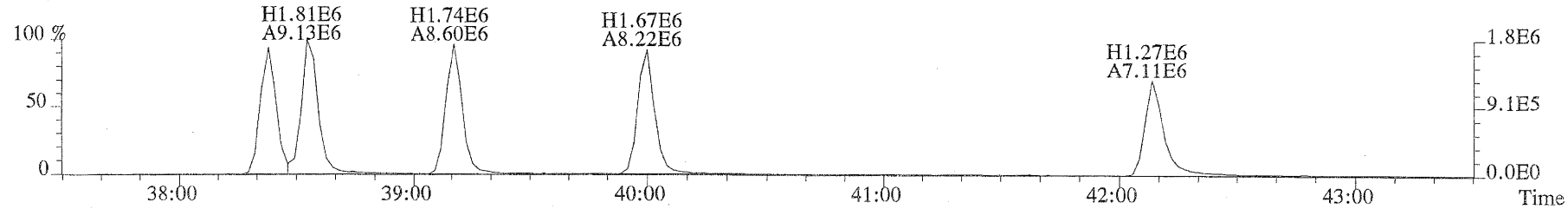
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



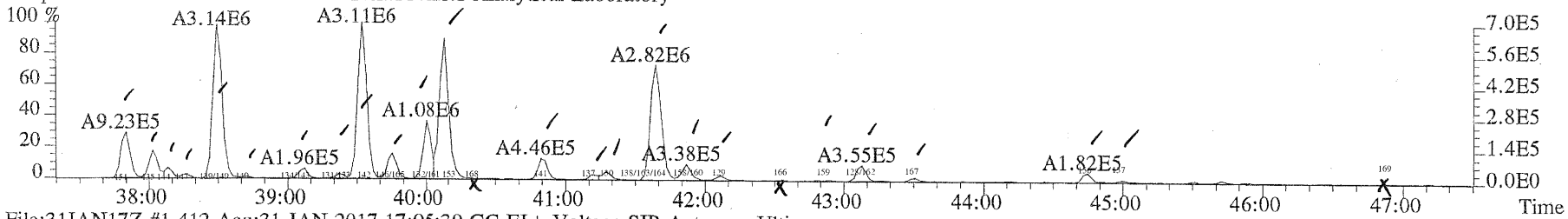
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



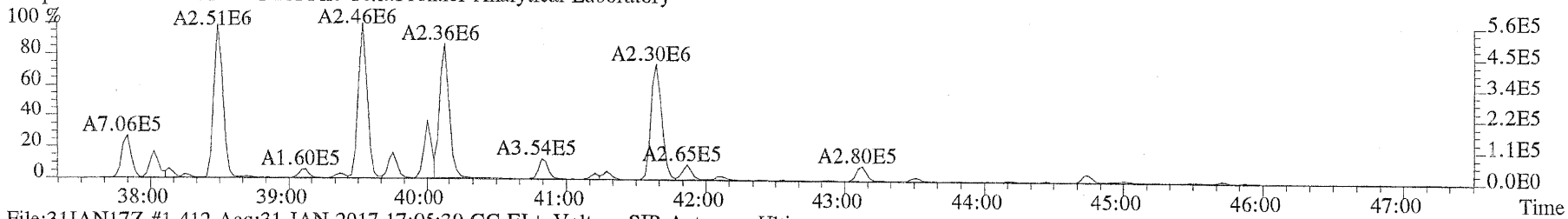
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



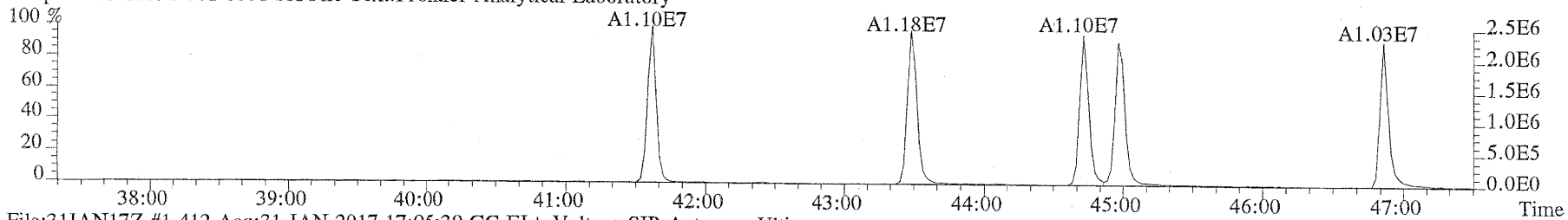
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



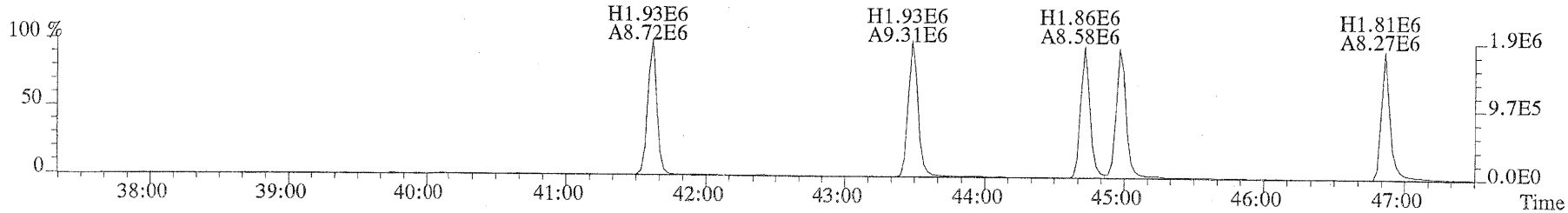
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



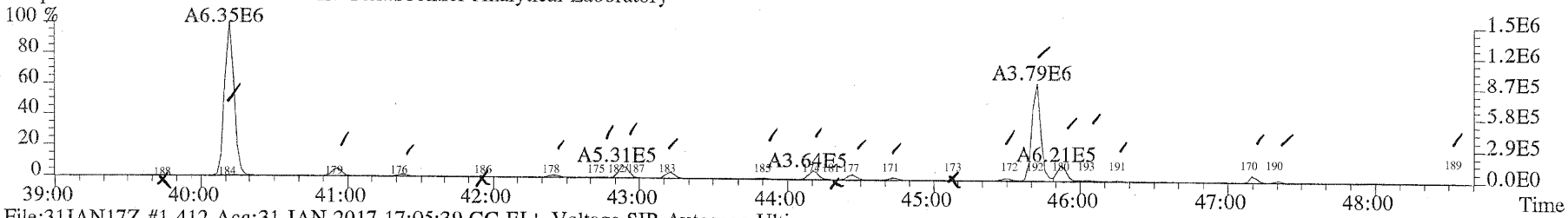
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



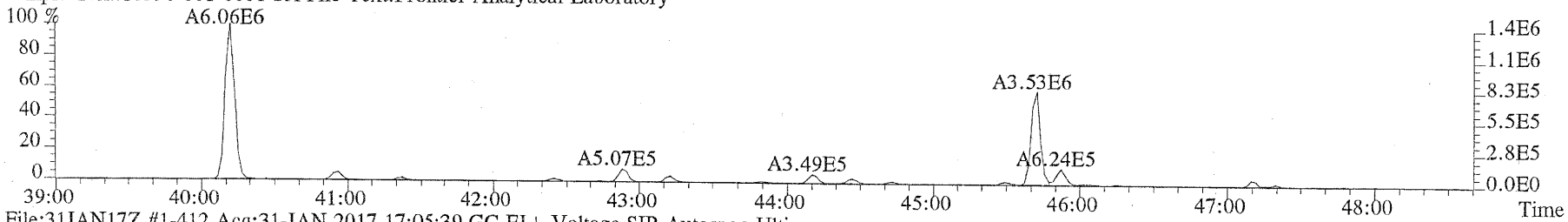
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



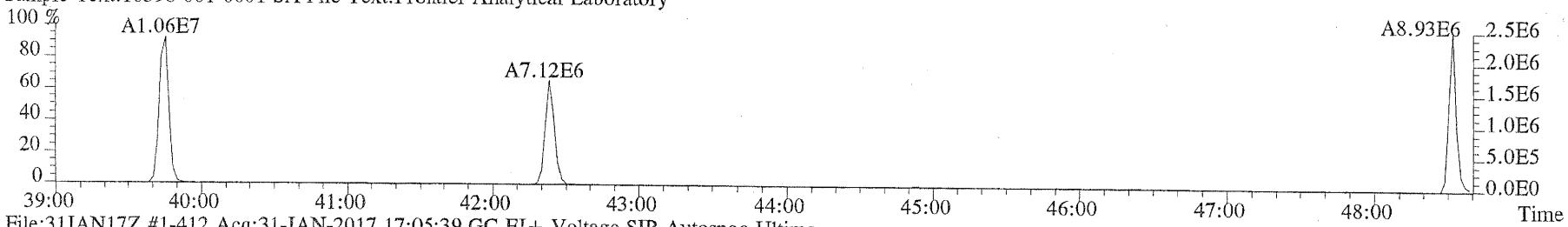
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



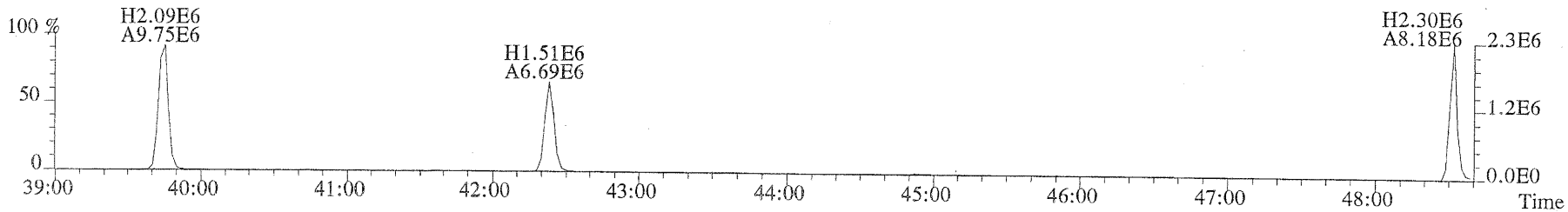
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



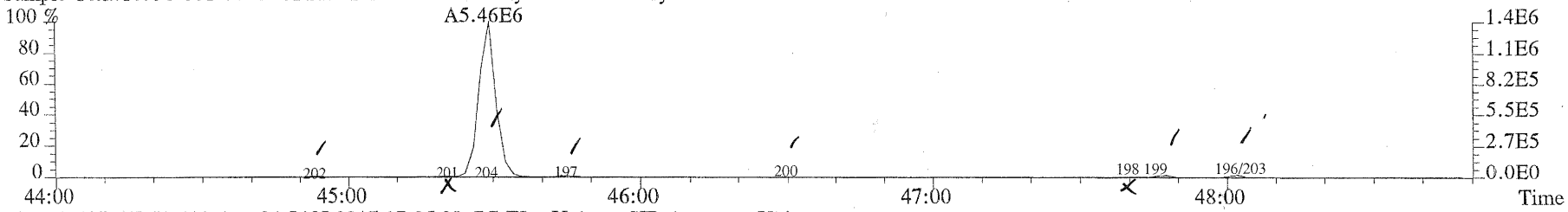
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



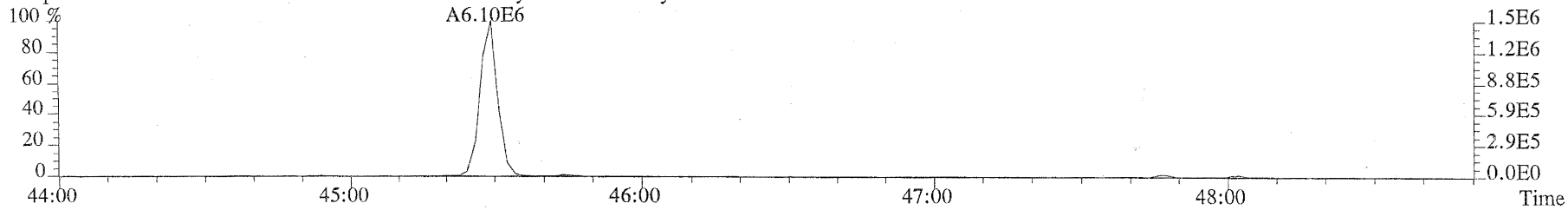
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



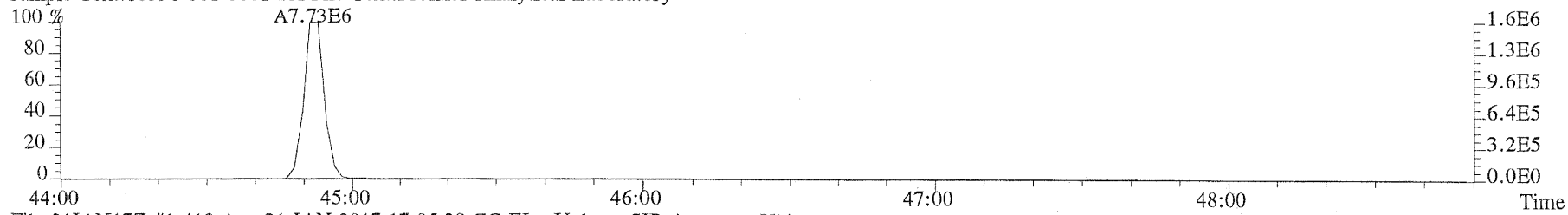
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



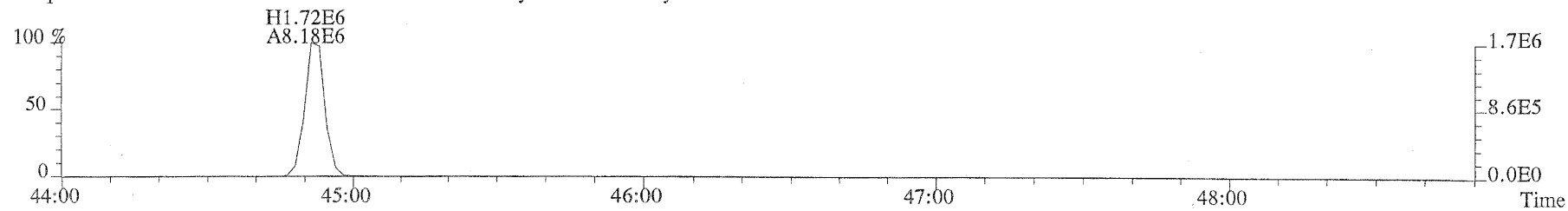
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



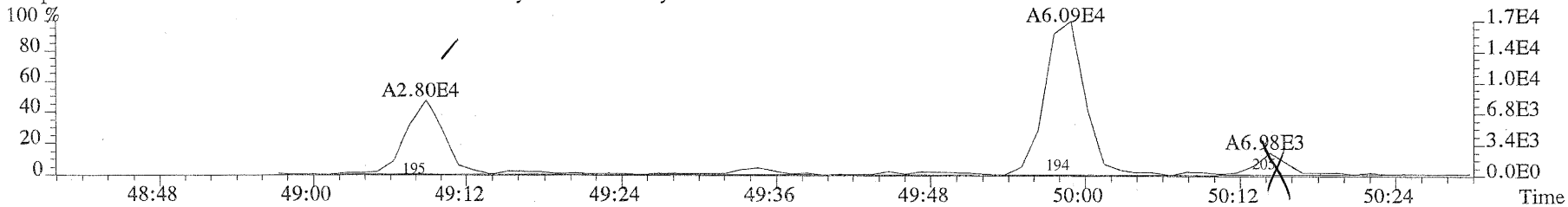
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



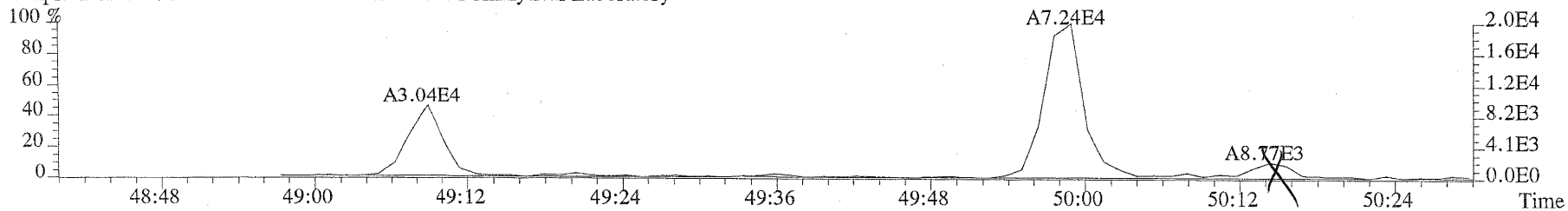
File:31JAN17Z #1-412 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



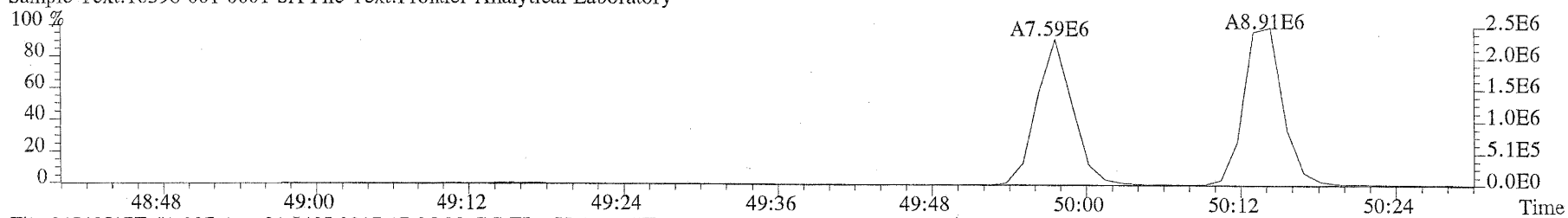
File:31JAN17Z #1-307 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



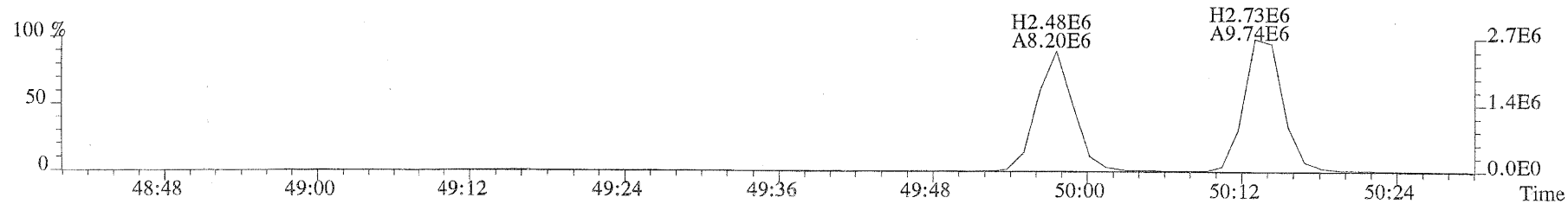
File:31JAN17Z #1-307 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



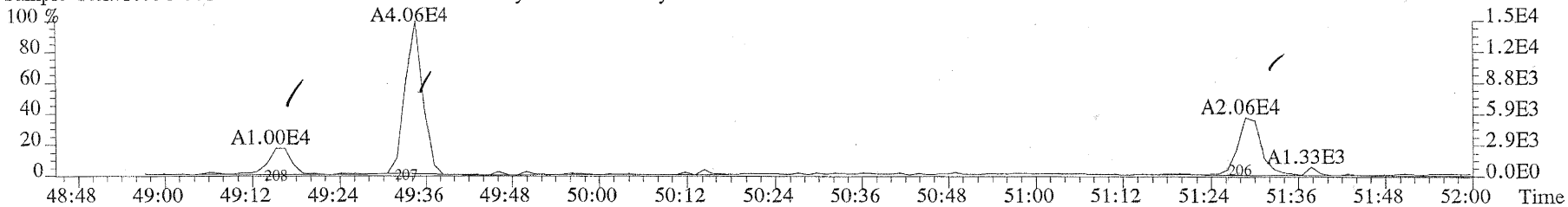
File:31JAN17Z #1-307 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



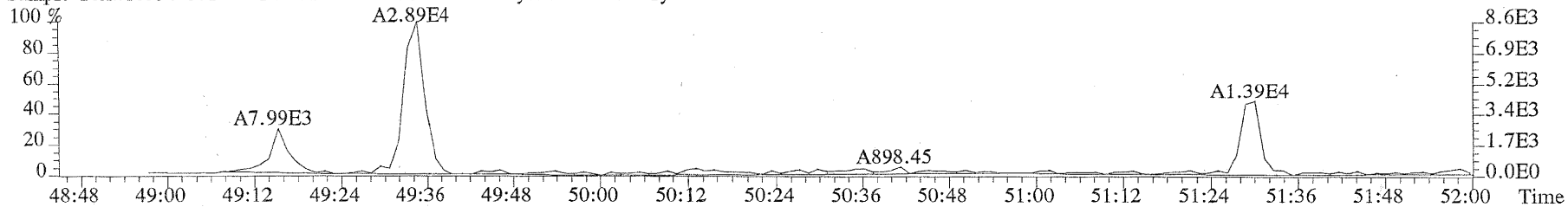
File:31JAN17Z #1-307 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



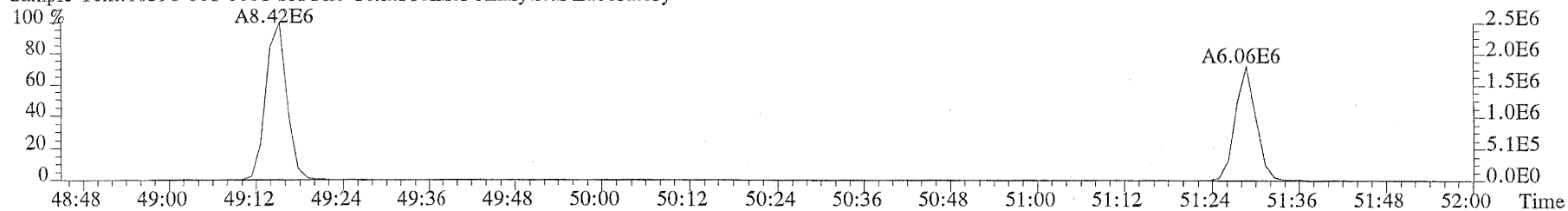
File:31JAN17Z #1-307 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



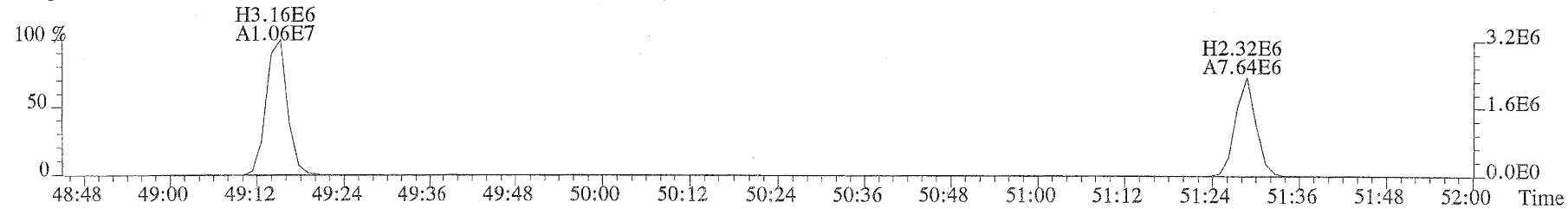
File:31JAN17Z #1-307 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



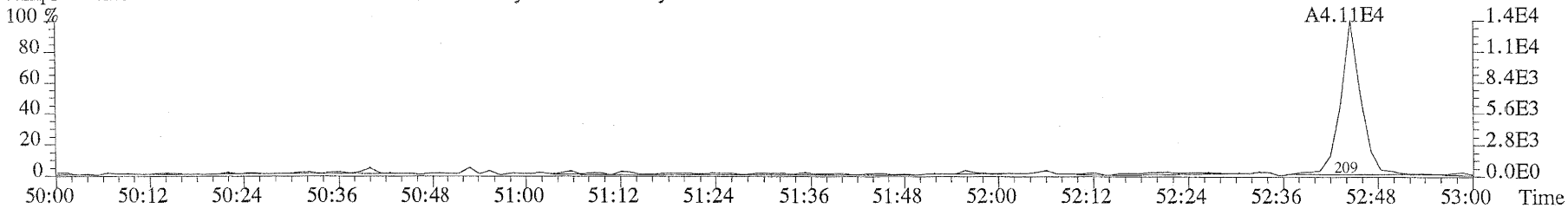
File:31JAN17Z #1-307 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



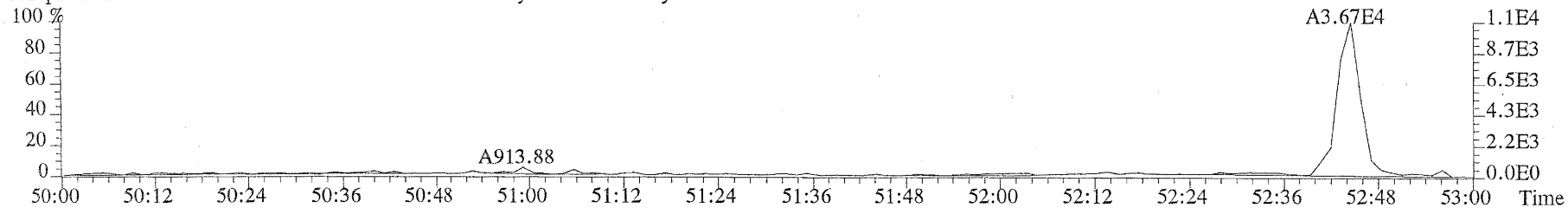
File:31JAN17Z #1-307 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



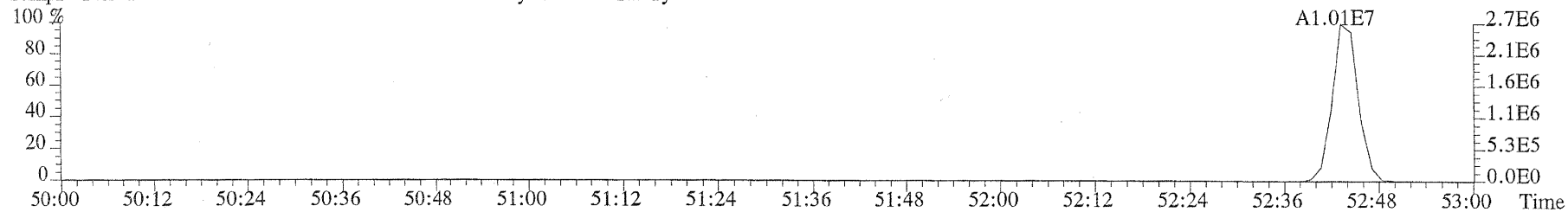
File:31JAN17Z #1-307 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



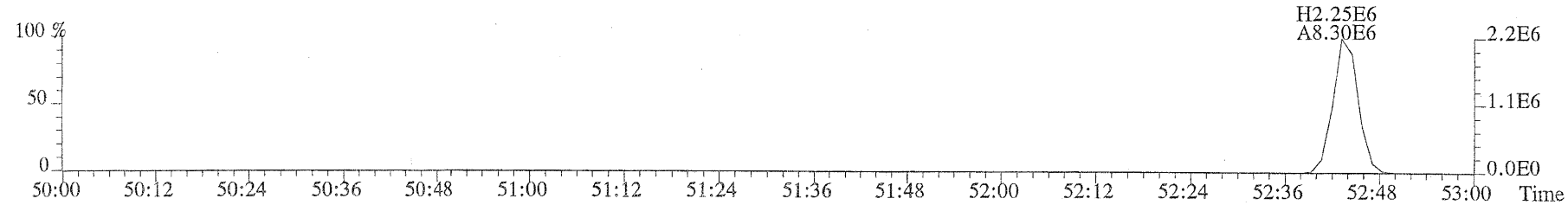
File:31JAN17Z #1-307 Acq:31-JAN-2017 17:05:39 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-001-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 17:05:39 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:10398-001-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 17:05:39 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:10398-001-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10398-002-0001-SA Filename: 31JAN17Z Sam:6 Acquired: 31-JAN-17 18:03:58 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR+AC-CB-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	S/N-1	S/N-2	Rec
PCB-1	1.64e+05	3.18 y	14:32	0.98	52.3		950	680	4.20	40	17	
13C-PCB-1	3.21e+07	3.25 y	14:32	1.01	8910					6200	450	89
PCB-2	*	* n	NotFnd	0.89	*		950	680	5.20	*	*	
PCB-3	2.96e+04	3.35 y	17:00	1.03	9.35	J	950	680	5.06	5.2	3.3	
13C-PCB-3	3.08e+07	3.26 y	16:59	0.97	8980					5000	350	90
PCB-4	2.49e+06	1.58 y	18:13	1.05	1130		1200	1800	12.2	390	180	
PCB-10	5.19e+05	1.48 y	18:16	1.13	174		1200	1800	10.8	100	46	
13C-PCB-4	2.10e+07	1.57 y	18:12	0.63	9440					2800	1600	94
PCB-9	4.51e+05	1.43 y	19:56	1.19	143		1200	1800	10.3	61	32	
PCB-7	4.51e+05	1.43 y	19:56	1.27	135		1200	1800	9.62	61	32	
PCB-6	3.75e+06	1.42 y	20:33	1.23	1150		1200	1800	9.89	440	200	
PCB-8	7.72e+06	1.41 y	20:55	1.11	2630		1200	1800	11.0	850	380	
PCB-5	7.72e+06	1.41 y	20:55	1.29	2270		1200	1800	9.47	850	380	
PCB-14	2.64e+05	1.47 y	21:59	1.15	86.5		1200	1800	10.6	28	36	
PCB-11	1.35e+05	1.73 y	23:08	1.08	47.2		1200	1800	11.2	12	19	
PCB-13	2.03e+05	1.34 y	23:28	1.08	70.9		1200	1800	11.3	29	31	
PCB-12	1.32e+05	1.51 y	23:30	1.13	44.3		1200	1800	10.8	23	29	
PCB-15	1.33e+06	1.46 y	23:48	1.07	389		1200	1800	10.9	90	58	
13C-PCB-15	3.19e+07	1.60 y	23:46	0.94	9530					3000	1700	95
PCB-19	2.24e+06	1.04 y	22:07	1.03	1120		710	390	5.28	420	730	
PCB-30	*	* n	NotFnd	1.46	*		710	390	3.72	*	*	
PCB-18	2.54e+07	1.05 y	23:40	1.02	12900		710	390	5.35	4600	8200	
PCB-17	1.17e+07	1.05 y	23:50	1.10	5460		710	390	4.92	2000	3400	
PCB-27	1.43e+06	1.05 y	24:21	1.41	525		710	390	3.86	390	690	
PCB-24	1.13e+06	1.02 y	24:23	1.44	403		710	390	3.76	300	500	
PCB-16	6.48e+06	1.04 y	24:50	1.18	2810		710	390	4.58	1400	2500	
PCB-32	9.48e+06	1.05 y	24:52	1.29	3790		710	390	4.22	1800	3200	
13C-PCB-19	1.94e+07	1.08 y	22:05	0.57	9540					95	130	95
13C-PCB-9	3.55e+07	1.60 y	19:54	-	48.1					4200	2400	
PCB-34	3.50e+05	1.15 y	25:38	0.98	130		1100	800	10.4	38	45	
PCB-23	6.41e+04	1.05 y	25:43	1.24	18.7	J	1100	800	8.18	8.7	9.6	
PCB-29	2.00e+05	1.11 y	25:57	1.12	64.5		1100	800	9.04	21	25	
PCB-26	7.65e+06	1.06 y	26:10	1.11	2500		1100	800	9.15	790	1000	
PCB-25	3.88e+06	1.07 y	26:19	1.36	1030		1100	800	7.45	390	490	
PCB-31	2.45e+07	1.05 y	26:39	1.13	7860		1100	800	8.99	2900	3700	
PCB-28	2.83e+07	1.07 y	26:45	1.34	7620		1100	800	7.56	2700	3400	
PCB-20/21/33	1.36e+07	1.06 y	27:20	1.18	4150		1100	800	8.58	1300	1700	
PCB-22	7.65e+06	1.05 y	27:45	1.17	2380		1100	800	8.72	790	1000	
PCB-36	2.19e+06	1.07 y	28:21	1.05	756		1100	800	9.71	200	250	
PCB-39	*	* n	NotFnd	1.07	*		1100	800	9.48	*	*	
PCB-38	1.98e+05	1.16 y	29:29	1.09	65.8		1100	800	9.30	21	25	
PCB-35	1.16e+05	1.16 y	30:02	0.97	43.3		1100	800	10.5	9.7	13	
PCB-37	2.13e+06	1.13 y	30:28	1.14	677		1100	800	8.91	190	230	
13C-PCB-37	2.76e+07	1.07 y	30:25	1.14	10900					74	49	110

FAL ID: 10398-002-0001-SA Filename: 31JAN17Z Sam:6 Acquired: 31-JAN-17 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR+AC-CB-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

PCB-54	1.19e+05	0.83	y	25:39	0.99	49.4	960	1400	9.87	12	11	
PCB-50	1.27e+05	0.86	y	26:45	0.74	71.2	960	1400	13.3	12	10	
PCB-53	4.31e+06	0.77	y	27:22	0.74	2420	960	1400	13.3	460	410	
PCB-51	1.37e+06	0.78	y	27:42	0.75	753	960	1400	13.0	150	130	
PCB-45	3.86e+06	0.77	y	28:06	0.65	2440	960	1400	15.0	410	380	
PCB-46	1.50e+06	0.79	y	28:34	0.62	1000	960	1400	15.9	160	140	
PCB-52/69	3.04e+07	0.77	y	29:00	0.95	13200	960	1400	10.3	3300	3000	
PCB-73	*	*	n	NotFnd	0.85	*	960	1400	11.5	*	*	
PCB-43/49	1.89e+07	0.77	y	29:18	0.72	10900	960	1400	13.6	1900	1700	
PCB-47	5.94e+06	0.79	y	29:29	0.91	2680	960	1400	10.7	610	540	
PCB-48/75	5.36e+06	0.79	y	29:36	0.90	2450	960	1400	10.8	570	520	
PCB-65	*	*	n	NotFnd	0.95	*	960	1400	10.3	*	*	
PCB-62	*	*	n	NotFnd	0.84	*	960	1400	11.6	*	*	
PCB-44	1.62e+07	0.78	y	30:15	0.64	10400	960	1400	15.3	1600	1400	
PCB-42/59	7.44e+06	0.78	y	30:28	0.87	3540	960	1400	11.3	750	660	
PCB-41/64/71/72	1.84e+07	0.77	y	31:02	0.94	8100	960	1400	10.4	1500	1400	
PCB-68	2.26e+05	0.83	y	31:17	0.99	93.8	960	1400	9.84	19	17	
PCB-40	2.44e+06	0.78	y	31:28	0.56	1810	960	1400	17.6	240	210	
PCB-57	1.89e+05	0.69	y	31:48	0.94	83.1	960	1400	10.4	18	17	
PCB-67	6.63e+05	0.78	y	32:06	0.86	318	960	1400	11.4	63	54	
PCB-58	1.10e+05	0.71	y	32:13	0.99	46.1	960	1400	9.91	13	13	
PCB-63	8.69e+05	0.77	y	32:21	0.95	378	960	1400	10.3	75	73	
PCB-74	7.64e+06	0.78	y	32:39	0.97	3240	960	1400	10.1	740	660	
PCB-61/70	1.74e+07	0.78	y	32:50	1.03	7010	960	1400	9.55	1700	1500	
PCB-66/76	1.43e+07	0.77	y	33:02	0.99	5990	960	1400	9.92	1200	1100	
PCB-80	*	*	n	NotFnd	1.07	*	960	1400	9.15	*	*	
PCB-55	5.46e+05	0.80	y	33:32	0.97	234	960	1400	10.1	30	28	
13C-PCB-54	2.42e+07	0.78	y	25:38	1.12	9660				2500	3900	97
PCB-104	3.88e+06	1.57	y	30:06	1.06	2010	380	530	5.25	1500	680	
PCB-96	2.13e+05	1.72	y	31:17	0.99	118	380	530	5.63	87	38	
PCB-103	2.53e+05	1.57	y	31:48	0.82	168	380	530	6.76	91	41	
PCB-100	7.91e+04	1.43	y	32:09	0.82	53.0	380	530	6.80	26	15	
PCB-94	9.68e+04	1.63	y	32:35	0.68	77.5	380	530	8.13	37	17	
PCB-98/102	1.34e+07	1.61	y	33:06	0.87	8460	380	530	6.41	4800	2100	
PCB-95	1.34e+07	1.61	y	33:06	0.74	9960	380	530	7.54	4800	2100	
PCB-93	*	*	n	NotFnd	0.70	*	380	530	7.98	*	*	
PCB-88/91	2.16e+06	1.58	y	33:31	0.79	1490	380	530	7.02	990	380	
PCB-121	5.72e+06	1.56	y	33:33	0.93	3380	380	530	5.99	2000	930	
13C-PCB-104	1.82e+07	1.60	y	30:05	0.82	9960				4600	4100	100
13C-PCB-28	3.24e+07	1.04	y	26:44	1.38	10600				110	72	110
13C-PCB-52	2.23e+07	0.78	y	28:59	-	44.8				2200	3500	
PCB-56/60	7.91e+06	0.76	y	34:01	1.06	3070	1000	1200	11.8	670	720	
PCB-79	1.76e+05	0.69	y	35:02	1.08	67.0	1000	1200	11.5	15	18	
PCB-78	4.64e+06	0.78	y	35:43	1.03	1870	1000	1200	12.2	370	400	
PCB-81	3.26e+05	0.71	y	36:14	1.07	125	1000	1200	11.4	26	26	
13C-PCB-81	2.45e+07	0.80	y	36:12	1.02	11700				1800	5100	120
PCB-77	5.93e+05	0.69	y	36:48	0.99	249	1000	1200	13.1	41	42	
13C-PCB-77	2.40e+07	0.81	y	36:47	1.01	11600				1700	4800	120

PCB-155	8.23e+06	1.29	y	34:16	1.01	4190		440	510	5.35	2500	1600	
PCB-150	*	*	n	NotFnd	0.91	*		440	510	5.92	*	*	
PCB-152	*	*	n	NotFnd	0.90	*		440	510	6.00	*	*	
PCB-145	*	*	n	NotFnd	0.89	*		440	510	6.08	*	*	
PCB-136	1.92e+06	1.29	y	36:38	0.93	1060		440	510	5.82	530	370	
PCB-148	*	*	n	NotFnd	0.64	*		440	510	8.40	*	*	
PCB-154	1.64e+05	1.35	y	37:12	0.78	108		440	510	6.92	48	31	
13C-PCB-155	1.95e+07	1.27	y	34:15	1.02	9300					4200	3500	93
13C-PCB-111	2.45e+07	1.61	y	36:20	1.11	10700					2300	1200	110
13C-PCB-101	2.06e+07	1.67	y	34:41	-	45.5					2100	1100	
PCB-84/92	7.33e+06	1.58	y	34:21	0.79	3910		890	1000	12.2	1100	600	
PCB-89	2.47e+05	1.35	y	34:31	0.73	144		890	1000	13.3	41	22	
PCB-90/101	1.60e+07	1.58	y	34:43	0.85	7990		890	1000	11.4	2400	1400	
PCB-113	*	*	n	NotFnd	1.01	*		890	1000	9.60	*	*	
PCB-99	6.97e+06	1.54	y	35:02	0.88	3340		890	1000	10.9	1000	580	
PCB-119	5.30e+05	1.42	y	35:28	1.08	207		890	1000	8.93	84	49	
PCB-83/112	8.31e+05	1.59	y	35:37	0.84	418		890	1000	11.5	120	68	
PCB-109	*	*	n	NotFnd	1.01	*		890	1000	9.53	*	*	
PCB-97	4.22e+06	1.52	y	35:57	0.92	1930		890	1000	10.5	610	360	
PCB-86	*	*	n	NotFnd	0.82	*		890	1000	11.8	*	*	
PCB-87/117/125	5.52e+06	1.53	y	36:14	0.95	2450		890	1000	10.2	780	450	
PCB-111/115	3.30e+05	1.62	y	36:21	1.16	120		890	1000	8.33	51	28	
PCB-85/116	2.09e+06	1.56	y	36:28	0.89	993		890	1000	10.9	290	180	
PCB-120	*	*	n	NotFnd	1.12	*		890	1000	8.65	*	*	
PCB-110	1.75e+07	1.58	y	36:50	1.07	6920		890	1000	9.04	2600	1400	
PCB-82	1.22e+06	1.59	y	37:26	0.63	822		890	1000	15.4	180	100	
PCB-124	4.16e+05	1.67	y	38:07	1.04	169		1200	850	9.85	41	35	
PCB-107/108	8.27e+05	1.46	y	38:15	0.99	353		1200	850	10.3	81	73	
PCB-123	1.42e+05	1.59	y	38:25	1.22	52.0		1200	850	8.11	20	17	
13C-PCB-123	2.24e+07	1.57	y	38:23	1.07	10200					740	280	100
PCB-118/106	9.33e+06	1.58	y	38:34	0.96	3850		1200	850	10.8	1000	870	
13C-PCB-118	2.53e+07	1.62	y	38:33	1.18	10400					710	260	100
PCB-114	2.52e+05	1.61	y	39:12	1.07	99.6		1200	850	9.42	22	22	
13C-PCB-114	2.37e+07	1.63	y	39:11	1.11	10400					730	270	100
PCB-122	1.28e+05	1.66	y	39:19	0.96	56.6		1200	850	10.7	13	11	
PCB-105	3.21e+06	1.56	y	40:02	1.02	1360		1200	850	10.6	290	260	
13C-PCB-105	2.32e+07	1.62	y	40:00	1.09	10400					680	250	100
PCB-127	*	*	n	NotFnd	0.89	*		1200	850	11.5	*	*	
PCB-126	4.20e+04	1.38	y	42:08	1.05	19.1	J	1200	850	12.6	3.1	3.8	
13C-PCB-126	2.10e+07	1.63	y	42:08	0.90	11400					560	200	110
PCB-151	2.17e+06	1.24	y	37:50	0.81	1210		1000	890	12.7	270	250	
PCB-135	1.18e+06	1.27	y	38:02	0.80	668		1000	890	12.8	160	140	
PCB-144	5.79e+05	1.29	y	38:08	0.85	308		1000	890	12.1	64	56	
PCB-147	1.83e+05	1.17	y	38:16	0.95	87.6		1000	890	10.9	22	20	
PCB-139/149	7.73e+06	1.27	y	38:30	0.91	3830		1000	890	11.3	970	870	
PCB-140	9.49e+04	1.08	y	38:41	0.91	47.4		1000	890	11.4	10	7.5	
PCB-134/143	4.97e+05	1.23	y	39:07	0.83	270		1000	890	12.4	57	54	
PCB-131/133	2.10e+05	1.32	y	39:22	0.85	112		1000	890	12.1	26	25	
PCB-142	5.55e+06	1.26	y	39:32	0.73	3450		1000	890	14.1	690	630	
PCB-146/165	1.25e+06	1.22	y	39:45	1.00	566		1000	890	10.3	150	140	
PCB-132/161	2.68e+06	1.23	y	40:00	0.97	1260		1000	890	10.7	340	320	
PCB-153	7.44e+06	1.26	y	40:08	0.90	3760		1000	890	11.5	880	780	
PCB-168	*	*	n	NotFnd	1.10	*		1000	890	9.43	*	*	
PCB-141	1.25e+06	1.22	y	40:49	0.84	676		1000	890	12.3	130	120	
PCB-137	2.59e+05	1.21	y	41:12	0.91	130		1000	890	11.4	37	35	

FAL ID: 10398-002-0001-SA Filename: 31JAN17Z Sam:6 Acquired: 31-JAN-17 18:03:58 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR+AC-CB-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

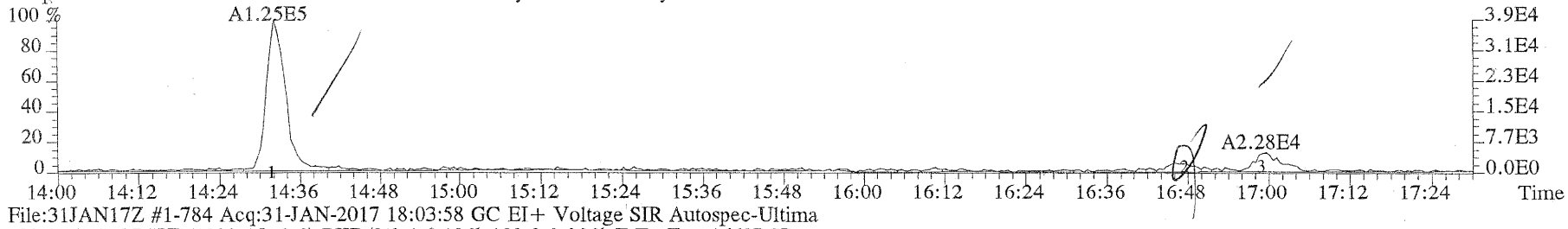
PCB-130	4.62e+05	1.41	y	41:17	0.64	326		1000	890	16.0	52	42	
PCB-138/163/164	7.65e+06	1.24	y	41:39	1.10	3170		1000	890	9.43	820	740	
PCB-158/160	9.63e+05	1.23	y	41:52	1.09	401		1000	890	9.47	110	97	
PCB-129	2.99e+05	1.33	y	42:07	0.69	195		1000	890	14.9	38	33	
PCB-166	*	*	n	NotFnd	1.07	*		1000	890	9.66	*	*	
PCB-159	7.50e+04	1.14	y	42:55	1.06	32.0		1000	890	9.70	7.2	7.2	
PCB-128/162	9.81e+05	1.26	y	43:08	0.92	484		1000	890	11.2	120	100	
PCB-167	2.22e+05	1.18	y	43:31	0.93	103		1000	890	10.9	27	23	
13C-PCB-167	2.31e+07	1.25	y	43:29	1.09	10300					1000	970	100
PCB-156	5.66e+05	1.25	y	44:45	0.97	272		1000	890	10.6	69	57	
13C-PCB-156	2.14e+07	1.28	y	44:43	1.01	10400					1100	930	100
PCB-157	1.22e+05	1.23	y	45:00	0.97	54.0		1000	890	10.6	13	13	
13C-PCB-157	2.33e+07	1.31	y	44:58	1.04	10900					1100	940	110
PCB-169	*	*	n	NotFnd	0.92	*		1000	890	11.6	*	*	
13C-PCB-169	2.03e+07	1.24	y	46:52	0.87	11400					1000	920	110
PCB-188	*	*	n	NotFnd	1.07	*		700	490	5.96	*	*	
13C-PCB-188	2.12e+07	1.07	y	39:45	1.14	9060					3700	4600	91
PCB-184	1.24e+07	1.06	y	40:12	1.21	5160		700	490	5.02	2100	2800	
PCB-179	9.52e+05	1.04	y	40:56	1.17	410		700	490	5.20	150	210	
PCB-176	2.81e+05	1.12	y	41:22	1.12	126		700	490	5.42	51	63	
PCB-186	*	*	n	NotFnd	1.12	*		700	490	5.39	*	*	
PCB-178	2.49e+05	1.11	y	42:25	0.82	153		700	490	7.42	43	59	
PCB-175	5.01e+04	1.02	y	42:45	0.87	29.0		700	490	6.99	9.3	12	
PCB-182/187	1.56e+06	1.02	y	42:53	0.92	852		700	490	6.61	230	340	
PCB-183	7.67e+05	1.05	y	43:13	0.91	422		700	490	6.64	130	180	
PCB-185	1.40e+05	1.15	y	43:51	0.84	83.6		700	490	7.20	25	30	
PCB-174	1.21e+06	1.07	y	44:10	0.93	655		700	490	6.52	200	260	
PCB-181	*	*	n	NotFnd	0.72	*		700	490	8.40	*	*	
PCB-177	6.45e+05	0.97	y	44:27	0.76	424		700	490	7.94	100	150	
PCB-171	3.00e+05	1.02	y	44:43	0.80	187		700	490	7.53	46	65	
PCB-173	*	*	n	NotFnd	0.73	*		700	490	8.27	*	*	
PCB-172	2.84e+05	1.11	y	45:31	0.75	189		700	490	8.04	39	47	
PCB-192	6.95e+06	1.07	y	45:42	0.97	3590		700	490	6.24	1200	1500	
PCB-180	2.06e+06	1.09	y	45:52	0.96	1080		700	490	6.29	350	450	
PCB-193	1.66e+05	1.09	y	46:02	1.06	78.4		700	490	5.71	23	31	
PCB-191	5.19e+04	1.16	y	46:15	1.02	25.6		700	490	5.96	7.6	13	
PCB-170	7.20e+05	1.05	y	47:10	0.70	519		700	490	8.71	130	180	
PCB-190	2.10e+05	0.92	y	47:20	0.95	111		700	490	6.38	37	56	
PCB-189	3.72e+04	1.19	y	48:32	1.04	19.2	J	700	490	5.47	7.6	8.7	
13C-PCB-189	1.86e+07	1.12	y	48:32	0.85	10700					4100	5100	110
PCB-202	8.70e+04	0.97	y	44:53	0.90	57.2		300	360	5.32	29	29	
PCB-201	4.34e+04	0.91	y	45:21	0.93	27.5		300	360	5.12	20	18	
PCB-204	1.09e+07	0.91	y	45:29	0.85	7610		300	360	5.65	4100	3700	
PCB-197	1.23e+05	0.97	y	45:46	0.92	79.2		300	360	5.22	40	42	
PCB-200	5.64e+04	0.80	y	46:30	0.88	37.8		300	360	5.42	20	20	
PCB-198	*	*	n	NotFnd	0.56	*		300	360	8.57	*	*	
PCB-199	2.48e+05	0.87	y	47:48	0.68	215		300	360	7.01	93	93	
PCB-196/203	2.76e+05	0.86	y	48:02	0.67	243		300	360	7.10	110	110	
13C-PCB-202	1.69e+07	0.93	y	44:53	0.92	8990					5100	4400	90
13C-PCB-178	1.46e+07	1.07	y	42:23	0.80	8930					2500	3200	89
13C-PCB-138	2.05e+07	1.27	y	41:37	-	50.0					1100	940	

FAL ID: 10398-002-0001-SA Filename: 31JAN17Z Sam:6 Acquired: 31-JAN-17 18:03:58 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR+AC-CB-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

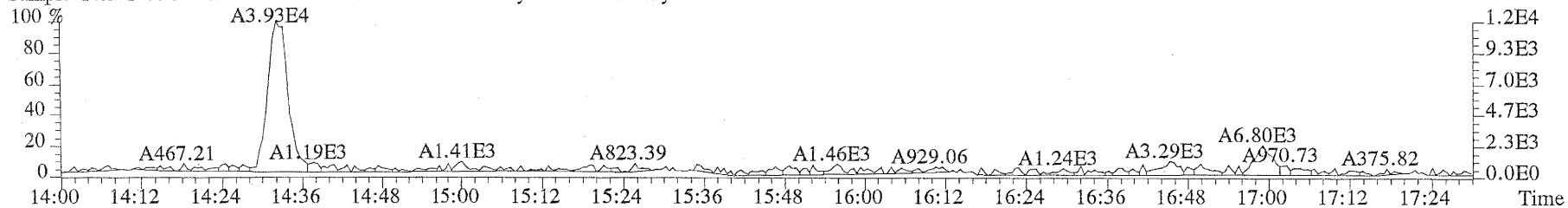
PCB-195	1.15e+05	0.86	y	49:09	0.78	71.1		290	1200	7.43	55	16	
PCB-194	2.44e+05	0.87	y	49:59	0.83	141		920	1200	9.87	39	30	
PCB-205	*	*	n	NotFnd	1.07	*		920	1200	7.67	*	*	
13C-PCB-205	2.07e+07	0.91	y	50:13	1.19	10200					4600	4700	100
PCB-208	2.44e+04	1.17	y	49:17	0.91	13.2	J	260	280	2.21	15	10	
13C-PCB-208	2.04e+07	0.80	y	49:15	1.31	9240					5000	9600	92
PCB-207	7.09e+04	1.38	y	49:35	1.04	38.3		260	280	2.37	47	31	
PCB-206	4.95e+04	1.36	y	51:29	0.93	35.2		260	280	3.34	31	24	
13C-PCB-206	1.51e+07	0.79	y	51:28	0.94	9540					3100	6300	95
PCB-209	7.81e+04	1.19	y	52:45	0.99	40.0		340	280	2.77	35	32	
13C-PCB-209	1.97e+07	1.18	y	52:43	1.29	9050					8900	8000	90
13C-PCB-194	1.69e+07	0.92	y	49:58	-	53.6					3500	3600	

Analyst: [illegible] Date: 2/3/17

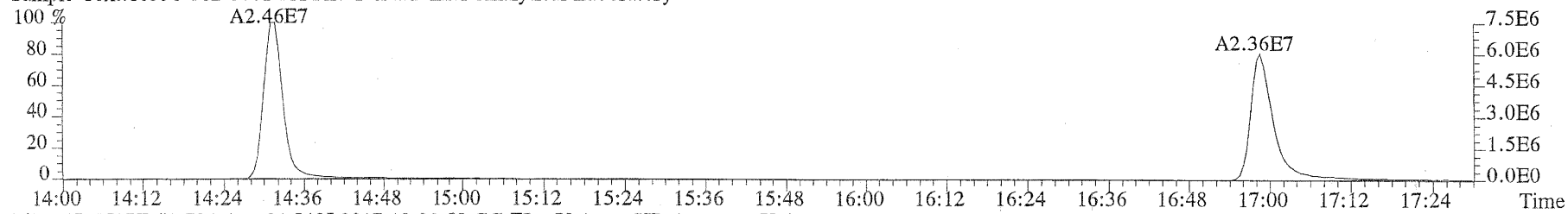
File:31JAN17Z #1-784 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



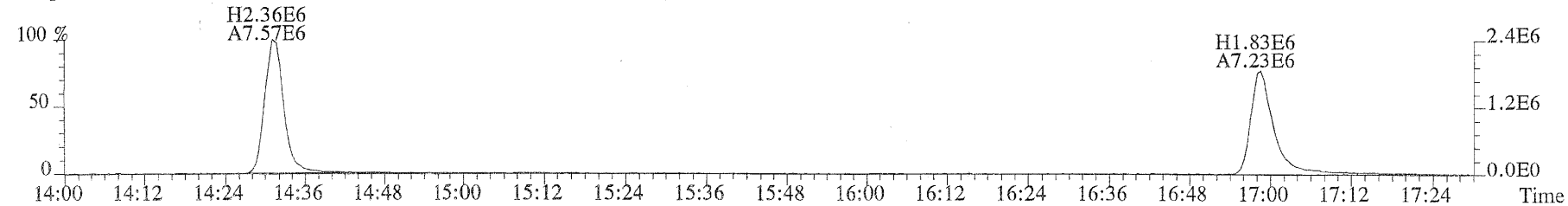
File:31JAN17Z #1-784 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



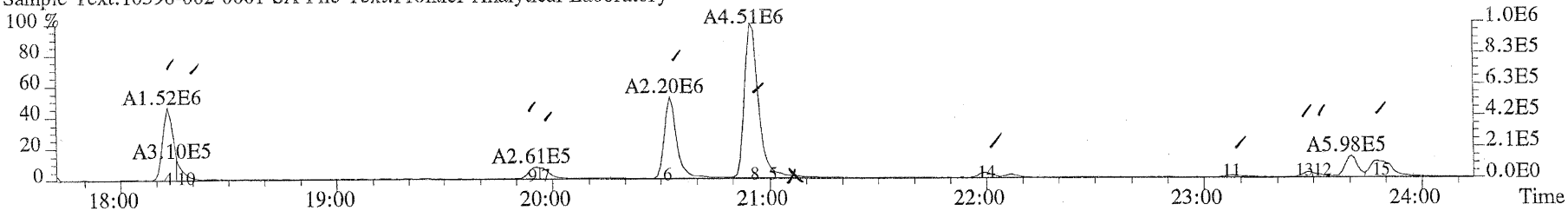
File:31JAN17Z #1-784 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



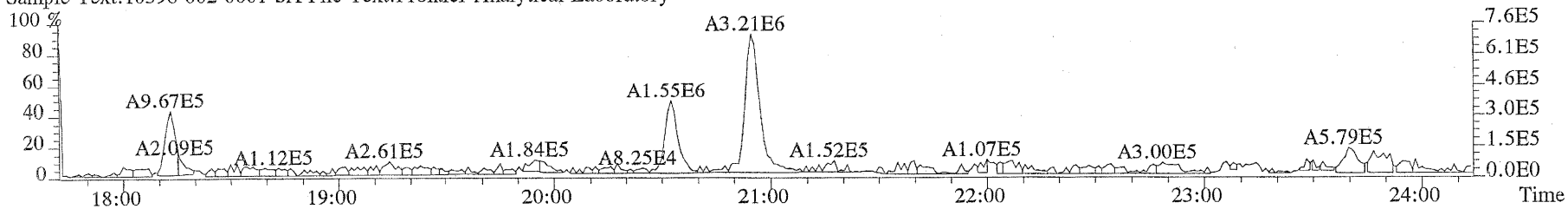
File:31JAN17Z #1-784 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



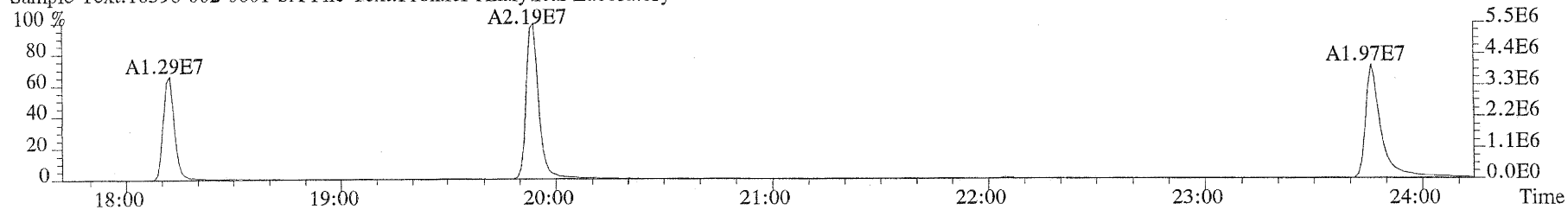
File:31JAN17Z #1-509 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



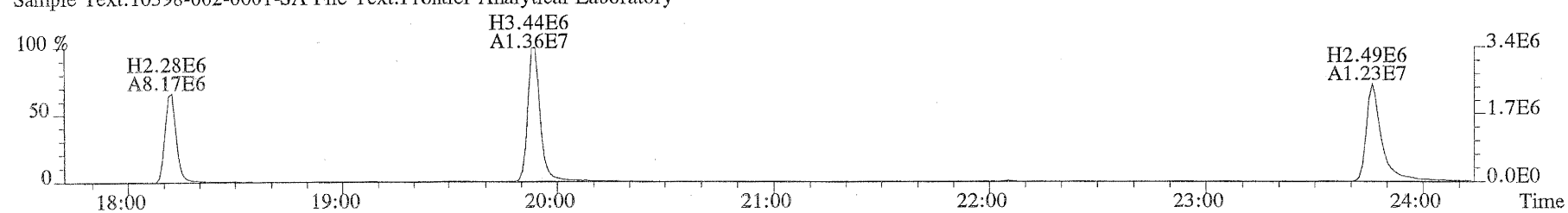
File:31JAN17Z #1-509 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



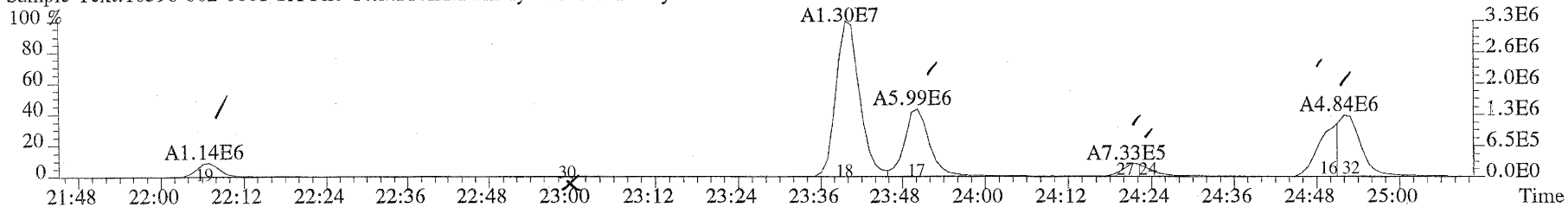
File:31JAN17Z #1-509 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



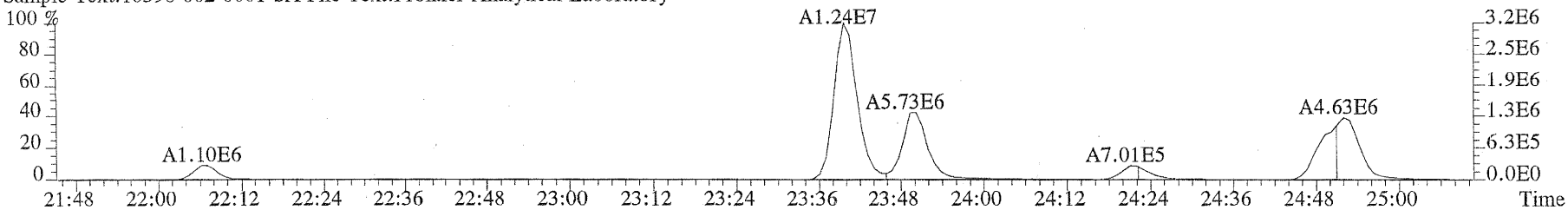
File:31JAN17Z #1-509 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



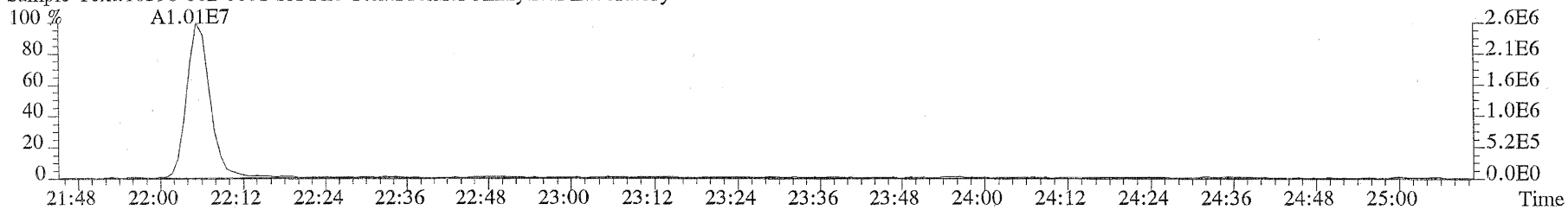
File:31JAN17Z #1-509 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



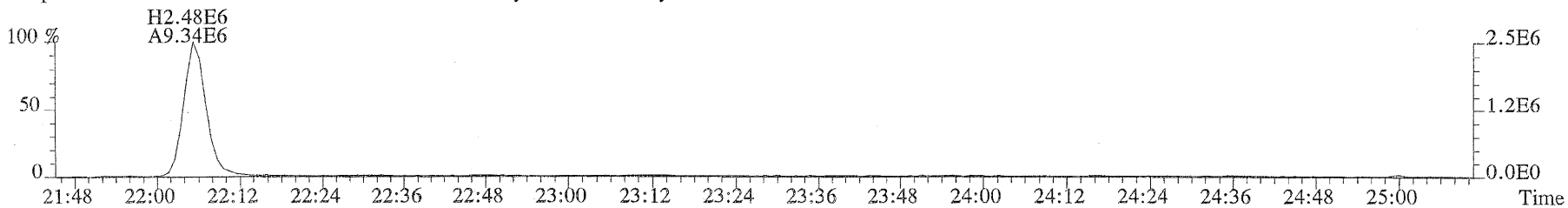
File:31JAN17Z #1-509 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



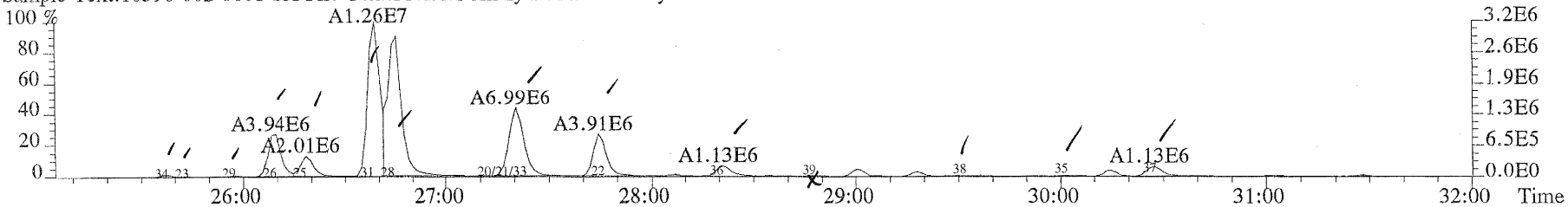
File:31JAN17Z #1-509 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



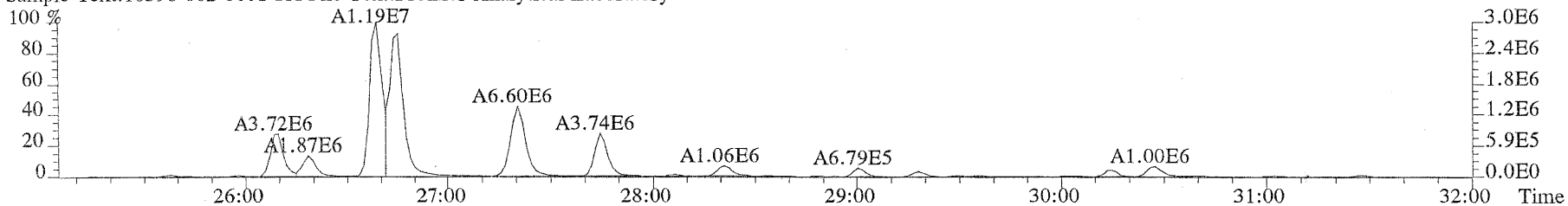
File:31JAN17Z #1-509 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



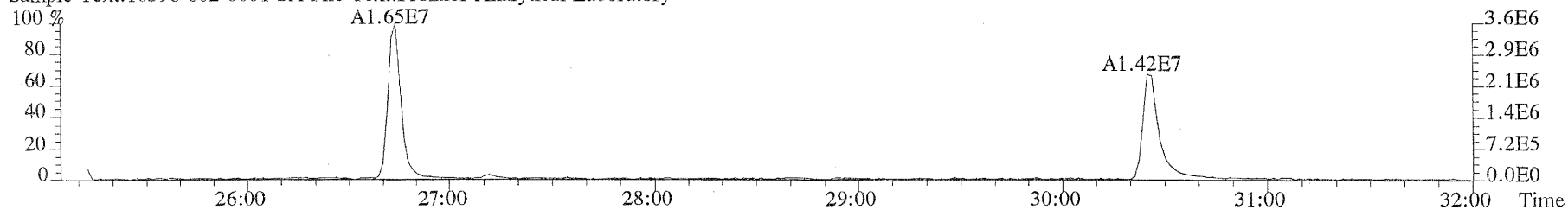
File:31JAN17Z #1-407 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



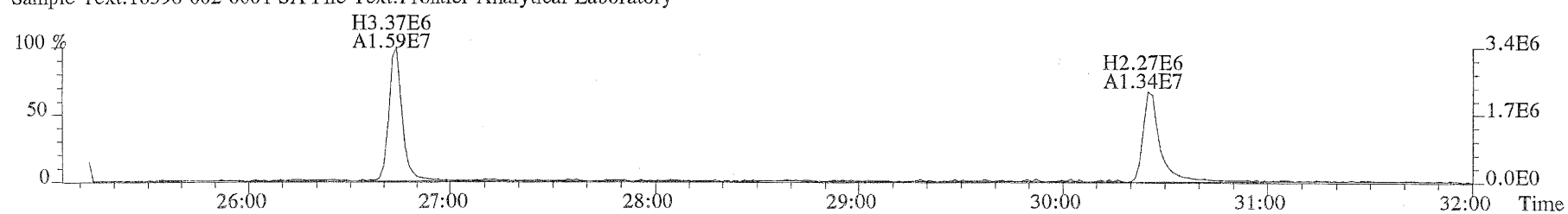
File:31JAN17Z #1-407 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



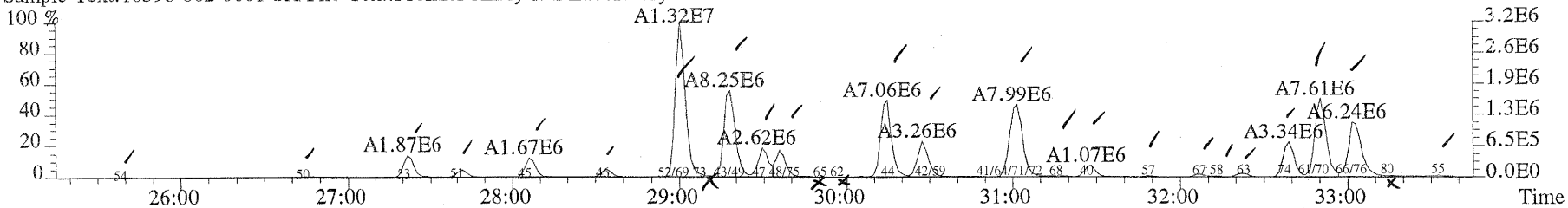
File:31JAN17Z #1-407 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



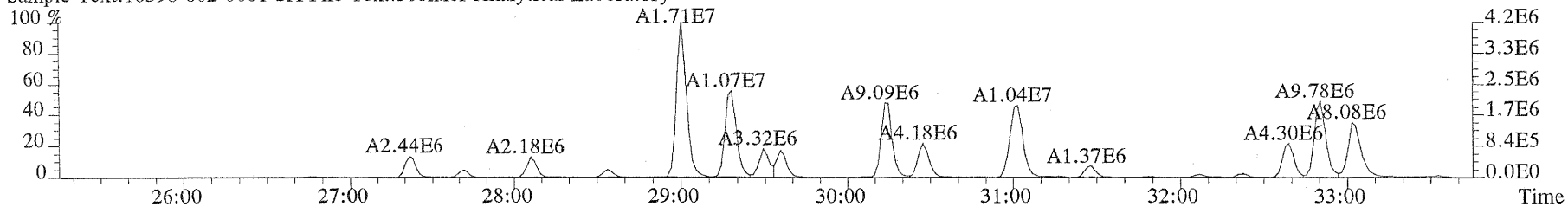
File:31JAN17Z #1-407 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



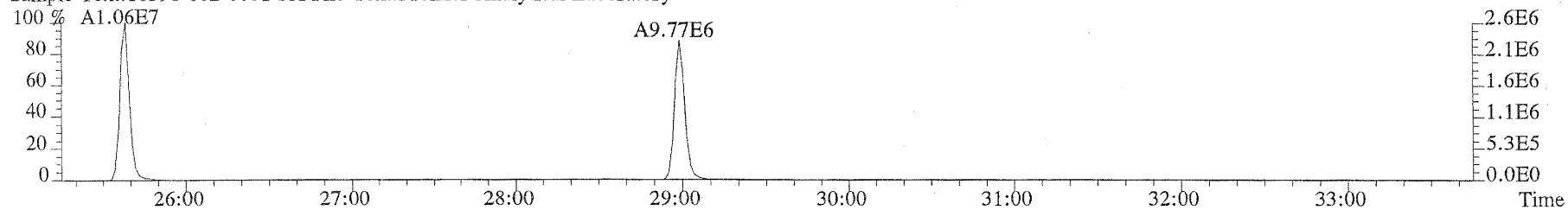
File:31JAN17Z #1-407 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



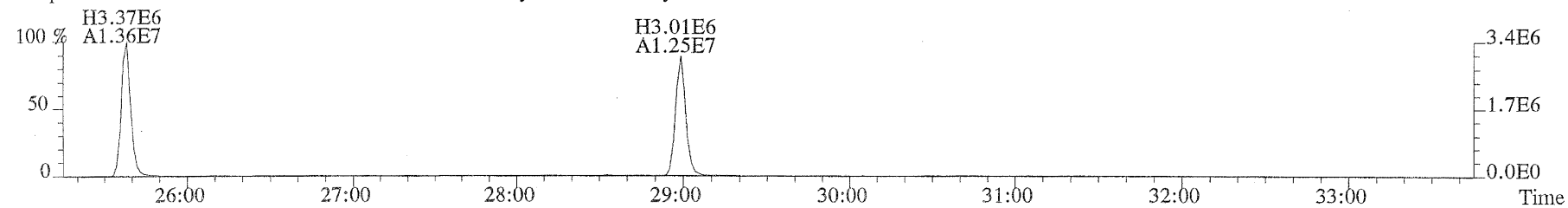
File:31JAN17Z #1-407 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



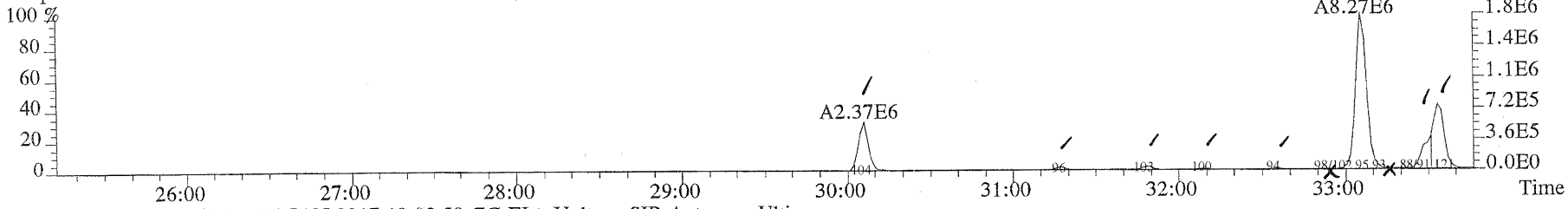
File:31JAN17Z #1-407 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



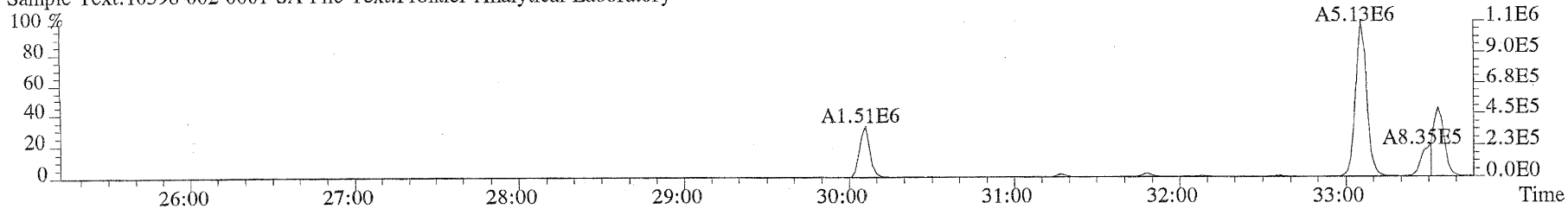
File:31JAN17Z #1-407 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



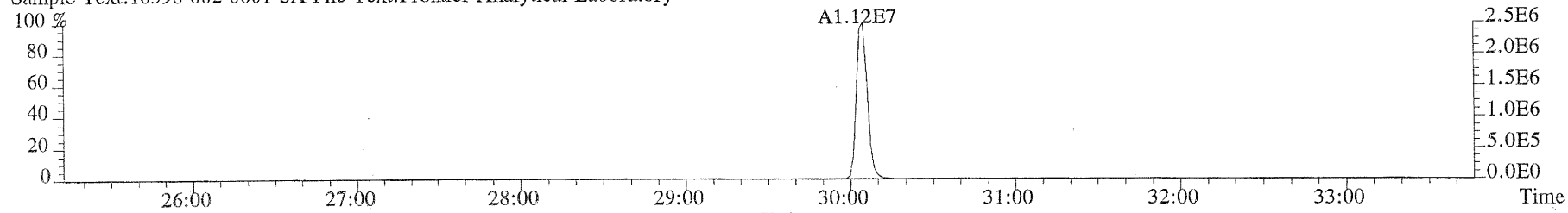
File:31JAN17Z #1-407 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



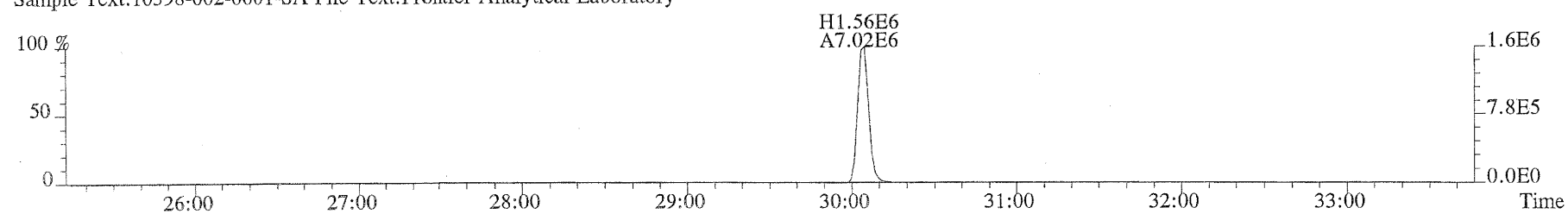
File:31JAN17Z #1-407 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



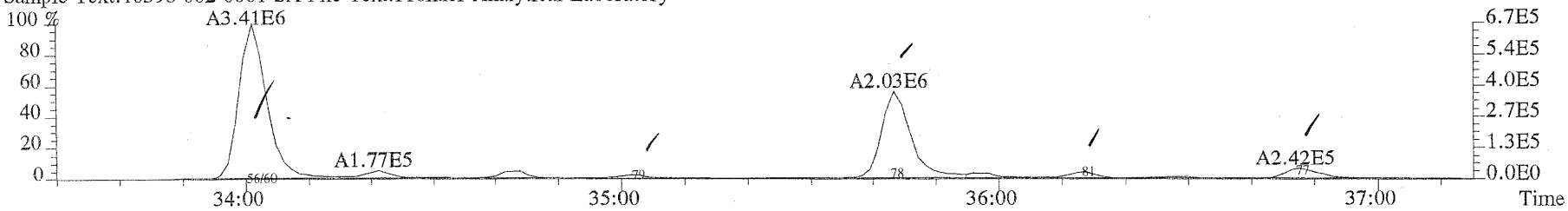
File:31JAN17Z #1-407 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



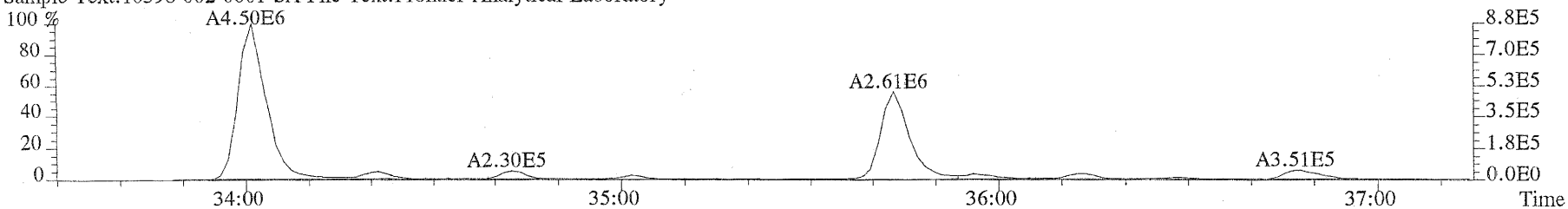
File:31JAN17Z #1-407 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



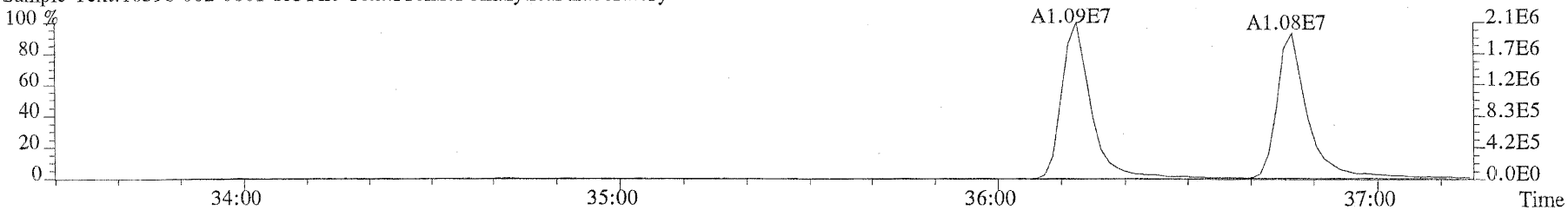
File:31JAN17Z #1-181 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



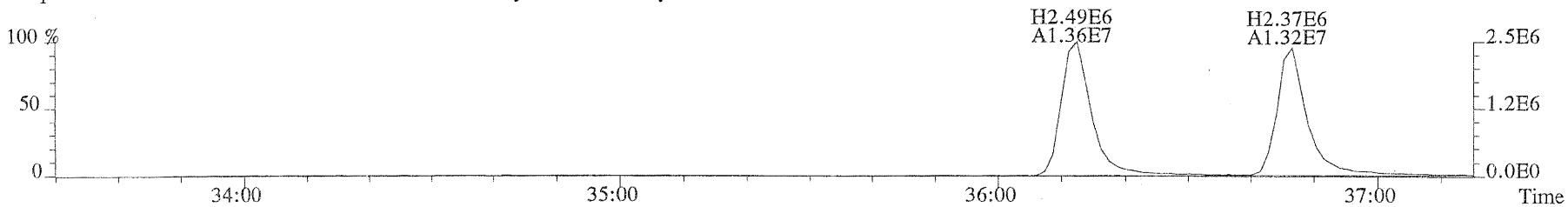
File:31JAN17Z #1-181 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



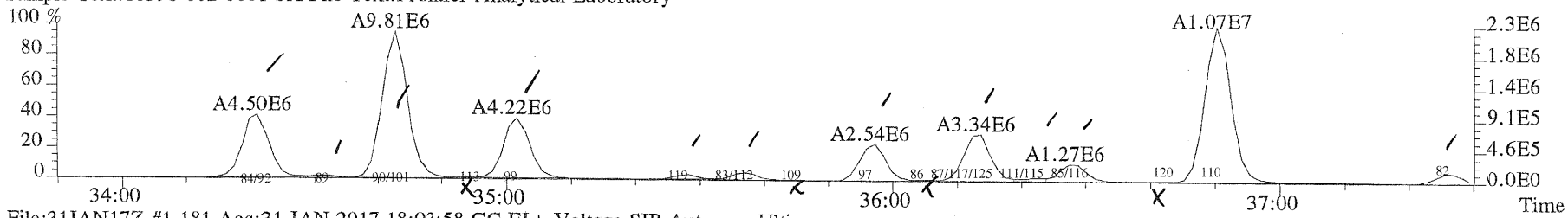
File:31JAN17Z #1-181 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



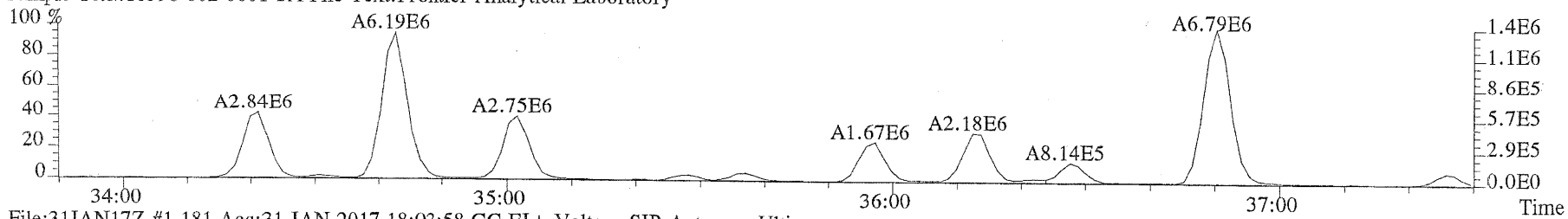
File:31JAN17Z #1-181 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



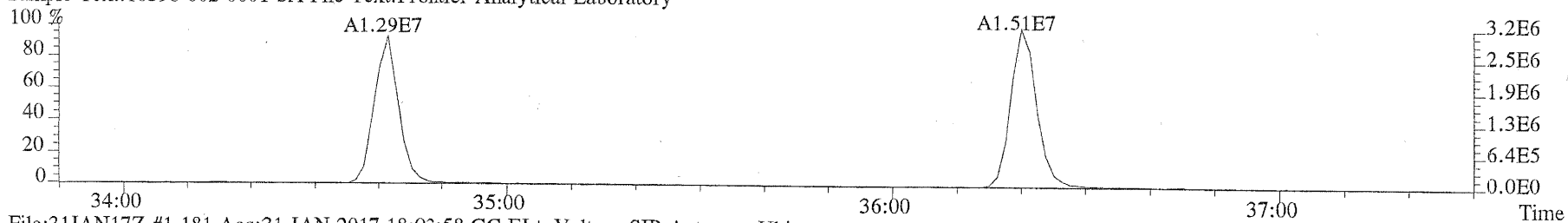
File:31JAN17Z #1-181 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



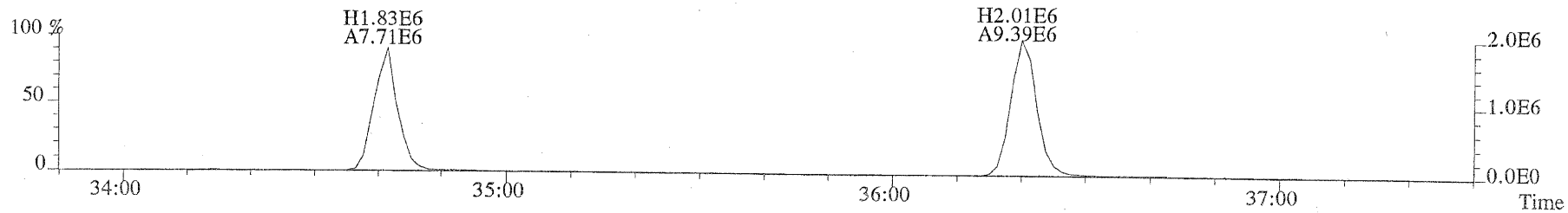
File:31JAN17Z #1-181 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



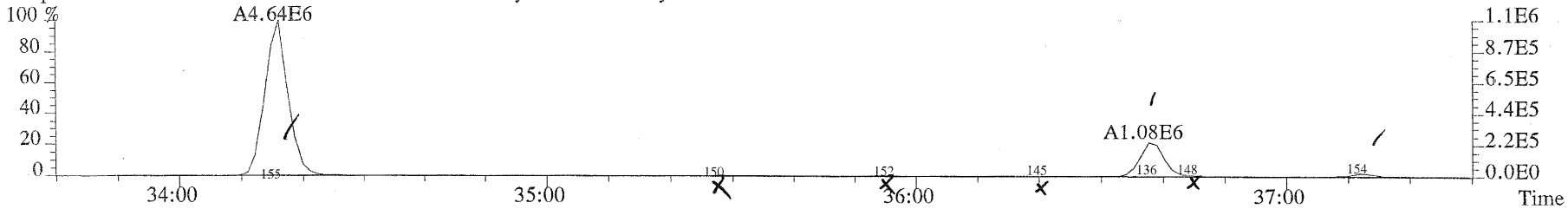
File:31JAN17Z #1-181 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-181 Acq:31-JAN-2017 18:03:58 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:10398-002-0001-SA File Text:Frontier Analytical Laboratory

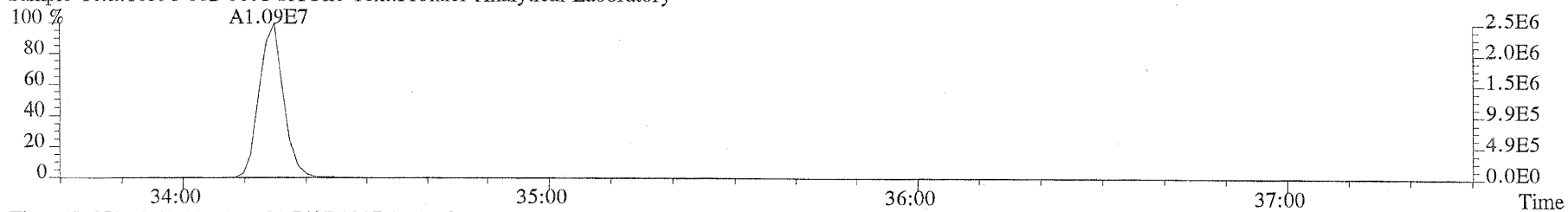


File:31JAN17Z #1-181 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory

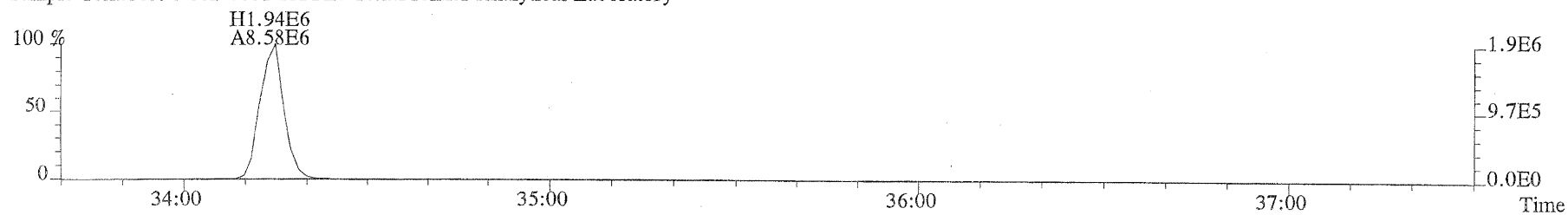


File:31JAN17Z #1-181 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory

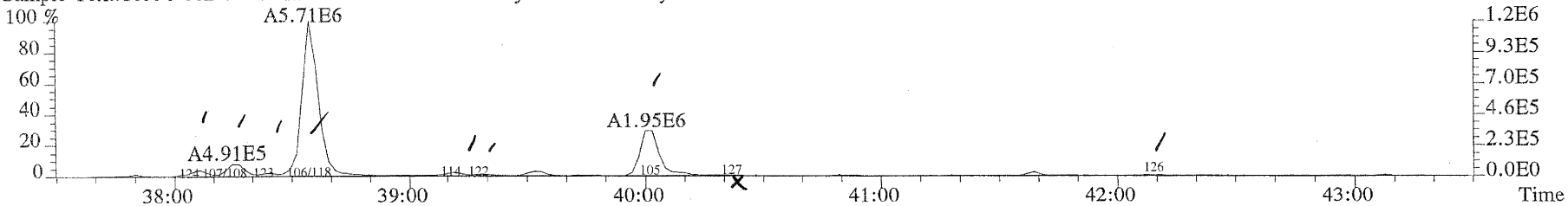
File:31JAN17Z #1-181 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



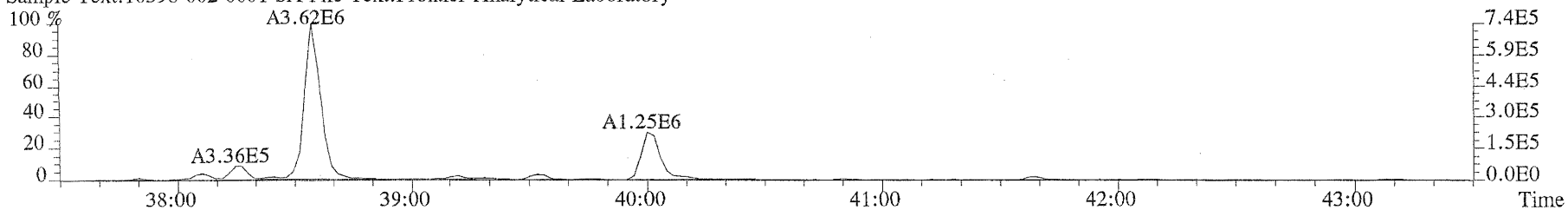
File:31JAN17Z #1-181 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



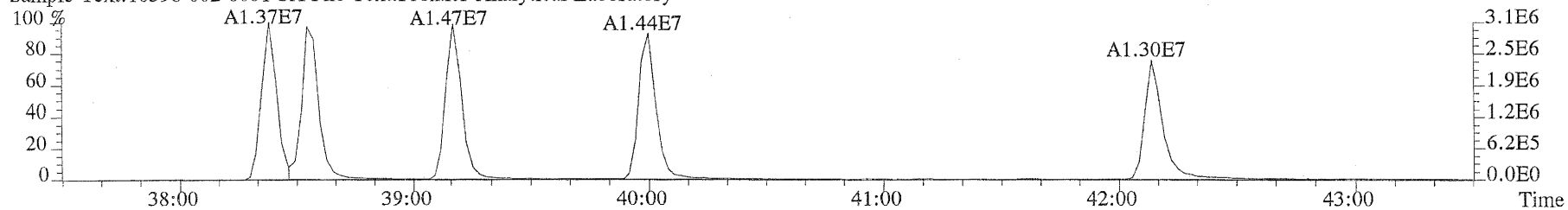
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



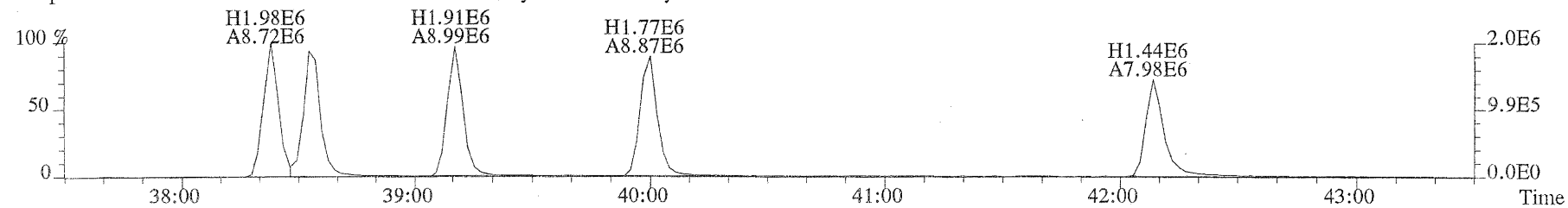
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



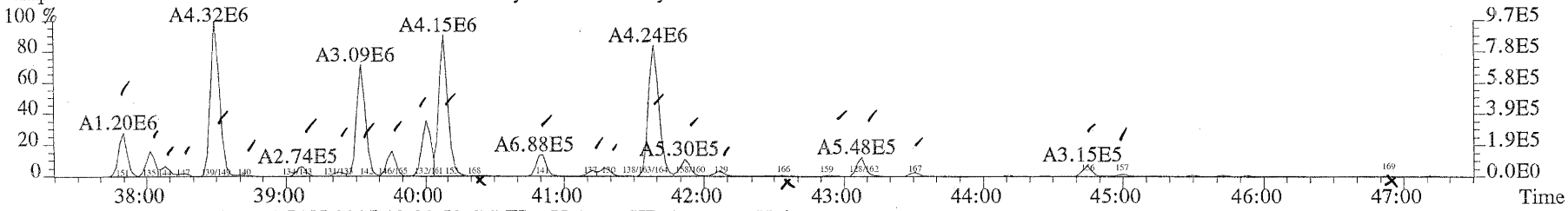
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



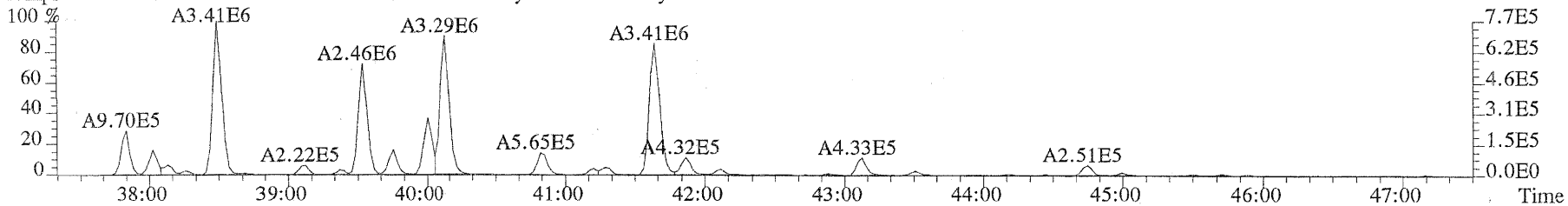
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



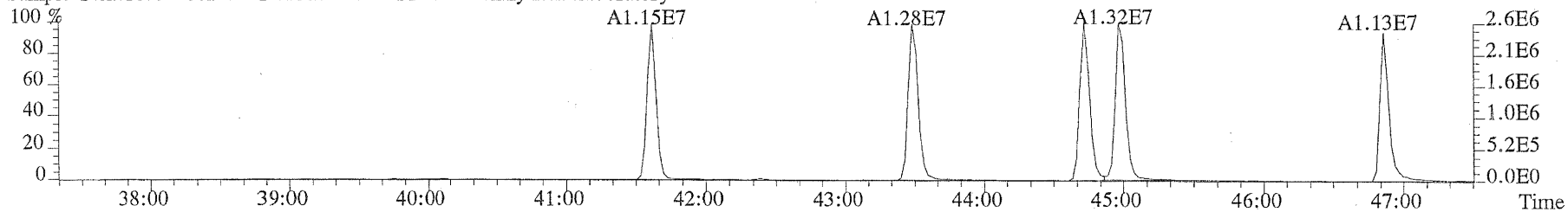
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



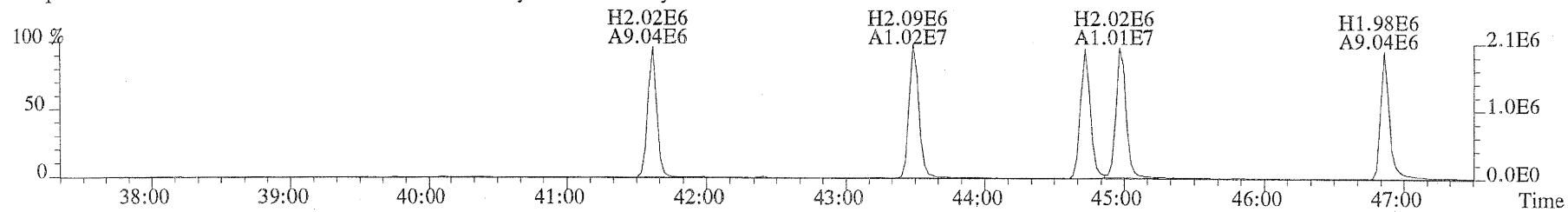
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



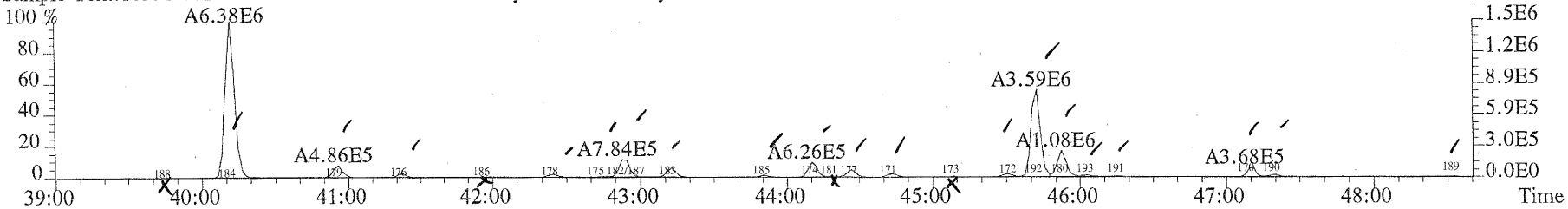
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



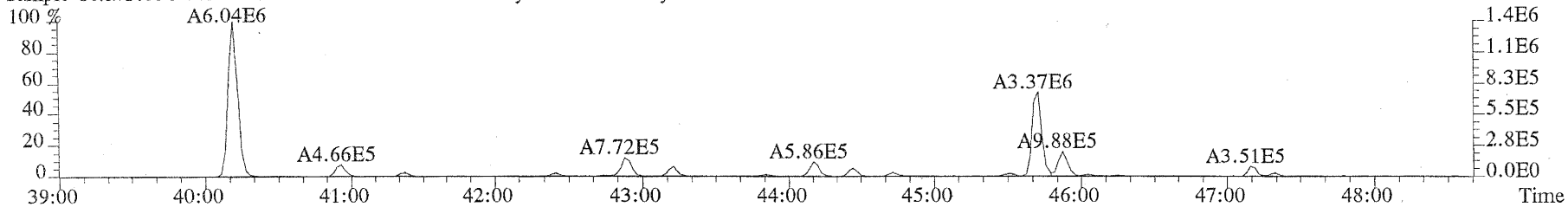
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



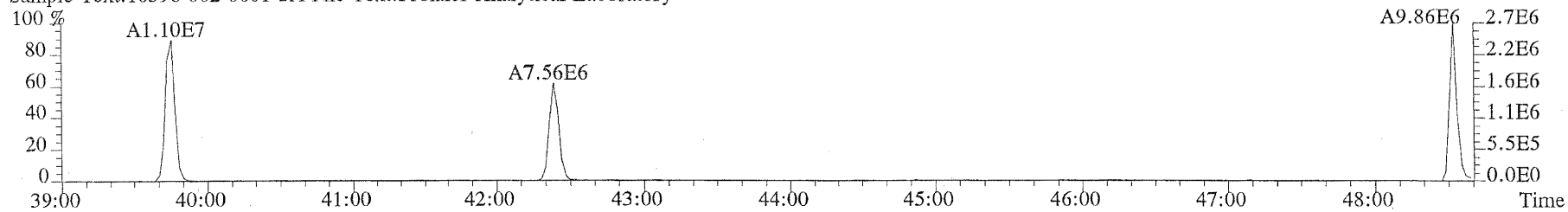
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



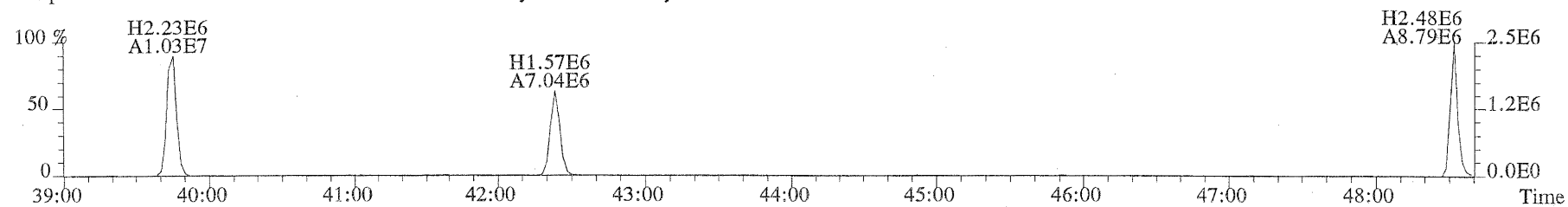
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



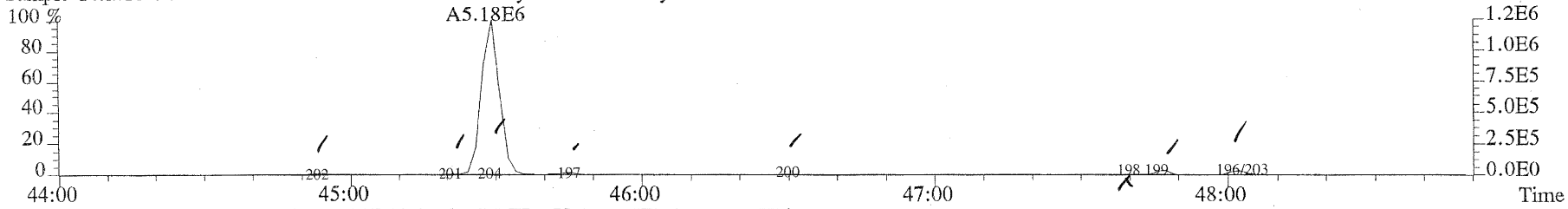
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



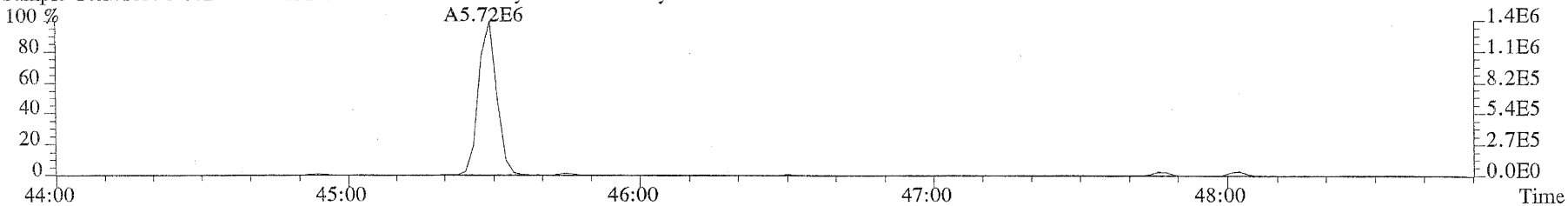
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



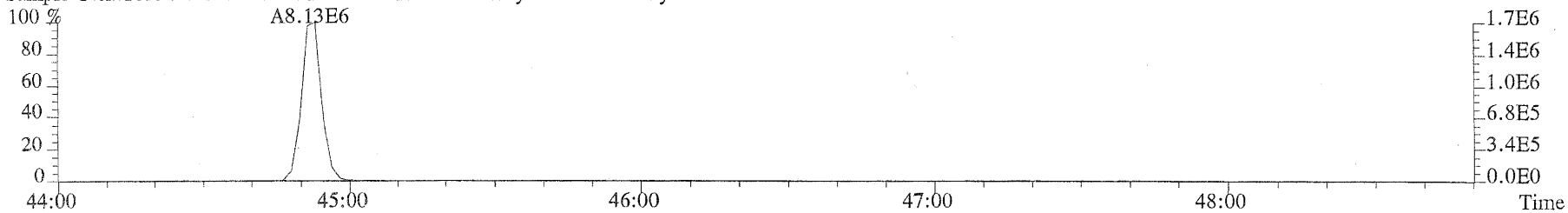
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



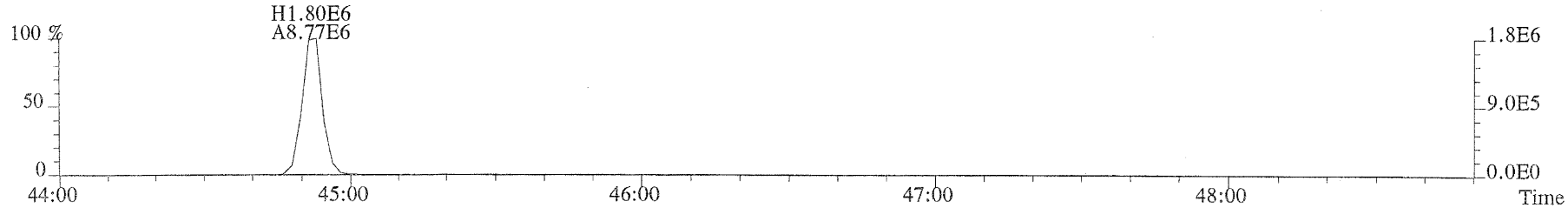
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



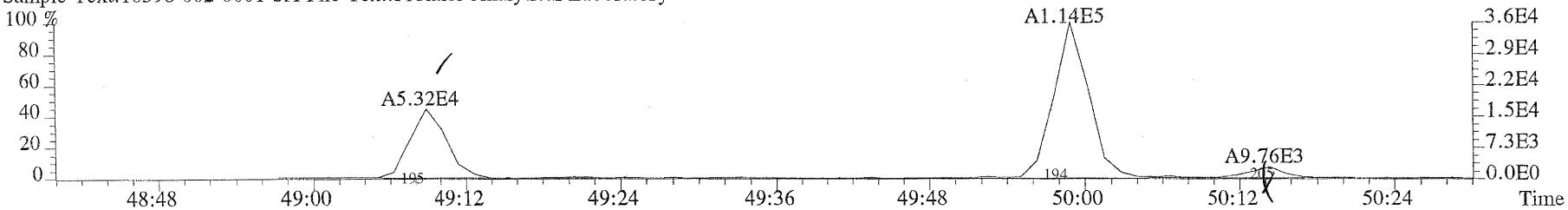
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



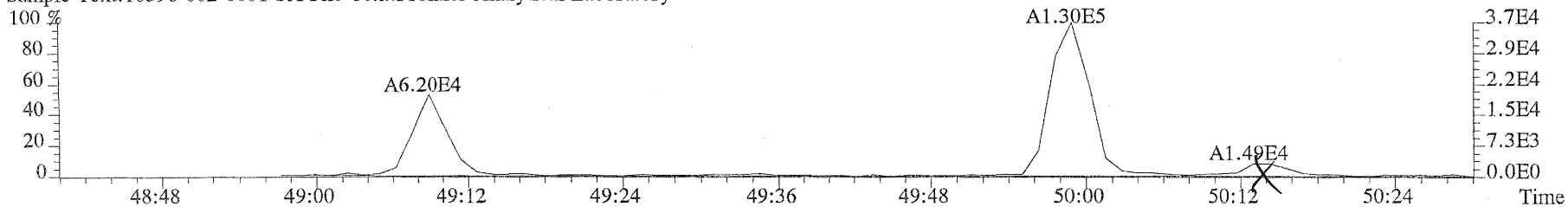
File:31JAN17Z #1-412 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



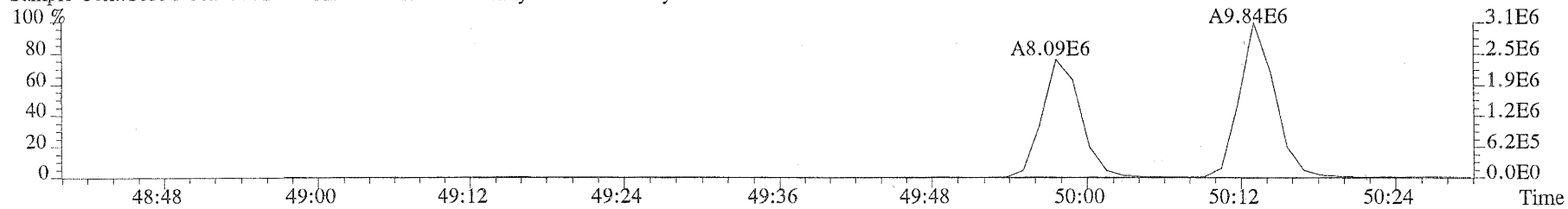
File:31JAN17Z #1-307 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



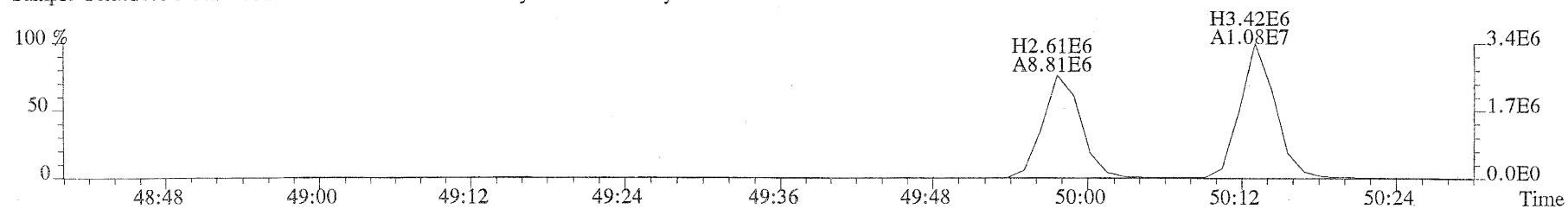
File:31JAN17Z #1-307 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



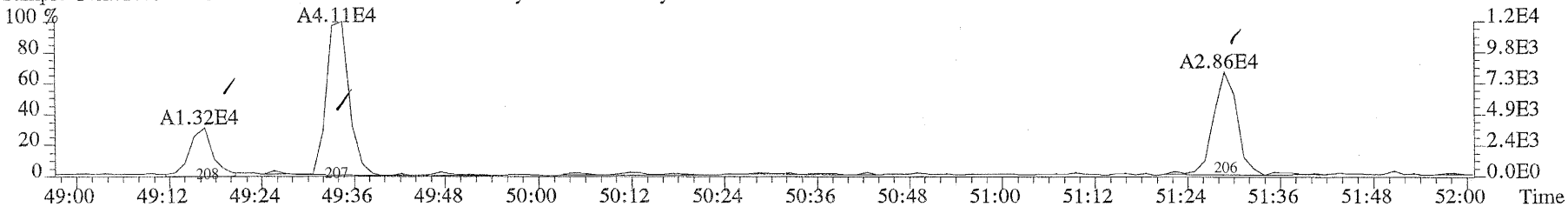
File:31JAN17Z #1-307 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



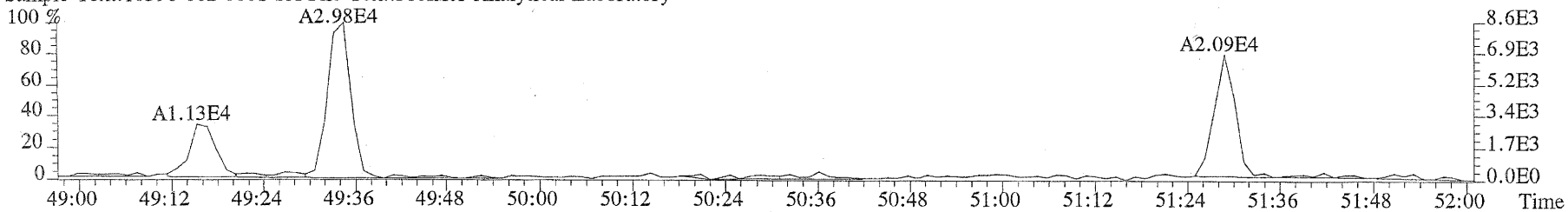
File:31JAN17Z #1-307 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



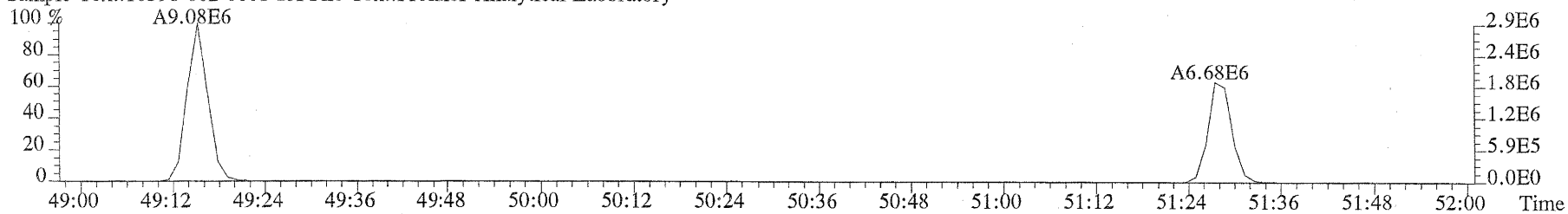
File:31JAN17Z #1-307 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



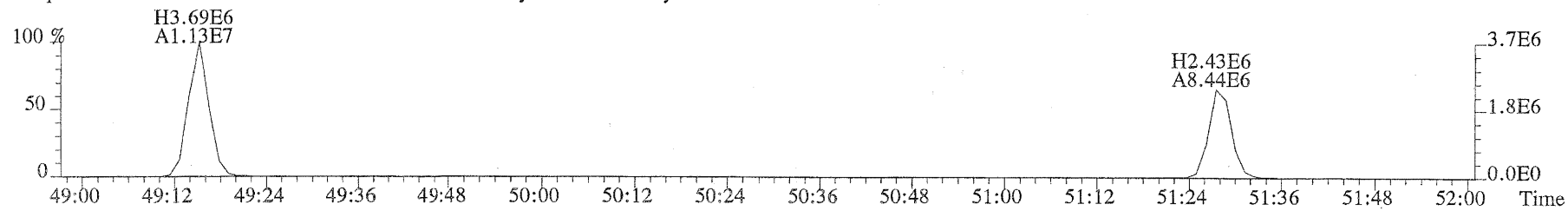
File:31JAN17Z #1-307 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



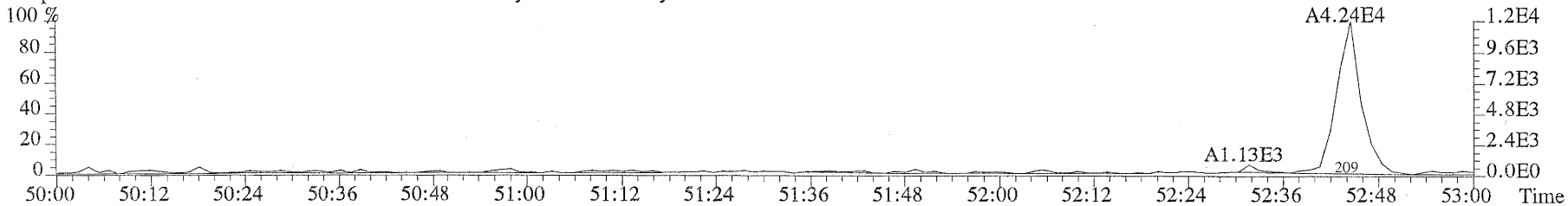
File:31JAN17Z #1-307 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



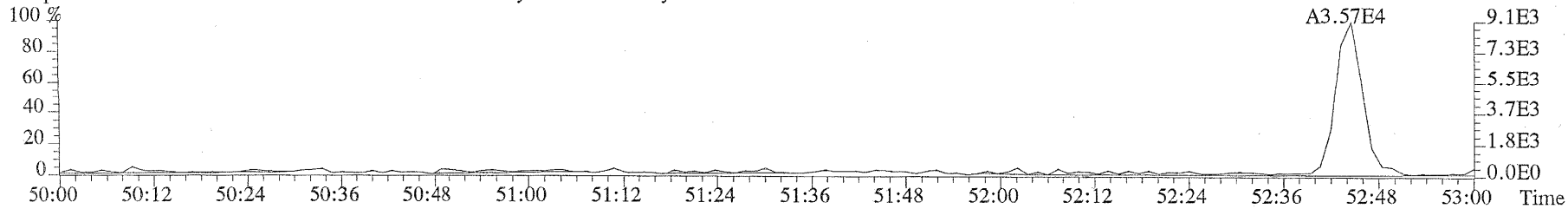
File:31JAN17Z #1-307 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



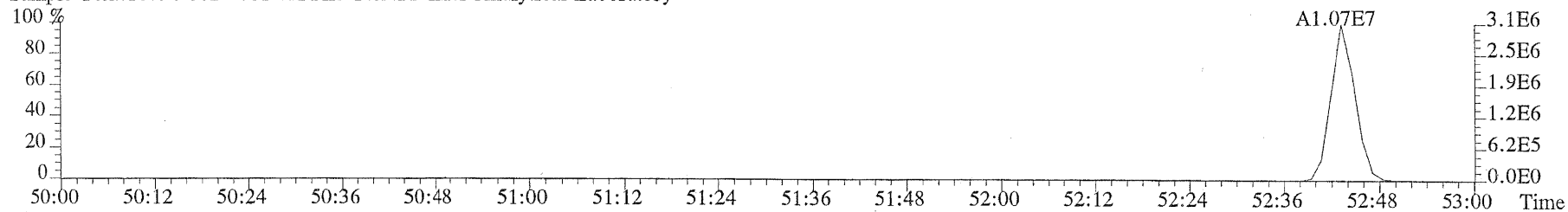
File:31JAN17Z #1-307 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



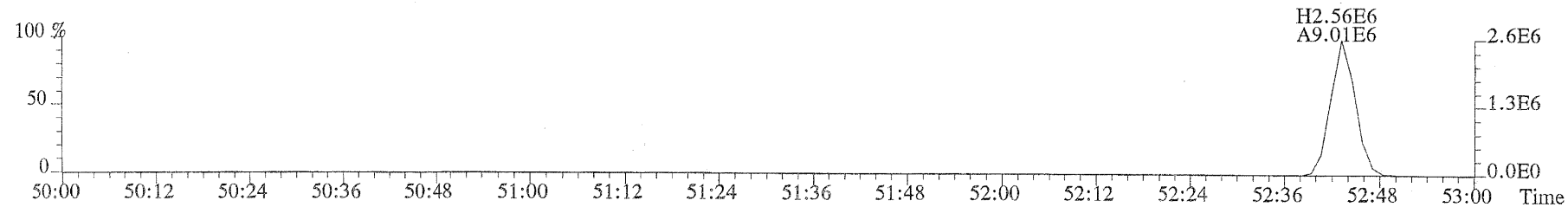
File:31JAN17Z #1-307 Acq:31-JAN-2017 18:03:58 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-002-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 18:03:58 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:10398-002-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 18:03:58 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:10398-002-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10398-003-0001-SA Filename: 31JAN17Z Sam:7 Acquired: 31-JAN-17 19:02:18 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR+AC-CC-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	S/N-1	S/N-2	Rec
PCB-1	1.40e+05	3.11 y	14:32	0.98	46.4		1000	780	4.97	31	13	
13C-PCB-1	3.10e+07	3.22 y	14:31	1.01	9170					5400	380	92
PCB-2	*	* n	NotFnd	0.89	*		1000	780	6.22	*	*	
PCB-3	3.34e+04	2.74 y	16:59	1.03	11.3	J	1000	780	6.13	6.4	4.0	
13C-PCB-3	2.88e+07	3.19 y	16:59	0.97	8950					4200	290	89
PCB-4	3.33e+06	1.43 y	18:13	1.05	1570		840	990	7.61	700	400	
PCB-10	6.47e+05	1.75 y	18:16	1.13	229		840	990	6.78	230	130	
13C-PCB-4	2.01e+07	1.57 y	18:12	0.63	9660					2100	1800	97
PCB-9	6.19e+05	1.46 y	19:56	1.19	208		840	990	6.44	120	100	
PCB-7	6.19e+05	1.46 y	19:56	1.27	195		840	990	6.04	120	100	
PCB-6	3.97e+06	1.51 y	20:33	1.23	1280		840	990	6.21	690	390	
PCB-8	9.44e+06	1.49 y	20:56	1.11	3390		840	990	6.88	1500	860	
PCB-5	*	* n	NotFnd	1.29	*		840	990	5.94	*	*	
PCB-14	6.09e+05	1.37 y	21:59	1.15	211		840	990	6.64	95	90	
PCB-11	1.32e+05	1.47 y	23:08	1.08	48.4		840	990	7.05	17	31	
PCB-13	2.33e+05	1.41 y	23:29	1.08	85.9		840	990	7.08	41	51	
PCB-12	2.33e+05	1.41 y	23:29	1.13	82.0		840	990	6.76	41	51	
PCB-15	1.66e+06	1.38 y	23:48	1.07	514		840	990	6.89	170	120	
13C-PCB-15	3.01e+07	1.61 y	23:47	0.94	9590					2200	2000	96
PCB-19	2.75e+06	1.01 y	22:07	1.03	1480		750	440	6.20	490	830	
PCB-30	*	* n	NotFnd	1.46	*		750	440	4.36	*	*	
PCB-18	2.86e+07	1.05 y	23:41	1.02	15600		750	440	6.27	5100	8200	
PCB-17	1.30e+07	1.04 y	23:50	1.10	6520		750	440	5.76	2200	3600	
PCB-27	1.68e+06	1.03 y	24:22	1.41	661		750	440	4.52	430	710	
PCB-24	1.19e+06	1.04 y	24:23	1.44	454		750	440	4.41	360	590	
PCB-16	7.69e+06	1.05 y	24:51	1.18	3590		750	440	5.37	1500	2500	
PCB-32	1.03e+07	1.05 y	24:53	1.29	4400		750	440	4.94	2000	3300	
13C-PCB-19	1.81e+07	1.08 y	22:06	0.57	9500					96	120	95
13C-PCB-9	3.33e+07	1.60 y	19:54	-	45.0					3100	2700	
PCB-34	3.05e+05	1.05 y	25:38	0.98	123		1200	1300	14.1	35	29	
PCB-23	7.64e+04	1.09 y	25:42	1.24	24.3		1200	1300	11.1	8.4	7.0	
PCB-29	2.05e+05	1.16 y	25:58	1.12	71.8		1200	1300	12.3	22	17	
PCB-26	6.79e+06	1.07 y	26:10	1.11	2410		1200	1300	12.4	730	620	
PCB-25	3.35e+06	1.06 y	26:19	1.36	968		1200	1300	10.1	290	250	
PCB-31	2.71e+07	1.06 y	26:39	1.13	9480		1200	1300	12.2	2800	2400	
PCB-28	2.48e+07	1.08 y	26:45	1.34	7280		1200	1300	10.3	2500	2100	
PCB-20/21/33	1.35e+07	1.05 y	27:20	1.18	4490		1200	1300	11.7	1200	1100	
PCB-22	7.57e+06	1.07 y	27:46	1.17	2560		1200	1300	11.8	680	600	
PCB-36	3.32e+06	1.07 y	28:21	1.05	1250		1200	1300	13.2	280	240	
PCB-39	*	* n	NotFnd	1.07	*		1200	1300	12.9	*	*	
PCB-38	1.56e+05	1.13 y	29:31	1.09	56.5		1200	1300	12.6	17	14	
PCB-35	1.43e+05	1.07 y	30:04	0.97	58.4		1200	1300	14.3	10	11	
PCB-37	2.11e+06	1.11 y	30:28	1.14	730		1200	1300	12.1	170	150	
13C-PCB-37	2.53e+07	1.10 y	30:26	1.14	10800					61	44	110

PCB-54	1.29e+05	0.69	y	25:39	0.99	58.2	720	1200	8.54	16	14	
PCB-50	1.25e+05	0.87	y	26:46	0.74	76.1	720	1200	11.5	22	13	
PCB-53	4.36e+06	0.76	y	27:23	0.74	2650	720	1200	11.5	620	480	
PCB-51	1.21e+06	0.80	y	27:42	0.75	722	720	1200	11.3	180	140	
PCB-45	3.75e+06	0.78	y	28:06	0.65	2580	720	1200	13.0	510	410	
PCB-46	1.45e+06	0.79	y	28:34	0.62	1050	720	1200	13.7	210	170	
PCB-52/69	2.77e+07	0.79	y	29:00	0.95	13000	720	1200	8.89	4200	3200	
PCB-73	*	*	n	NotFnd	0.85	*	720	1200	9.99	*	*	
PCB-43/49	1.69e+07	0.77	y	29:18	0.72	10600	720	1200	11.8	2400	1900	
PCB-47	4.78e+06	0.77	y	29:31	0.91	2340	720	1200	9.27	640	490	
PCB-48/75	4.89e+06	0.80	y	29:37	0.90	2420	720	1200	9.37	630	490	
PCB-65	*	*	n	NotFnd	0.95	*	720	1200	8.95	*	*	
PCB-62	*	*	n	NotFnd	0.84	*	720	1200	10.0	*	*	
PCB-44	1.44e+07	0.76	y	30:15	0.64	10000	720	1200	13.2	1900	1500	
PCB-42/59	6.25e+06	0.79	y	30:28	0.87	3220	720	1200	9.75	790	630	
PCB-41/64/71/72	1.63e+07	0.77	y	31:02	0.94	7770	720	1200	9.04	2000	1500	
PCB-68	2.09e+05	0.73	y	31:16	0.99	94.3	720	1200	8.52	24	19	
PCB-40	2.20e+06	0.75	y	31:28	0.56	1770	720	1200	15.2	280	240	
PCB-57	1.34e+05	0.82	y	31:50	0.94	63.8	720	1200	9.03	16	14	
PCB-67	5.01e+05	0.78	y	32:07	0.86	260	720	1200	9.84	73	55	
PCB-58	1.40e+05	0.81	y	32:11	0.99	63.5	720	1200	8.58	17	11	
PCB-63	7.05e+05	0.81	y	32:23	0.95	332	720	1200	8.92	87	66	
PCB-74	6.38e+06	0.78	y	32:39	0.97	2930	720	1200	8.70	850	660	
PCB-61/70	1.42e+07	0.79	y	32:50	1.03	6220	720	1200	8.26	1800	1500	
PCB-66/76	1.20e+07	0.78	y	33:03	0.99	5420	720	1200	8.59	1400	1100	
PCB-80	*	*	n	NotFnd	1.07	*	720	1200	7.92	*	*	
PCB-55	2.99e+05	0.87	y	33:33	0.97	139	720	1200	8.78	40	26	
13C-PCB-54	2.23e+07	0.79	y	25:38	1.12	9660				1900	5900	97
PCB-104	4.62e+06	1.55	y	30:06	1.06	2540	320	600	5.16	2100	750	
PCB-96	2.02e+05	1.51	y	31:17	0.99	119	320	600	5.53	89	33	
PCB-103	2.62e+05	1.58	y	31:48	0.82	185	320	600	6.64	120	42	
PCB-100	9.00e+04	1.40	y	32:09	0.82	64.0	320	600	6.68	38	12	
PCB-94	7.96e+04	1.38	y	32:35	0.68	67.8	320	600	7.99	29	14	
PCB-98/102	1.16e+07	1.61	y	33:06	0.87	7760	320	600	6.30	4800	1600	
PCB-95	1.16e+07	1.61	y	33:06	0.74	9130	320	600	7.41	4800	1600	
PCB-93	*	*	n	NotFnd	0.70	*	320	600	7.84	*	*	
PCB-88/91	1.66e+06	1.63	y	33:30	0.79	1220	320	600	6.90	860	300	
PCB-121	6.93e+06	1.60	y	33:33	0.93	4350	320	600	5.89	2900	960	
13C-PCB-104	1.72e+07	1.58	y	30:05	0.82	10100				5300	4300	100
13C-PCB-28	3.00e+07	1.06	y	26:44	1.38	10600				94	67	110
13C-PCB-52	2.06e+07	0.77	y	28:59	-	41.4				1700	5200	
PCB-56/60	6.36e+06	0.76	y	34:01	1.06	2710	1200	1200	14.0	400	560	
PCB-79	1.56e+05	0.75	y	35:02	1.08	65.2	1200	1200	13.7	12	15	
PCB-78	5.91e+06	0.80	y	35:43	1.03	2600	1200	1200	14.5	400	510	
PCB-81	2.83e+05	0.67	y	36:12	1.07	121	1200	1200	13.7	15	23	
13C-PCB-81	2.20e+07	0.79	y	36:12	1.02	11000				1600	3500	110
PCB-77	5.28e+05	0.74	y	36:49	0.99	240	1200	1200	15.3	26	35	
13C-PCB-77	2.22e+07	0.81	y	36:47	1.01	11200				1600	3400	110

PCB-155	9.13e+06	1.31	y	34:16	1.01	5020		540	480	5.91	2300	1900	
PCB-150	2.97e+04	1.14	y	35:29	0.91	18.1	J	540	480	6.54	6.7	7.1	
PCB-152	*	*	n	NotFnd	0.90	*		540	480	6.62	*	*	
PCB-145	*	*	n	NotFnd	0.89	*		540	480	6.71	*	*	
PCB-136	1.67e+06	1.29	y	36:39	0.93	997		540	480	6.43	400	330	
PCB-148	*	*	n	NotFnd	0.64	*		540	480	9.27	*	*	
PCB-154	1.57e+05	1.26	y	37:13	0.78	112		540	480	7.64	38	34	
13C-PCB-155	1.80e+07	1.29	y	34:15	1.02	9000					4000	3300	90
13C-PCB-111	2.29e+07	1.60	y	36:20	1.11	10500					2800	1900	100
13C-PCB-101	1.97e+07	1.60	y	34:41	-	43.5					2600	1800	
PCB-84/92	6.34e+06	1.58	y	34:21	0.79	3630		1000	880	13.2	890	650	
PCB-89	1.99e+05	1.39	y	34:31	0.73	125		1000	880	14.4	26	21	
PCB-90/101	1.45e+07	1.57	y	34:43	0.85	7790		1000	880	12.4	2100	1500	
PCB-113	*	*	n	NotFnd	1.01	*		1000	880	10.4	*	*	
PCB-99	6.21e+06	1.53	y	35:02	0.88	3190		1000	880	11.9	810	620	
PCB-119	4.86e+05	1.68	y	35:28	1.08	204		1000	880	9.69	71	52	
PCB-83/112	7.21e+05	1.62	y	35:37	0.84	389		1000	880	12.5	97	72	
PCB-109	*	*	n	NotFnd	1.01	*		1000	880	10.3	*	*	
PCB-97	3.68e+06	1.53	y	35:57	0.92	1810		1000	880	11.4	480	360	
PCB-86	*	*	n	NotFnd	0.82	*		1000	880	12.8	*	*	
PCB-87/117/125	4.72e+06	1.57	y	36:14	0.95	2260		1000	880	11.0	630	460	
PCB-111/115	2.16e+05	1.47	y	36:23	1.16	84.7		1000	880	9.03	38	28	
PCB-85/116	1.79e+06	1.54	y	36:29	0.89	914		1000	880	11.8	220	180	
PCB-120	*	*	n	NotFnd	1.12	*		1000	880	9.38	*	*	
PCB-110	1.51e+07	1.55	y	36:50	1.07	6430		1000	880	9.81	2100	1600	
PCB-82	9.86e+05	1.58	y	37:27	0.63	715		1000	880	16.7	130	93	
PCB-124	3.54e+05	1.47	y	38:06	1.04	154		740	890	8.70	55	30	
PCB-107/108	6.95e+05	1.61	y	38:16	0.99	318		740	890	9.15	130	65	
PCB-123	1.22e+05	1.66	y	38:25	1.22	46.5		740	890	7.25	28	12	
13C-PCB-123	2.15e+07	1.60	y	38:23	1.07	10800					280	600	110
PCB-118/106	8.35e+06	1.62	y	38:34	0.96	3790		740	890	9.81	1300	710	
13C-PCB-118	2.30e+07	1.64	y	38:34	1.18	10400					260	560	100
PCB-114	2.27e+05	1.74	y	39:12	1.07	96.2		740	890	8.18	34	15	
13C-PCB-114	2.21e+07	1.63	y	39:11	1.11	10700					280	610	110
PCB-122	1.19e+05	1.60	y	39:19	0.96	56.5		740	890	9.46	19	9.1	
PCB-105	2.47e+06	1.52	y	40:02	1.02	1130		740	890	9.13	420	210	
13C-PCB-105	2.15e+07	1.59	y	40:00	1.09	10600					270	570	110
PCB-127	*	*	n	NotFnd	0.89	*		740	890	10.2	*	*	
PCB-126	*	*	n	NotFnd	1.05	*		740	890	11.3	*	*	
13C-PCB-126	1.99e+07	1.62	y	42:08	0.90	11900					200	460	120
PCB-151	1.91e+06	1.29	y	37:50	0.81	1130		1000	850	13.4	230	220	
PCB-135	1.11e+06	1.28	y	38:02	0.80	663		1000	850	13.5	130	120	
PCB-144	3.83e+05	1.28	y	38:08	0.85	216		1000	850	12.8	54	51	
PCB-147	1.65e+05	1.41	y	38:16	0.95	84.2		1000	850	11.5	23	21	
PCB-139/149	6.85e+06	1.25	y	38:30	0.91	3600		1000	850	11.9	820	820	
PCB-140	7.56e+04	1.13	y	38:41	0.91	40.0		1000	850	12.0	8.8	9.3	
PCB-134/143	4.58e+05	1.12	y	39:07	0.83	264		1000	850	13.1	49	52	
PCB-131/133	2.25e+05	1.18	y	39:22	0.85	127		1000	850	12.8	24	24	
PCB-142	6.56e+06	1.25	y	39:32	0.73	4320		1000	850	14.9	810	780	
PCB-146/165	1.16e+06	1.27	y	39:45	1.00	555		1000	850	10.9	130	130	
PCB-132/161	2.23e+06	1.22	y	40:00	0.97	1110		1000	850	11.2	270	270	
PCB-153	6.69e+06	1.24	y	40:08	0.90	3590		1000	850	12.1	740	750	
PCB-168	*	*	n	NotFnd	1.10	*		1000	850	9.94	*	*	
PCB-141	1.07e+06	1.23	y	40:51	0.84	610		1000	850	12.9	110	110	
PCB-137	2.43e+05	1.40	y	41:12	0.91	129		1000	850	12.0	32	31	

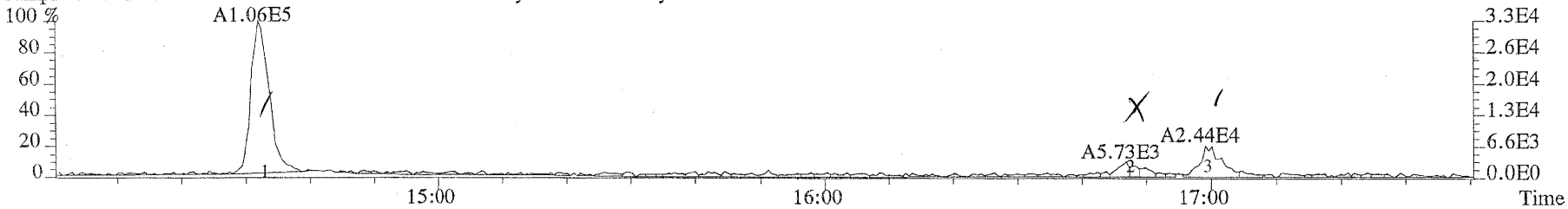
PCB-130	4.07e+05	1.32	y	41:17	0.64	304		1000	850	16.9	44	39	
PCB-138/163/164	6.47e+06	1.28	y	41:39	1.10	2840		1000	850	9.94	670	640	
PCB-158/160	8.35e+05	1.30	y	41:52	1.09	369		1000	850	9.99	89	91	
PCB-129	2.52e+05	1.14	y	42:07	0.69	175		1000	850	15.7	27	29	
PCB-166	3.29e+04	1.06	y	42:33	1.07	14.8	J	1000	850	10.2	2.6	4.0	
PCB-159	5.77e+04	1.42	y	42:55	1.06	26.1		1000	850	10.2	7.4	5.7	
PCB-128/162	8.32e+05	1.25	y	43:08	0.92	435		1000	850	11.8	92	86	
PCB-167	1.97e+05	1.21	y	43:31	0.93	98.5		1000	850	11.7	22	23	
13C-PCB-167	2.15e+07	1.25	y	43:29	1.09	10600					780	850	110
PCB-156	4.76e+05	1.30	y	44:45	0.97	235		1000	850	10.7	55	54	
13C-PCB-156	2.08e+07	1.28	y	44:43	1.01	11100					830	890	110
PCB-157	9.53e+04	1.33	y	45:00	0.97	45.3		1000	850	11.7	12	10	
13C-PCB-157	2.16e+07	1.27	y	44:58	1.04	11100					760	810	110
PCB-169	*	*	n	NotFnd	0.92	*		1000	850	11.9	*	*	
13C-PCB-169	1.92e+07	1.26	y	46:52	0.87	11800					780	850	120
PCB-188	*	*	n	NotFnd	1.07	*		690	470	5.96	*	*	
13C-PCB-188	1.98e+07	1.07	y	39:45	1.14	9340					4400	6500	93
PCB-184	1.43e+07	1.04	y	40:12	1.21	6370		690	470	5.17	2400	3400	
PCB-179	7.41e+05	1.04	y	40:56	1.17	341		690	470	5.35	120	180	
PCB-176	2.08e+05	0.95	y	41:22	1.12	100		690	470	5.58	40	51	
PCB-186	*	*	n	NotFnd	1.12	*		690	470	5.55	*	*	
PCB-178	2.08e+05	1.19	y	42:25	0.82	137		690	470	7.64	42	46	
PCB-175	4.50e+04	1.15	y	42:45	0.87	27.9		690	470	7.20	8.1	11	
PCB-182/187	1.25e+06	1.08	y	42:55	0.92	734		690	470	6.80	200	280	
PCB-183	5.82e+05	1.14	y	43:13	0.91	343		690	470	6.84	110	130	
PCB-185	1.17e+05	1.16	y	43:50	0.84	74.9		690	470	7.42	19	25	
PCB-174	8.69e+05	1.07	y	44:10	0.93	502		690	470	6.71	140	200	
PCB-181	*	*	n	NotFnd	0.72	*		690	470	8.65	*	*	
PCB-177	4.79e+05	1.04	y	44:27	0.76	337		690	470	8.17	83	120	
PCB-171	2.11e+05	1.11	y	44:43	0.80	141		690	470	7.75	35	52	
PCB-173	*	*	n	NotFnd	0.73	*		690	470	8.52	*	*	
PCB-172	2.59e+05	1.02	y	45:29	0.75	185		690	470	8.27	39	51	
PCB-192	8.41e+06	1.06	y	45:42	0.97	4660		690	470	6.42	1600	2100	
PCB-180	1.47e+06	1.09	y	45:52	0.96	820		690	470	6.48	260	340	
PCB-193	1.20e+05	1.17	y	46:02	1.06	60.7		690	470	5.88	17	30	
PCB-191	3.65e+04	1.16	y	46:15	1.02	19.3	J	690	470	6.14	9.0	8.3	
PCB-170	5.49e+05	1.18	y	47:11	0.70	424		690	470	8.97	97	130	
PCB-190	1.44e+05	0.98	y	47:20	0.95	81.5		690	470	6.57	24	41	
PCB-189	2.86e+04	0.92	y	48:32	1.04	15.8	J	690	470	5.84	5.0	7.7	
13C-PCB-189	1.74e+07	1.07	y	48:32	0.85	11000					4500	6900	110
PCB-202	5.36e+04	0.79	y	44:53	0.90	38.0		310	360	5.48	18	19	
PCB-201	3.52e+04	1.00	y	45:21	0.93	24.0		310	360	5.28	21	15	
PCB-204	1.33e+07	0.89	y	45:29	0.85	9990		310	360	5.82	5000	4900	
PCB-197	1.18e+05	0.81	y	45:46	0.92	82.2		310	360	5.38	39	44	
PCB-200	3.81e+04	0.87	y	46:30	0.88	27.5		310	360	5.59	17	12	
PCB-198	*	*	n	NotFnd	0.56	*		310	360	8.83	*	*	
PCB-199	1.65e+05	0.96	y	47:46	0.68	154		310	360	7.23	63	54	
PCB-196/203	1.88e+05	0.80	y	48:02	0.67	177		310	360	7.31	72	75	
13C-PCB-202	1.57e+07	0.91	y	44:53	0.92	9200					5400	5000	92
13C-PCB-178	1.37e+07	1.08	y	42:23	0.80	9270					3000	4500	93
13C-PCB-138	1.86e+07	1.27	y	41:37	-	45.3					770	800	

FAL ID: 10398-003-0001-SA Filename: 31JAN17Z Sam:7 Acquired: 31-JAN-17 19:02:18 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR+AC-CC-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

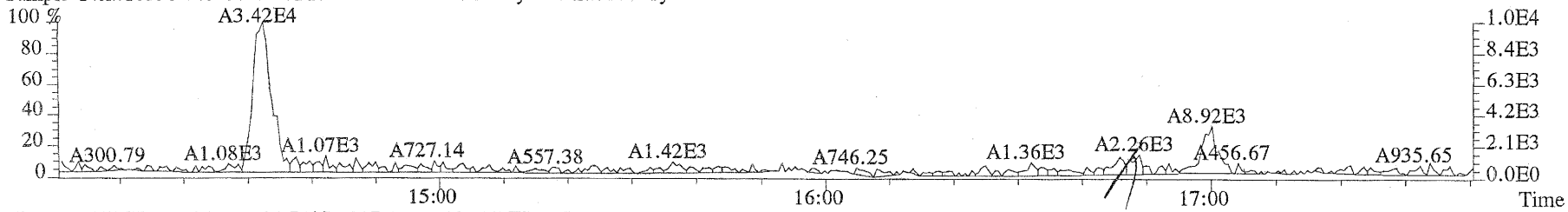
PCB-195	7.23e+04	0.97	y	49:09	0.78	48.1		780	920	9.18	13	13	
PCB-194	1.63e+05	0.94	y	49:58	0.83	102		870	920	9.08	27	25	
PCB-205	*	*	n	NotFnd	1.07	*		870	920	7.05	*	*	
13C-PCB-205	1.92e+07	0.90	y	50:13	1.19	10100					5200	5300	100
PCB-208	1.88e+04	1.32	y	49:16	0.91	10.9	J	650	640	5.68	6.0	4.2	
13C-PCB-208	1.91e+07	0.78	y	49:14	1.31	9220					5700	7000	92
PCB-207	8.07e+04	1.19	y	49:34	1.04	46.9		650	640	6.04	19	16	
PCB-206	3.61e+04	1.46	y	51:28	0.93	27.9		650	640	8.46	9.0	7.2	
13C-PCB-206	1.39e+07	0.79	y	51:28	0.94	9340					3800	4500	93
PCB-209	1.03e+05	1.17	y	52:44	0.99	56.7		780	720	8.64	16	15	
13C-PCB-209	1.82e+07	1.20	y	52:42	1.29	8930					6700	7300	89
13C-PCB-194	1.59e+07	0.92	y	49:57	-	50.3					4300	4300	

Analyst: [illegible] Date: 2/3/17

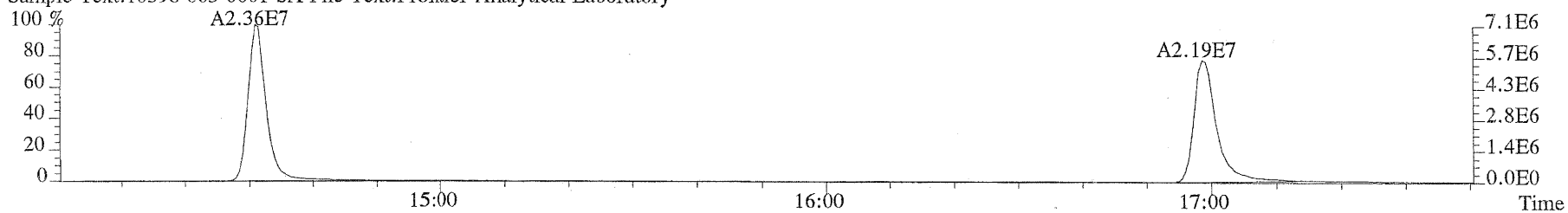
File:31JAN17Z #1-784 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:7 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



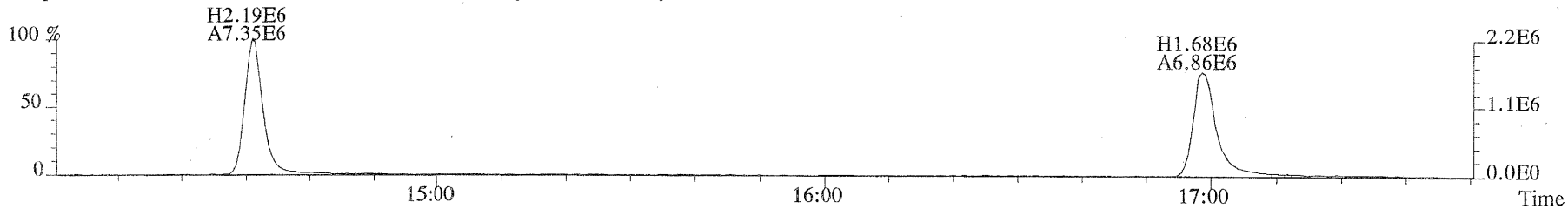
File:31JAN17Z #1-784 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:7 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



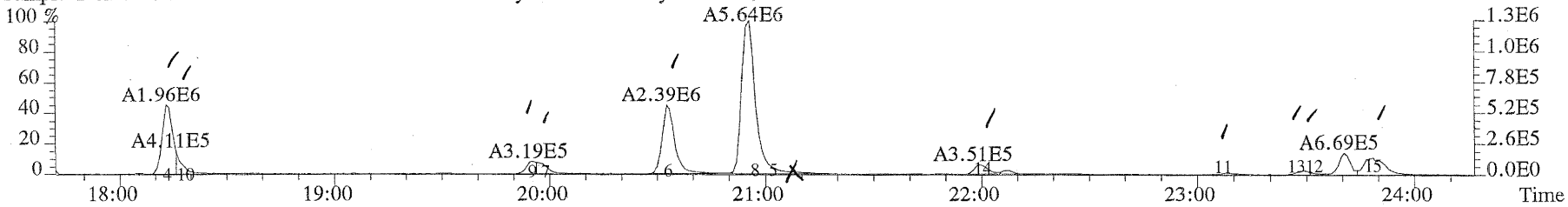
File:31JAN17Z #1-784 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:7 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



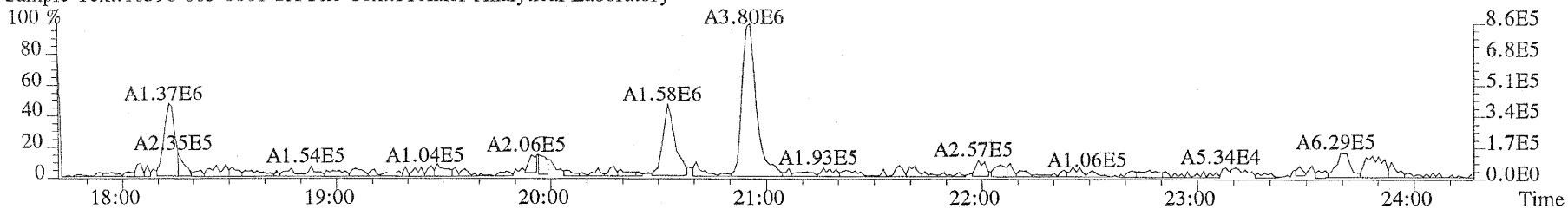
File:31JAN17Z #1-784 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:7 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



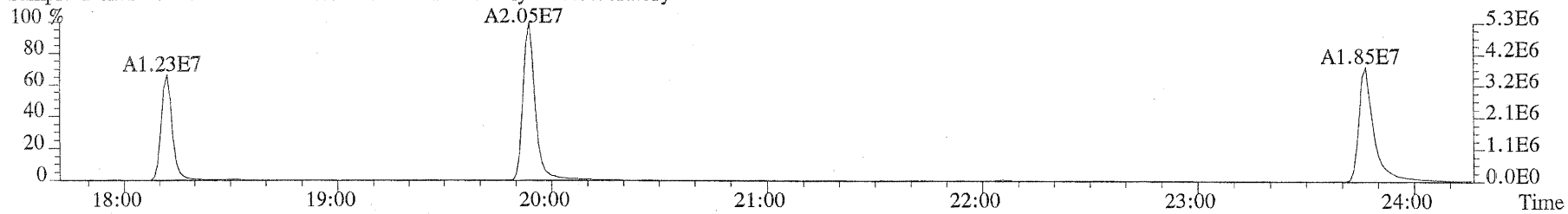
File:31JAN17Z #1-509 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



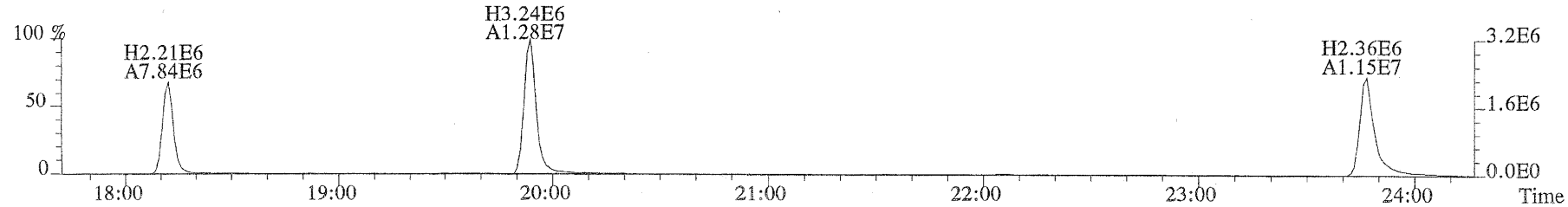
File:31JAN17Z #1-509 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



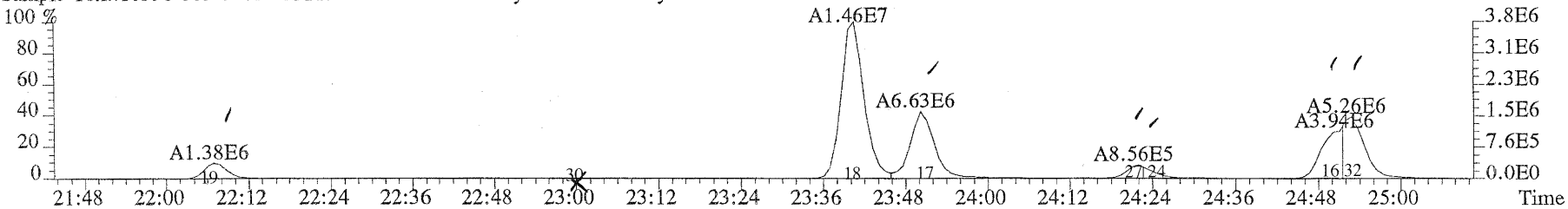
File:31JAN17Z #1-509 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



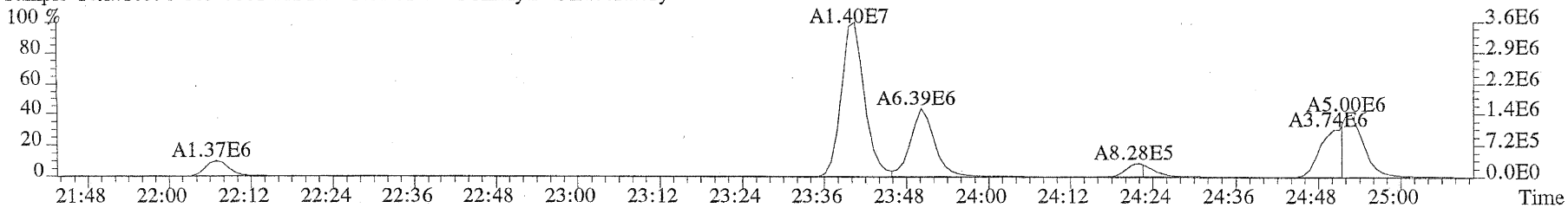
File:31JAN17Z #1-509 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



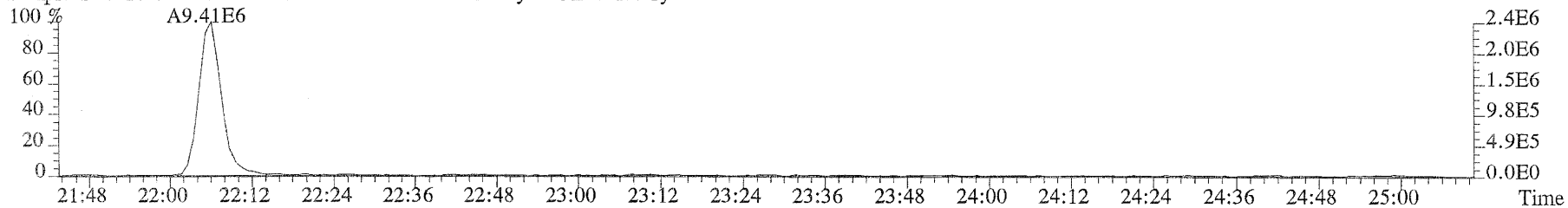
File:31JAN17Z #1-509 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



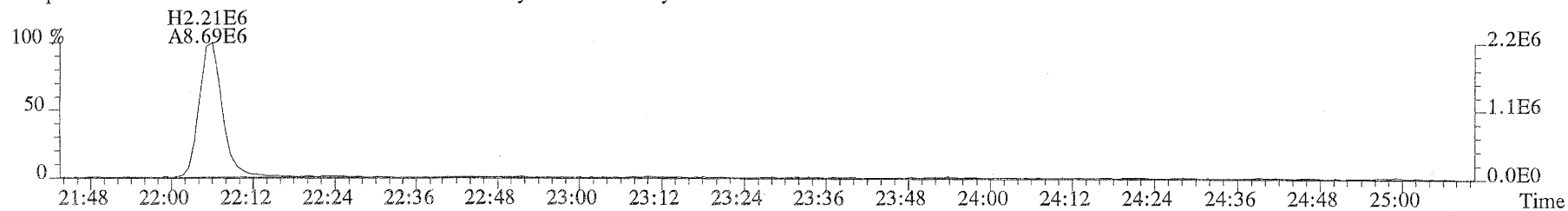
File:31JAN17Z #1-509 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



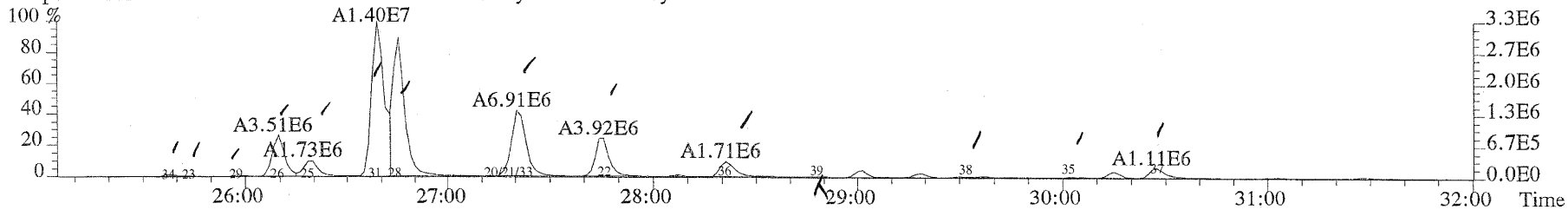
File:31JAN17Z #1-509 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



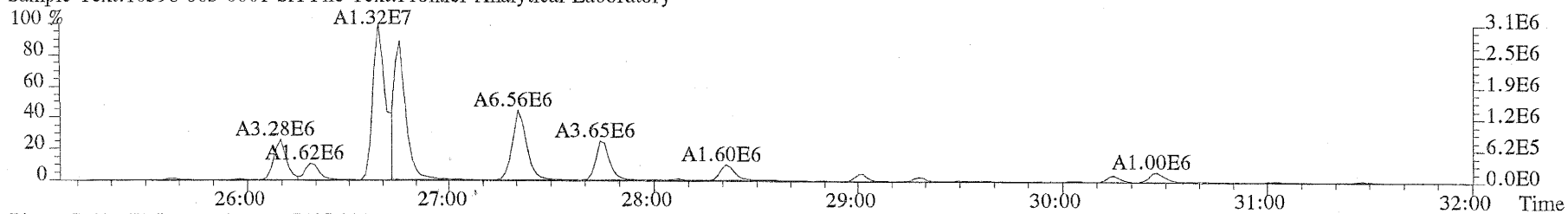
File:31JAN17Z #1-509 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



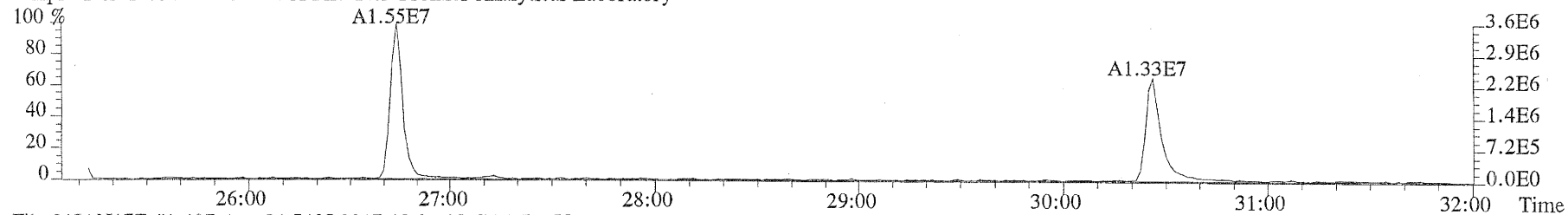
File:31JAN17Z #1-407 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



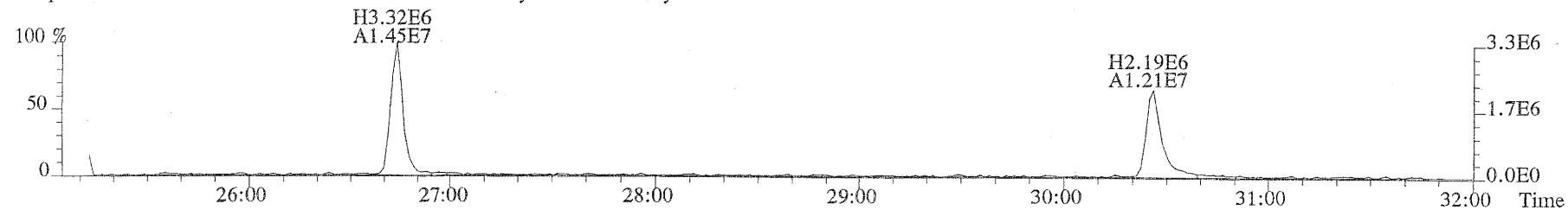
File:31JAN17Z #1-407 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



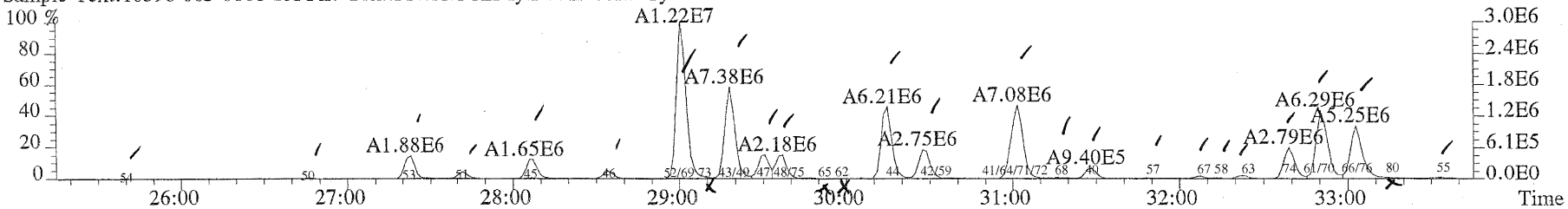
File:31JAN17Z #1-407 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



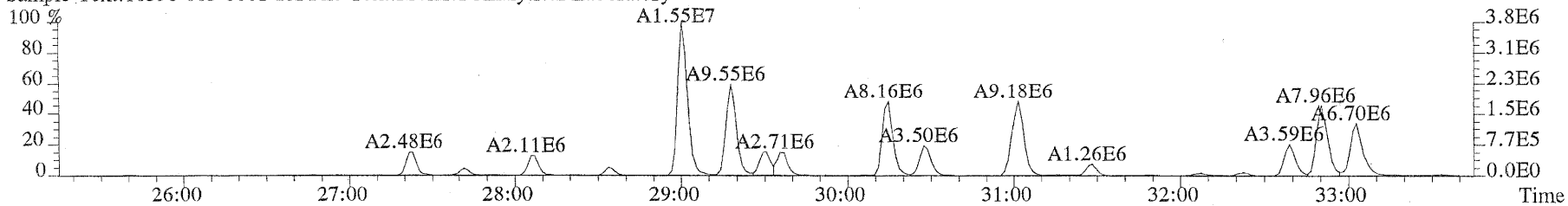
File:31JAN17Z #1-407 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



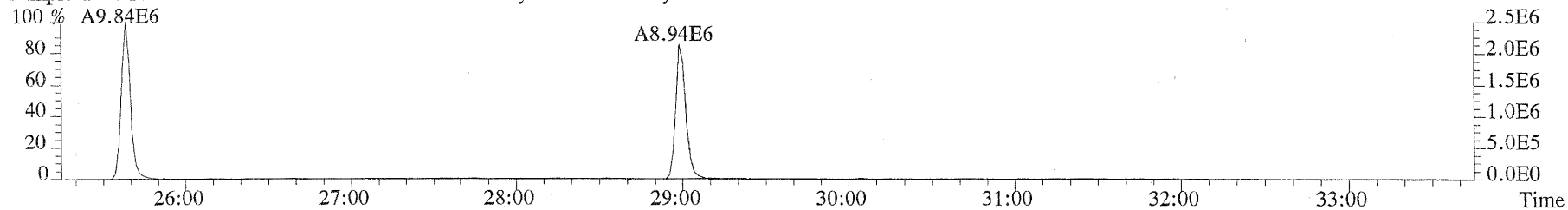
File:31JAN17Z #1-407 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



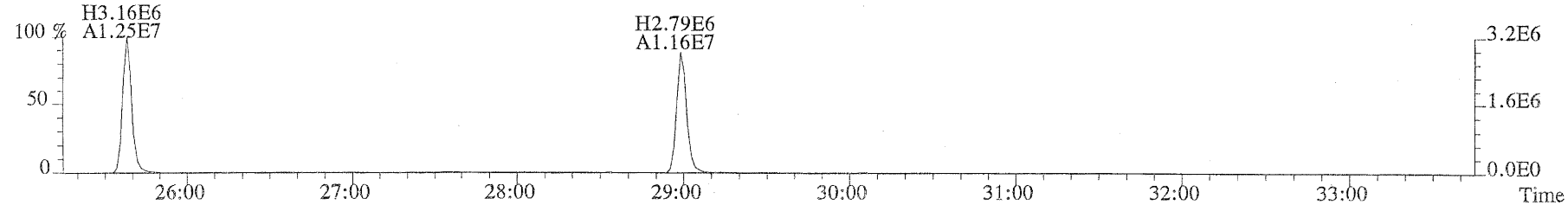
File:31JAN17Z #1-407 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



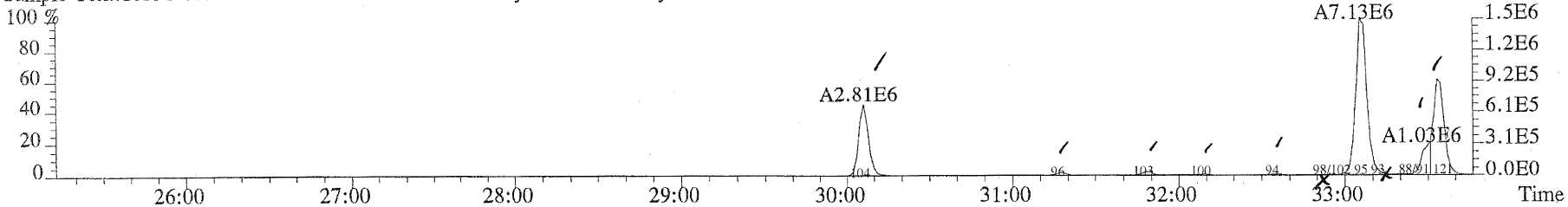
File:31JAN17Z #1-407 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



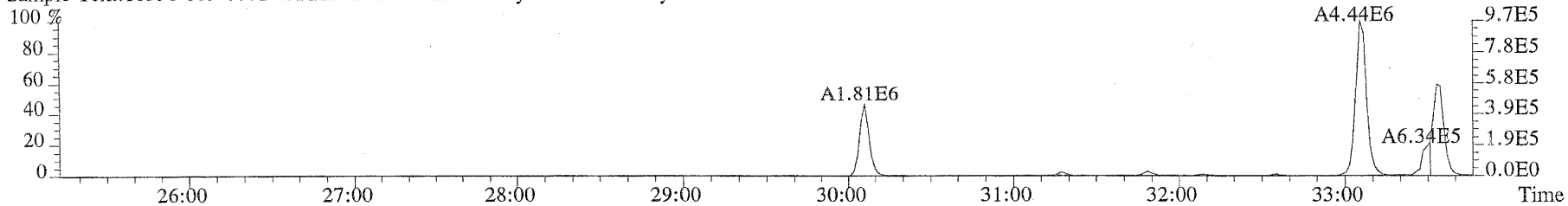
File:31JAN17Z #1-407 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



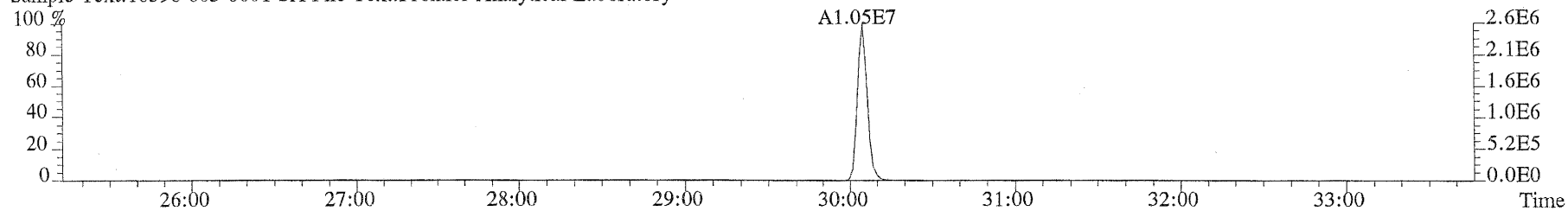
File:31JAN17Z #1-407 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



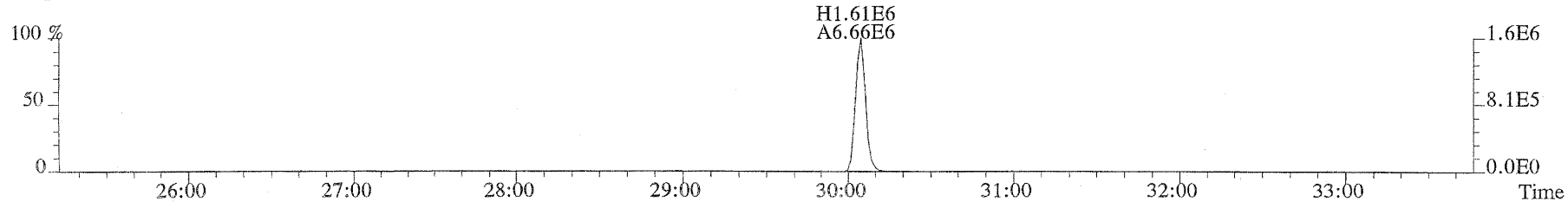
File:31JAN17Z #1-407 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



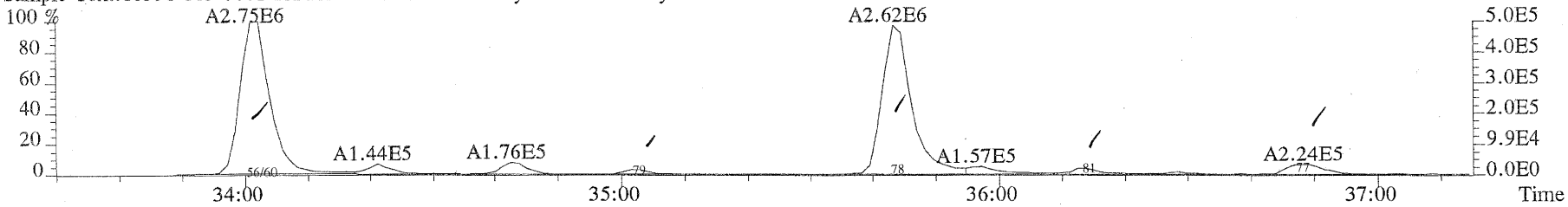
File:31JAN17Z #1-407 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



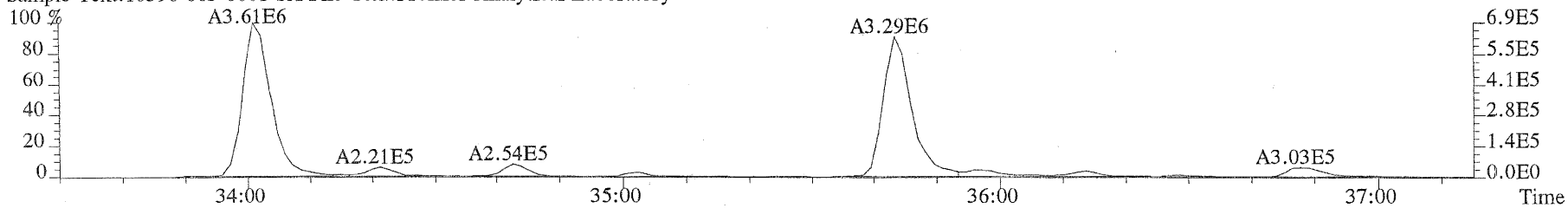
File:31JAN17Z #1-407 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



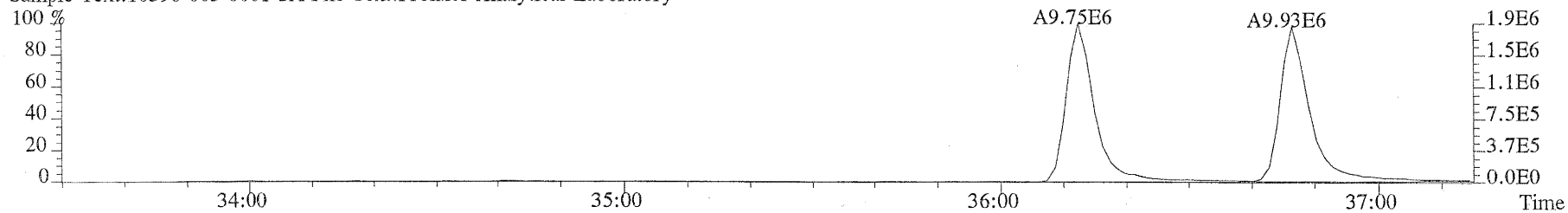
File:31JAN17Z #1-181 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



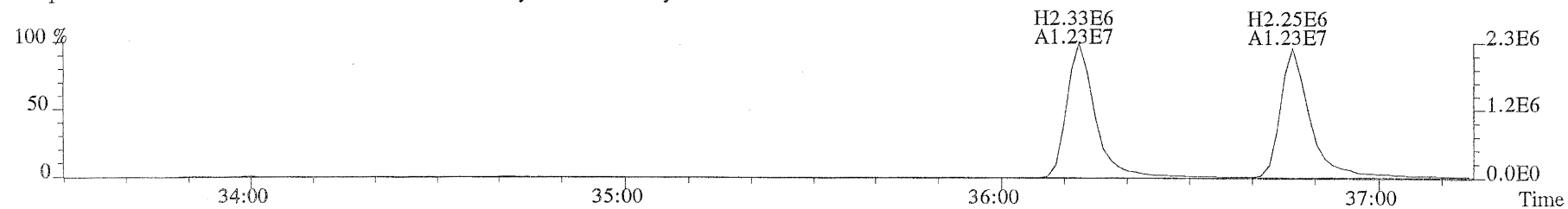
File:31JAN17Z #1-181 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



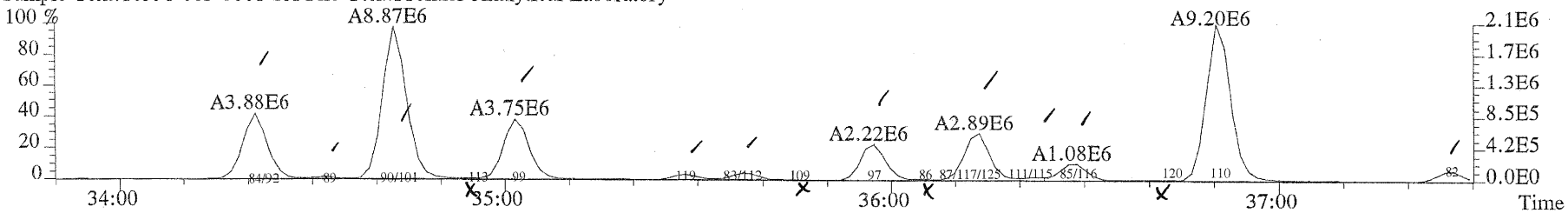
File:31JAN17Z #1-181 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



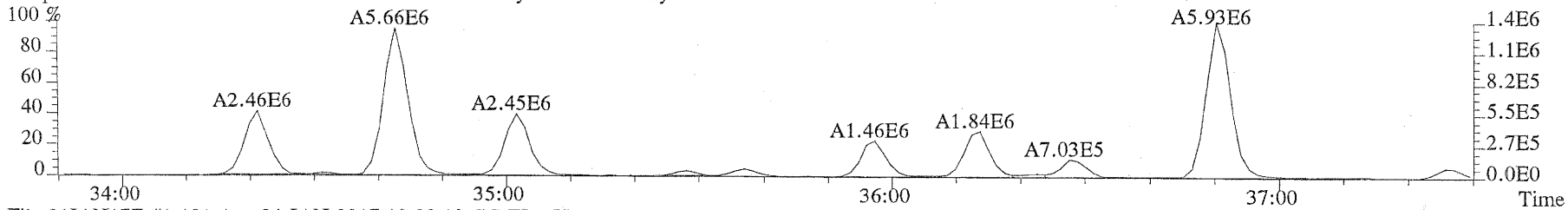
File:31JAN17Z #1-181 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



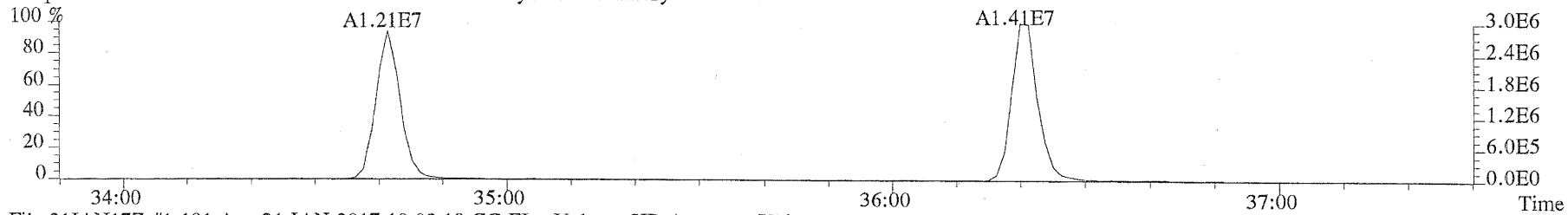
File:31JAN17Z #1-181 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



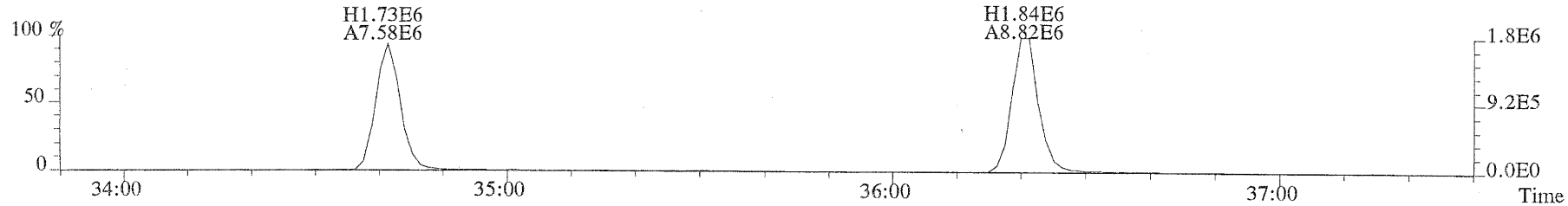
File:31JAN17Z #1-181 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



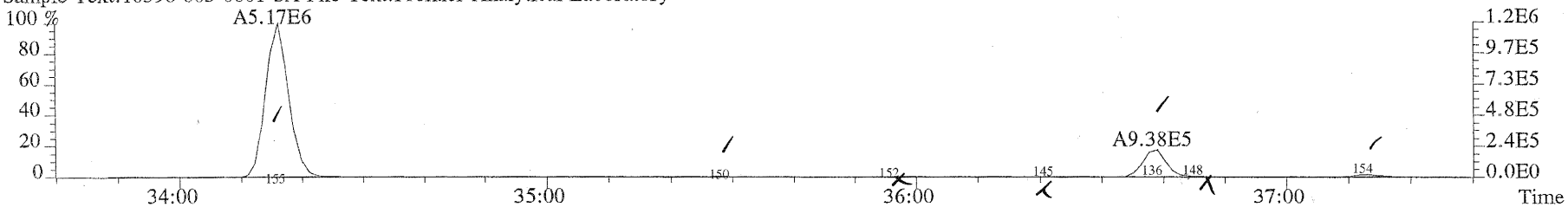
File:31JAN17Z #1-181 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



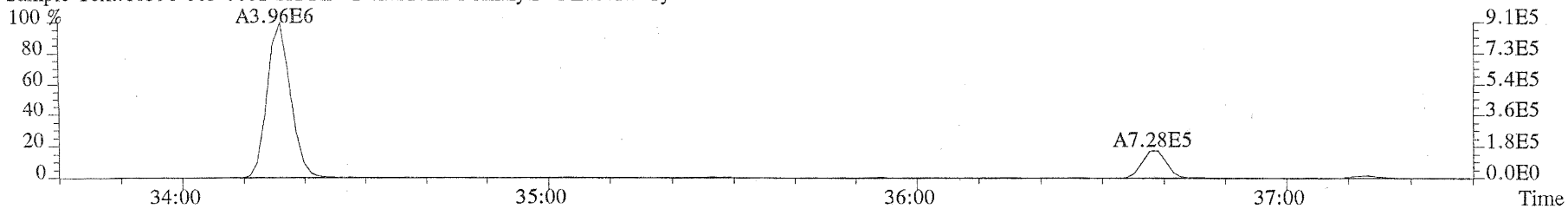
File:31JAN17Z #1-181 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



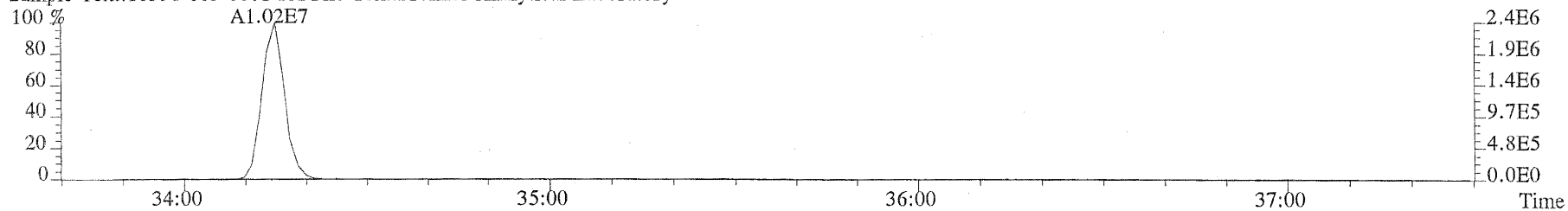
File:31JAN17Z #1-181 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



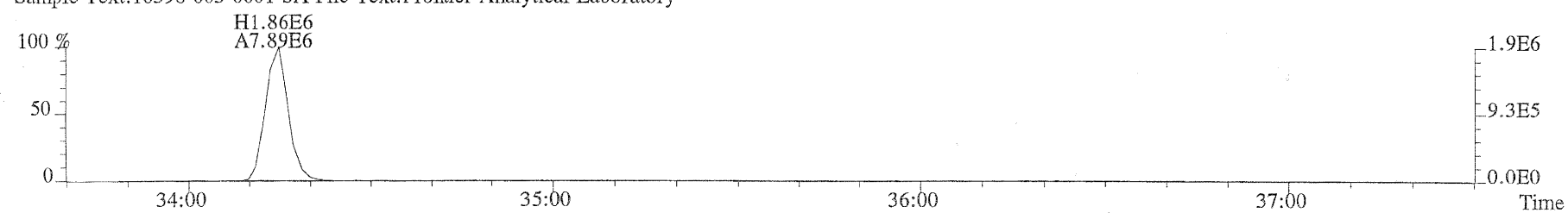
File:31JAN17Z #1-181 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



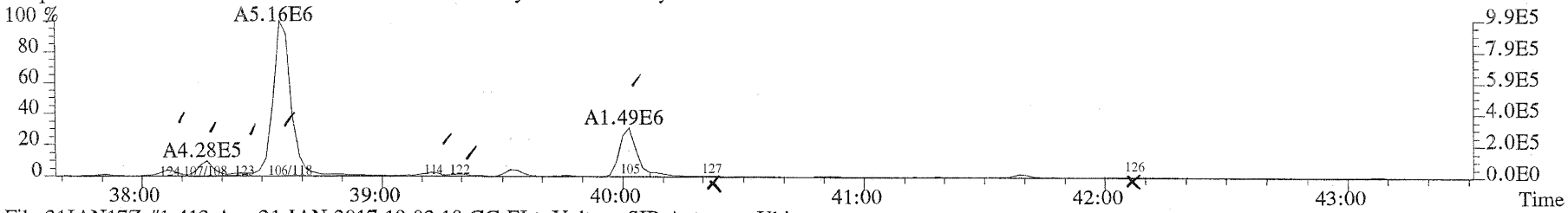
File:31JAN17Z #1-181 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



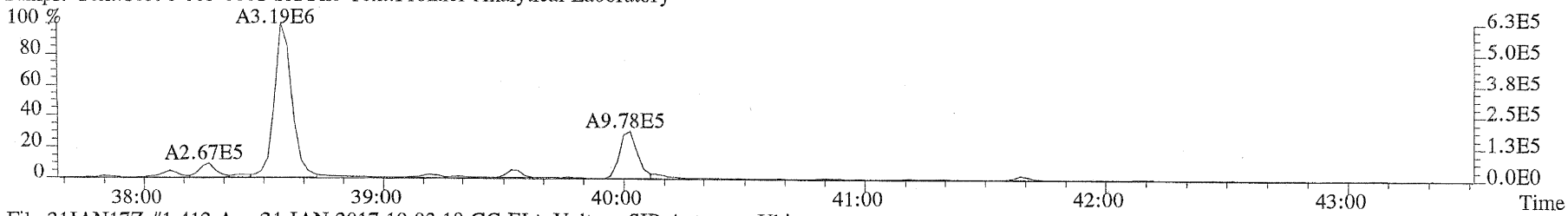
File:31JAN17Z #1-181 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



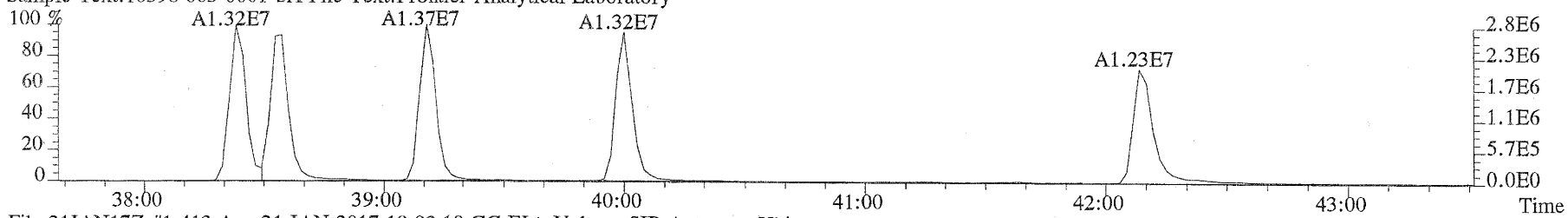
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:7 F:5 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



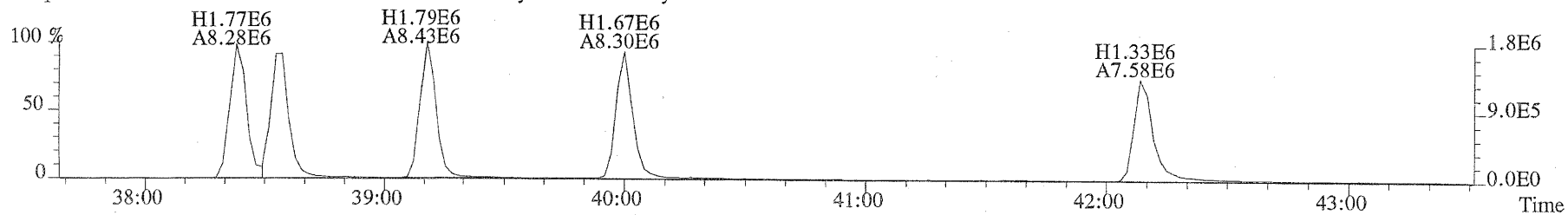
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



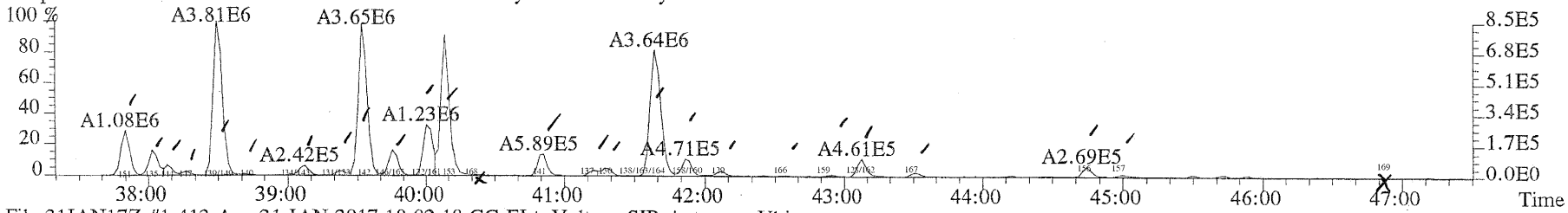
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



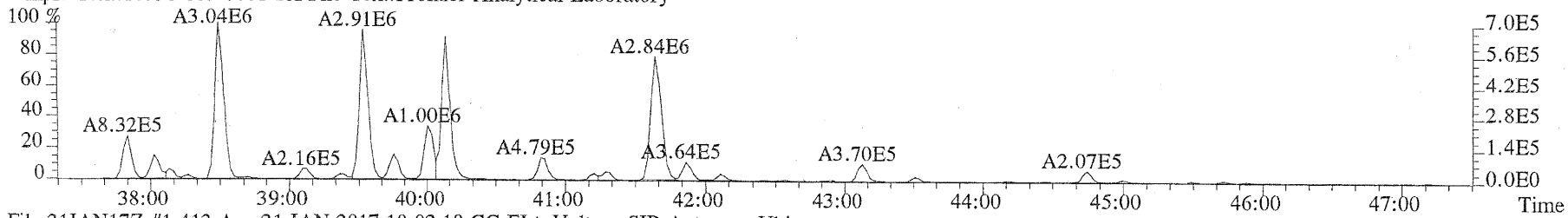
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:7 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



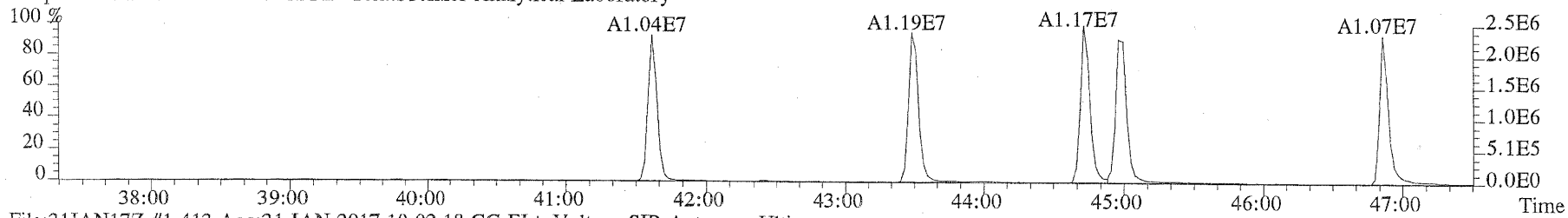
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



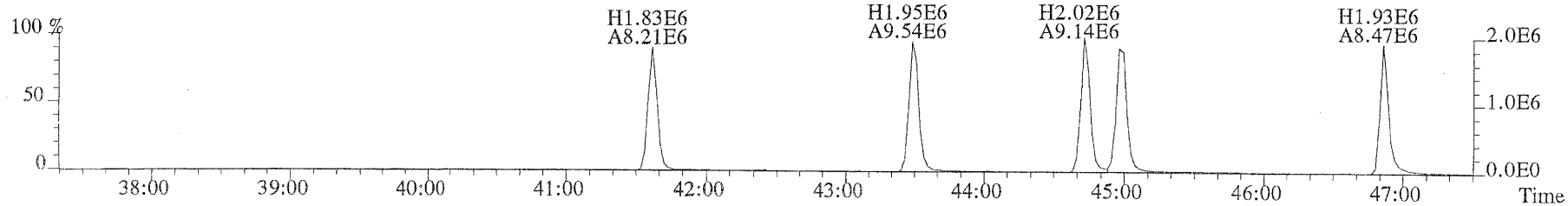
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



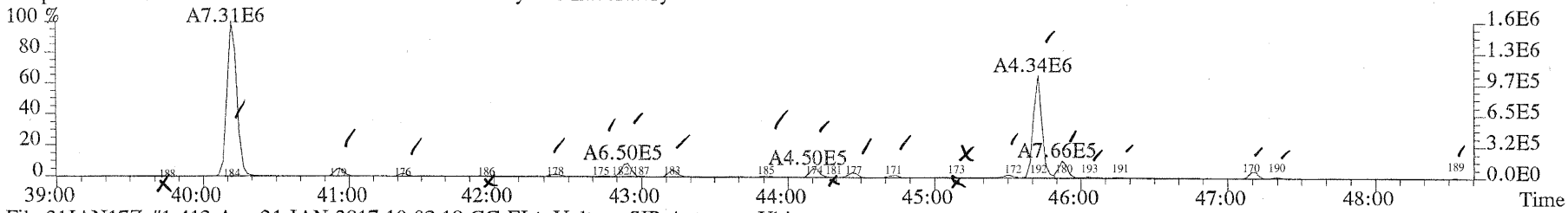
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



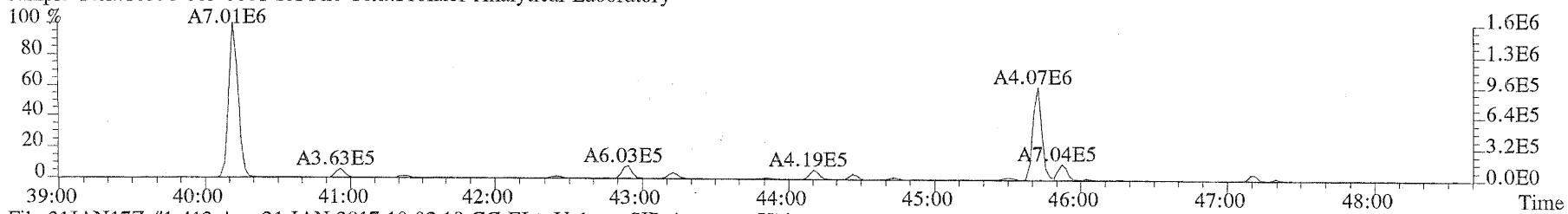
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



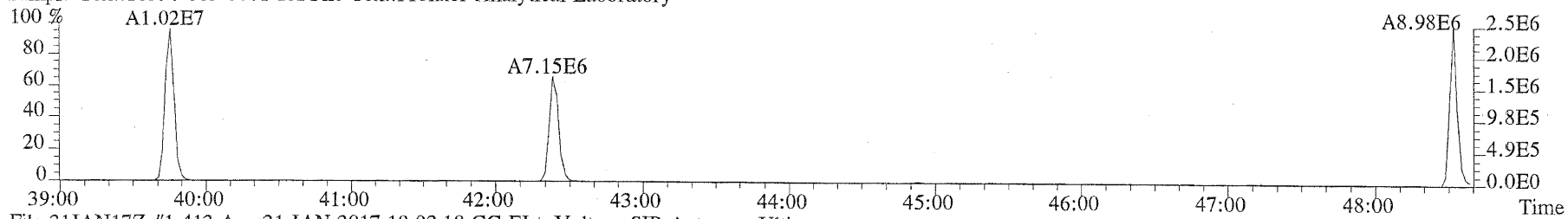
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



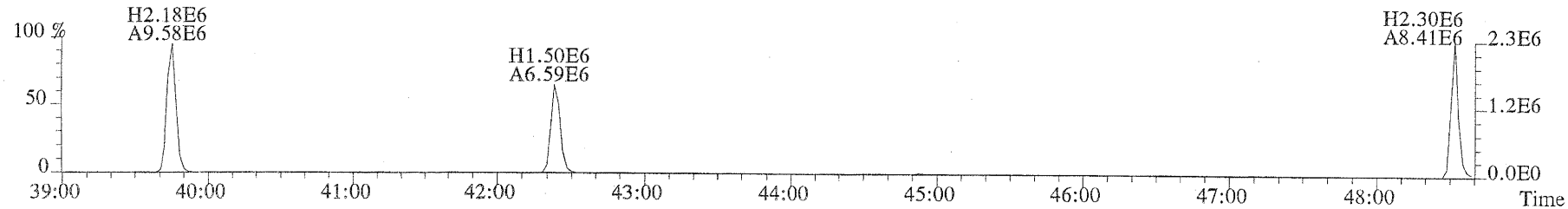
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



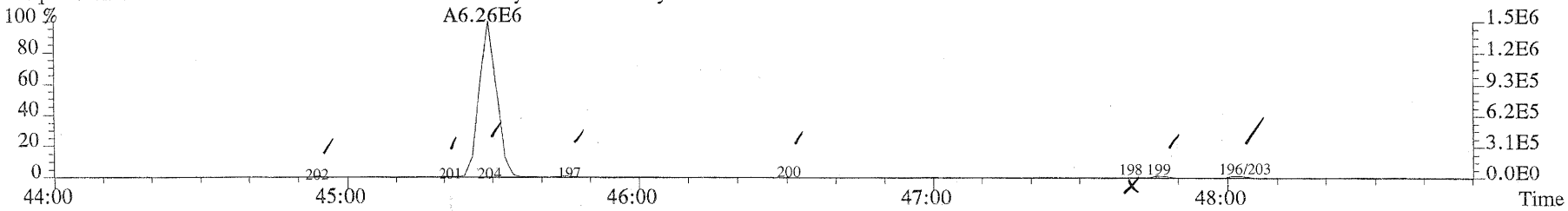
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



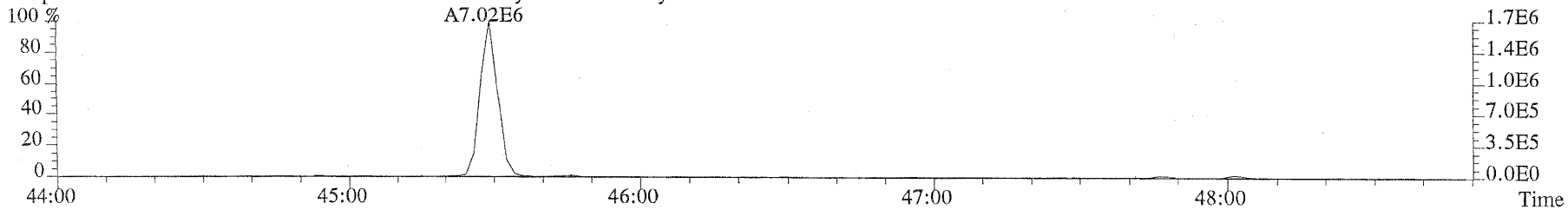
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



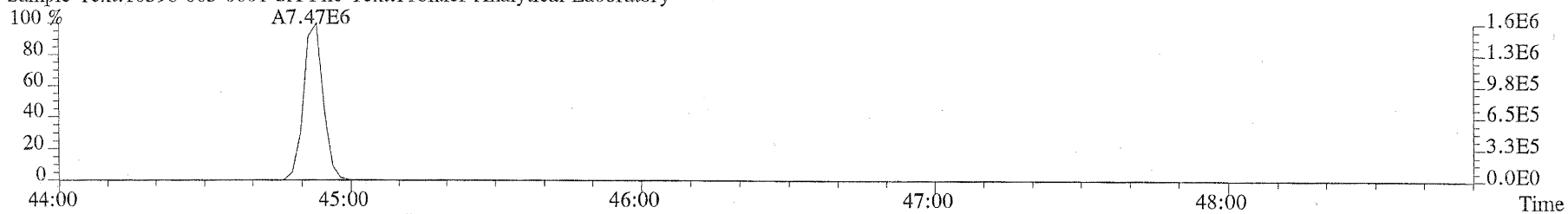
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



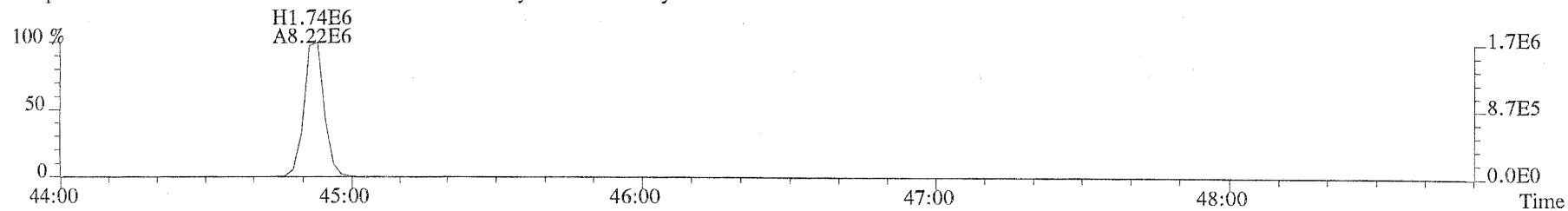
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



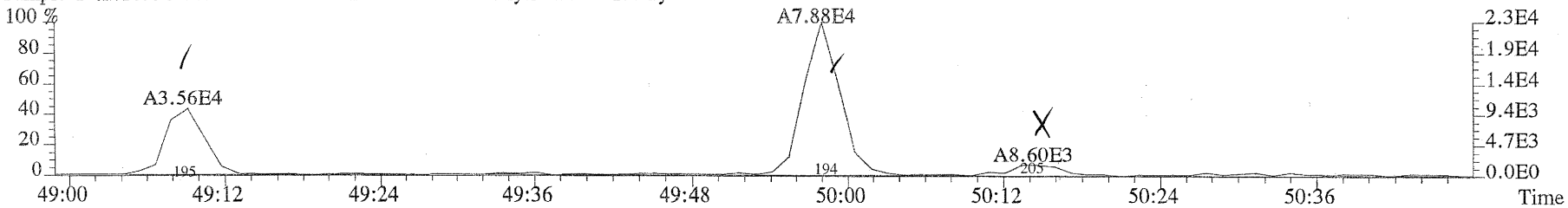
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



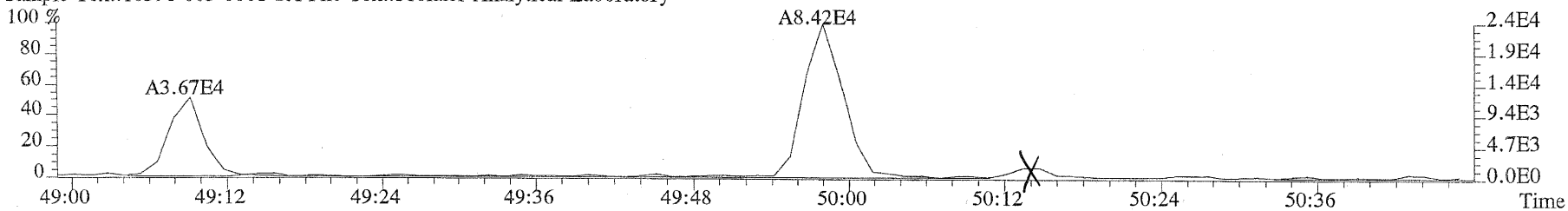
File:31JAN17Z #1-413 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



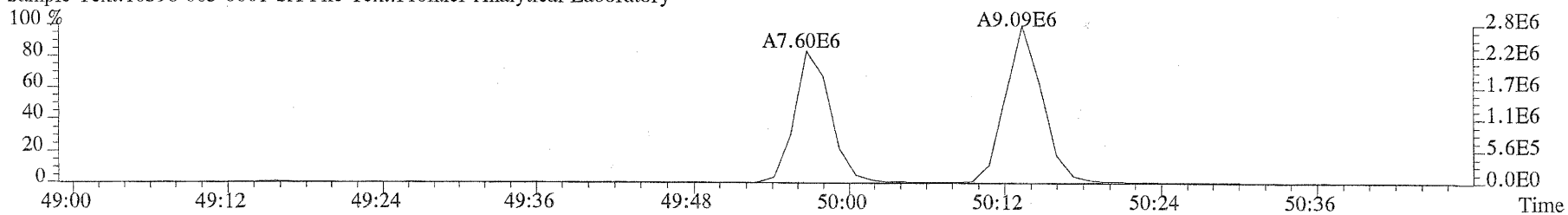
File:31JAN17Z #1-306 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



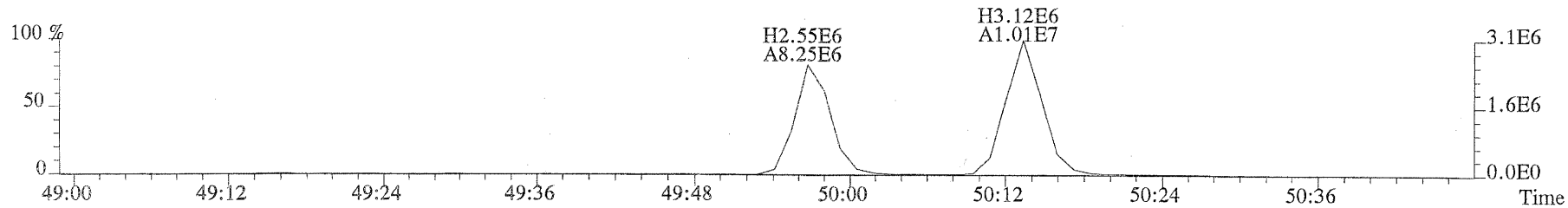
File:31JAN17Z #1-306 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



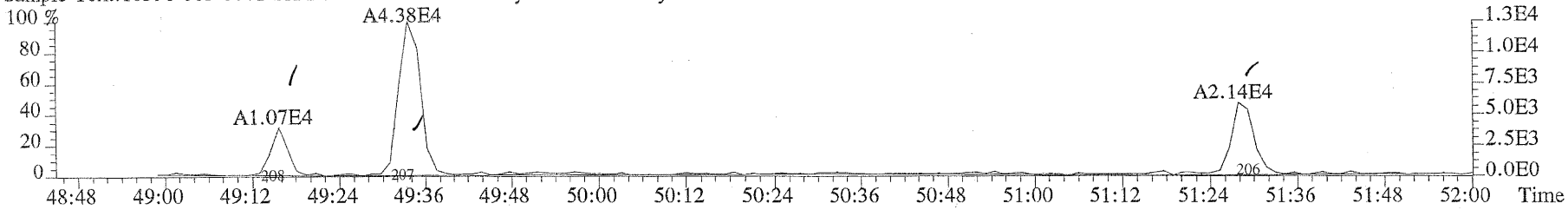
File:31JAN17Z #1-306 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



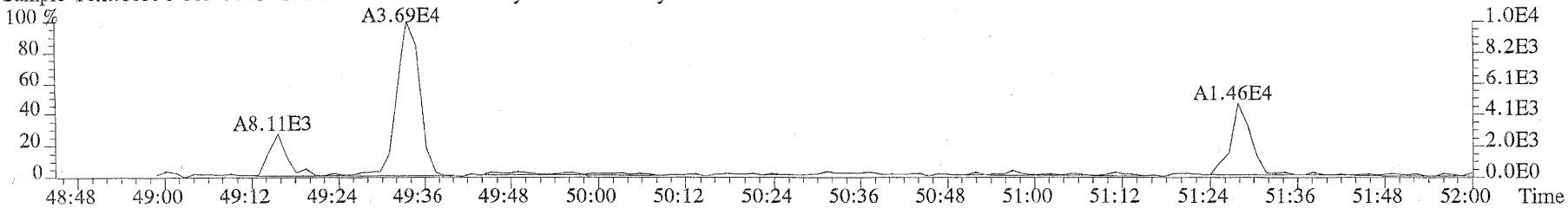
File:31JAN17Z #1-306 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:7 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



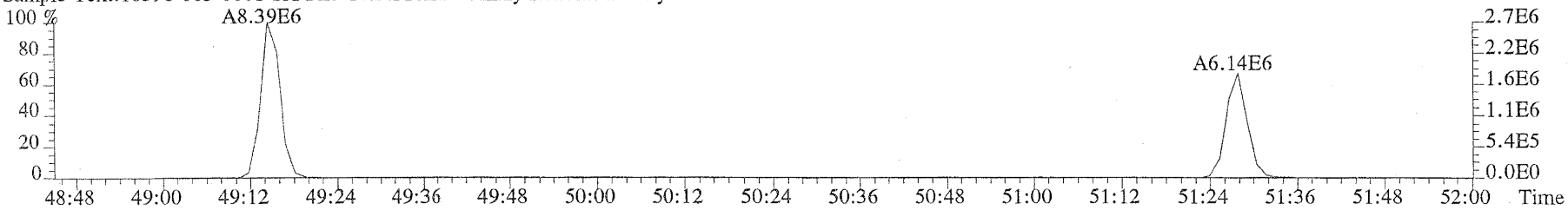
File:31JAN17Z #1-306 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



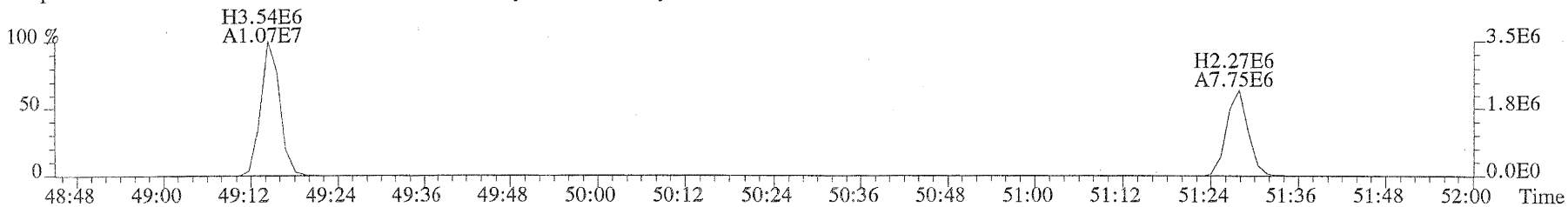
File:31JAN17Z #1-306 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



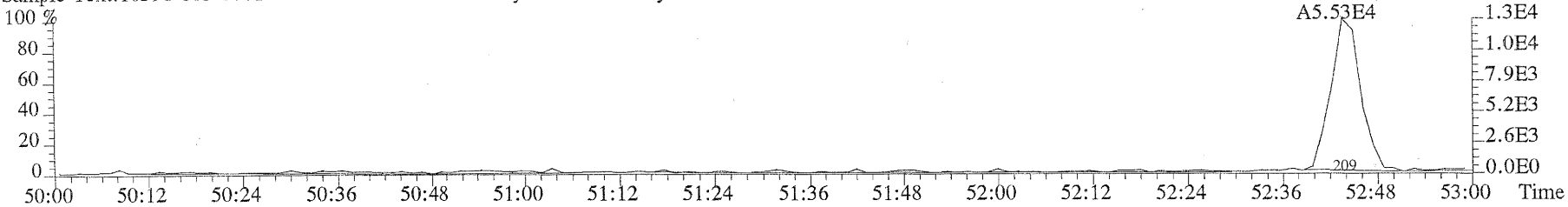
File:31JAN17Z #1-306 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



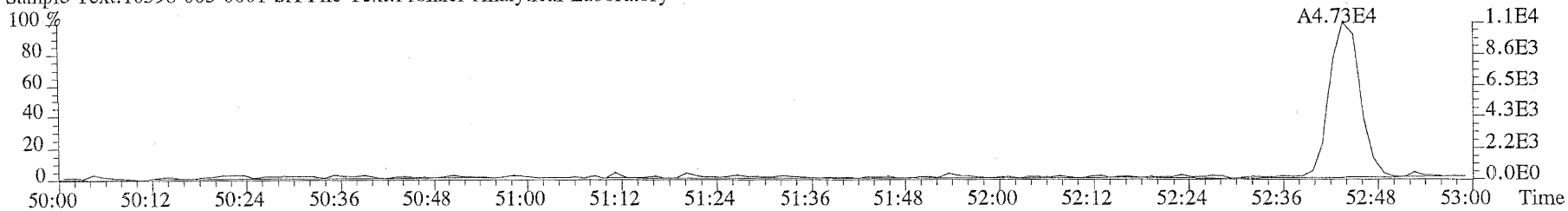
File:31JAN17Z #1-306 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



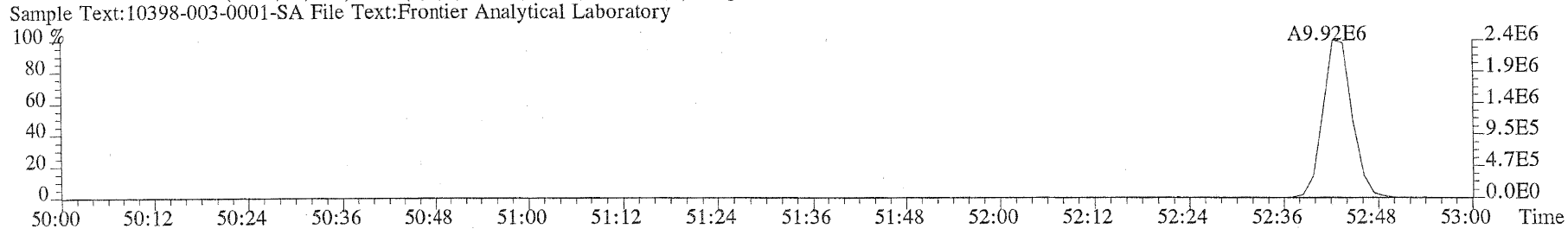
File:31JAN17Z #1-306 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



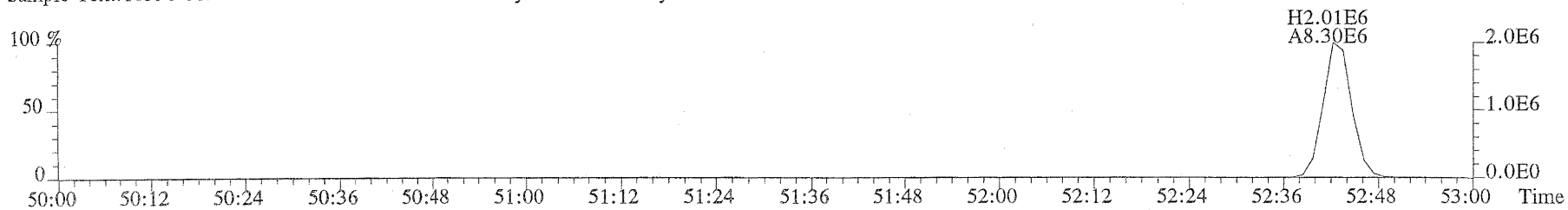
File:31JAN17Z #1-306 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 19:02:18 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:7 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-003-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10398-004-0001-SA Filename: 31JAN17Z Sam:8 Acquired: 31-JAN-17 20:00:38 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR-CA-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	S/N-1	S/N-2	Rec
PCB-1	2.21e+05	3.09 y	14:32	0.98	62.1		310	240	1.21	180	69	
13C-PCB-1	3.65e+07	3.25 y	14:31	1.01	8180					5900	430	82
PCB-2	2.41e+04	2.71 y	16:47	0.89	7.39	J	310	240	1.49	13	12	
PCB-3	3.92e+04	3.24 y	17:00	1.03	10.5	J	310	240	1.44	28	11	
13C-PCB-3	3.64e+07	3.30 y	16:59	0.97	8590					4700	340	86
PCB-4	2.36e+06	1.34 y	18:13	1.05	929		2100	3200	18.4	190	82	
PCB-10	3.87e+05	1.38 y	18:17	1.13	113		2100	3200	16.4	39	20	
13C-PCB-4	2.42e+07	1.58 y	18:12	0.63	8780					2600	2200	88
PCB-9	2.98e+05	1.52 y	19:55	1.19	82.9		2100	3200	15.6	25	11	
PCB-7	2.67e+05	1.58 y	19:57	1.27	69.7		2100	3200	14.6	23	12	
PCB-6	1.83e+06	1.42 y	20:32	1.23	489		2100	3200	15.0	130	55	
PCB-8	4.53e+06	1.44 y	20:55	1.11	1350		2100	3200	16.7	290	120	
PCB-5	4.53e+06	1.44 y	20:55	1.29	1160		2100	3200	14.4	290	120	
PCB-14	8.48e+05	1.40 y	21:59	1.15	243		2100	3200	16.1	51	23	
PCB-11	1.31e+05	1.42 y	23:08	1.08	39.8		2100	3200	17.1	6.8	8.9	
PCB-13	8.77e+04	1.53 y	23:28	1.08	26.8		2100	3200	17.2	7.7	5.4	
PCB-12	9.46e+04	1.59 y	23:29	1.13	27.6		2100	3200	16.4	7.5	6.6	
PCB-15	7.05e+05	1.38 y	23:47	1.07	181		2100	3200	16.7	31	17	
13C-PCB-15	3.64e+07	1.62 y	23:46	0.94	8800					2800	2400	88
PCB-19	1.45e+06	1.03 y	22:07	1.03	690		660	420	4.78	300	440	
PCB-30	*	* n	NotFnd	1.46	*		660	420	3.37	*	*	
PCB-18	1.24e+07	1.05 y	23:40	1.02	5940		660	420	4.84	2400	3700	
PCB-17	5.61e+06	1.05 y	23:50	1.10	2480		660	420	4.45	1000	1500	
PCB-27	6.31e+05	1.03 y	24:21	1.41	219		660	420	3.49	230	350	
PCB-24	8.05e+05	1.12 y	24:22	1.44	272		660	420	3.41	230	360	
PCB-16	3.53e+06	1.07 y	24:51	1.18	1450		660	420	4.15	850	1300	
PCB-32	4.31e+06	1.05 y	24:53	1.29	1630		660	420	3.82	940	1400	
13C-PCB-19	2.05e+07	1.08 y	22:05	0.57	8150					120	140	81
13C-PCB-9	4.39e+07	1.59 y	19:54	-	59.4					4300	3500	
PCB-34	1.58e+05	1.17 y	25:38	0.98	53.4		2100	1400	17.8	9.3	12	
PCB-23	*	* n	NotFnd	1.24	*		2100	1400	14.0	*	*	
PCB-29	8.02e+04	1.04 y	25:58	1.12	23.6		2100	1400	15.5	4.4	6.2	
PCB-26	3.34e+06	1.08 y	26:10	1.11	996		2100	1400	15.7	180	240	
PCB-25	1.68e+06	1.08 y	26:18	1.36	407		2100	1400	12.8	80	110	
PCB-31	9.31e+06	1.05 y	26:39	1.13	2730		2100	1400	15.4	570	790	
PCB-28	1.10e+07	1.07 y	26:45	1.34	2710		2100	1400	13.0	510	720	
PCB-20/21/33	5.48e+06	1.07 y	27:20	1.18	1530		2100	1400	14.7	260	350	
PCB-22	3.03e+06	1.03 y	27:44	1.17	861		2100	1400	15.0	140	210	
PCB-36	4.27e+06	1.11 y	28:21	1.05	1350		2100	1400	16.7	190	260	
PCB-39	*	* n	NotFnd	1.07	*		2100	1400	16.3	*	*	
PCB-38	1.26e+05	1.01 y	29:29	1.09	38.0		2100	1400	16.0	5.4	9.5	
PCB-35	7.99e+04	1.05 y	30:01	0.97	27.3		2100	1400	18.0	3.6	4.4	
PCB-37	9.06e+05	1.02 y	30:27	1.14	263		2100	1400	15.3	37	55	
13C-PCB-37	3.02e+07	1.05 y	30:26	1.14	9840					70	52	98

FAL ID: 10398-004-0001-SA Filename: 31JAN17Z Sam:8 Acquired: 31-JAN-17 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR-CA-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

PCB-54	8.54e+04	0.81	y	25:39	0.99	31.8	1500	870	9.08	6.0	15	
PCB-50	8.24e+04	0.87	y	26:45	0.74	41.4	1500	870	12.3	5.6	12	
PCB-53	2.47e+06	0.75	y	27:22	0.74	1240	1500	870	12.2	170	380	
PCB-51	7.61e+05	0.78	y	27:42	0.75	374	1500	870	12.0	52	120	
PCB-45	1.67e+06	0.76	y	28:06	0.65	946	1500	870	13.8	110	250	
PCB-46	6.53e+05	0.75	y	28:34	0.62	391	1500	870	14.6	44	98	
PCB-52/69	1.63e+07	0.77	y	29:00	0.95	6300	1500	870	9.45	1000	2300	
PCB-73	*	*	n	NotFnd	0.85	*	1500	870	10.6	*	*	
PCB-43/49	1.05e+07	0.77	y	29:18	0.72	5430	1500	870	12.6	690	1500	
PCB-47	3.01e+06	0.74	y	29:29	0.91	1220	1500	870	9.85	170	410	
PCB-48/75	2.25e+06	0.77	y	29:36	0.90	921	1500	870	9.96	150	320	
PCB-65	*	*	n	NotFnd	0.95	*	1500	870	9.52	*	*	
PCB-62	*	*	n	NotFnd	0.84	*	1500	870	10.7	*	*	
PCB-44	7.19e+06	0.78	y	30:14	0.64	4140	1500	870	14.0	440	1000	
PCB-42/59	3.08e+06	0.77	y	30:27	0.87	1310	1500	870	10.4	190	420	
PCB-41/64/71/72	7.68e+06	0.77	y	31:02	0.94	3030	1500	870	9.61	400	880	
PCB-68	1.84e+05	0.69	y	31:15	0.99	68.5	1500	870	9.06	10	23	
PCB-40	1.06e+06	0.73	y	31:27	0.56	704	1500	870	16.2	62	140	
PCB-57	8.94e+04	0.72	y	31:50	0.94	35.2	1500	870	9.59	4.4	11	
PCB-67	2.57e+05	0.79	y	32:06	0.86	110	1500	870	10.5	15	34	
PCB-58	7.69e+04	0.69	y	32:12	0.99	28.8	1500	870	9.12	5.1	11	
PCB-63	3.62e+05	0.79	y	32:22	0.95	141	1500	870	9.48	20	45	
PCB-74	3.03e+06	0.78	y	32:39	0.97	1150	1500	870	9.25	170	380	
PCB-61/70	6.97e+06	0.78	y	32:50	1.03	2510	1500	870	8.78	430	910	
PCB-66/76	6.21e+06	0.77	y	33:03	0.99	2330	1500	870	9.13	290	650	
PCB-80	*	*	n	NotFnd	1.07	*	1500	870	8.42	*	*	
PCB-55	3.27e+05	0.77	y	33:33	0.97	125	1500	870	9.33	13	26	
13C-PCB-54	2.71e+07	0.79	y	25:38	1.12	8930				2700	5600	89
PCB-104	5.10e+06	1.56	y	30:06	1.06	2370	330	540	4.65	2100	830	
PCB-96	1.49e+05	1.57	y	31:17	0.99	74.3	330	540	4.99	57	21	
PCB-103	2.59e+05	1.60	y	31:48	0.82	155	330	540	5.99	120	39	
PCB-100	8.97e+04	1.32	y	32:10	0.82	54.0	330	540	6.02	29	15	
PCB-94	5.11e+04	1.59	y	32:35	0.68	36.8	330	540	7.20	21	9.2	
PCB-98/102	*	*	n	NotFnd	0.87	*	330	540	5.68	*	*	
PCB-95	8.13e+06	1.57	y	33:05	0.74	5430	330	540	6.68	3100	1200	
PCB-93	*	*	n	NotFnd	0.70	*	330	540	7.07	*	*	
PCB-88/91	9.32e+05	1.63	y	33:29	0.79	580	330	540	6.22	690	290	
PCB-121	8.37e+06	1.55	y	33:33	0.93	4440	330	540	5.31	3200	1200	
13C-PCB-104	2.03e+07	1.58	y	30:05	0.82	9160				4700	4200	92
13C-PCB-28	3.74e+07	1.06	y	26:44	1.38	10100				110	81	100
13C-PCB-52	2.69e+07	0.77	y	28:59	-	54.2				2400	5300	
PCB-56/60	3.02e+06	0.77	y	34:01	1.06	1040	1600	1400	14.9	150	220	
PCB-79	1.29e+05	0.71	y	35:03	1.08	43.4	1600	1400	14.6	6.2	9.3	
PCB-78	7.41e+06	0.79	y	35:43	1.03	2640	1600	1400	15.4	370	530	
PCB-81	1.99e+05	0.76	y	36:12	1.07	67.7	1600	1400	13.9	8.6	13	
13C-PCB-81	2.76e+07	0.81	y	36:12	1.02	10100				2000	3000	100
PCB-77	2.53e+05	0.72	y	36:48	0.99	94.6	1600	1400	17.0	10	15	
13C-PCB-77	2.71e+07	0.81	y	36:46	1.01	10000				1700	2700	100

PCB-155	1.10e+07	1.29	y	34:16	1.01	4870	430	560	5.44	3100	1800	
PCB-150	*	*	n	NotFnd	0.91	*	430	560	6.02	*	*	
PCB-152	*	*	n	NotFnd	0.90	*	430	560	6.10	*	*	
PCB-145	*	*	n	NotFnd	0.89	*	430	560	6.18	*	*	
PCB-136	1.23e+06	1.28	y	36:39	0.93	595	430	560	5.92	320	190	
PCB-148	*	*	n	NotFnd	0.64	*	430	560	8.54	*	*	
PCB-154	1.95e+05	1.40	y	37:13	0.78	112	430	560	7.03	48	31	
13C-PCB-155	2.23e+07	1.29	y	34:15	1.02	8190				5400	3200	82
13C-PCB-111	2.91e+07	1.60	y	36:20	1.11	9760				1600	1000	98
13C-PCB-101	2.68e+07	1.59	y	34:41	-	59.3				1500	970	
PCB-84/92	4.54e+06	1.57	y	34:21	0.79	2150	3900	2700	41.6	140	130	
PCB-89	1.36e+05	1.41	y	34:31	0.73	70.4	3900	2700	45.4	3.5	4.3	
PCB-90/101	9.31e+06	1.57	y	34:43	0.85	4120	3900	2700	38.9	300	270	
PCB-113	*	*	n	NotFnd	1.01	*	3900	2700	32.8	*	*	
PCB-99	4.45e+06	1.52	y	35:01	0.88	1890	3900	2700	37.3	140	130	
PCB-119	4.64e+05	1.45	y	35:28	1.08	161	3900	2700	30.5	14	14	
PCB-83/112	4.82e+05	1.54	y	35:37	0.84	215	3900	2700	39.2	15	14	
PCB-109	*	*	n	NotFnd	1.01	*	3900	2700	32.5	*	*	
PCB-97	2.15e+06	1.55	y	35:57	0.92	873	3900	2700	35.7	67	59	
PCB-86	*	*	n	NotFnd	0.82	*	3900	2700	40.4	*	*	
PCB-87/117/125	2.57e+06	1.56	y	36:14	0.95	1010	3900	2700	34.7	75	70	
PCB-111/115	1.62e+05	1.55	y	36:21	1.16	52.5	3900	2700	28.4	5.2	5.0	
PCB-85/116	1.04e+06	1.52	y	36:27	0.89	439	3900	2700	37.1	30	29	
PCB-120	*	*	n	NotFnd	1.12	*	3900	2700	29.5	*	*	
PCB-110	9.61e+06	1.59	y	36:50	1.07	3370	3900	2700	30.8	310	280	
PCB-82	5.47e+05	1.50	y	37:26	0.63	327	3900	2700	52.6	17	16	
PCB-124	2.09e+05	1.67	y	38:06	1.04	75.2	760	780	7.36	27	16	
PCB-107/108	5.12e+05	1.56	y	38:16	0.99	194	760	780	7.73	74	48	
PCB-123	7.62e+04	1.61	y	38:24	1.22	24.9	760	780	6.23	15	8.5	
13C-PCB-123	2.52e+07	1.59	y	38:23	1.07	9350				700	370	93
PCB-118/106	4.78e+06	1.57	y	38:34	0.96	1760	760	780	8.11	690	440	
13C-PCB-118	2.83e+07	1.62	y	38:34	1.18	9490				680	360	95
PCB-114	1.27e+05	1.51	y	39:12	1.07	44.1	760	780	7.01	16	9.2	
13C-PCB-114	2.69e+07	1.57	y	39:11	1.11	9590				710	380	96
PCB-122	6.82e+04	1.63	y	39:19	0.96	26.7	760	780	8.00	8.7	5.3	
PCB-105	1.52e+06	1.58	y	40:02	1.02	570	760	780	7.68	210	120	
13C-PCB-105	2.62e+07	1.61	y	40:00	1.09	9560				680	360	96
PCB-127	*	*	n	NotFnd	0.89	*	760	780	8.63	*	*	
PCB-126	*	*	n	NotFnd	1.05	*	760	780	9.45	*	*	
13C-PCB-126	2.35e+07	1.65	y	42:08	0.90	10400				530	280	100
PCB-151	1.39e+06	1.30	y	37:50	0.81	678	880	780	10.2	190	170	
PCB-135	8.65e+05	1.24	y	38:01	0.80	427	880	780	10.3	110	100	
PCB-144	2.33e+05	1.13	y	38:08	0.85	108	880	780	9.75	32	32	
PCB-147	1.06e+05	1.25	y	38:16	0.95	44.5	880	780	8.80	15	13	
PCB-139/149	4.81e+06	1.29	y	38:29	0.91	2090	880	780	9.09	610	550	
PCB-140	8.23e+04	1.30	y	38:41	0.91	36.0	880	780	9.15	9.9	7.8	
PCB-134/143	3.08e+05	1.27	y	39:07	0.83	147	880	780	9.97	39	33	
PCB-131/133	1.49e+05	1.21	y	39:22	0.85	69.4	880	780	9.76	21	19	
PCB-142	7.68e+06	1.25	y	39:32	0.73	4180	880	780	11.4	1000	910	
PCB-146/165	9.78e+05	1.21	y	39:45	1.00	388	880	780	8.29	120	110	
PCB-132/161	1.56e+06	1.23	y	40:00	0.97	640	880	780	8.58	220	190	
PCB-153	4.61e+06	1.28	y	40:08	0.90	2040	880	780	9.26	570	510	
PCB-168	*	*	n	NotFnd	1.10	*	880	780	7.59	*	*	
PCB-141	6.15e+05	1.24	y	40:51	0.84	291	880	780	9.88	75	68	
PCB-137	1.76e+05	1.29	y	41:12	0.91	77.4	880	780	9.18	21	18	

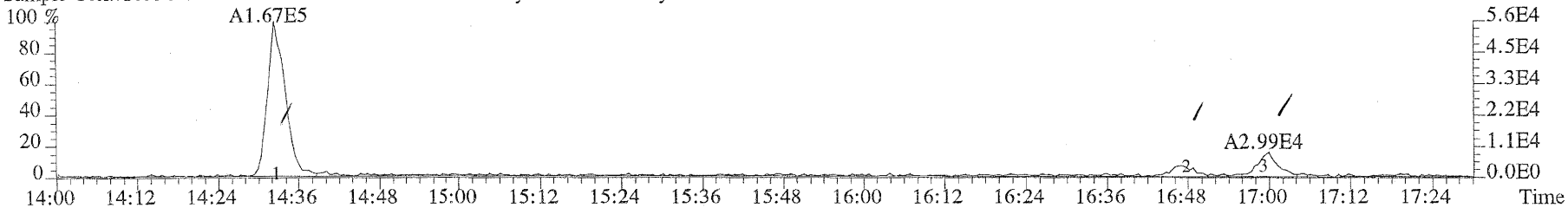
FAL ID: 10398-004-0001-SA Filename: 31JAN17Z Sam:8 Acquired: 31-JAN-17 20:00:38 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR-CA-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

PCB-130	2.35e+05	1.13	y	41:17	0.64	145		880	780	12.9	31	29	
PCB-138/163/164	4.07e+06	1.26	y	41:39	1.10	1480		880	780	7.59	450	410	
PCB-158/160	4.76e+05	1.24	y	41:52	1.09	174		880	780	7.63	58	51	
PCB-129	1.25e+05	1.36	y	42:07	0.69	71.3		880	780	12.0	15	15	
PCB-166	*	*	n	NotFnd	1.07	*		880	780	7.78	*	*	
PCB-159	4.94e+04	1.21	y	42:54	1.06	18.4	J	880	780	7.81	6.6	5.1	
PCB-128/162	4.85e+05	1.28	y	43:08	0.92	210		880	780	9.04	61	53	
PCB-167	1.03e+05	1.27	y	43:31	0.93	42.7		880	780	8.74	14	12	
13C-PCB-167	2.60e+07	1.26	y	43:29	1.09	9460					1100	1200	95
PCB-156	2.52e+05	1.38	y	44:45	0.97	106		880	780	8.76	35	29	
13C-PCB-156	2.44e+07	1.28	y	44:43	1.01	9600					1000	1100	96
PCB-157	5.77e+04	1.25	y	44:59	0.97	22.1		880	780	8.57	7.4	7.3	
13C-PCB-157	2.69e+07	1.28	y	44:58	1.04	10200					1000	1100	100
PCB-169	*	*	n	NotFnd	0.92	*		880	780	9.06	*	*	
13C-PCB-169	2.33e+07	1.27	y	46:51	0.87	10600					1000	1100	110
PCB-188	*	*	n	NotFnd	1.07	*		610	500	5.47	*	*	
13C-PCB-188	2.31e+07	1.08	y	39:45	1.14	8010					3600	5700	80
PCB-184	1.71e+07	1.06	y	40:11	1.21	6420		610	500	4.41	3000	3400	
PCB-179	5.50e+05	1.08	y	40:56	1.17	214		610	500	4.57	95	110	
PCB-176	1.30e+05	1.07	y	41:22	1.12	52.8		610	500	4.77	25	28	
PCB-186	*	*	n	NotFnd	1.12	*		610	500	4.74	*	*	
PCB-178	1.40e+05	0.95	y	42:25	0.82	77.9		610	500	6.52	24	31	
PCB-175	2.36e+04	1.18	y	42:45	0.87	12.3	J	610	500	6.15	5.9	6.2	
PCB-182/187	8.90e+05	1.09	y	42:54	0.92	440		610	500	5.81	150	160	
PCB-183	3.69e+05	1.05	y	43:12	0.91	183		610	500	5.84	67	79	
PCB-185	5.29e+04	1.13	y	43:50	0.84	28.5		610	500	6.33	12	12	
PCB-174	5.84e+05	1.11	y	44:10	0.93	285		610	500	5.74	97	120	
PCB-181	*	*	n	NotFnd	0.72	*		610	500	7.39	*	*	
PCB-177	3.36e+05	1.16	y	44:27	0.76	200		610	500	6.98	64	73	
PCB-171	1.39e+05	0.98	y	44:43	0.80	78.2		610	500	6.62	24	31	
PCB-173	*	*	n	NotFnd	0.73	*		610	500	7.28	*	*	
PCB-172	2.56e+05	1.07	y	45:29	0.75	154		610	500	7.07	45	48	
PCB-192	1.03e+07	1.08	y	45:42	0.97	4800		610	500	5.49	2000	2300	
PCB-180	1.02e+06	1.03	y	45:52	0.96	478		610	500	5.53	190	230	
PCB-193	9.38e+04	0.90	y	46:02	1.06	40.1		610	500	5.02	14	18	
PCB-191	3.87e+04	0.94	y	46:15	1.02	17.3	J	610	500	5.24	5.4	6.3	
PCB-170	2.88e+05	1.11	y	47:10	0.70	188		610	500	7.66	59	75	
PCB-190	8.54e+04	1.15	y	47:19	0.95	40.8		610	500	5.61	19	21	
PCB-189	2.24e+04	1.03	y	48:33	1.04	10.2	J	610	500	4.56	4.0	4.5	
13C-PCB-189	2.11e+07	1.09	y	48:32	0.85	9870					4500	7000	99
PCB-202	3.10e+04	0.89	y	44:53	0.90	19.1	J	260	360	4.68	15	12	
PCB-201	*	*	n	NotFnd	0.93	*		260	360	4.51	*	*	
PCB-204	1.61e+07	0.90	y	45:29	0.85	10500		260	360	4.97	6800	5500	
PCB-197	1.42e+05	0.97	y	45:46	0.92	85.9		260	360	4.60	56	43	
PCB-200	2.89e+04	0.91	y	46:30	0.88	18.1	J	260	360	4.78	12	8.3	
PCB-198	*	*	n	NotFnd	0.56	*		260	360	7.55	*	*	
PCB-199	1.13e+05	0.79	y	47:47	0.68	91.9		260	360	6.18	48	43	
PCB-196/203	1.28e+05	0.94	y	48:02	0.67	105		260	360	6.25	65	53	
13C-PCB-202	1.80e+07	0.92	y	44:53	0.92	7800					5700	4400	78
13C-PCB-178	1.70e+07	1.07	y	42:23	0.80	8470					2800	4500	85
13C-PCB-138	2.52e+07	1.25	y	41:37	-	61.5					1100	1200	

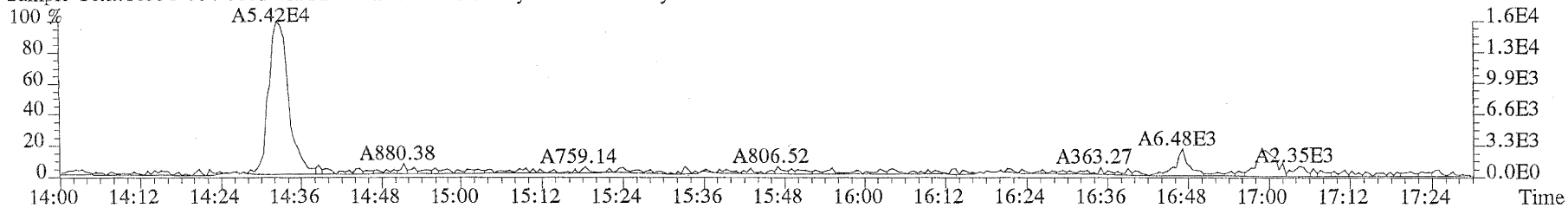
PCB-195	4.91e+04	0.90	y	49:09	0.78	27.3		540	470	4.78	13	14	
PCB-194	1.11e+05	0.84	y	49:58	0.83	58.2		540	470	4.49	30	39	
PCB-205	*	*	n	NotFnd	1.07	*		540	470	3.49	*	*	
13C-PCB-205	2.29e+07	0.90	y	50:13	1.19	9110					4500	4000	91
PCB-208	1.32e+04	1.20	y	49:15	0.91	6.50	J	280	280	2.27	6.5	6.3	
13C-PCB-208	2.24e+07	0.79	y	49:14	1.31	8130					4900	8900	81
PCB-207	9.28e+04	1.40	y	49:33	1.04	45.9		280	280	2.39	59	41	
PCB-206	2.53e+04	1.45	y	51:29	0.93	16.6	J	280	280	3.31	15	9.1	
13C-PCB-206	1.64e+07	0.79	y	51:28	0.94	8290					3400	5800	83
PCB-209	9.19e+04	1.10	y	52:43	0.99	43.9		310	290	3.03	37	41	
13C-PCB-209	2.11e+07	1.21	y	52:43	1.29	7760					7900	7100	78
13C-PCB-194	2.11e+07	0.93	y	49:57	-	66.9					4100	3600	

Analyst: _____ Date: 2/3/17

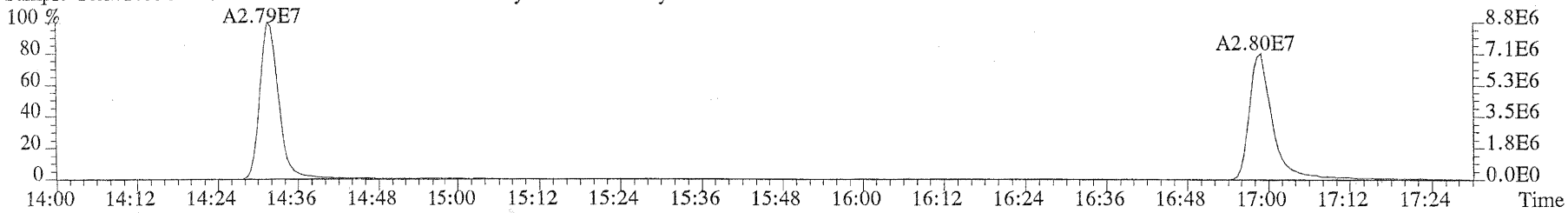
File:31JAN17Z #1-784 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



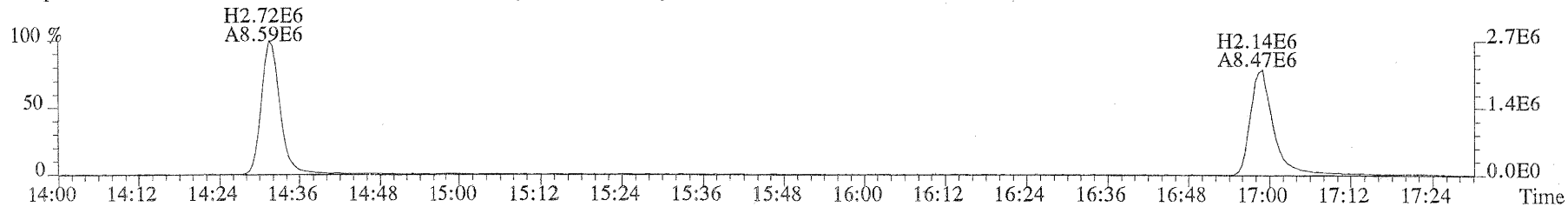
File:31JAN17Z #1-784 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



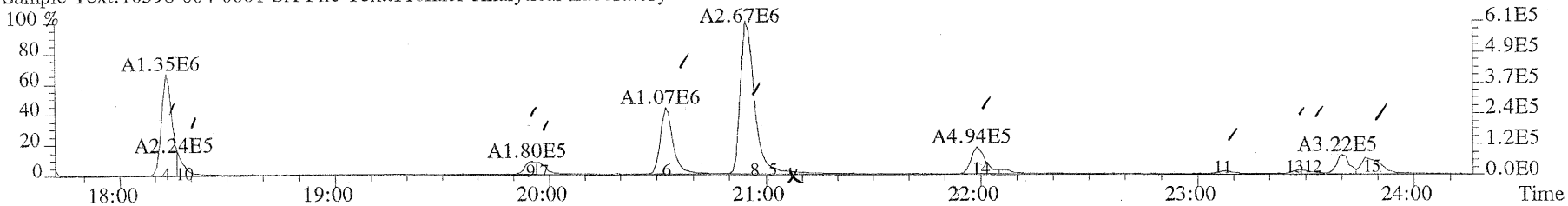
File:31JAN17Z #1-784 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



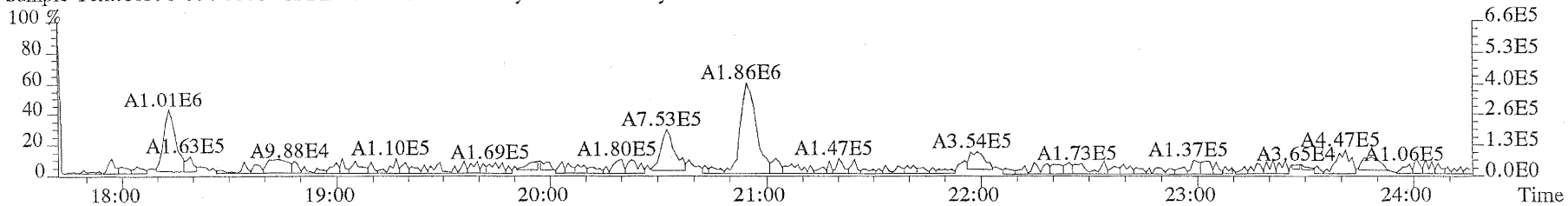
File:31JAN17Z #1-784 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:8 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



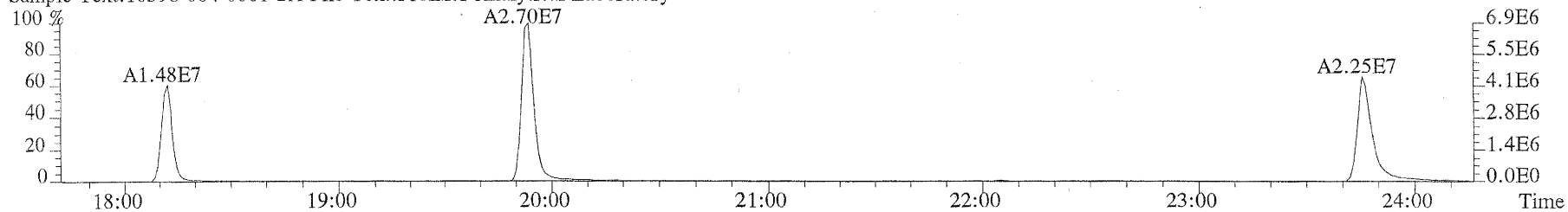
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



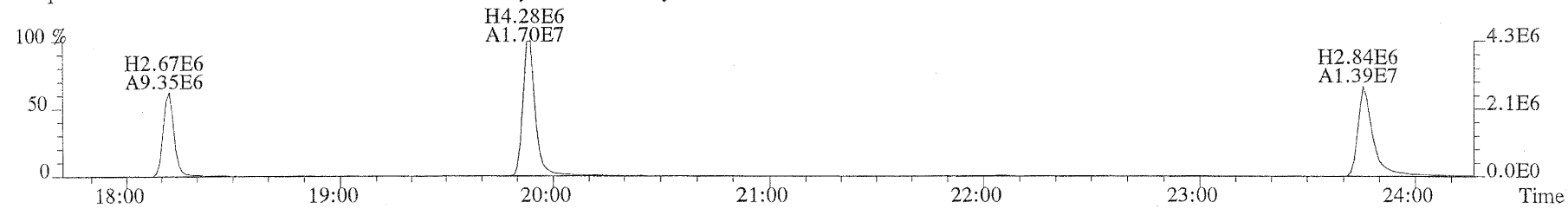
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



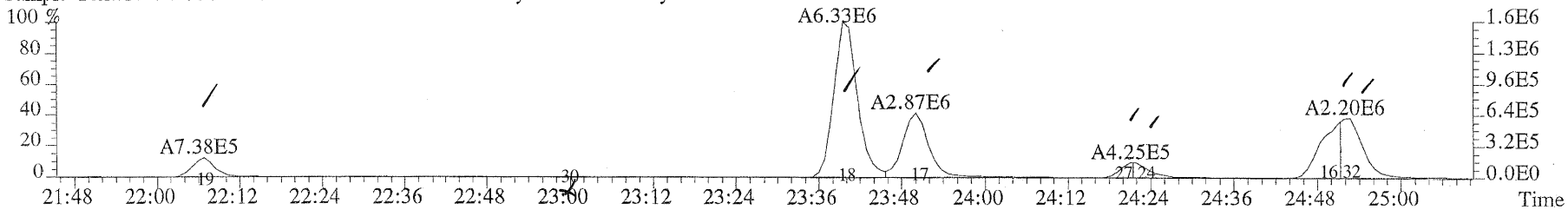
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



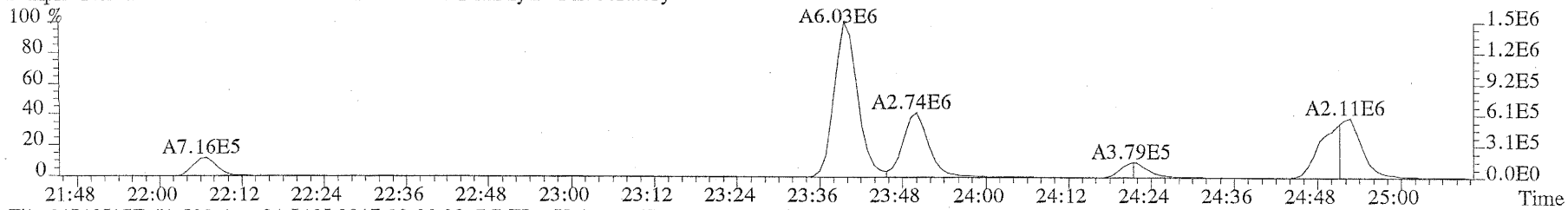
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



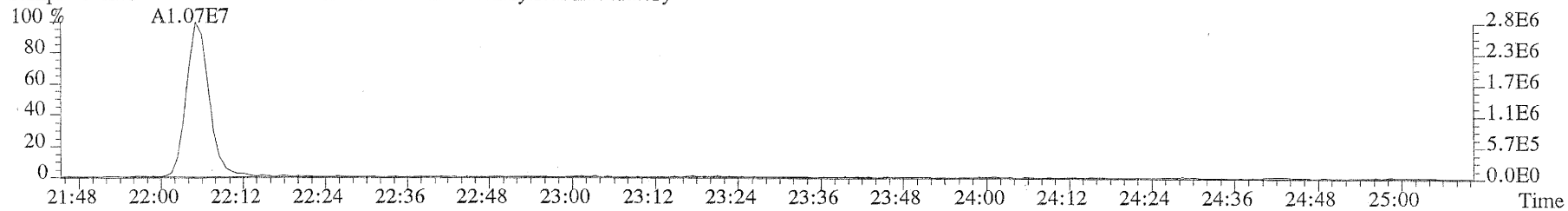
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



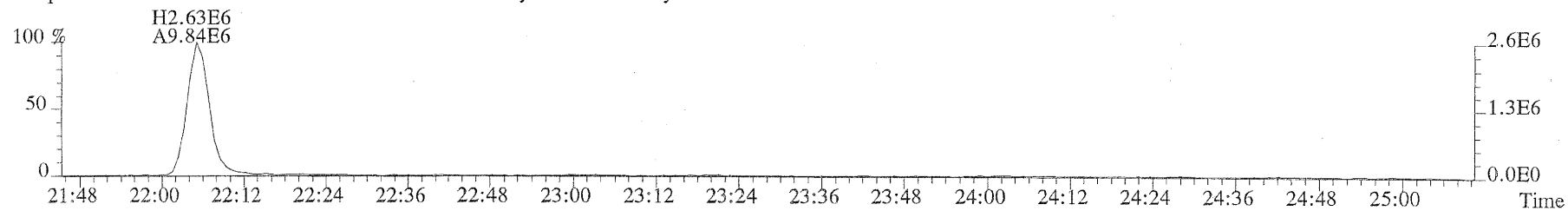
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



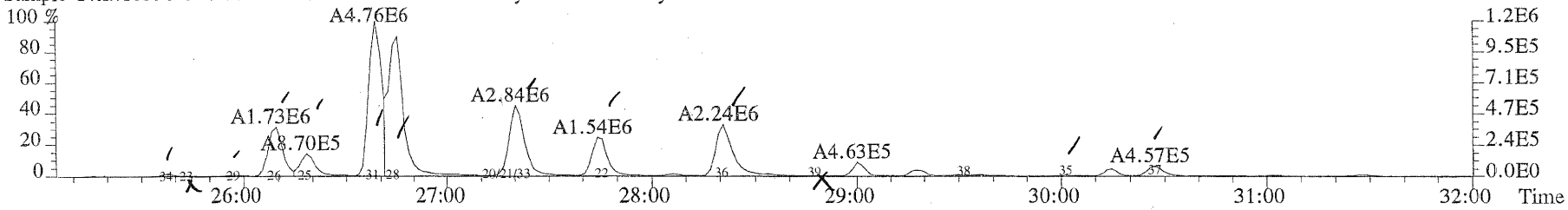
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



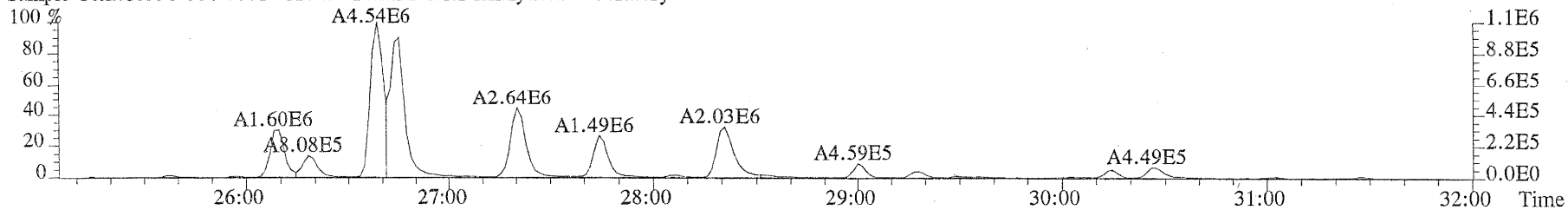
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



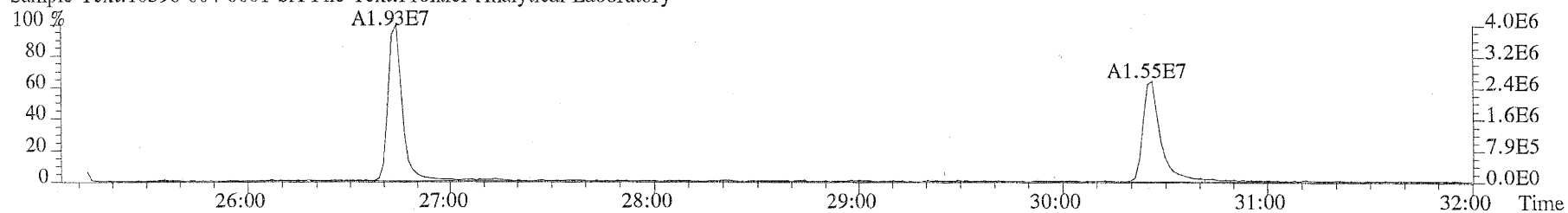
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



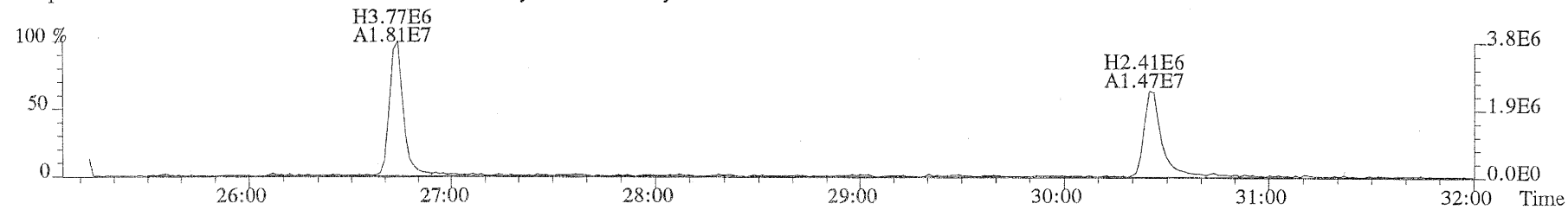
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



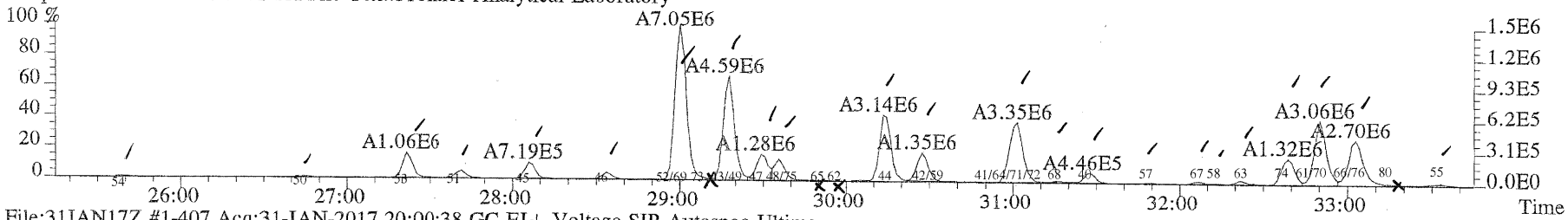
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



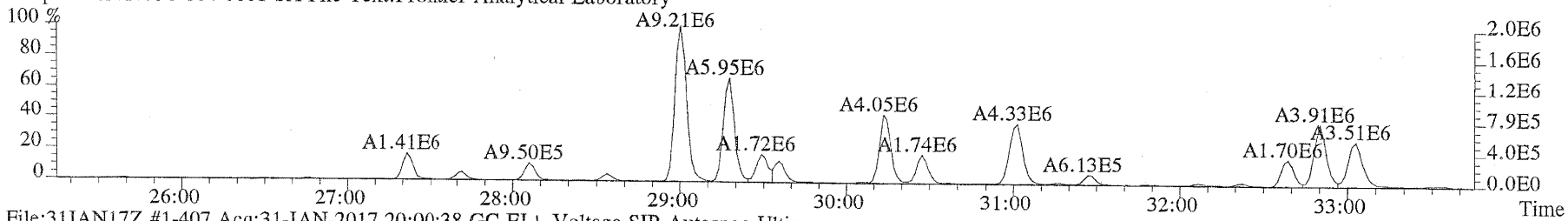
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



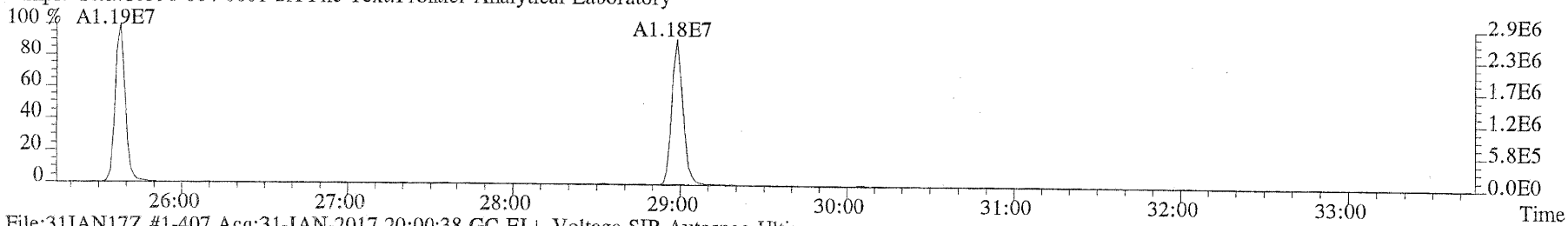
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



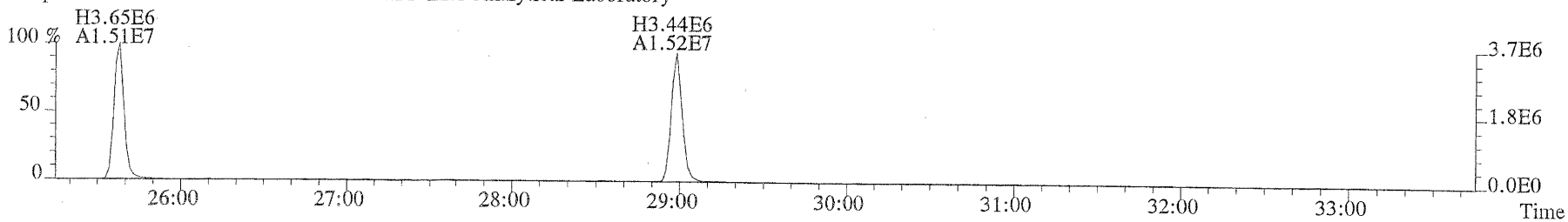
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



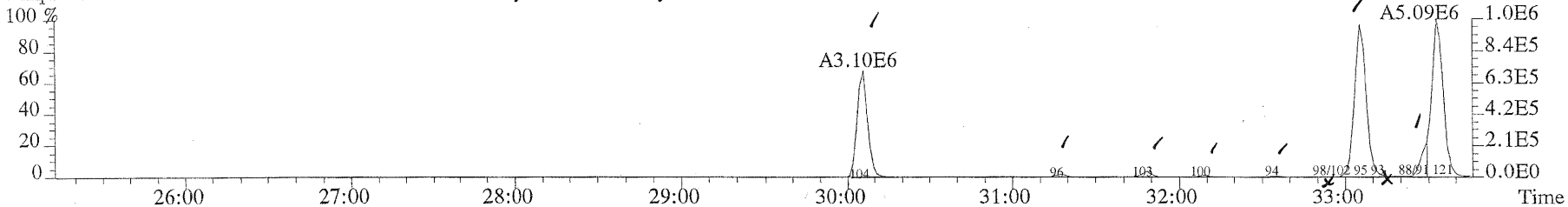
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



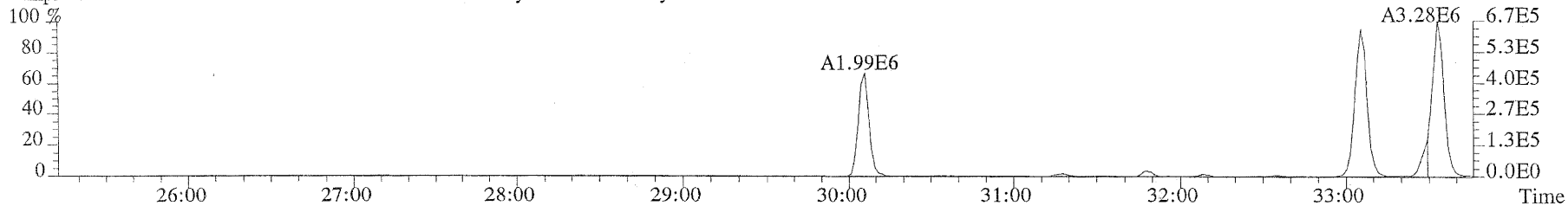
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



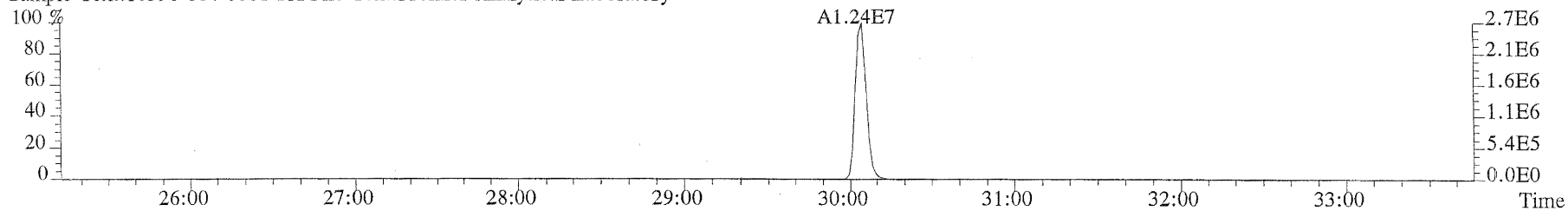
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



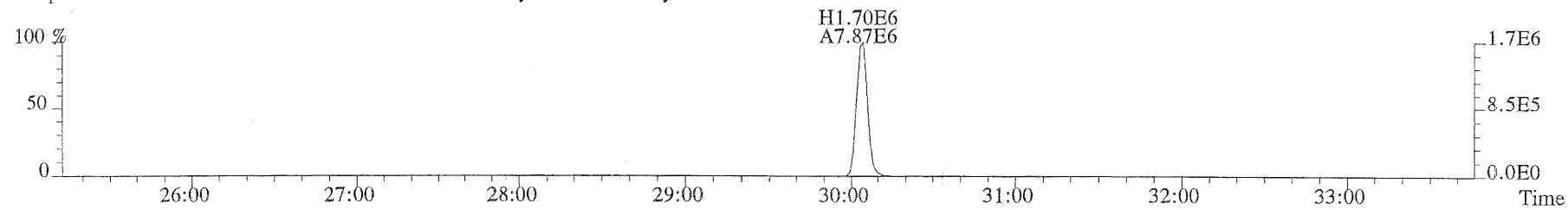
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



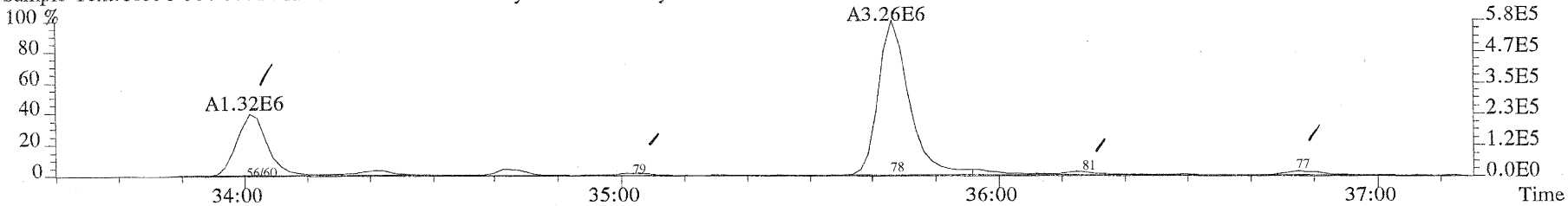
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



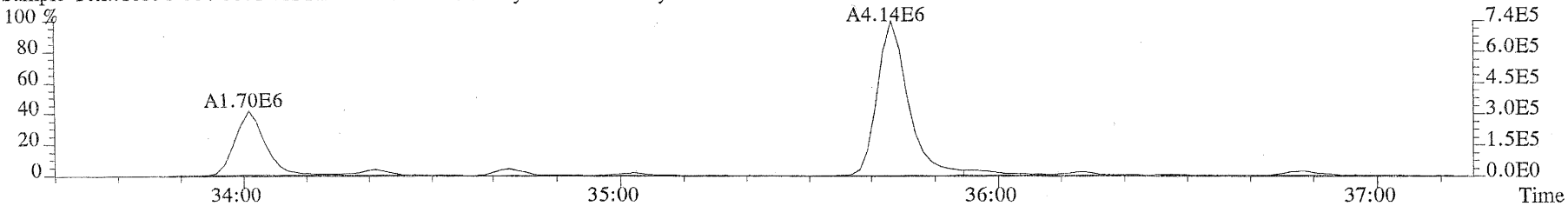
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



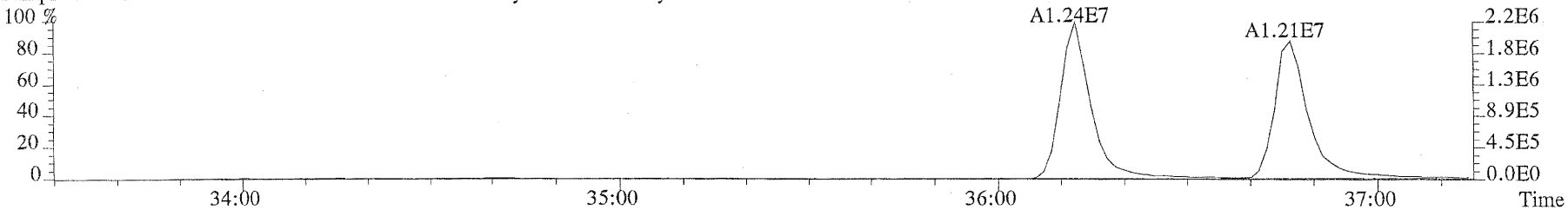
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



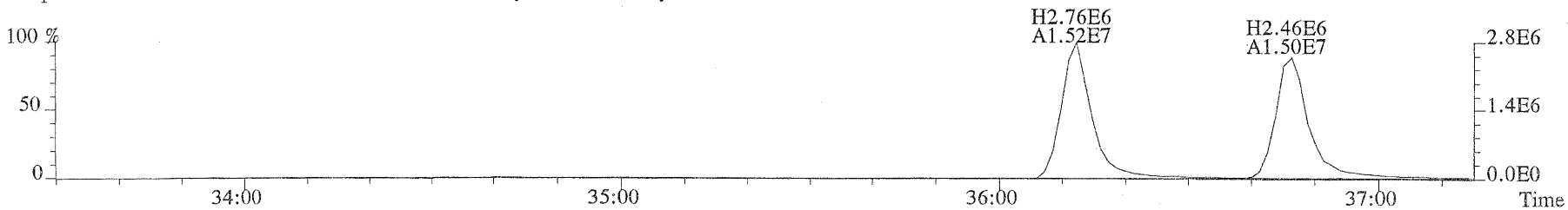
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



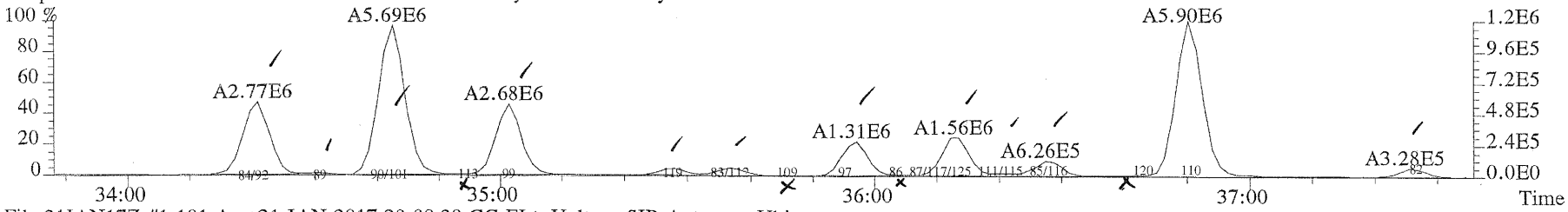
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



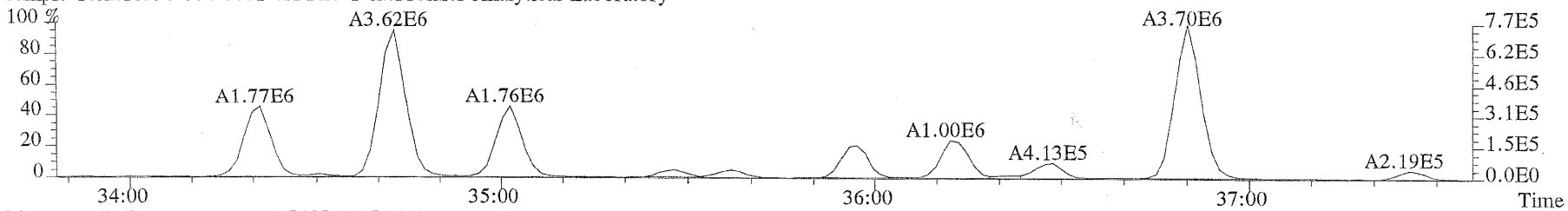
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



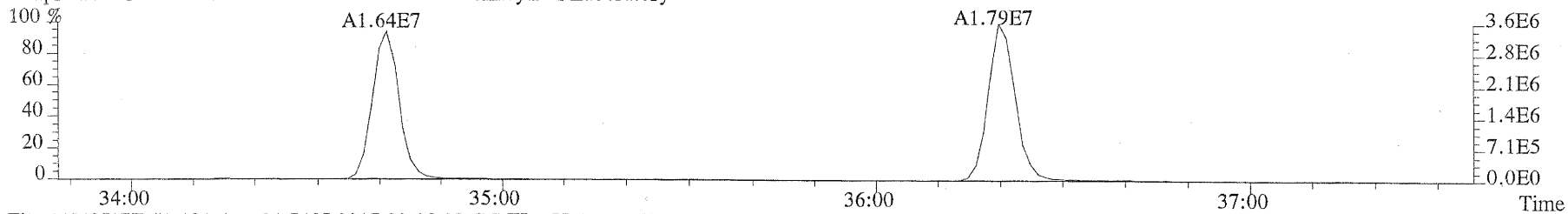
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



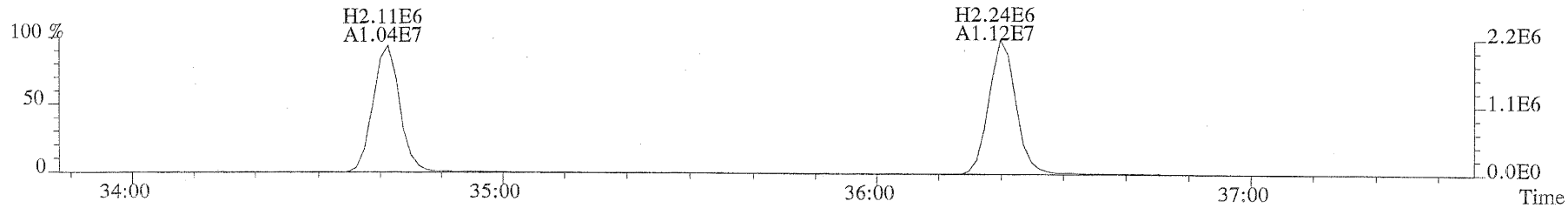
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



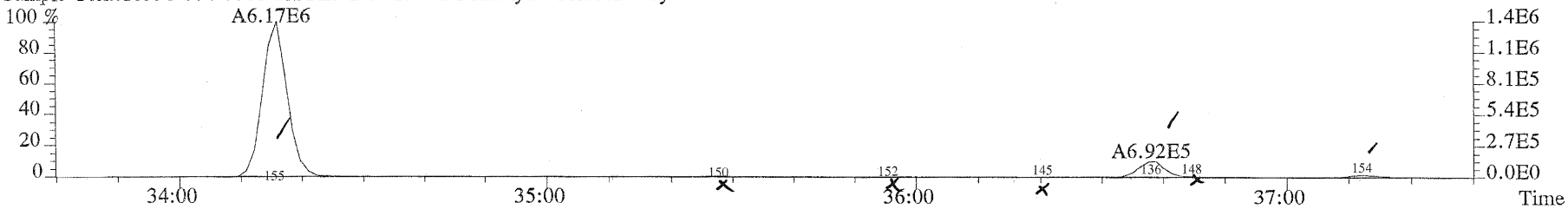
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



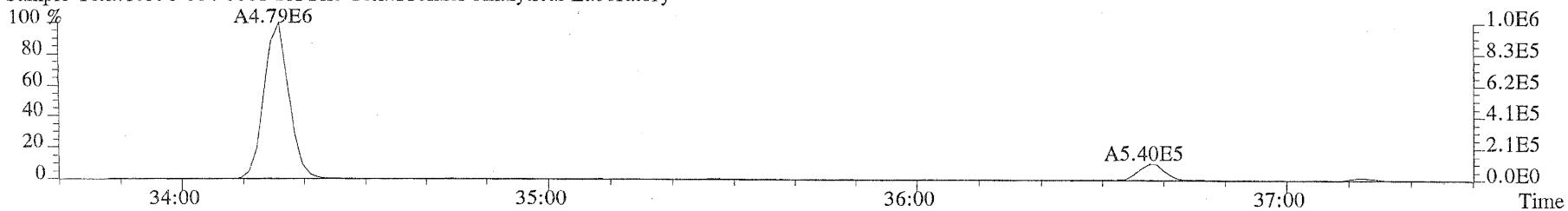
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



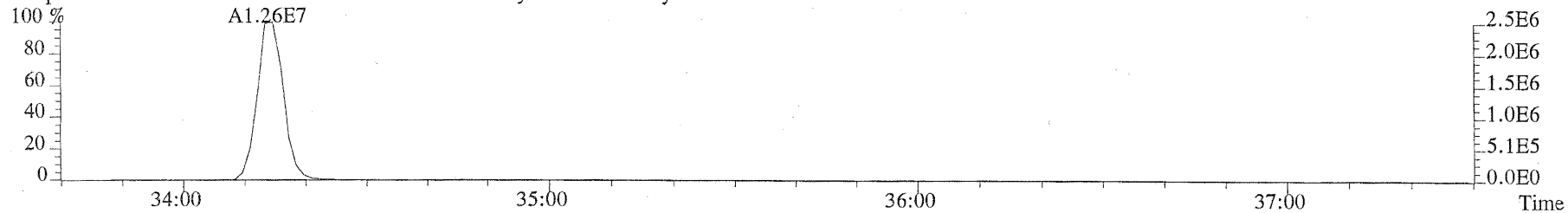
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-181 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory

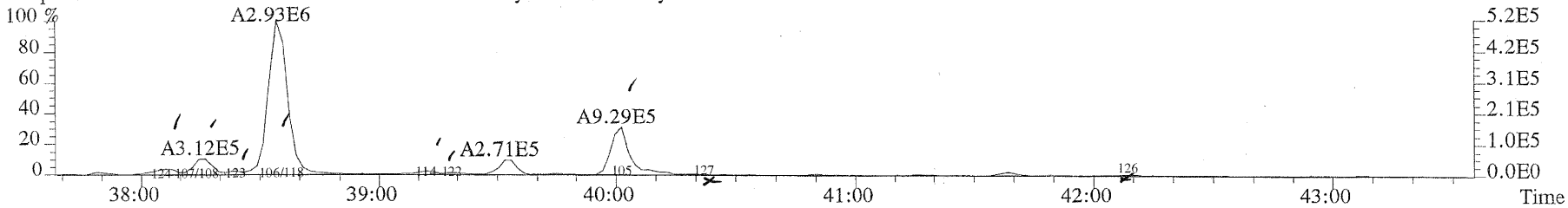


File:31JAN17Z #1-181 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory

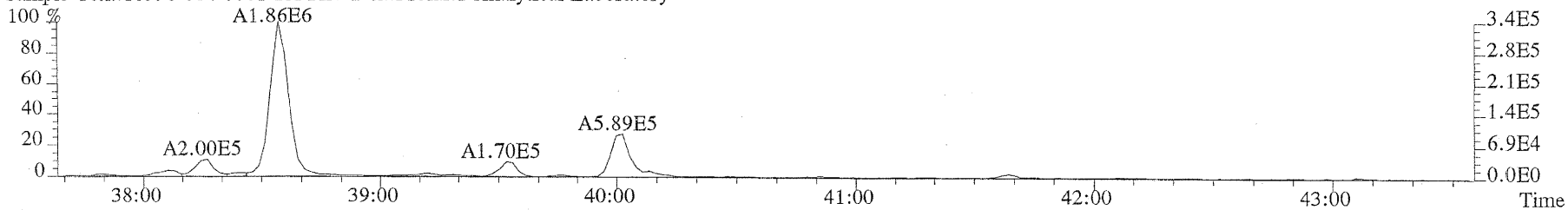


File:31JAN17Z #1-181 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory

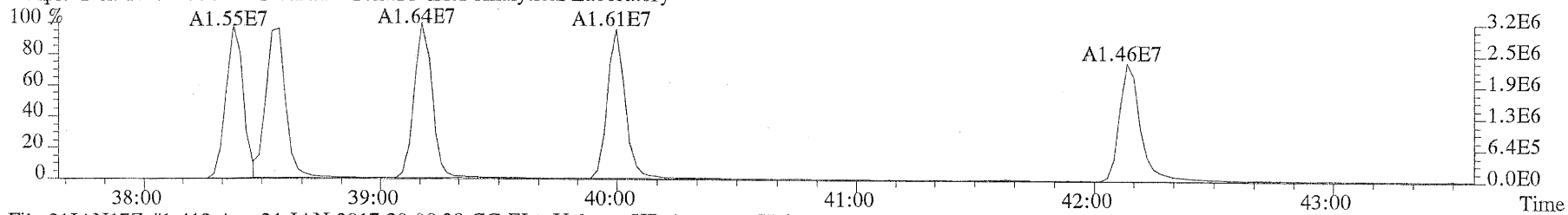
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



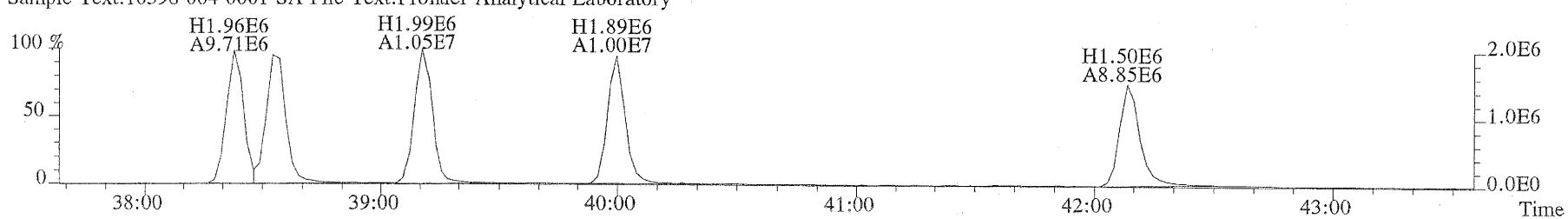
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



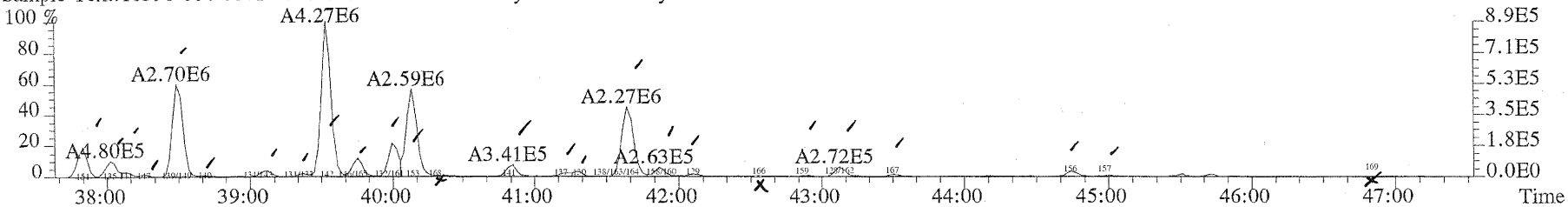
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



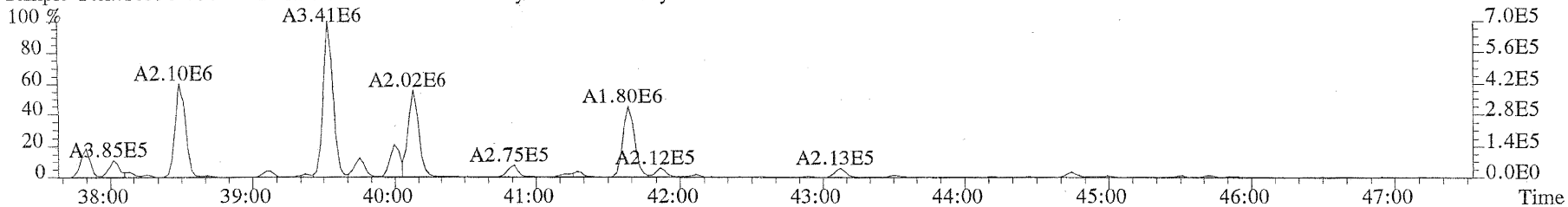
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



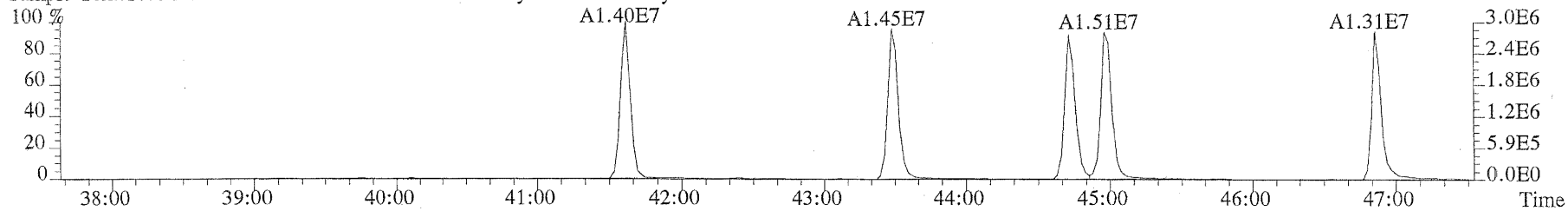
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



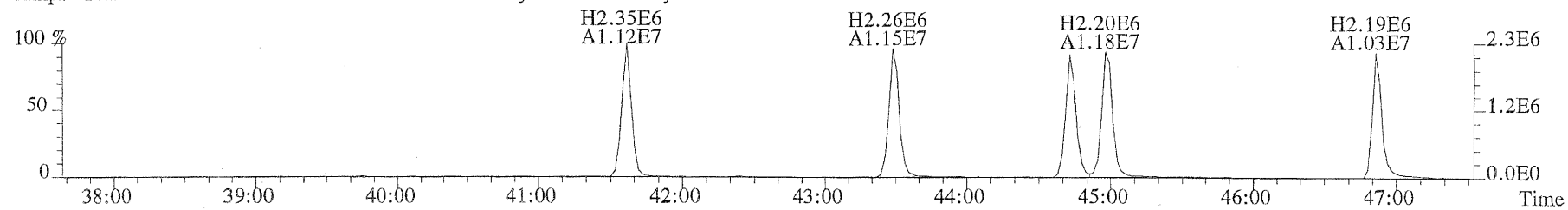
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



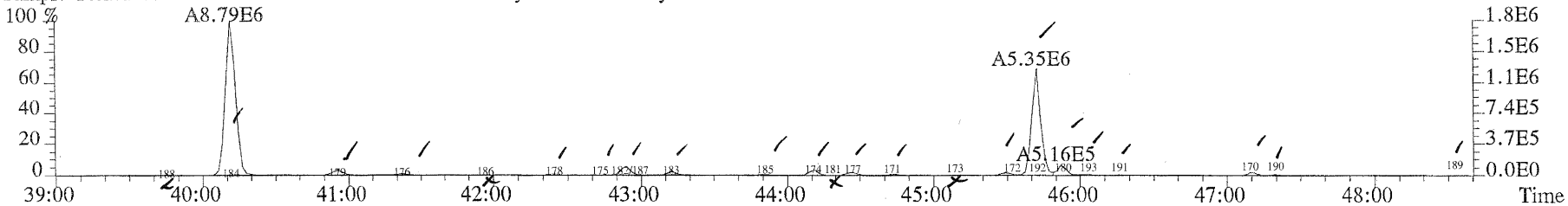
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



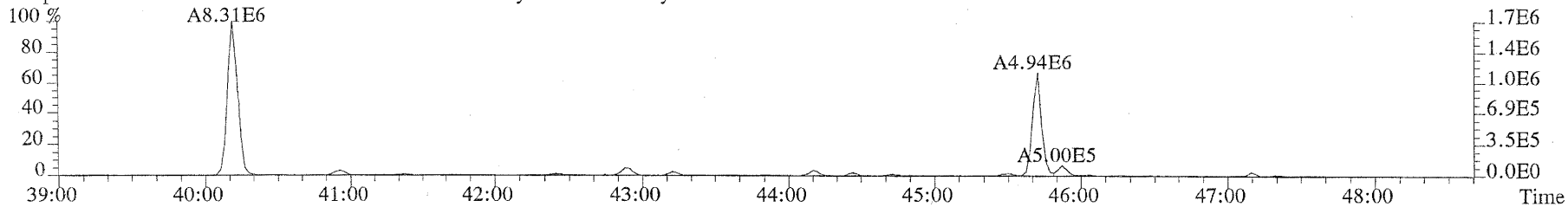
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:8 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



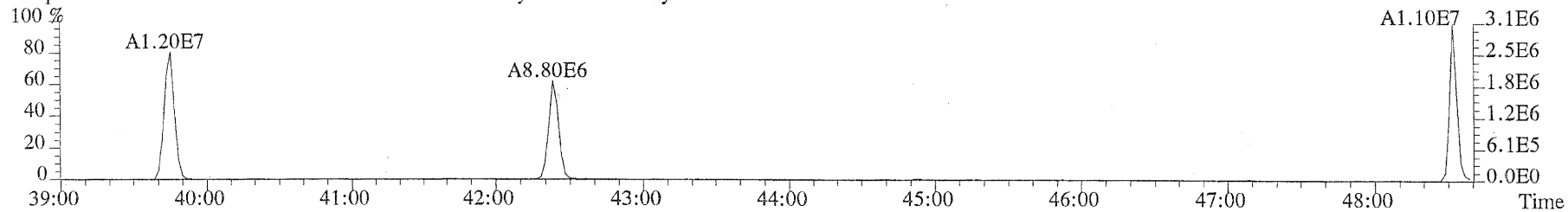
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



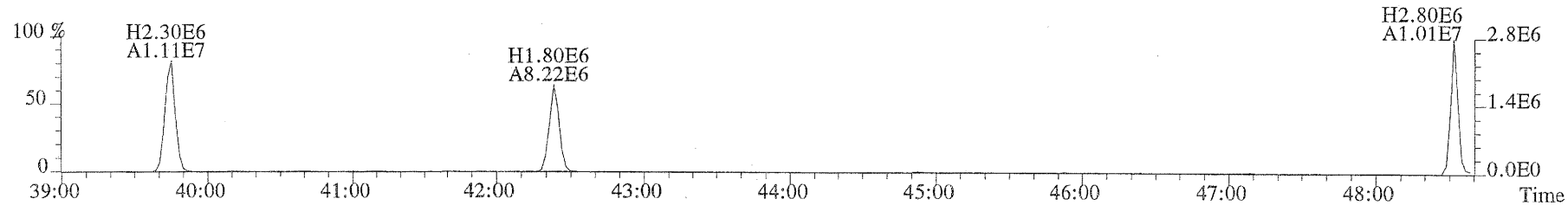
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



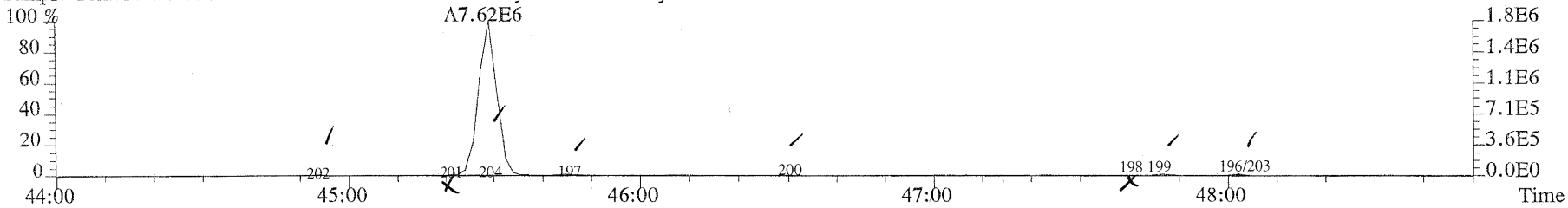
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



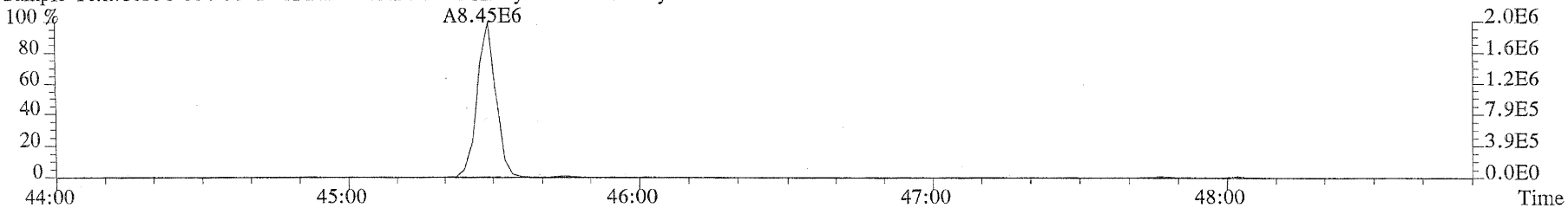
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



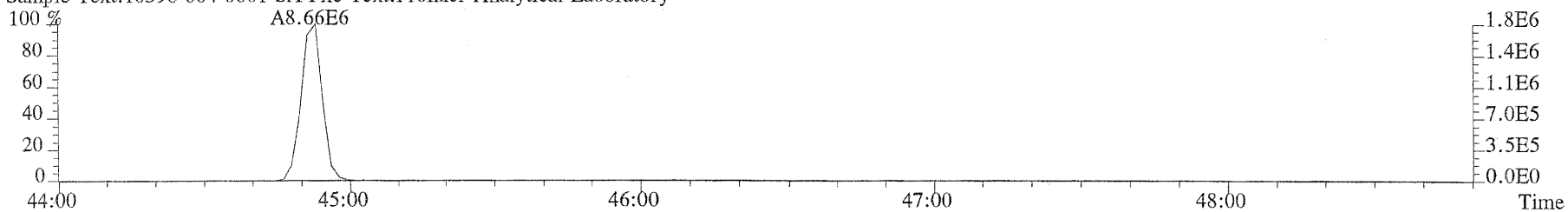
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



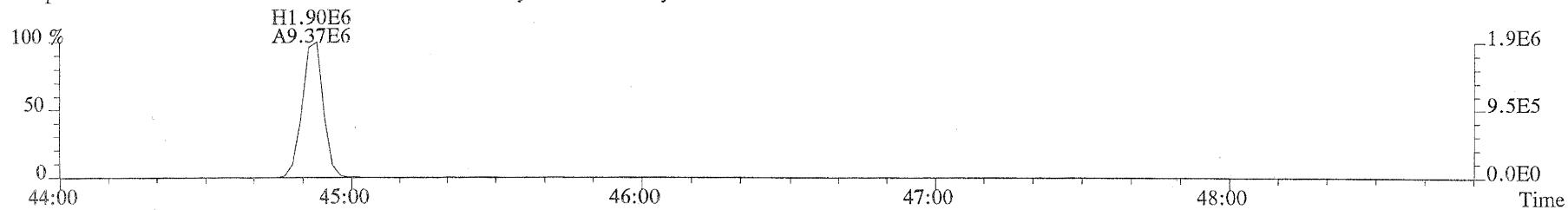
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



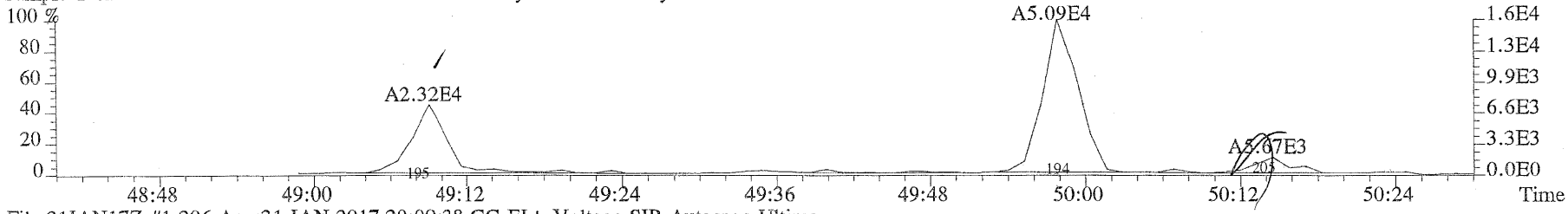
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



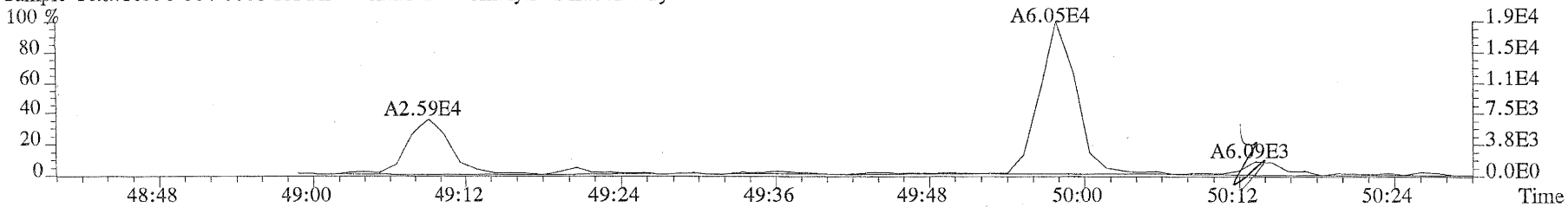
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



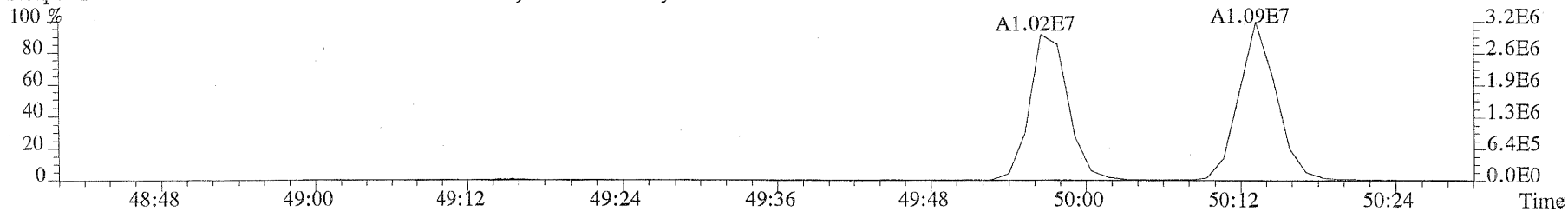
File:31JAN17Z #1-306 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



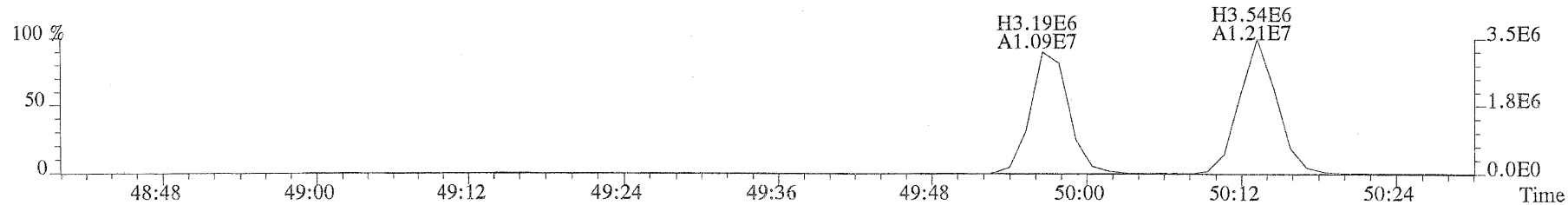
File:31JAN17Z #1-306 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



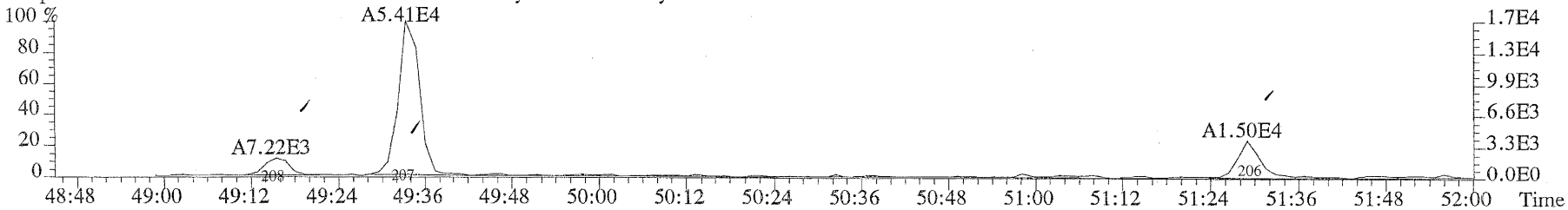
File:31JAN17Z #1-306 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



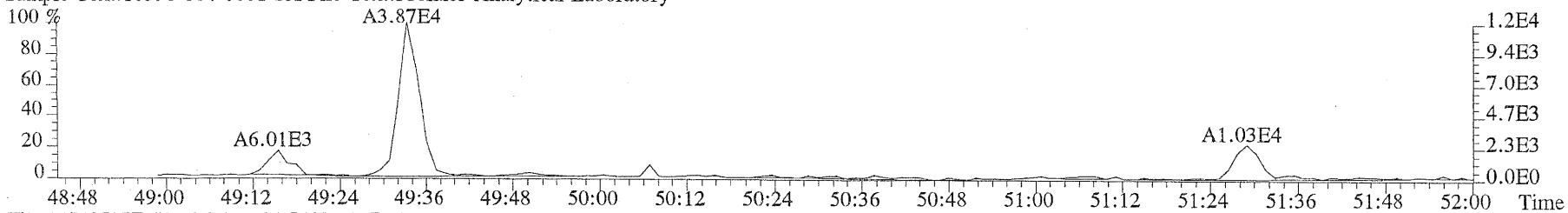
File:31JAN17Z #1-306 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



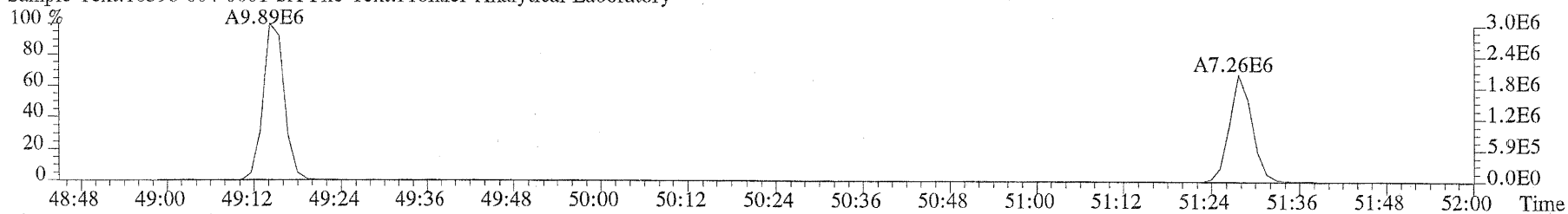
File:31JAN17Z #1-306 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



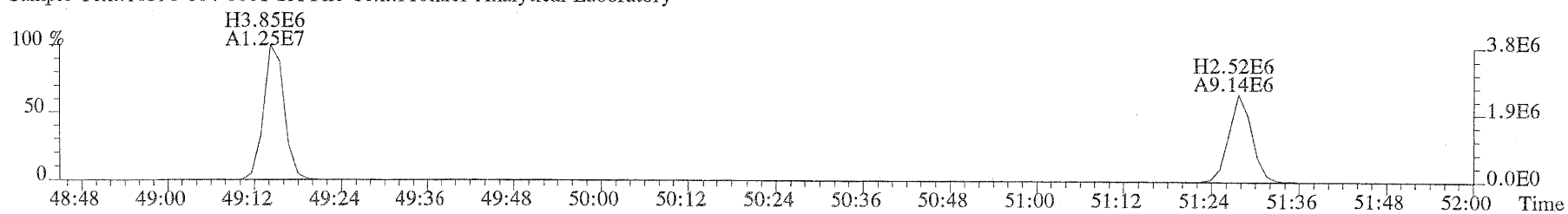
File:31JAN17Z #1-306 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



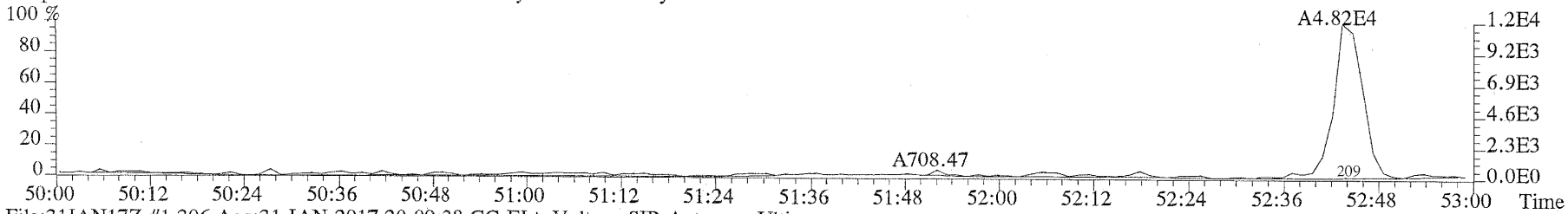
File:31JAN17Z #1-306 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



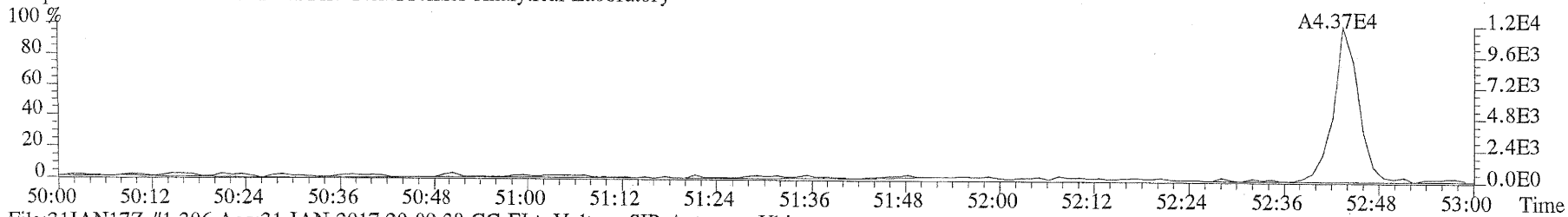
File:31JAN17Z #1-306 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



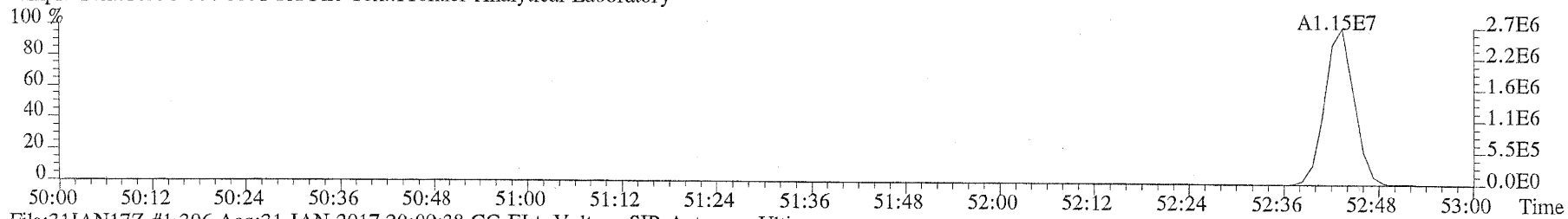
File:31JAN17Z #1-306 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



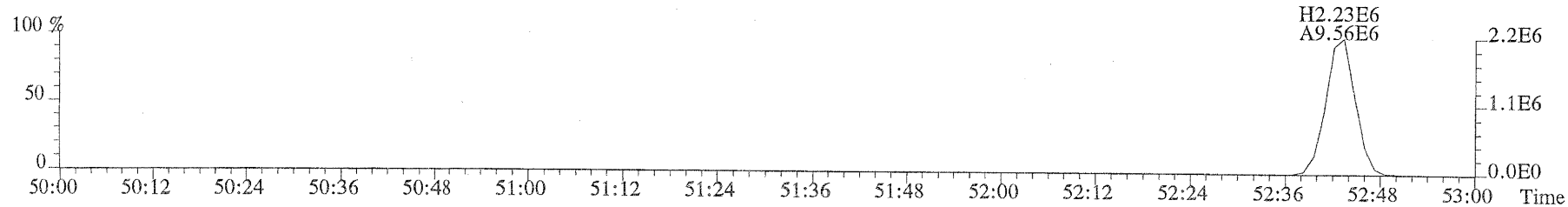
File:31JAN17Z #1-306 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 20:00:38 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:8 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-004-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10398-005-0001-SA Filename: 31JAN17Z Sam:9 Acquired: 31-JAN-17 20:58:58 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR-CB-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	S/N-1	S/N-2	Rec
PCB-1	2.03e+05	3.16 y	14:32	0.98	54.1		1000	820	3.91	50	21	
13C-PCB-1	3.85e+07	3.24 y	14:32	1.01	8890					6400	480	89
PCB-2	*	* n	NotFnd	0.89	*		1000	820	4.65	*	*	
PCB-3	8.26e+04	3.07 y	17:00	1.03	20.8		1000	820	4.37	18	6.7	
13C-PCB-3	3.86e+07	3.24 y	16:58	0.97	9370					5400	400	94
PCB-4	2.57e+06	1.41 y	18:13	1.05	970		2000	4100	19.4	230	76	
PCB-10	4.11e+05	1.51 y	18:16	1.13	113		2000	4100	17.2	44	24	
13C-PCB-4	2.51e+07	1.56 y	18:12	0.63	9420					3300	1900	94
PCB-9	3.18e+05	1.37 y	19:55	1.19	83.1		2000	4100	16.3	30	13	
PCB-7	3.51e+05	1.43 y	19:57	1.27	85.9		2000	4100	15.3	29	18	
PCB-6	2.14e+06	1.41 y	20:32	1.23	537		2000	4100	15.7	160	56	
PCB-8	6.45e+06	1.36 y	20:54	1.11	1800		2000	4100	17.5	440	150	
PCB-5	*	* n	NotFnd	1.29	*		2000	4100	15.1	*	*	
PCB-14	9.53e+05	1.45 y	21:59	1.15	256		2000	4100	16.8	66	30	
PCB-11	1.43e+05	1.47 y	23:07	1.08	40.8		2000	4100	17.9	7.3	7.5	
PCB-13	9.59e+04	1.45 y	23:28	1.08	27.5		2000	4100	17.9	12	6.4	
PCB-12	1.28e+05	1.43 y	23:29	1.13	35.0		2000	4100	17.1	13	7.6	
PCB-15	1.10e+06	1.69 y	23:47	1.07	259		2000	4100	17.4	57	20	
13C-PCB-15	3.94e+07	1.61 y	23:46	0.94	9820					3600	2100	98
PCB-19	1.70e+06	1.06 y	22:07	1.03	744		660	380	4.42	340	590	
PCB-30	*	* n	NotFnd	1.46	*		660	380	3.11	*	*	
PCB-18	1.69e+07	1.05 y	23:40	1.02	7460		660	380	4.48	3300	5400	
PCB-17	7.83e+06	1.04 y	23:50	1.10	3180		660	380	4.12	1400	2300	
PCB-27	8.53e+05	0.97 y	24:22	1.41	272		660	380	3.23	260	460	
PCB-24	8.75e+05	1.15 y	24:23	1.44	273		660	380	3.15	240	380	
PCB-16	5.01e+06	1.05 y	24:51	1.18	1900		660	380	3.84	1100	1900	
PCB-32	5.94e+06	1.04 y	24:53	1.29	2070		660	380	3.53	1300	2300	
13C-PCB-19	2.23e+07	1.07 y	22:06	0.57	9120					130	170	91
13C-PCB-9	4.26e+07	1.60 y	19:53	-	57.7					5000	2800	
PCB-34	2.06e+05	0.97 y	25:38	0.98	64.7		1100	1400	11.0	20	20	
PCB-23	*	* n	NotFnd	1.24	*		1100	1400	8.67	*	*	
PCB-29	1.56e+05	1.06 y	25:57	1.12	42.7		1100	1400	9.57	17	13	
PCB-26	3.80e+06	1.05 y	26:09	1.11	1050		1100	1400	9.70	400	310	
PCB-25	1.95e+06	1.07 y	26:18	1.36	439		1100	1400	7.89	180	140	
PCB-31	1.57e+07	1.09 y	26:38	1.13	4260		1100	1400	9.52	1800	1400	
PCB-28	1.72e+07	1.08 y	26:45	1.34	3940		1100	1400	8.01	1600	1300	
PCB-20/21/33	9.16e+06	1.07 y	27:20	1.18	2370		1100	1400	9.08	850	660	
PCB-22	5.07e+06	1.06 y	27:44	1.17	1330		1100	1400	9.23	470	380	
PCB-36	4.34e+06	1.08 y	28:21	1.05	1270		1100	1400	10.3	380	280	
PCB-39	*	* n	NotFnd	1.07	*		1100	1400	10.0	*	*	
PCB-38	1.51e+05	0.94 y	29:37	1.09	42.4		1100	1400	9.85	13	10	
PCB-35	1.26e+05	1.05 y	30:02	0.97	40.1		1100	1400	11.1	10	7.0	
PCB-37	1.62e+06	1.10 y	30:27	1.14	436		1100	1400	9.43	130	100	
13C-PCB-37	3.26e+07	1.08 y	30:26	1.14	10900					94	64	110

PCB-54	8.09e+04	0.79	y	25:39	0.99	28.8	1700	1100	9.77	4.3	8.1	
PCB-50	8.18e+04	0.68	y	26:46	0.74	39.2	1700	1100	13.2	4.7	9.8	
PCB-53	2.57e+06	0.77	y	27:23	0.74	1230	1700	1100	13.2	150	280	
PCB-51	7.91e+05	0.78	y	27:42	0.75	371	1700	1100	12.9	50	95	
PCB-45	2.36e+06	0.78	y	28:07	0.65	1280	1700	1100	14.9	130	260	
PCB-46	8.62e+05	0.82	y	28:35	0.62	492	1700	1100	15.7	49	93	
PCB-52/69	1.89e+07	0.77	y	29:00	0.95	6990	1700	1100	10.2	1100	2200	
PCB-73	*	*	n	NotFnd	0.85	*	1700	1100	11.4	*	*	
PCB-43/49	1.19e+07	0.78	y	29:18	0.72	5840	1700	1100	13.5	680	1300	
PCB-47	3.44e+06	0.78	y	29:30	0.91	1330	1700	1100	10.6	200	370	
PCB-48/75	3.28e+06	0.76	y	29:35	0.90	1280	1700	1100	10.7	170	360	
PCB-65	*	*	n	NotFnd	0.95	*	1700	1100	10.2	*	*	
PCB-62	*	*	n	NotFnd	0.84	*	1700	1100	11.5	*	*	
PCB-44	9.95e+06	0.77	y	30:15	0.64	5470	1700	1100	15.1	550	1000	
PCB-42/59	4.30e+06	0.78	y	30:27	0.87	1740	1700	1100	11.2	220	430	
PCB-41/64/71/72	1.11e+07	0.77	y	31:01	0.94	4180	1700	1100	10.3	560	1100	
PCB-68	1.67e+05	0.71	y	31:17	0.99	59.2	1700	1100	9.74	7.2	17	
PCB-40	1.51e+06	0.77	y	31:28	0.56	959	1700	1100	17.4	88	160	
PCB-57	9.66e+04	0.80	y	31:48	0.94	36.3	1700	1100	10.3	5.3	9.8	
PCB-67	3.80e+05	0.78	y	32:07	0.86	156	1700	1100	11.3	20	34	
PCB-58	6.21e+04	0.75	y	32:12	0.99	22.2	1700	1100	9.81	4.6	7.0	
PCB-63	4.94e+05	0.74	y	32:22	0.95	183	1700	1100	10.2	25	50	
PCB-74	4.78e+06	0.77	y	32:39	0.97	1730	1700	1100	9.95	260	500	
PCB-61/70	1.06e+07	0.78	y	32:50	1.03	3660	1700	1100	9.45	560	1100	
PCB-66/76	8.86e+06	0.77	y	33:03	0.99	3160	1700	1100	9.82	400	760	
PCB-80	*	*	n	NotFnd	1.07	*	1700	1100	9.06	*	*	
PCB-55	3.36e+05	0.82	y	33:33	0.97	123	1700	1100	10.0	13	22	
13C-PCB-54	2.84e+07	0.78	y	25:38	1.12	9630				2800	4400	96
PCB-104	5.02e+06	1.60	y	30:06	1.06	2280	300	460	3.69	2400	950	
PCB-96	1.38e+05	1.70	y	31:18	0.99	67.2	300	460	3.96	63	24	
PCB-103	1.92e+05	1.73	y	31:48	0.82	112	300	460	4.75	85	35	
PCB-100	8.09e+04	1.51	y	32:07	0.82	47.5	300	460	4.78	31	12	
PCB-94	5.97e+04	1.53	y	32:35	0.68	42.0	300	460	5.71	23	14	
PCB-98/102	*	*	n	NotFnd	0.87	*	300	460	4.50	*	*	
PCB-95	8.70e+06	1.61	y	33:05	0.74	5680	300	460	5.30	3500	1500	
PCB-93	*	*	n	NotFnd	0.70	*	300	460	5.61	*	*	
PCB-88/91	8.45e+05	1.60	y	33:28	0.79	513	300	460	4.94	570	240	
PCB-121	8.50e+06	1.61	y	33:33	0.93	4410	300	460	4.21	3600	1400	
13C-PCB-104	2.08e+07	1.57	y	30:05	0.82	9650				6800	5400	96
13C-PCB-28	3.74e+07	1.05	y	26:44	1.38	10400				140	95	100
13C-PCB-52	2.62e+07	0.77	y	28:59	-	52.7				2200	3600	
PCB-56/60	5.05e+06	0.77	y	34:01	1.06	1610	1500	1600	13.8	270	330	
PCB-79	1.31e+05	0.78	y	35:03	1.08	40.7	1500	1600	13.5	7.5	8.8	
PCB-78	7.52e+06	0.78	y	35:43	1.03	2480	1500	1600	14.2	400	500	
PCB-81	2.50e+05	0.82	y	36:13	1.07	79.8	1500	1600	13.6	12	13	
13C-PCB-81	2.94e+07	0.80	y	36:12	1.02	11600				2100	3500	120
PCB-77	4.21e+05	0.78	y	36:49	0.99	143	1500	1600	14.9	20	23	
13C-PCB-77	2.97e+07	0.81	y	36:46	1.01	11900				2100	3500	120

PCB-155	1.07e+07	1.29	y	34:16	1.01	4820	300	320	3.20	4400	3200	
PCB-150	*	*	n	NotFnd	0.91	*	300	320	3.54	*	*	
PCB-152	*	*	n	NotFnd	0.90	*	300	320	3.58	*	*	
PCB-145	*	*	n	NotFnd	0.89	*	300	320	3.63	*	*	
PCB-136	1.18e+06	1.30	y	36:39	0.93	577	300	320	3.48	490	340	
PCB-148	*	*	n	NotFnd	0.64	*	300	320	5.02	*	*	
PCB-154	1.41e+05	1.38	y	37:13	0.78	81.7	300	320	4.13	58	35	
13C-PCB-155	2.21e+07	1.30	y	34:15	1.02	8730				7000	4700	87
13C-PCB-111	2.91e+07	1.61	y	36:21	1.11	10500				3400	2900	110
13C-PCB-101	2.49e+07	1.59	y	34:41	-	55.0				3100	2600	
PCB-84/92	4.84e+06	1.58	y	34:21	0.79	2170	3400	2800	34.6	180	140	
PCB-89	1.46e+05	1.37	y	34:32	0.73	71.4	3400	2800	37.7	5.3	4.3	
PCB-90/101	1.06e+07	1.57	y	34:42	0.85	4440	3400	2800	32.4	400	300	
PCB-113	*	*	n	NotFnd	1.01	*	3400	2800	27.2	*	*	
PCB-99	4.63e+06	1.54	y	35:01	0.88	1870	3400	2800	31.1	170	130	
PCB-119	4.01e+05	1.49	y	35:28	1.08	132	3400	2800	25.3	16	12	
PCB-83/112	5.48e+05	1.58	y	35:37	0.84	232	3400	2800	32.6	21	16	
PCB-109	*	*	n	NotFnd	1.01	*	3400	2800	27.0	*	*	
PCB-97	2.65e+06	1.52	y	35:57	0.92	1020	3400	2800	29.7	98	80	
PCB-86	*	*	n	NotFnd	0.82	*	3400	2800	33.6	*	*	
PCB-87/117/125	3.48e+06	1.53	y	36:13	0.95	1300	3400	2800	28.8	130	98	
PCB-111/115	1.63e+05	1.60	y	36:21	1.16	49.9	3400	2800	23.6	8.6	6.4	
PCB-85/116	1.30e+06	1.53	y	36:29	0.89	522	3400	2800	30.9	45	34	
PCB-120	*	*	n	NotFnd	1.12	*	3400	2800	24.5	*	*	
PCB-110	1.11e+07	1.56	y	36:50	1.07	3700	3400	2800	25.7	410	310	
PCB-82	7.22e+05	1.56	y	37:27	0.63	410	3400	2800	43.8	26	19	
PCB-124	2.67e+05	1.54	y	38:06	1.04	91.2	720	870	6.79	41	23	
PCB-107/108	5.41e+05	1.61	y	38:16	0.99	194	720	870	7.14	88	48	
PCB-123	9.05e+04	1.69	y	38:24	1.22	27.7	720	870	5.95	21	9.3	
13C-PCB-123	2.68e+07	1.53	y	38:23	1.07	10400				540	700	100
PCB-118/106	5.91e+06	1.57	y	38:34	0.96	2090	720	870	7.28	910	490	
13C-PCB-118	2.94e+07	1.67	y	38:34	1.18	10300				570	700	100
PCB-114	1.61e+05	1.47	y	39:12	1.07	53.5	720	870	6.62	22	13	
13C-PCB-114	2.81e+07	1.61	y	39:10	1.11	10500				550	710	100
PCB-122	7.97e+04	1.64	y	39:17	0.96	29.6	720	870	7.38	13	6.8	
PCB-105	1.80e+06	1.61	y	40:01	1.02	634	720	870	6.91	290	150	
13C-PCB-105	2.79e+07	1.64	y	40:00	1.09	10700				560	700	110
PCB-127	*	*	n	NotFnd	0.89	*	720	870	7.96	*	*	
PCB-126	*	*	n	NotFnd	1.05	*	720	870	8.51	*	*	
13C-PCB-126	2.56e+07	1.65	y	42:08	0.90	11800				440	550	120
PCB-151	1.38e+06	1.28	y	37:50	0.81	645	590	600	7.16	280	210	
PCB-135	8.05e+05	1.19	y	38:01	0.80	381	590	600	7.25	150	120	
PCB-144	2.58e+05	1.33	y	38:08	0.85	115	590	600	6.84	54	45	
PCB-147	1.16e+05	1.25	y	38:16	0.95	46.7	590	600	6.17	24	21	
PCB-139/149	4.83e+06	1.26	y	38:29	0.91	2010	590	600	6.37	950	740	
PCB-140	4.69e+04	1.21	y	38:41	0.91	19.6	590	600	6.41	8.9	7.1	
PCB-134/143	3.34e+05	1.21	y	39:07	0.83	152	590	600	6.99	58	50	
PCB-131/133	1.35e+05	1.27	y	39:24	0.85	60.3	590	600	6.84	28	23	
PCB-142	7.70e+06	1.23	y	39:32	0.73	4010	590	600	7.98	1500	1200	
PCB-146/165	8.80e+05	1.25	y	39:45	1.00	334	590	600	5.81	170	130	
PCB-132/161	1.57e+06	1.24	y	40:00	0.97	618	590	600	6.01	320	260	
PCB-153	4.85e+06	1.23	y	40:08	0.90	2060	590	600	6.49	830	680	
PCB-168	*	*	n	NotFnd	1.10	*	590	600	5.32	*	*	
PCB-141	7.38e+05	1.22	y	40:51	0.84	334	590	600	6.92	140	110	
PCB-137	1.86e+05	1.12	y	41:12	0.91	78.0	590	600	6.43	32	29	

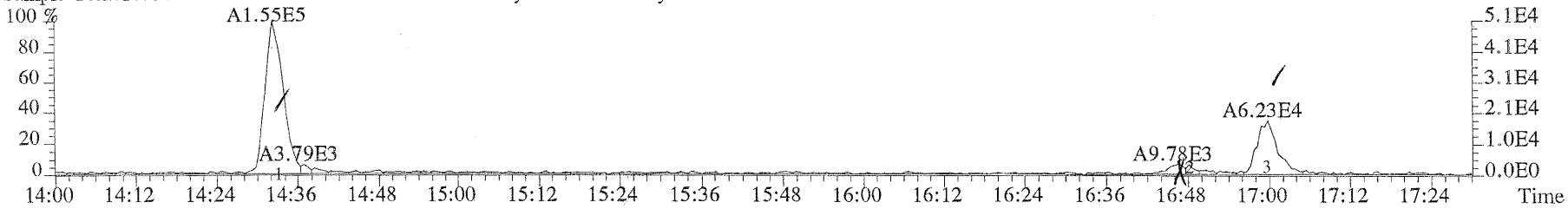
PCB-130	2.39e+05	1.29	y	41:19	0.64	141		590	600	9.05	46	37	
PCB-138/163/164	4.47e+06	1.23	y	41:38	1.10	1550		590	600	5.32	760	620	
PCB-158/160	5.59e+05	1.23	y	41:52	1.09	195		590	600	5.35	100	75	
PCB-129	1.62e+05	1.08	y	42:06	0.69	88.7		590	600	8.39	27	23	
PCB-166	*	*	n	NotFnd	1.07	*		590	600	5.45	*	*	
PCB-159	5.14e+04	1.11	y	42:53	1.06	18.4	J	590	600	5.48	9.0	8.1	
PCB-128/162	5.81e+05	1.28	y	43:07	0.92	240		590	600	6.34	110	82	
PCB-167	1.34e+05	1.20	y	43:30	0.93	53.4		590	600	6.33	24	20	
13C-PCB-167	2.70e+07	1.28	y	43:29	1.09	10300					1000	1200	100
PCB-156	3.10e+05	1.24	y	44:44	0.97	122		590	600	5.94	60	48	
13C-PCB-156	2.63e+07	1.25	y	44:43	1.01	10800					1000	1200	110
PCB-157	6.23e+04	1.27	y	44:59	0.97	23.5		590	600	6.14	12	9.2	
13C-PCB-157	2.72e+07	1.27	y	44:59	1.04	10800					1000	1200	110
PCB-169	*	*	n	NotFnd	0.92	*		590	600	6.19	*	*	
13C-PCB-169	2.45e+07	1.26	y	46:51	0.87	11700					1100	1300	120
PCB-188	*	*	n	NotFnd	1.07	*		350	430	3.37	*	*	
13C-PCB-188	2.49e+07	1.09	y	39:45	1.14	9040					4000	6600	90
PCB-184	1.71e+07	1.05	y	40:11	1.21	6050		350	430	2.79	5200	4100	
PCB-179	5.27e+05	1.00	y	40:56	1.17	193		350	430	2.89	160	120	
PCB-176	1.58e+05	0.91	y	41:22	1.12	60.4		350	430	3.01	41	42	
PCB-186	*	*	n	NotFnd	1.12	*		350	430	3.00	*	*	
PCB-178	1.57e+05	1.12	y	42:25	0.82	81.9		350	430	4.13	45	42	
PCB-175	3.28e+04	1.09	y	42:44	0.87	16.1	J	350	430	3.89	9.7	7.4	
PCB-182/187	9.06e+05	1.03	y	42:54	0.92	422		350	430	3.68	270	210	
PCB-183	3.95e+05	1.04	y	43:12	0.91	185		350	430	3.69	130	90	
PCB-185	6.46e+04	1.19	y	43:52	0.84	32.8		350	430	4.01	25	17	
PCB-174	5.92e+05	1.07	y	44:12	0.93	272		350	430	3.63	170	130	
PCB-181	*	*	n	NotFnd	0.72	*		350	430	4.67	*	*	
PCB-177	3.16e+05	1.04	y	44:26	0.76	177		350	430	4.42	100	81	
PCB-171	1.54e+05	1.13	y	44:44	0.80	81.4		350	430	4.19	47	36	
PCB-173	*	*	n	NotFnd	0.73	*		350	430	4.60	*	*	
PCB-172	2.78e+05	1.12	y	45:31	0.75	158		350	430	4.47	86	55	
PCB-192	1.02e+07	1.06	y	45:42	0.97	4500		350	430	3.47	3600	2700	
PCB-180	1.07e+06	1.03	y	45:52	0.96	473		350	430	3.50	350	270	
PCB-193	8.90e+04	1.14	y	46:03	1.06	35.8		350	430	3.18	26	21	
PCB-191	2.37e+04	0.98	y	46:17	1.02	9.95	J	350	430	3.32	8.8	7.1	
PCB-170	3.31e+05	1.11	y	47:11	0.70	203		350	430	4.85	120	91	
PCB-190	9.05e+04	1.00	y	47:21	0.95	40.7		350	430	3.55	28	26	
PCB-189	*	*	n	NotFnd	1.04	*		350	430	2.98	*	*	
13C-PCB-189	2.20e+07	1.07	y	48:32	0.85	10700					4600	7800	110
PCB-202	4.13e+04	0.95	y	44:53	0.90	23.7		290	340	4.04	14	12	
PCB-201	*	*	n	NotFnd	0.93	*		290	340	3.89	*	*	
PCB-204	1.59e+07	0.89	y	45:29	0.85	9700		290	340	4.29	6200	6100	
PCB-197	1.41e+05	0.92	y	45:45	0.92	79.4		290	340	3.96	54	54	
PCB-200	*	*	n	NotFnd	0.88	*		290	340	4.12	*	*	
PCB-198	*	*	n	NotFnd	0.56	*		290	340	6.51	*	*	
PCB-199	1.16e+05	0.88	y	47:47	0.68	88.0		290	340	5.32	51	49	
PCB-196/203	1.36e+05	0.91	y	48:02	0.67	104		290	340	5.39	64	59	
13C-PCB-202	1.93e+07	0.91	y	44:53	0.92	8730					5700	6700	87
13C-PCB-178	1.74e+07	1.07	y	42:23	0.80	9040					2600	4400	90
13C-PCB-138	2.41e+07	1.28	y	41:37	-	58.8					1000	1200	

FAL ID: 10398-005-0001-SA Filename: 31JAN17Z Sam:9 Acquired: 31-JAN-17 20:58:58 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR-CB-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

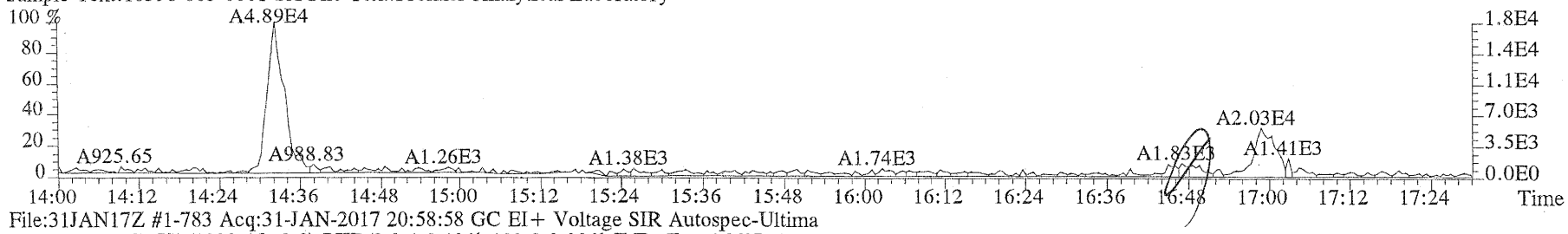
PCB-195	4.92e+04	0.85	y	49:09	0.78	26.0		420	440	4.15	17	19	
PCB-194	1.18e+05	0.90	y	49:58	0.83	58.5		420	440	3.90	43	44	
PCB-205	*	*	n	NotFnd	1.07	*		420	440	3.03	*	*	
13C-PCB-205	2.41e+07	0.92	y	50:13	1.19	10100					6400	5700	100
PCB-208	*	*	n	NotFnd	0.91	*		710	740	5.38	*	*	
13C-PCB-208	2.38e+07	0.79	y	49:15	1.31	9060					6100	9500	91
PCB-207	9.70e+04	1.36	y	49:35	1.04	45.4		710	740	5.99	22	16	
PCB-206	2.74e+04	1.47	y	51:30	0.93	17.1	J	710	740	8.72	6.1	3.2	
13C-PCB-206	1.72e+07	0.79	y	51:29	0.94	9160					3700	5700	92
PCB-209	9.59e+04	1.11	y	52:45	0.99	43.6		290	250	2.47	50	47	
13C-PCB-209	2.22e+07	1.19	y	52:43	1.29	8590					9400	9500	86
13C-PCB-194	2.01e+07	0.94	y	49:58	-	63.6					6000	5000	

Analyst: _____ Date: 2/3/17

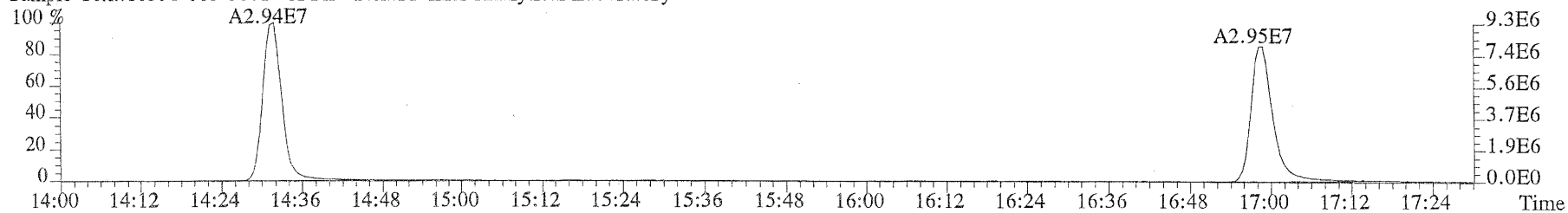
File:31JAN17Z #1-783 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



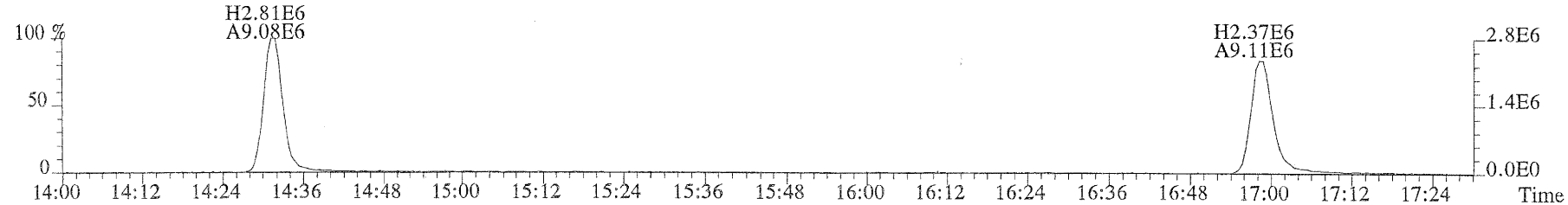
File:31JAN17Z #1-783 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



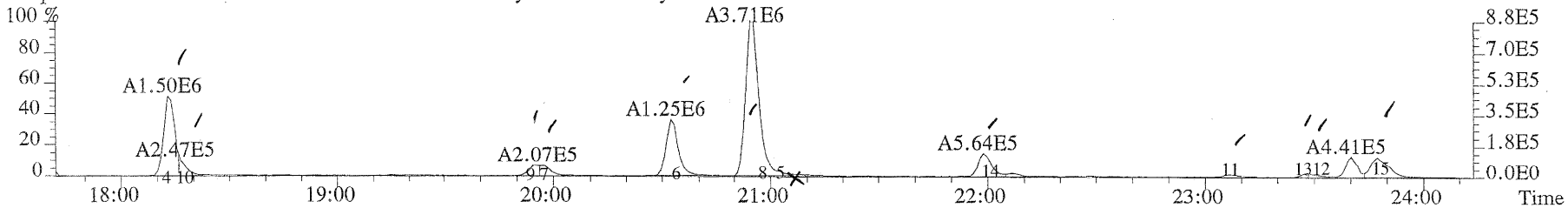
File:31JAN17Z #1-783 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



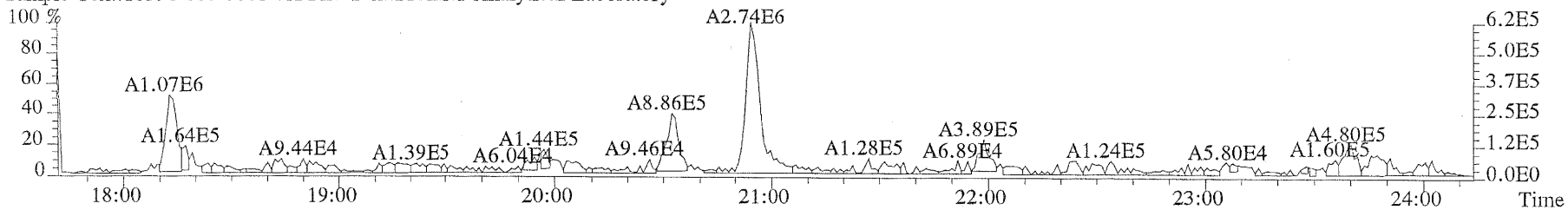
File:31JAN17Z #1-783 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



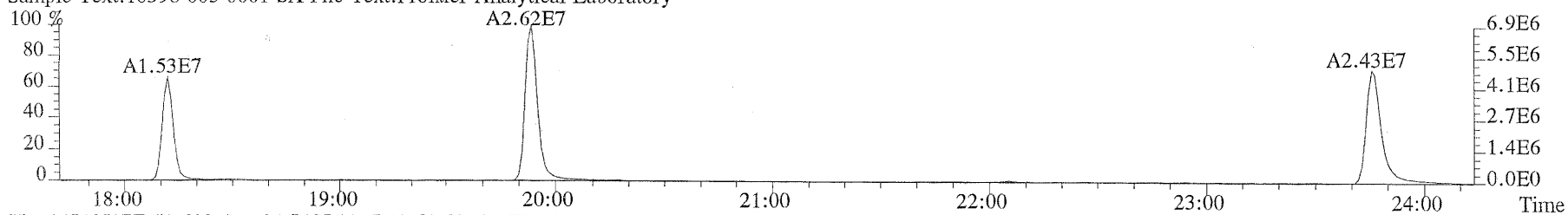
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



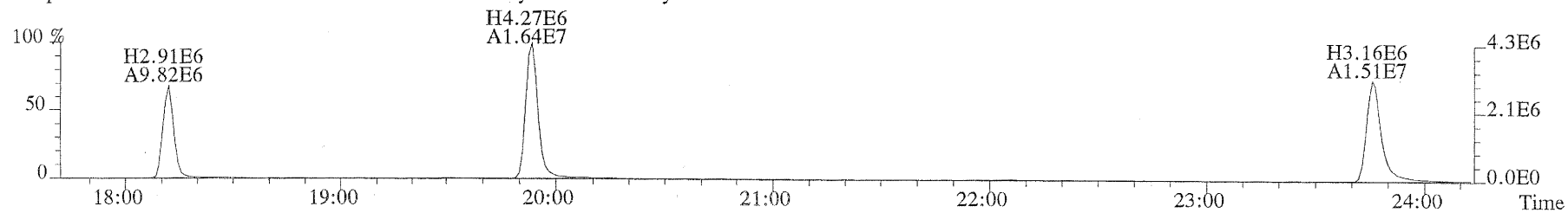
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



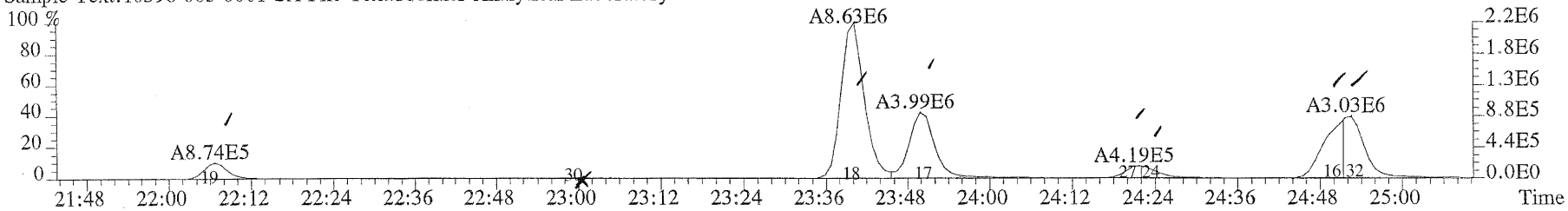
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



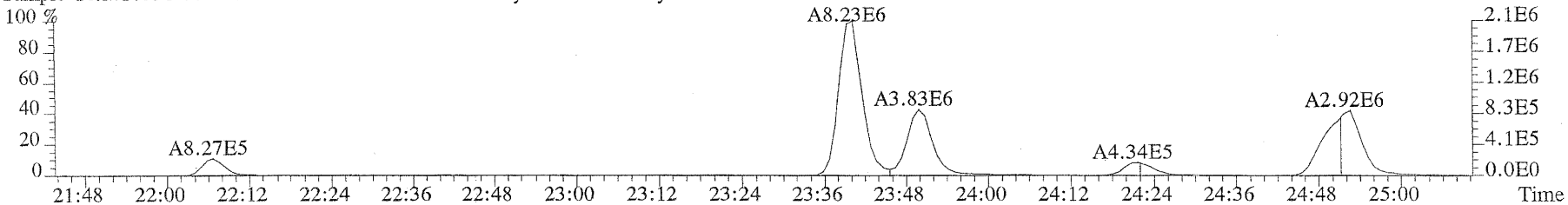
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



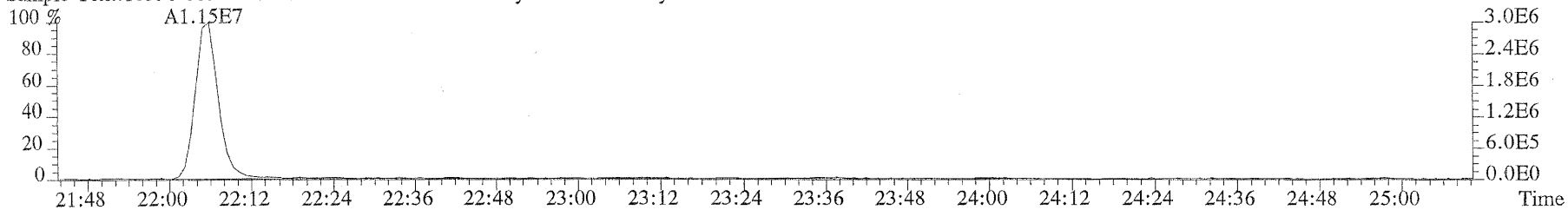
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



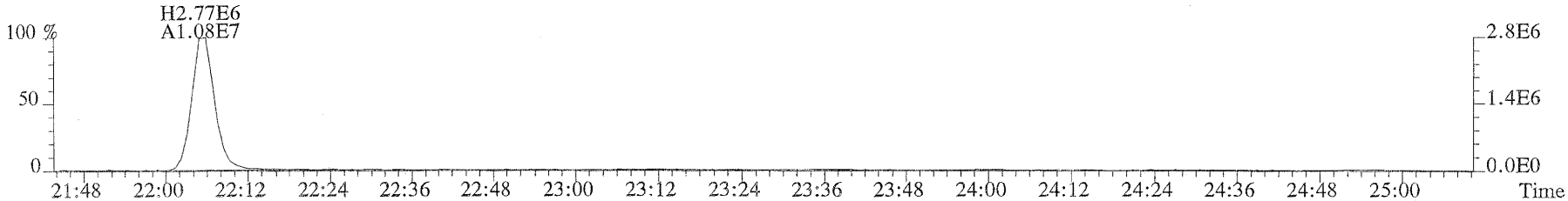
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



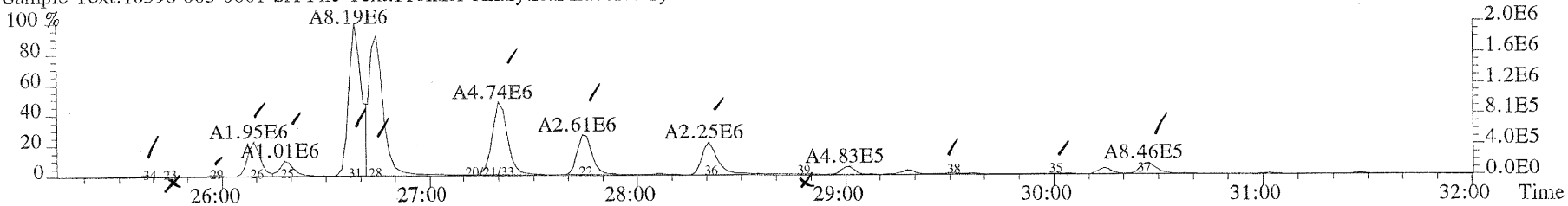
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



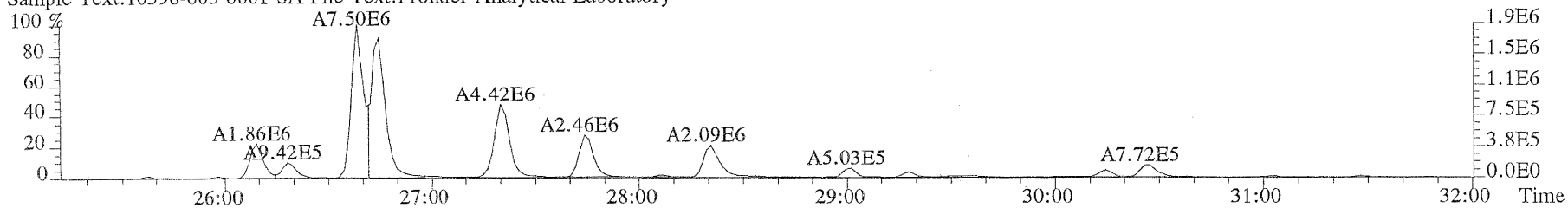
File:31JAN17Z #1-509 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



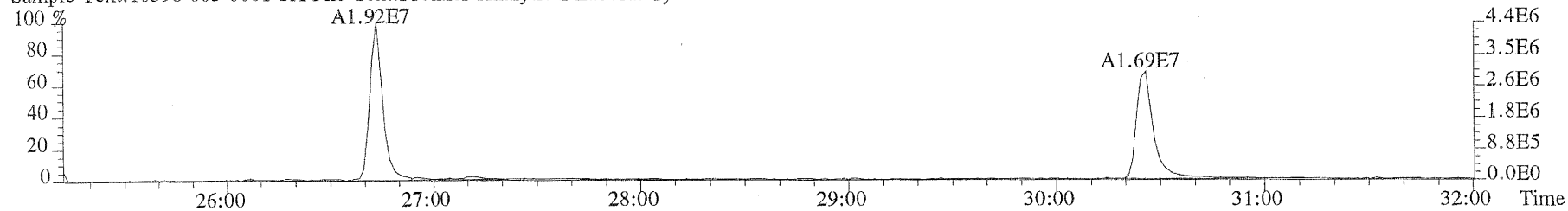
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



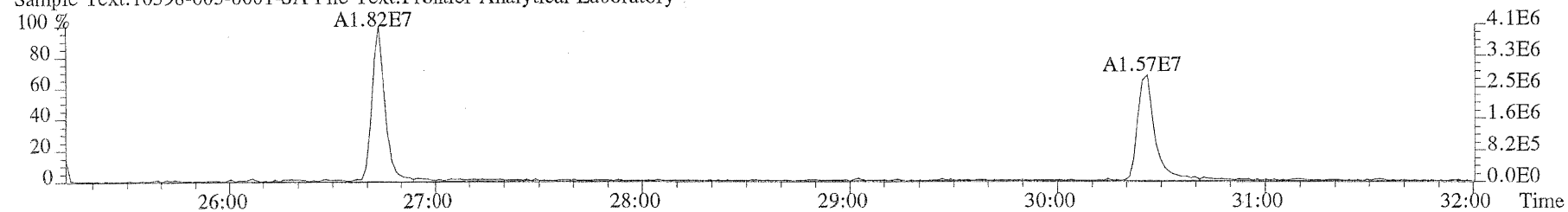
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



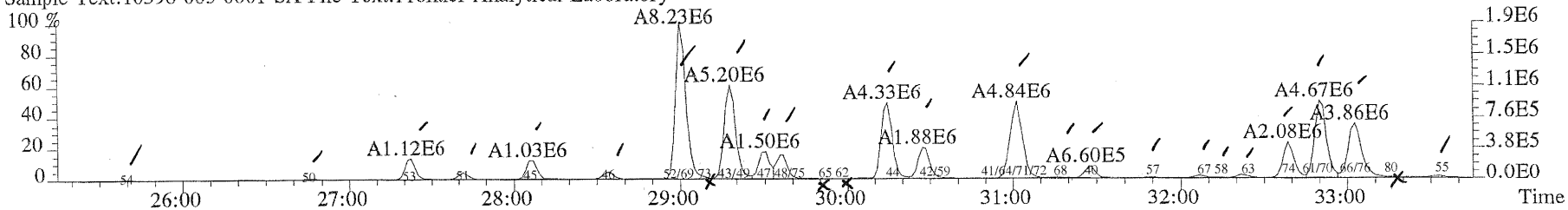
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



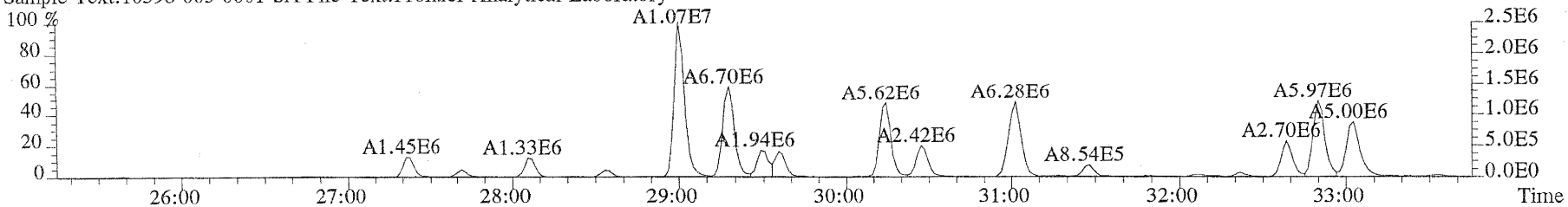
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



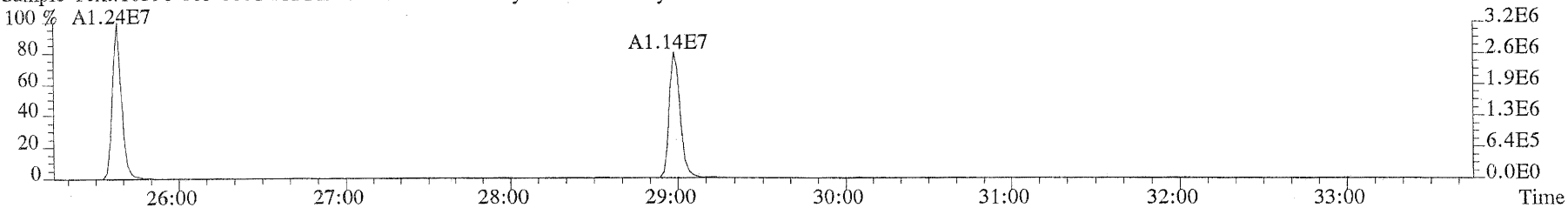
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



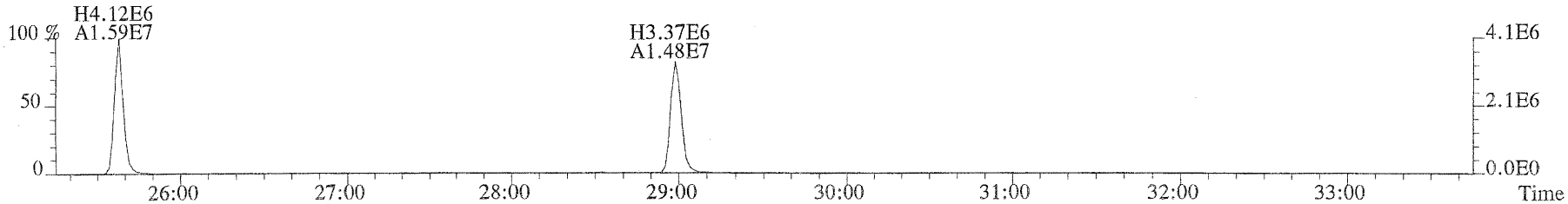
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



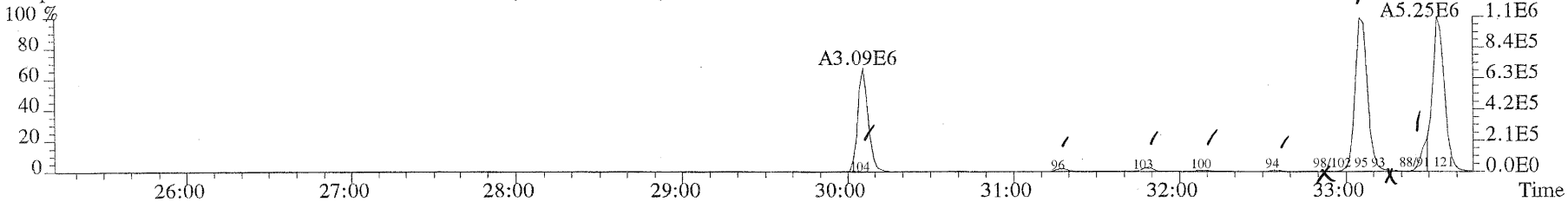
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



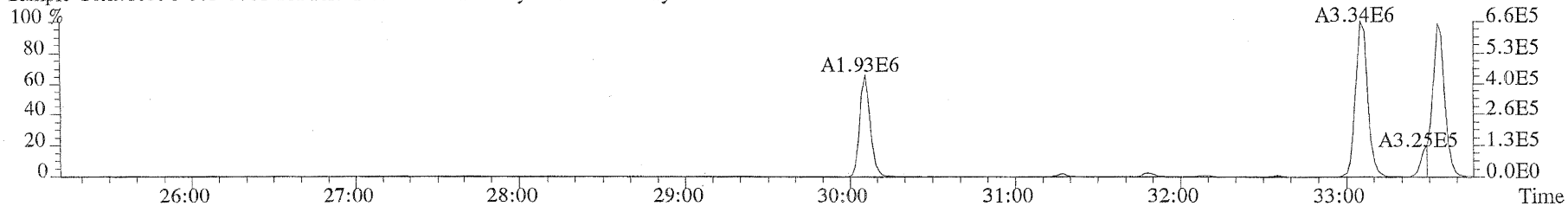
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



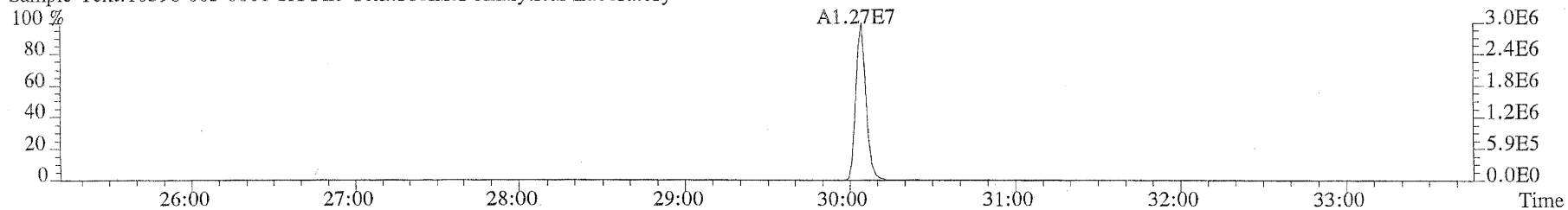
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



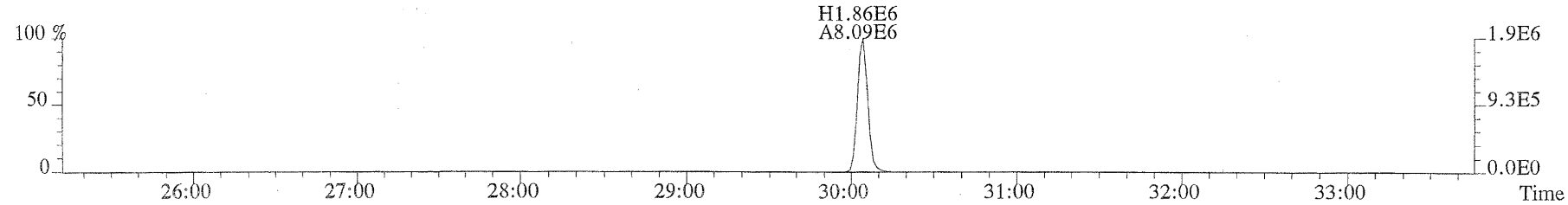
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



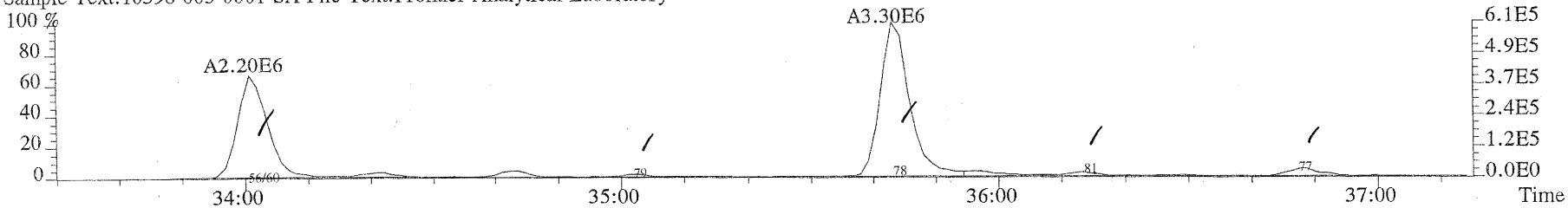
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



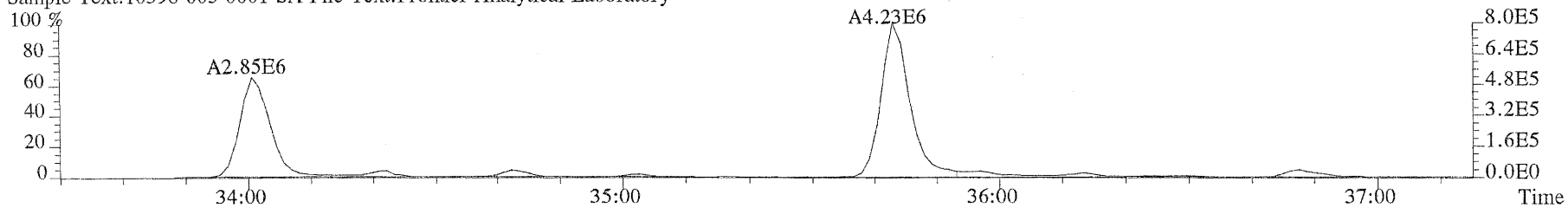
File:31JAN17Z #1-407 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



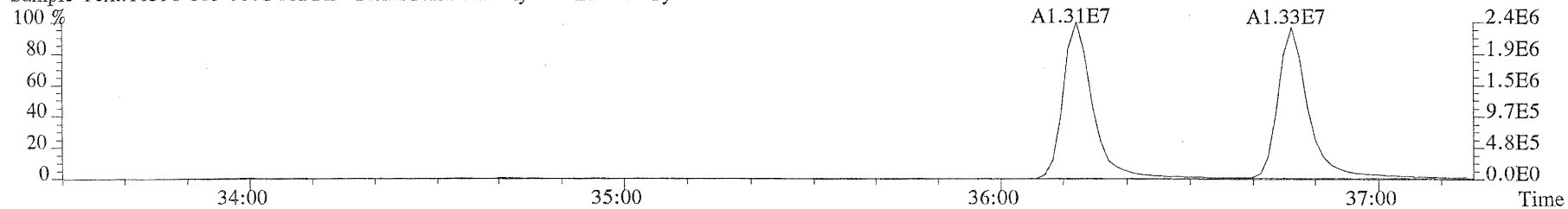
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



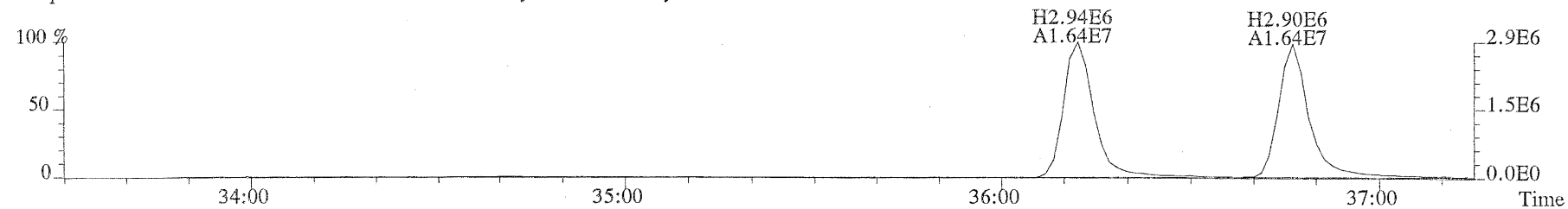
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



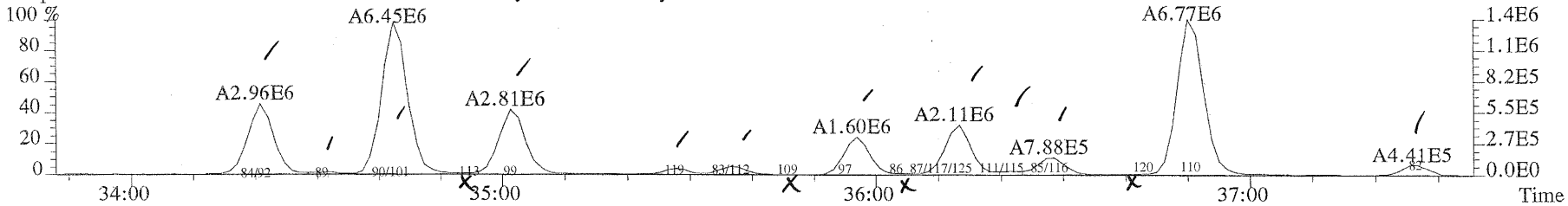
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



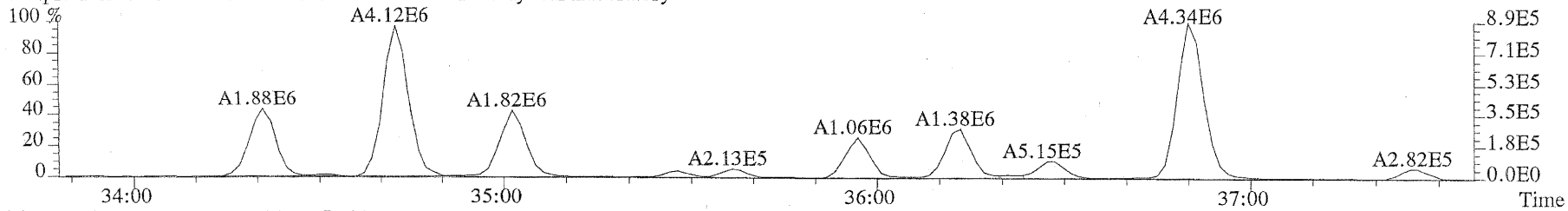
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



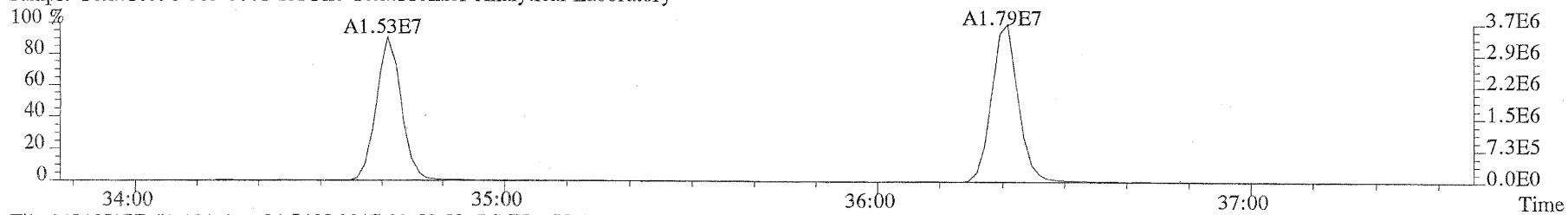
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



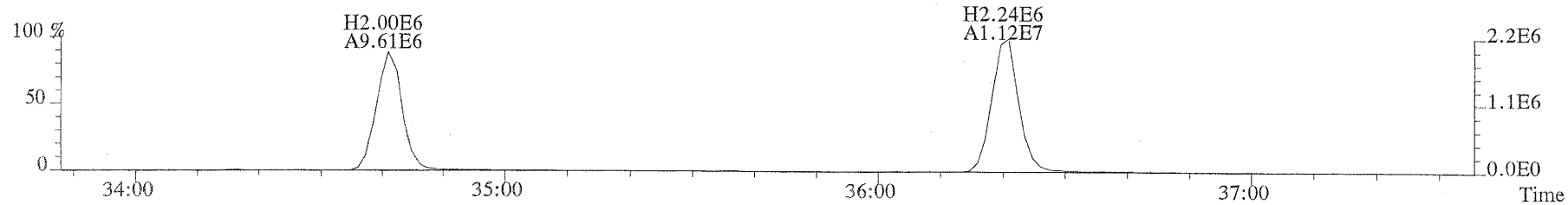
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



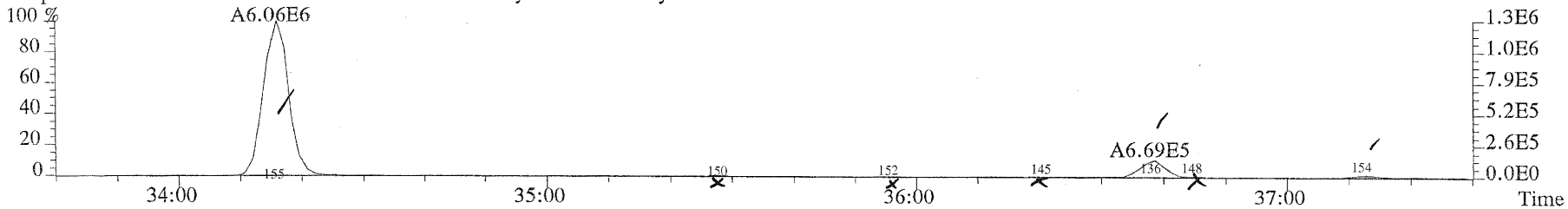
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



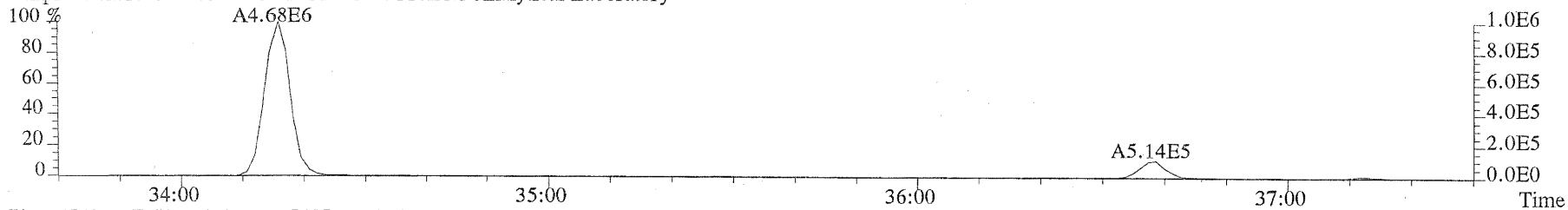
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



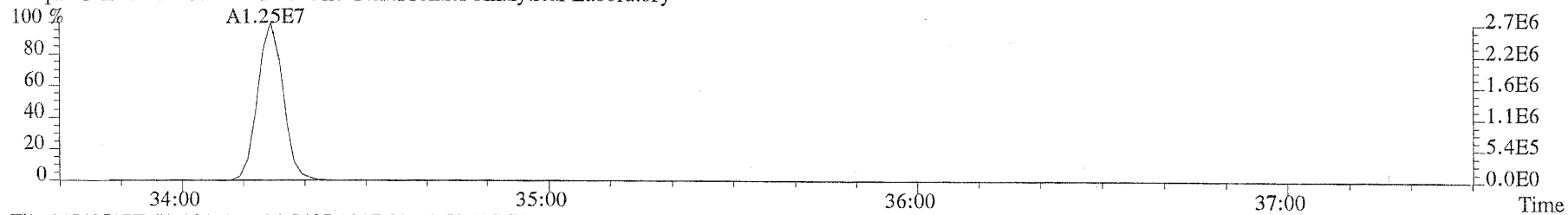
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



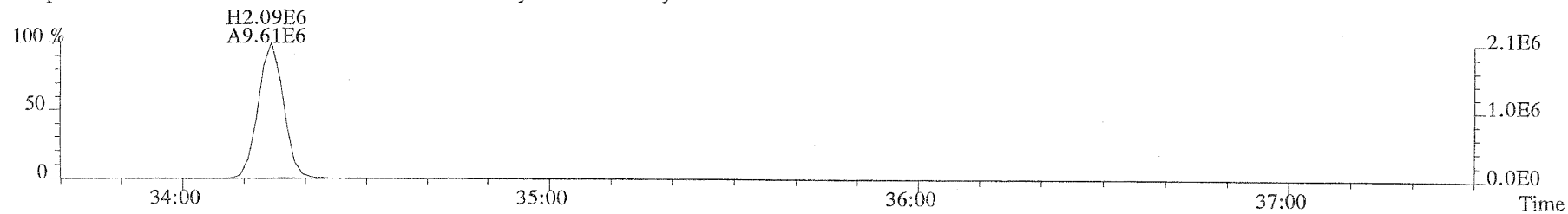
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



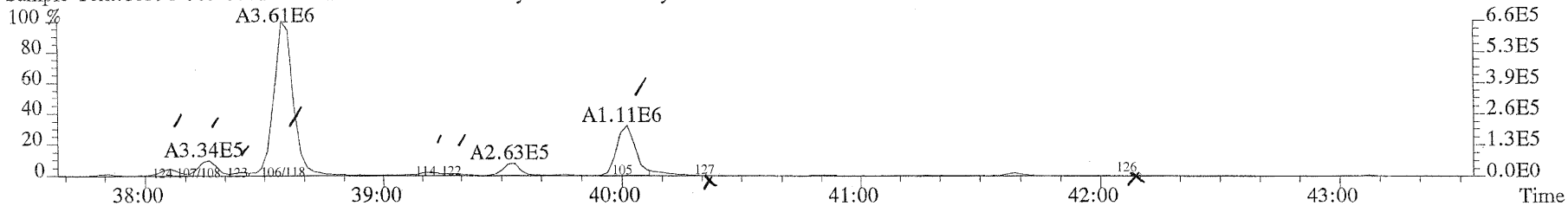
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



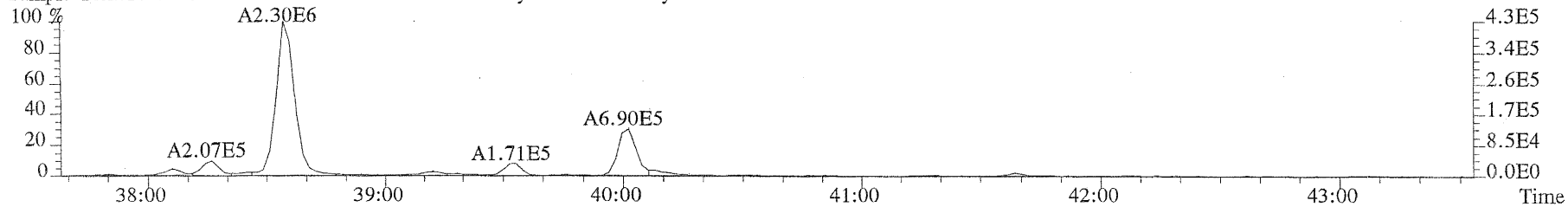
File:31JAN17Z #1-181 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-413 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-413 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



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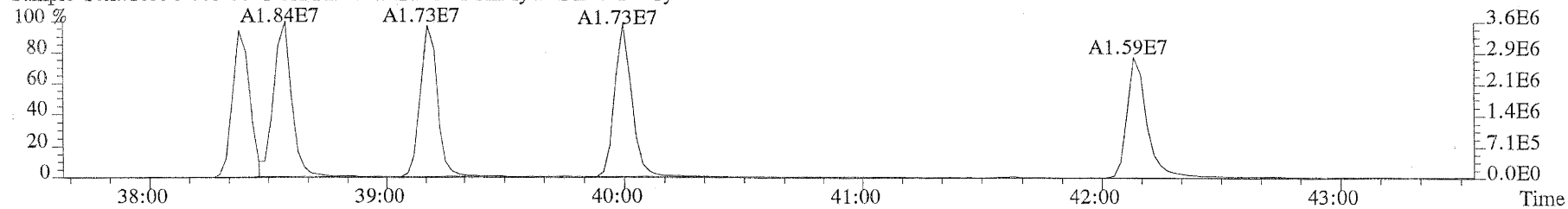
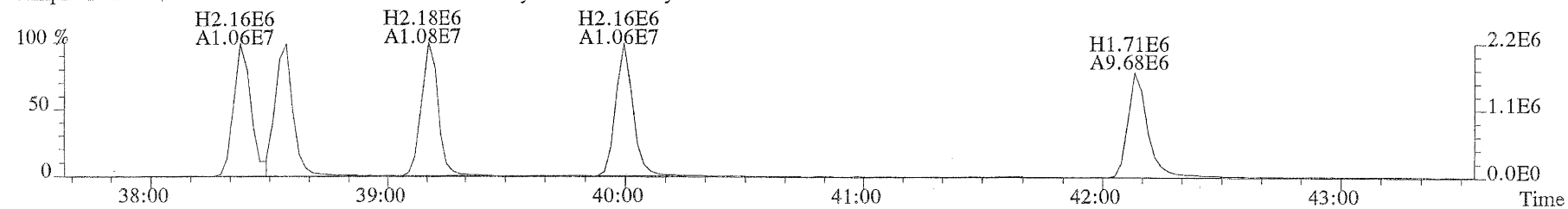
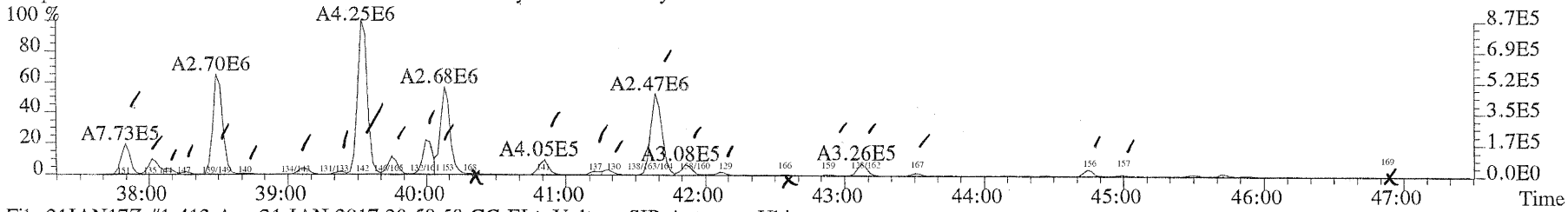
337.9207 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



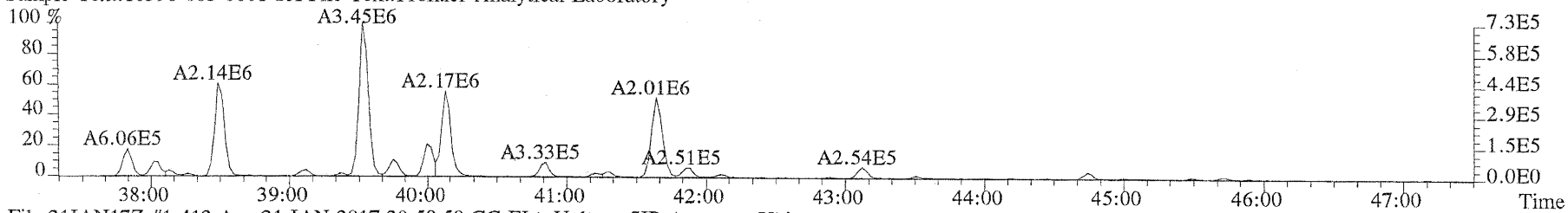
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



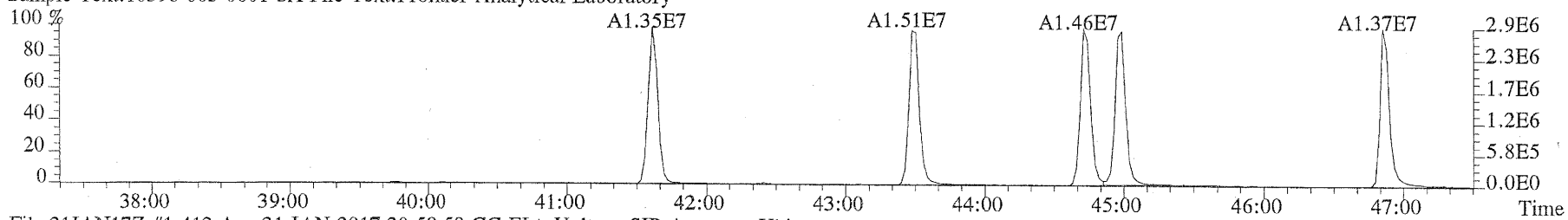
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



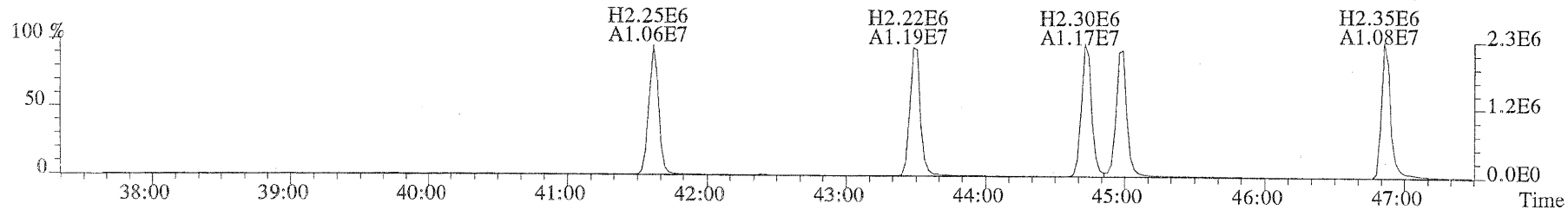
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



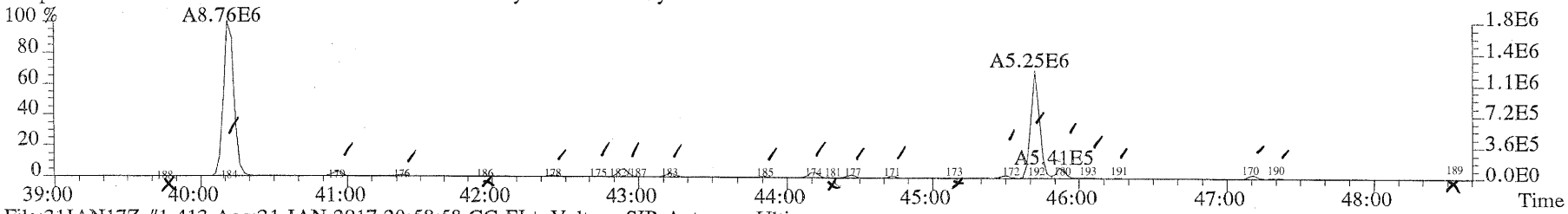
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



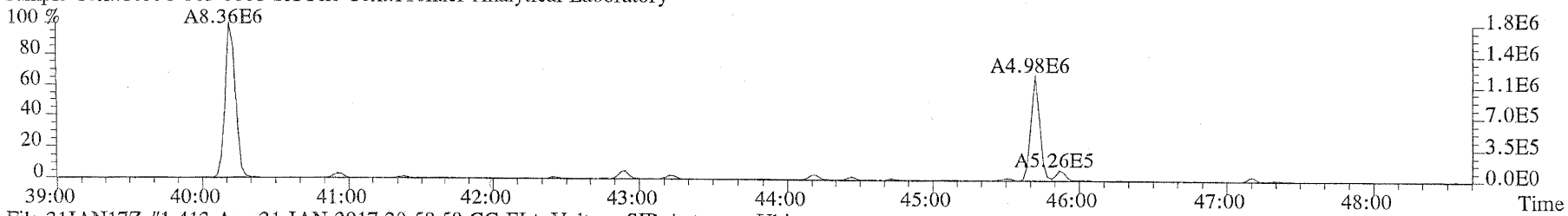
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



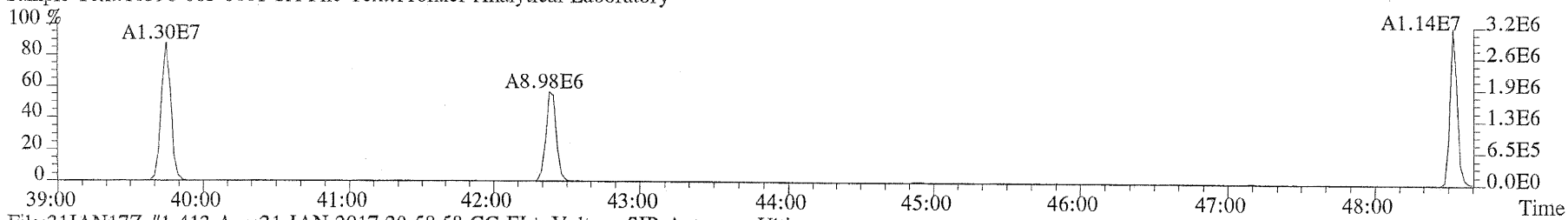
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



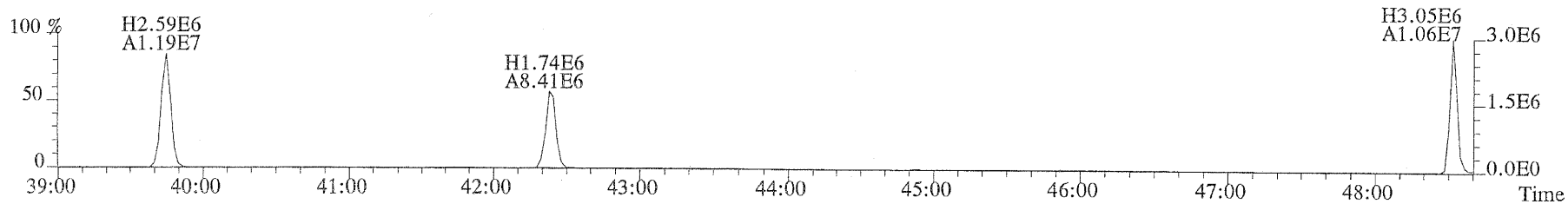
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



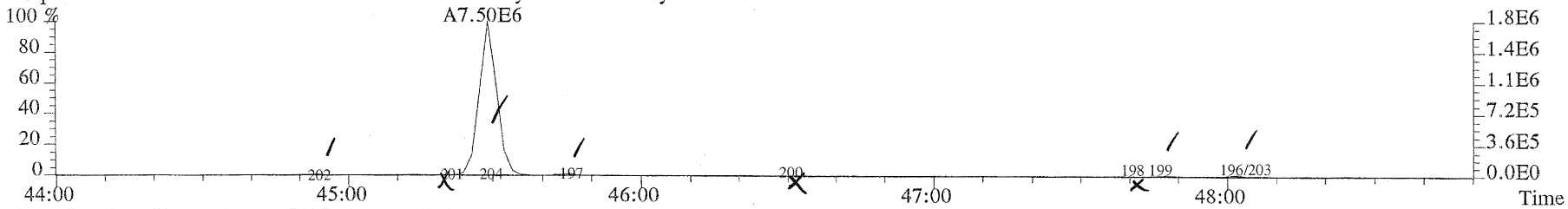
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



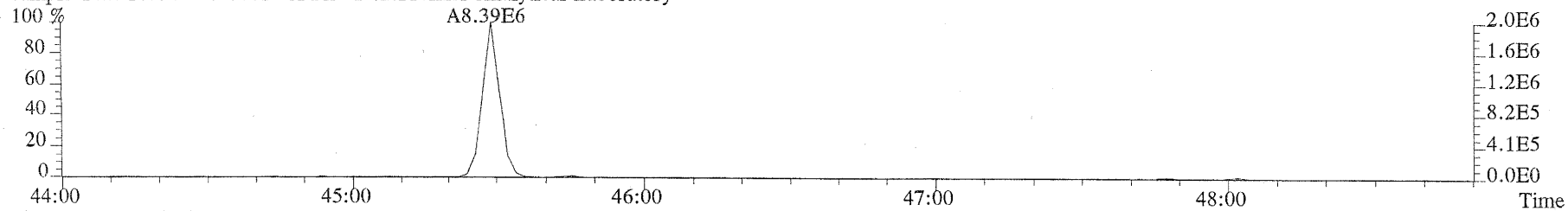
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



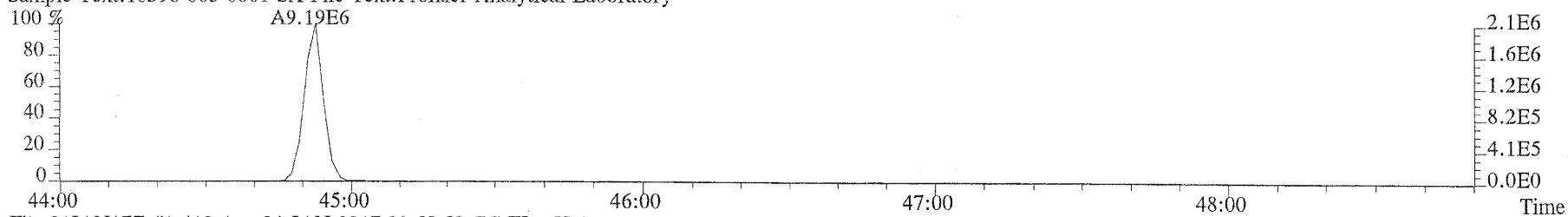
File:31JAN17Z #1-413 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-413 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-413 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



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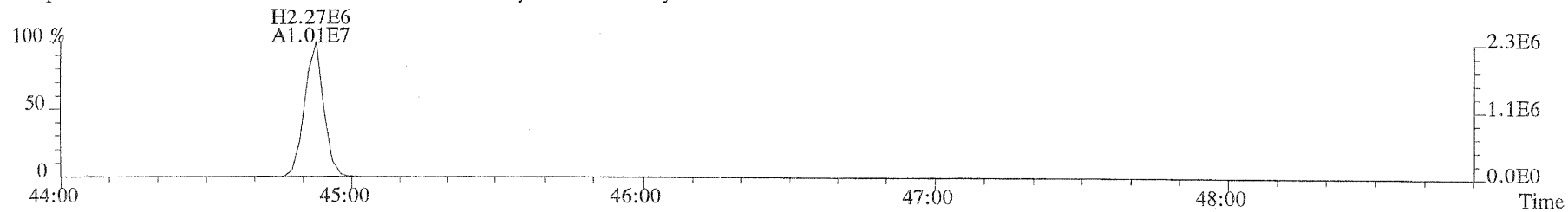
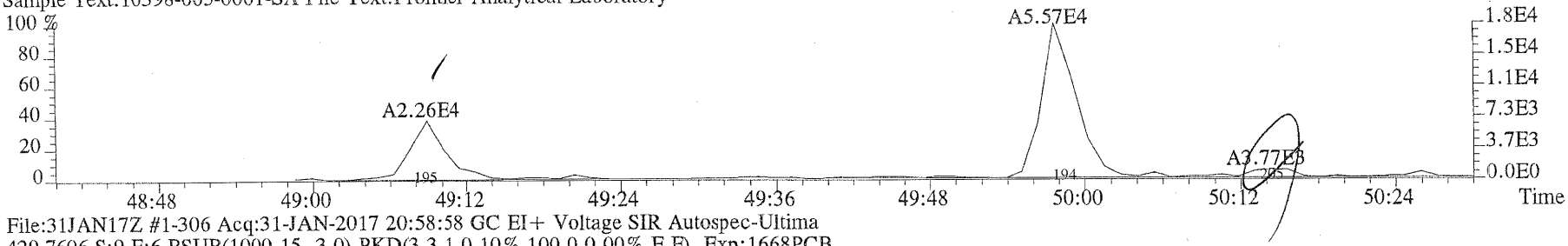
441.8008 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



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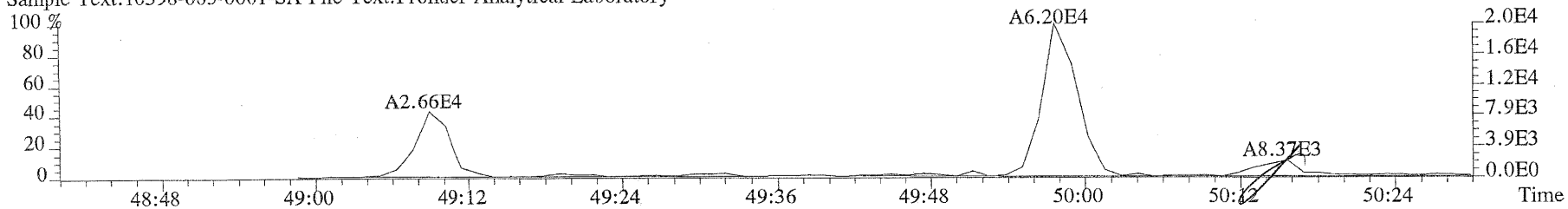
429.7606 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



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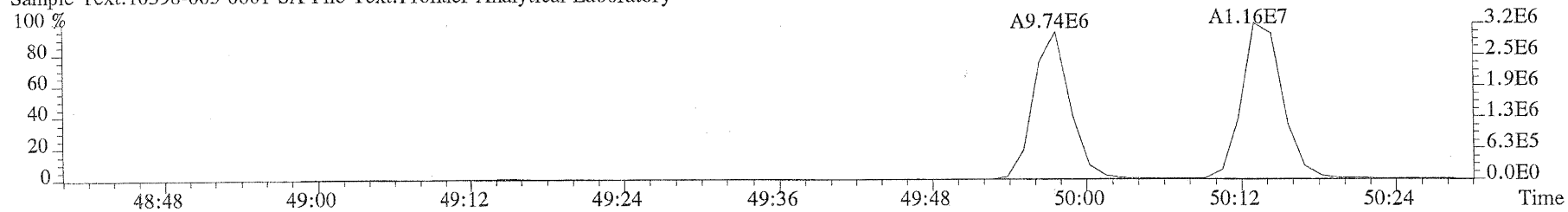
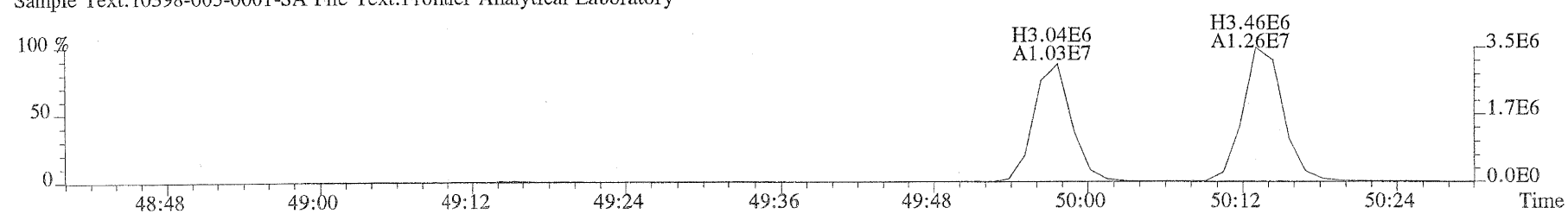
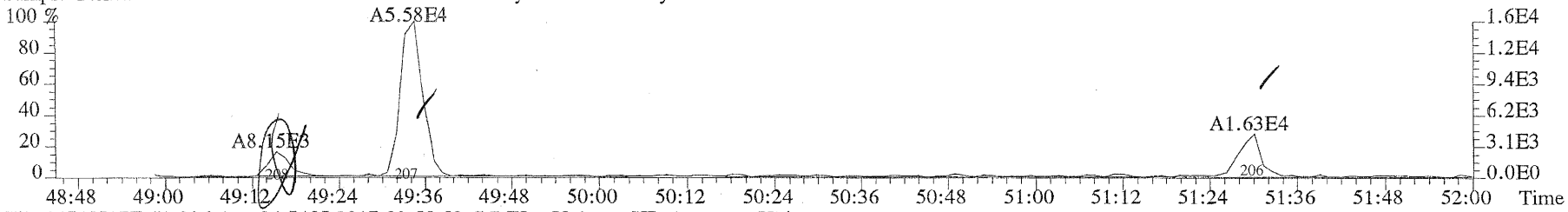
439.8038 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



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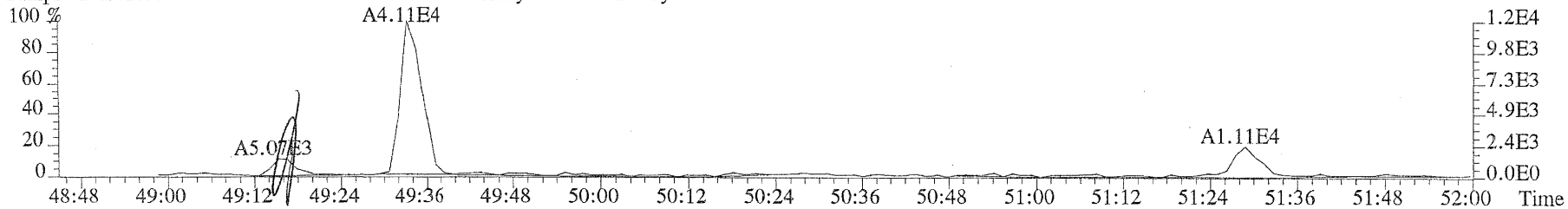
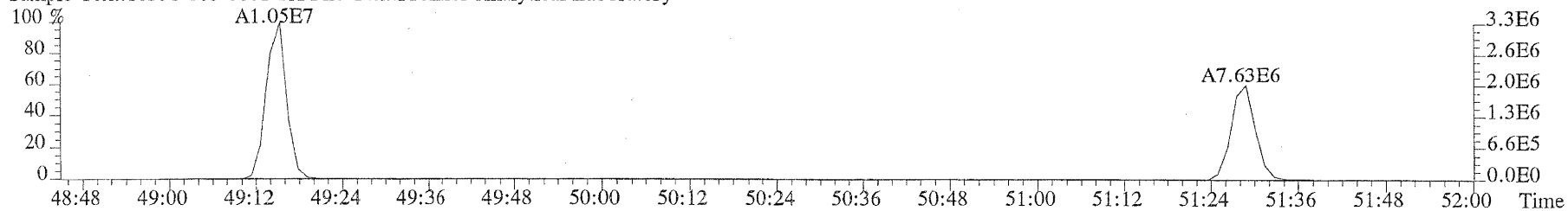
465.7187 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



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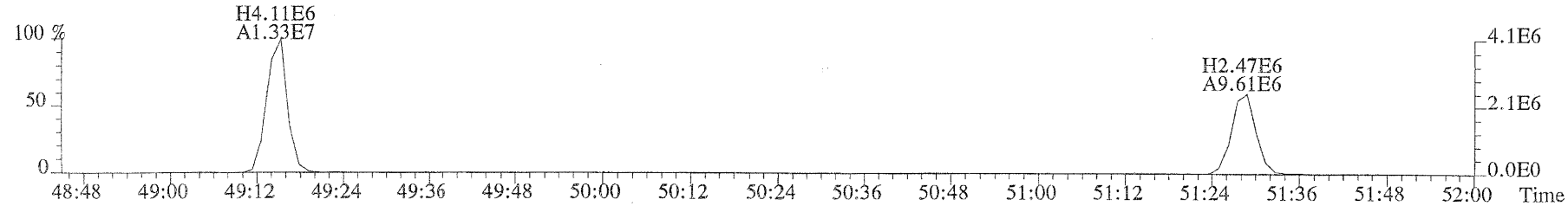
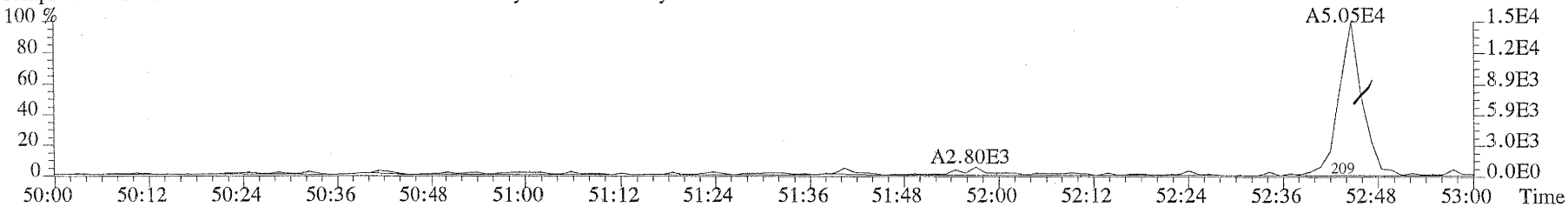
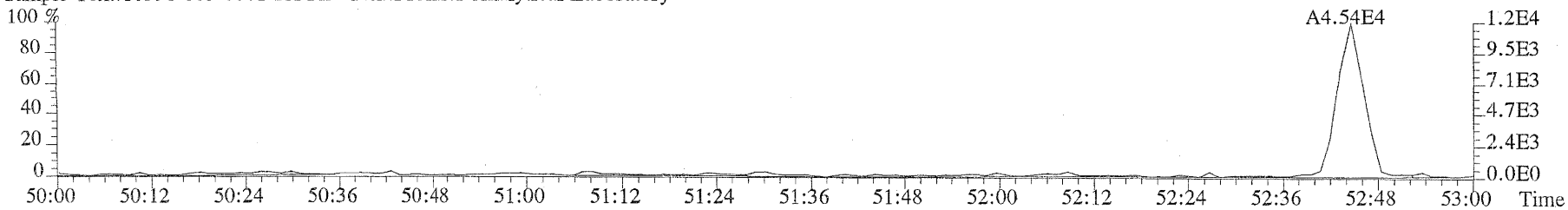
475.7619 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



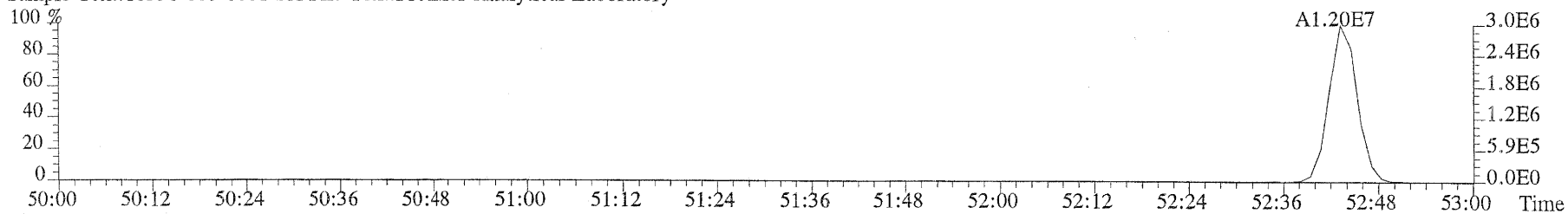
File:31JAN17Z #1-306 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



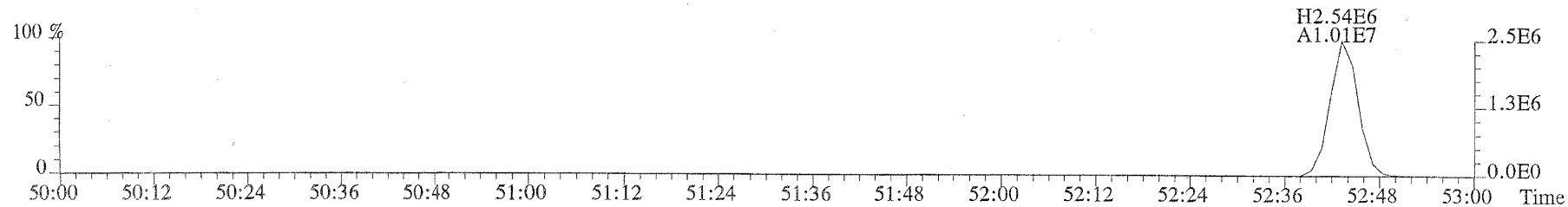
File:31JAN17Z #1-306 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 20:58:58 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-005-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10398-006-0001-SA Filename: 31JAN17Z Sam:10 Acquired: 31-JAN-17 21:57:17 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR-CC-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	S/N-1	S/N-2	Rec
PCB-1	1.13e+05	2.95 y	14:33	0.98	30.4		1100	950	4.41	25	10	
13C-PCB-1	3.79e+07	3.24 y	14:32	1.01	8760					6300	430	88
PCB-2	*	* n	NotFnd	0.89	*		1100	950	5.44	*	*	
PCB-3	*	* n	NotFnd	1.03	*		1100	950	5.27	*	*	
13C-PCB-3	3.68e+07	3.24 y	16:59	0.97	8950					5100	340	89
PCB-4	2.66e+06	1.41 y	18:13	1.05	1010		2800	4000	23.0	180	85	
PCB-10	6.46e+05	1.54 y	18:16	1.13	182		2800	4000	20.3	51	22	
13C-PCB-4	2.50e+07	1.60 y	18:12	0.63	9380					3000	2300	94
PCB-9	4.89e+05	1.39 y	19:56	1.19	131		2800	4000	19.3	29	22	
PCB-7	4.89e+05	1.39 y	19:56	1.27	123		2800	4000	18.1	29	22	
PCB-6	2.45e+06	1.46 y	20:33	1.23	631		2800	4000	18.6	130	61	
PCB-8	8.78e+06	1.55 y	20:55	1.11	2510		2800	4000	20.6	460	210	
PCB-5	8.78e+06	1.55 y	20:55	1.29	2160		2800	4000	17.8	460	210	
PCB-14	6.81e+05	1.43 y	21:59	1.15	187		2800	4000	19.9	31	18	
PCB-11	1.29e+05	1.41 y	23:08	1.08	37.8		2800	4000	21.1	5.9	7.4	
PCB-13	1.41e+05	1.42 y	23:28	1.08	41.4		2800	4000	21.2	9.3	8.9	
PCB-12	1.27e+05	1.45 y	23:30	1.13	35.5		2800	4000	20.2	7.6	6.6	
PCB-15	2.12e+06	1.47 y	23:48	1.07	520		2800	4000	20.5	68	31	
13C-PCB-15	3.81e+07	1.59 y	23:46	0.94	9480					3400	2500	95
PCB-19	2.26e+06	1.04 y	22:07	1.03	1040		690	420	4.76	440	690	
PCB-30	*	* n	NotFnd	1.46	*		690	420	3.35	*	*	
PCB-18	2.57e+07	1.05 y	23:40	1.02	11900		690	420	4.82	4800	7700	
PCB-17	1.29e+07	1.05 y	23:50	1.10	5490		690	420	4.43	2200	3500	
PCB-27	1.23e+06	0.98 y	24:21	1.41	410		690	420	3.48	400	660	
PCB-24	1.53e+06	1.14 y	24:22	1.44	500		690	420	3.39	420	650	
PCB-16	7.62e+06	1.02 y	24:50	1.18	3030		690	420	4.13	1700	2600	
PCB-32	1.08e+07	1.03 y	24:52	1.29	3970		690	420	3.80	2200	3500	
13C-PCB-19	2.12e+07	1.08 y	22:05	0.57	8700					140	160	87
13C-PCB-9	4.26e+07	1.61 y	19:53	-	57.7					4600	3500	
PCB-34	3.60e+05	1.08 y	25:38	0.98	118		2400	1500	18.4	17	25	
PCB-23	*	* n	NotFnd	1.24	*		2400	1500	14.5	*	*	
PCB-29	2.77e+05	1.15 y	25:57	1.12	79.0		2400	1500	16.0	13	20	
PCB-26	7.21e+06	1.07 y	26:10	1.11	2090		2400	1500	16.2	350	500	
PCB-25	3.67e+06	1.07 y	26:19	1.36	864		2400	1500	13.2	160	230	
PCB-31	3.53e+07	1.05 y	26:39	1.13	10000		2400	1500	15.9	1900	2800	
PCB-28	4.09e+07	1.08 y	26:45	1.34	9760		2400	1500	13.4	1700	2500	
PCB-20/21/33	1.88e+07	1.06 y	27:21	1.18	5100		2400	1500	15.2	830	1200	
PCB-22	1.16e+07	1.09 y	27:45	1.17	3190		2400	1500	15.5	520	750	
PCB-36	3.65e+06	1.07 y	28:21	1.05	1120		2400	1500	17.2	150	210	
PCB-39	*	* n	NotFnd	1.07	*		2400	1500	16.8	*	*	
PCB-38	2.50e+05	1.06 y	29:31	1.09	73.6		2400	1500	16.5	12	18	
PCB-35	1.63e+05	0.97 y	30:02	0.97	54.0		2400	1500	18.6	6.6	9.9	
PCB-37	3.86e+06	1.10 y	30:26	1.14	1090		2400	1500	15.8	150	210	
13C-PCB-37	3.11e+07	1.04 y	30:25	1.14	10400					75	55	100

FAL ID: 10398-006-0001-SA Filename: 31JAN17Z Sam:10 Acquired: 31-JAN-17 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR-CC-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

PCB-54	1.28e+05	0.80	y	25:39	0.99	45.6	770	1200	6.88	17	16	
PCB-50	1.37e+05	0.78	y	26:45	0.74	65.9	770	1200	9.29	16	14	
PCB-53	4.74e+06	0.77	y	27:22	0.74	2280	770	1200	9.27	610	550	
PCB-51	1.47e+06	0.77	y	27:42	0.75	693	770	1200	9.08	200	170	
PCB-45	4.02e+06	0.76	y	28:06	0.65	2180	770	1200	10.5	480	420	
PCB-46	1.47e+06	0.80	y	28:34	0.62	845	770	1200	11.1	180	160	
PCB-52/69	3.82e+07	0.78	y	29:00	0.95	14200	770	1200	7.16	5200	4400	
PCB-73	*	*	n	NotFnd	0.85	*	770	1200	8.05	*	*	
PCB-43/49	2.26e+07	0.77	y	29:18	0.72	11100	770	1200	9.52	2800	2500	
PCB-47	7.15e+06	0.78	y	29:29	0.91	2770	770	1200	7.47	850	730	
PCB-48/75	6.63e+06	0.78	y	29:36	0.90	2600	770	1200	7.55	860	730	
PCB-65	*	*	n	NotFnd	0.95	*	770	1200	7.21	*	*	
PCB-62	*	*	n	NotFnd	0.84	*	770	1200	8.09	*	*	
PCB-44	2.00e+07	0.76	y	30:15	0.64	11000	770	1200	10.6	2300	2100	
PCB-42/59	8.82e+06	0.77	y	30:28	0.87	3590	770	1200	7.86	1100	930	
PCB-41/64/71/72	2.31e+07	0.77	y	31:02	0.94	8720	770	1200	7.28	2400	2100	
PCB-68	2.25e+05	0.68	y	31:16	0.99	80.1	770	1200	6.86	23	20	
PCB-40	3.03e+06	0.74	y	31:28	0.56	1920	770	1200	12.3	360	310	
PCB-57	2.09e+05	0.78	y	31:50	0.94	78.8	770	1200	7.27	21	17	
PCB-67	8.44e+05	0.75	y	32:06	0.86	347	770	1200	7.93	97	83	
PCB-58	1.14e+05	0.84	y	32:13	0.99	40.8	770	1200	6.91	19	18	
PCB-63	1.13e+06	0.80	y	32:21	0.95	422	770	1200	7.19	120	100	
PCB-74	1.10e+07	0.77	y	32:39	0.97	3990	770	1200	7.01	1300	1100	
PCB-61/70	2.54e+07	0.77	y	32:50	1.03	8760	770	1200	6.66	2800	2400	
PCB-66/76	1.98e+07	0.78	y	33:03	0.99	7100	770	1200	6.92	2000	1700	
PCB-80	*	*	n	NotFnd	1.07	*	770	1200	6.38	*	*	
PCB-55	6.09e+05	0.87	y	33:33	0.97	223	770	1200	7.07	49	41	
13C-PCB-54	2.83e+07	0.79	y	25:38	1.12	9590				2200	3900	96
PCB-104	4.68e+06	1.58	y	30:06	1.06	2180	340	460	4.37	1800	890	
PCB-96	2.59e+05	1.53	y	31:18	0.99	129	340	460	4.68	100	44	
PCB-103	2.61e+05	1.57	y	31:49	0.82	157	340	460	5.62	110	50	
PCB-100	1.05e+05	1.49	y	32:10	0.82	63.4	340	460	5.65	35	18	
PCB-94	1.02e+05	1.63	y	32:35	0.68	73.3	340	460	6.77	37	20	
PCB-98/102	1.68e+07	1.60	y	33:06	0.87	9580	340	460	5.33	6200	2900	
PCB-95	1.68e+07	1.60	y	33:06	0.74	11300	340	460	6.27	6200	2900	
PCB-93	*	*	n	NotFnd	0.70	*	340	460	6.64	*	*	
PCB-88/91	2.54e+06	1.55	y	33:30	0.79	1580	340	460	5.84	1200	540	
PCB-121	7.79e+06	1.60	y	33:33	0.93	4140	340	460	4.99	2900	1400	
13C-PCB-104	2.03e+07	1.59	y	30:05	0.82	9410				6100	5000	94
13C-PCB-28	3.83e+07	1.04	y	26:44	1.38	10600				110	79	110
13C-PCB-52	2.62e+07	0.79	y	28:59	-	52.7				1900	3400	
PCB-56/60	1.30e+07	0.77	y	34:01	1.06	4340	3700	6500	48.8	270	210	
PCB-79	2.28e+05	0.79	y	35:02	1.08	74.7	3700	6500	47.7	5.0	3.9	
PCB-78	7.13e+06	0.80	y	35:43	1.03	2470	3700	6500	50.4	150	110	
PCB-81	4.97e+05	0.76	y	36:14	1.07	163	3700	6500	45.5	9.2	7.7	
13C-PCB-81	2.86e+07	0.80	y	36:12	1.02	11200				3300	3400	110
PCB-77	9.75e+05	0.84	y	36:48	0.99	358	3700	6500	55.8	17	11	
13C-PCB-77	2.75e+07	0.79	y	36:47	1.01	10900				3000	2900	110

PCB-155	1.10e+07	1.29	y	34:16	1.01	4760		500	360	4.24	2700	2800	
PCB-150	3.28e+04	1.27	y	35:28	0.91	15.8	J	500	360	4.69	7.1	10	
PCB-152	*	*	n	NotFnd	0.90	*		500	360	4.75	*	*	
PCB-145	*	*	n	NotFnd	0.89	*		500	360	4.82	*	*	
PCB-136	2.18e+06	1.29	y	36:38	0.93	1030		500	360	4.61	490	550	
PCB-148	*	*	n	NotFnd	0.64	*		500	360	6.66	*	*	
PCB-154	1.71e+05	1.21	y	37:12	0.78	95.5		500	360	5.48	38	43	
13C-PCB-155	2.29e+07	1.27	y	34:15	1.02	8950					6000	4300	90
13C-PCB-111	2.91e+07	1.61	y	36:20	1.11	10500					1800	1600	100
13C-PCB-101	2.51e+07	1.61	y	34:41	-	55.5					1700	1500	
PCB-84/92	9.61e+06	1.57	y	34:21	0.79	4370		7600	2900	62.9	160	250	
PCB-89	2.71e+05	1.55	y	34:31	0.73	135		7600	2900	68.7	4.9	8.5	
PCB-90/101	2.25e+07	1.56	y	34:43	0.85	9590		7600	2900	58.9	380	630	
PCB-113	*	*	n	NotFnd	1.01	*		7600	2900	49.6	*	*	
PCB-99	8.78e+06	1.56	y	35:02	0.88	3580		7600	2900	56.5	140	240	
PCB-119	5.64e+05	1.40	y	35:28	1.08	188		7600	2900	46.1	9.5	16	
PCB-83/112	1.09e+06	1.41	y	35:37	0.84	468		7600	2900	59.3	18	32	
PCB-109	*	*	n	NotFnd	1.01	*		7600	2900	49.2	*	*	
PCB-97	5.83e+06	1.54	y	35:57	0.92	2280		7600	2900	54.0	92	150	
PCB-86	*	*	n	NotFnd	0.82	*		7600	2900	61.1	*	*	
PCB-87/117/125	8.24e+06	1.55	y	36:14	0.95	3130		7600	2900	52.5	130	210	
PCB-111/115	4.20e+05	1.56	y	36:23	1.16	131		7600	2900	43.0	9.8	17	
PCB-85/116	2.92e+06	1.50	y	36:28	0.89	1180		7600	2900	56.2	44	77	
PCB-120	*	*	n	NotFnd	1.12	*		7600	2900	44.6	*	*	
PCB-110	2.35e+07	1.54	y	36:50	1.07	7910		7600	2900	46.7	380	650	
PCB-82	1.68e+06	1.52	y	37:26	0.63	969		7600	2900	79.6	27	45	
PCB-124	6.22e+05	1.56	y	38:07	1.04	215		1000	800	8.28	65	51	
PCB-107/108	1.06e+06	1.62	y	38:16	0.99	384		1000	800	8.70	130	93	
PCB-123	2.66e+05	1.51	y	38:25	1.22	83.6		1000	800	6.89	28	24	
13C-PCB-123	2.61e+07	1.61	y	38:23	1.07	10200					280	290	100
PCB-118/106	1.35e+07	1.58	y	38:35	0.96	4730		1000	800	8.98	1500	1200	
13C-PCB-118	2.97e+07	1.60	y	38:33	1.18	10500					270	280	100
PCB-114	4.14e+05	1.61	y	39:12	1.07	137		1000	800	7.90	40	33	
13C-PCB-114	2.83e+07	1.60	y	39:11	1.11	10600					280	290	110
PCB-122	1.92e+05	1.45	y	39:19	0.96	72.4		1000	800	9.00	20	16	
PCB-105	4.41e+06	1.54	y	40:02	1.02	1620		1000	800	8.92	520	420	
13C-PCB-105	2.68e+07	1.61	y	40:00	1.09	10300					260	270	100
PCB-127	*	*	n	NotFnd	0.89	*		1000	800	9.71	*	*	
PCB-126	3.97e+04	1.47	y	42:08	1.05	15.1	J	1000	800	9.78	3.9	3.6	
13C-PCB-126	2.50e+07	1.63	y	42:08	0.90	11700					230	240	120
PCB-151	2.52e+06	1.28	y	37:50	0.81	1210		1300	1100	14.4	230	210	
PCB-135	1.58e+06	1.24	y	38:02	0.80	767		1300	1100	14.5	130	130	
PCB-144	5.39e+05	1.23	y	38:08	0.85	248		1300	1100	13.7	55	53	
PCB-147	2.32e+05	1.25	y	38:16	0.95	96.3		1300	1100	12.4	20	20	
PCB-139/149	9.46e+06	1.26	y	38:30	0.91	4050		1300	1100	12.8	840	800	
PCB-140	7.54e+04	1.16	y	38:41	0.91	32.5		1300	1100	12.9	6.2	6.6	
PCB-134/143	6.53e+05	1.24	y	39:07	0.83	307		1300	1100	14.0	56	55	
PCB-131/133	2.71e+05	1.20	y	39:24	0.85	125		1300	1100	13.7	24	23	
PCB-142	7.91e+06	1.28	y	39:32	0.73	4240		1300	1100	16.0	700	670	
PCB-146/165	1.46e+06	1.21	y	39:45	1.00	569		1300	1100	11.7	130	130	
PCB-132/161	3.20e+06	1.20	y	40:00	0.97	1290		1300	1100	12.1	280	280	
PCB-153	8.91e+06	1.28	y	40:08	0.90	3890		1300	1100	13.0	750	710	
PCB-168	*	*	n	NotFnd	1.10	*		1300	1100	10.7	*	*	
PCB-141	1.58e+06	1.28	y	40:51	0.84	733		1300	1100	13.9	130	120	
PCB-137	3.26e+05	1.20	y	41:13	0.91	141		1300	1100	12.9	36	35	

PCB-130	6.01e+05	1.29	y	41:17	0.64	365		1300	1100	18.2	47	39	
PCB-138/163/164	9.23e+06	1.27	y	41:39	1.10	3300		1300	1100	10.7	730	690	
PCB-158/160	1.20e+06	1.23	y	41:52	1.09	431		1300	1100	10.7	97	99	
PCB-129	3.69e+05	1.23	y	42:07	0.69	208		1300	1100	16.8	30	29	
PCB-166	4.53e+04	1.06	y	42:33	1.07	16.6	J	1300	1100	10.9	3.4	3.1	
PCB-159	6.52e+04	1.35	y	42:55	1.06	24.0		1300	1100	11.0	6.8	5.4	
PCB-128/162	1.25e+06	1.21	y	43:08	0.92	531		1300	1100	12.7	100	100	
PCB-167	2.84e+05	1.34	y	43:31	0.93	115		1300	1100	12.8	24	22	
13C-PCB-167	2.64e+07	1.25	y	43:29	1.09	10100					1100	1800	100
PCB-156	6.91e+05	1.25	y	44:45	0.97	282		1300	1100	11.6	61	57	
13C-PCB-156	2.52e+07	1.27	y	44:43	1.01	10500					1100	1900	100
PCB-157	1.41e+05	1.33	y	45:00	0.97	54.8		1300	1100	12.5	12	11	
13C-PCB-157	2.65e+07	1.25	y	44:58	1.04	10600					1000	1800	110
PCB-169	*	*	n	NotFnd	0.92	*		1300	1100	12.5	*	*	
13C-PCB-169	2.41e+07	1.28	y	46:52	0.87	11600					1100	1800	120
PCB-188	*	*	n	NotFnd	1.07	*		610	440	4.73	*	*	
13C-PCB-188	2.39e+07	1.09	y	39:45	1.14	8770					4700	5700	88
PCB-184	1.77e+07	1.06	y	40:12	1.21	6550		610	440	4.02	3100	4200	
PCB-179	9.22e+05	1.07	y	40:56	1.17	352		610	440	4.16	160	220	
PCB-176	2.60e+05	1.03	y	41:22	1.12	104		610	440	4.34	49	69	
PCB-186	*	*	n	NotFnd	1.12	*		610	440	4.32	*	*	
PCB-178	2.45e+05	1.00	y	42:25	0.82	134		610	440	5.94	46	63	
PCB-175	4.04e+04	0.97	y	42:45	0.87	20.8		610	440	5.60	8.7	11	
PCB-182/187	1.52e+06	1.06	y	42:55	0.92	739		610	440	5.29	260	340	
PCB-183	7.10e+05	1.08	y	43:13	0.91	347		610	440	5.32	140	170	
PCB-185	1.42e+05	1.13	y	43:51	0.84	75.0		610	440	5.77	29	26	
PCB-174	1.08e+06	1.12	y	44:10	0.93	520		610	440	5.22	200	250	
PCB-181	*	*	n	NotFnd	0.72	*		610	440	6.73	*	*	
PCB-177	5.93e+05	1.10	y	44:27	0.76	346		610	440	6.36	110	140	
PCB-171	2.89e+05	1.08	y	44:43	0.80	160		610	440	6.03	55	69	
PCB-173	*	*	n	NotFnd	0.73	*		610	440	6.63	*	*	
PCB-172	3.18e+05	1.11	y	45:31	0.75	188		610	440	6.44	54	65	
PCB-192	1.03e+07	1.06	y	45:42	0.97	4740		610	440	5.00	2100	2700	
PCB-180	1.86e+06	1.08	y	45:52	0.96	859		610	440	5.04	350	470	
PCB-193	1.77e+05	1.08	y	46:04	1.06	74.3		610	440	4.58	30	32	
PCB-191	5.41e+04	1.19	y	46:15	1.02	23.7		610	440	4.77	10	13	
PCB-170	6.36e+05	1.06	y	47:10	0.70	408		610	440	6.98	130	170	
PCB-190	1.72e+05	1.05	y	47:20	0.95	80.8		610	440	5.11	38	51	
PCB-189	2.93e+04	0.98	y	48:34	1.04	13.4	J	610	440	4.43	5.6	8.8	
13C-PCB-189	2.10e+07	1.08	y	48:32	0.85	10400					5100	6300	100
PCB-202	5.93e+04	0.91	y	44:55	0.90	36.5		290	350	4.68	22	21	
PCB-201	*	*	n	NotFnd	0.93	*		290	350	4.51	*	*	
PCB-204	1.61e+07	0.90	y	45:29	0.85	10500		290	350	4.97	6400	5800	
PCB-197	1.40e+05	0.91	y	45:46	0.92	84.4		290	350	4.60	45	45	
PCB-200	5.25e+04	0.85	y	46:30	0.88	33.0		290	350	4.77	20	16	
PCB-198	*	*	n	NotFnd	0.56	*		290	350	7.55	*	*	
PCB-199	2.08e+05	0.91	y	47:48	0.68	169		290	350	6.18	97	86	
PCB-196/203	2.19e+05	0.92	y	48:02	0.67	180		290	350	6.25	100	85	
13C-PCB-202	1.80e+07	0.93	y	44:53	0.92	8240					6800	5600	82
13C-PCB-178	1.72e+07	1.09	y	42:23	0.80	9050					3300	3900	90
13C-PCB-138	2.39e+07	1.28	y	41:37	-	58.3					1100	1800	

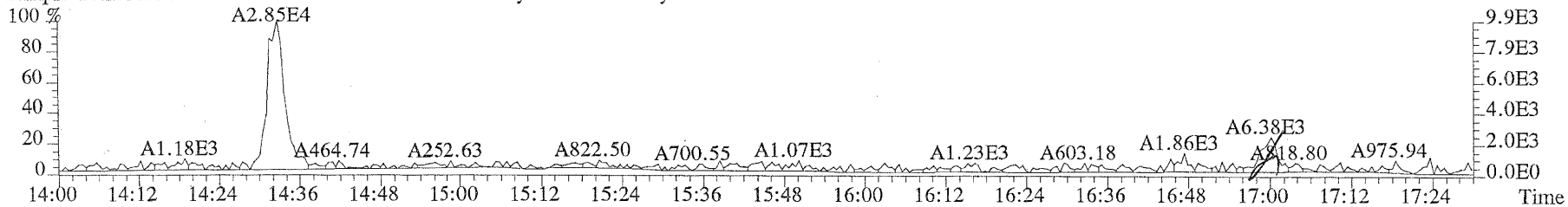
FAL ID: 10398-006-0001-SA Filename: 31JAN17Z Sam:10 Acquired: 31-JAN-17 21:57:17 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-ENR-CC-S010 ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

PCB-195	9.61e+04	0.87	y	49:09	0.78	52.1	680	830	6.75	21	18	
PCB-194	1.85e+05	0.86	y	49:59	0.83	94.3	680	830	6.35	41	33	
PCB-205	*	*	n	NotFnd	1.07	*	680	830	4.93	*	*	
13C-PCB-205	2.36e+07	0.91	y	50:13	1.19	9740				7800	5700	97
PCB-208	*	*	n	NotFnd	0.91	*	650	660	4.98	*	*	
13C-PCB-208	2.30e+07	0.79	y	49:15	1.31	8700				5800	7800	87
PCB-207	9.79e+04	1.46	y	49:35	1.04	47.2	650	660	5.34	28	19	
PCB-206	3.67e+04	1.29	y	51:29	0.93	23.5	650	660	7.52	11	5.7	
13C-PCB-206	1.68e+07	0.80	y	51:28	0.94	8840				3700	5000	88
PCB-209	9.06e+04	1.15	y	52:43	0.99	42.5	280	240	2.24	41	45	
13C-PCB-209	2.15e+07	1.20	y	52:43	1.29	8230				11000	8300	82
13C-PCB-194	2.03e+07	0.91	y	49:58	-	64.2				6700	4800	

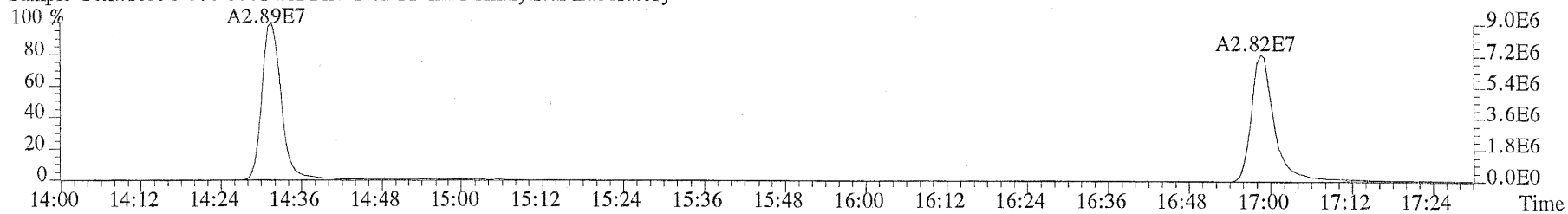
Analyst: _____ Date: 2/3/17

File:31JAN17Z #1-784 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory

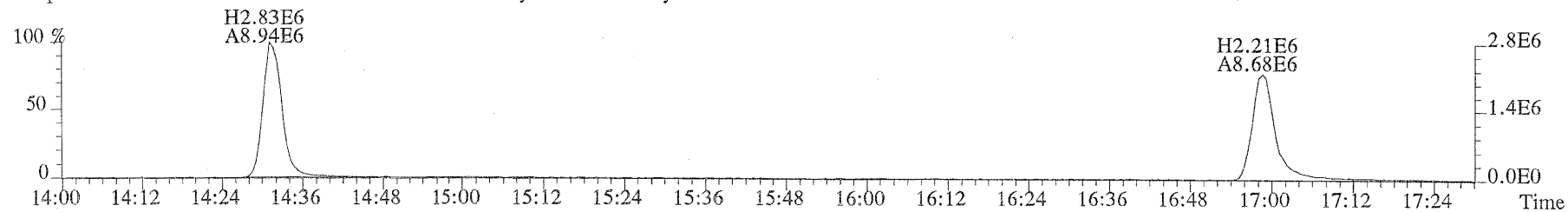
File:31JAN17Z #1-784 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



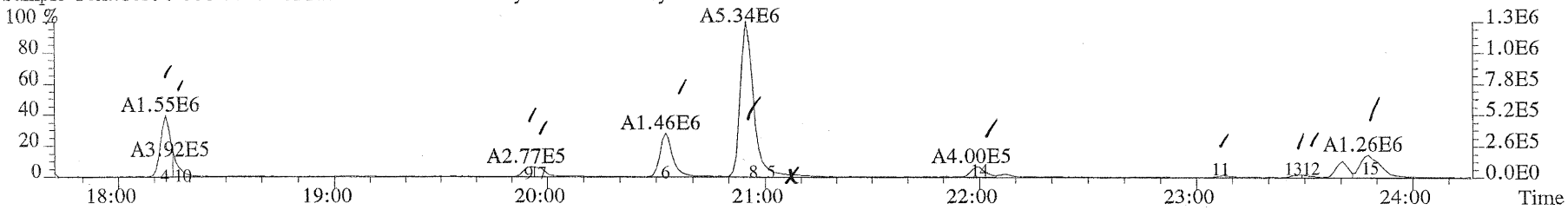
File:31JAN17Z #1-784 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



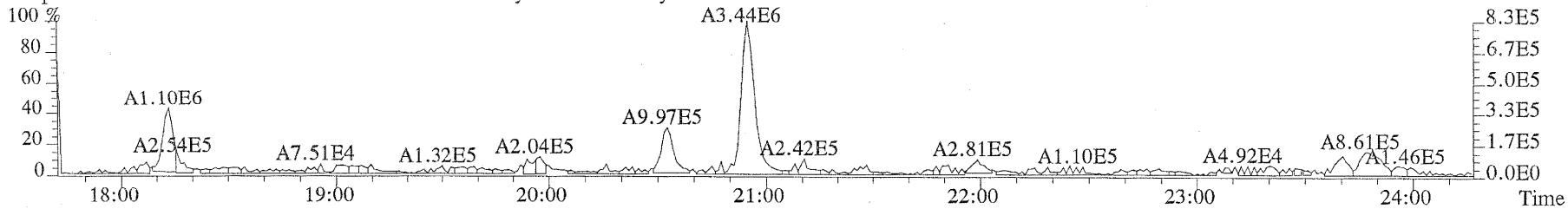
File:31JAN17Z #1-784 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



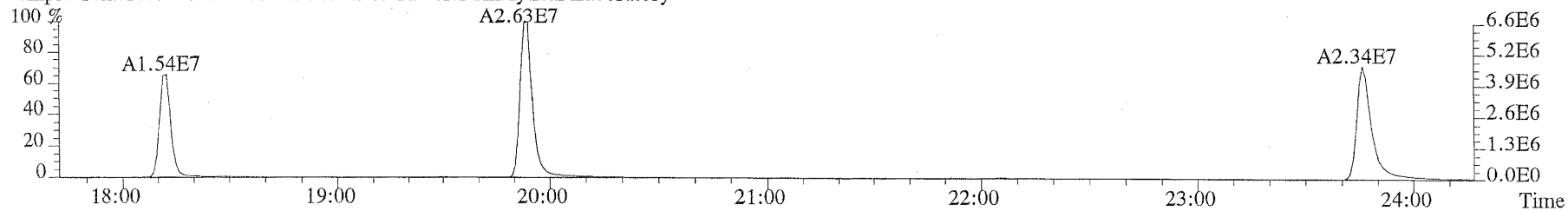
File:31JAN17Z #1-509 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



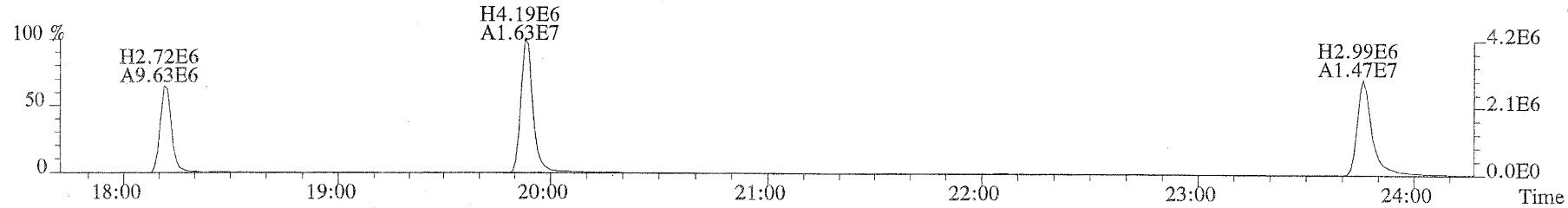
File:31JAN17Z #1-509 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



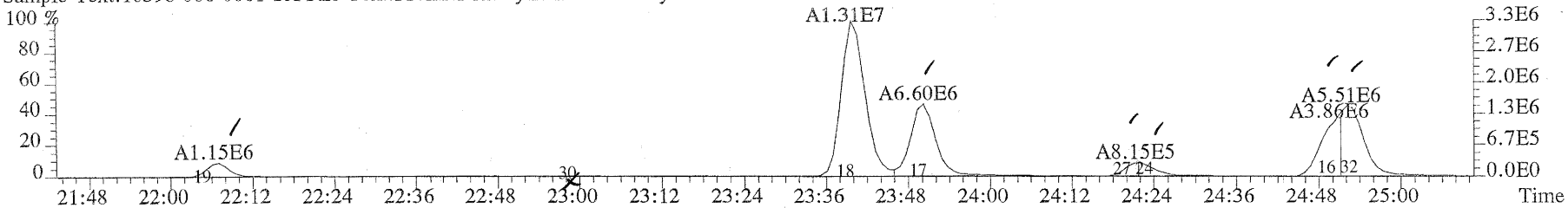
File:31JAN17Z #1-509 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



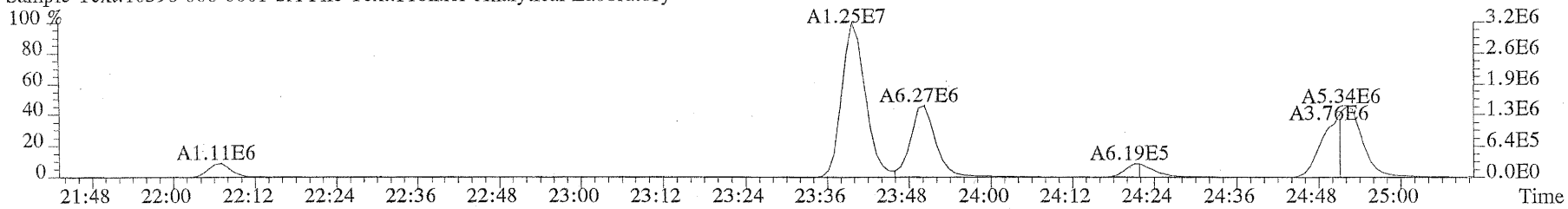
File:31JAN17Z #1-509 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



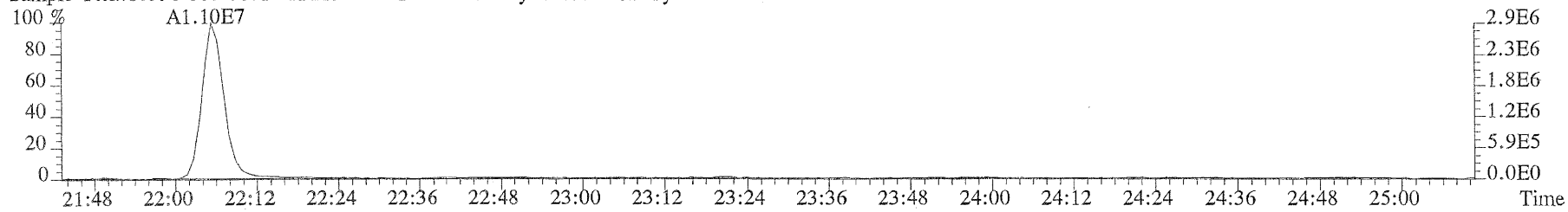
File:31JAN17Z #1-509 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



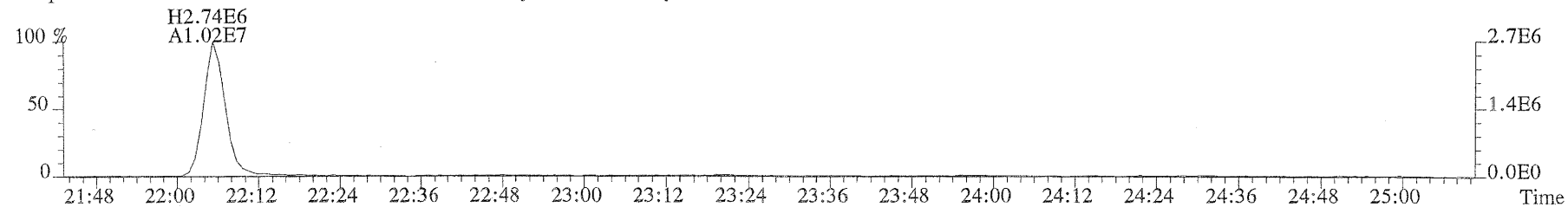
File:31JAN17Z #1-509 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



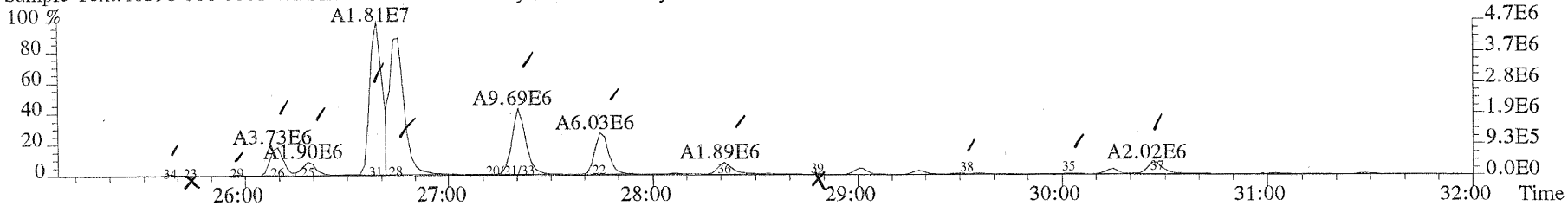
File:31JAN17Z #1-509 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



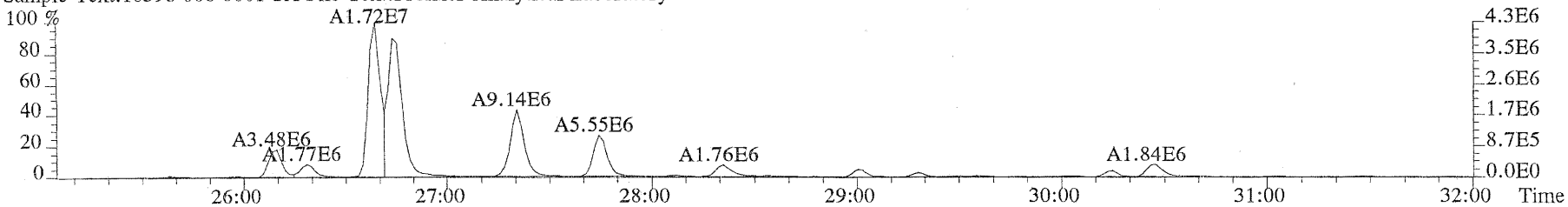
File:31JAN17Z #1-509 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



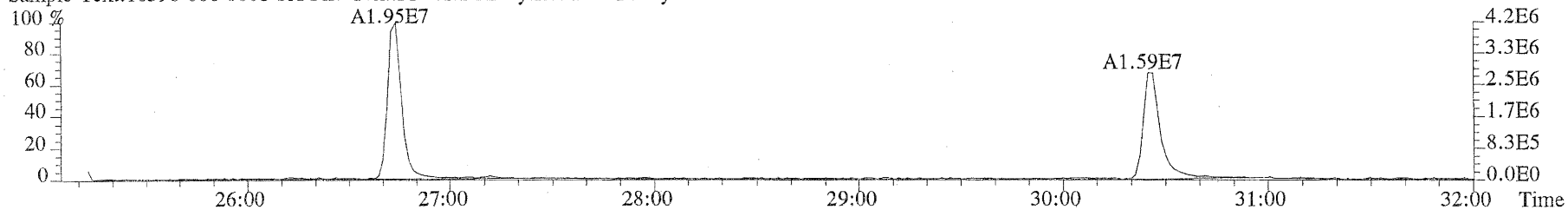
File:31JAN17Z #1-407 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



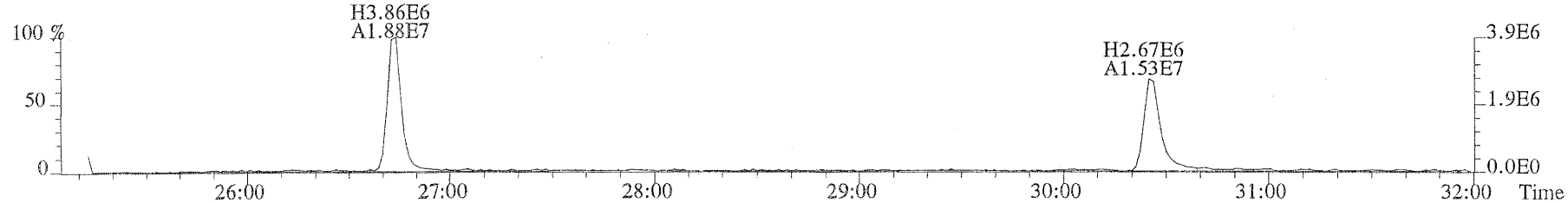
File:31JAN17Z #1-407 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



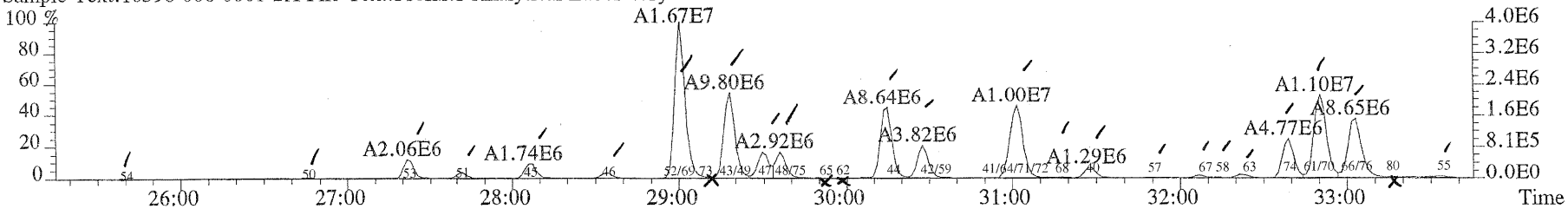
File:31JAN17Z #1-407 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



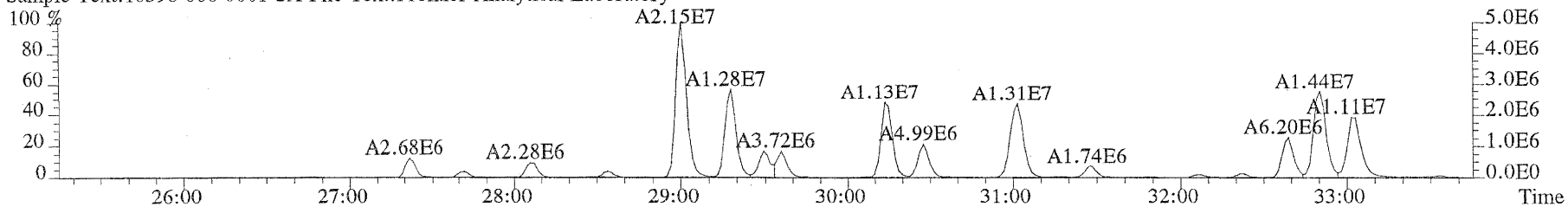
File:31JAN17Z #1-407 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



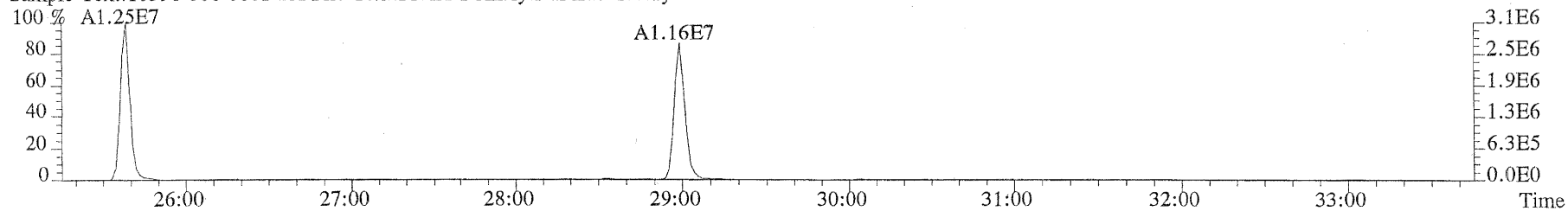
File:31JAN17Z #1-407 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



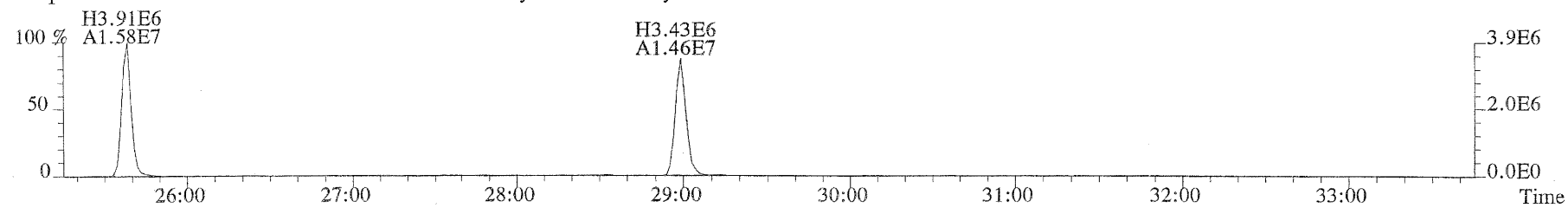
File:31JAN17Z #1-407 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



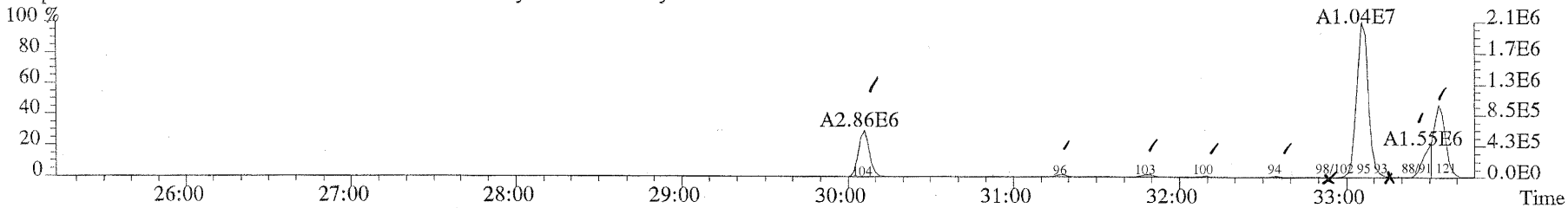
File:31JAN17Z #1-407 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



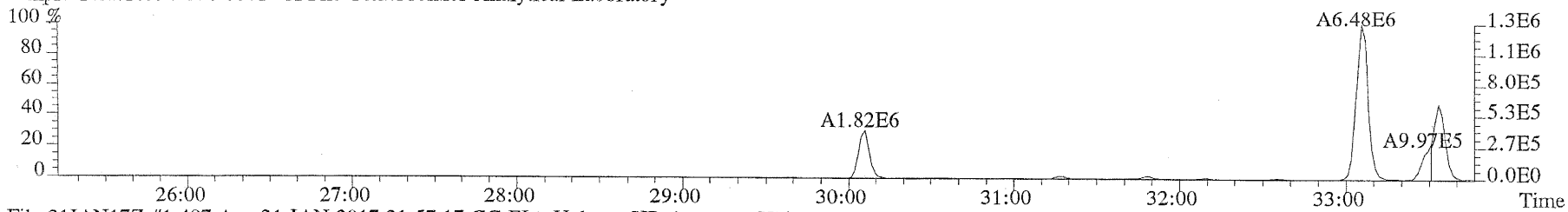
File:31JAN17Z #1-407 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



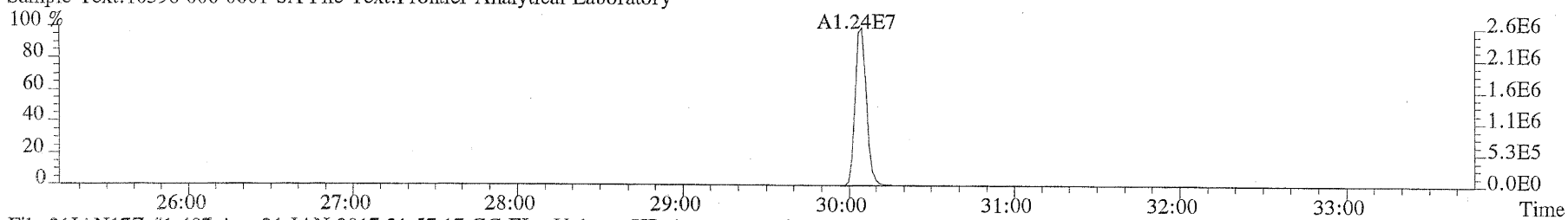
File:31JAN17Z #1-407 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



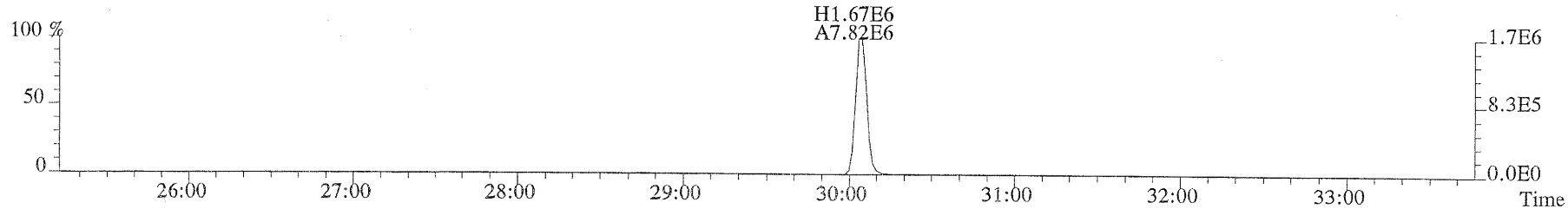
File:31JAN17Z #1-407 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



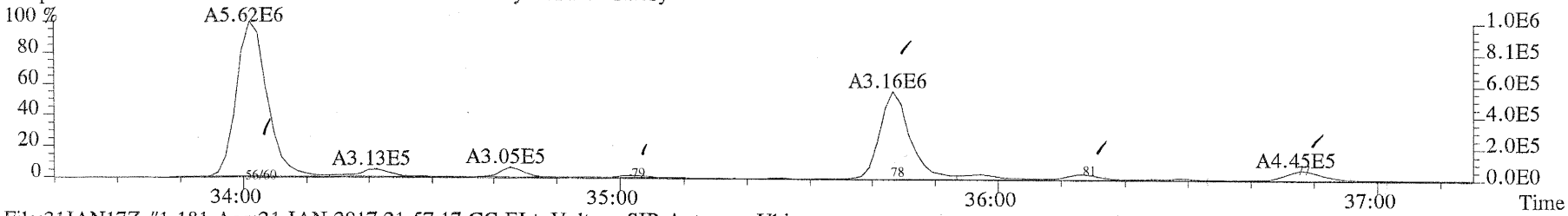
File:31JAN17Z #1-407 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



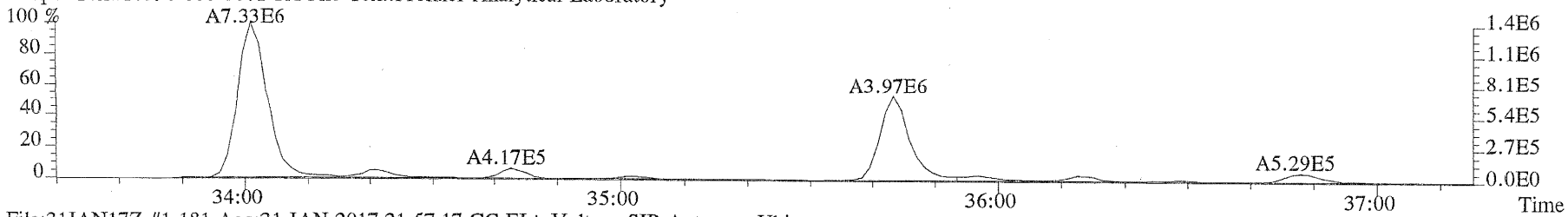
File:31JAN17Z #1-407 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



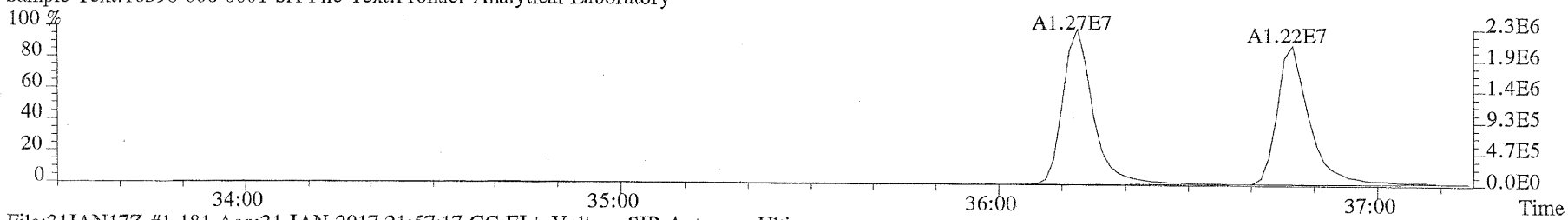
File:31JAN17Z #1-181 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



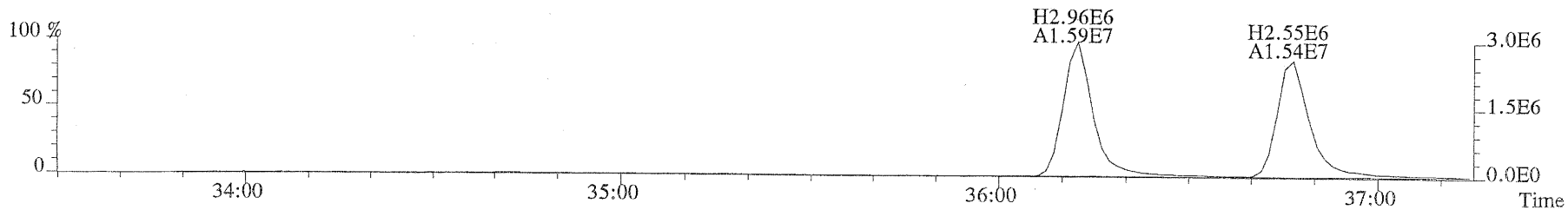
File:31JAN17Z #1-181 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



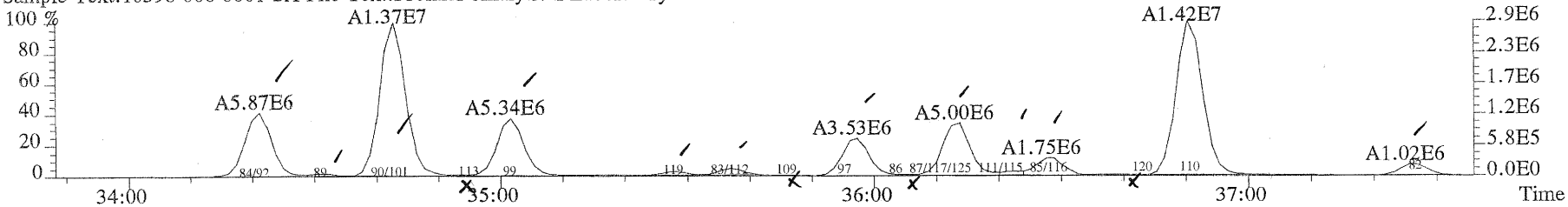
File:31JAN17Z #1-181 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



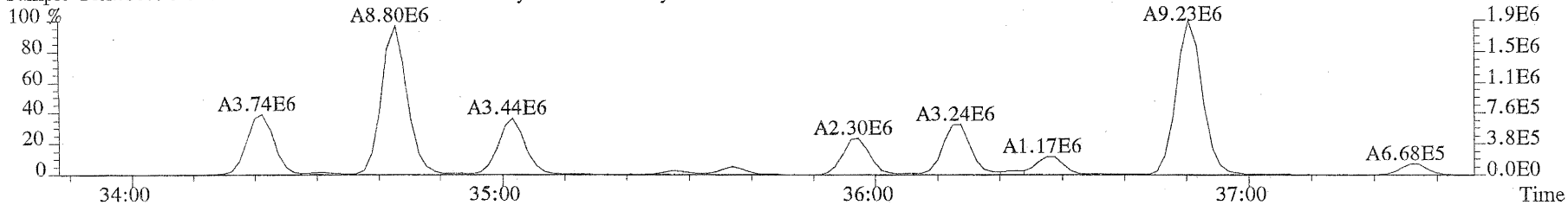
File:31JAN17Z #1-181 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



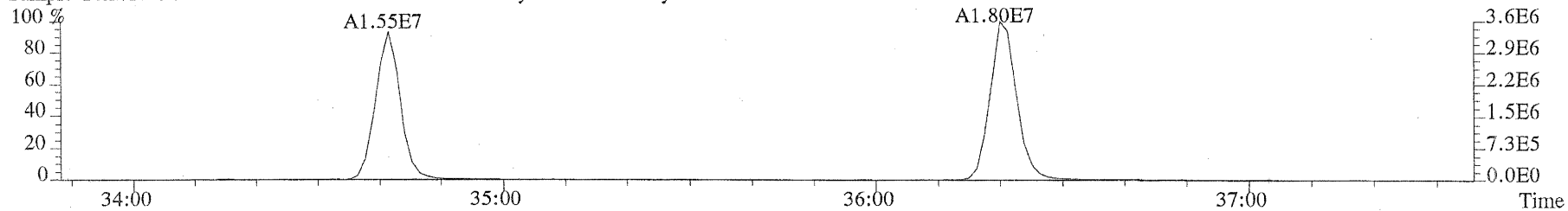
File:31JAN17Z #1-181 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



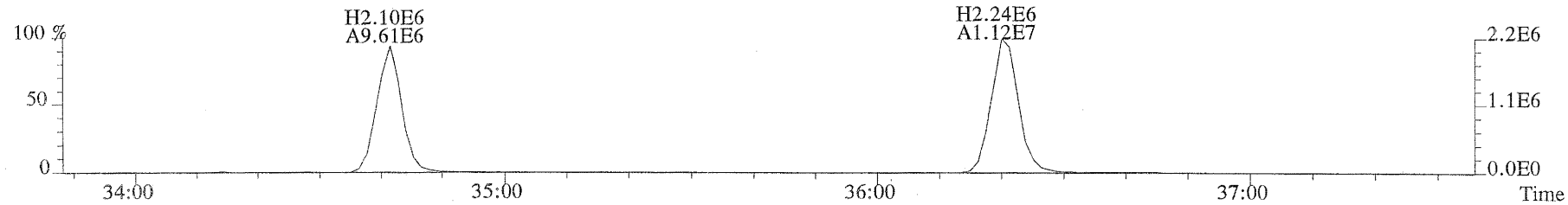
File:31JAN17Z #1-181 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



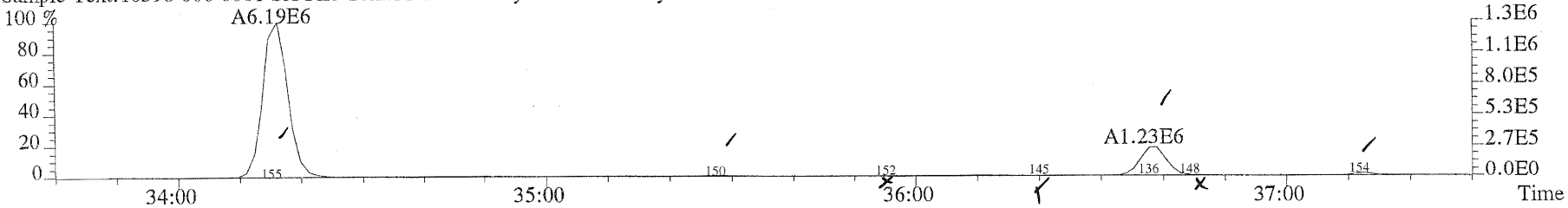
File:31JAN17Z #1-181 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



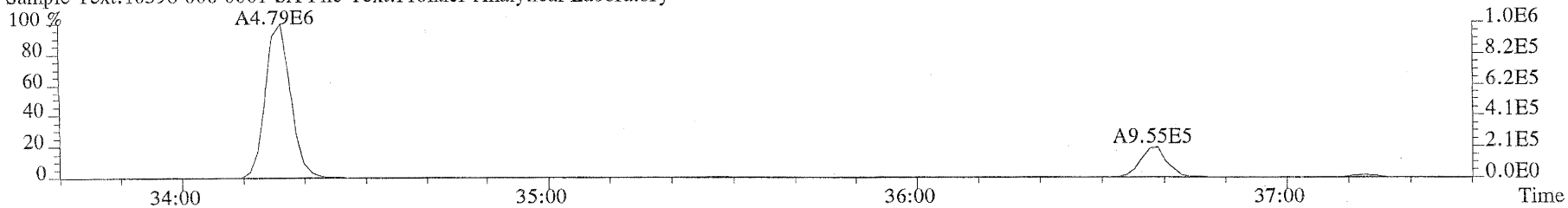
File:31JAN17Z #1-181 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



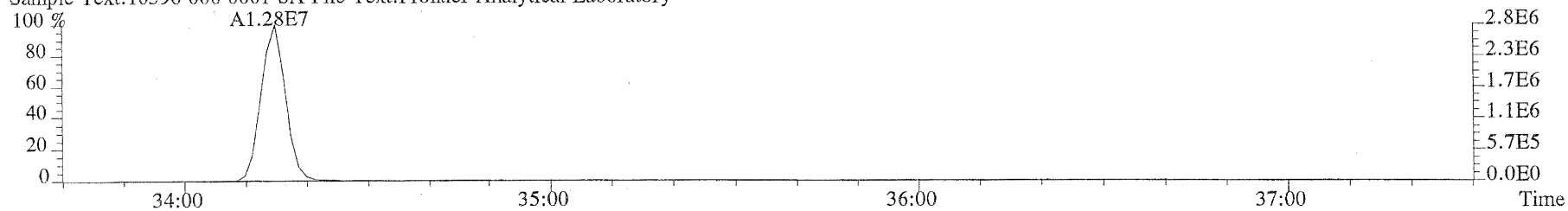
File:31JAN17Z #1-181 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



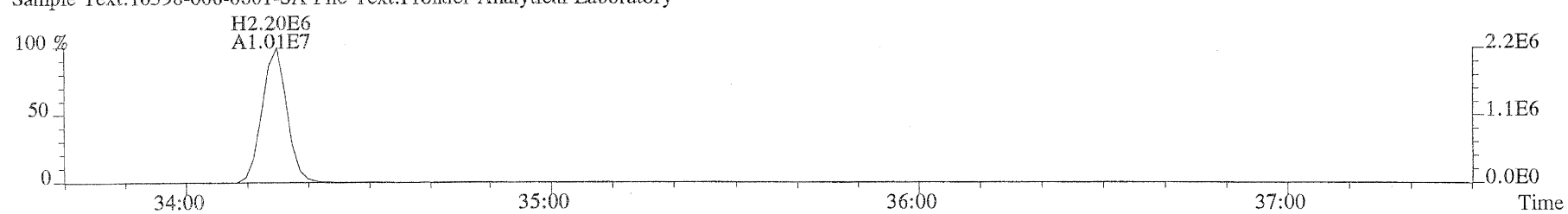
File:31JAN17Z #1-181 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



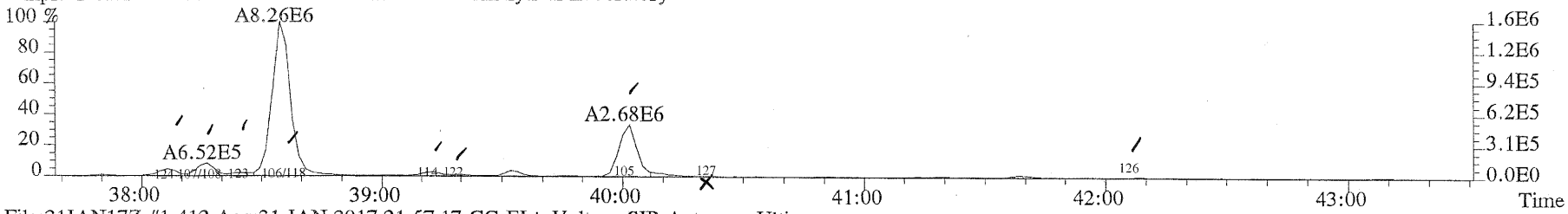
File:31JAN17Z #1-181 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



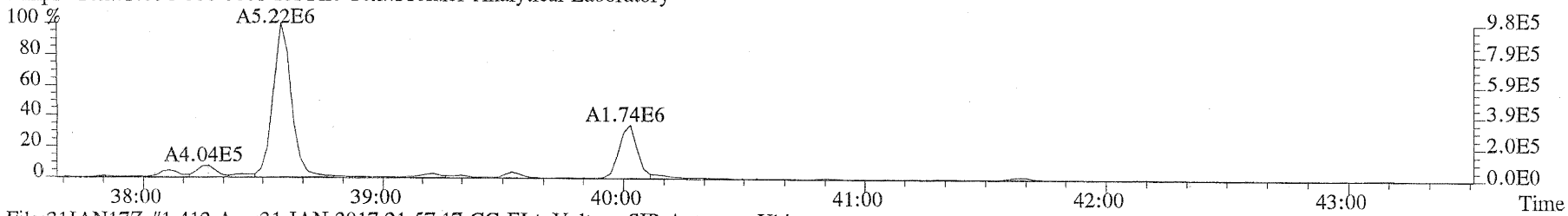
File:31JAN17Z #1-181 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



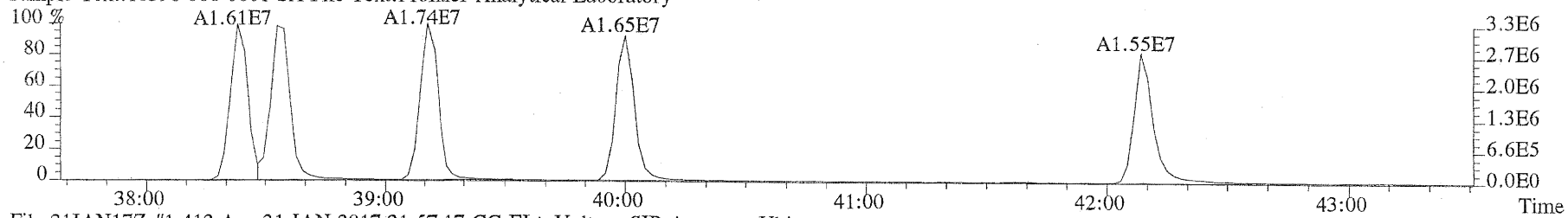
File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory

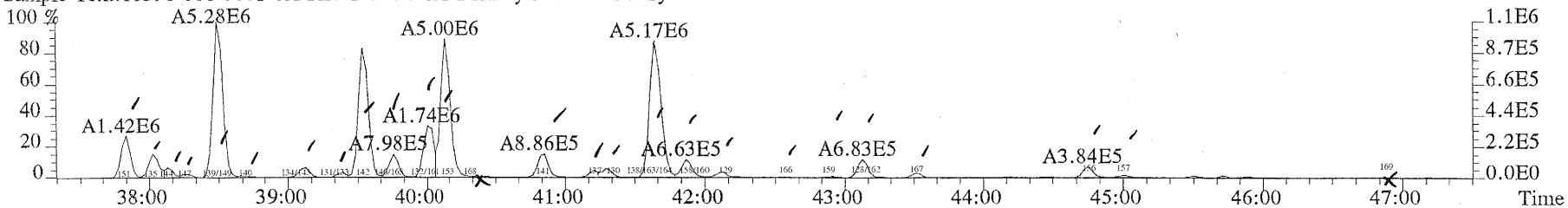


File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory

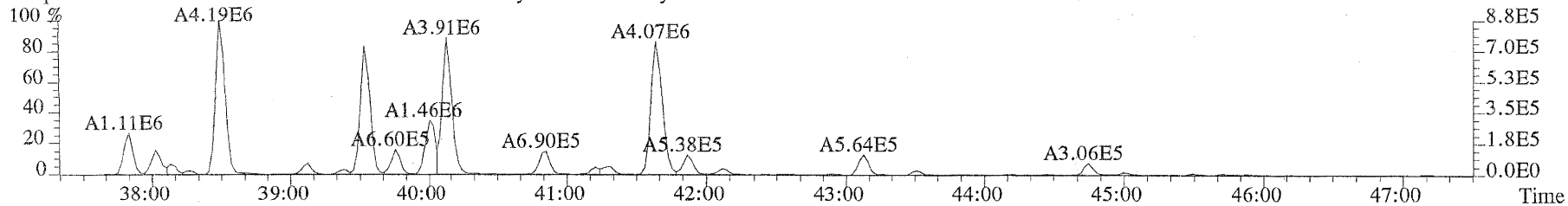


File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory

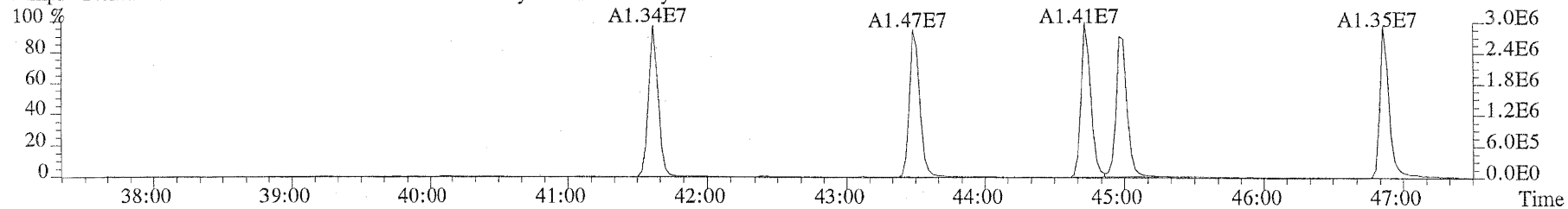
File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



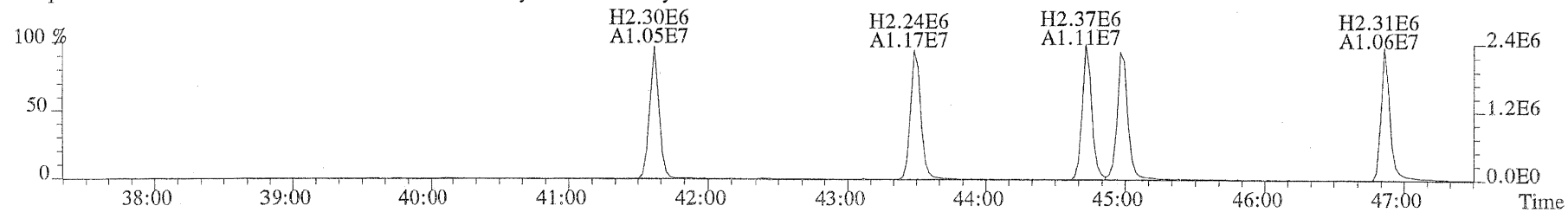
File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



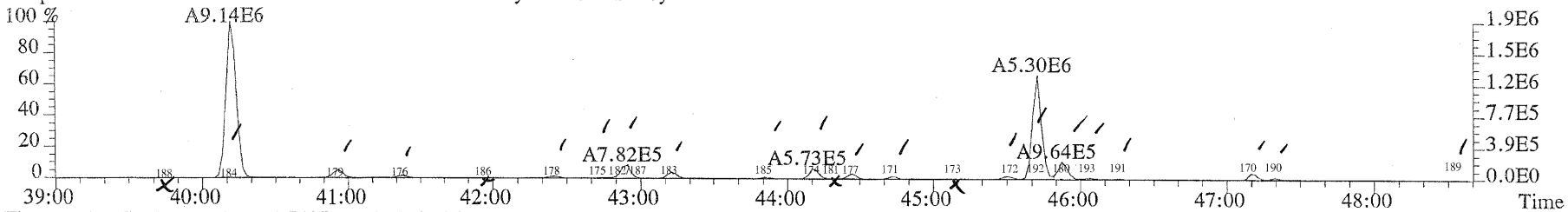
File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



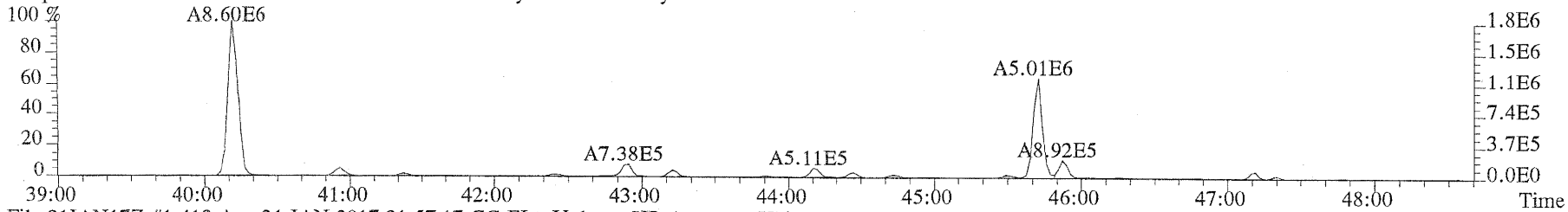
File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



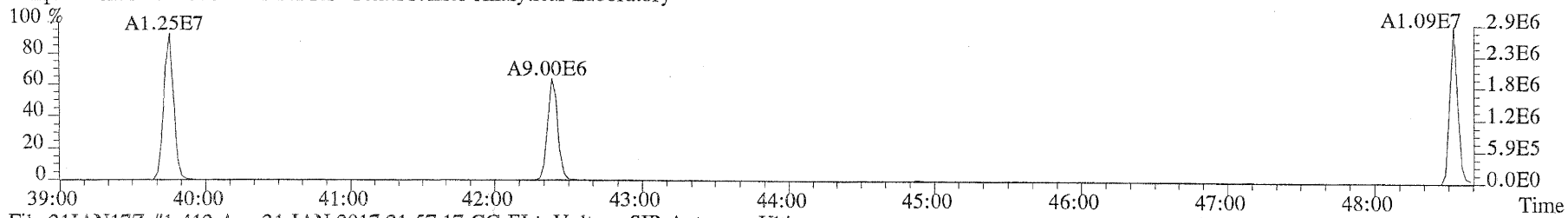
File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



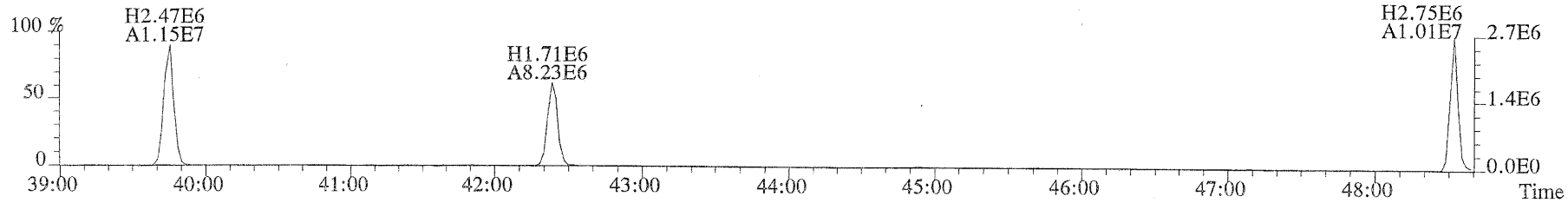
File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



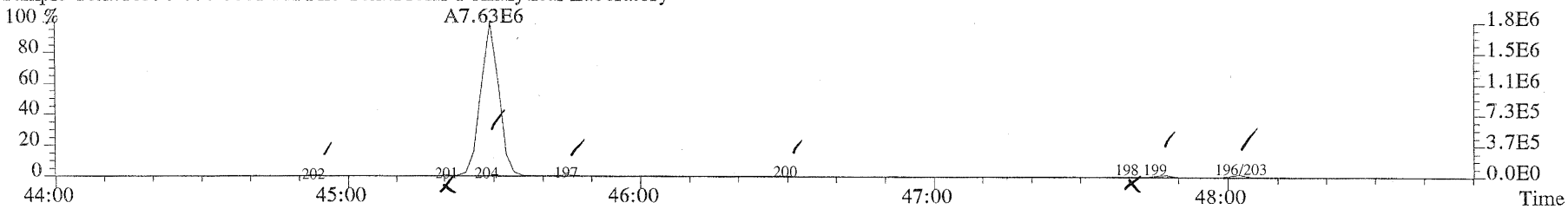
File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



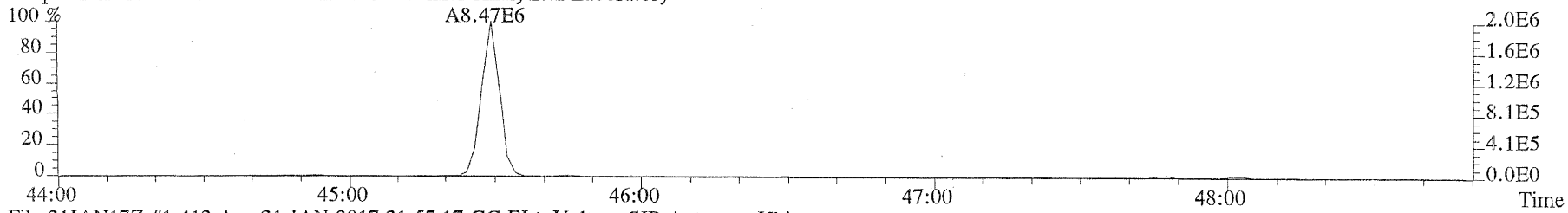
File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



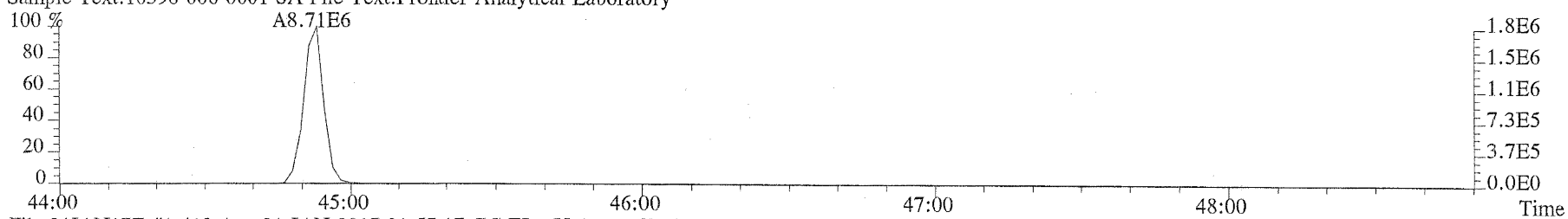
File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



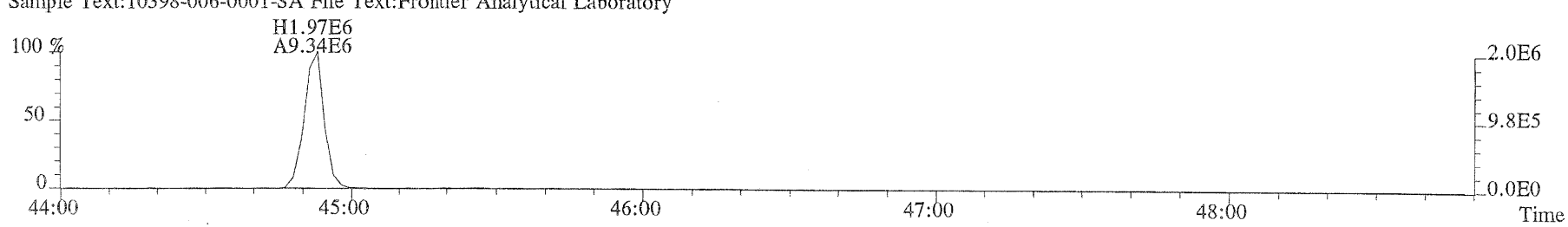
File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



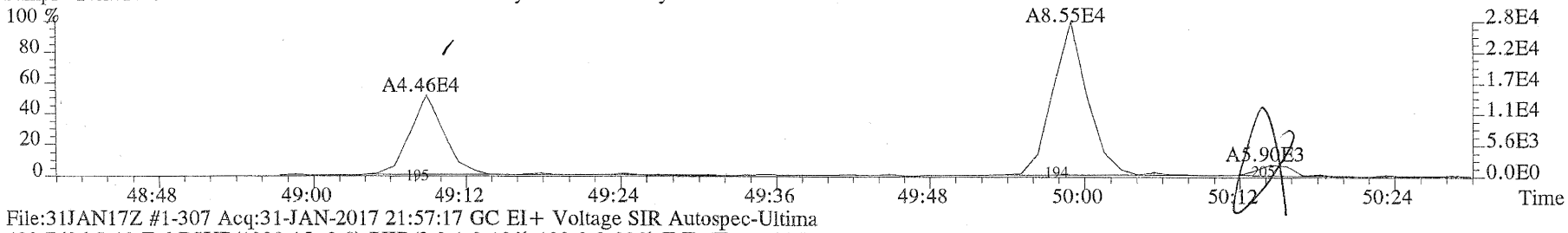
File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



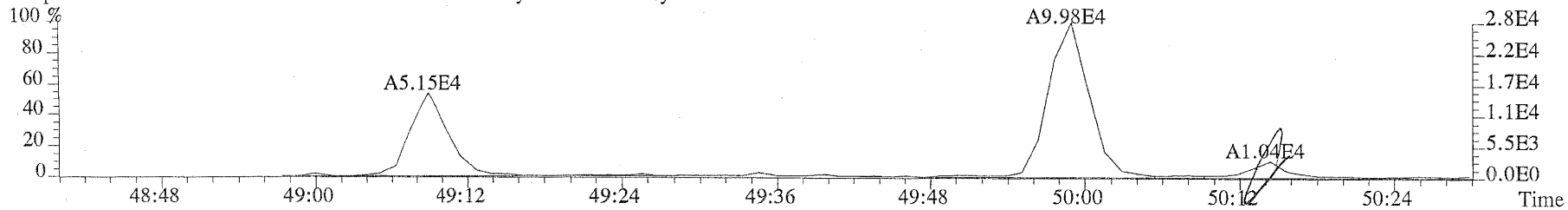
File:31JAN17Z #1-412 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



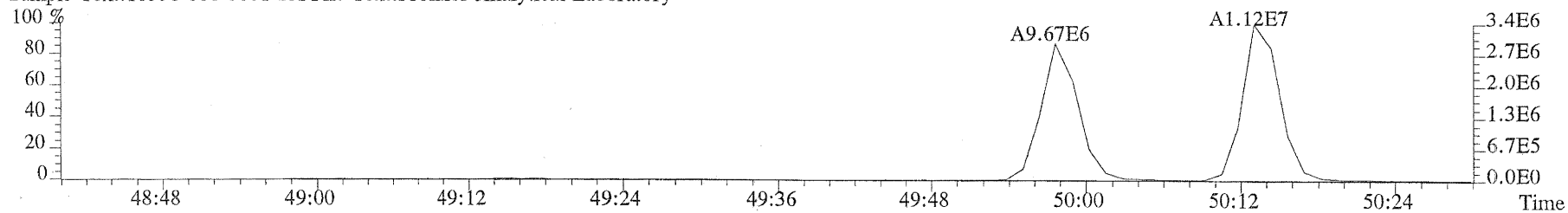
File:31JAN17Z #1-307 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



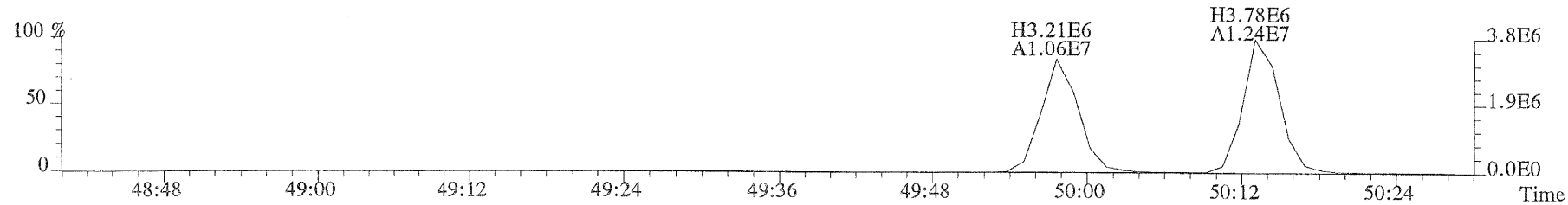
File:31JAN17Z #1-307 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



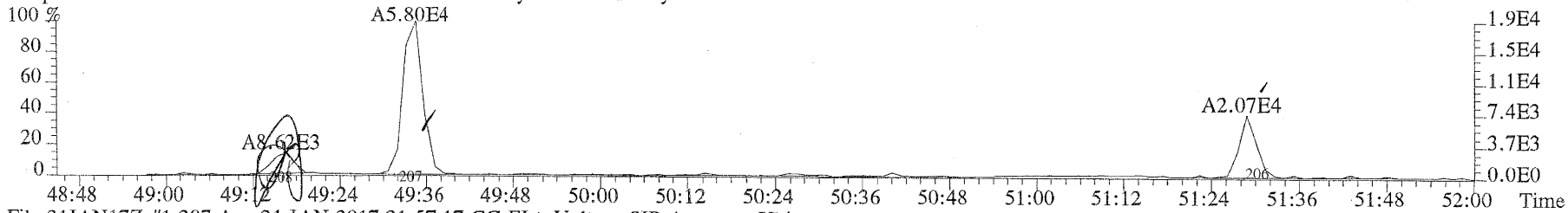
File:31JAN17Z #1-307 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



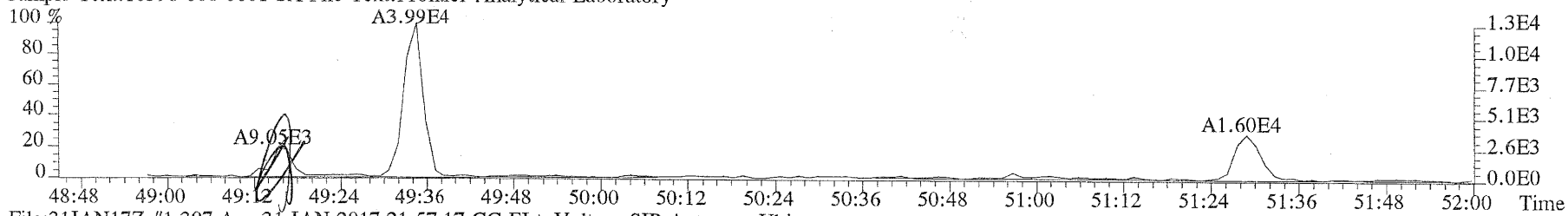
File:31JAN17Z #1-307 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



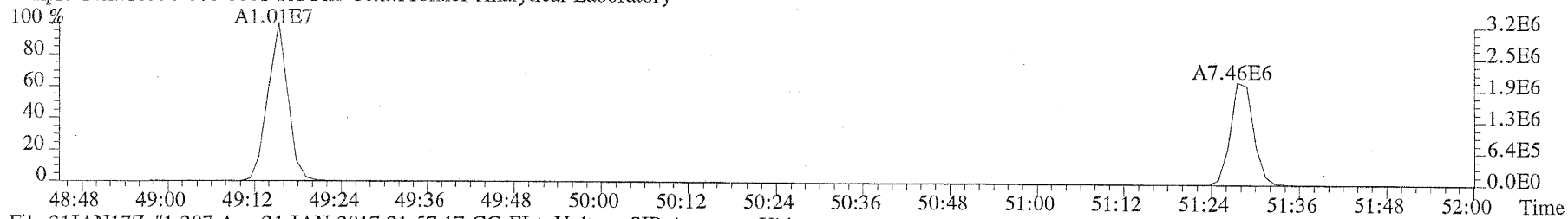
File:31JAN17Z #1-307 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



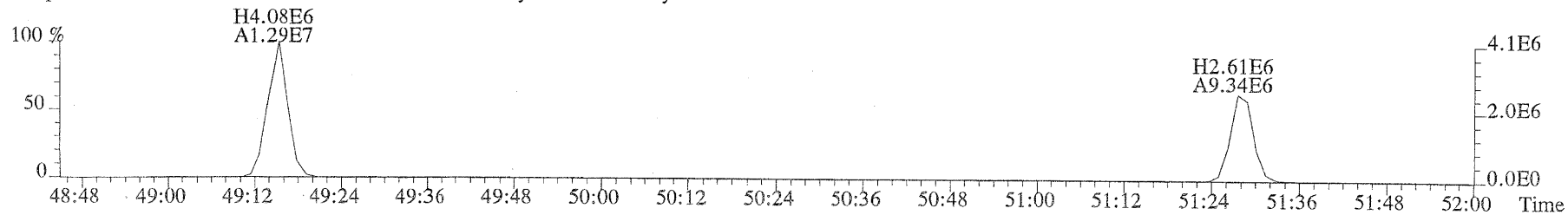
File:31JAN17Z #1-307 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



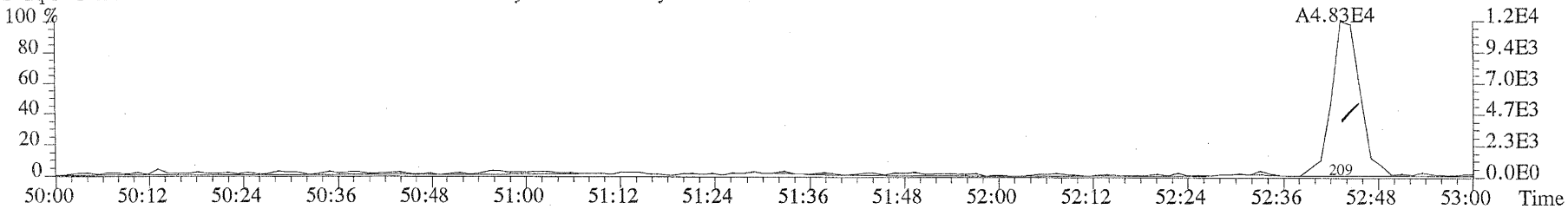
File:31JAN17Z #1-307 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



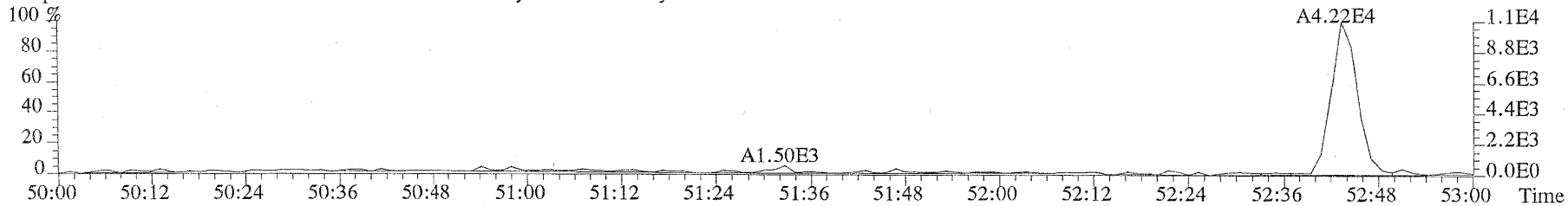
File:31JAN17Z #1-307 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



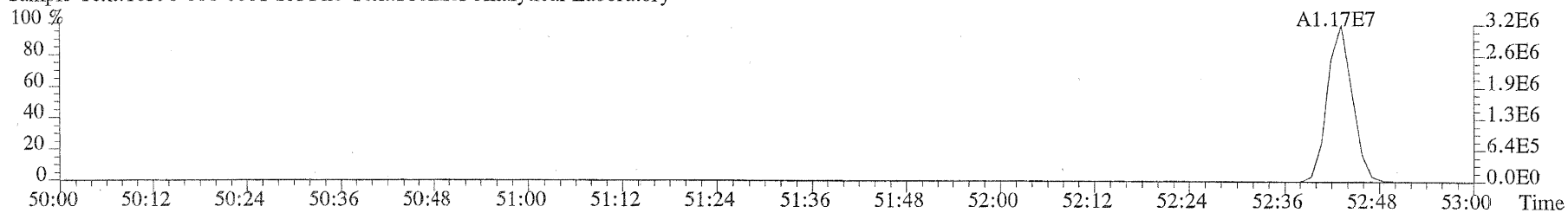
File:31JAN17Z #1-307 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



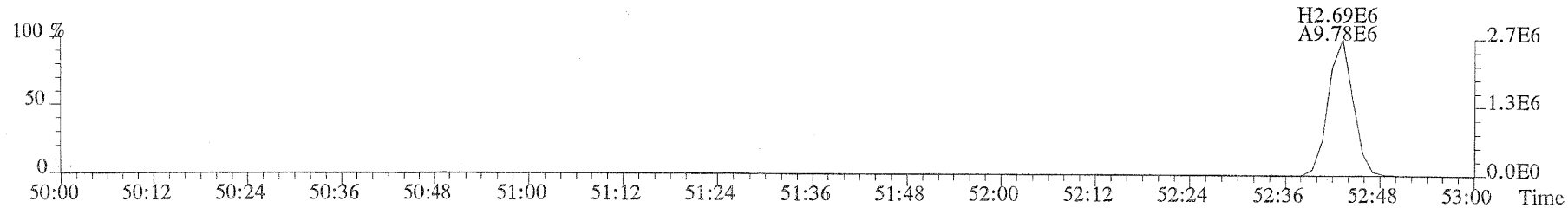
File:31JAN17Z #1-307 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 21:57:17 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-006-0001-SA File Text:Frontier Analytical Laboratory



FAL ID: 10398-007-0001-SA Filename: 31JAN17Z Sam:11 Acquired: 31-JAN-17 22:55:37 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-S010-LCB-EXSITU ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	S/N-1	S/N-2	Rec
PCB-1	*	*	n	NotFnd	0.98	*		1100	950	4.06	*	*	
13C-PCB-1	4.09e+07	3.28	y	14:31	1.01	8870					7900	530	89
PCB-2	*	*	n	NotFnd	0.89	*		1100	950	4.95	*	*	
PCB-3	*	*	n	NotFnd	1.03	*		1100	950	4.78	*	*	
13C-PCB-3	3.88e+07	3.29	y	16:58	0.97	8850					6400	430	89
PCB-4	*	*	n	NotFnd	1.05	*		1700	3200	15.5	*	*	
PCB-10	*	*	n	NotFnd	1.13	*		1700	3200	13.8	*	*	
13C-PCB-4	2.70e+07	1.57	y	18:11	0.63	9500					2900	1700	95
PCB-9	*	*	n	NotFnd	1.19	*		1700	3200	13.1	*	*	
PCB-7	*	*	n	NotFnd	1.27	*		1700	3200	12.3	*	*	
PCB-6	*	*	n	NotFnd	1.23	*		1700	3200	12.6	*	*	
PCB-8	*	*	n	NotFnd	1.11	*		1700	3200	14.0	*	*	
PCB-5	*	*	n	NotFnd	1.29	*		1700	3200	12.1	*	*	
PCB-14	5.38e+05	1.38	y	21:59	1.15	141		1700	3200	13.5	31	16	
PCB-11	*	*	n	NotFnd	1.08	*		1700	3200	14.3	*	*	
PCB-13	*	*	n	NotFnd	1.08	*		1700	3200	14.4	*	*	
PCB-12	*	*	n	NotFnd	1.13	*		1700	3200	13.7	*	*	
PCB-15	*	*	n	NotFnd	1.07	*		1700	3200	14.0	*	*	
13C-PCB-15	3.92e+07	1.60	y	23:46	0.94	9170					3100	1900	92
PCB-19	*	*	n	NotFnd	1.03	*		960	1100	8.08	*	*	
PCB-30	*	*	n	NotFnd	1.46	*		960	1100	5.68	*	*	
PCB-18	*	*	n	NotFnd	1.02	*		960	1100	8.18	*	*	
PCB-17	*	*	n	NotFnd	1.10	*		960	1100	7.52	*	*	
PCB-27	*	*	n	NotFnd	1.41	*		960	1100	5.90	*	*	
PCB-24	*	*	n	NotFnd	1.44	*		960	1100	5.75	*	*	
PCB-16	*	*	n	NotFnd	1.18	*		960	1100	7.01	*	*	
PCB-32	*	*	n	NotFnd	1.29	*		960	1100	6.45	*	*	
13C-PCB-19	2.31e+07	1.07	y	22:05	0.57	8870					140	210	89
13C-PCB-9	4.54e+07	1.59	y	19:53	-	61.5					4500	2700	
PCB-34	*	*	n	NotFnd	0.98	*		780	510	6.75	*	*	
PCB-23	*	*	n	NotFnd	1.24	*		780	510	5.32	*	*	
PCB-29	*	*	n	NotFnd	1.12	*		780	510	5.88	*	*	
PCB-26	*	*	n	NotFnd	1.11	*		780	510	5.96	*	*	
PCB-25	*	*	n	NotFnd	1.36	*		780	510	4.85	*	*	
PCB-31	*	*	n	NotFnd	1.13	*		780	510	5.85	*	*	
PCB-28	*	*	n	NotFnd	1.34	*		780	510	4.92	*	*	
PCB-20/21/33	*	*	n	NotFnd	1.18	*		780	510	5.58	*	*	
PCB-22	*	*	n	NotFnd	1.17	*		780	510	5.67	*	*	
PCB-36	2.13e+06	1.07	y	28:21	1.05	639		780	510	6.32	220	310	
PCB-39	*	*	n	NotFnd	1.07	*		780	510	6.17	*	*	
PCB-38	*	*	n	NotFnd	1.09	*		780	510	6.05	*	*	
PCB-35	*	*	n	NotFnd	0.97	*		780	510	6.83	*	*	
PCB-37	*	*	n	NotFnd	1.14	*		780	510	5.80	*	*	
13C-PCB-37	3.19e+07	1.06	y	30:26	1.14	10300					69	46	100

PCB-54	*	*	n	NotFnd	0.99	*	1200	1200	8.97	*	*	
PCB-50	*	*	n	NotFnd	0.74	*	1200	1200	12.1	*	*	
PCB-53	*	*	n	NotFnd	0.74	*	1200	1200	12.1	*	*	
PCB-51	*	*	n	NotFnd	0.75	*	1200	1200	11.8	*	*	
PCB-45	*	*	n	NotFnd	0.65	*	1200	1200	13.7	*	*	
PCB-46	*	*	n	NotFnd	0.62	*	1200	1200	14.4	*	*	
PCB-52/69	*	*	n	NotFnd	0.95	*	1200	1200	9.34	*	*	
PCB-73	*	*	n	NotFnd	0.85	*	1200	1200	10.5	*	*	
PCB-43/49	*	*	n	NotFnd	0.72	*	1200	1200	12.4	*	*	
PCB-47	*	*	n	NotFnd	0.91	*	1200	1200	9.74	*	*	
PCB-48/75	*	*	n	NotFnd	0.90	*	1200	1200	9.84	*	*	
PCB-65	*	*	n	NotFnd	0.95	*	1200	1200	9.40	*	*	
PCB-62	*	*	n	NotFnd	0.84	*	1200	1200	10.6	*	*	
PCB-44	*	*	n	NotFnd	0.64	*	1200	1200	13.9	*	*	
PCB-42/59	*	*	n	NotFnd	0.87	*	1200	1200	10.2	*	*	
PCB-41/64/71/72	*	*	n	NotFnd	0.94	*	1200	1200	9.50	*	*	
PCB-68	*	*	n	NotFnd	0.99	*	1200	1200	8.95	*	*	
PCB-40	*	*	n	NotFnd	0.56	*	1200	1200	16.0	*	*	
PCB-57	*	*	n	NotFnd	0.94	*	1200	1200	9.48	*	*	
PCB-67	*	*	n	NotFnd	0.86	*	1200	1200	10.3	*	*	
PCB-58	*	*	n	NotFnd	0.99	*	1200	1200	9.01	*	*	
PCB-63	*	*	n	NotFnd	0.95	*	1200	1200	9.37	*	*	
PCB-74	*	*	n	NotFnd	0.97	*	1200	1200	9.14	*	*	
PCB-61/70	*	*	n	NotFnd	1.03	*	1200	1200	8.68	*	*	
PCB-66/76	*	*	n	NotFnd	0.99	*	1200	1200	9.02	*	*	
PCB-80	*	*	n	NotFnd	1.07	*	1200	1200	8.32	*	*	
PCB-55	*	*	n	NotFnd	0.97	*	1200	1200	9.22	*	*	
13C-PCB-54	2.94e+07	0.79	y	25:38	1.12	9620				2700	4500	96
PCB-104	2.10e+06	1.62	y	30:05	1.06	947	310	520	4.28	870	330	
PCB-96	*	*	n	NotFnd	0.99	*	310	520	4.59	*	*	
PCB-103	*	*	n	NotFnd	0.82	*	310	520	5.51	*	*	
PCB-100	*	*	n	NotFnd	0.82	*	310	520	5.54	*	*	
PCB-94	*	*	n	NotFnd	0.68	*	310	520	6.63	*	*	
PCB-98/102	*	*	n	NotFnd	0.87	*	310	520	5.23	*	*	
PCB-95	*	*	n	NotFnd	0.74	*	310	520	6.15	*	*	
PCB-93	*	*	n	NotFnd	0.70	*	310	520	6.51	*	*	
PCB-88/91	*	*	n	NotFnd	0.79	*	310	520	5.73	*	*	
PCB-121	2.89e+06	1.58	y	33:33	0.93	1490	310	520	4.89	1200	460	
13C-PCB-104	2.09e+07	1.59	y	30:04	0.82	9330				6000	5200	93
13C-PCB-28	3.85e+07	1.01	y	26:44	1.38	10300				120	79	100
13C-PCB-52	2.72e+07	0.79	y	28:59	-	54.7				2500	4200	
PCB-56/60	*	*	n	NotFnd	1.06	*	690	500	5.94	*	*	
PCB-79	*	*	n	NotFnd	1.08	*	690	500	5.82	*	*	
PCB-78	3.27e+06	0.78	y	35:43	1.03	1110	690	500	6.15	340	590	
PCB-81	*	*	n	NotFnd	1.07	*	690	500	5.62	*	*	
13C-PCB-81	2.91e+07	0.79	y	36:12	1.02	11400				2600	4400	110
PCB-77	*	*	n	NotFnd	0.99	*	690	500	6.72	*	*	
13C-PCB-77	2.85e+07	0.79	y	36:47	1.01	11200				2300	4000	110

PCB-155	3.63e+06	1.29	y	34:16	1.01	1590	330	380	3.69	1300	850	
PCB-150	*	*	n	NotFnd	0.91	*	330	380	4.08	*	*	
PCB-152	*	*	n	NotFnd	0.90	*	330	380	4.13	*	*	
PCB-145	*	*	n	NotFnd	0.89	*	330	380	4.19	*	*	
PCB-136	*	*	n	NotFnd	0.93	*	330	380	4.01	*	*	
PCB-148	*	*	n	NotFnd	0.64	*	330	380	5.79	*	*	
PCB-154	*	*	n	NotFnd	0.78	*	330	380	4.77	*	*	
13C-PCB-155	2.26e+07	1.28	y	34:14	1.02	8790				5900	3500	88
13C-PCB-111	2.85e+07	1.58	y	36:20	1.11	10200				1700	1500	100
13C-PCB-101	2.52e+07	1.62	y	34:41	-	55.8				1500	1300	
PCB-84/92	*	*	n	NotFnd	0.79	*	690	770	8.55	*	*	
PCB-89	*	*	n	NotFnd	0.73	*	690	770	9.34	*	*	
PCB-90/101	*	*	n	NotFnd	0.85	*	690	770	8.00	*	*	
PCB-113	*	*	n	NotFnd	1.01	*	690	770	6.74	*	*	
PCB-99	*	*	n	NotFnd	0.88	*	690	770	7.68	*	*	
PCB-119	*	*	n	NotFnd	1.08	*	690	770	6.27	*	*	
PCB-83/112	*	*	n	NotFnd	0.84	*	690	770	8.06	*	*	
PCB-109	*	*	n	NotFnd	1.01	*	690	770	6.69	*	*	
PCB-97	*	*	n	NotFnd	0.92	*	690	770	7.35	*	*	
PCB-86	*	*	n	NotFnd	0.82	*	690	770	8.30	*	*	
PCB-87/117/125	*	*	n	NotFnd	0.95	*	690	770	7.14	*	*	
PCB-111/115	*	*	n	NotFnd	1.16	*	690	770	5.84	*	*	
PCB-85/116	*	*	n	NotFnd	0.89	*	690	770	7.63	*	*	
PCB-120	*	*	n	NotFnd	1.12	*	690	770	6.07	*	*	
PCB-110	*	*	n	NotFnd	1.07	*	690	770	6.35	*	*	
PCB-82	*	*	n	NotFnd	0.63	*	690	770	10.8	*	*	
PCB-124	*	*	n	NotFnd	1.04	*	400	780	5.25	*	*	
PCB-107/108	*	*	n	NotFnd	0.99	*	400	780	5.51	*	*	
PCB-123	*	*	n	NotFnd	1.22	*	400	780	4.35	*	*	
13C-PCB-123	2.68e+07	1.58	y	38:23	1.07	10400				190	230	100
PCB-118/106	*	*	n	NotFnd	0.96	*	400	780	5.77	*	*	
13C-PCB-118	3.01e+07	1.63	y	38:33	1.18	10500				180	220	110
PCB-114	*	*	n	NotFnd	1.07	*	400	780	5.06	*	*	
13C-PCB-114	2.84e+07	1.60	y	39:11	1.11	10600				180	220	110
PCB-122	*	*	n	NotFnd	0.96	*	400	780	5.70	*	*	
PCB-105	*	*	n	NotFnd	1.02	*	400	780	5.52	*	*	
13C-PCB-105	2.82e+07	1.58	y	40:00	1.09	10800				180	210	110
PCB-127	*	*	n	NotFnd	0.89	*	400	780	6.15	*	*	
PCB-126	*	*	n	NotFnd	1.05	*	400	780	6.93	*	*	
13C-PCB-126	2.52e+07	1.66	y	42:08	0.90	11700				140	170	120
PCB-151	*	*	n	NotFnd	0.81	*	380	340	4.45	*	*	
PCB-135	*	*	n	NotFnd	0.80	*	380	340	4.50	*	*	
PCB-144	*	*	n	NotFnd	0.85	*	380	340	4.24	*	*	
PCB-147	*	*	n	NotFnd	0.95	*	380	340	3.83	*	*	
PCB-139/149	*	*	n	NotFnd	0.91	*	380	340	3.96	*	*	
PCB-140	*	*	n	NotFnd	0.91	*	380	340	3.98	*	*	
PCB-134/143	*	*	n	NotFnd	0.83	*	380	340	4.34	*	*	
PCB-131/133	*	*	n	NotFnd	0.85	*	380	340	4.25	*	*	
PCB-142	2.71e+06	1.25	y	39:32	0.73	1430	380	340	4.96	800	700	
PCB-146/165	*	*	n	NotFnd	1.00	*	380	340	3.61	*	*	
PCB-132/161	*	*	n	NotFnd	0.97	*	380	340	3.73	*	*	
PCB-153	6.68e+04	1.39	y	40:13	0.90	28.6	380	340	4.03	18	17	
PCB-168	*	*	n	NotFnd	1.10	*	380	340	3.30	*	*	
PCB-141	*	*	n	NotFnd	0.84	*	380	340	4.30	*	*	
PCB-137	*	*	n	NotFnd	0.91	*	380	340	3.99	*	*	

FAL ID: 10398-007-0001-SA Filename: 31JAN17Z Sam:11 Acquired: 31-JAN-17 22:55:37 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-S010-LCB-EXSITU ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

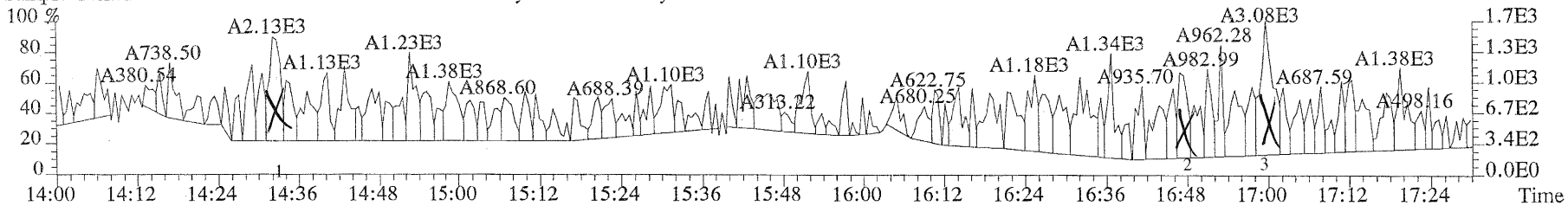
PCB-130	*	*	n	NotFnd	0.64	*	380	340	5.62	*	*	
PCB-138/163/164	*	*	n	NotFnd	1.10	*	380	340	3.30	*	*	
PCB-158/160	*	*	n	NotFnd	1.09	*	380	340	3.32	*	*	
PCB-129	*	*	n	NotFnd	0.69	*	380	340	5.21	*	*	
PCB-166	*	*	n	NotFnd	1.07	*	380	340	3.39	*	*	
PCB-159	*	*	n	NotFnd	1.06	*	380	340	3.40	*	*	
PCB-128/162	*	*	n	NotFnd	0.92	*	380	340	3.94	*	*	
PCB-167	*	*	n	NotFnd	0.93	*	380	340	3.73	*	*	
13C-PCB-167	2.68e+07	1.26	y	43:29	1.09	10200				870	1000	100
PCB-156	*	*	n	NotFnd	0.97	*	380	340	3.61	*	*	
13C-PCB-156	2.55e+07	1.27	y	44:43	1.01	10500				880	980	110
PCB-157	*	*	n	NotFnd	0.97	*	380	340	3.90	*	*	
13C-PCB-157	2.77e+07	1.27	y	45:00	1.04	11000				810	910	110
PCB-169	*	*	n	NotFnd	0.92	*	380	340	4.05	*	*	
13C-PCB-169	2.41e+07	1.27	y	46:52	0.87	11500				840	910	120
PCB-188	*	*	n	NotFnd	1.07	*	460	260	3.46	*	*	
13C-PCB-188	2.43e+07	1.07	y	39:45	1.14	8840				4300	7500	88
PCB-184	5.51e+06	1.04	y	40:12	1.21	1990	460	260	2.78	1300	2100	
PCB-179	*	*	n	NotFnd	1.17	*	460	260	2.88	*	*	
PCB-176	*	*	n	NotFnd	1.12	*	460	260	3.00	*	*	
PCB-186	*	*	n	NotFnd	1.12	*	460	260	2.99	*	*	
PCB-178	*	*	n	NotFnd	0.82	*	460	260	4.11	*	*	
PCB-175	*	*	n	NotFnd	0.87	*	460	260	3.88	*	*	
PCB-182/187	*	*	n	NotFnd	0.92	*	460	260	3.66	*	*	
PCB-183	*	*	n	NotFnd	0.91	*	460	260	3.68	*	*	
PCB-185	*	*	n	NotFnd	0.84	*	460	260	3.99	*	*	
PCB-174	*	*	n	NotFnd	0.93	*	460	260	3.62	*	*	
PCB-181	*	*	n	NotFnd	0.72	*	460	260	4.66	*	*	
PCB-177	*	*	n	NotFnd	0.76	*	460	260	4.40	*	*	
PCB-171	*	*	n	NotFnd	0.80	*	460	260	4.17	*	*	
PCB-173	*	*	n	NotFnd	0.73	*	460	260	4.59	*	*	
PCB-172	6.40e+04	0.98	y	45:29	0.75	36.9	460	260	4.46	15	29	
PCB-192	3.44e+06	1.09	y	45:42	0.97	1540	460	260	3.46	890	1400	
PCB-180	*	*	n	NotFnd	0.96	*	460	260	3.49	*	*	
PCB-193	*	*	n	NotFnd	1.06	*	460	260	3.17	*	*	
PCB-191	*	*	n	NotFnd	1.02	*	460	260	3.31	*	*	
PCB-170	*	*	n	NotFnd	0.70	*	460	260	4.83	*	*	
PCB-190	*	*	n	NotFnd	0.95	*	460	260	3.54	*	*	
PCB-189	*	*	n	NotFnd	1.04	*	460	260	2.85	*	*	
13C-PCB-189	2.17e+07	1.07	y	48:32	0.85	10600				5400	9300	110
PCB-202	*	*	n	NotFnd	0.90	*	270	280	4.15	*	*	
PCB-201	*	*	n	NotFnd	0.93	*	270	280	4.00	*	*	
PCB-204	5.04e+06	0.92	y	45:29	0.85	3210	270	280	4.41	2000	2100	
PCB-197	*	*	n	NotFnd	0.92	*	270	280	4.07	*	*	
PCB-200	*	*	n	NotFnd	0.88	*	270	280	4.23	*	*	
PCB-198	*	*	n	NotFnd	0.56	*	270	280	6.69	*	*	
PCB-199	*	*	n	NotFnd	0.68	*	270	280	5.47	*	*	
PCB-196/203	*	*	n	NotFnd	0.67	*	270	280	5.54	*	*	
13C-PCB-202	1.85e+07	0.92	y	44:53	0.92	8400				5000	5600	84
13C-PCB-178	1.70e+07	1.08	y	42:23	0.80	8850				3200	5400	89
13C-PCB-138	2.41e+07	1.28	y	41:37	-	58.7				830	910	

FAL ID: 10398-007-0001-SA Filename: 31JAN17Z Sam:11 Acquired: 31-JAN-17 22:55:37 ICal: DAILY209FAL4-1-31-17
Client ID: LDW-BA-SU-S010-LCB-EXSITU ConCal: ST013117Z1 EndCal: ST013117Z2
Results: 10398 GC Column: DB1MS Amount: 1.000

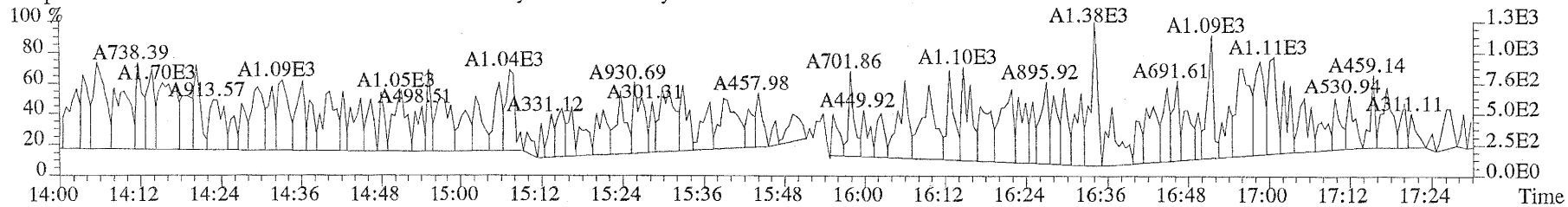
PCB-195	*	*	n	NotFnd	0.78	*		840	900	7.80	*	*	
PCB-194	*	*	n	NotFnd	0.83	*		840	900	7.33	*	*	
PCB-205	*	*	n	NotFnd	1.07	*		840	900	5.69	*	*	
13C-PCB-205	2.44e+07	0.92	y	50:14	1.19	9850					5900	4900	98
PCB-208	*	*	n	NotFnd	0.91	*		1100	990	7.98	*	*	
13C-PCB-208	2.40e+07	0.79	y	49:15	1.31	8860					6200	6500	89
PCB-207	2.96e+04	1.50	y	49:35	1.04	13.6	J	1100	990	7.82	5.8	4.0	
PCB-206	*	*	n	NotFnd	0.93	*		1100	990	10.1	*	*	
13C-PCB-206	1.76e+07	0.80	y	51:29	0.94	9040					4800	5000	90
PCB-209	*	*	n	NotFnd	0.99	*		1300	1200	10.6	*	*	
13C-PCB-209	2.26e+07	1.20	y	52:45	1.29	8430					12000	9900	84
13C-PCB-194	2.08e+07	0.92	y	49:58	-	65.9					5000	4300	

Analyst: _____ Date: 2/3/17

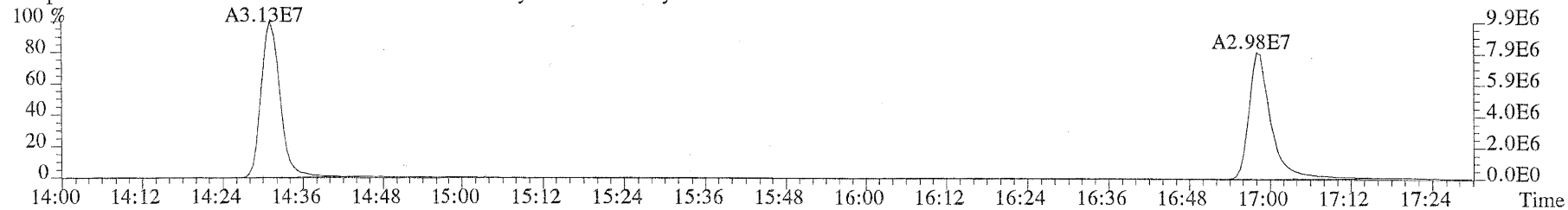
File:31JAN17Z #1-784 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



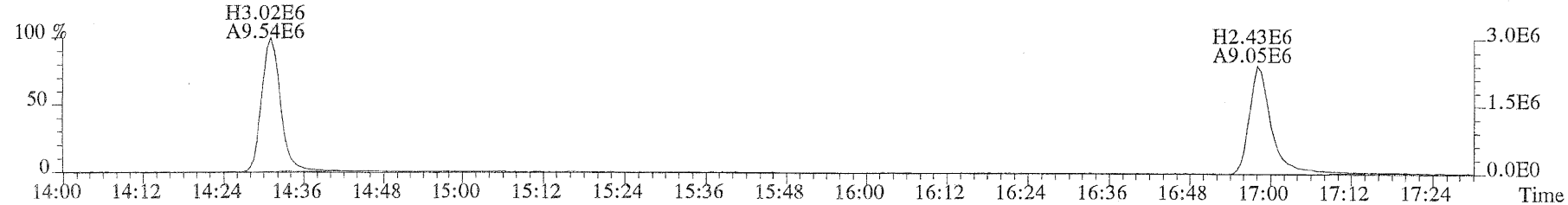
File:31JAN17Z #1-784 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



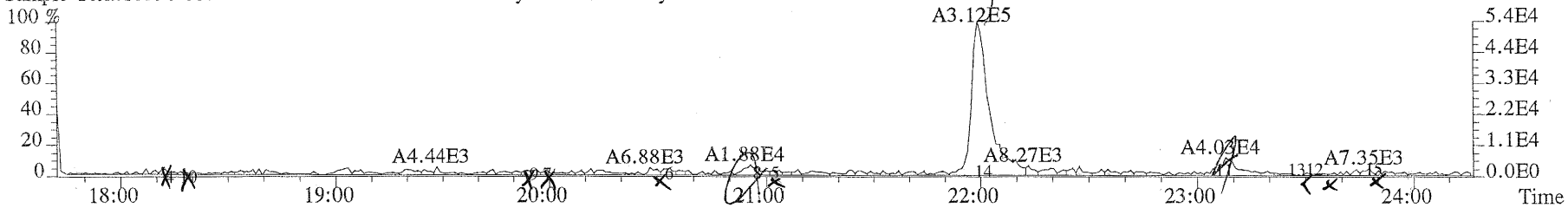
File:31JAN17Z #1-784 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



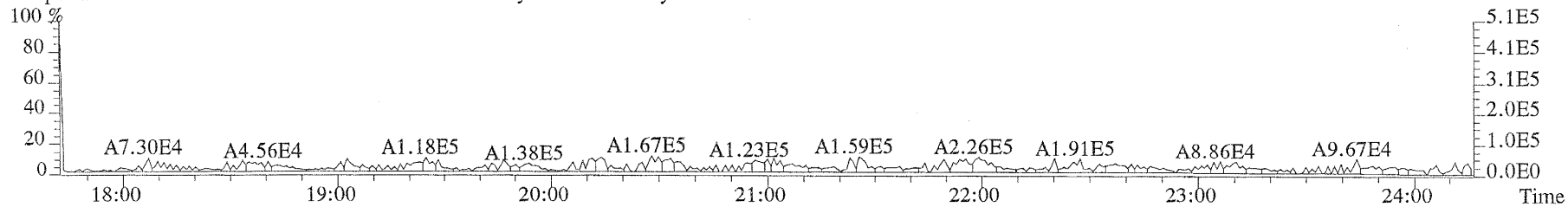
File:31JAN17Z #1-784 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



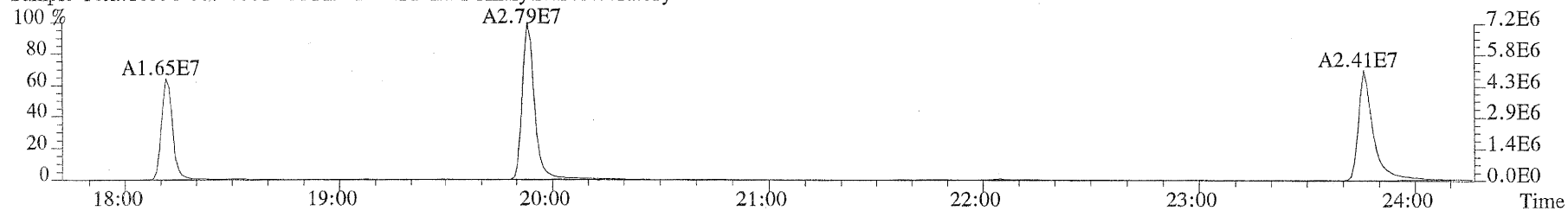
File:31JAN17Z #1-509 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



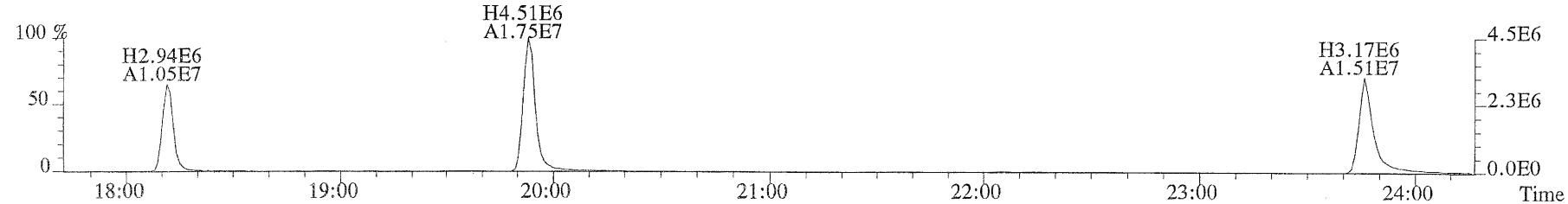
File:31JAN17Z #1-509 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



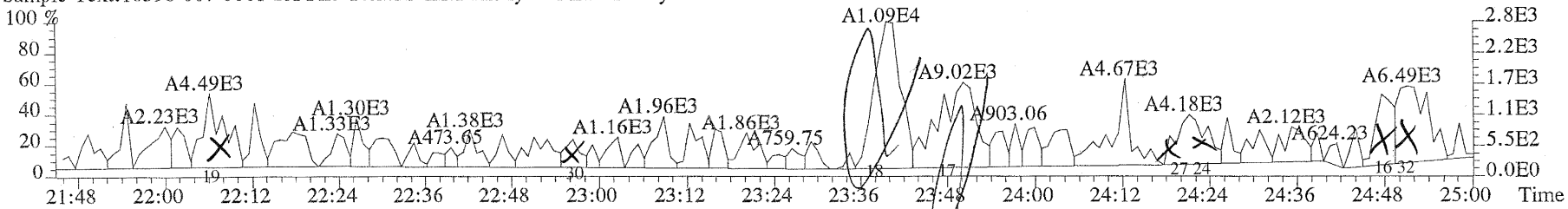
File:31JAN17Z #1-509 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



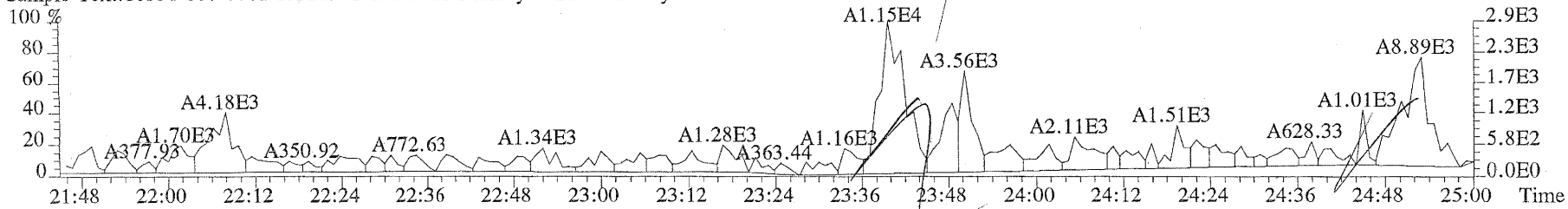
File:31JAN17Z #1-509 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:11 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



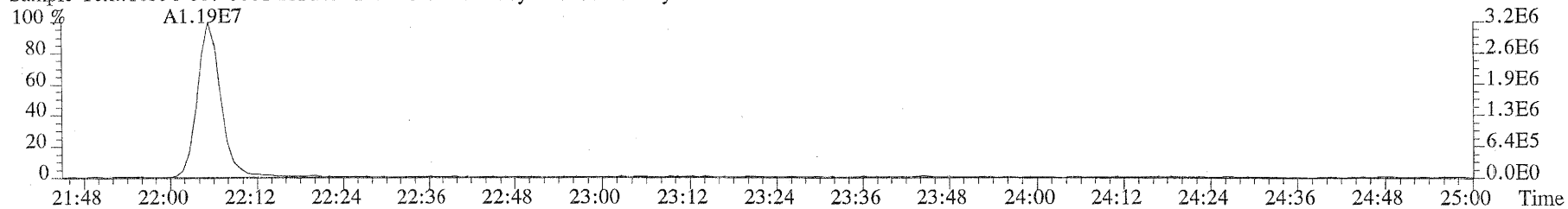
File:31JAN17Z #1-509 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



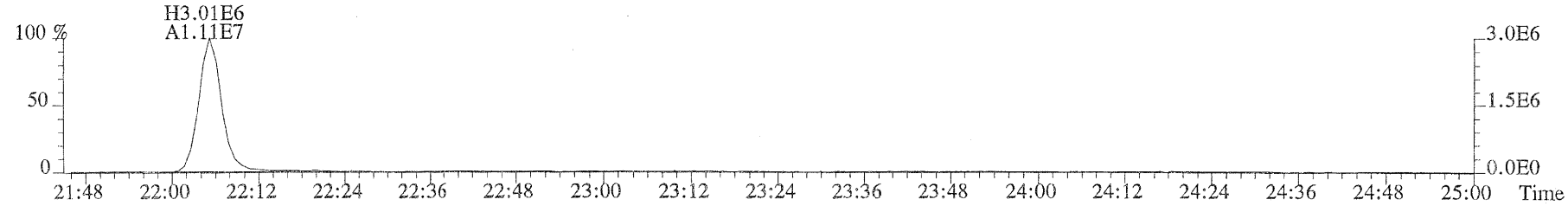
File:31JAN17Z #1-509 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



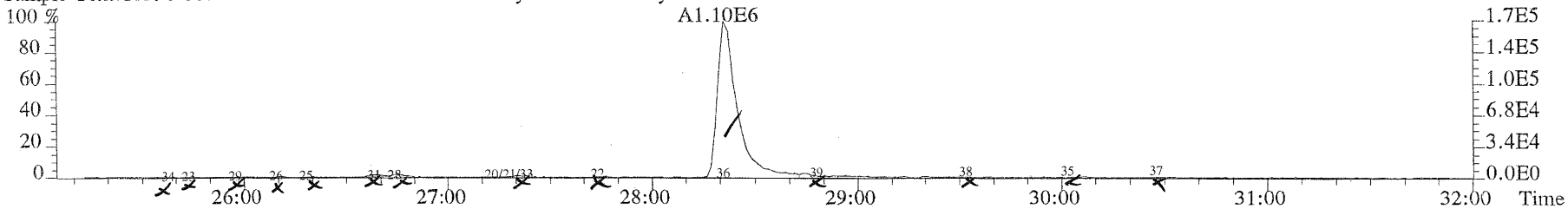
File:31JAN17Z #1-509 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



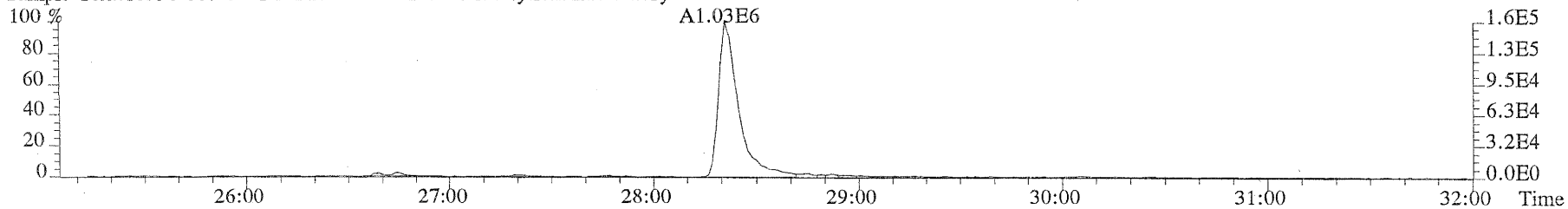
File:31JAN17Z #1-509 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



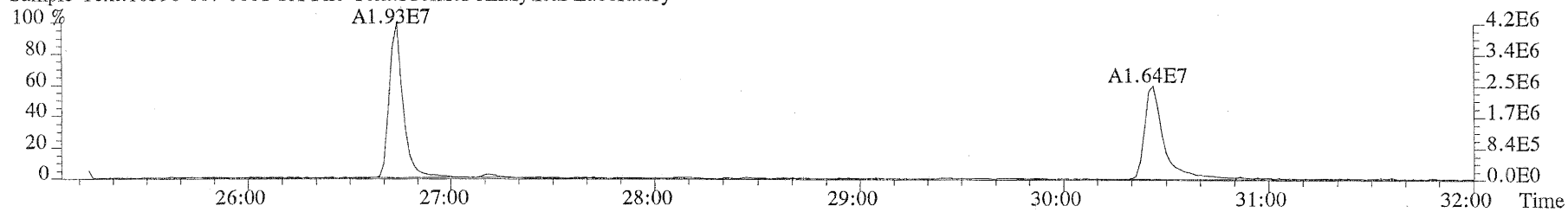
File:31JAN17Z #1-407 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



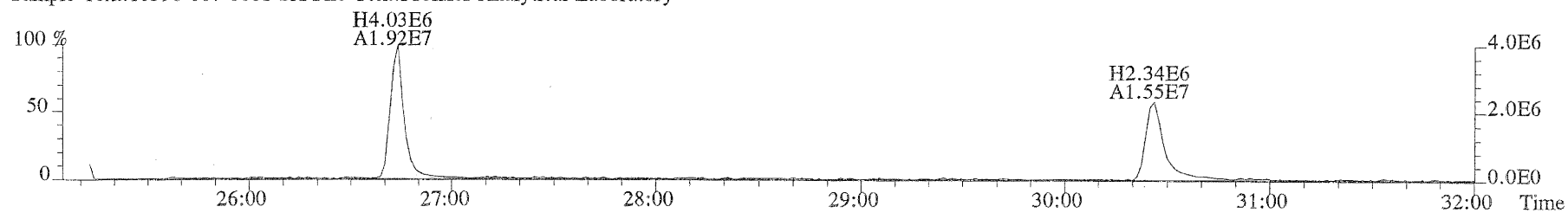
File:31JAN17Z #1-407 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



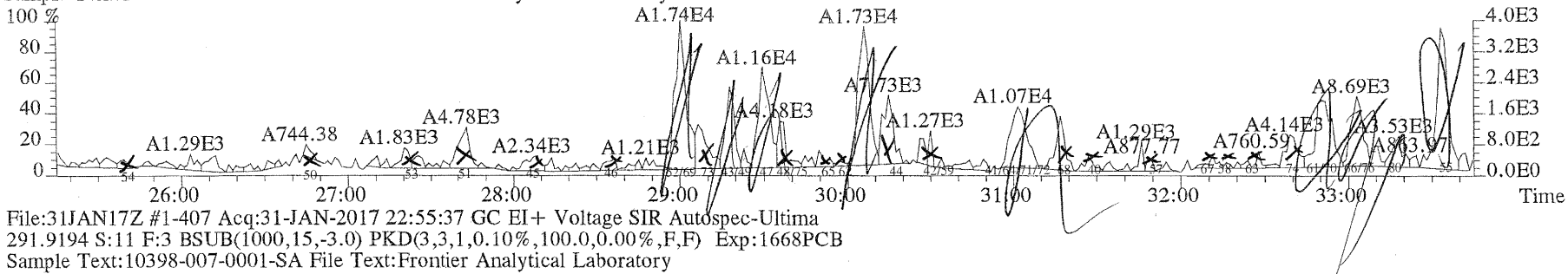
File:31JAN17Z #1-407 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



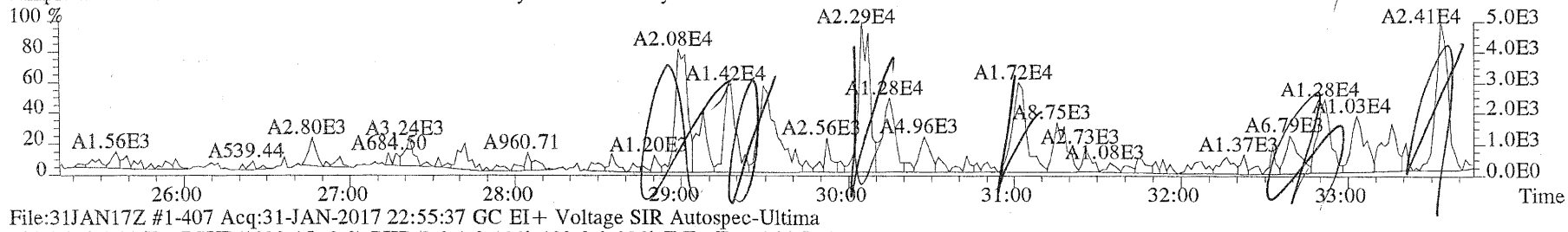
File:31JAN17Z #1-407 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



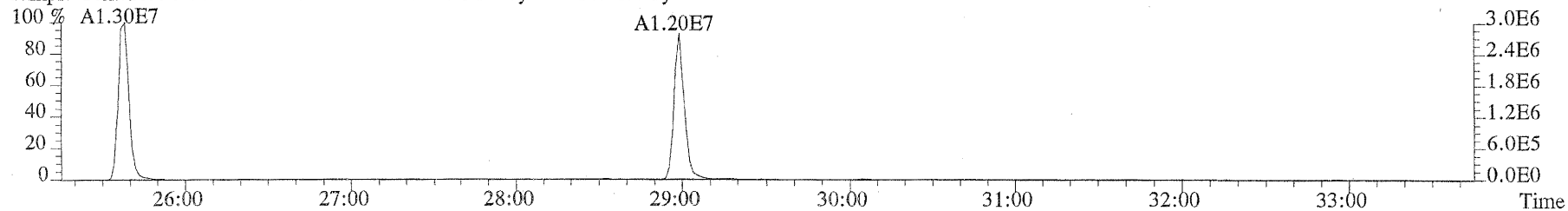
File:31JAN17Z #1-407 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



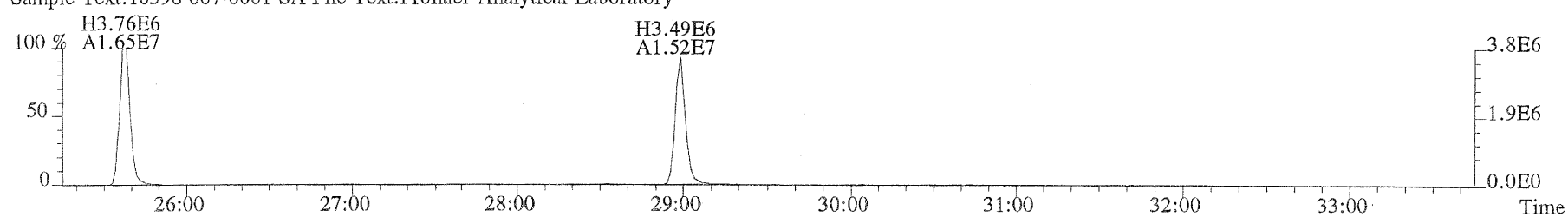
File:31JAN17Z #1-407 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



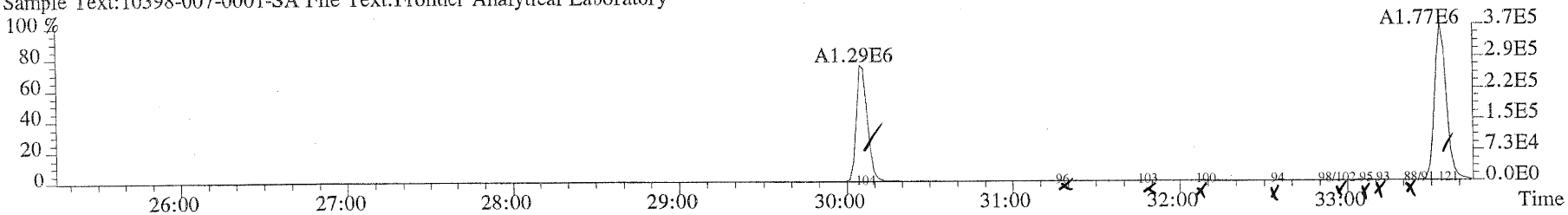
File:31JAN17Z #1-407 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



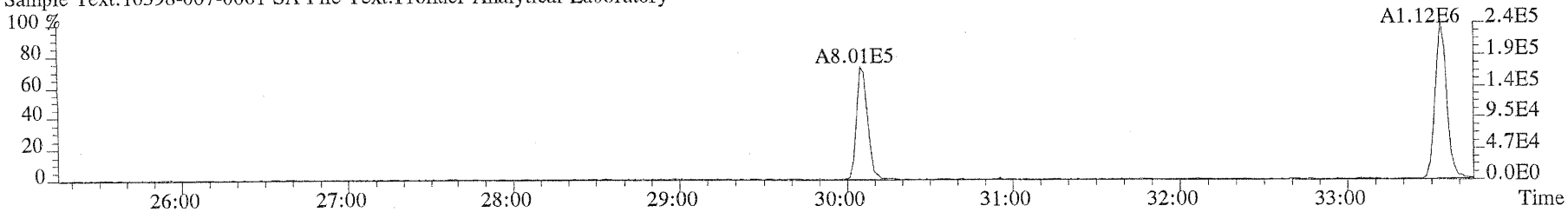
File:31JAN17Z #1-407 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



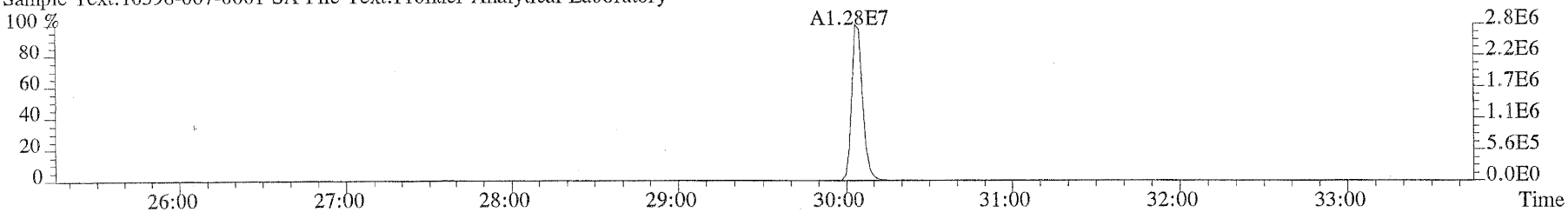
File:31JAN17Z #1-407 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



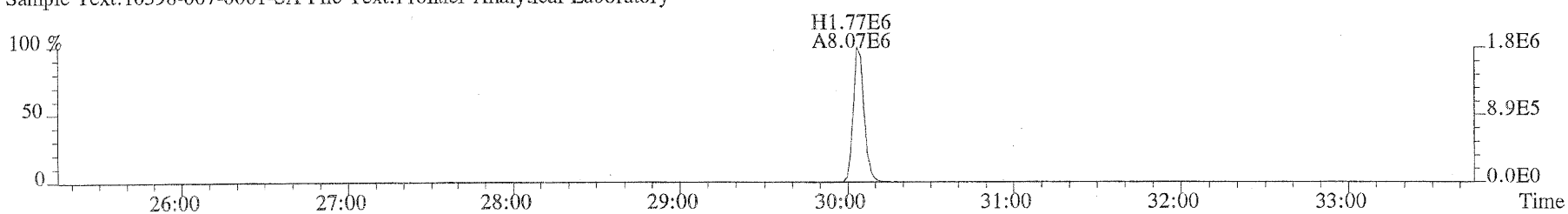
File:31JAN17Z #1-407 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



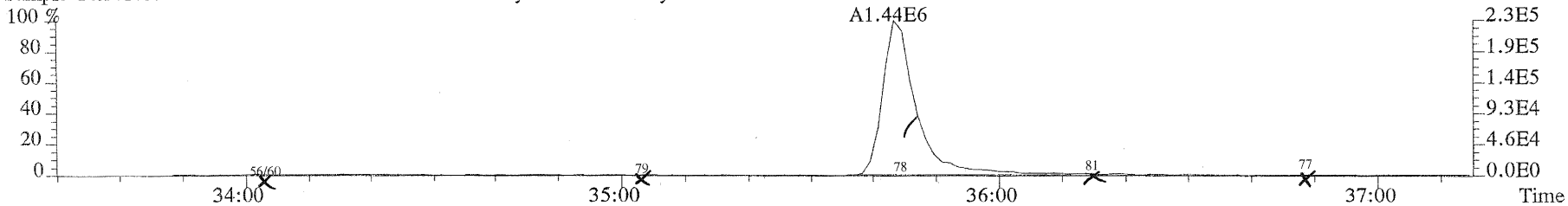
File:31JAN17Z #1-407 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



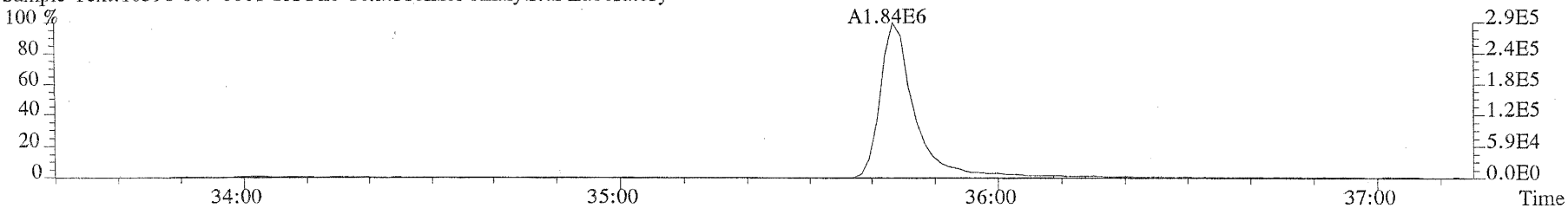
File:31JAN17Z #1-407 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



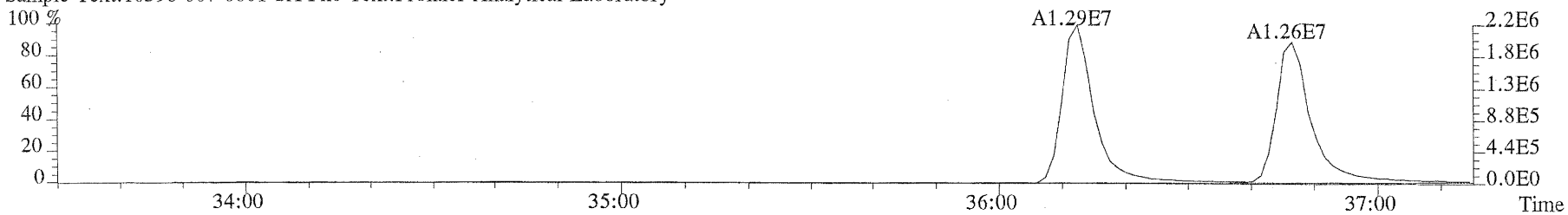
File:31JAN17Z #1-181 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



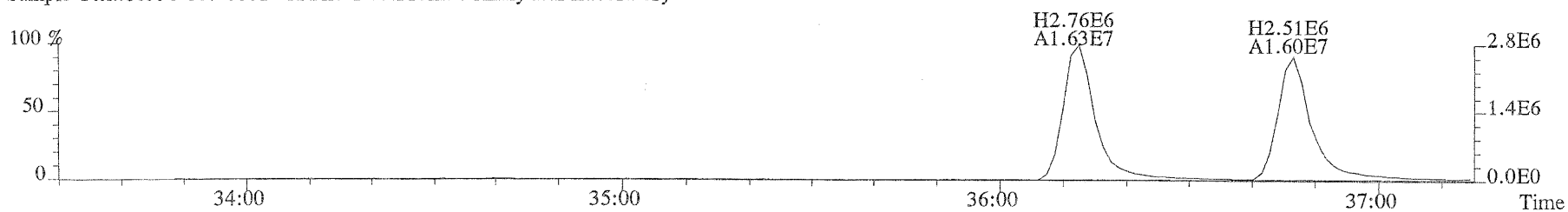
File:31JAN17Z #1-181 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



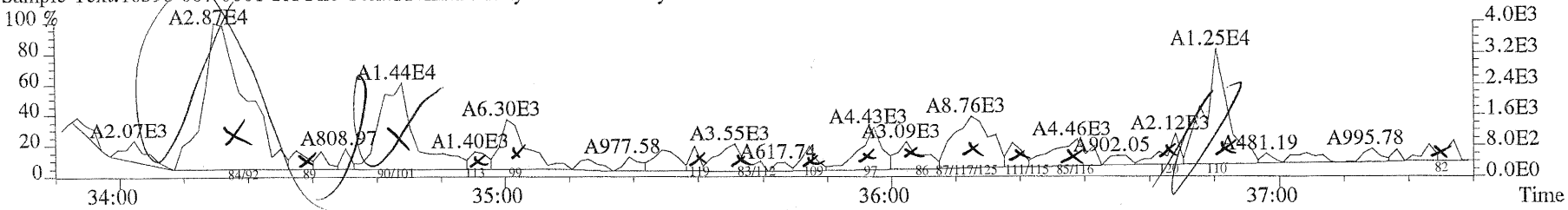
File:31JAN17Z #1-181 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



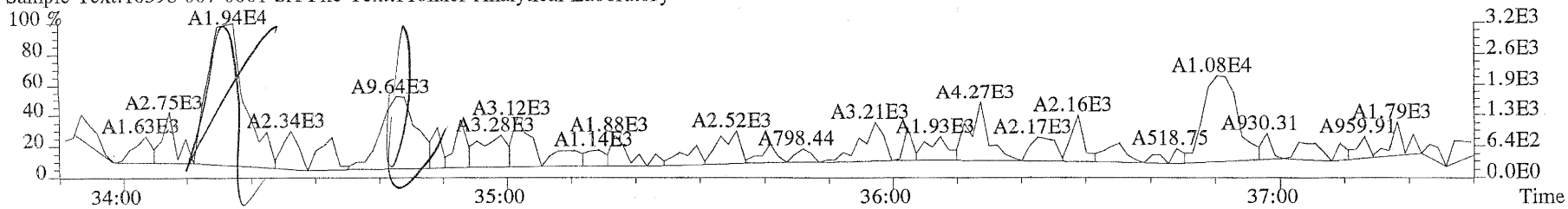
File:31JAN17Z #1-181 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



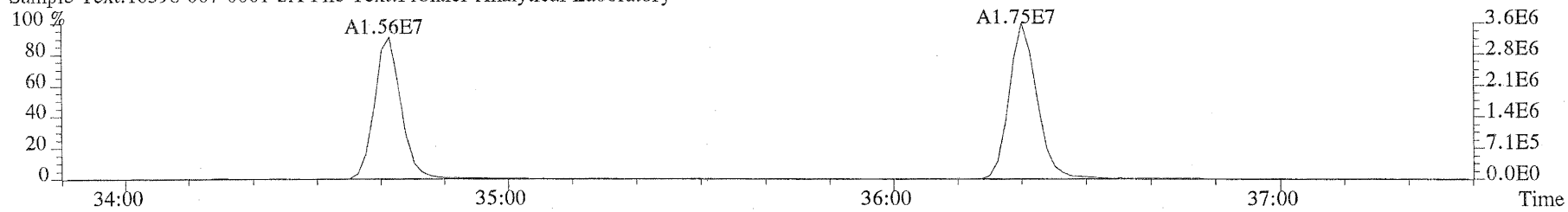
File:31JAN17Z #1-181 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



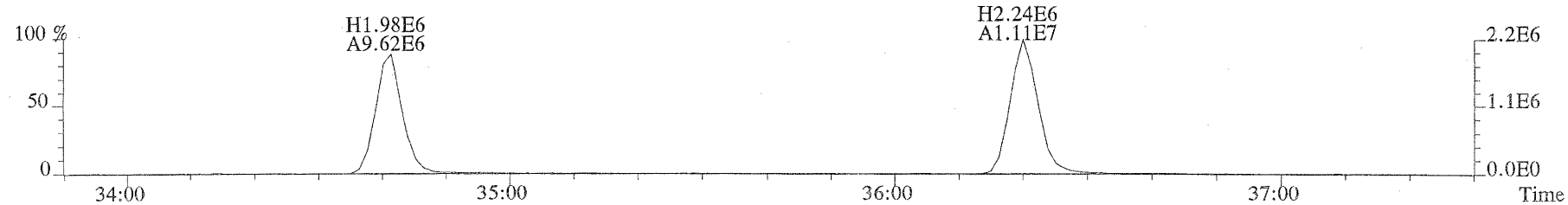
File:31JAN17Z #1-181 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



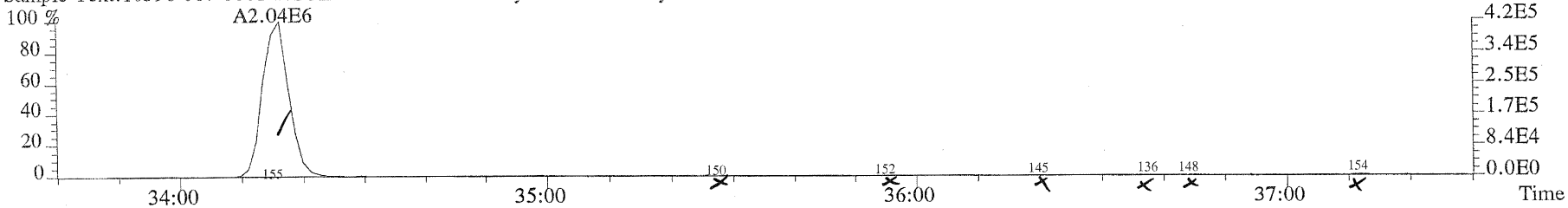
File:31JAN17Z #1-181 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



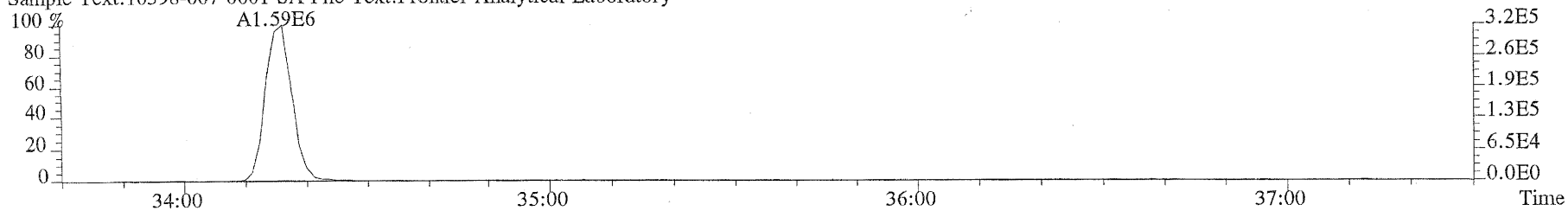
File:31JAN17Z #1-181 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



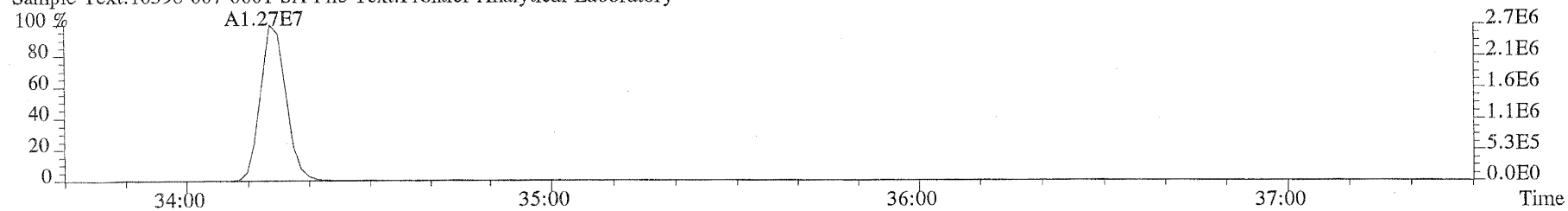
File:31JAN17Z #1-181 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



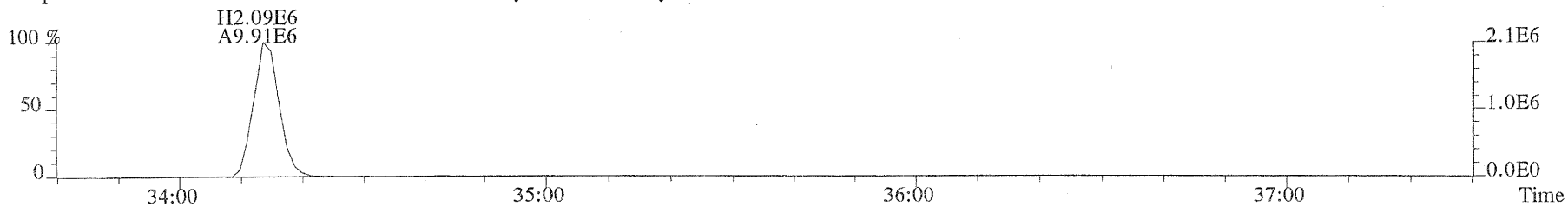
File:31JAN17Z #1-181 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



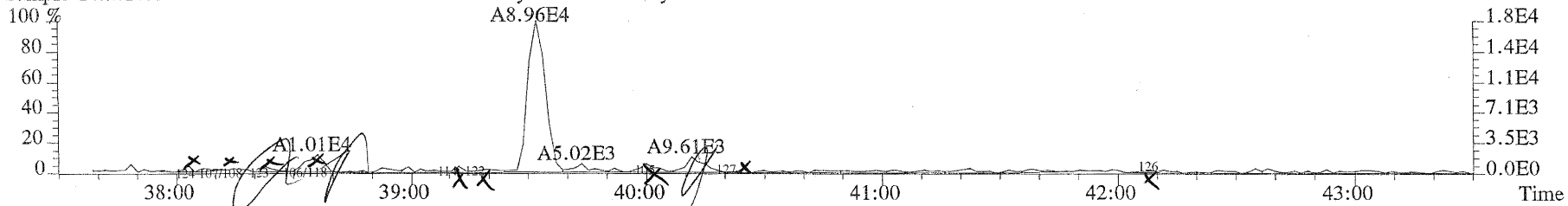
File:31JAN17Z #1-181 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



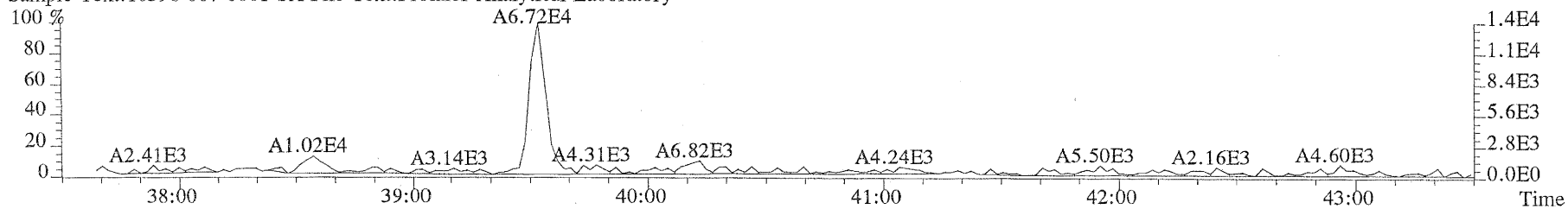
File:31JAN17Z #1-181 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



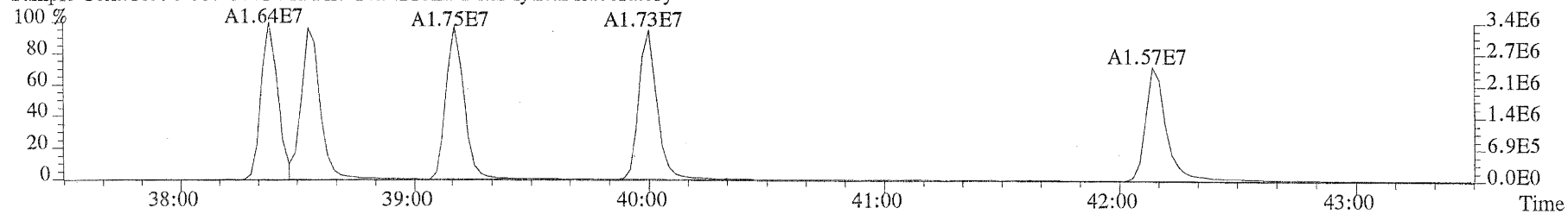
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



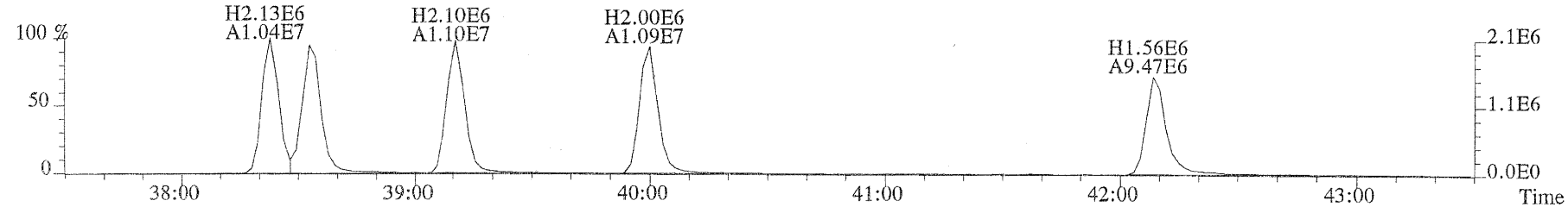
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



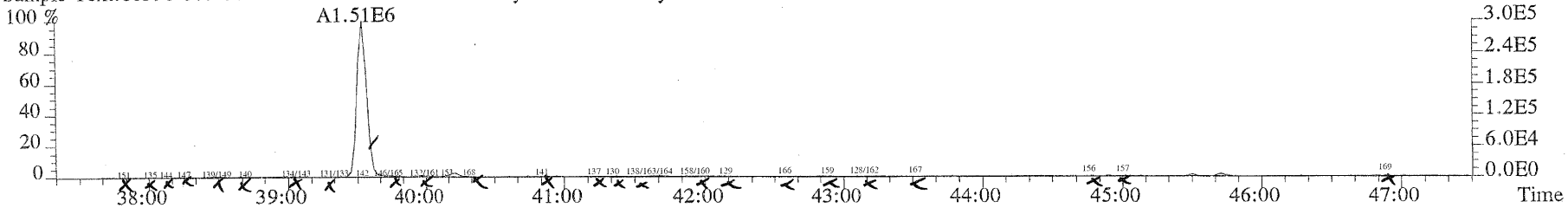
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



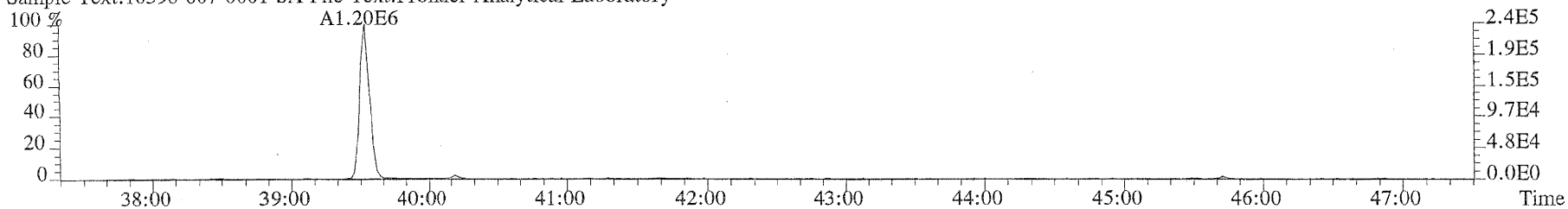
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



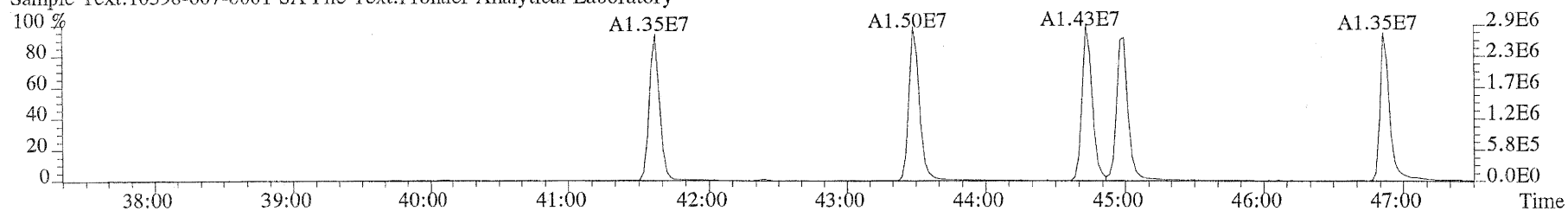
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



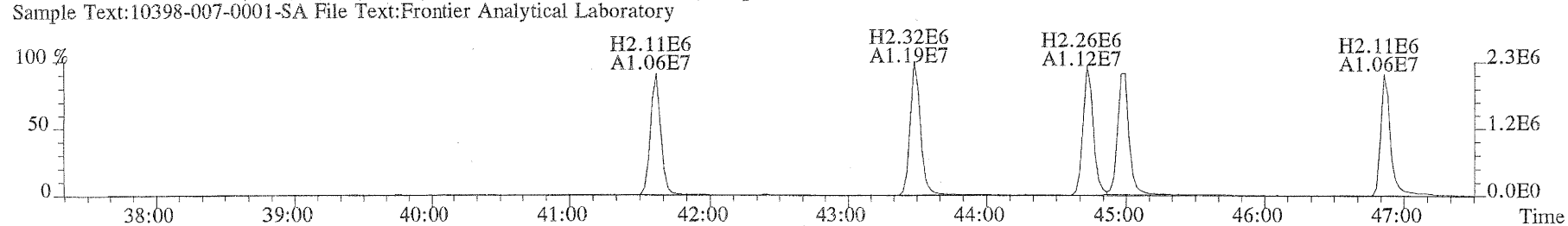
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



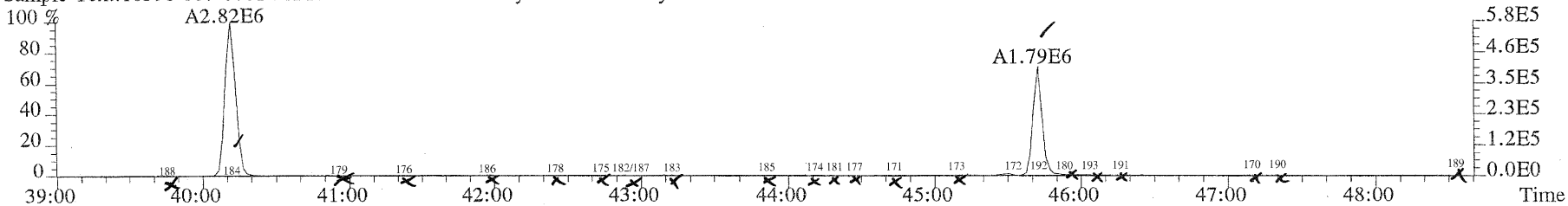
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



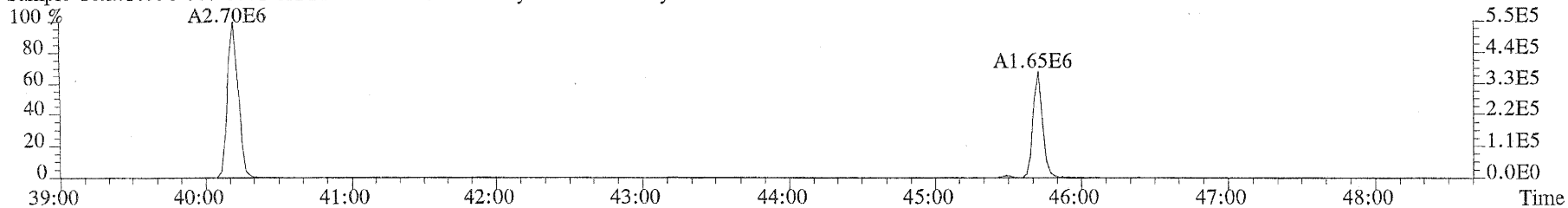
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



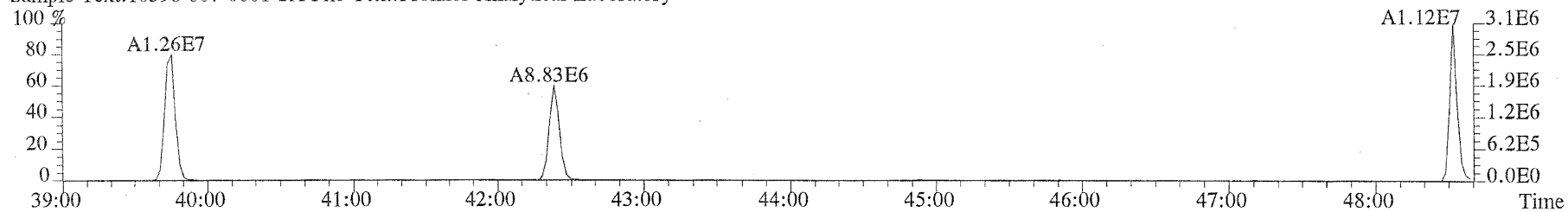
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



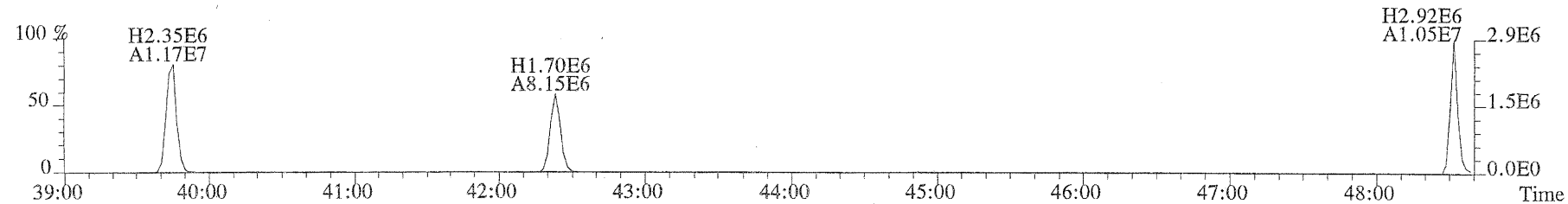
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



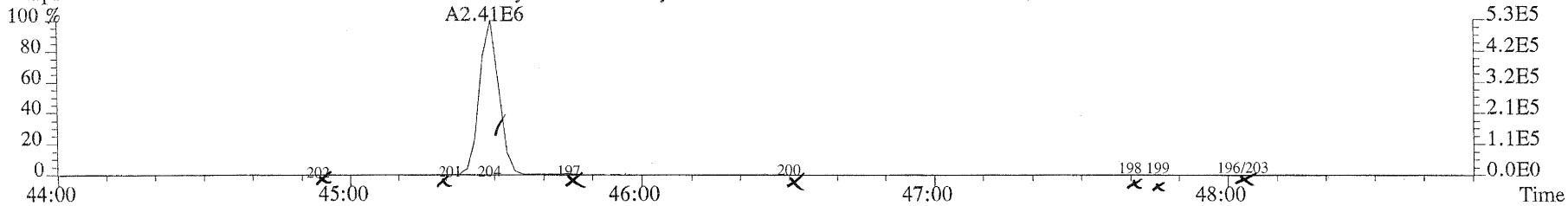
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



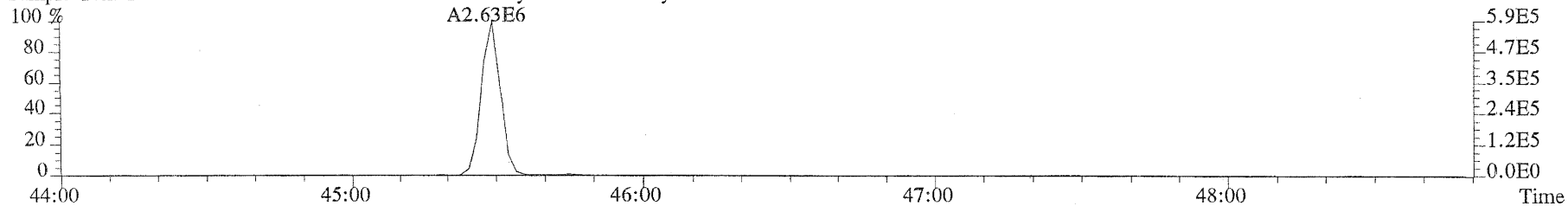
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



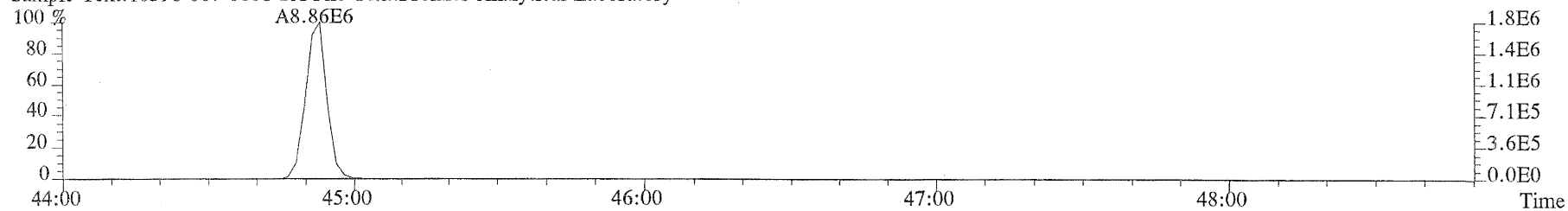
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



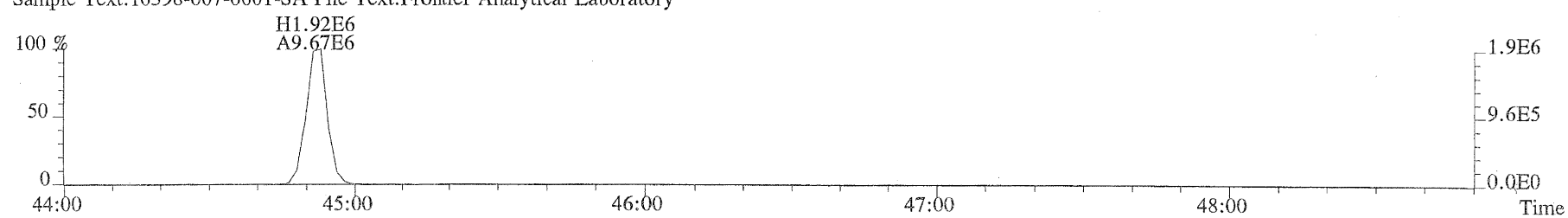
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



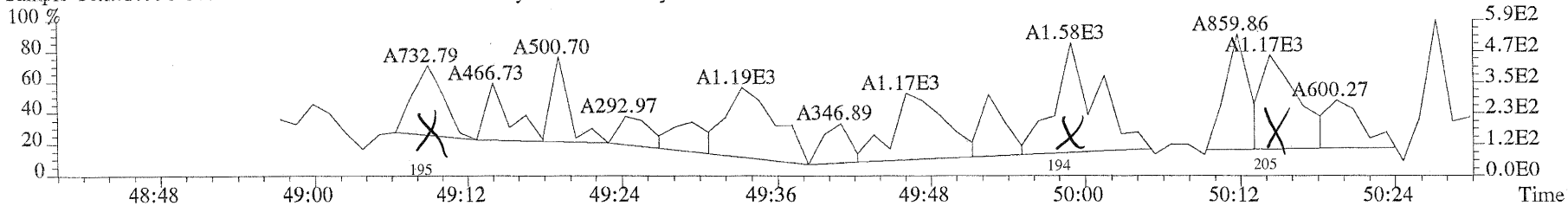
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



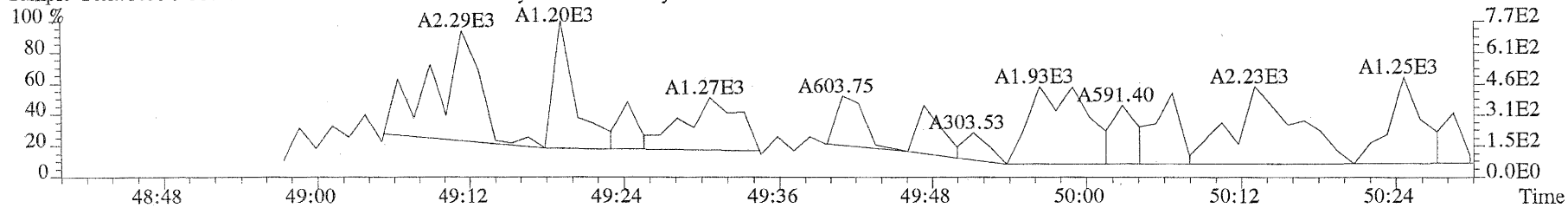
File:31JAN17Z #1-412 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



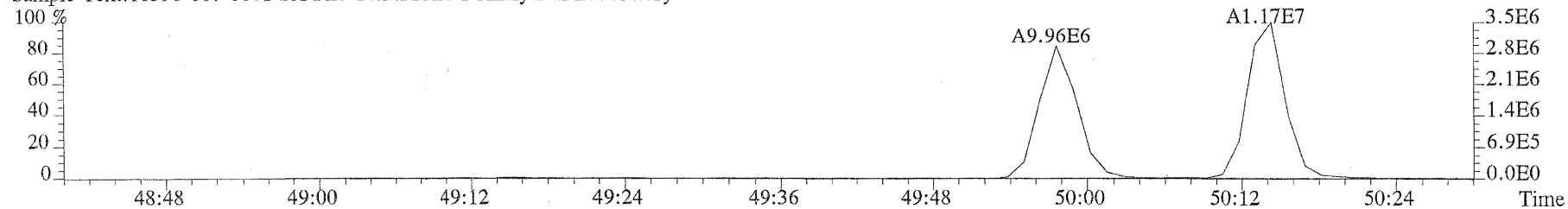
File:31JAN17Z #1-307 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



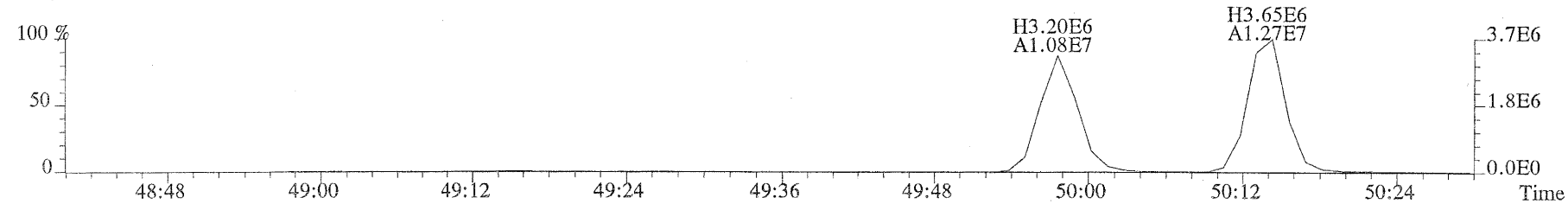
File:31JAN17Z #1-307 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



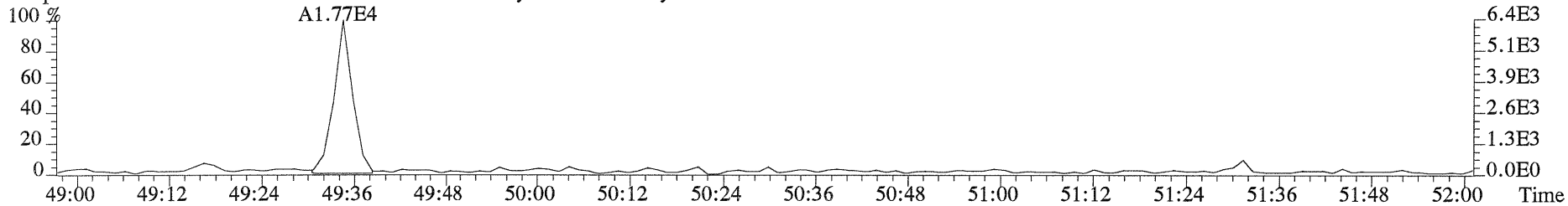
File:31JAN17Z #1-307 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



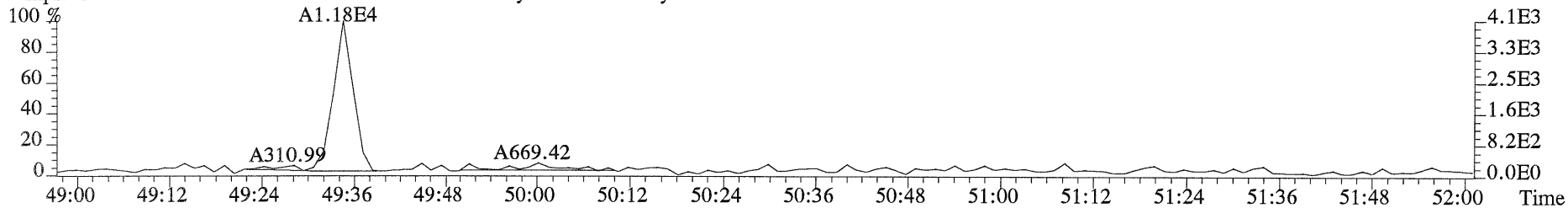
File:31JAN17Z #1-307 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



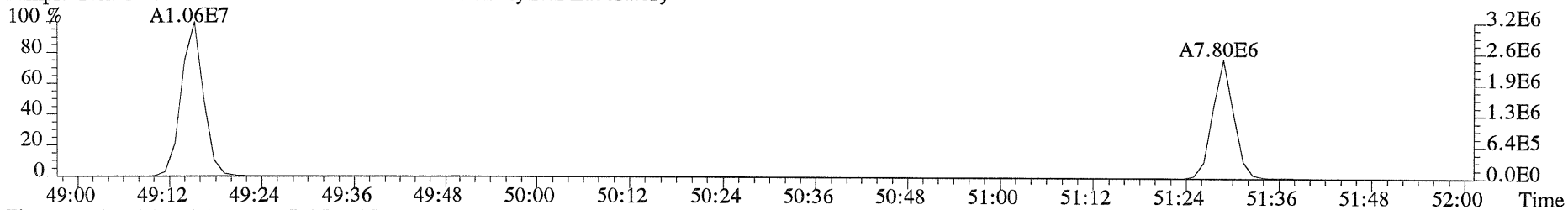
File:31JAN17Z #1-307 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:11 F:6 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



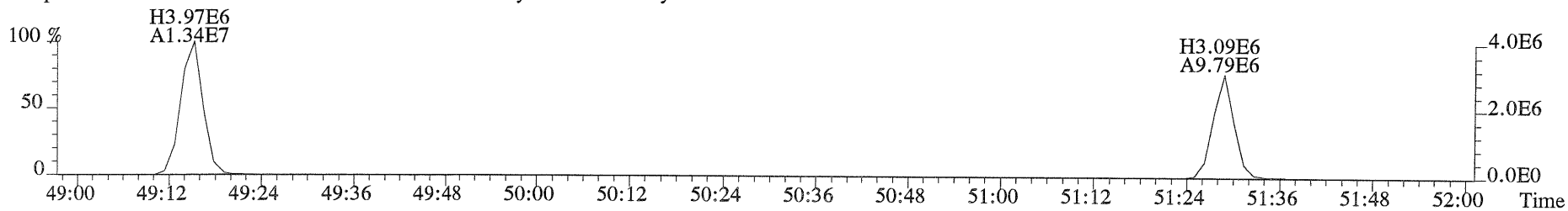
File:31JAN17Z #1-307 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:11 F:6 BSUB(10000,15,-3.0) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



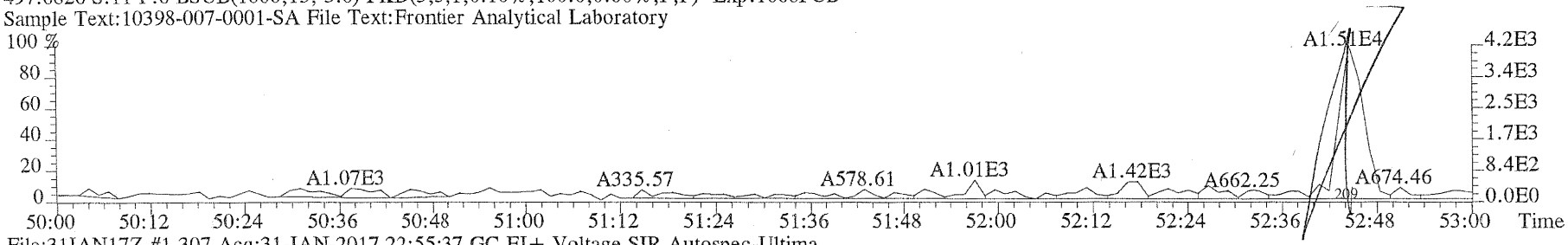
File:31JAN17Z #1-307 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



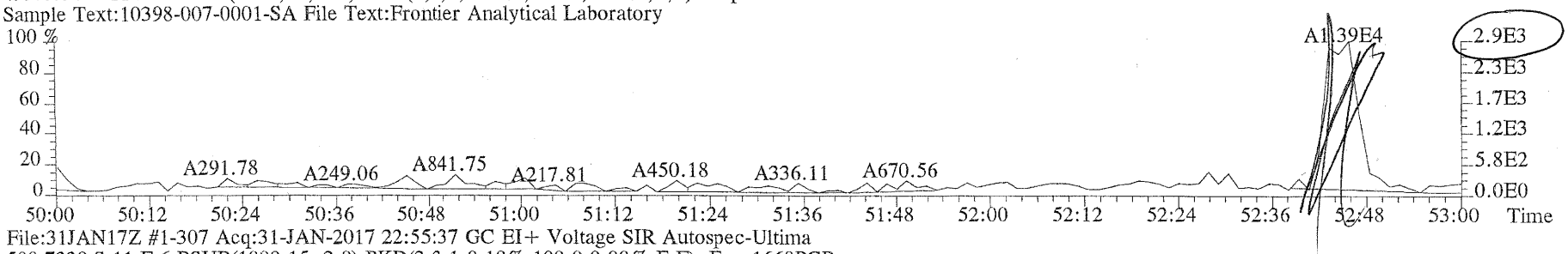
File:31JAN17Z #1-307 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:11 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



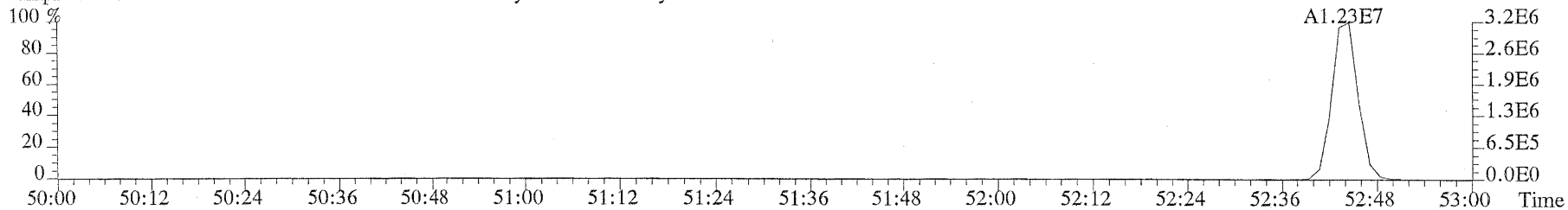
File:31JAN17Z #1-307 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



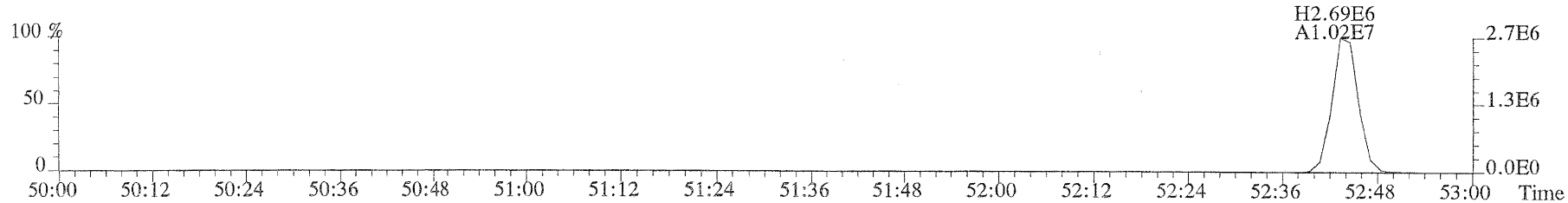
File:31JAN17Z #1-307 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 22:55:37 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10398-007-0001-SA File Text:Frontier Analytical Laboratory



Frontier Analytical Laboratory

Data Filename: 11AUG16Z

Analyte: 1668FAL4-8-11-16 Cal: 1668FAL4-8-11-16

Name	RRF	S. D.	%RSD	S2 RRF#1	S3 RRF#2	S4 RRF#3	S1 RRF#4	S5 RRF#5	S6 RRF#6
PCB-1	1.05	0.0632	6.02 %	1.15	1.09	1.02	1.02	1.04	0.98
13C-PCB-1	1.14	0.0410	3.61 %	1.12	1.11	1.14	1.12	1.12	1.22
PCB-3	1.05	0.0605	5.78 %	1.15	1.09	1.02	1.00	1.01	1.01
13C-PCB-3	1.11	0.0465	4.20 %	1.04	1.08	1.10	1.12	1.11	1.19
PCB-4	1.14	0.0394	3.47 %	1.20	1.14	1.13	1.07	1.14	1.14
13C-PCB-4	0.68	0.0184	2.72 %	0.67	0.68	0.66	0.66	0.68	0.71
PCB-15	1.09	0.0250	2.30 %	1.08	1.10	1.07	1.06	1.11	1.12
13C-PCB-15	1.02	0.0428	4.18 %	0.96	1.03	1.03	1.01	1.03	1.09
PCB-19	1.16	0.0996	8.57 %	1.36	1.17	1.12	1.11	1.10	1.10
13C-PCB-19	0.61	0.0258	4.20 %	0.61	0.60	0.59	0.61	0.63	0.66
13C-PCB-9	-	-	- %	-	-	-	-	-	-
PCB-37	1.14	0.0359	3.14 %	1.11	1.16	1.15	1.09	1.14	1.19
13C-PCB-37	1.38	0.0521	3.79 %	1.32	1.33	1.39	1.34	1.40	1.46
PCB-54	1.05	0.00869	0.827 %	1.04	1.06	1.05	1.05	1.05	1.05
13C-PCB-54	1.25	0.0234	1.87 %	1.24	1.25	1.25	1.23	1.25	1.30
PCB-104	1.14	0.0827	7.24 %	1.29	1.19	1.09	1.09	1.10	1.10
13C-PCB-104	0.91	0.0275	3.02 %	0.89	0.88	0.91	0.90	0.92	0.96
13C-PCB-28	1.48	0.0521	3.51 %	1.46	1.47	1.59	1.47	1.46	1.45
13C-PCB-52	-	-	- %	-	-	-	-	-	-
PCB-81	1.14	0.0578	5.05 %	1.24	1.10	1.09	1.12	1.14	1.18
13C-PCB-81	1.27	0.0513	4.04 %	1.21	1.30	1.31	1.22	1.25	1.33
PCB-77	1.10	0.0223	2.03 %	1.11	1.11	1.10	1.06	1.09	1.13
13C-PCB-77	1.27	0.0698	5.49 %	1.25	1.16	1.27	1.27	1.31	1.37
PCB-155	1.11	0.0299	2.70 %	1.13	1.16	1.10	1.08	1.09	1.10
13C-PCB-155	1.09	0.0331	3.04 %	1.08	1.06	1.05	1.09	1.09	1.15
13C-PCB-111	1.25	0.0232	1.85 %	1.29	1.23	1.23	1.26	1.25	1.26
13C-PCB-101	-	-	- %	-	-	-	-	-	-
PCB-123	1.05	0.0594	5.64 %	1.10	0.96	1.02	1.03	1.11	1.10
13C-PCB-123	1.20	0.0903	7.51 %	1.16	1.14	1.13	1.17	1.26	1.36
PCB-118	1.07	0.0668	6.26 %	1.15	1.01	0.97	1.05	1.10	1.11
13C-PCB-118	1.31	0.0467	3.56 %	1.29	1.26	1.31	1.29	1.33	1.40
PCB-114	1.08	0.0497	4.59 %	1.17	1.06	1.05	1.04	1.09	1.10
13C-PCB-114	1.23	0.0671	5.44 %	1.20	1.16	1.19	1.22	1.30	1.33
PCB-105	1.08	0.0285	2.64 %	1.12	1.10	1.05	1.05	1.07	1.09
13C-PCB-105	1.24	0.0676	5.45 %	1.23	1.17	1.18	1.22	1.29	1.35
PCB-126	1.07	0.0569	5.33 %	1.16	1.03	1.01	1.05	1.05	1.12
13C-PCB-126	1.17	0.0581	4.96 %	1.11	1.15	1.18	1.12	1.19	1.27
PCB-167	0.98	0.0399	4.07 %	1.02	0.92	0.94	0.99	1.00	1.01
13C-PCB-167	1.24	0.0563	4.54 %	1.23	1.19	1.18	1.23	1.29	1.32
PCB-156	1.01	0.0204	2.02 %	1.04	0.99	0.99	1.00	1.02	1.03
13C-PCB-156	1.18	0.0698	5.92 %	1.17	1.11	1.10	1.17	1.24	1.28
PCB-157	0.96	0.0298	3.09 %	0.97	0.92	0.93	0.98	0.98	0.98
13C-PCB-157	1.22	0.0554	4.52 %	1.22	1.17	1.18	1.19	1.27	1.31
PCB-169	1.00	0.0446	4.47 %	1.09	0.98	0.96	0.98	0.99	0.99
13C-PCB-169	1.11	0.0792	7.15 %	1.12	1.01	1.04	1.10	1.17	1.22
PCB-188	1.09	0.0340	3.11 %	1.14	1.13	1.08	1.06	1.07	1.07
13C-PCB-188	1.22	0.105	8.61 %	1.25	1.09	1.11	1.24	1.30	1.36
PCB-189	1.14	0.0734	6.44 %	1.29	1.13	1.10	1.12	1.11	1.09
13C-PCB-189	0.97	0.0705	7.28 %	0.98	0.89	0.89	0.95	1.04	1.06
PCB-202	1.05	0.0311	2.95 %	1.12	1.06	1.03	1.04	1.05	1.04
13C-PCB-202	0.88	0.0771	8.80 %	0.87	0.78	0.81	0.87	0.95	0.98
13C-PCB-178	0.77	0.0487	6.32 %	0.79	0.71	0.71	0.78	0.82	0.81
13C-PCB-138	-	-	- %	-	-	-	-	-	-

PCB-205	1.02	0.0843	8.29	%	1.09	0.92	0.91	1.01	1.09	1.07
13C-PCB-205	1.38	0.0559	4.05	%	1.32	1.43	1.44	1.32	1.35	1.42
PCB-208	0.93	0.0183	1.97	%	0.96	0.94	0.93	0.90	0.93	0.93
13C-PCB-208	1.31	0.113	8.63	%	1.29	1.16	1.26	1.31	1.35	1.51
PCB-206	0.94	0.0197	2.11	%	0.97	0.93	0.91	0.93	0.94	0.94
13C-PCB-206	1.01	0.0466	4.60	%	1.01	0.97	0.96	1.03	1.01	1.09
PCB-209	1.10	0.109	9.87	%	1.25	0.98	0.97	1.14	1.14	1.14
13C-PCB-209	1.34	0.0712	5.32	%	1.28	1.44	1.41	1.30	1.26	1.33
13C-PCB-194	-	-	-	%	-	-	-	-	-	-

Analyst: _____ Date: 8/12/16

Run #1 Filename 11AUG16Z S: 2 Acquired: 11-AUG-16 12:25:59 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z0 Analyte: FAL ID: 1668 CS0 R151116A CS0001

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	0.20	2.49e+05	3.29 y	14:28	-	1.15	y
2	IS/RT	13C-PCB-1	100.00	1.08e+08	3.11 y	14:27	-	1.12	y
3	Unk	PCB-3	0.20	2.32e+05	3.25 y	16:54	-	1.15	y
4	IS/RT	13C-PCB-3	100.00	1.01e+08	3.12 y	16:53	-	1.04	y
5	Unk	PCB-4	0.20	1.55e+05	1.34 y	18:07	-	1.20	y
6	IS/RT	13C-PCB-4	100.00	6.45e+07	1.58 y	18:06	-	0.668	y
7	Unk	PCB-15	0.20	2.00e+05	1.52 y	23:40	-	1.08	y
8	IS/RT	13C-PCB-15	100.00	9.25e+07	1.59 y	23:39	-	0.957	y
9	Unk	PCB-19	0.20	1.60e+05	1.18 y	22:00	-	1.36	y
10	IS/RT	13C-PCB-19	100.00	5.88e+07	1.10 y	21:58	-	0.609	y
11	RS	13C-PCB-9	100.00	9.67e+07	1.59 y	19:46	9.67e+05	-	n
12	Unk	PCB-37	0.20	1.75e+05	1.07 y	30:19	-	1.11	y
13	IS	13C-PCB-37	100.00	7.84e+07	1.08 y	30:18	-	1.32	y
14	Unk	PCB-54	0.20	1.52e+05	0.77 y	25:31	-	1.04	y
15	IS/RT	13C-PCB-54	100.00	7.32e+07	0.80 y	25:29	-	1.24	y
16	Unk	PCB-104	0.20	1.37e+05	1.44 y	29:57	-	1.29	y
17	IS	13C-PCB-104	100.00	5.29e+07	1.59 y	29:56	-	0.894	y
18	C/Up	13C-PCB-28	100.00	8.66e+07	1.06 y	26:35	-	1.46	y
19	RS	13C-PCB-52	100.00	5.92e+07	0.78 y	28:50	5.92e+05	-	n
20	Unk	PCB-81	0.20	1.54e+05	0.81 y	36:04	-	1.24	y
21	IS	13C-PCB-81	100.00	6.20e+07	0.80 y	36:03	-	1.21	y
22	Unk	PCB-77	0.20	1.43e+05	0.75 y	36:38	-	1.11	y
23	IS/RT	13C-PCB-77	100.00	6.40e+07	0.80 y	36:37	-	1.25	y
24	Unk	PCB-155	0.20	1.26e+05	1.32 y	34:06	-	1.13	y
25	IS	13C-PCB-155	100.00	5.57e+07	1.27 y	34:05	-	1.08	y
26	C/Up	13C-PCB-111	100.00	6.63e+07	1.58 y	36:10	-	1.29	y
27	RS	13C-PCB-101	100.00	5.14e+07	1.61 y	34:32	5.14e+05	-	n
28	Unk	PCB-123	0.20	1.22e+05	1.57 y	38:14	-	1.10	y
29	IS	13C-PCB-123	100.00	5.53e+07	1.57 y	38:13	-	1.16	y
30	Unk	PCB-118	0.20	1.41e+05	1.39 y	38:24	-	1.15	y
31	IS	13C-PCB-118	100.00	6.13e+07	1.57 y	38:24	-	1.29	y
32	Unk	PCB-114	0.20	1.34e+05	1.32 y	39:02	-	1.17	y
33	IS	13C-PCB-114	100.00	5.73e+07	1.57 y	39:00	-	1.20	y
34	Unk	PCB-105	0.20	1.31e+05	1.42 y	39:51	-	1.12	y
35	IS	13C-PCB-105	100.00	5.86e+07	1.59 y	39:50	-	1.23	y
36	Unk	PCB-126	0.20	1.23e+05	1.40 y	42:00	-	1.16	y
37	IS	13C-PCB-126	100.00	5.31e+07	1.57 y	41:58	-	1.11	y
38	Unk	PCB-167	0.20	1.20e+05	1.37 y	43:19	-	1.02	y
39	IS	13C-PCB-167	100.00	5.87e+07	1.25 y	43:17	-	1.23	y
40	Unk	PCB-156	0.20	1.16e+05	1.32 y	44:33	-	1.04	y
41	IS	13C-PCB-156	100.00	5.59e+07	1.25 y	44:31	-	1.17	y
42	Unk	PCB-157	0.20	1.13e+05	1.37 y	44:48	-	0.973	y
43	IS	13C-PCB-157	100.00	5.81e+07	1.27 y	44:48	-	1.22	y
44	Unk	PCB-169	0.20	1.16e+05	1.19 y	46:41	-	1.09	y
45	IS	13C-PCB-169	100.00	5.32e+07	1.27 y	46:41	-	1.12	y
46	Unk	PCB-188	0.20	1.36e+05	1.01 y	39:35	-	1.14	y
47	IS	13C-PCB-188	100.00	5.94e+07	1.06 y	39:35	-	1.25	y
48	Unk	PCB-189	0.20	1.20e+05	1.04 y	48:20	-	1.29	y
49	IS	13C-PCB-189	100.00	4.67e+07	1.04 y	48:20	-	0.981	y
50	Unk	PCB-202	0.20	9.21e+04	0.78 y	44:43	-	1.12	y
51	IS	13C-PCB-202	100.00	4.13e+07	0.91 y	44:41	-	0.867	y
52	C/Up	13C-PCB-178	100.00	3.74e+07	1.05 y	42:13	-	0.785	y
53	RS	13C-PCB-138	100.00	4.76e+07	1.26 y	41:27	4.76e+05	-	n

54	Unk	PCB-205	0.20	1.02e+05	0.82 y	50:01	-	1.09	y	
55	IS	13C-PCB-205	100.00	4.66e+07	0.91 y	49:59	-	1.32	y	
56	Unk	PCB-208	0.20	8.70e+04	1.50 y	49:04	-	0.960	y	
57	IS	13C-PCB-208	100.00	4.53e+07	0.79 y	49:03	-	1.29	y	
58	Unk	PCB-206	0.20	6.89e+04	1.34 y	51:11	-	0.972	y	
59	IS	13C-PCB-206	100.00	3.55e+07	0.77 y	51:10	-	1.01	y	
60	Unk	PCB-209	0.20	1.13e+05	1.19 y	52:22	-	1.25	y	
61	IS	13C-PCB-209	100.00	4.52e+07	1.20 y	52:21	-	1.28	y	
62	RS	13C-PCB-194	100.00	3.53e+07	0.91 y	49:44	3.53e+05	-	n	

Analyst: [illegible] Date: 8/12/16

Run #2 Filename 11AUG16Z S: 3 Acquired: 11-AUG-16 13:25:54 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z1 Analyte: FAL ID: 1668 CS1 R121023B CS0101

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	1.00	1.93e+06	3.03 y	14:26	-	1.09	y
2	IS/RT	13C-PCB-1	100.00	1.77e+08	3.11 y	14:25	-	1.11	y
3	Unk	PCB-3	1.00	1.88e+06	3.01 y	16:53	-	1.09	y
4	IS/RT	13C-PCB-3	100.00	1.72e+08	3.06 y	16:51	-	1.08	y
5	Unk	PCB-4	1.00	1.22e+06	1.43 y	18:06	-	1.14	y
6	IS/RT	13C-PCB-4	100.00	1.07e+08	1.58 y	18:05	-	0.676	y
7	Unk	PCB-15	1.00	1.78e+06	1.57 y	23:38	-	1.10	y
8	IS/RT	13C-PCB-15	100.00	1.63e+08	1.59 y	23:38	-	1.03	y
9	Unk	PCB-19	1.00	1.11e+06	1.08 y	21:59	-	1.17	y
10	IS/RT	13C-PCB-19	100.00	9.46e+07	1.12 y	21:57	-	0.597	y
11	RS	13C-PCB-9	100.00	1.59e+08	1.59 y	19:45	1.59e+06	-	n
12	Unk	PCB-37	1.00	1.49e+06	1.06 y	30:18	-	1.16	y
13	IS	13C-PCB-37	100.00	1.28e+08	1.06 y	30:16	-	1.33	y
14	Unk	PCB-54	1.00	1.27e+06	0.77 y	25:31	-	1.06	y
15	IS/RT	13C-PCB-54	100.00	1.20e+08	0.79 y	25:29	-	1.25	y
16	Unk	PCB-104	1.00	1.00e+06	1.53 y	29:56	-	1.19	y
17	IS	13C-PCB-104	100.00	8.45e+07	1.60 y	29:55	-	0.882	y
18	C/Up	13C-PCB-28	100.00	1.41e+08	1.07 y	26:34	-	1.47	y
19	RS	13C-PCB-52	100.00	9.58e+07	0.79 y	28:49	9.58e+05	-	n
20	Unk	PCB-81	1.00	1.19e+06	0.79 y	36:03	-	1.10	y
21	IS	13C-PCB-81	100.00	1.09e+08	0.78 y	36:01	-	1.30	y
22	Unk	PCB-77	1.00	1.09e+06	0.86 y	36:37	-	1.11	y
23	IS/RT	13C-PCB-77	100.00	9.75e+07	0.79 y	36:35	-	1.16	y
24	Unk	PCB-155	1.00	1.03e+06	1.28 y	34:05	-	1.16	y
25	IS	13C-PCB-155	100.00	8.88e+07	1.27 y	34:04	-	1.06	y
26	C/Up	13C-PCB-111	100.00	1.03e+08	1.59 y	36:09	-	1.23	y
27	RS	13C-PCB-101	100.00	8.39e+07	1.62 y	34:30	8.39e+05	-	n
28	Unk	PCB-123	1.00	9.33e+05	1.44 y	38:13	-	0.959	y
29	IS	13C-PCB-123	100.00	9.74e+07	1.57 y	38:13	-	1.14	y
30	Unk	PCB-118	1.00	1.09e+06	1.50 y	38:24	-	1.01	y
31	IS	13C-PCB-118	100.00	1.08e+08	1.58 y	38:22	-	1.26	y
32	Unk	PCB-114	1.00	1.04e+06	1.51 y	39:00	-	1.06	y
33	IS	13C-PCB-114	100.00	9.89e+07	1.58 y	39:00	-	1.16	y
34	Unk	PCB-105	1.00	1.10e+06	1.51 y	39:50	-	1.10	y
35	IS	13C-PCB-105	100.00	1.00e+08	1.60 y	39:48	-	1.17	y
36	Unk	PCB-126	1.00	1.01e+06	1.46 y	41:58	-	1.03	y
37	IS	13C-PCB-126	100.00	9.86e+07	1.60 y	41:56	-	1.15	y
38	Unk	PCB-167	1.00	9.34e+05	1.22 y	43:19	-	0.921	y
39	IS	13C-PCB-167	100.00	1.01e+08	1.24 y	43:17	-	1.19	y
40	Unk	PCB-156	1.00	9.37e+05	1.25 y	44:33	-	0.987	y
41	IS	13C-PCB-156	100.00	9.49e+07	1.25 y	44:31	-	1.11	y
42	Unk	PCB-157	1.00	9.20e+05	1.22 y	44:48	-	0.918	y
43	IS	13C-PCB-157	100.00	1.00e+08	1.25 y	44:46	-	1.17	y
44	Unk	PCB-169	1.00	8.46e+05	1.28 y	46:41	-	0.983	y
45	IS	13C-PCB-169	100.00	8.61e+07	1.26 y	46:40	-	1.01	y
46	Unk	PCB-188	1.00	1.05e+06	1.06 y	39:35	-	1.13	y
47	IS	13C-PCB-188	100.00	9.27e+07	1.05 y	39:33	-	1.09	y
48	Unk	PCB-189	1.00	8.61e+05	1.04 y	48:20	-	1.13	y
49	IS	13C-PCB-189	100.00	7.62e+07	1.05 y	48:20	-	0.892	y
50	Unk	PCB-202	1.00	7.07e+05	0.90 y	44:41	-	1.06	y
51	IS	13C-PCB-202	100.00	6.69e+07	0.91 y	44:39	-	0.784	y
52	C/Up	13C-PCB-178	100.00	6.07e+07	1.04 y	42:11	-	0.711	y
53	RS	13C-PCB-138	100.00	8.54e+07	1.26 y	41:25	8.54e+05	-	n

54	Unk	PCB-205	1.00	7.88e+05	0.88 y	49:59	-	0.924	y	
55	IS	13C-PCB-205	100.00	8.53e+07	0.91 y	49:59	-	1.43	y	
56	Unk	PCB-208	1.00	6.53e+05	1.41 y	49:04	-	0.939	y	
57	IS	13C-PCB-208	100.00	6.95e+07	0.79 y	49:03	-	1.16	y	
58	Unk	PCB-206	1.00	5.38e+05	1.32 y	51:11	-	0.926	y	
59	IS	13C-PCB-206	100.00	5.81e+07	0.78 y	51:10	-	0.973	y	
60	Unk	PCB-209	1.00	8.45e+05	1.16 y	52:21	-	0.982	y	
61	IS	13C-PCB-209	100.00	8.61e+07	1.21 y	52:21	-	1.44	y	
62	RS	13C-PCB-194	100.00	5.98e+07	0.92 y	49:44	5.98e+05	-	n	

Analyst: [illegible] Date: 8/12/16

Run #3 Filename 11AUG16Z S: 4 Acquired: 11-AUG-16 14:25:51 Cal: 1668FAL4-8-11-16
Client ID: ST08111 6Z2 Analyte: FAL ID: 1668 CS2 R130426B CS0201

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	5.00	1.17e+07	3.09 y	14:27	-	1.02	y
2	IS/RT	13C-PCB-1	100.00	2.30e+08	3.11 y	14:26	-	1.14	y
3	Unk	PCB-3	5.00	1.14e+07	3.11 y	16:52	-	1.02	y
4	IS/RT	13C-PCB-3	100.00	2.23e+08	3.06 y	16:52	-	1.10	y
5	Unk	PCB-4	5.00	7.52e+06	1.51 y	18:06	-	1.13	y
6	IS/RT	13C-PCB-4	100.00	1.33e+08	1.59 y	18:04	-	0.661	y
7	Unk	PCB-15	5.00	1.11e+07	1.61 y	23:39	-	1.07	y
8	IS/RT	13C-PCB-15	100.00	2.08e+08	1.60 y	23:38	-	1.03	y
9	Unk	PCB-19	5.00	6.64e+06	1.04 y	21:59	-	1.12	y
10	IS/RT	13C-PCB-19	100.00	1.18e+08	1.10 y	21:57	-	0.586	y
11	RS	13C-PCB-9	100.00	2.02e+08	1.57 y	19:46	2.02e+06	-	n
12	Unk	PCB-37	5.00	9.61e+06	1.07 y	30:17	-	1.15	y
13	IS	13C-PCB-37	100.00	1.67e+08	1.10 y	30:15	-	1.39	y
14	Unk	PCB-54	5.00	7.91e+06	0.78 y	25:31	-	1.05	y
15	IS/RT	13C-PCB-54	100.00	1.50e+08	0.79 y	25:28	-	1.25	y
16	Unk	PCB-104	5.00	5.89e+06	1.58 y	29:56	-	1.09	y
17	IS	13C-PCB-104	100.00	1.09e+08	1.59 y	29:54	-	0.906	y
18	C/Up	13C-PCB-28	100.00	1.90e+08	1.17 y	26:34	-	1.59	y
19	RS	13C-PCB-52	100.00	1.20e+08	0.78 y	28:49	1.20e+06	-	n
20	Unk	PCB-81	5.00	7.65e+06	0.77 y	36:03	-	1.09	y
21	IS	13C-PCB-81	100.00	1.40e+08	0.79 y	36:01	-	1.31	y
22	Unk	PCB-77	5.00	7.47e+06	0.79 y	36:37	-	1.10	y
23	IS/RT	13C-PCB-77	100.00	1.35e+08	0.79 y	36:36	-	1.27	y
24	Unk	PCB-155	5.00	6.21e+06	1.27 y	34:05	-	1.10	y
25	IS	13C-PCB-155	100.00	1.13e+08	1.26 y	34:04	-	1.05	y
26	C/Up	13C-PCB-111	100.00	1.32e+08	1.59 y	36:09	-	1.23	y
27	RS	13C-PCB-101	100.00	1.07e+08	1.59 y	34:30	1.07e+06	-	n
28	Unk	PCB-123	5.00	6.20e+06	1.52 y	38:13	-	1.02	y
29	IS	13C-PCB-123	100.00	1.22e+08	1.57 y	38:12	-	1.13	y
30	Unk	PCB-118	5.00	6.85e+06	1.52 y	38:23	-	0.971	y
31	IS	13C-PCB-118	100.00	1.41e+08	1.61 y	38:23	-	1.31	y
32	Unk	PCB-114	5.00	6.76e+06	1.54 y	39:01	-	1.05	y
33	IS	13C-PCB-114	100.00	1.29e+08	1.58 y	38:59	-	1.19	y
34	Unk	PCB-105	5.00	6.69e+06	1.53 y	39:50	-	1.05	y
35	IS	13C-PCB-105	100.00	1.28e+08	1.60 y	39:49	-	1.18	y
36	Unk	PCB-126	5.00	6.45e+06	1.56 y	41:57	-	1.01	y
37	IS	13C-PCB-126	100.00	1.27e+08	1.60 y	41:57	-	1.18	y
38	Unk	PCB-167	5.00	5.99e+06	1.22 y	43:18	-	0.940	y
39	IS	13C-PCB-167	100.00	1.27e+08	1.25 y	43:18	-	1.18	y
40	Unk	PCB-156	5.00	5.91e+06	1.28 y	44:32	-	0.992	y
41	IS	13C-PCB-156	100.00	1.19e+08	1.24 y	44:30	-	1.10	y
42	Unk	PCB-157	5.00	5.93e+06	1.24 y	44:47	-	0.932	y
43	IS	13C-PCB-157	100.00	1.27e+08	1.24 y	44:47	-	1.18	y
44	Unk	PCB-169	5.00	5.37e+06	1.24 y	46:40	-	0.960	y
45	IS	13C-PCB-169	100.00	1.12e+08	1.25 y	46:40	-	1.04	y
46	Unk	PCB-188	5.00	6.50e+06	1.07 y	39:34	-	1.08	y
47	IS	13C-PCB-188	100.00	1.20e+08	1.06 y	39:34	-	1.11	y
48	Unk	PCB-189	5.00	5.29e+06	1.06 y	48:21	-	1.10	y
49	IS	13C-PCB-189	100.00	9.65e+07	1.06 y	48:19	-	0.893	y
50	Unk	PCB-202	5.00	4.47e+06	0.88 y	44:42	-	1.03	y
51	IS	13C-PCB-202	100.00	8.70e+07	0.91 y	44:40	-	0.805	y
52	C/Up	13C-PCB-178	100.00	7.68e+07	1.05 y	42:12	-	0.711	y
53	RS	13C-PCB-138	100.00	1.08e+08	1.25 y	41:26	1.08e+06	-	n

54	Unk	PCB-205	5.00	4.98e+06	0.87 y	49:59	-	0.908	y	
55	IS	13C-PCB-205	100.00	1.10e+08	0.90 y	49:58	-	1.44	y	
56	Unk	PCB-208	5.00	4.43e+06	1.43 y	49:03	-	0.926	y	
57	IS	13C-PCB-208	100.00	9.57e+07	0.79 y	49:03	-	1.26	y	
58	Unk	PCB-206	5.00	3.34e+06	1.37 y	51:10	-	0.913	y	
59	IS	13C-PCB-206	100.00	7.31e+07	0.78 y	51:10	-	0.962	y	
60	Unk	PCB-209	5.00	5.15e+06	1.19 y	52:21	-	0.965	y	
61	IS	13C-PCB-209	100.00	1.07e+08	1.19 y	52:19	-	1.41	y	
62	RS	13C-PCB-194	100.00	7.60e+07	0.92 y	49:44	7.60e+05	-	n	

Analyst: [illegible] Date: 8/12/16

Run #4 Filename 11AUG16Z S: 1 Acquired: 11-AUG-16 11:26:03 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z3 Analyte: FAL ID: 1668 CS3 R150603A CS0301

	Typ	Name	Amount	Resp	RA		RT	RF	RRF	
1	Unk	PCB-1	50.00	6.56e+07	3.10	y	14:26	-	1.02	y
2	IS/RT	13C-PCB-1	100.00	1.29e+08	3.05	y	14:25	-	1.12	y
3	Unk	PCB-3	50.00	6.47e+07	3.15	y	16:52	-	1.00	y
4	IS/RT	13C-PCB-3	100.00	1.29e+08	3.19	y	16:51	-	1.12	y
5	Unk	PCB-4	50.00	4.08e+07	1.52	y	18:05	-	1.07	y
6	IS/RT	13C-PCB-4	100.00	7.61e+07	1.56	y	18:04	-	0.657	y
7	Unk	PCB-15	50.00	6.23e+07	1.56	y	23:39	-	1.06	y
8	IS/RT	13C-PCB-15	100.00	1.17e+08	1.57	y	23:38	-	1.01	y
9	Unk	PCB-19	50.00	3.92e+07	1.04	y	21:59	-	1.11	y
10	IS/RT	13C-PCB-19	100.00	7.06e+07	1.09	y	21:57	-	0.610	y
11	RS	13C-PCB-9	100.00	1.16e+08	1.59	y	19:45	1.16e+06	-	n
12	Unk	PCB-37	50.00	5.25e+07	1.04	y	30:18	-	1.09	y
13	IS	13C-PCB-37	100.00	9.62e+07	1.14	y	30:16	-	1.34	y
14	Unk	PCB-54	50.00	4.61e+07	0.78	y	25:31	-	1.05	y
15	IS/RT	13C-PCB-54	100.00	8.82e+07	0.79	y	25:29	-	1.23	y
16	Unk	PCB-104	50.00	3.51e+07	1.56	y	29:56	-	1.09	y
17	IS	13C-PCB-104	100.00	6.45e+07	1.60	y	29:55	-	0.898	y
18	C/Up	13C-PCB-28	100.00	1.06e+08	1.10	y	26:34	-	1.47	y
19	RS	13C-PCB-52	100.00	7.18e+07	0.78	y	28:51	7.18e+05	-	n
20	Unk	PCB-81	50.00	4.21e+07	0.78	y	36:04	-	1.12	y
21	IS	13C-PCB-81	100.00	7.50e+07	0.79	y	36:03	-	1.22	y
22	Unk	PCB-77	50.00	4.15e+07	0.78	y	36:37	-	1.06	y
23	IS/RT	13C-PCB-77	100.00	7.80e+07	0.80	y	36:37	-	1.27	y
24	Unk	PCB-155	50.00	3.60e+07	1.27	y	34:06	-	1.08	y
25	IS	13C-PCB-155	100.00	6.68e+07	1.26	y	34:05	-	1.09	y
26	C/Up	13C-PCB-111	100.00	7.73e+07	1.58	y	36:10	-	1.26	y
27	RS	13C-PCB-101	100.00	6.14e+07	1.60	y	34:32	6.14e+05	-	n
28	Unk	PCB-123	50.00	3.39e+07	1.51	y	38:15	-	1.03	y
29	IS	13C-PCB-123	100.00	6.56e+07	1.57	y	38:13	-	1.17	y
30	Unk	PCB-118	50.00	3.82e+07	1.52	y	38:25	-	1.05	y
31	IS	13C-PCB-118	100.00	7.25e+07	1.58	y	38:23	-	1.29	y
32	Unk	PCB-114	50.00	3.56e+07	1.53	y	39:01	-	1.04	y
33	IS	13C-PCB-114	100.00	6.87e+07	1.58	y	39:01	-	1.22	y
34	Unk	PCB-105	50.00	3.61e+07	1.54	y	39:50	-	1.05	y
35	IS	13C-PCB-105	100.00	6.87e+07	1.60	y	39:49	-	1.22	y
36	Unk	PCB-126	50.00	3.31e+07	1.58	y	41:59	-	1.05	y
37	IS	13C-PCB-126	100.00	6.32e+07	1.57	y	41:59	-	1.12	y
38	Unk	PCB-167	50.00	3.42e+07	1.23	y	43:19	-	0.992	y
39	IS	13C-PCB-167	100.00	6.90e+07	1.25	y	43:18	-	1.23	y
40	Unk	PCB-156	50.00	3.30e+07	1.22	y	44:33	-	1.00	y
41	IS	13C-PCB-156	100.00	6.60e+07	1.27	y	44:32	-	1.17	y
42	Unk	PCB-157	50.00	3.30e+07	1.25	y	44:48	-	0.983	y
43	IS	13C-PCB-157	100.00	6.71e+07	1.25	y	44:46	-	1.19	y
44	Unk	PCB-169	50.00	3.04e+07	1.28	y	46:42	-	0.984	y
45	IS	13C-PCB-169	100.00	6.18e+07	1.24	y	46:42	-	1.10	y
46	Unk	PCB-188	50.00	3.71e+07	1.05	y	39:35	-	1.06	y
47	IS	13C-PCB-188	100.00	6.98e+07	1.06	y	39:34	-	1.24	y
48	Unk	PCB-189	50.00	3.02e+07	1.06	y	48:22	-	1.12	y
49	IS	13C-PCB-189	100.00	5.37e+07	1.04	y	48:20	-	0.954	y
50	Unk	PCB-202	50.00	2.56e+07	0.88	y	44:43	-	1.04	y
51	IS	13C-PCB-202	100.00	4.92e+07	0.91	y	44:42	-	0.875	y
52	C/Up	13C-PCB-178	100.00	4.39e+07	1.05	y	42:13	-	0.781	y
53	RS	13C-PCB-138	100.00	5.63e+07	1.25	y	41:26	5.63e+05	-	n

54	Unk	PCB-205	50.00	2.70e+07	0.88 y	50:01	-	1.01	y	
55	IS	13C-PCB-205	100.00	5.33e+07	0.90 y	49:59	-	1.32	y	
56	Unk	PCB-208	50.00	2.39e+07	1.45 y	49:04	-	0.904	y	
57	IS	13C-PCB-208	100.00	5.30e+07	0.79 y	49:03	-	1.31	y	
58	Unk	PCB-206	50.00	1.94e+07	1.40 y	51:11	-	0.934	y	
59	IS	13C-PCB-206	100.00	4.16e+07	0.79 y	51:10	-	1.03	y	
60	Unk	PCB-209	50.00	2.98e+07	1.18 y	52:22	-	1.14	y	
61	IS	13C-PCB-209	100.00	5.25e+07	1.20 y	52:21	-	1.30	y	
62	RS	13C-PCB-194	100.00	4.03e+07	0.90 y	49:44	4.03e+05	-	n	

Analyst: [illegible] Date: 5/12/16

Run #5 Filename 11AUG16Z S: 5 Acquired: 11-AUG-16 15:25:47 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z4 Analyte: FAL ID: 1668 CS4 R151116B CS0401

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	400.00	6.07e+08	3.22 y	14:26	-	1.04	y
2	IS/RT	13C-PCB-1	100.00	1.47e+08	3.05 y	14:25	-	1.12	y
3	Unk	PCB-3	400.00	5.90e+08	3.10 y	16:52	-	1.01	y
4	IS/RT	13C-PCB-3	100.00	1.46e+08	3.20 y	16:51	-	1.11	y
5	Unk	PCB-4	400.00	4.09e+08	1.57 y	18:06	-	1.14	y
6	IS/RT	13C-PCB-4	100.00	9.00e+07	1.57 y	18:04	-	0.685	y
7	Unk	PCB-15	400.00	6.01e+08	1.57 y	23:38	-	1.11	y
8	IS/RT	13C-PCB-15	100.00	1.35e+08	1.58 y	23:37	-	1.03	y
9	Unk	PCB-19	400.00	3.63e+08	1.04 y	21:59	-	1.10	y
10	IS/RT	13C-PCB-19	100.00	8.25e+07	1.10 y	21:57	-	0.628	y
11	RS	13C-PCB-9	100.00	1.31e+08	1.60 y	19:46	1.31e+06	-	n
12	Unk	PCB-37	400.00	5.21e+08	1.01 y	30:17	-	1.14	y
13	IS	13C-PCB-37	100.00	1.14e+08	1.09 y	30:15	-	1.40	y
14	Unk	PCB-54	400.00	4.28e+08	0.78 y	25:31	-	1.05	y
15	IS/RT	13C-PCB-54	100.00	1.02e+08	0.79 y	25:30	-	1.25	y
16	Unk	PCB-104	400.00	3.30e+08	1.58 y	29:56	-	1.10	y
17	IS	13C-PCB-104	100.00	7.48e+07	1.60 y	29:55	-	0.919	y
18	C/Up	13C-PCB-28	100.00	1.19e+08	1.07 y	26:35	-	1.46	y
19	RS	13C-PCB-52	100.00	8.14e+07	0.79 y	28:49	8.14e+05	-	n
20	Unk	PCB-81	400.00	4.07e+08	0.77 y	36:01	-	1.14	y
21	IS	13C-PCB-81	100.00	8.97e+07	0.80 y	36:01	-	1.25	y
22	Unk	PCB-77	400.00	4.08e+08	0.78 y	36:36	-	1.09	y
23	IS/RT	13C-PCB-77	100.00	9.38e+07	0.80 y	36:34	-	1.31	y
24	Unk	PCB-155	400.00	3.41e+08	1.27 y	34:05	-	1.09	y
25	IS	13C-PCB-155	100.00	7.84e+07	1.27 y	34:04	-	1.09	y
26	C/Up	13C-PCB-111	100.00	8.99e+07	1.60 y	36:09	-	1.25	y
27	RS	13C-PCB-101	100.00	7.17e+07	1.62 y	34:30	7.17e+05	-	n
28	Unk	PCB-123	400.00	3.62e+08	1.54 y	38:13	-	1.11	y
29	IS	13C-PCB-123	100.00	8.19e+07	1.58 y	38:11	-	1.26	y
30	Unk	PCB-118	400.00	3.79e+08	1.54 y	38:23	-	1.10	y
31	IS	13C-PCB-118	100.00	8.62e+07	1.57 y	38:21	-	1.33	y
32	Unk	PCB-114	400.00	3.66e+08	1.54 y	39:01	-	1.09	y
33	IS	13C-PCB-114	100.00	8.39e+07	1.60 y	38:59	-	1.30	y
34	Unk	PCB-105	400.00	3.57e+08	1.54 y	39:49	-	1.07	y
35	IS	13C-PCB-105	100.00	8.36e+07	1.59 y	39:49	-	1.29	y
36	Unk	PCB-126	400.00	3.24e+08	1.53 y	41:57	-	1.05	y
37	IS	13C-PCB-126	100.00	7.74e+07	1.59 y	41:55	-	1.19	y
38	Unk	PCB-167	400.00	3.35e+08	1.24 y	43:18	-	1.00	y
39	IS	13C-PCB-167	100.00	8.36e+07	1.26 y	43:18	-	1.29	y
40	Unk	PCB-156	400.00	3.30e+08	1.24 y	44:32	-	1.02	y
41	IS	13C-PCB-156	100.00	8.06e+07	1.27 y	44:30	-	1.24	y
42	Unk	PCB-157	400.00	3.23e+08	1.26 y	44:47	-	0.983	y
43	IS	13C-PCB-157	100.00	8.20e+07	1.26 y	44:47	-	1.27	y
44	Unk	PCB-169	400.00	2.99e+08	1.25 y	46:40	-	0.989	y
45	IS	13C-PCB-169	100.00	7.56e+07	1.23 y	46:40	-	1.17	y
46	Unk	PCB-188	400.00	3.62e+08	1.05 y	39:35	-	1.07	y
47	IS	13C-PCB-188	100.00	8.43e+07	1.06 y	39:34	-	1.30	y
48	Unk	PCB-189	400.00	2.98e+08	1.06 y	48:21	-	1.11	y
49	IS	13C-PCB-189	100.00	6.71e+07	1.05 y	48:19	-	1.04	y
50	Unk	PCB-202	400.00	2.57e+08	0.89 y	44:42	-	1.05	y
51	IS	13C-PCB-202	100.00	6.14e+07	0.90 y	44:40	-	0.948	y
52	C/Up	13C-PCB-178	100.00	5.33e+07	1.06 y	42:12	-	0.822	y
53	RS	13C-PCB-138	100.00	6.48e+07	1.26 y	41:26	6.48e+05	-	n

54	Unk	PCB-205	400.00	2.92e+08	0.88	y	49:59	-	1.09	y	
55	IS	13C-PCB-205	100.00	6.68e+07	0.91	y	49:58	-	1.35	y	
56	Unk	PCB-208	400.00	2.48e+08	1.42	y	49:03	-	0.928	y	
57	IS	13C-PCB-208	100.00	6.68e+07	0.79	y	49:03	-	1.35	y	
58	Unk	PCB-206	400.00	1.89e+08	1.41	y	51:10	-	0.938	y	
59	IS	13C-PCB-206	100.00	5.04e+07	0.78	y	51:10	-	1.01	y	
60	Unk	PCB-209	400.00	2.86e+08	1.18	y	52:21	-	1.14	y	
61	IS	13C-PCB-209	100.00	6.27e+07	1.19	y	52:19	-	1.26	y	
62	RS	13C-PCB-194	100.00	4.97e+07	0.92	y	49:44	4.97e+05	-	n	

Analyst: [illegible] Date: 8/12/16

Run #6 Filename 11AUG16Z S: 6 Acquired: 11-AUG-16 16:25:44 Cal: 1668FAL4-8-11-16
Client ID: ST081116Z5 Analyte: 1668FAL4-8-11-16 FAL ID: 1668 CS5 R130426C CS0501

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	2000.00	2.77e+09	3.13 y	14:24	-	0.980	y
2	IS/RT	13C-PCB-1	100.00	1.41e+08	3.09 y	14:23	-	1.22	y
3	Unk	PCB-3	2000.00	2.77e+09	3.08 y	16:52	-	1.01	y
4	IS/RT	13C-PCB-3	100.00	1.37e+08	3.12 y	16:51	-	1.19	y
5	Unk	PCB-4	2000.00	1.87e+09	1.57 y	18:06	-	1.14	y
6	IS/RT	13C-PCB-4	100.00	8.19e+07	1.59 y	18:04	-	0.707	y
7	Unk	PCB-15	2000.00	2.84e+09	1.58 y	23:39	-	1.12	y
8	IS/RT	13C-PCB-15	100.00	1.26e+08	1.58 y	23:38	-	1.09	y
9	Unk	PCB-19	2000.00	1.68e+09	1.04 y	21:59	-	1.10	y
10	IS/RT	13C-PCB-19	100.00	7.64e+07	1.09 y	21:58	-	0.659	y
11	RS	13C-PCB-9	100.00	1.16e+08	1.61 y	19:46	1.16e+06	-	n
12	Unk	PCB-37	2000.00	2.50e+09	1.05 y	30:16	-	1.19	y
13	IS	13C-PCB-37	100.00	1.05e+08	1.09 y	30:16	-	1.46	y
14	Unk	PCB-54	2000.00	1.96e+09	0.78 y	25:31	-	1.05	y
15	IS/RT	13C-PCB-54	100.00	9.30e+07	0.79 y	25:29	-	1.30	y
16	Unk	PCB-104	2000.00	1.52e+09	1.56 y	29:57	-	1.10	y
17	IS	13C-PCB-104	100.00	6.89e+07	1.59 y	29:56	-	0.960	y
18	C/Up	13C-PCB-28	100.00	1.04e+08	1.07 y	26:36	-	1.45	y
19	RS	13C-PCB-52	100.00	7.18e+07	0.78 y	28:50	7.18e+05	-	n
20	Unk	PCB-81	2000.00	1.97e+09	0.78 y	36:03	-	1.18	y
21	IS	13C-PCB-81	100.00	8.33e+07	0.80 y	36:01	-	1.33	y
22	Unk	PCB-77	2000.00	1.93e+09	0.77 y	36:37	-	1.13	y
23	IS/RT	13C-PCB-77	100.00	8.57e+07	0.80 y	36:35	-	1.37	y
24	Unk	PCB-155	2000.00	1.57e+09	1.28 y	34:06	-	1.10	y
25	IS	13C-PCB-155	100.00	7.15e+07	1.27 y	34:05	-	1.15	y
26	C/Up	13C-PCB-111	100.00	7.85e+07	1.59 y	36:10	-	1.26	y
27	RS	13C-PCB-101	100.00	6.24e+07	1.60 y	34:32	6.24e+05	-	n
28	Unk	PCB-123	2000.00	1.68e+09	1.54 y	38:14	-	1.10	y
29	IS	13C-PCB-123	100.00	7.67e+07	1.59 y	38:13	-	1.36	y
30	Unk	PCB-118	2000.00	1.75e+09	1.55 y	38:24	-	1.11	y
31	IS	13C-PCB-118	100.00	7.89e+07	1.59 y	38:23	-	1.40	y
32	Unk	PCB-114	2000.00	1.66e+09	1.56 y	39:00	-	1.10	y
33	IS	13C-PCB-114	100.00	7.54e+07	1.59 y	39:00	-	1.33	y
34	Unk	PCB-105	2000.00	1.66e+09	1.54 y	39:50	-	1.09	y
35	IS	13C-PCB-105	100.00	7.61e+07	1.59 y	39:48	-	1.35	y
36	Unk	PCB-126	2000.00	1.61e+09	1.58 y	41:58	-	1.12	y
37	IS	13C-PCB-126	100.00	7.20e+07	1.61 y	41:57	-	1.27	y
38	Unk	PCB-167	2000.00	1.50e+09	1.25 y	43:19	-	1.01	y
39	IS	13C-PCB-167	100.00	7.47e+07	1.25 y	43:17	-	1.32	y
40	Unk	PCB-156	2000.00	1.48e+09	1.24 y	44:33	-	1.03	y
41	IS	13C-PCB-156	100.00	7.22e+07	1.26 y	44:31	-	1.28	y
42	Unk	PCB-157	2000.00	1.46e+09	1.25 y	44:48	-	0.985	y
43	IS	13C-PCB-157	100.00	7.42e+07	1.26 y	44:46	-	1.31	y
44	Unk	PCB-169	2000.00	1.36e+09	1.24 y	46:41	-	0.988	y
45	IS	13C-PCB-169	100.00	6.89e+07	1.26 y	46:40	-	1.22	y
46	Unk	PCB-188	2000.00	1.64e+09	1.05 y	39:35	-	1.07	y
47	IS	13C-PCB-188	100.00	7.66e+07	1.06 y	39:35	-	1.36	y
48	Unk	PCB-189	2000.00	1.31e+09	1.04 y	48:20	-	1.09	y
49	IS	13C-PCB-189	100.00	5.99e+07	1.04 y	48:20	-	1.06	y
50	Unk	PCB-202	2000.00	1.16e+09	0.88 y	44:43	-	1.04	y
51	IS	13C-PCB-202	100.00	5.54e+07	0.90 y	44:41	-	0.981	y
52	C/Up	13C-PCB-178	100.00	4.59e+07	1.06 y	42:13	-	0.813	y
53	RS	13C-PCB-138	100.00	5.65e+07	1.25 y	41:27	5.65e+05	-	n

54	Unk	PCB-205	2000.00	1.25e+09	0.87	y	49:59	-	1.07	y	
55	IS	13C-PCB-205	100.00	5.85e+07	0.92	y	49:59	-	1.42	y	
56	Unk	PCB-208	2000.00	1.16e+09	1.38	y	49:04	-	0.931	y	
57	IS	13C-PCB-208	100.00	6.20e+07	0.78	y	49:03	-	1.51	y	
58	Unk	PCB-206	2000.00	8.49e+08	1.38	y	51:11	-	0.943	y	
59	IS	13C-PCB-206	100.00	4.50e+07	0.78	y	51:10	-	1.09	y	
60	Unk	PCB-209	2000.00	1.25e+09	1.18	y	52:21	-	1.14	y	
61	IS	13C-PCB-209	100.00	5.48e+07	1.20	y	52:21	-	1.33	y	
62	RS	13C-PCB-194	100.00	4.12e+07	0.91	y	49:44	4.12e+05	-	n	

Analyst: _____ Date: 8/10/13

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 11AUG16Z Sam:1 Analysis Date: 11-AUG-16 11:26:03

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.10	2.66-3.60	y	48.3	37.5 - 62.5
PCB-3	M/M+2	3.15	2.66-3.60	y	47.8	37.5 - 62.5
PCB-4	M/M+2	1.52	1.33-1.79	y	47.2	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	48.7	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	47.9	37.5 - 62.5
PCB-37	M/M+2	1.04	0.88-1.20	y	47.8	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	49.8	37.5 - 62.5
PCB-77	M/M+2	0.78	0.65-0.89	y	48.3	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	49.0	37.5 - 62.5
PCB-104	M+2/M+4	1.56	1.32-1.78	y	47.6	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	48.6	37.5 - 62.5
PCB-114	M+2/M+4	1.53	1.32-1.78	y	47.8	37.5 - 62.5
PCB-118	M+2/M+4	1.52	1.32-1.78	y	49.5	37.5 - 62.5
PCB-123	M+2/M+4	1.51	1.32-1.78	y	49.1	37.5 - 62.5
PCB-126	M+2/M+4	1.58	1.32-1.78	y	49.0	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	48.6	37.5 - 62.5
PCB-156	M+2/M+4	1.22	1.05-1.43	y	49.5	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	51.1	37.5 - 62.5
PCB-167	M+2/M+4	1.23	1.05-1.43	y	50.6	37.5 - 62.5
PCB-169	M+2/M+4	1.28	1.05-1.43	y	49.3	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	48.7	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	49.3	37.5 - 62.5
PCB-202	M+2/M+4	0.88	0.76-1.02	y	49.3	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	49.7	37.5 - 62.5
PCB-206	M+4/M+6	1.40	1.13-1.53	y	49.8	37.5 - 62.5
PCB-208	M+4/M+6	1.45	1.13-1.53	y	48.5	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	51.5	37.5 - 62.5

Analyst: [signature] Date: 8/12/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 11AUG16Z Sam:1 Analysis Date: 11-AUG-16 11:26:03

	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	3.05	2.66-3.60	y	98.2	50.0 - 145
13C-PCB-3	M/M+2	3.19	2.66-3.60	y	101	50.0 - 145
13C-PCB-4	M/M+2	1.56	1.33-1.79	y	97.2	50.0 - 145
13C-PCB-15	M/M+2	1.57	1.33-1.79	y	98.9	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	99.2	50.0 - 145
13C-PCB-37	M/M+2	1.14	0.88-1.20	y	97.4	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	98.0	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	100.0	50.0 - 145
13C-PCB-81	M/M+2	0.79	0.65-0.89	y	96.2	50.0 - 145
13C-PCB-104	M+2/M+4	1.60	1.32-1.78	y	98.7	50.0 - 145
13C-PCB-105	M+2/M+4	1.60	1.32-1.78	y	98.5	50.0 - 145
13C-PCB-114	M+2/M+4	1.58	1.32-1.78	y	99.0	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	98.2	50.0 - 145
13C-PCB-123	M+2/M+4	1.57	1.32-1.78	y	96.9	50.0 - 145
13C-PCB-126	M+2/M+4	1.57	1.32-1.78	y	95.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.26	1.05-1.43	y	100	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	99.4	50.0 - 145
13C-PCB-157	M+2/M+4	1.25	1.05-1.43	y	97.4	50.0 - 145
13C-PCB-167	M+2/M+4	1.25	1.05-1.43	y	98.8	50.0 - 145
13C-PCB-169	M+2/M+4	1.24	1.05-1.43	y	99.2	50.0 - 145
13C-PCB-188	M+2/M+4	1.06	0.89-1.21	y	101	50.0 - 145
13C-PCB-189	M+2/M+4	1.04	0.89-1.21	y	98.4	50.0 - 145
13C-PCB-202	M+2/M+4	0.91	0.76-1.02	y	99.8	50.0 - 145
13C-PCB-205	M+2/M+4	0.90	0.76-1.02	y	95.9	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	102	50.0 - 145
13C-PCB-208	M+2/M+4	0.79	0.65-0.89	y	100	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	97.3	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.10	0.88-1.20	y	99.2	65.0 - 135
13C-PCB-111	M+2/M+4	1.58	1.32-1.78	y	101	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	101	75.0 - 125

Analyst: _____ Date: 8/18/16

FAL ID: ST081116Z3 Filename: 11AUG16Z Sam:1 Acquired: 11-AUG-16 11:26:03 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R150603A CS0301 ConCal: NA EndCal: NA
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	6.56e+07	3.10 y	14:26	1.05	48.3		2.50	-	-	*	-
13C-PCB-1	1.29e+08	3.05 y	14:25	1.14	98.2		2.50				98.2
PCB-3	6.47e+07	3.15 y	16:52	1.05	47.8		2.50	-	-	*	-
13C-PCB-3	1.29e+08	3.19 y	16:51	1.11	101		2.50				101
PCB-4	4.08e+07	1.52 y	18:05	1.14	47.2		2.50	-	-	*	-
13C-PCB-4	7.61e+07	1.56 y	18:04	0.68	97.2		2.50				97.2
PCB-15	6.23e+07	1.56 y	23:39	1.09	48.7		2.50	-	-	*	-
13C-PCB-15	1.17e+08	1.57 y	23:38	1.02	98.9		2.50				98.9
PCB-19	3.92e+07	1.04 y	21:59	1.16	47.9		2.50	-	-	*	-
13C-PCB-19	7.06e+07	1.09 y	21:57	0.61	99.2		2.50				99.2
13C-PCB-9	1.16e+08	1.59 y	19:45	-	84.8		2.50				
PCB-37	5.25e+07	1.04 y	30:18	1.14	47.8		2.50	-	-	*	-
13C-PCB-37	9.62e+07	1.14 y	30:16	1.38	97.4		2.50				97.4
PCB-54	4.61e+07	0.78 y	25:31	1.05	49.8		2.50	-	-	*	-
13C-PCB-54	8.82e+07	0.79 y	25:29	1.25	98.0		2.50				98.0
PCB-104	3.51e+07	1.56 y	29:56	1.14	47.6		2.50	-	-	*	-
13C-PCB-104	6.45e+07	1.60 y	29:55	0.91	98.7		2.50				98.7
13C-PCB-28	1.06e+08	1.10 y	26:34	1.48	99.2		2.50				99.2
13C-PCB-52	7.18e+07	0.78 y	28:51	-	86.2		2.50				
PCB-81	4.21e+07	0.78 y	36:04	1.14	49.0		2.50	-	-	*	-
13C-PCB-81	7.50e+07	0.79 y	36:03	1.27	96.2		2.50				96.2
PCB-77	4.15e+07	0.78 y	36:37	1.10	48.3		2.50	-	-	*	-
13C-PCB-77	7.80e+07	0.80 y	36:37	1.27	100.0		2.50				100.0
PCB-155	3.60e+07	1.27 y	34:06	1.11	48.6		2.50	-	-	*	-
13C-PCB-155	6.68e+07	1.26 y	34:05	1.09	100		2.50				100
13C-PCB-111	7.73e+07	1.58 y	36:10	1.25	101		2.50				101
13C-PCB-101	6.14e+07	1.60 y	34:32	-	84.1		2.50				
PCB-123	3.39e+07	1.51 y	38:15	1.05	49.1		2.50	-	-	*	-
13C-PCB-123	6.56e+07	1.57 y	38:13	1.20	96.9		2.50				96.9
PCB-118	3.82e+07	1.52 y	38:25	1.07	49.5		2.50	-	-	*	-
13C-PCB-118	7.25e+07	1.58 y	38:23	1.31	98.2		2.50				98.2
PCB-114	3.56e+07	1.53 y	39:01	1.08	47.8		2.50	-	-	*	-
13C-PCB-114	6.87e+07	1.58 y	39:01	1.23	99.0		2.50				99.0
PCB-105	3.61e+07	1.54 y	39:50	1.08	48.6		2.50	-	-	*	-
13C-PCB-105	6.87e+07	1.60 y	39:49	1.24	98.5		2.50				98.5
PCB-126	3.31e+07	1.58 y	41:59	1.07	49.0		2.50	-	-	*	-
13C-PCB-126	6.32e+07	1.57 y	41:59	1.17	95.7		2.50				95.7
PCB-167	3.42e+07	1.23 y	43:19	0.98	50.6		2.50	-	-	*	-
13C-PCB-167	6.90e+07	1.25 y	43:18	1.24	98.8		2.50				98.8
PCB-156	3.30e+07	1.22 y	44:33	1.01	49.5		2.50	-	-	*	-
13C-PCB-156	6.60e+07	1.27 y	44:32	1.18	99.4		2.50				99.4
PCB-157	3.30e+07	1.25 y	44:48	0.96	51.1		2.50	-	-	*	-
13C-PCB-157	6.71e+07	1.25 y	44:46	1.22	97.4		2.50				97.4
PCB-169	3.04e+07	1.28 y	46:42	1.00	49.3		2.50	-	-	*	-
13C-PCB-169	6.18e+07	1.24 y	46:42	1.11	99.2		2.50				99.2
PCB-188	3.71e+07	1.05 y	39:35	1.09	48.7		2.50	-	-	*	-
13C-PCB-188	6.98e+07	1.06 y	39:34	1.22	101		2.50				101
PCB-189	3.02e+07	1.06 y	48:22	1.14	49.3		2.50	-	-	*	-
13C-PCB-189	5.37e+07	1.04 y	48:20	0.97	98.4		2.50				98.4
PCB-202	2.56e+07	0.88 y	44:43	1.05	49.3		2.50	-	-	*	-
13C-PCB-202	4.92e+07	0.91 y	44:42	0.88	99.8		2.50				99.8
13C-PCB-178	4.39e+07	1.05 y	42:13	0.77	101		2.50				101
13C-PCB-138	5.63e+07	1.25 y	41:26	-	80.7		2.50				

FAL ID: ST081116Z3 Filename: 11AUG16Z Sam:1 Acquired: 11-AUG-16 11:26:03 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R150603A CS0301 ConCal: NA EndCal: NA
Results: GC Column: DB1 Amount: 1.000

PCB-205	2.70e+07	0.88	y	50:01	1.02	49.7	2.50	-	-	*	-
13C-PCB-205	5.33e+07	0.90	y	49:59	1.38	95.9	2.50				95.9
PCB-208	2.39e+07	1.45	y	49:04	0.93	48.5	2.50	-	-	*	-
13C-PCB-208	5.30e+07	0.79	y	49:03	1.31	100	2.50				100
PCB-206	1.94e+07	1.40	y	51:11	0.94	49.8	2.50	-	-	*	-
13C-PCB-206	4.16e+07	0.79	y	51:10	1.01	102	2.50				102
PCB-209	2.98e+07	1.18	y	52:22	1.10	51.5	2.50	-	-	*	-
13C-PCB-209	5.25e+07	1.20	y	52:21	1.34	97.3	2.50				97.3
13C-PCB-194	4.03e+07	0.90	y	49:44	-	80.0	2.50				

Analyst: [illegible] Date: 8/12/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:11AUG16Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

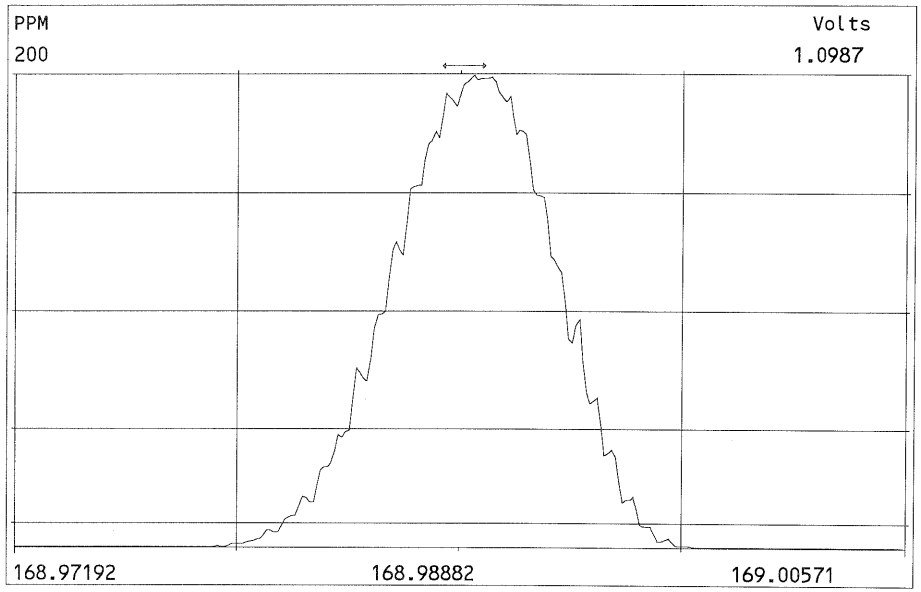
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
11AUG16Z	1	ST081116Z3	1668 CS3 R150603A CS0301	11-AUG-16 11:26:03	NA	NA	BS
11AUG16Z	2	ST081116Z0	1668 CS0 R151116A CS0001	11-AUG-16 12:25:59	NA	NA	BS
11AUG16Z	3	ST081116Z1	1668 CS1 R121023B CS0101	11-AUG-16 13:25:54	NA	NA	BS
11AUG16Z	4	ST081116Z2	1668 CS2 R130426B CS0201	11-AUG-16 14:25:51	NA	NA	BS
11AUG16Z	5	ST081116Z4	1668 CS4 R151116B CS0401	11-AUG-16 15:25:47	NA	NA	BS
11AUG16Z	6	ST081116Z5	1668 CS5 R130426C CS0501	11-AUG-16 16:25:44	NA	NA	BS
11AUG16Z	7	SB081116Z1	Solvent Blank	11-AUG-16 17:25:40	NA	NA	BS
11AUG16Z	8	QC081116Z1	QCS	11-AUG-16 18:25:35	NA	NA	BS
11AUG16Z	9	ST081116Z6	1668 CS3 R150603A CS0351	11-AUG-16 19:25:30	ST081116Z6	ST081116Z7	BS
11AUG16Z	10	SS081116Z1	DAILY 209 151201A CS20951	11-AUG-16 20:25:24	ST081116Z6	ST081116Z7	BS
11AUG16Z	11	03802-001-0001-LC1	CLCS02	11-AUG-16 21:25:17	ST081116Z6	ST081116Z7	BS
11AUG16Z	12	03802-001-0001-LC2	CLCSD02	11-AUG-16 22:25:09	ST081116Z6	ST081116Z7	BS
11AUG16Z	13	03807-001-0001-LC1	CLCS07	11-AUG-16 23:25:02	ST081116Z6	ST081116Z7	BS
11AUG16Z	14	03807-001-0001-LC2	CLCSD07	12-AUG-16 00:24:55	ST081116Z6	ST081116Z7	BS
11AUG16Z	15	03802-001-0001-MB	CBLK02	12-AUG-16 01:24:48	ST081116Z6	ST081116Z7	BS
11AUG16Z	16	03807-001-0001-MB	CBLK07	12-AUG-16 02:24:42	ST081116Z6	ST081116Z7	BS
11AUG16Z	17	10066-001-0001-SA	PX2603	12-AUG-16 03:24:35	ST081116Z6	ST081116Z7	BS
11AUG16Z	18	10066-003-0001-SA	PX2605	12-AUG-16 04:24:28	ST081116Z6	ST081116Z7	BS
11AUG16Z	19	SB081116Z2	Solvent Blank	12-AUG-16 05:24:20	ST081116Z6	ST081116Z7	BS
11AUG16Z	20	ST081116Z7	1668 CS3 150603A CS0352	12-AUG-16 06:24:12	ST081116Z6	ST081116Z7	BS

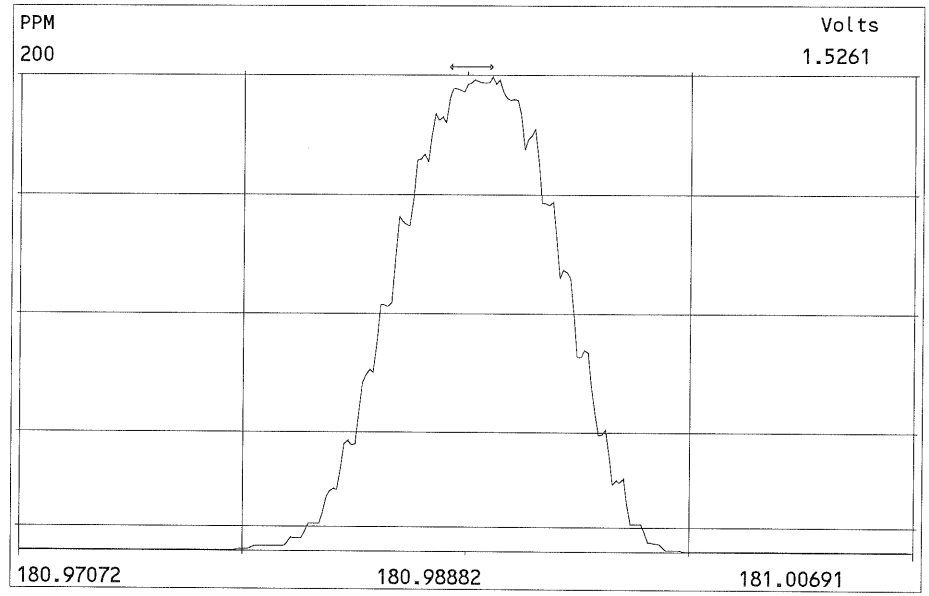
8/12/16

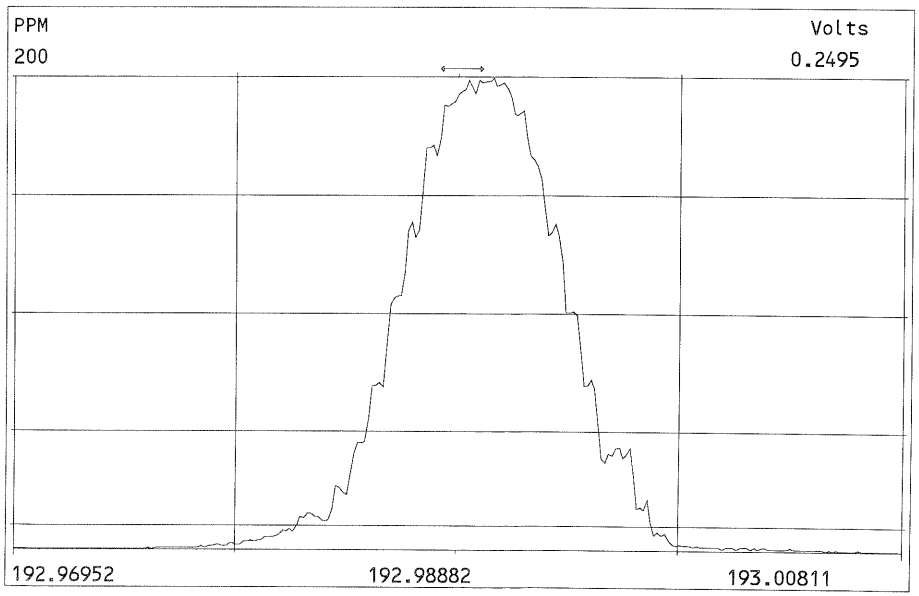
Data Backed Up:_____

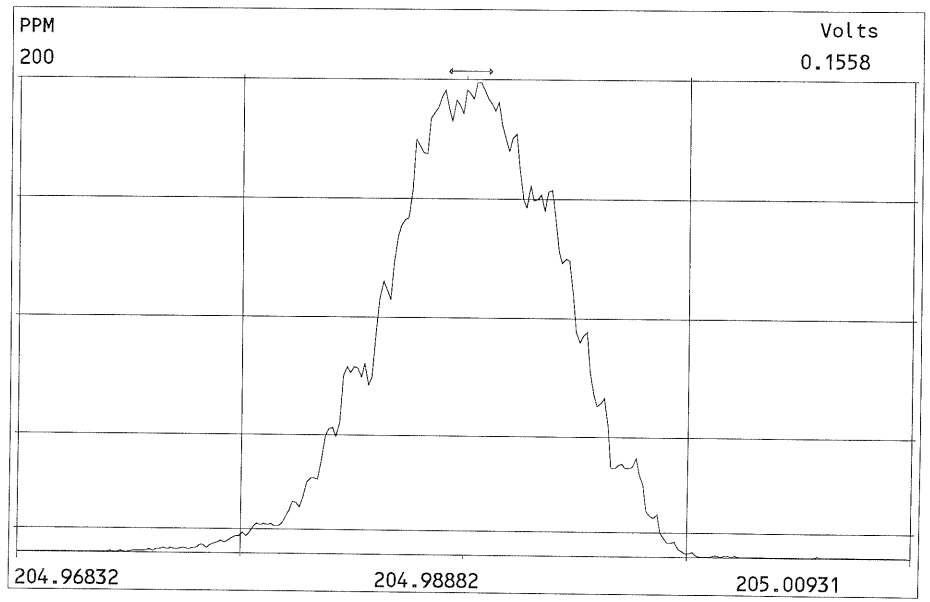
Date:_____

Peak Locate Examination:11-AUG-2016:11:21 File:11AUG16Z PFK-01
Experiment:1668PCB Function:1 Reference:PFK



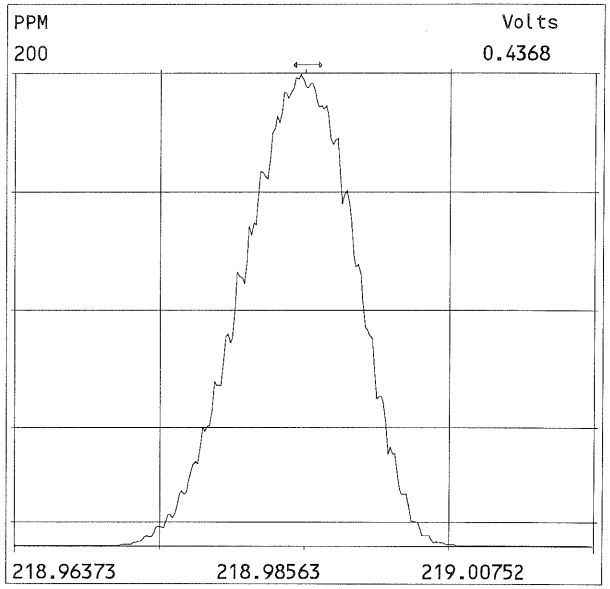


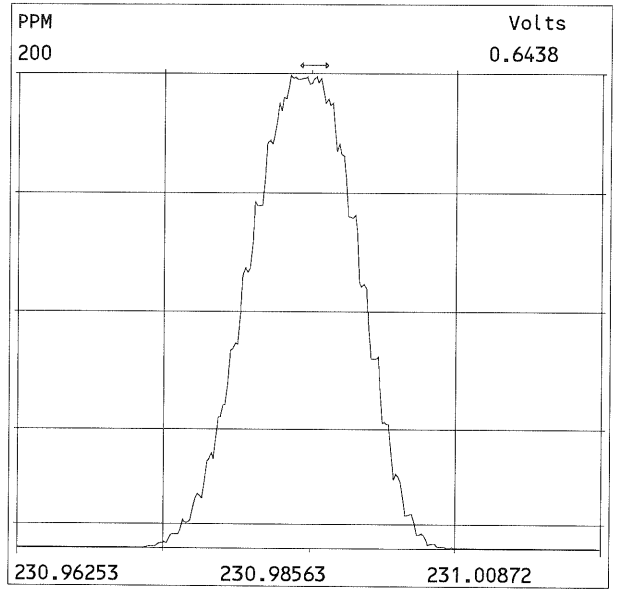


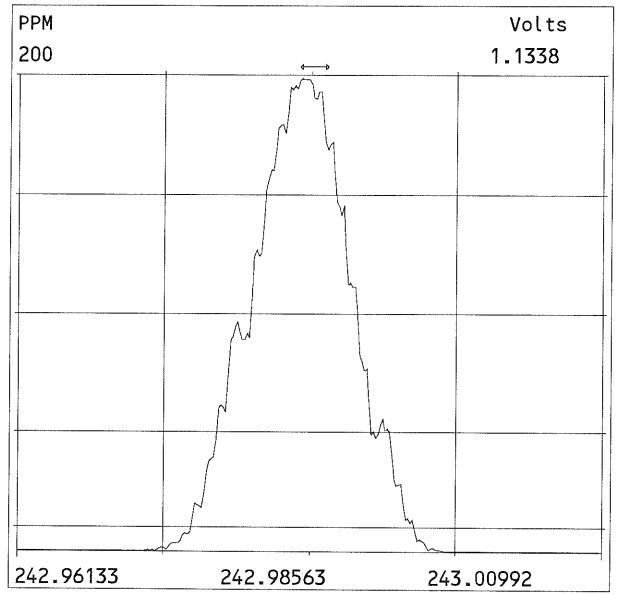


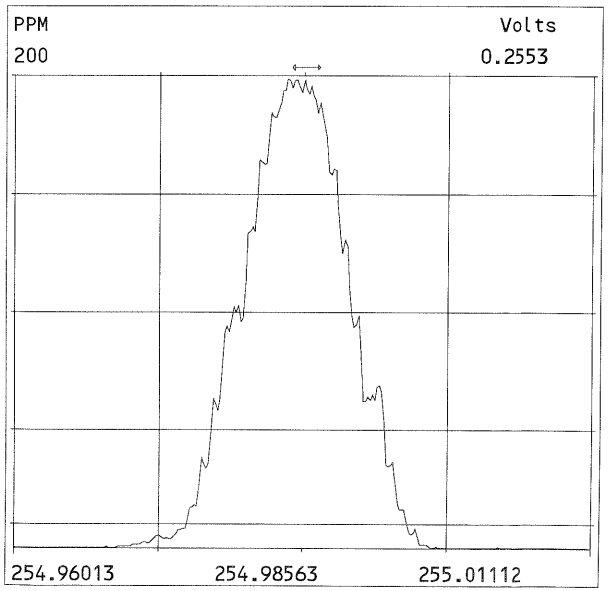
Peak Locate Examination:11-AUG-2016:11:22 File:11AUG16Z PFK01

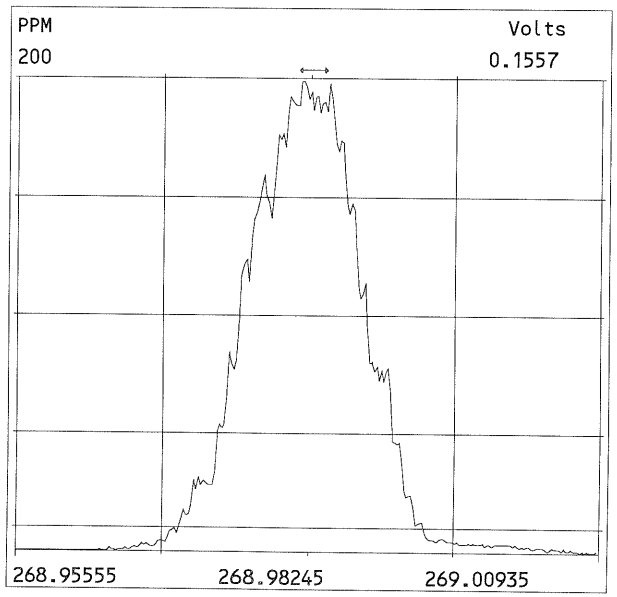
Experiment:1668PCB Function:2 Reference:PFK

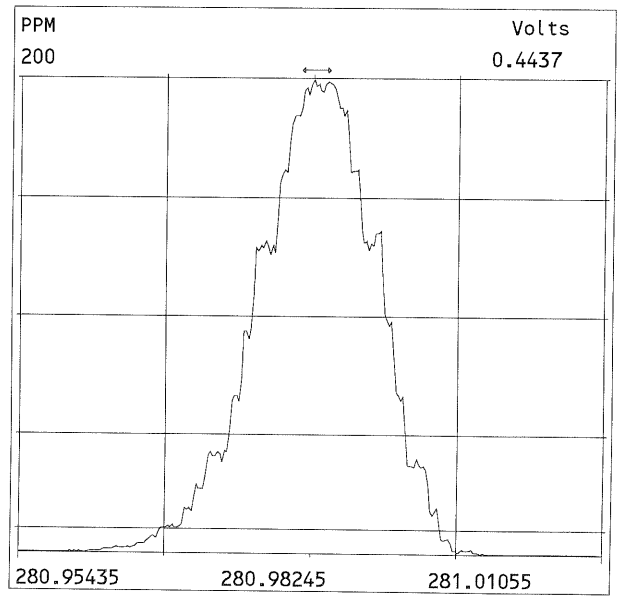






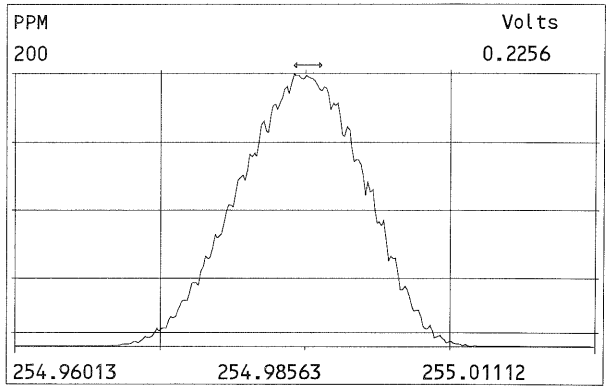


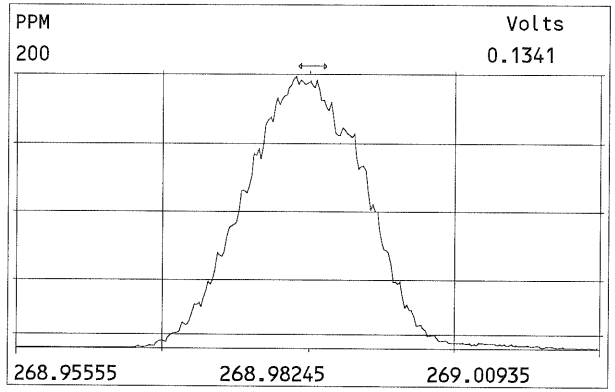


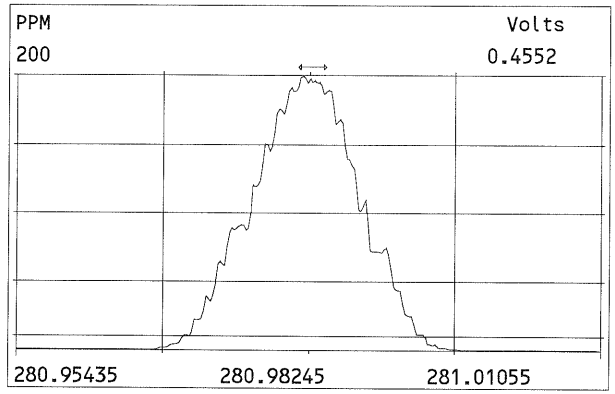


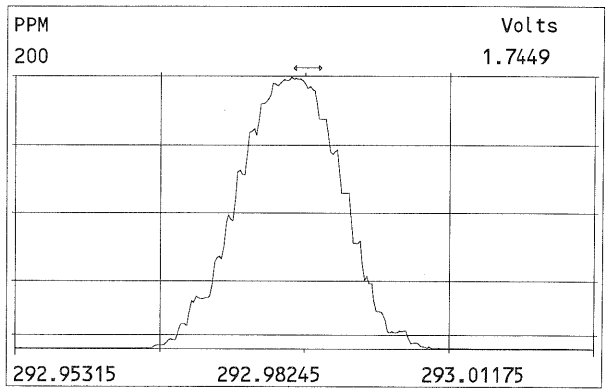
Peak Locate Examination:11-AUG-2016:11:22 File:11AUG16Z PFK01

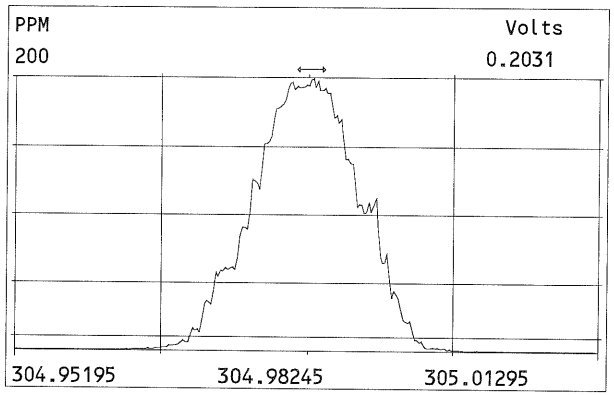
Experiment:1668PCB Function:3 Reference:PFK

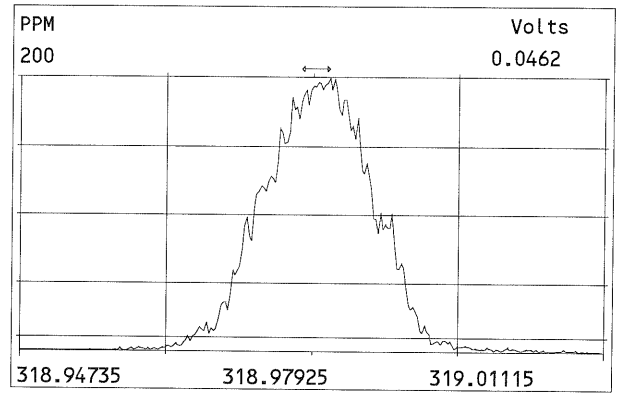


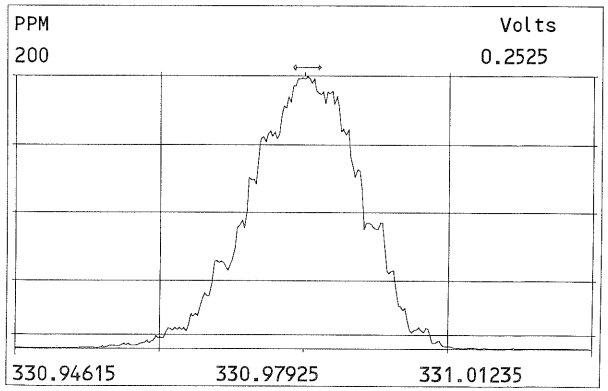


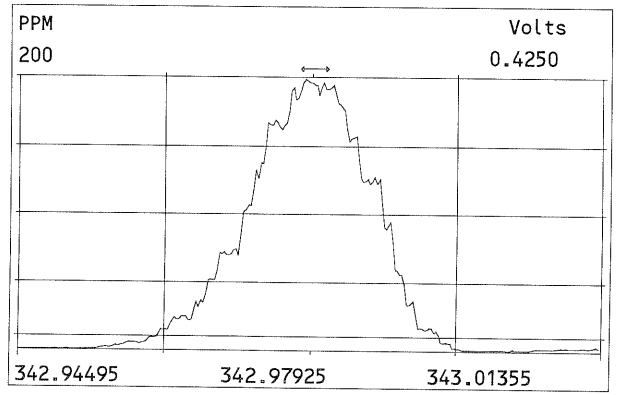






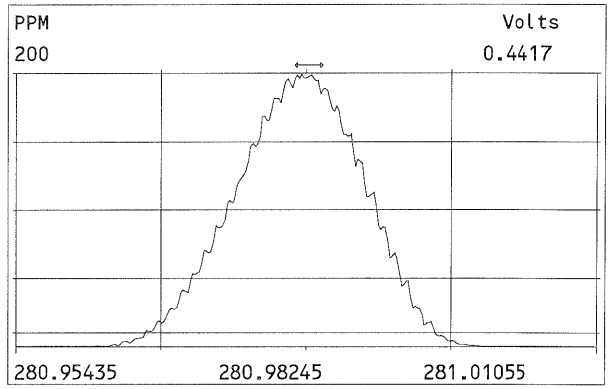


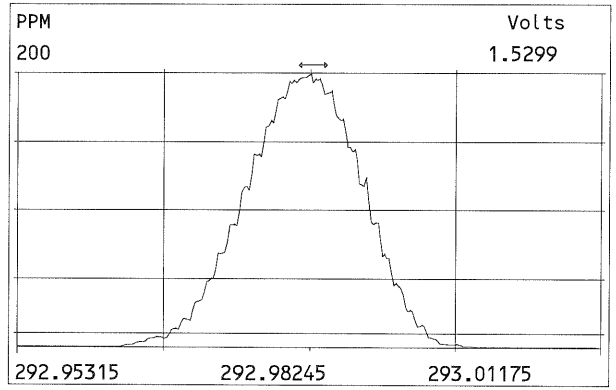


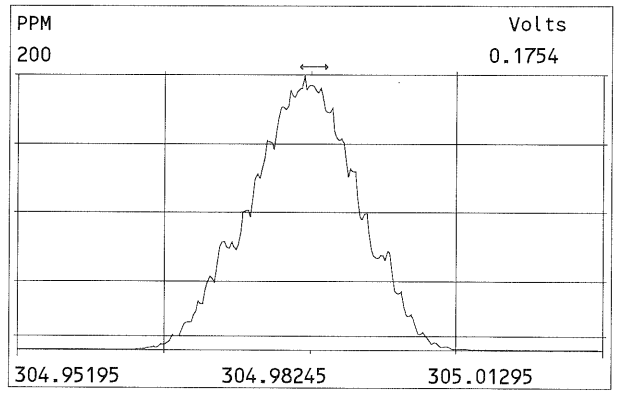


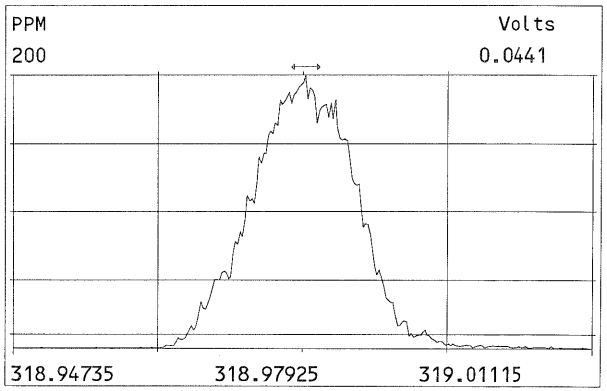
Peak Locate Examination:11-AUG-2016:11:23 File:11AUG16Z PFK01

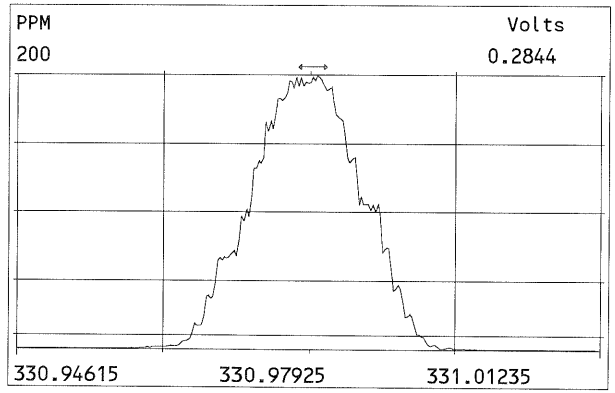
Experiment:1668PCB Function:4 Reference:PFK

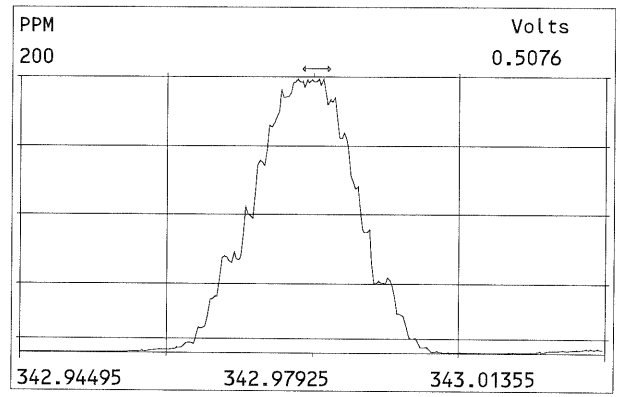


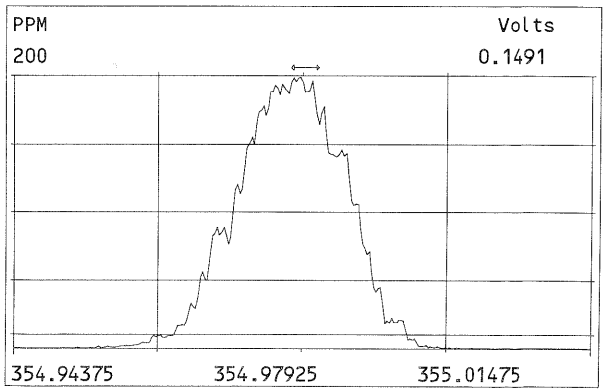


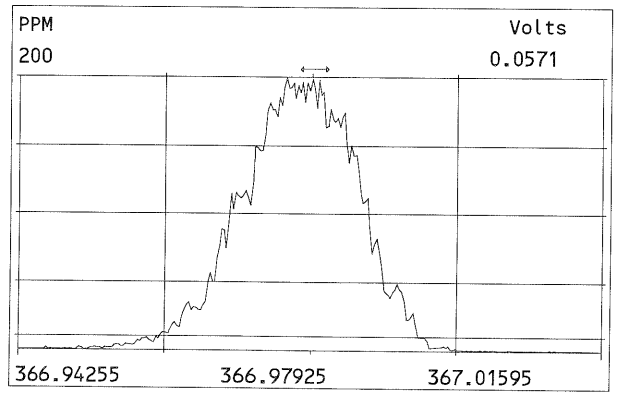


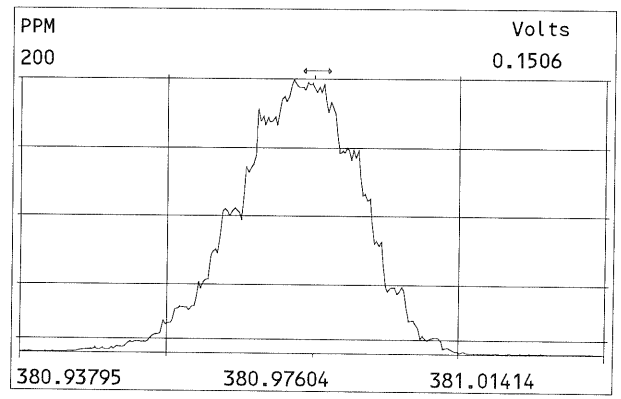




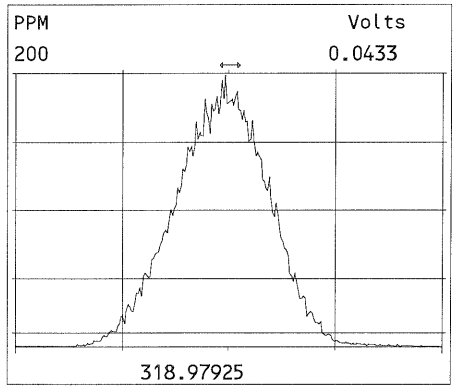


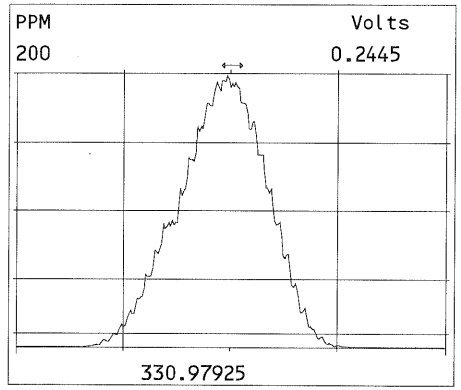


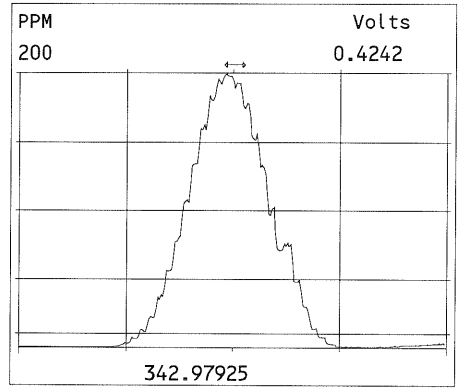


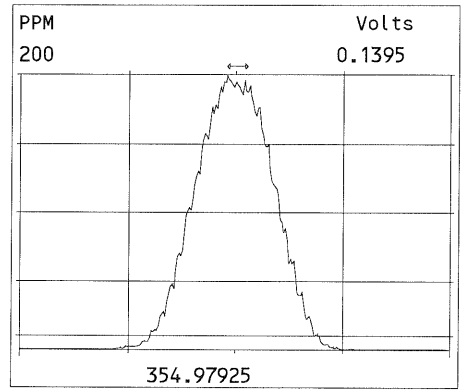


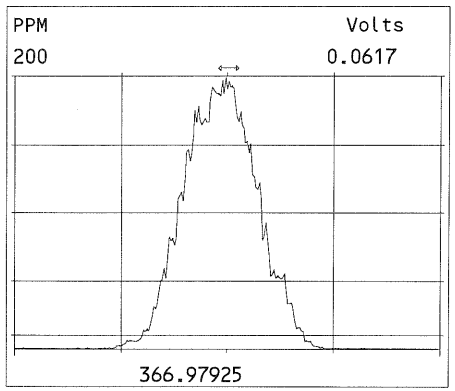
Peak Locate Examination:11-AUG-2016:11:24 File:11AUG16Z PFK01
Experiment:1668PCB Function:5 Reference:PFK

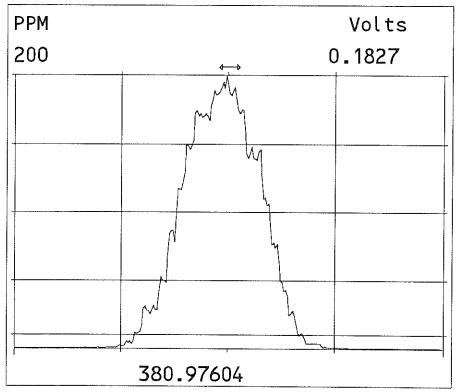


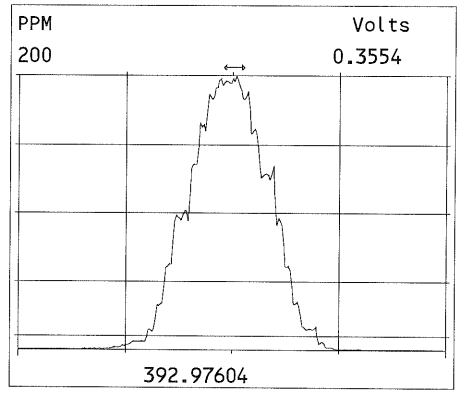


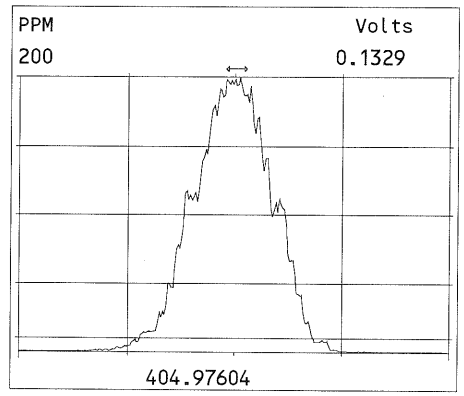


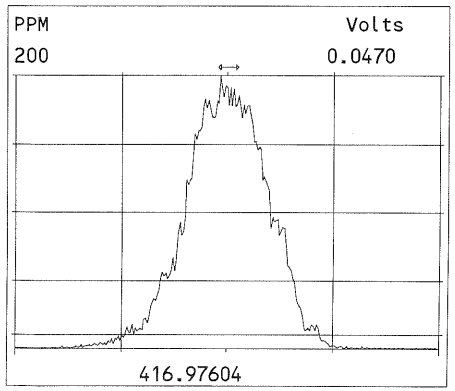


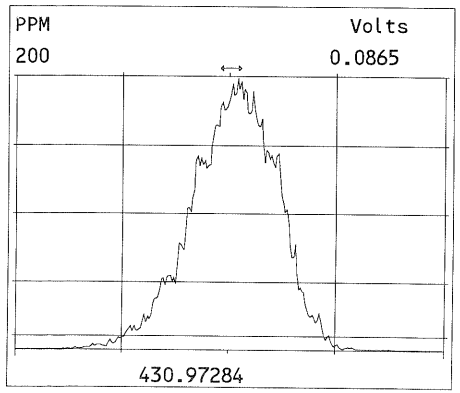


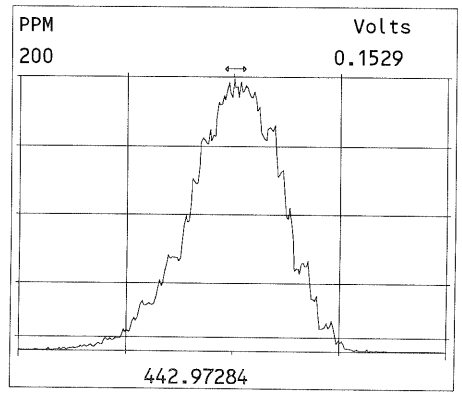






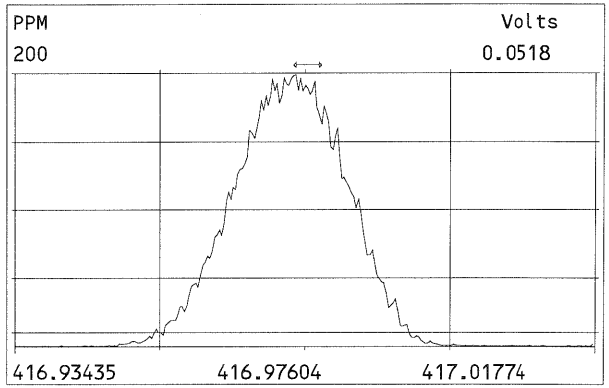


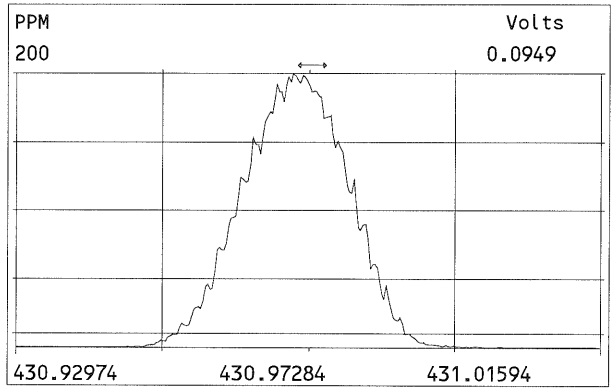


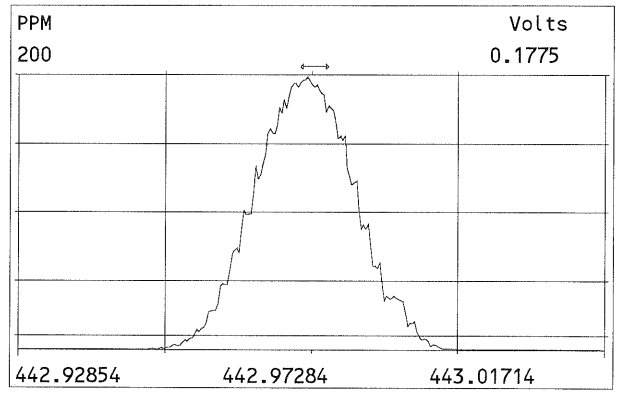


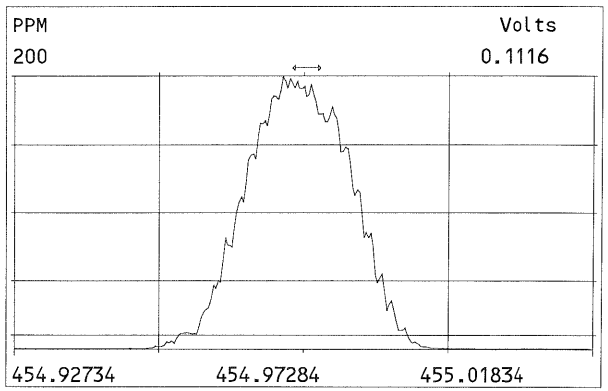
Peak Locate Examination:11-AUG-2016:11:25 File:11AUG16Z PFK01

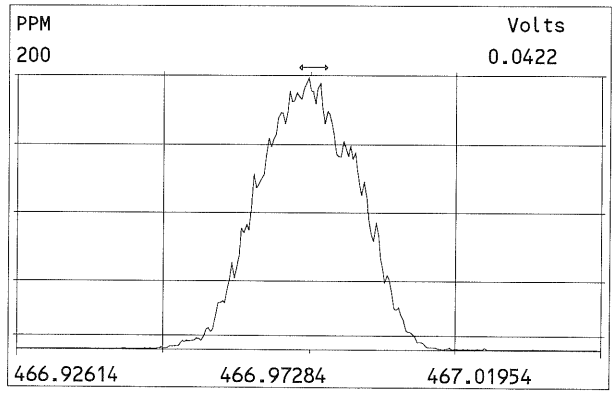
Experiment:1668PCB Function:6 Reference:PFK

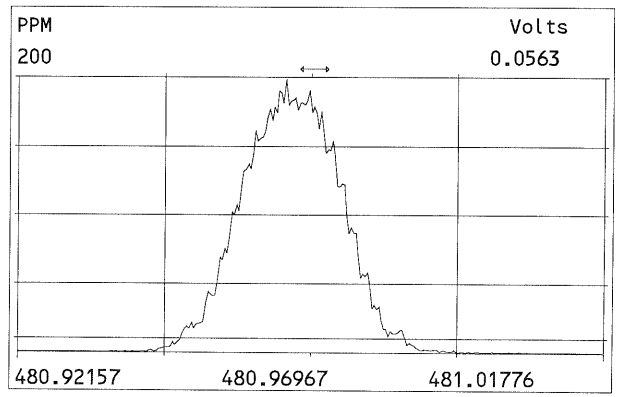


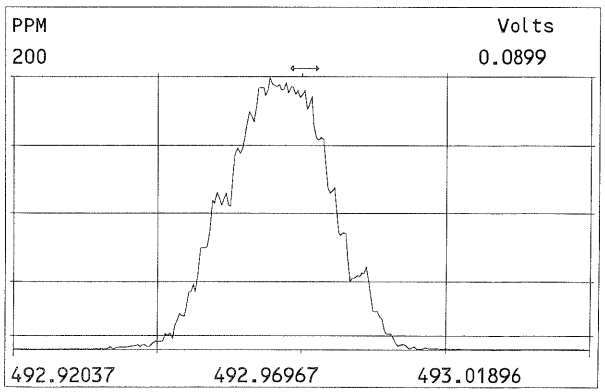


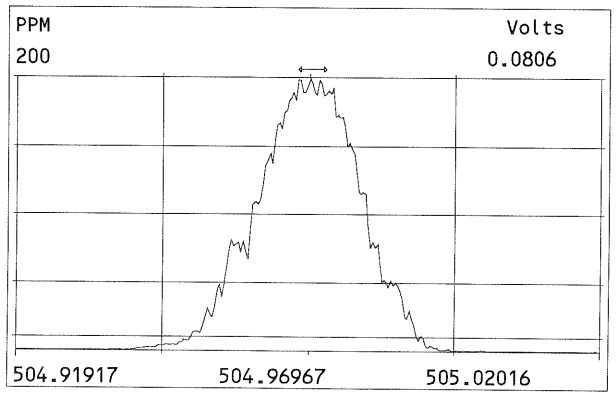


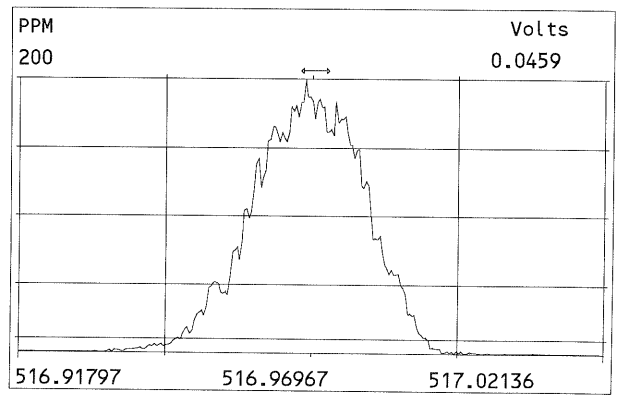












File:11AUG16Z #1-900 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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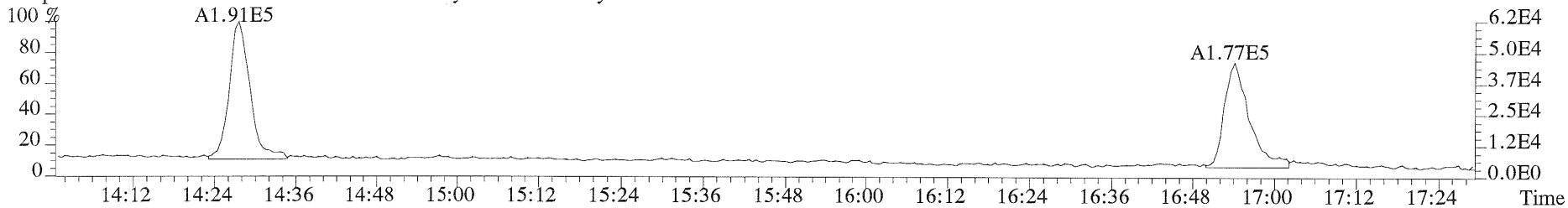

File:11AUG16Z #1-900 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
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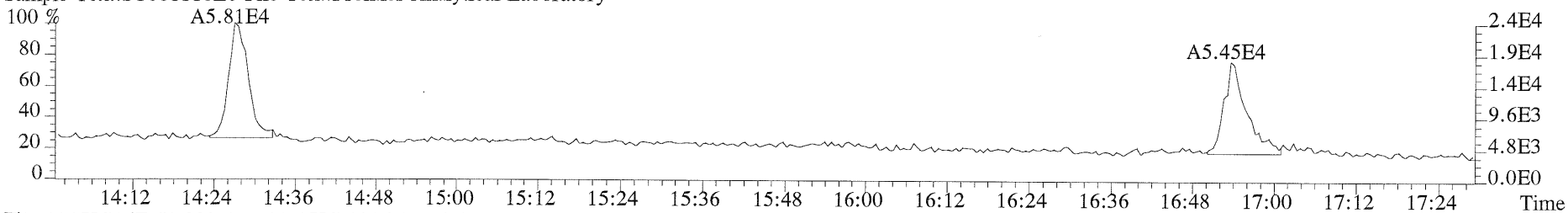

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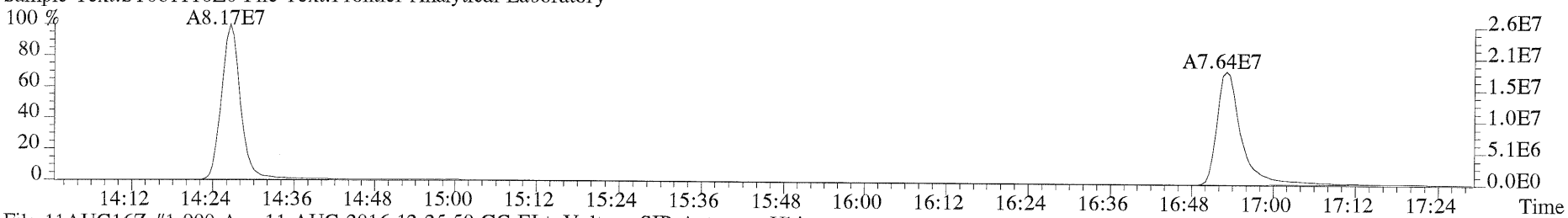
200.0795 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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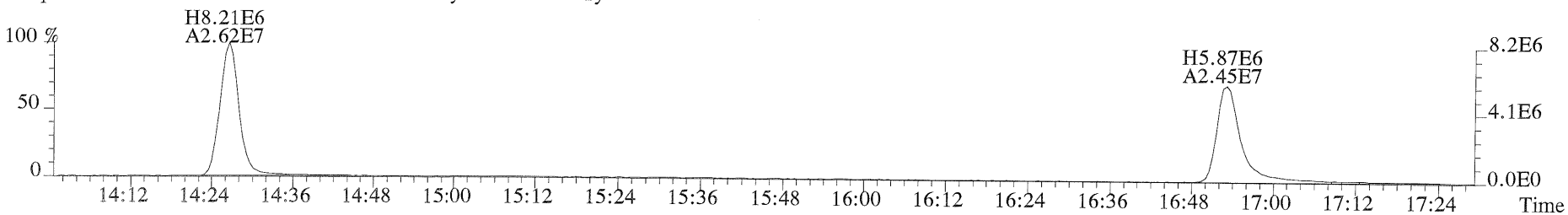
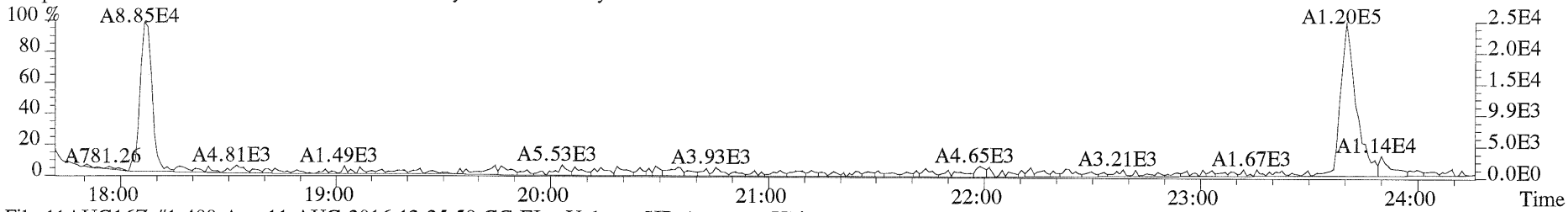
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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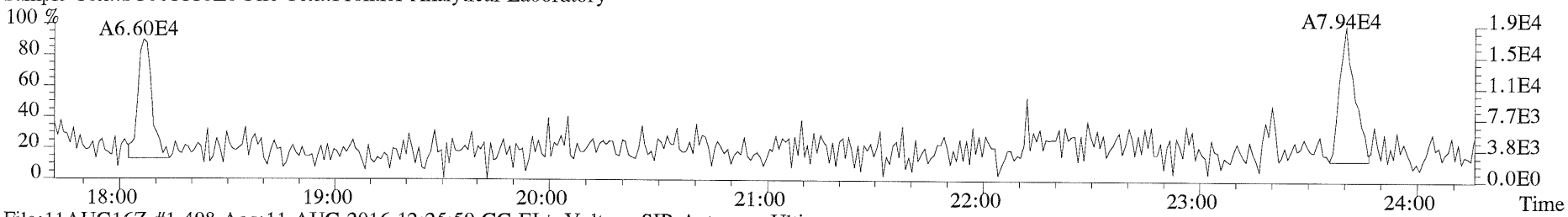
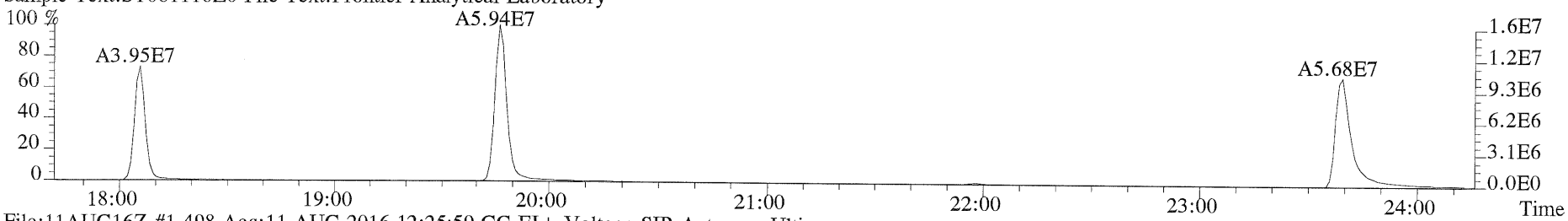
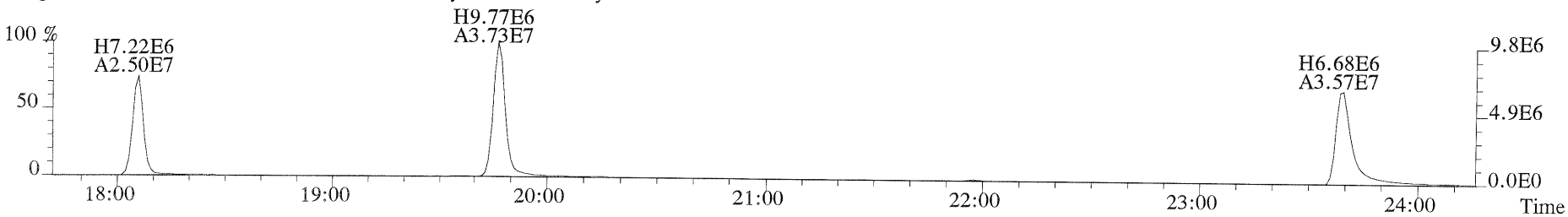
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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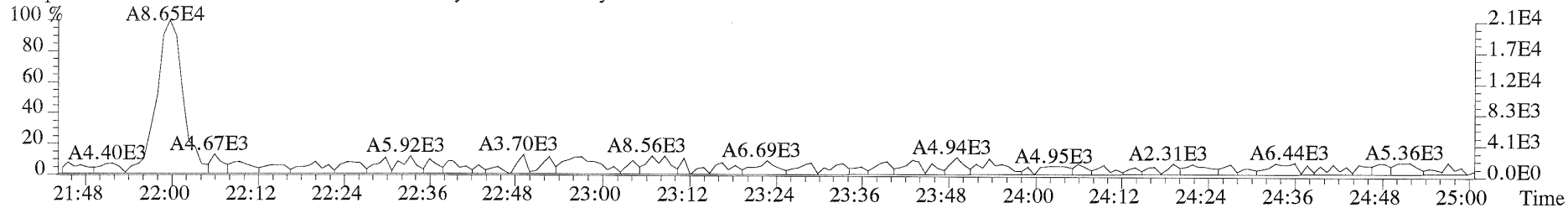
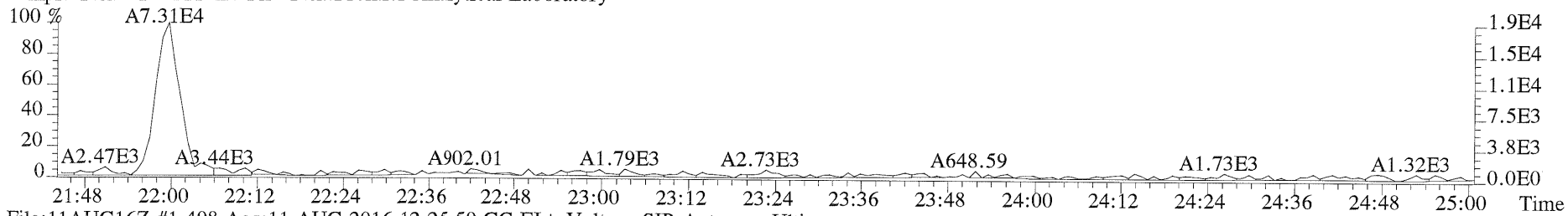
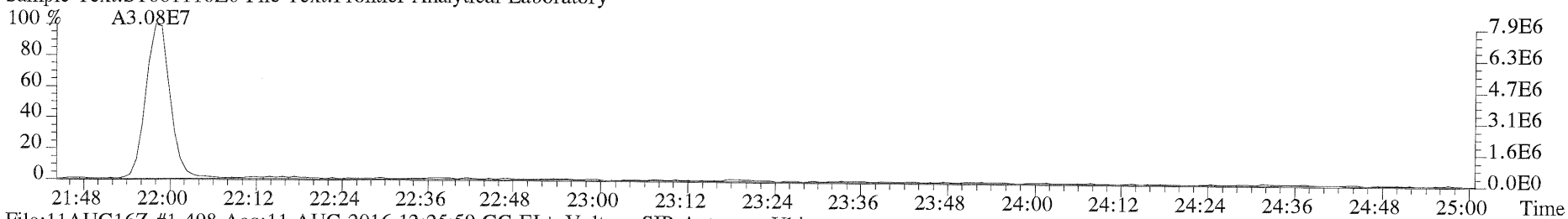
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



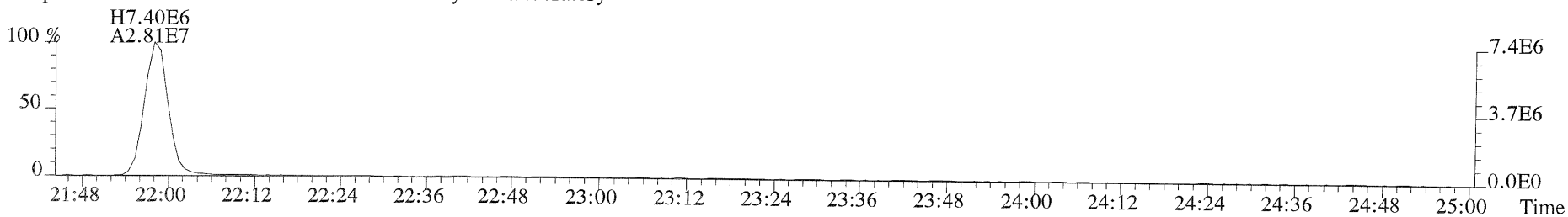
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



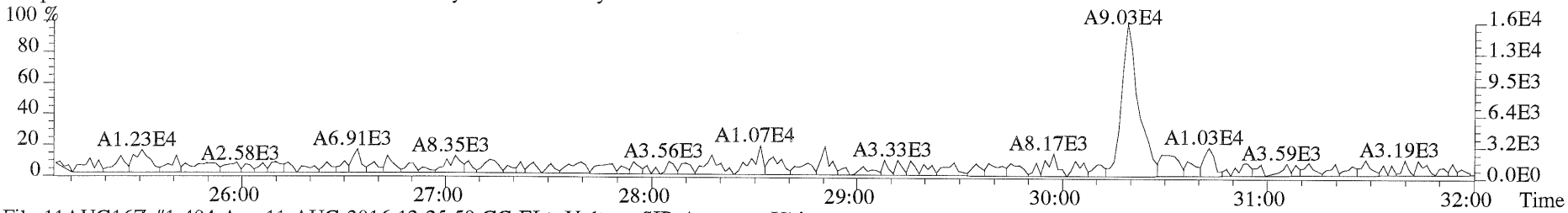
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



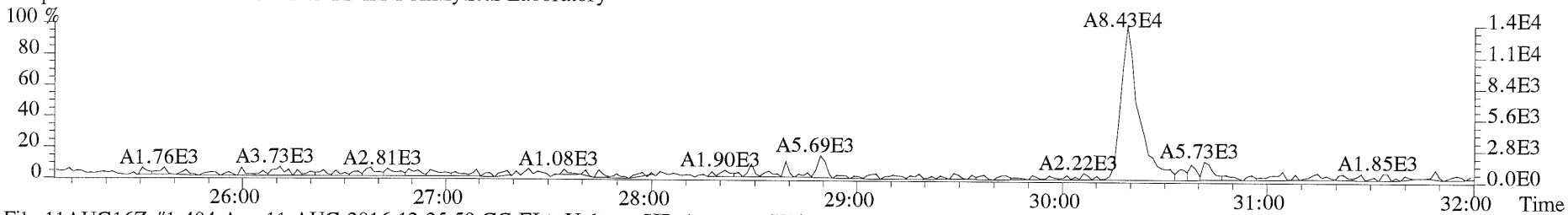
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



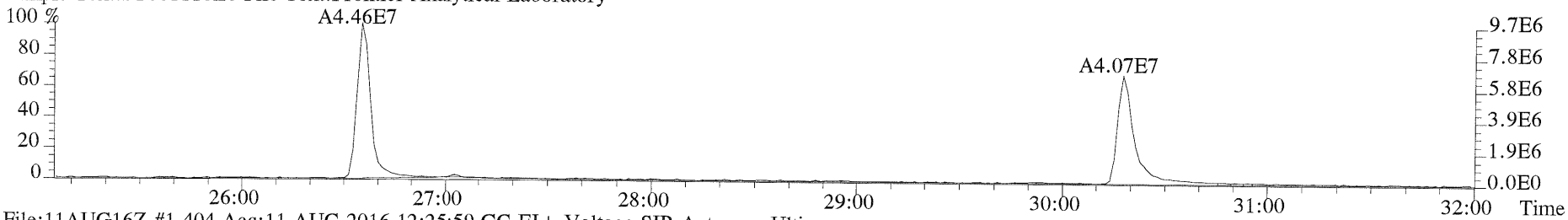
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



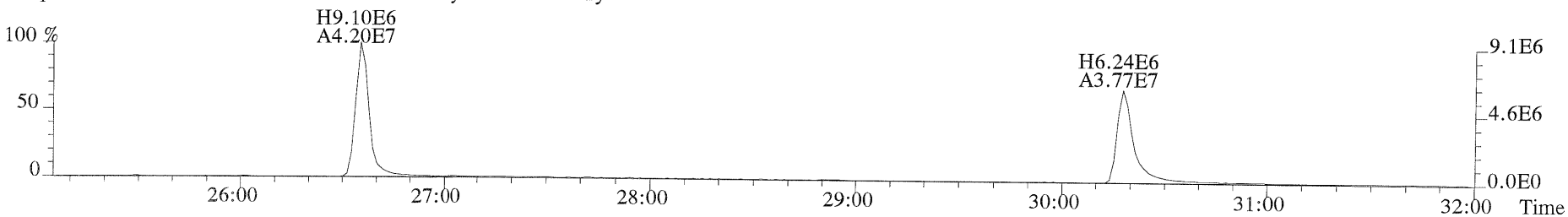
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



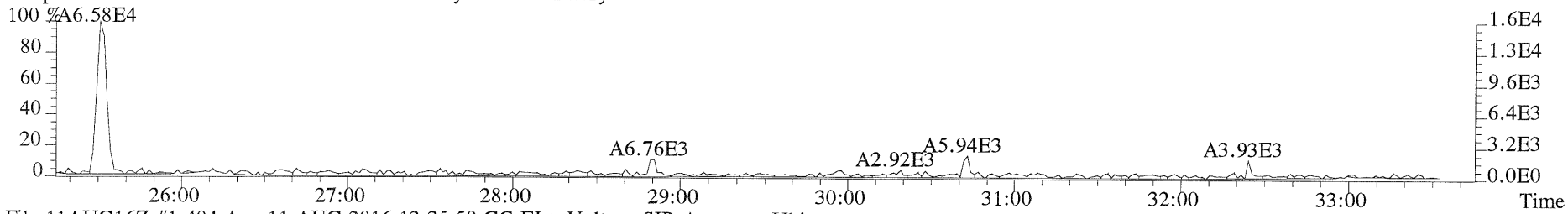
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
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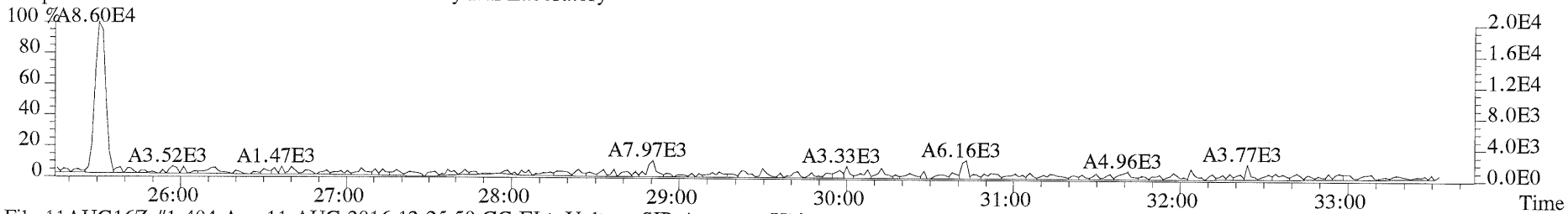
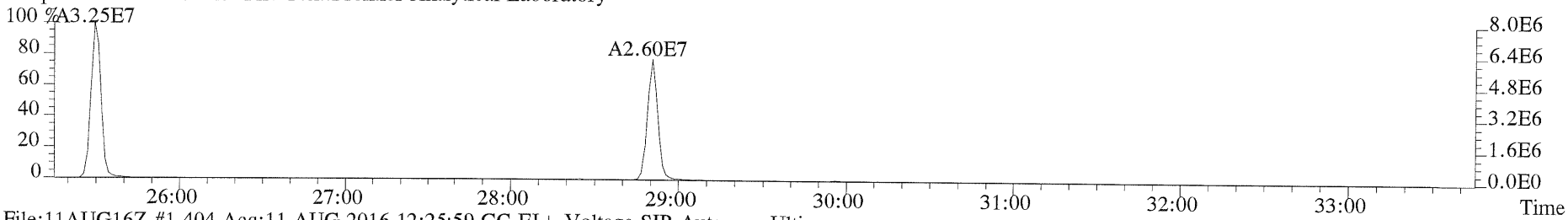
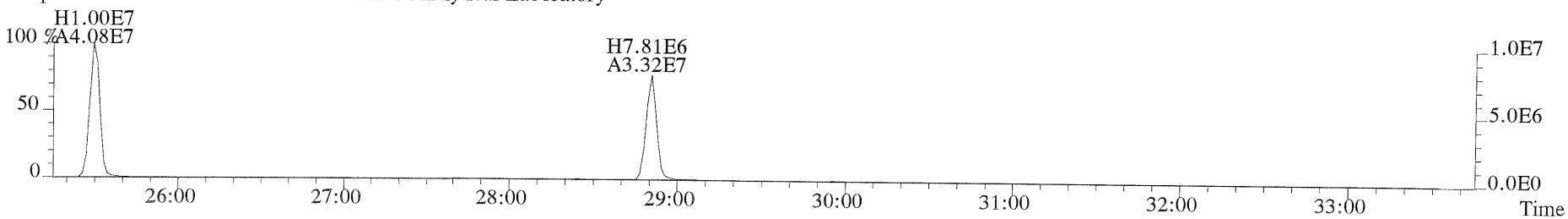
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



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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
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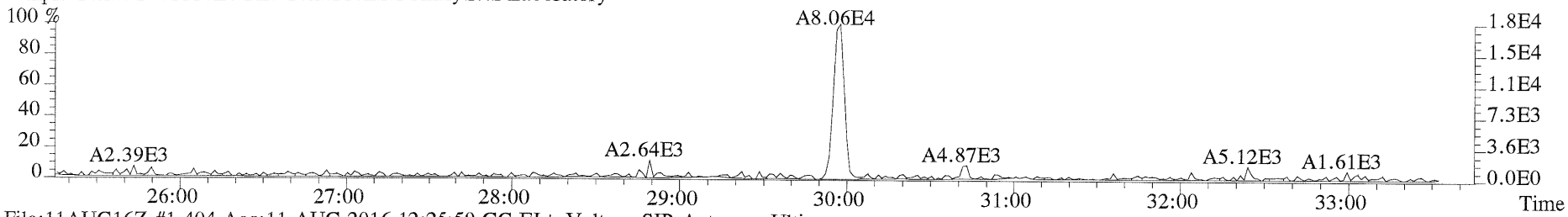
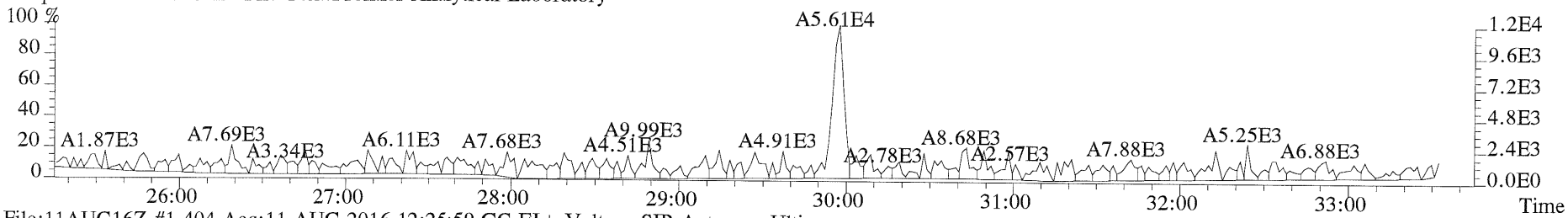
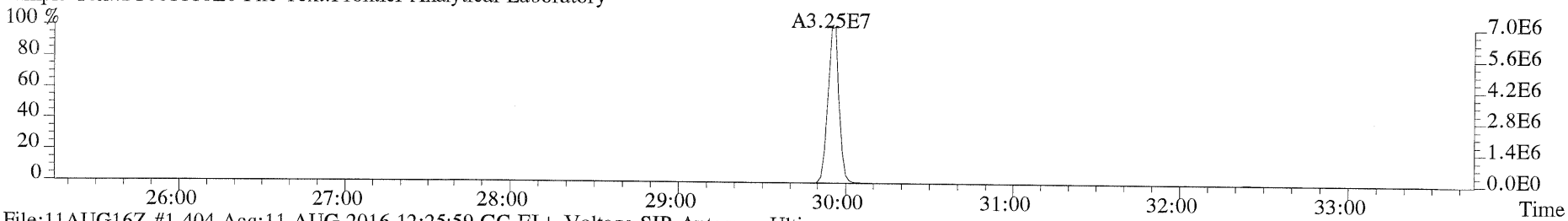


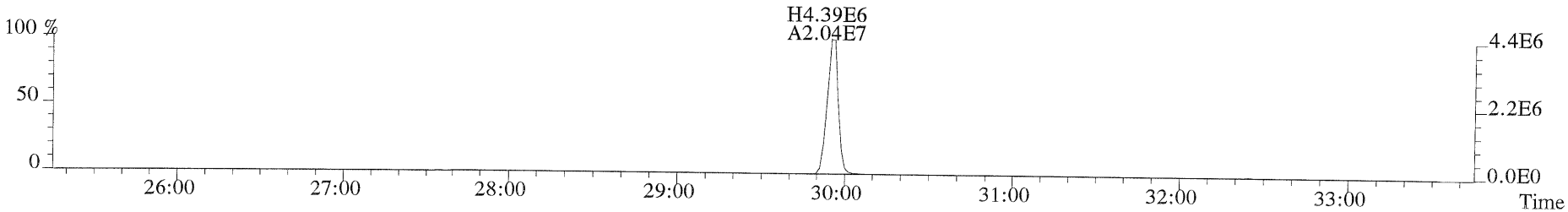
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



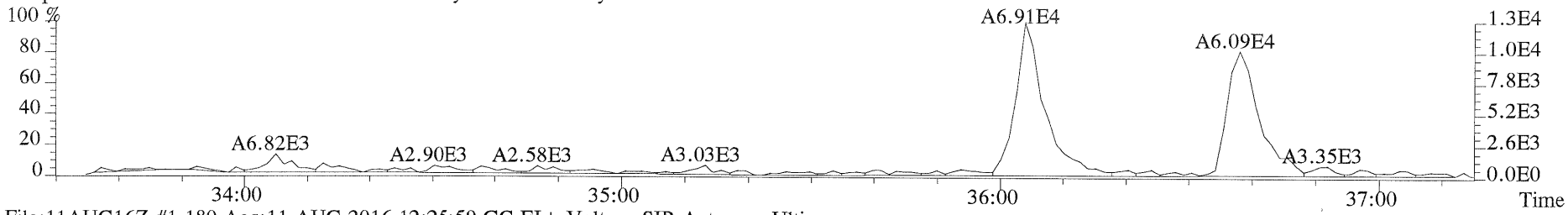
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



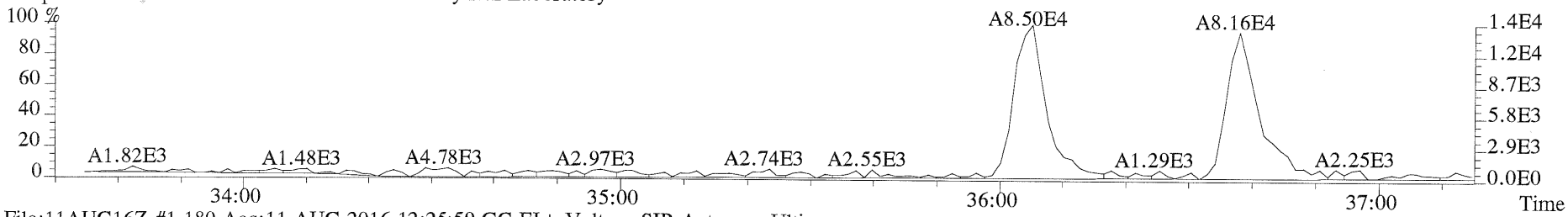
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



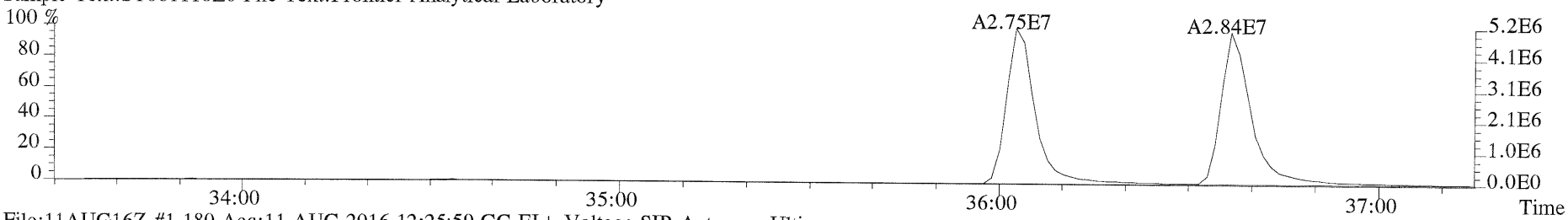
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



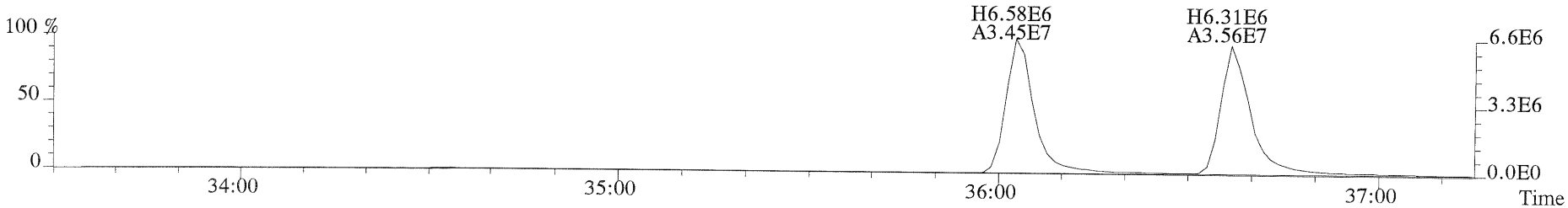
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



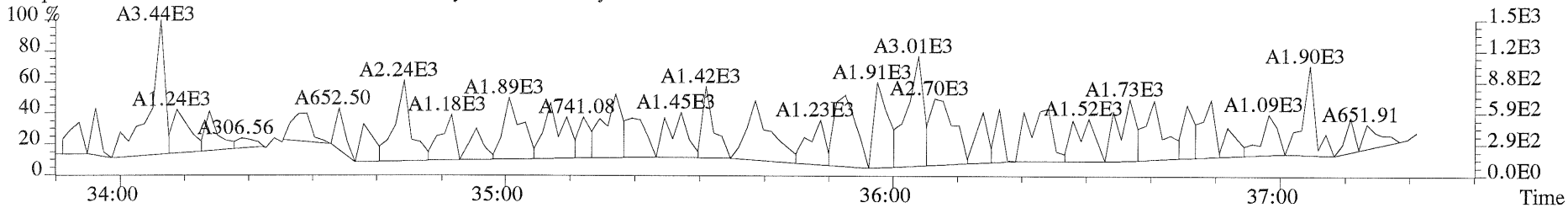
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



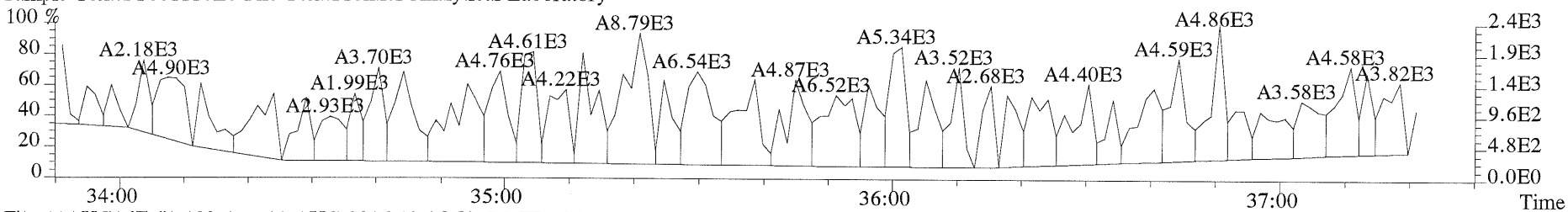
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



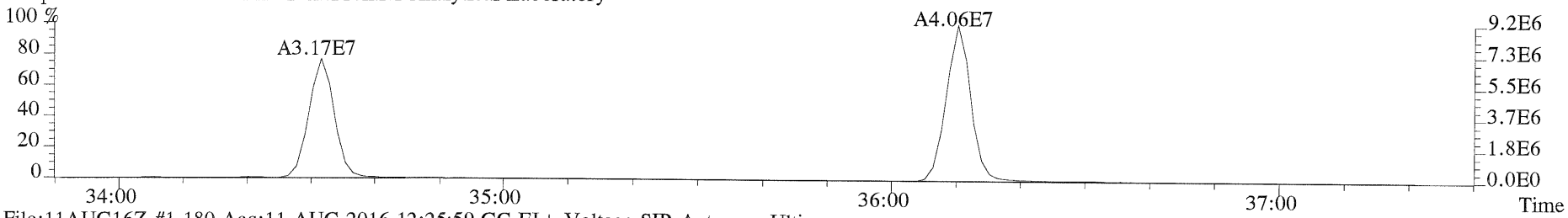
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



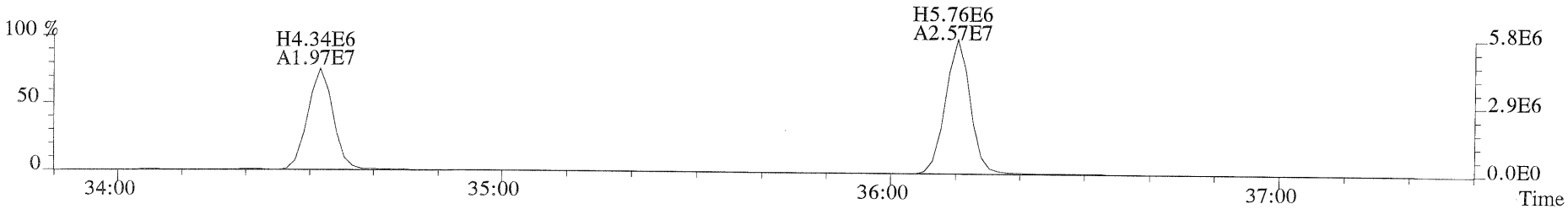
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



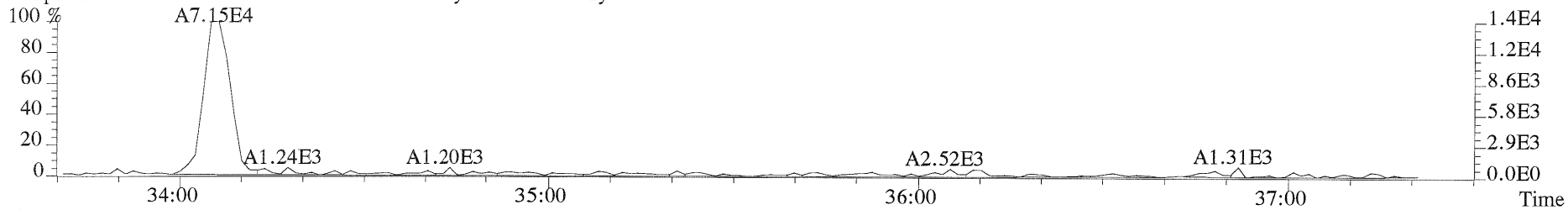
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



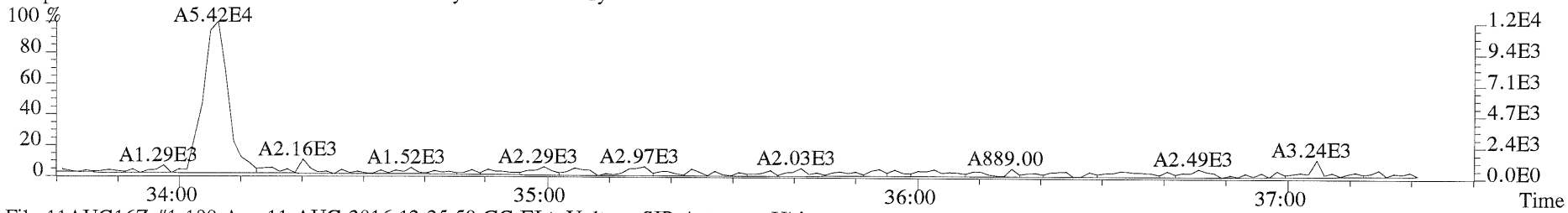
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



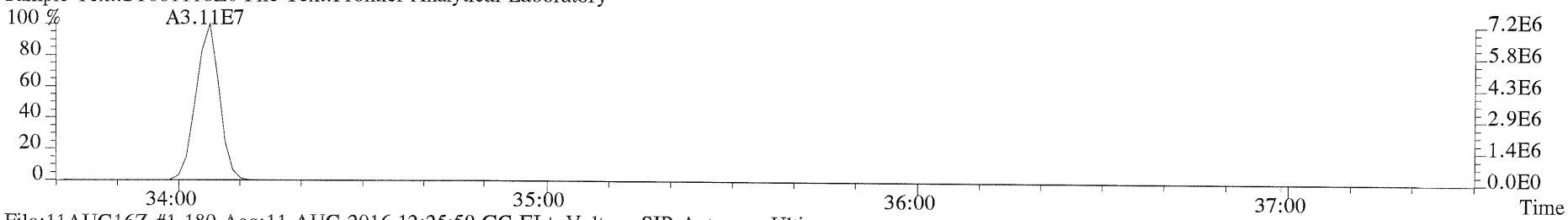
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



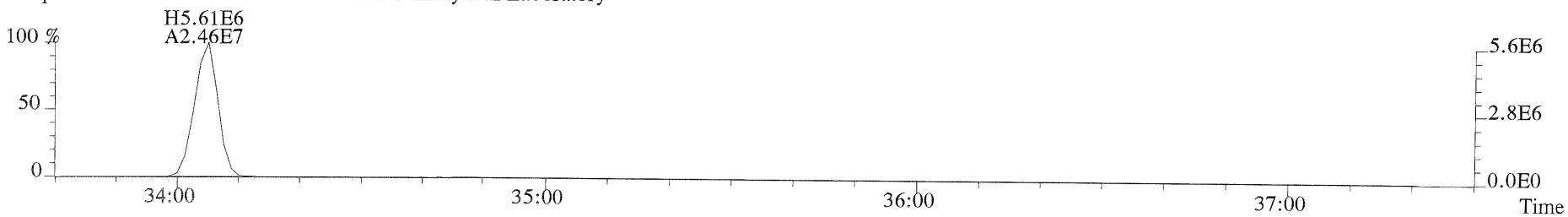
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



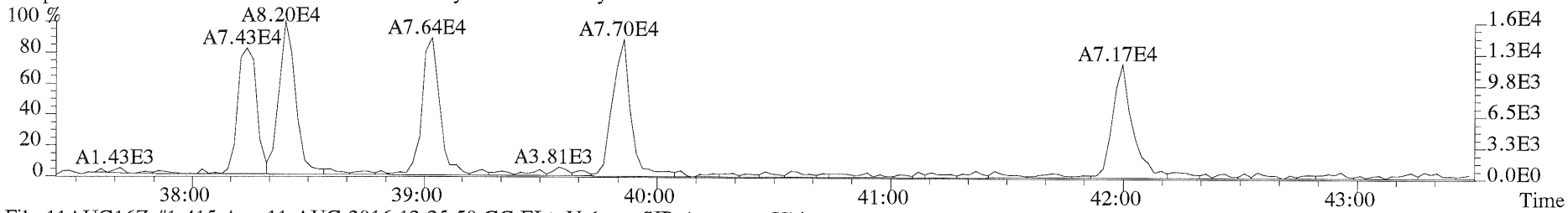
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



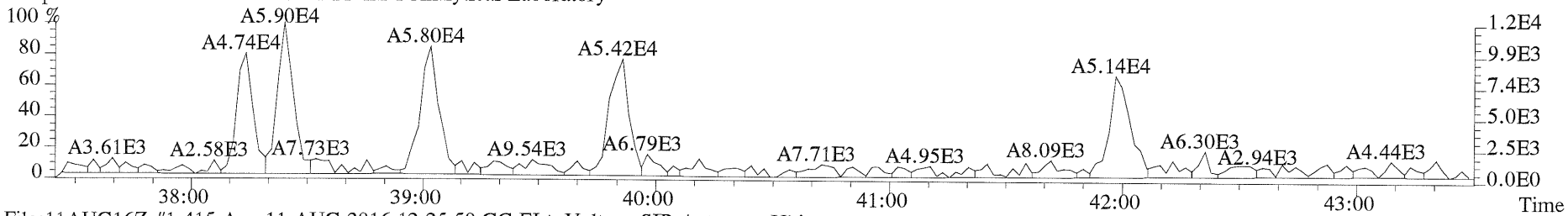
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



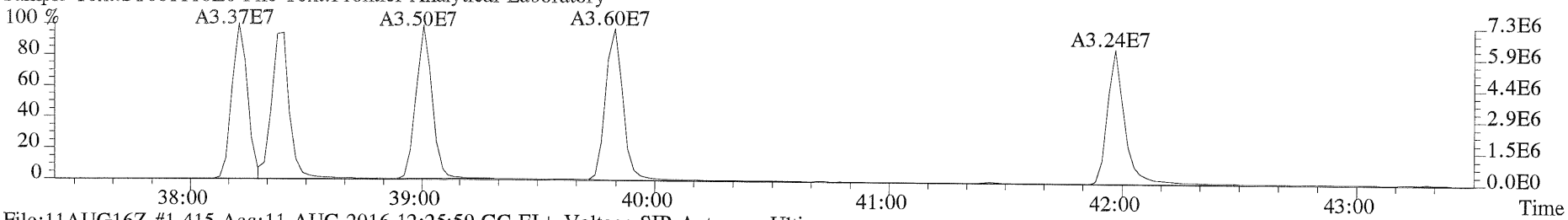
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



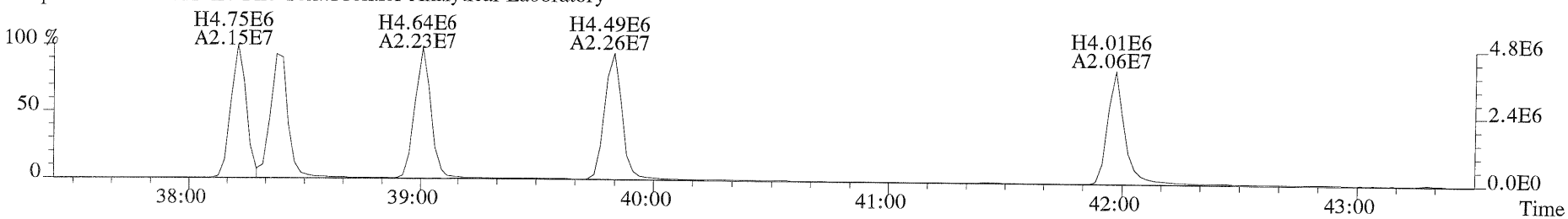
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



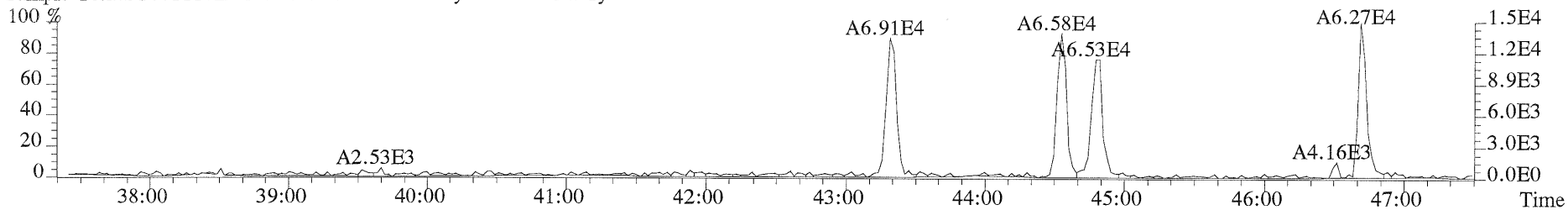
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



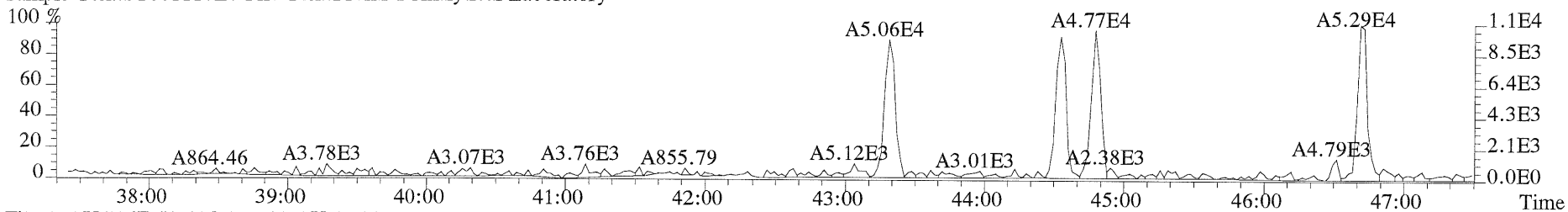
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



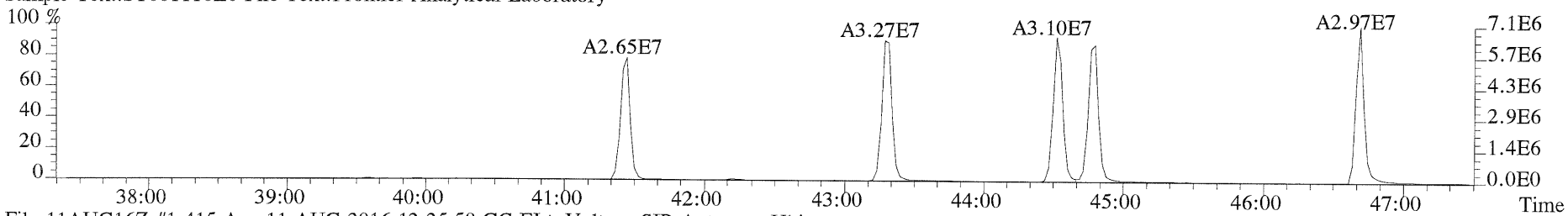
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



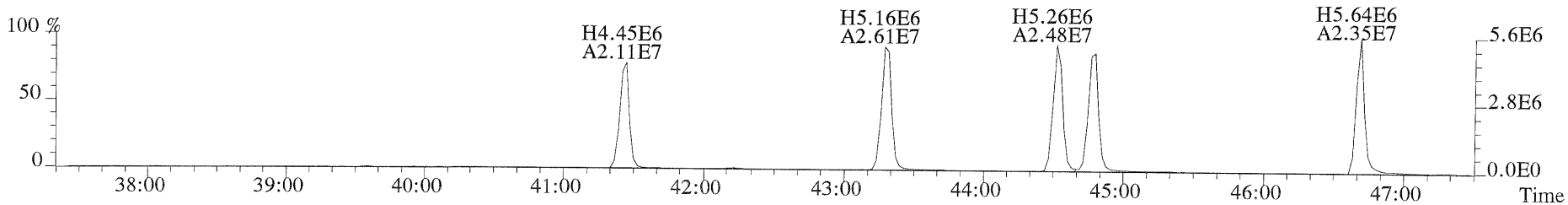
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



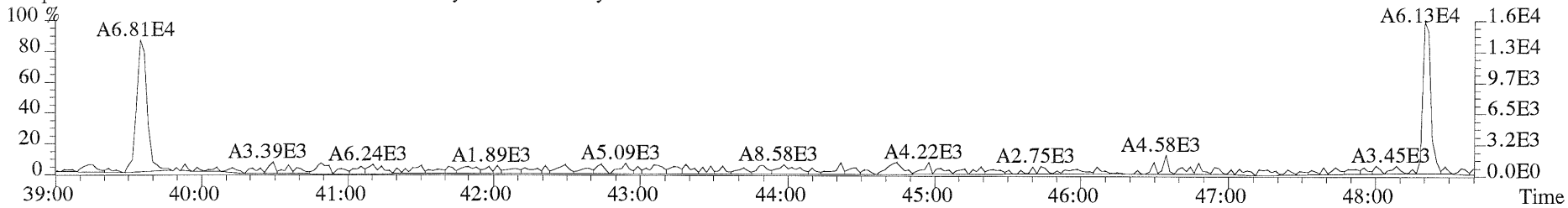
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



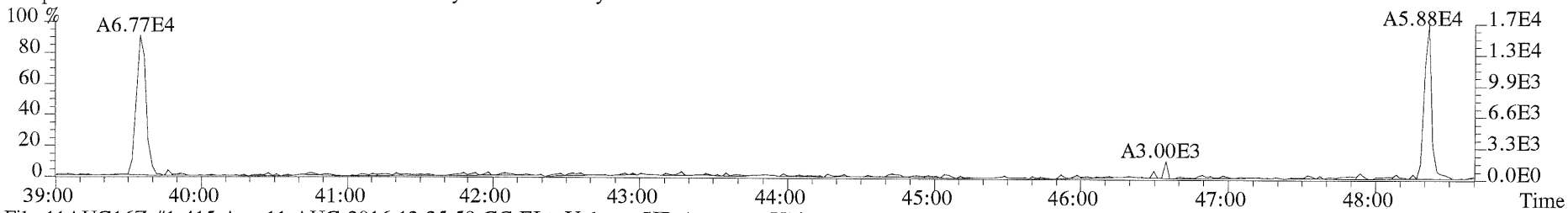
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



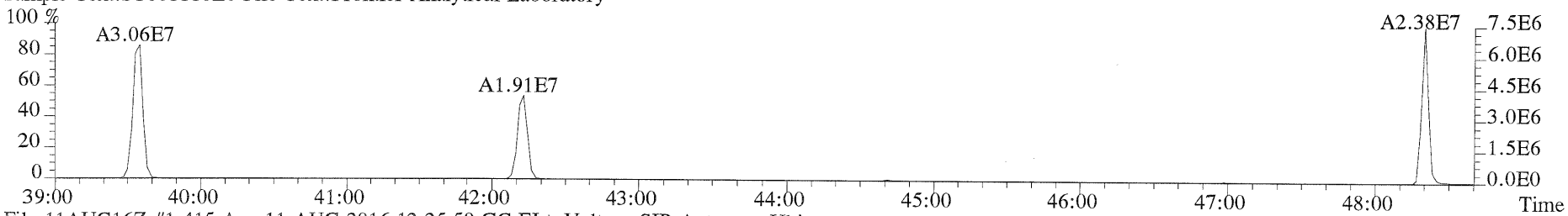
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



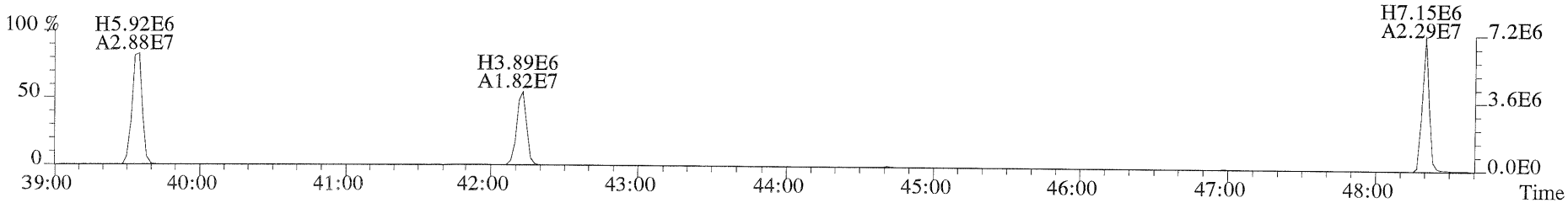
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



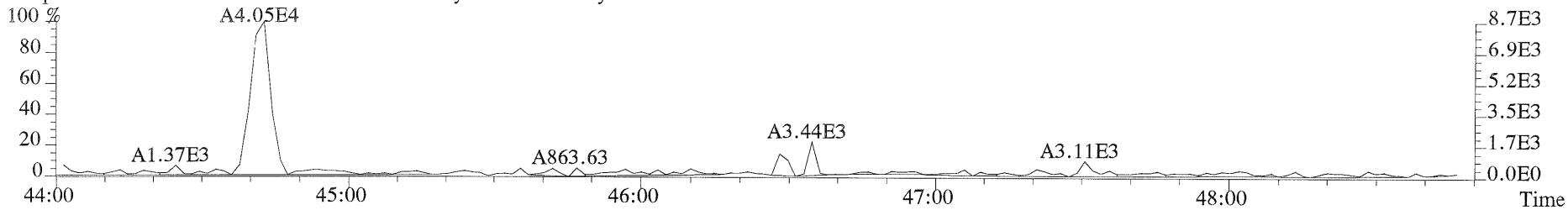
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



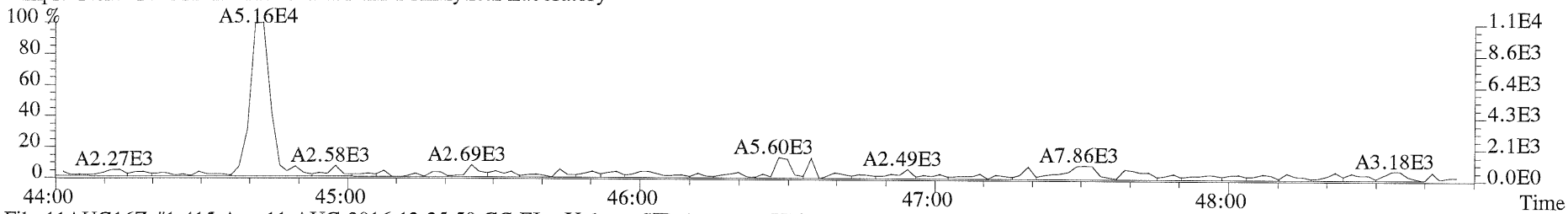
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



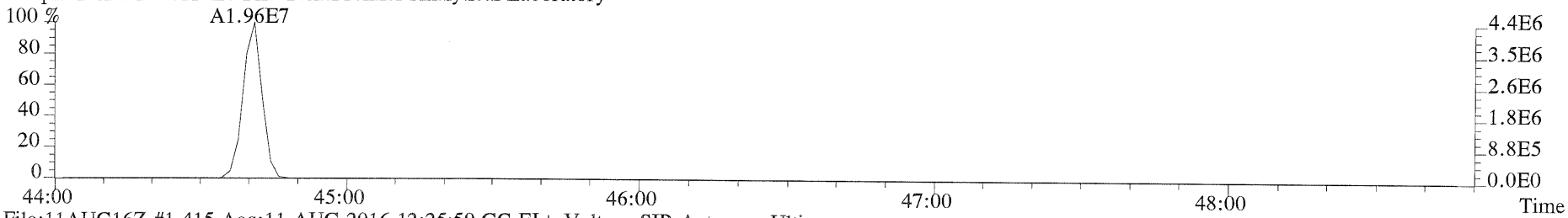
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



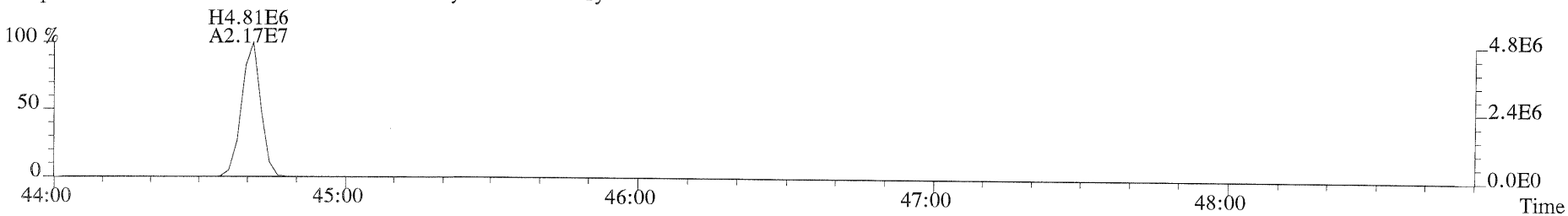
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



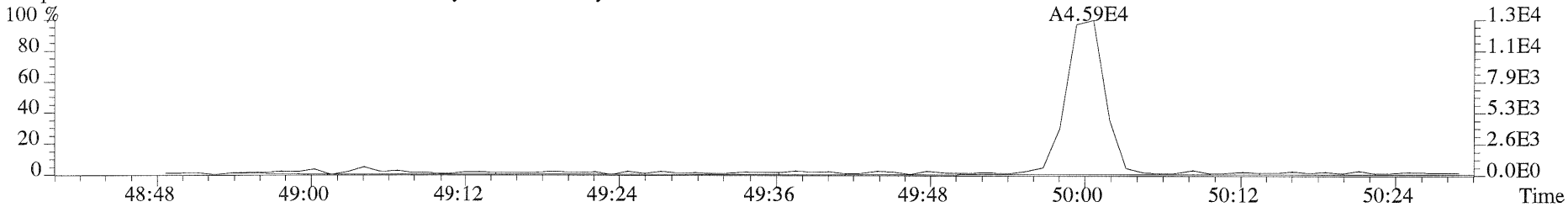
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



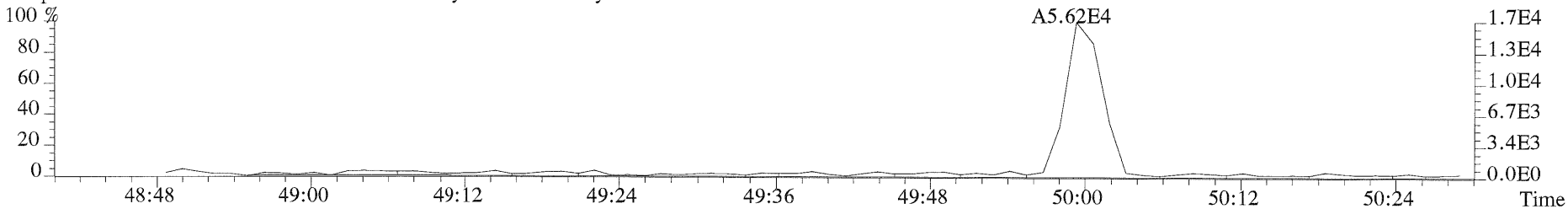
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



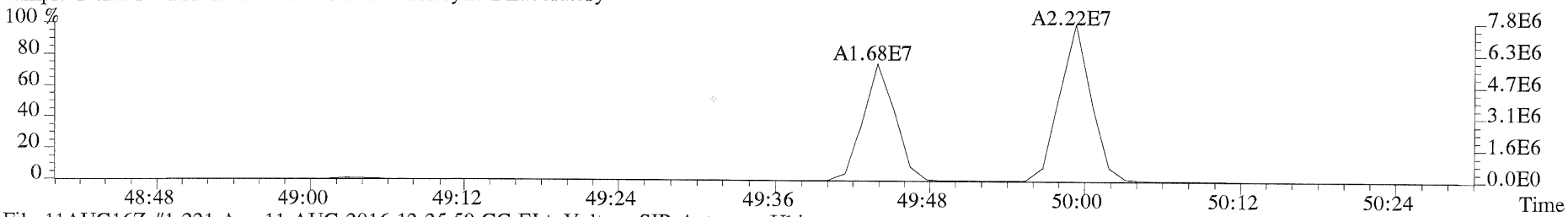
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



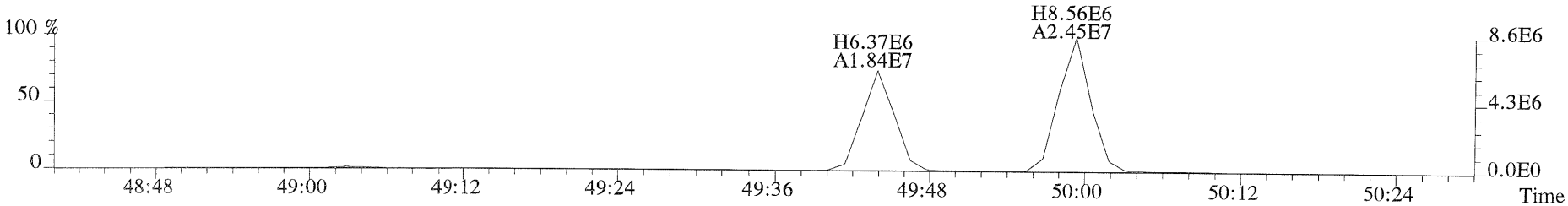
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



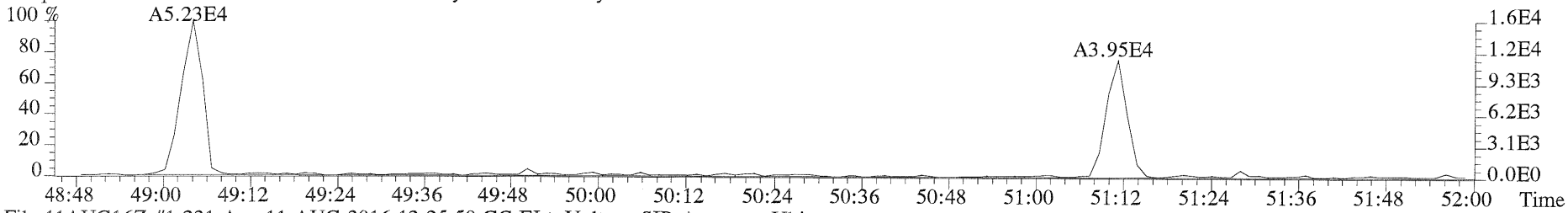
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



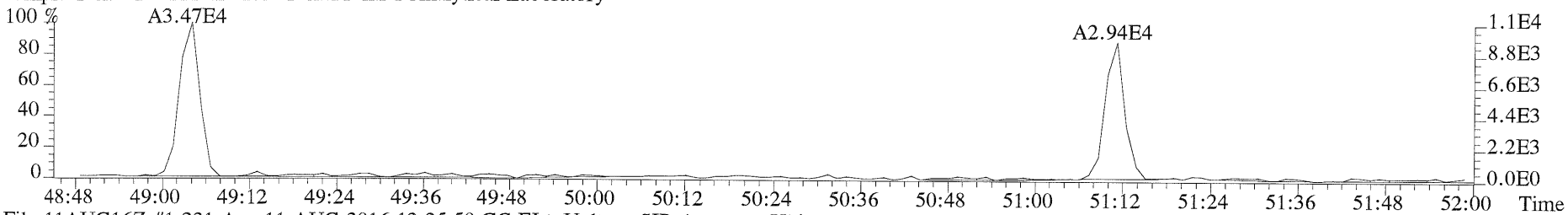
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



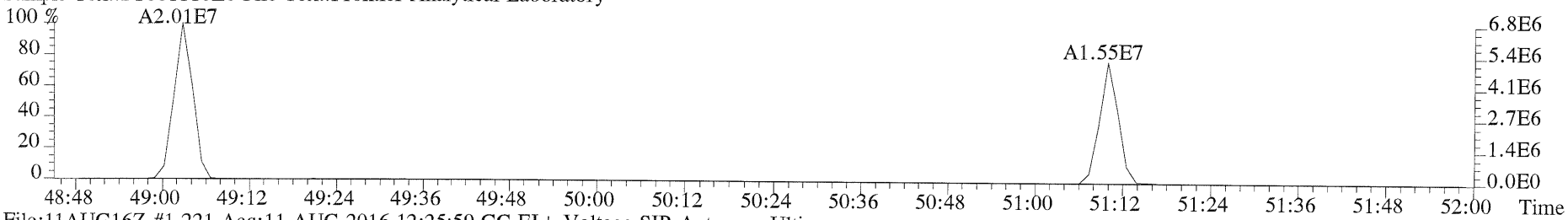
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



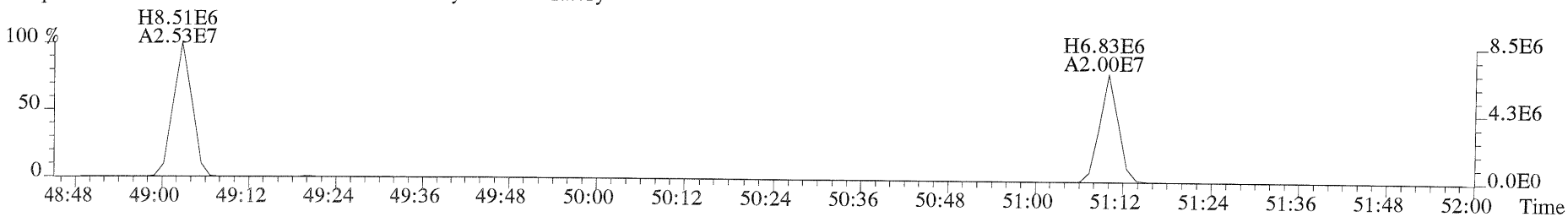
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



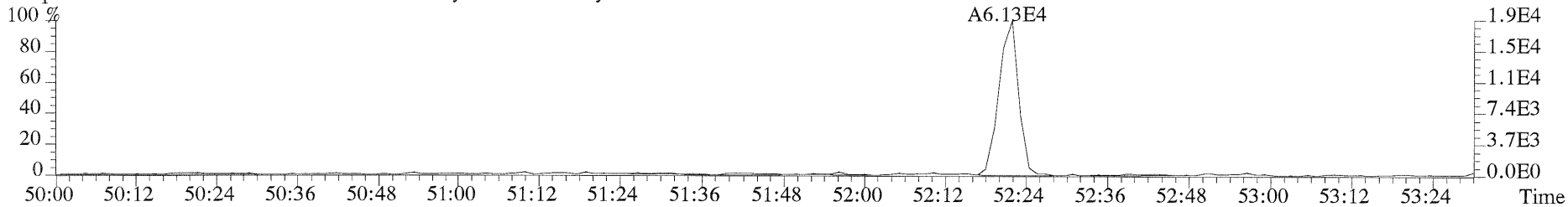
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



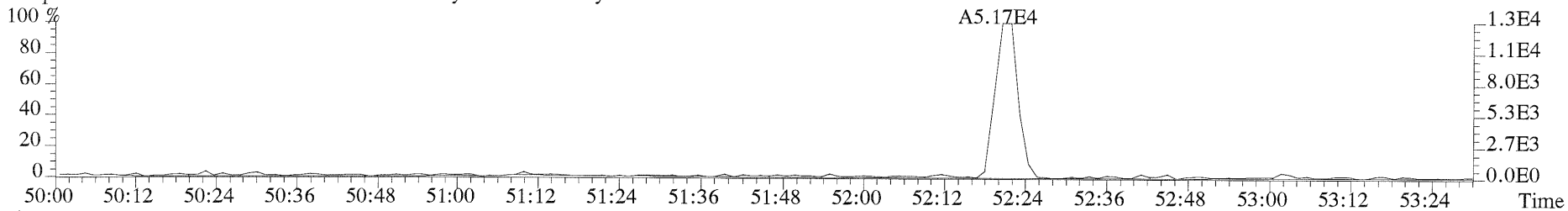
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



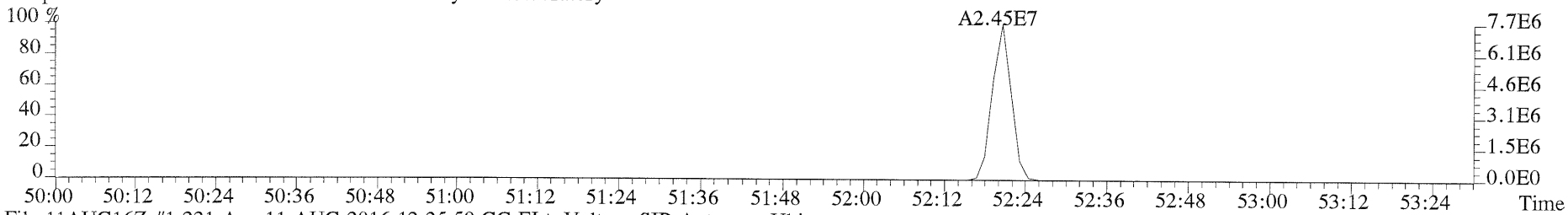
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



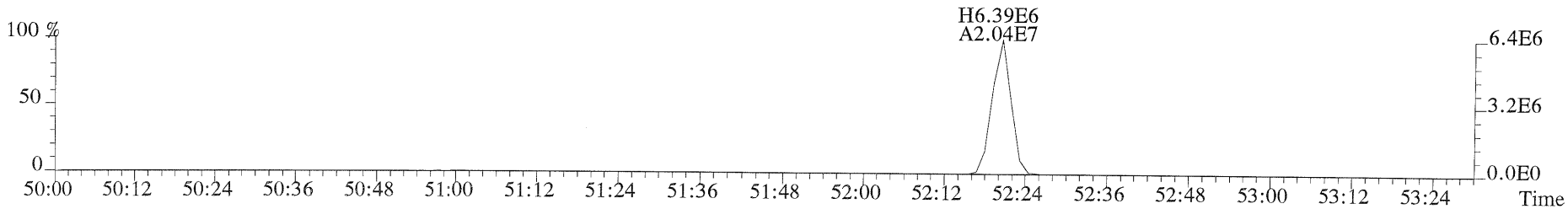
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



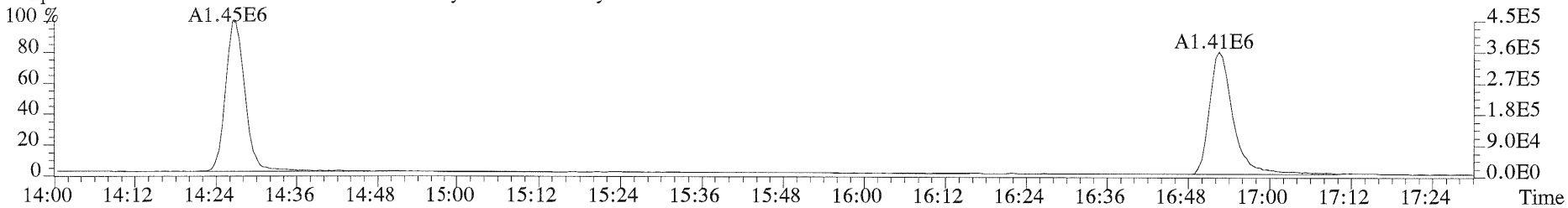
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



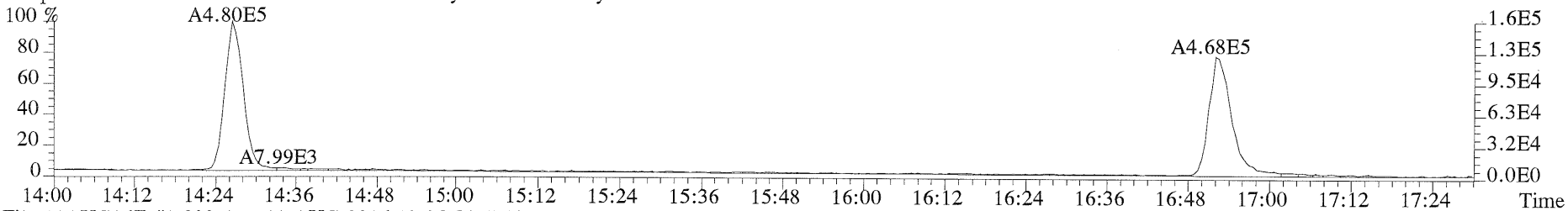
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



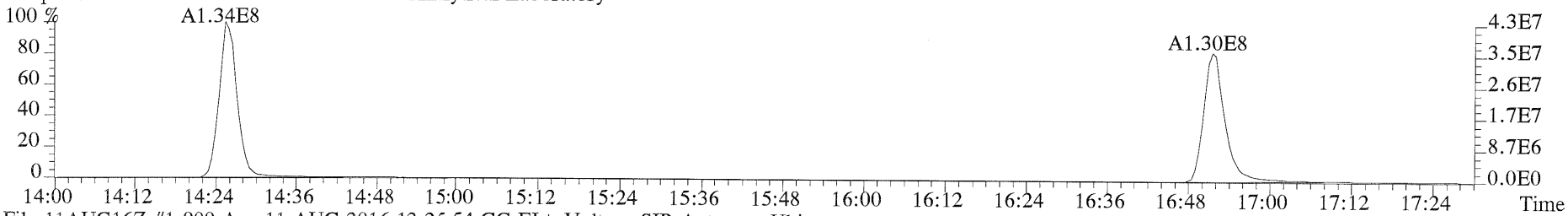
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



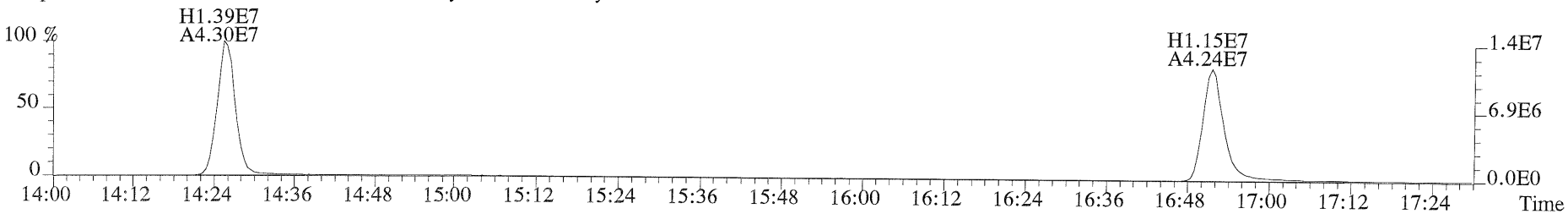
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



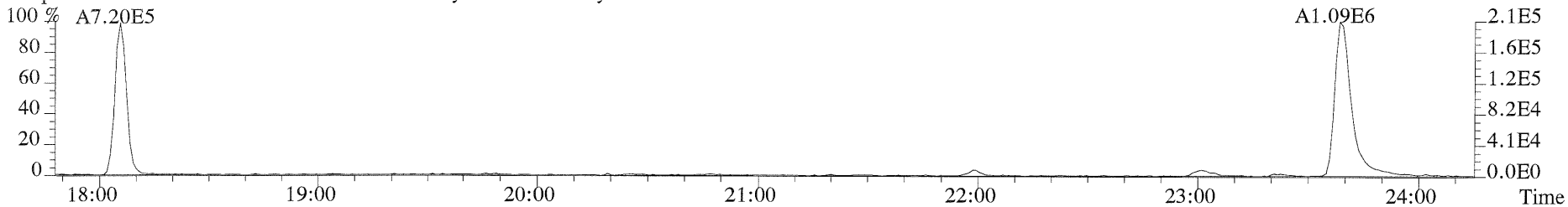
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



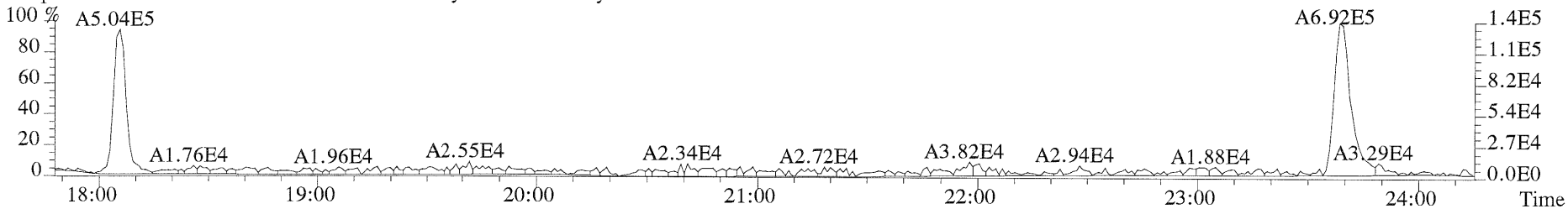
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



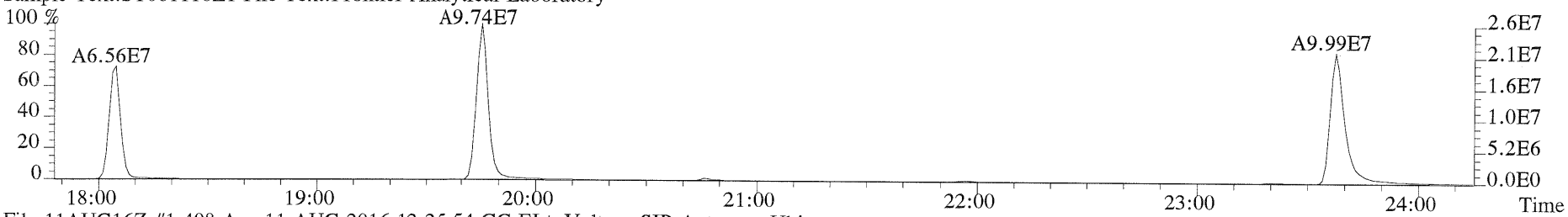
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



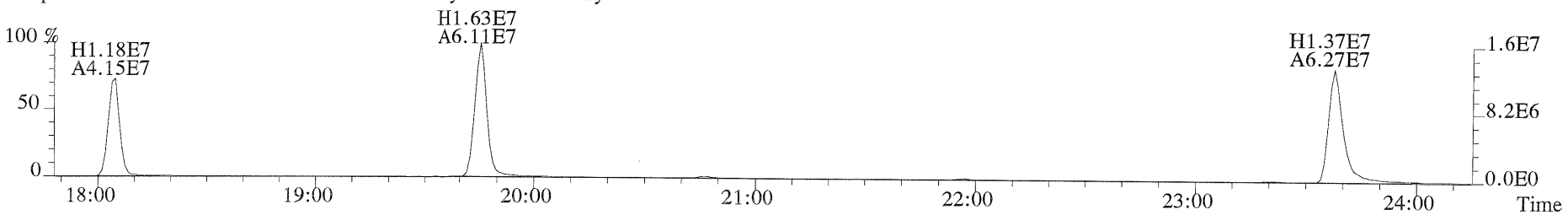
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



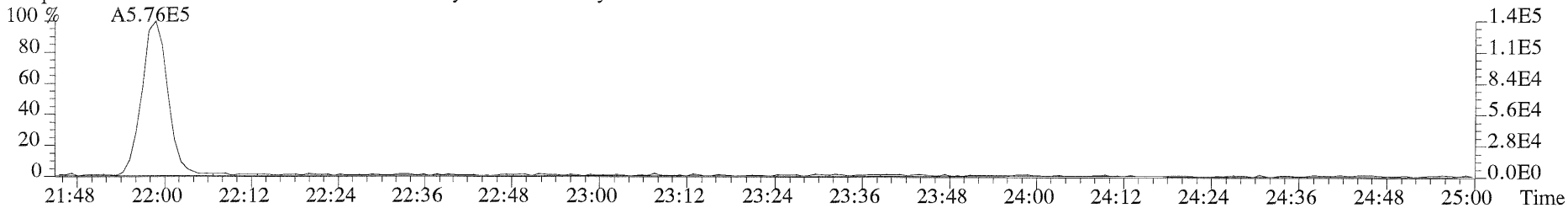
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



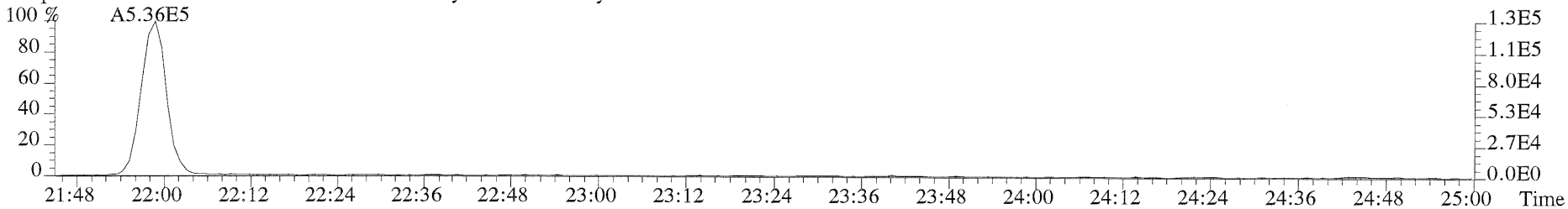
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



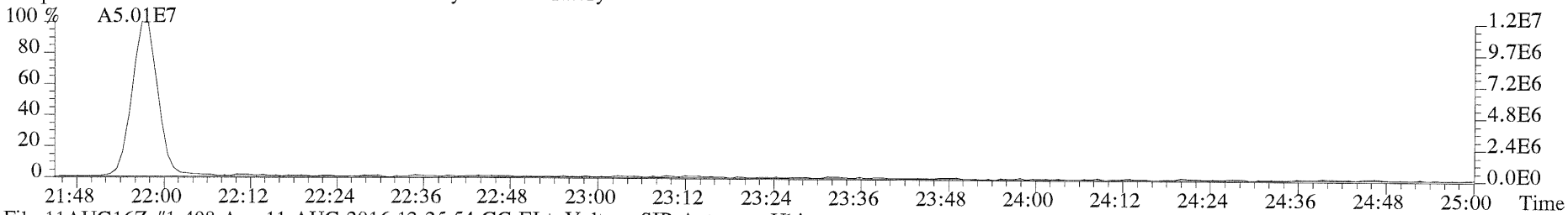
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



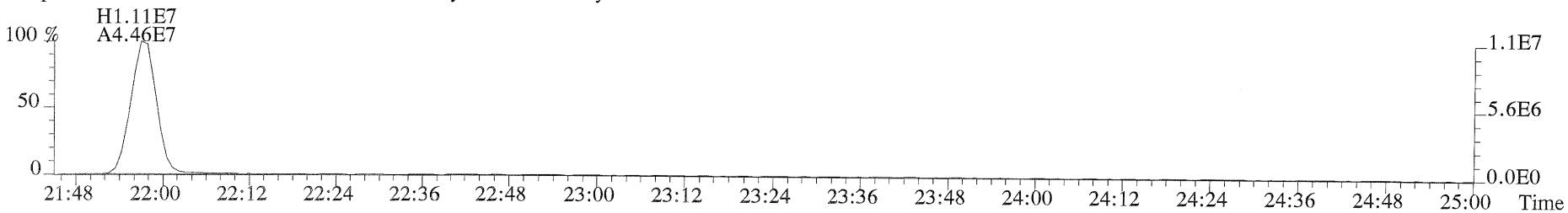
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



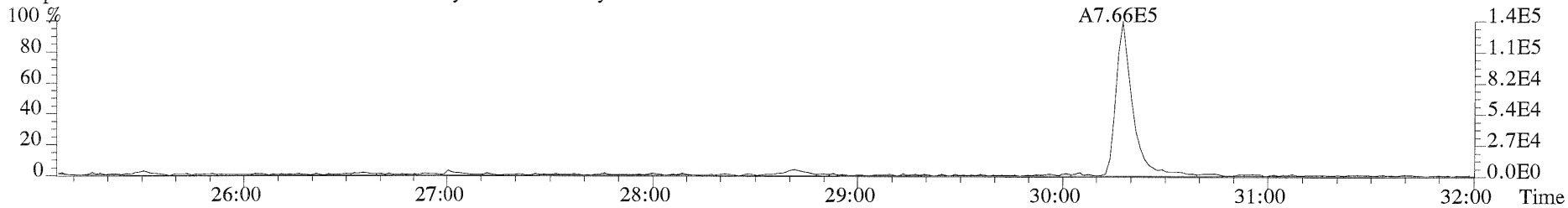
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



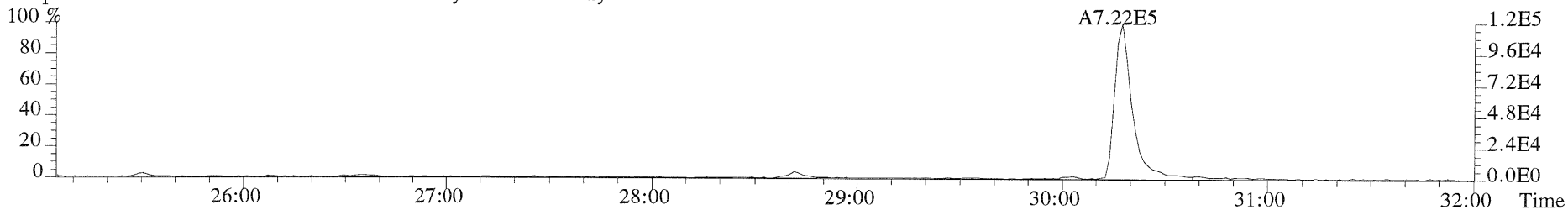
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



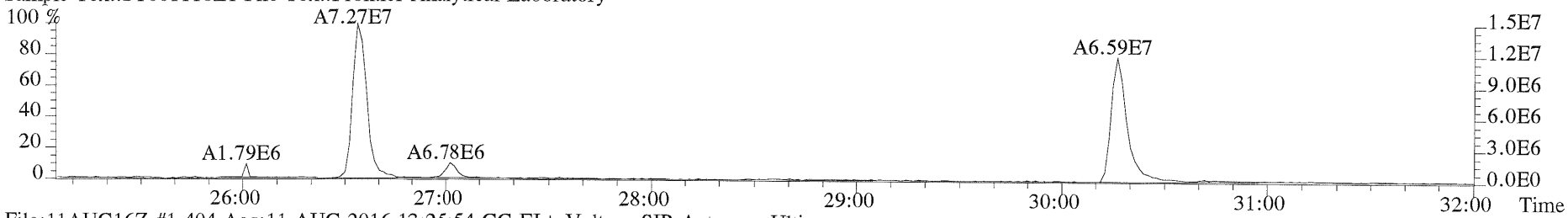
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



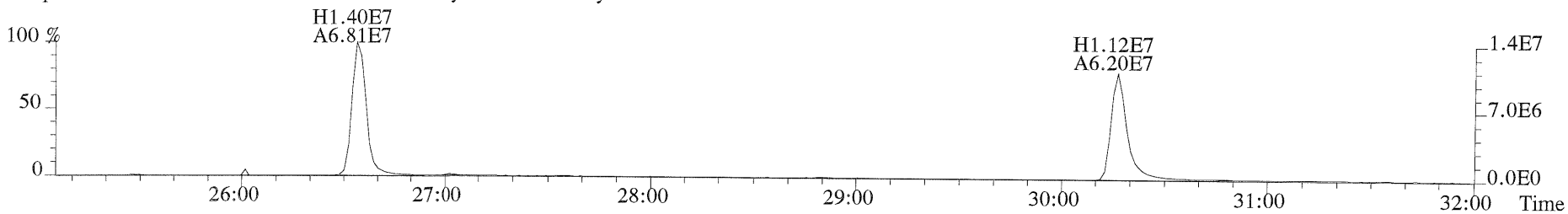
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



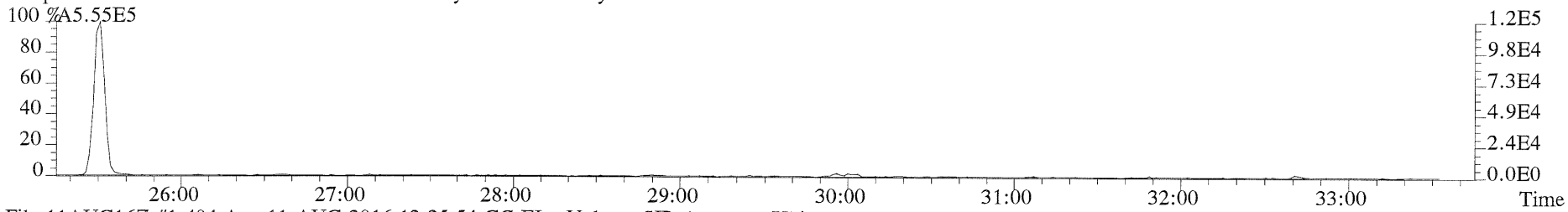
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



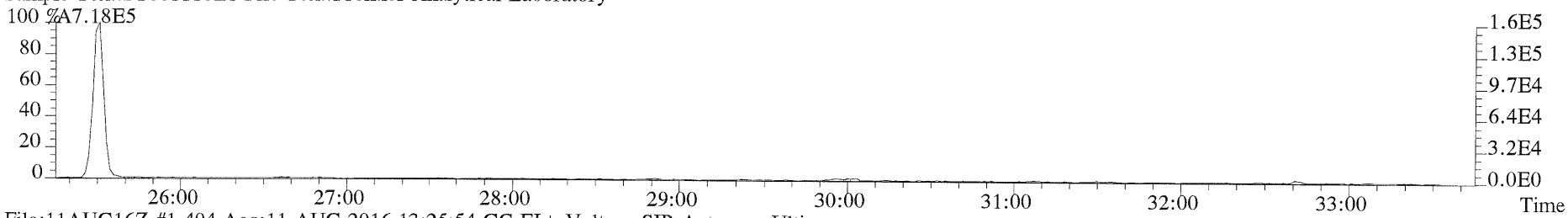
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



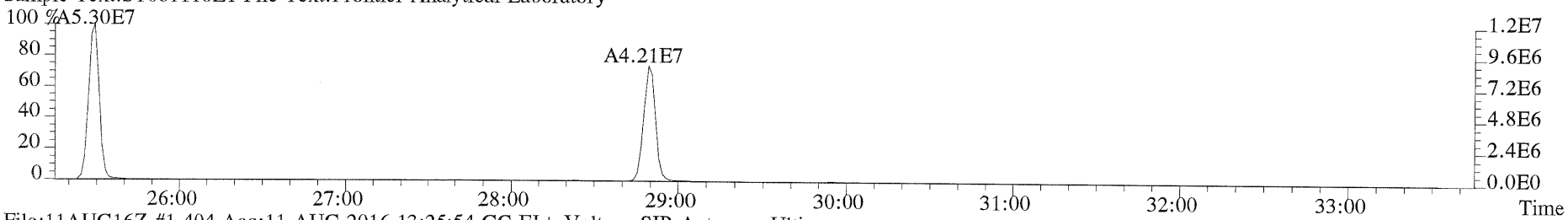
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



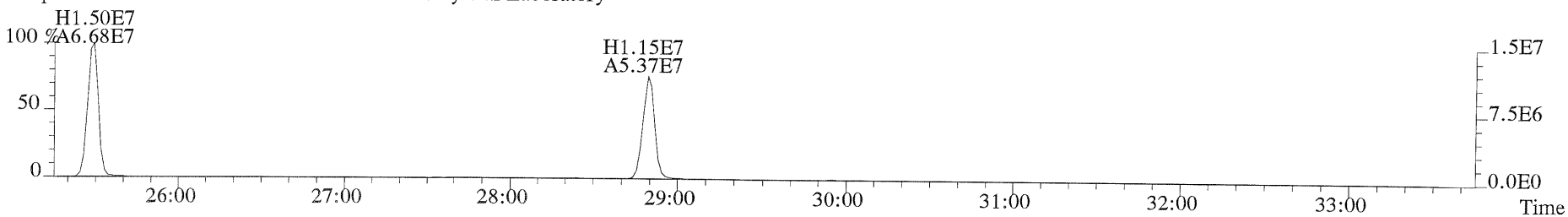
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



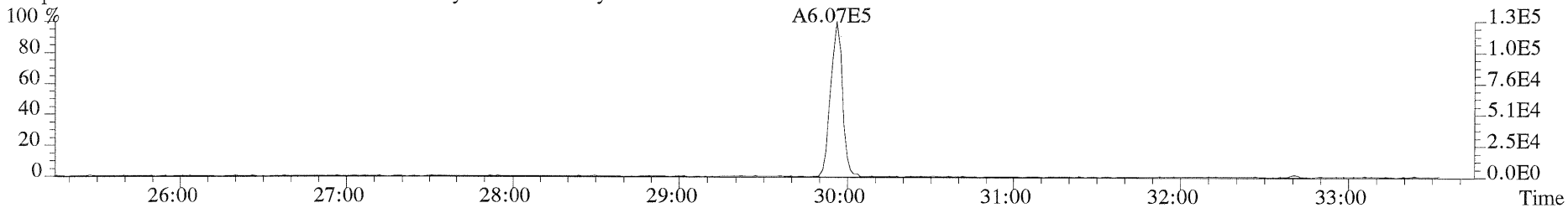
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



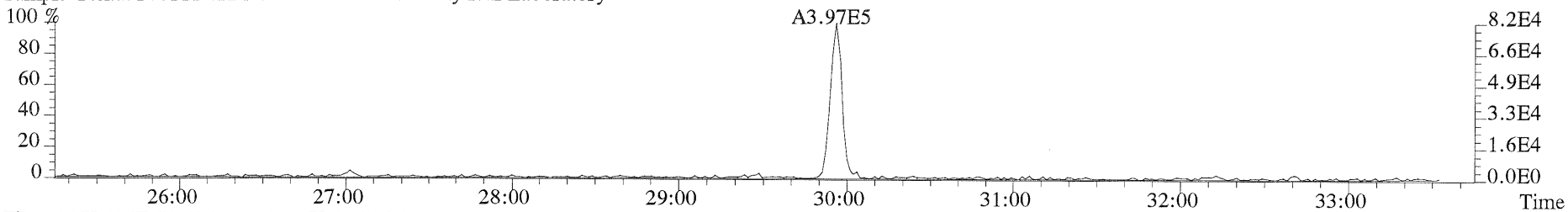
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



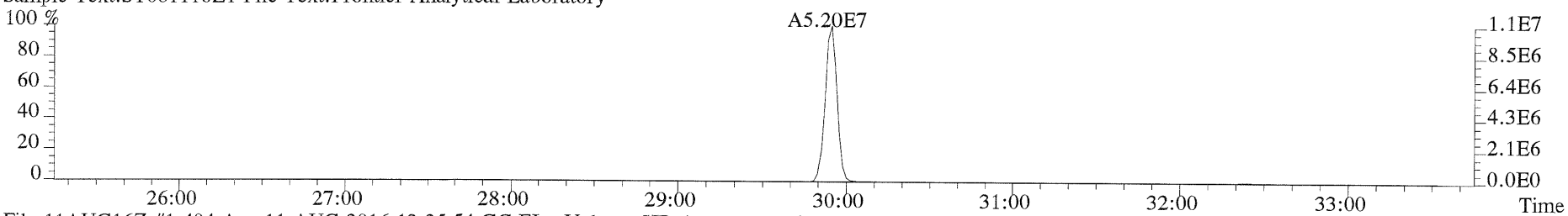
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



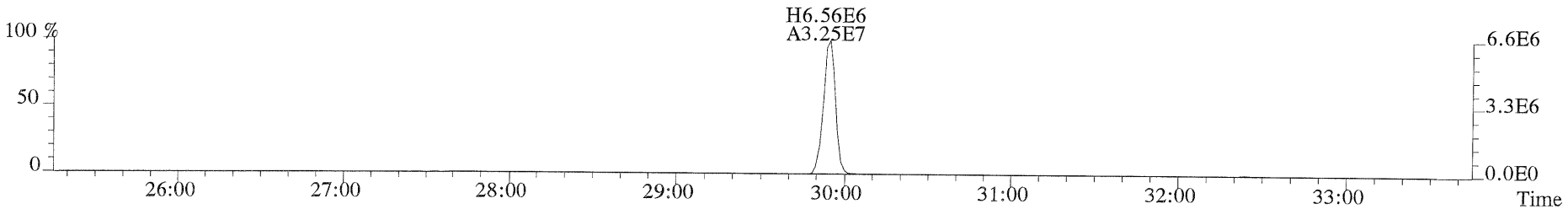
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



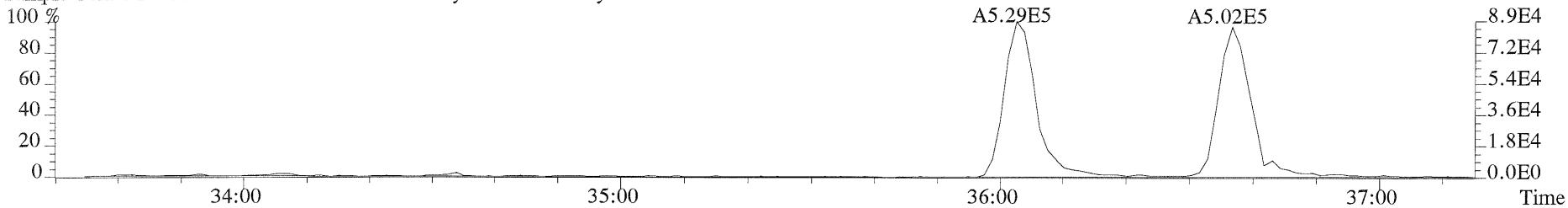
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



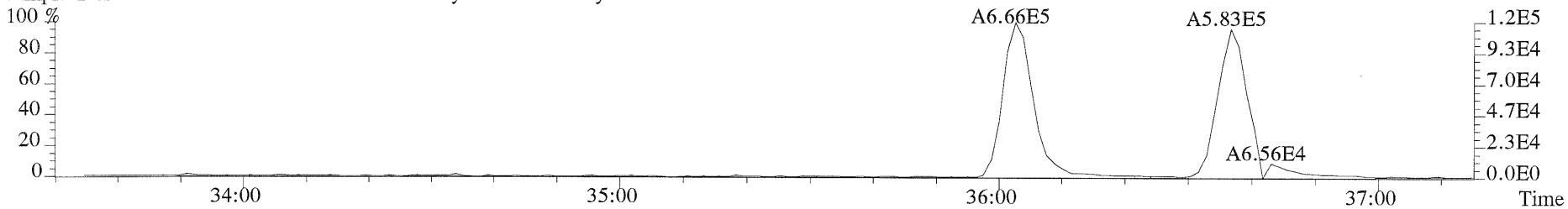
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



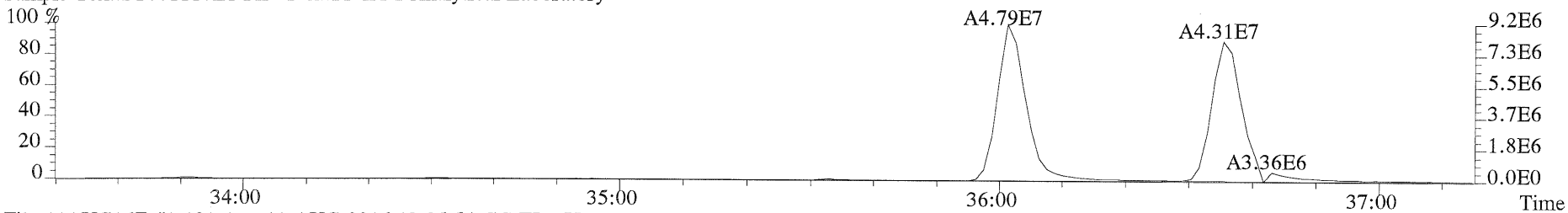
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



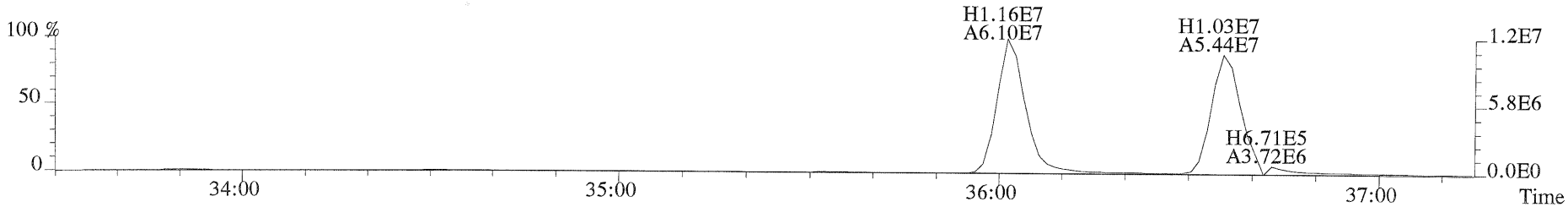
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



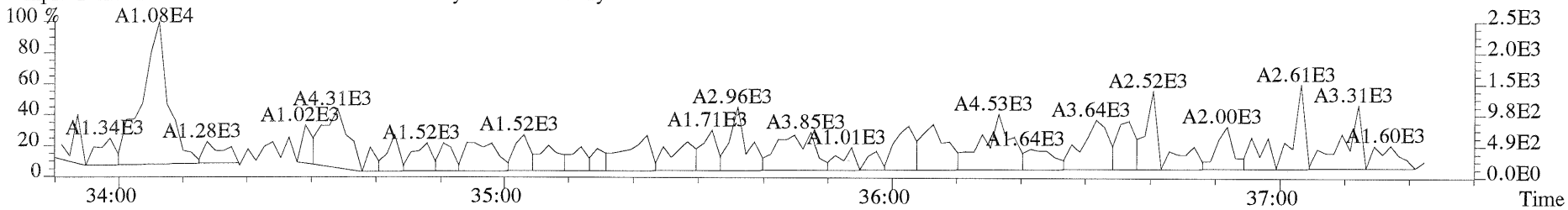
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



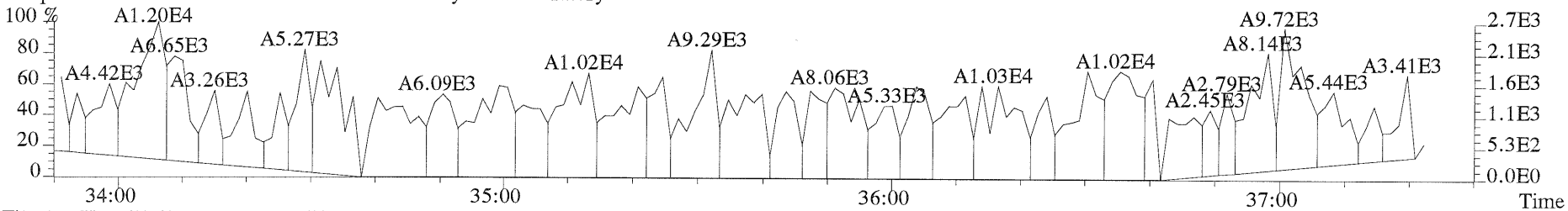
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



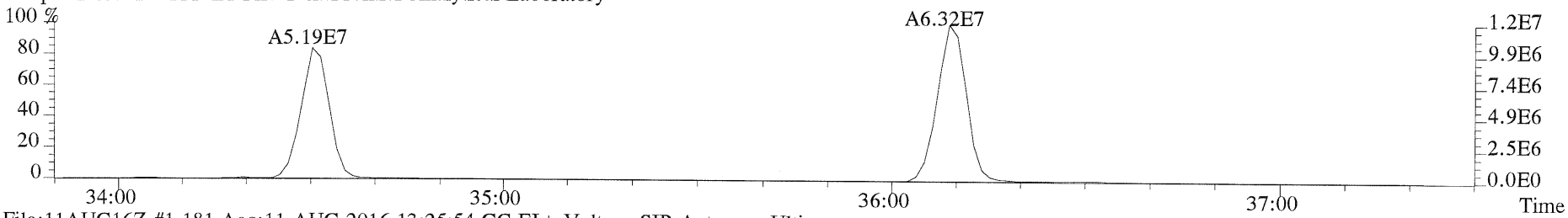
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



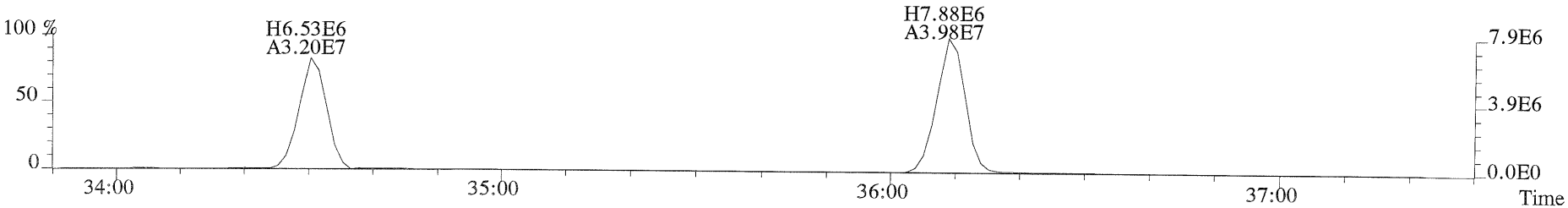
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



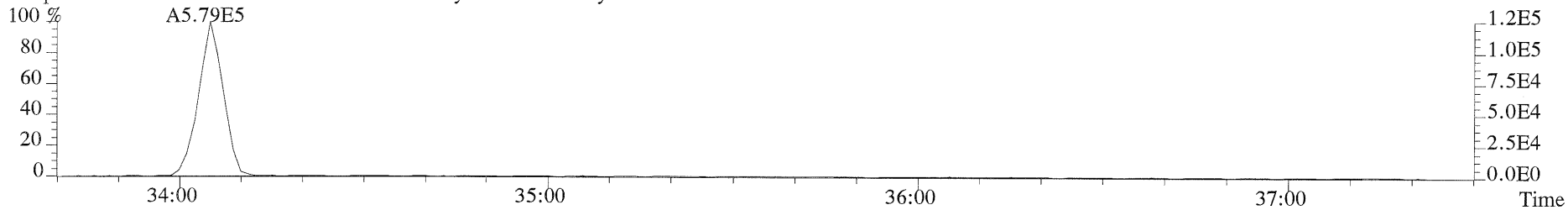
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



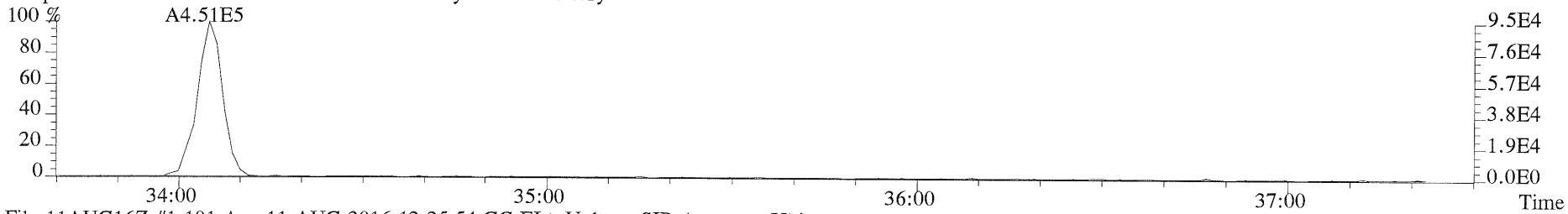
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



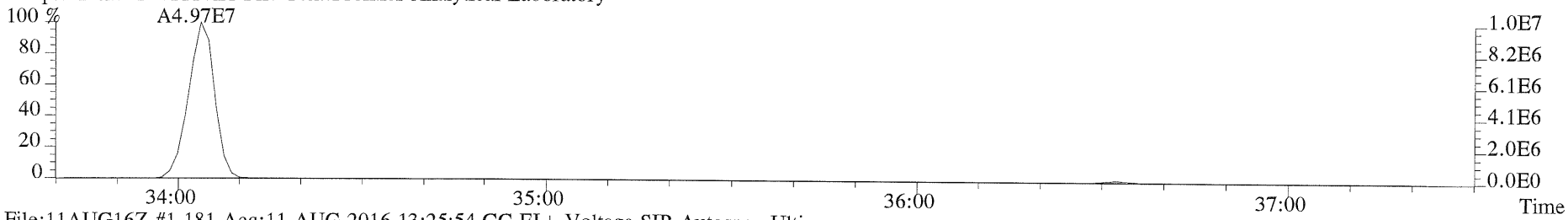
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



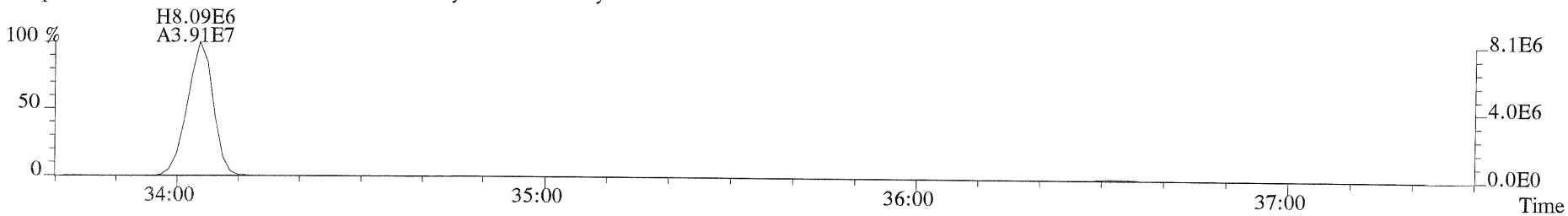
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



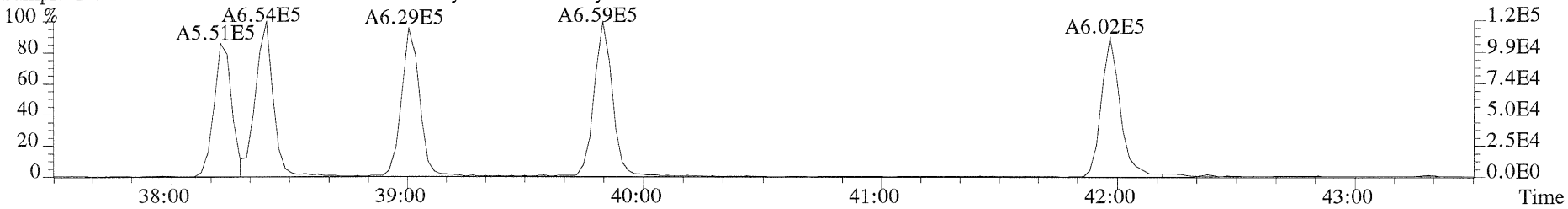
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



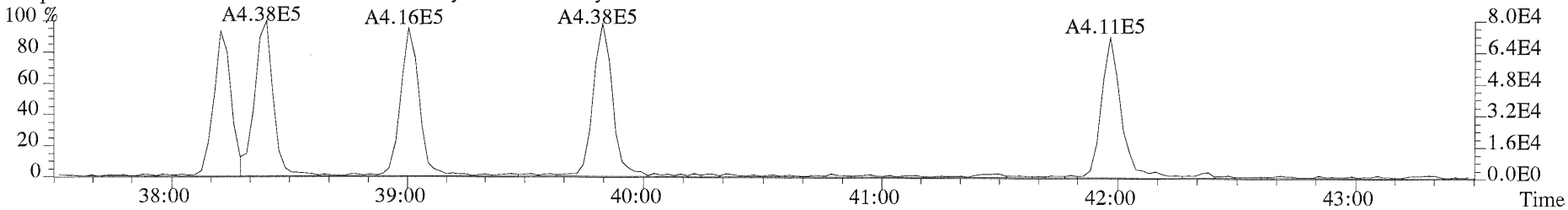
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



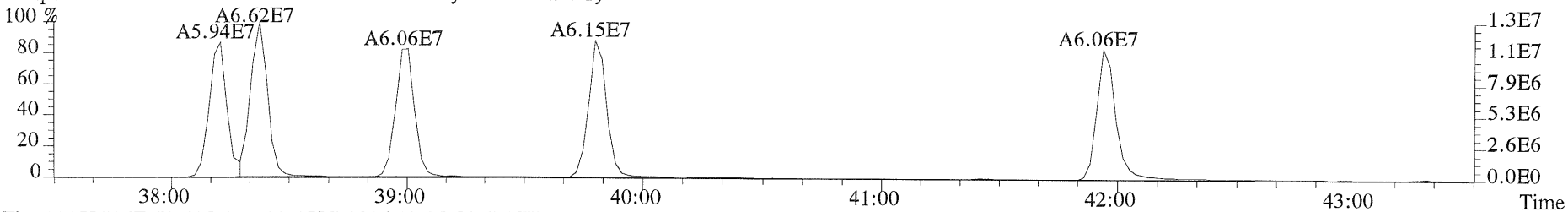
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



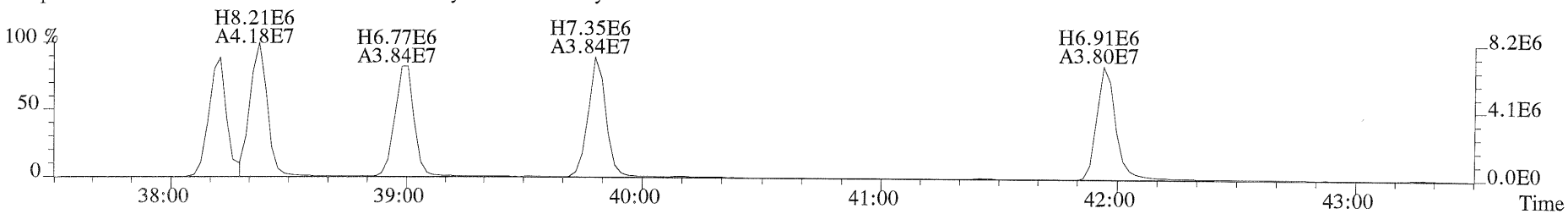
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



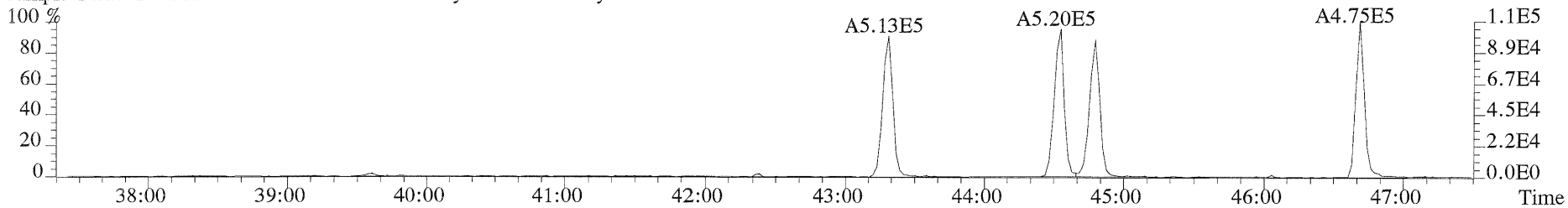
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



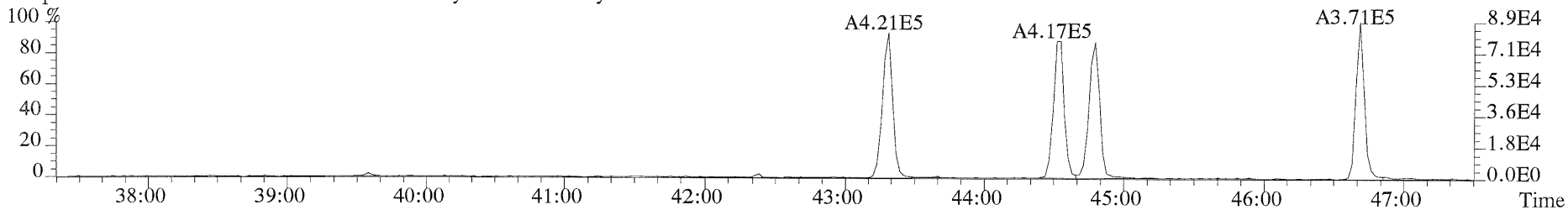
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



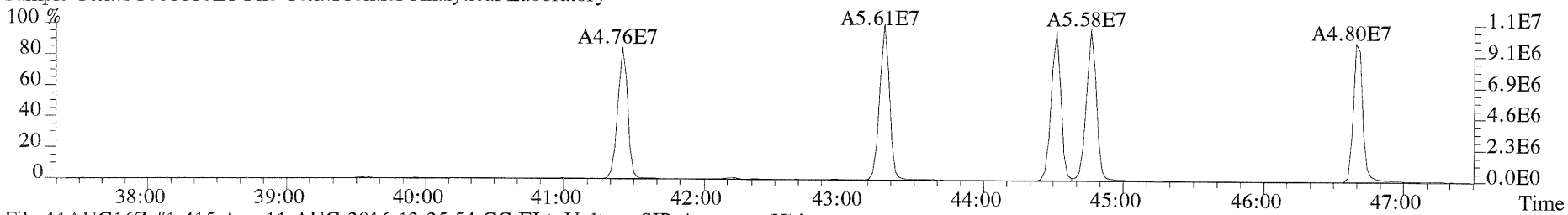
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



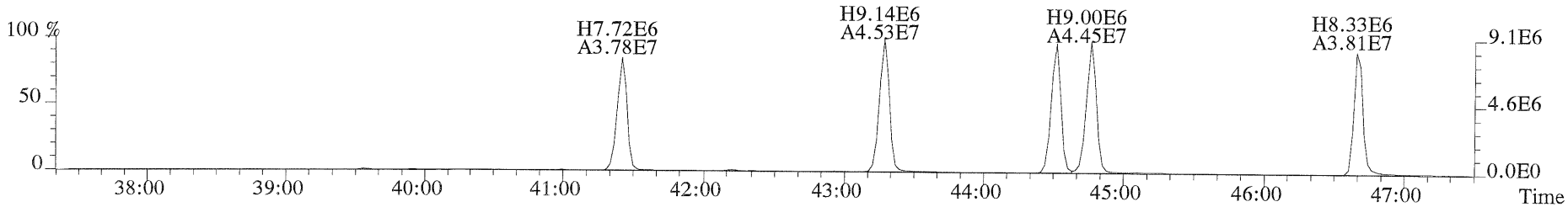
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



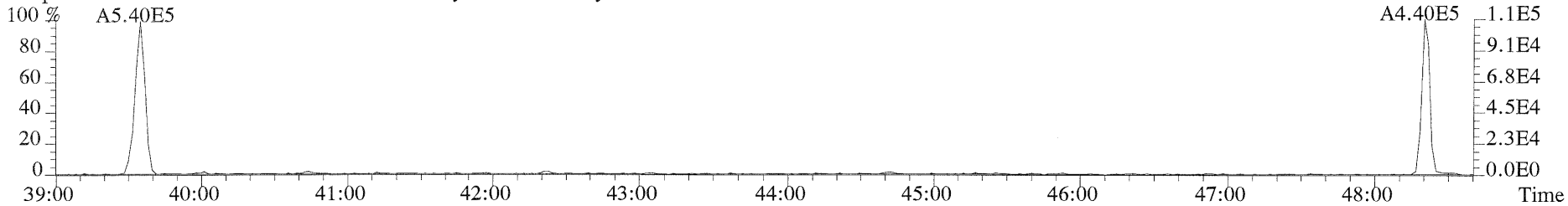
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



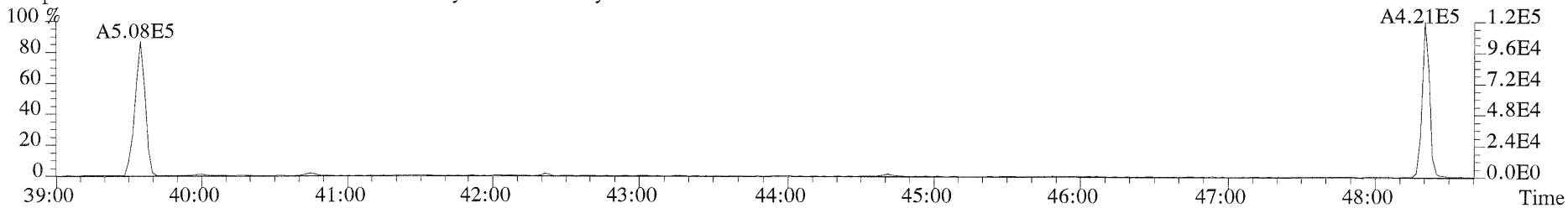
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



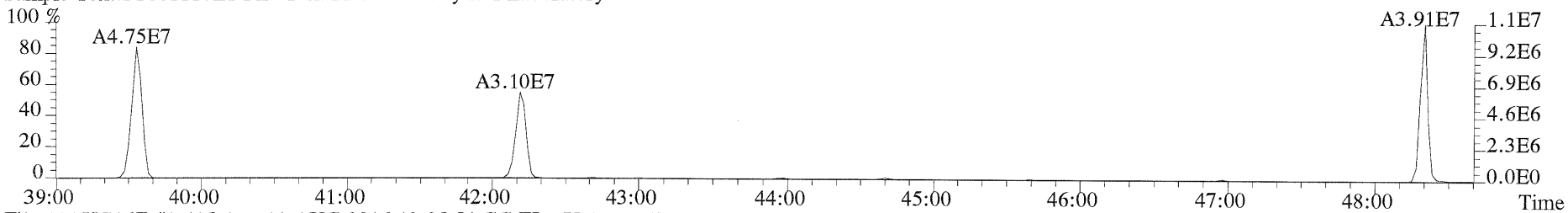
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



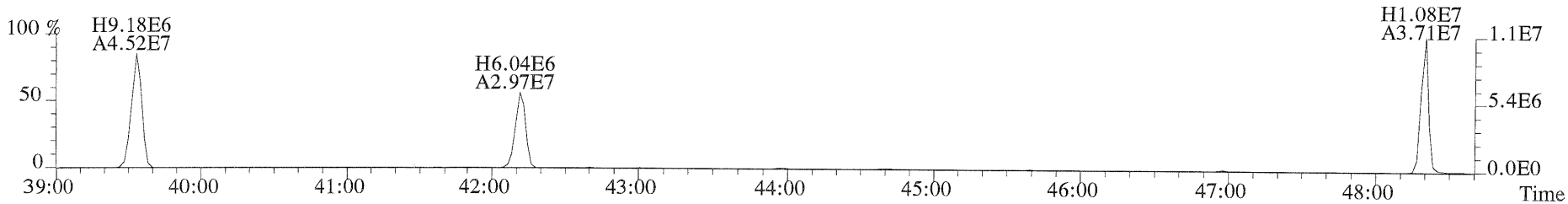
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



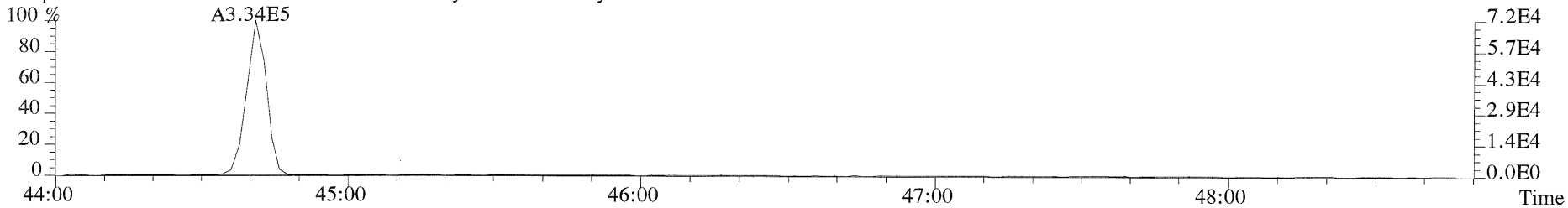
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



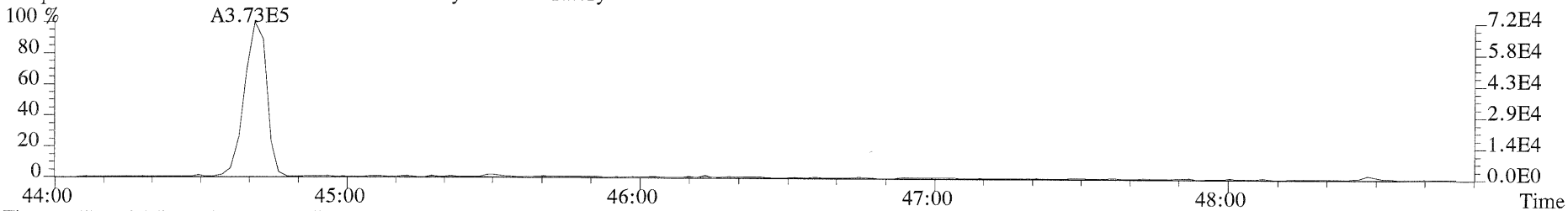
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



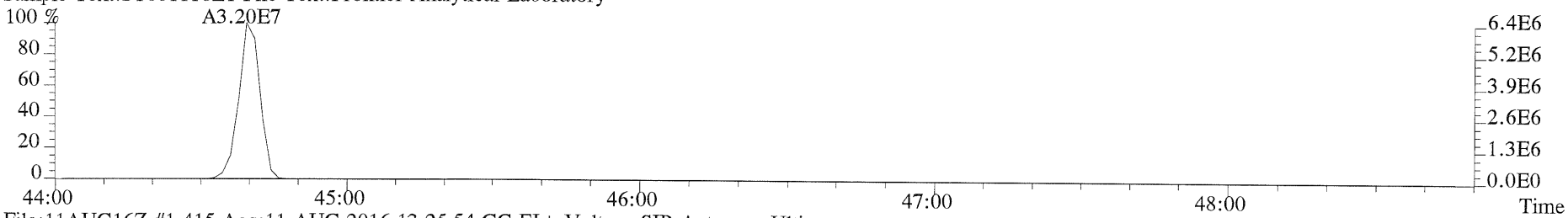
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



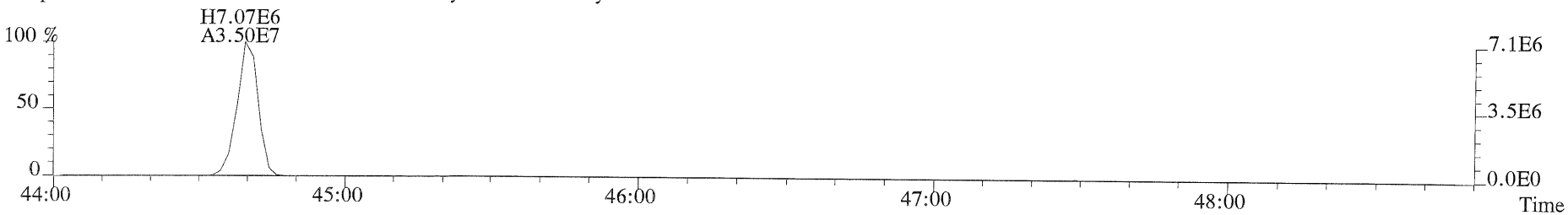
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



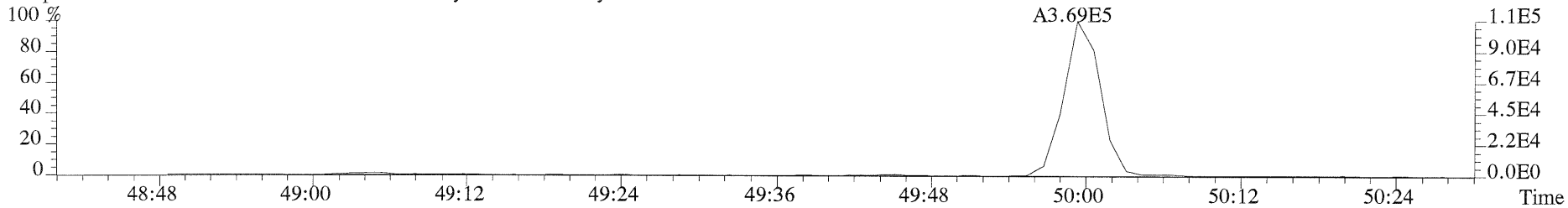
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



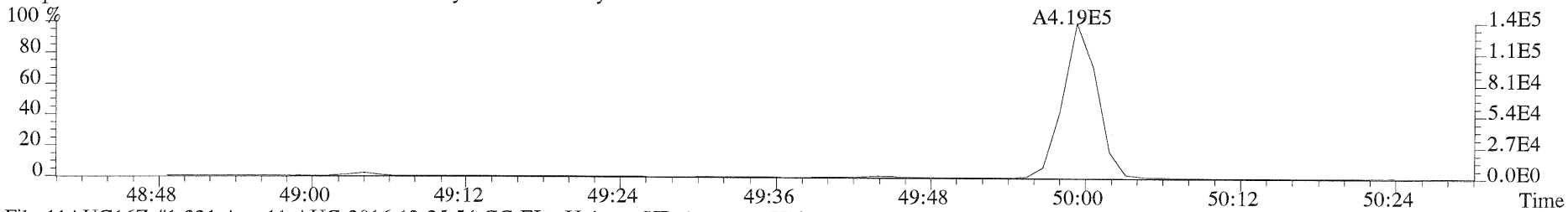
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



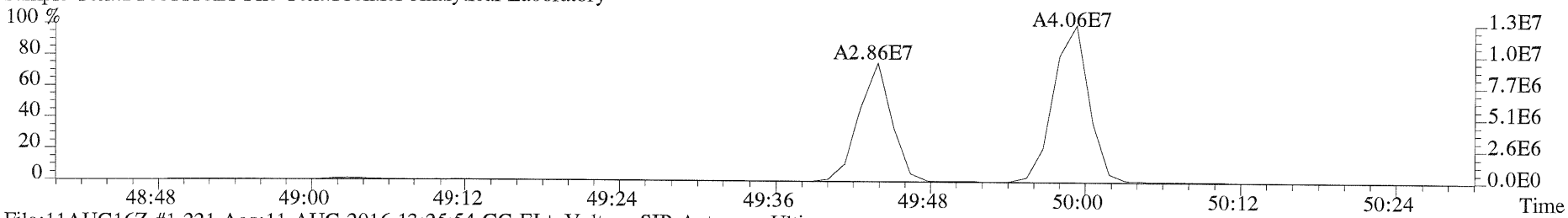
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



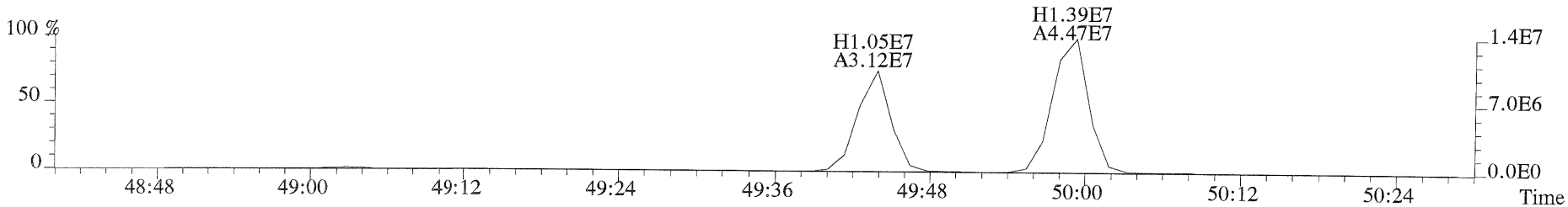
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



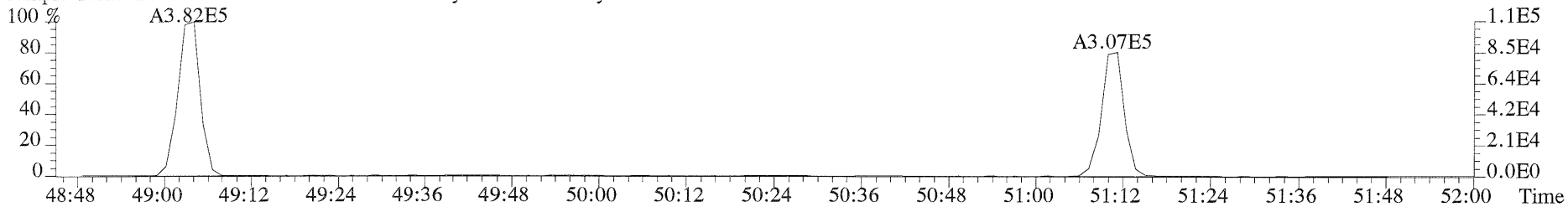
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



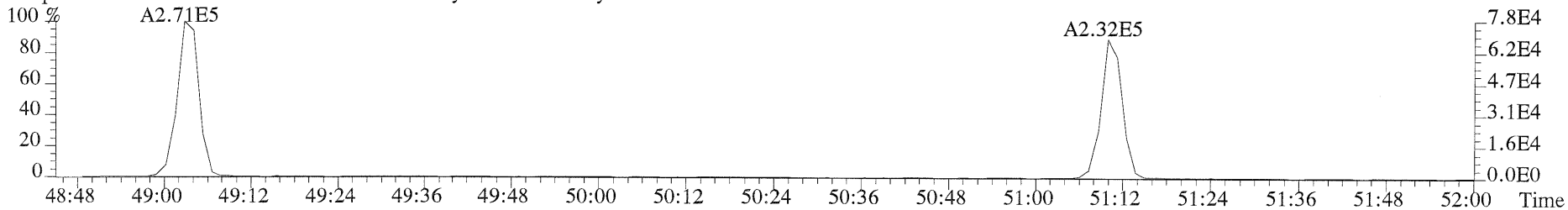
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



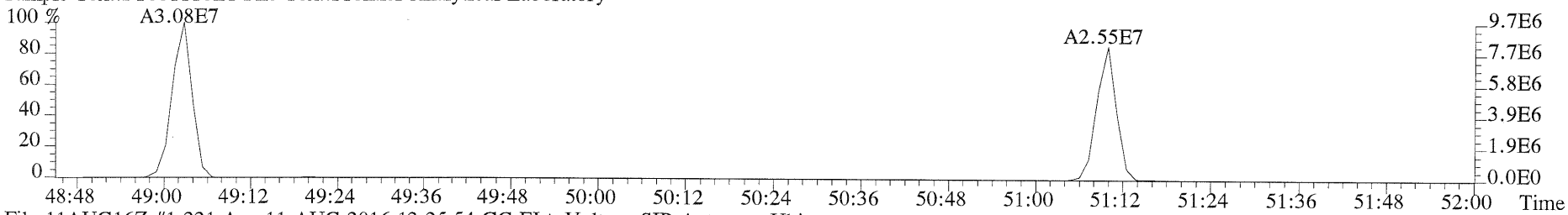
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



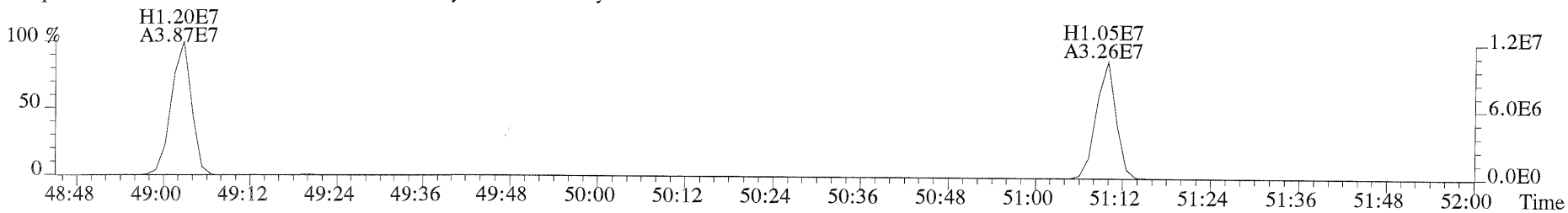
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



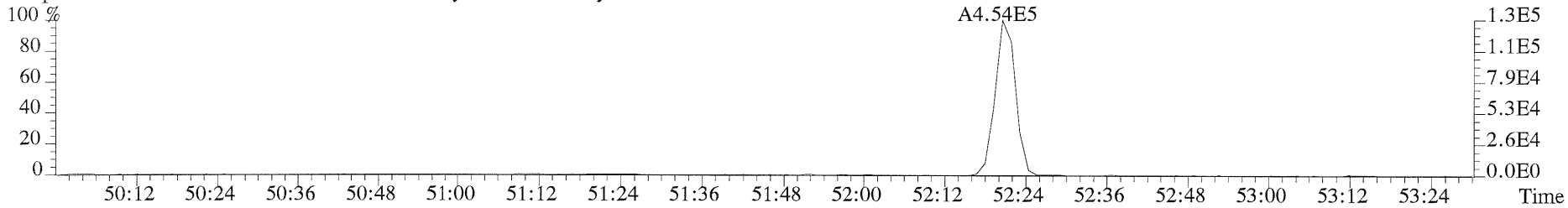
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



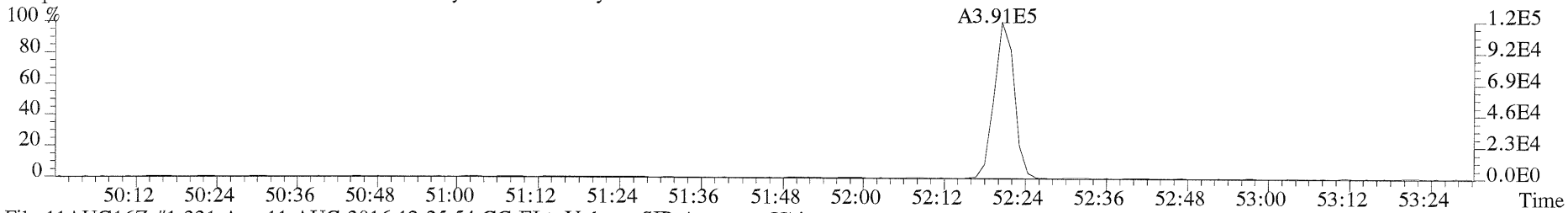
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



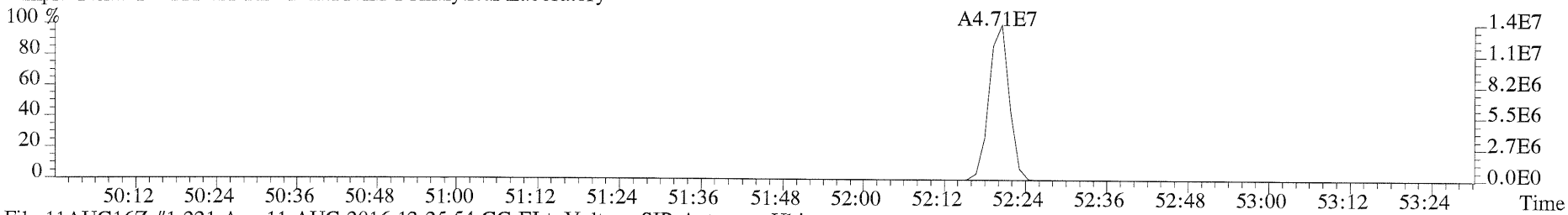
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



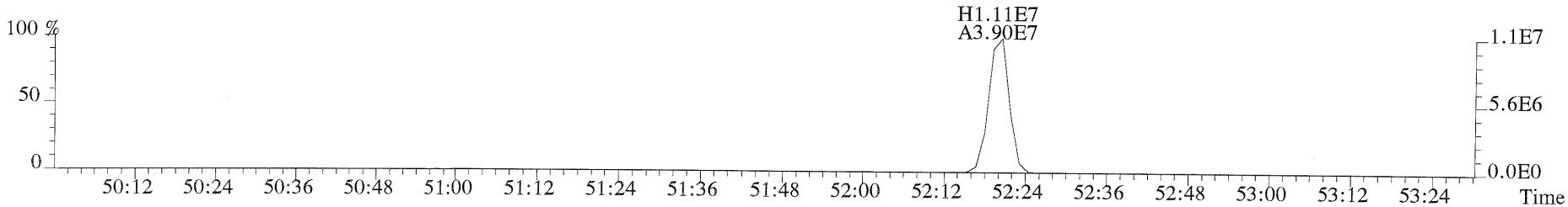
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



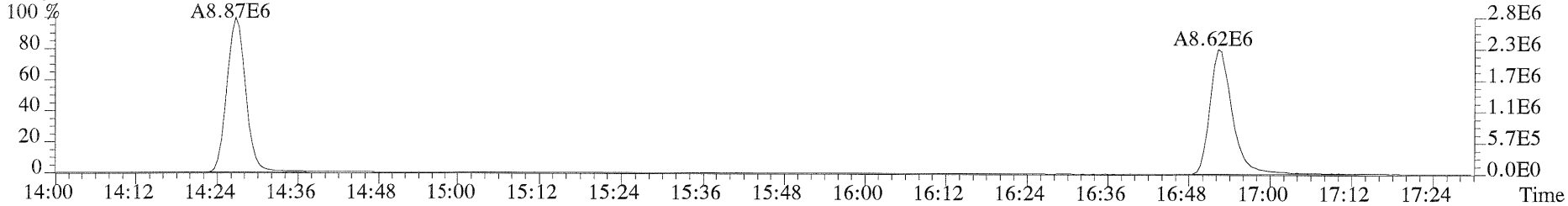
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



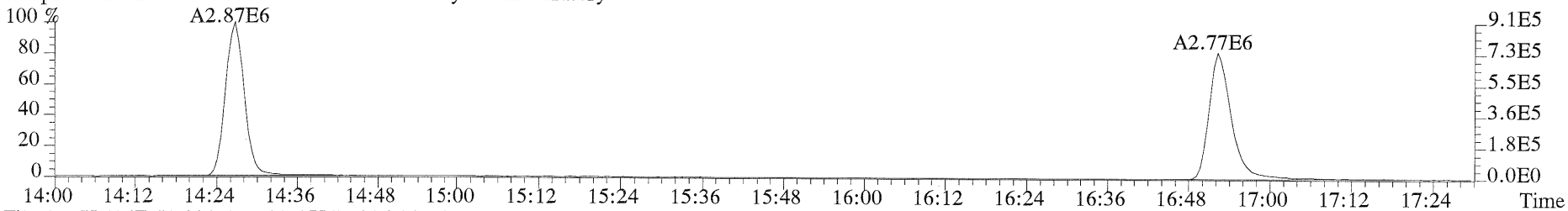
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



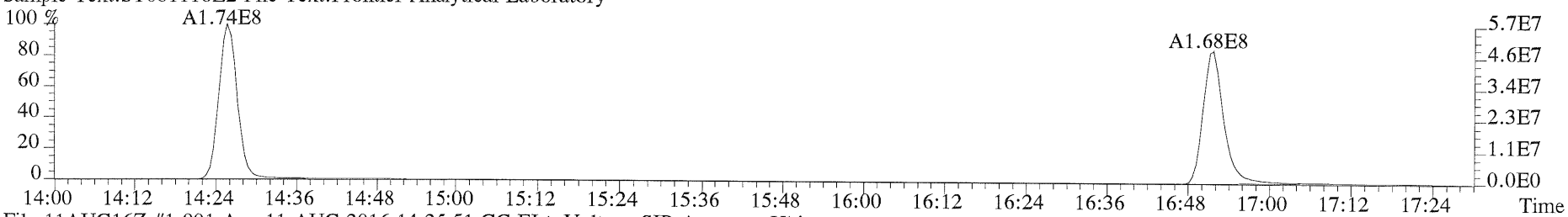
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



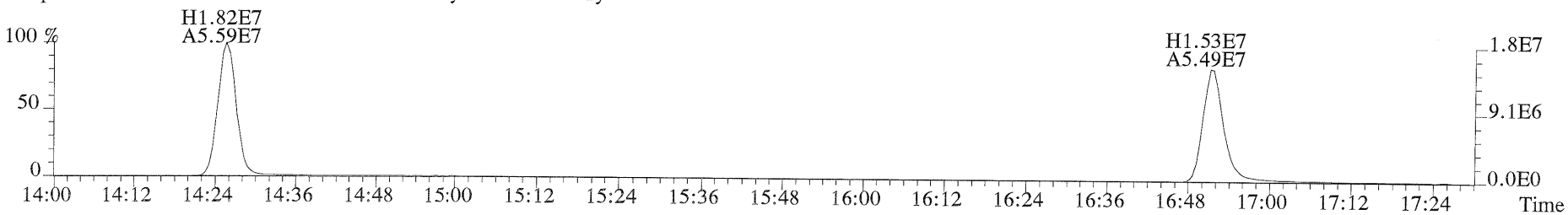
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



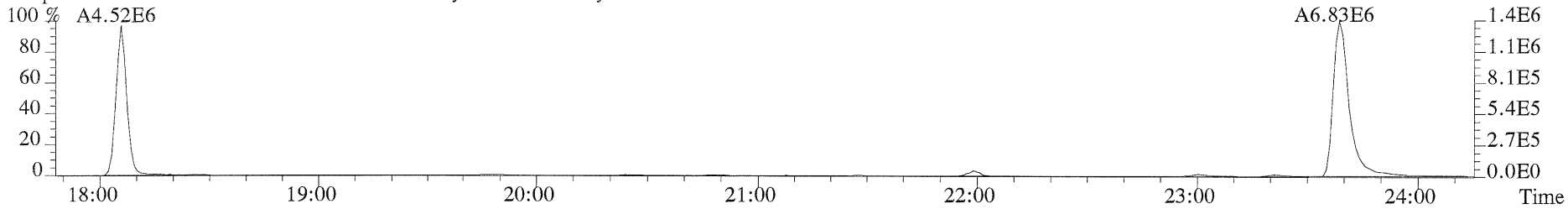
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



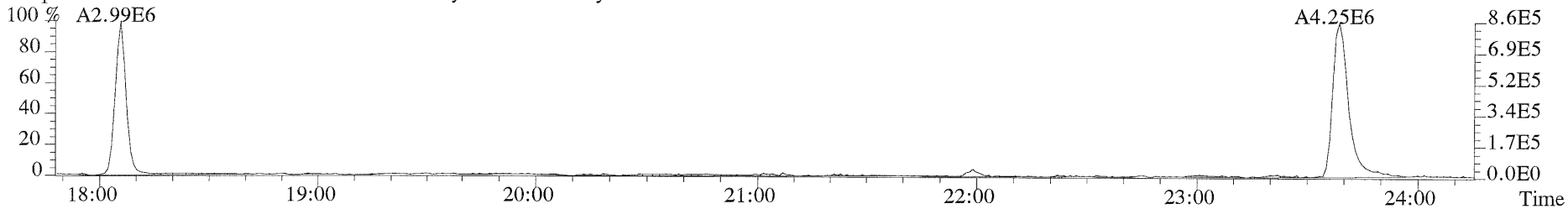
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



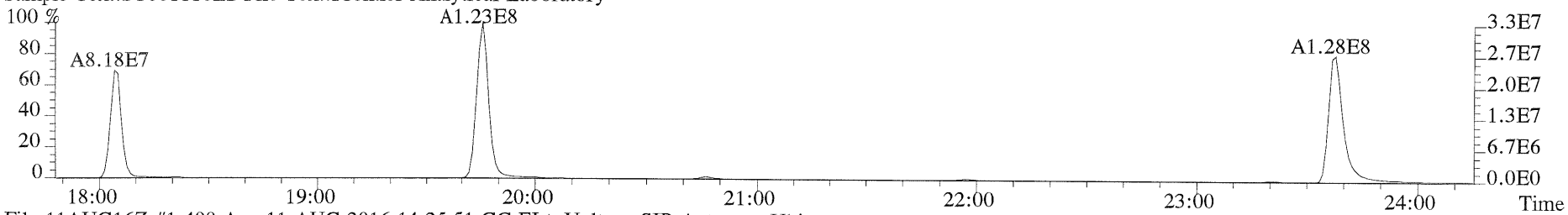
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



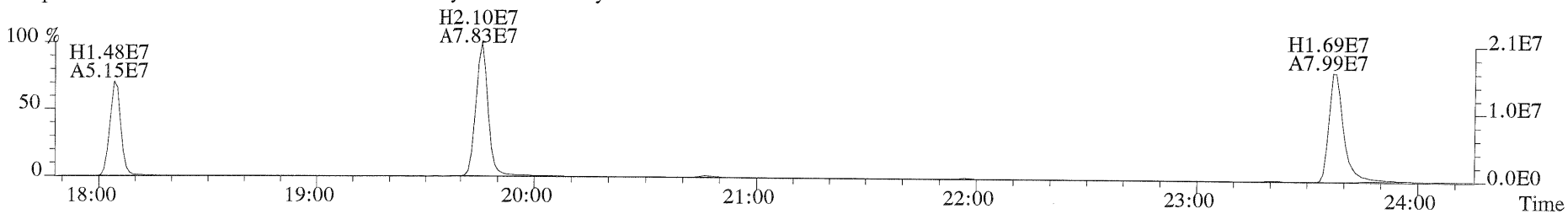
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



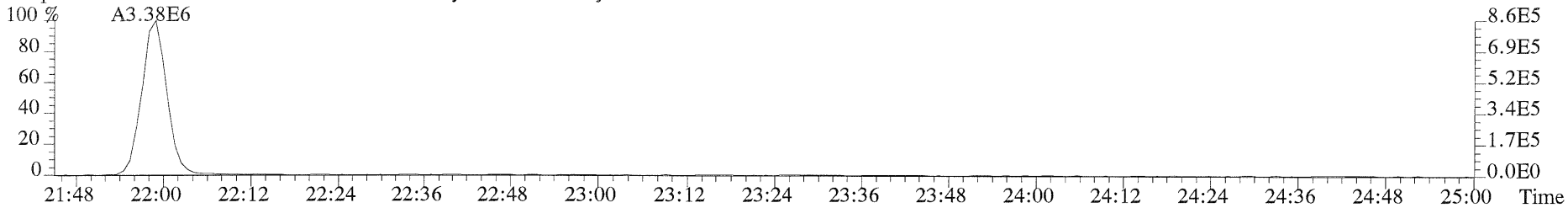
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



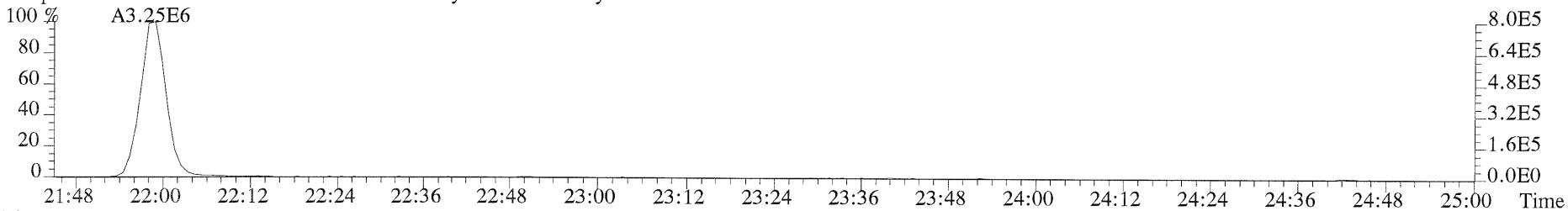
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



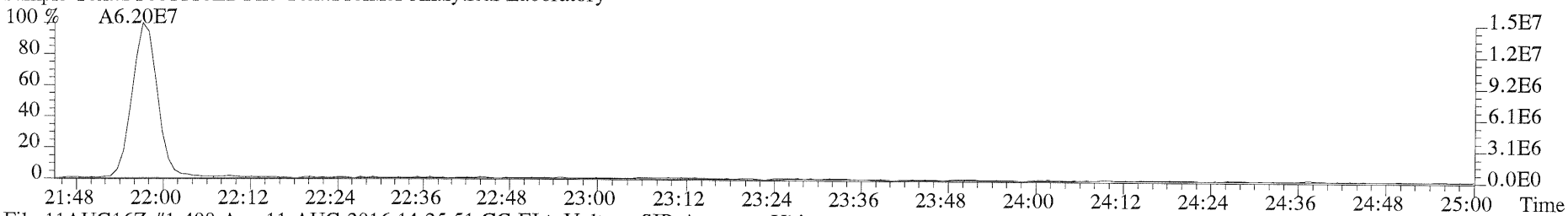
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



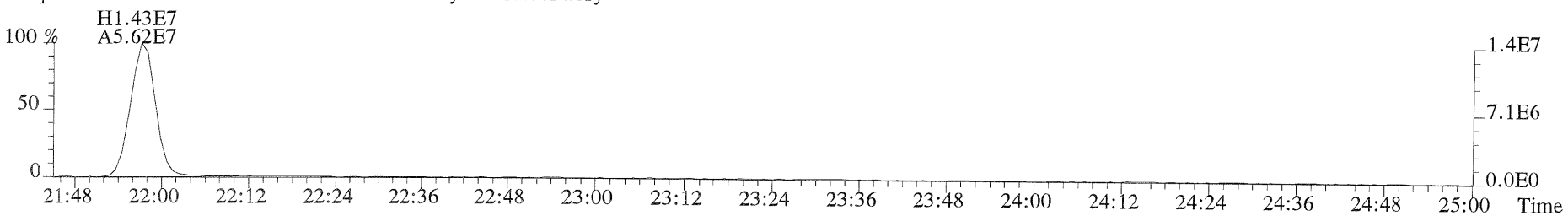
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



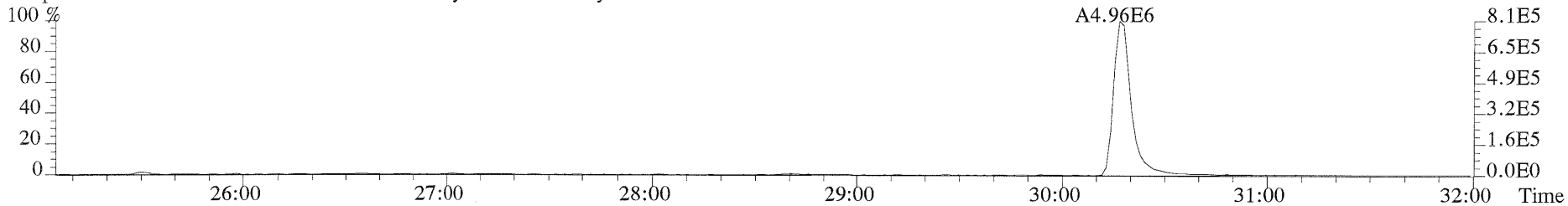
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



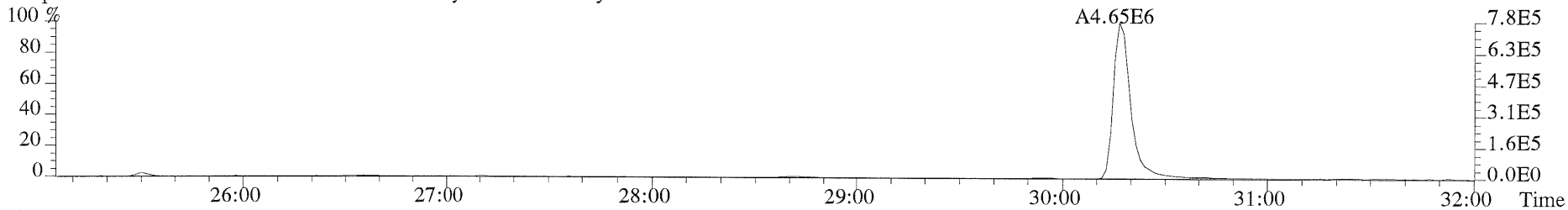
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



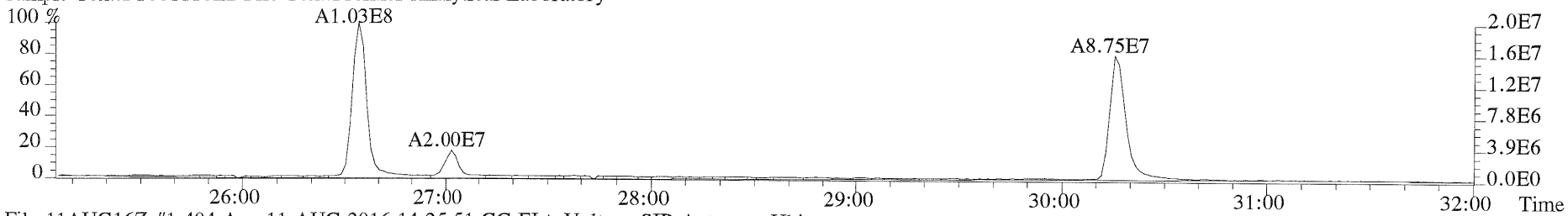
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



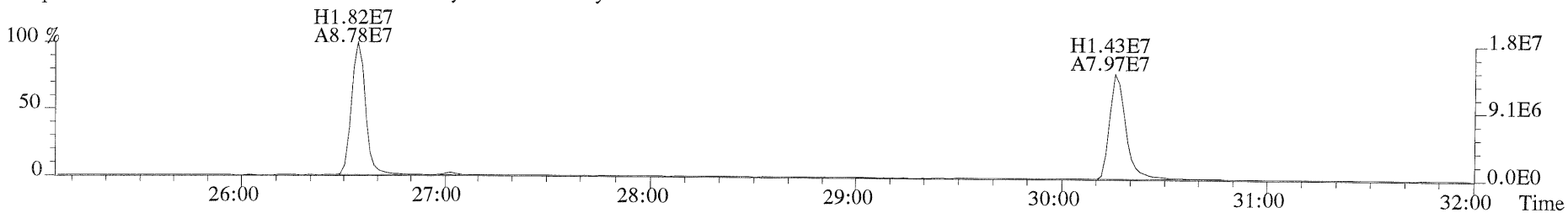
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



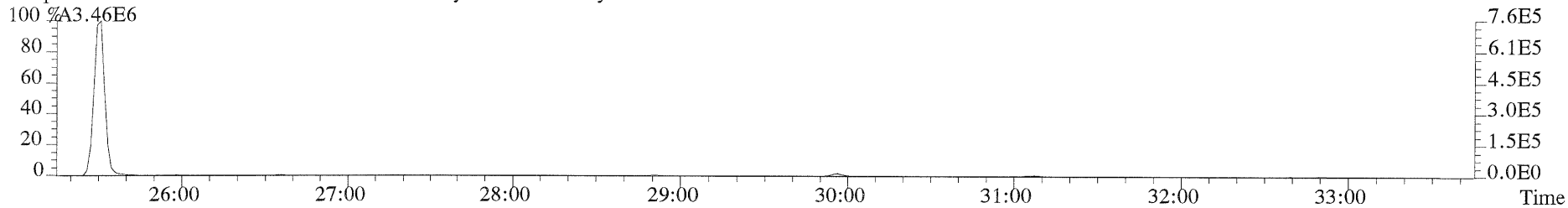
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



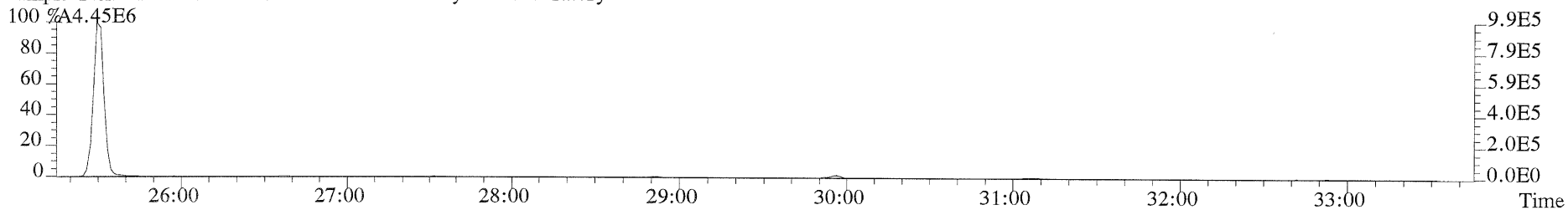
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



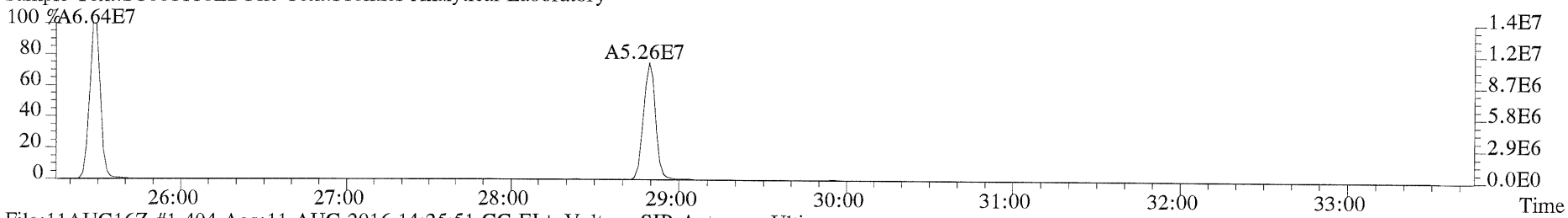
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



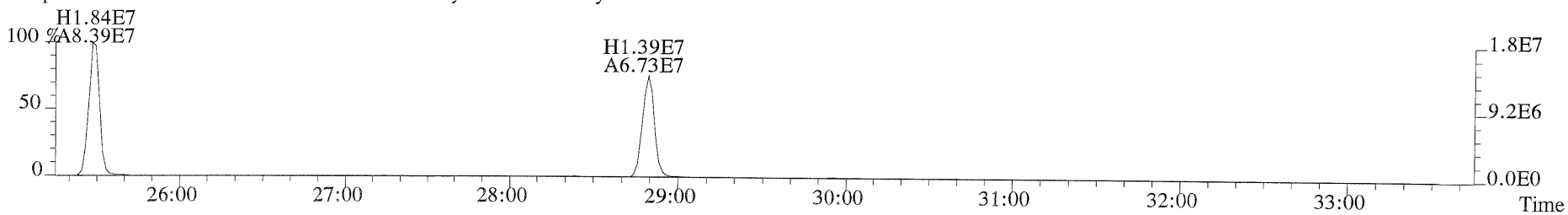
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



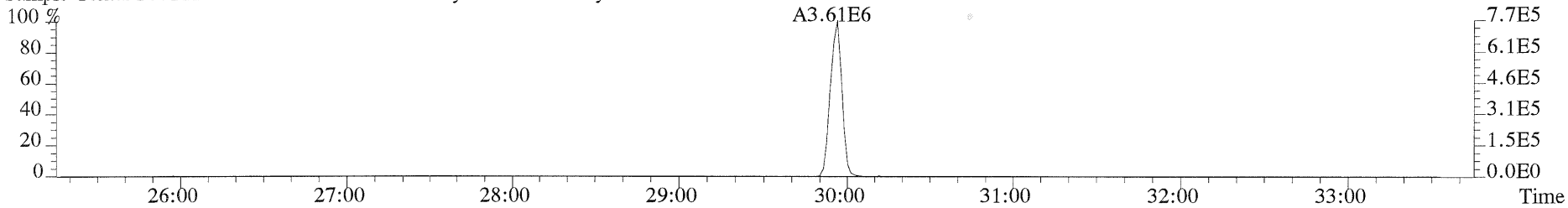
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



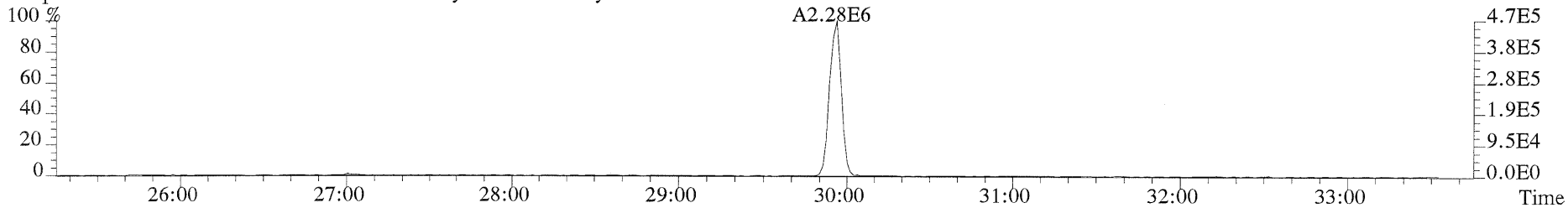
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



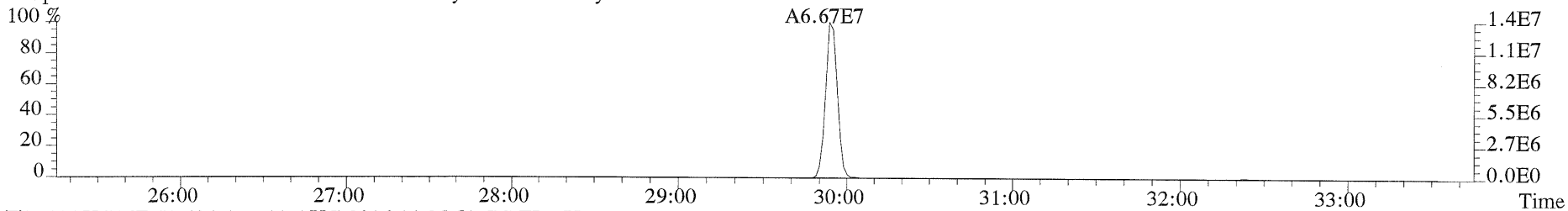
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



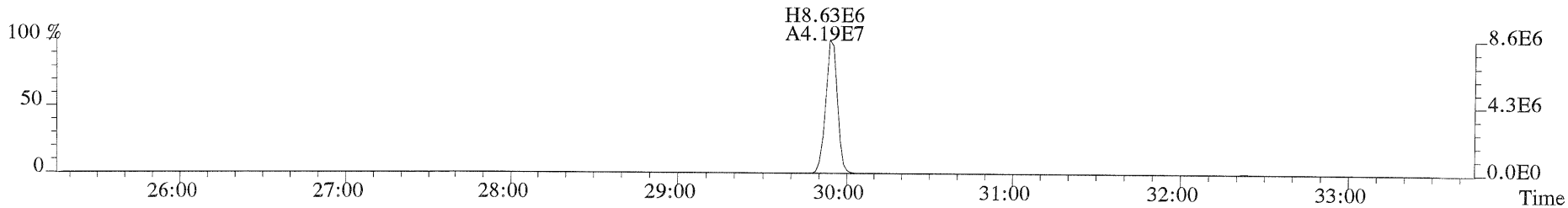
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



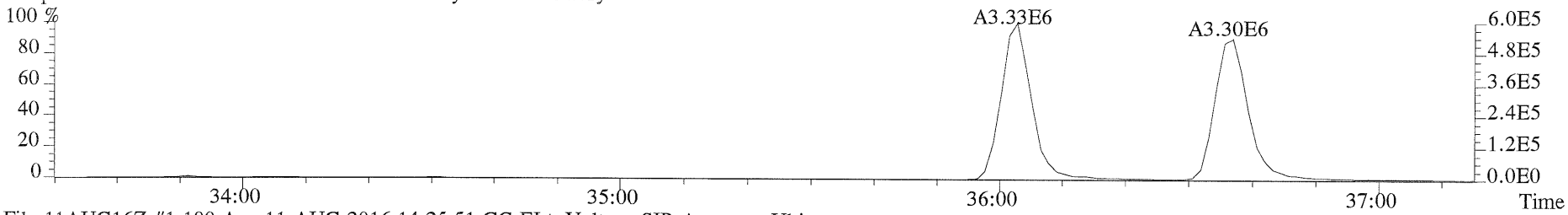
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



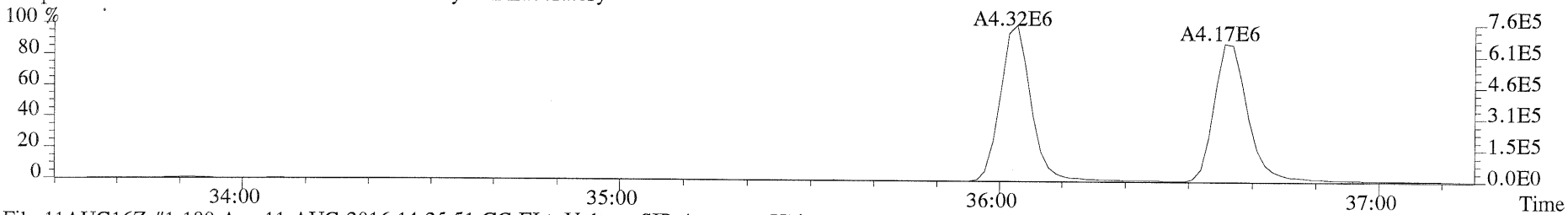
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



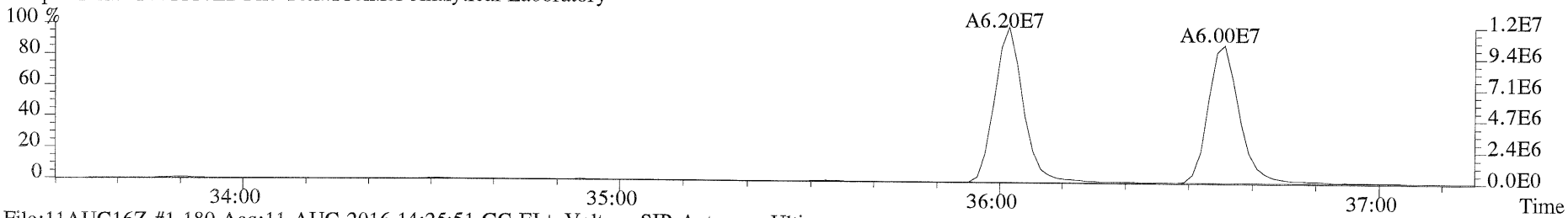
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



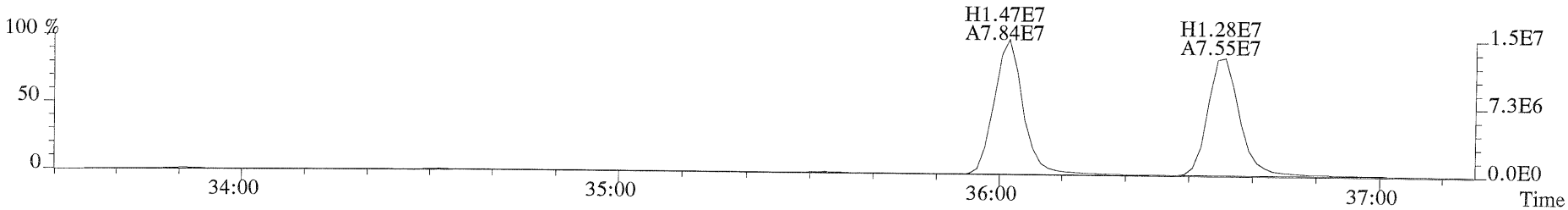
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



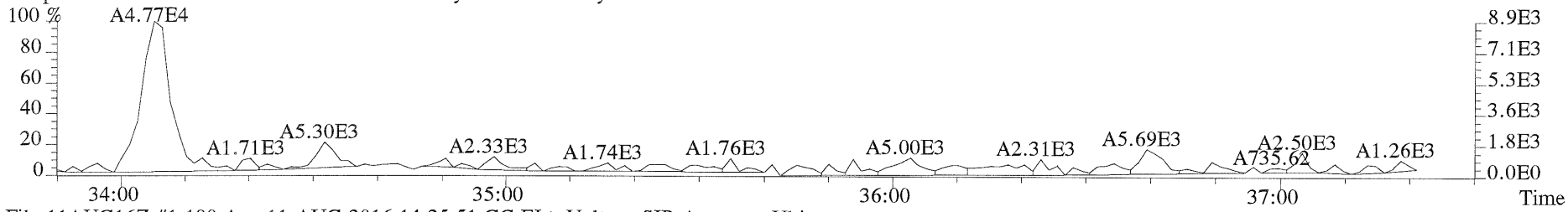
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



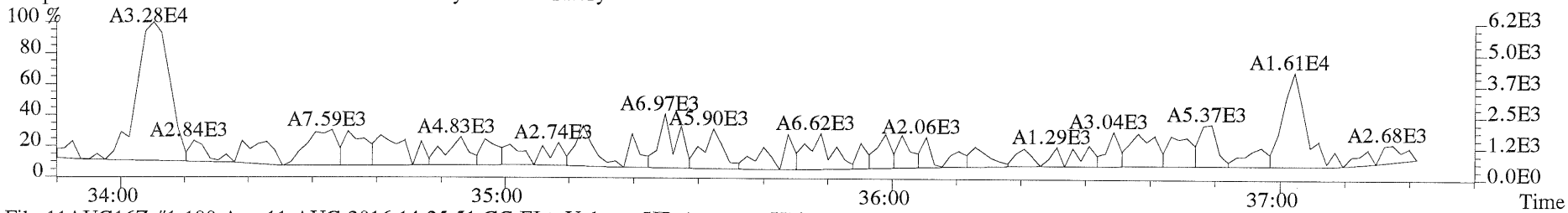
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



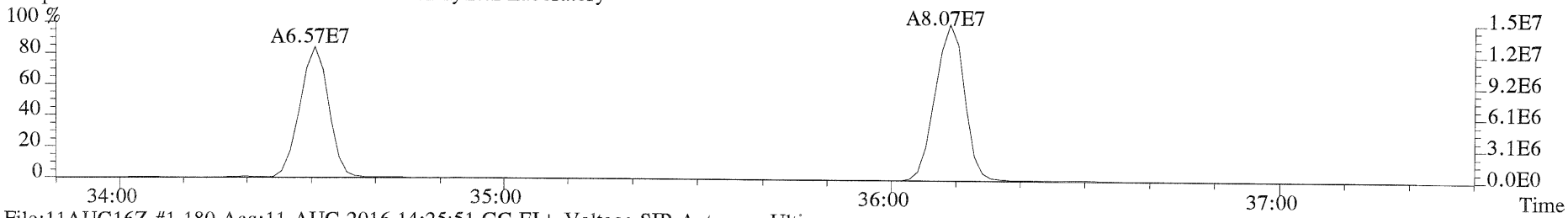
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



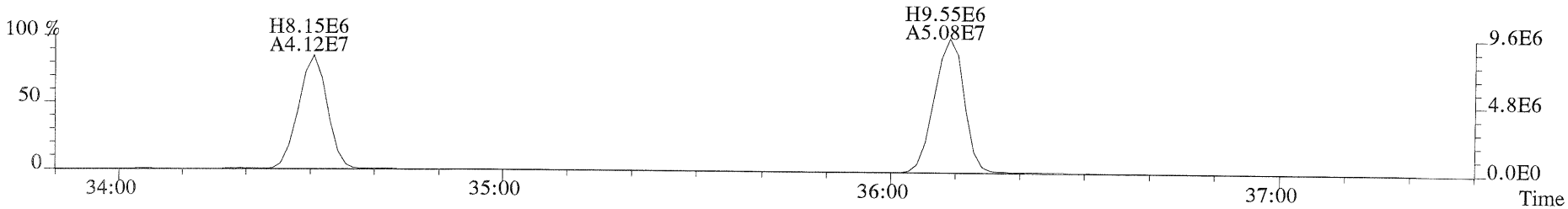
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



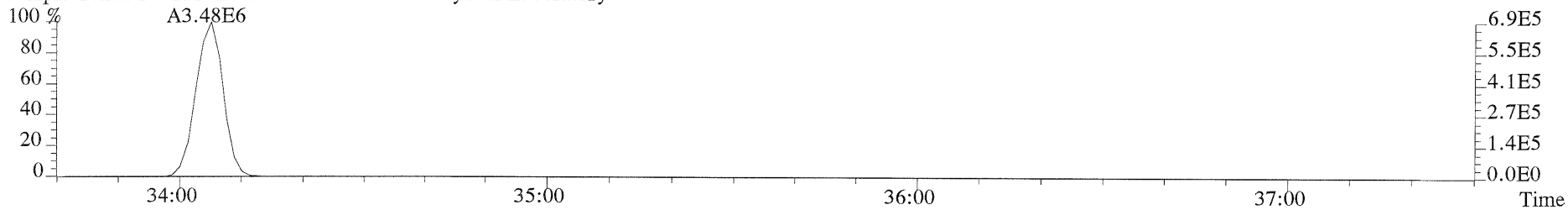
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



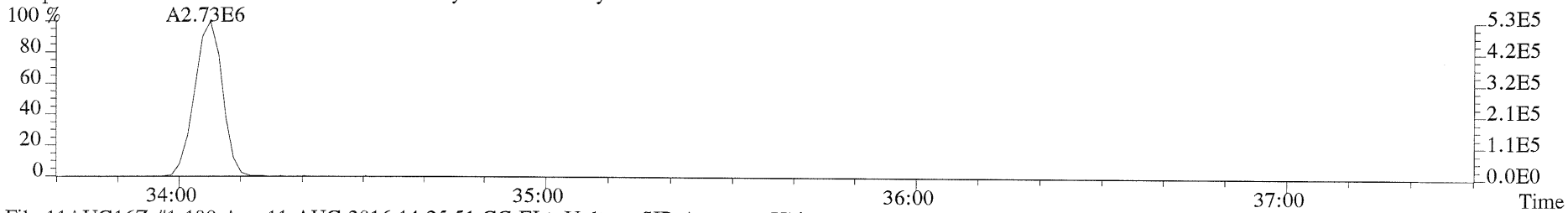
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



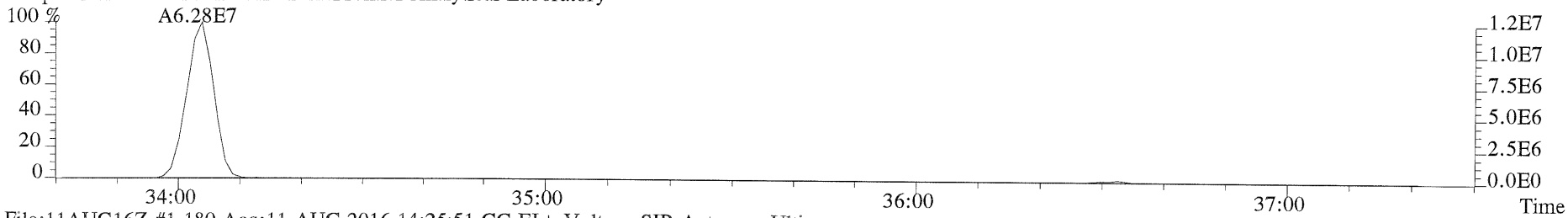
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



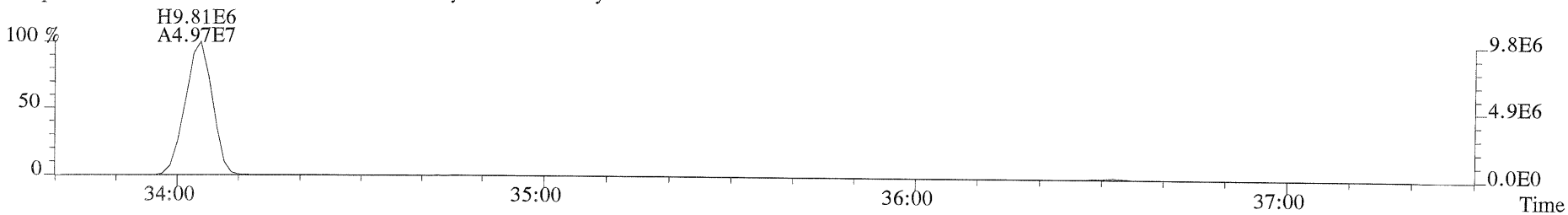
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



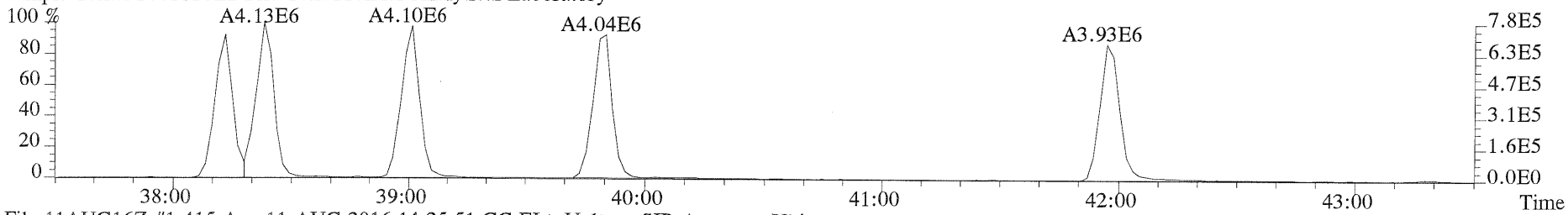
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



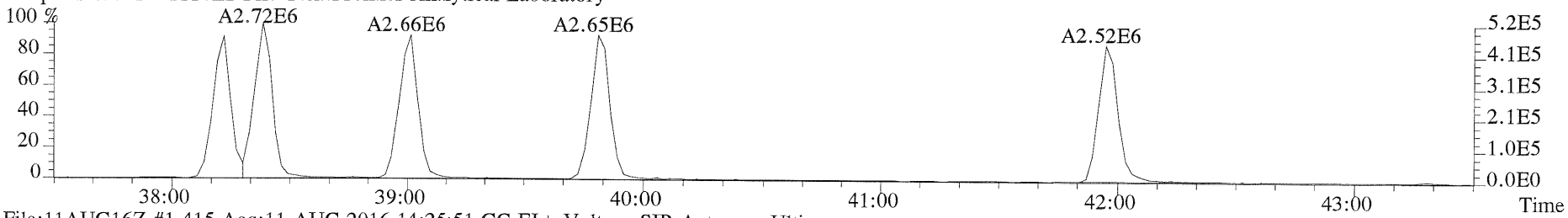
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



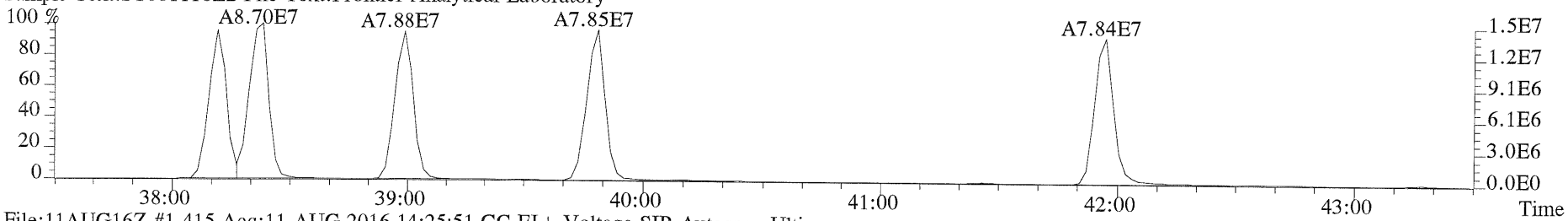
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



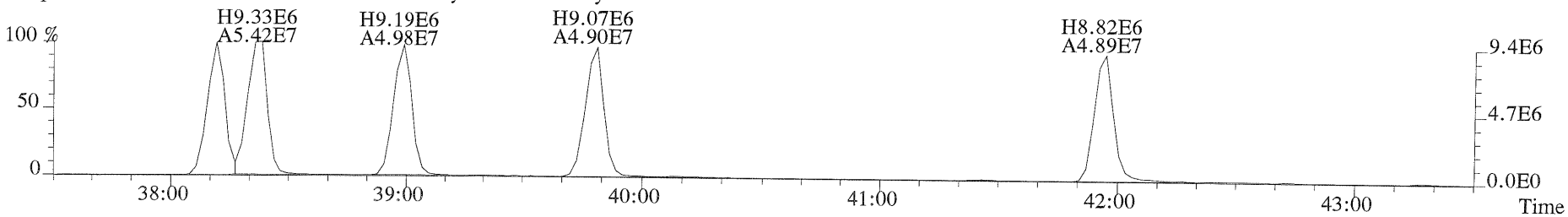
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



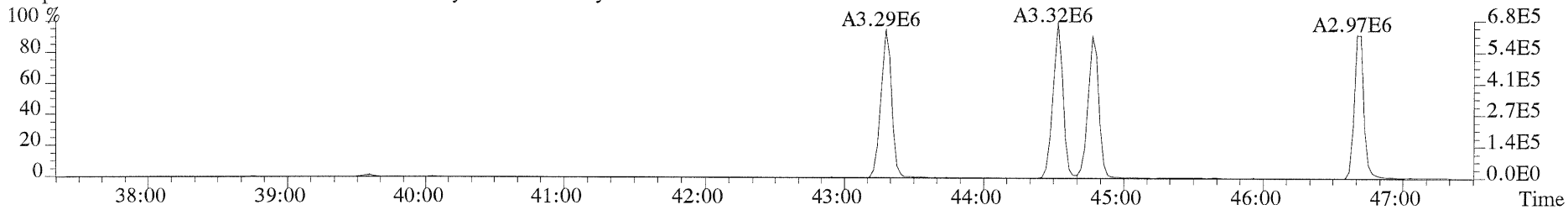
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



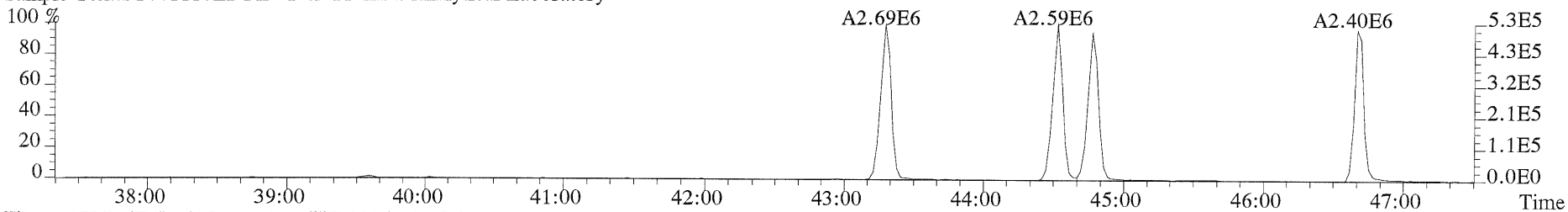
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



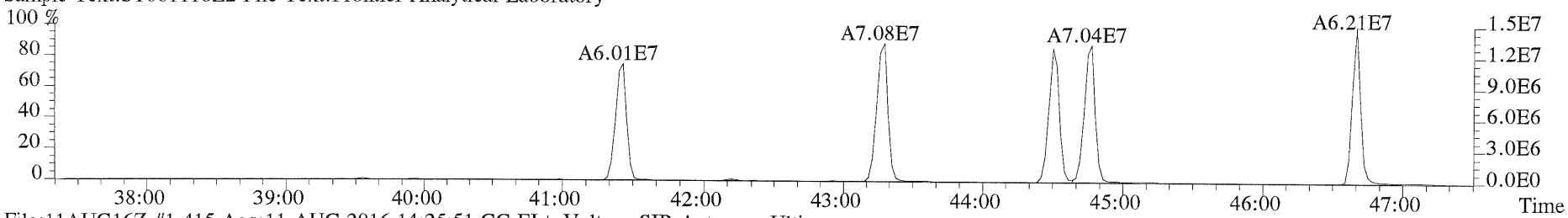
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



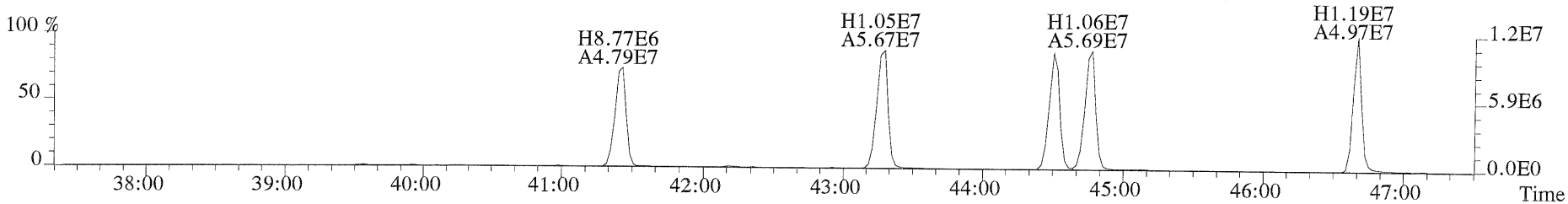
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



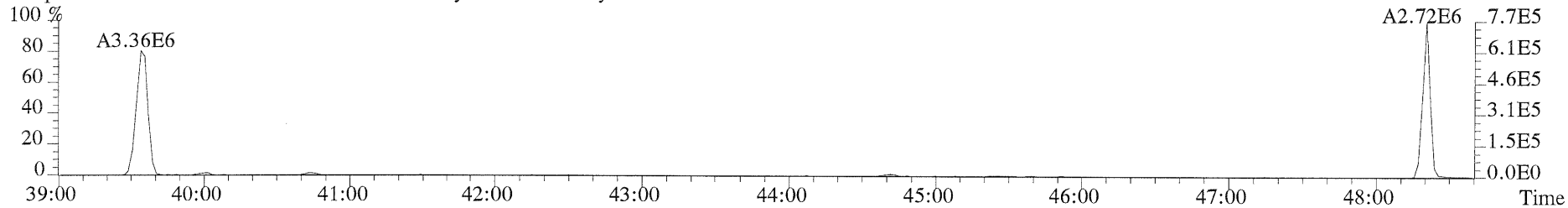
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



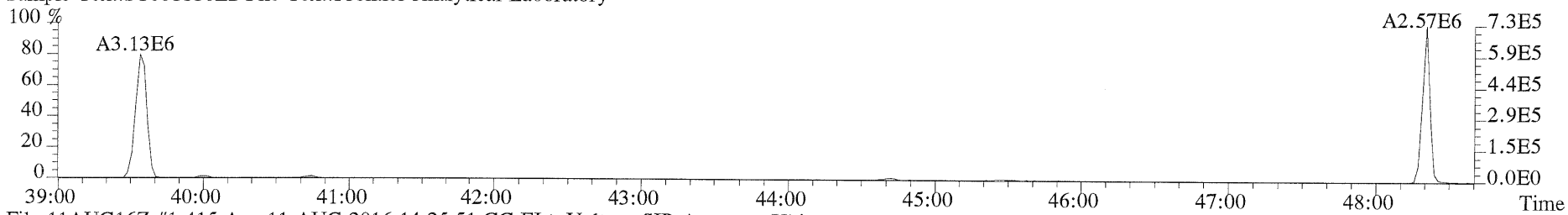
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



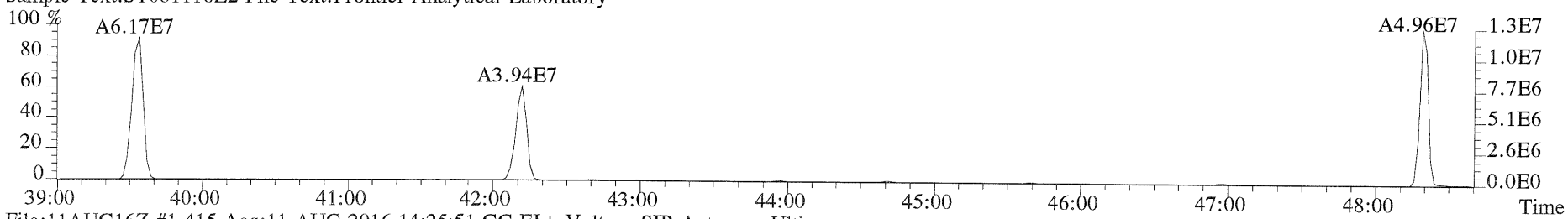
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



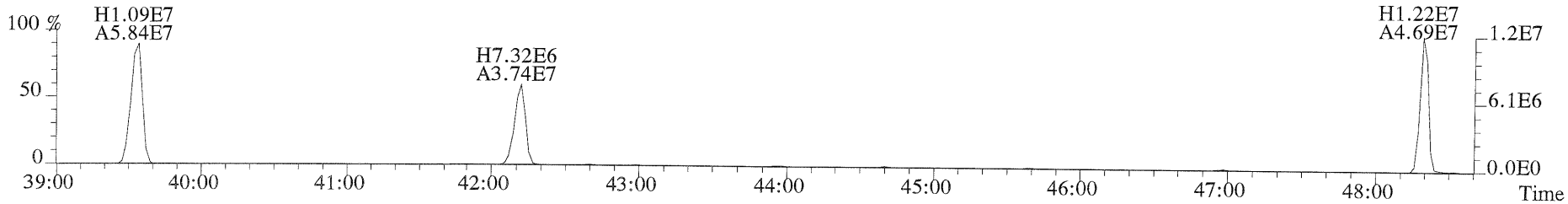
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



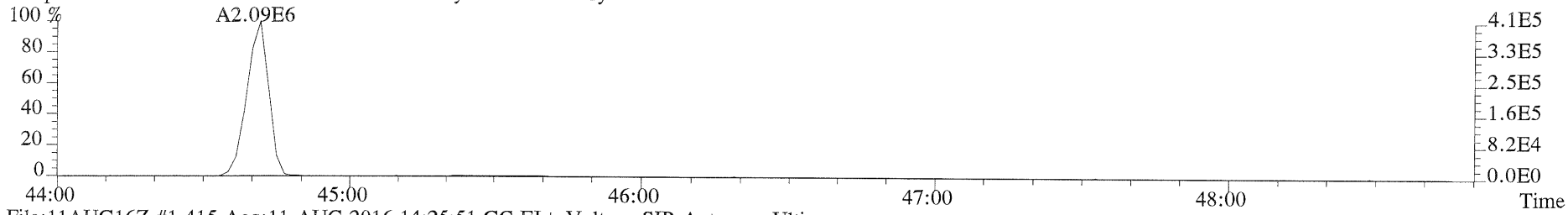
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



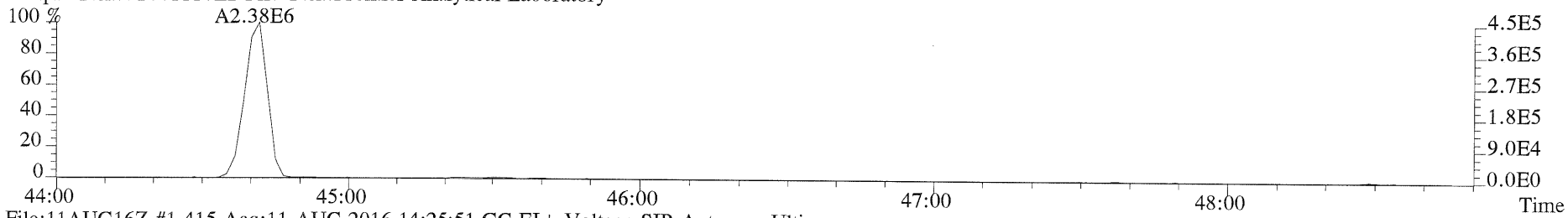
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



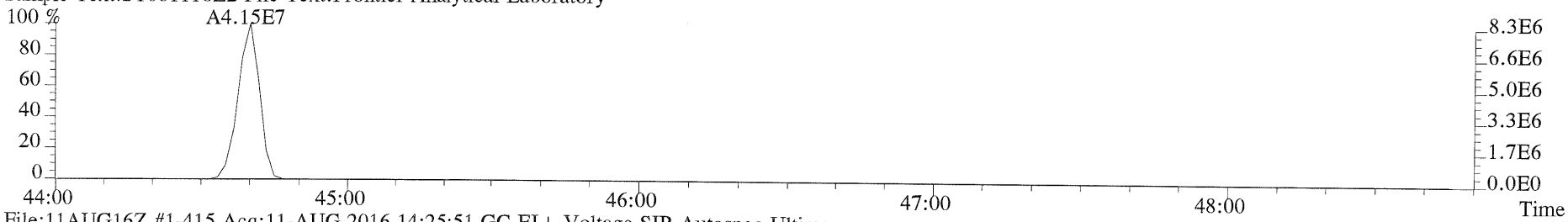
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



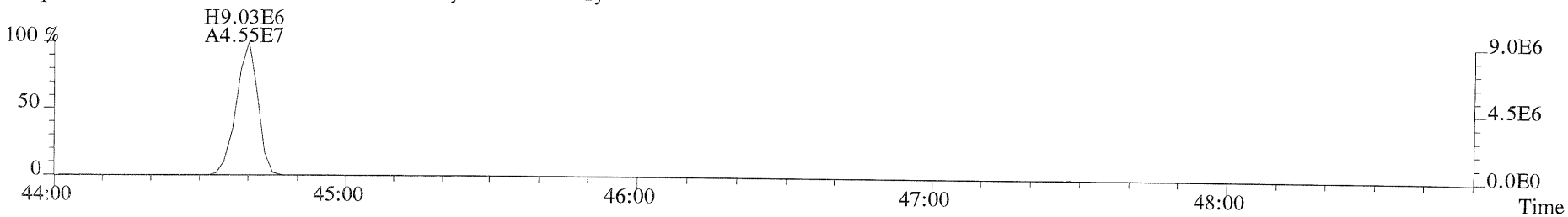
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



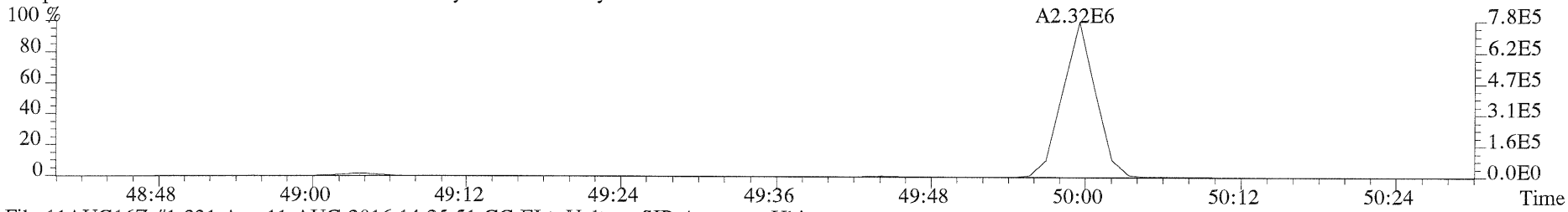
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



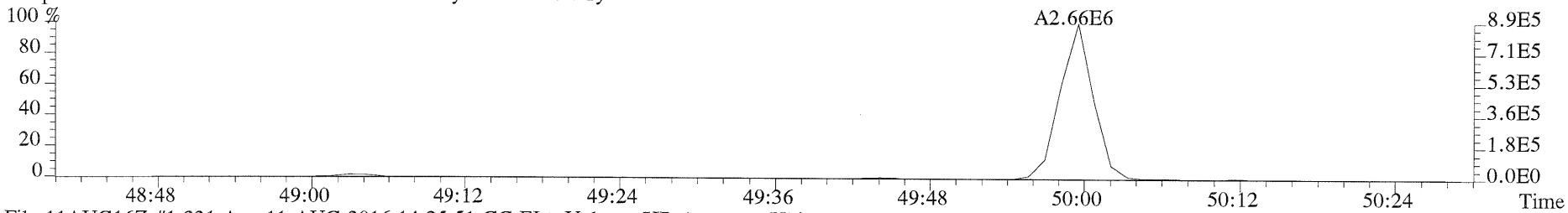
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



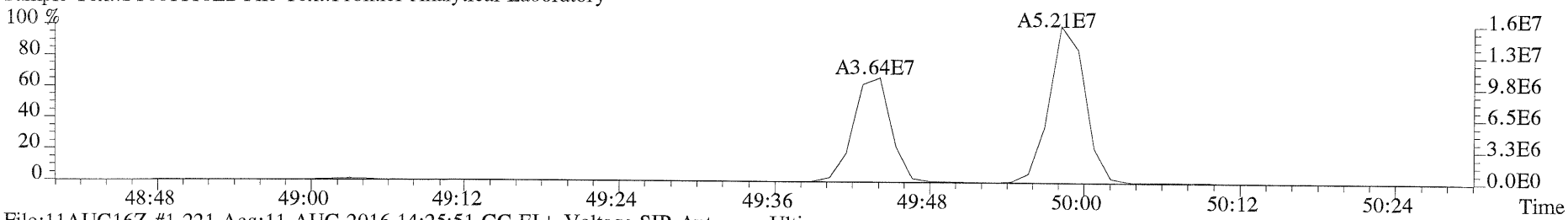
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



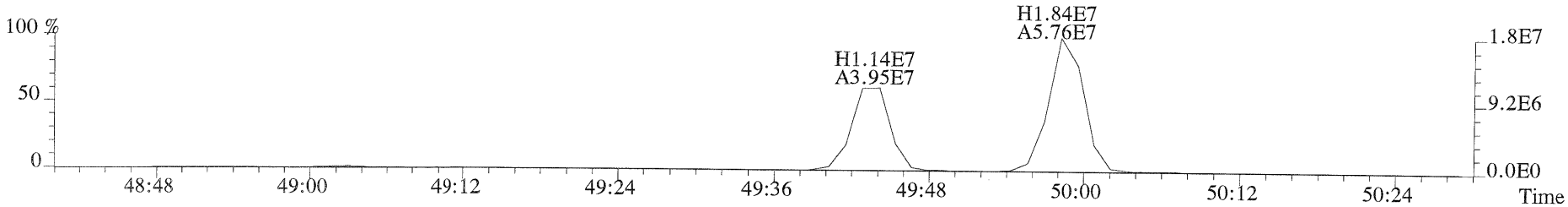
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



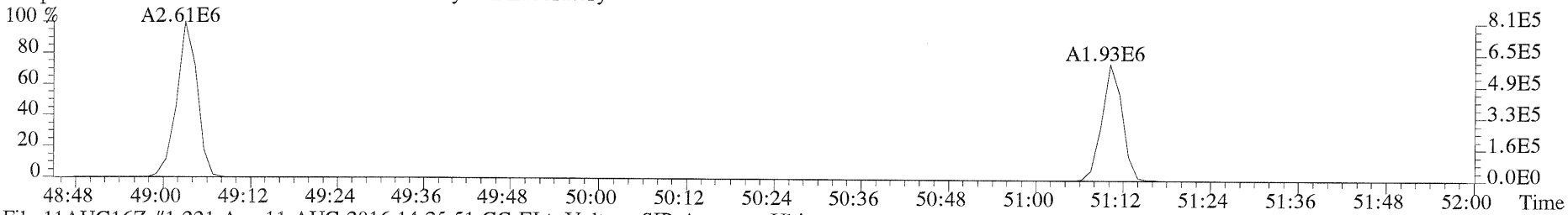
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



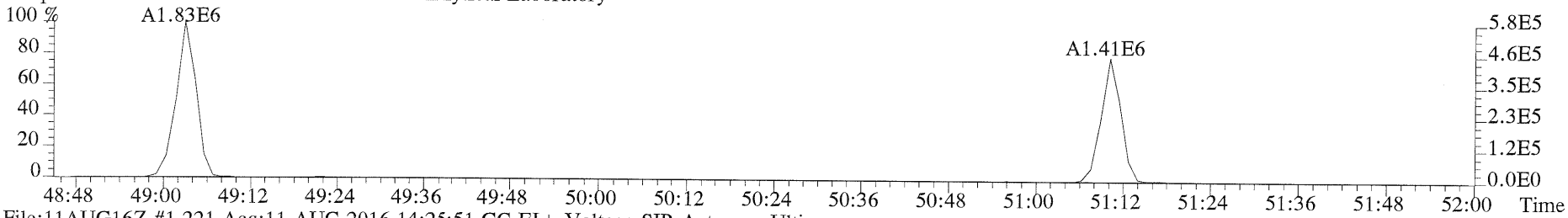
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



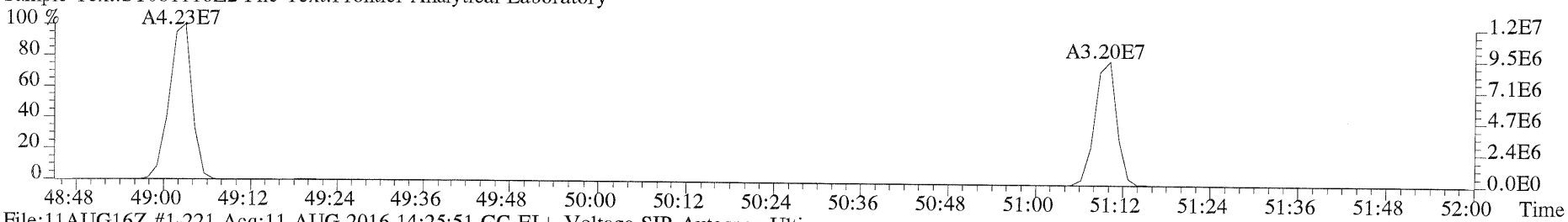
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



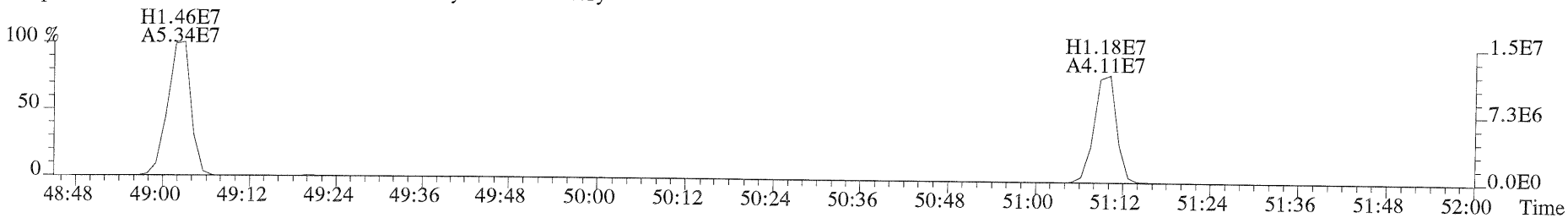
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



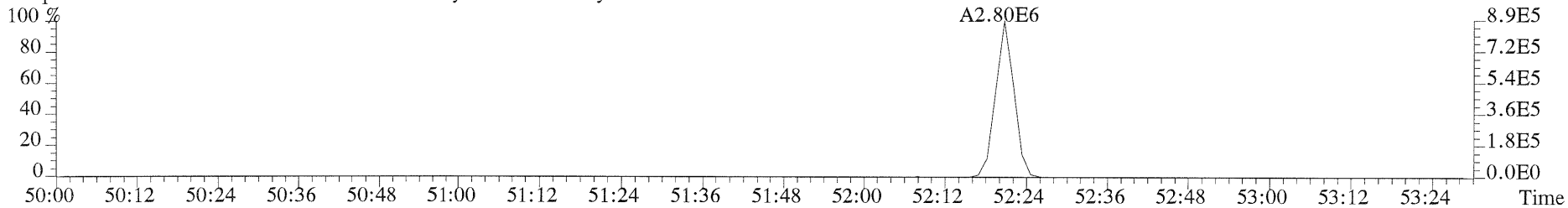
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



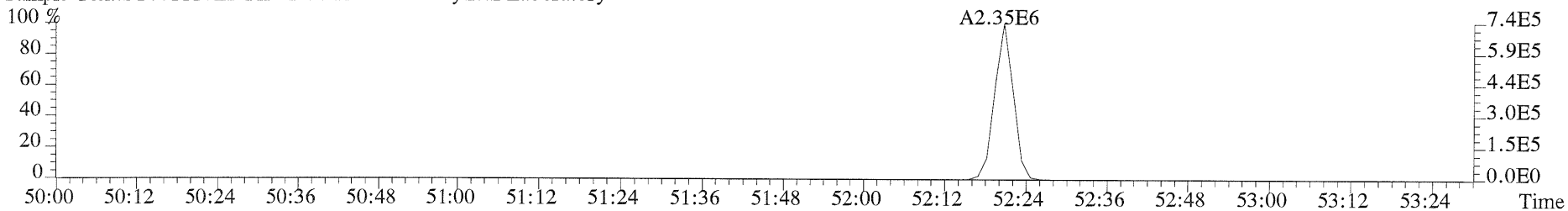
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



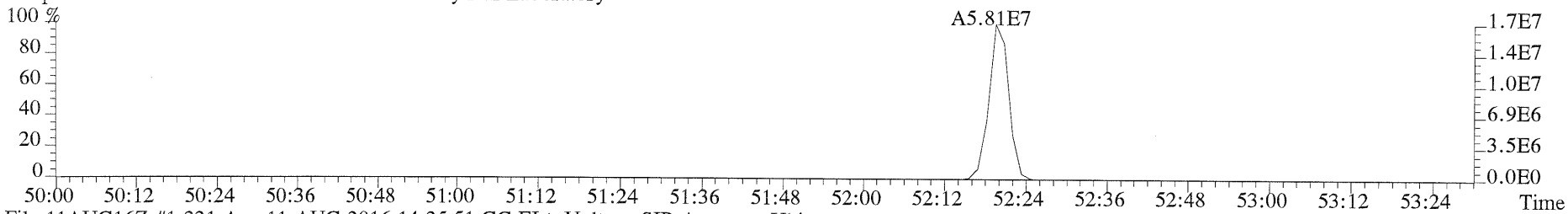
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



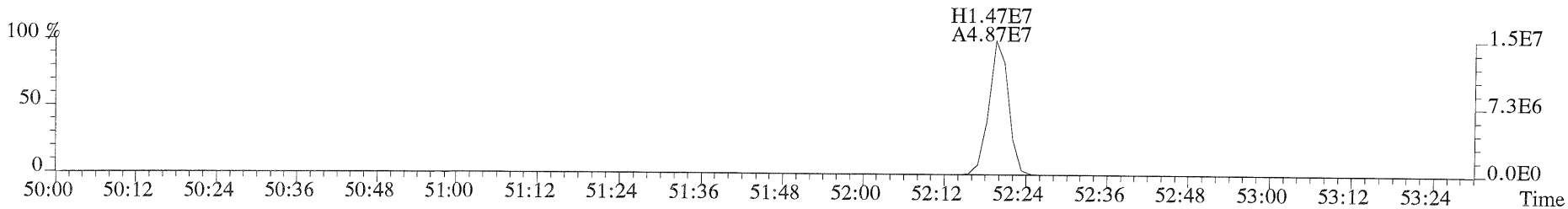
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



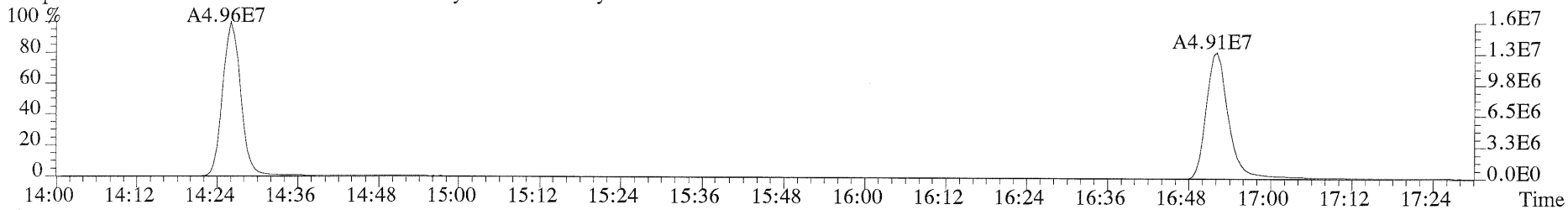
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



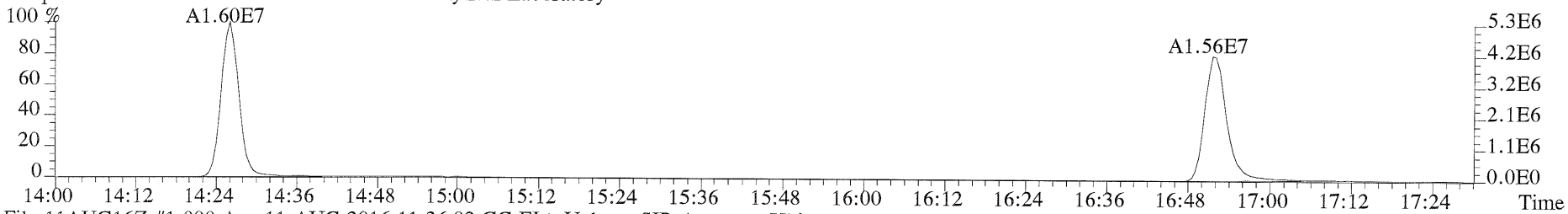
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



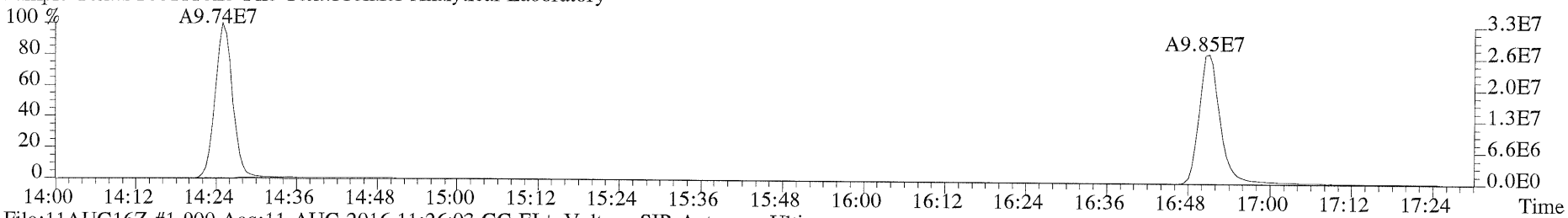
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



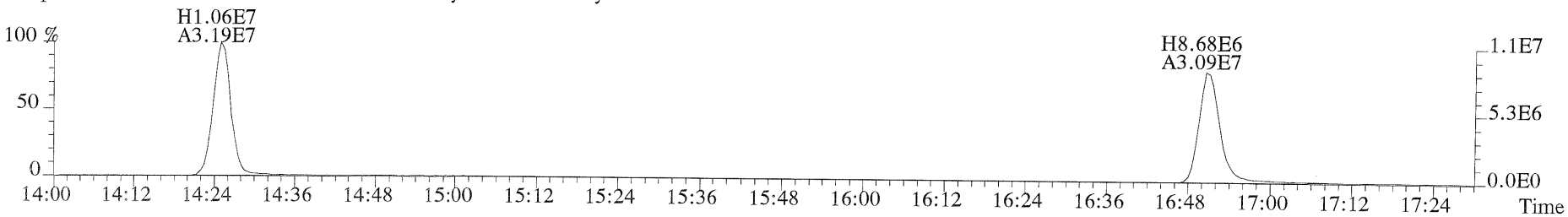
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



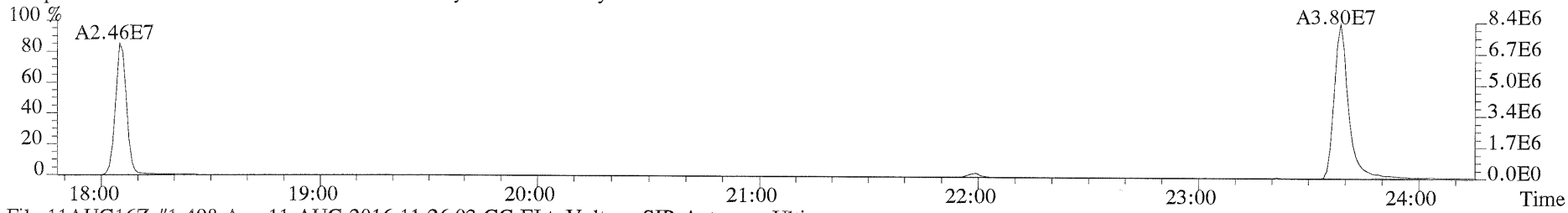
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



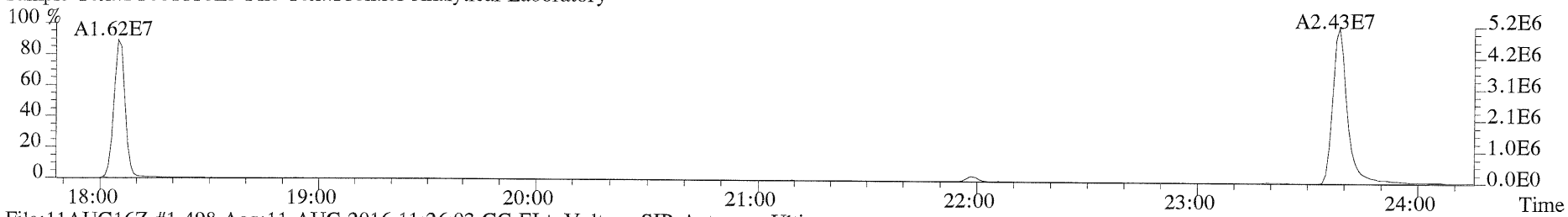
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



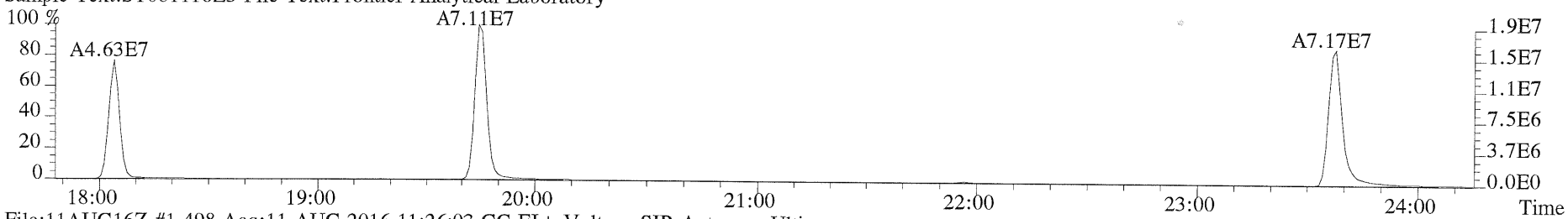
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



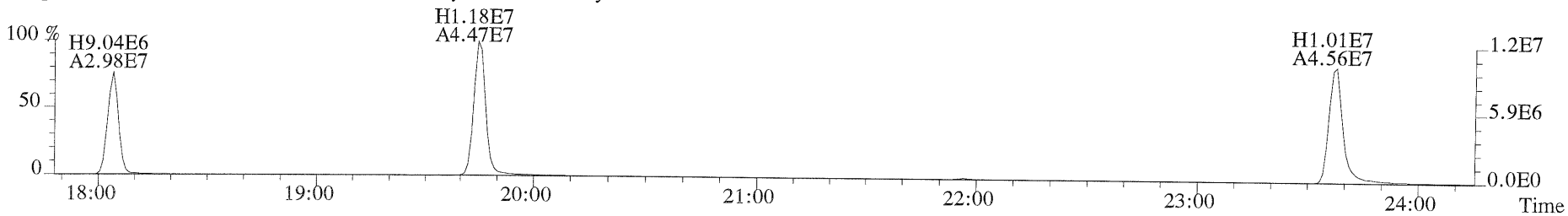
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



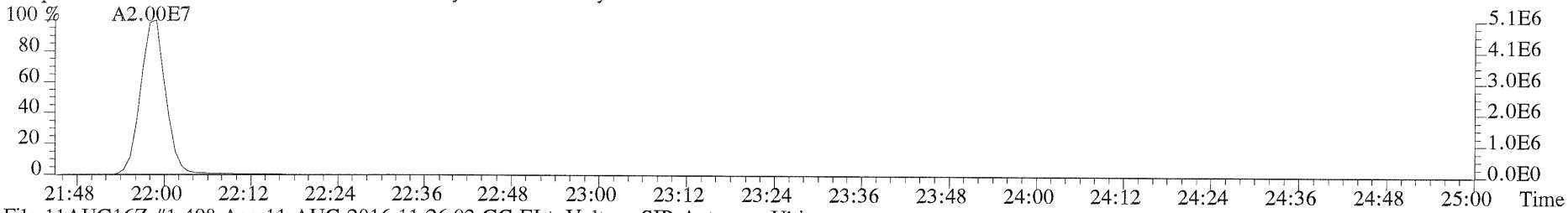
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



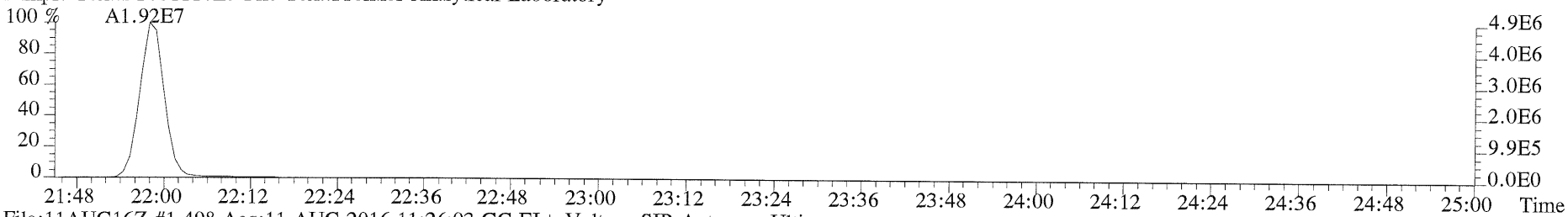
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



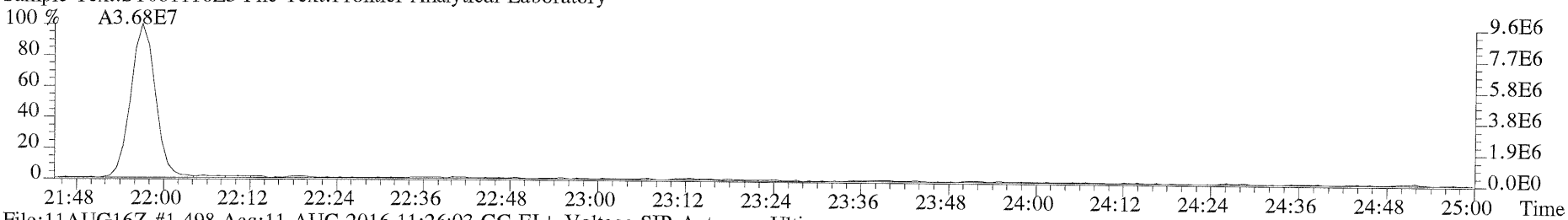
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



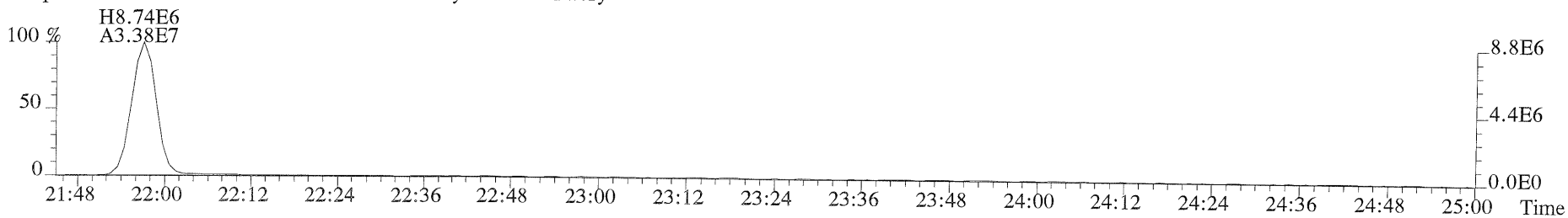
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



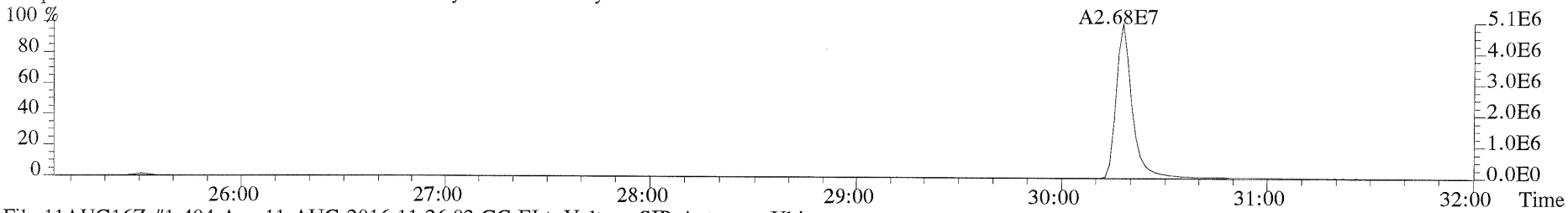
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



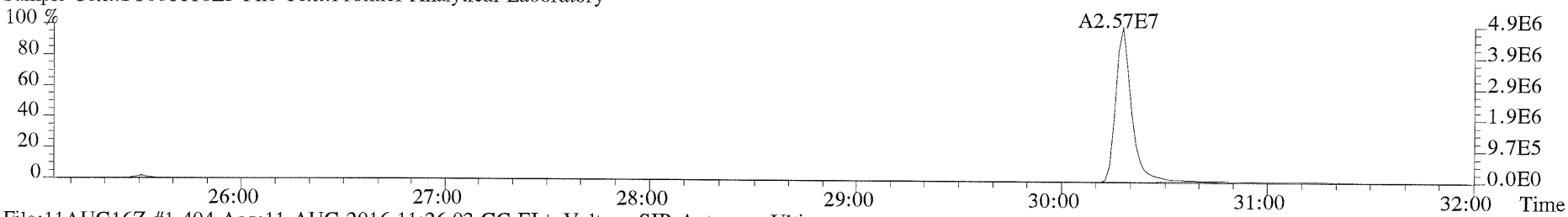
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



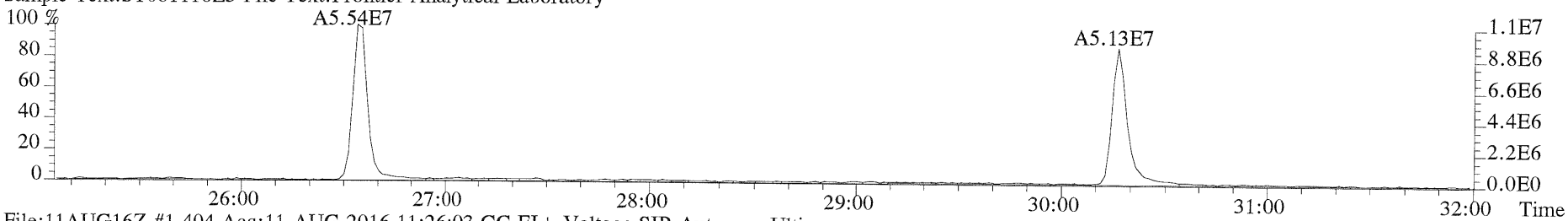
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



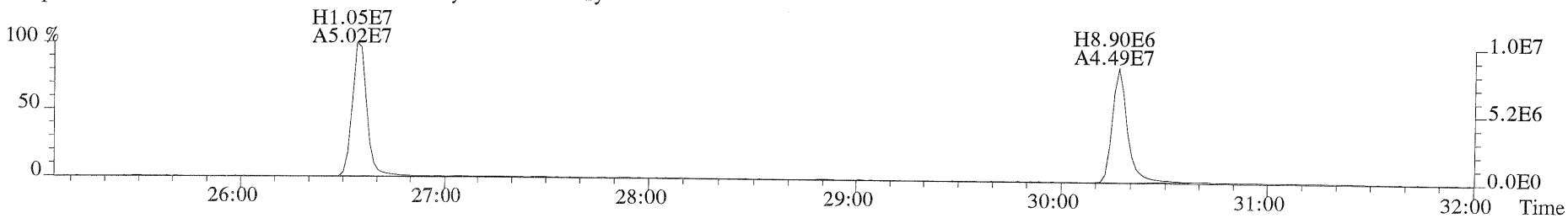
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



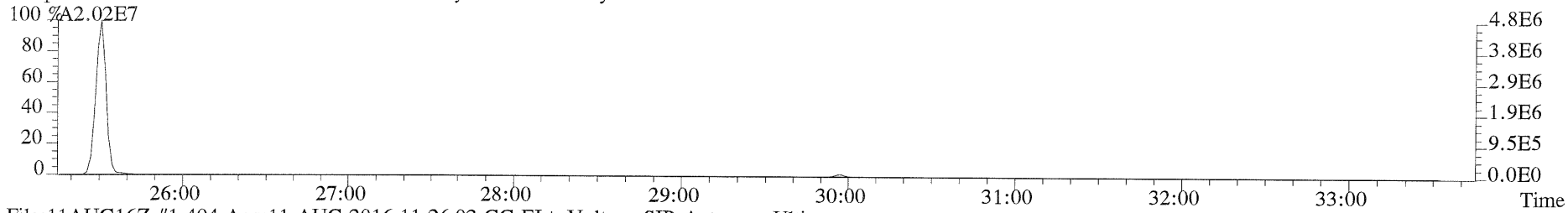
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



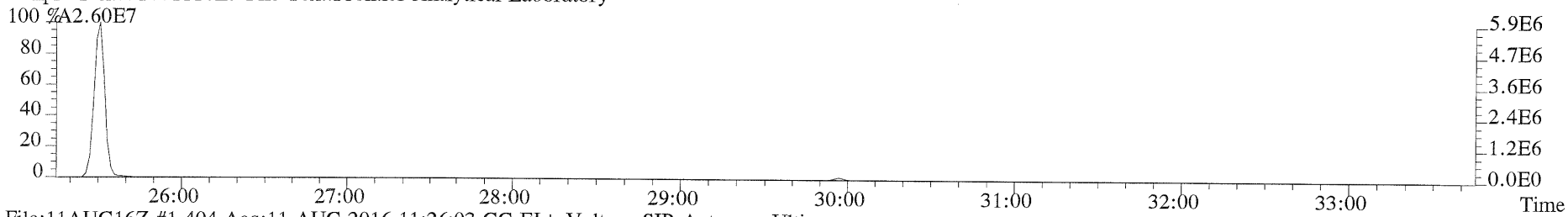
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



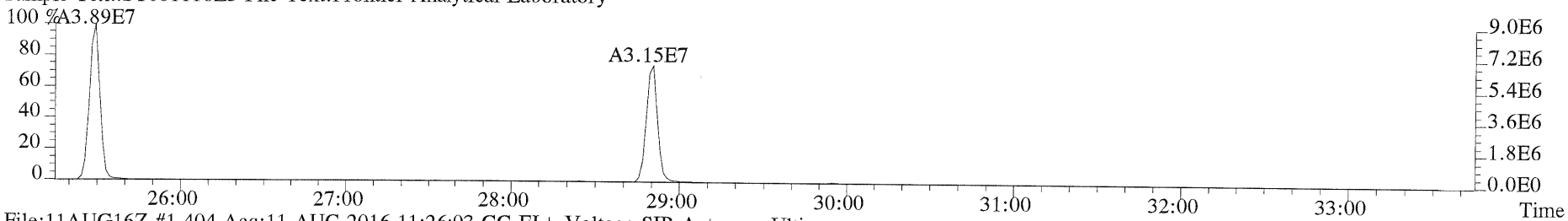
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



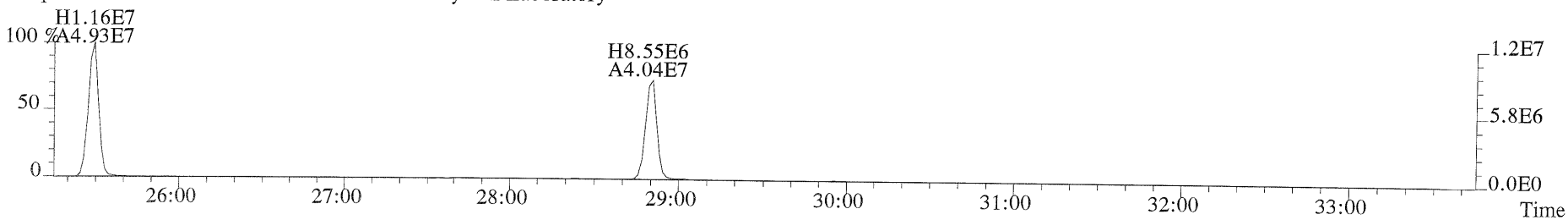
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



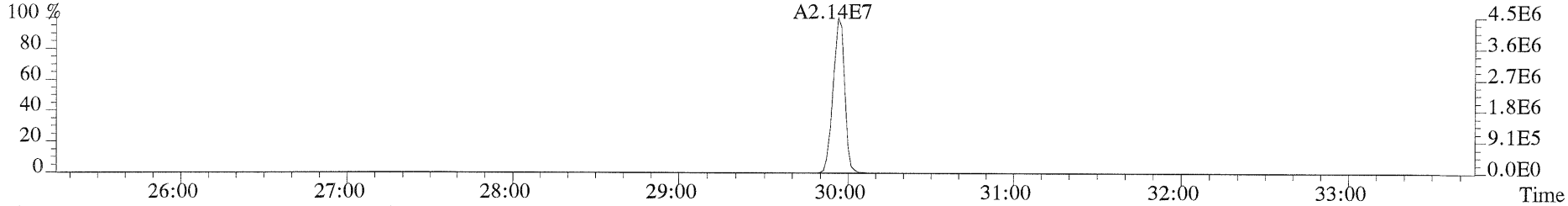
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



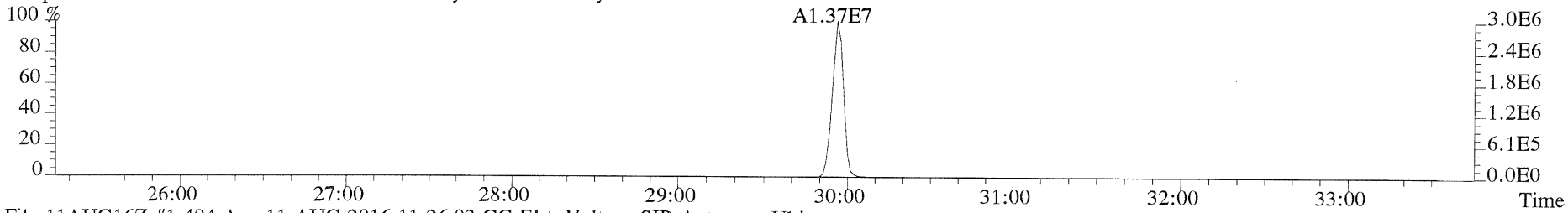
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



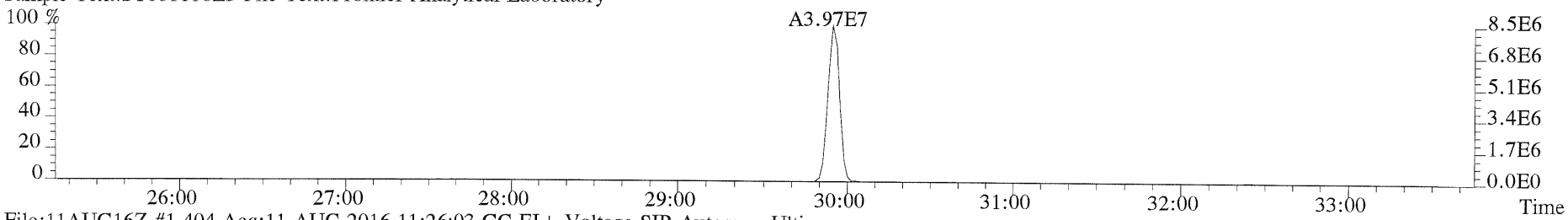
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



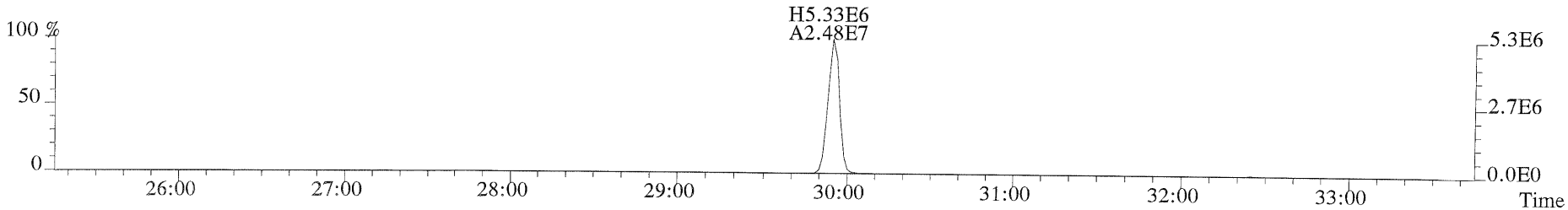
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



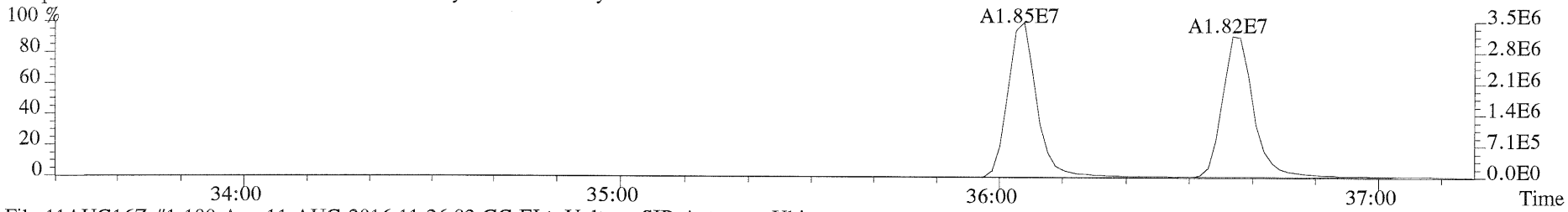
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



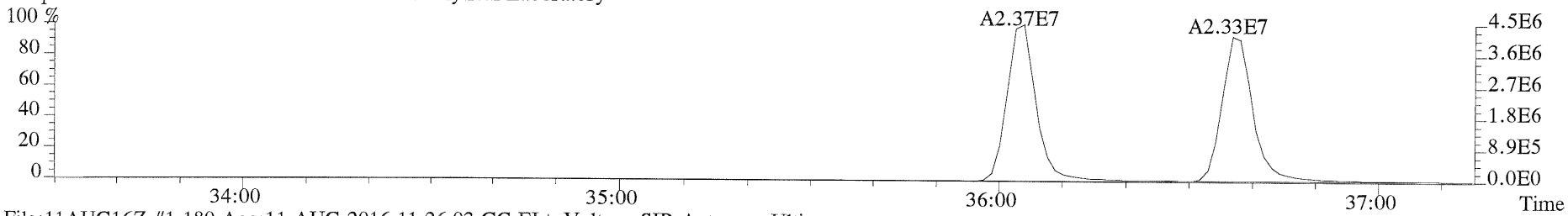
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



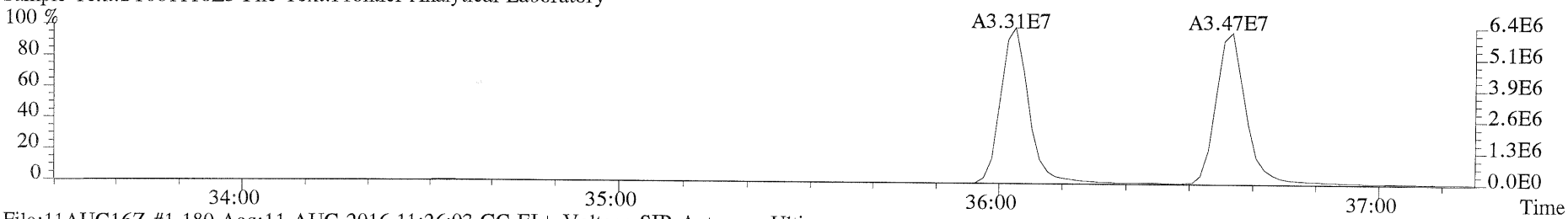
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



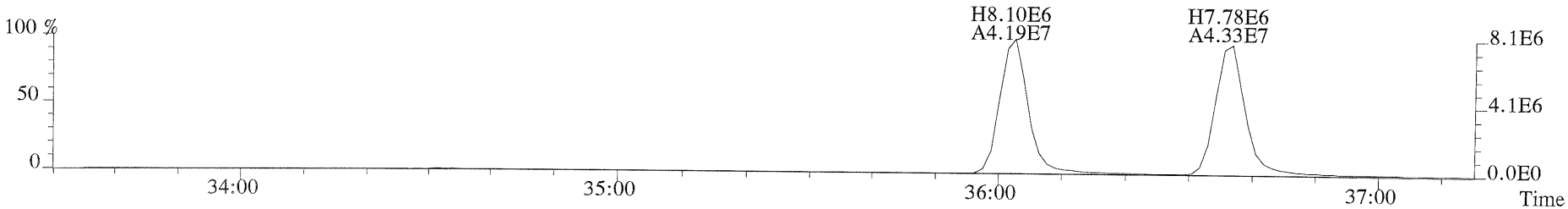
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



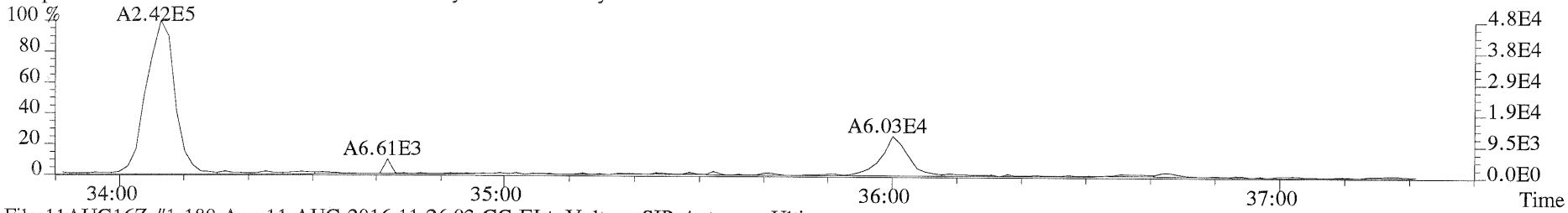
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



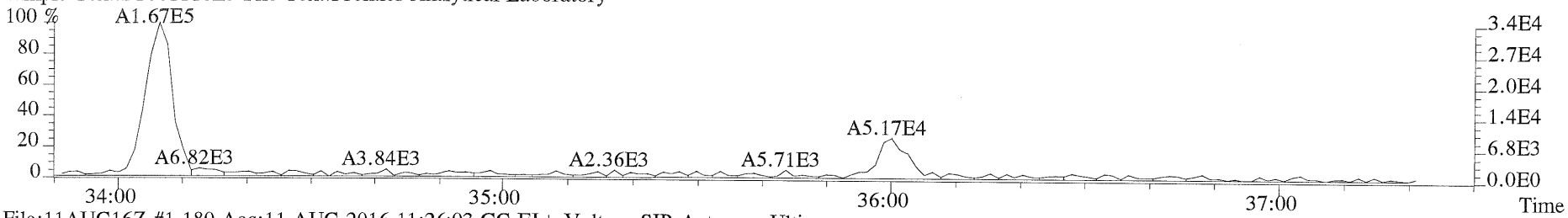
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



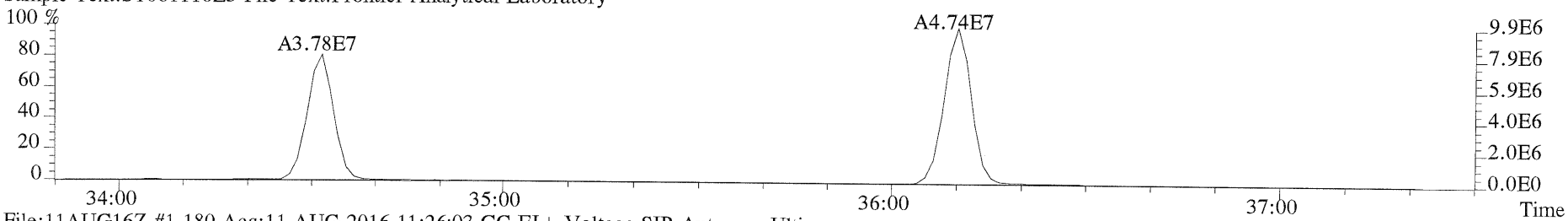
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



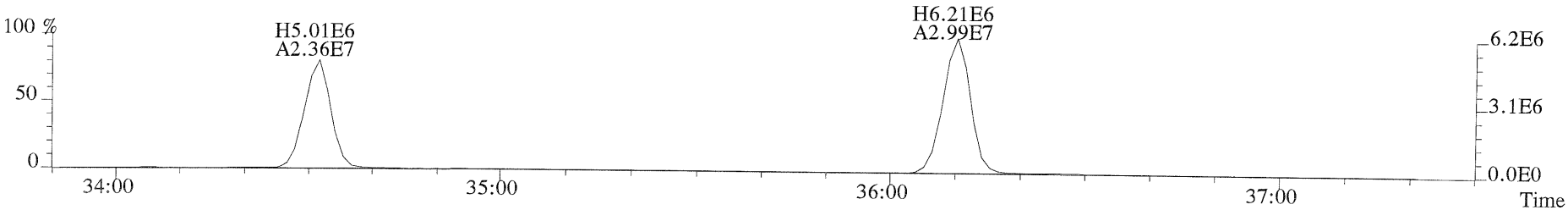
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



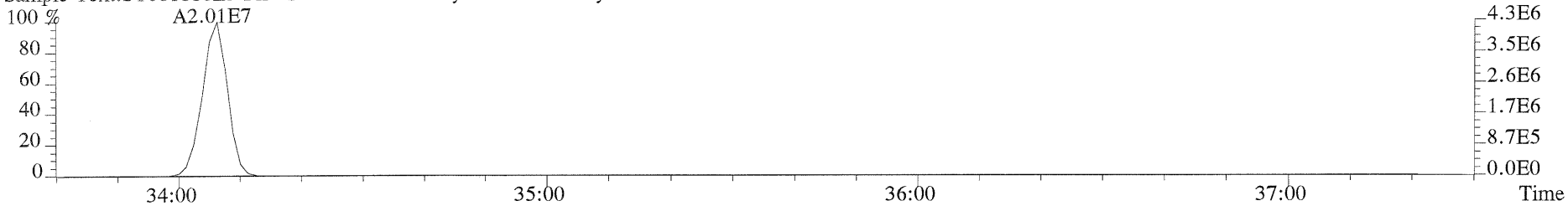
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



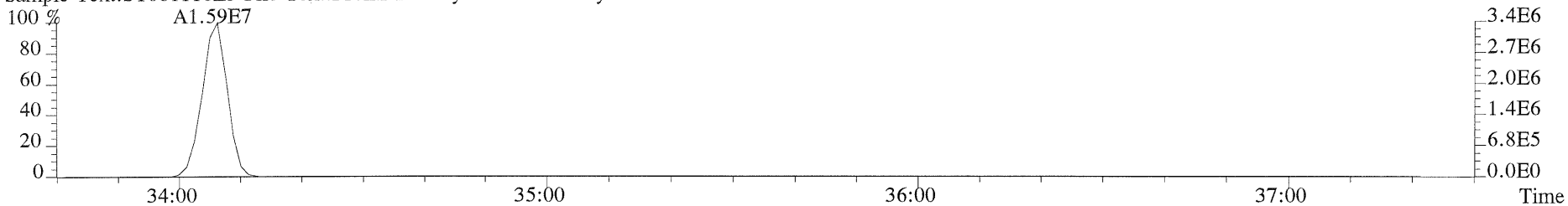
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



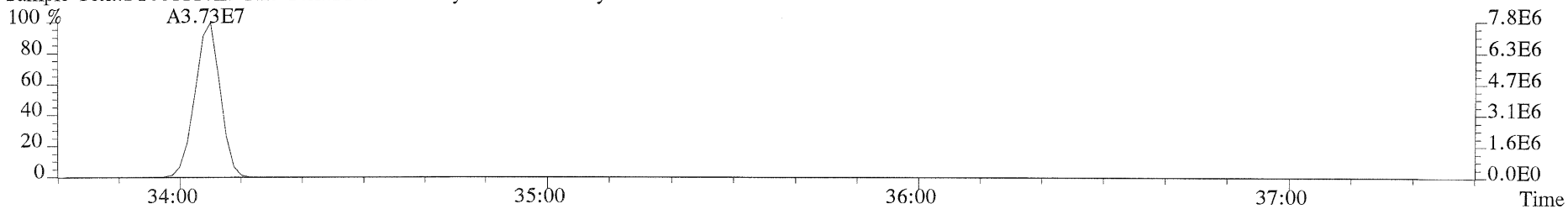
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



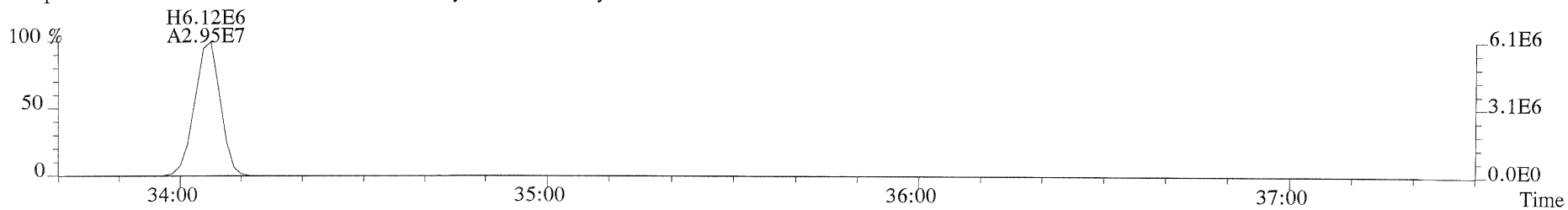
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



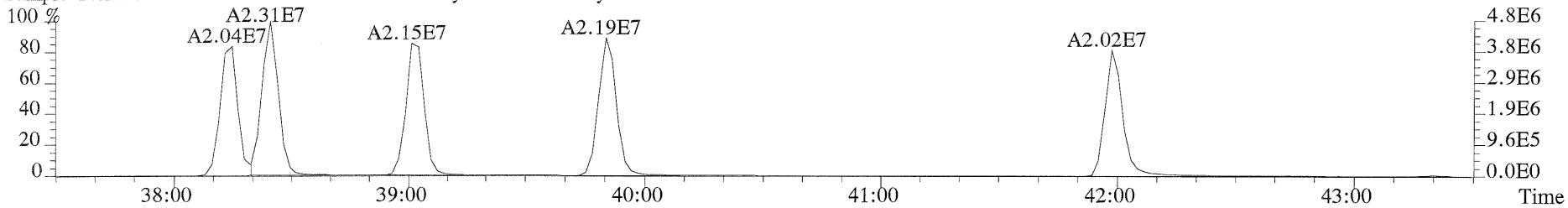
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



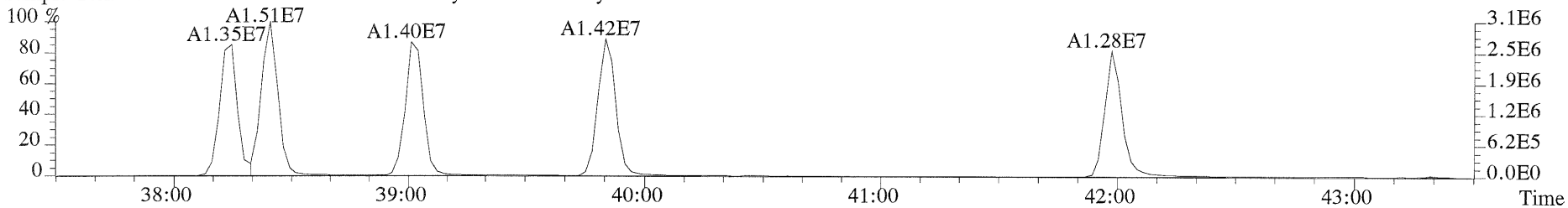
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



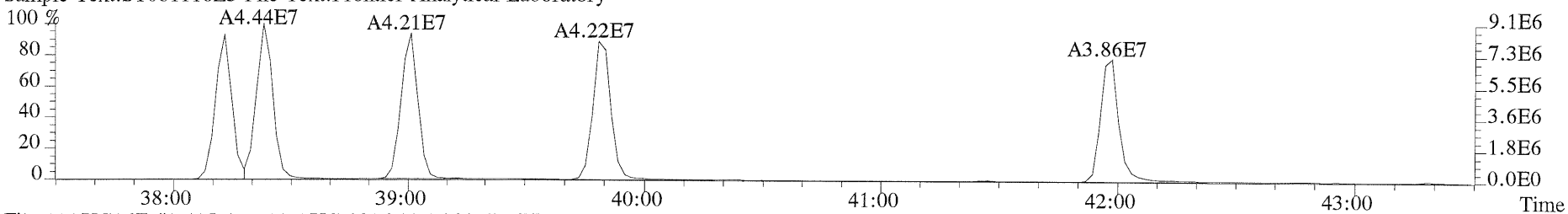
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



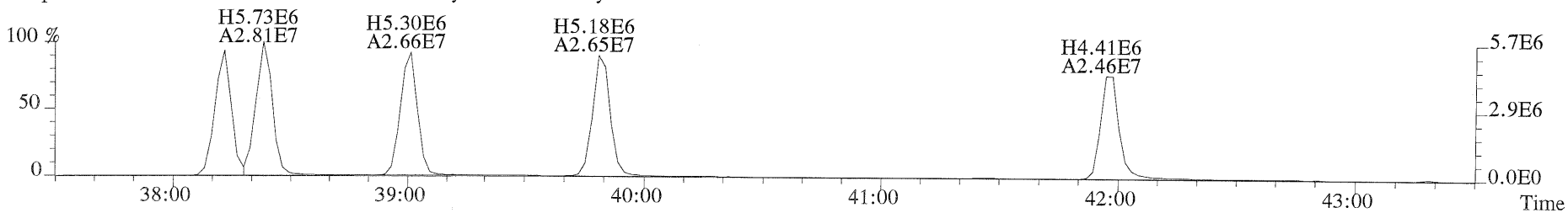
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



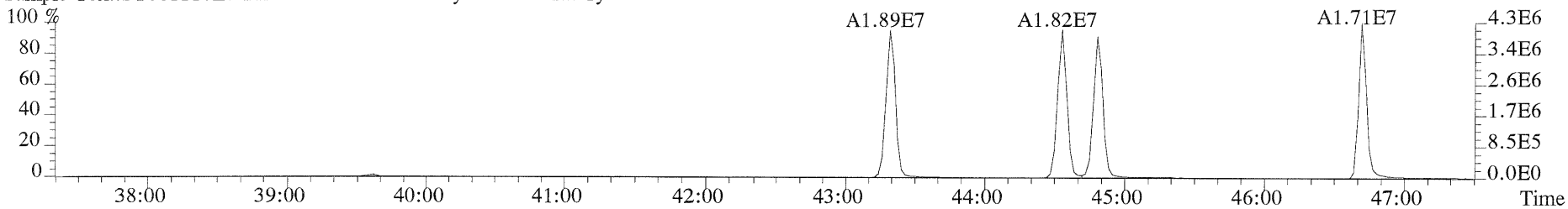
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



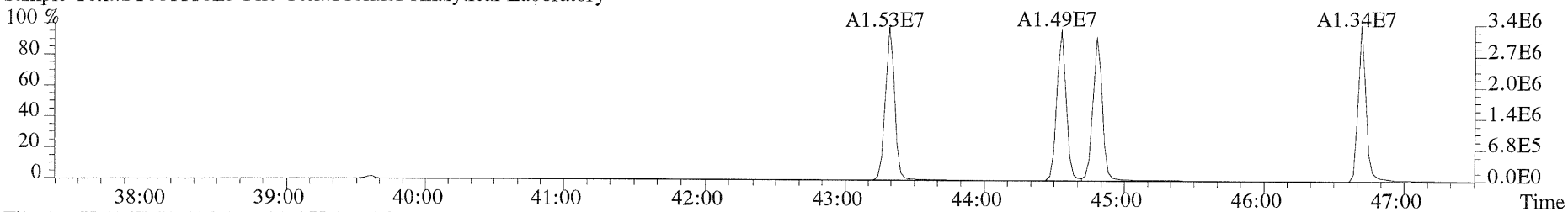
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



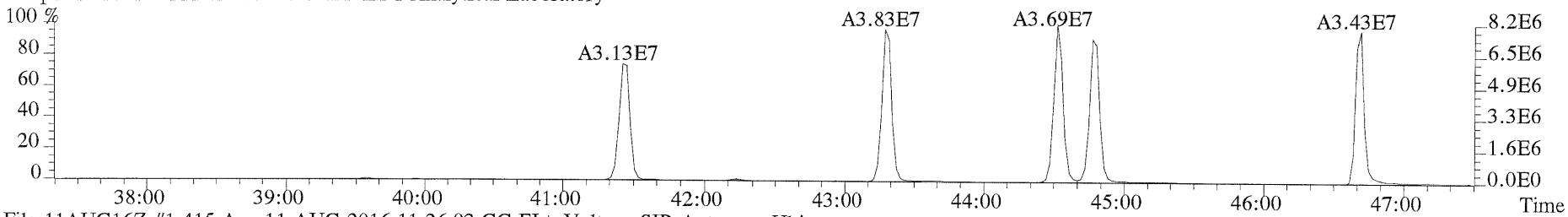
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



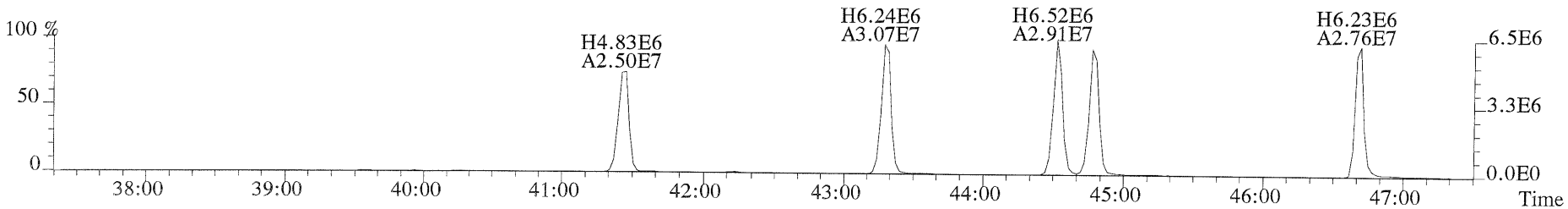
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



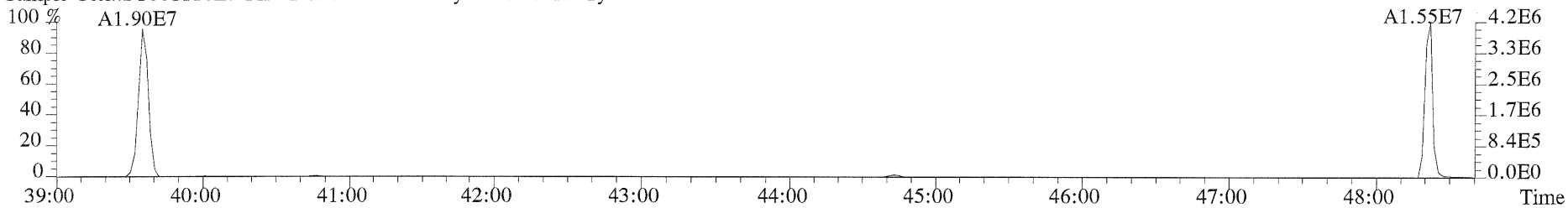
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



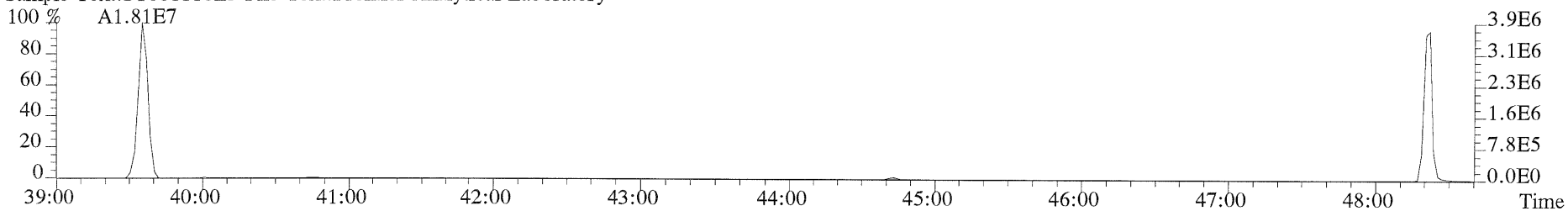
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



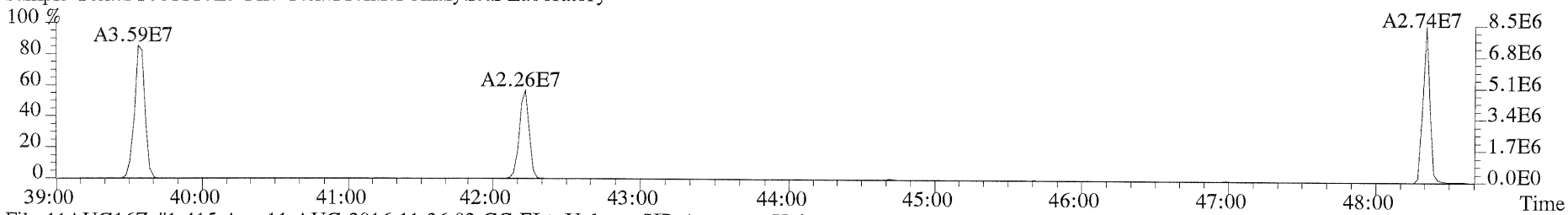
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



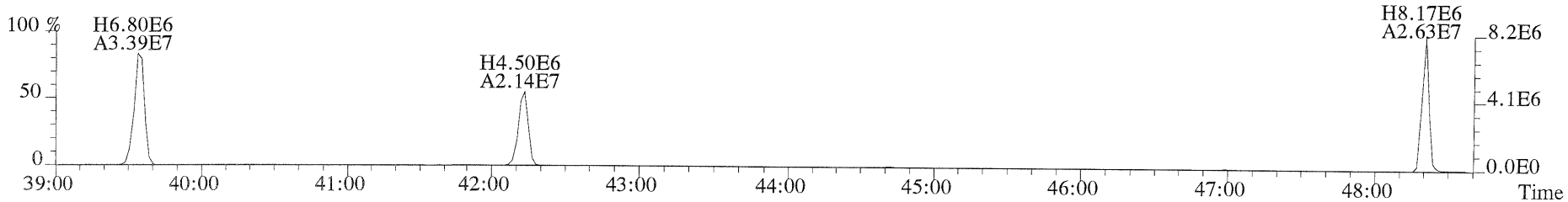
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



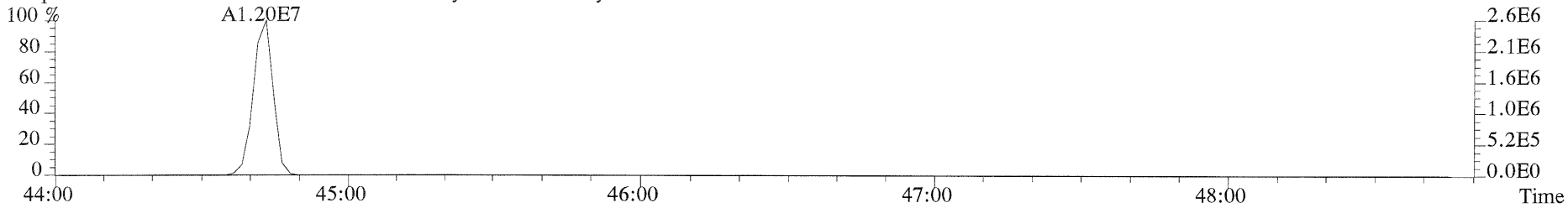
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



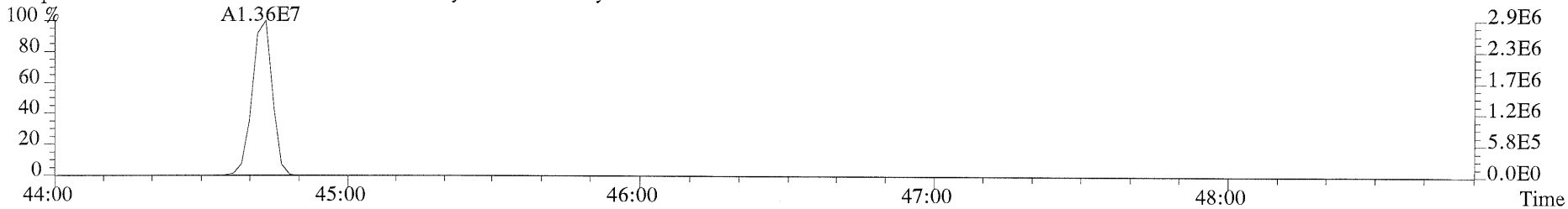
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



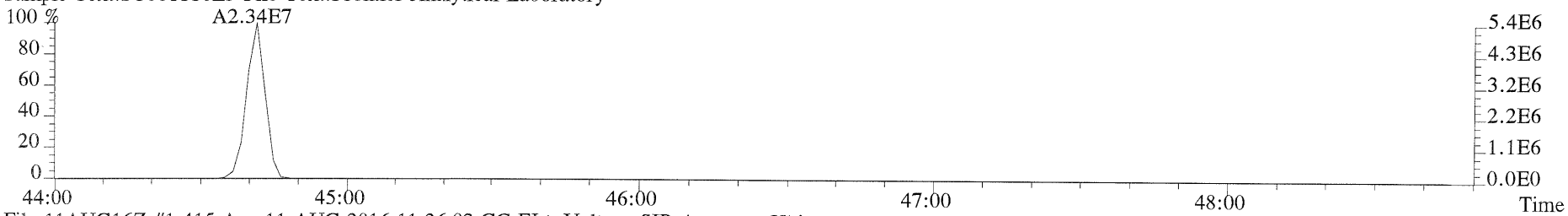
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



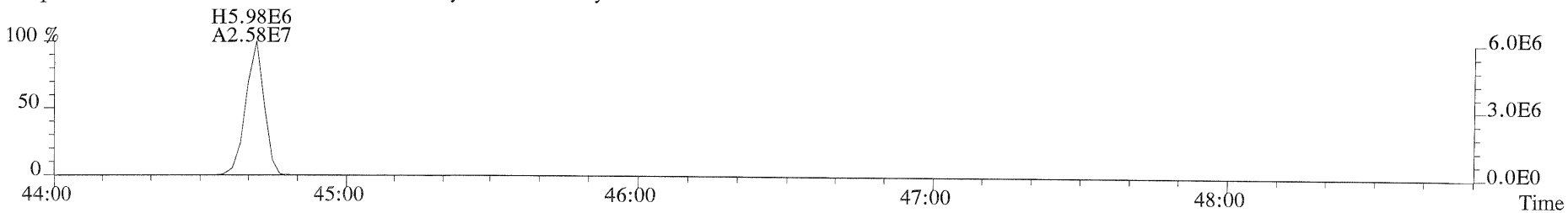
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



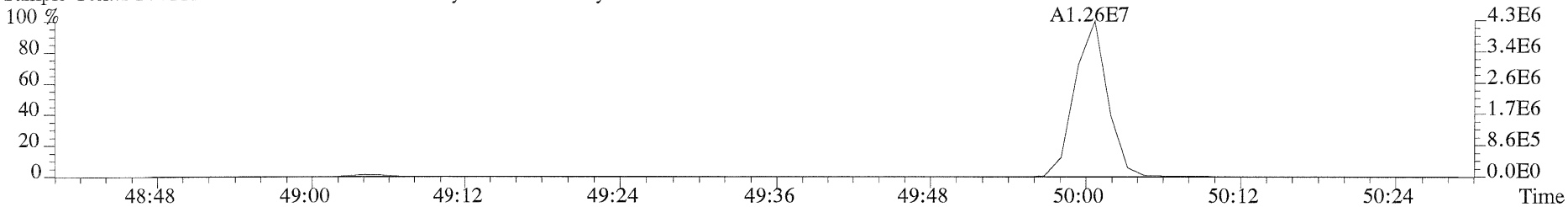
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



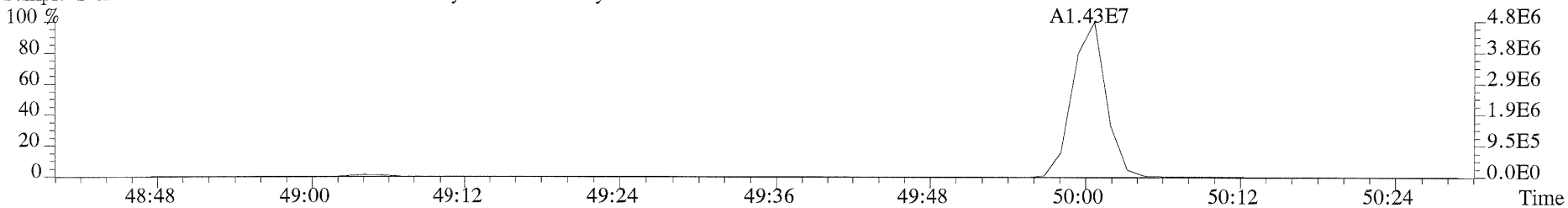
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



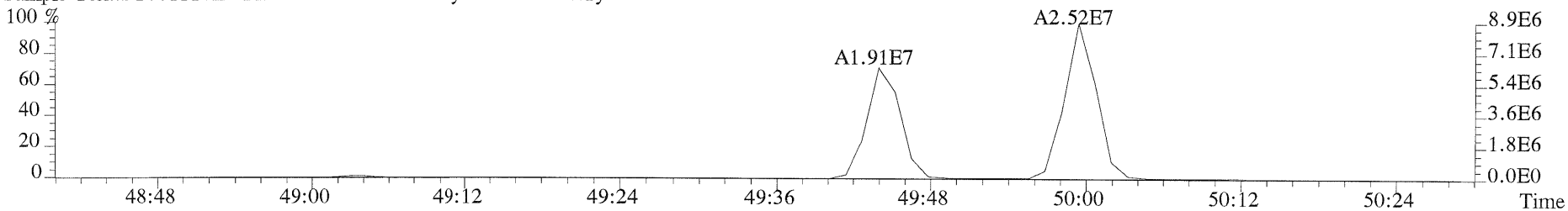
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



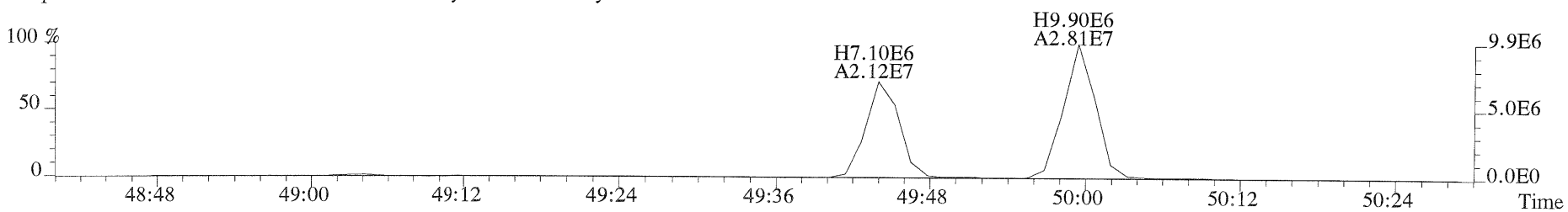
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



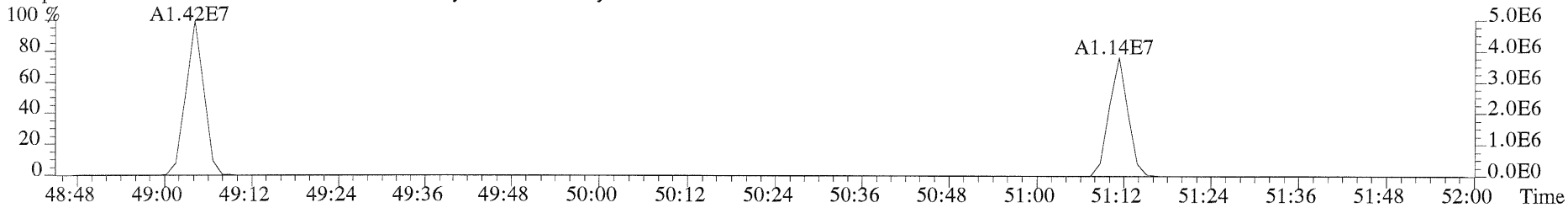
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



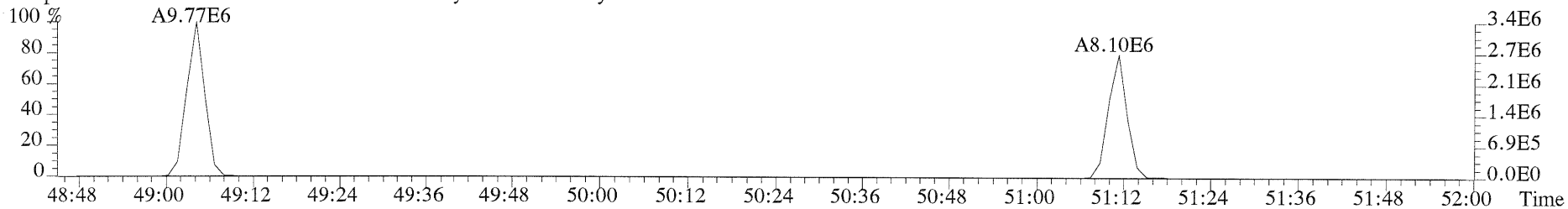
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



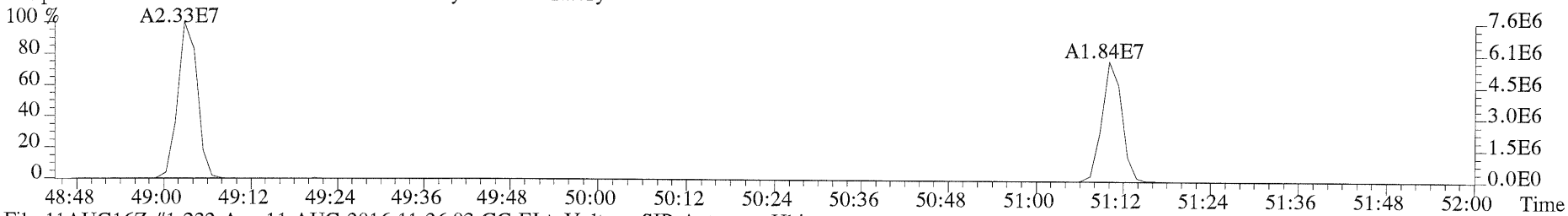
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



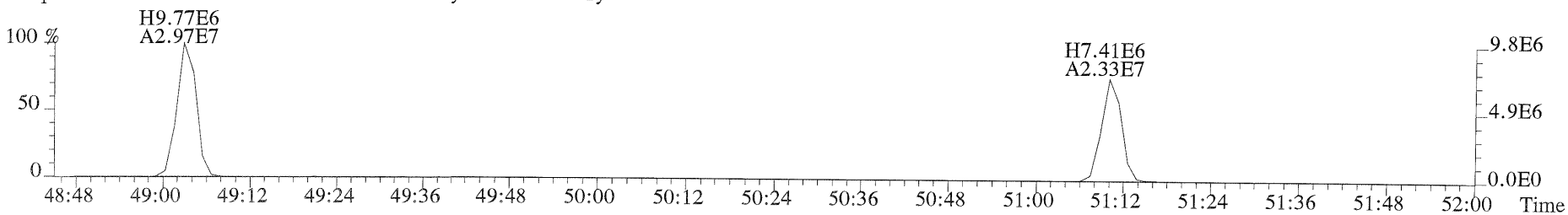
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



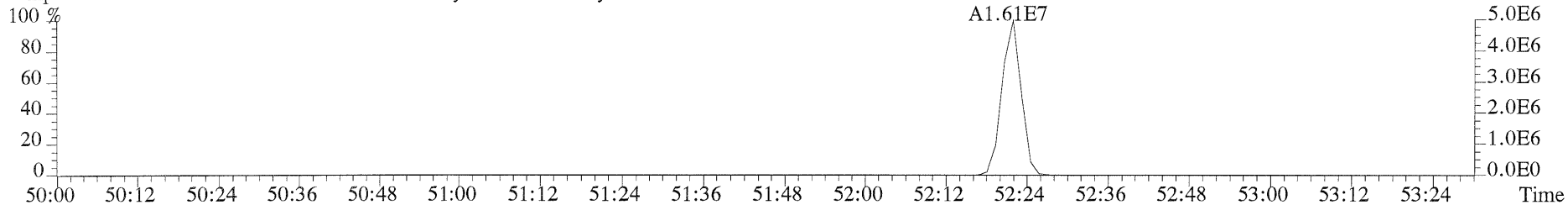
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



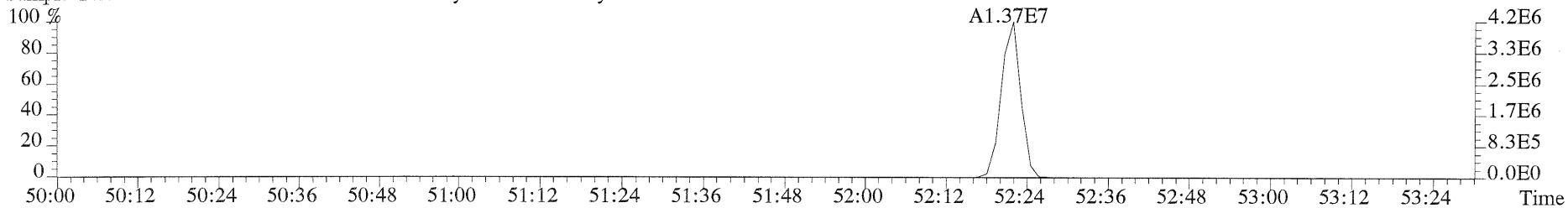
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



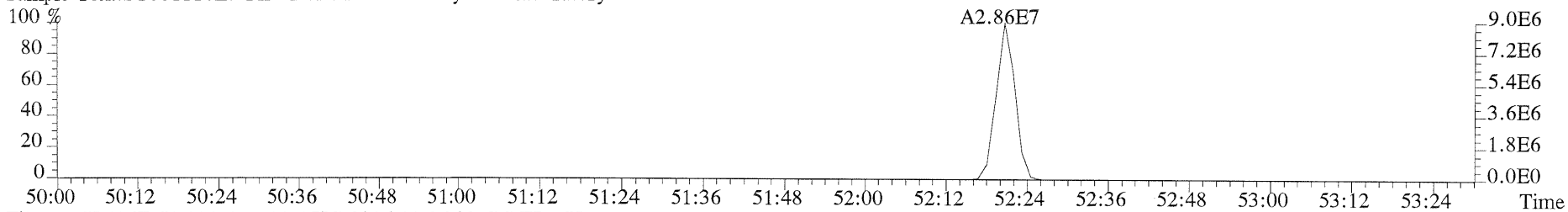
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



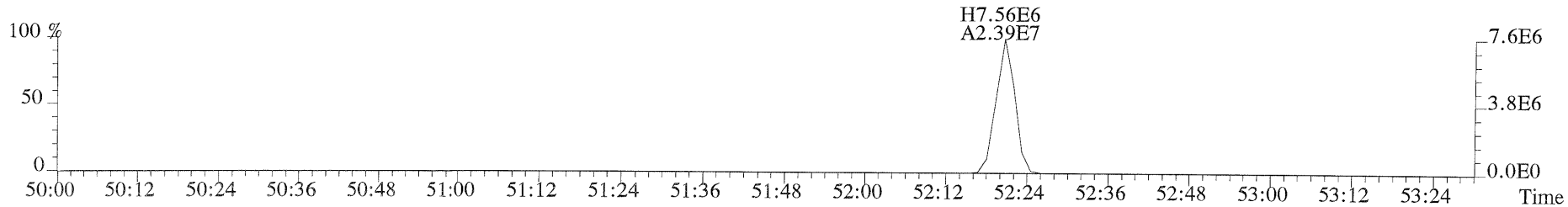
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



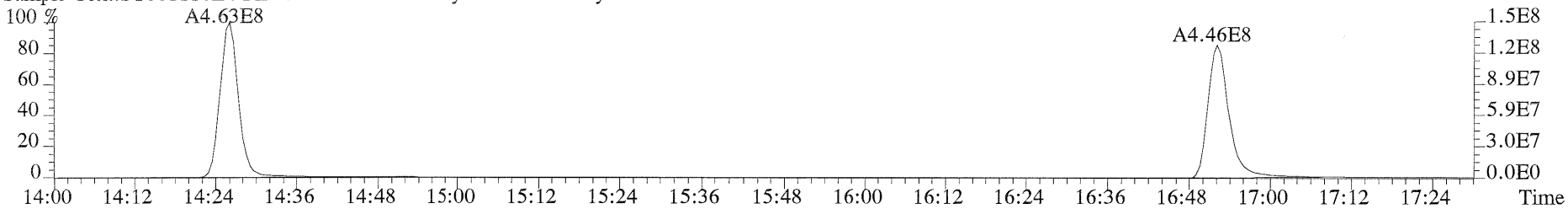
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



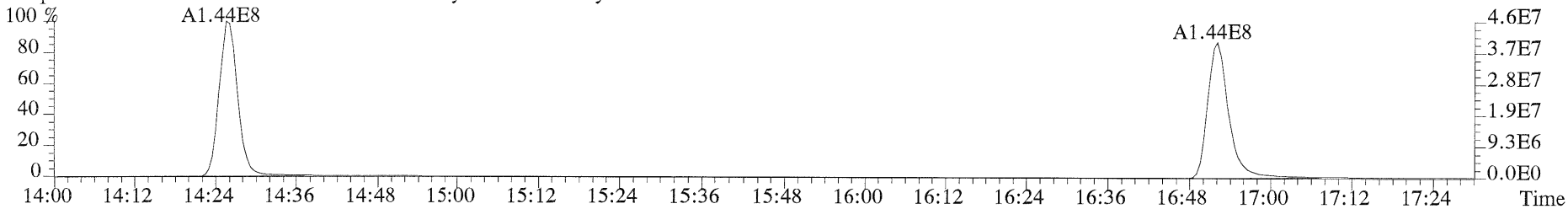
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



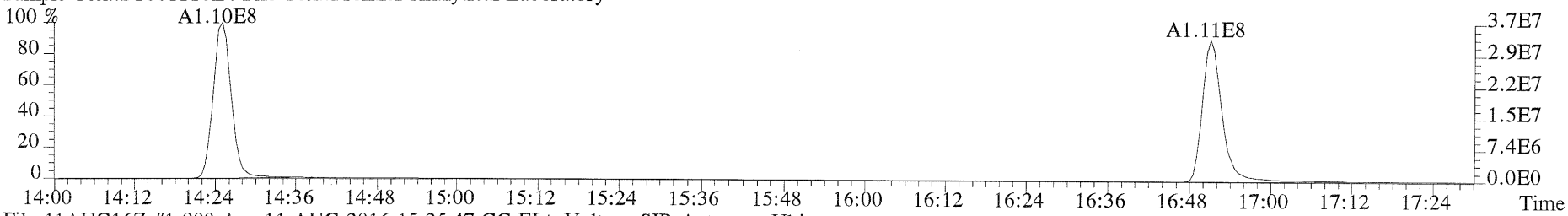
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



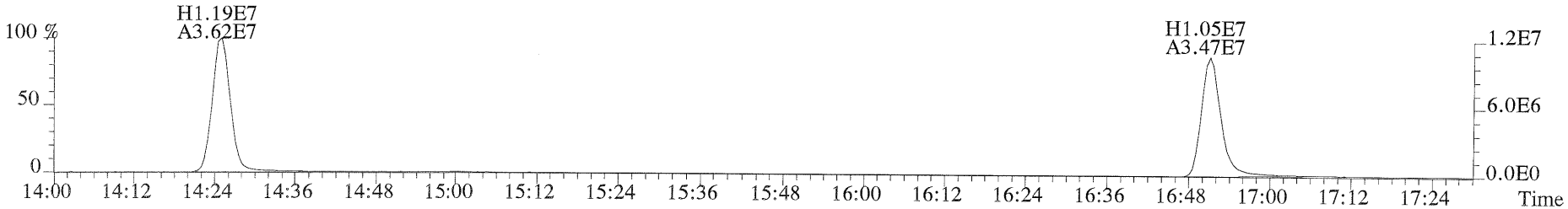
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



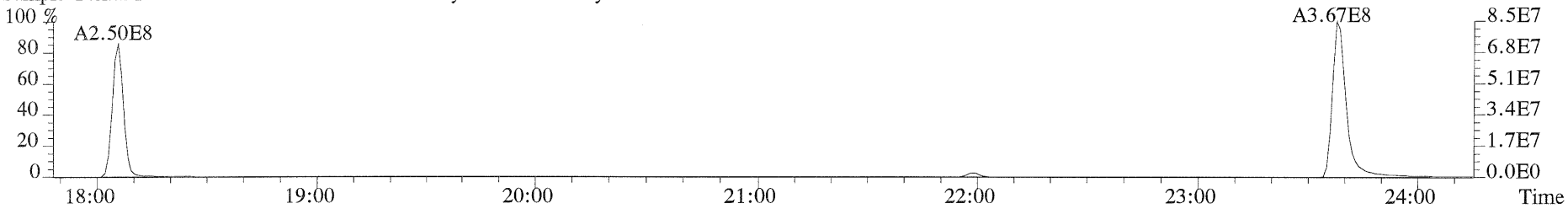
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



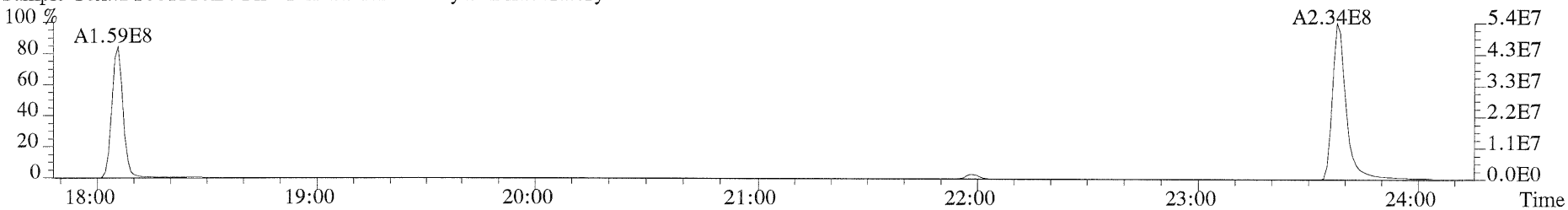
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



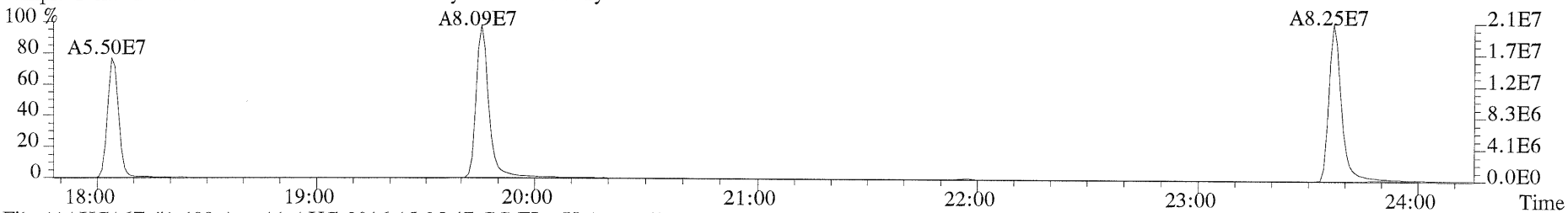
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



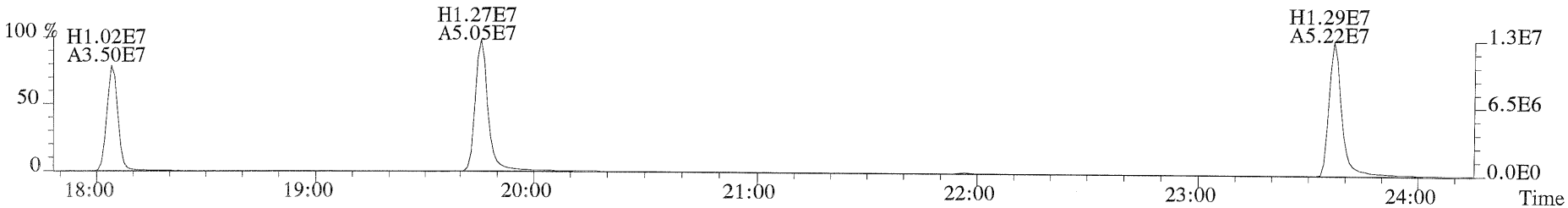
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



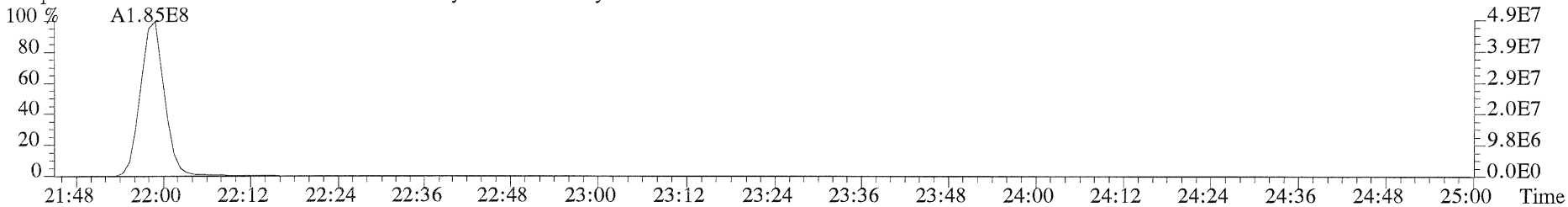
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



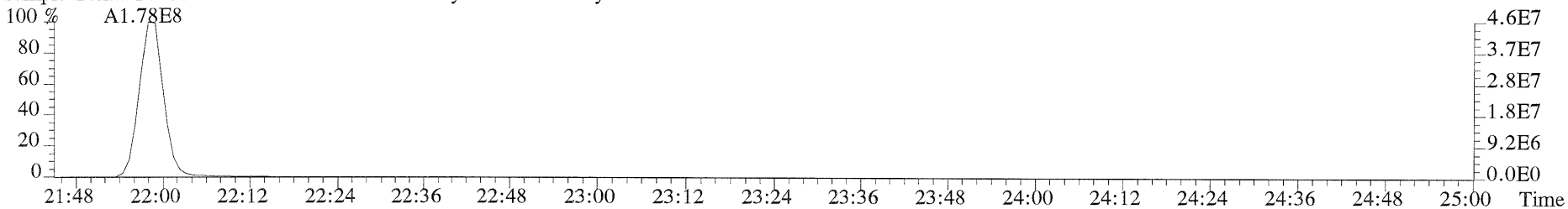
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



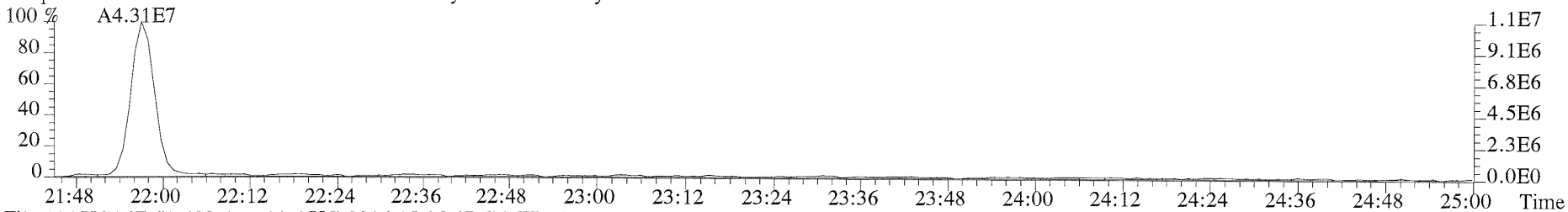
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



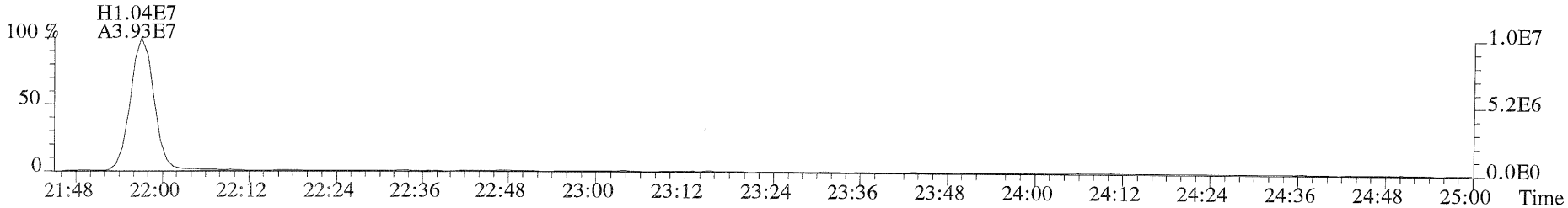
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



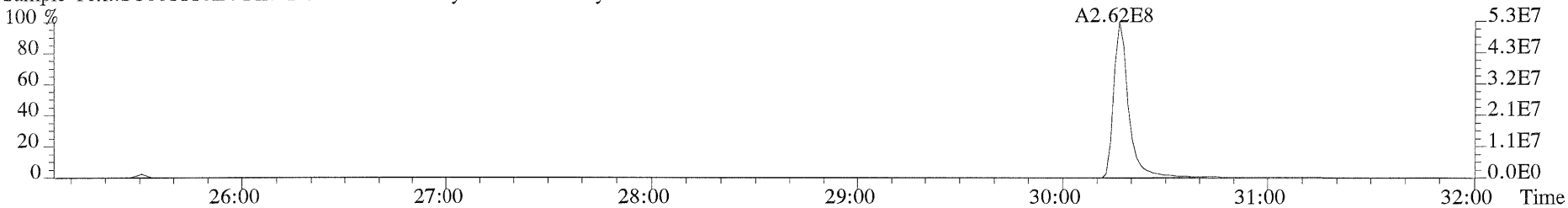
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



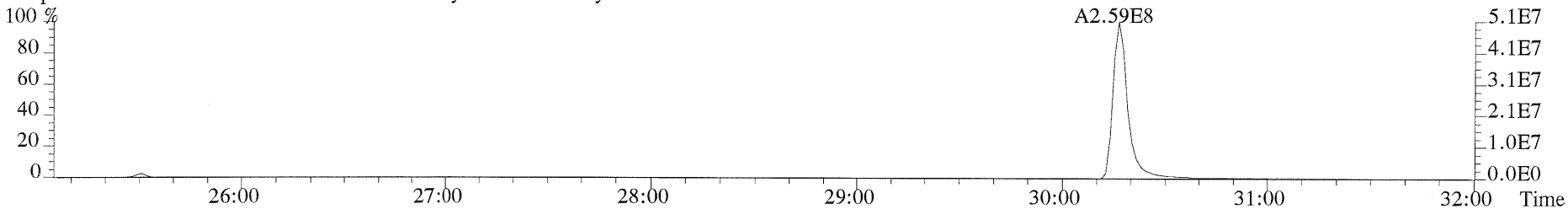
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



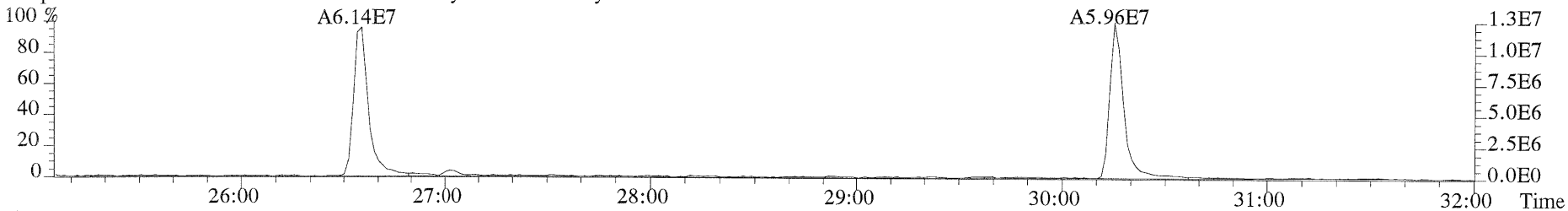
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



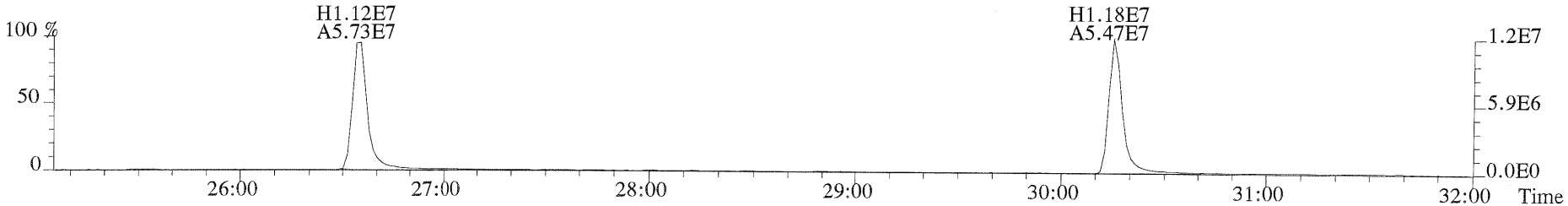
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



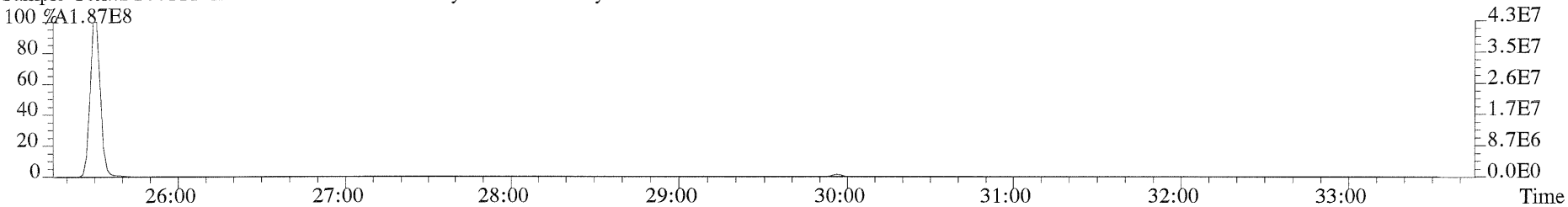
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



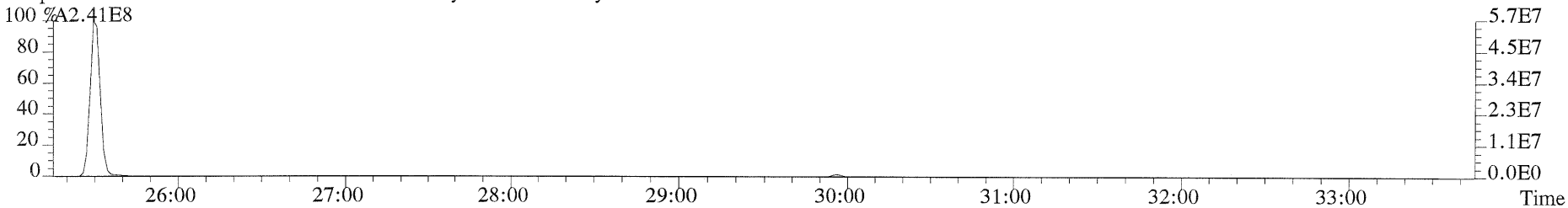
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



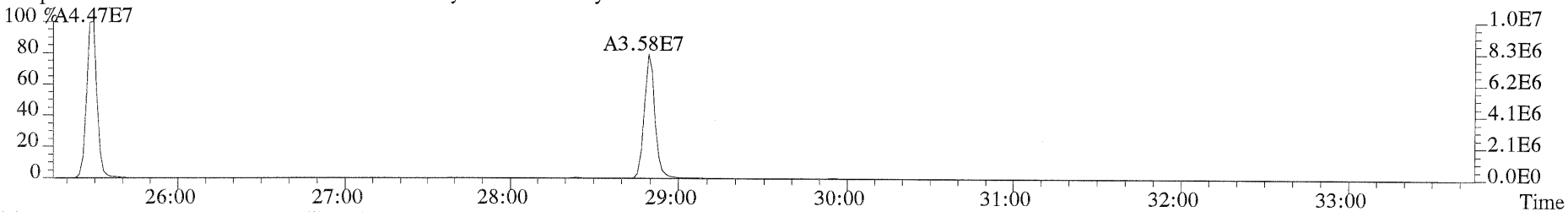
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



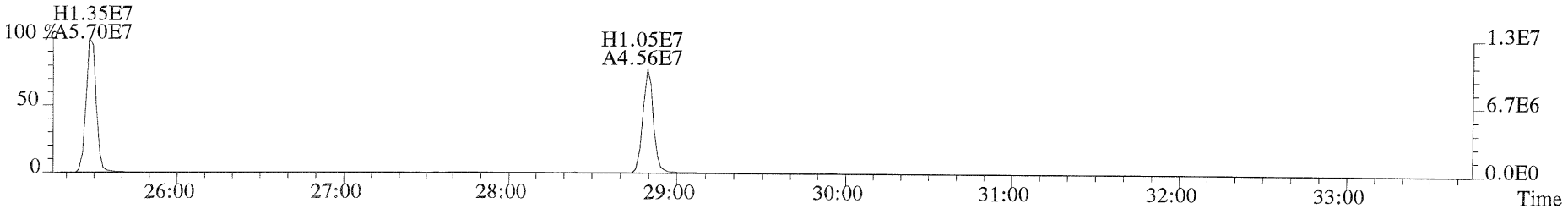
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



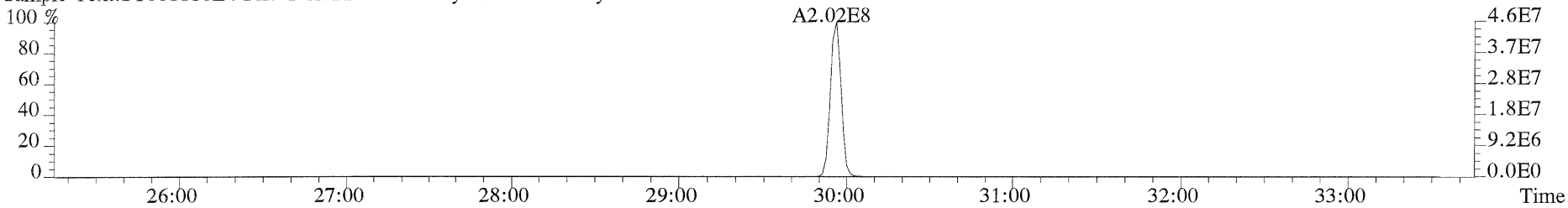
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



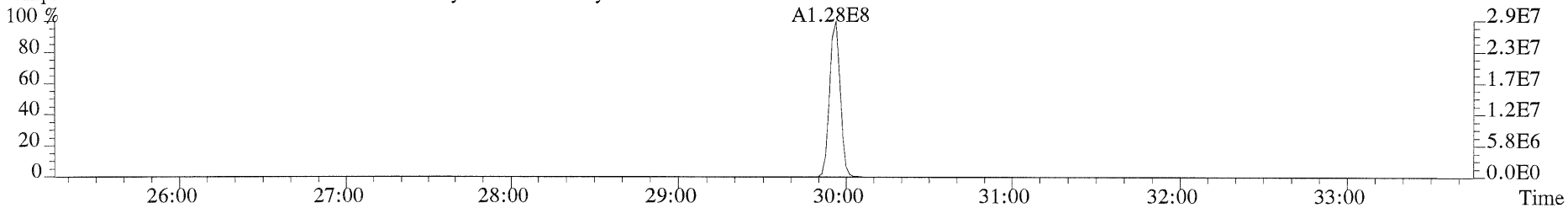
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



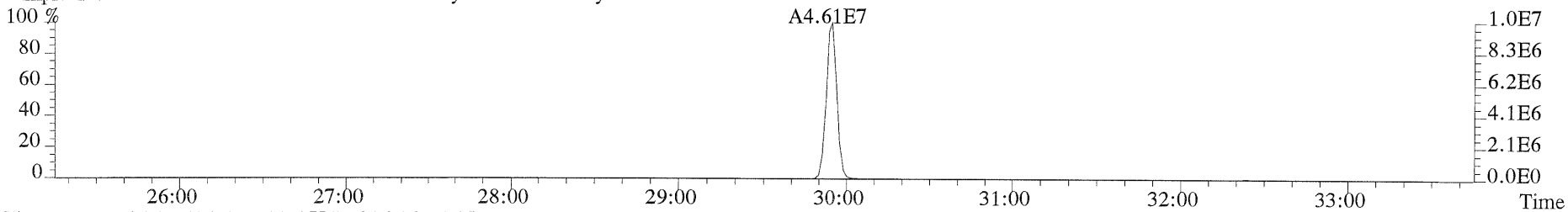
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



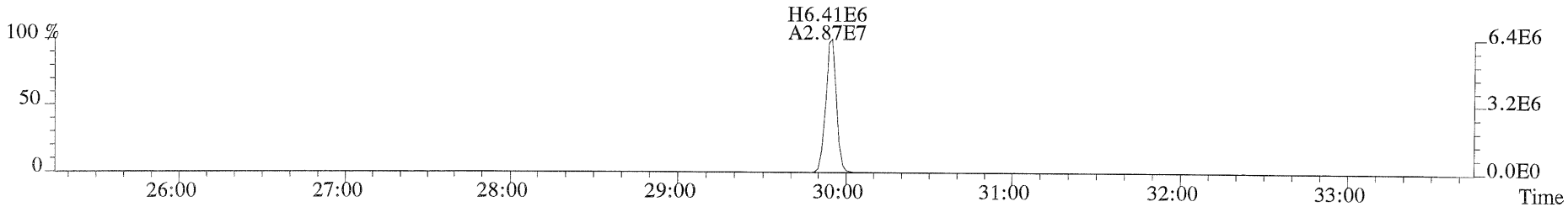
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 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:ST081116Z4 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 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:ST081116Z4 File Text:Frontier Analytical Laboratory



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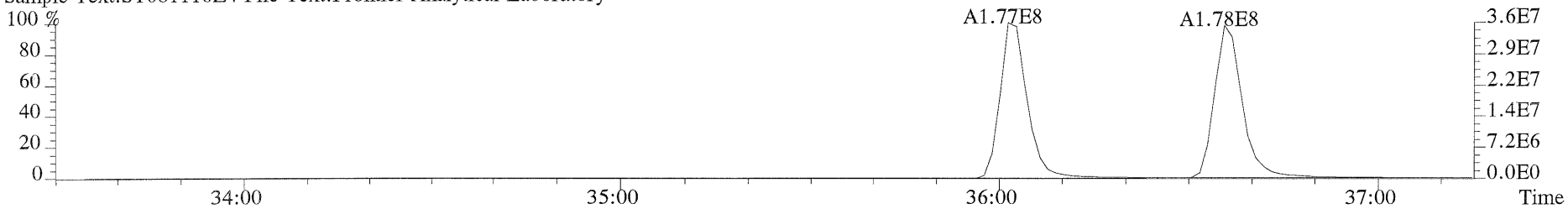
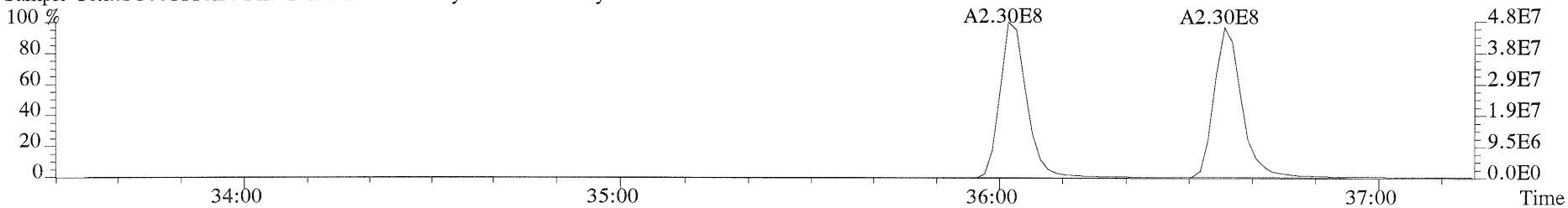
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



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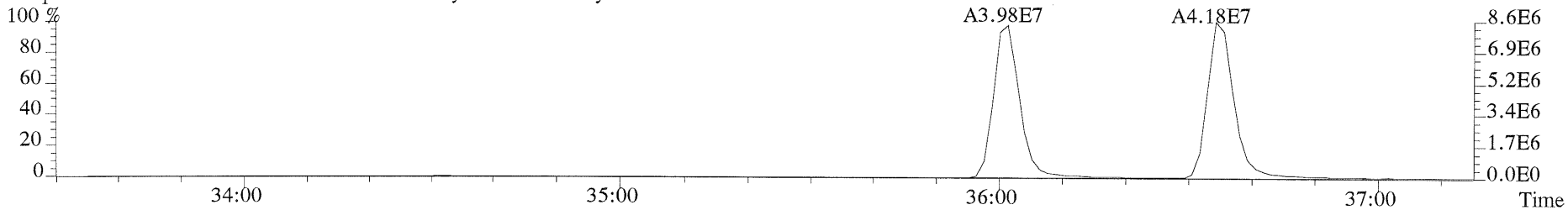
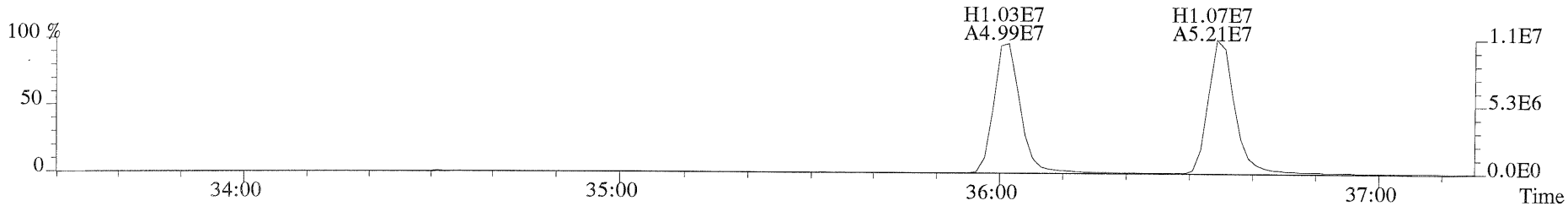
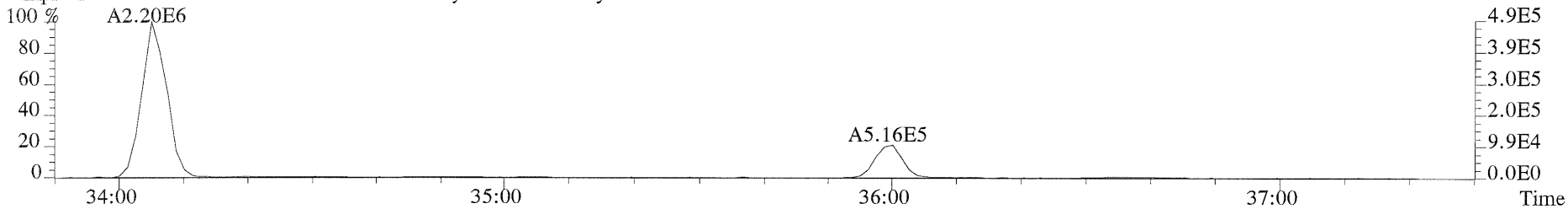
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



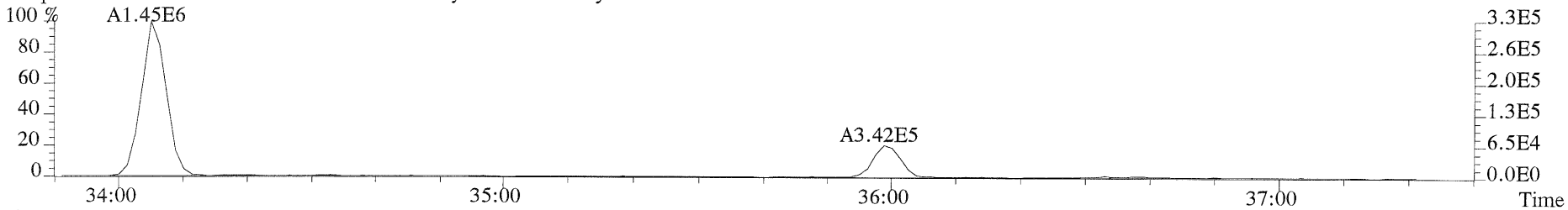
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



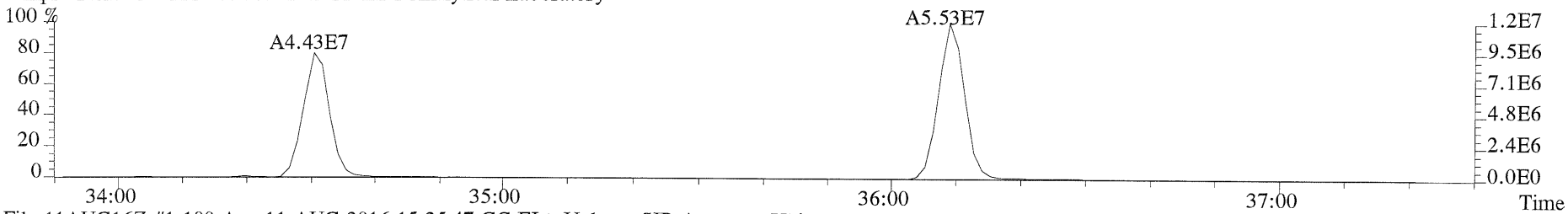
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



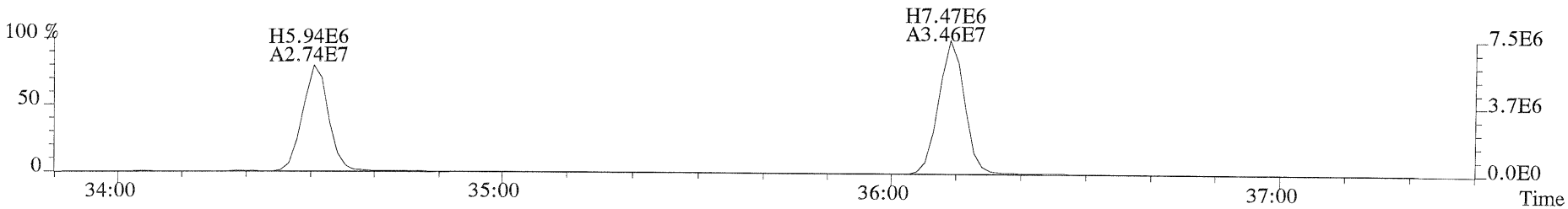
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



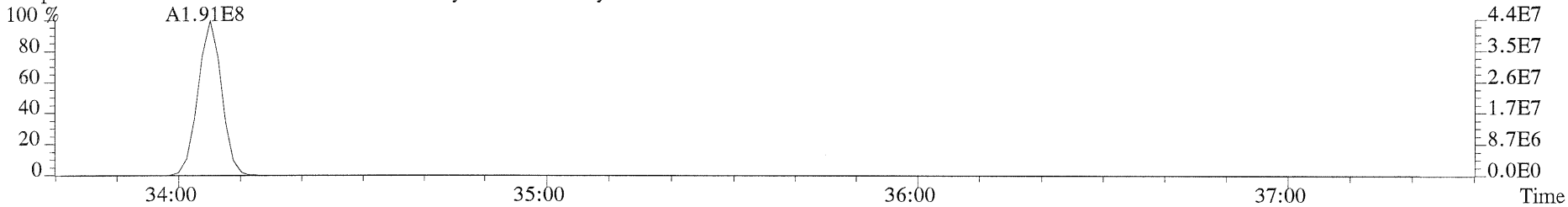
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



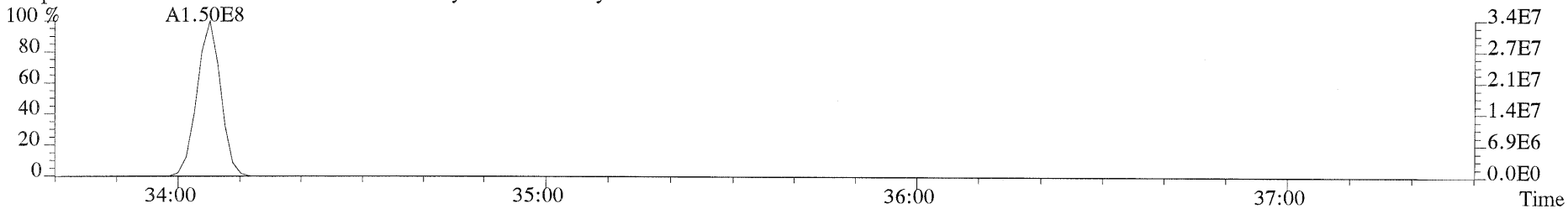
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



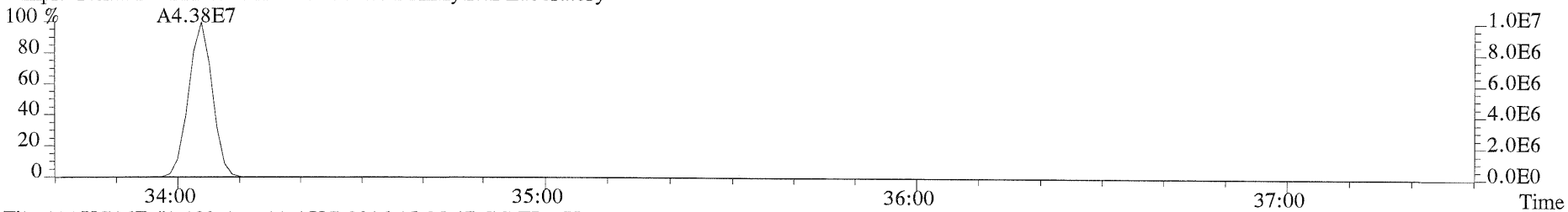
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



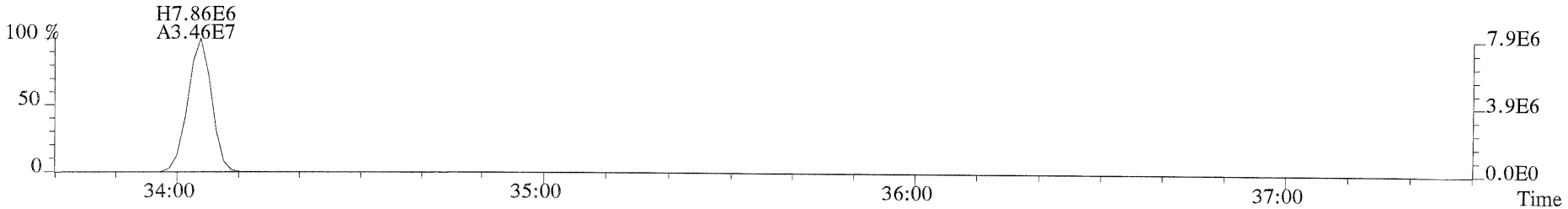
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



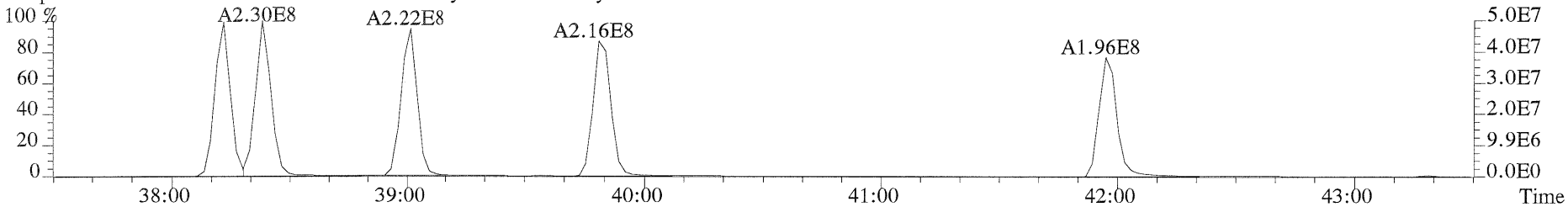
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



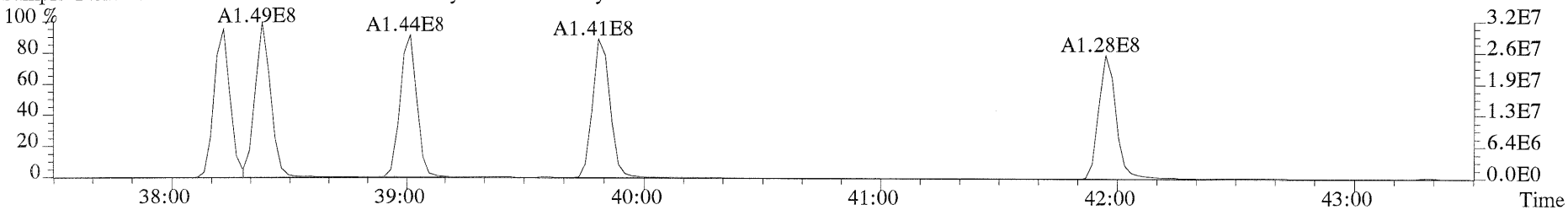
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



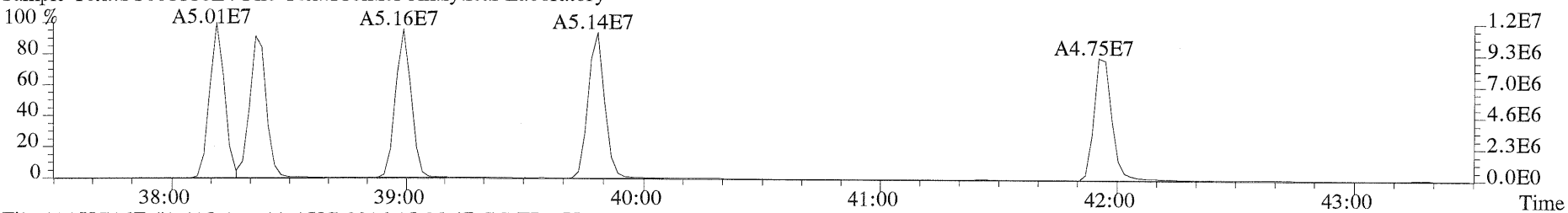
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 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:ST081116Z4 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 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:ST081116Z4 File Text:Frontier Analytical Laboratory



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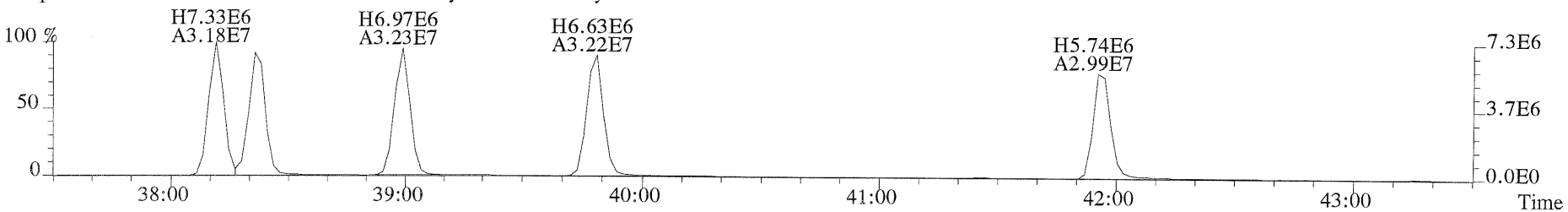
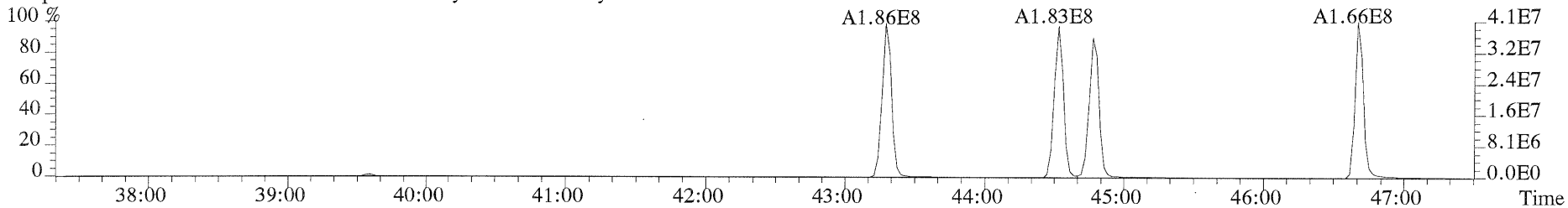
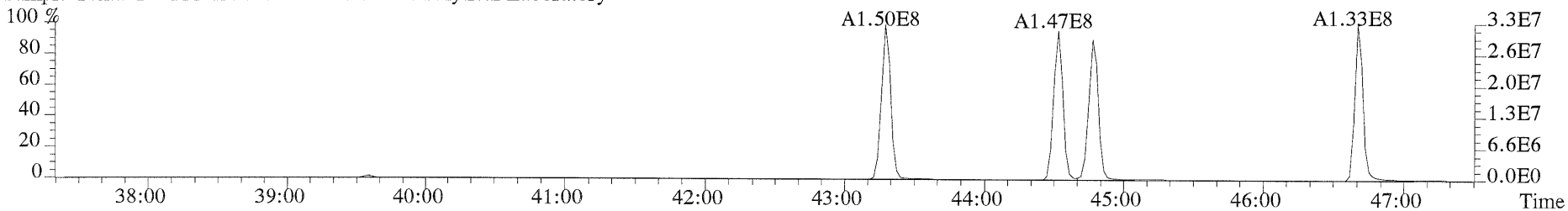
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



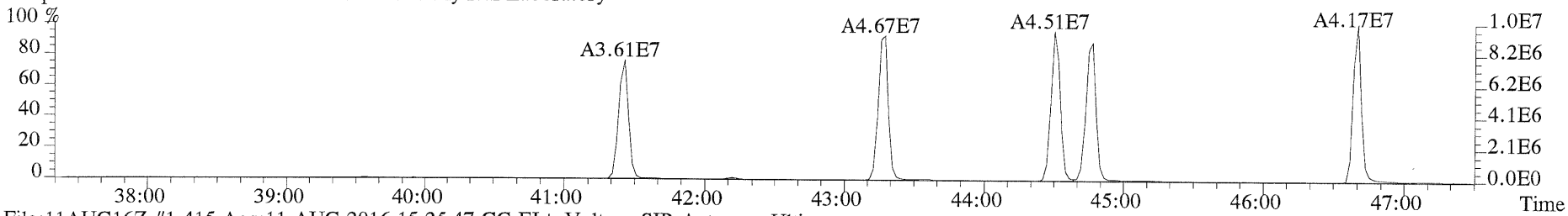
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



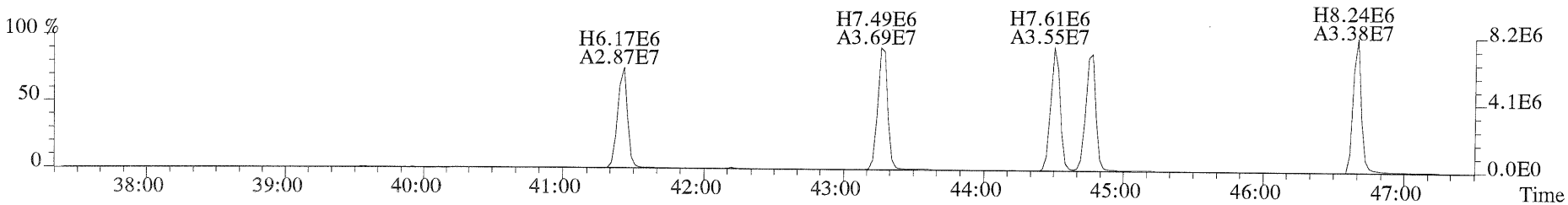
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



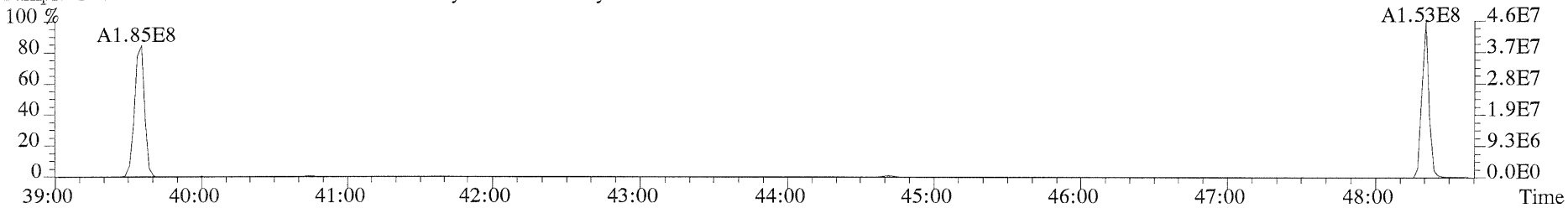
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



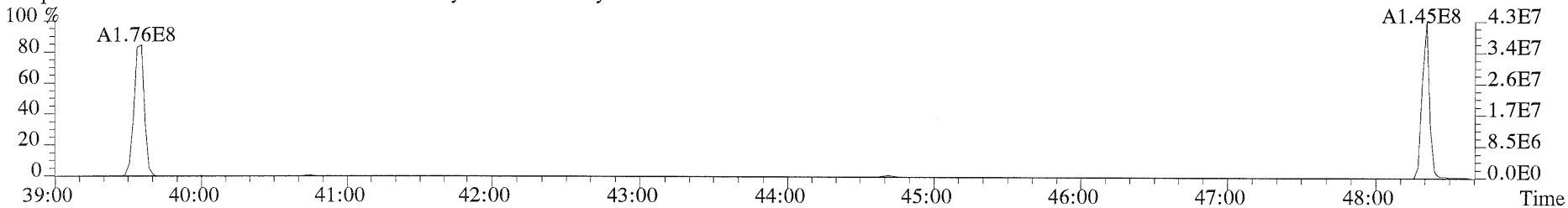
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



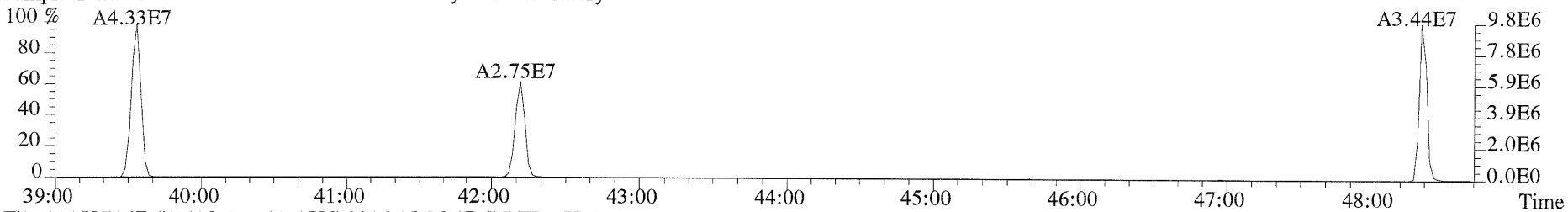
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



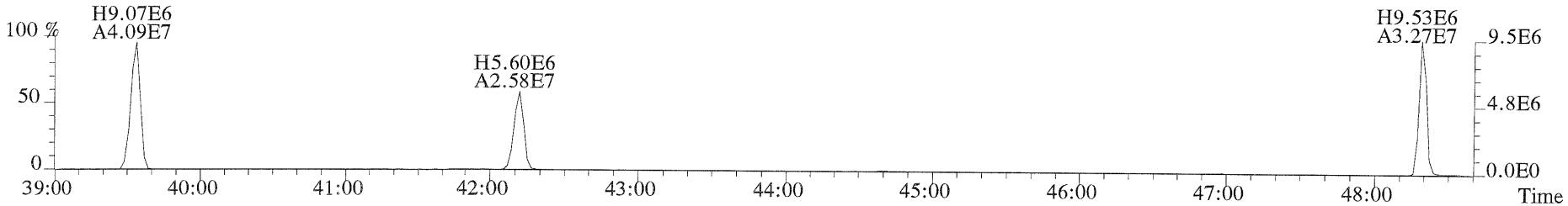
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



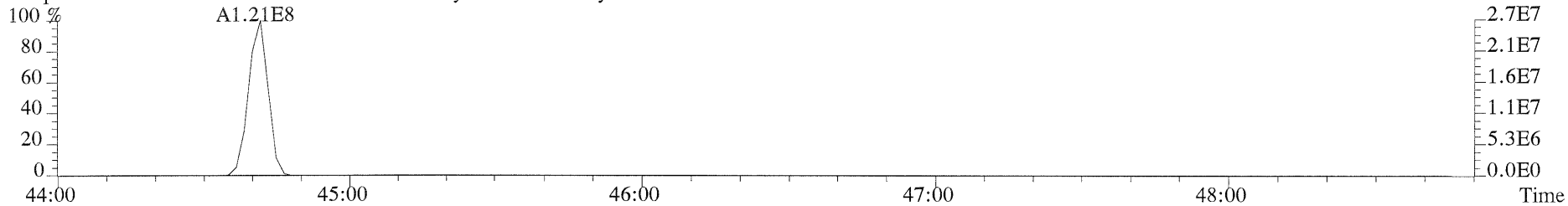
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



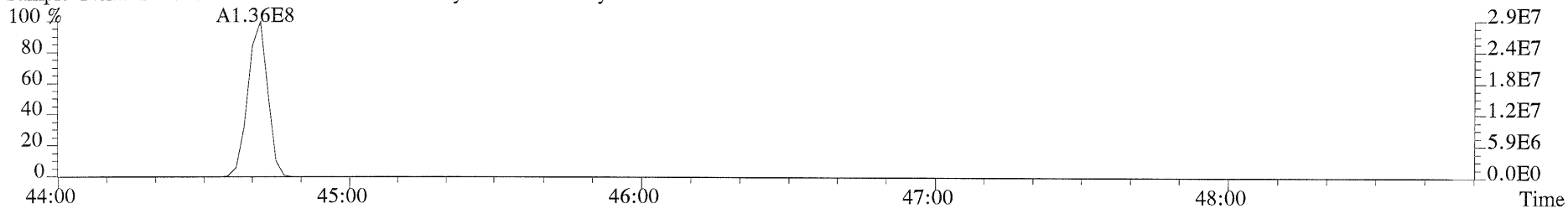
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



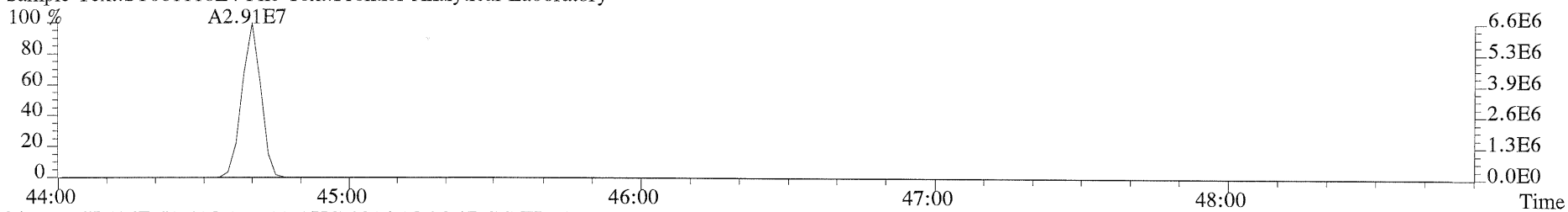
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



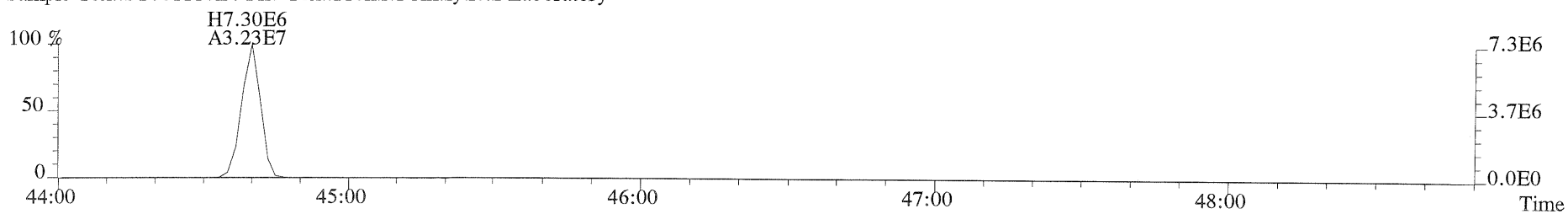
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



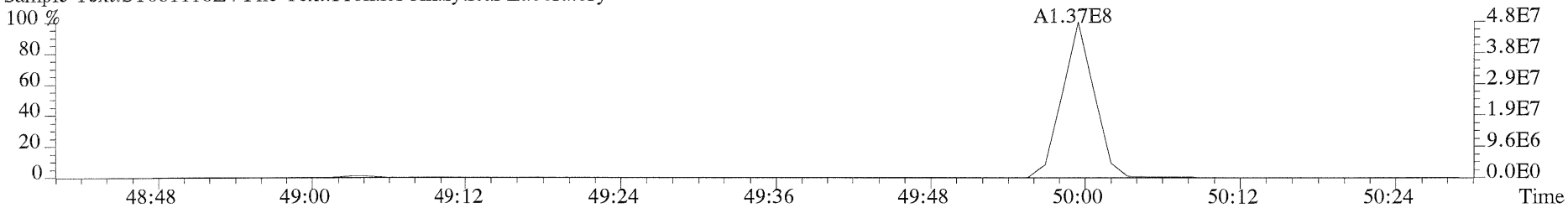
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



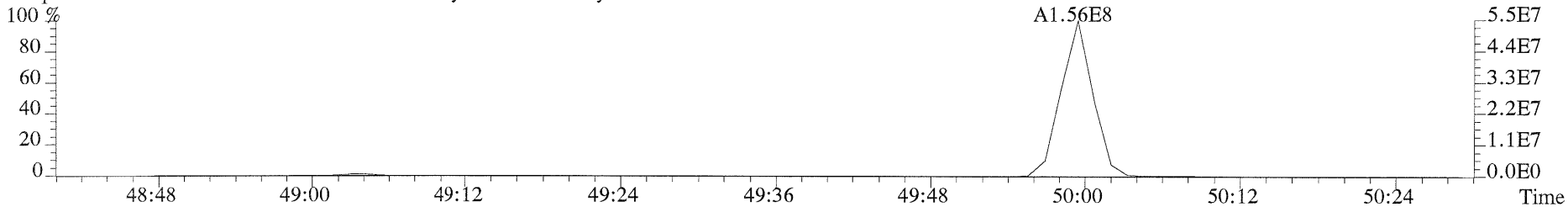
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



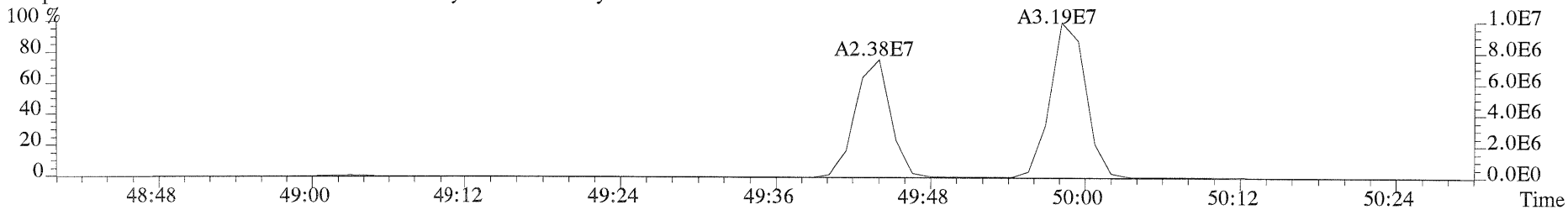
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



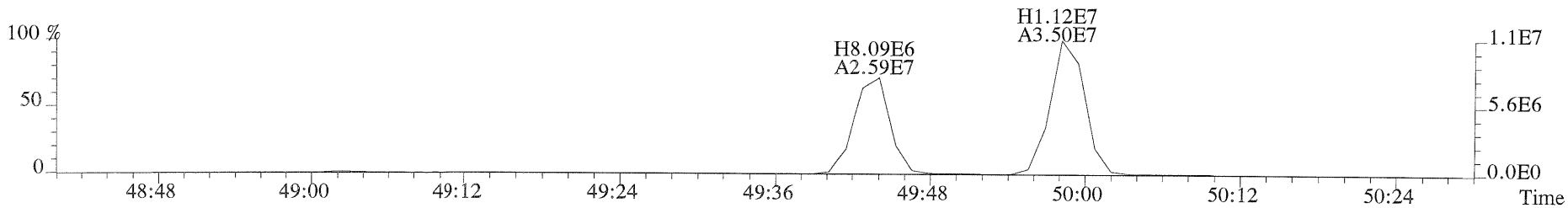
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



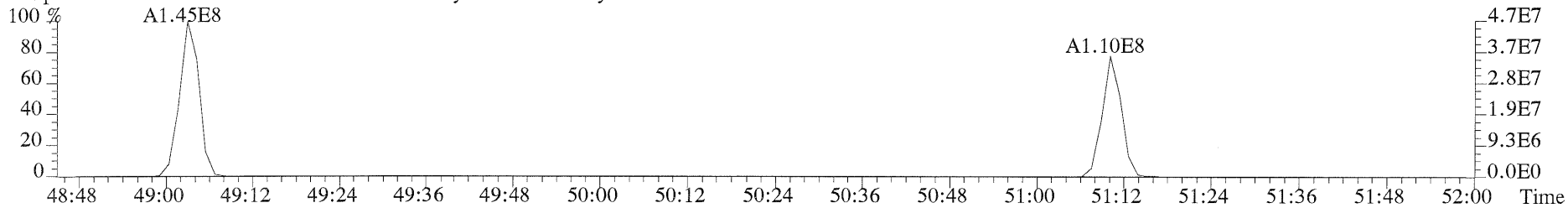
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



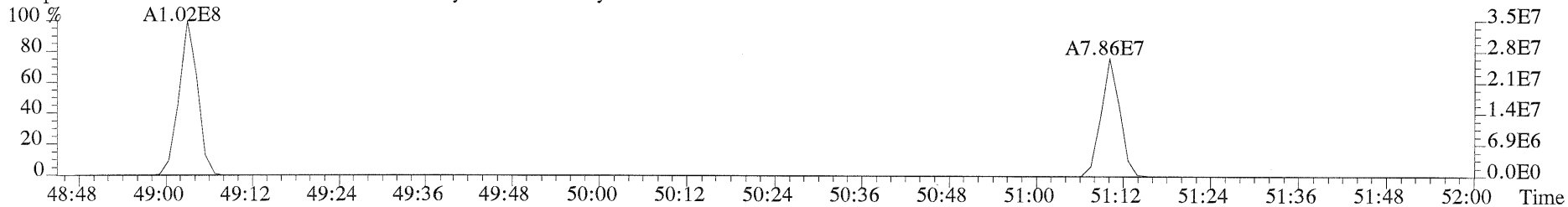
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



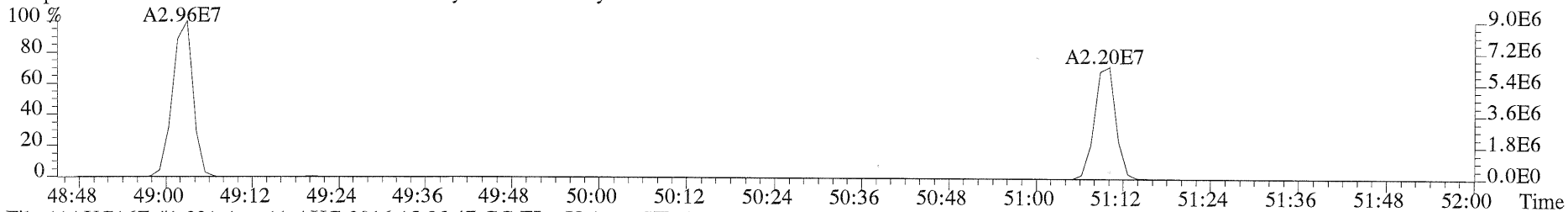
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



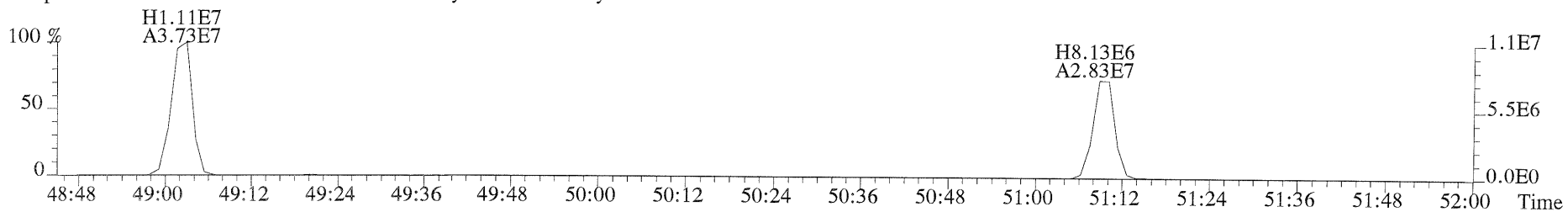
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



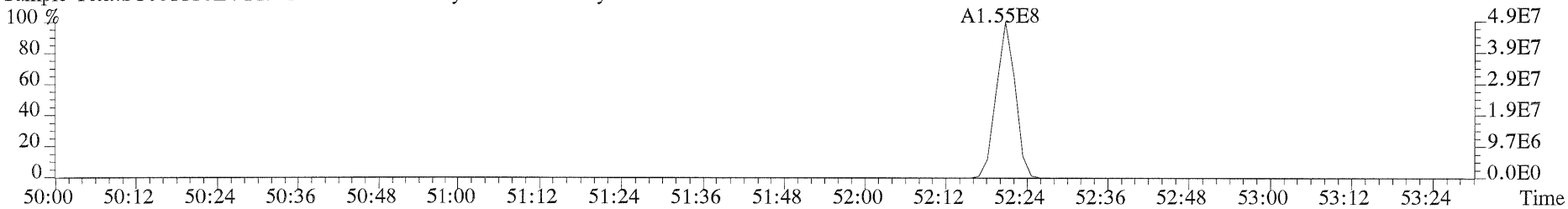
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



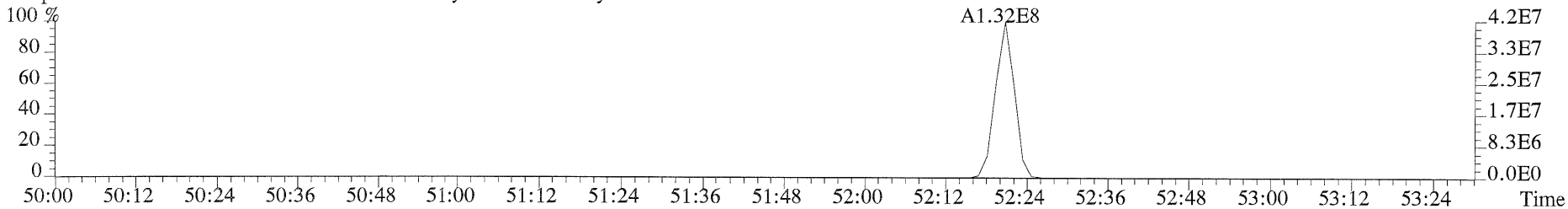
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



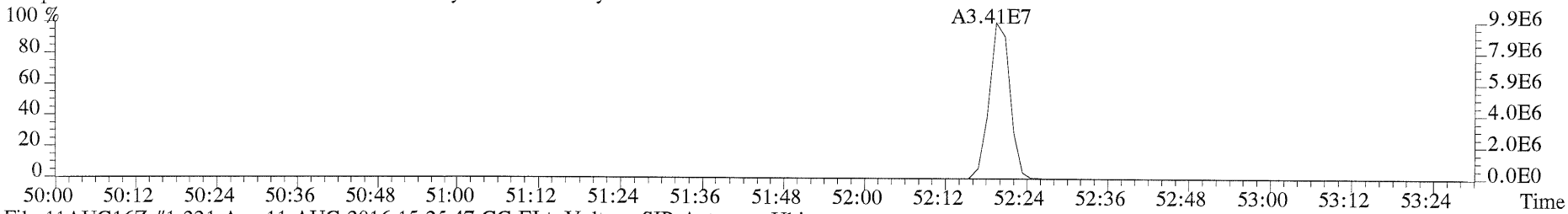
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



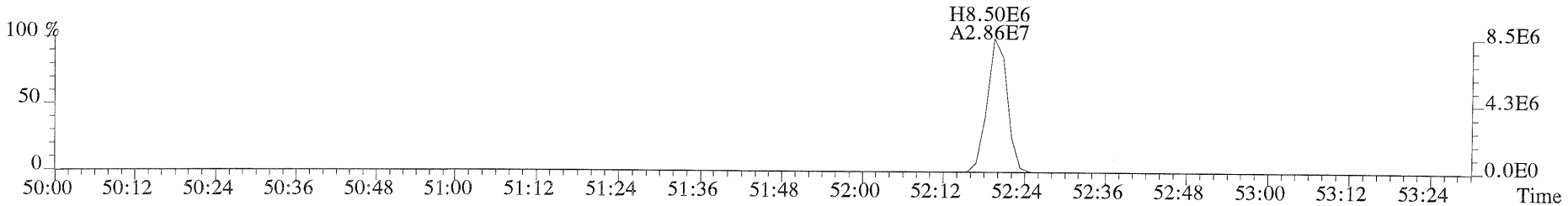
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



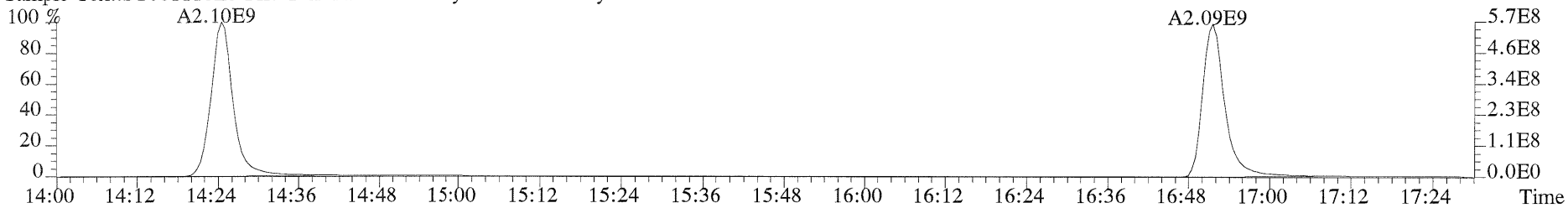
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



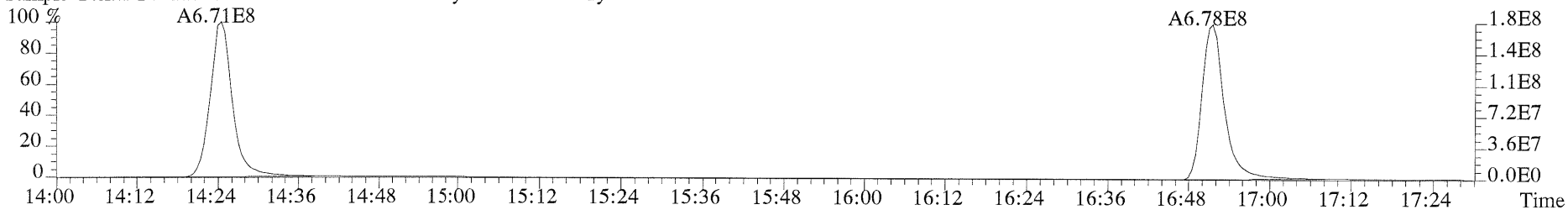
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



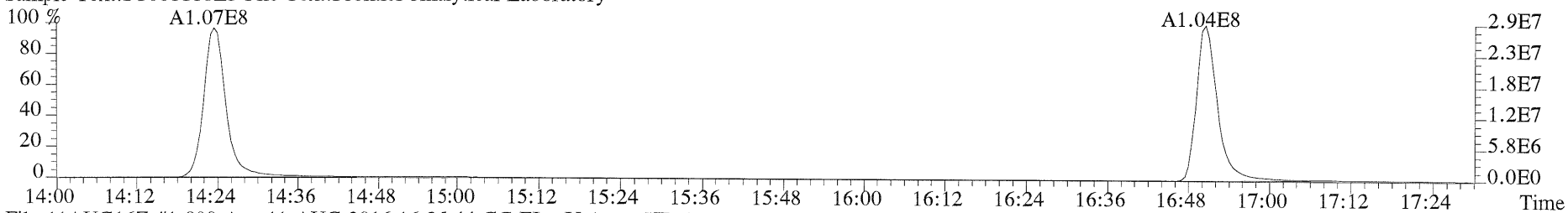
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



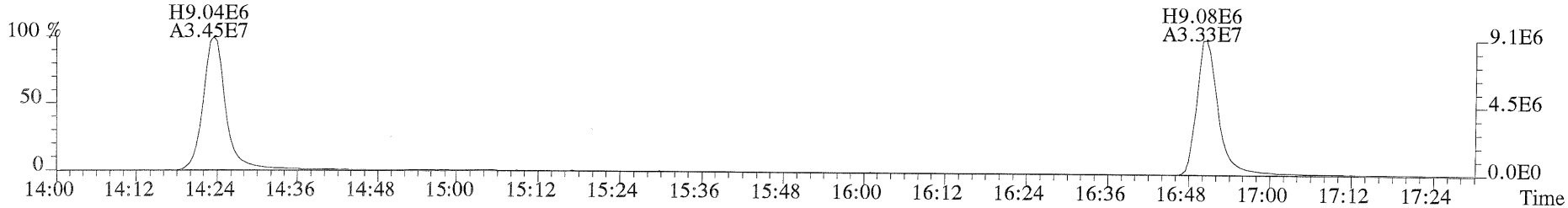
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



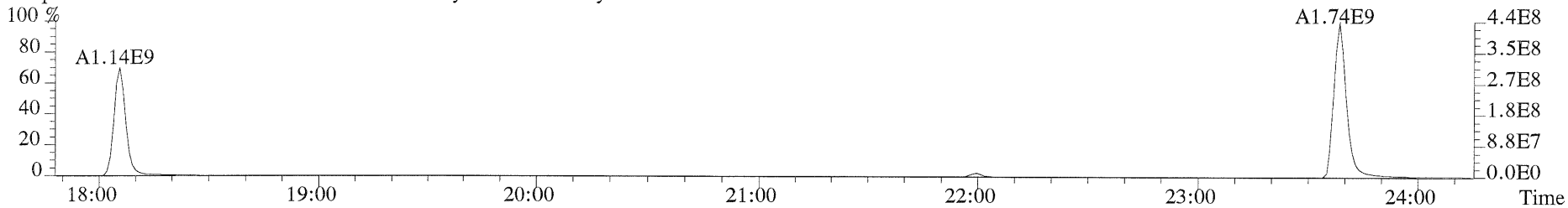
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



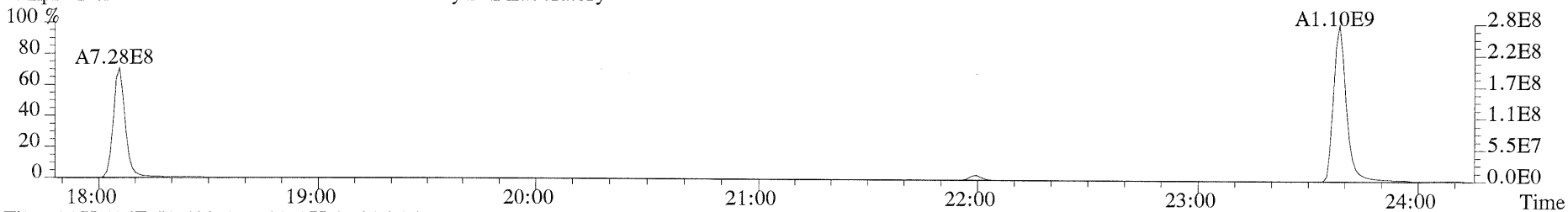
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



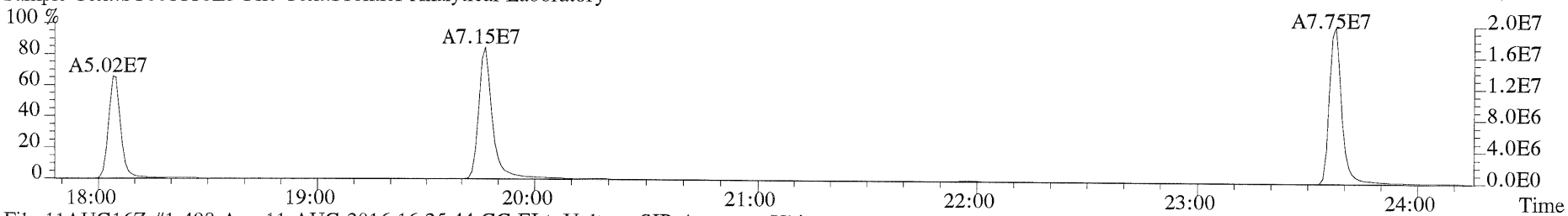
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



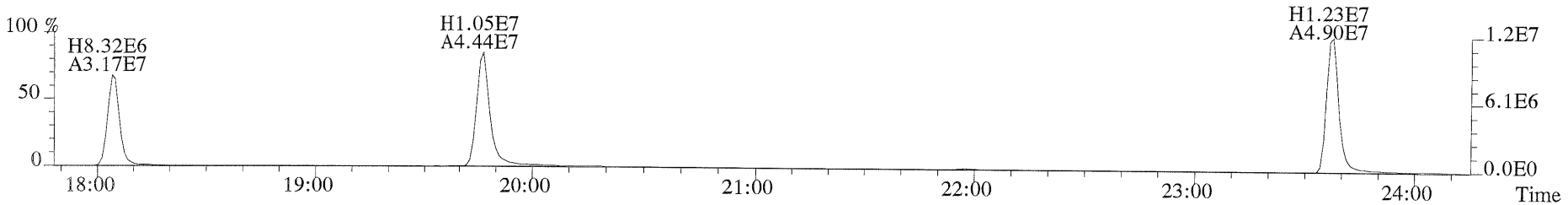
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



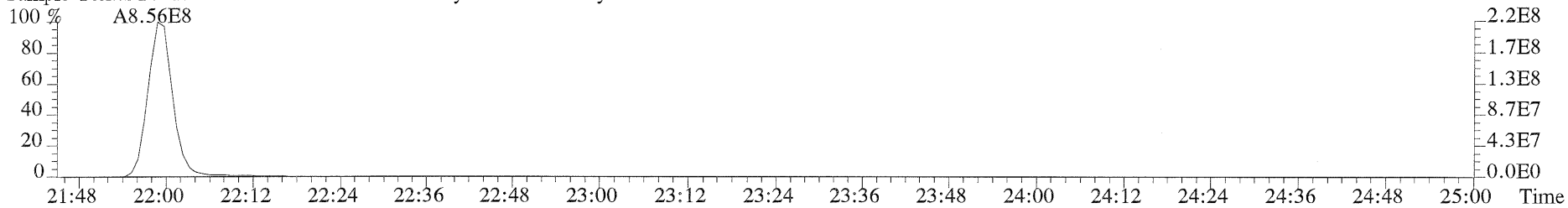
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



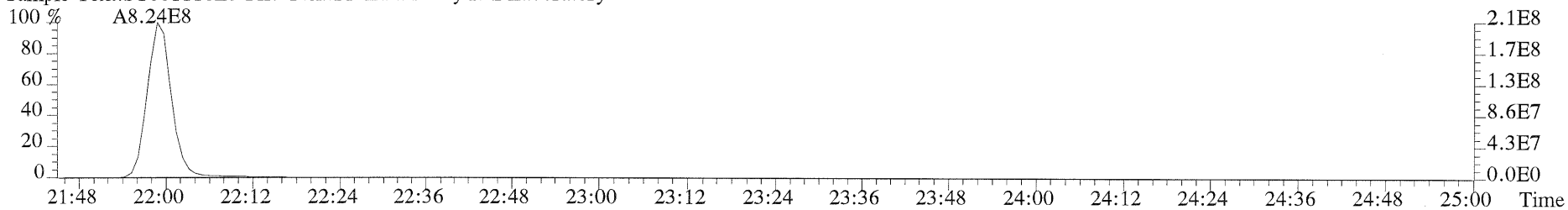
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



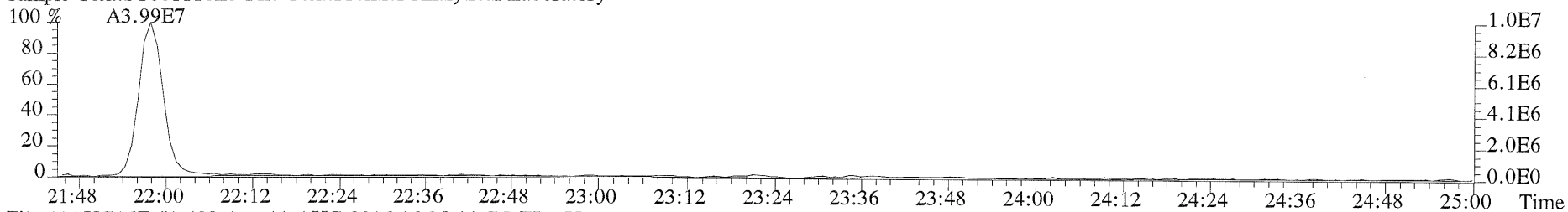
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



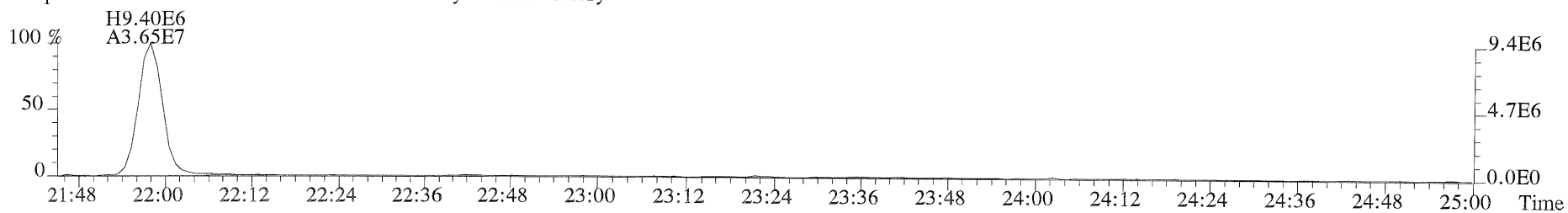
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



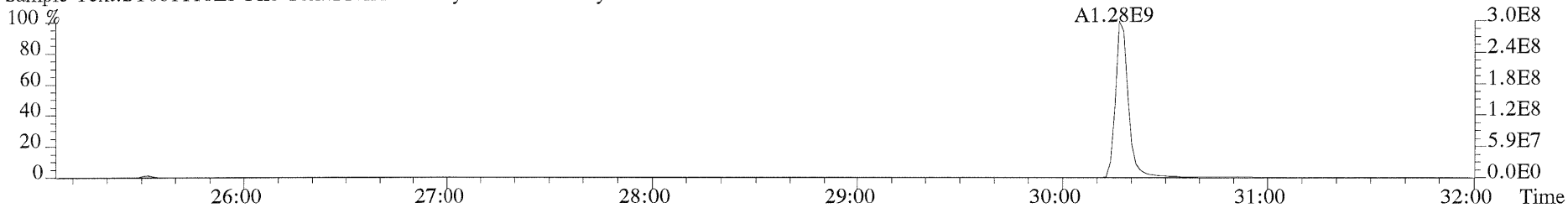
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



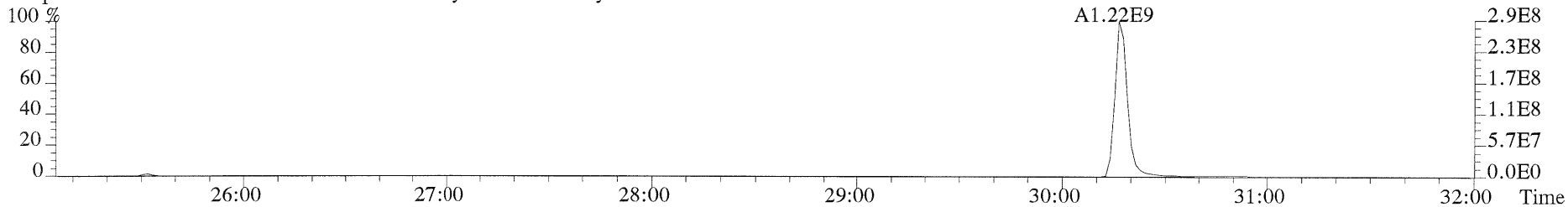
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



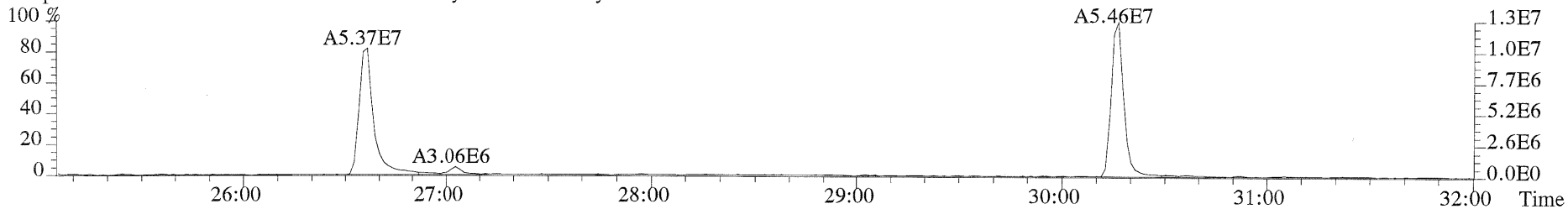
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



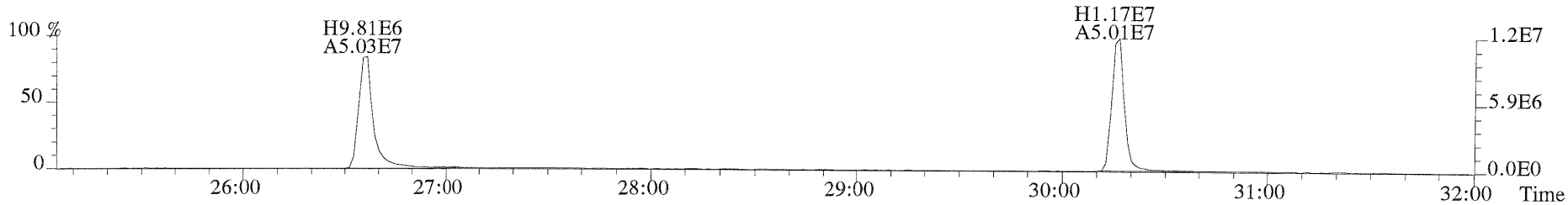
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



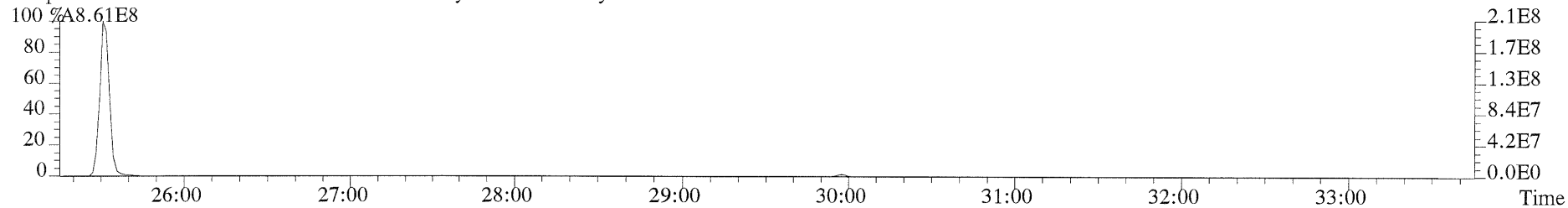
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



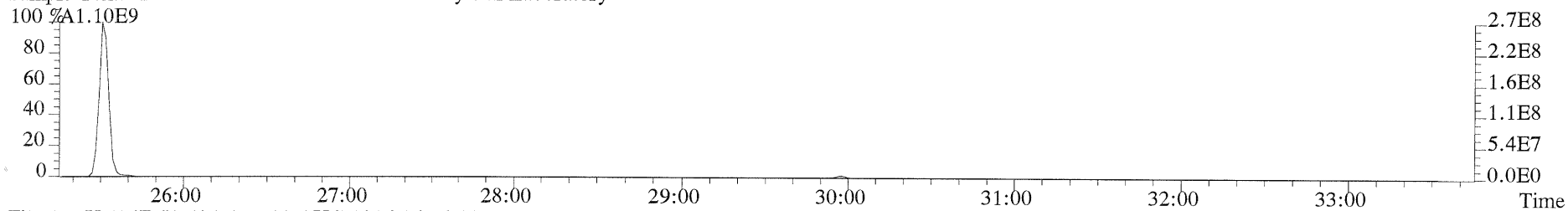
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



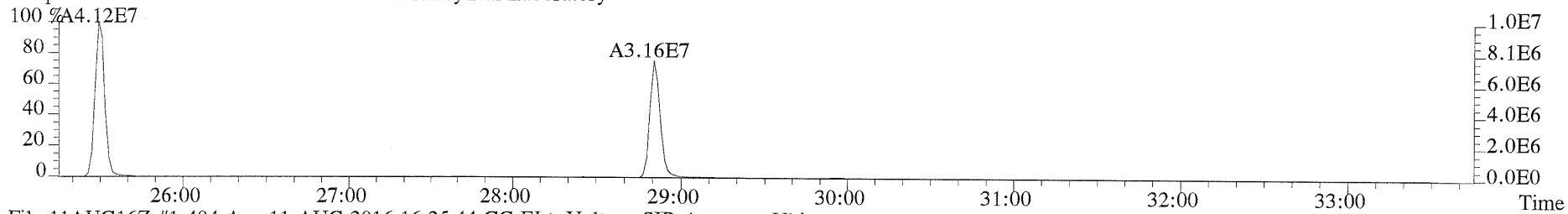
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



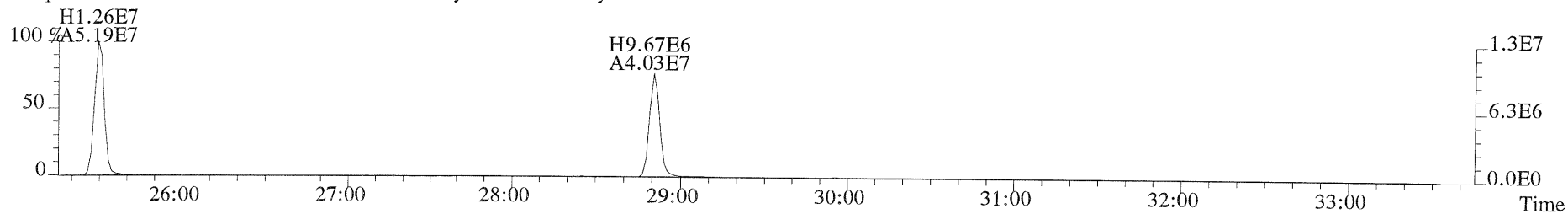
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



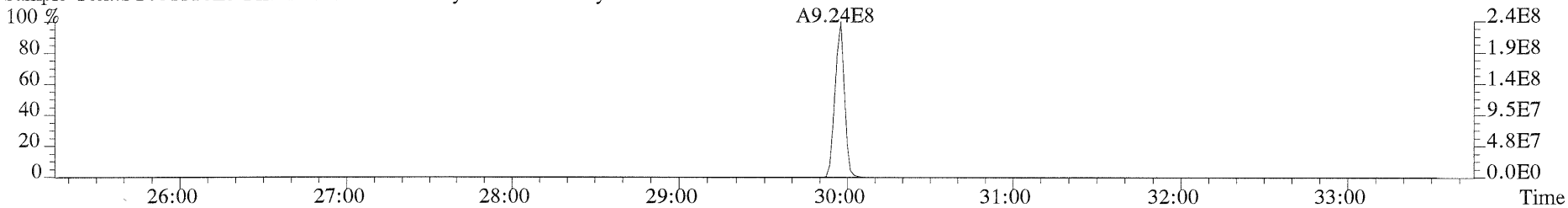
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



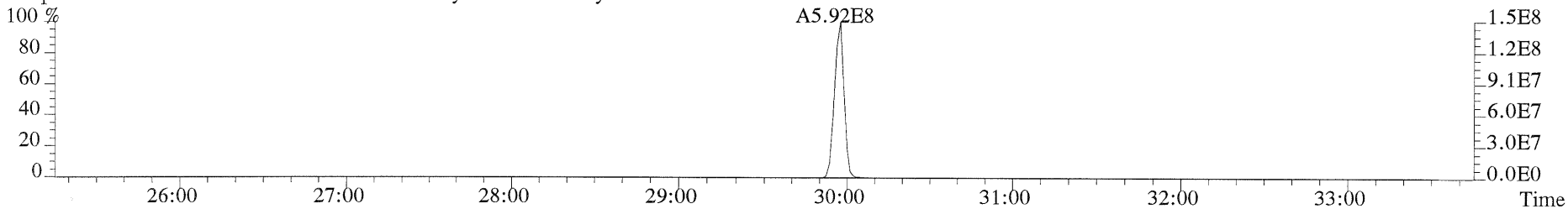
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



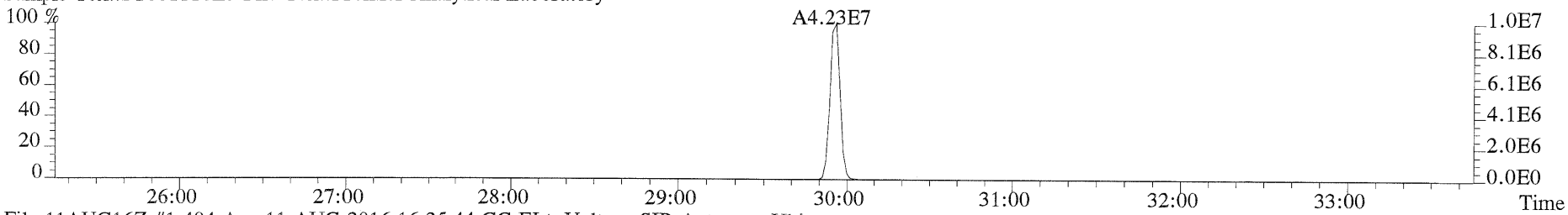
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



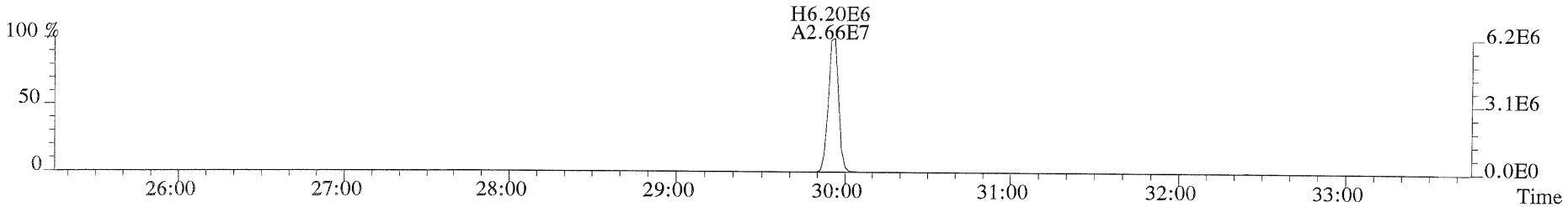
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



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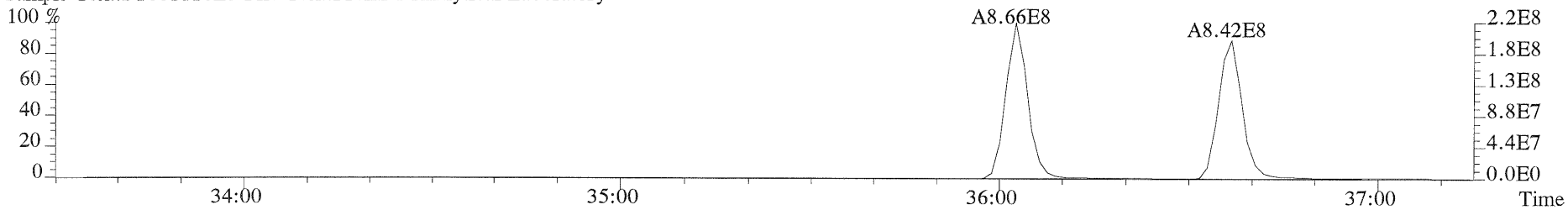
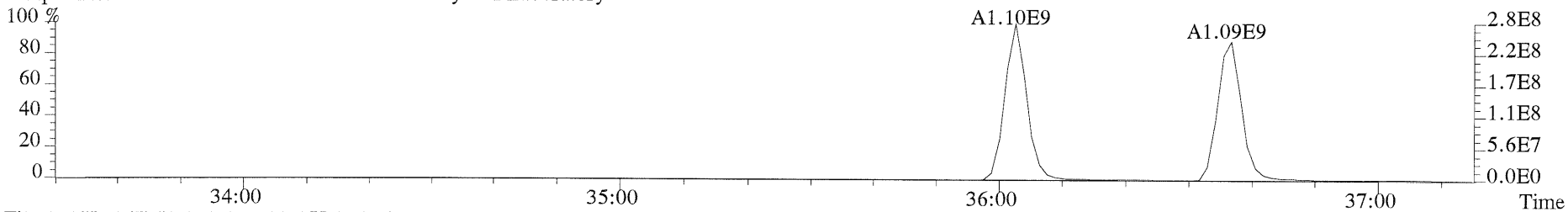
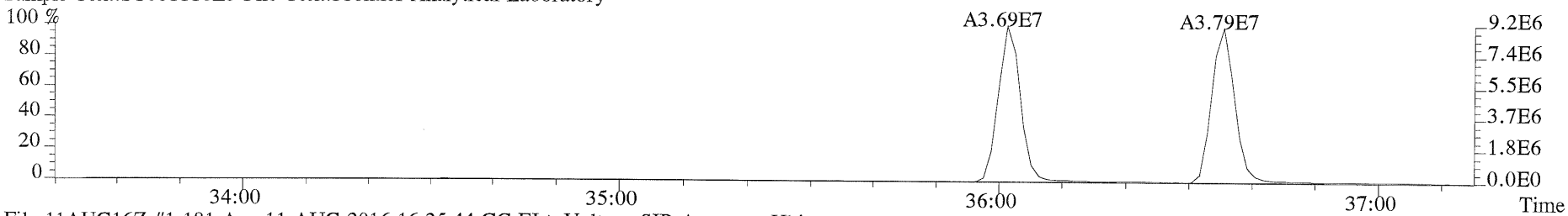
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



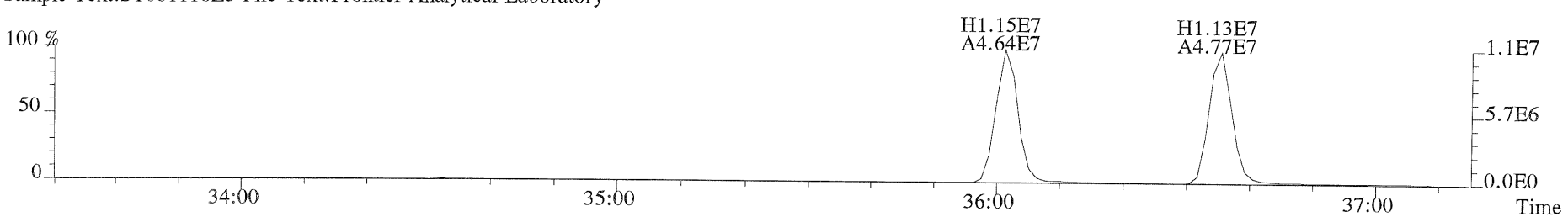
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



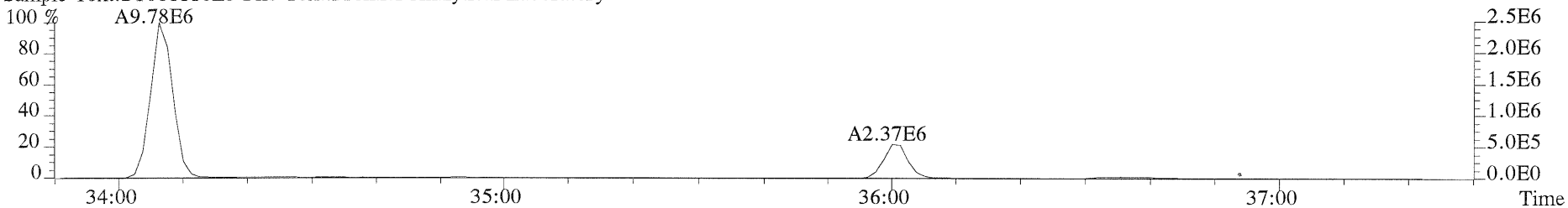
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



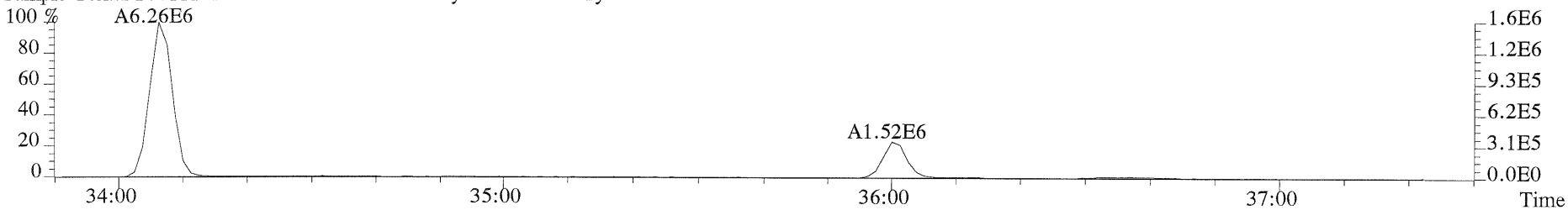
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



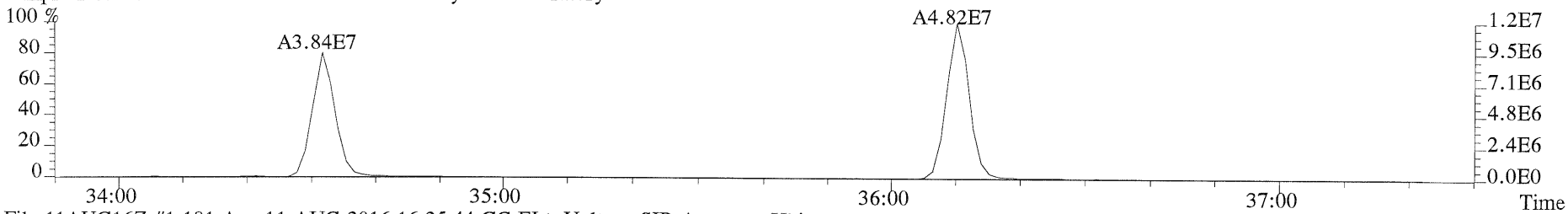
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



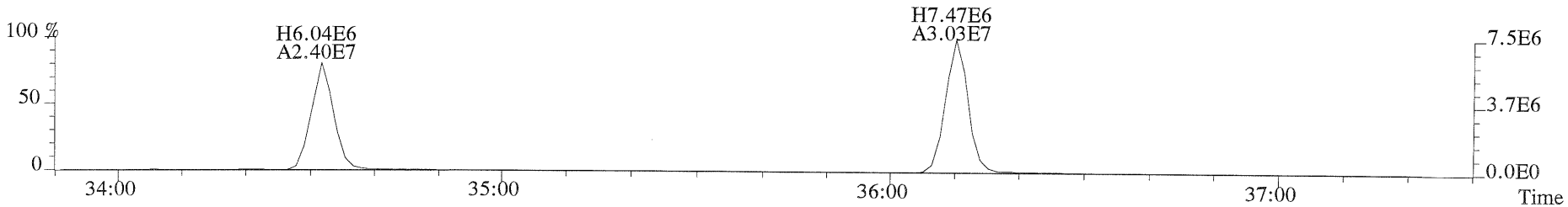
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



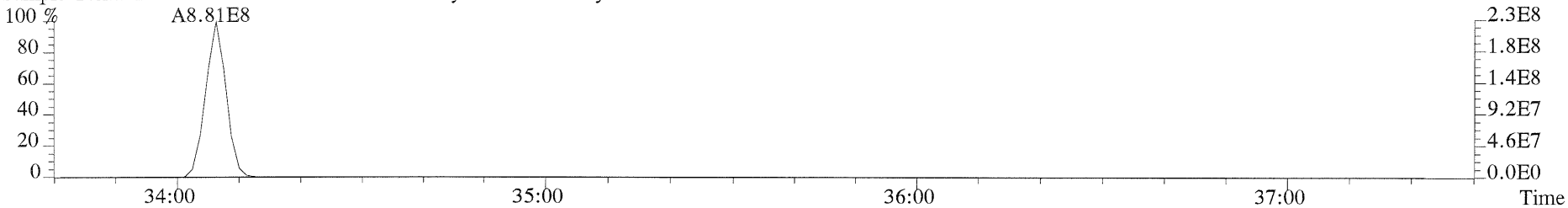
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



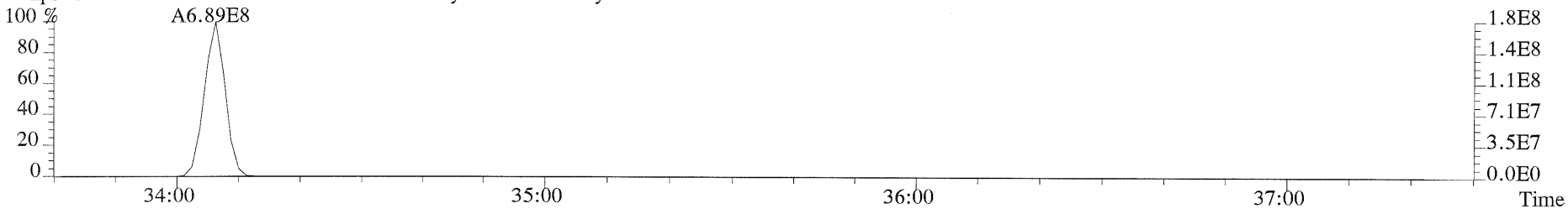
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



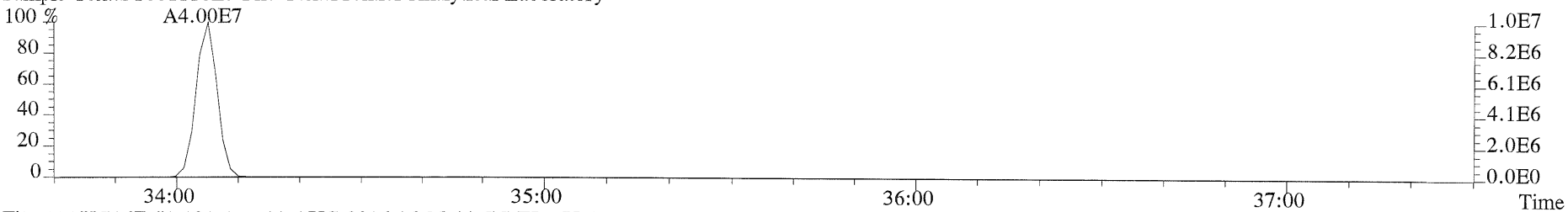
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



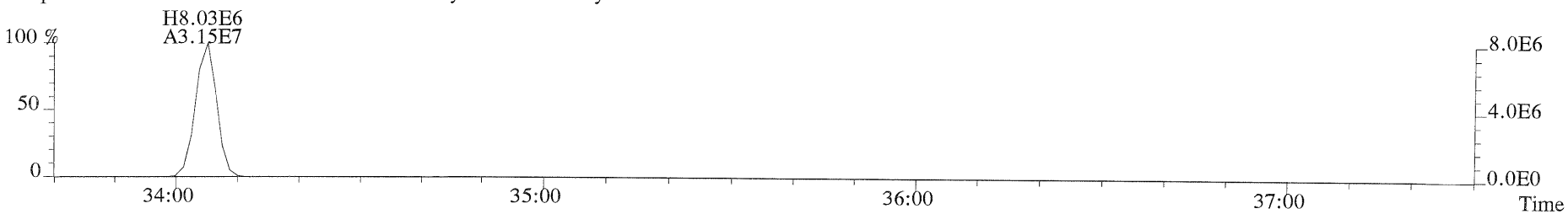
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



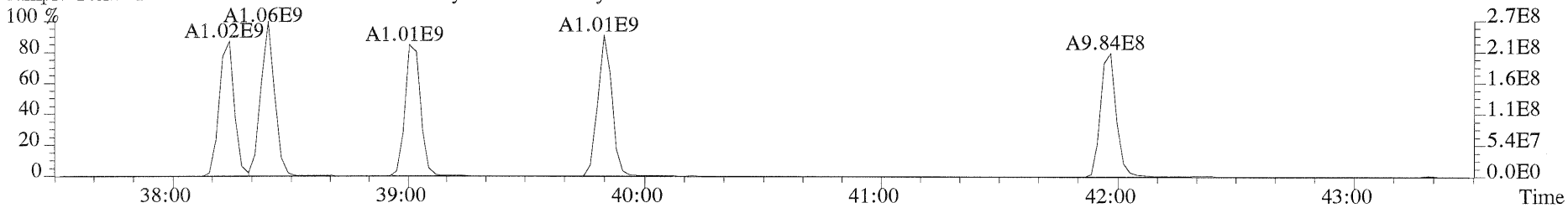
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



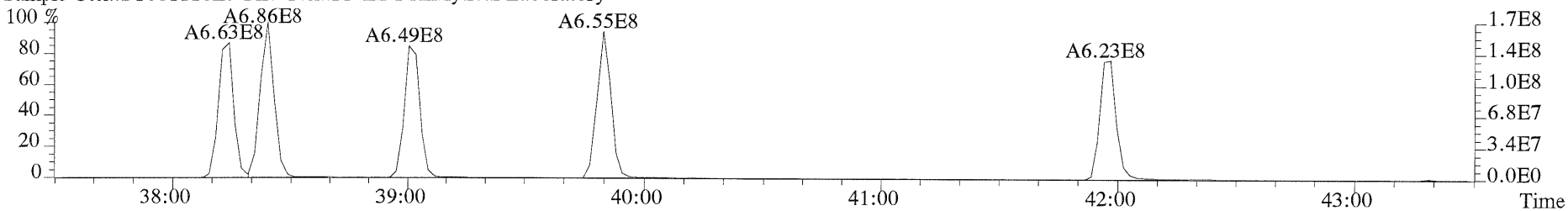
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



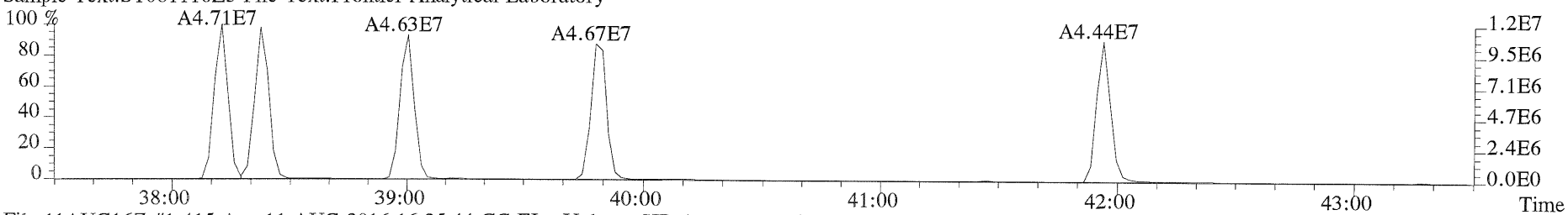
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



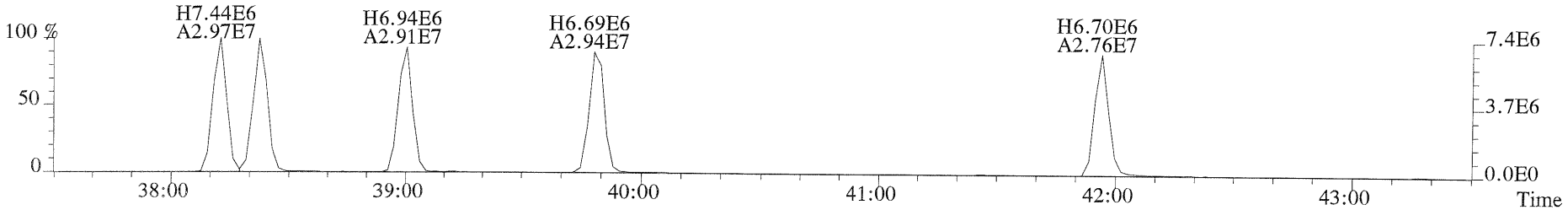
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



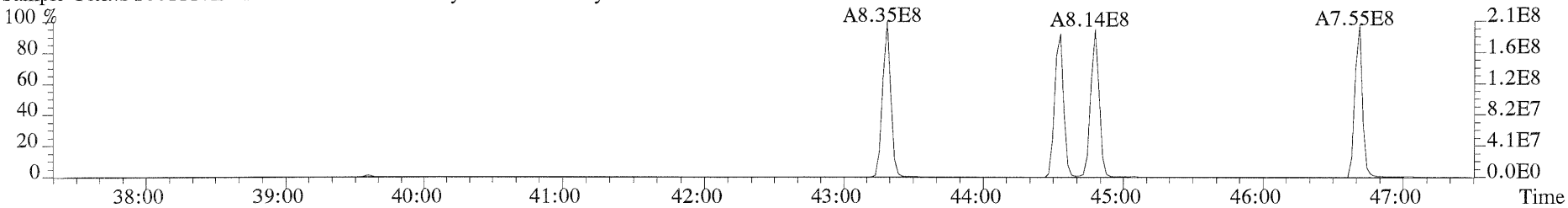
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



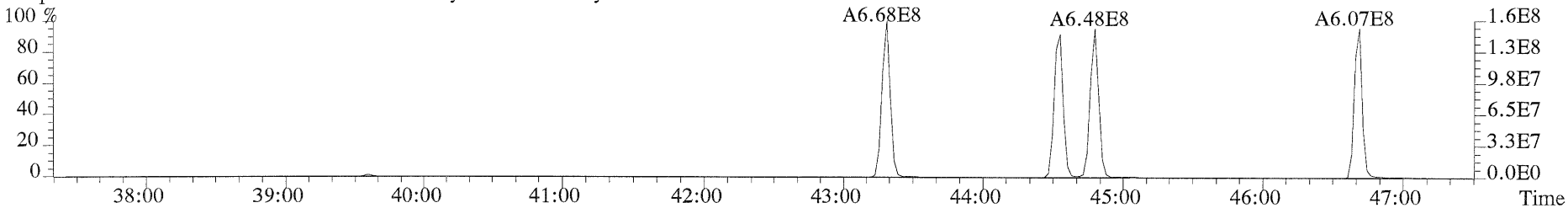
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



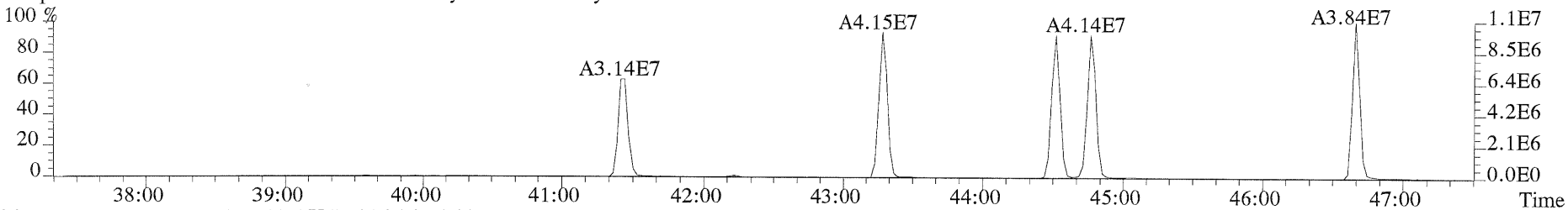
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



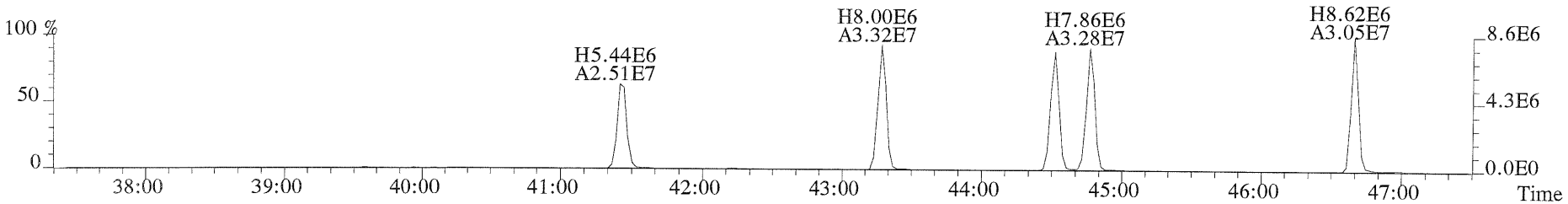
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



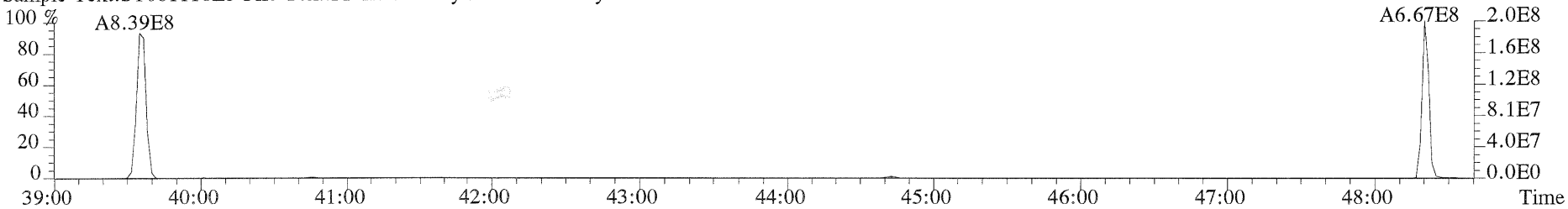
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



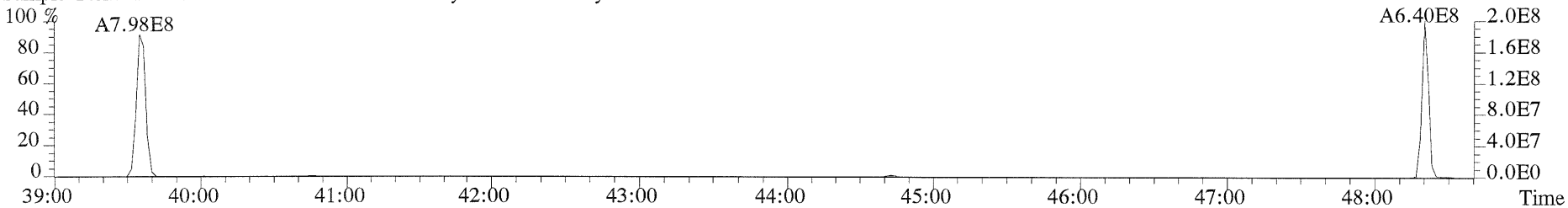
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



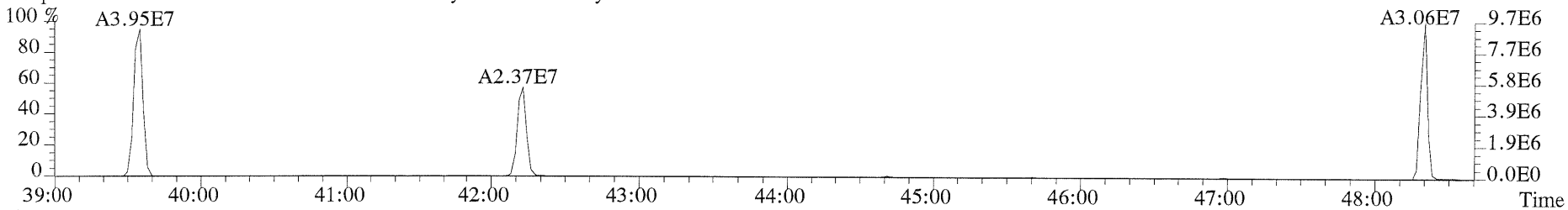
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



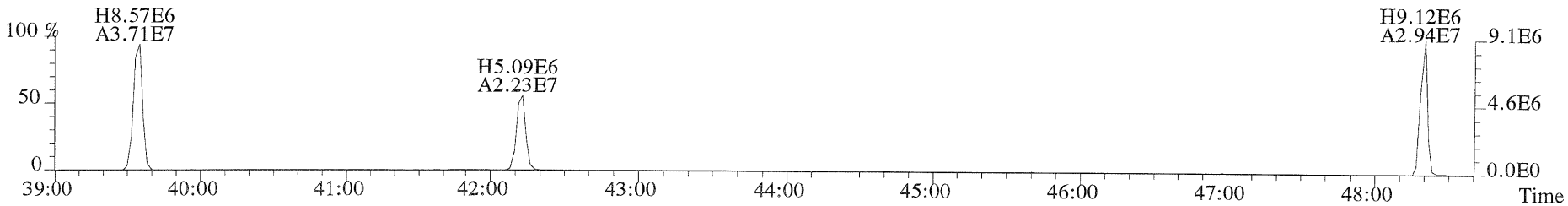
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



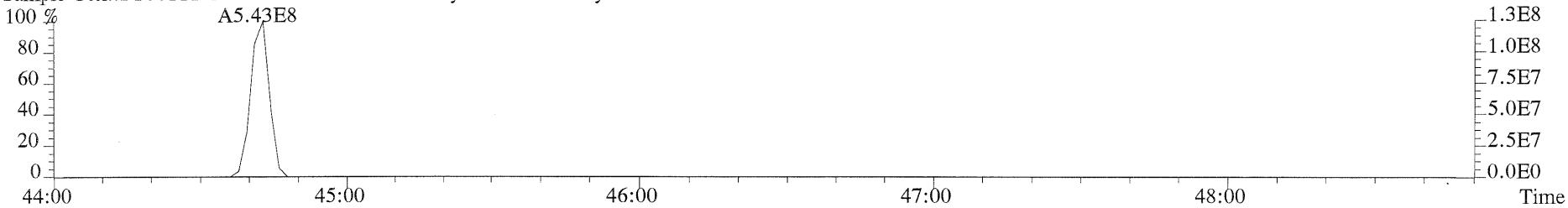
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



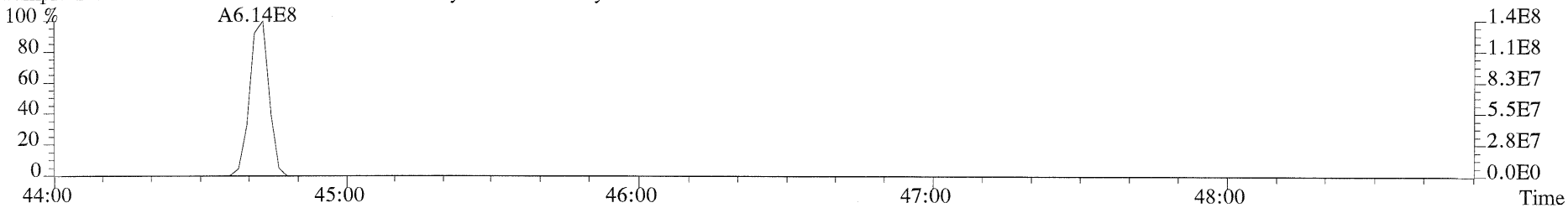
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



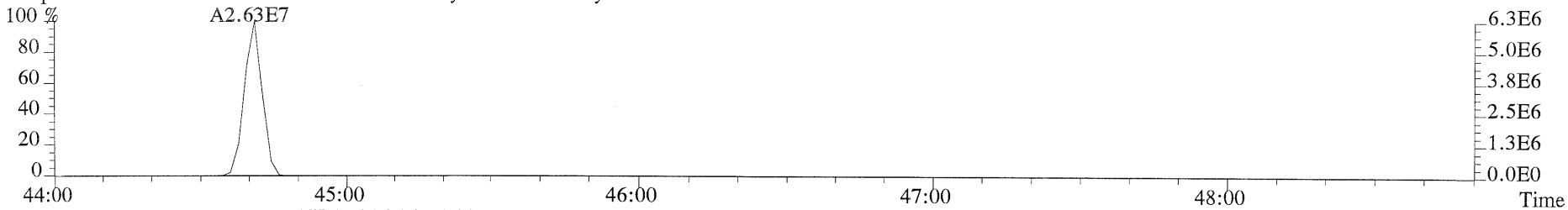
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



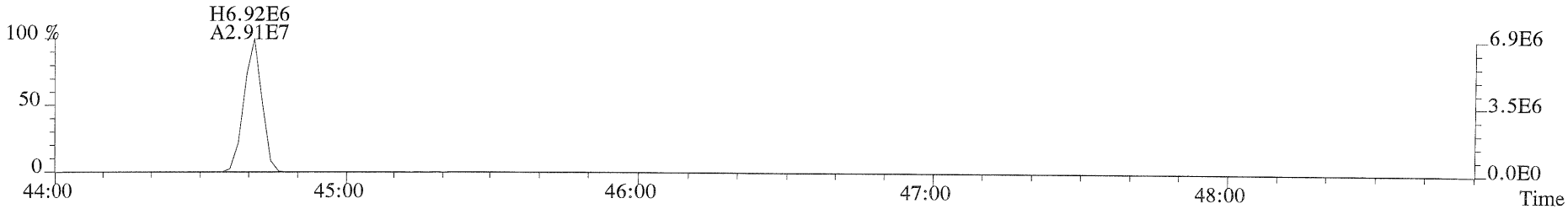
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



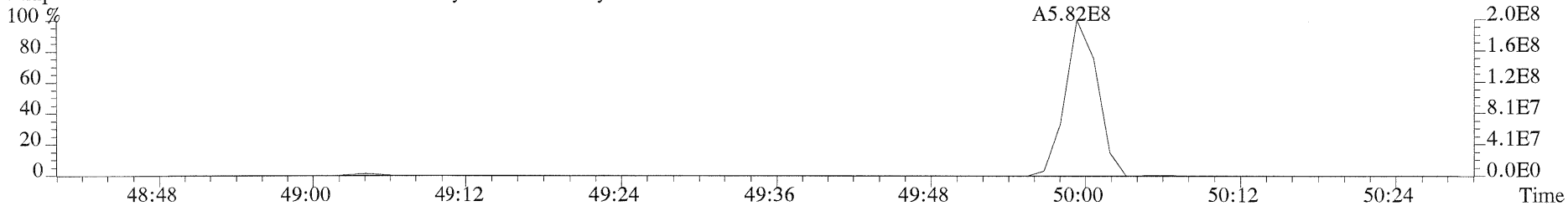
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 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:ST081116Z5 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 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:ST081116Z5 File Text:Frontier Analytical Laboratory



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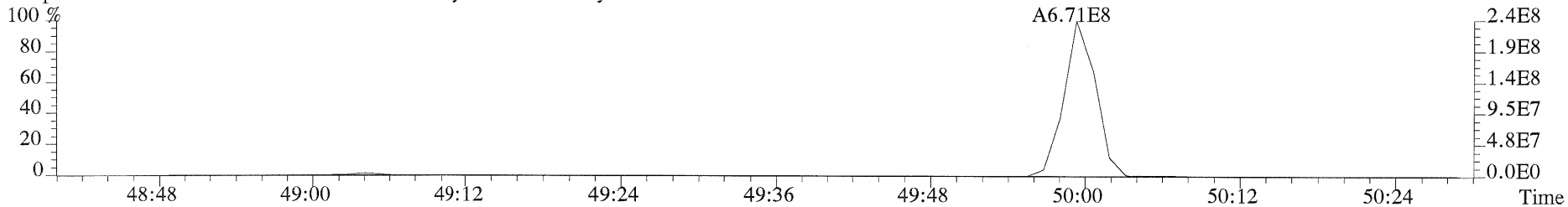
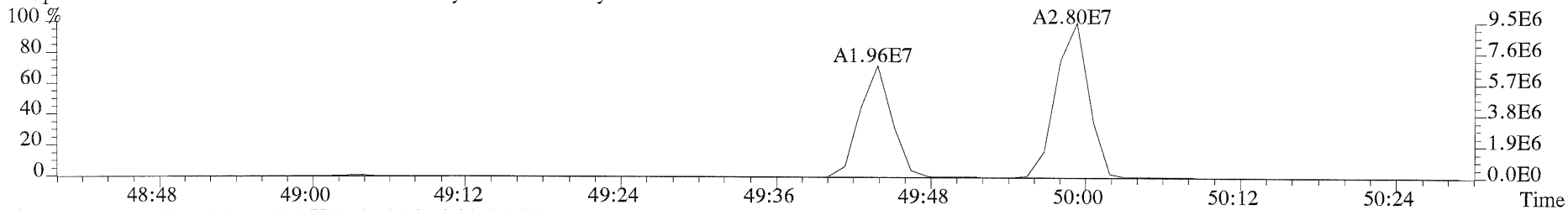
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 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:ST081116Z5 File Text:Frontier Analytical Laboratory



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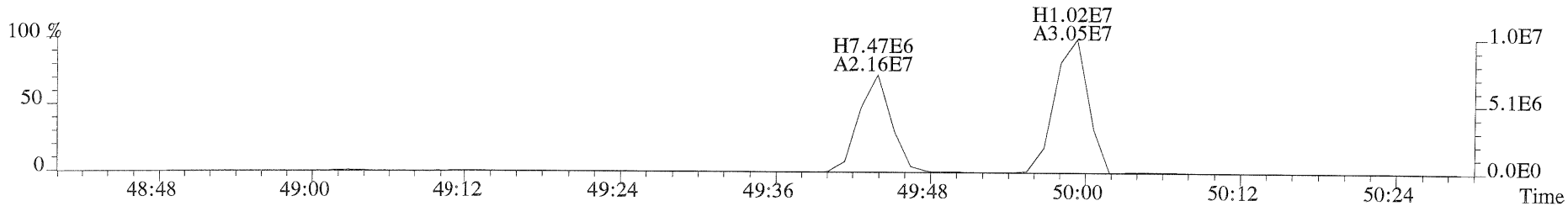
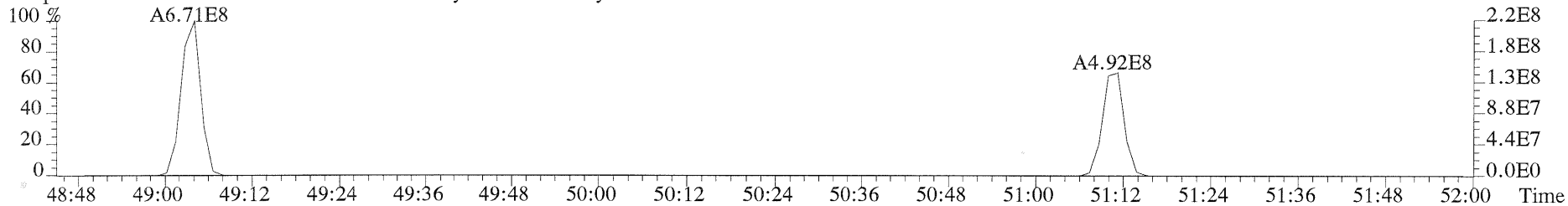
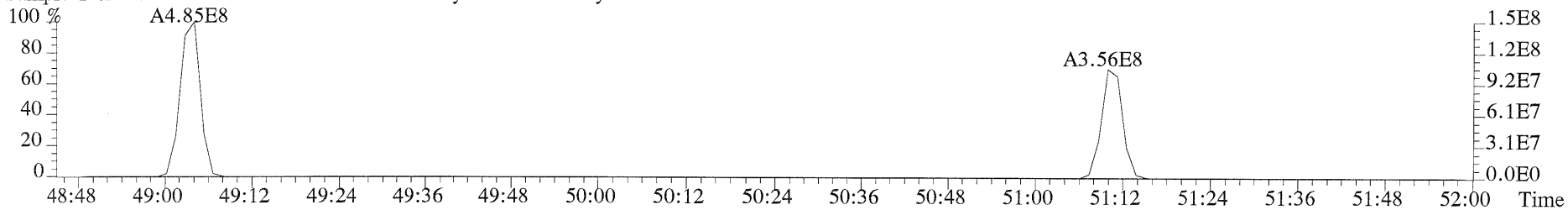
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



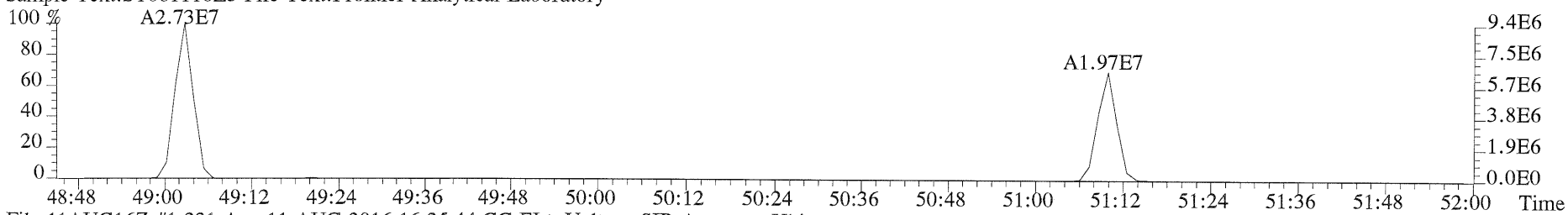
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



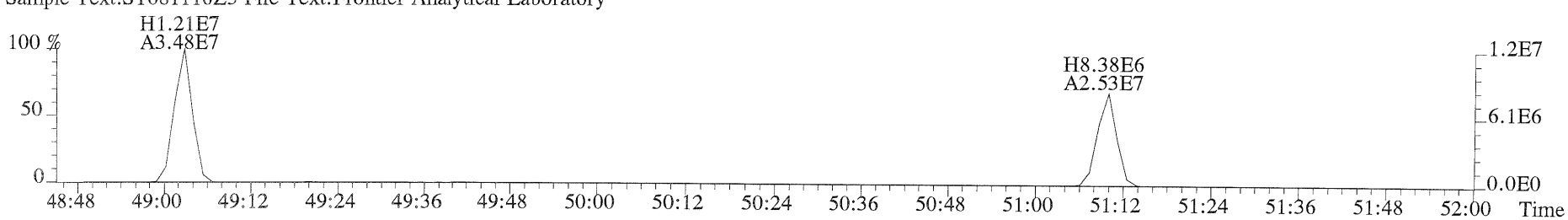
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



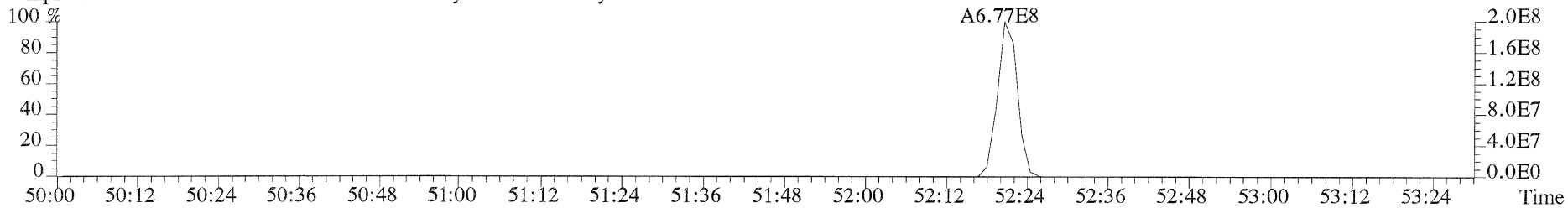
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 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:ST081116Z5 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 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:ST081116Z5 File Text:Frontier Analytical Laboratory



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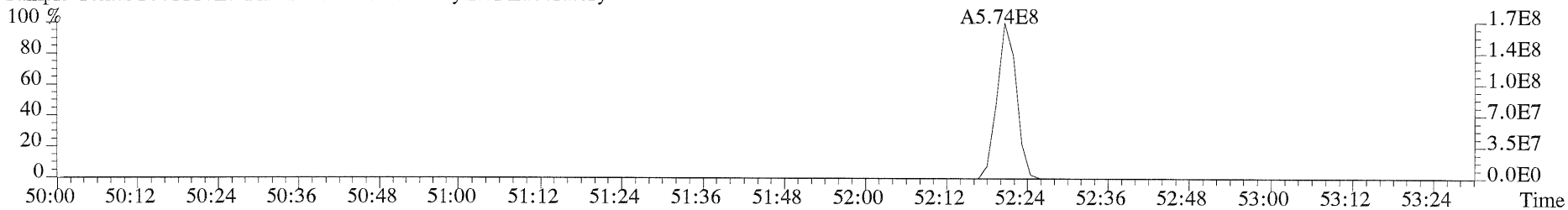
499.6797 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



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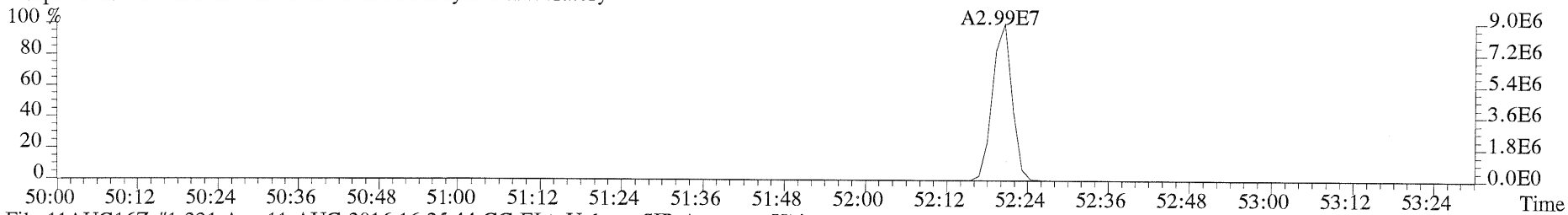
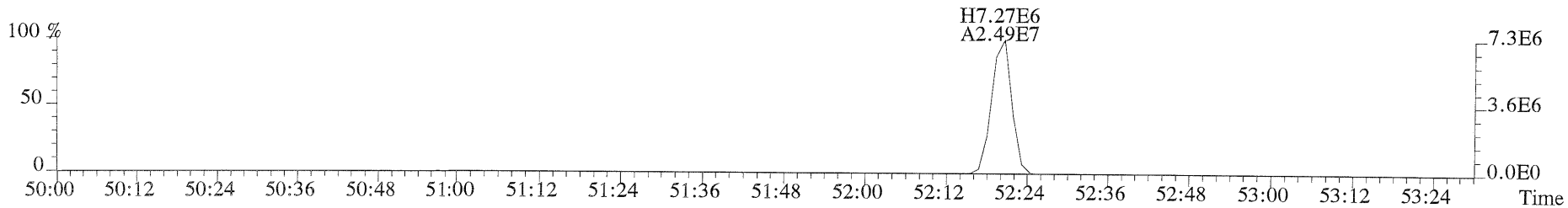
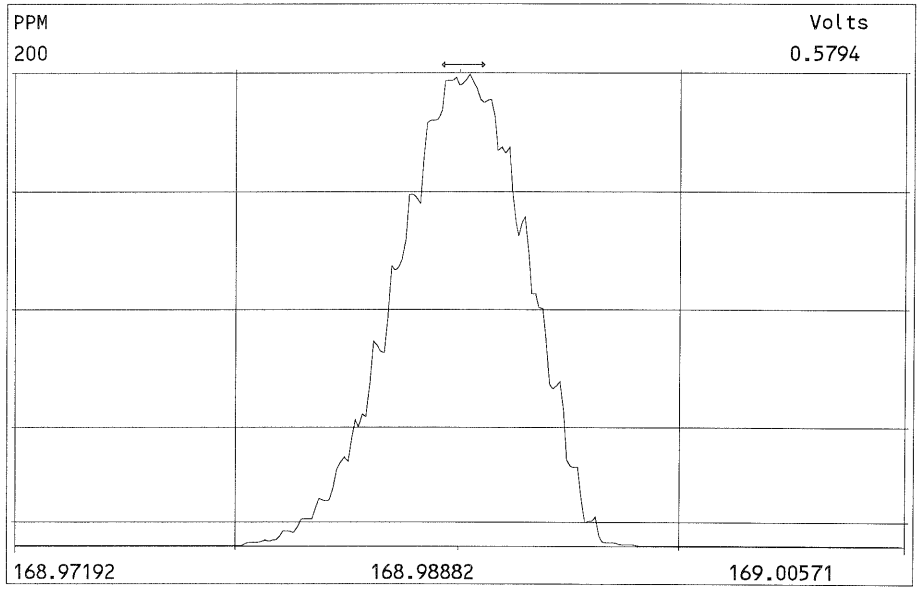
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory

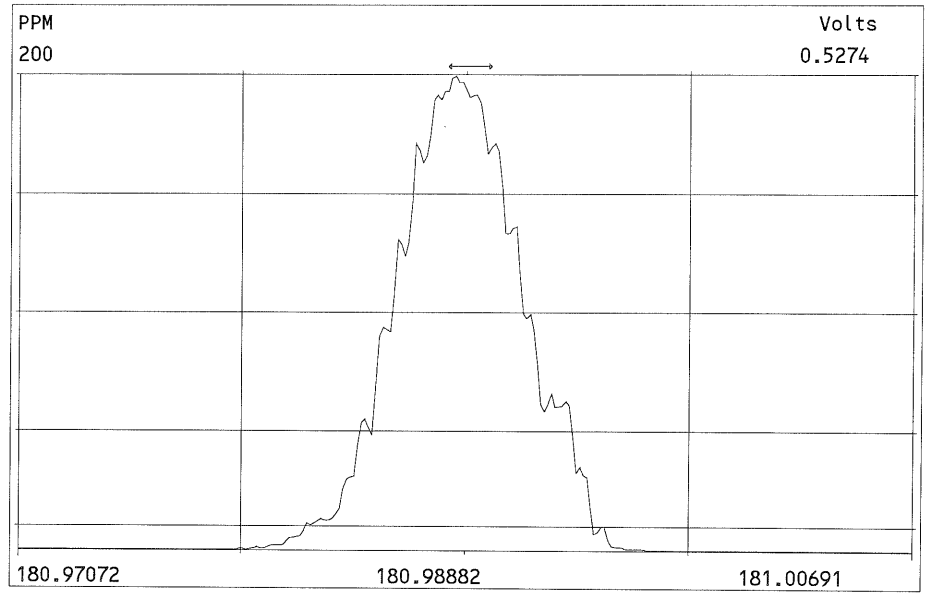


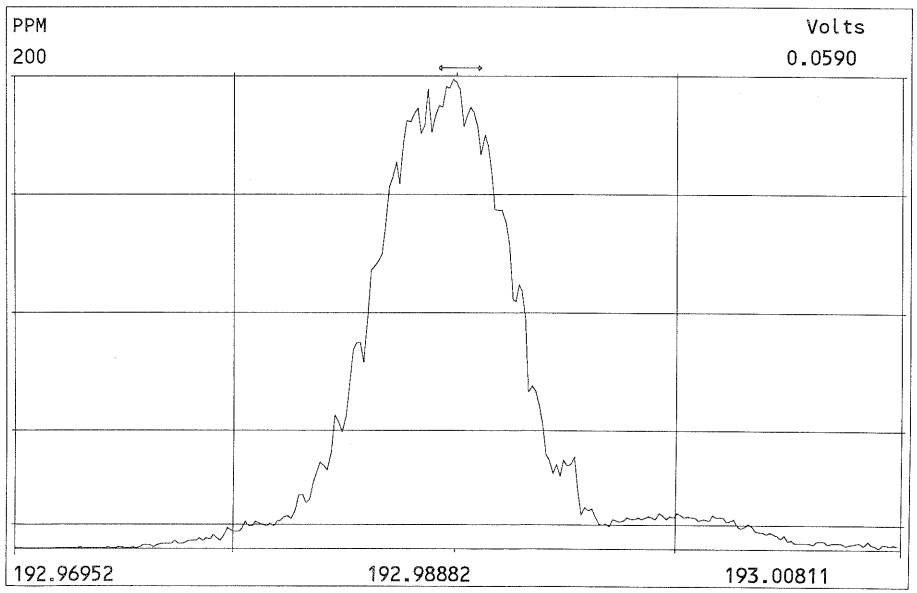
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory

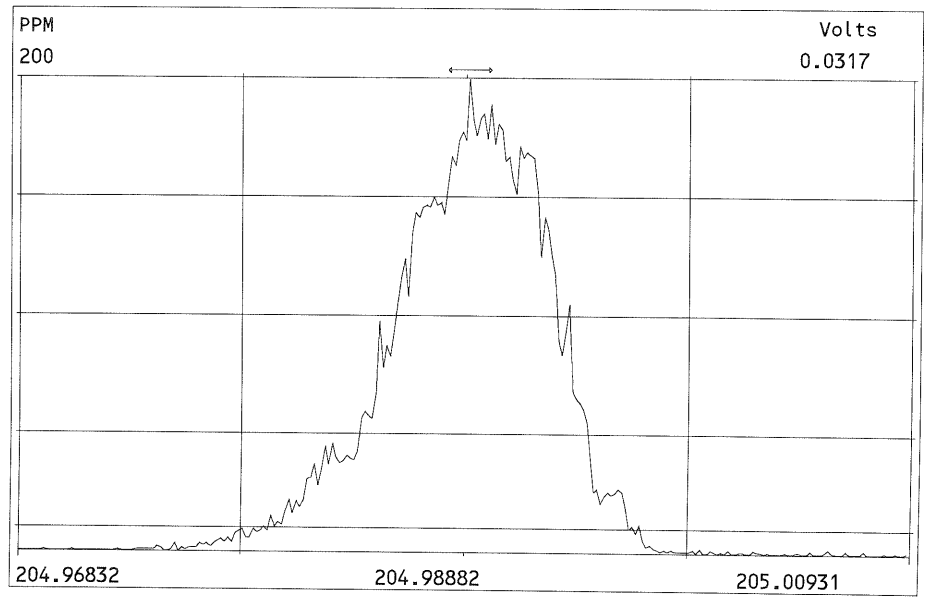


Peak Locate Examination:12-AUG-2016:07:42 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:1 Reference:PFK

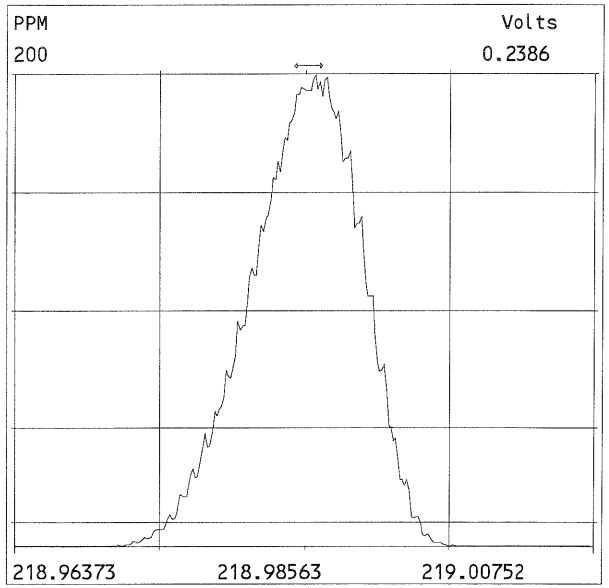


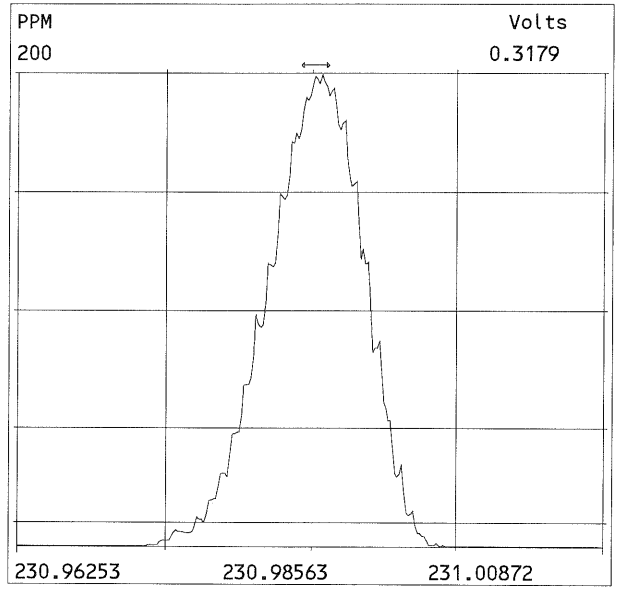


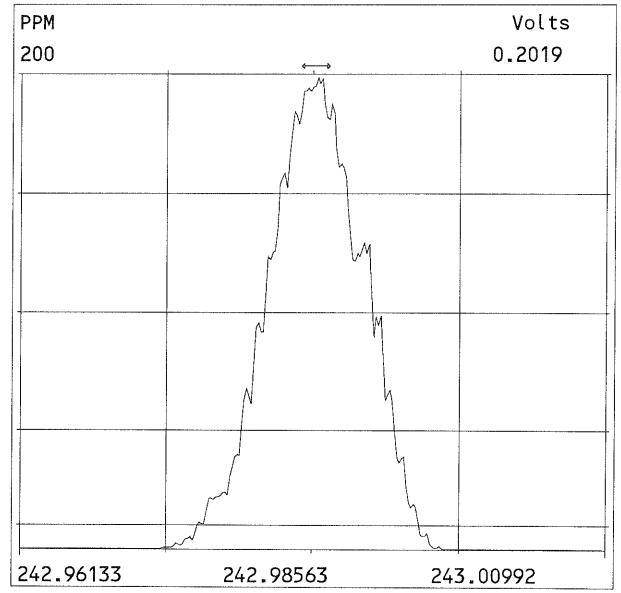


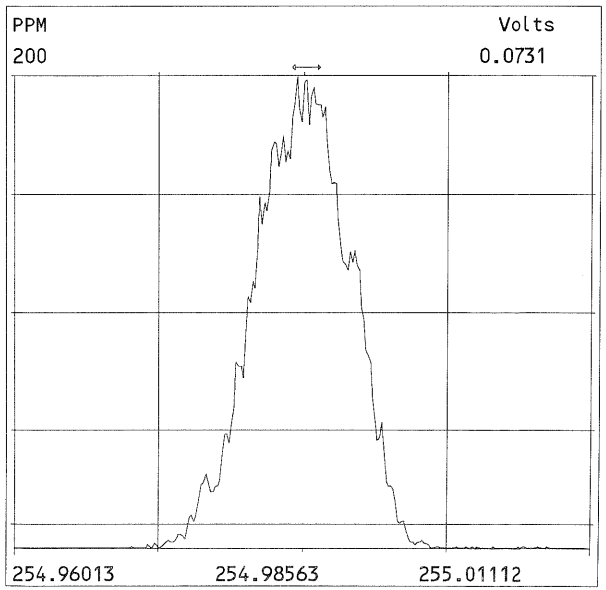


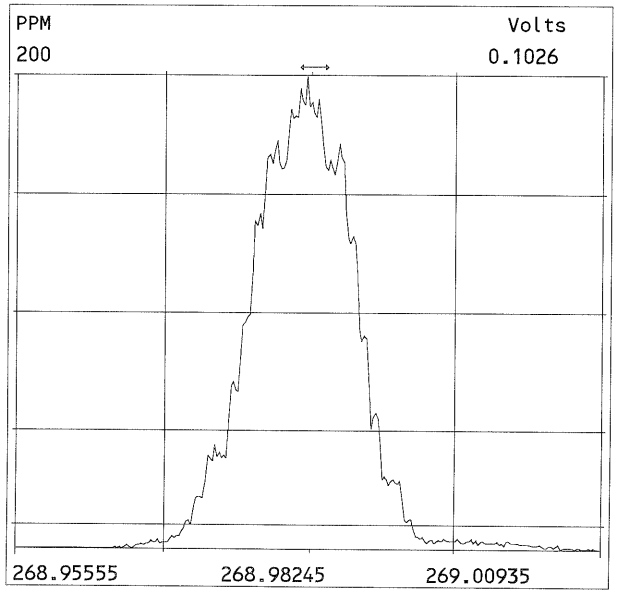
Peak Locate Examination:12-AUG-2016:07:42 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:2 Reference:PFK

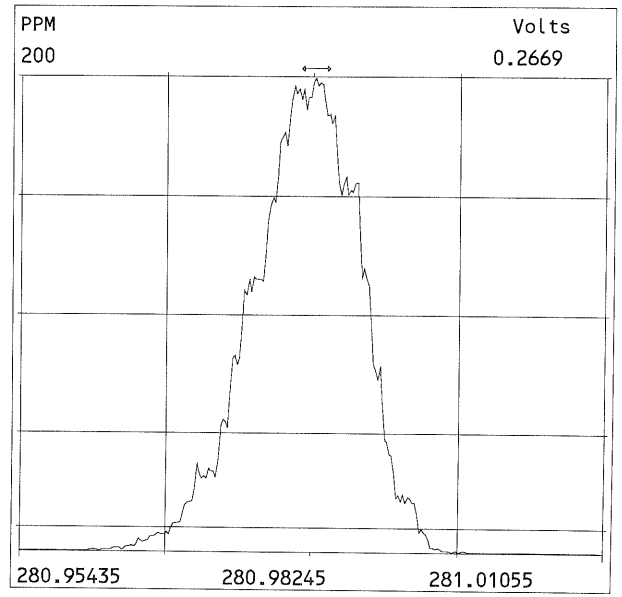




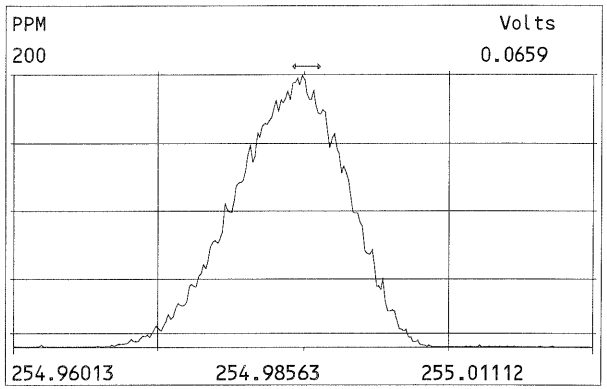


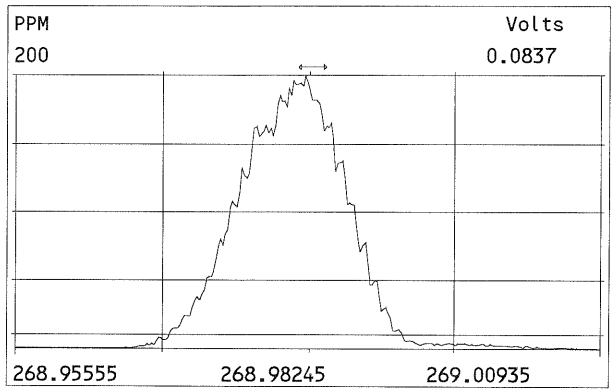


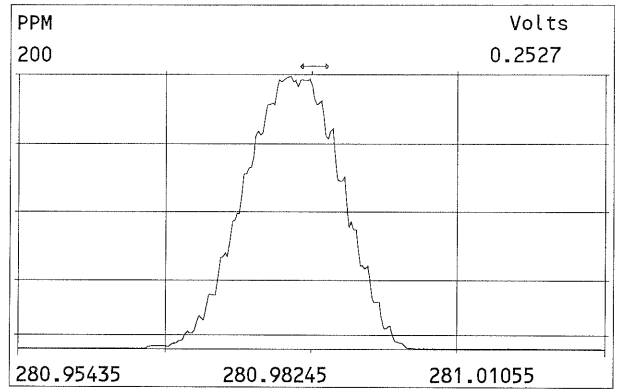


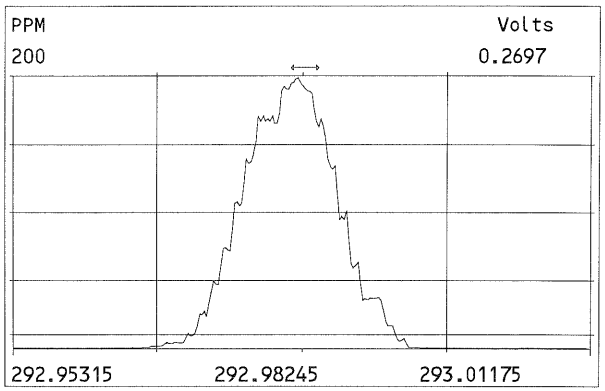


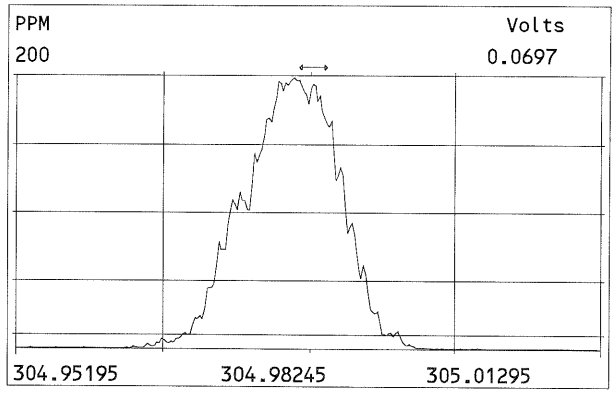
Peak Locate Examination:12-AUG-2016:07:43 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:3 Reference:PFK

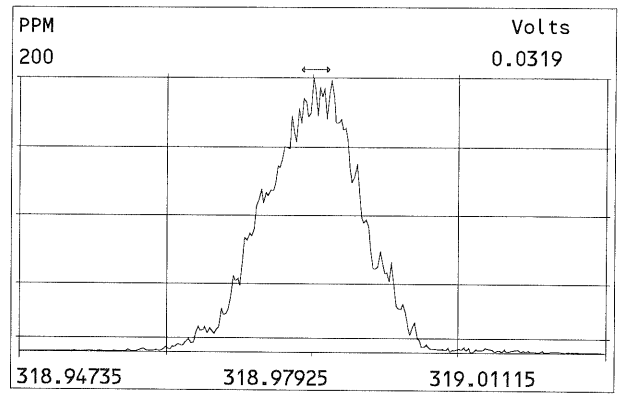


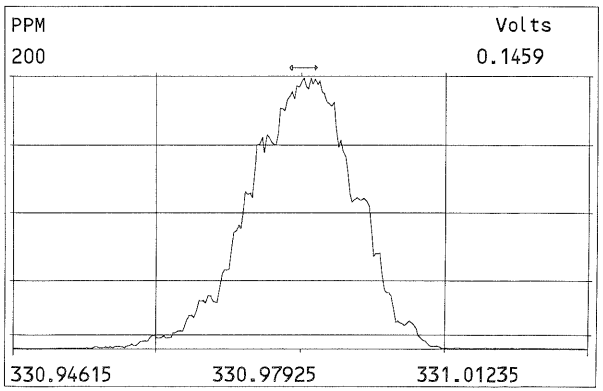


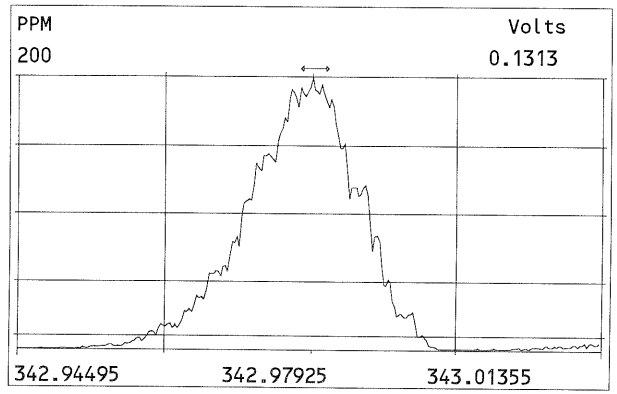




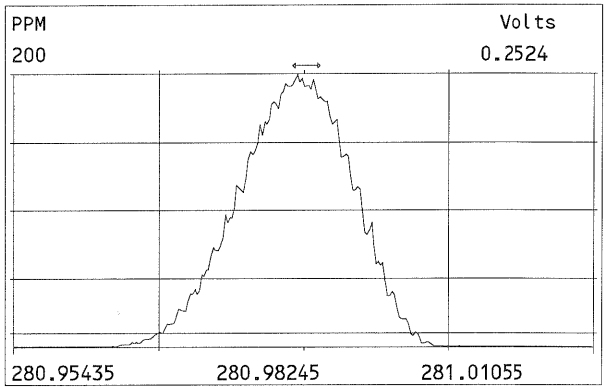


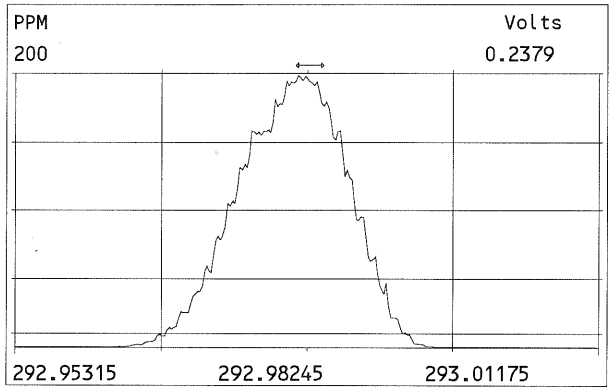


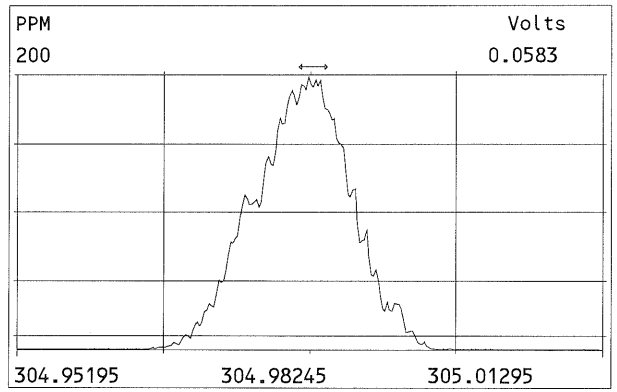


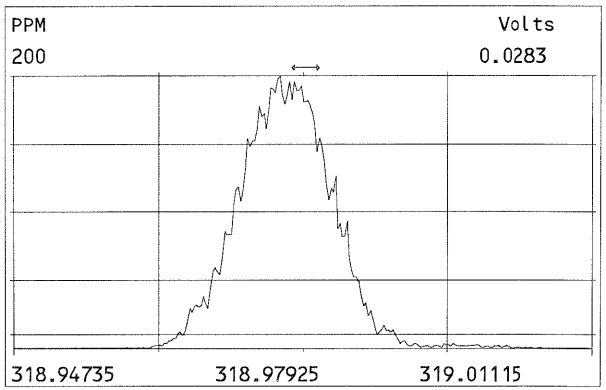


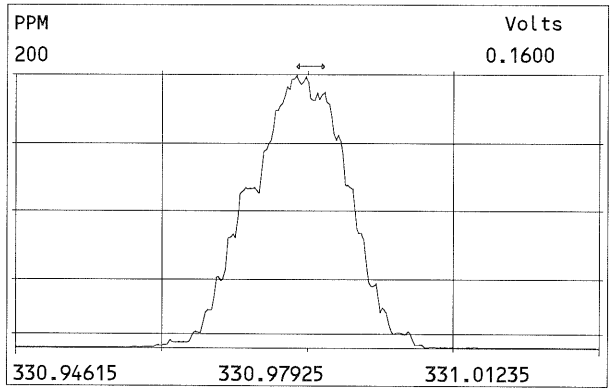
Peak Locate Examination:12-AUG-2016:07:43 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:4 Reference:PFK

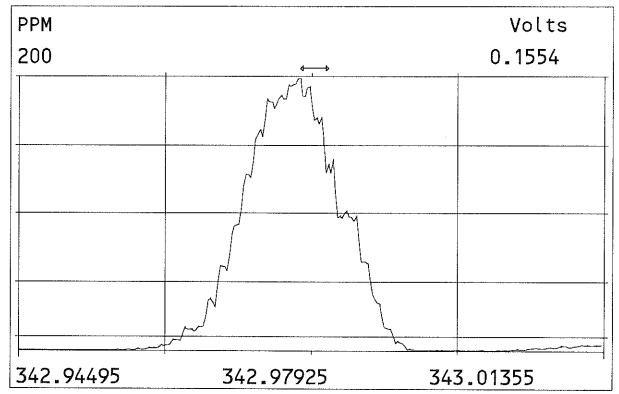


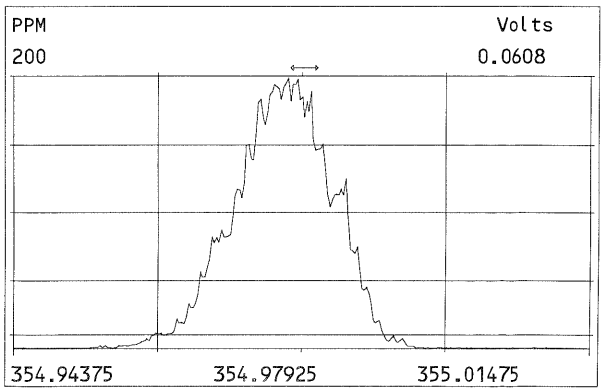


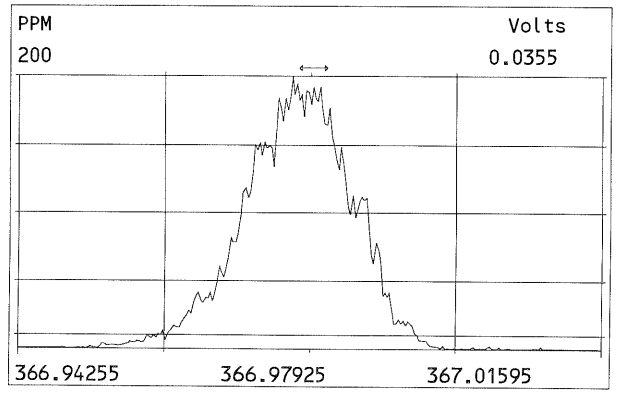


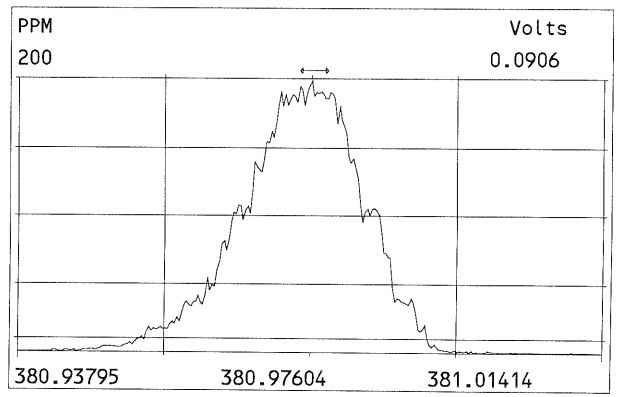




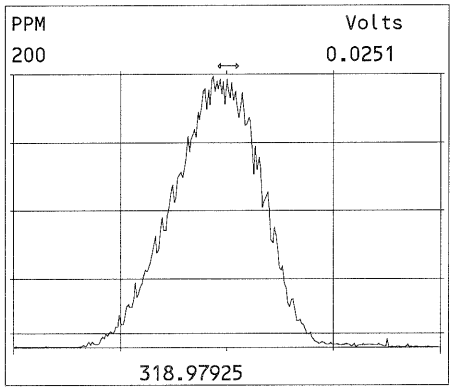


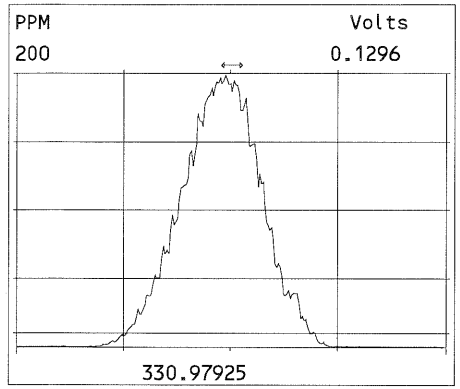


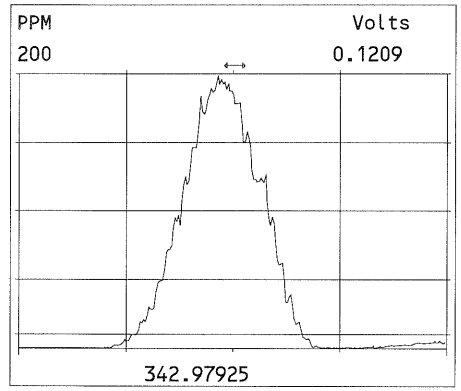


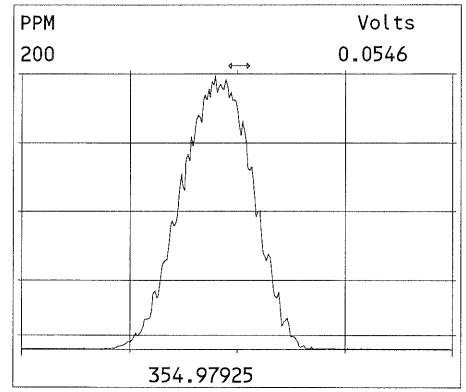


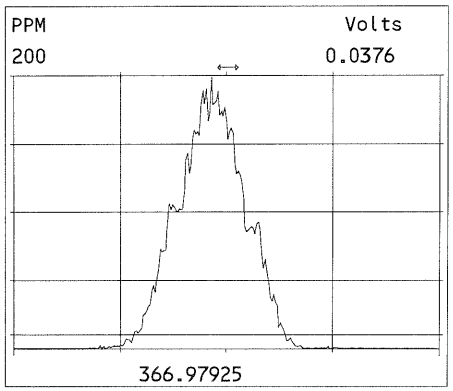
Peak Locate Examination:12-AUG-2016:07:44 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:5 Reference:PFK

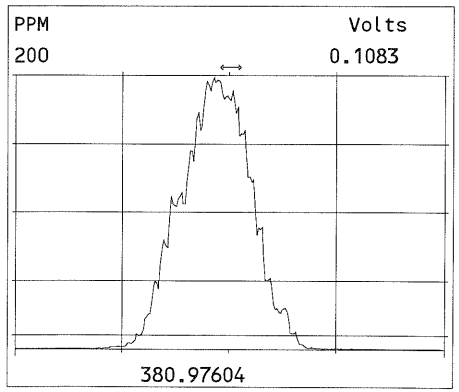


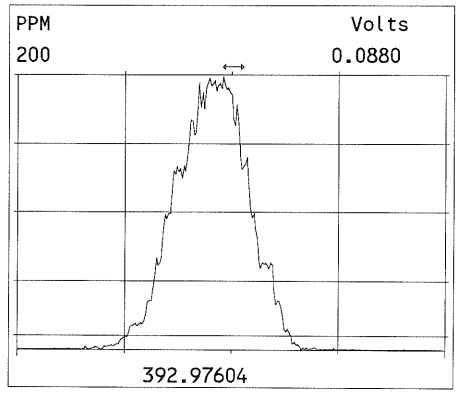


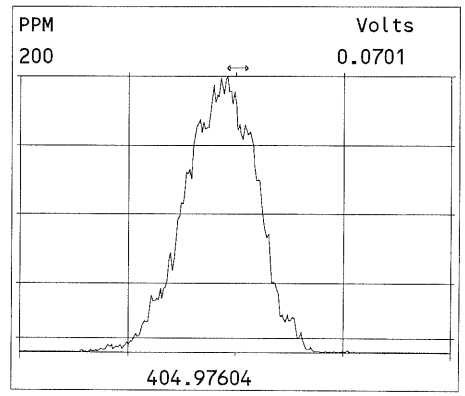


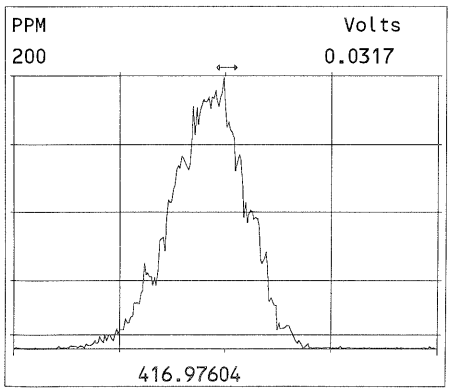


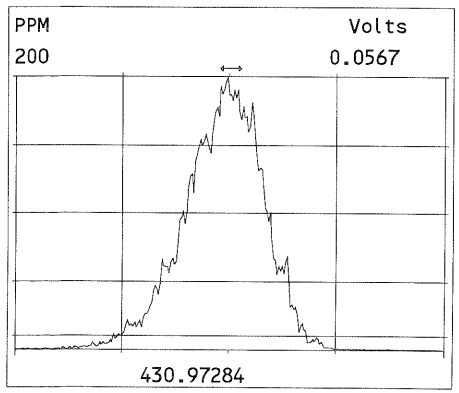


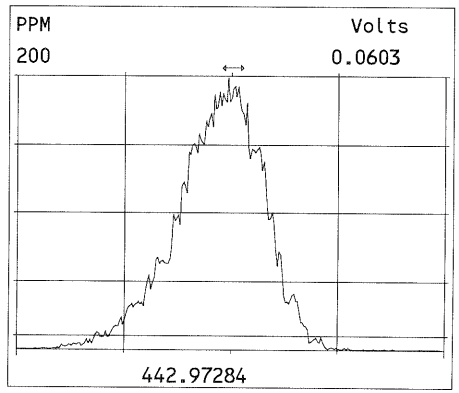




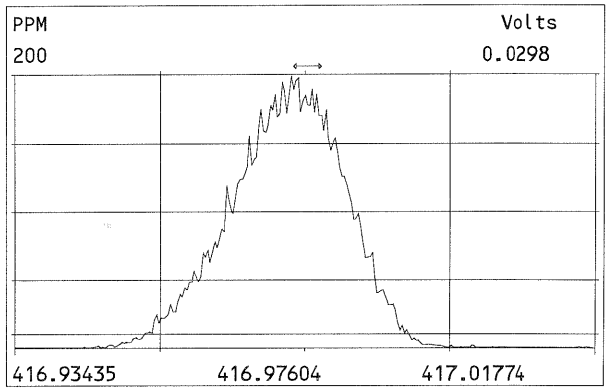


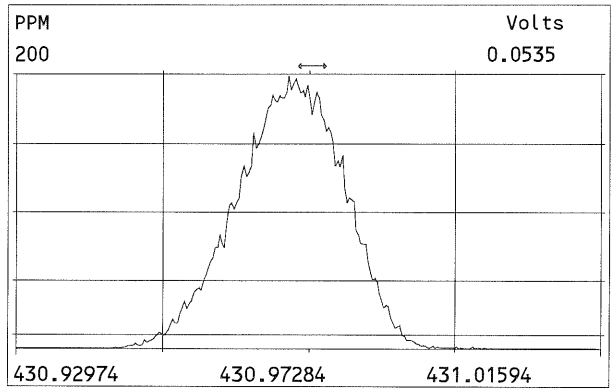


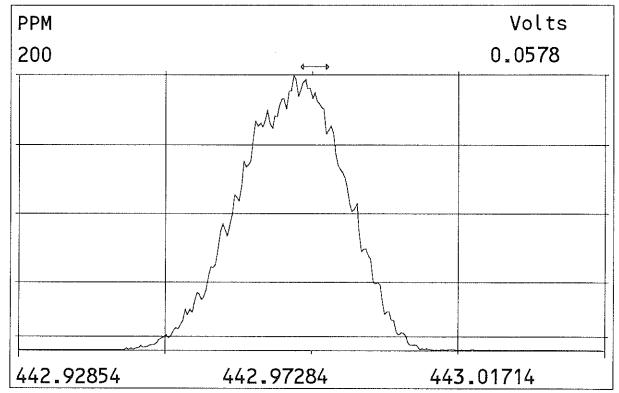


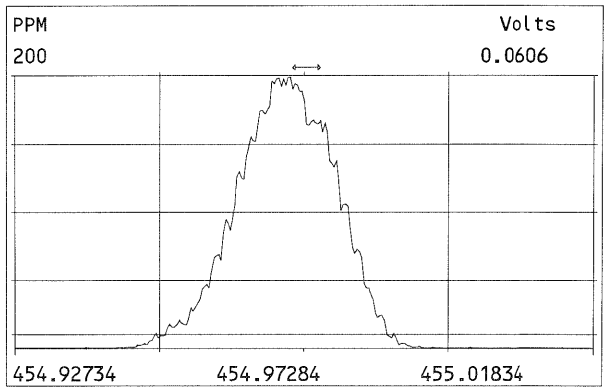


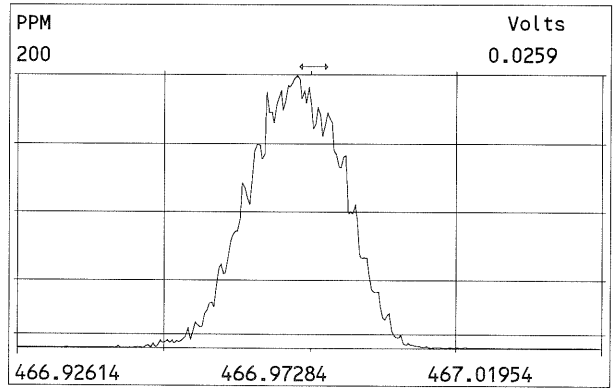
Peak Locate Examination:12-AUG-2016:07:44 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:6 Reference:PFK

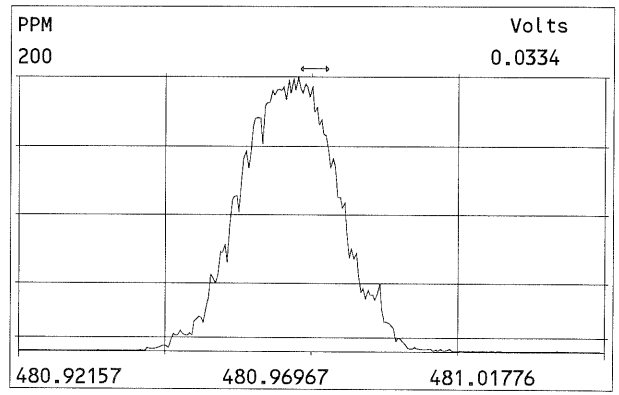


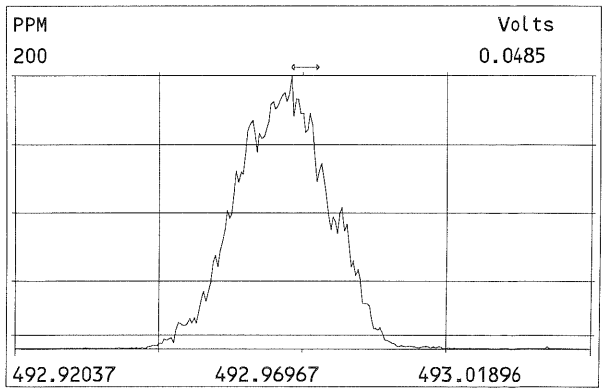


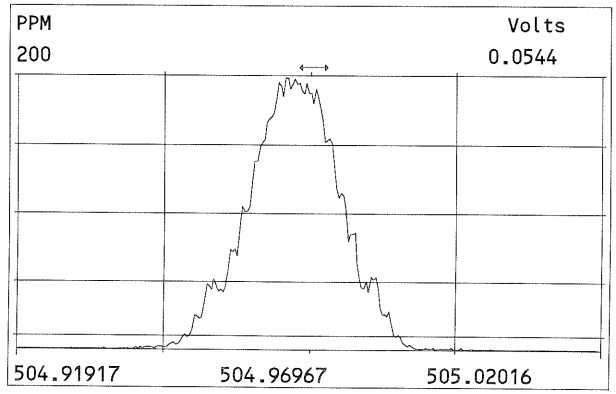


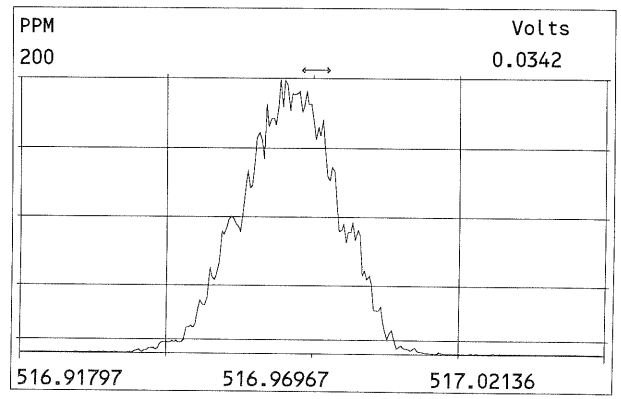












USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JAN17Z Sam:1 Analysis Date: 31-JAN-17 13:11:08

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.17	2.66-3.60	y	49.9	37.5 - 62.5
PCB-3	M/M+2	3.09	2.66-3.60	y	50.6	37.5 - 62.5
PCB-4	M/M+2	1.51	1.33-1.79	y	47.7	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	48.5	37.5 - 62.5
PCB-19	M/M+2	1.03	0.88-1.20	y	46.1	37.5 - 62.5
PCB-37	M/M+2	1.07	0.88-1.20	y	49.8	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	50.1	37.5 - 62.5
PCB-77	M/M+2	0.76	0.65-0.89	y	48.9	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	1.59	1.32-1.78	y	46.7	37.5 - 62.5
PCB-105	M+2/M+4	1.51	1.32-1.78	y	48.3	37.5 - 62.5
PCB-114	M+2/M+4	1.51	1.32-1.78	y	49.7	37.5 - 62.5
PCB-118	M+2/M+4	1.54	1.32-1.78	y	51.1	37.5 - 62.5
PCB-123	M+2/M+4	1.53	1.32-1.78	y	52.2	37.5 - 62.5
PCB-126	M+2/M+4	1.53	1.32-1.78	y	49.7	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	48.3	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	49.7	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	51.9	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	51.4	37.5 - 62.5
PCB-169	M+2/M+4	1.23	1.05-1.43	y	51.4	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	49.2	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	49.1	37.5 - 62.5
PCB-202	M+2/M+4	0.90	0.76-1.02	y	49.0	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	54.2	37.5 - 62.5
PCB-206	M+4/M+6	1.39	1.13-1.53	y	48.7	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	48.6	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	51.3	37.5 - 62.5

Analyst: [signature] Date: 1/31/17

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JAN17Z Sam:1 Analysis Date: 31-JAN-17 13:11:08

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.20	2.66-3.60	y	97.1	50.0 - 145
13C-PCB-3	M/M+2	3.22	2.66-3.60	y	94.6	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	98.9	50.0 - 145
13C-PCB-15	M/M+2	1.57	1.33-1.79	y	94.2	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	102	50.0 - 145
13C-PCB-37	M/M+2	1.05	0.88-1.20	y	82.5	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	98.2	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	73.5	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	73.8	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	107	50.0 - 145
13C-PCB-105	M+2/M+4	1.63	1.32-1.78	y	87.1	50.0 - 145
13C-PCB-114	M+2/M+4	1.64	1.32-1.78	y	93.4	50.0 - 145
13C-PCB-118	M+2/M+4	1.65	1.32-1.78	y	93.0	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	88.9	50.0 - 145
13C-PCB-126	M+2/M+4	1.55	1.32-1.78	y	73.5	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	99.8	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	85.6	50.0 - 145
13C-PCB-157	M+2/M+4	1.25	1.05-1.43	y	90.5	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	91.0	50.0 - 145
13C-PCB-169	M+2/M+4	1.23	1.05-1.43	y	74.0	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	112	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	84.7	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	115	50.0 - 145
13C-PCB-205	M+2/M+4	0.92	0.76-1.02	y	95.6	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	109	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	124	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	102	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.06	0.88-1.20	y	93.9	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	92.5	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	113	75.0 - 125

Analyst: _____ Date: 1/31/17

FAL ID: ST013117Z1 Filename: 31JAN17Z Sam:1 Acquired: 31-JAN-17 13:11:08 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R161111B ConCal: ST013117Z1 EndCal: ST013117Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.73e+07	3.17 y	14:32	1.05	49.9		2.50	-	-	*	-
13C-PCB-1	7.11e+07	3.20 y	14:31	1.14	97.1		2.50				97.1
PCB-3	3.58e+07	3.09 y	16:58	1.05	50.6		2.50	-	-	*	-
13C-PCB-3	6.75e+07	3.22 y	16:57	1.11	94.6		2.50				94.6
PCB-4	2.34e+07	1.51 y	18:12	1.14	47.7		2.50	-	-	*	-
13C-PCB-4	4.31e+07	1.60 y	18:11	0.68	98.9		2.50				98.9
PCB-15	3.28e+07	1.56 y	23:46	1.09	48.5		2.50	-	-	*	-
13C-PCB-15	6.22e+07	1.57 y	23:44	1.02	94.2		2.50				94.2
PCB-19	2.17e+07	1.03 y	22:05	1.16	46.1		2.50	-	-	*	-
13C-PCB-19	4.06e+07	1.08 y	22:04	0.61	102		2.50				102
13C-PCB-9	6.45e+07	1.60 y	19:52	-	47.2		2.50				
PCB-37	2.71e+07	1.07 y	30:25	1.14	49.8		2.50	-	-	*	-
13C-PCB-37	4.76e+07	1.05 y	30:25	1.38	82.5		2.50				82.5
PCB-54	2.71e+07	0.78 y	25:38	1.05	50.1		2.50	-	-	*	-
13C-PCB-54	5.15e+07	0.79 y	25:37	1.25	98.2		2.50				98.2
PCB-104	2.17e+07	1.59 y	30:05	1.14	46.7		2.50	-	-	*	-
13C-PCB-104	4.06e+07	1.59 y	30:04	0.91	107		2.50				107
13C-PCB-28	5.83e+07	1.06 y	26:43	1.48	93.9		2.50				93.9
13C-PCB-52	4.19e+07	0.78 y	28:58	-	50.3		2.50				
PCB-81	2.02e+07	0.76 y	36:12	1.14	48.4		2.50	-	-	*	-
13C-PCB-81	3.63e+07	0.80 y	36:11	1.27	73.8		2.50				73.8
PCB-77	1.95e+07	0.76 y	36:46	1.10	48.9		2.50	-	-	*	-
13C-PCB-77	3.62e+07	0.79 y	36:45	1.27	73.5		2.50				73.5
PCB-155	2.25e+07	1.27 y	34:15	1.11	48.3		2.50	-	-	*	-
13C-PCB-155	4.20e+07	1.29 y	34:14	1.09	99.8		2.50				99.8
13C-PCB-111	4.49e+07	1.62 y	36:20	1.25	92.5		2.50				92.5
13C-PCB-101	3.87e+07	1.62 y	34:40	-	53.1		2.50				
PCB-123	1.88e+07	1.53 y	38:23	1.05	52.2		2.50	-	-	*	-
13C-PCB-123	3.41e+07	1.61 y	38:23	1.20	88.9		2.50				88.9
PCB-118	2.12e+07	1.54 y	38:34	1.07	51.1		2.50	-	-	*	-
13C-PCB-118	3.90e+07	1.65 y	38:33	1.31	93.0		2.50				93.0
PCB-114	1.98e+07	1.51 y	39:12	1.08	49.7		2.50	-	-	*	-
13C-PCB-114	3.68e+07	1.64 y	39:11	1.23	93.4		2.50				93.4
PCB-105	1.80e+07	1.51 y	39:60	1.08	48.3		2.50	-	-	*	-
13C-PCB-105	3.45e+07	1.63 y	39:58	1.24	87.1		2.50				87.1
PCB-126	1.46e+07	1.53 y	42:08	1.07	49.7		2.50	-	-	*	-
13C-PCB-126	2.75e+07	1.55 y	42:08	1.17	73.5		2.50				73.5
PCB-167	1.81e+07	1.26 y	43:31	0.98	51.4		2.50	-	-	*	-
13C-PCB-167	3.60e+07	1.26 y	43:29	1.24	91.0		2.50				91.0
PCB-156	1.62e+07	1.26 y	44:45	1.01	49.7		2.50	-	-	*	-
13C-PCB-156	3.23e+07	1.27 y	44:43	1.18	85.6		2.50				85.6
PCB-157	1.77e+07	1.24 y	44:60	0.96	51.9		2.50	-	-	*	-
13C-PCB-157	3.54e+07	1.25 y	44:58	1.22	90.5		2.50				90.5
PCB-169	1.34e+07	1.23 y	46:53	1.00	51.4		2.50	-	-	*	-
13C-PCB-169	2.62e+07	1.23 y	46:51	1.11	74.0		2.50				74.0
PCB-188	2.36e+07	1.06 y	39:45	1.09	49.2		2.50	-	-	*	-
13C-PCB-188	4.39e+07	1.09 y	39:45	1.22	112		2.50				112
PCB-189	1.46e+07	1.05 y	48:32	1.14	49.1		2.50	-	-	*	-
13C-PCB-189	2.62e+07	1.07 y	48:32	0.97	84.7		2.50				84.7
PCB-202	1.66e+07	0.90 y	44:53	1.05	49.0		2.50	-	-	*	-
13C-PCB-202	3.22e+07	0.92 y	44:53	0.88	115		2.50				115
13C-PCB-178	2.78e+07	1.06 y	42:23	0.77	113		2.50				113
13C-PCB-138	3.19e+07	1.26 y	41:37	-	45.8		2.50				

FAL ID: ST013117Z1 Filename: 31JAN17Z Sam:1 Acquired: 31-JAN-17 13:11:08 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R161111B ConCal: ST013117Z1 EndCal: ST013117Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	1.61e+07	0.89	y	50:13	1.02	54.2	2.50	-	-	*	-
13C-PCB-205	2.92e+07	0.92	y	50:13	1.38	95.6	2.50				95.6
PCB-208	1.64e+07	1.34	y	49:16	0.93	48.6	2.50	-	-	*	-
13C-PCB-208	3.61e+07	0.80	y	49:16	1.31	124	2.50				124
PCB-206	1.12e+07	1.39	y	51:28	0.94	48.7	2.50	-	-	*	-
13C-PCB-206	2.45e+07	0.79	y	51:28	1.01	109	2.50				109
PCB-209	1.70e+07	1.20	y	52:44	1.10	51.3	2.50	-	-	*	-
13C-PCB-209	3.01e+07	1.20	y	52:42	1.34	102	2.50				102
13C-PCB-194	2.21e+07	0.94	y	49:58	-	43.9	2.50				

Analyst: [illegible] Date: 1/31/17

FORM 7A-HR

RELATIVE RESPONSE/RELATIVE RESPONSE FACTOR CONTINUING CALIBRATION SUMMARY

Lab Name: Frontier Analytical Lab Contract:

Lab Code: FTR Case No.: MA No.: SDG NO.: NA

Inst. ID: FAL4 GC Column: DB1MS ID: 0.25 (mm) EPA Sample No.:1668 CS3 R161111B

Init. Calib. Date: 11-AUG-16 Date Analyzed: 31-JAN-17

Init. Calib. Time: 12:25:59 Time Anayzed: 13:11:08

Analytical Method: CBC

CL No.	Analyte Name	RR/RRF	MEAN RR/RRF	%D	IAR	IAR QC Limits
1	PCB-1	1.05	1.05	-0.193	3.17	2.66-3.60
1	PCB-3	1.06	1.05	1.22	3.09	2.66-3.60
2	PCB-4	1.08	1.14	-4.61	1.51	1.33-1.79
2	PCB-15	1.06	1.09	-3.09	1.56	1.33-1.79
3	PCB-19	1.07	1.16	-7.83	1.03	0.88-1.20
3	PCB-37	1.14	1.14	-0.345	1.07	0.88-1.20
4	PCB-54	1.05	1.05	0.237	0.78	0.65-0.89
4	PCB-77	1.08	1.10	-2.22	0.76	0.65-0.89
4	PCB-81	1.11	1.14	-3.12	0.76	0.65-0.89
5	PCB-104	1.07	1.14	-6.50	1.59	1.32-1.78
5	PCB-105	1.04	1.08	-3.40	1.51	1.32-1.78
5	PCB-114	1.08	1.08	-0.670	1.51	1.32-1.78
5	PCB-118	1.09	1.07	2.29	1.54	1.32-1.78
5	PCB-123	1.10	1.05	4.46	1.53	1.32-1.78
5	PCB-126	1.06	1.07	-0.660	1.53	1.32-1.78
6	PCB-155	1.07	1.11	-3.48	1.27	1.05-1.43
6	PCB-156	1.00	1.01	-0.681	1.26	1.05-1.43
6	PCB-157	1.00	0.96	3.74	1.24	1.05-1.43
6	PCB-167	1.01	0.98	2.73	1.26	1.05-1.43
6	PCB-169	1.03	1.00	2.87	1.23	1.05-1.43
7	PCB-188	1.08	1.09	-1.68	1.06	0.89-1.21
7	PCB-189	1.12	1.14	-1.85	1.05	0.89-1.21
8	PCB-202	1.03	1.05	-1.91	0.90	0.76-1.02
8	PCB-205	1.10	1.02	8.46	0.89	0.76-1.02
9	PCB-206	0.91	0.94	-2.66	1.39	1.16-1.53
9	PCB-208	0.91	0.93	-2.73	1.34	1.16-1.53
10	PCB-209	1.13	1.10	2.55	1.20	0.99-1.33

Analyst: [signature] Date: 2/3/17

FORM 7A-HR

RELATIVE RESPONSE/RELATIVE RESPONSE FACTOR CONTINUING CALIBRATION SUMMARY

Lab Name: Frontier Analytical Lab Contract:

Lab Code: FTR Case No.: MA No.: SDG NO.: NA

Inst. ID: FAL4 GC Column: DB1MS ID: 0.25 (mm) EPA Sample No.:1668 CS3 R161111B

Init. Calib. Date: 11-AUG-16 Date Analyzed: 31-JAN-17

Init. Calib. Time: 12:25:59 Time Anayzed: 13:11:08

Analytical Method: CBC

CL No.	Analyte Name	RR/RRF	MEAN RR/RRF	%D	IAR	IAR QC Limits
1	13C-PCB-1	1.10	1.14	-2.91	3.20	2.66-3.60
1	13C-PCB-3	1.05	1.11	-5.43	3.22	2.66-3.60
2	13C-PCB-4	0.67	0.68	-1.05	1.60	1.33-1.79
2	13C-PCB-15	0.96	1.02	-5.81	1.57	1.33-1.79
3	13C-PCB-19	0.63	0.61	2.43	1.08	0.88-1.20
3	13C-PCB-37	1.14	1.38	-17.5	1.05	0.88-1.20
4	13C-PCB-54	1.23	1.25	-1.76	0.79	0.65-0.89
4	13C-PCB-77	0.93	1.27	-26.5	0.79	0.65-0.89
4	13C-PCB-81	0.94	1.27	-26.2	0.80	0.65-0.89
5	13C-PCB-104	0.97	0.91	6.62	1.59	1.32-1.78
5	13C-PCB-105	1.08	1.24	-12.9	1.63	1.32-1.78
5	13C-PCB-114	1.15	1.23	-6.60	1.64	1.32-1.78
5	13C-PCB-118	1.22	1.31	-6.96	1.65	1.32-1.78
5	13C-PCB-123	1.07	1.20	-11.1	1.61	1.32-1.78
5	13C-PCB-126	0.86	1.17	-26.5	1.55	1.32-1.78
6	13C-PCB-155	1.08	1.09	-0.222	1.29	1.05-1.43
6	13C-PCB-156	1.01	1.18	-14.4	1.27	1.05-1.43
6	13C-PCB-157	1.11	1.22	-9.47	1.25	1.05-1.43
6	13C-PCB-167	1.13	1.24	-9.00	1.26	1.05-1.43
6	13C-PCB-169	0.82	1.11	-26.0	1.23	1.05-1.43
7	13C-PCB-188	1.38	1.22	12.4	1.09	0.89-1.21
7	13C-PCB-189	0.82	0.97	-15.3	1.07	0.89-1.21
8	13C-PCB-202	1.01	0.88	15.0	0.92	0.76-1.02
8	13C-PCB-205	1.32	1.38	-4.44	0.92	0.76-1.02
9	13C-PCB-206	1.11	1.01	9.12	0.79	0.65-0.89
9	13C-PCB-208	1.63	1.31	24.4	0.80	0.65-0.89
10	13C-PCB-209	1.36	1.34	1.65	1.20	0.99-1.33

Analyst: _____ Date: 2/3/17

FORM 7B-HR

RELATIVE RELATIVE RETENTION TIME CONTINUING CALIBRATION SUMMARY

Lab Name: Frontier Analytical Lab Contract:

Lab Code: FTR Case No.: MA No.: SDG NO.: NA

Inst. ID: FAL4 GC Column: DB1MS ID: 0.25 (mm) EPA Sample No.:1668 CS3 R161111B

Init. Calib. Date: 11-AUG-16 Date Analyzed: 31-JAN-17

Init. Calib. Time: 12:25:59 Time Anayzed: 13:11:08

CL No.	Analyte Name	MEAN RRT	RRT	RRT QC Limits
1	PCB-1	1.0012	1.0012	0.9970 -1.0030
1	PCB-3	1.0010	1.0010	0.9970 -1.0030
2	PCB-4	1.0014	1.0016	0.9970 -1.0030
2	PCB-15	1.0006	1.0012	0.9970 -1.0030
3	PCB-19	1.0014	1.0007	0.9970 -1.0030
3	PCB-37	1.0008	1.0000	0.9970 -1.0030
4	PCB-54	1.0013	1.0008	0.9970 -1.0030
4	PCB-77	1.0006	1.0006	0.9970 -1.0030
4	PCB-81	1.0006	1.0006	0.9970 -1.0030
5	PCB-104	1.0007	1.0007	0.9970 -1.0030
5	PCB-105	1.0005	1.0007	0.9970 -1.0030
5	PCB-114	1.0004	1.0007	0.9970 -1.0030
5	PCB-118	1.0005	1.0007	0.9970 -1.0030
5	PCB-123	1.0005	1.0000	0.9970 -1.0030
5	PCB-126	1.0005	1.0000	0.9970 -1.0030
6	PCB-155	1.0005	1.0006	0.9970 -1.0030
6	PCB-156	1.0007	1.0006	0.9970 -1.0030
6	PCB-157	1.0004	1.0006	0.9970 -1.0030
6	PCB-167	1.0004	1.0006	0.9970 -1.0030
6	PCB-169	1.0001	1.0006	0.9970 -1.0030
7	PCB-188	1.0003	1.0000	0.9970 -1.0030
7	PCB-189	1.0003	1.0000	0.9970 -1.0030
8	PCB-202	1.0007	1.0000	0.9970 -1.0030
8	PCB-205	1.0003	1.0000	0.9970 -1.0030
9	PCB-206	1.0002	1.0000	0.9970 -1.0030
9	PCB-208	1.0002	1.0000	0.9970 -1.0030
10	PCB-209	1.0003	1.0004	0.9970 -1.0030

Analyst: _____ Date: 2/3/17

FORM 7B-HR

RELATIVE RELATIVE RETENTION TIME CONTINUING CALIBRATION SUMMARY

Lab Name: Frontier Analytical Lab Contract:

Lab Code: FTR Case No.: MA No.: SDG NO.:

Inst. ID: FAL4 GC Column: DB1MS ID: 0.25 (mm) EPA Sample No.:1668 CS3 R161111B

Init. Calib. Date: 08/11/2016 Date Analyzed: 31-JAN-17

Init. Calib. Time: 12:25:59 Time Anayzed: 13:11:08

CL No.	Analyte Name	MEAN RRT	RRT	RRT QC Limits	
1	13C-PCB-1	0.7297	0.7307	0.7200 -	0.7400
1	13C-PCB-3	0.8531	0.8532	0.8450 -	0.8600
2	13C-PCB-4	0.9147	0.9149	0.9100 -	0.9200
2	13C-PCB-15	1.1960	1.1947	1.1850 -	1.2100
3	13C-PCB-19	1.1110	1.1110	1.1000 -	1.1500
3	13C-PCB-37	1.0499	1.0502	1.0200 -	1.0800
4	13C-PCB-54	0.8840	0.8843	0.8750 -	0.8950
4	13C-PCB-77	1.0602	1.0602	1.0450 -	1.0750
4	13C-PCB-81	1.0438	1.0438	1.0350 -	1.0500
5	13C-PCB-104	1.0379	1.0378	1.0300 -	1.0500
5	13C-PCB-105	0.9608	0.9605	0.9550 -	0.9700
5	13C-PCB-114	0.9411	0.9413	0.9350 -	0.9550
5	13C-PCB-118	0.9262	0.9262	0.9150 -	0.9400
5	13C-PCB-123	0.9221	0.9222	0.9150 -	0.9400
5	13C-PCB-126	1.0124	1.0125	1.0000 -	1.0200
6	13C-PCB-155	0.9872	0.9872	0.9760 -	1.0430
6	13C-PCB-156	1.0743	1.0745	1.0600 -	1.0800
6	13C-PCB-157	1.0806	1.0804	1.0750 -	1.0900
6	13C-PCB-167	1.0448	1.0448	1.0350 -	1.0550
6	13C-PCB-169	1.1264	1.1259	1.1100 -	1.1300
7	13C-PCB-188	0.9550	0.9552	0.9450 -	0.9650
7	13C-PCB-189	1.1663	1.1661	1.1500 -	1.1750
8	13C-PCB-202	1.0782	1.0784	1.0700 -	1.0900
8	13C-PCB-205	1.0049	1.0051	1.0000 -	1.0100
9	13C-PCB-206	1.0288	1.0300	1.0200 -	1.0400
9	13C-PCB-208	0.9863	0.9859	0.9750 -	0.9950
10	13C-PCB-209	1.0524	1.0548	1.0450 -	1.0650
3	13C-PCB-28	0.9220	0.9222	0.9150 -	0.9300
5	13C-PCB-111	1.0476	1.0480	1.0400 -	1.0550
7	13C-PCB-178	1.0186	1.0185	1.0100 -	1.0250

Analyst: Date: 2/3/17

Frontier Analytical Laboratory - Acquisition Log

Run Name:31JAN17Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

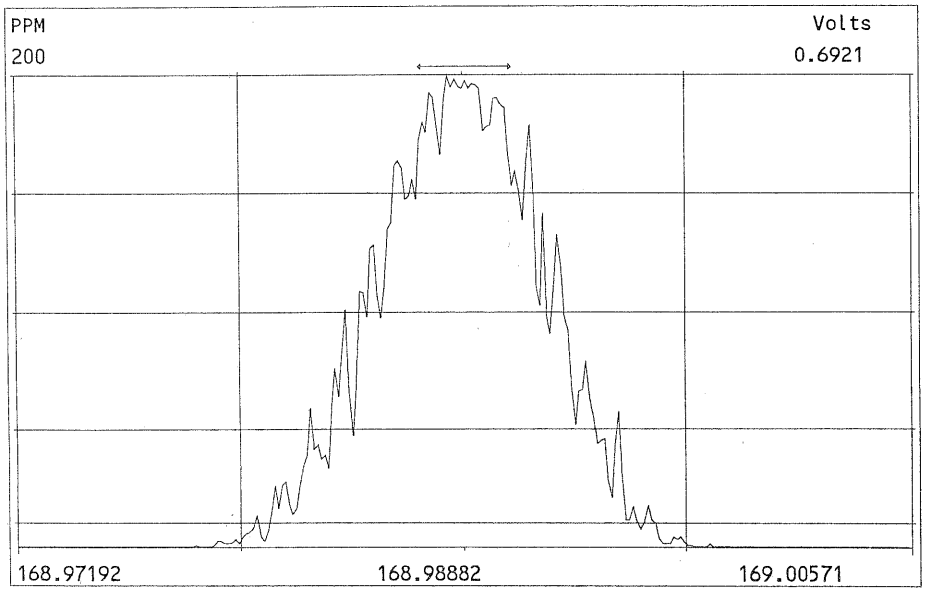
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
31JAN17Z	1	ST013117Z1	1668 CS3 R161111B	31-JAN-17 13:11:08	ST013117Z1	ST013117Z2	BS
31JAN17Z	2	SS013117Z1	Daily 209 161019A	31-JAN-17 14:09:52	ST013117Z1	ST013117Z2	BS
31JAN17Z	3	03991-001-0001-OPR	OPR	31-JAN-17 15:08:36	ST013117Z1	ST013117Z2	BS
31JAN17Z	4	03991-001-0001-MB	Method Blank	31-JAN-17 16:06:55	ST013117Z1	ST013117Z2	BS
31JAN17Z	5	10398-001-0001-SA	LDW-BA-SU-ENR+AC-CA-S010	31-JAN-17 17:05:39	ST013117Z1	ST013117Z2	BS
31JAN17Z	6	10398-002-0001-SA	LDW-BA-SU-ENR+AC-CB-S010	31-JAN-17 18:03:58	ST013117Z1	ST013117Z2	BS
31JAN17Z	7	10398-003-0001-SA	LDW-BA-SU-ENR+AC-CC-S010	31-JAN-17 19:02:18	ST013117Z1	ST013117Z2	BS
31JAN17Z	8	10398-004-0001-SA	LDW-BA-SU-ENR-CA-S010	31-JAN-17 20:00:38	ST013117Z1	ST013117Z2	BS
31JAN17Z	9	10398-005-0001-SA	LDW-BA-SU-ENR-CB-S010	31-JAN-17 20:58:58	ST013117Z1	ST013117Z2	BS
31JAN17Z	10	10398-006-0001-SA	LDW-BA-SU-ENR-CC-S010	31-JAN-17 21:57:17	ST013117Z1	ST013117Z2	BS
31JAN17Z	11	10398-007-0001-SA	LDW-BA-SU-S010-LCB-EXSITU	31-JAN-17 22:55:37	ST013117Z1	ST013117Z2	BS
31JAN17Z	12	SB013117Z1	Solvent Blank	31-JAN-17 23:53:57	ST013117Z1	ST013117Z2	BS
31JAN17Z	13	ST013117Z2	1668 CS3 R161111B	1-FEB-17 00:52:16	ST013117Z1	ST013117Z2	BS

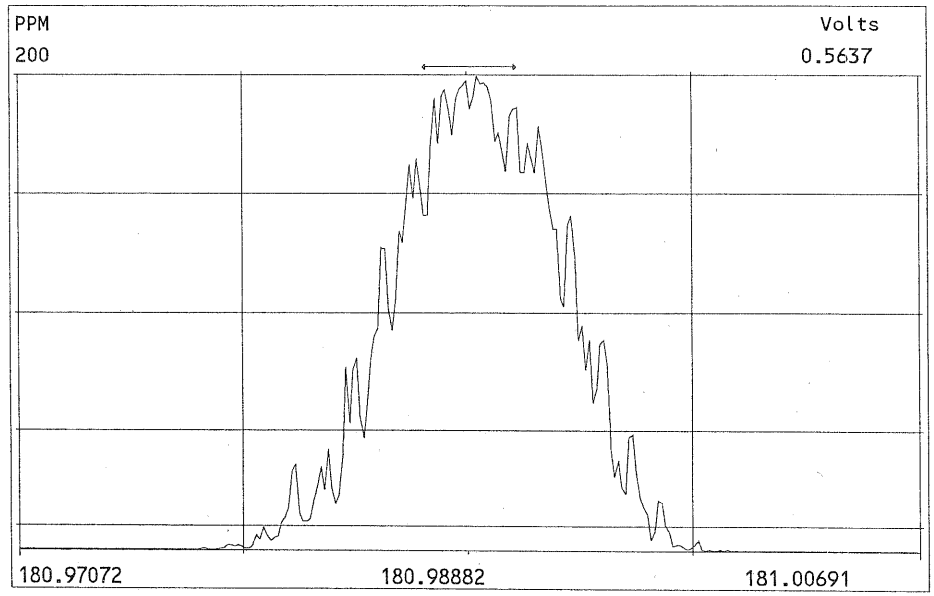
8 2/1/17

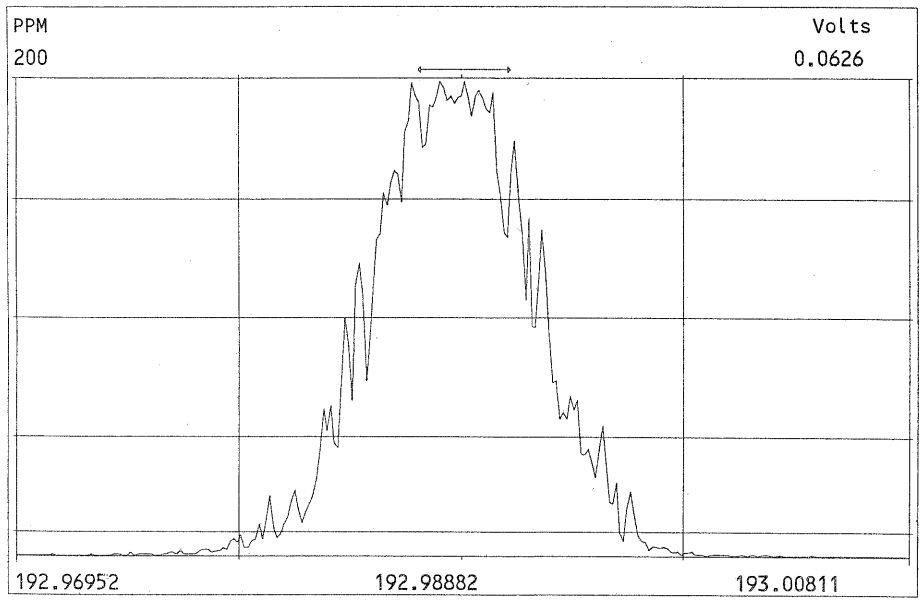
Data Backed Up:_____

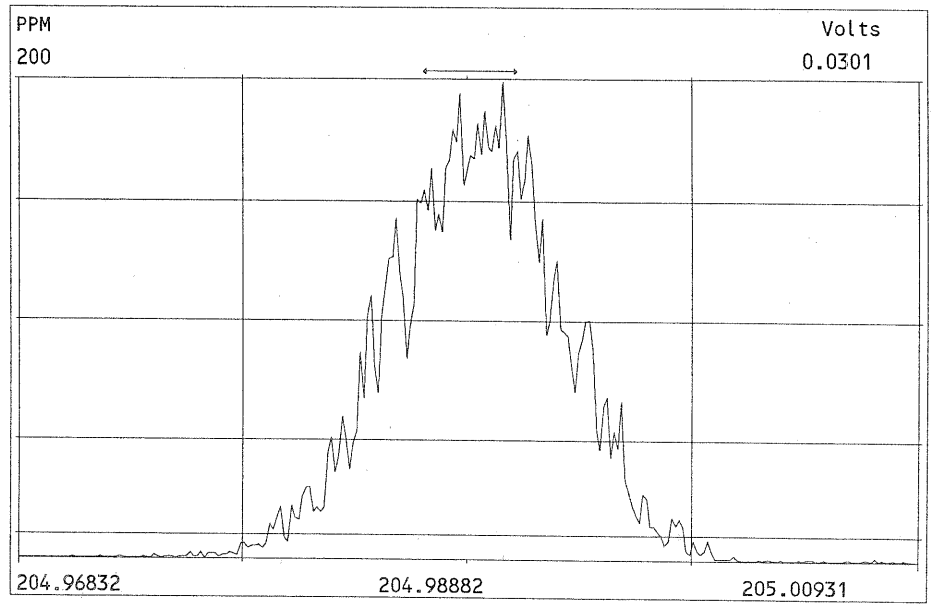
Date:_____

Peak Locate Examination:31-JAN-2017:13:08 File:31JAN17Z
Experiment:1668PCB Function:1 Reference:PFK

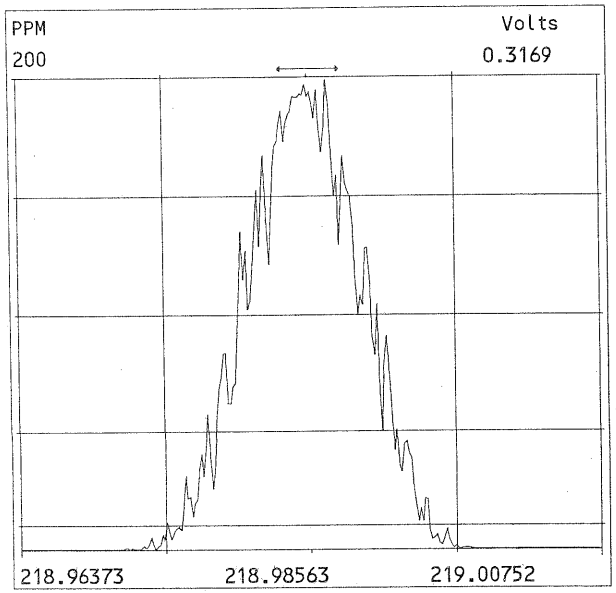


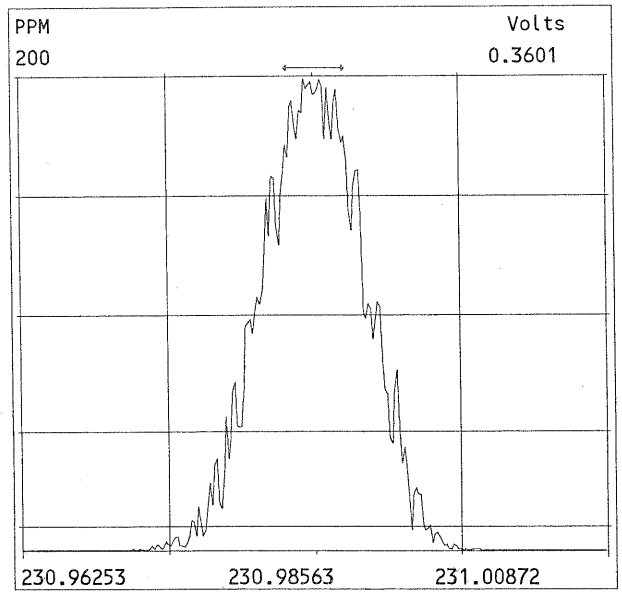


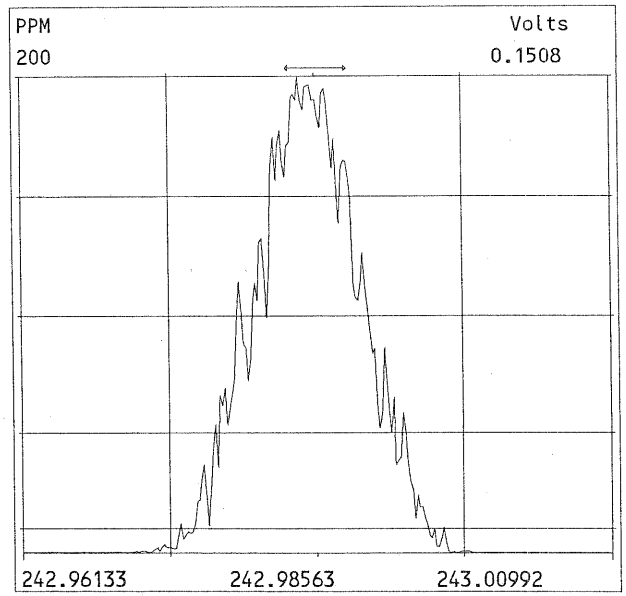


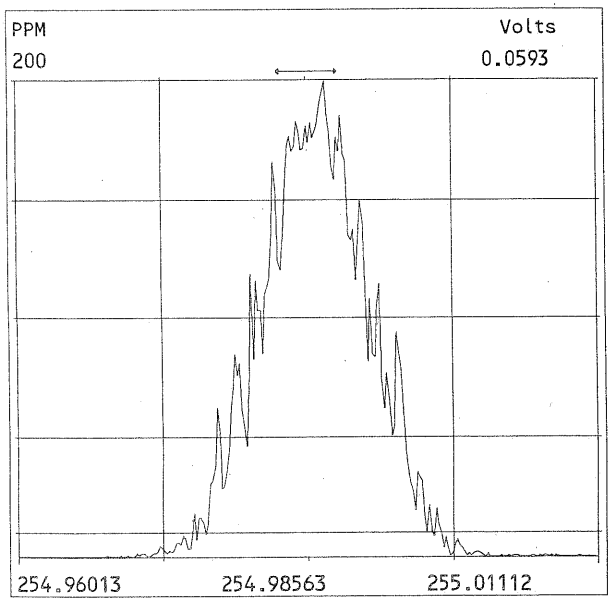


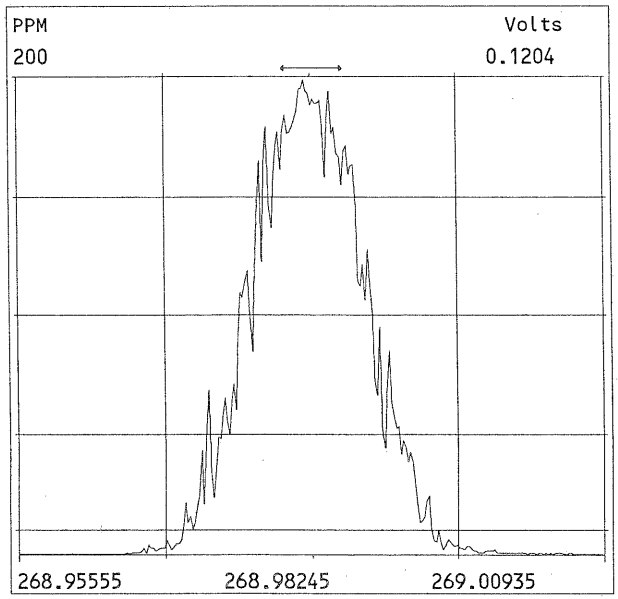
Peak Locate Examination:31-JAN-2017:13:08 File:31JAN17Z
Experiment:1668PCB Function:2 Reference:PFK

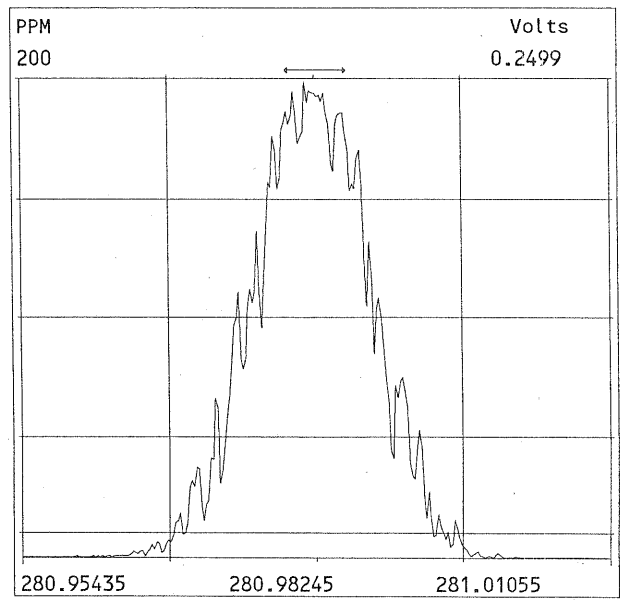




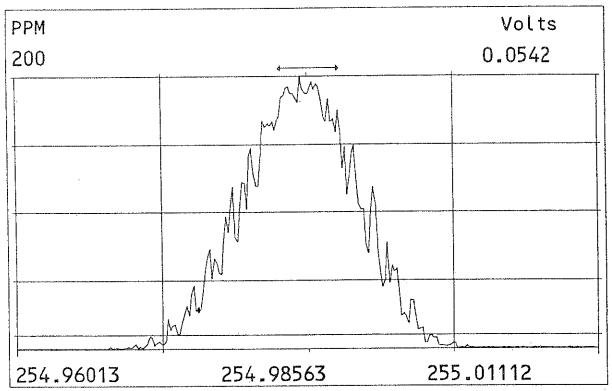


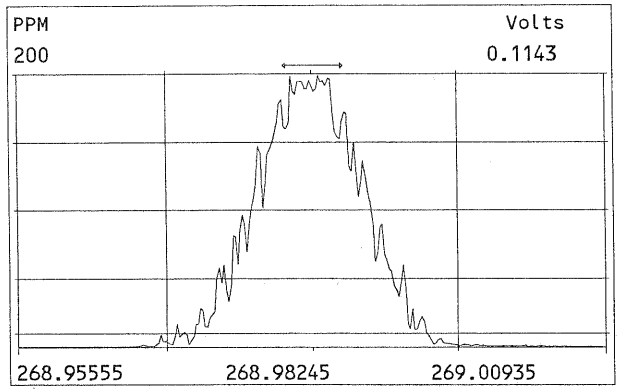


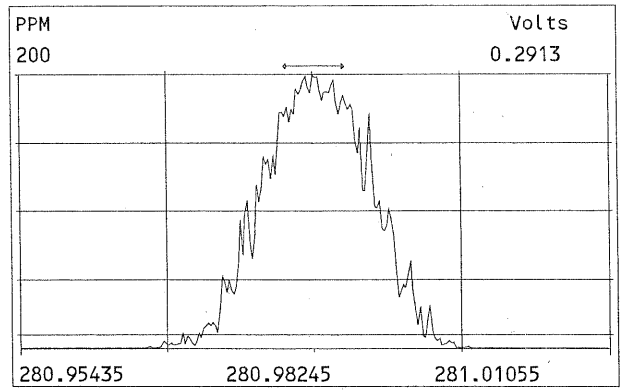


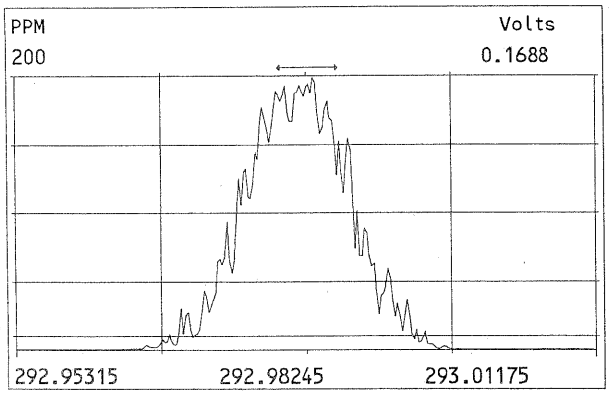


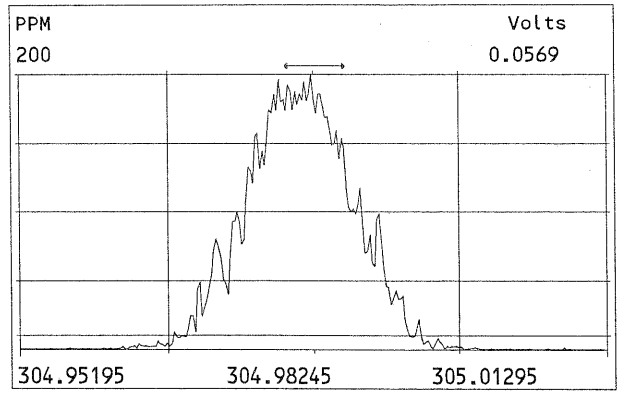
Peak Locate Examination:31-JAN-2017:13:09 File:31JAN17Z
Experiment:1668PCB Function:3 Reference:PFK

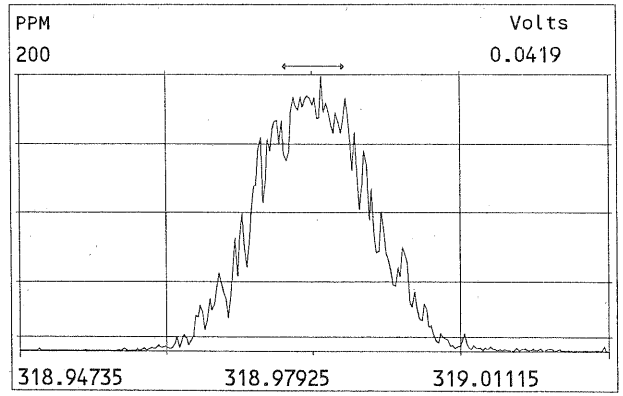


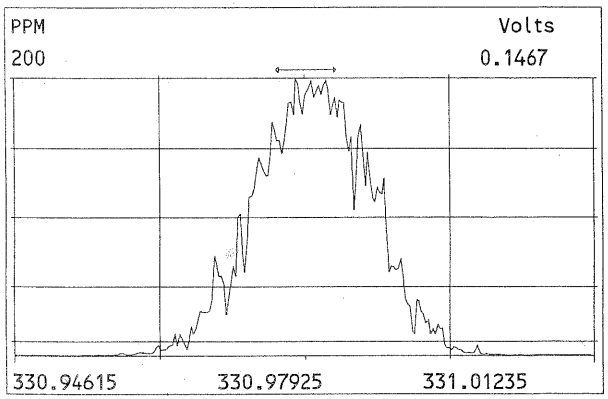


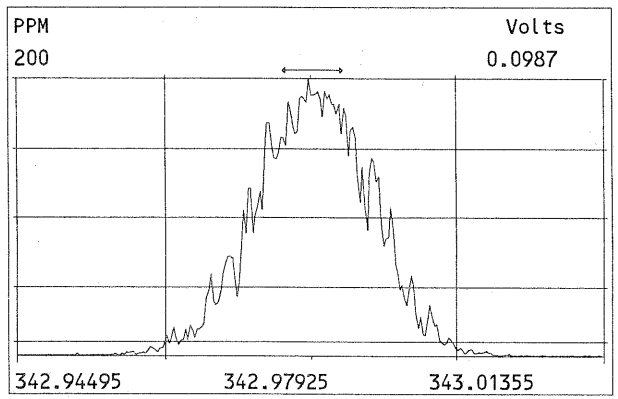




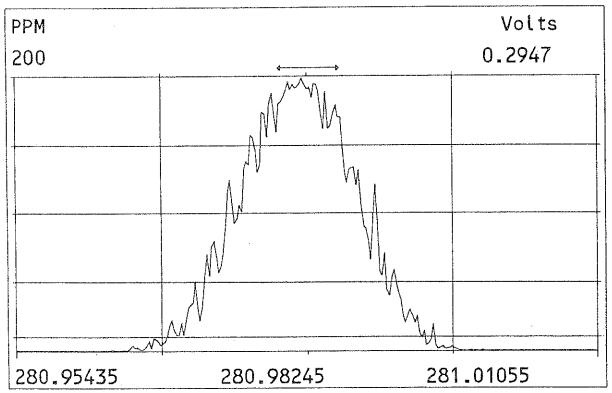


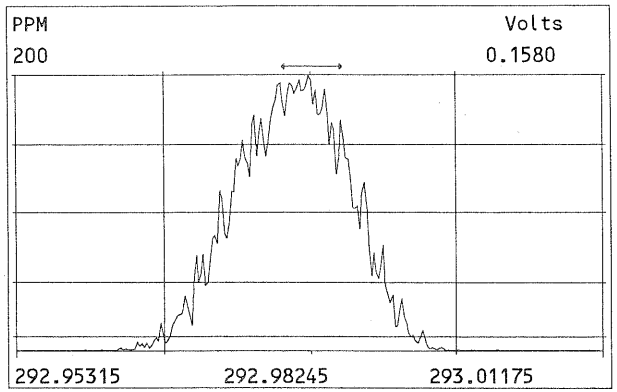


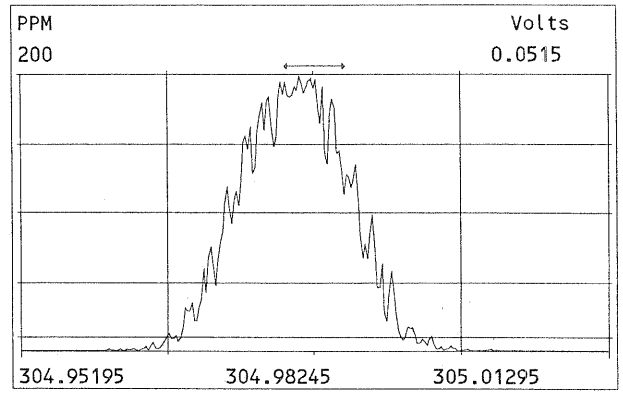


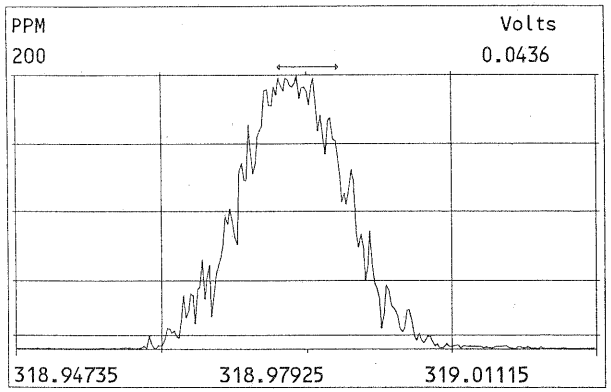


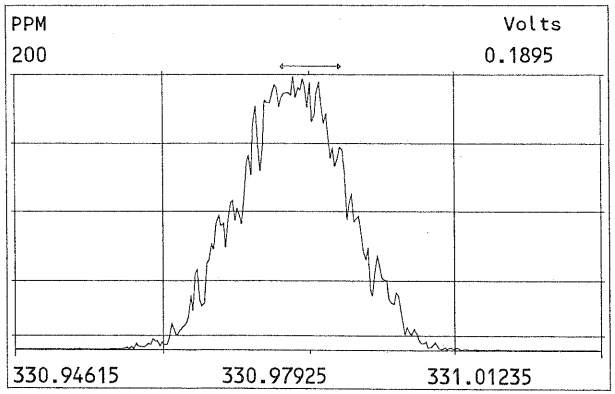
Peak Locate Examination:31-JAN-2017:13:09 File:31JAN17Z
Experiment:1668PCB Function:4 Reference:PFK

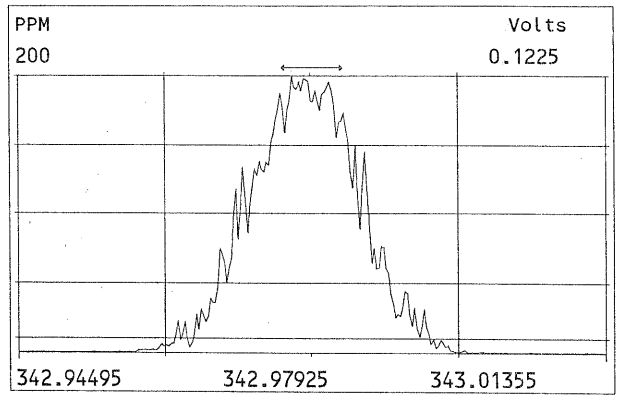


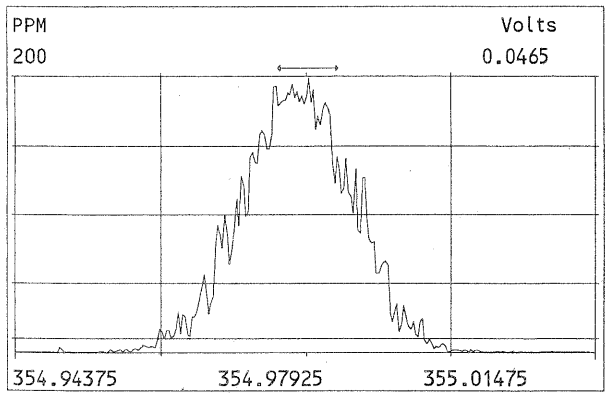


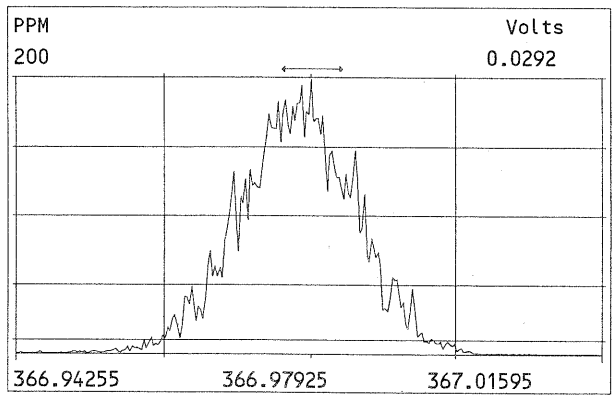


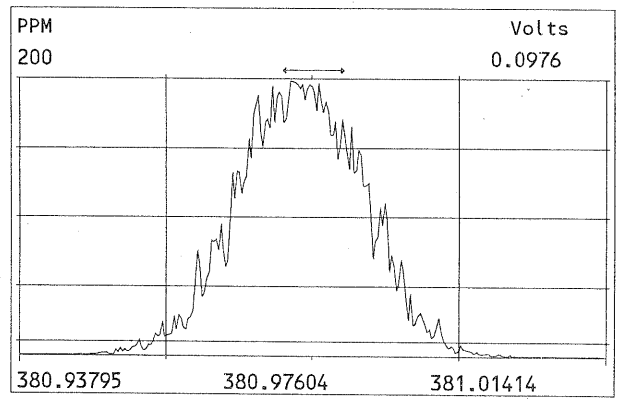




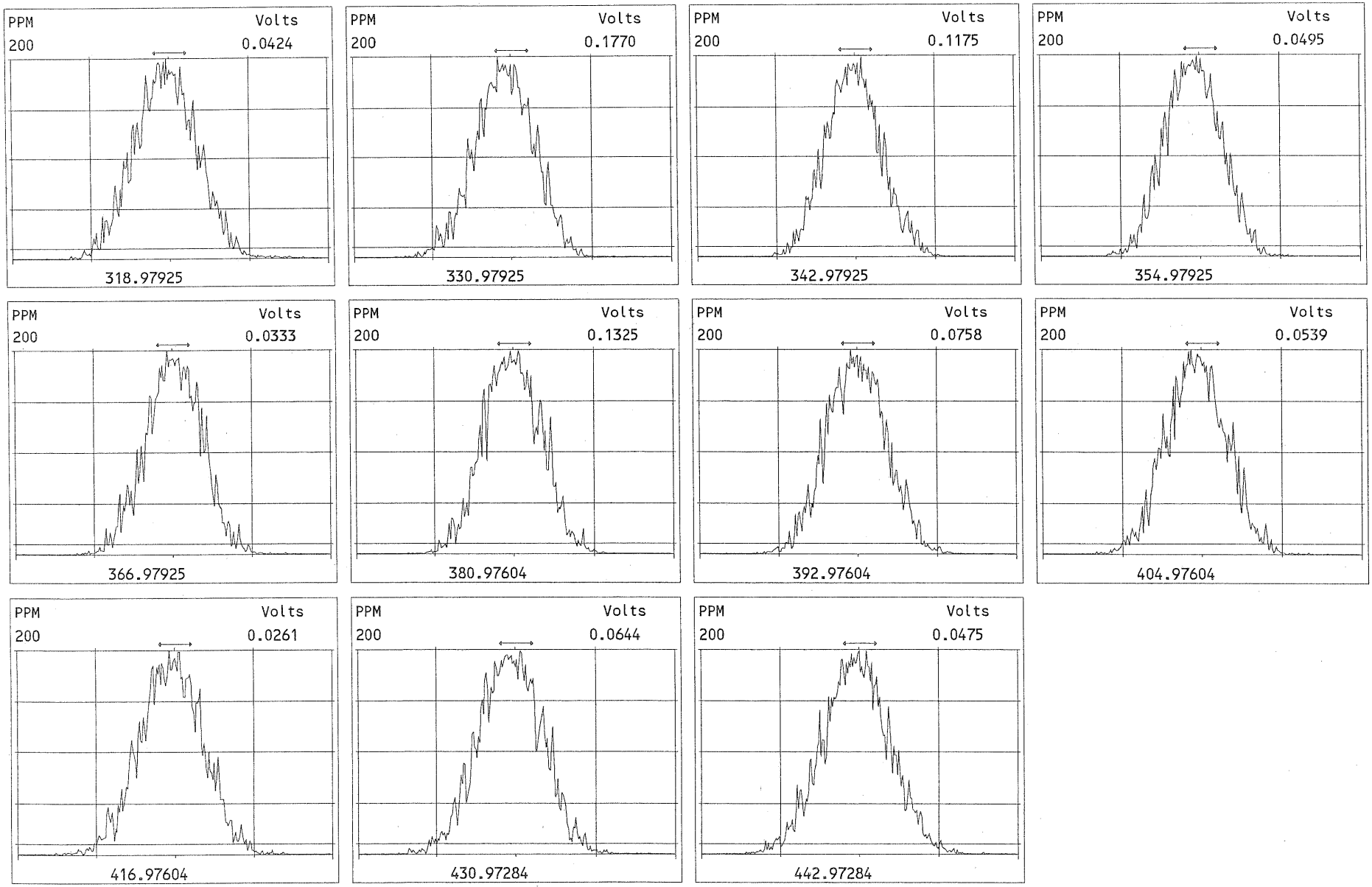




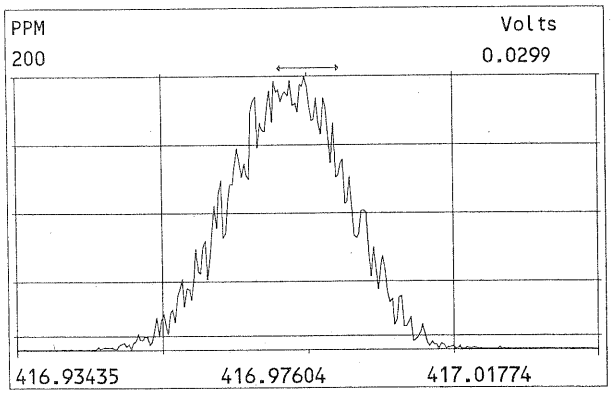


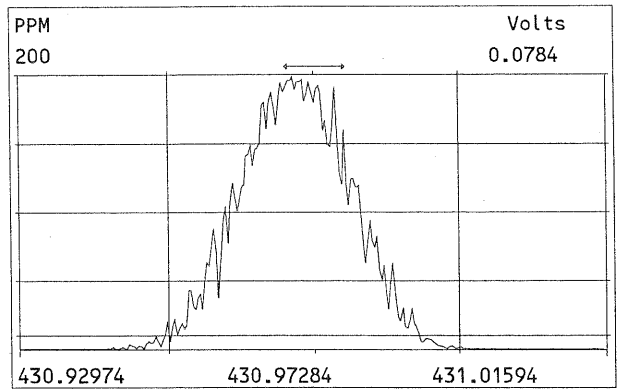


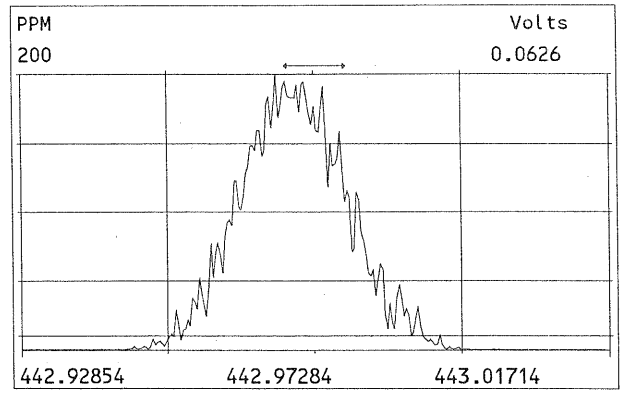
Peak Locate Examination:31-JAN-2017:13:10 File:31JAN17Z
Experiment:1668PCB Function:5 Reference:PFK

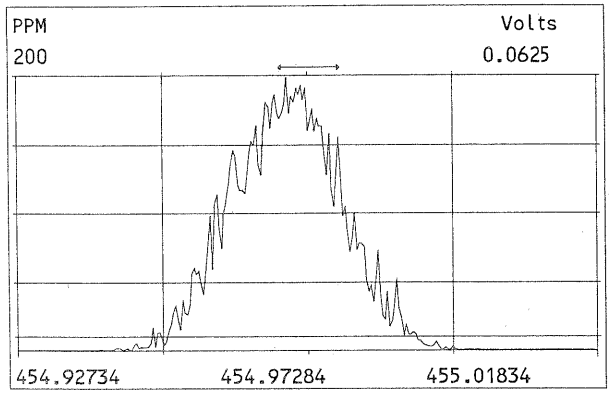


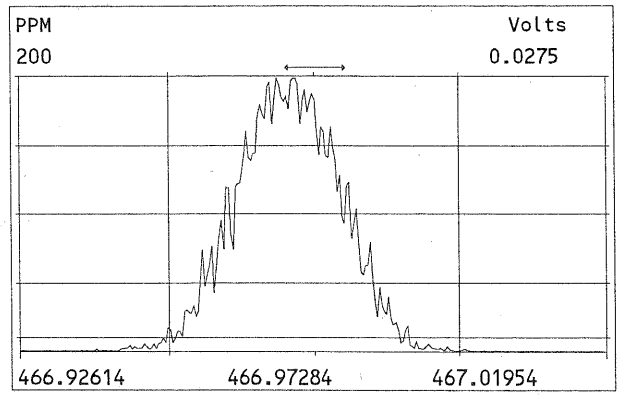
Peak Locate Examination:31-JAN-2017:13:10 File:31JAN17Z
Experiment:1668PCB Function:6 Reference:PFK

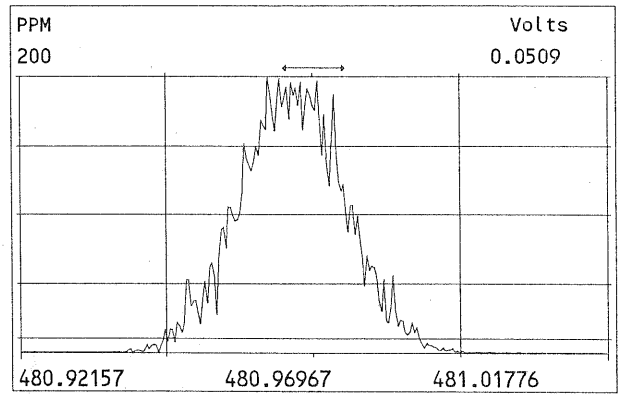


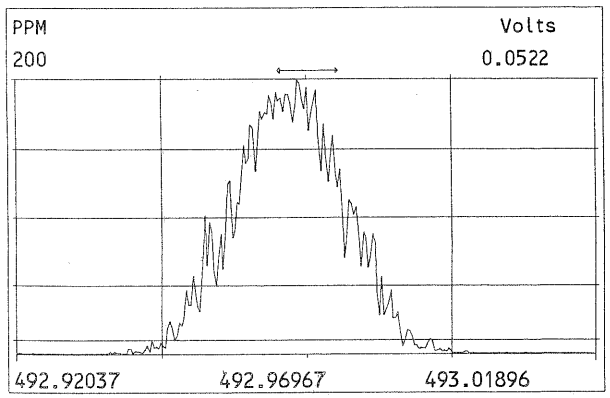


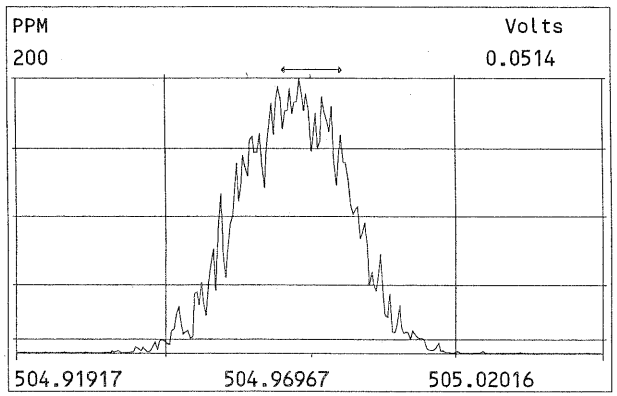


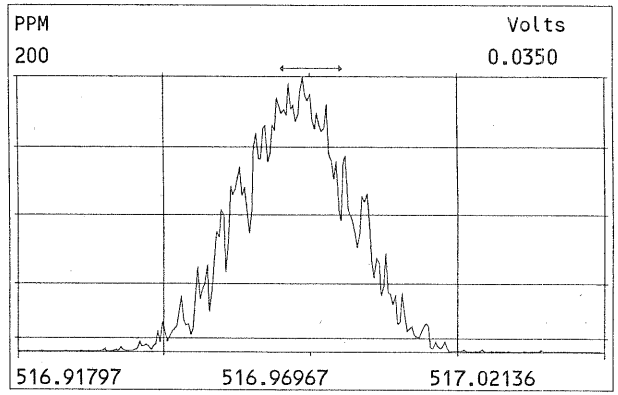




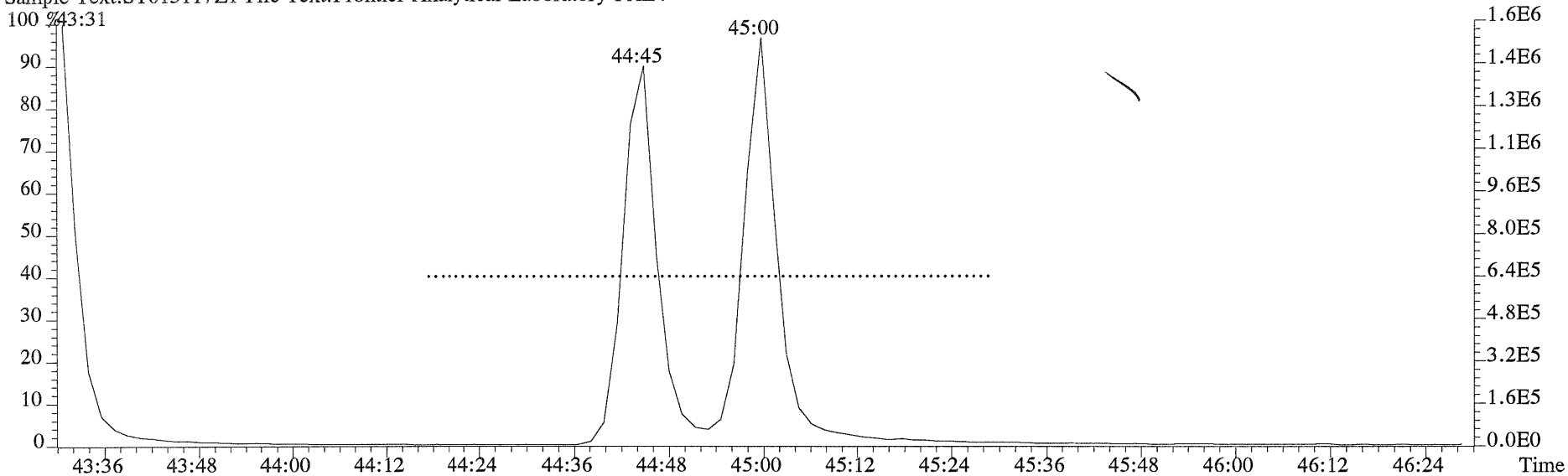




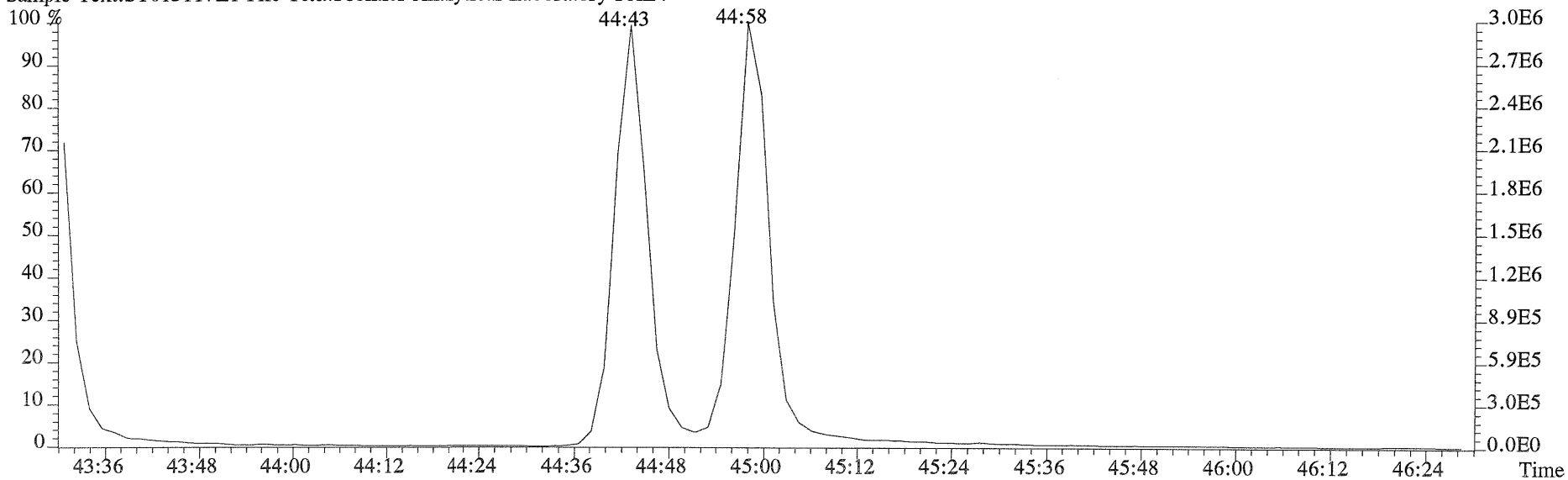




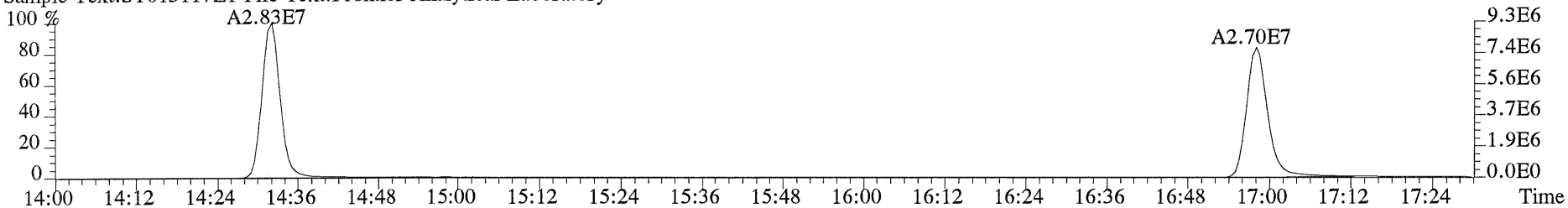
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory FAL4



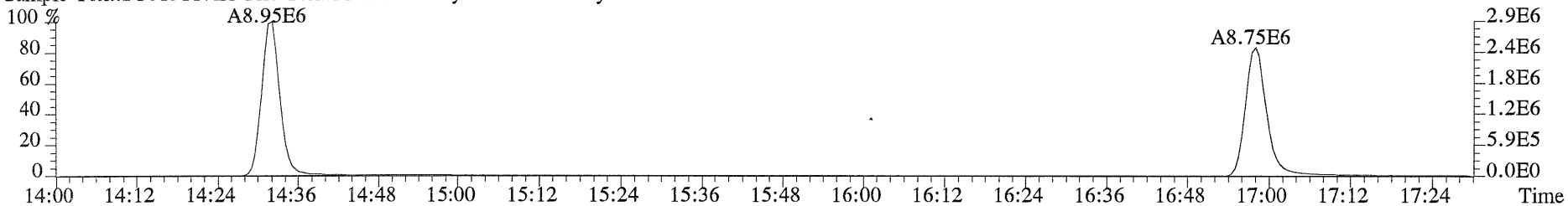
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory FAL4



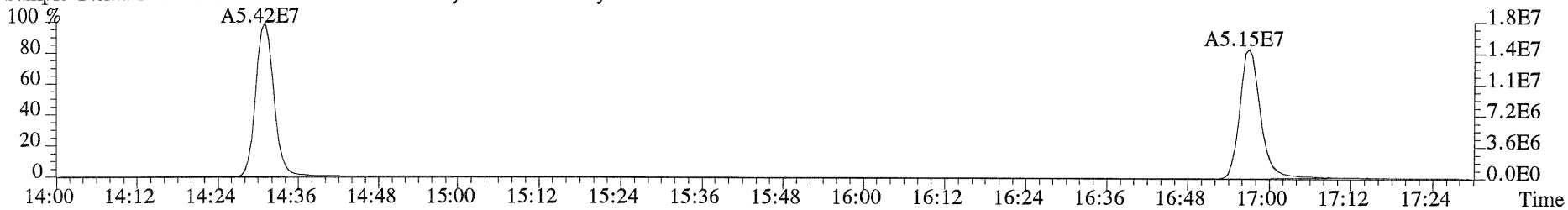
File:31JAN17Z #1-784 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



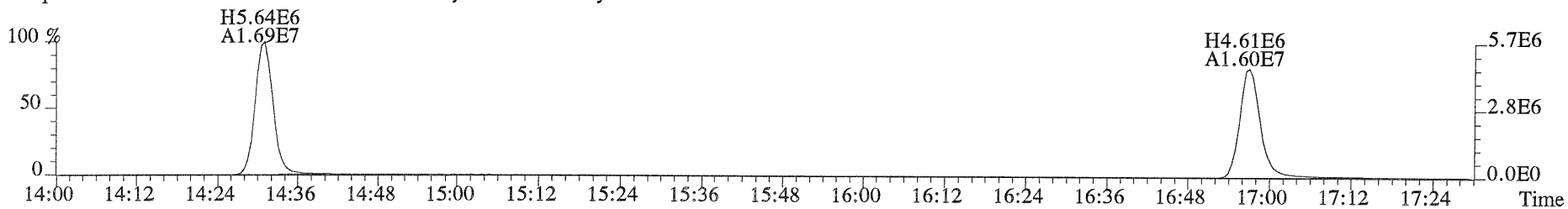
File:31JAN17Z #1-784 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



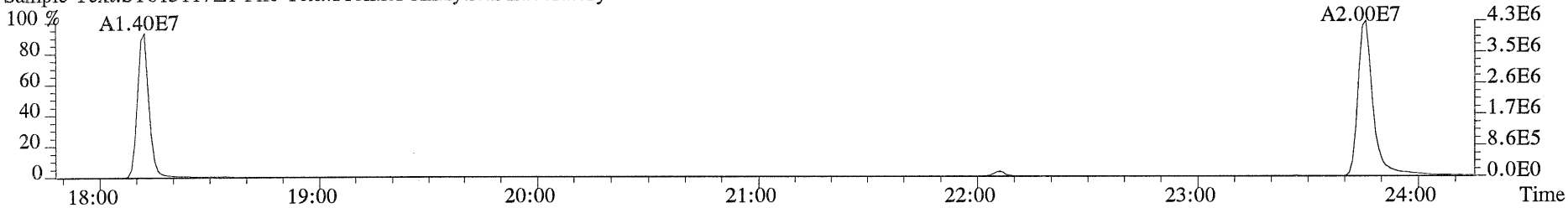
File:31JAN17Z #1-784 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



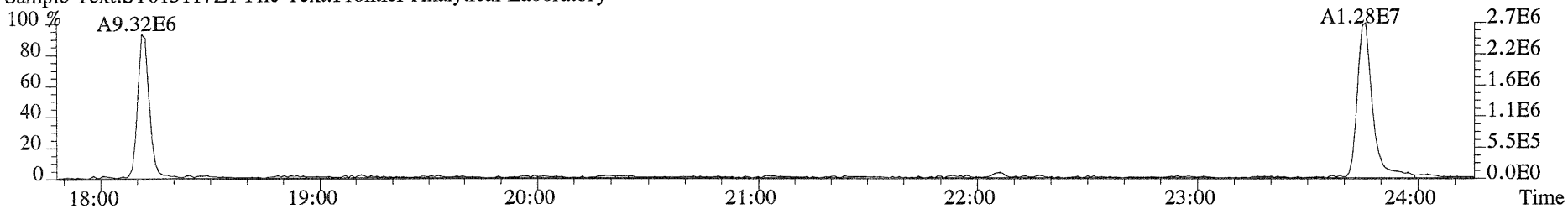
File:31JAN17Z #1-784 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



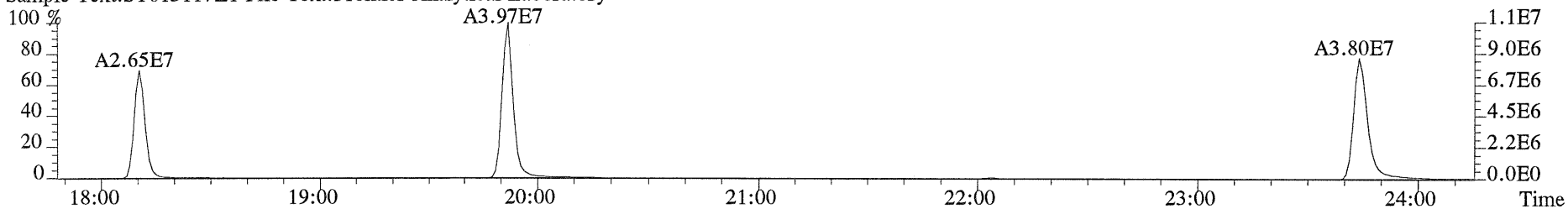
File:31JAN17Z #1-509 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



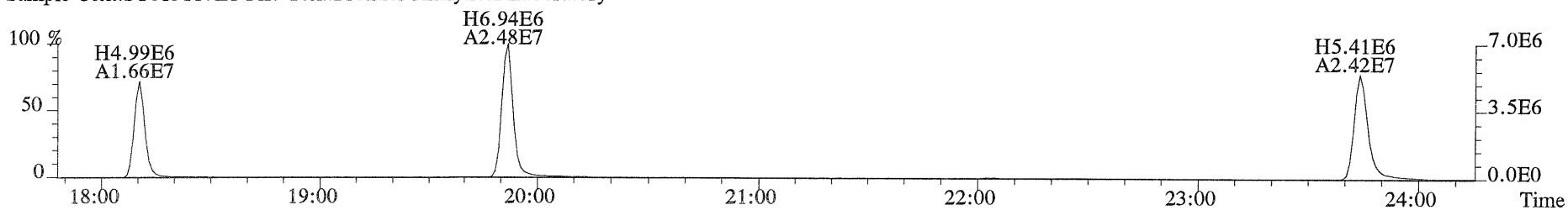
File:31JAN17Z #1-509 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



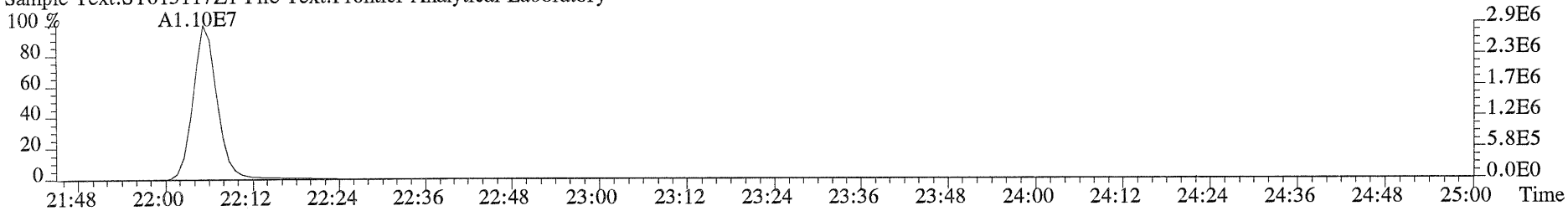
File:31JAN17Z #1-509 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



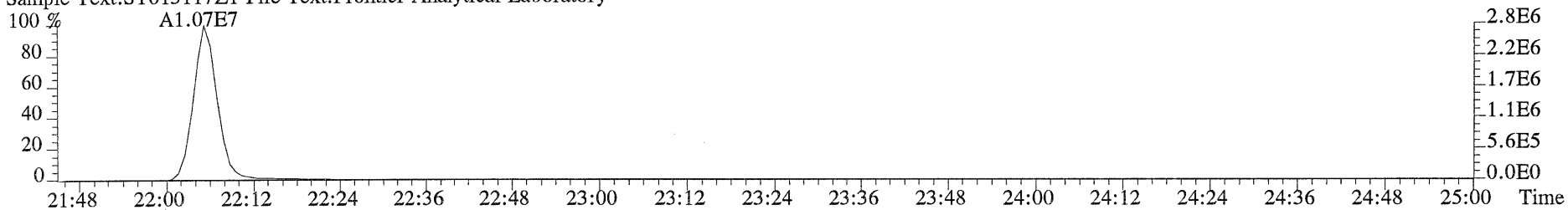
File:31JAN17Z #1-509 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



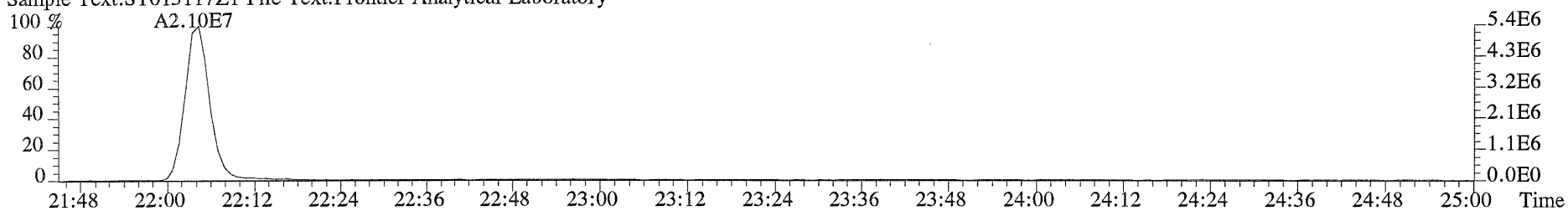
File:31JAN17Z #1-509 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



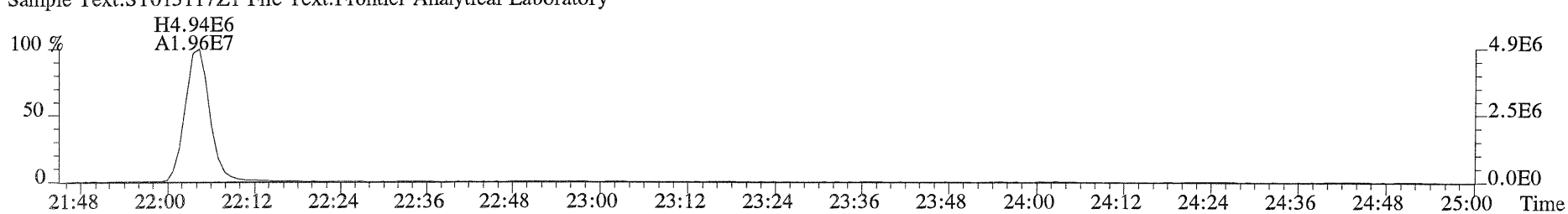
File:31JAN17Z #1-509 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



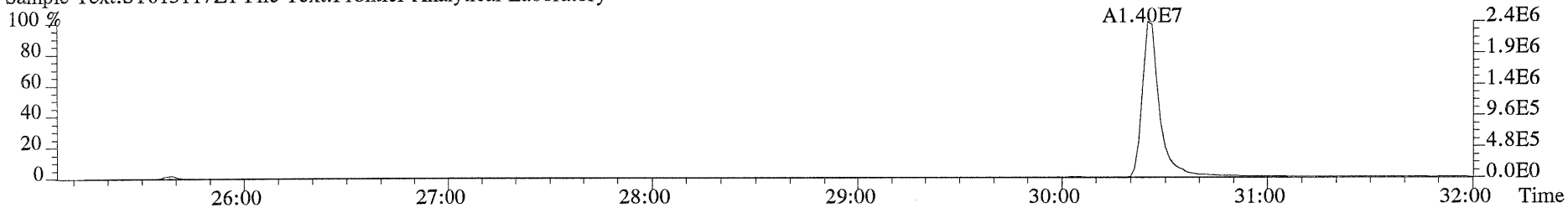
File:31JAN17Z #1-509 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



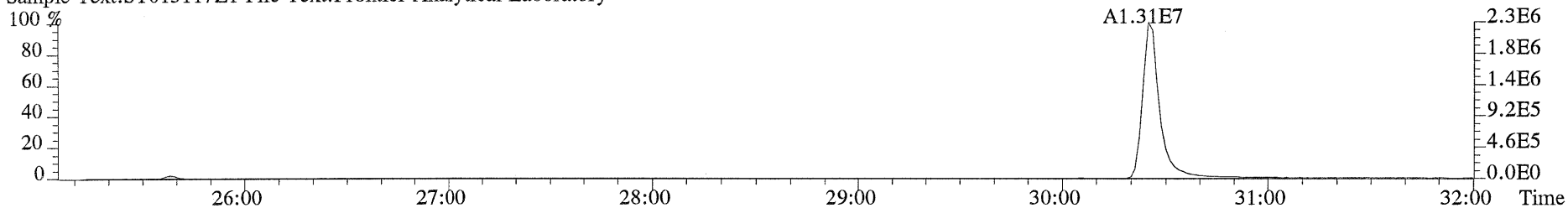
File:31JAN17Z #1-509 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



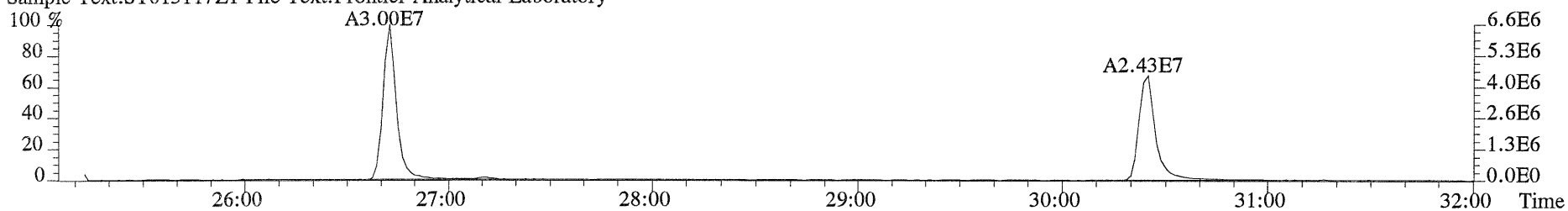
File:31JAN17Z #1-407 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



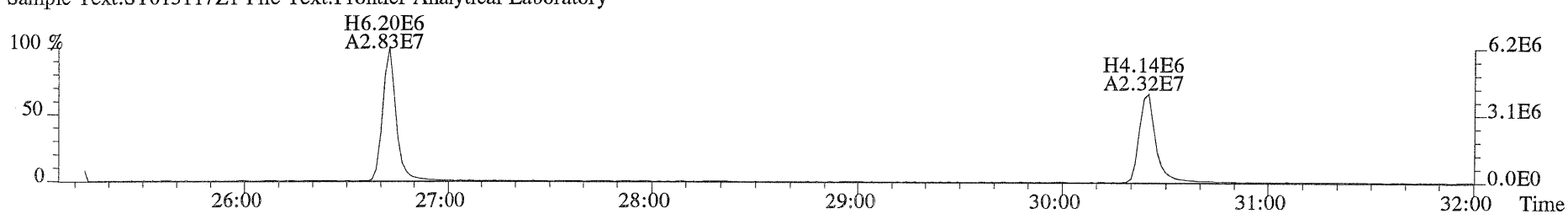
File:31JAN17Z #1-407 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



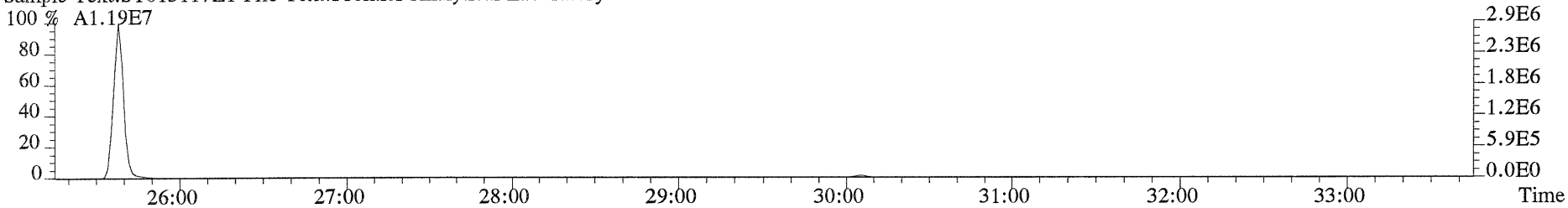
File:31JAN17Z #1-407 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



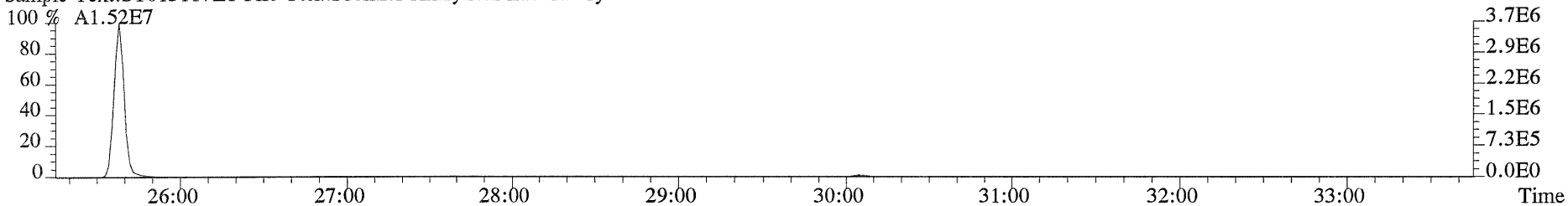
File:31JAN17Z #1-407 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



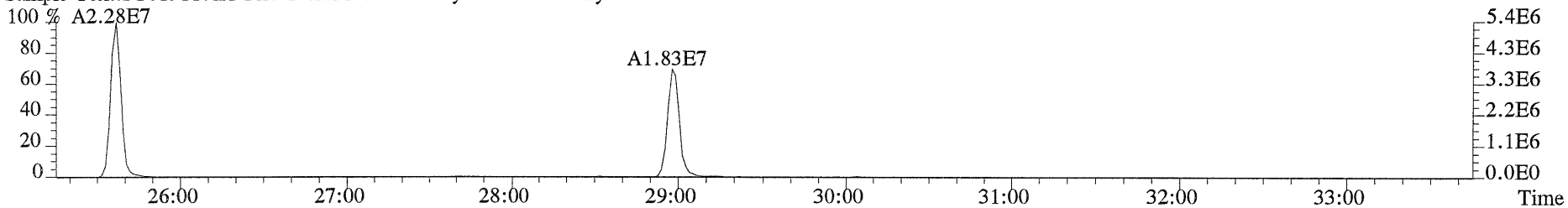
File:31JAN17Z #1-407 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



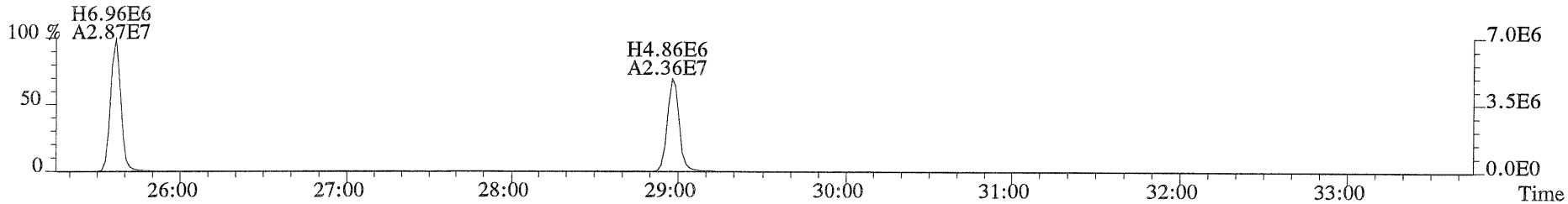
File:31JAN17Z #1-407 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



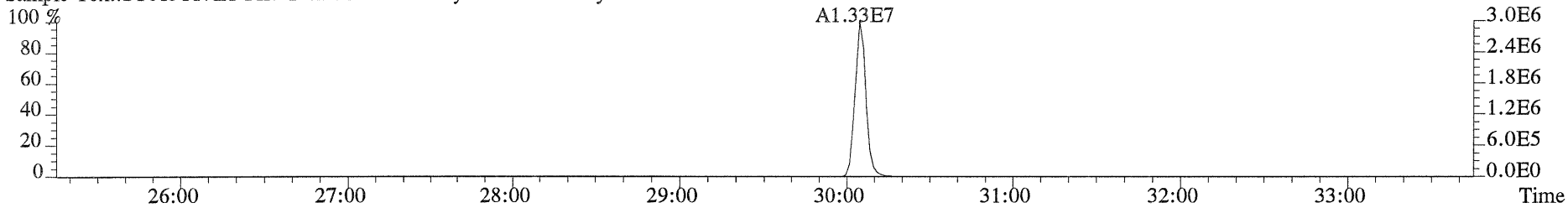
File:31JAN17Z #1-407 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



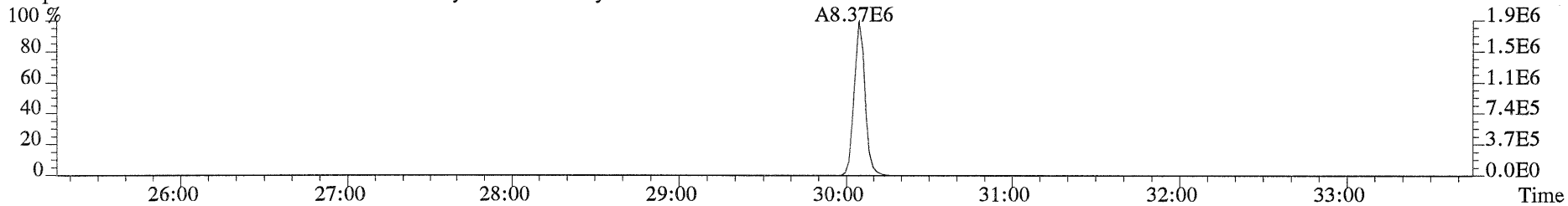
File:31JAN17Z #1-407 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



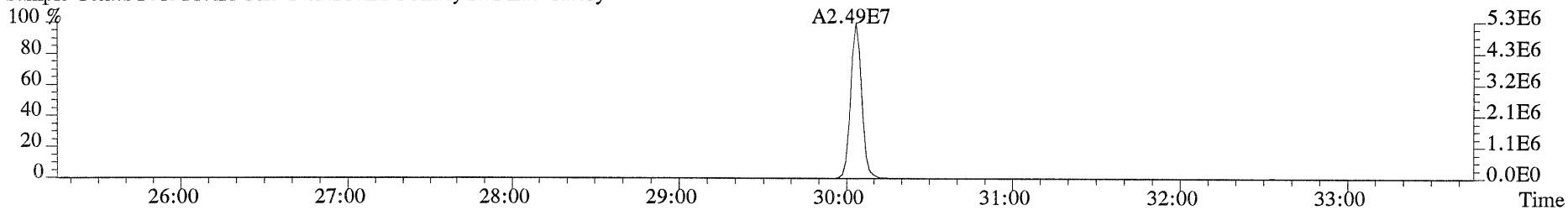
File:31JAN17Z #1-407 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



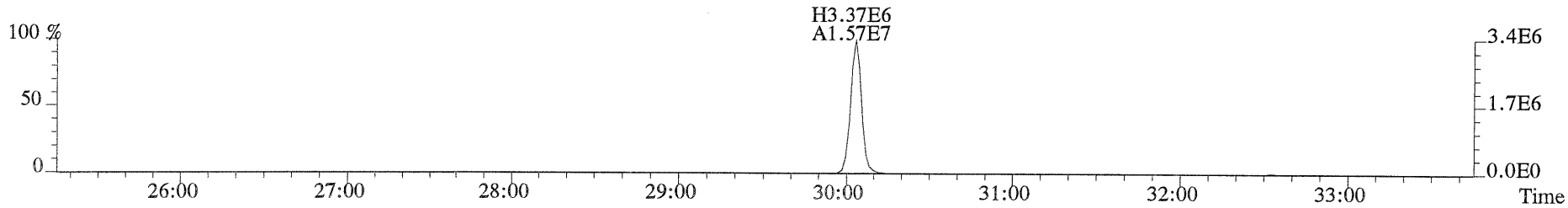
File:31JAN17Z #1-407 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



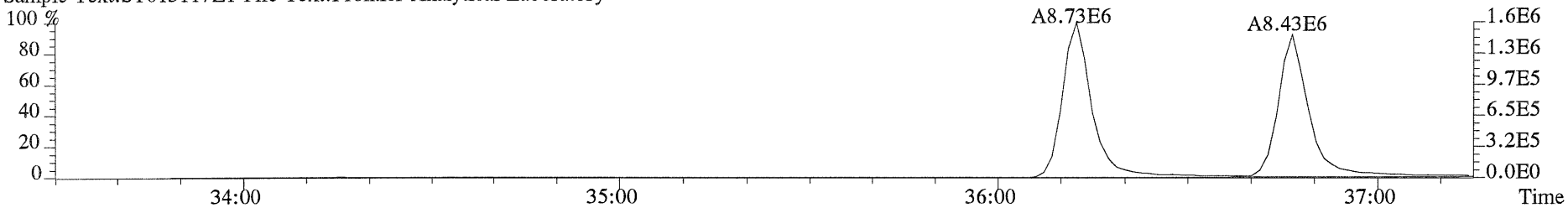
File:31JAN17Z #1-407 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



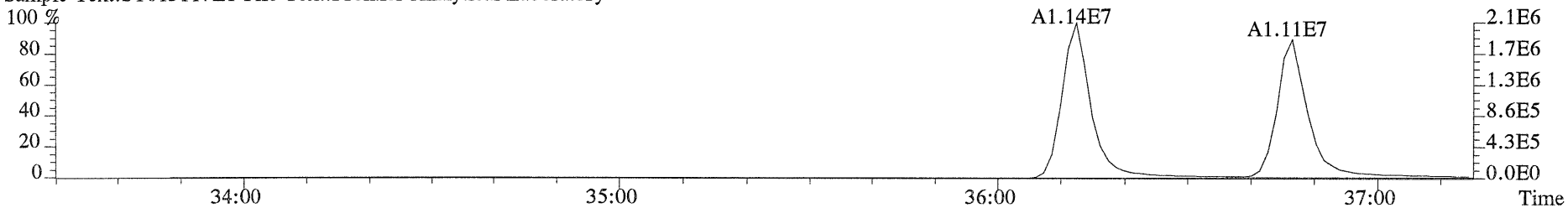
File:31JAN17Z #1-407 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-181 Acq:31-JAN-2017 13:11:08 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:ST013117Z1 File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-181 Acq:31-JAN-2017 13:11:08 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:ST013117Z1 File Text:Frontier Analytical Laboratory



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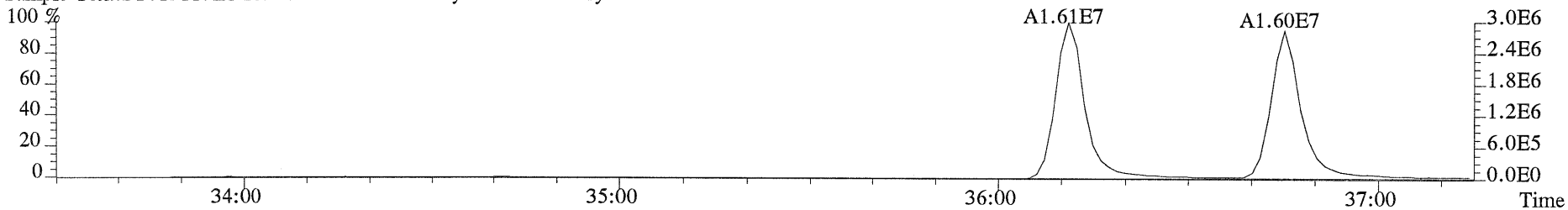
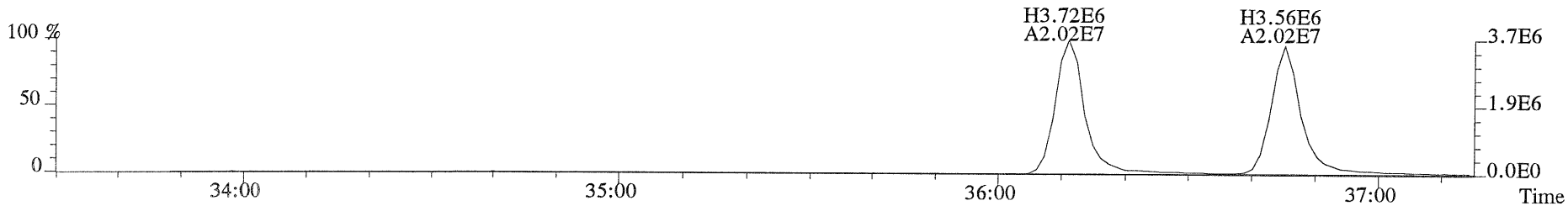
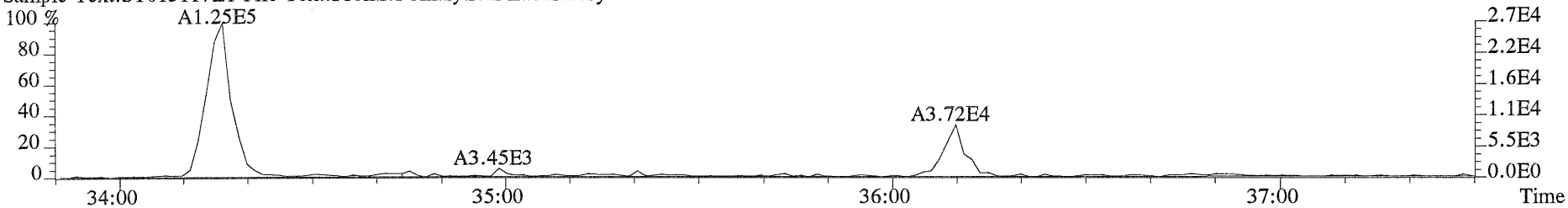
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



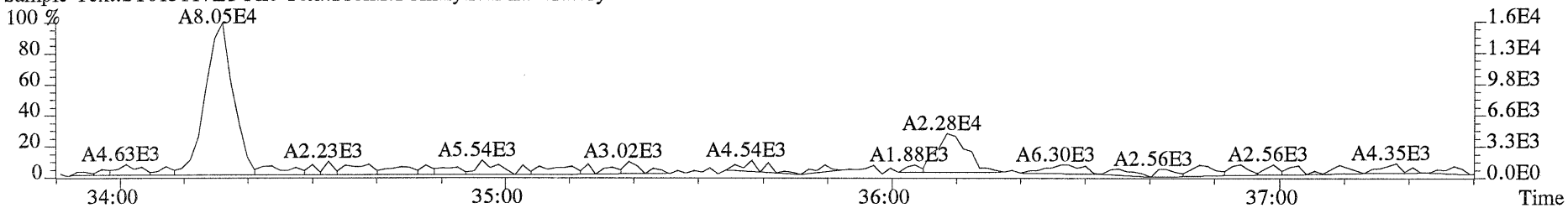
File:31JAN17Z #1-181 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



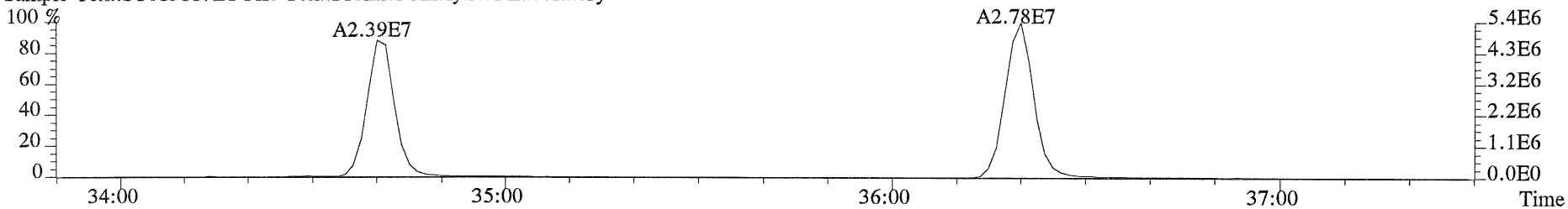
File:31JAN17Z #1-181 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



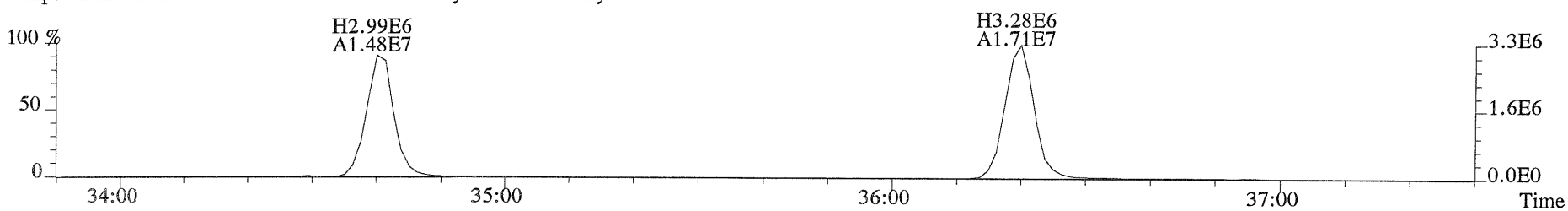
File:31JAN17Z #1-181 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



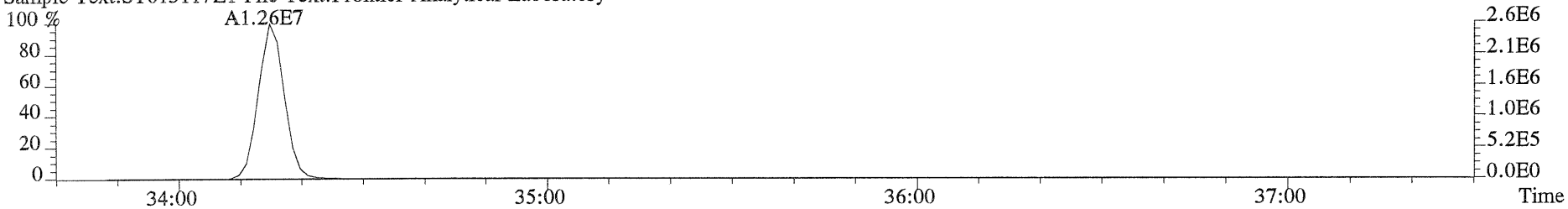
File:31JAN17Z #1-181 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



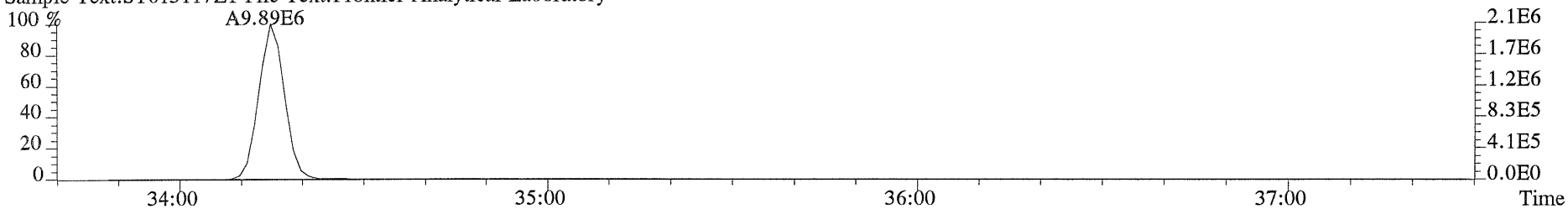
File:31JAN17Z #1-181 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



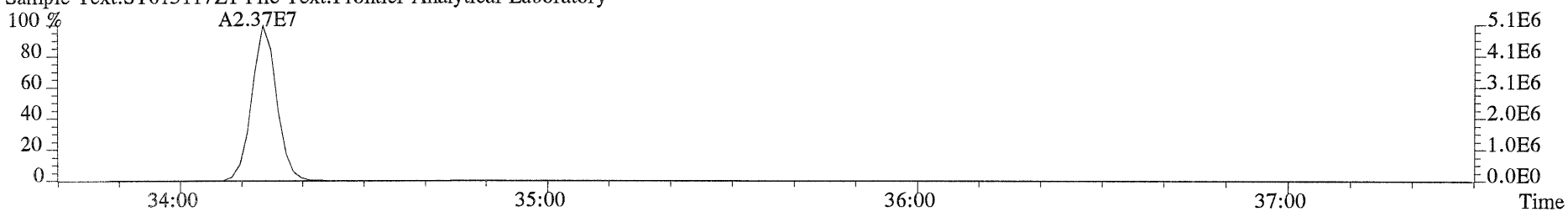
File:31JAN17Z #1-181 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



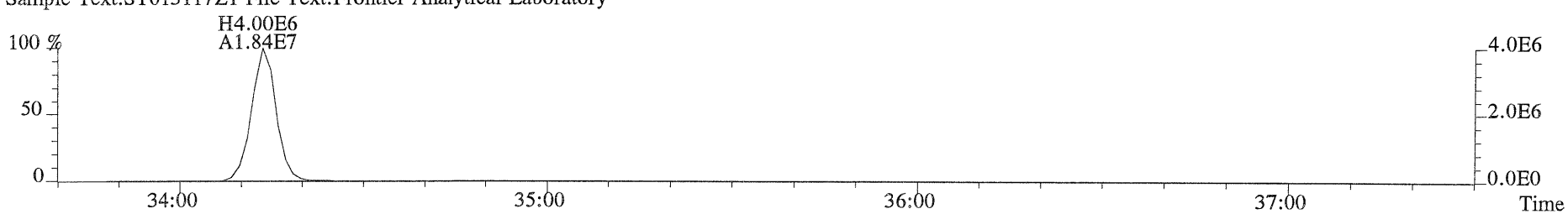
File:31JAN17Z #1-181 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



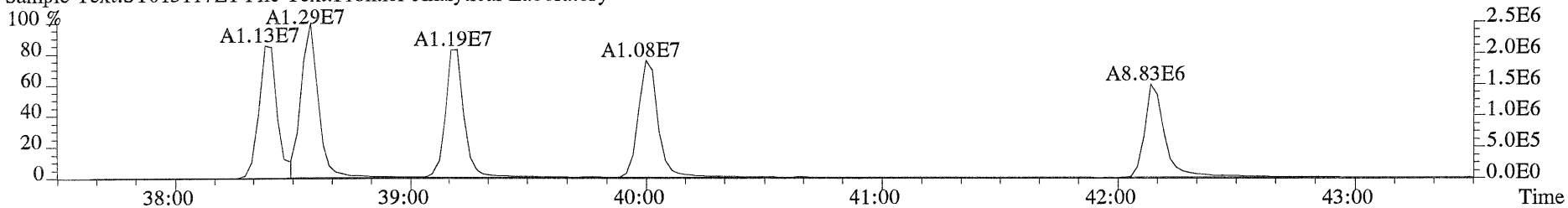
File:31JAN17Z #1-181 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



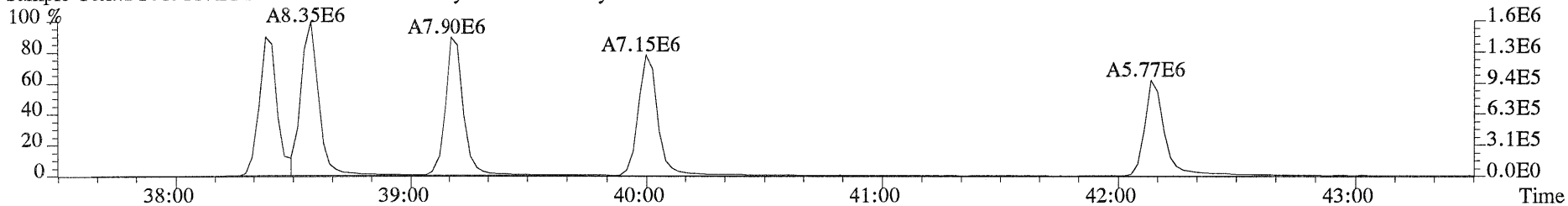
File:31JAN17Z #1-181 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



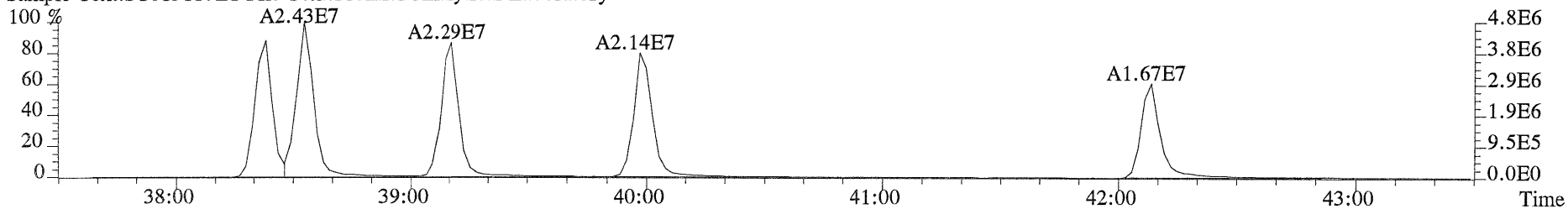
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



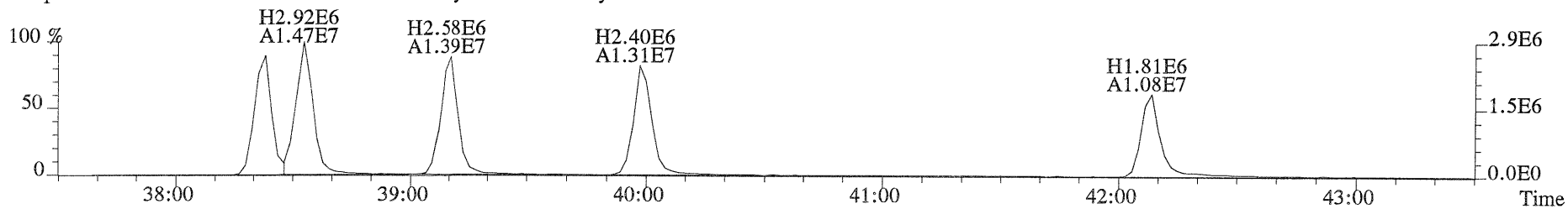
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



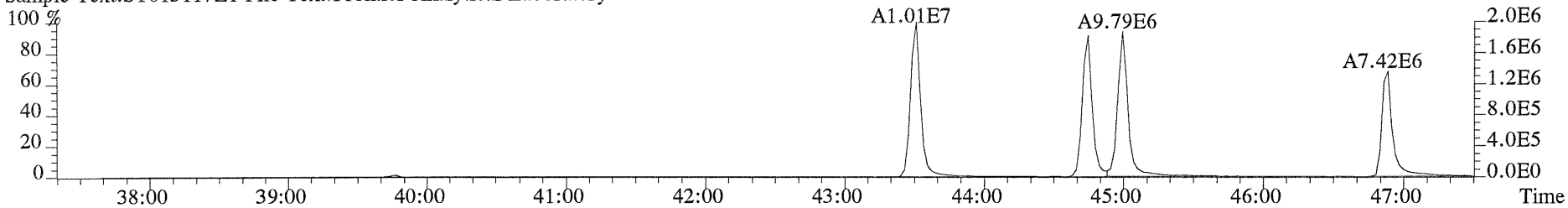
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



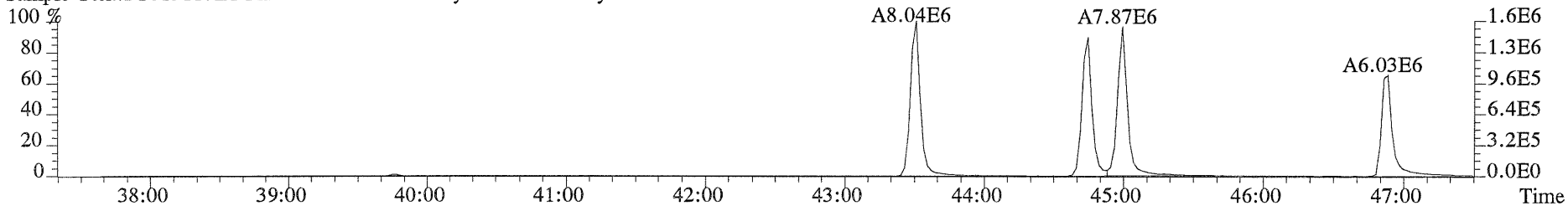
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



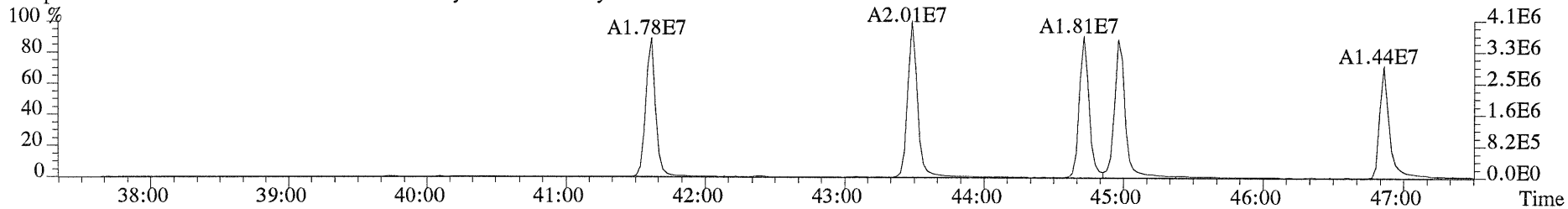
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



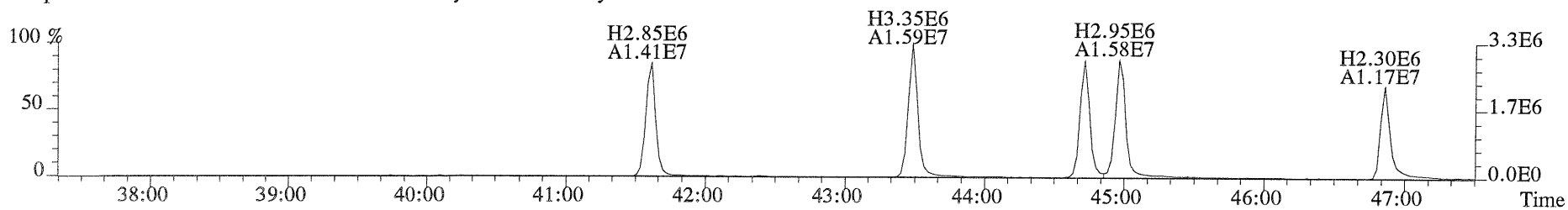
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



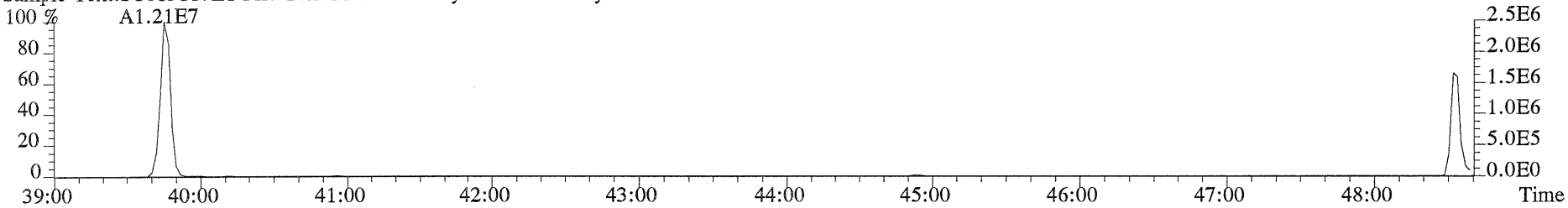
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



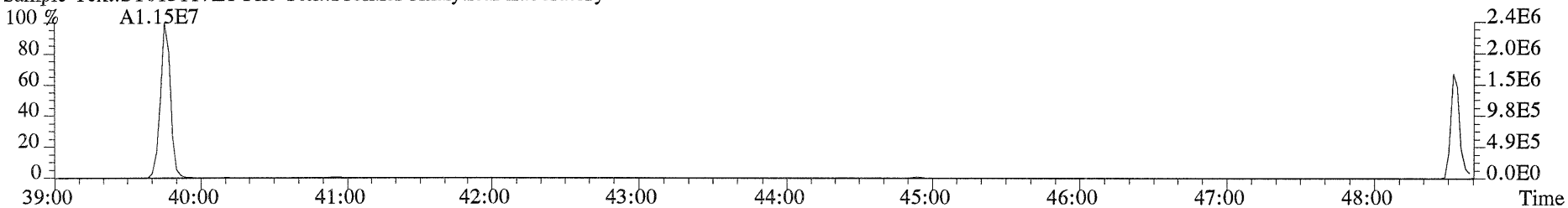
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



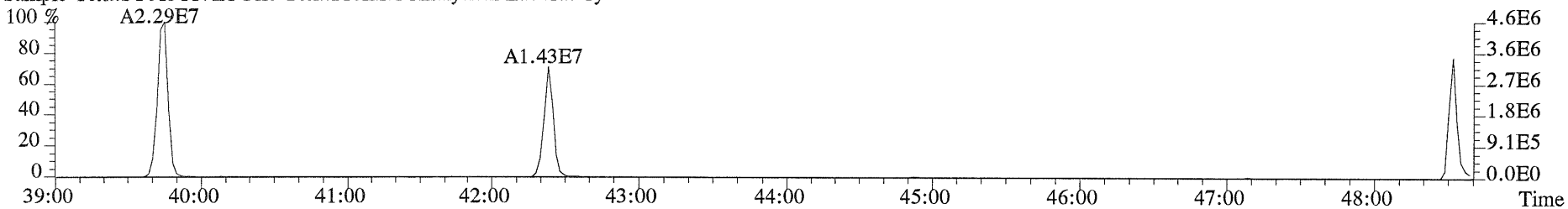
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



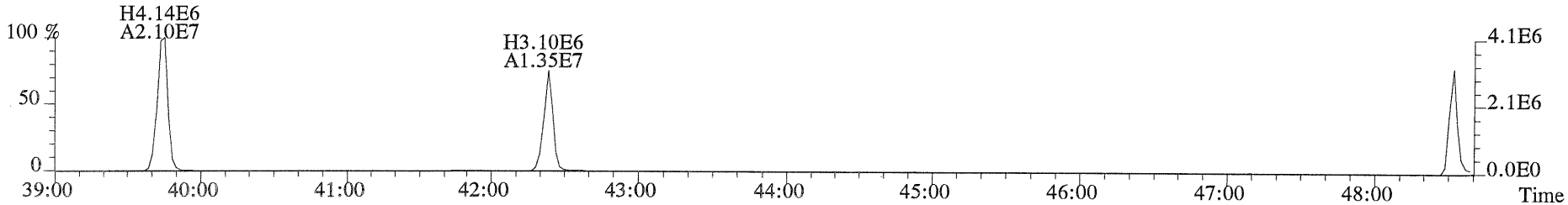
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



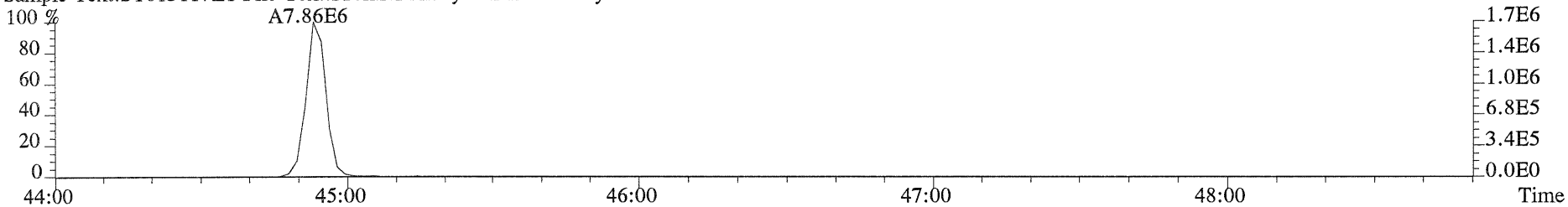
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



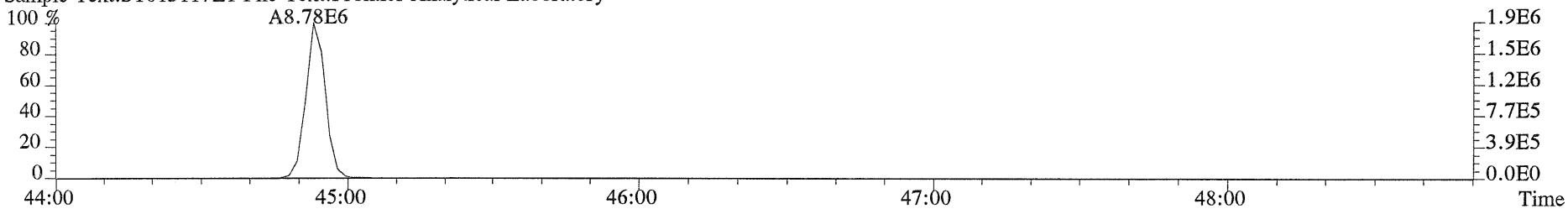
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



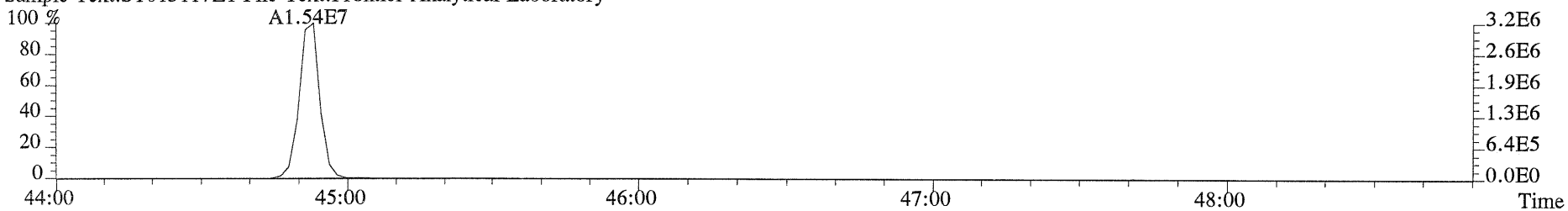
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



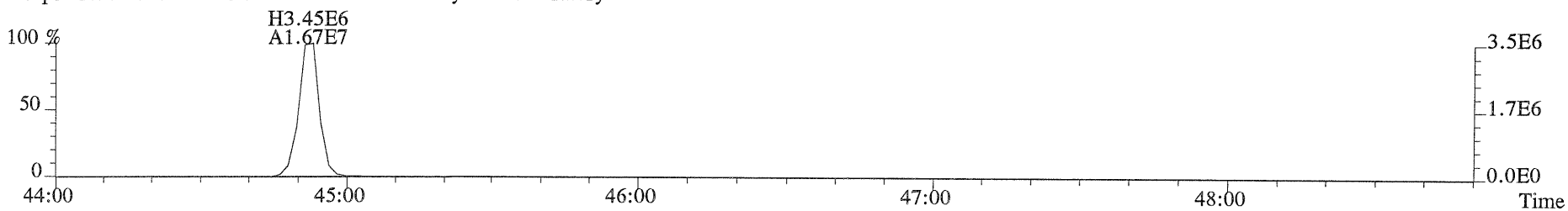
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



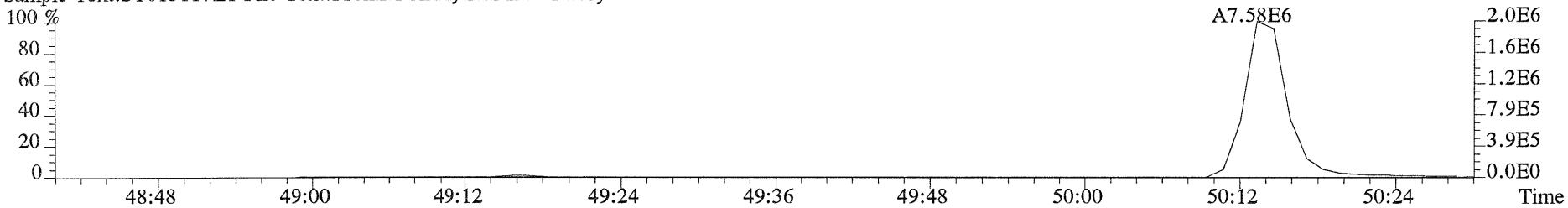
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



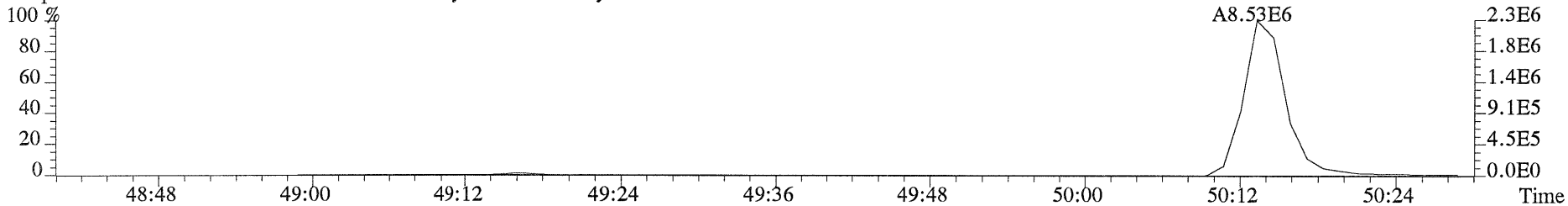
File:31JAN17Z #1-413 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



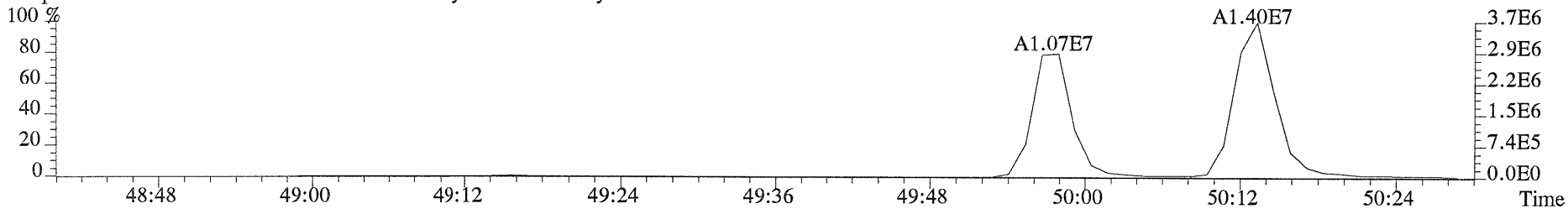
File:31JAN17Z #1-306 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



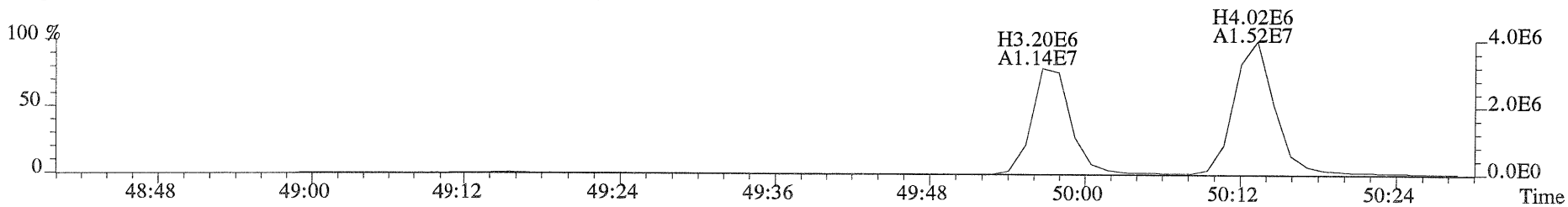
File:31JAN17Z #1-306 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



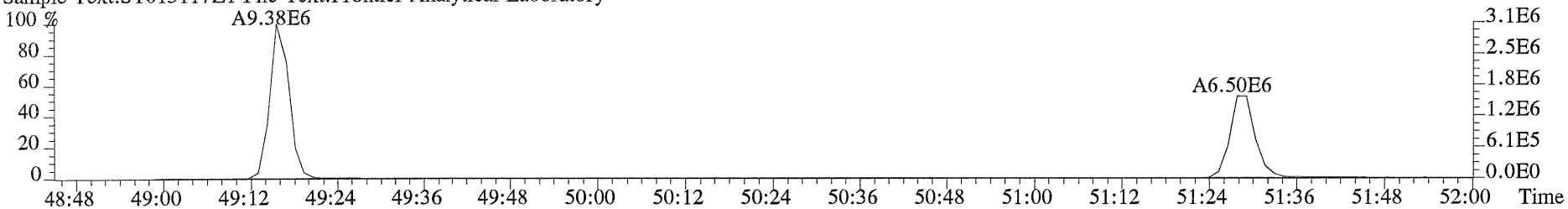
File:31JAN17Z #1-306 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



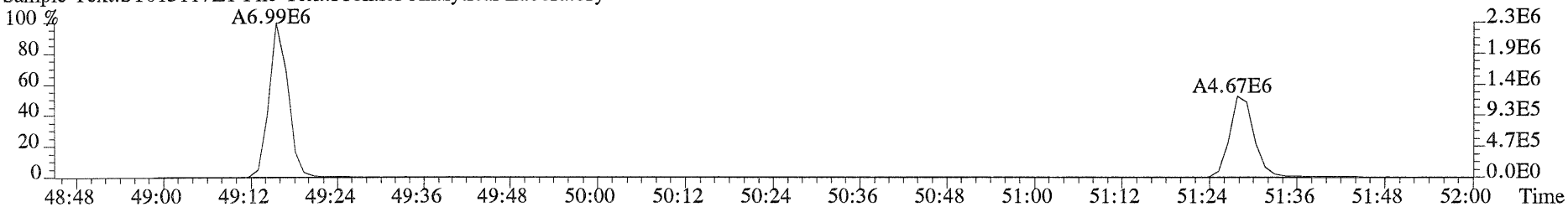
File:31JAN17Z #1-306 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



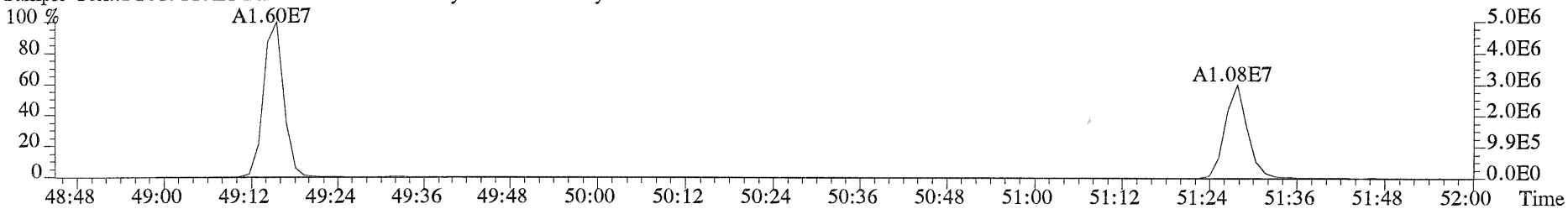
File:31JAN17Z #1-306 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



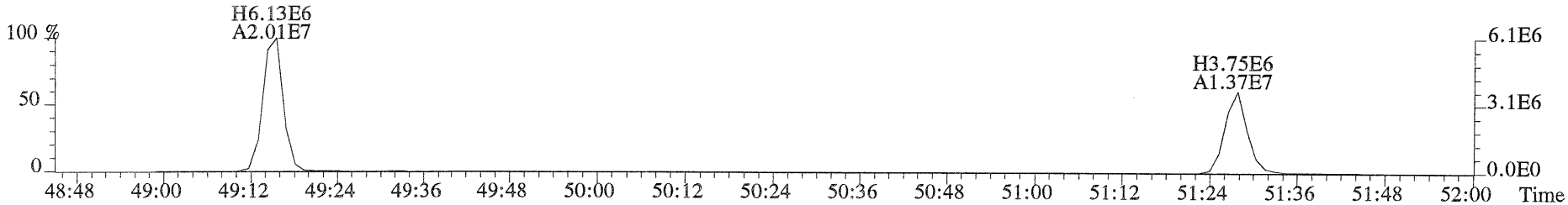
File:31JAN17Z #1-306 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



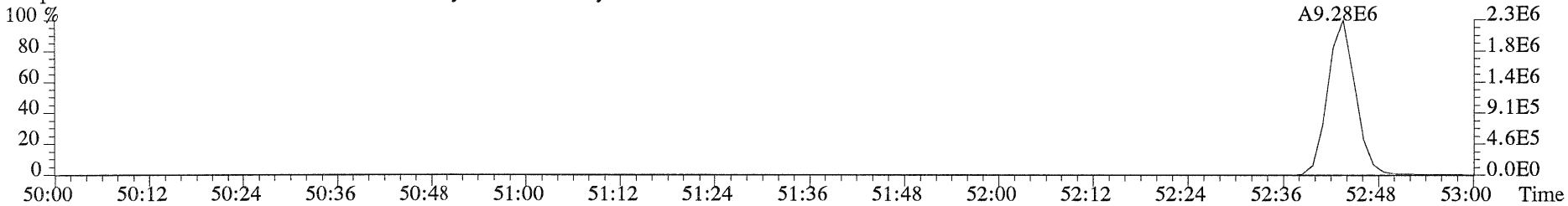
File:31JAN17Z #1-306 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 13:11:08 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:ST013117Z1 File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq:31-JAN-2017 13:11:08 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:ST013117Z1 File Text:Frontier Analytical Laboratory



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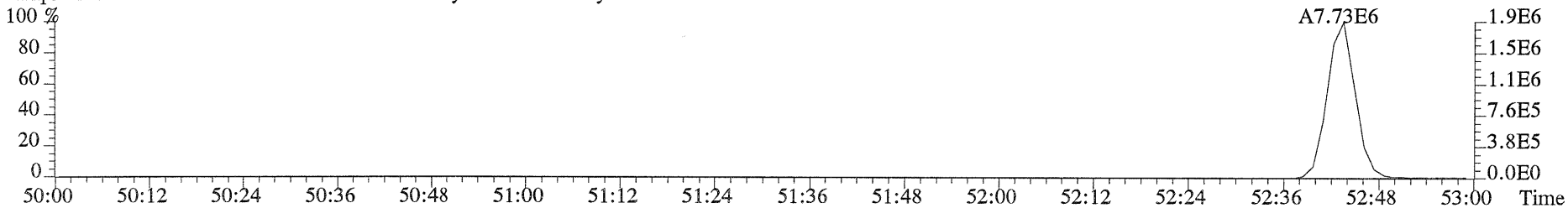
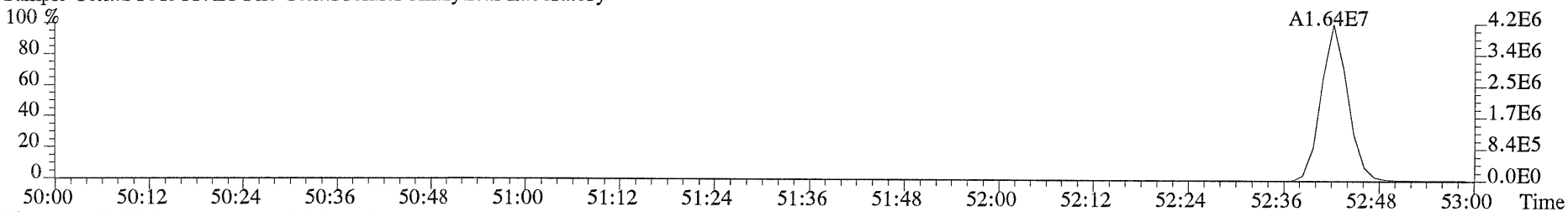
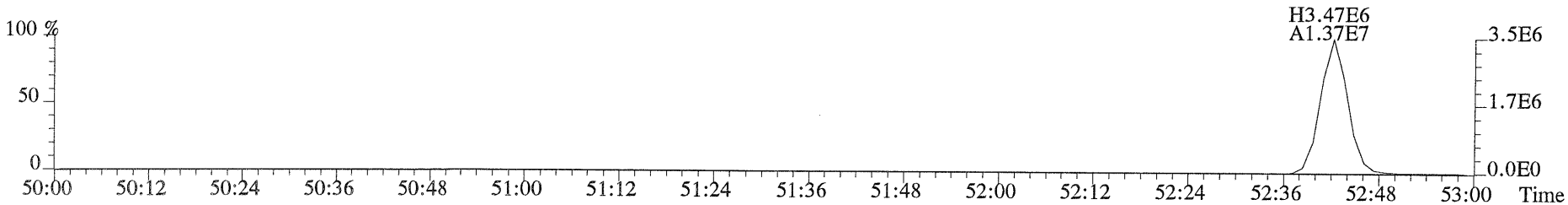
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory



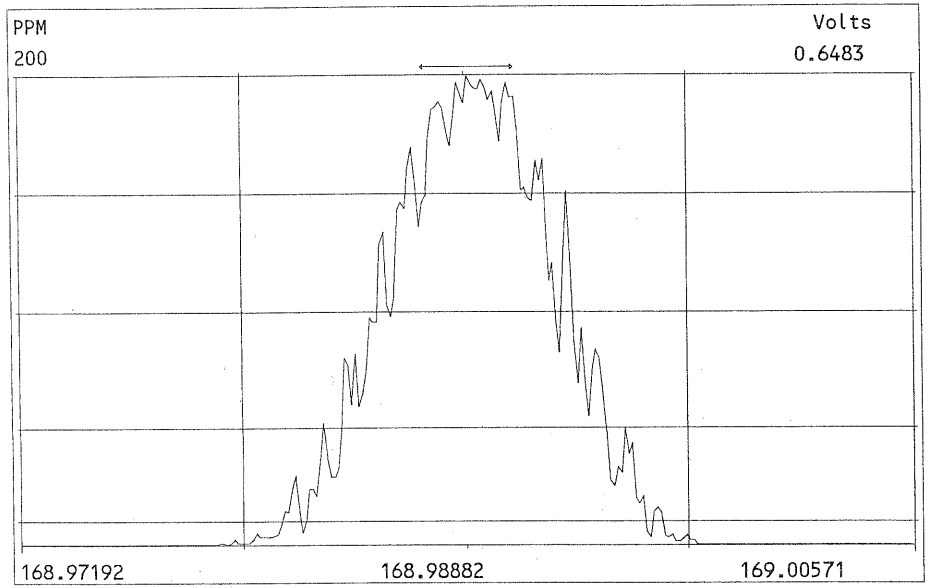
File:31JAN17Z #1-306 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory

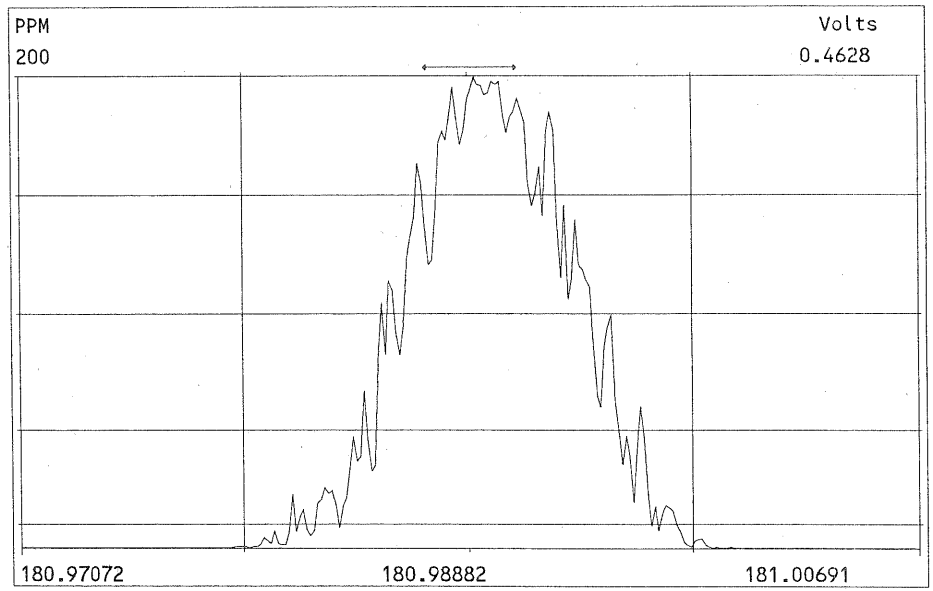


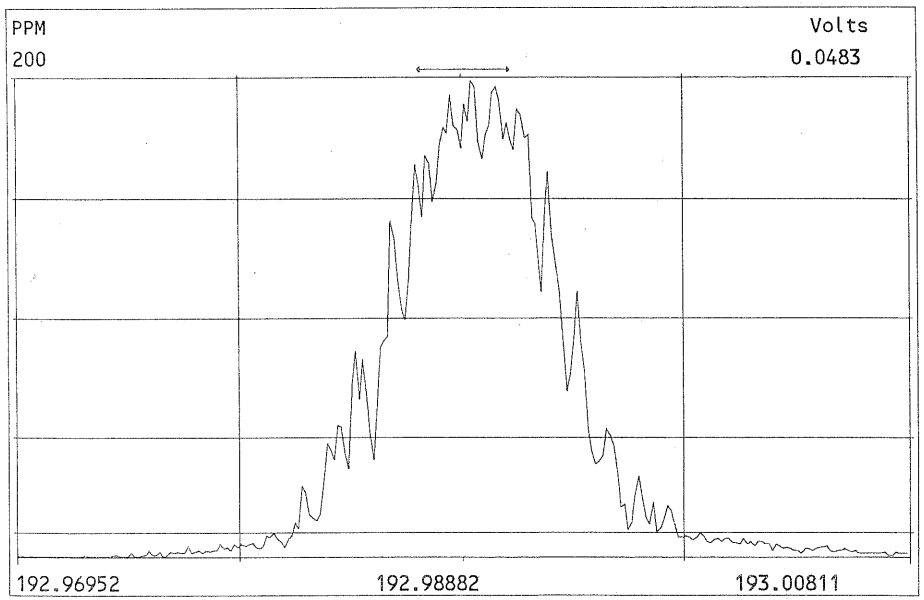
File:31JAN17Z #1-306 Acq:31-JAN-2017 13:11:08 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z1 File Text:Frontier Analytical Laboratory

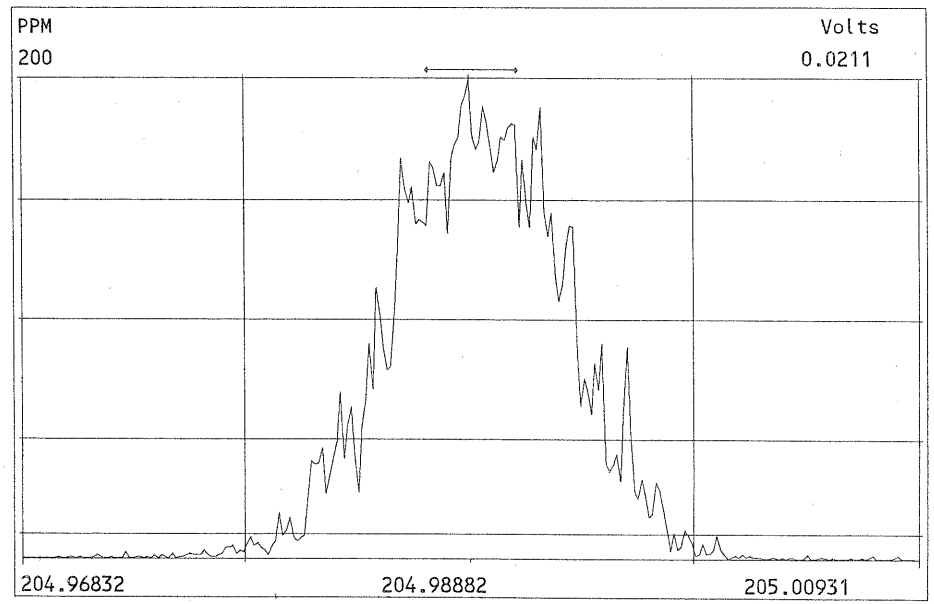


Peak Locate Examination: 1-FEB-2017:01:52 File:31JAN17Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

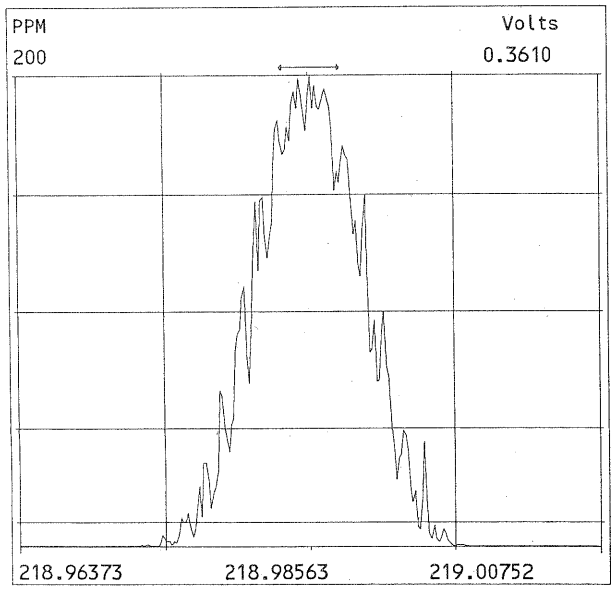


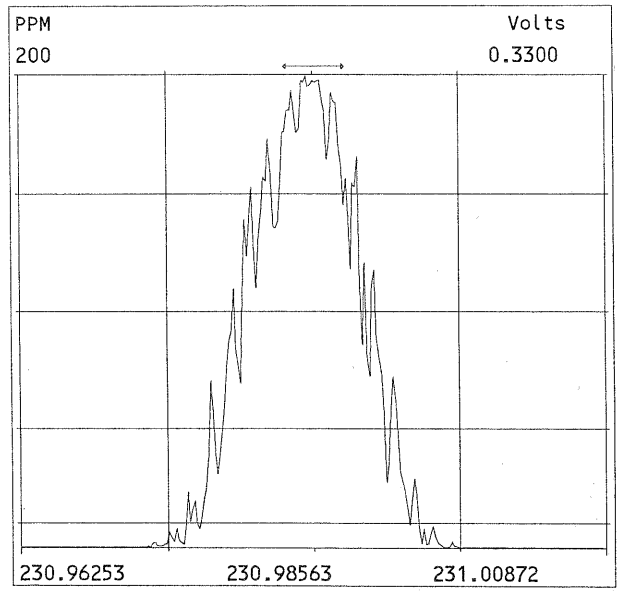


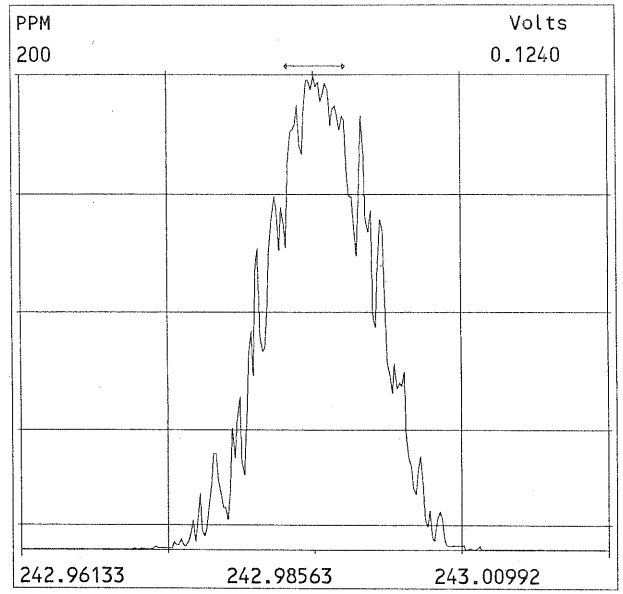


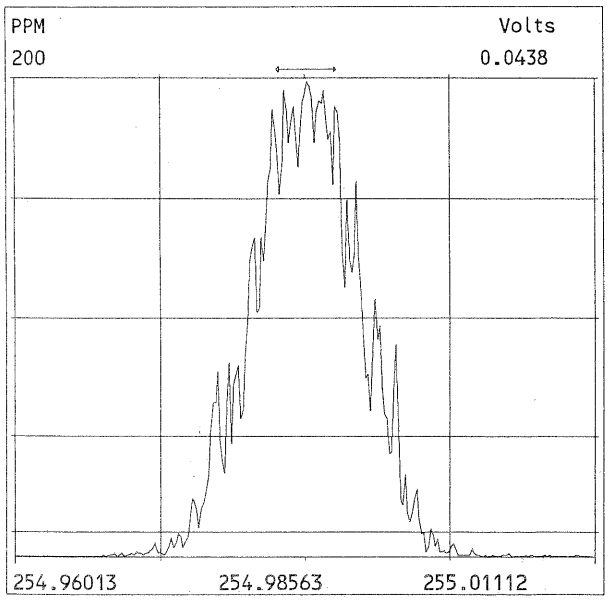


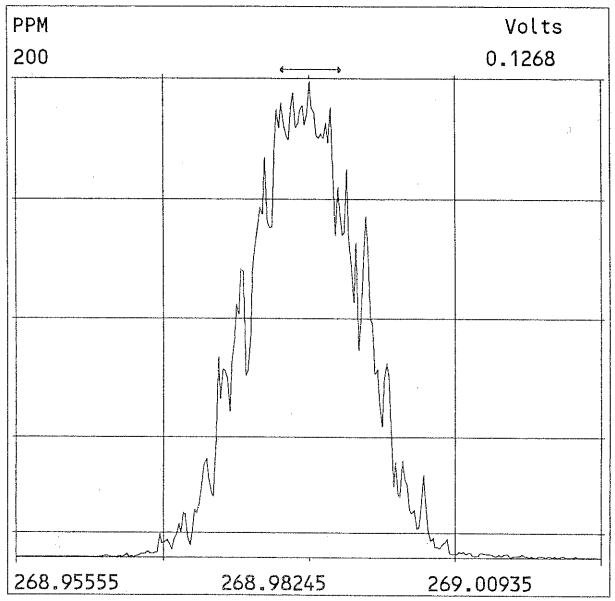
Peak Locate Examination: 1-FEB-2017:01:52 File:31JAN17Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

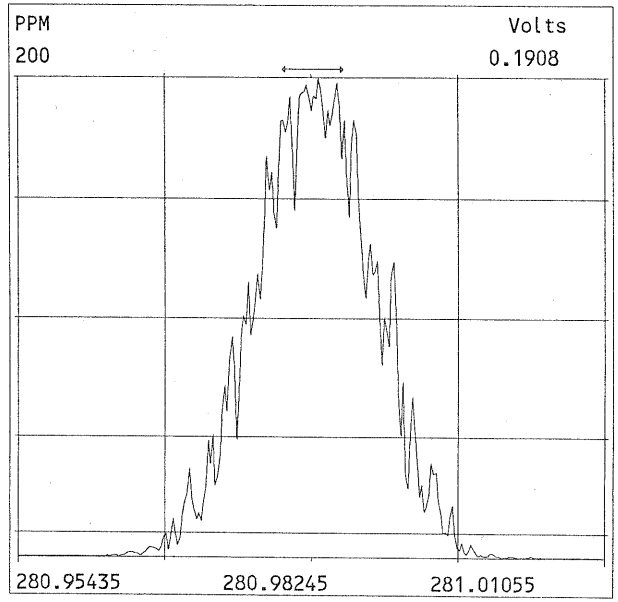




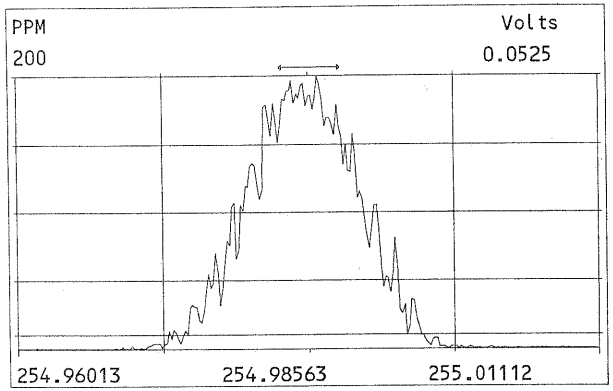


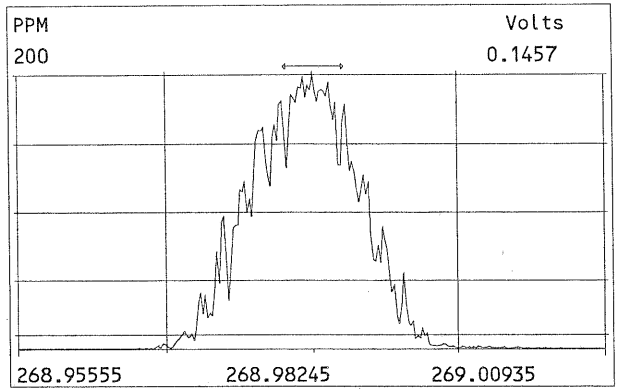


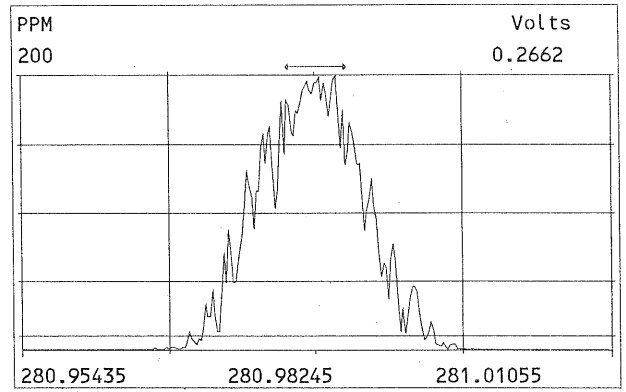


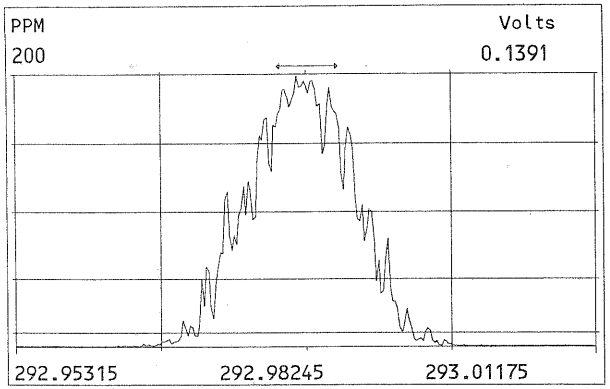


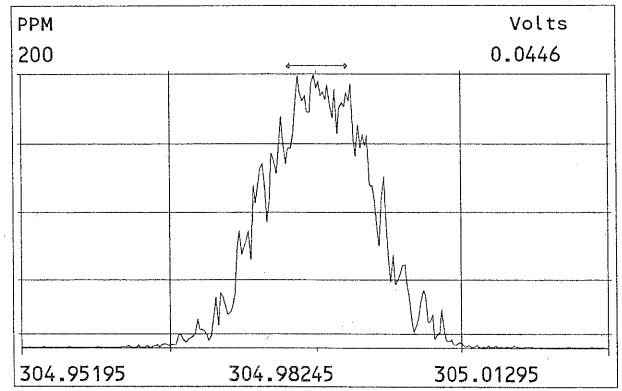
Peak Locate Examination: 1-FEB-2017:01:52 File:31JAN17Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

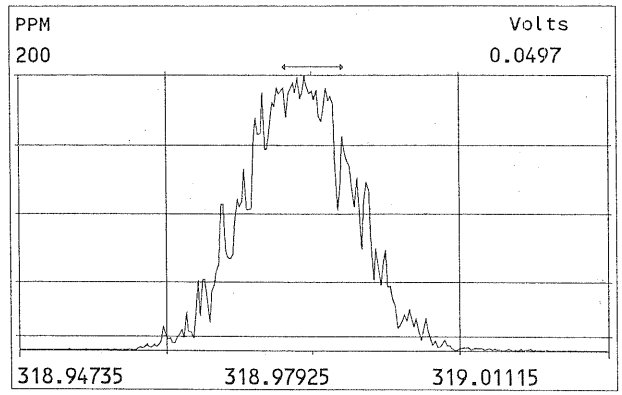


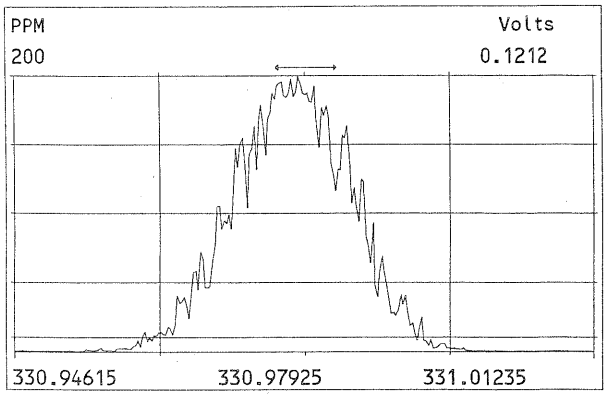


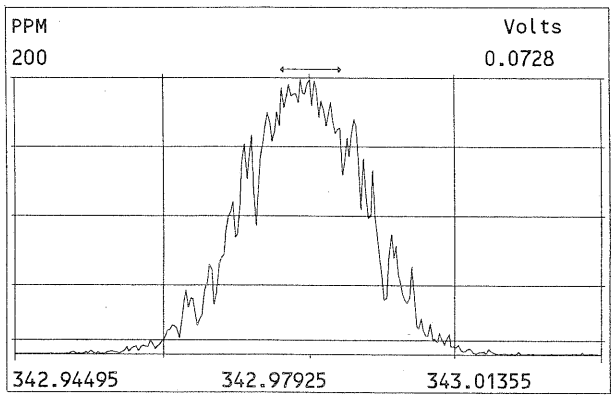




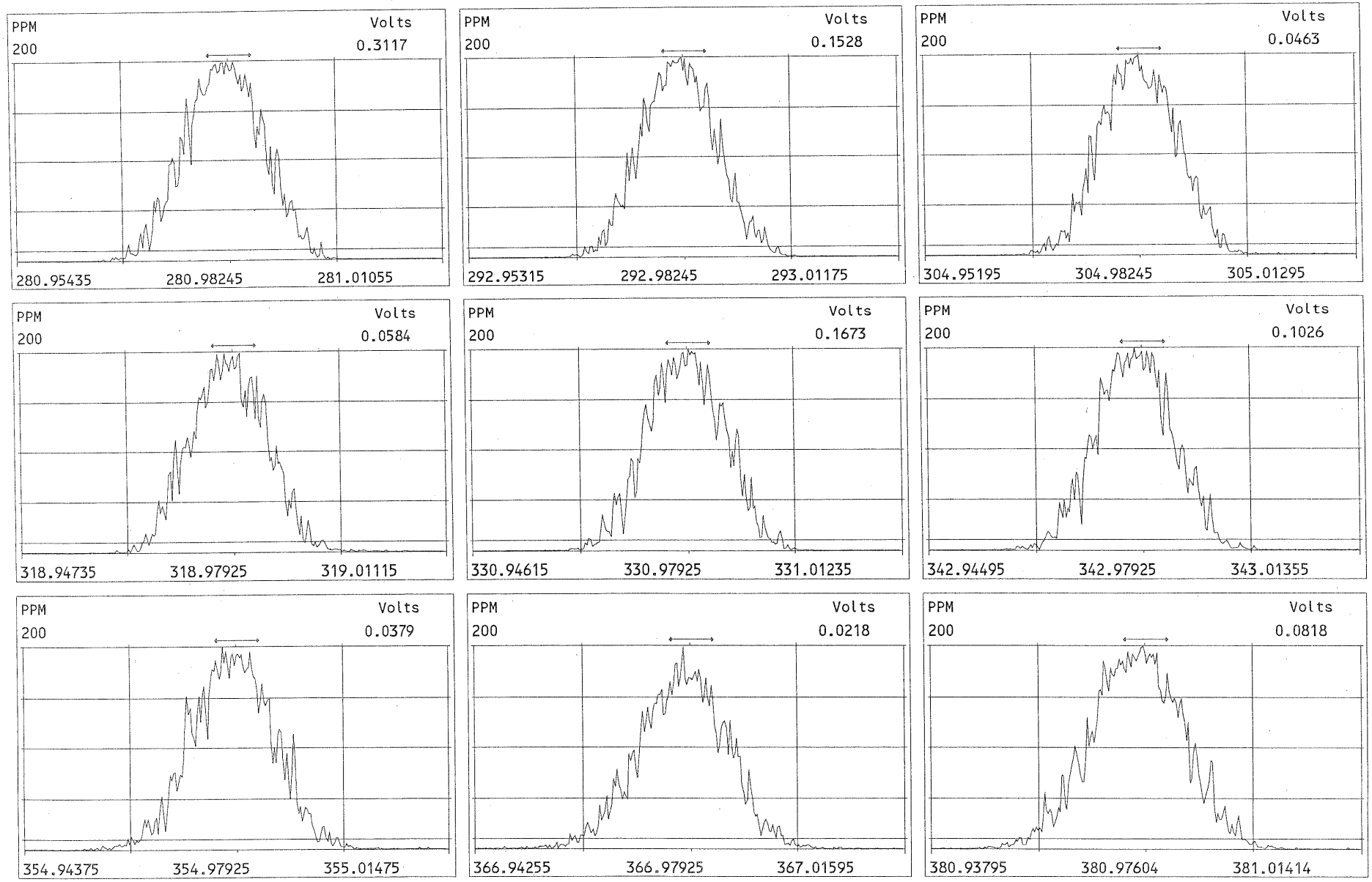




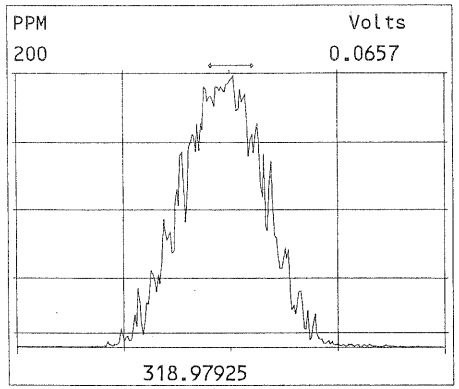


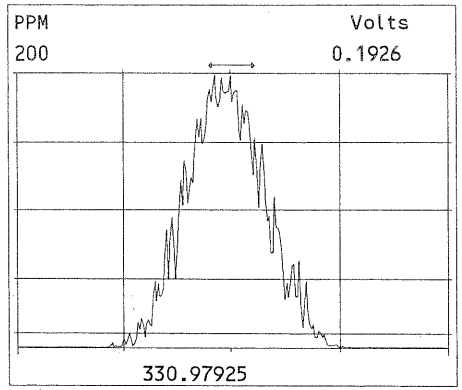


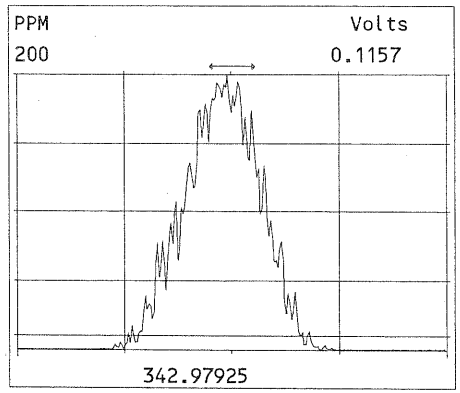
Peak Locate Examination: 1-FEB-2017:01:53 File:31JAN17Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

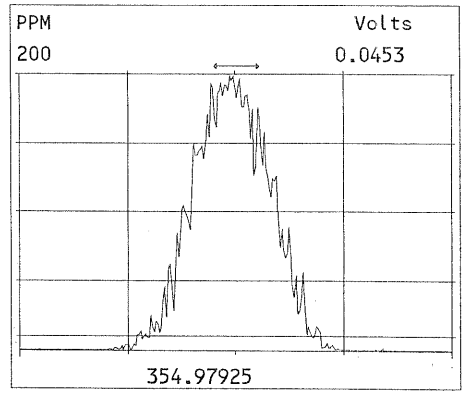


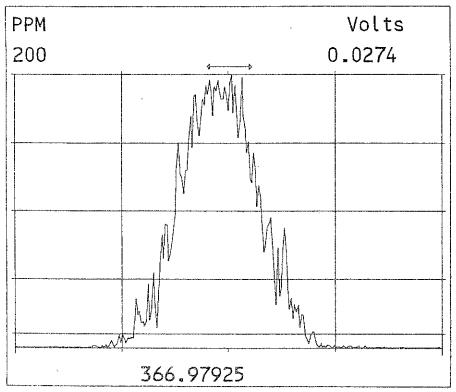
Peak Locate Examination: 1-FEB-2017:01:53 File:31JAN17Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

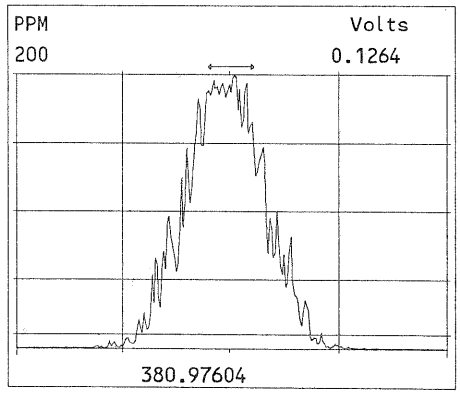


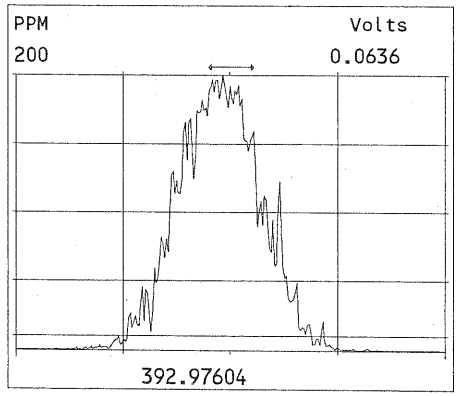


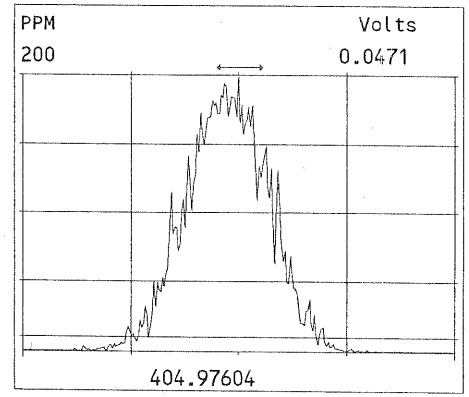


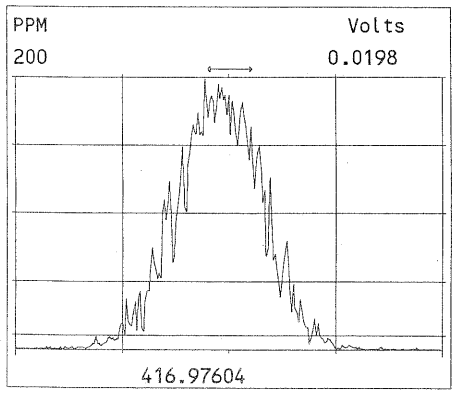


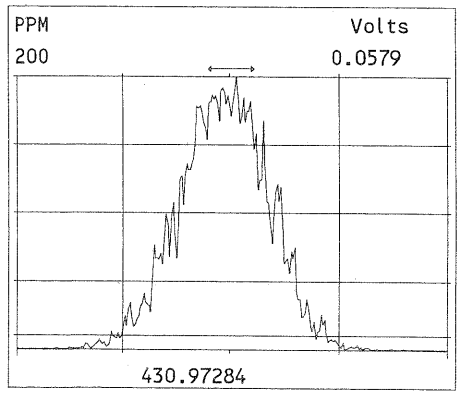


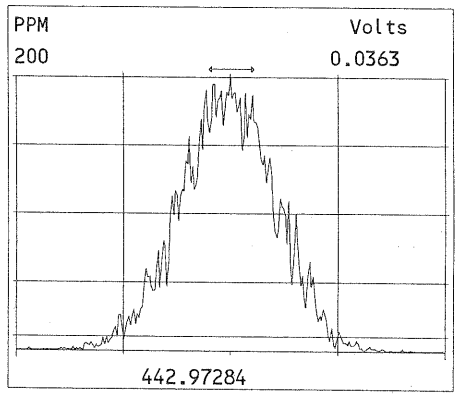




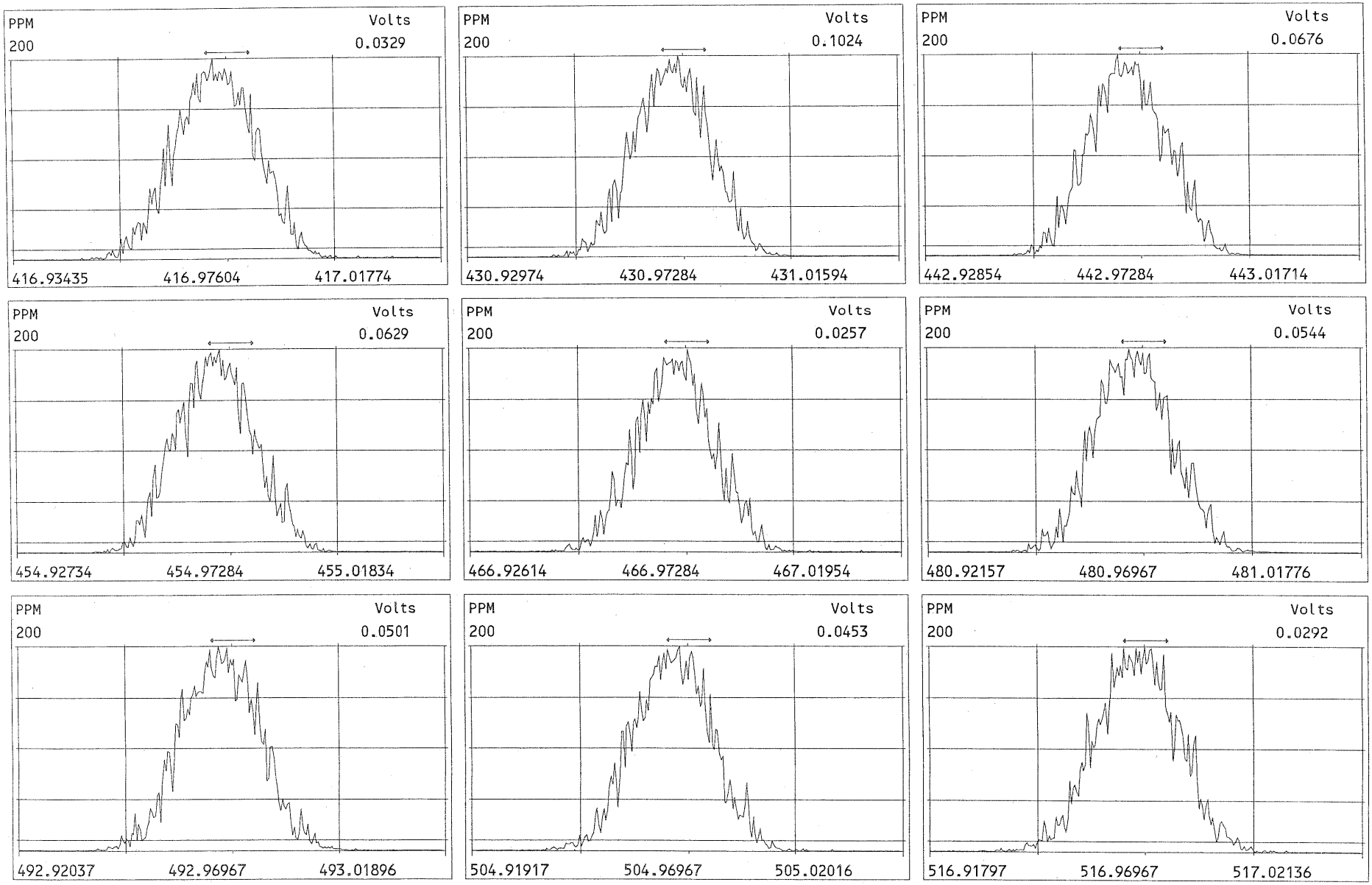








Peak Locate Examination: 1-FEB-2017:01:54 File:31JAN17Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK



Cal: DAILY209FAL4-1-31-17

Run: 31JAN17Z Analyte: DAILY209FAL4-1-31-17 Results: 10398 Version: V3.6 21-MAY-2002 15:28:22

Data Filename:31JAN17Z S2

Name	Mean RRF	S. D.	RRF#1
PCB-1	0.98	-	0.98
13C-PCB-1	1.01	-	1.01
PCB-2	0.89	-	0.89
PCB-3	1.03	-	1.03
13C-PCB-3	0.97	-	0.97
PCB-4	1.05	-	1.05
PCB-10	1.13	-	1.13
13C-PCB-4	0.63	-	0.63
PCB-9	1.19	-	1.19
PCB-7	1.27	-	1.27
PCB-6	1.23	-	1.23
PCB-8	1.11	-	1.11
PCB-5	1.29	-	1.29
PCB-14	1.15	-	1.15
PCB-11	1.08	-	1.08
PCB-13	1.08	-	1.08
PCB-12	1.13	-	1.13
PCB-15	1.07	-	1.07
13C-PCB-15	0.94	-	0.94
PCB-19	1.03	-	1.03
PCB-30	1.46	-	1.46
PCB-18	1.02	-	1.02
PCB-17	1.10	-	1.10
PCB-27	1.41	-	1.41
PCB-24	1.44	-	1.44
PCB-16	1.18	*	1.18
PCB-32	1.29	-	1.29
13C-PCB-19	0.57	-	0.57
13C-PCB-9	-	-	-
PCB-34	0.98	-	0.98
PCB-23	1.24	-	1.24
PCB-29	1.12	-	1.12
PCB-26	1.11	-	1.11
PCB-25	1.36	-	1.36
PCB-31	1.13	-	1.13
PCB-28	1.34	-	1.34
PCB-20/21/33	1.18	-	1.18
PCB-22	1.17	-	1.17
PCB-36	1.05	-	1.05
PCB-39	1.07	-	1.07
PCB-38	1.09	-	1.09
PCB-35	0.97	-	0.97
PCB-37	1.14	-	1.14
13C-PCB-37	1.14	-	1.14

PCB-54	0.99	-	0.99
PCB-50	0.74	-	0.74
PCB-53	0.74	-	0.74
PCB-51	0.75	-	0.75
PCB-45	0.65	-	0.65
PCB-46	0.62	-	0.62
PCB-52/69	0.95	-	0.95
PCB-73	0.85	-	0.85
PCB-43/49	0.72	-	0.72
PCB-47	0.91	-	0.91
PCB-48/75	0.90	-	0.90
PCB-65	0.95	-	0.95
PCB-62	0.84	-	0.84
PCB-44	0.64	-	0.64
PCB-42/59	0.87	-	0.87
PCB-41/64/71/72	0.94	-	0.94
PCB-68	0.99	-	0.99
PCB-40	0.56	-	0.56
PCB-57	0.94	-	0.94
PCB-67	0.86	-	0.86
PCB-58	0.99	-	0.99
PCB-63	0.95	-	0.95
PCB-74	0.97	-	0.97
PCB-61/70	1.03	-	1.03
PCB-66/76	0.99	-	0.99
PCB-80	1.07	-	1.07
PCB-55	0.97	-	0.97
13C-PCB-54	1.12	-	1.12
PCB-104	1.06	-	1.06
PCB-96	0.99	-	0.99
PCB-103	0.82	-	0.82
PCB-100	0.82	-	0.82
PCB-94	0.68	-	0.68
PCB-98/102	0.87	-	0.87
PCB-95	0.74	*	0.74
PCB-93	0.70	*	0.70
PCB-88/91	0.79	-	0.79
PCB-121	0.93	*	0.93
13C-PCB-104	0.82	-	0.82
13C-PCB-28	1.38	-	1.38
13C-PCB-52	-	-	-
PCB-56/60	1.06	-	1.06
PCB-79	1.08	-	1.08
PCB-78	1.03	-	1.03
PCB-81	1.07	-	1.07
13C-PCB-81	1.02	-	1.02
PCB-77	0.99	-	0.99
13C-PCB-77	1.01	-	1.01
PCB-155	1.01	-	1.01
PCB-150	0.91	-	0.91
PCB-152	0.90	-	0.90
PCB-145	0.89	-	0.89
PCB-136	0.93	-	0.93
PCB-148	0.64	-	0.64
PCB-154	0.78	-	0.78
13C-PCB-155	1.02	-	1.02
13C-PCB-111	1.11	-	1.11
13C-PCB-101	-	-	-

PCB-84/92	0.79	-	0.79
PCB-89	0.73	-	0.73
PCB-90/101	0.85	-	0.85
PCB-113	1.01	-	1.01
PCB-99	0.88	-	0.88
PCB-119	1.08	-	1.08
PCB-83/112	0.84	-	0.84
PCB-109	1.01	-	1.01
PCB-97	0.92	-	0.92
PCB-86	0.82	*	0.82
PCB-87/117/125	0.95	-	0.95
PCB-111/115	1.16	-	1.16
PCB-85/116	0.89	-	0.89
PCB-120	1.12	-	1.12
PCB-110	1.07	-	1.07
PCB-82	0.63	-	0.63
PCB-124	1.04	-	1.04
PCB-107/108	0.99	-	0.99
PCB-123	1.22	-	1.22
13C-PCB-123	1.07	-	1.07
PCB-118/106	0.96	-	0.96
13C-PCB-118	1.18	-	1.18
PCB-114	1.07	-	1.07
13C-PCB-114	1.11	-	1.11
PCB-122	0.96	-	0.96
PCB-105	1.02	-	1.02
13C-PCB-105	1.09	-	1.09
PCB-127	0.89	-	0.89
PCB-126	1.05	-	1.05
13C-PCB-126	0.90	-	0.90
PCB-151	0.81	-	0.81
PCB-135	0.80	-	0.80
PCB-144	0.85	-	0.85
PCB-147	0.95	-	0.95
PCB-139/149	0.91	-	0.91
PCB-140	0.91	-	0.91
PCB-134/143	0.83	-	0.83
PCB-131/133	0.85	-	0.85
PCB-142	0.73	-	0.73
PCB-146/165	1.00	-	1.00
PCB-132/161	0.97	-	0.97
PCB-153	0.90	-	0.90
PCB-168	1.10	-	1.10
PCB-141	0.84	-	0.84
PCB-137	0.91	-	0.91
PCB-130	0.64	-	0.64
PCB-138/163/164	1.10	-	1.10
PCB-158/160	1.09	-	1.09
PCB-129	0.69	-	0.69
PCB-166	1.07	-	1.07
PCB-159	1.06	-	1.06
PCB-128/162	0.92	-	0.92
PCB-167	0.93	-	0.93
13C-PCB-167	1.09	-	1.09
PCB-156	0.97	-	0.97
13C-PCB-156	1.01	-	1.01
PCB-157	0.97	-	0.97
13C-PCB-157	1.04	-	1.04
PCB-169	0.92	-	0.92
13C-PCB-169	0.87	-	0.87

PCB-188	1.07	-	1.07
13C-PCB-188	1.14	-	1.14
PCB-184	1.21	-	1.21
PCB-179	1.17	-	1.17
PCB-176	1.12	-	1.12
PCB-186	1.12	-	1.12
PCB-178	0.82	-	0.82
PCB-175	0.87	-	0.87
PCB-182/187	0.92	-	0.92
PCB-183	0.91	-	0.91
PCB-185	0.84	-	0.84
PCB-174	0.93	-	0.93
PCB-181	0.72	-	0.72
PCB-177	0.76	-	0.76
PCB-171	0.80	-	0.80
PCB-173	0.73	-	0.73
PCB-172	0.75	-	0.75
PCB-192	0.97	-	0.97
PCB-180	0.96	-	0.96
PCB-193	1.06	-	1.06
PCB-191	1.02	-	1.02
PCB-170	0.70	-	0.70
PCB-190	0.95	-	0.95
PCB-189	1.04	-	1.04
13C-PCB-189	0.85	-	0.85
PCB-202	0.90	-	0.90
PCB-201	0.93	-	0.93
PCB-204	0.85	-	0.85
PCB-197	0.92	-	0.92
PCB-200	0.88	-	0.88
PCB-198	0.56	-	0.56
PCB-199	0.68	-	0.68
PCB-196/203	0.67	-	0.67
13C-PCB-202	0.92	-	0.92
13C-PCB-178	0.80	-	0.80
13C-PCB-138	-	-	-
PCB-195	0.78	-	0.78
PCB-194	0.83	-	0.83
PCB-205	1.07	-	1.07
13C-PCB-205	1.19	-	1.19
PCB-208	0.91	-	0.91
13C-PCB-208	1.31	-	1.31
PCB-207	1.04	-	1.04
PCB-206	0.93	-	0.93
13C-PCB-206	0.94	-	0.94
PCB-209	0.99	-	0.99
13C-PCB-209	1.29	-	1.29
13C-PCB-194	-	-	-

Analyst: _____ Date: 2/3/17

Run #1 Filename 31JAN17Z S: 2 Acquired: 31-JAN-17 14:09:52 Cal: DAILY209FAL4-1-31-17
Client ID: Daily 209 161019A Analyte: FAL ID: SS013117Z1

FAL4

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	PCB-1	50.00	3.66e+07	3.08 y	14:32	-	0.978
2	IS/RT	13C-PCB-1	100.00	7.49e+07	3.25 y	14:31	-	1.01
3	Unk	PCB-2	50.00	3.27e+07	3.15 y	16:45	-	0.893
4	Unk	PCB-3	50.00	3.67e+07	3.15 y	16:58	-	1.03
5	IS/RT	13C-PCB-3	100.00	7.14e+07	3.23 y	16:57	-	0.966
6	Unk	PCB-4	50.00	2.44e+07	1.49 y	18:12	-	1.05
7	Unk	PCB-10	50.00	3.27e+07	1.59 y	18:15	-	1.13
8	IS/RT	13C-PCB-4	100.00	4.63e+07	1.55 y	18:11	-	0.626
9	Unk	PCB-9	50.00	3.44e+07	1.36 y	19:54	-	1.19
10	Unk	PCB-7	50.00	3.67e+07	1.52 y	19:55	-	1.27
11	Unk	PCB-6	50.00	3.57e+07	1.55 y	20:31	-	1.23
12	Unk	PCB-8	50.00	3.22e+07	1.42 y	20:54	-	1.11
13	Unk	PCB-5	50.00	3.72e+07	1.59 y	20:55	-	1.29
14	Unk	PCB-14	50.00	3.34e+07	1.64 y	21:57	-	1.15
15	Unk	PCB-11	50.00	3.14e+07	1.52 y	23:05	-	1.08
16	Unk	PCB-13	50.00	3.13e+07	1.49 y	23:27	-	1.08
17	Unk	PCB-12	50.00	3.28e+07	1.58 y	23:28	-	1.13
18	Unk	PCB-15	50.00	3.73e+07	1.62 y	23:45	-	1.07
19	IS/RT	13C-PCB-15	100.00	6.96e+07	1.59 y	23:44	-	0.943
20	Unk	PCB-19	50.00	2.17e+07	1.05 y	22:05	-	1.03
21	Unk	PCB-30	50.00	3.09e+07	1.04 y	22:56	-	1.46
22	Unk	PCB-18	50.00	2.15e+07	1.05 y	23:39	-	1.02
23	Unk	PCB-17	50.00	2.34e+07	1.04 y	23:49	-	1.10
24	Unk	PCB-27	50.00	2.98e+07	1.03 y	24:21	-	1.41
25	Unk	PCB-24	50.00	3.05e+07	1.08 y	24:22	-	1.44
26	Unk	PCB-16	50.00	2.51e+07	1.03 y	24:49	-	1.18
27	Unk	PCB-32	50.00	2.72e+07	1.07 y	24:51	-	1.29
28	IS/RT	13C-PCB-19	100.00	4.23e+07	1.07 y	22:04	-	0.573
29	RS	13C-PCB-9	100.00	7.39e+07	1.59 y	19:52	7.39e+05	-
30	Unk	PCB-34	50.00	2.77e+07	1.03 y	25:36	-	0.979
31	Unk	PCB-23	50.00	3.52e+07	1.07 y	25:42	-	1.24
32	Unk	PCB-29	50.00	3.18e+07	1.05 y	25:56	-	1.12
33	Unk	PCB-26	50.00	3.14e+07	1.07 y	26:07	-	1.11
34	Unk	PCB-25	50.00	3.86e+07	1.06 y	26:17	-	1.36
35	Unk	PCB-31	50.00	3.20e+07	1.04 y	26:38	-	1.13
36	Unk	PCB-28	50.00	3.80e+07	1.06 y	26:43	-	1.34
37	Unk	PCB-20/21/33	150.00	1.01e+08	1.06 y	27:18	-	1.18
38	Unk	PCB-22	50.00	3.30e+07	1.07 y	27:43	-	1.17
39	Unk	PCB-36	50.00	2.96e+07	1.07 y	28:19	-	1.05
40	Unk	PCB-39	50.00	3.03e+07	1.06 y	28:46	-	1.07
41	Unk	PCB-38	50.00	3.09e+07	1.07 y	29:29	-	1.09
42	Unk	PCB-35	50.00	2.74e+07	1.08 y	29:60	-	0.968
43	Unk	PCB-37	50.00	3.23e+07	1.11 y	30:25	-	1.14
44	IS	13C-PCB-37	100.00	5.66e+07	1.08 y	30:24	-	1.14

45	Unk	PCB-54	100.00	5.55e+07	0.77 y	25:38	-	0.992
46	Unk	PCB-50	100.00	4.11e+07	0.77 y	26:44	-	0.735
47	Unk	PCB-53	100.00	4.12e+07	0.77 y	27:21	-	0.737
48	Unk	PCB-51	100.00	4.20e+07	0.77 y	27:41	-	0.752
49	Unk	PCB-45	100.00	3.64e+07	0.77 y	28:05	-	0.652
50	Unk	PCB-46	100.00	3.45e+07	0.77 y	28:33	-	0.617
51	Unk	PCB-52/69	200.00	1.07e+08	0.77 y	29:00	-	0.953
52	Unk	PCB-73	100.00	4.74e+07	0.78 y	29:05	-	0.848
53	Unk	PCB-43/49	200.00	8.02e+07	0.79 y	29:16	-	0.717
54	Unk	PCB-47	100.00	5.11e+07	0.76 y	29:28	-	0.914
55	Unk	PCB-48/75	200.00	1.01e+08	0.78 y	29:35	-	0.904
56	Unk	PCB-65	100.00	5.29e+07	0.77 y	29:50	-	0.947
57	Unk	PCB-62	100.00	4.72e+07	0.78 y	29:56	-	0.844
58	Unk	PCB-44	100.00	3.59e+07	0.78 y	30:12	-	0.642
59	Unk	PCB-42/59	200.00	9.71e+07	0.78 y	30:26	-	0.869
60	Unk	PCB-41/64/71/72	400.00	2.10e+08	0.77 y	30:59	-	0.937
61	Unk	PCB-68	100.00	5.56e+07	0.77 y	31:14	-	0.995
62	Unk	PCB-40	100.00	3.11e+07	0.78 y	31:26	-	0.556
63	Unk	PCB-57	100.00	5.25e+07	0.77 y	31:47	-	0.939
64	Unk	PCB-67	100.00	4.82e+07	0.76 y	32:05	-	0.861
65	Unk	PCB-58	100.00	5.52e+07	0.82 y	32:11	-	0.987
66	Unk	PCB-63	100.00	5.31e+07	0.74 y	32:20	-	0.950
67	Unk	PCB-74	100.00	5.45e+07	0.78 y	32:37	-	0.974
68	Unk	PCB-61/70	200.00	1.15e+08	0.77 y	32:48	-	1.03
69	Unk	PCB-66/76	200.00	1.10e+08	0.77 y	32:59	-	0.987
70	Unk	PCB-80	100.00	5.98e+07	0.79 y	33:13	-	1.07
71	Unk	PCB-55	100.00	5.39e+07	0.77 y	33:31	-	0.965
72	IS/RT	13C-PCB-54	100.00	5.59e+07	0.79 y	25:37	-	1.12
73	Unk	PCB-104	100.00	4.33e+07	1.59 y	30:05	-	1.06
74	Unk	PCB-96	100.00	4.04e+07	1.59 y	31:16	-	0.988
75	Unk	PCB-103	100.00	3.36e+07	1.60 y	31:47	-	0.823
76	Unk	PCB-100	100.00	3.35e+07	1.59 y	32:07	-	0.819
77	Unk	PCB-94	100.00	2.80e+07	1.61 y	32:34	-	0.684
78	Unk	PCB-98/102	200.00	7.09e+07	1.58 y	33:01	-	0.868
79	Unk	PCB-95	100.00	3.01e+07	1.59 y	33:04	-	0.738
80	Unk	PCB-93	100.00	2.85e+07	1.64 y	33:07	-	0.697
81	Unk	PCB-88/91	200.00	6.47e+07	1.53 y	33:26	-	0.792
82	Unk	PCB-121	100.00	3.79e+07	1.78 y	33:32	-	0.929
83	IS	13C-PCB-104	100.00	4.08e+07	1.56 y	30:04	-	0.822
84	C/Up	13C-PCB-28	100.00	6.84e+07	1.06 y	26:41	-	1.38
85	RS	13C-PCB-52	100.00	4.97e+07	0.78 y	28:58	4.97e+05	-
86	Unk	PCB-56/60	200.00	9.71e+07	0.76 y	33:60	-	1.06
87	Unk	PCB-79	100.00	4.96e+07	0.78 y	35:02	-	1.08
88	Unk	PCB-78	100.00	4.69e+07	0.78 y	35:41	-	1.03
89	Unk	PCB-81	100.00	4.89e+07	0.77 y	36:11	-	1.07
90	IS	13C-PCB-81	100.00	4.60e+07	0.80 y	36:10	-	1.02
91	Unk	PCB-77	100.00	4.50e+07	0.78 y	36:45	-	0.989
92	IS/RT	13C-PCB-77	100.00	4.55e+07	0.79 y	36:44	-	1.01
93	Unk	PCB-155	100.00	4.64e+07	1.29 y	34:15	-	1.01
94	Unk	PCB-150	100.00	4.19e+07	1.28 y	35:26	-	0.910
95	Unk	PCB-152	100.00	4.14e+07	1.28 y	35:54	-	0.899
96	Unk	PCB-145	100.00	4.09e+07	1.28 y	36:19	-	0.887
97	Unk	PCB-136	100.00	4.27e+07	1.27 y	36:38	-	0.927
98	Unk	PCB-148	100.00	2.96e+07	1.30 y	36:43	-	0.642
99	Unk	PCB-154	100.00	3.59e+07	1.29 y	37:11	-	0.780
100	IS	13C-PCB-155	100.00	4.61e+07	1.28 y	34:12	-	1.02
101	C/Up	13C-PCB-111	100.00	5.02e+07	1.60 y	36:19	-	1.11
102	RS	13C-PCB-101	100.00	4.52e+07	1.60 y	34:40	4.52e+05	-

103	Unk	PCB-84/92	200.00	7.24e+07	1.57	y	34:20	-	0.794
104	Unk	PCB-89	100.00	3.32e+07	1.57	y	34:30	-	0.727
105	Unk	PCB-90/101	200.00	7.74e+07	1.55	y	34:40	-	0.848
106	Unk	PCB-113	100.00	4.60e+07	1.57	y	34:54	-	1.01
107	Unk	PCB-99	100.00	4.03e+07	1.51	y	35:00	-	0.883
108	Unk	PCB-119	100.00	4.94e+07	1.67	y	35:26	-	1.08
109	Unk	PCB-83/112	200.00	7.68e+07	1.48	y	35:35	-	0.841
110	Unk	PCB-109	100.00	4.63e+07	1.57	y	35:45	-	1.01
111	Unk	PCB-97	100.00	4.21e+07	1.55	y	35:55	-	0.924
112	Unk	PCB-86	100.00	3.73e+07	1.58	y	36:06	-	0.817
113	Unk	PCB-87/117/125	300.00	1.30e+08	1.53	y	36:11	-	0.951
114	Unk	PCB-111/115	200.00	1.06e+08	1.55	y	36:20	-	1.16
115	Unk	PCB-85/116	200.00	8.11e+07	1.58	y	36:28	-	0.889
116	Unk	PCB-120	100.00	5.10e+07	1.54	y	36:42	-	1.12
117	Unk	PCB-110	100.00	4.88e+07	1.57	y	36:49	-	1.07
118	Unk	PCB-82	100.00	2.86e+07	1.55	y	37:25	-	0.627
119	Unk	PCB-124	100.00	4.76e+07	1.50	y	38:05	-	1.04
120	Unk	PCB-107/108	200.00	9.05e+07	1.56	y	38:13	-	0.992
121	Unk	PCB-123	100.00	5.34e+07	1.56	y	38:23	-	1.22
122	IS	13C-PCB-123	100.00	4.38e+07	1.60	y	38:21	-	1.07
123	Unk	PCB-118/106	200.00	9.32e+07	1.57	y	38:35	-	0.959
124	IS	13C-PCB-118	100.00	4.86e+07	1.61	y	38:31	-	1.18
125	Unk	PCB-114	100.00	4.87e+07	1.54	y	39:11	-	1.07
126	IS	13C-PCB-114	100.00	4.56e+07	1.60	y	39:09	-	1.11
127	Unk	PCB-122	100.00	4.37e+07	1.57	y	39:17	-	0.959
128	Unk	PCB-105	100.00	4.53e+07	1.58	y	40:00	-	1.02
129	IS	13C-PCB-105	100.00	4.46e+07	1.58	y	39:58	-	1.09
130	Unk	PCB-127	100.00	4.06e+07	1.60	y	40:20	-	0.889
131	Unk	PCB-126	100.00	3.87e+07	1.55	y	42:08	-	1.05
132	IS	13C-PCB-126	100.00	3.69e+07	1.57	y	42:07	-	0.899
133	Unk	PCB-151	100.00	3.35e+07	1.28	y	37:48	-	0.814
134	Unk	PCB-135	100.00	3.31e+07	1.26	y	37:60	-	0.805
135	Unk	PCB-144	100.00	3.51e+07	1.28	y	38:07	-	0.853
136	Unk	PCB-147	100.00	3.89e+07	1.26	y	38:15	-	0.945
137	Unk	PCB-139/149	200.00	7.53e+07	1.26	y	38:30	-	0.915
138	Unk	PCB-140	100.00	3.74e+07	1.25	y	38:39	-	0.909
139	Unk	PCB-134/143	200.00	6.86e+07	1.26	y	39:04	-	0.834
140	Unk	PCB-131/133	200.00	7.01e+07	1.29	y	39:21	-	0.852
141	Unk	PCB-142	100.00	3.00e+07	1.15	y	39:30	-	0.730
142	Unk	PCB-146/165	200.00	8.25e+07	1.25	y	39:44	-	1.00
143	Unk	PCB-132/161	200.00	7.98e+07	1.25	y	39:57	-	0.970
144	Unk	PCB-153	100.00	3.69e+07	1.25	y	40:07	-	0.898
145	Unk	PCB-168	100.00	4.51e+07	1.24	y	40:18	-	1.10
146	Unk	PCB-141	100.00	3.46e+07	1.25	y	40:49	-	0.842
147	Unk	PCB-137	100.00	3.73e+07	1.23	y	41:11	-	0.906
148	Unk	PCB-130	100.00	2.65e+07	1.27	y	41:16	-	0.644
149	Unk	PCB-138/163/164	300.00	1.35e+08	1.26	y	41:39	-	1.10
150	Unk	PCB-158/160	200.00	8.97e+07	1.25	y	41:52	-	1.09
151	Unk	PCB-129	100.00	2.86e+07	1.24	y	42:05	-	0.695
152	Unk	PCB-166	100.00	4.40e+07	1.25	y	42:33	-	1.07
153	Unk	PCB-159	100.00	4.38e+07	1.24	y	42:50	-	1.06
154	Unk	PCB-128/162	200.00	7.57e+07	1.25	y	43:06	-	0.920
155	Unk	PCB-167	100.00	4.16e+07	1.24	y	43:29	-	0.931
156	IS	13C-PCB-167	100.00	4.47e+07	1.24	y	43:28	-	1.09
157	Unk	PCB-156	100.00	4.01e+07	1.26	y	44:43	-	0.970
158	IS	13C-PCB-156	100.00	4.13e+07	1.27	y	44:42	-	1.01
159	Unk	PCB-157	100.00	4.16e+07	1.26	y	44:58	-	0.971
160	IS	13C-PCB-157	100.00	4.28e+07	1.26	y	44:58	-	1.04
161	Unk	PCB-169	100.00	3.28e+07	1.24	y	46:52	-	0.918
162	IS	13C-PCB-169	100.00	3.57e+07	1.22	y	46:50	-	0.871

163	Unk	PCB-188	100.00	5.01e+07	1.06 y	39:45	-	1.07	
164	IS	13C-PCB-188	100.00	4.68e+07	1.07 y	39:44	-	1.14	
165	Unk	PCB-184	100.00	4.92e+07	1.05 y	40:10	-	1.21	
166	Unk	PCB-179	100.00	4.75e+07	1.06 y	40:54	-	1.17	
167	Unk	PCB-176	100.00	4.56e+07	1.07 y	41:21	-	1.12	
168	Unk	PCB-186	100.00	4.59e+07	1.05 y	41:55	-	1.12	
169	Unk	PCB-178	100.00	3.33e+07	1.06 y	42:23	-	0.817	
170	Unk	PCB-175	100.00	3.53e+07	1.04 y	42:43	-	0.867	
171	Unk	PCB-182/187	200.00	7.48e+07	1.05 y	42:53	-	0.917	
172	Unk	PCB-183	100.00	3.72e+07	1.06 y	43:11	-	0.913	
173	Unk	PCB-185	100.00	3.43e+07	1.06 y	43:49	-	0.841	
174	Unk	PCB-174	100.00	3.79e+07	1.05 y	44:10	-	0.929	
175	Unk	PCB-181	100.00	2.94e+07	1.06 y	44:17	-	0.721	
176	Unk	PCB-177	100.00	3.11e+07	1.06 y	44:25	-	0.763	
177	Unk	PCB-171	100.00	3.28e+07	1.06 y	44:42	-	0.805	
178	Unk	PCB-173	100.00	2.99e+07	1.06 y	45:06	-	0.732	
179	Unk	PCB-172	100.00	3.07e+07	1.06 y	45:31	-	0.754	
180	Unk	PCB-192	100.00	3.96e+07	1.06 y	45:41	-	0.971	
181	Unk	PCB-180	100.00	3.93e+07	1.05 y	45:51	-	0.963	
182	Unk	PCB-193	100.00	4.32e+07	1.07 y	46:02	-	1.06	
183	Unk	PCB-191	100.00	4.14e+07	1.04 y	46:14	-	1.02	
184	Unk	PCB-170	100.00	2.83e+07	1.08 y	47:10	-	0.695	
185	Unk	PCB-190	100.00	3.87e+07	1.03 y	47:20	-	0.949	
186	Unk	PCB-189	100.00	3.62e+07	1.06 y	48:32	-	1.04	
187	IS	13C-PCB-189	100.00	3.47e+07	1.06 y	48:30	-	0.846	
188	Unk	PCB-202	150.00	5.08e+07	0.90 y	44:53	-	0.900	
189	Unk	PCB-201	150.00	5.27e+07	0.89 y	45:19	-	0.934	
190	Unk	PCB-204	150.00	4.78e+07	0.90 y	45:28	-	0.848	
191	Unk	PCB-197	150.00	5.17e+07	0.90 y	45:44	-	0.917	
192	Unk	PCB-200	150.00	4.98e+07	0.90 y	46:29	-	0.883	
193	Unk	PCB-198	150.00	3.15e+07	0.88 y	47:41	-	0.558	
194	Unk	PCB-199	150.00	3.85e+07	0.90 y	47:46	-	0.682	
195	Unk	PCB-196/203	300.00	7.61e+07	0.89 y	48:01	-	0.675	
196	IS	13C-PCB-202	100.00	3.76e+07	0.92 y	44:51	-	0.916	
197	C/Up	13C-PCB-178	100.00	3.27e+07	1.08 y	42:22	-	0.797	
198	RS	13C-PCB-138	100.00	4.10e+07	1.25 y	41:36	4.10e+05	-	
199	Unk	PCB-195	150.00	4.43e+07	0.88 y	49:09	-	0.784	
200	Unk	PCB-194	150.00	4.71e+07	0.89 y	49:58	-	0.834	
201	Unk	PCB-205	150.00	6.07e+07	0.89 y	50:13	-	1.07	
202	IS	13C-PCB-205	100.00	3.76e+07	0.93 y	50:13	-	1.19	
203	Unk	PCB-208	150.00	5.61e+07	1.35 y	49:15	-	0.908	
204	IS	13C-PCB-208	100.00	4.12e+07	0.80 y	49:14	-	1.31	
205	Unk	PCB-207	150.00	5.53e+07	1.35 y	49:33	-	1.04	
206	Unk	PCB-206	150.00	4.13e+07	1.34 y	51:29	-	0.931	
207	IS	13C-PCB-206	100.00	2.96e+07	0.80 y	51:28	-	0.938	
208	Unk	PCB-209	150.00	6.05e+07	1.18 y	52:43	-	0.993	
209	IS	13C-PCB-209	100.00	4.06e+07	1.20 y	52:42	-	1.29	
210	RS	13C-PCB-194	100.00	3.15e+07	0.92 y	49:58	3.15e+05	-	

Analyst: [illegible] Date: 2/3/17

FORM 6C-HR

INDIVIDUAL CONGENER INITIAL CALIBRATION DATA SUMMARY

Page 1

Lab Name: Frontier Analytical Lab Contract:

Lab Code: FTR Case No.: MA No.: SDG NO.:

Inst. ID: FAL4 GC Column: DB1MS ID: 0.25 (mm) EPA Sample No.:Daily 209 161019A

Init. Calib. Date(s): 31-JAN-17

Init. Calib. Times: 14:09:52

CL No.	Analyte Name	RRF	IAR	IAR QC Limits	RRT	RRT QC Limits
1	PCB-1	0.98	3.08	2.66-3.60	1.0012	0.9970-1.0030
1	PCB-2	0.89	3.15	2.66-3.60	0.9880	0.9800-1.0030
1	PCB-3	1.03	3.15	2.66-3.60	1.0010	0.9970-1.0030
2	PCB-4	1.05	1.49	1.33-1.79	1.0013	0.9970-1.0030
2	PCB-5	1.29	1.59	1.33-1.79	1.1507	1.0900-1.2300
2	PCB-6	1.23	1.55	1.33-1.79	1.1287	1.0900-1.2300
2	PCB-7	1.27	1.52	1.33-1.79	1.0957	1.0800-1.1100
2	PCB-8	1.11	1.42	1.33-1.79	1.1498	1.0900-1.2300
2	PCB-9	1.19	1.36	1.33-1.79	1.0948	1.0800-1.1100
2	PCB-10	1.13	1.59	1.33-1.79	1.0040	1.0030-1.0080
2	PCB-11	1.08	1.52	1.33-1.79	1.2699	1.2000-1.3000
2	PCB-12	1.13	1.58	1.33-1.79	1.2910	1.2300-1.3300
2	PCB-13	1.08	1.49	1.33-1.79	1.2901	1.2300-1.3300
2	PCB-14	1.15	1.64	1.33-1.79	1.2076	1.1000-1.3000
2	PCB-15	1.07	1.62	1.33-1.79	1.0006	0.9970-1.0030
3	PCB-16	1.18	1.03	0.88-1.20	1.1250	1.0800-1.2300
3	PCB-17	1.10	1.04	0.88-1.20	1.0797	1.0000-1.1100
3	PCB-18	1.02	1.05	0.88-1.20	1.0721	1.0000-1.1100
3	PCB-19	1.03	1.05	0.88-1.20	1.0011	0.9970-1.0030
3	PCB-20/21/33	1.18	1.06	0.88-1.20	0.8981	0.8300-0.9600
3	PCB-22	1.17	1.07	0.88-1.20	0.9120	0.8700-0.9700
3	PCB-23	1.24	1.07	0.88-1.20	0.8454	0.8000-0.9000
3	PCB-24	1.44	1.08	0.88-1.20	1.1046	1.0000-1.2000
3	PCB-25	1.36	1.06	0.88-1.20	0.8648	0.8000-0.9000
3	PCB-26	1.11	1.07	0.88-1.20	0.8593	0.8000-0.9000
3	PCB-27	1.41	1.03	0.88-1.20	1.1039	1.0000-1.2000
3	PCB-28	1.34	1.06	0.88-1.20	0.8787	0.8300-0.9300
3	PCB-29	1.12	1.05	0.88-1.20	0.8531	0.8000-0.9000
3	PCB-30	1.46	1.04	0.88-1.20	1.0396	1.0000-1.0800
3	PCB-31	1.13	1.04	0.88-1.20	0.8759	0.8300-0.9300
3	PCB-32	1.29	1.07	0.88-1.20	1.1265	1.0800-1.2300
3	PCB-34	0.98	1.03	0.88-1.20	0.8420	0.8000-0.9000
3	PCB-35	0.97	1.08	0.88-1.20	0.9868	0.9500-1.0100
3	PCB-36	1.05	1.07	0.88-1.20	0.9314	0.8800-0.9700
3	PCB-37	1.14	1.11	0.88-1.20	1.0007	0.9970-1.0030
3	PCB-38	1.09	1.07	0.88-1.20	0.9702	0.8900-0.9970
3	PCB-39	1.07	1.06	0.88-1.20	0.9466	0.8900-0.9970
4	PCB-40	0.56	0.78	0.65-0.89	1.2270	1.1800-1.2500
4	PCB-41/64/71/72	0.94	0.77	0.65-0.89	1.2097	1.1800-1.2600
4	PCB-42/59	0.87	0.78	0.65-0.89	1.1884	1.1400-1.2300
4	PCB-43/49	0.72	0.79	0.65-0.89	1.1423	1.1000-1.2000
4	PCB-44	0.64	0.78	0.65-0.89	1.1793	1.1300-1.2300
4	PCB-45	0.65	0.77	0.65-0.89	1.0962	1.0500-1.1500
4	PCB-46	0.62	0.77	0.65-0.89	1.1143	1.1000-1.2000

Analyst: [illegible] Date: 2/3/17

FORM 6C-HR
INDIVIDUAL CONGENER INITIAL CALIBRATION DATA SUMMARY
Page 2

Lab Name: Frontier Analytical Lab Contract:

Lab Code: FTR Case No.: MA No.: SDG NO.:

Inst. ID: FAL4 GC Column: DB1MS ID: 0.25 (mm) EPA Sample No.:Daily 209 161019A

Init. Calib. Date(s): 31-JAN-17

Init. Calib. Times: 14:09:52

CL No.	Analyte Name	RRF	IAR	IAR QC Limits	RRT	RRT QC Limits
4	PCB-47	0.91	0.76	0.65-0.89	1.1505	1.1000-1.2000
4	PCB-48/75	0.90	0.78	0.65-0.89	1.1546	1.1000-1.2000
4	PCB-50	0.74	0.77	0.65-0.89	1.0436	1.0000-1.1000
4	PCB-51	0.75	0.77	0.65-0.89	1.0806	1.0400-1.1000
4	PCB-52/69	0.95	0.77	0.65-0.89	1.1324	1.1000-1.2000
4	PCB-53	0.74	0.77	0.65-0.89	1.0674	1.0000-1.1000
4	PCB-54	0.99	0.77	0.65-0.89	1.0008	0.9970-1.0030
4	PCB-55	0.97	0.77	0.65-0.89	1.3085	1.2700-1.3300
4	PCB-56/60	1.06	0.76	0.65-0.89	0.9400	0.9000-1.0000
4	PCB-57	0.94	0.77	0.65-0.89	1.2410	1.2000-1.2800
4	PCB-58	0.99	0.82	0.65-0.89	1.2566	1.2100-1.2900
4	PCB-61/70	1.03	0.77	0.65-0.89	1.2805	1.2500-1.3000
4	PCB-62	0.84	0.78	0.65-0.89	1.1686	1.1000-1.2000
4	PCB-63	0.95	0.74	0.65-0.89	1.2624	1.2300-1.3000
4	PCB-65	0.95	0.77	0.65-0.89	1.1645	1.1000-1.2000
4	PCB-66/76	0.99	0.77	0.65-0.89	1.2879	1.2500-1.3000
4	PCB-67	0.86	0.76	0.65-0.89	1.2525	1.2300-1.3000
4	PCB-68	0.99	0.77	0.65-0.89	1.2196	1.1500-1.2500
4	PCB-73	0.85	0.78	0.65-0.89	1.1357	1.1000-1.2000
4	PCB-74	0.97	0.78	0.65-0.89	1.2731	1.2300-1.3000
4	PCB-77	0.99	0.78	0.65-0.89	1.0006	0.9970-1.0030
4	PCB-78	1.03	0.78	0.65-0.89	0.9866	0.9500-1.0100
4	PCB-79	1.08	0.78	0.65-0.89	0.9685	0.9300-1.0000
4	PCB-80	1.07	0.79	0.65-0.89	1.2969	1.2600-1.3100
4	PCB-81	1.07	0.77	0.65-0.89	1.0006	0.9970-1.0030
5	PCB-82	0.63	1.55	1.32-1.78	0.9755	0.9400-1.0000
5	PCB-83/112	0.84	1.48	1.32-1.78	0.9277	0.8800-0.9600
5	PCB-84/92	0.79	1.57	1.32-1.78	0.8951	0.8300-0.9500
5	PCB-85/116	0.89	1.58	1.32-1.78	0.9507	0.9100-0.9900
5	PCB-86	0.82	1.58	1.32-1.78	0.9412	0.9000-0.9700
5	PCB-87/117/125	0.95	1.53	1.32-1.78	0.9434	0.9000-0.9800
5	PCB-88/91	0.79	1.53	1.32-1.78	1.1122	1.0800-1.1600
5	PCB-89	0.73	1.57	1.32-1.78	0.8995	0.8300-0.9500
5	PCB-90/101	0.85	1.55	1.32-1.78	0.9038	0.8700-0.9500
5	PCB-93	0.70	1.64	1.32-1.78	1.1017	1.0800-1.1500
5	PCB-94	0.68	1.61	1.32-1.78	1.0834	1.0500-1.1000
5	PCB-95	0.74	1.59	1.32-1.78	1.1000	1.0800-1.1500
5	PCB-96	0.99	1.59	1.32-1.78	1.0401	1.0000-1.0800
5	PCB-97	0.92	1.55	1.32-1.78	0.9364	0.9000-0.9700
5	PCB-98/102	0.87	1.58	1.32-1.78	1.0984	1.0500-1.1100
5	PCB-99	0.88	1.51	1.32-1.78	0.9125	0.8800-0.9500
5	PCB-100	0.82	1.59	1.32-1.78	1.0684	1.0200-1.1000
5	PCB-103	0.82	1.60	1.32-1.78	1.0573	1.0000-1.0800
5	PCB-104	1.06	1.59	1.32-1.78	1.0008	0.9970-1.0030

Analyst: [illegible] Date: 2/3/17

FORM 6C-HR

INDIVIDUAL CONGENER INITIAL CALIBRATION DATA SUMMARY

Page 3

Lab Name: Frontier Analytical Lab Contract:

Lab Code: FTR Case No.: MA No.: SDG NO.:

Inst. ID: FAL4 GC Column: DB1MS ID: 0.25 (mm) EPA Sample No.:Daily 209 161019A

Init. Calib. Date(s): 31-JAN-17

Init. Calib. Times: 14:09:52

CL No.	Analyte Name	RRF	IAR	IAR QC Limits	RRT	RRT QC Limits
5	PCB-105	1.02	1.58	1.32-1.78	1.0007	0.9970-1.0030
5	PCB-107/108	0.99	1.56	1.32-1.78	0.9964	0.9600-1.0100
5	PCB-109	1.01	1.57	1.32-1.78	0.9321	0.9000-0.9600
5	PCB-110	1.07	1.57	1.32-1.78	0.9599	0.9300-0.9990
5	PCB-111/115	1.16	1.55	1.32-1.78	0.9473	0.9000-0.9850
5	PCB-113	1.01	1.57	1.32-1.78	0.9099	0.8800-0.9500
5	PCB-114	1.07	1.54	1.32-1.78	1.0007	0.9970-1.0030
5	PCB-118/106	0.96	1.57	1.32-1.78	1.0014	0.9970-1.0030
5	PCB-119	1.08	1.67	1.32-1.78	0.9238	0.8850-0.9600
5	PCB-120	1.12	1.54	1.32-1.78	0.9568	0.9200-0.9950
5	PCB-121	0.93	1.78	1.32-1.78	1.1155	1.0800-1.1600
5	PCB-122	0.96	1.57	1.32-1.78	1.0243	1.0000-1.0400
5	PCB-123	1.22	1.56	1.32-1.78	1.0007	0.9970-1.0030
5	PCB-124	1.04	1.50	1.32-1.78	0.9928	0.9600-1.0100
5	PCB-126	1.05	1.55	1.32-1.78	1.0007	0.9970-1.0030
5	PCB-127	0.89	1.60	1.32-1.78	1.0515	1.0100-1.0900
6	PCB-128/162	0.92	1.25	1.05-1.43	0.9918	0.9700-1.0100
6	PCB-129	0.69	1.24	1.05-1.43	0.9684	0.9300-0.9900
6	PCB-130	0.64	1.27	1.05-1.43	0.9495	0.9000-0.9900
6	PCB-131/133	0.85	1.29	1.05-1.43	0.9053	0.8700-0.9500
6	PCB-132/161	0.97	1.25	1.05-1.43	0.9192	0.8900-0.9400
6	PCB-134/143	0.83	1.26	1.05-1.43	0.8990	0.8700-0.9300
6	PCB-135	0.80	1.26	1.05-1.43	0.8744	0.8400-0.9000
6	PCB-136	0.93	1.27	1.05-1.43	1.0708	1.0300-1.0990
6	PCB-137	0.91	1.23	1.05-1.43	0.9476	0.9100-0.9800
6	PCB-138/163/164	1.10	1.26	1.05-1.43	0.9583	0.9000-0.9900
6	PCB-139/149	0.91	1.26	1.05-1.43	0.8857	0.8600-0.9100
6	PCB-140	0.91	1.25	1.05-1.43	0.8895	0.8600-0.9300
6	PCB-141	0.84	1.25	1.05-1.43	0.9394	0.9000-0.9700
6	PCB-142	0.73	1.15	1.05-1.43	0.9091	0.8900-0.9500
6	PCB-144	0.85	1.28	1.05-1.43	0.8769	0.8300-0.9100
6	PCB-145	0.89	1.28	1.05-1.43	1.0616	1.0300-1.0900
6	PCB-146/165	1.00	1.25	1.05-1.43	0.9142	0.8800-0.9400
6	PCB-147	0.95	1.26	1.05-1.43	0.8801	0.8600-0.9100
6	PCB-148	0.64	1.30	1.05-1.43	1.0733	1.0300-1.0990
6	PCB-150	0.91	1.28	1.05-1.43	1.0357	1.0000-1.0800
6	PCB-151	0.81	1.28	1.05-1.43	0.8700	0.8400-0.9000
6	PCB-152	0.90	1.28	1.05-1.43	1.0493	1.0000-1.0800
6	PCB-153	0.90	1.25	1.05-1.43	0.9230	0.8900-0.9600
6	PCB-154	0.78	1.29	1.05-1.43	1.0868	1.0400-1.1000
6	PCB-155	1.01	1.29	1.05-1.43	1.0012	0.9970-1.0030
6	PCB-156	0.97	1.26	1.05-1.43	1.0006	0.9970-1.0030
6	PCB-157	0.97	1.26	1.05-1.43	1.0000	0.9970-1.0030
6	PCB-158/160	1.09	1.25	1.05-1.43	0.9634	0.9300-0.9900

Analyst: [signature] Date: 2/3/17

FORM 6C-HR
INDIVIDUAL CONGENER INITIAL CALIBRATION DATA SUMMARY
Page 4

Lab Name: Frontier Analytical Lab Contract:

Lab Code: FTR Case No.: MA No.: SDG NO.:

Inst. ID: FAL4 GC Column: DB1MS ID: 0.25 (mm) EPA Sample No.:Daily 209 161019A

Init. Calib. Date(s): 31-JAN-17

Init. Calib. Times: 14:09:52

CL No.	Analyte Name	RRF	IAR	IAR QC Limits	RRT	RRT QC Limits
6	PCB-159	1.06	1.24	1.05-1.43	0.9855	0.9500-1.0000
6	PCB-166	1.07	1.25	1.05-1.43	0.9792	0.9400-1.0000
6	PCB-167	0.93	1.24	1.05-1.43	1.0006	0.9970-1.0030
6	PCB-168	1.10	1.24	1.05-1.43	0.9274	0.8900-0.9600
6	PCB-169	0.92	1.24	1.05-1.43	1.0006	0.9970-1.0030
7	PCB-170	0.70	1.08	0.89-1.21	0.9723	0.9400-0.9900
7	PCB-171	0.80	1.06	0.89-1.21	0.9214	0.8800-0.9500
7	PCB-172	0.75	1.06	0.89-1.21	0.9384	0.9000-0.9700
7	PCB-173	0.73	1.06	0.89-1.21	0.9299	0.9000-0.9700
7	PCB-174	0.93	1.05	0.89-1.21	0.9106	0.8800-0.9400
7	PCB-175	0.87	1.04	0.89-1.21	0.8807	0.8600-0.9100
7	PCB-176	1.12	1.07	0.89-1.21	0.8524	0.8300-0.8800
7	PCB-177	0.76	1.06	0.89-1.21	0.9157	0.8800-0.9400
7	PCB-178	0.82	1.06	0.89-1.21	0.8739	0.8400-0.9000
7	PCB-179	1.17	1.06	0.89-1.21	0.8433	0.8200-0.8800
7	PCB-180	0.96	1.05	0.89-1.21	0.9451	0.9000-0.9900
7	PCB-181	0.72	1.06	0.89-1.21	0.9129	0.8800-0.9400
7	PCB-182/187	0.92	1.05	0.89-1.21	0.8841	0.8500-0.9100
7	PCB-183	0.91	1.06	0.89-1.21	0.8903	0.8700-0.9100
7	PCB-184	1.21	1.05	0.89-1.21	0.8281	0.8000-0.8600
7	PCB-185	0.84	1.06	0.89-1.21	0.9033	0.8800-0.9300
7	PCB-186	1.12	1.05	0.89-1.21	0.8643	0.8300-0.8900
7	PCB-188	1.07	1.06	0.89-1.21	1.0007	0.9970-1.0030
7	PCB-189	1.04	1.06	0.89-1.21	1.0006	0.9970-1.0030
7	PCB-190	0.95	1.03	0.89-1.21	0.9757	0.9500-1.0000
7	PCB-191	1.02	1.04	0.89-1.21	0.9531	0.9000-0.9900
7	PCB-192	0.97	1.06	0.89-1.21	0.9417	0.9000-0.9900
7	PCB-193	1.06	1.07	0.89-1.21	0.9491	0.9000-0.9900
8	PCB-194	0.83	0.89	0.76-1.02	0.9949	0.9700-1.0100
8	PCB-195	0.78	0.88	0.76-1.02	0.9787	0.9500-1.0000
8	PCB-196/203	0.67	0.89	0.76-1.02	1.0703	1.0600-1.0850
8	PCB-197	0.92	0.90	0.76-1.02	1.0196	1.0000-1.0250
8	PCB-198	0.56	0.88	0.76-1.02	1.0630	1.0500-1.0700
8	PCB-199	0.68	0.90	0.76-1.02	1.0648	1.0400-1.0800
8	PCB-200	0.88	0.90	0.76-1.02	1.0361	1.0300-1.0500
8	PCB-201	0.93	0.89	0.76-1.02	1.0104	1.0000-1.0200
8	PCB-202	0.90	0.90	0.76-1.02	1.0006	0.9970-1.0030
8	PCB-204	0.85	0.90	0.76-1.02	1.0135	1.0000-1.0200
8	PCB-205	1.07	0.89	0.76-1.02	1.0000	0.9970-1.0030
9	PCB-206	0.93	1.34	1.13-1.53	1.0004	0.9970-1.0030
9	PCB-207	1.04	1.35	1.13-1.53	1.0065	1.0000-1.0100
9	PCB-208	0.91	1.35	1.13-1.53	1.0004	0.9970-1.0030
10	PCB-209	0.99	1.18	0.99-1.33	1.0004	0.9970-1.0030

Analyst: [illegible] Date: 2/3/17

FORM 6C-HR

INDIVIDUAL CONGENER INITIAL CALIBRATION DATA SUMMARY

Lab Name: Frontier Analytical Lab Contract:

Lab Code: FTR Case No.: MA No.: SDG NO.:

Inst. ID: FAL4 GC Column: DB1MS ID: 0.25 (mm) EPA Sample No.:Daily 209 16101

Init. Calib. Date(s): 31-JAN-17

Init. Calib. Times: 14:09:52

CL No.	Analyte Name	RRF	IAR	IAR QC Limits	RRT	RRT QC Limits
1	13C-PCB-1	1.01	3.25	2.66-3.60	0.7307	0.7200-0.7400
1	13C-PCB-3	0.97	3.23	2.66-3.60	0.8532	0.8450-0.8650
2	13C-PCB-4	0.63	1.55	1.32-1.78	0.9149	0.9100-0.9300
2	13C-PCB-15	0.94	1.59	1.32-1.78	1.1947	1.1800-1.2100
3	13C-PCB-19	0.57	1.07	0.88-1.20	1.1103	1.1000-1.1250
3	13C-PCB-37	1.14	1.08	0.88-1.20	1.0495	1.0350-1.0600
4	13C-PCB-54	1.12	0.79	0.65-0.89	0.8843	0.8750-0.9000
4	13C-PCB-77	1.01	0.79	0.65-0.89	1.0596	1.0500-1.0700
4	13C-PCB-81	1.02	0.80	0.65-0.89	1.0431	1.0350-1.0550
5	13C-PCB-104	0.82	1.56	1.32-1.78	1.0378	1.0300-1.0500
5	13C-PCB-105	1.09	1.58	1.32-1.78	0.9611	0.9500-0.9700
5	13C-PCB-114	1.11	1.60	1.32-1.78	0.9413	0.9300-0.9500
5	13C-PCB-118	1.18	1.61	1.32-1.78	0.9261	0.9150-0.9400
5	13C-PCB-123	1.07	1.60	1.32-1.78	0.9222	0.9150-0.9400
6	13C-PCB-126	0.90	1.57	1.05-1.43	1.0125	1.0000-1.0300
6	13C-PCB-155	1.02	1.28	1.05-1.43	0.9866	0.9750-1.0000
6	13C-PCB-156	1.01	1.27	1.05-1.43	1.0745	1.0650-1.0900
6	13C-PCB-157	1.04	1.26	1.05-1.43	1.0811	1.0700-1.1000
6	13C-PCB-167	1.09	1.24	1.05-1.43	1.0449	1.0350-1.0600
6	13C-PCB-169	0.87	1.22	1.05-1.43	1.1260	1.1100-1.1500
7	13C-PCB-188	1.14	1.07	0.88-1.20	0.9552	0.9450-0.9700
7	13C-PCB-189	0.85	1.06	0.88-1.20	1.1662	1.1500-1.1800
8	13C-PCB-202	0.92	0.92	0.76-1.02	1.0785	1.0650-1.0950
8	13C-PCB-205	1.19	0.93	0.76-1.02	1.0051	1.0000-1.0150
9	13C-PCB-206	0.94	0.80	0.65-0.89	1.0300	1.0200-1.0400
9	13C-PCB-208	1.31	0.80	0.65-0.89	0.9854	0.9750-1.0000
10	13C-PCB-209	1.29	1.20	0.99-1.33	1.0548	1.0450-1.0650
3	13C-PCB-28	1.38	1.06	0.88-1.20	0.9214	0.9150-0.9350
5	13C-PCB-111	1.11	1.60	1.32-1.78	1.0474	1.0350-1.0600
7	13C-PCB-178	0.80	1.08	0.89-1.21	1.0185	1.0100-1.0300

Analyst: [illegible] Date: 2/3/17

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1/31/17

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JAN17Z Sam:1 Analysis Date: 31-JAN-17 13:11:08

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	53.6	37.5 - 62.5
PCB-3	M/M+2	3.09	2.66-3.60	y	51.6	37.5 - 62.5
PCB-4	M/M+2	1.51	1.33-1.79	y	51.5	37.5 - 62.5
PCB-15	M/M+2	1.56	1.33-1.79	y	49.2	37.5 - 62.5
PCB-19	M/M+2	1.03	0.88-1.20	y	52.1	37.5 - 62.5
PCB-37	M/M+2	1.07	0.88-1.20	y	49.9	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	53.1	37.5 - 62.5
PCB-77	M/M+2	0.76	0.65-0.89	y	54.4	37.5 - 62.5
PCB-81	M/M+2	0.76	0.65-0.89	y	52.1	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	50.3	37.5 - 62.5
PCB-105	M+2/M+4	1.51	1.32-1.78	y	51.3	37.5 - 62.5
PCB-114	M+2/M+4	1.51	1.32-1.78	y	50.4	37.5 - 62.5
PCB-118/106	M+2/M+4	1.54	1.32-1.78	y	56.8	37.5 - 62.5
PCB-123	M+2/M+4	1.53	1.32-1.78	y	45.2	37.5 - 62.5
PCB-126	M+2/M+4	1.53	1.32-1.78	y	50.6	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	53.1	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	51.7	37.5 - 62.5
PCB-157	M+2/M+4	1.24	1.05-1.43	y	51.4	37.5 - 62.5
PCB-167	M+2/M+4	1.26	1.05-1.43	y	54.1	37.5 - 62.5
PCB-169	M+2/M+4	1.23	1.05-1.43	y	55.9	37.5 - 62.5
PCB-188	M+2/M+4	1.06	0.89-1.21	y	50.3	37.5 - 62.5
PCB-189	M+2/M+4	1.05	0.89-1.21	y	53.6	37.5 - 62.5
PCB-202	M+2/M+4	0.90	0.76-1.02	y	57.5	37.5 - 62.5
PCB-205	M+2/M+4	0.89	0.76-1.02	y	51.3	37.5 - 62.5
PCB-206	M+4/M+6	1.39	1.13-1.53	y	49.0	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	49.9	37.5 - 62.5
PCB-209	M+4/M+6	1.20	0.99-1.33	y	57.0	37.5 - 62.5

Analyst: [illegible] Date: 2/3/17

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1/31/17

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JAN17Z Sam:1 Analysis Date: 31-JAN-17 13:11:08

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.20	2.66-3.60	y	109	50.0 - 145
13C-PCB-3	M/M+2	3.22	2.66-3.60	y	108	50.0 - 145
13C-PCB-4	M/M+2	1.60	1.33-1.79	y	107	50.0 - 145
13C-PCB-15	M/M+2	1.57	1.33-1.79	y	102	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	110	50.0 - 145
13C-PCB-37	M/M+2	1.05	0.88-1.20	y	99.6	50.0 - 145
13C-PCB-54	M/M+2	0.79	0.65-0.89	y	109	50.0 - 145
13C-PCB-77	M/M+2	0.79	0.65-0.89	y	92.9	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	92.4	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	118	50.0 - 145
13C-PCB-105	M+2/M+4	1.63	1.32-1.78	y	99.4	50.0 - 145
13C-PCB-114	M+2/M+4	1.64	1.32-1.78	y	104	50.0 - 145
13C-PCB-118	M+2/M+4	1.65	1.32-1.78	y	103	50.0 - 145
13C-PCB-123	M+2/M+4	1.61	1.32-1.78	y	100	50.0 - 145
13C-PCB-126	M+2/M+4	1.55	1.32-1.78	y	95.9	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	107	50.0 - 145
13C-PCB-156	M+2/M+4	1.27	1.05-1.43	y	100	50.0 - 145
13C-PCB-157	M+2/M+4	1.25	1.05-1.43	y	106	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	104	50.0 - 145
13C-PCB-169	M+2/M+4	1.23	1.05-1.43	y	94.2	50.0 - 145
13C-PCB-188	M+2/M+4	1.09	0.89-1.21	y	120	50.0 - 145
13C-PCB-189	M+2/M+4	1.07	0.89-1.21	y	97.0	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	110	50.0 - 145
13C-PCB-205	M+2/M+4	0.92	0.76-1.02	y	111	50.0 - 145
13C-PCB-206	M+2/M+4	0.79	0.65-0.89	y	118	50.0 - 145
13C-PCB-208	M+2/M+4	0.80	0.65-0.89	y	125	50.0 - 145
13C-PCB-209	M+4/M+6	1.20	0.99-1.33	y	106	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.06	0.88-1.20	y	101	65.0 - 135
13C-PCB-111	M+2/M+4	1.62	1.32-1.78	y	104	75.0 - 125
13C-PCB-178	M+2/M+4	1.06	0.89-1.21	y	109	75.0 - 125

Analyst: _____ Date: 2/3/17

FAL ID: ST013117Z1 Filename: 31JAN17Z Sam:1 Acquired: 31-JAN-17 13:11:08 ICal: DAILY209FAL4-1-31-17
Client ID: 1668 CS3 R161111B ConCal: ST013117Z1 EndCal: ST013117Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	3.73e+07	3.17 y	14:32	0.98	53.6		3.00	-	-	*	
13C-PCB-1	7.11e+07	3.20 y	14:31	1.01	109		3.00				109
PCB-3	3.58e+07	3.09 y	16:58	1.03	51.6		3.00	-	-	*	
13C-PCB-3	6.75e+07	3.22 y	16:57	0.97	108		3.00				108
PCB-4	2.34e+07	1.51 y	18:12	1.05	51.5		3.00	-	-	*	
13C-PCB-4	4.31e+07	1.60 y	18:11	0.63	107		3.00				107
PCB-15	3.28e+07	1.56 y	23:46	1.07	49.2		3.00	-	-	*	
13C-PCB-15	6.22e+07	1.57 y	23:44	0.94	102		3.00				102
PCB-19	2.17e+07	1.03 y	22:05	1.03	52.1		3.00	-	-	*	
13C-PCB-19	4.06e+07	1.08 y	22:04	0.57	110		3.00				110
13C-PCB-9	6.45e+07	1.60 y	19:52	-	87.3		3.00				
PCB-37	2.71e+07	1.07 y	30:25	1.14	49.9		3.00	-	-	*	
13C-PCB-37	4.76e+07	1.05 y	30:25	1.14	99.6		3.00				100
PCB-54	2.71e+07	0.78 y	25:38	0.99	53.1		3.00	-	-	*	
13C-PCB-54	5.15e+07	0.79 y	25:37	1.12	109		3.00				109
PCB-104	2.17e+07	1.59 y	30:05	1.06	50.3		3.00	-	-	*	
13C-PCB-104	4.06e+07	1.59 y	30:04	0.82	118		3.00				118
13C-PCB-28	5.83e+07	1.06 y	26:43	1.38	101		3.00				101
13C-PCB-52	4.19e+07	0.78 y	28:58	-	84.3		3.00				
PCB-81	2.02e+07	0.76 y	36:12	1.07	52.1		3.00	-	-	*	
13C-PCB-81	3.63e+07	0.80 y	36:11	1.02	92.4		3.00				92
PCB-77	1.95e+07	0.76 y	36:46	0.99	54.4		3.00	-	-	*	
13C-PCB-77	3.62e+07	0.79 y	36:45	1.01	92.9		3.00				93
PCB-155	2.25e+07	1.27 y	34:15	1.01	53.1		3.00	-	-	*	
13C-PCB-155	4.20e+07	1.29 y	34:14	1.02	107		3.00				107
13C-PCB-111	4.49e+07	1.62 y	36:20	1.11	104		3.00				104
13C-PCB-101	3.87e+07	1.62 y	34:40	-	85.6		3.00				
PCB-123	1.88e+07	1.53 y	38:23	1.22	45.2		3.00	-	-	*	
13C-PCB-123	3.41e+07	1.61 y	38:23	1.07	100		3.00				100
PCB-118/106	2.12e+07	1.54 y	38:34	0.96	56.8		3.00	-	-	*	
13C-PCB-118	3.90e+07	1.65 y	38:33	1.18	103		3.00				103
PCB-114	1.98e+07	1.51 y	39:12	1.07	50.4		3.00	-	-	*	
13C-PCB-114	3.68e+07	1.64 y	39:11	1.11	104		3.00				104
PCB-105	1.80e+07	1.51 y	39:60	1.02	51.3		3.00	-	-	*	
13C-PCB-105	3.45e+07	1.63 y	39:58	1.09	99.4		3.00				99
PCB-126	1.46e+07	1.53 y	42:08	1.05	50.6		3.00	-	-	*	
13C-PCB-126	2.75e+07	1.55 y	42:08	0.90	95.9		3.00				96
PCB-167	1.81e+07	1.26 y	43:31	0.93	54.1		3.00	-	-	*	
13C-PCB-167	3.60e+07	1.26 y	43:29	1.09	104		3.00				104
PCB-156	1.62e+07	1.26 y	44:45	0.97	51.7		3.00	-	-	*	
13C-PCB-156	3.23e+07	1.27 y	44:43	1.01	100		3.00				100
PCB-157	1.77e+07	1.24 y	44:60	0.97	51.4		3.00	-	-	*	
13C-PCB-157	3.54e+07	1.25 y	44:58	1.04	106		3.00				106
PCB-169	1.34e+07	1.23 y	46:53	0.92	55.9		3.00	-	-	*	
13C-PCB-169	2.62e+07	1.23 y	46:51	0.87	94.2		3.00				94
PCB-188	2.36e+07	1.06 y	39:45	1.07	50.3		3.00	-	-	*	
13C-PCB-188	4.39e+07	1.09 y	39:45	1.14	120		3.00				120
PCB-189	1.46e+07	1.05 y	48:32	1.04	53.6		3.00	-	-	*	
13C-PCB-189	2.62e+07	1.07 y	48:32	0.85	97.0		3.00				97
PCB-202	1.66e+07	0.90 y	44:53	0.90	57.5		3.00	-	-	*	
13C-PCB-202	3.22e+07	0.92 y	44:53	0.92	110		3.00				110
13C-PCB-178	2.78e+07	1.06 y	42:23	0.80	109		3.00				109
13C-PCB-138	3.19e+07	1.26 y	41:37	-	77.8		3.00				

FAL ID: ST013117Z1 Filename: 31JAN17Z Sam:1 Acquired: 31-JAN-17 13:11:08 ICal: DAILY209FAL4-1-31-17
Client ID: 1668 CS3 R161111B ConCal: ST013117Z1 EndCal: ST013117Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	1.61e+07	0.89	y	50:13	1.07	51.3	3.00	-	-	*	
13C-PCB-205	2.92e+07	0.92	y	50:13	1.19	111	3.00				111
PCB-208	1.64e+07	1.34	y	49:16	0.91	49.9	3.00	-	-	*	
13C-PCB-208	3.61e+07	0.80	y	49:16	1.31	125	3.00				125
PCB-206	1.12e+07	1.39	y	51:28	0.93	49.0	3.00	-	-	*	
13C-PCB-206	2.45e+07	0.79	y	51:28	0.94	118	3.00				118
PCB-209	1.70e+07	1.20	y	52:44	0.99	57.0	3.00	-	-	*	
13C-PCB-209	3.01e+07	1.20	y	52:42	1.29	106	3.00				106
13C-PCB-194	2.21e+07	0.94	y	49:58	-	70.2	3.00				

Analyst: _____ Date: 2/3/17

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1/31/17

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JAN17Z Sam:13 Analysis Date: 1-FEB-17 00:52:16

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.13	2.66-3.60	y	56.5	37.5 - 62.5
PCB-3	M/M+2	3.12	2.66-3.60	y	54.0	37.5 - 62.5
PCB-4	M/M+2	1.54	1.33-1.79	y	52.4	37.5 - 62.5
PCB-15	M/M+2	1.58	1.33-1.79	y	51.7	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	54.7	37.5 - 62.5
PCB-37	M/M+2	1.07	0.88-1.20	y	51.2	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	54.1	37.5 - 62.5
PCB-77	M/M+2	0.77	0.65-0.89	y	56.6	37.5 - 62.5
PCB-81	M/M+2	0.77	0.65-0.89	y	55.1	37.5 - 62.5
PCB-104	M+2/M+4	1.60	1.32-1.78	y	51.6	37.5 - 62.5
PCB-105	M+2/M+4	1.55	1.32-1.78	y	53.0	37.5 - 62.5
PCB-114	M+2/M+4	1.54	1.32-1.78	y	50.7	37.5 - 62.5
PCB-118/106	M+2/M+4	1.55	1.32-1.78	y	60.2	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	43.3	37.5 - 62.5
PCB-126	M+2/M+4	1.54	1.32-1.78	y	50.9	37.5 - 62.5
PCB-155	M+2/M+4	1.30	1.05-1.43	y	55.2	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	54.0	37.5 - 62.5
PCB-157	M+2/M+4	1.31	1.05-1.43	y	52.3	37.5 - 62.5
PCB-167	M+2/M+4	1.28	1.05-1.43	y	56.1	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	55.8	37.5 - 62.5
PCB-188	M+2/M+4	1.07	0.89-1.21	y	51.5	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	55.1	37.5 - 62.5
PCB-202	M+2/M+4	0.89	0.76-1.02	y	58.6	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	52.6	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	51.6	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	51.5	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	57.8	37.5 - 62.5

Analyst: [signature] Date: 2/3/17

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 1/31/17

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JAN17Z Sam:13 Analysis Date: 1-FEB-17 00:52:16

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.24	2.66-3.60	y	100	50.0 - 145
13C-PCB-3	M/M+2	3.29	2.66-3.60	y	101	50.0 - 145
13C-PCB-4	M/M+2	1.56	1.33-1.79	y	107	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	105	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	98.7	50.0 - 145
13C-PCB-37	M/M+2	1.11	0.88-1.20	y	116	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	112	50.0 - 145
13C-PCB-77	M/M+2	0.83	0.65-0.89	y	116	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	115	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	108	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	1.63	1.32-1.78	y	110	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	115	50.0 - 145
13C-PCB-126	M+2/M+4	1.58	1.32-1.78	y	117	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	98.9	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	107	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	111	50.0 - 145
13C-PCB-167	M+2/M+4	1.25	1.05-1.43	y	108	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	109	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	106	50.0 - 145
13C-PCB-189	M+2/M+4	1.09	0.89-1.21	y	99.7	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	92.9	50.0 - 145
13C-PCB-205	M+2/M+4	0.92	0.76-1.02	y	108	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	107	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	112	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	91.0	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	1.60	1.32-1.78	y	113	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	99	75.0 - 125

Analyst: [illegible] Date: 2/3/17

FAL ID: ST013117Z2 Filename: 31JAN17Z Sam:13 Acquired: 1-FEB-17 00:52:16 ICal: DAILY209FAL4-1-31-17
Client ID: 1668 CS3 R161111B ConCal: ST013117Z1 EndCal: ST013117Z2
Results: GC Column: DB1MS Amount: 1.000

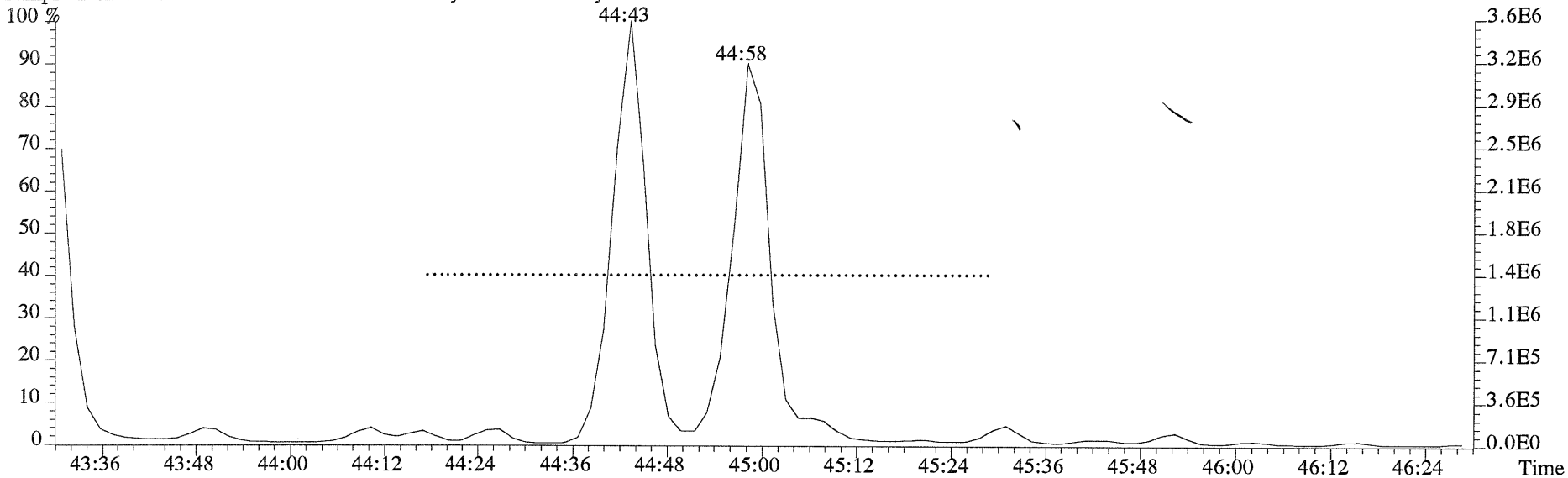
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	5.04e+07	3.13 y	14:33	0.98	56.5		3.00	-	-	*	
13C-PCB-1	9.12e+07	3.24 y	14:32	1.01	100		3.00				100
PCB-3	4.88e+07	3.12 y	16:59	1.03	54.0		3.00	-	-	*	
13C-PCB-3	8.79e+07	3.29 y	16:58	0.97	101		3.00				101
PCB-4	3.33e+07	1.54 y	18:12	1.05	52.4		3.00	-	-	*	
13C-PCB-4	6.04e+07	1.56 y	18:11	0.63	107		3.00				107
PCB-15	4.94e+07	1.58 y	23:46	1.07	51.7		3.00	-	-	*	
13C-PCB-15	8.91e+07	1.60 y	23:45	0.94	105		3.00				105
PCB-19	2.85e+07	1.04 y	22:06	1.03	54.7		3.00	-	-	*	
13C-PCB-19	5.07e+07	1.08 y	22:04	0.57	98.7		3.00				99
13C-PCB-9	8.97e+07	1.58 y	19:52	-	121		3.00				
PCB-37	4.06e+07	1.07 y	30:26	1.14	51.2		3.00	-	-	*	
13C-PCB-37	6.95e+07	1.11 y	30:25	1.14	116		3.00				116
PCB-54	3.56e+07	0.78 y	25:38	0.99	54.1		3.00	-	-	*	
13C-PCB-54	6.63e+07	0.80 y	25:37	1.12	112		3.00				112
PCB-104	2.56e+07	1.60 y	30:05	1.06	51.6		3.00	-	-	*	
13C-PCB-104	4.68e+07	1.59 y	30:04	0.82	108		3.00				108
13C-PCB-28	7.97e+07	1.07 y	26:43	1.38	110		3.00				110
13C-PCB-52	5.27e+07	0.78 y	28:58	-	106		3.00				
PCB-81	3.30e+07	0.77 y	36:12	1.07	55.1		3.00	-	-	*	
13C-PCB-81	5.62e+07	0.81 y	36:11	1.02	115		3.00				115
PCB-77	3.15e+07	0.77 y	36:47	0.99	56.6		3.00	-	-	*	
13C-PCB-77	5.63e+07	0.83 y	36:45	1.01	116		3.00				116
PCB-155	2.69e+07	1.30 y	34:15	1.01	55.2		3.00	-	-	*	
13C-PCB-155	4.84e+07	1.29 y	34:14	1.02	98.9		3.00				99
13C-PCB-111	6.05e+07	1.60 y	36:20	1.11	113		3.00				113
13C-PCB-101	4.81e+07	1.61 y	34:40	-	106		3.00				
PCB-123	2.94e+07	1.57 y	38:23	1.22	43.3		3.00	-	-	*	
13C-PCB-123	5.58e+07	1.60 y	38:23	1.07	115		3.00				115
PCB-118/106	3.39e+07	1.55 y	38:34	0.96	60.2		3.00	-	-	*	
13C-PCB-118	5.88e+07	1.63 y	38:33	1.18	110		3.00				110
PCB-114	3.09e+07	1.54 y	39:11	1.07	50.7		3.00	-	-	*	
13C-PCB-114	5.70e+07	1.62 y	39:11	1.11	113		3.00				113
PCB-105	3.00e+07	1.55 y	40:00	1.02	53.0		3.00	-	-	*	
13C-PCB-105	5.56e+07	1.61 y	40:00	1.09	113		3.00				113
PCB-126	2.54e+07	1.54 y	42:10	1.05	50.9		3.00	-	-	*	
13C-PCB-126	4.76e+07	1.58 y	42:08	0.90	117		3.00				117
PCB-167	2.78e+07	1.28 y	43:31	0.93	56.1		3.00	-	-	*	
13C-PCB-167	5.33e+07	1.25 y	43:29	1.09	108		3.00				108
PCB-156	2.56e+07	1.27 y	44:45	0.97	54.0		3.00	-	-	*	
13C-PCB-156	4.89e+07	1.28 y	44:43	1.01	107		3.00				107
PCB-157	2.67e+07	1.31 y	44:60	0.97	52.3		3.00	-	-	*	
13C-PCB-157	5.26e+07	1.30 y	44:58	1.04	111		3.00				111
PCB-169	2.21e+07	1.27 y	46:53	0.92	55.8		3.00	-	-	*	
13C-PCB-169	4.32e+07	1.25 y	46:52	0.87	109		3.00				109
PCB-188	3.01e+07	1.07 y	39:45	1.07	51.5		3.00	-	-	*	
13C-PCB-188	5.46e+07	1.08 y	39:44	1.14	106		3.00				106
PCB-189	2.20e+07	1.06 y	48:32	1.04	55.1		3.00	-	-	*	
13C-PCB-189	3.83e+07	1.09 y	48:32	0.85	99.7		3.00				100
PCB-202	2.03e+07	0.89 y	44:53	0.90	58.6		3.00	-	-	*	
13C-PCB-202	3.86e+07	0.93 y	44:51	0.92	92.9		3.00				93
13C-PCB-178	3.57e+07	1.08 y	42:23	0.80	98.7		3.00				99
13C-PCB-138	4.53e+07	1.26 y	41:37	-	110		3.00				

FAL ID: ST013117Z2 Filename: 31JAN17Z Sam:13 Acquired: 1-FEB-17 00:52:16 ICal: DAILY209FAL4-1-31-17
Client ID: 1668 CS3 R161111B ConCal: ST013117Z1 EndCal: ST013117Z2
Results: GC Column: DB1MS Amount: 1.000

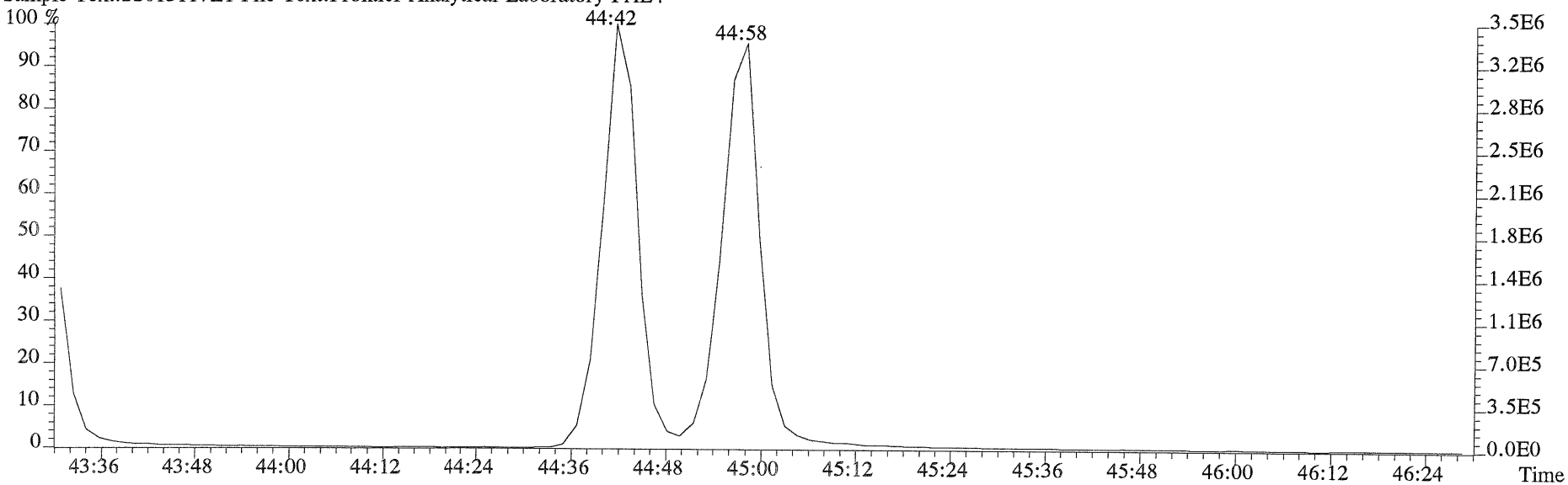
PCB-205	2.61e+07	0.90	y	50:15	1.07	52.6	3.00	-	-	*	
13C-PCB-205	4.63e+07	0.92	y	50:13	1.19	108	3.00				108
PCB-208	2.45e+07	1.34	y	49:16	0.91	51.5	3.00	-	-	*	
13C-PCB-208	5.25e+07	0.81	y	49:16	1.31	112	3.00				112
PCB-206	1.73e+07	1.37	y	51:29	0.93	51.6	3.00	-	-	*	
13C-PCB-206	3.61e+07	0.78	y	51:28	0.94	107	3.00				107
PCB-209	2.42e+07	1.18	y	52:45	0.99	57.8	3.00	-	-	*	
13C-PCB-209	4.22e+07	1.19	y	52:44	1.29	91.0	3.00				91
13C-PCB-194	3.60e+07	0.93	y	49:58	-	114	3.00				

Analyst: _____ Date: 2/3/17

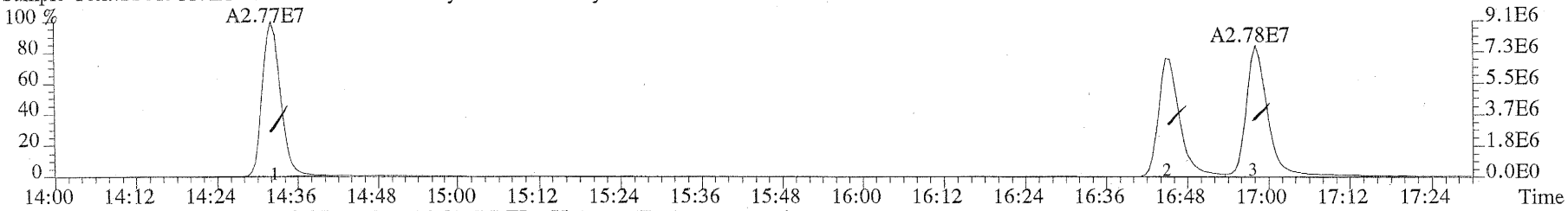
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory FAL4



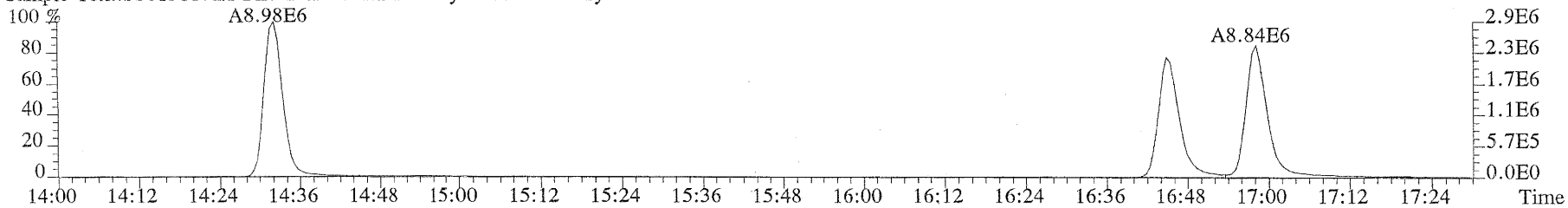
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory FAL4



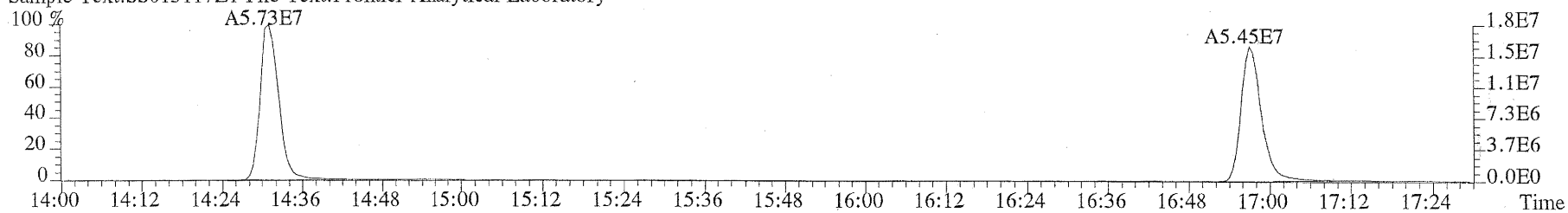
File:31JAN17Z #1-784 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



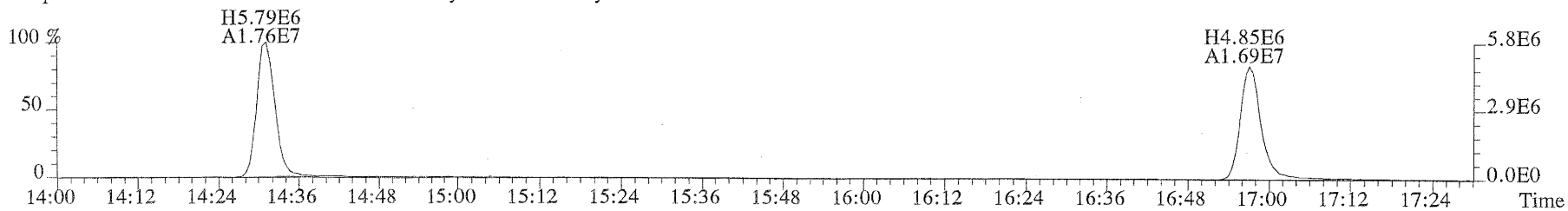
File:31JAN17Z #1-784 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



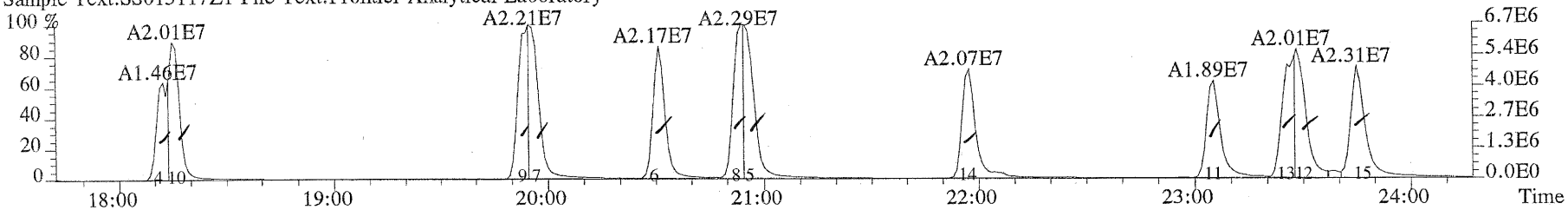
File:31JAN17Z #1-784 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



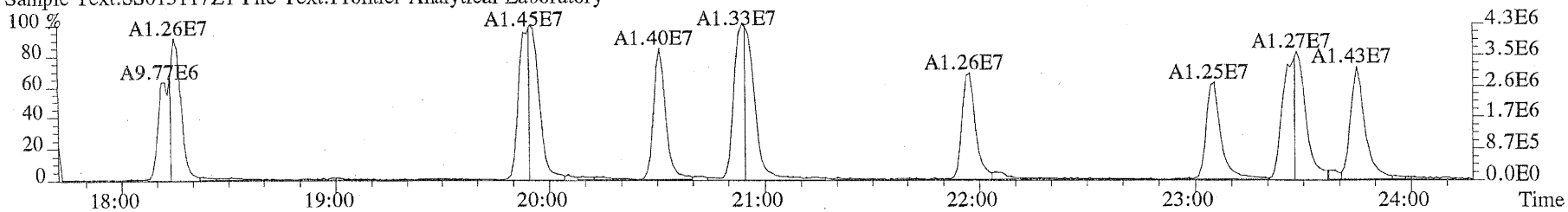
File:31JAN17Z #1-784 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



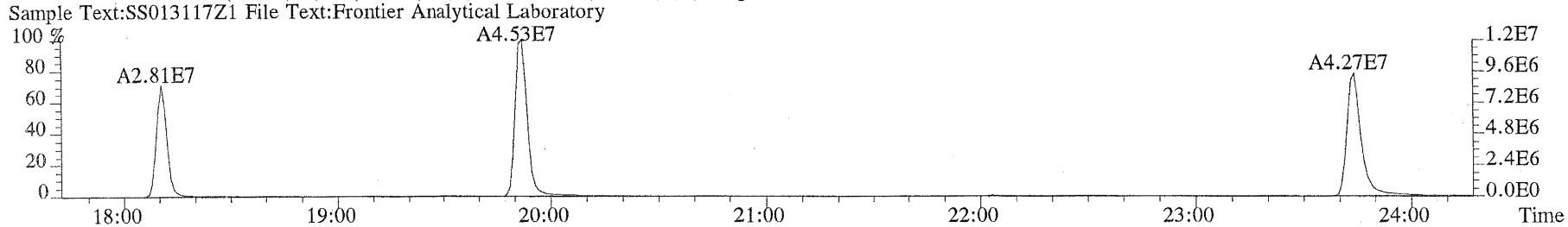
File:31JAN17Z #1-509 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



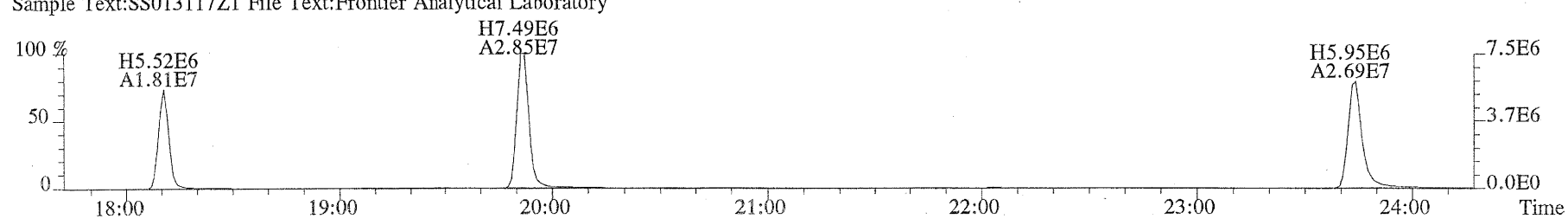
File:31JAN17Z #1-509 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



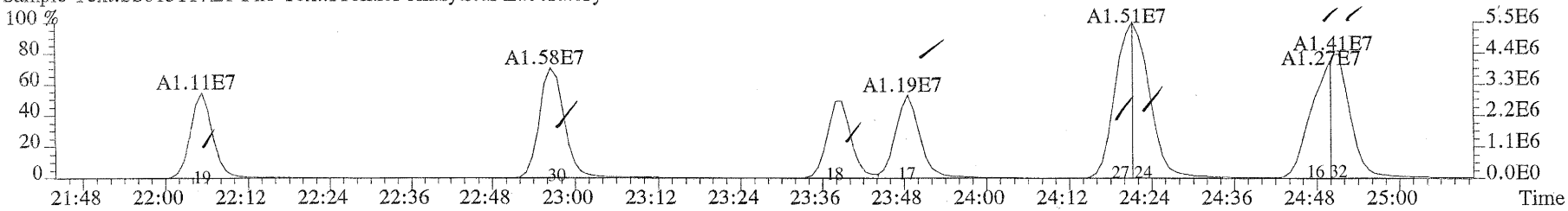
File:31JAN17Z #1-509 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



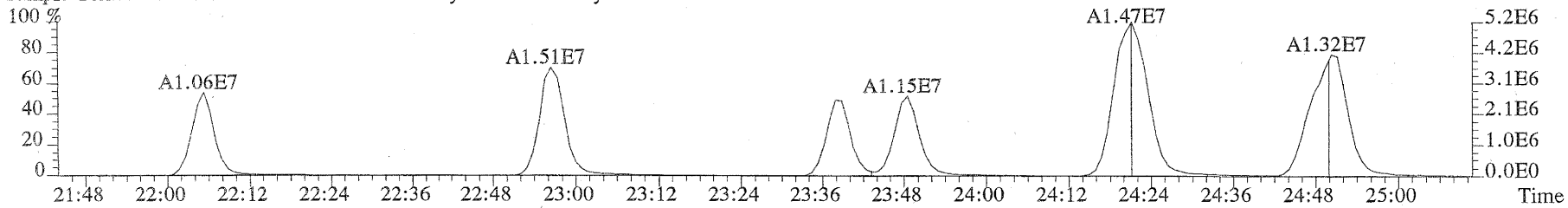
File:31JAN17Z #1-509 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



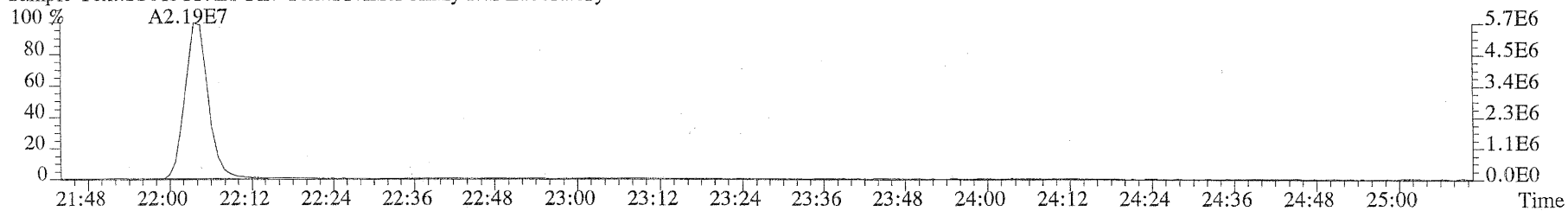
File:31JAN17Z #1-509 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



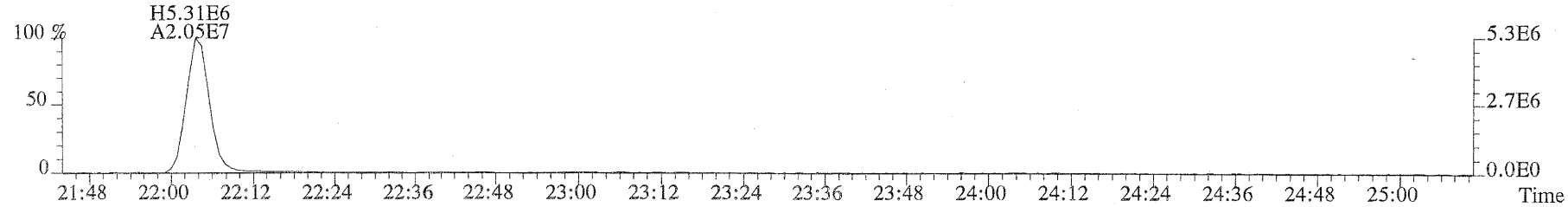
File:31JAN17Z #1-509 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



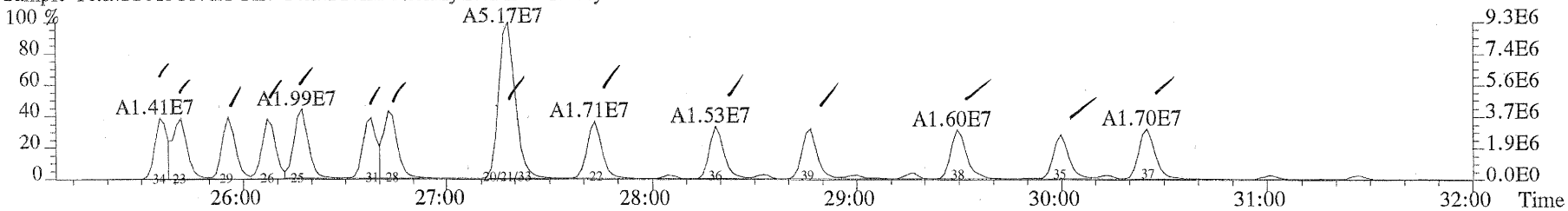
File:31JAN17Z #1-509 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



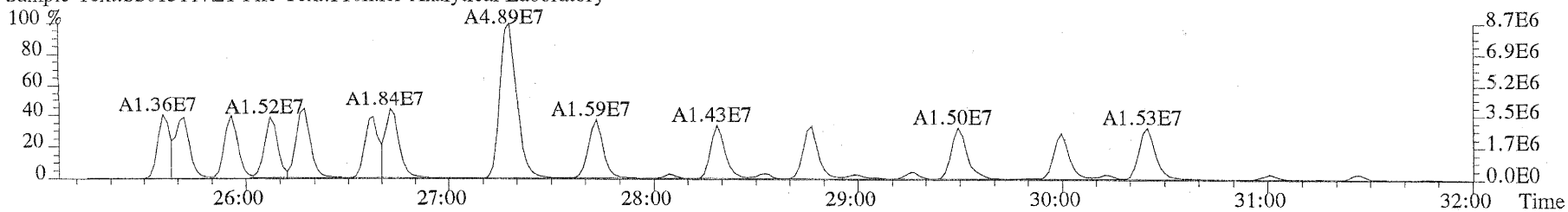
File:31JAN17Z #1-509 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



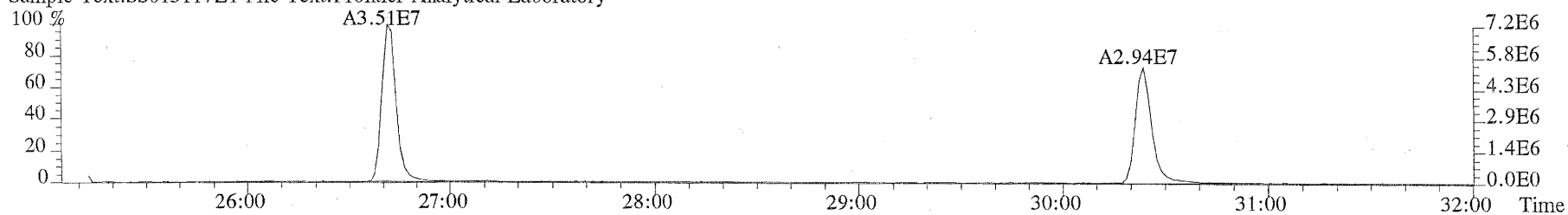
File:31JAN17Z #1-407 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



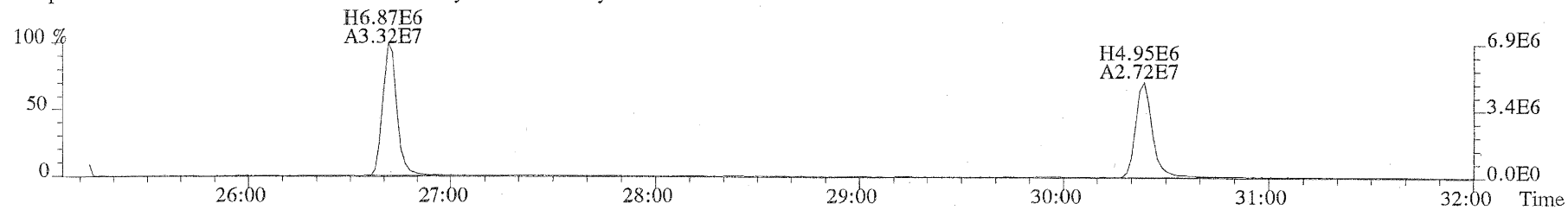
File:31JAN17Z #1-407 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



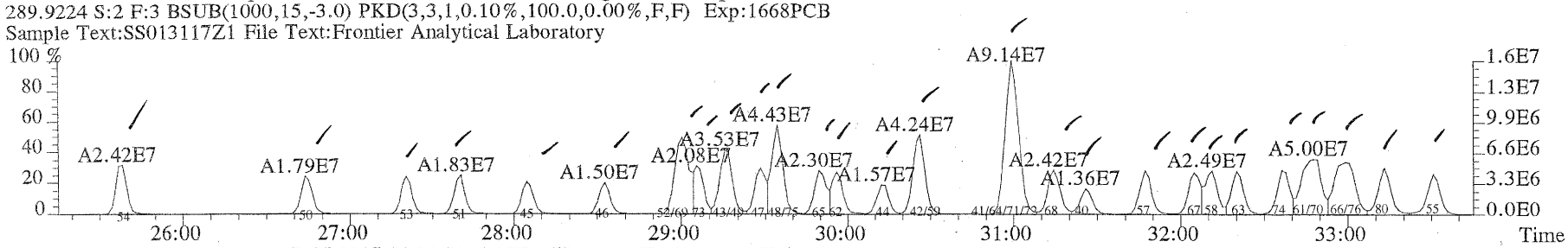
File:31JAN17Z #1-407 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



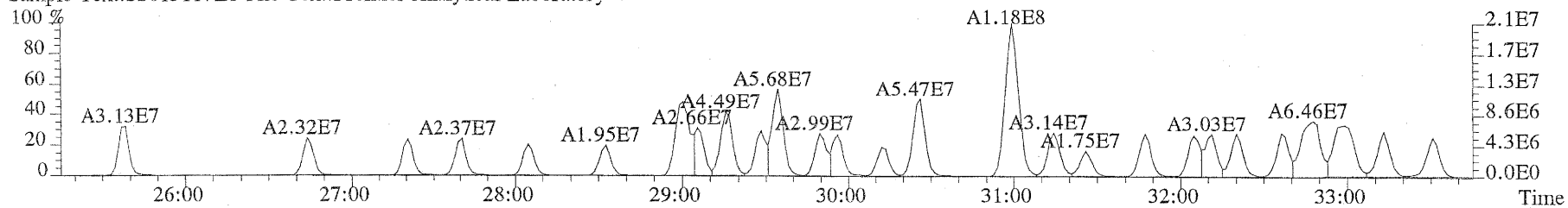
File:31JAN17Z #1-407 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



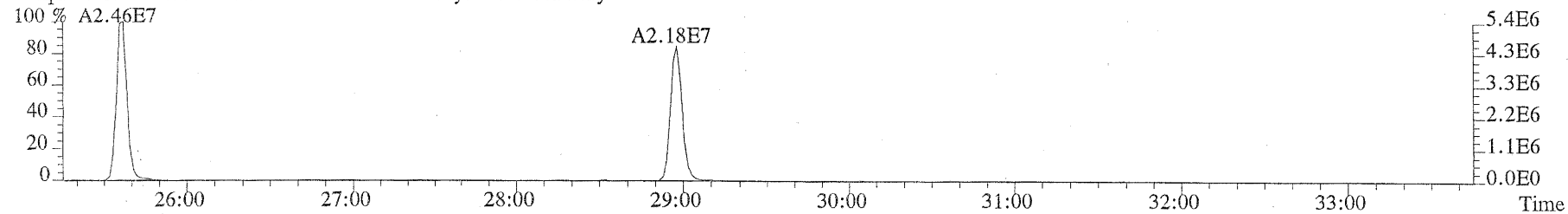
File:31JAN17Z #1-407 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



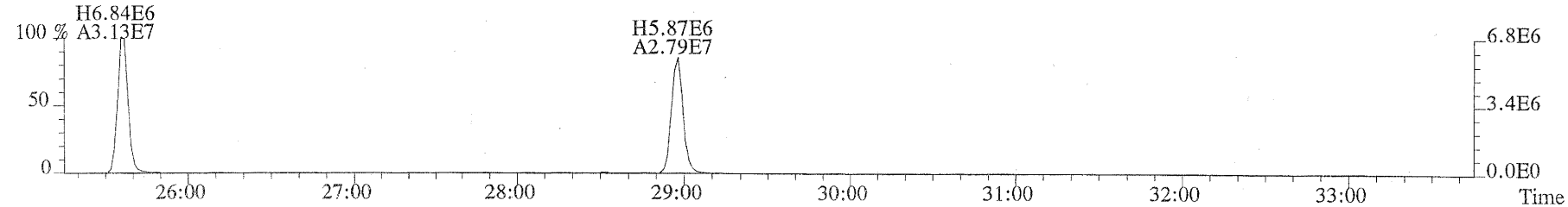
File:31JAN17Z #1-407 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



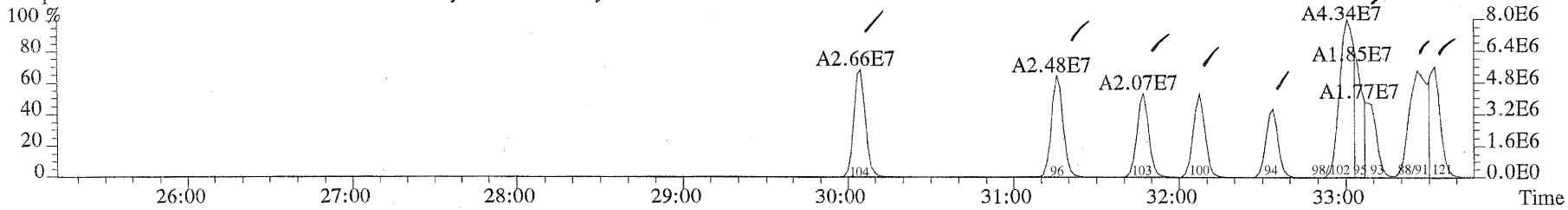
File:31JAN17Z #1-407 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



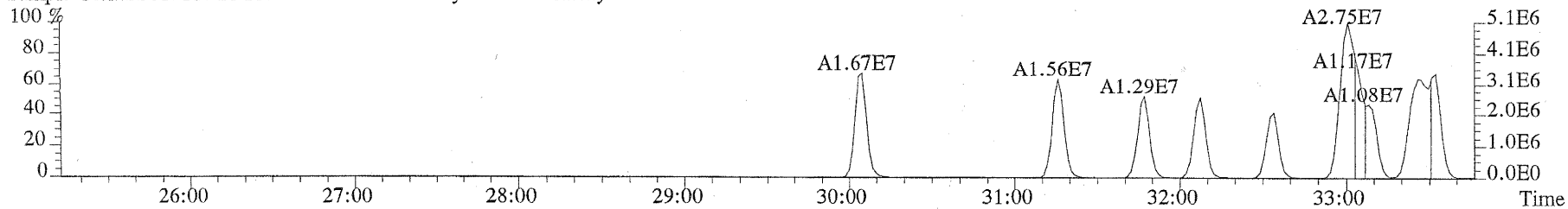
File:31JAN17Z #1-407 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



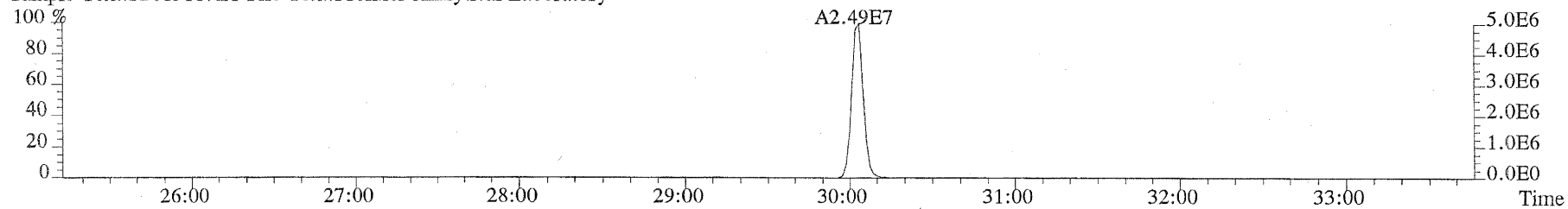
File:31JAN17Z #1-407 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



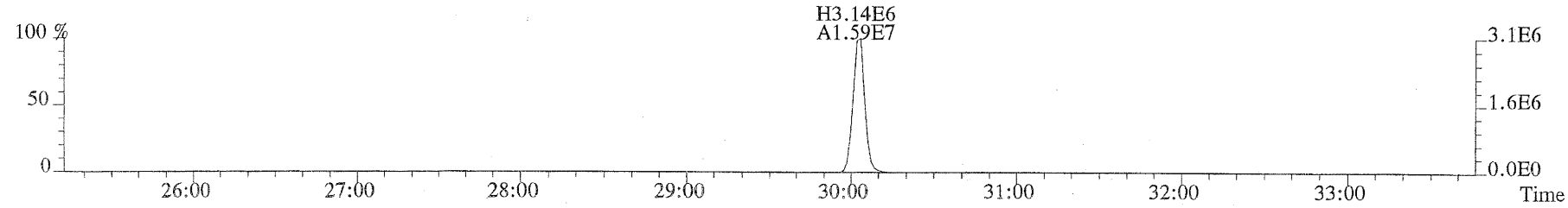
File:31JAN17Z #1-407 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



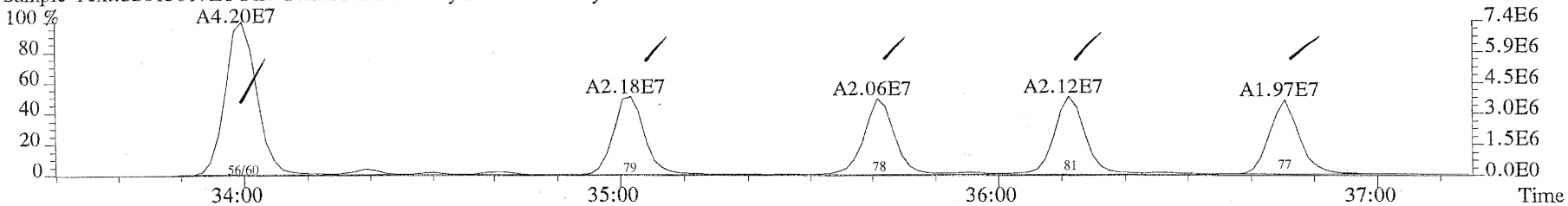
File:31JAN17Z #1-407 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



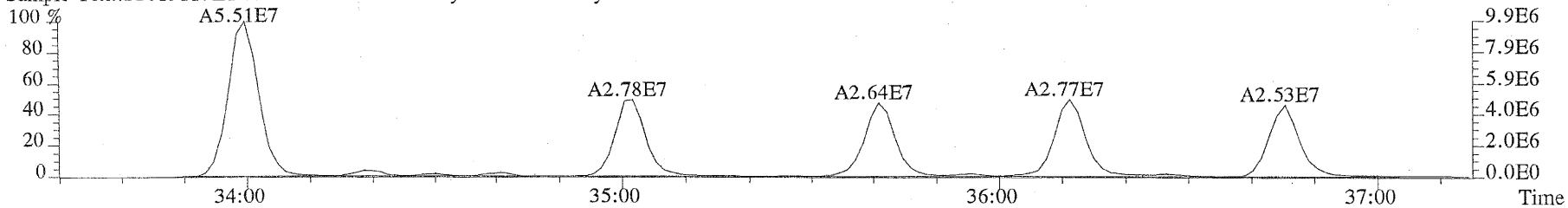
File:31JAN17Z #1-407 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



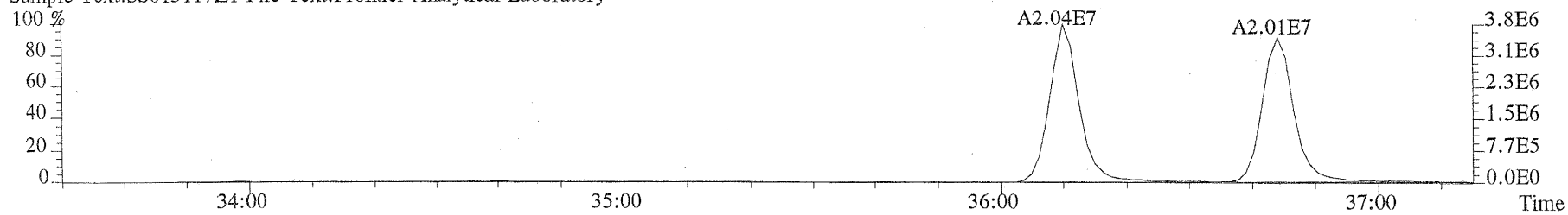
File:31JAN17Z #1-181 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



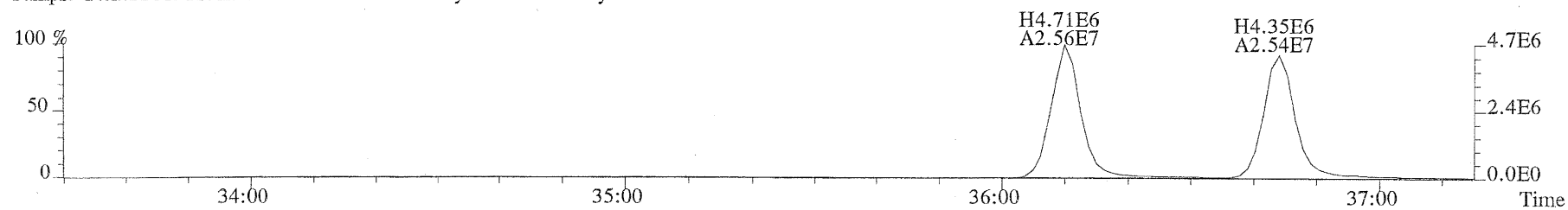
File:31JAN17Z #1-181 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



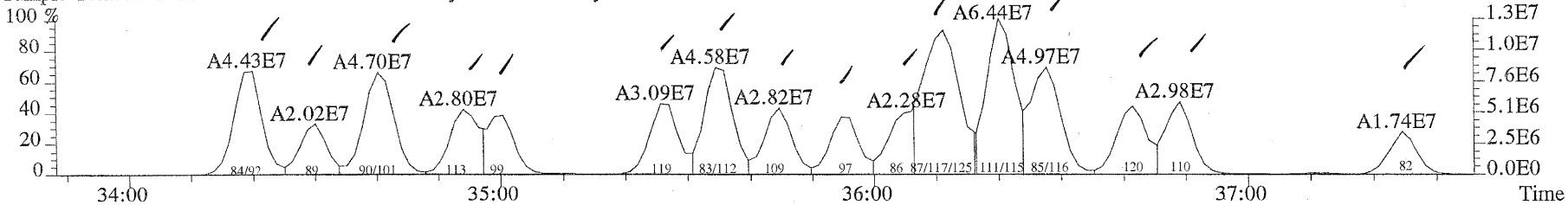
File:31JAN17Z #1-181 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



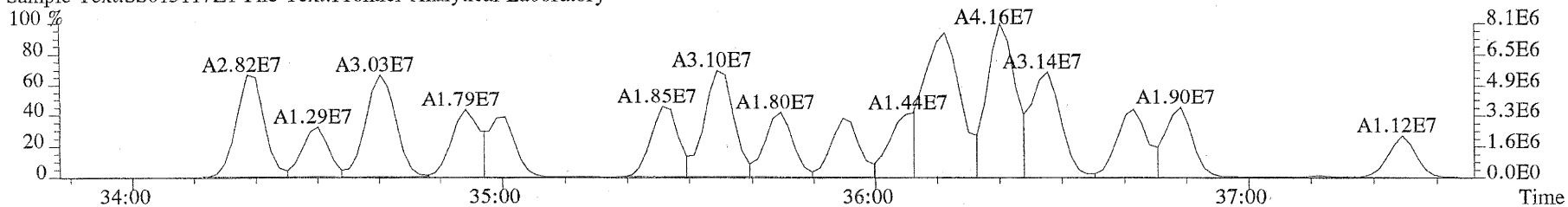
File:31JAN17Z #1-181 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



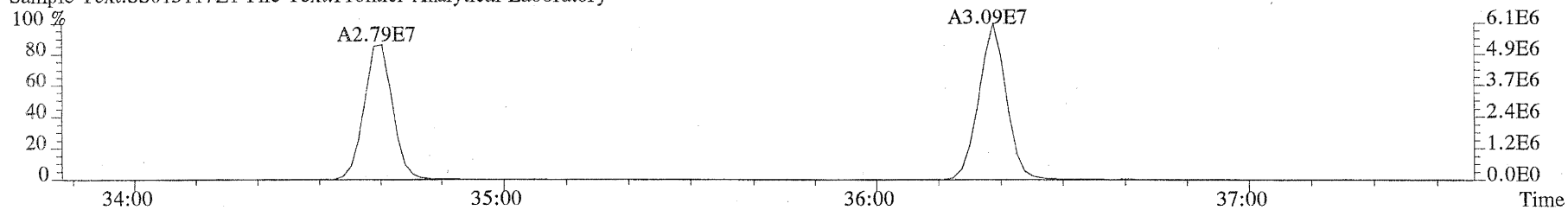
File:31JAN17Z #1-181 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



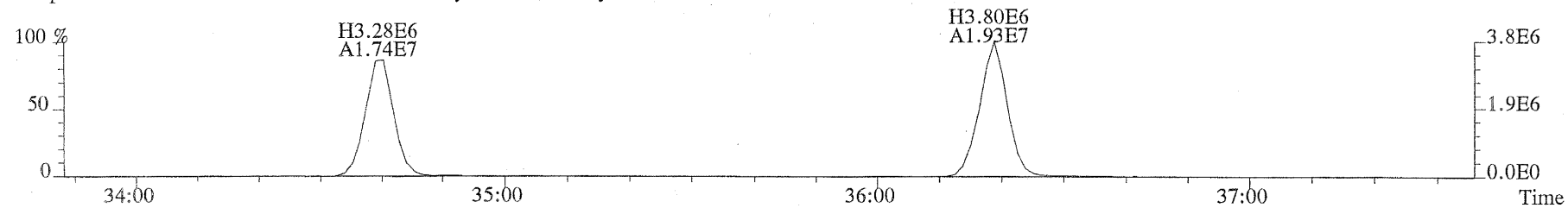
File:31JAN17Z #1-181 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



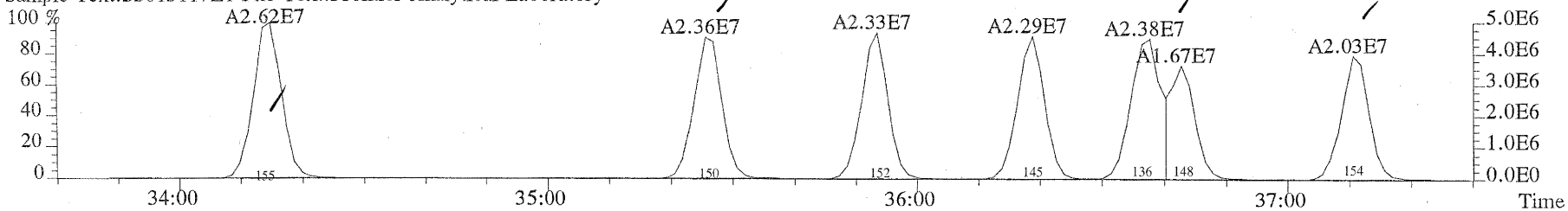
File:31JAN17Z #1-181 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



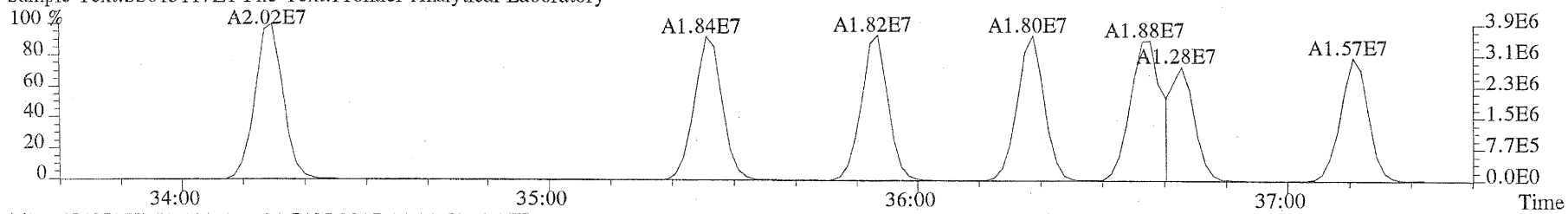
File:31JAN17Z #1-181 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



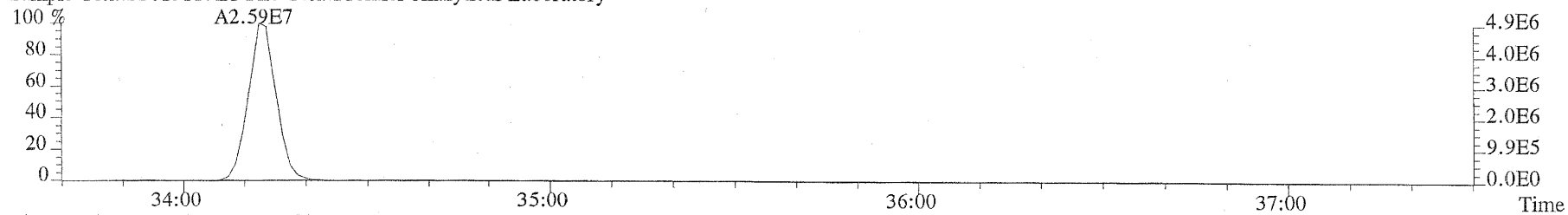
File:31JAN17Z #1-181 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



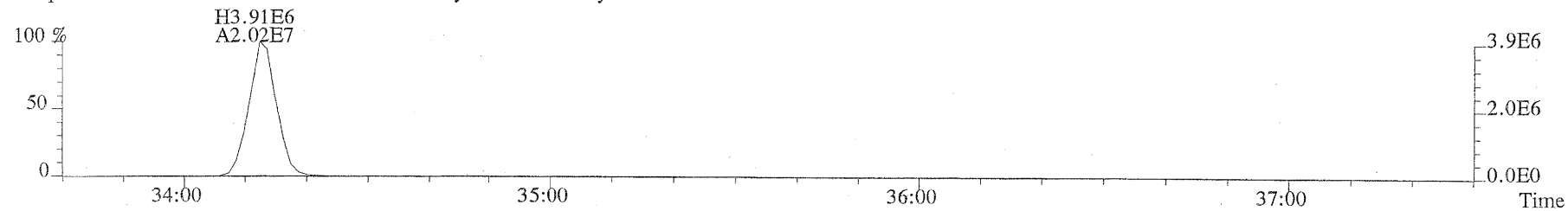
File:31JAN17Z #1-181 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



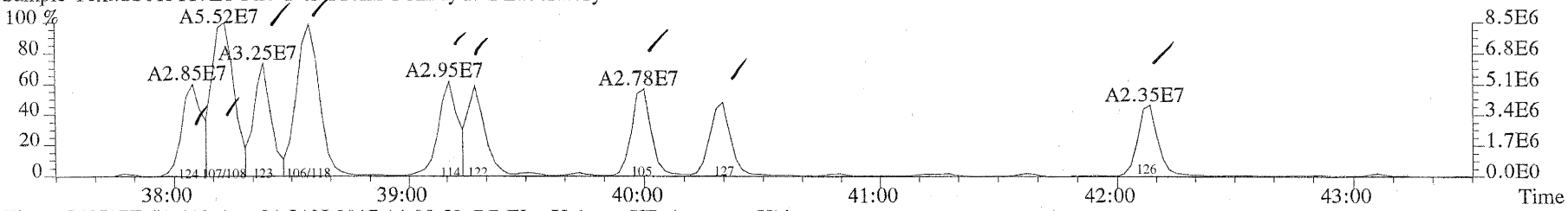
File:31JAN17Z #1-181 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



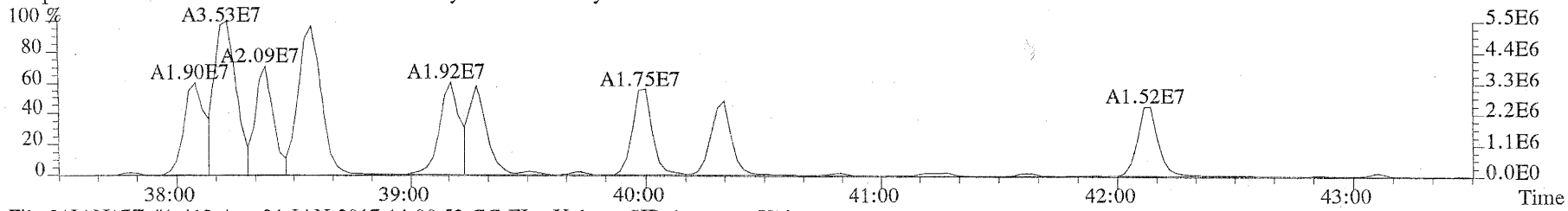
File:31JAN17Z #1-181 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



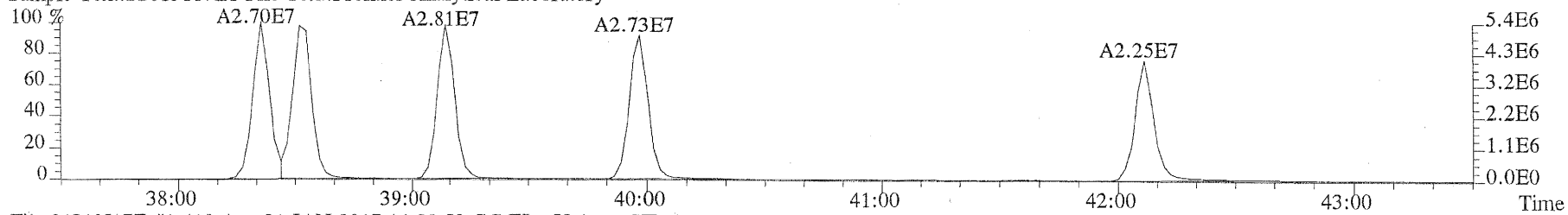
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



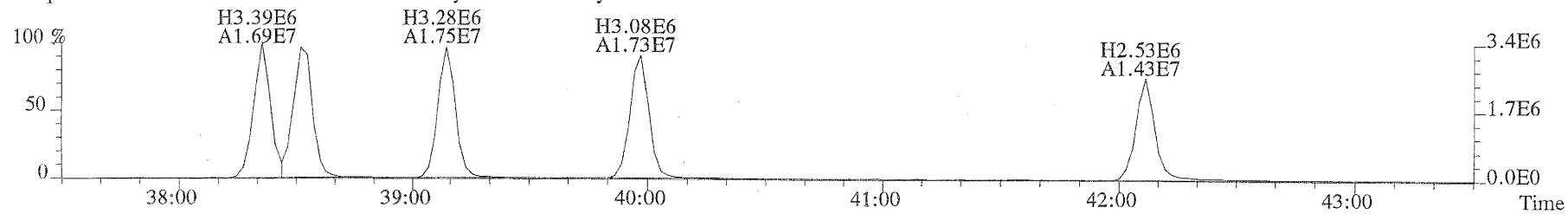
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



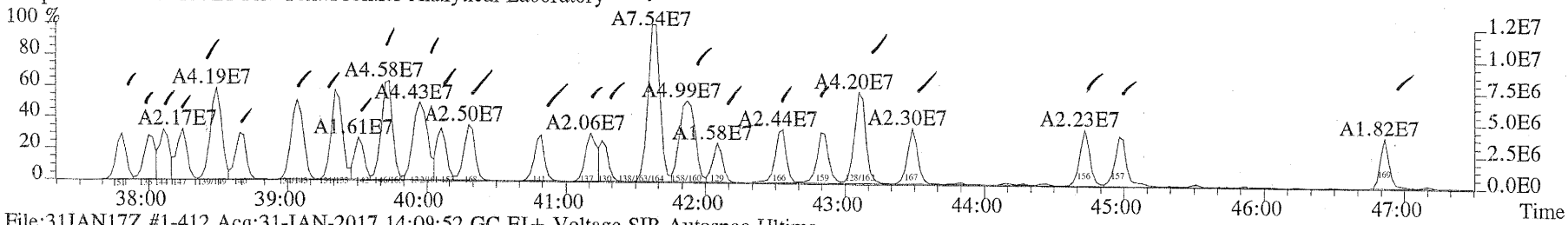
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 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:SS013117Z1 File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 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:SS013117Z1 File Text:Frontier Analytical Laboratory



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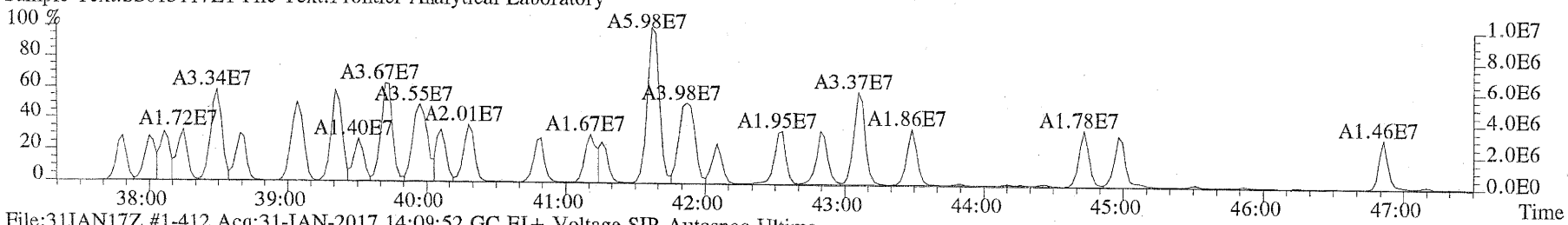
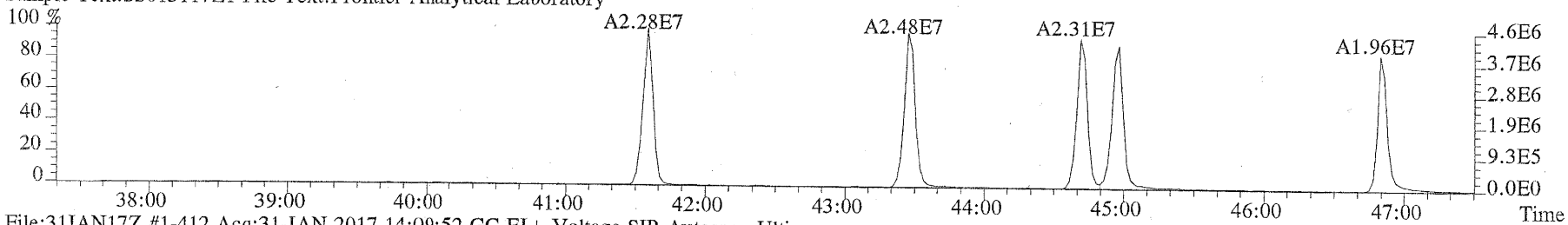
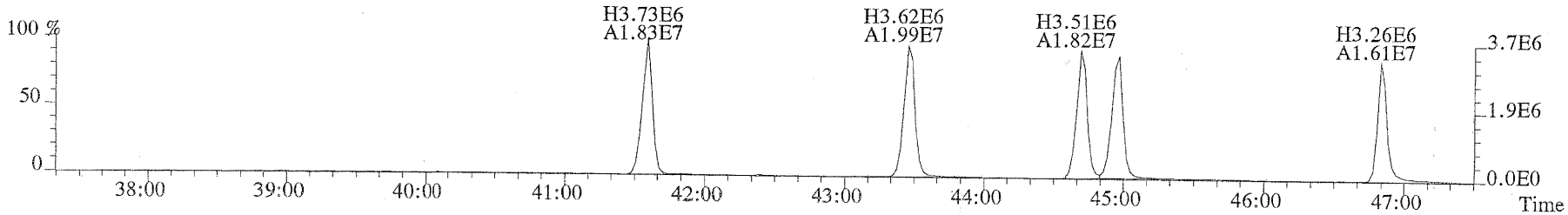
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



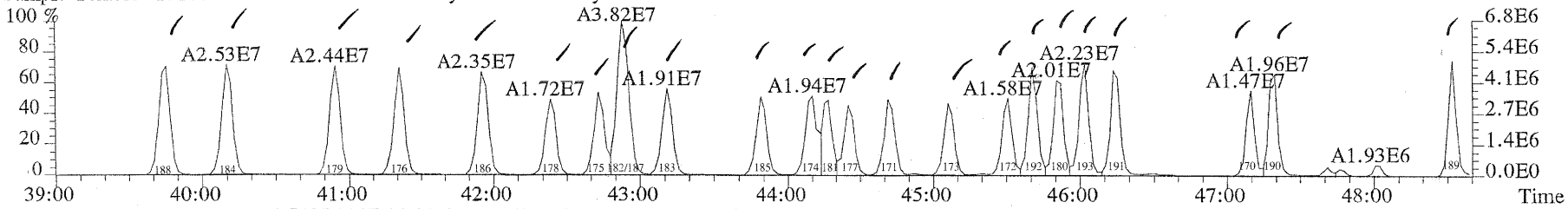
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



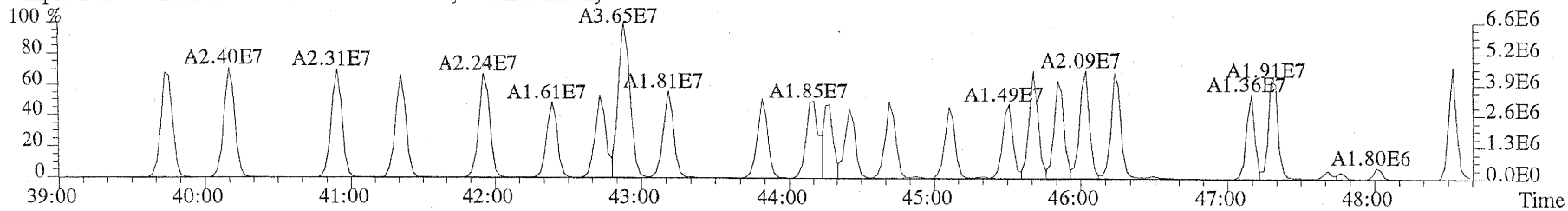
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



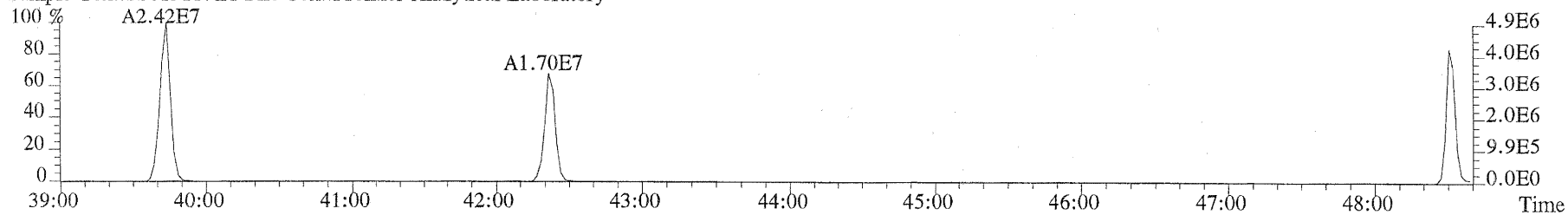
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



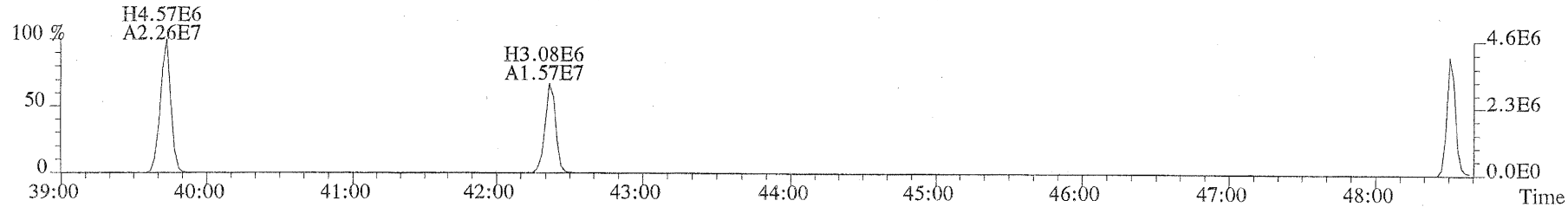
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



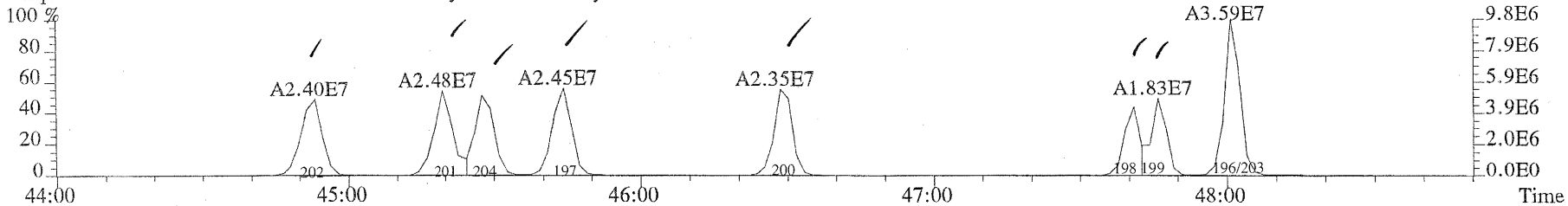
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



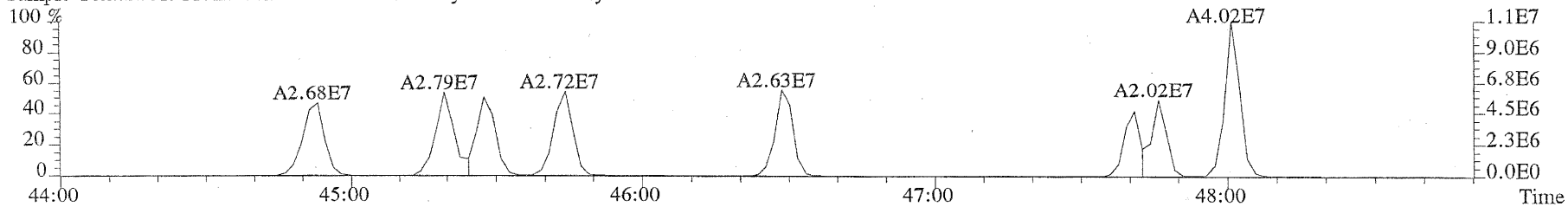
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



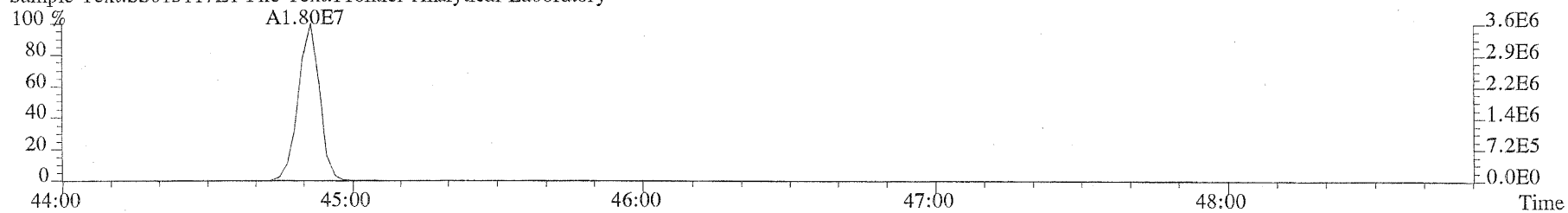
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



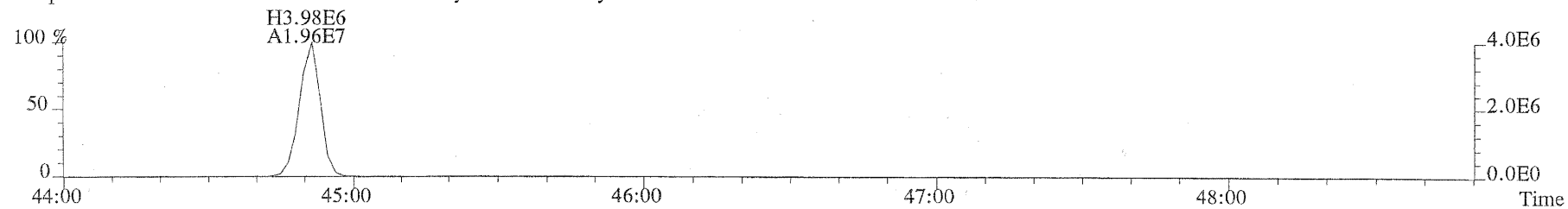
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



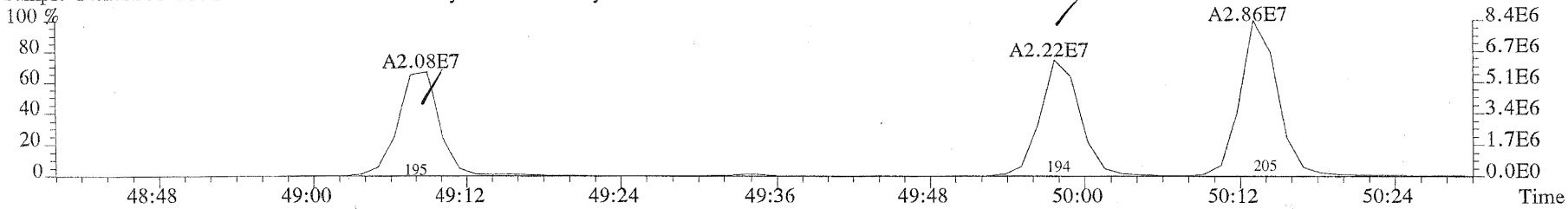
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



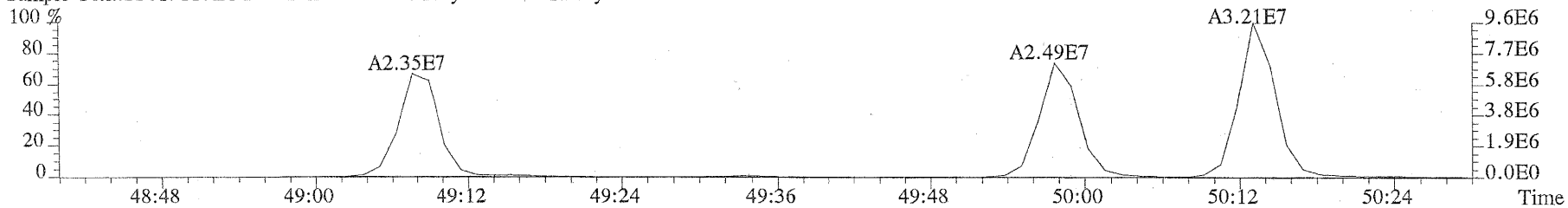
File:31JAN17Z #1-412 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



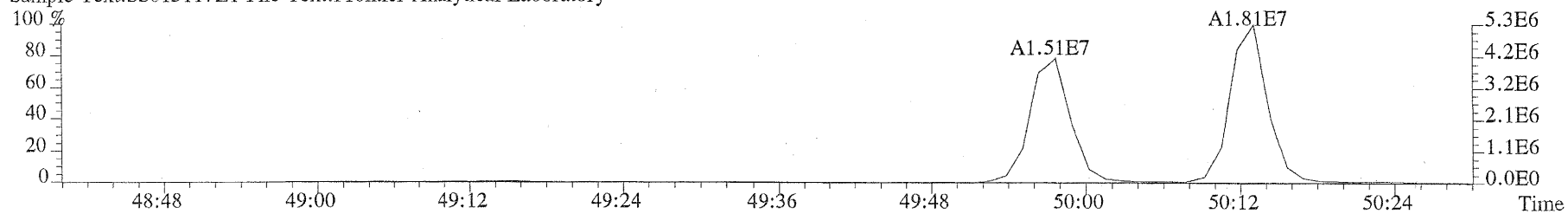
File:31JAN17Z #1-307 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



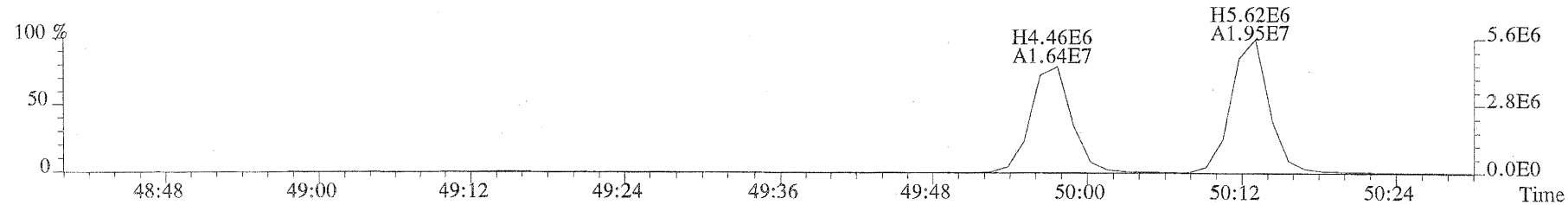
File:31JAN17Z #1-307 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



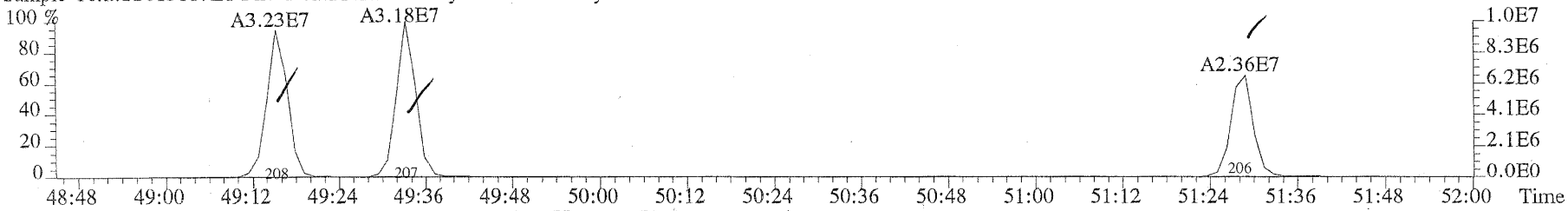
File:31JAN17Z #1-307 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



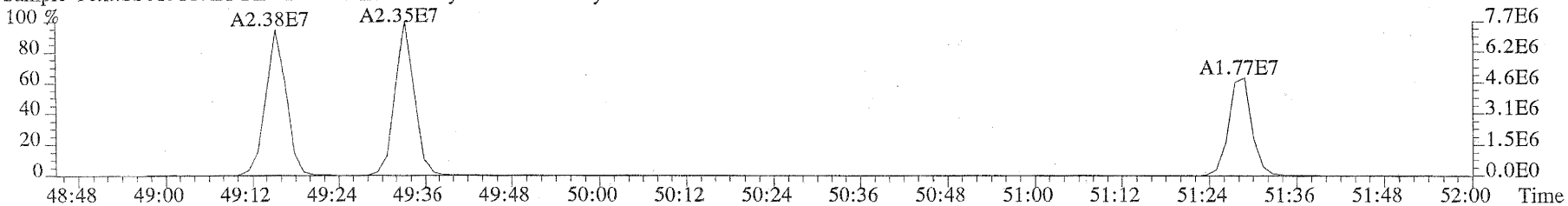
File:31JAN17Z #1-307 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 14:09:52 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:SS013117Z1 File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 14:09:52 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:SS013117Z1 File Text:Frontier Analytical Laboratory



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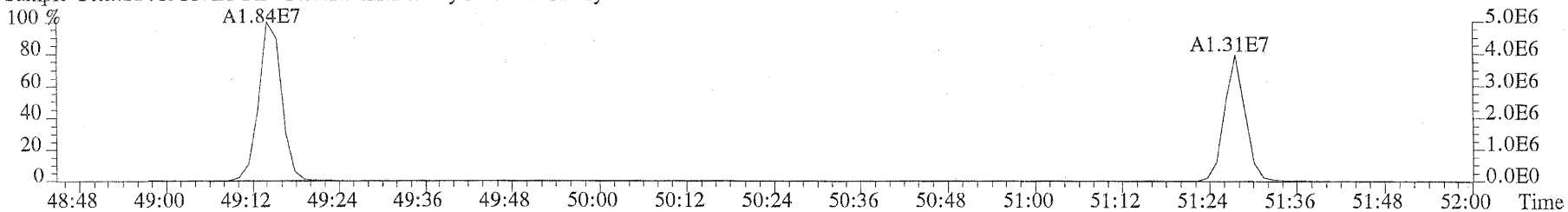
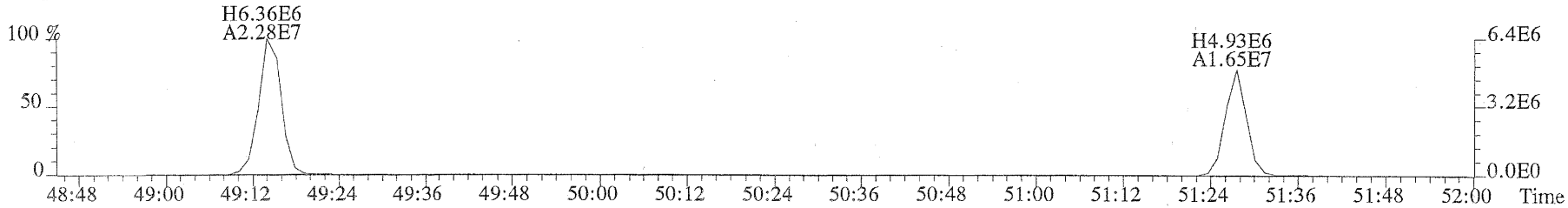
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 14:09:52 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:SS013117Z1 File Text:Frontier Analytical Laboratory



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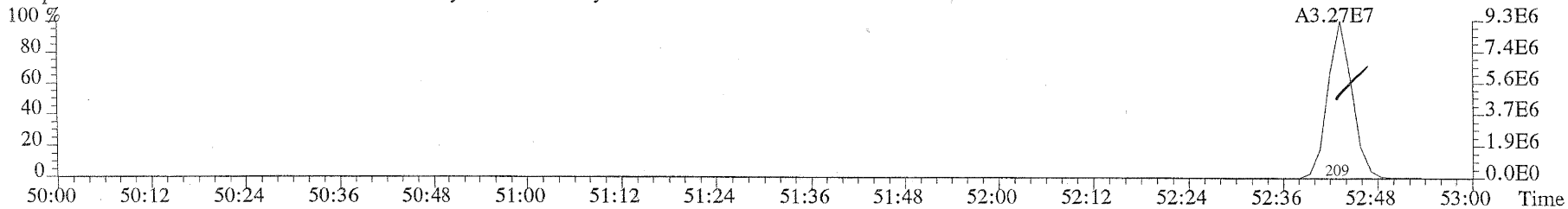
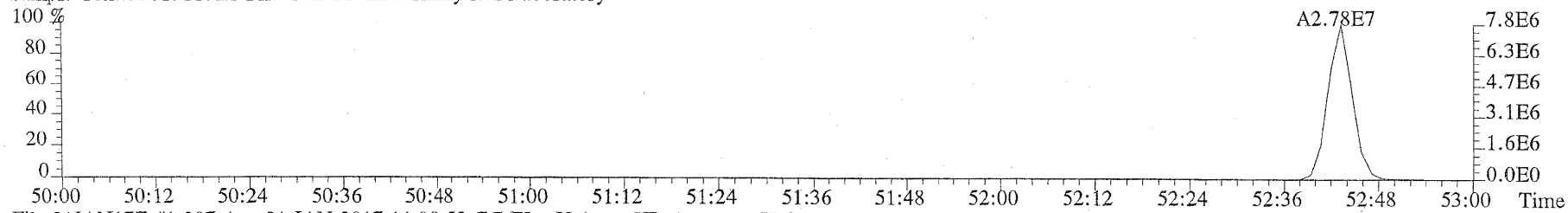
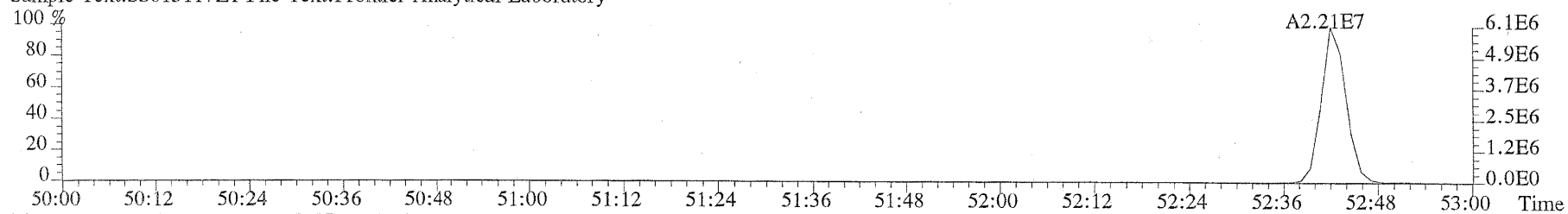
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



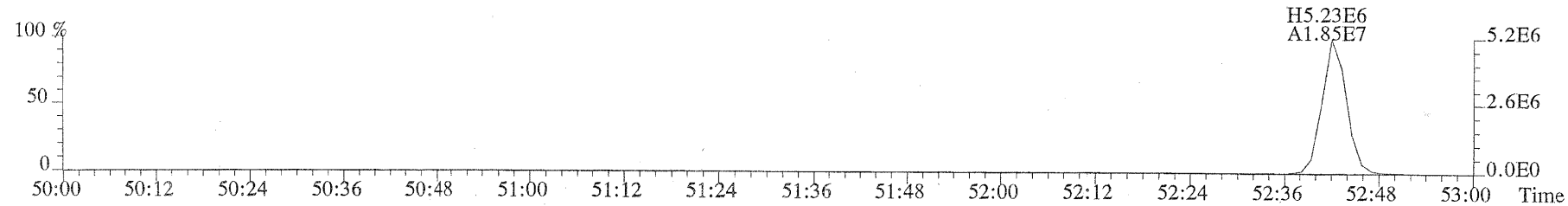
File:31JAN17Z #1-307 Acq:31-JAN-2017 14:09:52 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS013117Z1 File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 14:09:52 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:SS013117Z1 File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-307 Acq:31-JAN-2017 14:09:52 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:SS013117Z1 File Text:Frontier Analytical Laboratory



USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JAN17Z Sam:13 Analysis Date: 1-FEB-17 00:52:16

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.13	2.66-3.60	y	52.6	37.5 - 62.5
PCB-3	M/M+2	3.12	2.66-3.60	y	53.0	37.5 - 62.5
PCB-4	M/M+2	1.54	1.33-1.79	y	48.5	37.5 - 62.5
PCB-15	M/M+2	1.58	1.33-1.79	y	50.9	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	48.4	37.5 - 62.5
PCB-37	M/M+2	1.07	0.88-1.20	y	51.1	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	51.1	37.5 - 62.5
PCB-77	M/M+2	0.77	0.65-0.89	y	50.8	37.5 - 62.5
PCB-81	M/M+2	0.77	0.65-0.89	y	51.2	37.5 - 62.5
PCB-104	M+2/M+4	1.60	1.32-1.78	y	48.0	37.5 - 62.5
PCB-105	M+2/M+4	1.55	1.32-1.78	y	49.9	37.5 - 62.5
PCB-114	M+2/M+4	1.54	1.32-1.78	y	49.9	37.5 - 62.5
PCB-118	M+2/M+4	1.55	1.32-1.78	y	54.2	37.5 - 62.5
PCB-123	M+2/M+4	1.57	1.32-1.78	y	50.1	37.5 - 62.5
PCB-126	M+2/M+4	1.54	1.32-1.78	y	50.0	37.5 - 62.5
PCB-155	M+2/M+4	1.30	1.05-1.43	y	50.1	37.5 - 62.5
PCB-156	M+2/M+4	1.27	1.05-1.43	y	51.8	37.5 - 62.5
PCB-157	M+2/M+4	1.31	1.05-1.43	y	52.7	37.5 - 62.5
PCB-167	M+2/M+4	1.28	1.05-1.43	y	53.3	37.5 - 62.5
PCB-169	M+2/M+4	1.27	1.05-1.43	y	51.3	37.5 - 62.5
PCB-188	M+2/M+4	1.07	0.89-1.21	y	50.4	37.5 - 62.5
PCB-189	M+2/M+4	1.06	0.89-1.21	y	50.4	37.5 - 62.5
PCB-202	M+2/M+4	0.89	0.76-1.02	y	50.0	37.5 - 62.5
PCB-205	M+2/M+4	0.90	0.76-1.02	y	55.6	37.5 - 62.5
PCB-206	M+4/M+6	1.37	1.13-1.53	y	51.2	37.5 - 62.5
PCB-208	M+4/M+6	1.34	1.13-1.53	y	50.2	37.5 - 62.5
PCB-209	M+4/M+6	1.18	0.99-1.33	y	52.0	37.5 - 62.5

Analyst: [signature] Date: 2/1/17

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/11/16

Instrument ID: FAL4 GC Column ID: DB1MS

VER Data Filename: 31JAN17Z Sam:13 Analysis Date: 1-FEB-17 00:52:16

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-PCB-1	M/M+2	3.24	2.66-3.60	y	89.4	50.0 - 145
13C-PCB-3	M/M+2	3.29	2.66-3.60	y	88.5	50.0 - 145
13C-PCB-4	M/M+2	1.56	1.33-1.79	y	99.6	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	97.0	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	92.0	50.0 - 145
13C-PCB-37	M/M+2	1.11	0.88-1.20	y	95.9	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	100	50.0 - 145
13C-PCB-77	M/M+2	0.83	0.65-0.89	y	92.1	50.0 - 145
13C-PCB-81	M/M+2	0.81	0.65-0.89	y	92.0	50.0 - 145
13C-PCB-104	M+2/M+4	1.59	1.32-1.78	y	97.6	50.0 - 145
13C-PCB-105	M+2/M+4	1.61	1.32-1.78	y	99.0	50.0 - 145
13C-PCB-114	M+2/M+4	1.62	1.32-1.78	y	102	50.0 - 145
13C-PCB-118	M+2/M+4	1.63	1.32-1.78	y	98.9	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	102	50.0 - 145
13C-PCB-126	M+2/M+4	1.58	1.32-1.78	y	89.5	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	92.6	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	91.3	50.0 - 145
13C-PCB-157	M+2/M+4	1.30	1.05-1.43	y	94.8	50.0 - 145
13C-PCB-167	M+2/M+4	1.25	1.05-1.43	y	94.8	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	86.1	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	98.5	50.0 - 145
13C-PCB-189	M+2/M+4	1.09	0.89-1.21	y	87.0	50.0 - 145
13C-PCB-202	M+2/M+4	0.93	0.76-1.02	y	97.1	50.0 - 145
13C-PCB-205	M+2/M+4	0.92	0.76-1.02	y	93.1	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	98.9	50.0 - 145
13C-PCB-208	M+2/M+4	0.81	0.65-0.89	y	111	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	87.6	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.07	0.88-1.20	y	102	65.0 - 135
13C-PCB-111	M+2/M+4	1.60	1.32-1.78	y	100	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	102	75.0 - 125

Analyst: [illegible] Date: 2/1/17

FAL ID: ST013117Z2 Filename: 31JAN17Z Sam:13 Acquired: 1-FEB-17 00:52:16 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R161111B ConCal: ST013117Z1 EndCal: ST013117Z2
Results: GC Column: DB1MS Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	5.04e+07	3.13 y	14:33	1.05	52.6		2.50	-	-	*	-
13C-PCB-1	9.12e+07	3.24 y	14:32	1.14	89.4		2.50				89.4
PCB-3	4.88e+07	3.12 y	16:59	1.05	53.0		2.50	-	-	*	-
13C-PCB-3	8.79e+07	3.29 y	16:58	1.11	88.5		2.50				88.5
PCB-4	3.33e+07	1.54 y	18:12	1.14	48.5		2.50	-	-	*	-
13C-PCB-4	6.04e+07	1.56 y	18:11	0.68	99.6		2.50				99.6
PCB-15	4.94e+07	1.58 y	23:46	1.09	50.9		2.50	-	-	*	-
13C-PCB-15	8.91e+07	1.60 y	23:45	1.02	97.0		2.50				97.0
PCB-19	2.85e+07	1.04 y	22:06	1.16	48.4		2.50	-	-	*	-
13C-PCB-19	5.07e+07	1.08 y	22:04	0.61	92.0		2.50				92.0
13C-PCB-9	8.97e+07	1.58 y	19:52	-	65.7		2.50				
PCB-37	4.06e+07	1.07 y	30:26	1.14	51.1		2.50	-	-	*	-
13C-PCB-37	6.95e+07	1.11 y	30:25	1.38	95.9		2.50				95.9
PCB-54	3.56e+07	0.78 y	25:38	1.05	51.1		2.50	-	-	*	-
13C-PCB-54	6.63e+07	0.80 y	25:37	1.25	100		2.50				100
PCB-104	2.56e+07	1.60 y	30:05	1.14	48.0		2.50	-	-	*	-
13C-PCB-104	4.68e+07	1.59 y	30:04	0.91	97.6		2.50				97.6
13C-PCB-28	7.97e+07	1.07 y	26:43	1.48	102		2.50				102
13C-PCB-52	5.27e+07	0.78 y	28:58	-	63.2		2.50				
PCB-81	3.30e+07	0.77 y	36:12	1.14	51.2		2.50	-	-	*	-
13C-PCB-81	5.62e+07	0.81 y	36:11	1.27	92.0		2.50				92.0
PCB-77	3.15e+07	0.77 y	36:47	1.10	50.8		2.50	-	-	*	-
13C-PCB-77	5.63e+07	0.83 y	36:45	1.27	92.1		2.50				92.1
PCB-155	2.69e+07	1.30 y	34:15	1.11	50.1		2.50	-	-	*	-
13C-PCB-155	4.84e+07	1.29 y	34:14	1.09	92.6		2.50				92.6
13C-PCB-111	6.05e+07	1.60 y	36:20	1.25	100		2.50				100
13C-PCB-101	4.81e+07	1.61 y	34:40	-	65.9		2.50				
PCB-123	2.94e+07	1.57 y	38:23	1.05	50.1		2.50	-	-	*	-
13C-PCB-123	5.58e+07	1.60 y	38:23	1.20	102		2.50				102
PCB-118	3.39e+07	1.55 y	38:34	1.07	54.2		2.50	-	-	*	-
13C-PCB-118	5.88e+07	1.63 y	38:33	1.31	98.9		2.50				98.9
PCB-114	3.09e+07	1.54 y	39:11	1.08	49.9		2.50	-	-	*	-
13C-PCB-114	5.70e+07	1.62 y	39:11	1.23	102		2.50				102
PCB-105	3.00e+07	1.55 y	40:00	1.08	49.9		2.50	-	-	*	-
13C-PCB-105	5.56e+07	1.61 y	40:00	1.24	99.0		2.50				99.0
PCB-126	2.54e+07	1.54 y	42:10	1.07	50.0		2.50	-	-	*	-
13C-PCB-126	4.76e+07	1.58 y	42:08	1.17	89.5		2.50				89.5
PCB-167	2.78e+07	1.28 y	43:31	0.98	53.3		2.50	-	-	*	-
13C-PCB-167	5.33e+07	1.25 y	43:29	1.24	94.8		2.50				94.8
PCB-156	2.56e+07	1.27 y	44:45	1.01	51.8		2.50	-	-	*	-
13C-PCB-156	4.89e+07	1.28 y	44:43	1.18	91.3		2.50				91.3
PCB-157	2.67e+07	1.31 y	44:60	0.96	52.7		2.50	-	-	*	-
13C-PCB-157	5.26e+07	1.30 y	44:58	1.22	94.8		2.50				94.8
PCB-169	2.21e+07	1.27 y	46:53	1.00	51.3		2.50	-	-	*	-
13C-PCB-169	4.32e+07	1.25 y	46:52	1.11	86.1		2.50				86.1
PCB-188	3.01e+07	1.07 y	39:45	1.09	50.4		2.50	-	-	*	-
13C-PCB-188	5.46e+07	1.08 y	39:44	1.22	98.5		2.50				98.5
PCB-189	2.20e+07	1.06 y	48:32	1.14	50.4		2.50	-	-	*	-
13C-PCB-189	3.83e+07	1.09 y	48:32	0.97	87.0		2.50				87.0
PCB-202	2.03e+07	0.89 y	44:53	1.05	50.0		2.50	-	-	*	-
13C-PCB-202	3.86e+07	0.93 y	44:51	0.88	97.1		2.50				97.1
13C-PCB-178	3.57e+07	1.08 y	42:23	0.77	102		2.50				102
13C-PCB-138	4.53e+07	1.26 y	41:37	-	65.0		2.50				

FAL ID: ST013117Z2 Filename: 31JAN17Z Sam:13 Acquired: 1-FEB-17 00:52:16 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R161111B ConCal: ST013117Z1 EndCal: ST013117Z2
Results: GC Column: DB1MS Amount: 1.000

PCB-205	2.61e+07	0.90	y	50:15	1.02	55.6	2.50	-	-	*	-
13C-PCB-205	4.63e+07	0.92	y	50:13	1.38	93.1	2.50				93.1
PCB-208	2.45e+07	1.34	y	49:16	0.93	50.2	2.50	-	-	*	-
13C-PCB-208	5.25e+07	0.81	y	49:16	1.31	111	2.50				111
PCB-206	1.73e+07	1.37	y	51:29	0.94	51.2	2.50	-	-	*	-
13C-PCB-206	3.61e+07	0.78	y	51:28	1.01	98.9	2.50				98.9
PCB-209	2.42e+07	1.18	y	52:45	1.10	52.0	2.50	-	-	*	-
13C-PCB-209	4.22e+07	1.19	y	52:44	1.34	87.6	2.50				87.6
13C-PCB-194	3.60e+07	0.93	y	49:58	-	71.5	2.50				

Analyst: [illegible] Date: 2/1/17

FORM 7A-HR

RELATIVE RESPONSE/RELATIVE RESPONSE FACTOR CONTINUING CALIBRATION SUMMARY

Lab Name: Frontier Analytical Lab Contract: EP-W-16-006

Lab Code: FTR Case No.: BS MA No.: SDG NO.: NA

Inst. ID: FAL4 GC Column: DB1MS ID: 0.25 (mm) EPA Sample No.:1668 CS3 R161111B

Init. Calib. Date: 08/11/2016 Date Analyzed: 1-FEB-17

Init. Calib. Time: 12:25:59 Time Anayzed: 00:52:16

Analytical Method: CBC

CL No.	Analyte Name	RR/RRF	MEAN RR/RRF	%D	IAR	IAR QC Limits
1	PCB-1	1.10	1.05	5.22	3.13	2.66-3.60
1	PCB-3	1.11	1.05	6.06	3.12	2.66-3.60
2	PCB-4	1.10	1.14	-3.01	1.54	1.33-1.79
2	PCB-15	1.11	1.09	1.82	1.58	1.33-1.79
3	PCB-19	1.12	1.16	-3.18	1.04	0.88-1.20
3	PCB-37	1.17	1.14	2.26	1.07	0.88-1.20
4	PCB-54	1.07	1.05	2.19	0.78	0.65-0.89
4	PCB-77	1.12	1.10	1.60	0.77	0.65-0.89
4	PCB-81	1.17	1.14	2.50	0.77	0.65-0.89
5	PCB-104	1.10	1.14	-4.09	1.60	1.32-1.78
5	PCB-105	1.08	1.08	-0.157	1.55	1.32-1.78
5	PCB-114	1.08	1.08	-0.127	1.54	1.32-1.78
5	PCB-118	1.15	1.07	8.31	1.55	1.32-1.78
5	PCB-123	1.05	1.05	0.150	1.57	1.32-1.78
5	PCB-126	1.07	1.07	-0.0478	1.54	1.32-1.78
6	PCB-155	1.11	1.11	0.222	1.30	1.05-1.43
6	PCB-156	1.05	1.01	3.68	1.27	1.05-1.43
6	PCB-157	1.02	0.96	5.48	1.31	1.05-1.43
6	PCB-167	1.04	0.98	6.52	1.28	1.05-1.43
6	PCB-169	1.02	1.00	2.61	1.27	1.05-1.43
7	PCB-188	1.10	1.09	0.746	1.07	0.89-1.21
7	PCB-189	1.15	1.14	0.887	1.06	0.89-1.21
8	PCB-202	1.05	1.05	-0.0511	0.89	0.76-1.02
8	PCB-205	1.13	1.02	11.1	0.90	0.76-1.02
9	PCB-206	0.96	0.94	2.48	1.37	1.16-1.53
9	PCB-208	0.93	0.93	0.333	1.34	1.16-1.53
10	PCB-209	1.15	1.10	3.97	1.18	0.99-1.33

Analyst: [signature] Date: 2/3/17

FORM 7A-HR

RELATIVE RESPONSE/RELATIVE RESPONSE FACTOR CONTINUING CALIBRATION SUMMARY

Lab Name: Frontier Analytical Lab Contract: EP-W-16-006

Lab Code: FTR Case No.: BS MA No.: SDG NO.: NA

Inst. ID: FAL4 GC Column: DB1MS ID: 0.25 (mm) EPA Sample No.:1668 CS3 R161111B

Init. Calib. Date: 08/11/2016 Date Analyzed: 1-FEB-17

Init. Calib. Time: 12:25:59 Time Anayzed: 00:52:16

Analytical Method: CBC

CL No.	Analyte Name	RR/RRF	MEAN RR/RRF	%D	IAR	IAR QC Limits
1	13C-PCB-1	1.02	1.14	-10.6	3.24	2.66-3.60
1	13C-PCB-3	0.98	1.11	-11.5	3.29	2.66-3.60
2	13C-PCB-4	0.67	0.68	-0.350	1.56	1.33-1.79
2	13C-PCB-15	0.99	1.02	-3.01	1.60	1.33-1.79
3	13C-PCB-19	0.57	0.61	-8.04	1.08	0.88-1.20
3	13C-PCB-37	1.32	1.38	-4.10	1.11	0.88-1.20
4	13C-PCB-54	1.26	1.25	0.495	0.80	0.65-0.89
4	13C-PCB-77	1.17	1.27	-7.92	0.83	0.65-0.89
4	13C-PCB-81	1.17	1.27	-7.99	0.81	0.65-0.89
5	13C-PCB-104	0.89	0.91	-2.45	1.59	1.32-1.78
5	13C-PCB-105	1.23	1.24	-1.02	1.61	1.32-1.78
5	13C-PCB-114	1.26	1.23	1.88	1.62	1.32-1.78
5	13C-PCB-118	1.30	1.31	-1.12	1.63	1.32-1.78
5	13C-PCB-123	1.23	1.20	2.41	1.60	1.32-1.78
5	13C-PCB-126	1.05	1.17	-10.5	1.58	1.32-1.78
6	13C-PCB-155	1.01	1.09	-7.42	1.29	1.05-1.43
6	13C-PCB-156	1.08	1.18	-8.65	1.28	1.05-1.43
6	13C-PCB-157	1.16	1.22	-5.19	1.30	1.05-1.43
6	13C-PCB-167	1.18	1.24	-5.15	1.25	1.05-1.43
6	13C-PCB-169	0.95	1.11	-13.9	1.25	1.05-1.43
7	13C-PCB-188	1.21	1.22	-1.50	1.08	0.89-1.21
7	13C-PCB-189	0.84	0.97	-13.0	1.09	0.89-1.21
8	13C-PCB-202	0.85	0.88	-2.89	0.93	0.76-1.02
8	13C-PCB-205	1.28	1.38	-6.95	0.92	0.76-1.02
9	13C-PCB-206	1.00	1.01	-1.10	0.78	0.65-0.89
9	13C-PCB-208	1.46	1.31	11.0	0.81	0.65-0.89
10	13C-PCB-209	1.17	1.34	-12.4	1.19	0.99-1.33

Analyst: _____ Date: 2/3/17

FORM 7B-HR

RELATIVE RELATIVE RETENTION TIME CONTINUING CALIBRATION SUMMARY

Lab Name: Frontier Analytical Lab Contract: EP-W-16-006

Lab Code: FTR Case No.: BS MA No.: SDG NO.: NA

Inst. ID: FAL4 GC Column: DB1MS ID: 0.25 (mm) EPA Sample No.:1668 CS3 R161111B

Init. Calib. Date: 08/11/2016 Date Analyzed: 1-FEB-17

Init. Calib. Time: 12:25:59 Time Anayzed: 00:52:16

CL No.	Analyte Name	MEAN RRT	RRT	RRT QC Limits
1	PCB-1	1.0012	1.0012	0.9970 -1.0030
1	PCB-3	1.0010	1.0010	0.9970 -1.0030
2	PCB-4	1.0014	1.0008	0.9970 -1.0030
2	PCB-15	1.0006	1.0006	0.9970 -1.0030
3	PCB-19	1.0014	1.0013	0.9970 -1.0030
3	PCB-37	1.0008	1.0007	0.9970 -1.0030
4	PCB-54	1.0013	1.0008	0.9970 -1.0030
4	PCB-77	1.0006	1.0006	0.9970 -1.0030
4	PCB-81	1.0006	1.0006	0.9970 -1.0030
5	PCB-104	1.0007	1.0007	0.9970 -1.0030
5	PCB-105	1.0005	1.0000	0.9970 -1.0030
5	PCB-114	1.0004	1.0000	0.9970 -1.0030
5	PCB-118	1.0005	1.0007	0.9970 -1.0030
5	PCB-123	1.0005	1.0000	0.9970 -1.0030
5	PCB-126	1.0005	1.0007	0.9970 -1.0030
6	PCB-155	1.0005	1.0006	0.9970 -1.0030
6	PCB-156	1.0007	1.0006	0.9970 -1.0030
6	PCB-157	1.0004	1.0006	0.9970 -1.0030
6	PCB-167	1.0004	1.0006	0.9970 -1.0030
6	PCB-169	1.0001	1.0006	0.9970 -1.0030
7	PCB-188	1.0003	1.0007	0.9970 -1.0030
7	PCB-189	1.0003	1.0000	0.9970 -1.0030
8	PCB-202	1.0007	1.0006	0.9970 -1.0030
8	PCB-205	1.0003	1.0004	0.9970 -1.0030
9	PCB-206	1.0002	1.0004	0.9970 -1.0030
9	PCB-208	1.0002	1.0000	0.9970 -1.0030
10	PCB-209	1.0003	1.0004	0.9970 -1.0030

Analyst: Date: 2/3/17

FORM 7B-HR

RELATIVE RELATIVE RETENTION TIME CONTINUING CALIBRATION SUMMARY

Lab Name: Frontier Analytical Lab Contract: EP-W-16-006

Lab Code: FTR Case No.: BS MA No.: SDG NO.: NA

Inst. ID: FAL4 GC Column: DB1MS ID: 0.25 (mm) EPA Sample No.:1668 CS3 R161111B

Init. Calib. Date: 08/11/2016 Date Analyzed: 1-FEB-17

Init. Calib. Time: 12:25:59 Time Anayzed: 00:52:16

CL No.	Analyte Name	MEAN RRT	RRT	RRT QC Limits	
1	13C-PCB-1	0.7297	0.7316	0.7200 -	0.7400
1	13C-PCB-3	0.8531	0.8536	0.8450 -	0.8600
2	13C-PCB-4	0.9147	0.9156	0.9100 -	0.9200
2	13C-PCB-15	1.1960	1.1954	1.1850 -	1.2100
3	13C-PCB-19	1.1110	1.1110	1.1000 -	1.1500
3	13C-PCB-37	1.0499	1.0502	1.0200 -	1.0800
4	13C-PCB-54	0.8840	0.8843	0.8750 -	0.8950
4	13C-PCB-77	1.0602	1.0602	1.0450 -	1.0750
4	13C-PCB-81	1.0438	1.0438	1.0350 -	1.0500
5	13C-PCB-104	1.0379	1.0378	1.0300 -	1.0500
5	13C-PCB-105	0.9608	0.9611	0.9550 -	0.9700
5	13C-PCB-114	0.9411	0.9413	0.9350 -	0.9550
5	13C-PCB-118	0.9262	0.9262	0.9150 -	0.9400
5	13C-PCB-123	0.9221	0.9222	0.9150 -	0.9400
5	13C-PCB-126	1.0124	1.0125	1.0000 -	1.0200
6	13C-PCB-155	0.9872	0.9872	0.9760 -	1.0430
6	13C-PCB-156	1.0743	1.0745	1.0600 -	1.0800
6	13C-PCB-157	1.0806	1.0804	1.0750 -	1.0900
6	13C-PCB-167	1.0448	1.0448	1.0350 -	1.0550
6	13C-PCB-169	1.1264	1.1259	1.1100 -	1.1300
7	13C-PCB-188	0.9550	0.9545	0.9450 -	0.9650
7	13C-PCB-189	1.1663	1.1661	1.1500 -	1.1750
8	13C-PCB-202	1.0782	1.0778	1.0700 -	1.0900
8	13C-PCB-205	1.0049	1.0051	1.0000 -	1.0100
9	13C-PCB-206	1.0288	1.0300	1.0200 -	1.0400
9	13C-PCB-208	0.9863	0.9859	0.9750 -	0.9950
10	13C-PCB-209	1.0524	1.0552	1.0450 -	1.0650
3	13C-PCB-28	0.9220	0.9222	0.9150 -	0.9300
5	13C-PCB-111	1.0476	1.0480	1.0400 -	1.0550
7	13C-PCB-178	1.0186	1.0185	1.0100 -	1.0250

Analyst: _____ Date: 8/3/17

Frontier Analytical Laboratory - Acquisition Log

Run Name:31JAN17Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

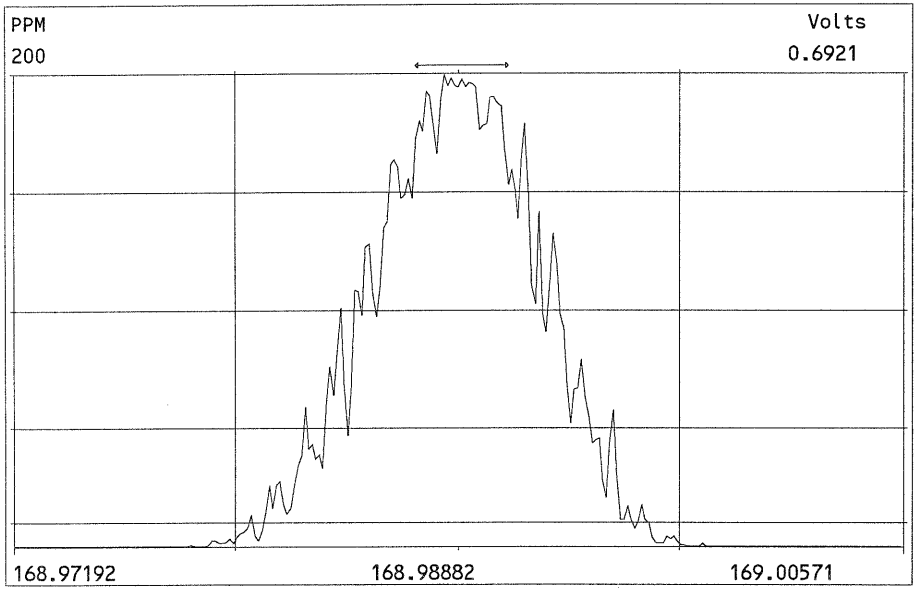
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
31JAN17Z	1	ST013117Z1	1668 CS3 R161111B	31-JAN-17 13:11:08	ST013117Z1	ST013117Z2	BS
31JAN17Z	2	SS013117Z1	Daily 209 161019A	31-JAN-17 14:09:52	ST013117Z1	ST013117Z2	BS
31JAN17Z	3	03991-001-0001-OPR	OPR	31-JAN-17 15:08:36	ST013117Z1	ST013117Z2	BS
31JAN17Z	4	03991-001-0001-MB	Method Blank	31-JAN-17 16:06:55	ST013117Z1	ST013117Z2	BS
31JAN17Z	5	10398-001-0001-SA	LDW-BA-SU-ENR+AC-CA-S010	31-JAN-17 17:05:39	ST013117Z1	ST013117Z2	BS
31JAN17Z	6	10398-002-0001-SA	LDW-BA-SU-ENR+AC-CB-S010	31-JAN-17 18:03:58	ST013117Z1	ST013117Z2	BS
31JAN17Z	7	10398-003-0001-SA	LDW-BA-SU-ENR+AC-CC-S010	31-JAN-17 19:02:18	ST013117Z1	ST013117Z2	BS
31JAN17Z	8	10398-004-0001-SA	LDW-BA-SU-ENR-CA-S010	31-JAN-17 20:00:38	ST013117Z1	ST013117Z2	BS
31JAN17Z	9	10398-005-0001-SA	LDW-BA-SU-ENR-CB-S010	31-JAN-17 20:58:58	ST013117Z1	ST013117Z2	BS
31JAN17Z	10	10398-006-0001-SA	LDW-BA-SU-ENR-CC-S010	31-JAN-17 21:57:17	ST013117Z1	ST013117Z2	BS
31JAN17Z	11	10398-007-0001-SA	LDW-BA-SU-S010-LCB-EXSITU	31-JAN-17 22:55:37	ST013117Z1	ST013117Z2	BS
31JAN17Z	12	SB013117Z1	Solvent Blank	31-JAN-17 23:53:57	ST013117Z1	ST013117Z2	BS
31JAN17Z	13	ST013117Z2	1668 CS3 R161111B	1-FEB-17 00:52:16	ST013117Z1	ST013117Z2	BS

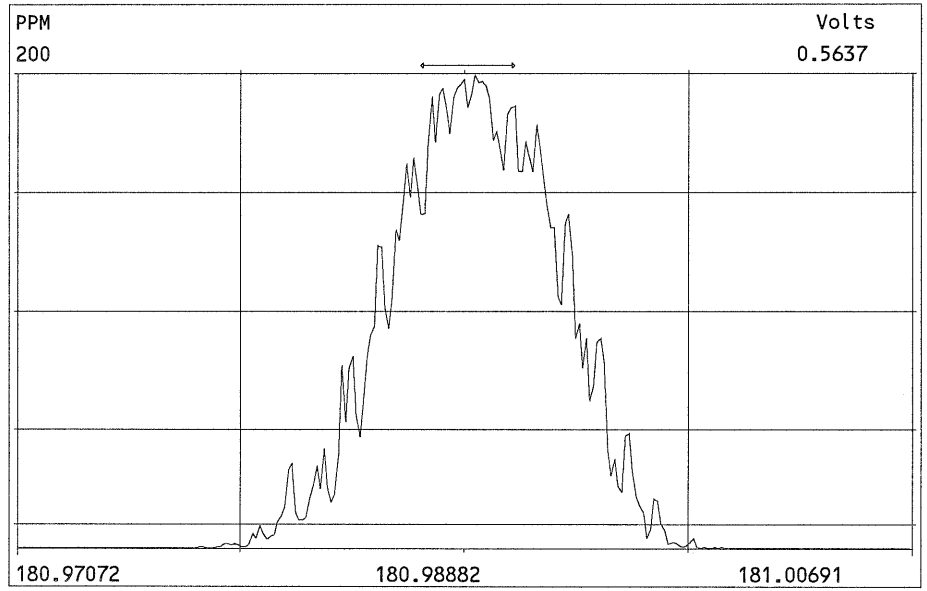
2/1/17

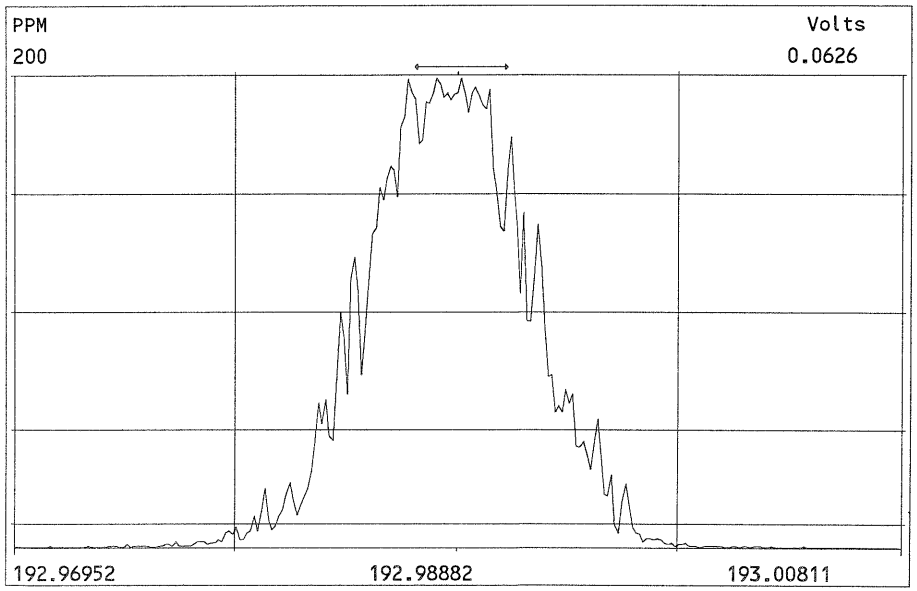
Data Backed Up:_____

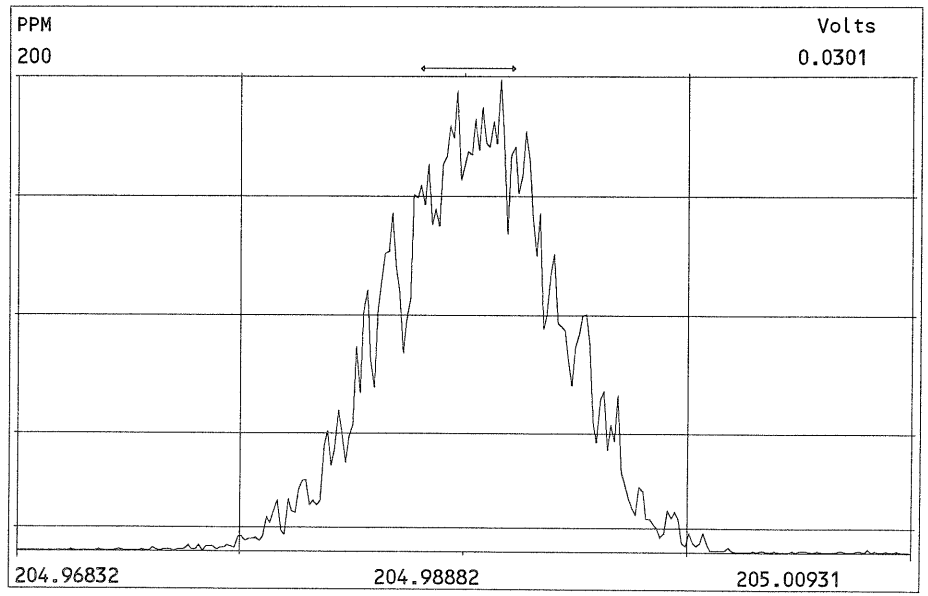
Date:_____

Peak Locate Examination:31-JAN-2017:13:08 File:31JAN17Z
Experiment:1668PCB Function:1 Reference:PFK

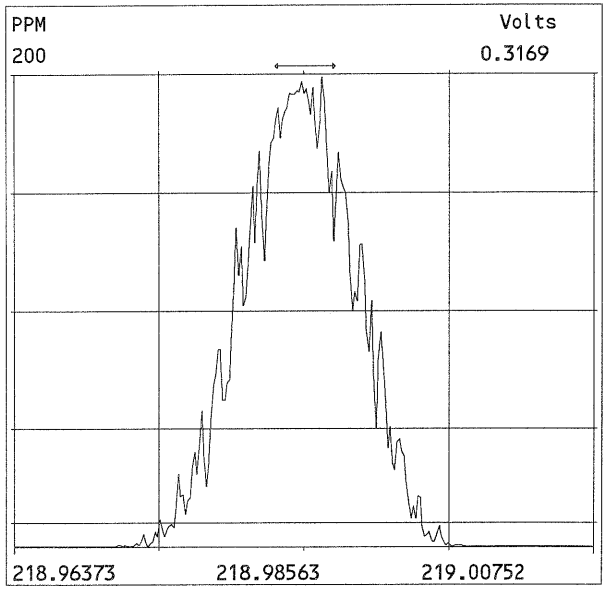


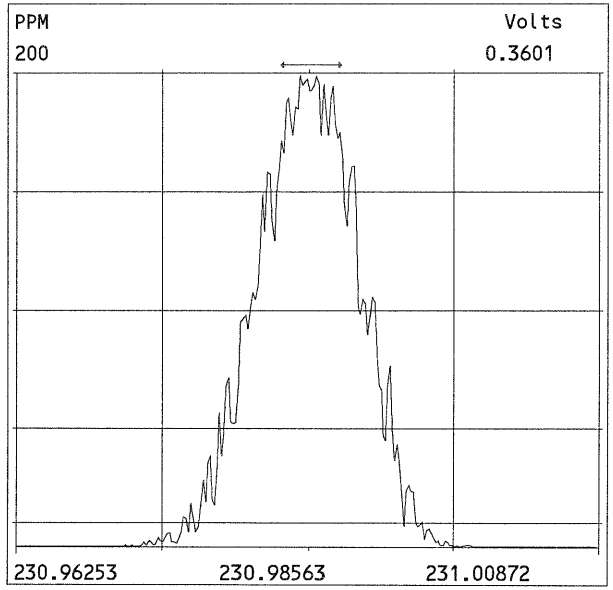


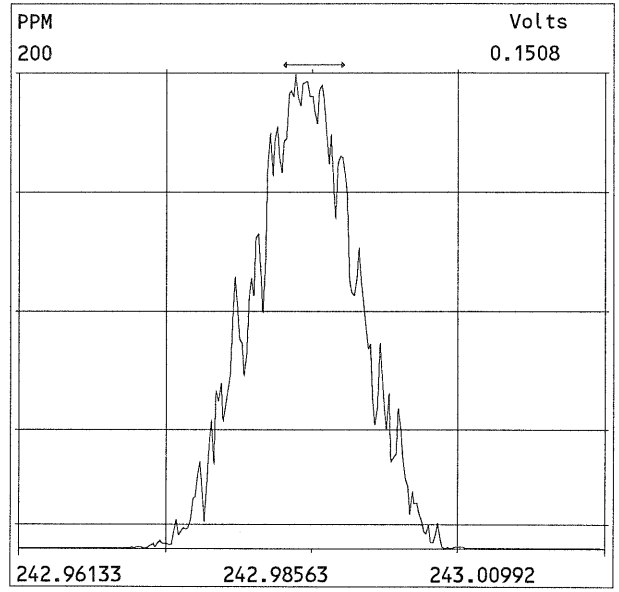


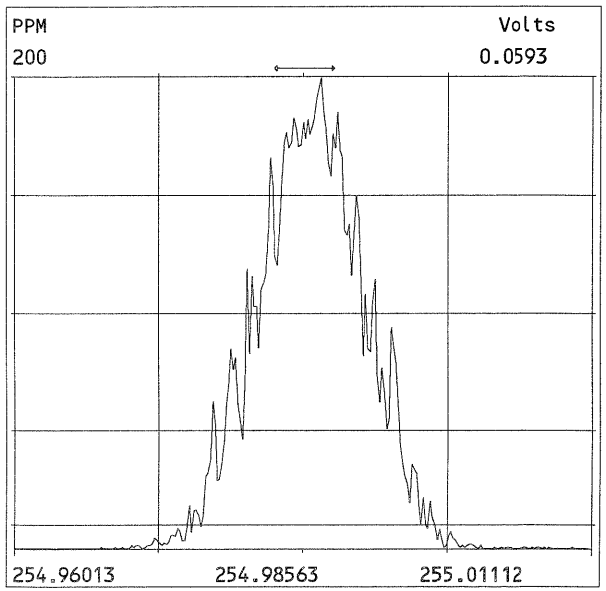


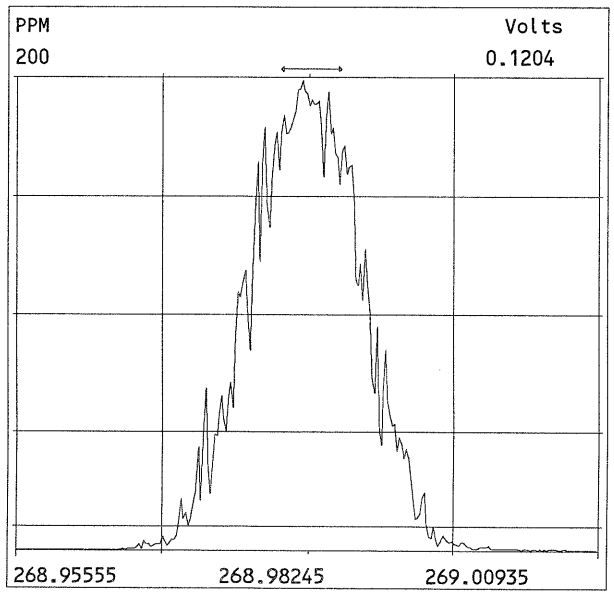
Peak Locate Examination:31-JAN-2017:13:08 File:31JAN17Z
Experiment:1668PCB Function:2 Reference:PFK

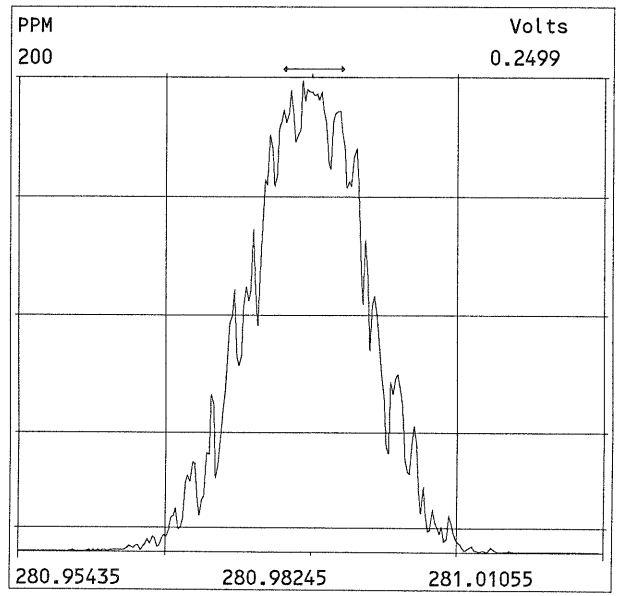




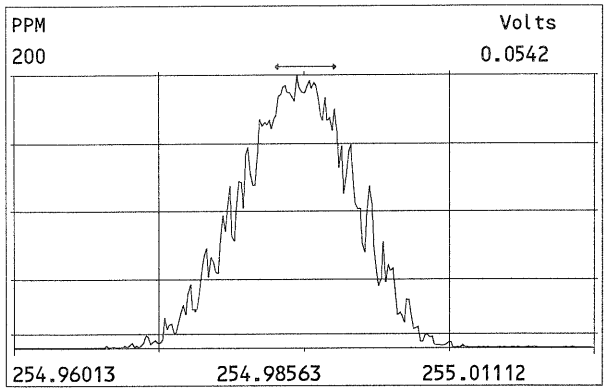


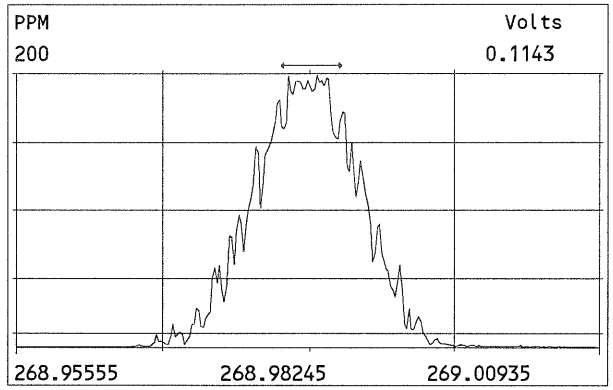


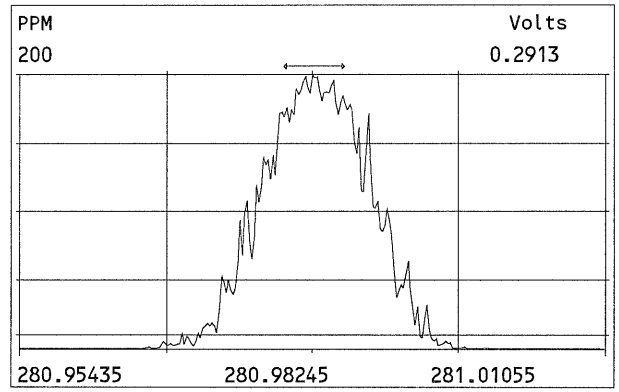


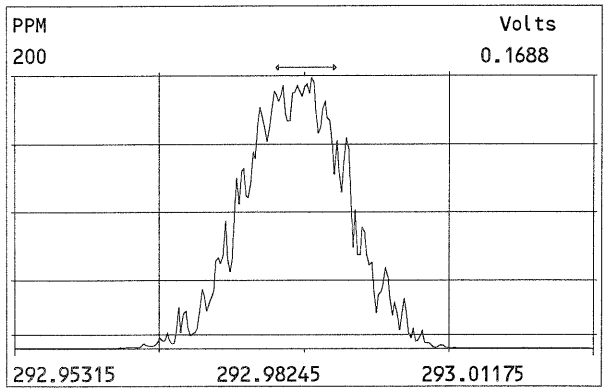


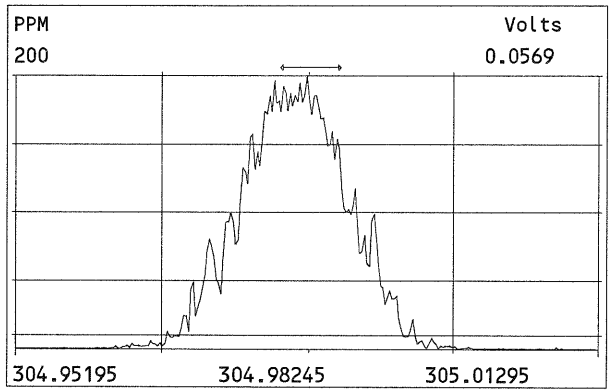
Peak Locate Examination:31-JAN-2017:13:09 File:31JAN17Z
Experiment:1668PCB Function:3 Reference:PFK

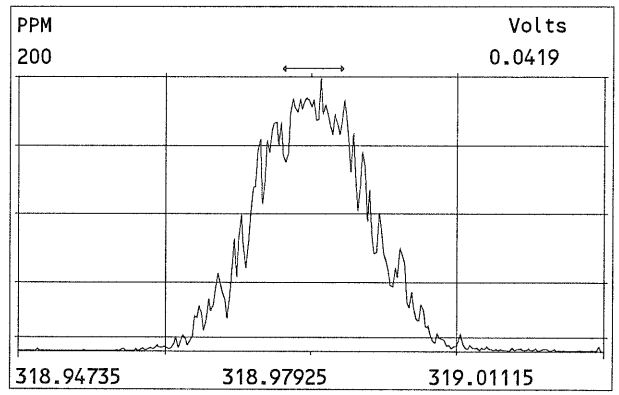


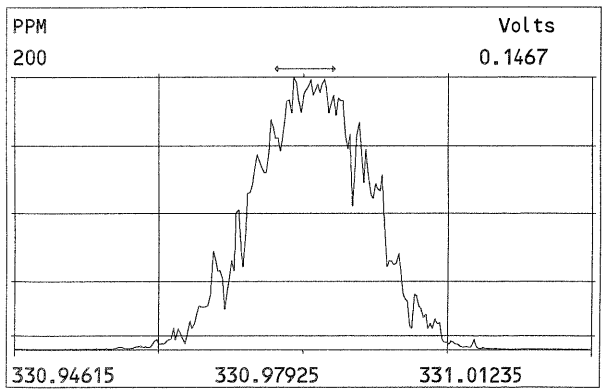


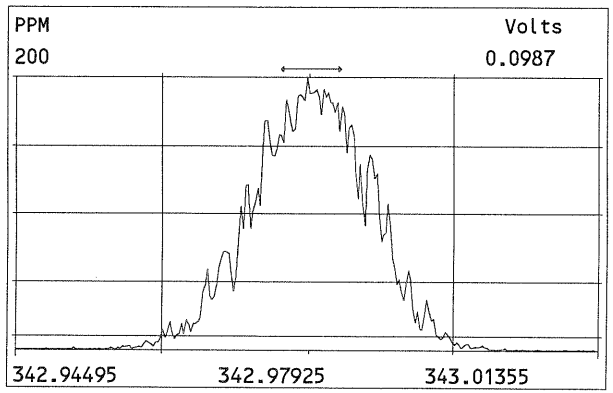




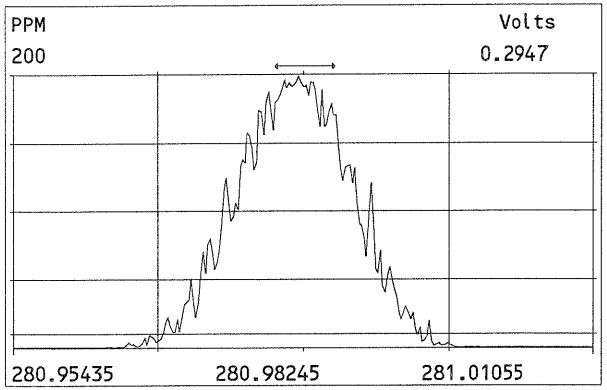


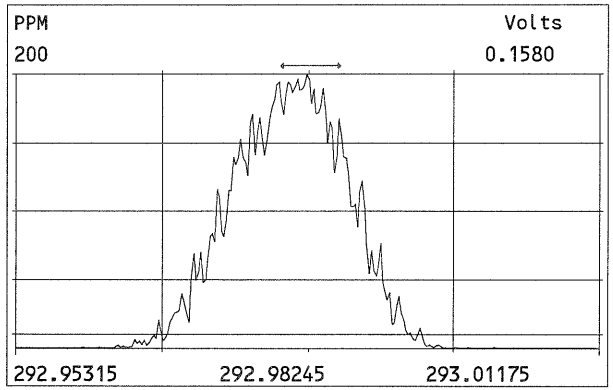


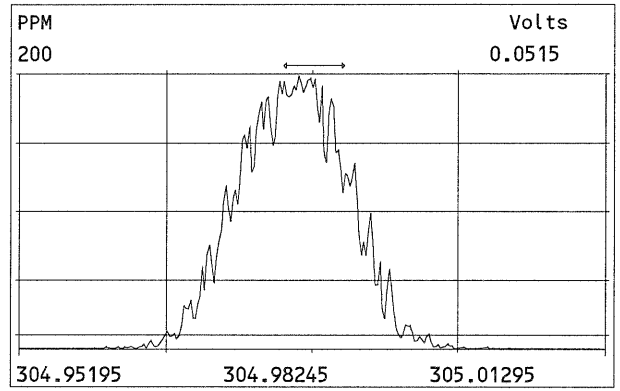


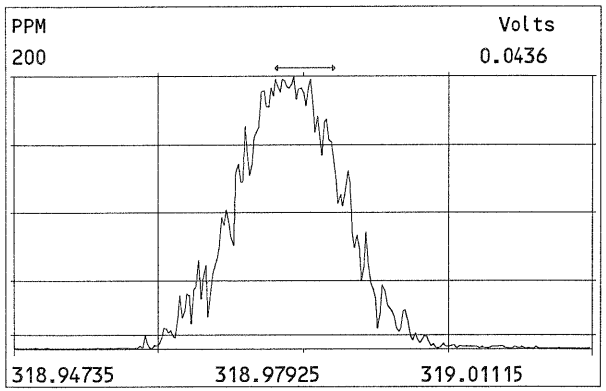


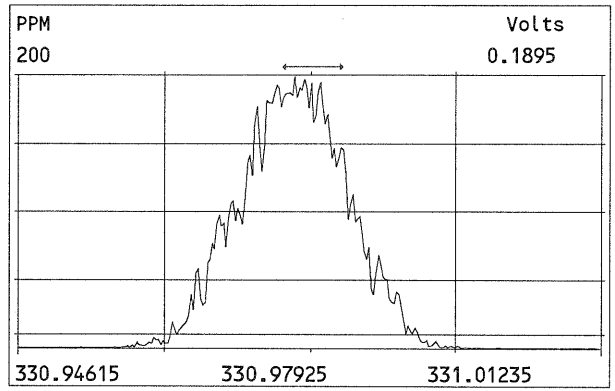
Peak Locate Examination:31-JAN-2017:13:09 File:31JAN17Z
Experiment:1668PCB Function:4 Reference:PFK

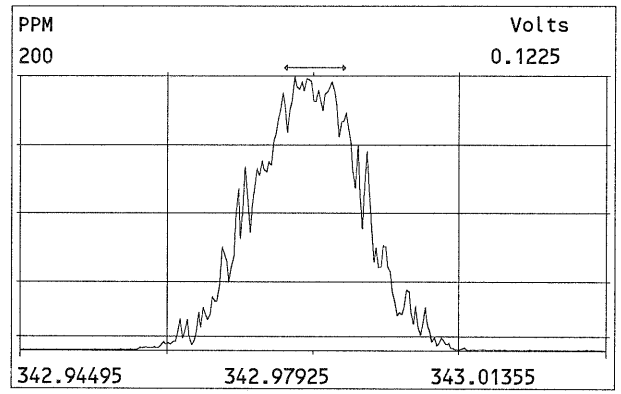


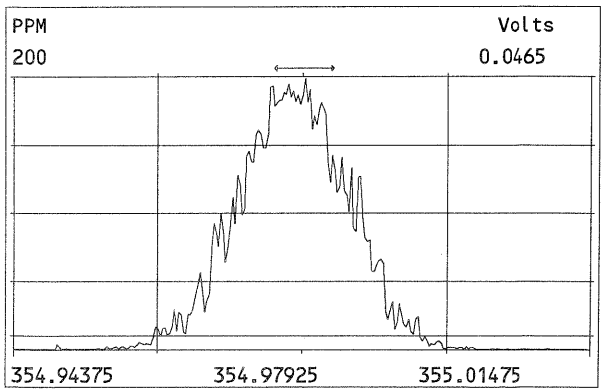


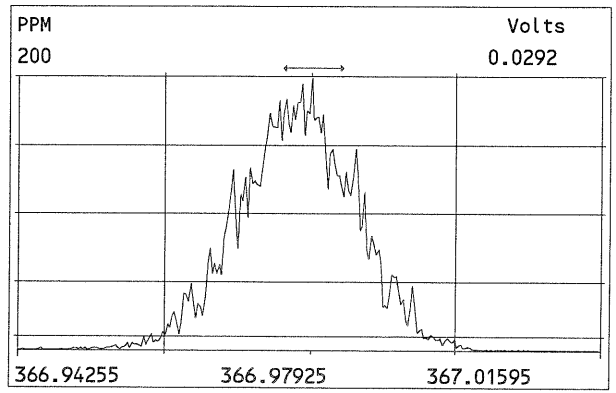


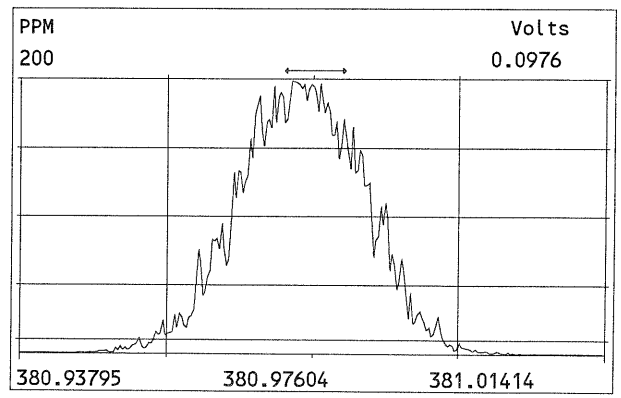




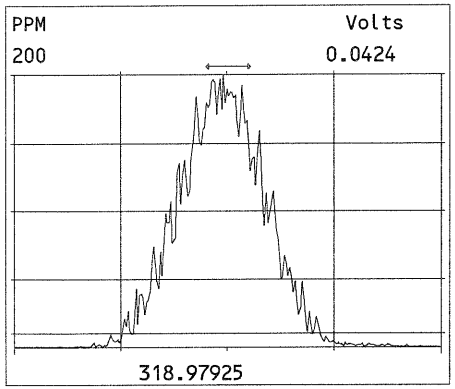


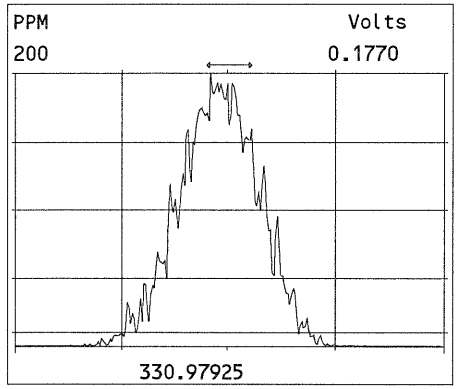


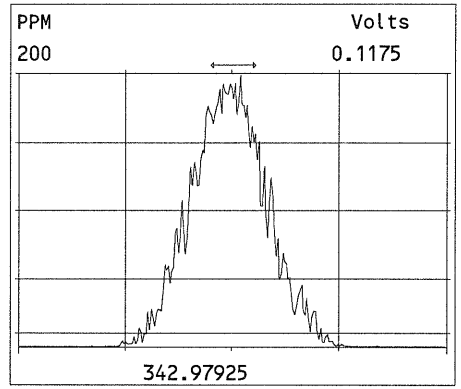


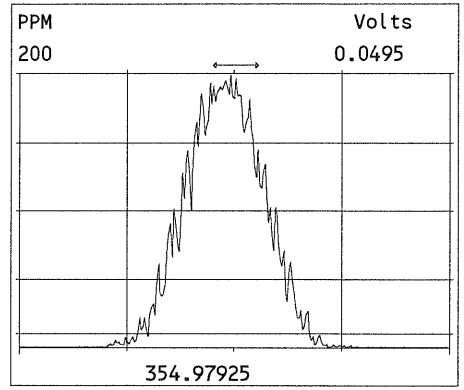


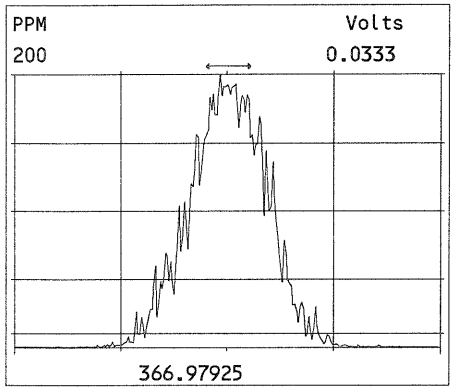
Peak Locate Examination:31-JAN-2017:13:10 File:31JAN17Z
Experiment:1668PCB Function:5 Reference:PFK

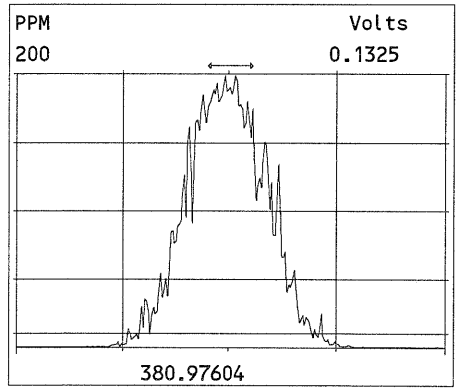


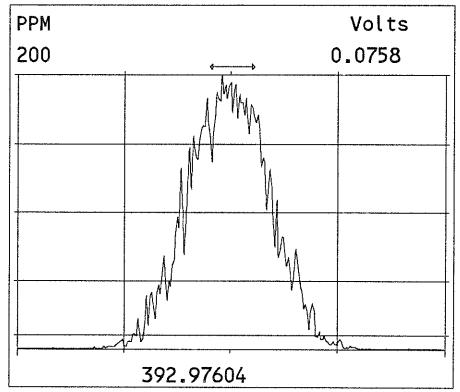


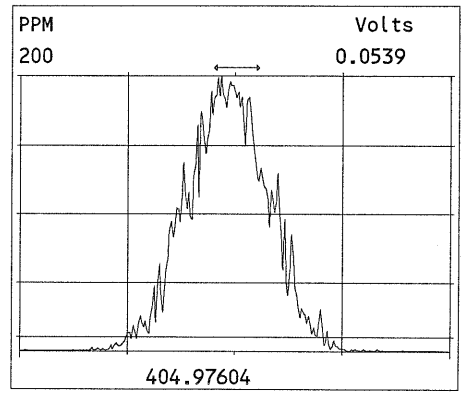


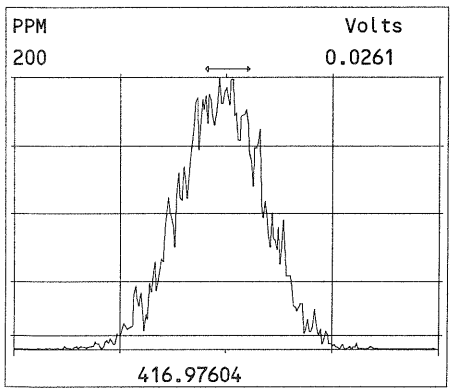


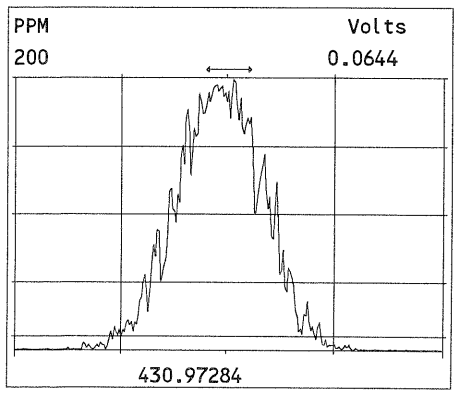


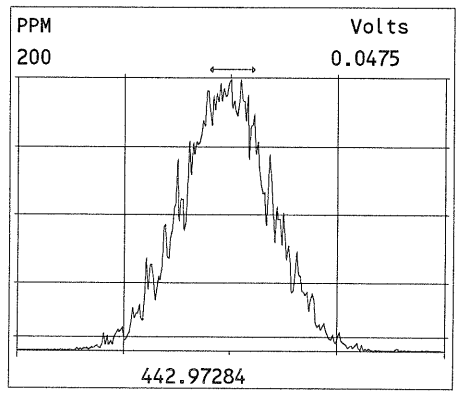




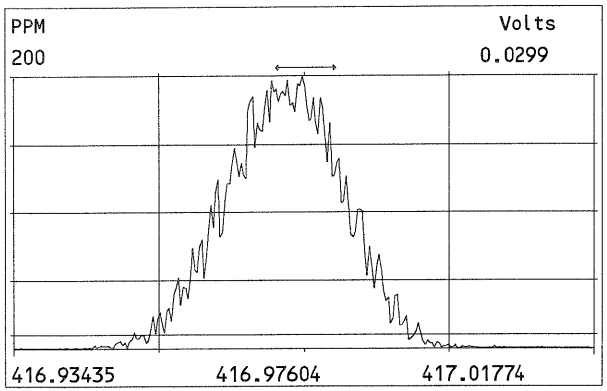


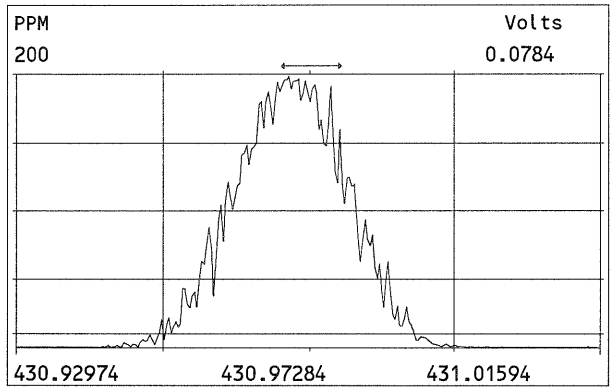


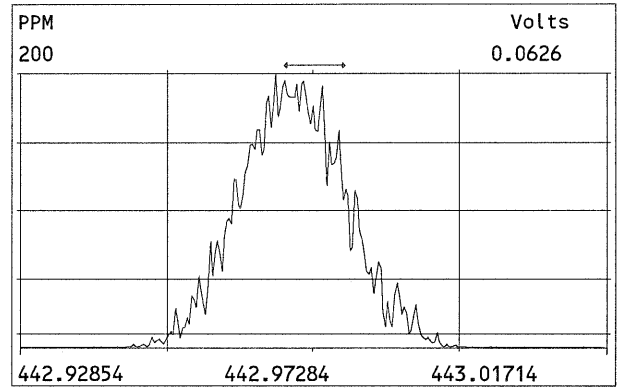


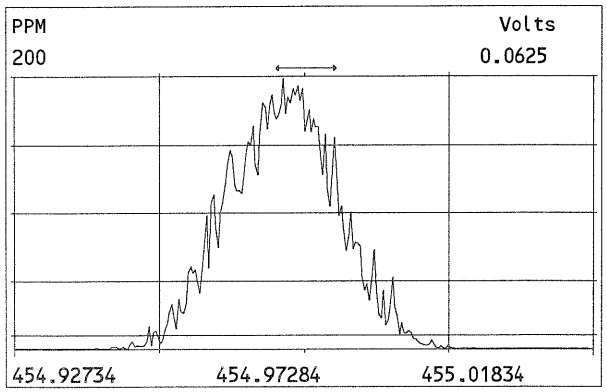


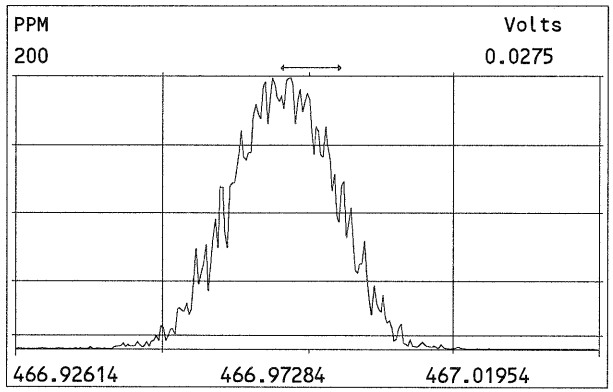
Peak Locate Examination:31-JAN-2017:13:10 File:31JAN17Z
Experiment:1668PCB Function:6 Reference:PFK

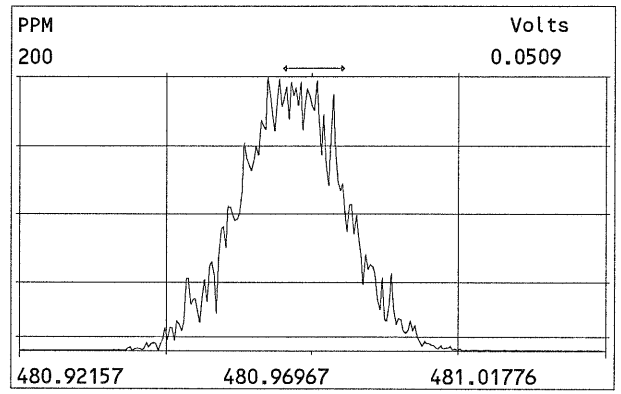


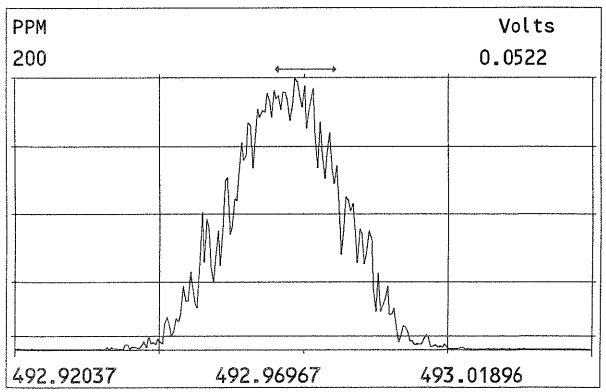


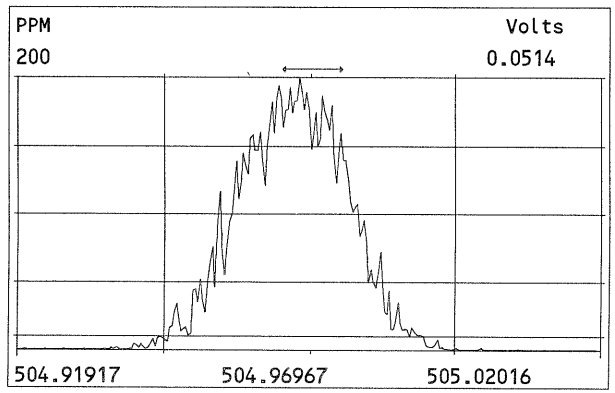


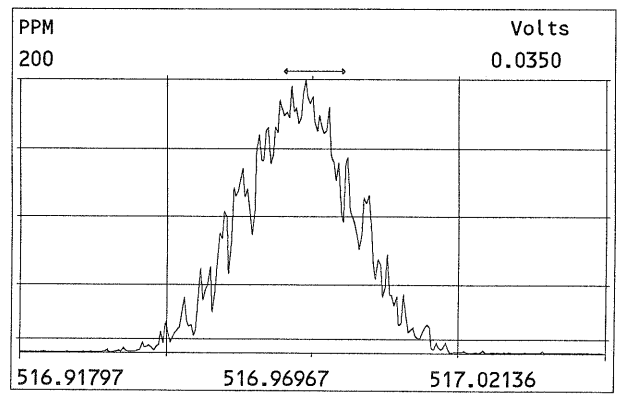












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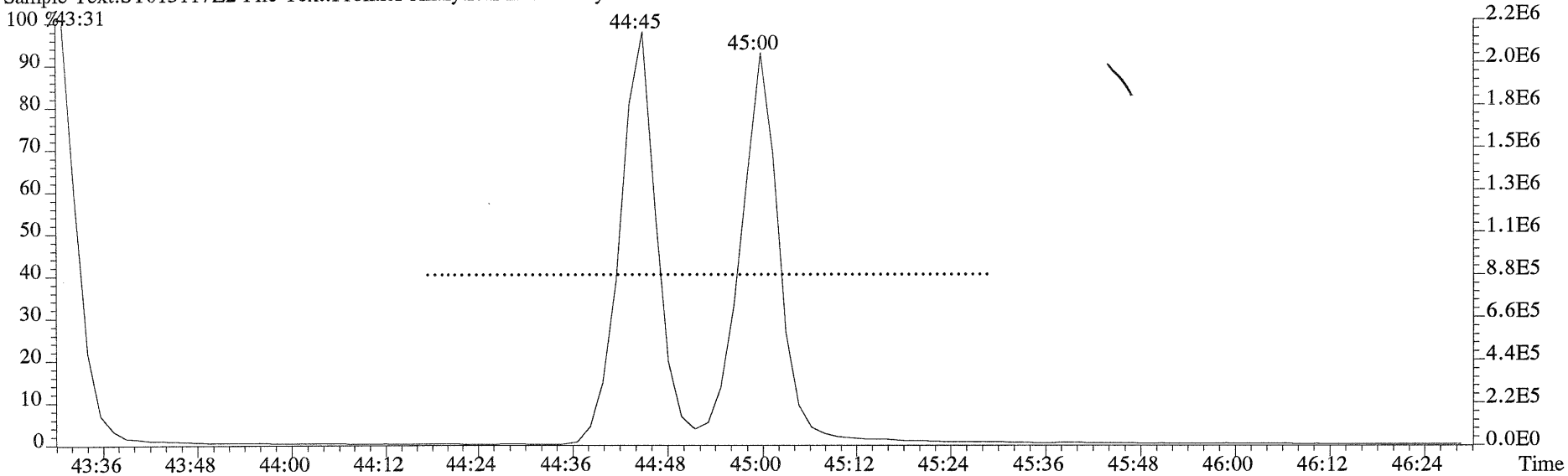
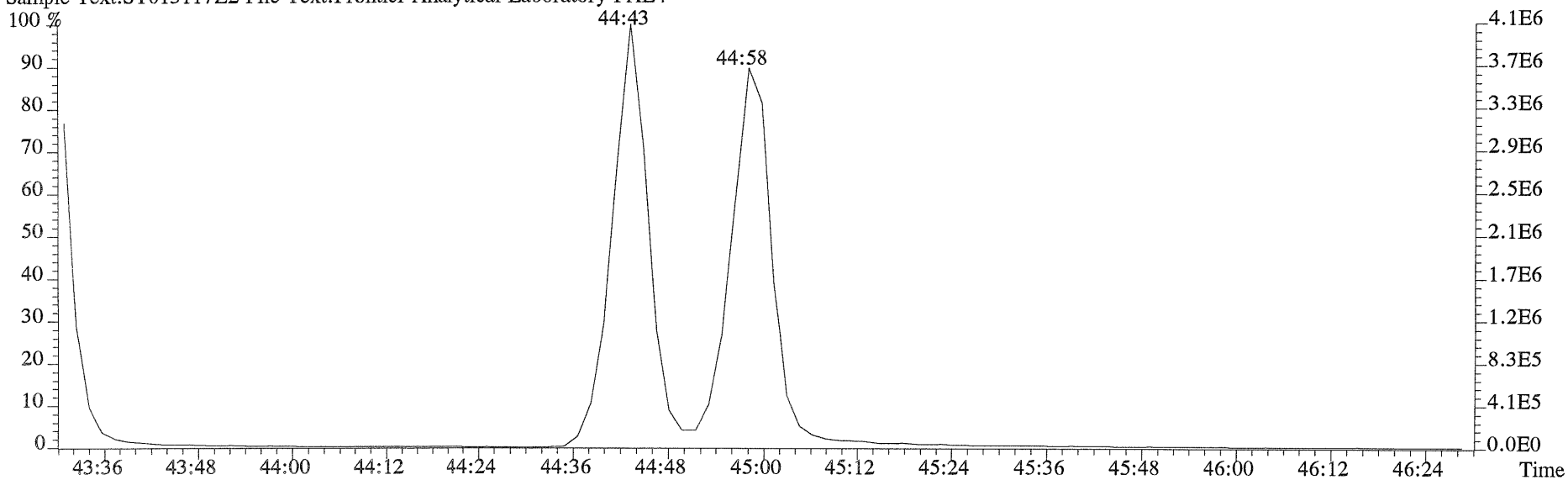
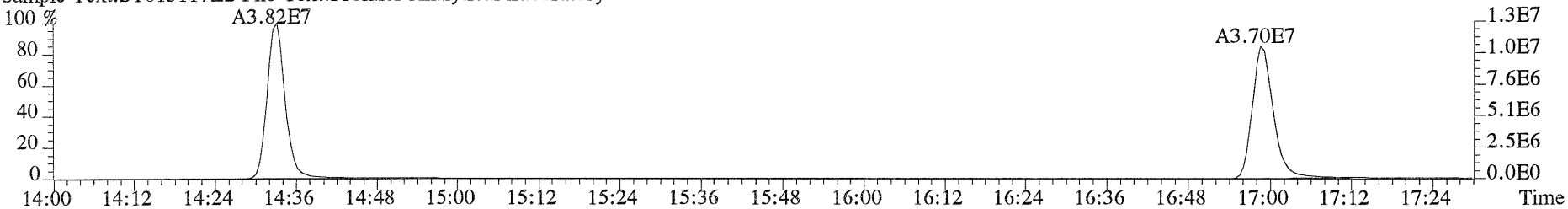
361.8385 S:13 F:5 Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory FAL4



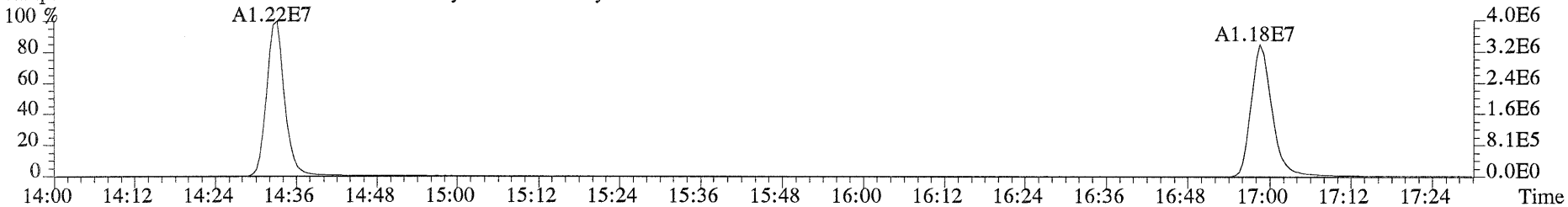
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:5 Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory FAL4



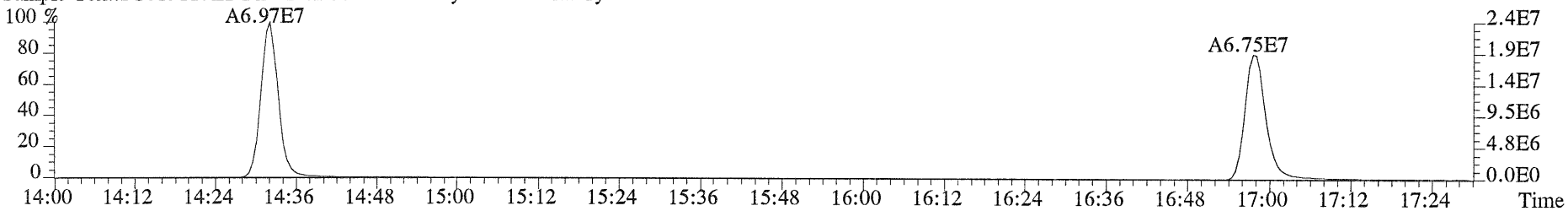
File:31JAN17Z #1-784 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



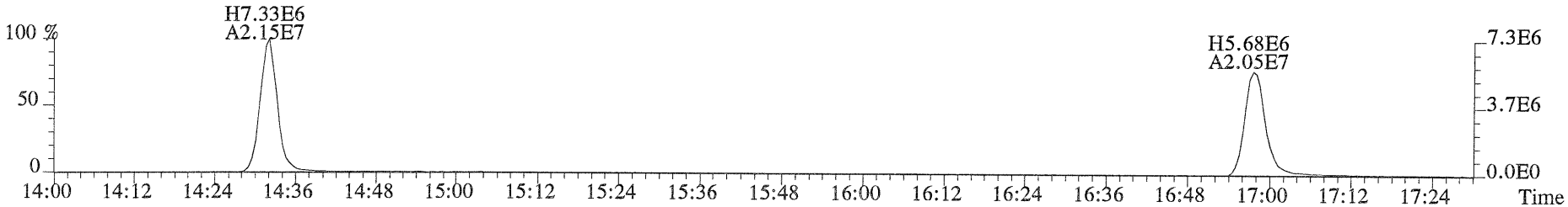
File:31JAN17Z #1-784 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



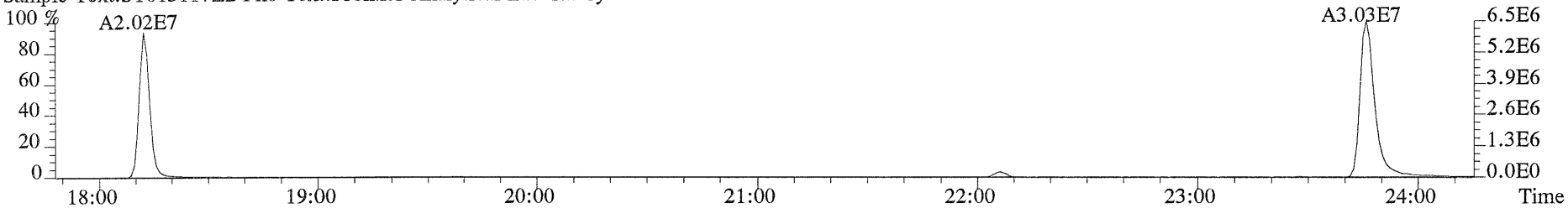
File:31JAN17Z #1-784 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



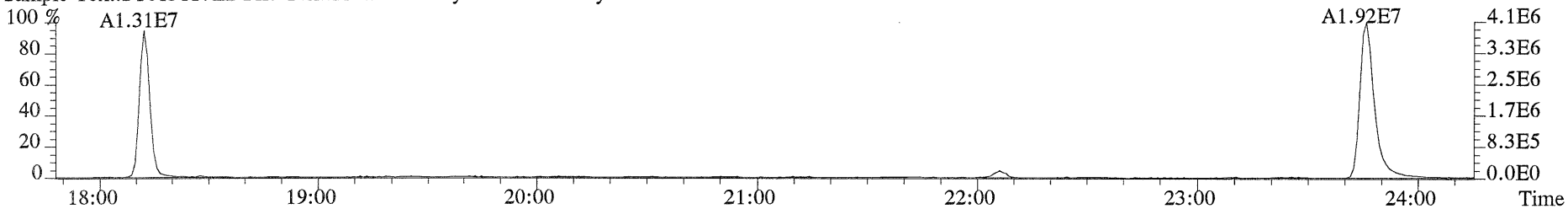
File:31JAN17Z #1-784 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:13 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



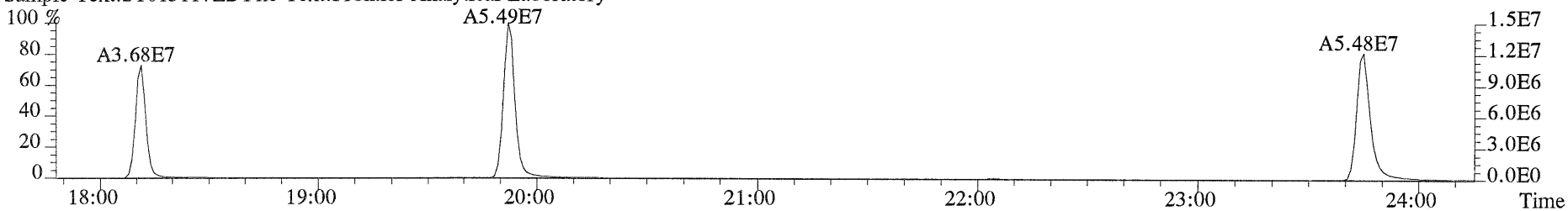
File:31JAN17Z #1-509 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



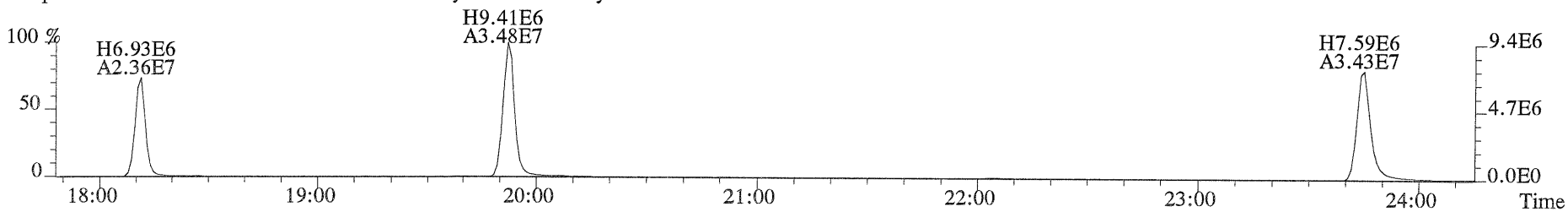
File:31JAN17Z #1-509 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



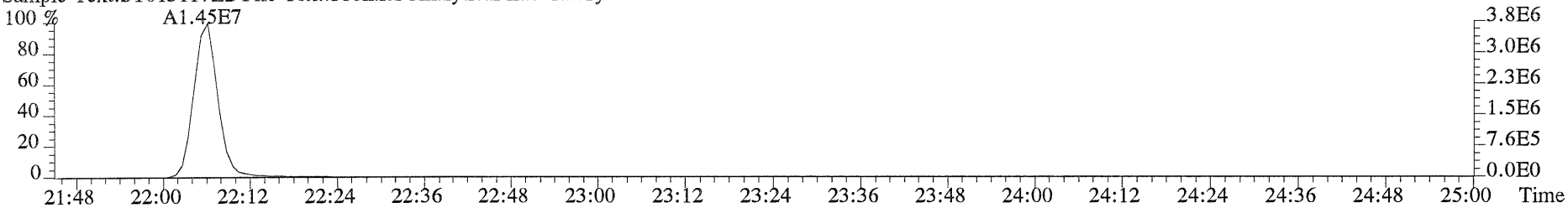
File:31JAN17Z #1-509 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



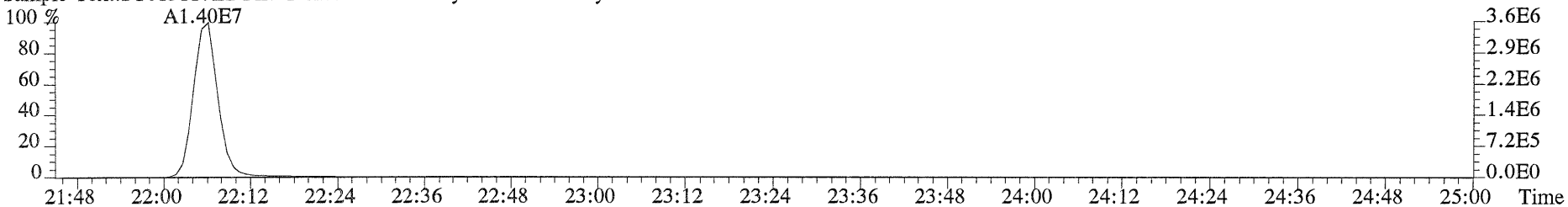
File:31JAN17Z #1-509 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



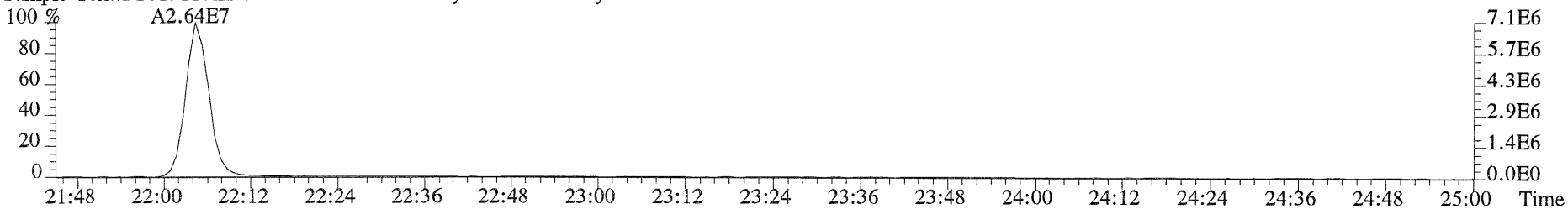
File:31JAN17Z #1-509 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



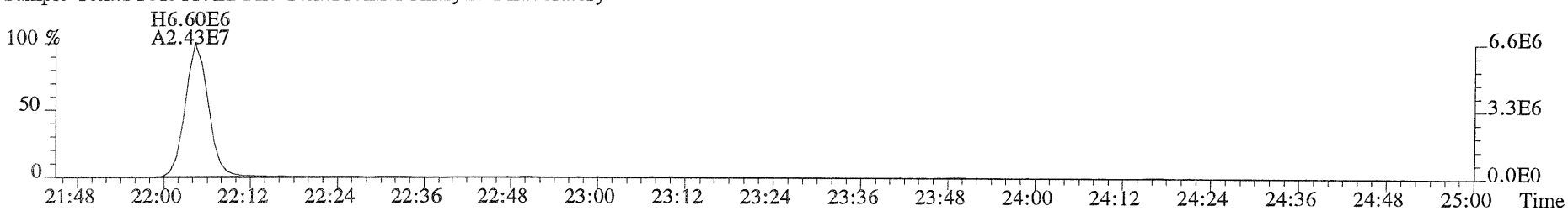
File:31JAN17Z #1-509 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



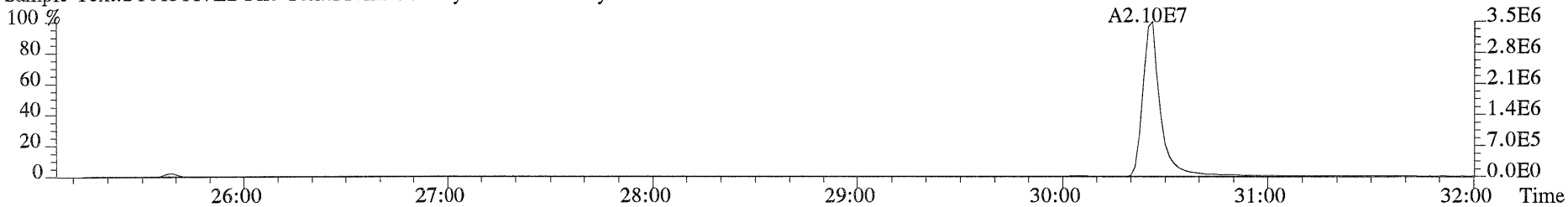
File:31JAN17Z #1-509 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



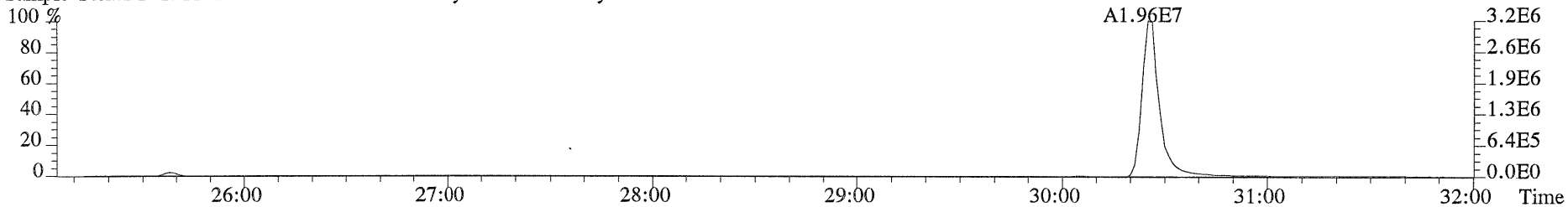
File:31JAN17Z #1-509 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



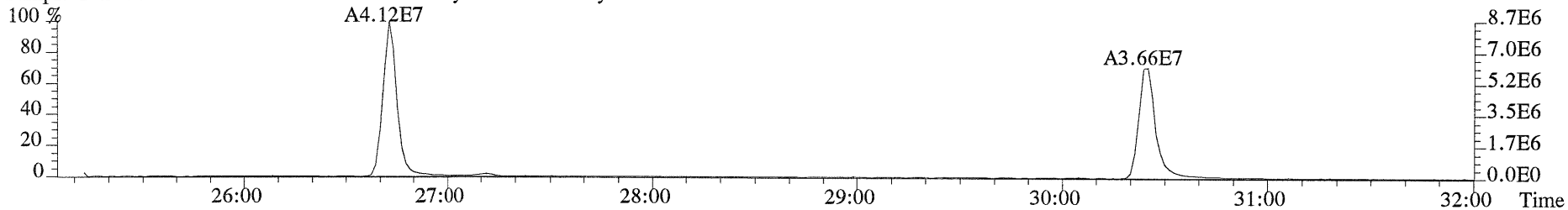
File:31JAN17Z #1-407 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



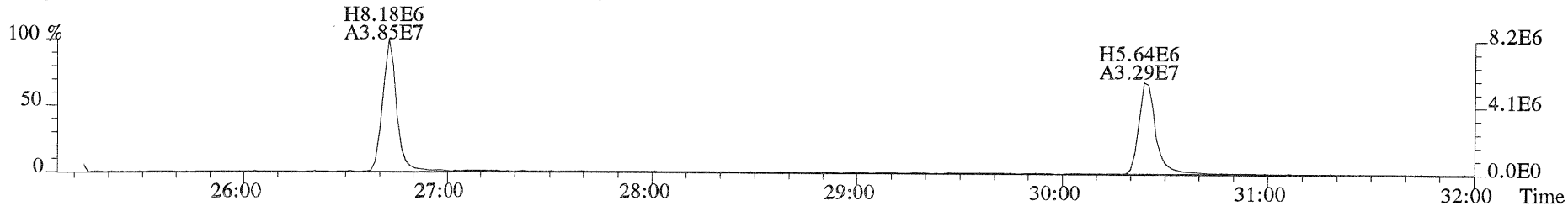
File:31JAN17Z #1-407 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



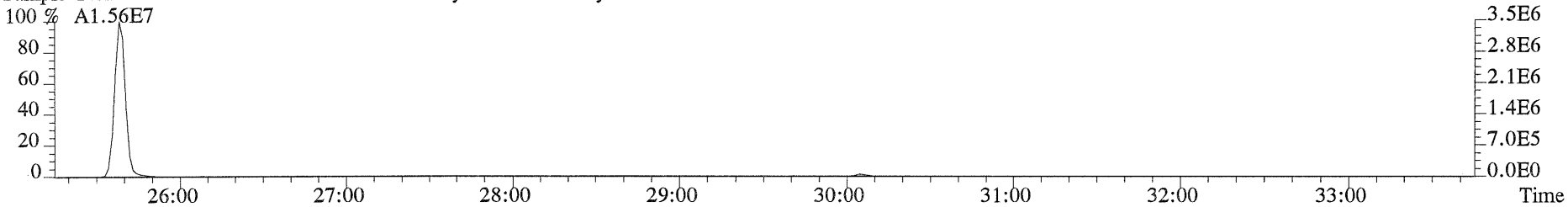
File:31JAN17Z #1-407 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



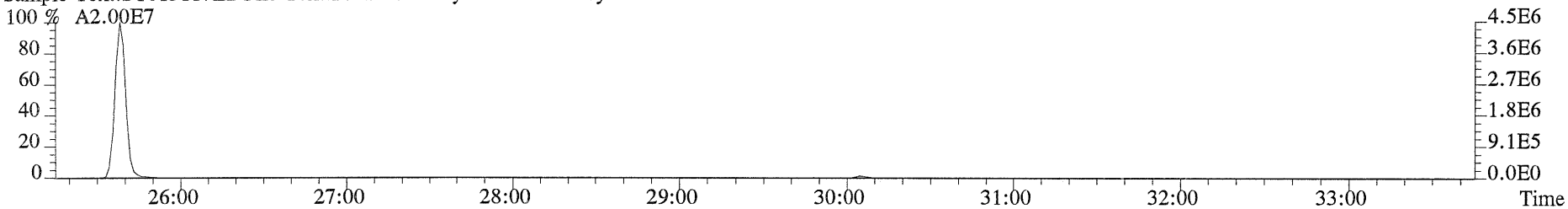
File:31JAN17Z #1-407 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



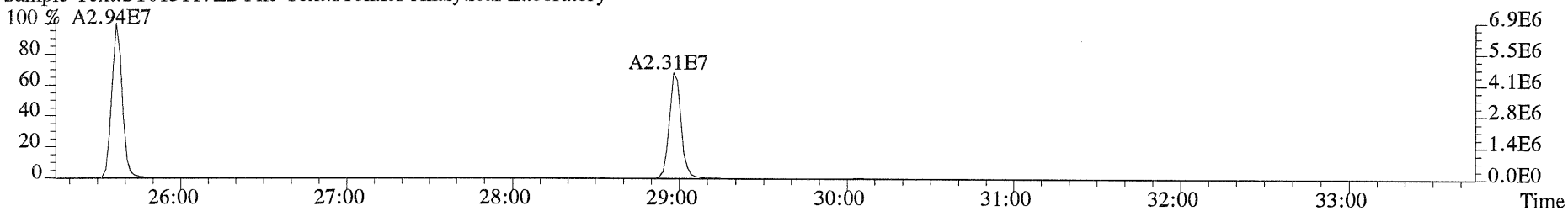
File:31JAN17Z #1-407 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



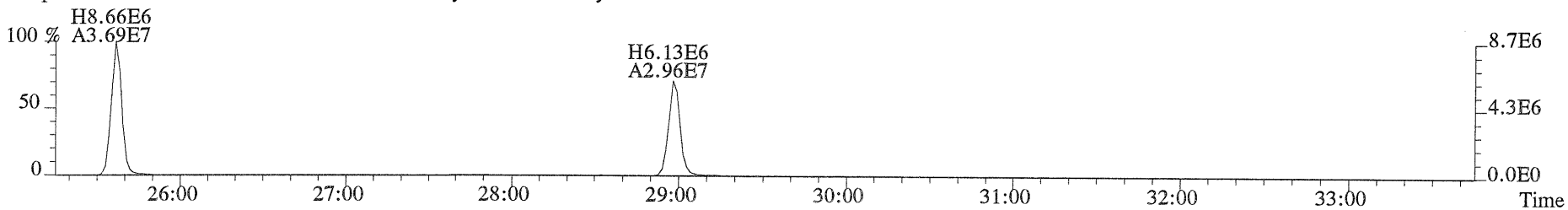
File:31JAN17Z #1-407 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



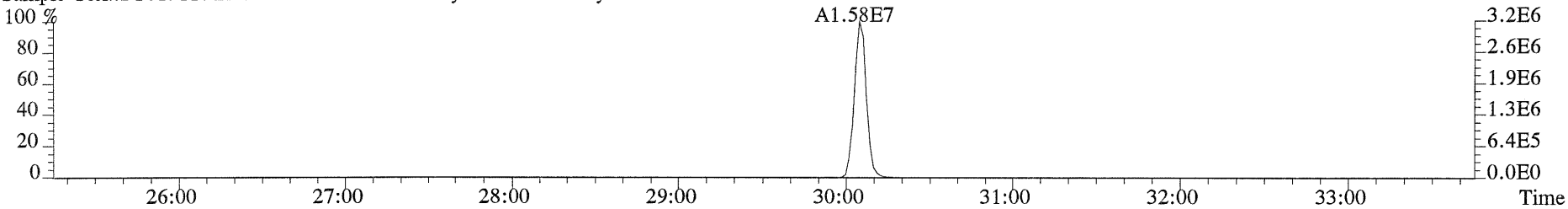
File:31JAN17Z #1-407 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



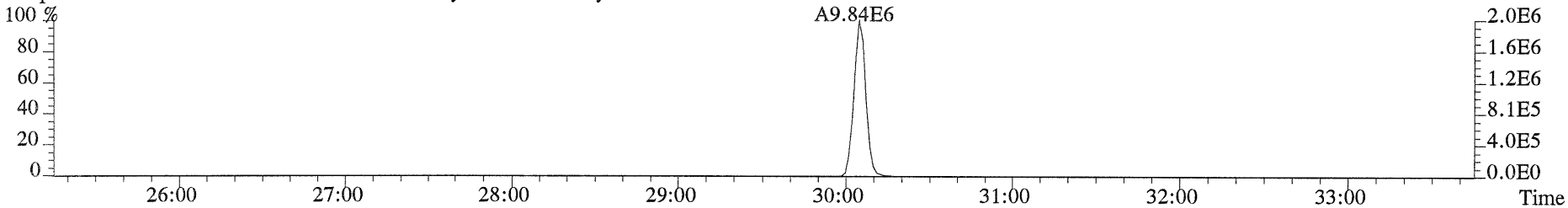
File:31JAN17Z #1-407 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



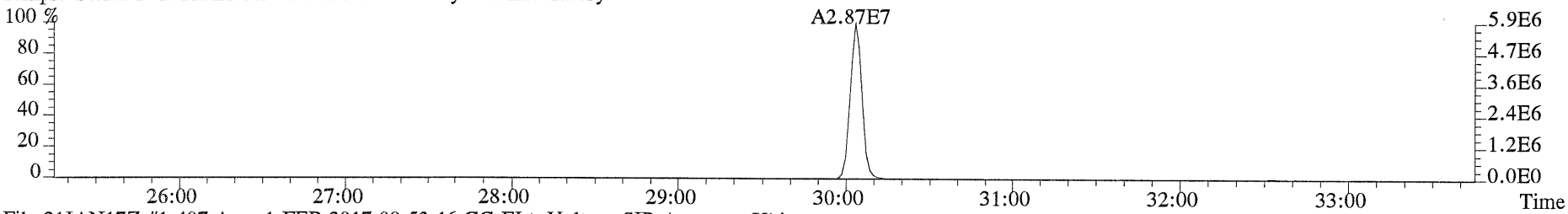
File:31JAN17Z #1-407 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



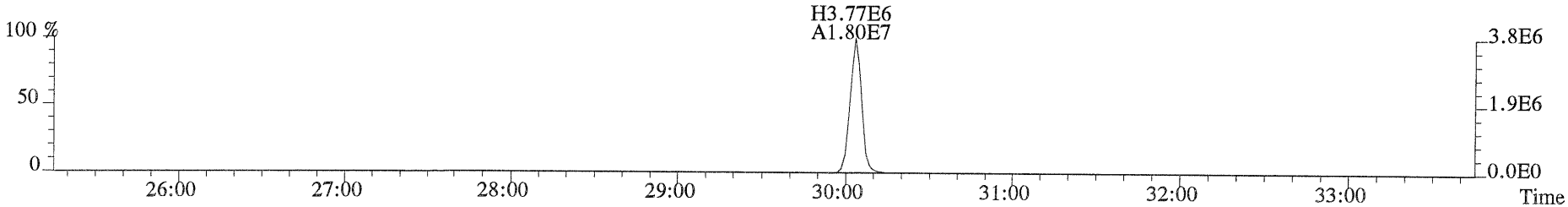
File:31JAN17Z #1-407 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



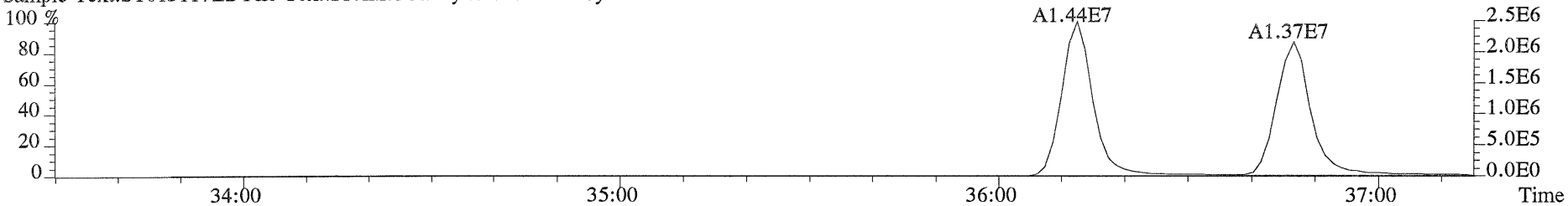
File:31JAN17Z #1-407 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



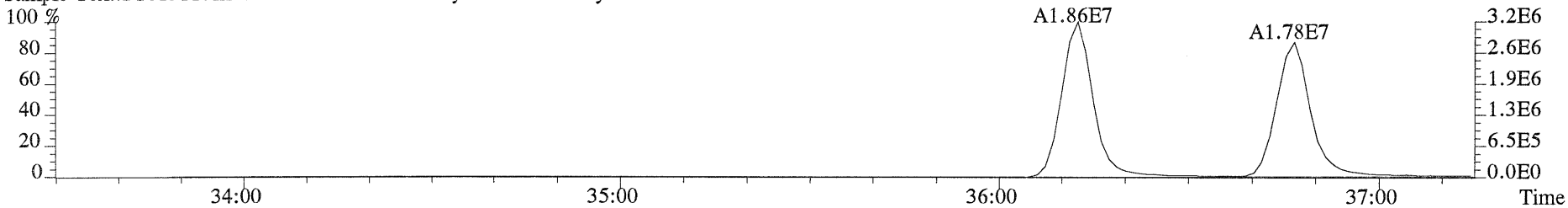
File:31JAN17Z #1-407 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



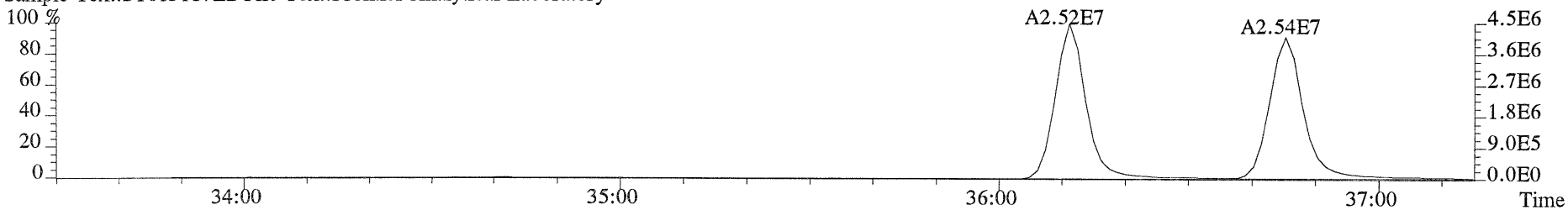
File:31JAN17Z #1-181 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



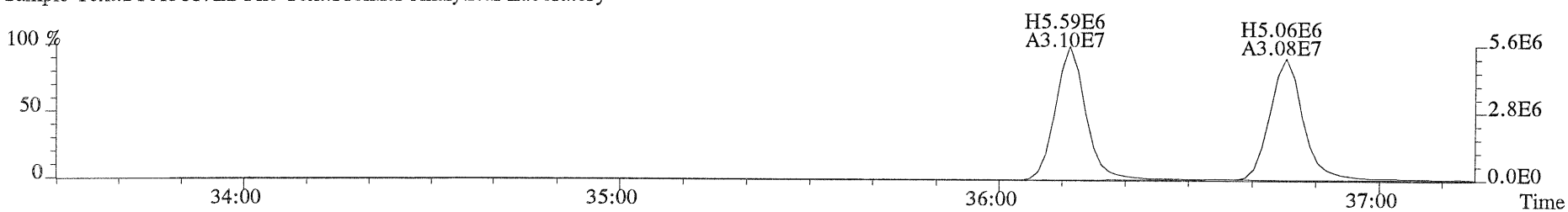
File:31JAN17Z #1-181 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



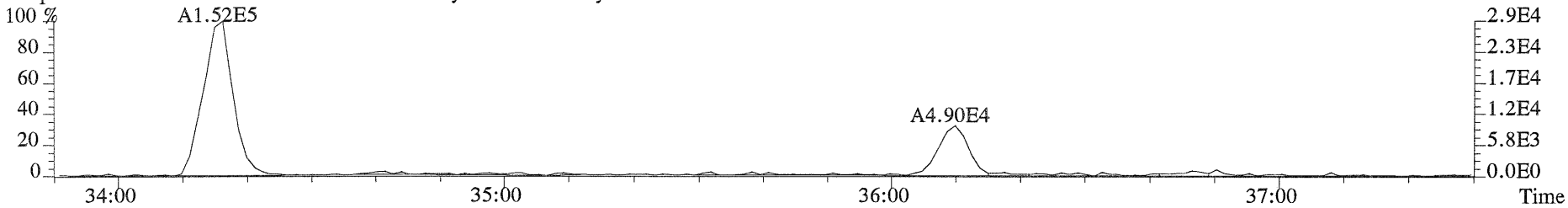
File:31JAN17Z #1-181 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



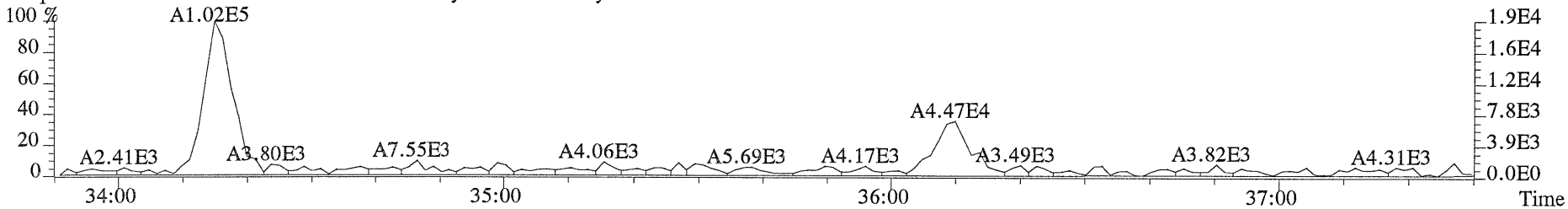
File:31JAN17Z #1-181 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



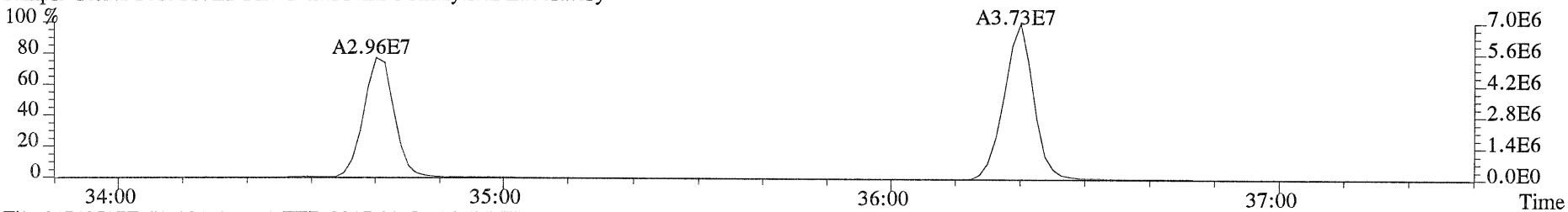
File:31JAN17Z #1-181 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



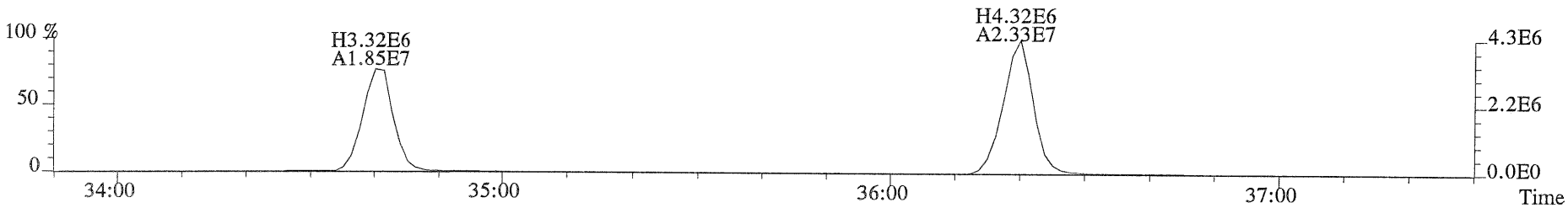
File:31JAN17Z #1-181 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



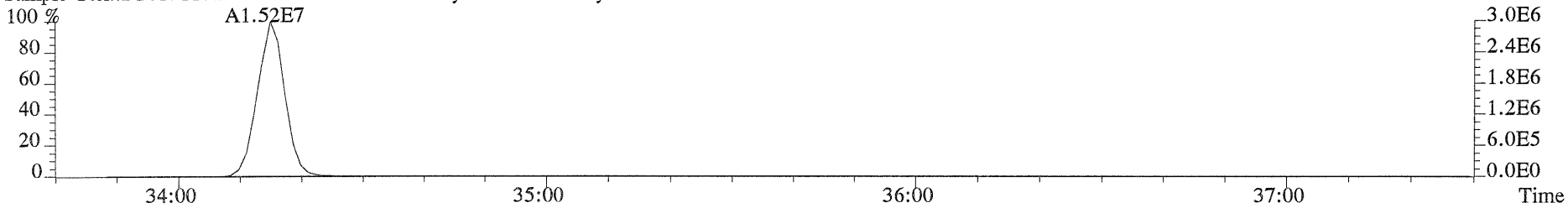
File:31JAN17Z #1-181 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



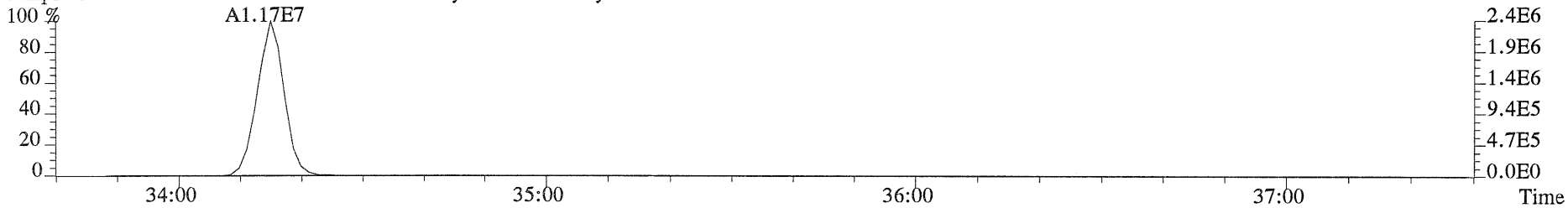
File:31JAN17Z #1-181 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



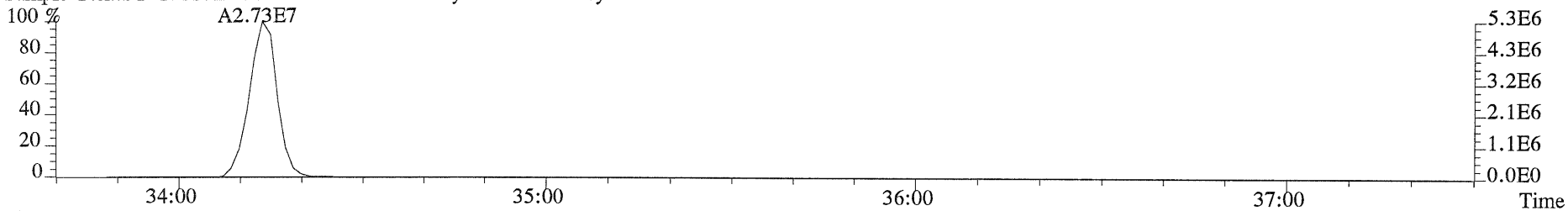
File:31JAN17Z #1-181 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



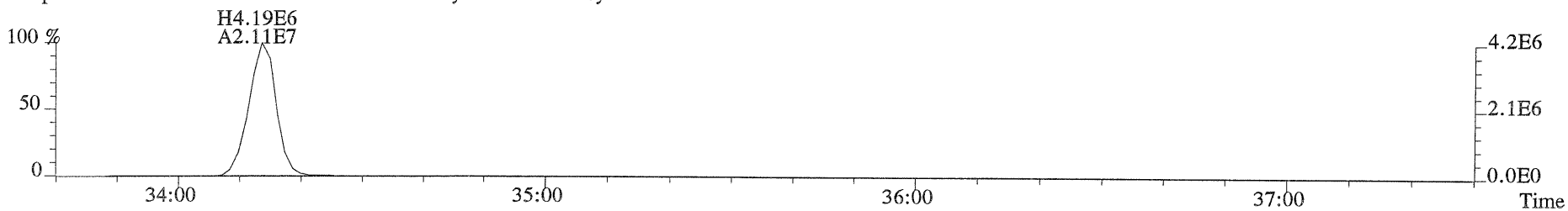
File:31JAN17Z #1-181 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



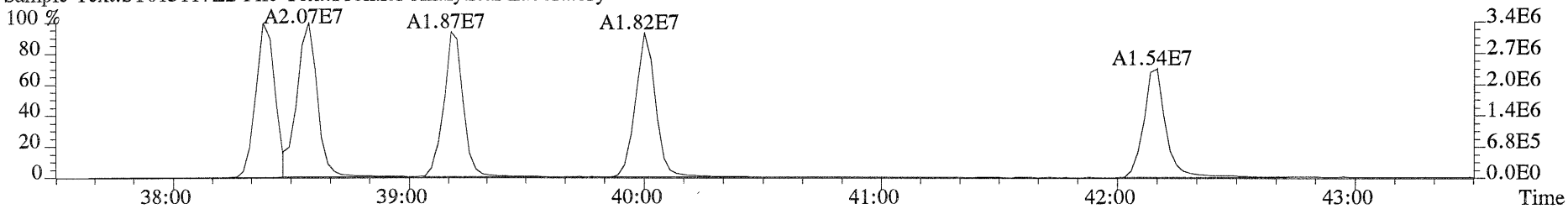
File:31JAN17Z #1-181 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



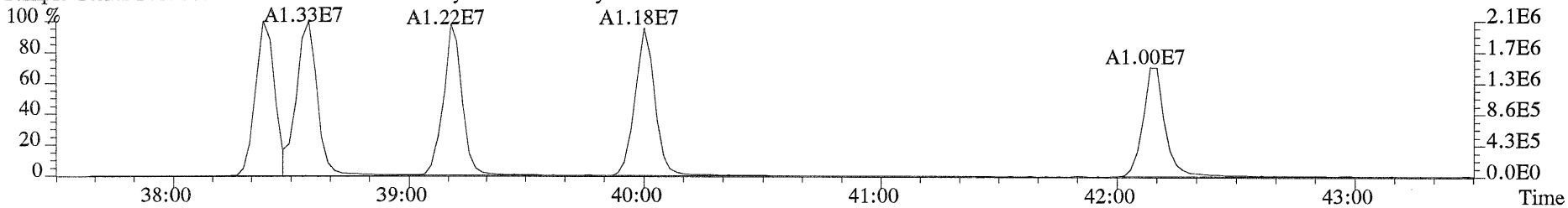
File:31JAN17Z #1-181 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



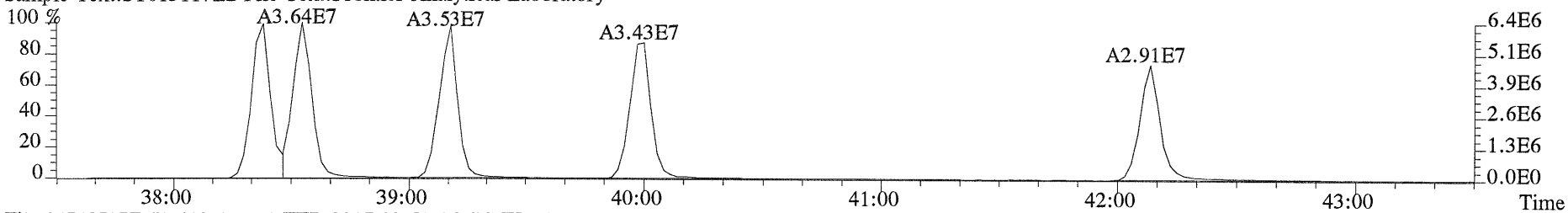
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



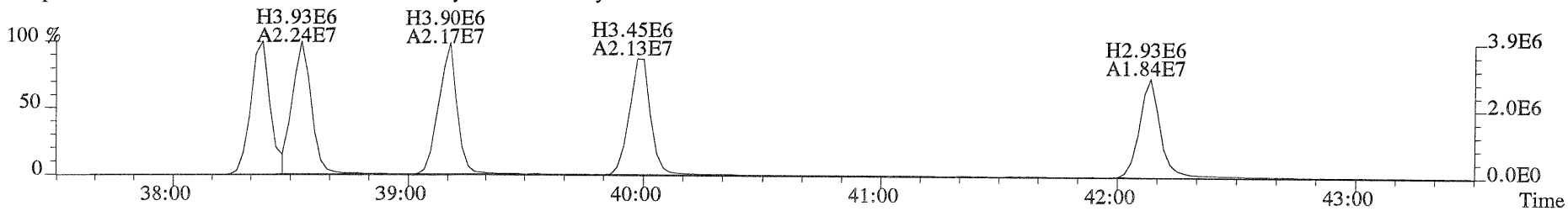
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



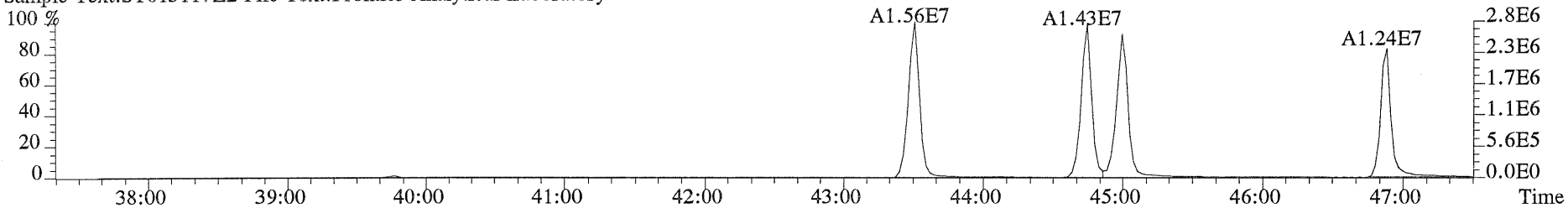
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



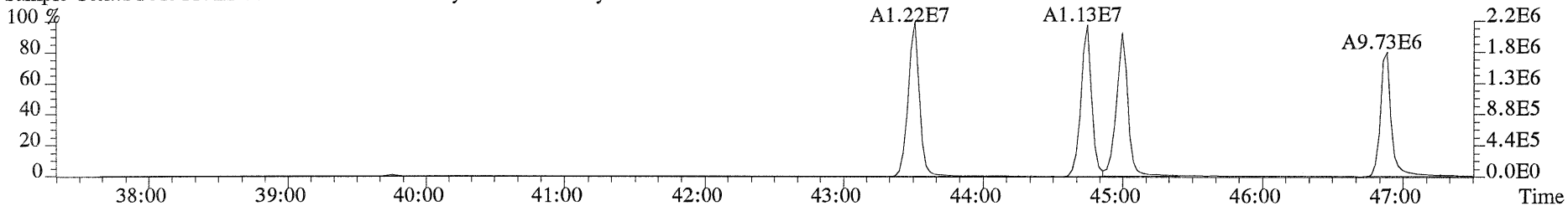
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



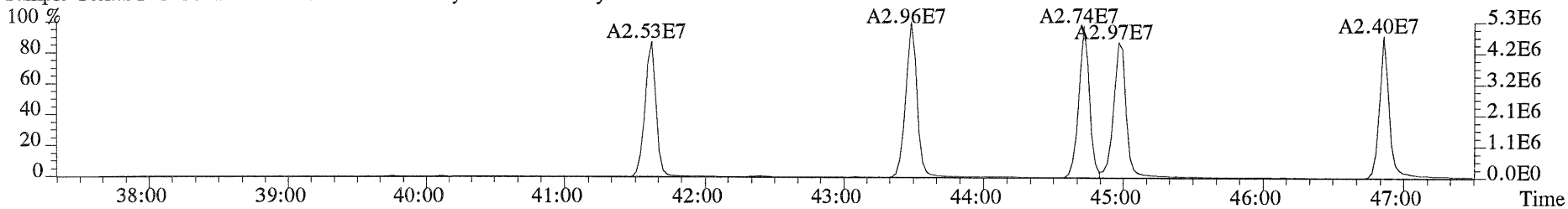
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



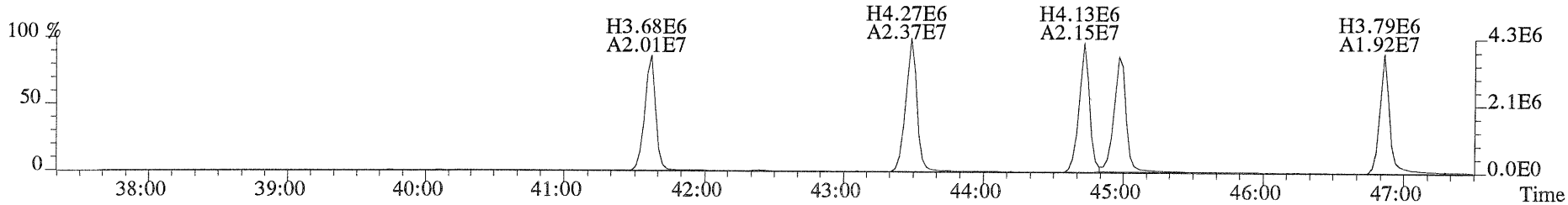
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



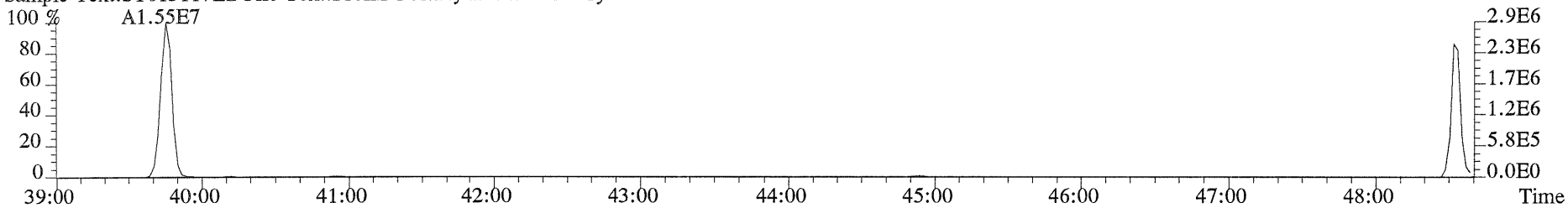
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



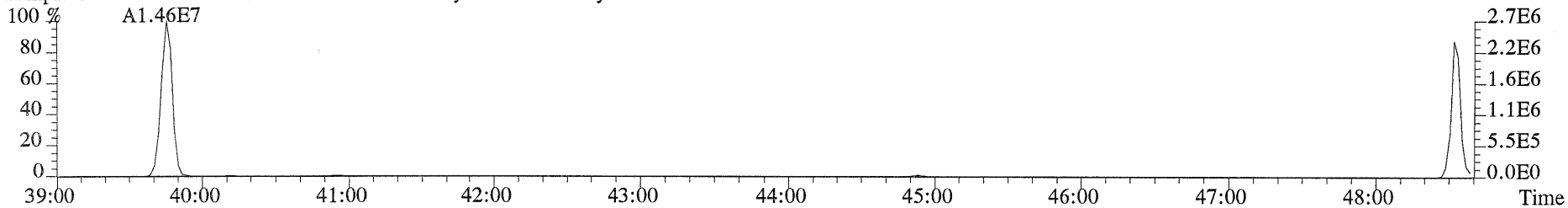
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



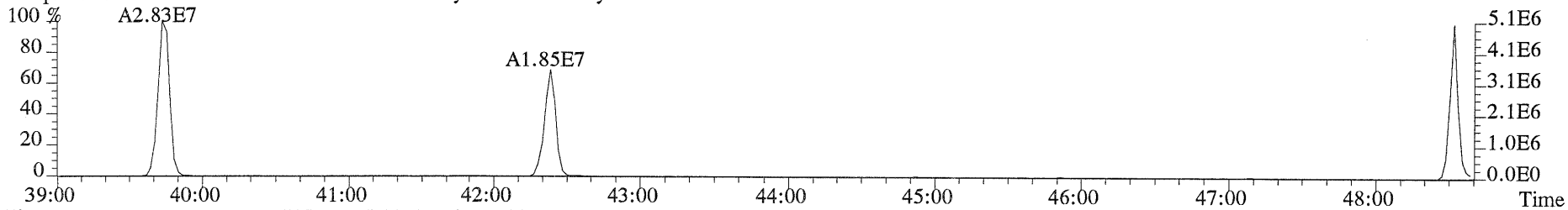
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



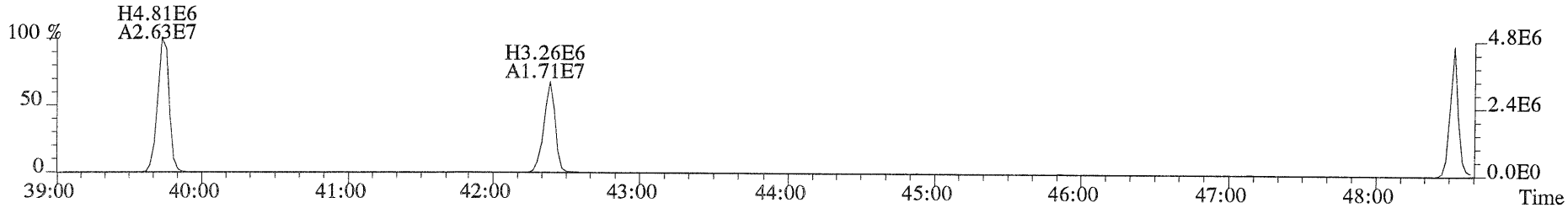
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



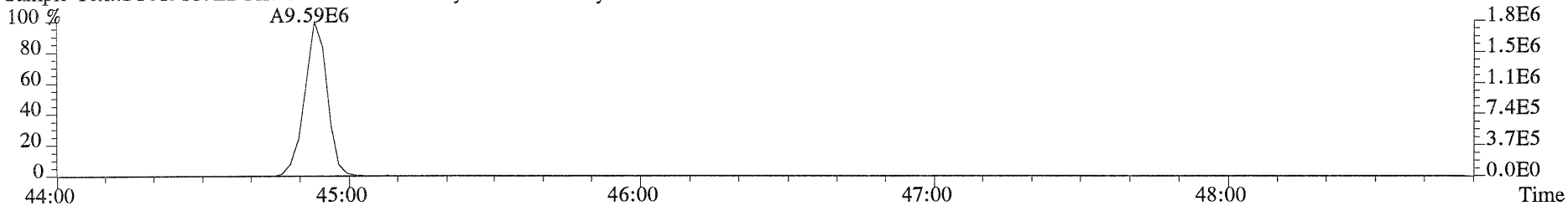
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



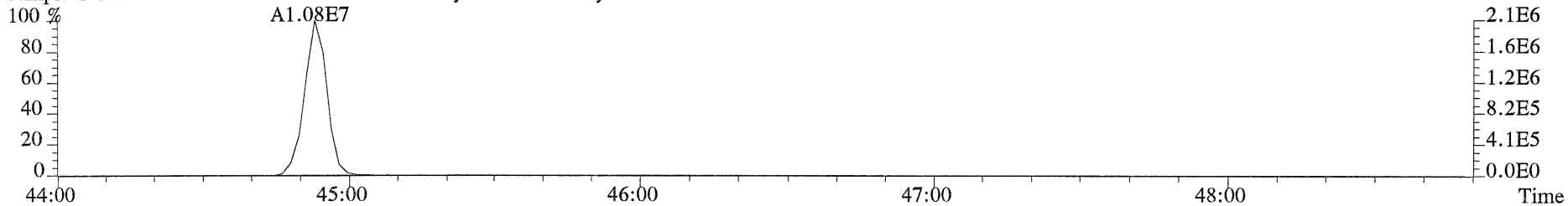
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



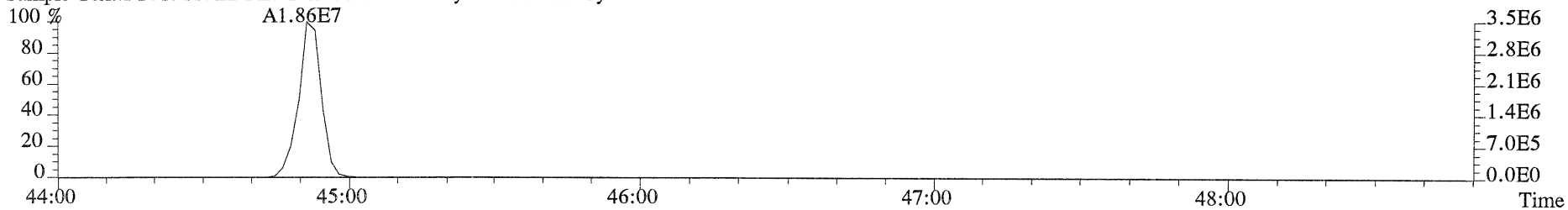
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



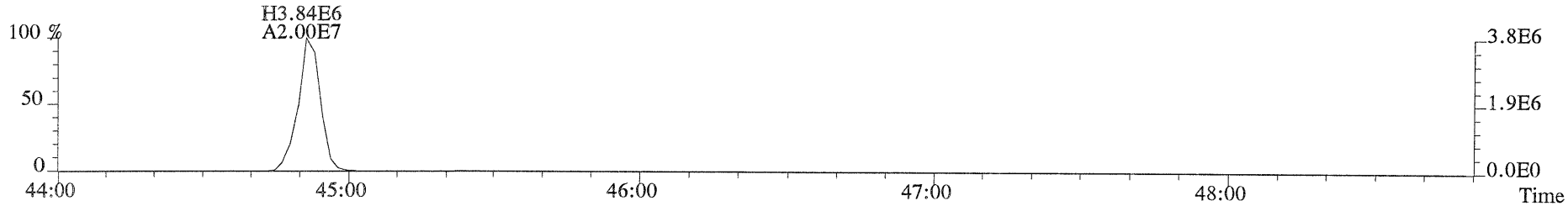
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



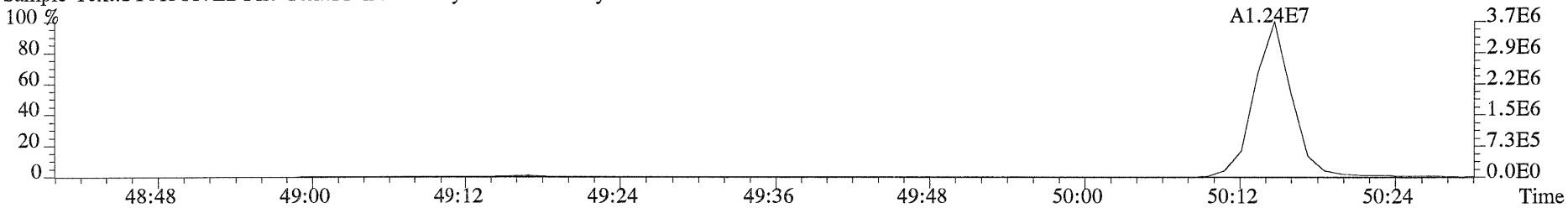
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



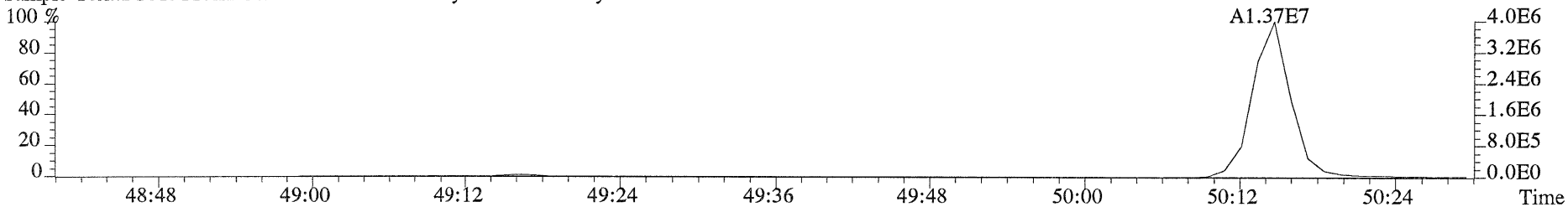
File:31JAN17Z #1-413 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



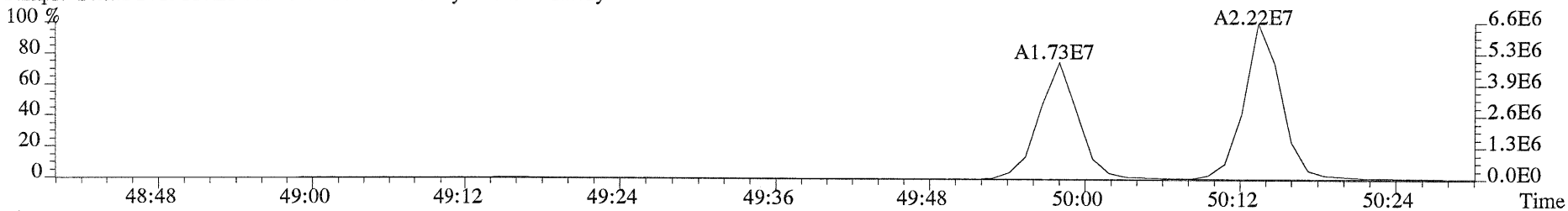
File:31JAN17Z #1-306 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



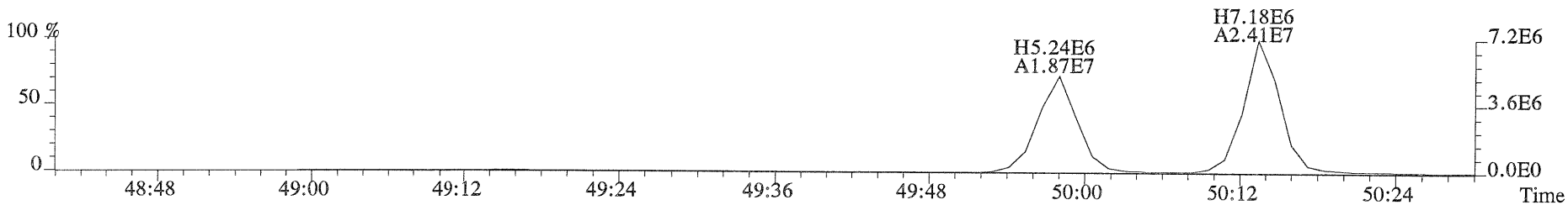
File:31JAN17Z #1-306 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



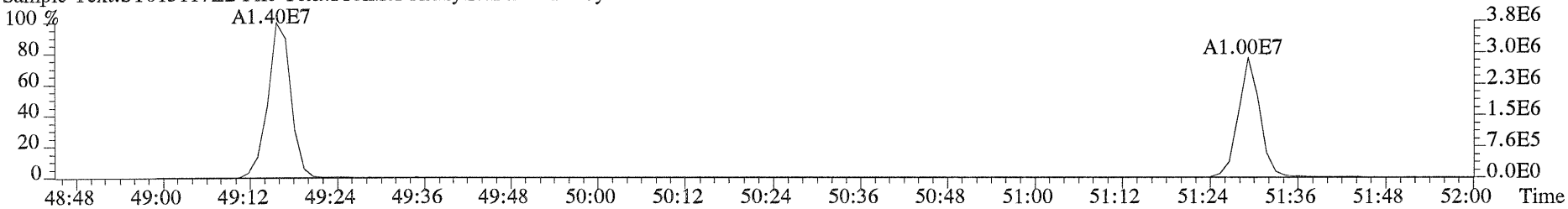
File:31JAN17Z #1-306 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



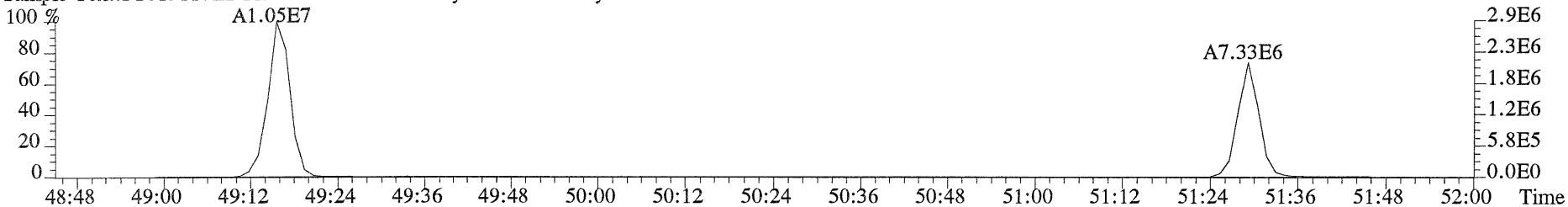
File:31JAN17Z #1-306 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



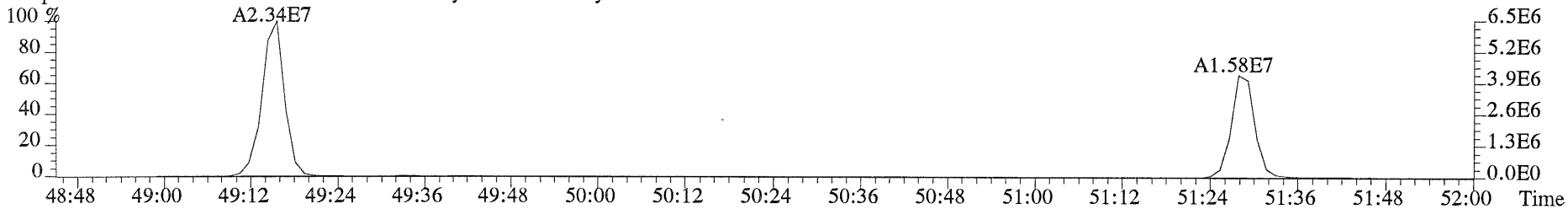
File:31JAN17Z #1-306 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



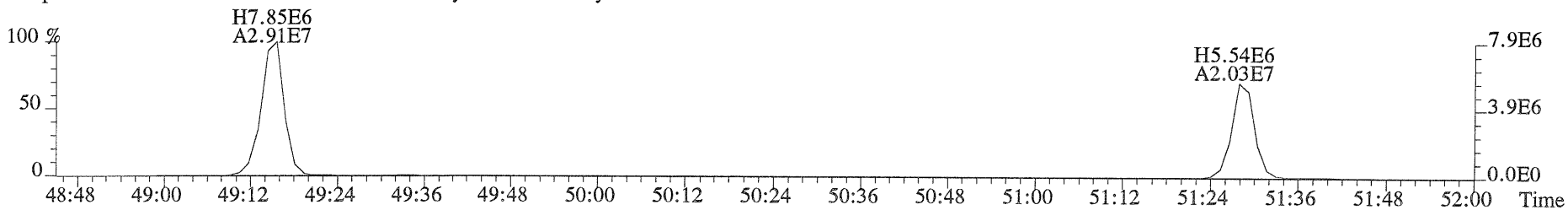
File:31JAN17Z #1-306 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



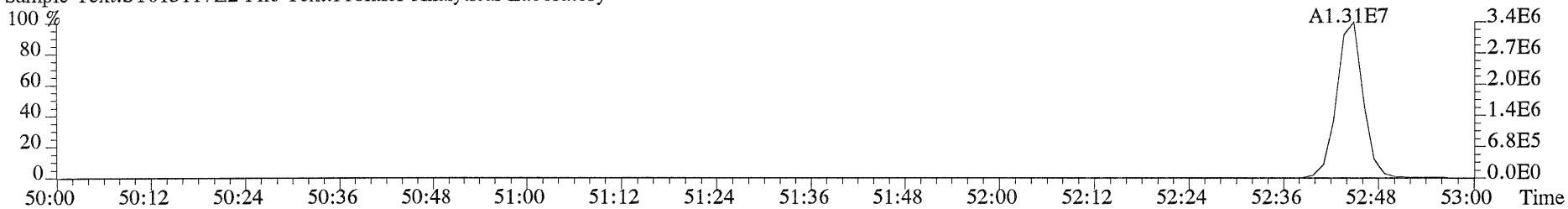
File:31JAN17Z #1-306 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



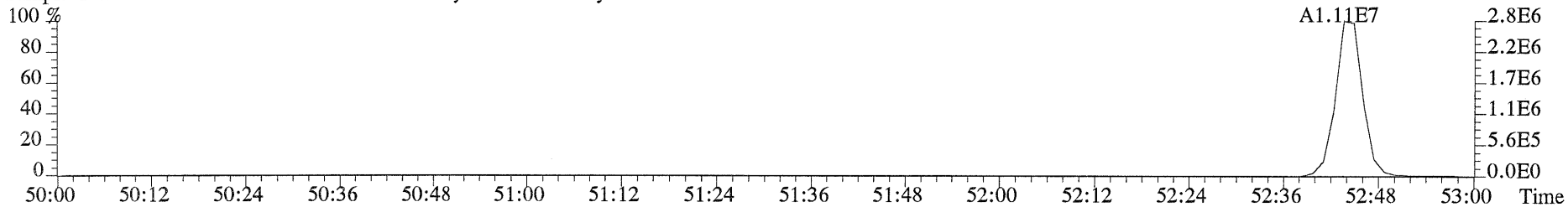
File:31JAN17Z #1-306 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



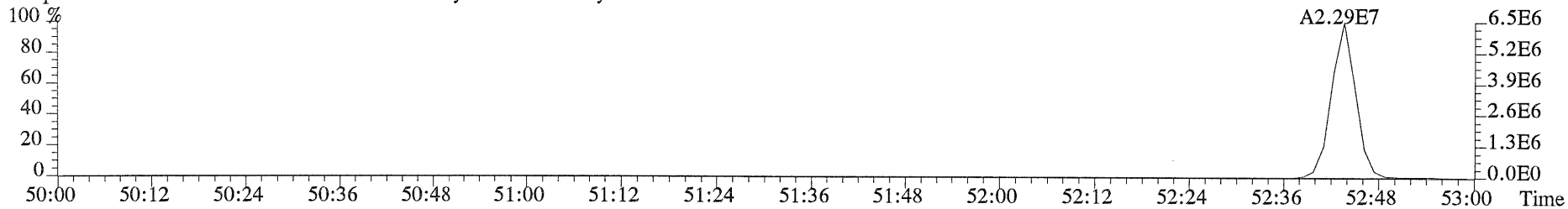
File:31JAN17Z #1-306 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:13 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST013117Z2 File Text:Frontier Analytical Laboratory



File:31JAN17Z #1-306 Acq: 1-FEB-2017 00:52:16 GC EI+ Voltage SIR Autospec-Ultima
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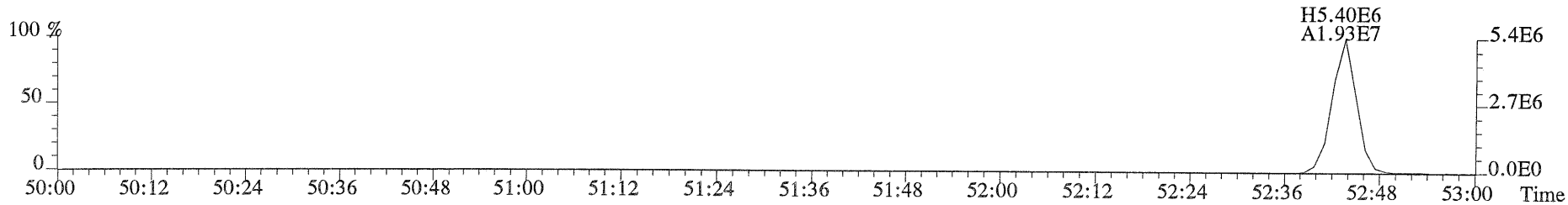
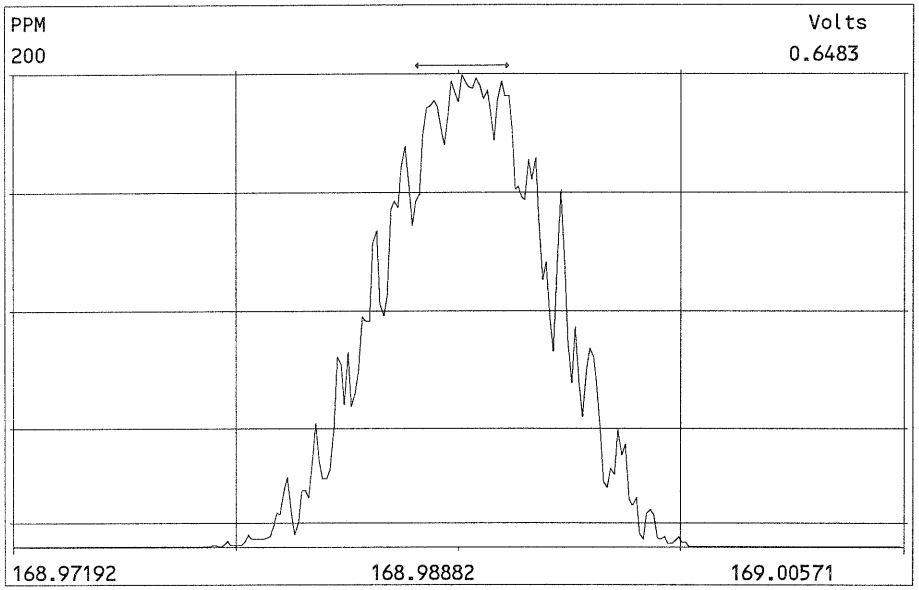
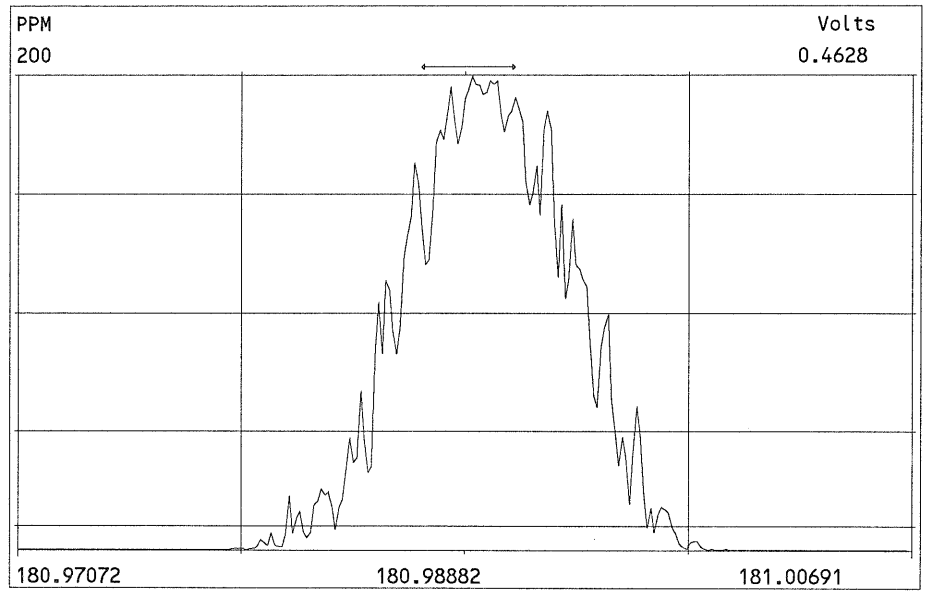
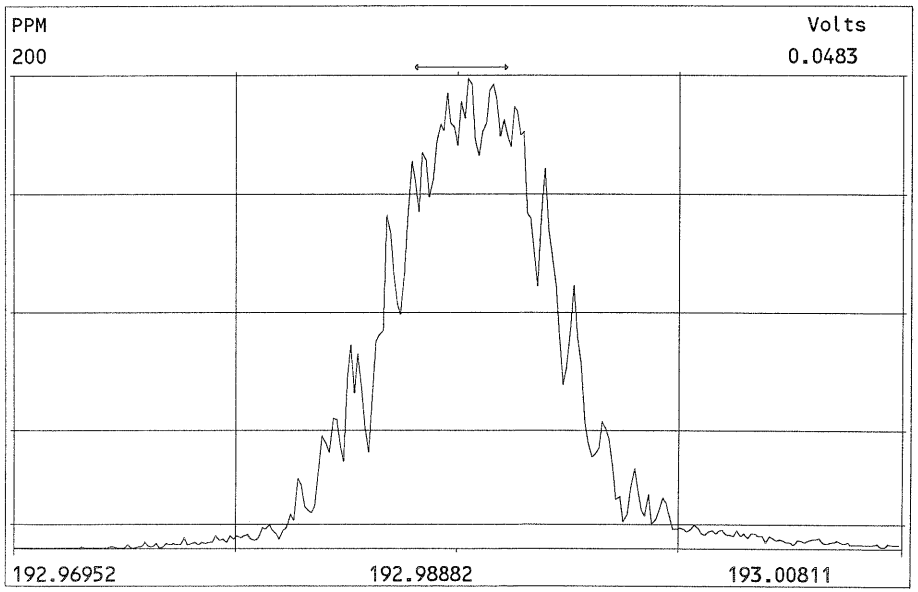
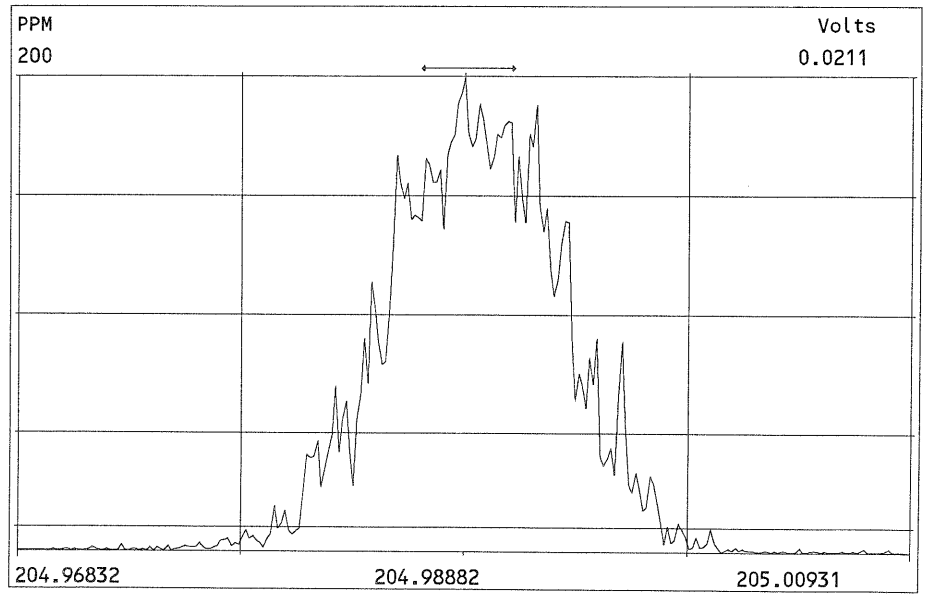


Peak Locate Examination: 1-FEB-2017:01:52 File:31JAN17Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

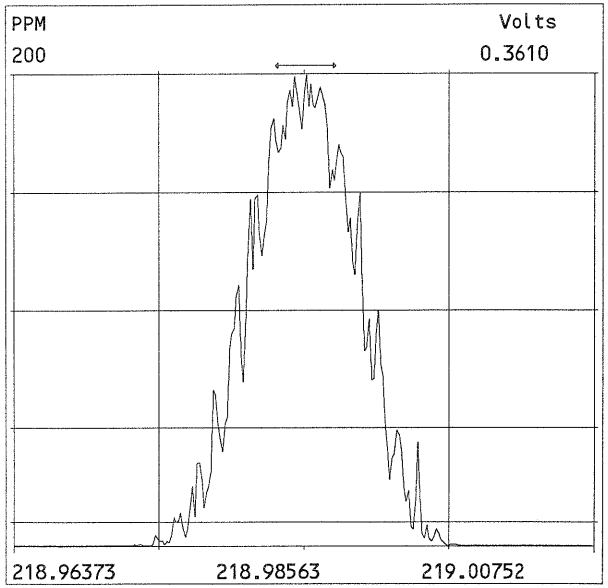


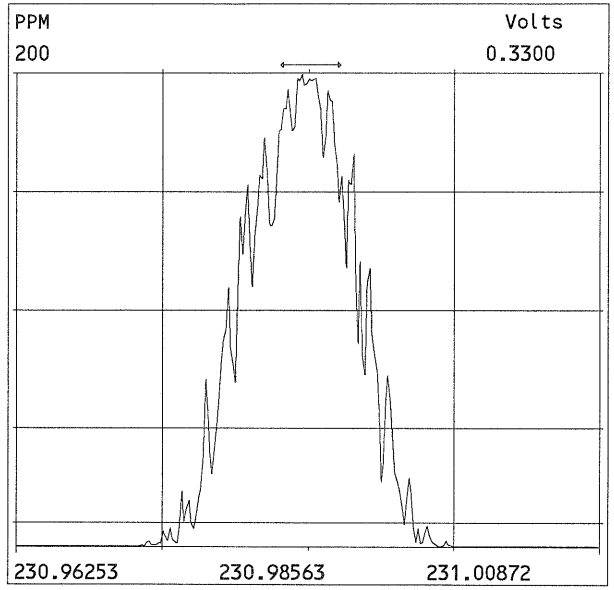


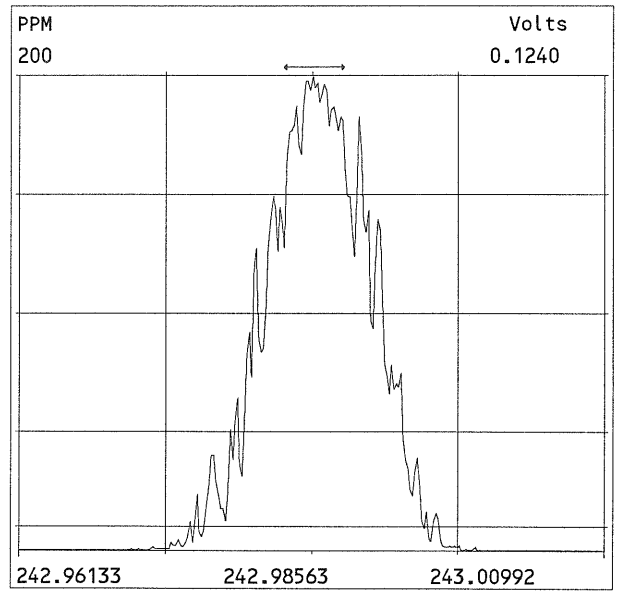


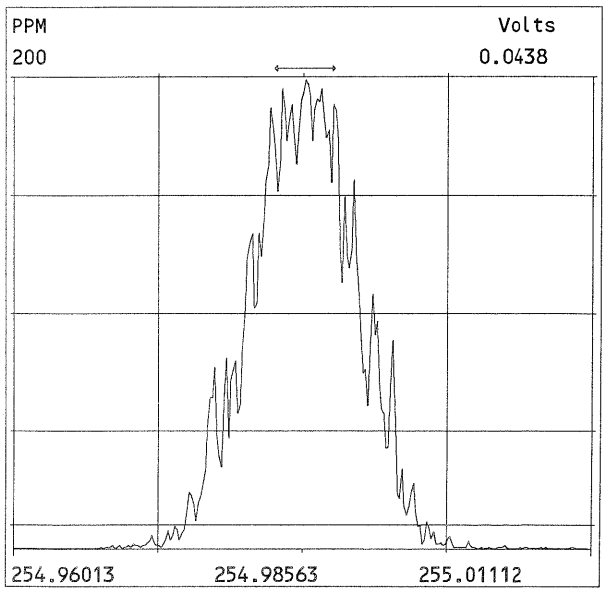


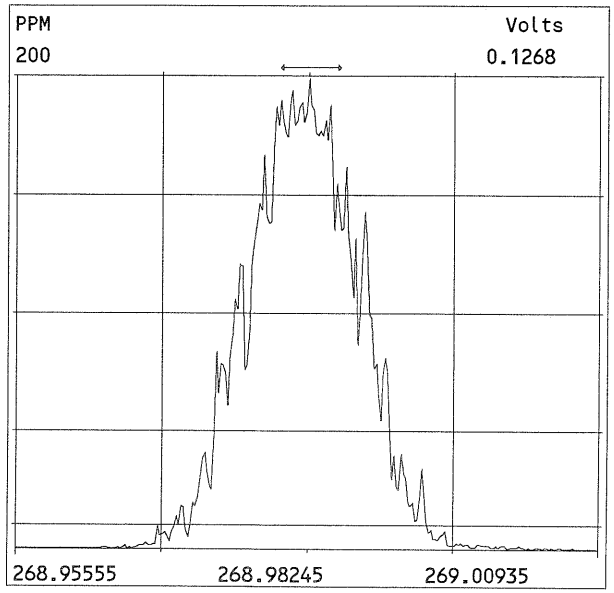
Peak Locate Examination: 1-FEB-2017:01:52 File:31JAN17Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

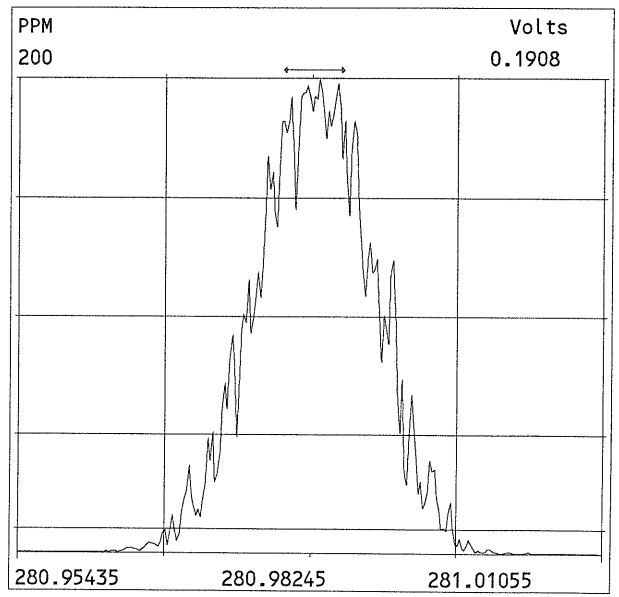




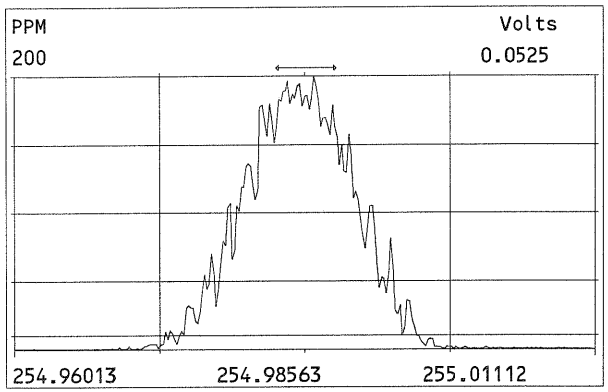


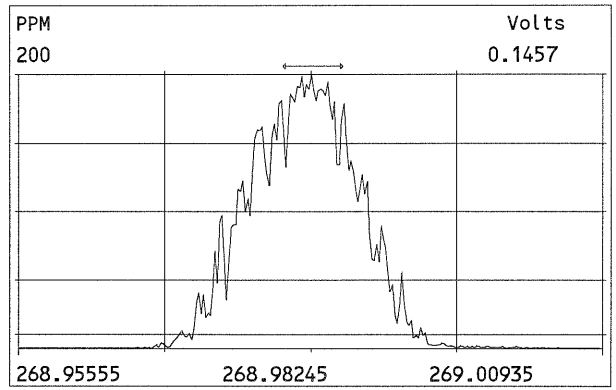


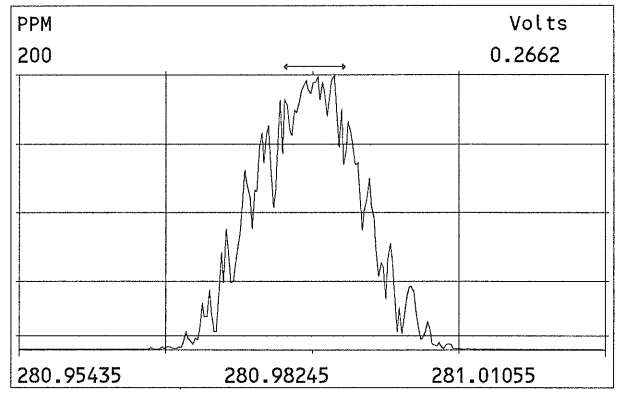


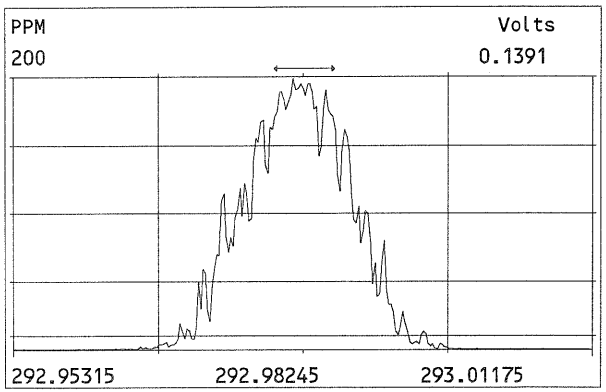


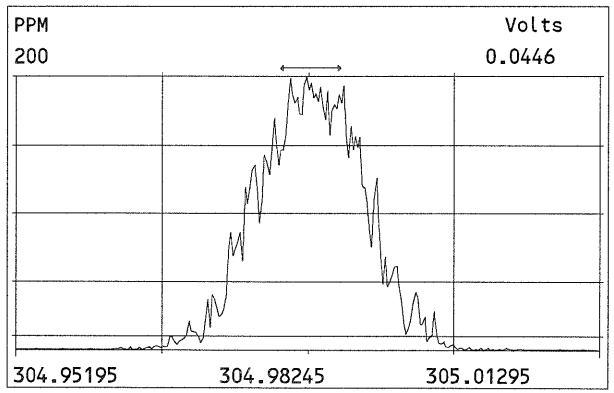
Peak Locate Examination: 1-FEB-2017:01:52 File:31JAN17Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

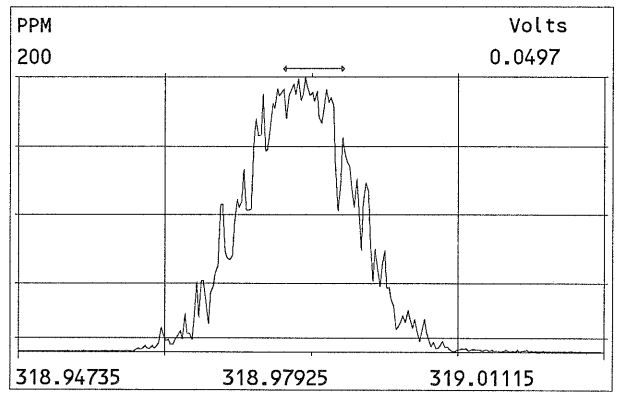


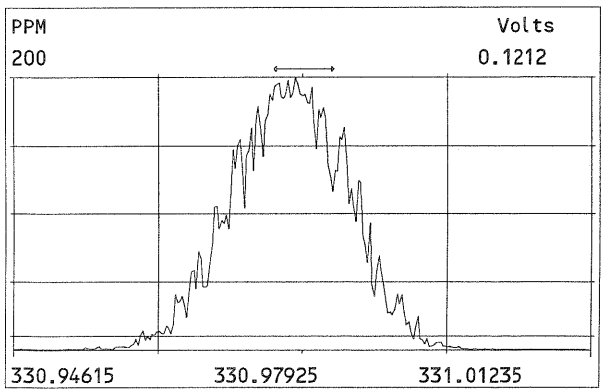


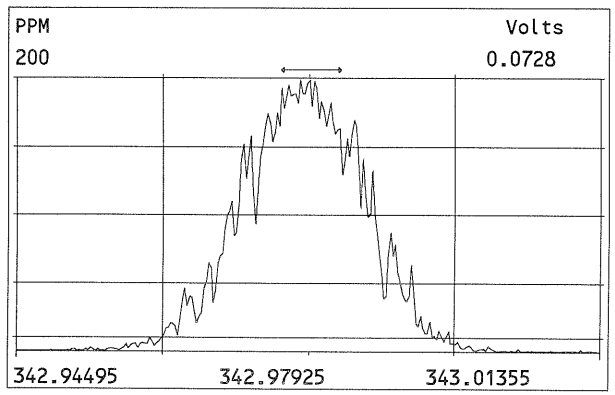




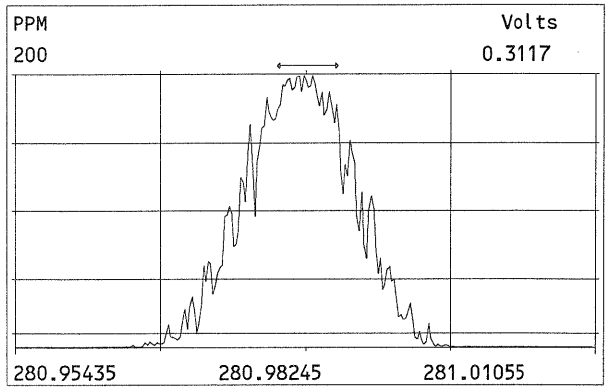


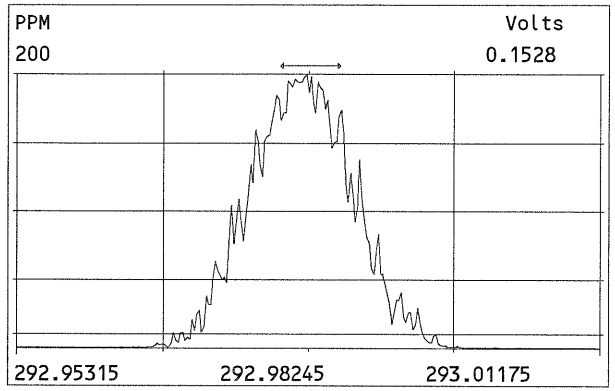


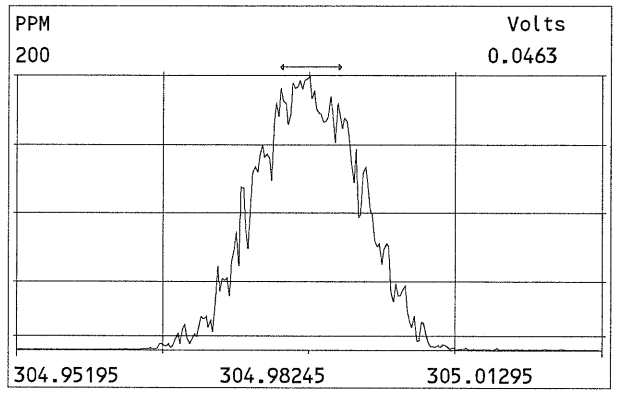


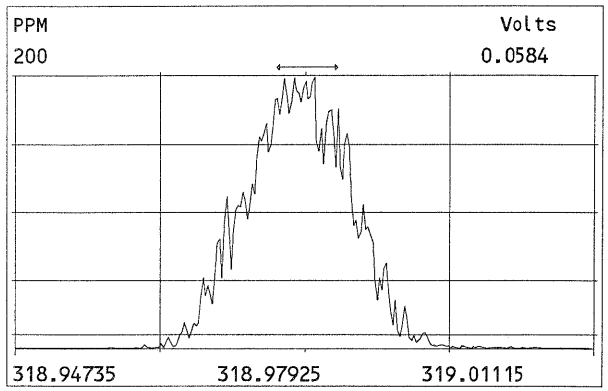


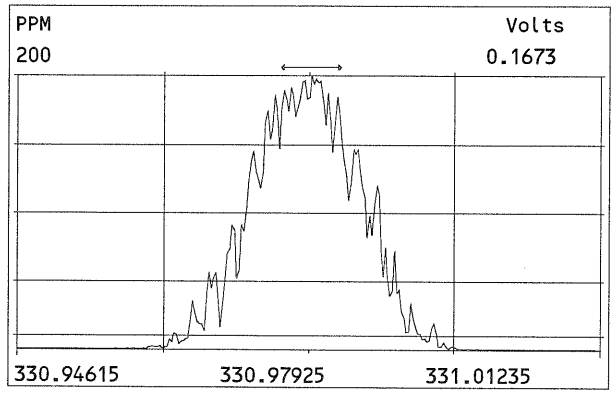
Peak Locate Examination: 1-FEB-2017:01:53 File:31JAN17Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

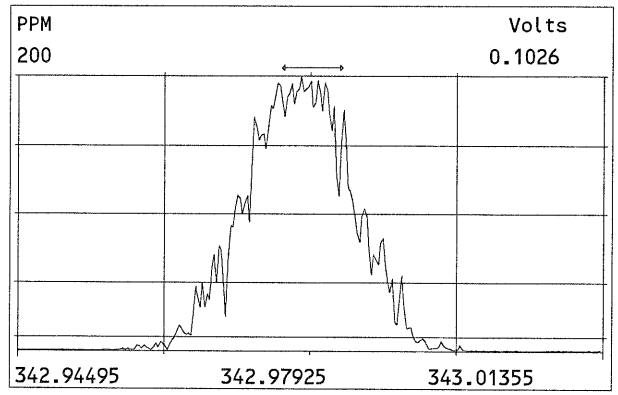


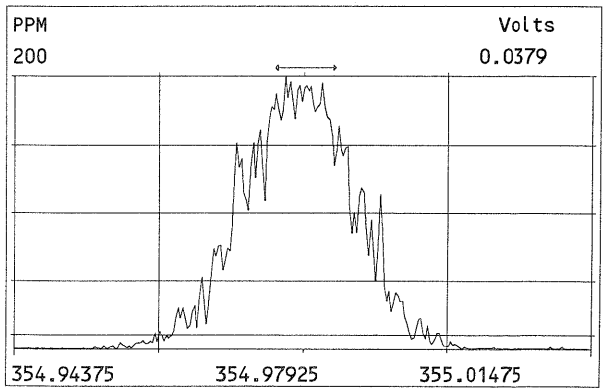


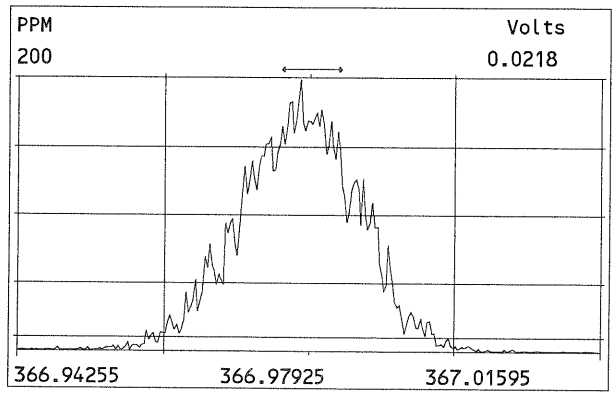


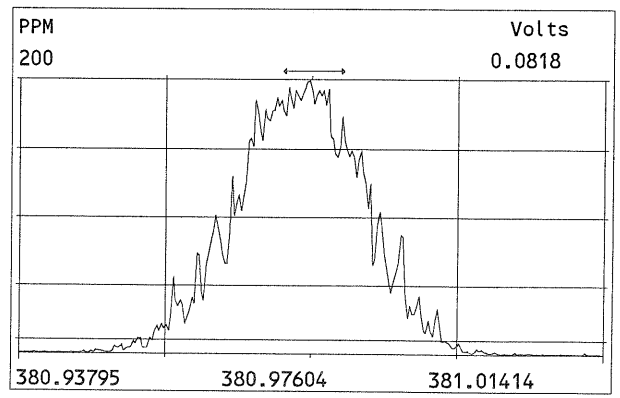




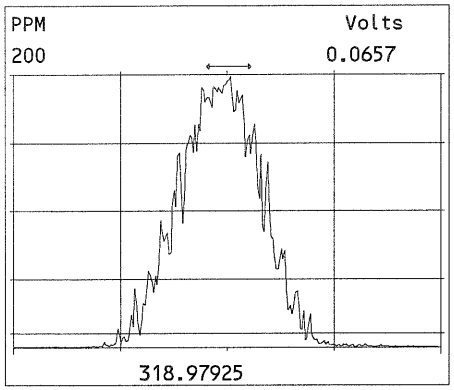


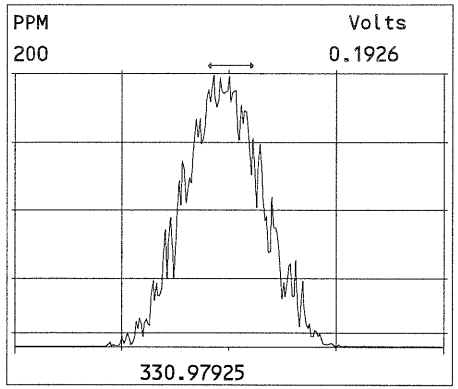


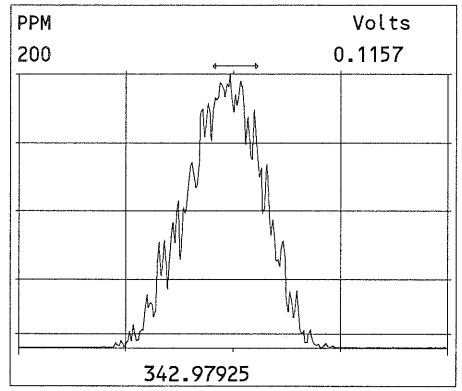


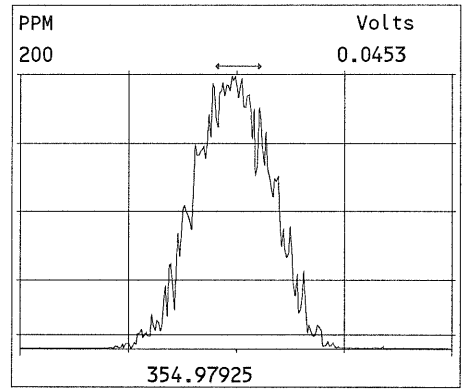


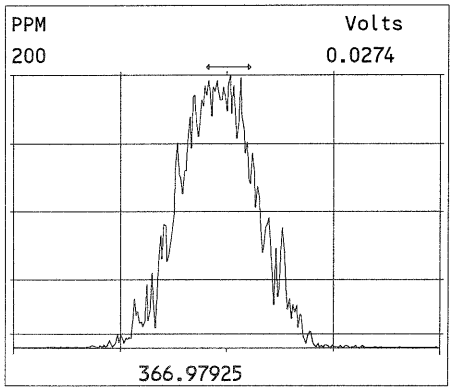
Peak Locate Examination: 1-FEB-2017:01:53 File:31JAN17Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

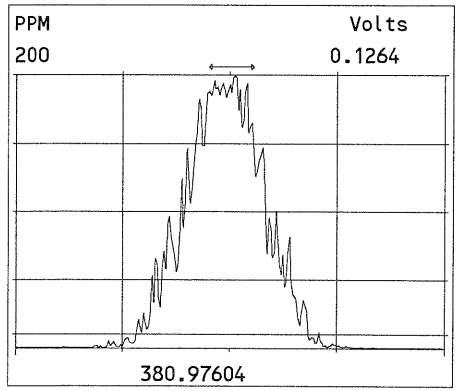


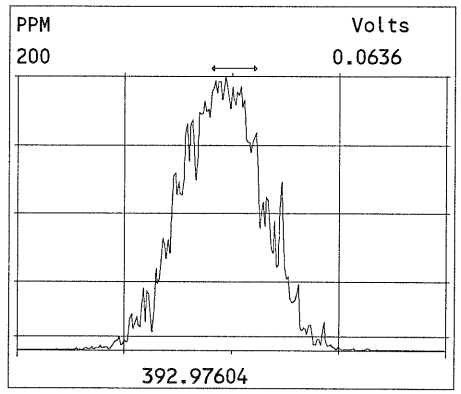


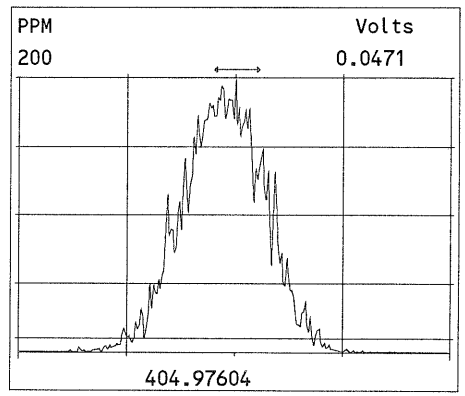


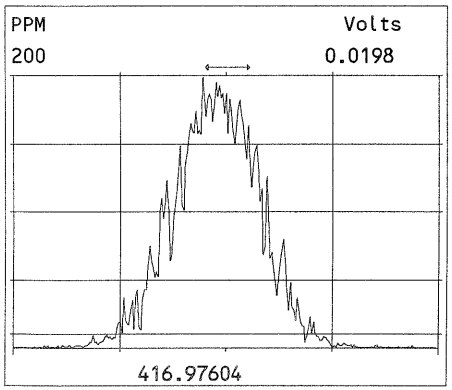


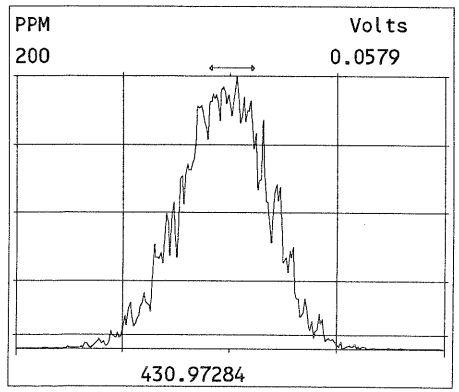


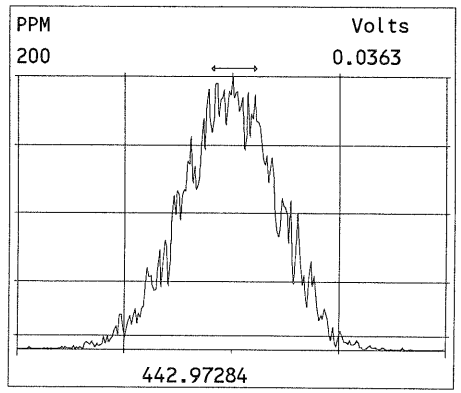
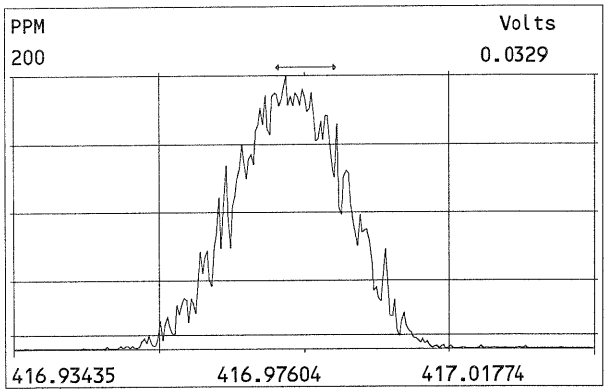
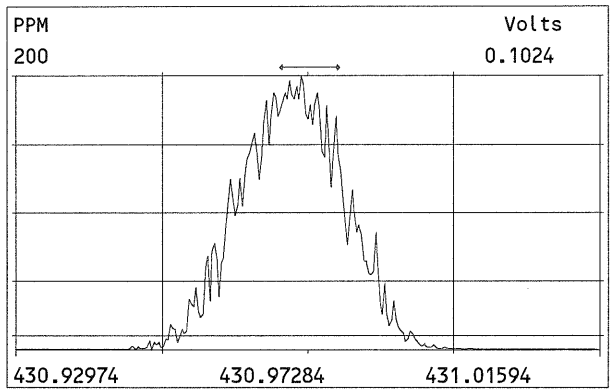
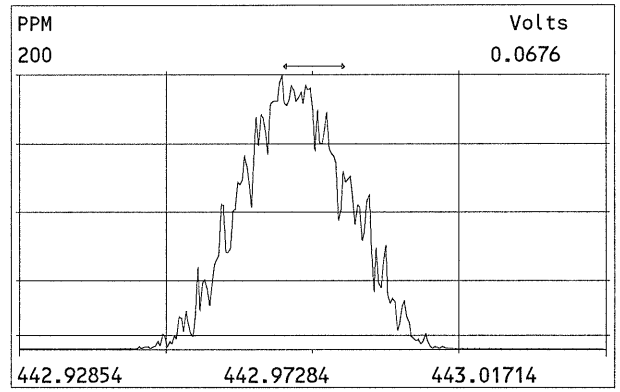
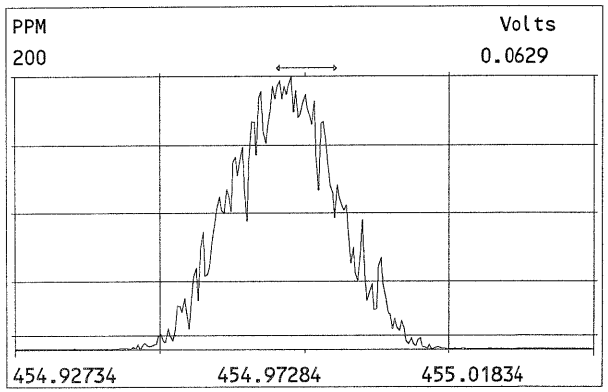
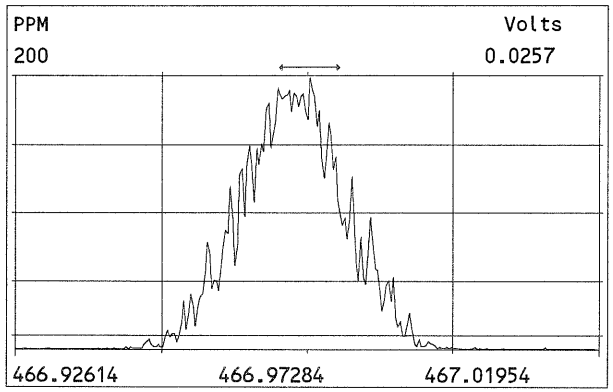
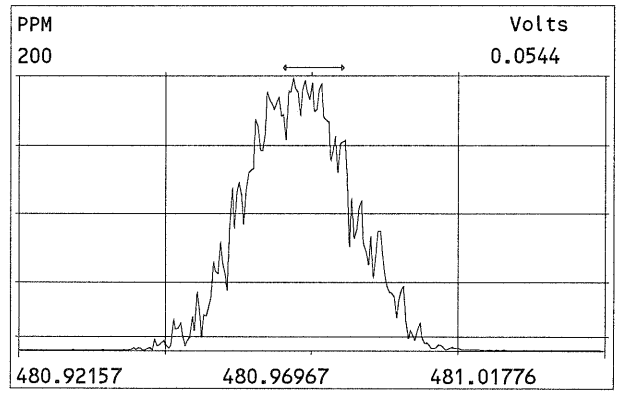
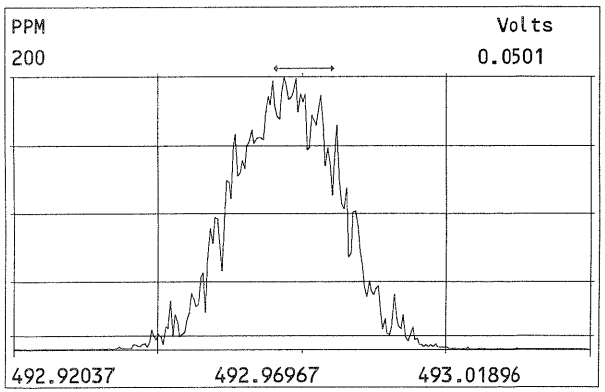
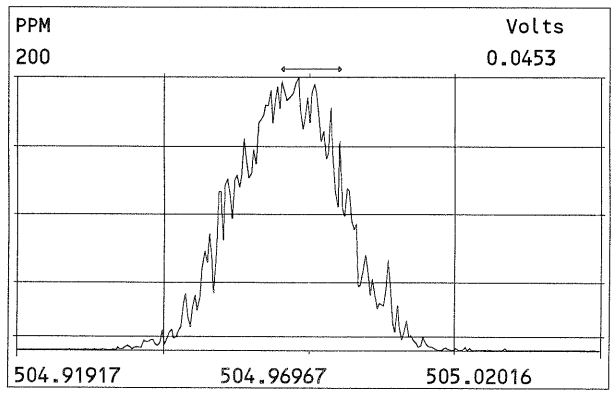
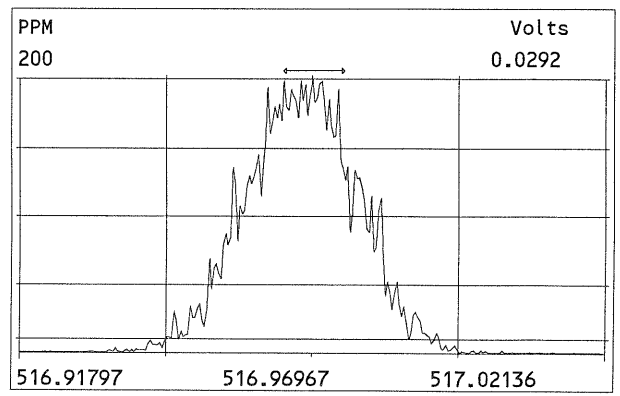












Peak Locate Examination: 1-FEB-2017:01:54 File:31JAN17Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK