August 25, 2016

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

Dear Dr. Heavner,

Enclosed are the results for Frontier Analytical Laboratory project **10051**. These results correspond to your project **LDW ENRIAC Pilot Study** and project number **LY15160310**. One solid sample was received on 7/28/2016. Initially this sample was placed on hold. On 8/4/2016 we were contacted by Jessica Youngblood to proceed with the analysis of this sample. This sample was extracted and analyzed following EPA Method 1668C for all 209 polychlorinated biphenyls (PCBs). The total PCB concentration is listed in the upper right hand corner of the first data page (Page 1 of 3) of each EPA Method 1668C sample. A turnaround time of fifteen business days was requested for this project.

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

If you have any questions regarding project **10051**, please feel free to contact me at 916-934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **10051**

Received on: **07/28/2016** Project Due: **08/19/2016** Storage: **R3**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
10051-001-SA	1	LY15160310	LDW-BA-PC-ENRMATERIAL-GAC	EPA 1668 PCB	Solid	07/25/2016	01:55 pm	07/25/2017

FAL Sample ID	Notes
10051-001-SA	Sample taken off hold per Jessica to Kathy via email dated 8-4-16. New Due Date: 8-26-16

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EPA Method 1668
PCBs

FAL ID: 10051-001-MB
Client ID: Method Blank
Matrix: Solid
Batch No: X3816

Date Extracted: 08-17-2016
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-8-18-16
GC Column: DB1
Units: pg/g

Acquired: 08-19-2016
Total Conc: 5.44

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	1.13			PCB-51	ND	1.44		
PCB-2	ND	1.12			PCB-52	ND	1.17	C	69
PCB-3	ND	0.773			PCB-53	ND	1.44		
PCB-4	ND	1.18			PCB-54	ND	1.04		
PCB-5	ND	1.04			PCB-55	ND	1.14		
PCB-6	ND	1.05			PCB-56	ND	1.43	C	60
PCB-7	ND	1.07			PCB-57	ND	1.17		
PCB-8	ND	1.23			PCB-58	ND	1.12		
PCB-9	ND	1.10			PCB-59	-	-	C042	42
PCB-10	ND	1.10			PCB-60	-	-	C056	56
PCB-11	5.44	-			PCB-61	ND	1.09	C	70
PCB-12	ND	1.22			PCB-62	ND	1.26		
PCB-13	ND	1.39			PCB-63	ND	1.18		
PCB-14	ND	1.10			PCB-64	-	-	C041	41/71/72
PCB-15	ND	1.30			PCB-65	ND	1.17		
PCB-16	ND	1.02			PCB-66	ND	1.12	C	76
PCB-17	ND	1.15			PCB-67	ND	1.28		
PCB-18	ND	1.29			PCB-68	ND	1.13		
PCB-19	ND	1.21			PCB-69	-	-	C052	52
PCB-20	ND	1.57	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	1.57			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.53			PCB-73	ND	1.19		
PCB-24	ND	0.839			PCB-74	ND	1.15		
PCB-25	ND	1.31			PCB-75	-	-	C048	48
PCB-26	ND	1.68			PCB-76	-	-	C066	66
PCB-27	ND	0.913			PCB-77	ND	1.90		
PCB-28	ND	1.33			PCB-78	ND	1.65		
PCB-29	ND	1.63			PCB-79	ND	1.55		
PCB-30	ND	0.855			PCB-80	ND	1.04		
PCB-31	ND	1.68			PCB-81	ND	1.28		
PCB-32	ND	1.03			PCB-82	ND	1.91		
PCB-33	-	-	C020	20/21	PCB-83	ND	1.35	C	112
PCB-34	ND	1.84			PCB-84	ND	1.59	C	92
PCB-35	ND	1.91			PCB-85	ND	1.29	C	116
PCB-36	ND	1.76			PCB-86	ND	1.68		
PCB-37	ND	1.57			PCB-87	ND	1.20	C	117/125
PCB-38	ND	1.66			PCB-88	ND	1.59	C	91
PCB-39	ND	1.77			PCB-89	ND	1.59		
PCB-40	ND	1.95			PCB-90	ND	1.38	C	101
PCB-41	ND	1.16	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	1.24	C	59	PCB-92	-	-	C084	84
PCB-43	ND	1.52	C	49	PCB-93	ND	1.91		
PCB-44	ND	1.70			PCB-94	ND	1.78		
PCB-45	ND	1.65			PCB-95	ND	1.61		
PCB-46	ND	1.73			PCB-96	ND	1.24		
PCB-47	ND	1.26			PCB-97	ND	1.33		
PCB-48	ND	1.20	C	75	PCB-98	ND	1.36	C	102
PCB-49	-	-	C043	43	PCB-99	ND	1.39		
PCB-50	ND	1.42			PCB-100	ND	1.49		

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EPA Method 1668
PCBs

FAL ID: 10051-001-MB
Client ID: Method Blank
Matrix: Solid
Batch No: X3816

Date Extracted: 08-17-2016
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-8-18-16
GC Column: DB1
Units: pg/g

Acquired: 08-19-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	1.52		
PCB-102	-	-	C098	98	PCB-152	ND	1.32		
PCB-103	ND	1.42			PCB-153	ND	1.28		
PCB-104	ND	1.10			PCB-154	ND	1.63		
PCB-105	ND	1.23			PCB-155	ND	1.19		
PCB-106	ND	1.08	C	118	PCB-156	ND	1.29		
PCB-107	ND	1.04	C	108	PCB-157	ND	1.26		
PCB-108	-	-	C107	107	PCB-158	ND	1.17	C	160
PCB-109	ND	1.17			PCB-159	ND	1.17		
PCB-110	ND	1.04			PCB-160	-	-	C158	158
PCB-111	ND	1.01	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.15			PCB-163	-	-	C138	138/164
PCB-114	ND	1.04			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	1.25		
PCB-117	-	-	C087	87/125	PCB-167	ND	1.25		
PCB-118	-	-	C106	106	PCB-168	ND	1.14		
PCB-119	ND	1.09			PCB-169	ND	1.68		
PCB-120	ND	1.07			PCB-170	ND	1.84		
PCB-121	ND	1.28			PCB-171	ND	1.50		
PCB-122	ND	1.08			PCB-172	ND	1.63		
PCB-123	ND	1.00			PCB-173	ND	1.67		
PCB-124	ND	1.12			PCB-174	ND	1.44		
PCB-125	-	-	C087	87/117	PCB-175	ND	1.36		
PCB-126	ND	1.99			PCB-176	ND	1.02		
PCB-127	ND	1.19			PCB-177	ND	1.58		
PCB-128	ND	1.40	C	162	PCB-178	ND	1.44		
PCB-129	ND	1.91			PCB-179	ND	0.962		
PCB-130	ND	1.84			PCB-180	ND	1.24		
PCB-131	ND	1.50	C	133	PCB-181	ND	1.41		
PCB-132	ND	1.33	C	161	PCB-182	ND	1.26	C	187
PCB-133	-	-	C131	131	PCB-183	ND	1.28		
PCB-134	ND	1.51	C	143	PCB-184	ND	0.919		
PCB-135	ND	1.40			PCB-185	ND	1.44		
PCB-136	ND	1.35			PCB-186	ND	1.01		
PCB-137	ND	1.54			PCB-187	-	-	C182	182
PCB-138	ND	1.15	C	163/164	PCB-188	ND	1.15		
PCB-139	ND	1.35	C	149	PCB-189	ND	1.50		
PCB-140	ND	1.43			PCB-190	ND	1.28		
PCB-141	ND	1.49			PCB-191	ND	1.22		
PCB-142	ND	1.70			PCB-192	ND	1.18		
PCB-143	-	-	C134	134	PCB-193	ND	1.13		
PCB-144	ND	1.44			PCB-194	ND	1.59		
PCB-145	ND	1.38			PCB-195	ND	1.72		
PCB-146	ND	1.25	C	165	PCB-196	ND	1.65	C	203
PCB-147	ND	1.39			PCB-197	ND	1.08		
PCB-148	ND	1.94			PCB-198	ND	1.64		
PCB-149	-	-	C139	139	PCB-199	ND	1.88		
PCB-150	ND	1.31			PCB-200	ND	1.16		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10051-001-MB
Client ID: Method Blank
Matrix: Solid
Batch No: X3816

Date Extracted: 08-17-2016
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-8-18-16
GC Column: DB1
Units: pg/g

Acquired: 08-19-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.16		
PCB-202	ND	1.15		
PCB-203	-	-	C196	196
PCB-204	ND	1.11		
PCB-205	ND	1.25		
PCB-206	ND	1.64		
PCB-207	ND	1.42		
PCB-208	ND	1.37		
PCB-209	ND	1.06		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	70.2	5.00 - 145	
13C-PCB-3	70.8	5.00 - 145	
13C-PCB-4	86.8	5.00 - 145	
13C-PCB-15	80.6	5.00 - 145	
13C-PCB-19	73.5	5.00 - 145	
13C-PCB-37	82.1	5.00 - 145	
13C-PCB-54	85.7	5.00 - 145	
13C-PCB-77	82.9	10.0 - 145	
13C-PCB-81	91.9	10.0 - 145	
13C-PCB-104	79.4	10.0 - 145	
13C-PCB-105	82.2	10.0 - 145	
13C-PCB-114	91.2	10.0 - 145	
13C-PCB-118	88.0	10.0 - 145	
13C-PCB-123	76.8	10.0 - 145	
13C-PCB-126	84.7	10.0 - 145	
13C-PCB-155	78.2	10.0 - 145	
13C-PCB-156	85.3	10.0 - 145	
13C-PCB-157	93.1	10.0 - 145	
13C-PCB-167	85.6	10.0 - 145	
13C-PCB-169	88.9	10.0 - 145	
13C-PCB-188	80.6	10.0 - 145	
13C-PCB-189	81.9	10.0 - 145	
13C-PCB-202	71.0	10.0 - 145	
13C-PCB-205	90.4	10.0 - 145	
13C-PCB-206	101	10.0 - 145	
13C-PCB-208	85.9	10.0 - 145	
13C-PCB-209	92.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	87.7	5.00 - 145	
13C-PCB-111	97.0	10.0 - 145	
13C-PCB-178	81.9	10.0 - 145	

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

Analyst: _____

Date: 8/23/2016

Reviewed By: _____

Date: 8/23/2016

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EPA Method 1668
PCBs

FAL ID: 10051-001-OPR
Client ID: OPR
Matrix: Solid
Batch No: X3816

Date Extracted: 08-17-2016
Date Received: NA
Amount: 5.00 g

ICal: DAILY209FAL4-8-18-16
GC Column: DB1
Units: ng/ml

Acquired: 08-19-2016

Compound	% Recovery	QC Limits	Qual
PCB-1	115	60.0 - 135	
PCB-3	115	60.0 - 135	
PCB-4	106	60.0 - 135	
PCB-15	98.2	60.0 - 135	
PCB-19	114	60.0 - 135	
PCB-37	101	60.0 - 135	
PCB-54	113	60.0 - 135	
PCB-77	119	60.0 - 135	
PCB-81	110	60.0 - 135	
PCB-104	116	60.0 - 135	
PCB-105	106	60.0 - 135	
PCB-114	114	60.0 - 135	
PCB-118	119	60.0 - 135	
PCB-123	98.8	60.0 - 135	
PCB-126	105	60.0 - 135	
PCB-155	116	60.0 - 135	
PCB-156	111	60.0 - 135	
PCB-157	114	60.0 - 135	
PCB-167	115	60.0 - 135	
PCB-169	121	60.0 - 135	
PCB-188	116	60.0 - 135	
PCB-189	113	60.0 - 135	
PCB-202	121	60.0 - 135	
PCB-205	108	60.0 - 135	
PCB-206	110	60.0 - 135	
PCB-208	110	60.0 - 135	
PCB-209	117	60.0 - 135	

Internal Standards	% Recovery	QC Limits	Qual
13C-PCB-1	63.7	15.0 - 145	
13C-PCB-3	67.3	15.0 - 145	
13C-PCB-4	77.2	15.0 - 145	
13C-PCB-15	76.5	15.0 - 145	
13C-PCB-19	65.6	15.0 - 145	
13C-PCB-37	77.1	15.0 - 145	
13C-PCB-54	75.7	15.0 - 145	
13C-PCB-77	77.3	40.0 - 145	
13C-PCB-81	86.0	40.0 - 145	
13C-PCB-104	69.4	40.0 - 145	
13C-PCB-105	79.9	40.0 - 145	
13C-PCB-114	80.4	40.0 - 145	
13C-PCB-118	76.6	40.0 - 145	
13C-PCB-123	70.1	40.0 - 145	
13C-PCB-126	79.3	40.0 - 145	
13C-PCB-155	71.3	40.0 - 145	
13C-PCB-156	77.6	40.0 - 145	
13C-PCB-157	82.4	40.0 - 145	
13C-PCB-167	80.5	40.0 - 145	
13C-PCB-169	79.6	40.0 - 145	
13C-PCB-188	70.8	40.0 - 145	
13C-PCB-189	78.4	40.0 - 145	
13C-PCB-202	67.3	40.0 - 145	
13C-PCB-205	79.5	40.0 - 145	
13C-PCB-206	89.1	40.0 - 145	
13C-PCB-208	72.5	40.0 - 145	
13C-PCB-209	81.3	40.0 - 145	

Cleanup Surrogate	% Recovery	QC limits	Qual
13C-PCB-28	88.4	15.0 - 145	
13C-PCB-111	91.5	40.0 - 145	
13C-PCB-178	76.2	40.0 - 145	

Analyst: _____

Date: 8/23/2016

Reviewed By: _____

Date: 8/23/2016

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EPA Method 1668
PCBs

FAL ID: 10051-001-SA
Client ID: LDW-BA-PC-ENRMATERIAL-GAC
Matrix: Solid
Batch No: X3816

Date Extracted: 08-17-2016
Date Received: 07-28-2016
Amount: 5.00 g
% Solids: 97.05

ICal: DAILY209FAL4-8-18-16
GC Column: DB1
Units: pg/g

Acquired: 08-19-2016
Total Conc: 34.7

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	0.688			PCB-51	ND	1.42		
PCB-2	ND	0.976			PCB-52	ND	1.16	C	69
PCB-3	ND	0.995			PCB-53	ND	1.42		
PCB-4	ND	0.904			PCB-54	ND	1.02		
PCB-5	ND	0.881			PCB-55	ND	1.13		
PCB-6	ND	0.888			PCB-56	ND	1.35	C	60
PCB-7	ND	0.903			PCB-57	ND	1.16		
PCB-8	ND	1.05			PCB-58	ND	1.11		
PCB-9	ND	0.933			PCB-59	-	-	C042	42
PCB-10	ND	0.930			PCB-60	-	-	C056	56
PCB-11	28.3	-	B		PCB-61	ND	1.08	C	70
PCB-12	ND	1.04			PCB-62	ND	1.25		
PCB-13	ND	1.17			PCB-63	ND	1.16		
PCB-14	ND	0.935			PCB-64	-	-	C041	41/71/72
PCB-15	ND	1.17			PCB-65	ND	1.15		
PCB-16	ND	1.29			PCB-66	ND	1.11	C	76
PCB-17	ND	1.46			PCB-67	ND	1.27		
PCB-18	ND	1.64			PCB-68	ND	1.12		
PCB-19	ND	1.54			PCB-69	-	-	C052	52
PCB-20	ND	1.49	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	1.50			PCB-72	-	-	C041	41/64/71
PCB-23	ND	1.45			PCB-73	ND	1.18		
PCB-24	ND	1.07			PCB-74	ND	1.14		
PCB-25	ND	1.25			PCB-75	-	-	C048	48
PCB-26	ND	1.60			PCB-76	-	-	C066	66
PCB-27	ND	1.16			PCB-77	ND	1.85		
PCB-28	3.38	-	J		PCB-78	ND	1.55		
PCB-29	ND	1.55			PCB-79	ND	1.46		
PCB-30	ND	1.09			PCB-80	ND	1.02		
PCB-31	2.97	-	J		PCB-81	ND	1.15		
PCB-32	ND	1.32			PCB-82	ND	1.78		
PCB-33	-	-	C020	20/21	PCB-83	ND	1.26	C	112
PCB-34	ND	1.76			PCB-84	ND	1.48	C	92
PCB-35	ND	1.82			PCB-85	ND	1.20	C	116
PCB-36	ND	1.68			PCB-86	ND	1.57		
PCB-37	ND	1.49			PCB-87	ND	1.12	C	117/125
PCB-38	ND	1.58			PCB-88	ND	1.33	C	91
PCB-39	ND	1.68			PCB-89	ND	1.48		
PCB-40	ND	1.92			PCB-90	ND	1.29	C	101
PCB-41	ND	1.15	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	1.23	C	59	PCB-92	-	-	C084	84
PCB-43	ND	1.51	C	49	PCB-93	ND	1.60		
PCB-44	ND	1.68			PCB-94	ND	1.49		
PCB-45	ND	1.63			PCB-95	ND	1.35		
PCB-46	ND	1.71			PCB-96	ND	1.03		
PCB-47	ND	1.24			PCB-97	ND	1.24		
PCB-48	ND	1.19	C	75	PCB-98	ND	1.14	C	102
PCB-49	-	-	C043	43	PCB-99	ND	1.30		
PCB-50	ND	1.41			PCB-100	ND	1.24		

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EPA Method 1668
PCBs

FAL ID: 10051-001-SA
Client ID: LDW-BA-PC-ENRMATERIAL-GAC
Matrix: Solid
Batch No: X3816

Date Extracted: 08-17-2016
Date Received: 07-28-2016
Amount: 5.00 g
% Solids: 97.05

ICal: DAILY209FAL4-8-18-16
GC Column: DB1
Units: pg/g

Acquired: 08-19-2016

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	1.27		
PCB-102	-	-	C098	98	PCB-152	ND	0.880		
PCB-103	ND	1.18			PCB-153	ND	1.07		
PCB-104	ND	0.920			PCB-154	ND	1.08		
PCB-105	ND	1.15			PCB-155	ND	0.793		
PCB-106	ND	0.985	C	118	PCB-156	ND	0.978		
PCB-107	ND	1.03	C	108	PCB-157	ND	1.08		
PCB-108	-	-	C107	107	PCB-158	ND	0.978	C	160
PCB-109	ND	1.09			PCB-159	ND	0.975		
PCB-110	ND	0.974			PCB-160	-	-	C158	158
PCB-111	ND	0.937	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	1.08			PCB-163	-	-	C138	138/164
PCB-114	ND	1.13			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	1.04		
PCB-117	-	-	C087	87/125	PCB-167	ND	0.943		
PCB-118	-	-	C106	106	PCB-168	ND	0.952		
PCB-119	ND	1.01			PCB-169	ND	1.64		
PCB-120	ND	0.998			PCB-170	ND	1.98		
PCB-121	ND	1.07			PCB-171	ND	1.62		
PCB-122	ND	1.06			PCB-172	ND	1.75		
PCB-123	ND	1.01			PCB-173	ND	1.80		
PCB-124	ND	1.10			PCB-174	ND	1.54		
PCB-125	-	-	C087	87/117	PCB-175	ND	1.47		
PCB-126	ND	1.79			PCB-176	ND	1.10		
PCB-127	ND	1.17			PCB-177	ND	1.70		
PCB-128	ND	1.17	C	162	PCB-178	ND	1.55		
PCB-129	ND	1.60			PCB-179	ND	1.03		
PCB-130	ND	1.53			PCB-180	ND	1.33		
PCB-131	ND	1.25	C	133	PCB-181	ND	1.51		
PCB-132	ND	1.11	C	161	PCB-182	ND	1.36	C	187
PCB-133	-	-	C131	131	PCB-183	ND	1.38		
PCB-134	ND	1.26	C	143	PCB-184	ND	0.988		
PCB-135	ND	1.17			PCB-185	ND	1.55		
PCB-136	ND	0.898			PCB-186	ND	1.08		
PCB-137	ND	1.28			PCB-187	-	-	C182	182
PCB-138	ND	0.965	C	163/164	PCB-188	ND	1.03		
PCB-139	ND	1.13	C	149	PCB-189	ND	1.48		
PCB-140	ND	1.20			PCB-190	ND	1.37		
PCB-141	ND	1.25			PCB-191	ND	1.31		
PCB-142	ND	1.42			PCB-192	ND	1.27		
PCB-143	-	-	C134	134	PCB-193	ND	1.21		
PCB-144	ND	1.20			PCB-194	ND	1.27		
PCB-145	ND	0.917			PCB-195	ND	1.38		
PCB-146	ND	1.04	C	165	PCB-196	ND	1.66	C	203
PCB-147	ND	1.16			PCB-197	ND	1.09		
PCB-148	ND	1.29			PCB-198	ND	1.66		
PCB-149	-	-	C139	139	PCB-199	ND	1.89		
PCB-150	ND	0.870			PCB-200	ND	1.17		

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EPA Method 1668
PCBs

FRONTIER ANALYTICAL LABORATORY

FAL ID: 10051-001-SA
Client ID: LDW-BA-PC-ENRMATERIAL-GAC
Matrix: Solid
Batch No: X3816

Date Extracted: 08-17-2016
Date Received: 07-28-2016
Amount: 5.00 g
% Solids: 97.05

ICal: DAILY209FAL4-8-18-16
GC Column: DB1
Units: pg/g

Acquired: 08-19-2016

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	1.17		
PCB-202	ND	1.15		
PCB-203	-	-	C196	196
PCB-204	ND	1.12		
PCB-205	ND	1.00		
PCB-206	ND	1.05		
PCB-207	ND	0.914		
PCB-208	ND	0.887		
PCB-209	ND	0.676		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	71.9	5.00 - 145	
13C-PCB-3	67.4	5.00 - 145	
13C-PCB-4	84.0	5.00 - 145	
13C-PCB-15	76.2	5.00 - 145	
13C-PCB-19	69.7	5.00 - 145	
13C-PCB-37	72.6	5.00 - 145	
13C-PCB-54	83.2	5.00 - 145	
13C-PCB-77	76.6	10.0 - 145	
13C-PCB-81	84.7	10.0 - 145	
13C-PCB-104	75.8	10.0 - 145	
13C-PCB-105	82.3	10.0 - 145	
13C-PCB-114	81.8	10.0 - 145	
13C-PCB-118	85.7	10.0 - 145	
13C-PCB-123	72.4	10.0 - 145	
13C-PCB-126	78.6	10.0 - 145	
13C-PCB-155	80.2	10.0 - 145	
13C-PCB-156	83.7	10.0 - 145	
13C-PCB-157	92.7	10.0 - 145	
13C-PCB-167	88.6	10.0 - 145	
13C-PCB-169	84.4	10.0 - 145	
13C-PCB-188	80.5	10.0 - 145	
13C-PCB-189	81.0	10.0 - 145	
13C-PCB-202	72.0	10.0 - 145	
13C-PCB-205	93.2	10.0 - 145	
13C-PCB-206	109	10.0 - 145	
13C-PCB-208	88.9	10.0 - 145	
13C-PCB-209	102	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	87.2	5.00 - 145	
13C-PCB-111	94.6	10.0 - 145	
13C-PCB-178	84.2	10.0 - 145	

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

Analyst: _____

Date: 8/23/16

Reviewed By: _____

Date: 8/23/16

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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.: 10051

Temperature: 24 °C

Chain of Custody

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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 #: 3102A
Contact Name: Gretchen Heavner	Contact Name: Jessica Youngblood	P.O. #: C01310643S
Address: 601 Union St, Suite 600 Seattle, WA 98101	Address: 3500 188th St SW Suite 601 Lynnwood WA 98037	Project #: LY15160310
Phone: 206-292-2078 Fax:	Phone: 425-921-4008 Fax:	Project Name: LDW ENRIAC Pilot Study
Email: gretchen.heavner@floydsnider.com	Email: jessica.youngblood@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	EDP Format should be as developed w/ Floyd/Snider & Seyler Data Solutions
☒ EDD: ☐ FAL Basic ☐ Geotracker ☒ Other: FSI ☐ Custom: Contact FAL	☒ CD (.pdf including EDDs if requested)	
	☒ Email (.pdf including EDDs if requested)	

☐ California State Drinking Water Form

System #: Source #:

Sampler: Employer:

	Sample ID	Date Collected	Time	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-PC-ENRMATERIAL-GAC	7/25/16	1355	Carbon									X			Material sample not @ room temp as it is not an environmental sample. * please contact w/ any questions.
2																
3																
4																
5																
6																
7																
8																
9																
10																
11	Jessica to Kathy - Hold sample.															
12																
13	Jessica to Kathy - Sample off hold. 8/4/16. KZ															
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
[signature]	7/25/16	1410	Kathy Zopp KZopp	7-28-16	1255

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: **10051**

Client:	Floyd | Snider
Client Project ID:	LY15160310
Date Received:	07/28/2016
Time Received:	12:55 pm
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	1
Duplicates:	1
Storage Location:	R3

Method of Delivery:	Fed-Ex
Tracking Number:	776837947760
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	24
Cooling Method	Other
Chain Of Custody Present?	Yes
Return Shipping Container To Client	No
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A

Anomalies or additional comments:

Please note that this sample was received at a temperature of 24 degrees Celsius which is outside of the method recommended sample receipt temperature range. Although dioxins/furans and PCBs are considered to be very stable at ambient room temperatures, we are required by NELAP to report this anomaly to you.

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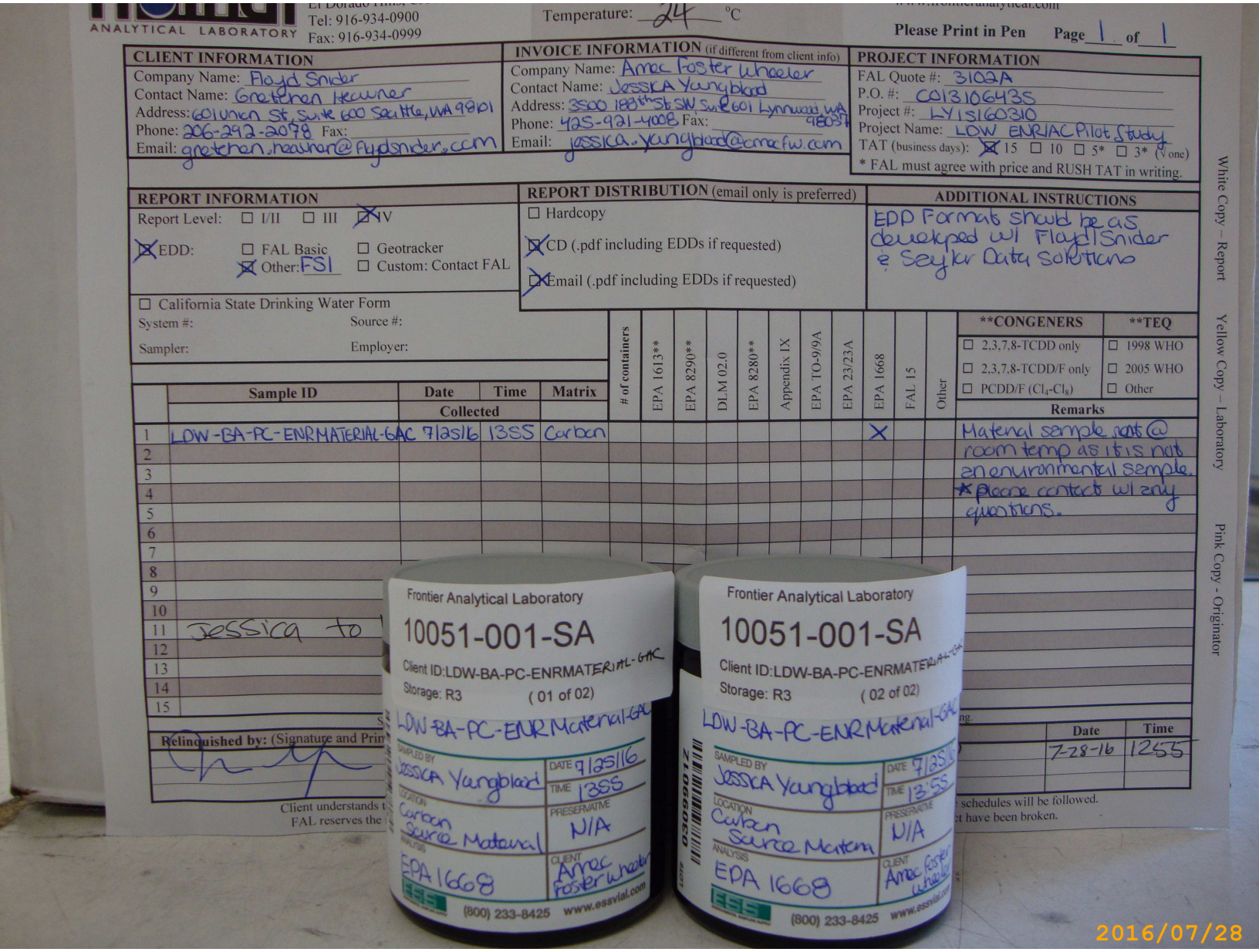

ANALYTICAL LABORATORY
El Dorado Hills, CA
Tel: 916-934-0900
Fax: 916-934-0999

Temperature: 24 °C

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Please Print in Pen Page 1 of 1

CLIENT INFORMATION
Company Name: Floyd Snider
Contact Name: Gretchen Heavner
Address: 601 Union St, Suite 600 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: Jessica Youngblood
Address: 3500 188th St SW, Suite 601 Lynnwood, WA 98037
Phone: 425-921-4008 Fax:
Email: jessica.youngblood@amecfw.com

PROJECT INFORMATION
FAL Quote #: 3102A
P.O. #: C01310643S
Project #: LY15160310
Project Name: LDW ENRIAC Pilot Study
TAT (business days): ☒ 15 ☐ 10 ☐ 5* ☐ 3* (Y one)
* FAL must agree with price and RUSH TAT in writing.

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

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

ADDITIONAL INSTRUCTIONS
EDD Formats should be as developed w/ Floyd|Snider & Seyler Data Solutions

	Sample ID	Date Collected	Time	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	LDW-BA-PC-ENRMATERIAL-GAC	7/25/16	1355	Carbon									X			Material sample rest @ room temp as it is not an environmental sample. * please contact w/ any questions.
2																
3																
4																
5																
6																
7																
8																
9																
10																
11	Jessica to															
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

Relinquished by: (Signature and Prin

	Date	Time
	7-28-16	1255

Client understands t
FAL reserves the
schedules will be followed.
t have been broken.

Frontier Analytical Laboratory
10051-001-SA
Client ID:LDW-BA-PC-ENRMATERIAL-GAC
Storage: R3 (01 of 02)
LDW-BA-PC-ENR Material-GAC
SAMPLED BY Jessica Youngblood
DATE 7/25/16
TIME 1355
LOCATION Carbon Source Material
PRESERVATIVE N/A
ANALYSIS EPA 1668
CLIENT Amec Foster Wheeler
ESS (800) 233-8425 www.essvial.com

Frontier Analytical Laboratory
10051-001-SA
Client ID:LDW-BA-PC-ENRMATERIAL-GAC
Storage: R3 (02 of 02)
LDW-BA-PC-ENR Material-GAC
SAMPLED BY Jessica Youngblood
DATE 7/25/16
TIME 1355
LOCATION Carbon Source Material
PRESERVATIVE N/A
ANALYSIS EPA 1668
CLIENT Amec Foster Wheeler
ESS (800) 233-8425 www.essvial.com

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Yellow Copy – Laboratory
Pink Copy - Originator

2016/07/28

Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #:	10051	Sample #:	1	Client Manager:	BS
Client:	Floyd | Snider			Hold Time:	07/25/2017
Matrix:	Solid	Extraction Batch:	original=3801 Rx@2grams=3814 Rx²@5grams=3816 Tol soxhlet	Due Date:	08/19/2016
Method:	EPA 1668 PCB			Storage:	R3
SOP:	SOPs: EP1A Rev.9 IP1A Rev.6				

COMMENTS/INSTRUCTIONS:

Results: 10051X

Instrument:
DB5 ____
DB225 ____
DB1 PALy
Other ____

Extract/s located in box: "Alive"

Standards: 10095 QC 10051

Sample #	Sample		Extract		Extract	
	Sample Control -- Prep		Prep -- Instrument		Instrument -- Storage	
	Initial	Date	Initial	Date	Initial	Date
10051-001-X002-SA						
10051-001-0001-SA						

Frontier Analytical Laboratory
Percent Solids

FAL Project: 10051

Sample ID	Chemist	Date	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	5g ~~10g~~ Equiv	Wet Wt Oven Temp	Dry Wt Oven Temp	Boat Wt (gms)
10051-001-0001-SA	RP	8-8-16	3.05g	2.96g	97.05%	5.15g	114°c	115°c	1.27g

% Solids Summary:

Non-Filtered Determination

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

Filtered Determination

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

% Solids calculation

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

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

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 10051 Extraction Date: 2016-08-17 Extraction Chemist: DV

Method/Analysis: EPA 1668 PCB

Procedure: SOX/SDS Solvent: Toluene

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS Amt: 10.0uL ID: R160602A Vial: 3 Chemist/Witness/Date	NS Amt: 10.0uL ID: 160705A Vial: 1 Chemist/Witness/Date	CSS Amt: 10.0uL ID: R160707A Vial: 1 Chemist/Witness/Date
03816-001-0001-MB	(5.00g)	(5.00g)	DN RR 8.17.16	N/A	DN KH 8.18.16
03816-001-0001-OPR	(5.00g)	(5.00g)		DN RR 8.17.16	
10051-001-X003-SA	5.15g	5.00g		N/A	

AX-21 Charcoal Cleaned	130410	Acetone	158570	Acid Alumina	A0347591	Hexane	161098
Methanol	161218	Methylene Chloride (DCM)	161693	Silica Gel	TA1975634	Sodium Hydroxide 1N	151965
Sodium Sulfate	16B100005	Sulfuric Acid	158403	Tetradecane	157561	Toluene	56097
Water	162916	C-18 Empore Discs	320850D	Cyclohexane	55211		

Comments:

Frontier Analytical Laboratory
CLEANUP SHEET

Project #: 10051

Method/Analysis: EPA 1668 PCB

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

Sample ID	Cleanup 1 PCB · MSG Chemist/Date	Cleanup 2 N/A Chemist/Date	Cleanup 3 N/A Chemist/Date	RS Amt: 10.0uL ID: 160812A Vial: 1 Chemist/Witness/Date
03816-001-0001-MB	DN 8.18.16	N/A	N/A	DN 8.18.16
03816-001-0001-OPR	↓	↓	↓	↓
10051-001-X003-SA	↓	↓	↓	↓

AX-21 Charcoal Cleaned	130410	Acetone	158570	Acid Alumina	A0347591	Hexane	161098
Methanol	161218	Methylene Chloride (DCM)	161693	Silica Gel	TA1975634	Sodium Hydroxide 1N	151965
Sodium Sulfate	16B100005	Sulfuric Acid	158403	Tetradecane	157561	Toluene	56097
Water	162916	C-18 Empore Discs	320850D	Cyclohexane	55211		

Comments:

FAL ID: 03816-001-0001-MB Filename: 18AUG16Z Sam:10 Acquired: 19-AUG-16 01:50:28 ICal: DAILY209FAL4-8-18-16
Client ID: Method Blank ConCal: ST081816Z1 EndCal: ST081816Z2
Results: 10051X GC Column: DB1 Amount: 5.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec	
PCB-1	*	*	n	NotFnd	1.04	*		356	211	1.13		
13C-PCB-1	1.64e+07	3.10	y	14:29	1.11	1400					70.2	
PCB-2	*	*	n	NotFnd	0.90	*		356	211	1.12		
PCB-3	*	*	n	NotFnd	1.07	*		356	211	0.773		
13C-PCB-3	1.53e+07	3.07	y	16:59	1.03	1420					70.8	
PCB-4	*	*	n	NotFnd	1.22	*		321	456	1.18		
PCB-10	*	*	n	NotFnd	1.42	*		321	456	1.10		
13C-PCB-4	1.05e+07	1.62	y	18:10	0.58	1740					86.8	
PCB-9	*	*	n	NotFnd	1.42	*		321	456	1.10		
PCB-7	*	*	n	NotFnd	1.46	*		321	456	1.07		
PCB-6	*	*	n	NotFnd	1.49	*		321	456	1.05		
PCB-8	*	*	n	NotFnd	1.26	*		321	456	1.23		
PCB-5	*	*	n	NotFnd	1.50	*		321	456	1.04		
PCB-14	*	*	n	NotFnd	1.41	*		321	456	1.10		
PCB-11	4.17e+04	1.49	y	23:09	1.21	5.44		-	-	*		
PCB-13	*	*	n	NotFnd	1.13	*		321	456	1.39		
PCB-12	*	*	n	NotFnd	1.28	*		321	456	1.22		
PCB-15	*	*	n	NotFnd	1.26	*		321	456	1.30		
13C-PCB-15	1.50e+07	1.58	y	23:46	0.88	1610					80.6	
PCB-19	*	*	n	NotFnd	1.07	*		308	274	1.21		
PCB-30	*	*	n	NotFnd	1.51	*		308	274	0.855		
PCB-18	*	*	n	NotFnd	1.00	*		308	274	1.29		
PCB-17	*	*	n	NotFnd	1.13	*		308	274	1.15		
PCB-27	*	*	n	NotFnd	1.41	*		308	274	0.913		
PCB-24	*	*	n	NotFnd	1.54	*		308	274	0.839		
PCB-16	*	*	n	NotFnd	1.27	*		308	274	1.02		
PCB-32	*	*	n	NotFnd	1.25	*		308	274	1.03		
13C-PCB-19	9.10e+06	1.17	y	22:03	0.59	1470					73.5	
13C-PCB-9	2.10e+07	1.61	y	19:53	-	4.32						
PCB-34	*	*	n	NotFnd	1.08	*		256	179	1.84		
PCB-23	*	*	n	NotFnd	1.30	*		256	179	1.53		
PCB-29	*	*	n	NotFnd	1.22	*		256	179	1.63		
PCB-26	*	*	n	NotFnd	1.18	*		256	179	1.68		
PCB-25	*	*	n	NotFnd	1.51	*		256	179	1.31		
PCB-31	*	*	n	NotFnd	1.18	*		256	179	1.68		
PCB-28	*	*	n	NotFnd	1.49	*		256	179	1.33		
PCB-20	*	*	n	NotFnd	1.27	*		256	179	1.57		Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.27	*		256	179	1.57		Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.27	*		256	179	1.57		Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.26	*		256	179	1.57		
PCB-36	*	*	n	NotFnd	1.13	*		256	179	1.76		
PCB-39	*	*	n	NotFnd	1.13	*		256	179	1.77		
PCB-38	*	*	n	NotFnd	1.19	*		256	179	1.66		
PCB-35	*	*	n	NotFnd	1.04	*		256	179	1.91		
PCB-37	*	*	n	NotFnd	1.27	*		256	179	1.57		
13C-PCB-37	1.11e+07	1.10	y	30:28	1.22	1640					82.1	

PCB-54	*	*	n	NotFnd	1.08	*	316	352	1.04	
PCB-50	*	*	n	NotFnd	0.79	*	316	352	1.42	
PCB-53	*	*	n	NotFnd	0.78	*	316	352	1.44	
PCB-51	*	*	n	NotFnd	0.78	*	316	352	1.44	
PCB-45	*	*	n	NotFnd	0.68	*	316	352	1.65	
PCB-46	*	*	n	NotFnd	0.65	*	316	352	1.73	
PCB-52	*	*	n	NotFnd	0.95	*	316	352	1.17	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	0.95	*	316	352	1.17	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	0.94	*	316	352	1.19	
PCB-43	*	*	n	NotFnd	0.73	*	316	352	1.52	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.73	*	316	352	1.52	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.89	*	316	352	1.26	
PCB-48	*	*	n	NotFnd	0.93	*	316	352	1.20	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	0.93	*	316	352	1.20	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.96	*	316	352	1.17	
PCB-62	*	*	n	NotFnd	0.88	*	316	352	1.26	
PCB-44	*	*	n	NotFnd	0.66	*	316	352	1.70	
PCB-42	*	*	n	NotFnd	0.90	*	316	352	1.24	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.90	*	316	352	1.24	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	0.96	*	316	352	1.16	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	0.96	*	316	352	1.16	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	0.96	*	316	352	1.16	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	0.96	*	316	352	1.16	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	0.99	*	316	352	1.13	
PCB-40	*	*	n	NotFnd	0.57	*	316	352	1.95	
PCB-57	*	*	n	NotFnd	0.95	*	316	352	1.17	
PCB-67	*	*	n	NotFnd	0.87	*	316	352	1.28	
PCB-58	*	*	n	NotFnd	1.00	*	316	352	1.12	
PCB-63	*	*	n	NotFnd	0.95	*	316	352	1.18	
PCB-74	*	*	n	NotFnd	0.97	*	316	352	1.15	
PCB-61	*	*	n	NotFnd	1.02	*	316	352	1.09	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.02	*	316	352	1.09	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.00	*	316	352	1.12	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.00	*	316	352	1.12	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.08	*	316	352	1.04	
PCB-55	*	*	n	NotFnd	0.98	*	316	352	1.14	
13C-PCB-54	1.18e+07	0.78	y	25:34	1.24	1710				85.7
PCB-104	*	*	n	NotFnd	1.14	*	209	256	1.10	
PCB-96	*	*	n	NotFnd	1.01	*	209	256	1.24	
PCB-103	*	*	n	NotFnd	0.88	*	209	256	1.42	
PCB-100	*	*	n	NotFnd	0.84	*	209	256	1.49	
PCB-94	*	*	n	NotFnd	0.70	*	209	256	1.78	
PCB-98	*	*	n	NotFnd	0.92	*	209	256	1.36	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.92	*	209	256	1.36	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.78	*	209	256	1.61	
PCB-93	*	*	n	NotFnd	0.65	*	209	256	1.91	
PCB-88	*	*	n	NotFnd	0.79	*	209	256	1.59	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.79	*	209	256	1.59	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.98	*	209	256	1.28	
13C-PCB-104	7.66e+06	1.62	y	29:60	0.87	1590				79.4
13C-PCB-28	1.43e+07	1.10	y	26:40	1.47	1750				87.7
13C-PCB-52	1.11e+07	0.79	y	28:55	-	3.99				

PCB-56	*	*	n	NotFnd	1.24	*	189	245	1.43	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.24	*	189	245	1.43	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.14	*	189	245	1.55	
PCB-78	*	*	n	NotFnd	1.08	*	189	245	1.65	
PCB-81	*	*	n	NotFnd	1.18	*	189	245	1.28	
13C-PCB-81	1.01e+07	0.79	y	36:10	1.07	1840				91.9
PCB-77	*	*	n	NotFnd	1.08	*	189	245	1.90	
13C-PCB-77	9.22e+06	0.79	y	36:45	1.09	1660				82.9
PCB-155	*	*	n	NotFnd	1.07	*	272	260	1.19	
PCB-150	*	*	n	NotFnd	0.98	*	272	260	1.31	
PCB-152	*	*	n	NotFnd	0.97	*	272	260	1.32	
PCB-145	*	*	n	NotFnd	0.93	*	272	260	1.38	
PCB-136	*	*	n	NotFnd	0.95	*	272	260	1.35	
PCB-148	*	*	n	NotFnd	0.66	*	272	260	1.94	
PCB-154	*	*	n	NotFnd	0.79	*	272	260	1.63	
13C-PCB-155	8.50e+06	1.28	y	34:09	1.06	1560				78.2
13C-PCB-111	1.12e+07	1.63	y	36:15	1.13	1940				97.0
13C-PCB-101	1.02e+07	1.57	y	34:36	-	4.13				
PCB-84	*	*	n	NotFnd	0.84	*	206	213	1.59	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.84	*	206	213	1.59	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.84	*	206	213	1.59	
PCB-90	*	*	n	NotFnd	0.96	*	206	213	1.38	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.96	*	206	213	1.38	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.15	*	206	213	1.15	
PCB-99	*	*	n	NotFnd	0.96	*	206	213	1.39	
PCB-119	*	*	n	NotFnd	1.22	*	206	213	1.09	
PCB-83	*	*	n	NotFnd	0.99	*	206	213	1.35	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.99	*	206	213	1.35	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.14	*	206	213	1.17	
PCB-97	*	*	n	NotFnd	1.00	*	206	213	1.33	
PCB-86	*	*	n	NotFnd	0.79	*	206	213	1.68	
PCB-125	*	*	n	NotFnd	1.11	*	206	213	1.20	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.11	*	206	213	1.20	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.11	*	206	213	1.20	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.32	*	206	213	1.01	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.32	*	206	213	1.01	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	1.03	*	206	213	1.29	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	1.03	*	206	213	1.29	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.24	*	206	213	1.07	
PCB-110	*	*	n	NotFnd	1.27	*	206	213	1.04	
PCB-82	*	*	n	NotFnd	0.70	*	206	213	1.91	
PCB-124	*	*	n	NotFnd	1.10	*	141	244	1.12	
PCB-108	*	*	n	NotFnd	1.17	*	141	244	1.04	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.17	*	141	244	1.04	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.24	*	141	244	1.00	
13C-PCB-123	7.48e+06	1.57	y	38:17	1.09	1540				76.8
PCB-118	*	*	n	NotFnd	1.08	*	141	244	1.08	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.08	*	141	244	1.08	Co-elute PCB 118
13C-PCB-118	9.29e+06	1.58	y	38:29	1.19	1760				88.0
PCB-114	*	*	n	NotFnd	1.08	*	141	244	1.04	
13C-PCB-114	9.05e+06	1.64	y	39:05	1.11	1820				91.2
PCB-122	*	*	n	NotFnd	1.13	*	141	244	1.08	
PCB-105	*	*	n	NotFnd	1.13	*	141	244	1.23	
13C-PCB-105	8.32e+06	1.61	y	39:55	1.14	1640				82.2

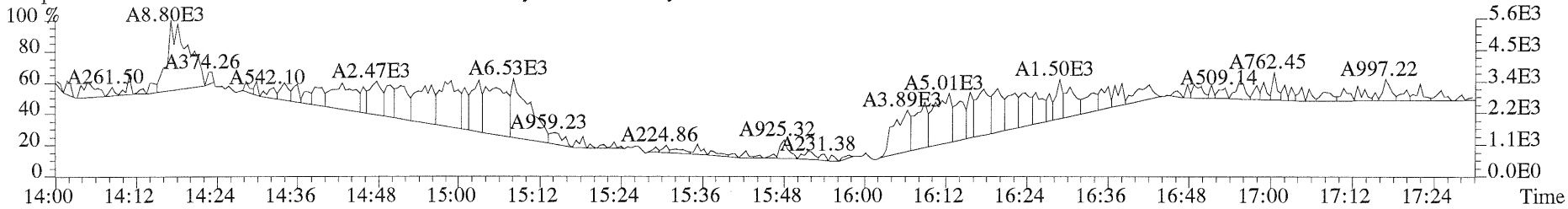
PCB-127	*	*	n	NotFnd	1.03	*		141	244	1.19	
PCB-126	*	*	n	NotFnd	1.14	*		141	244	1.99	
13C-PCB-126	7.34e+06	1.61	y	42:06	0.97	1690					84.7
PCB-151	*	*	n	NotFnd	0.86	*		202	204	1.52	
PCB-135	*	*	n	NotFnd	0.94	*		202	204	1.40	
PCB-144	*	*	n	NotFnd	0.91	*		202	204	1.44	
PCB-147	*	*	n	NotFnd	0.94	*		202	204	1.39	
PCB-139	*	*	n	NotFnd	0.97	*		202	204	1.35	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.97	*		202	204	1.35	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.92	*		202	204	1.43	
PCB-143	*	*	n	NotFnd	0.87	*		202	204	1.51	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.87	*		202	204	1.51	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.88	*		202	204	1.50	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.88	*		202	204	1.50	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.77	*		202	204	1.70	
PCB-165	*	*	n	NotFnd	1.05	*		202	204	1.25	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.05	*		202	204	1.25	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	0.99	*		202	204	1.33	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	0.99	*		202	204	1.33	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	1.02	*		202	204	1.28	
PCB-168	*	*	n	NotFnd	1.15	*		202	204	1.14	
PCB-141	*	*	n	NotFnd	0.88	*		202	204	1.49	
PCB-137	*	*	n	NotFnd	0.86	*		202	204	1.54	
PCB-130	*	*	n	NotFnd	0.71	*		202	204	1.84	
PCB-138	*	*	n	NotFnd	1.14	*		202	204	1.15	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.14	*		202	204	1.15	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.14	*		202	204	1.15	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.12	*		202	204	1.17	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.12	*		202	204	1.17	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.69	*		202	204	1.91	
PCB-166	*	*	n	NotFnd	1.05	*		202	204	1.25	
PCB-159	*	*	n	NotFnd	1.13	*		202	204	1.17	
PCB-128	*	*	n	NotFnd	0.94	*		202	204	1.40	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.94	*		202	204	1.40	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	0.96	*		202	204	1.25	
13C-PCB-167	8.73e+06	1.29	y	43:24	1.14	1710					85.6
PCB-156	*	*	n	NotFnd	1.04	*		202	204	1.29	
13C-PCB-156	8.14e+06	1.29	y	44:38	1.07	1710					85.3
PCB-157	*	*	n	NotFnd	0.96	*		202	204	1.26	
13C-PCB-157	9.01e+06	1.26	y	44:52	1.09	1860					93.1
PCB-169	*	*	n	NotFnd	0.92	*		202	204	1.68	
13C-PCB-169	7.32e+06	1.26	y	46:46	0.92	1780					88.9

FAL ID: 03816-001-0001-MB Filename: 18AUG16Z Sam:10 Acquired: 19-AUG-16 01:50:28 ICal: DAILY209FAL4-8-18-16
Client ID: Method Blank ConCal: ST081816Z1 EndCal: ST081816Z2
Results: 10051X GC Column: DB1 Amount: 5.000

PCB-188	*	*	n	NotFnd	1.12	*	308	268	1.15	
13C-PCB-188	8.95e+06	1.07	y	39:38	1.25	1610				80.6
PCB-184	*	*	n	NotFnd	1.35	*	233	208	0.919	
PCB-179	*	*	n	NotFnd	1.29	*	233	208	0.962	
PCB-176	*	*	n	NotFnd	1.22	*	233	208	1.02	
PCB-186	*	*	n	NotFnd	1.23	*	233	208	1.01	
PCB-178	*	*	n	NotFnd	0.86	*	233	208	1.44	
PCB-175	*	*	n	NotFnd	0.91	*	233	208	1.36	
PCB-187	*	*	n	NotFnd	0.99	*	233	208	1.26	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.99	*	233	208	1.26	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.97	*	233	208	1.28	
PCB-185	*	*	n	NotFnd	0.86	*	233	208	1.44	
PCB-174	*	*	n	NotFnd	0.87	*	233	208	1.44	
PCB-181	*	*	n	NotFnd	0.89	*	233	208	1.41	
PCB-177	*	*	n	NotFnd	0.79	*	233	208	1.58	
PCB-171	*	*	n	NotFnd	0.83	*	233	208	1.50	
PCB-173	*	*	n	NotFnd	0.74	*	233	208	1.67	
PCB-172	*	*	n	NotFnd	0.76	*	233	208	1.63	
PCB-192	*	*	n	NotFnd	1.05	*	233	208	1.18	
PCB-180	*	*	n	NotFnd	1.01	*	233	208	1.24	
PCB-193	*	*	n	NotFnd	1.11	*	233	208	1.13	
PCB-191	*	*	n	NotFnd	1.02	*	233	208	1.22	
PCB-170	*	*	n	NotFnd	0.68	*	233	208	1.84	
PCB-190	*	*	n	NotFnd	0.97	*	233	208	1.28	
PCB-189	*	*	n	NotFnd	1.09	*	233	208	1.50	
13C-PCB-189	5.96e+06	1.11	y	48:23	0.82	1640				81.9
PCB-202	*	*	n	NotFnd	1.00	*	140	156	1.15	
PCB-201	*	*	n	NotFnd	0.99	*	140	156	1.16	
PCB-204	*	*	n	NotFnd	1.03	*	140	156	1.11	
PCB-197	*	*	n	NotFnd	1.06	*	140	156	1.08	
PCB-200	*	*	n	NotFnd	0.99	*	140	156	1.16	
PCB-198	*	*	n	NotFnd	0.70	*	140	156	1.64	
PCB-199	*	*	n	NotFnd	0.61	*	140	156	1.88	
PCB-203	*	*	n	NotFnd	0.70	*	140	156	1.65	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.70	*	140	156	1.65	Co-elute PCB 203
13C-PCB-202	5.64e+06	0.95	y	44:44	0.89	1420				71.0
13C-PCB-178	5.90e+06	1.07	y	42:16	0.81	1640				81.9
13C-PCB-138	8.91e+06	1.28	y	41:30	-	4.24				
PCB-195	*	*	n	NotFnd	0.75	*	202	255	1.72	
PCB-194	*	*	n	NotFnd	0.81	*	202	255	1.59	
PCB-205	*	*	n	NotFnd	1.03	*	202	255	1.25	
13C-PCB-205	6.30e+06	0.90	y	50:02	1.25	1810				90.4
PCB-208	*	*	n	NotFnd	0.92	*	256	252	1.37	
13C-PCB-208	6.57e+06	0.79	y	49:06	1.37	1720				85.9
PCB-207	*	*	n	NotFnd	1.01	*	256	252	1.42	
PCB-206	*	*	n	NotFnd	0.99	*	256	252	1.64	
13C-PCB-206	5.15e+06	0.79	y	51:14	0.92	2020				101
PCB-209	*	*	n	NotFnd	1.07	*	240	236	1.06	
13C-PCB-209	7.34e+06	1.21	y	52:24	1.43	1840				92.1
13C-PCB-194	5.57e+06	0.93	y	49:48	-	4.01				

Analyst: _____ Date: 8/23/16

File:18AUG16Z #1-901 Acq:19-AUG-2016 01:50:28 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:03816-001-0001-MB File Text:Frontier Analytical Laboratory



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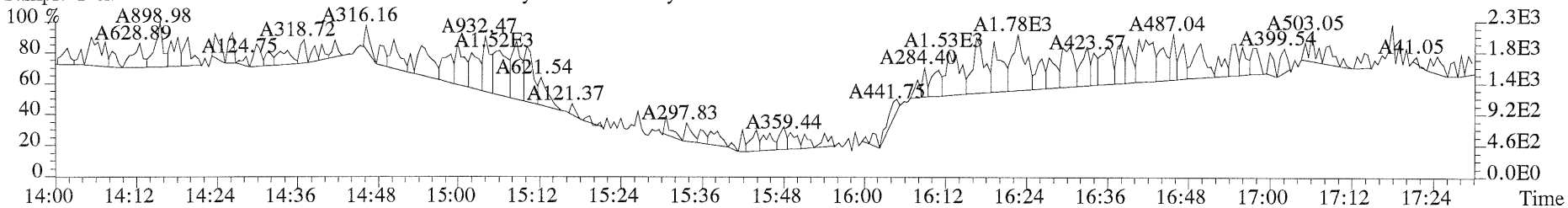

File:18AUG16Z #1-901 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
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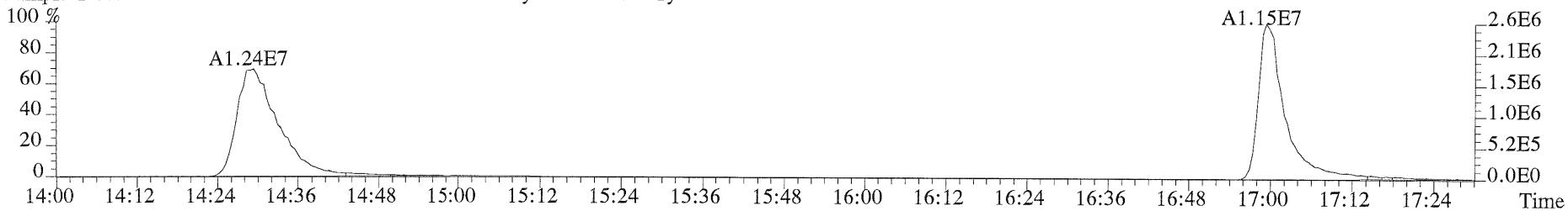
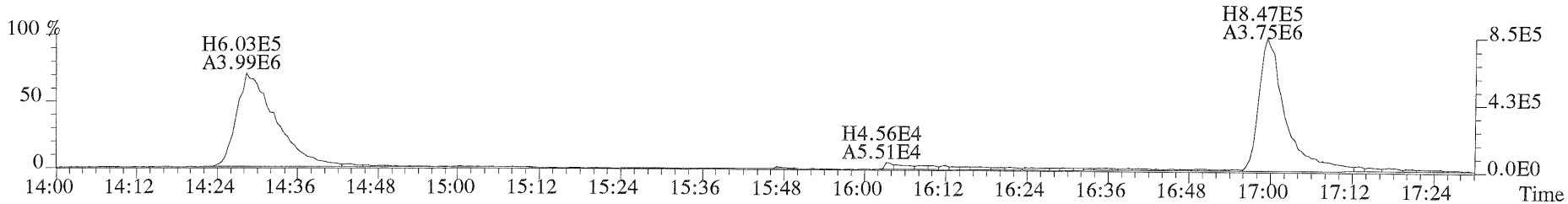
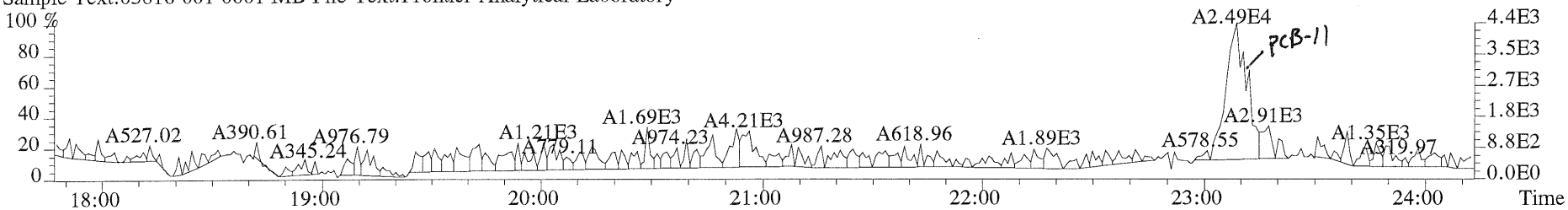


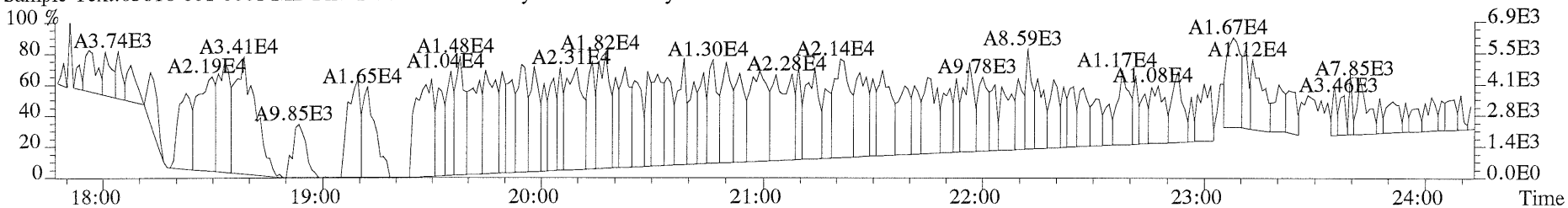
File:18AUG16Z #1-901 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:10 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



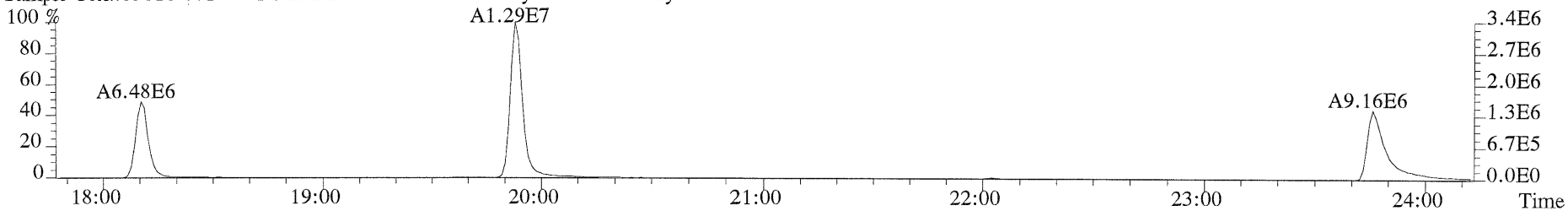
File:18AUG16Z #1-509 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



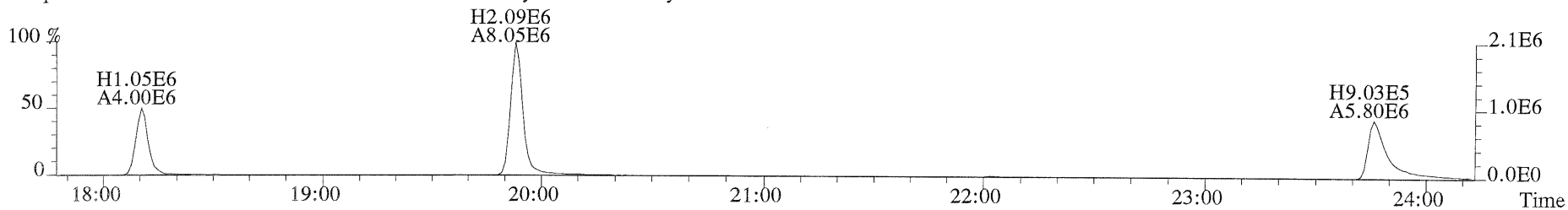
File:18AUG16Z #1-509 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



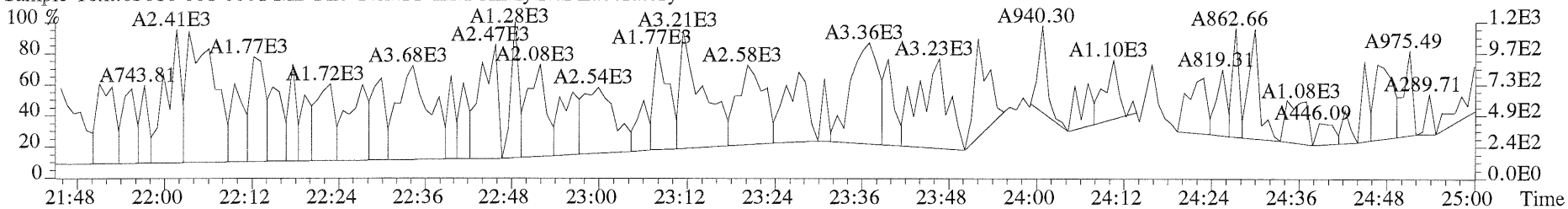
File:18AUG16Z #1-509 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



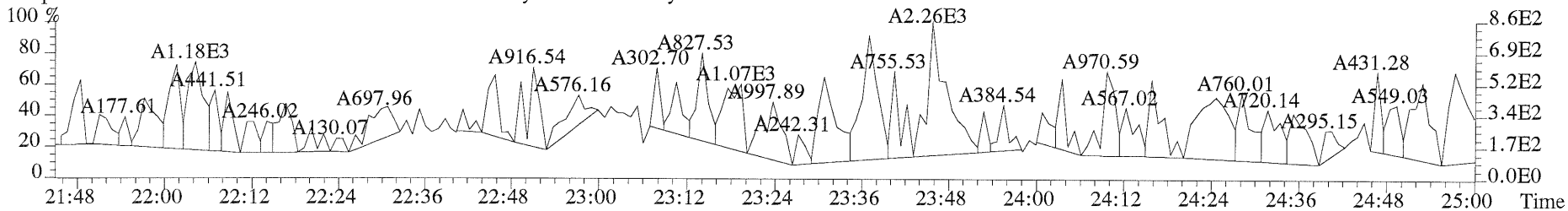
File:18AUG16Z #1-509 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:10 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



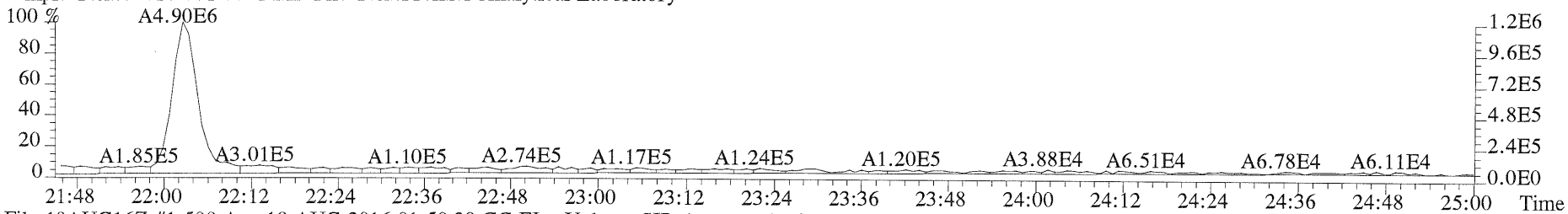
File:18AUG16Z #1-509 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



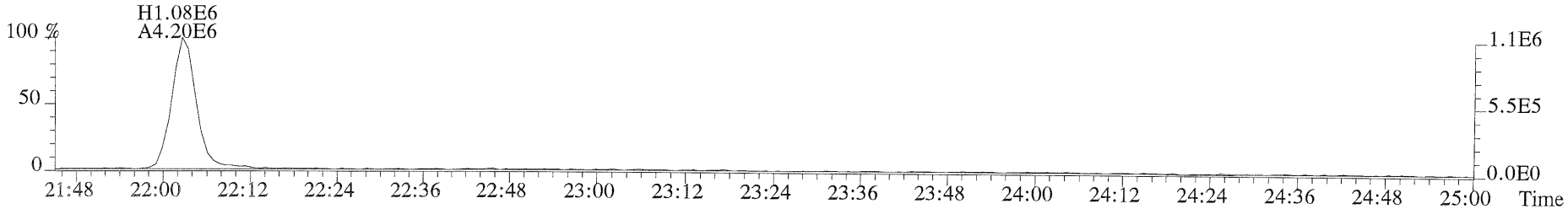
File:18AUG16Z #1-509 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



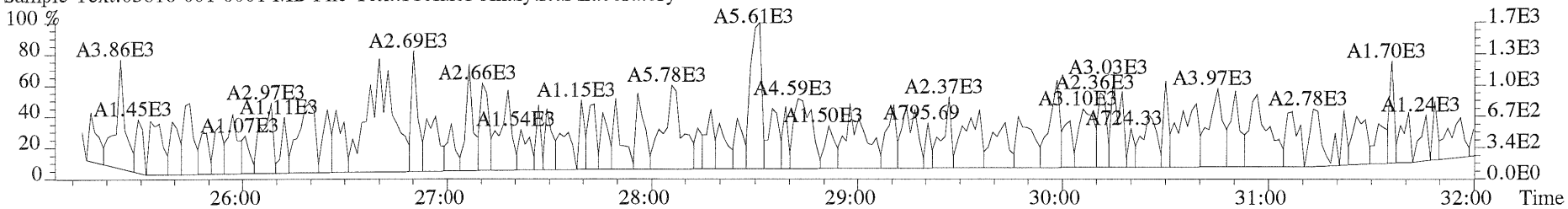
File:18AUG16Z #1-509 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



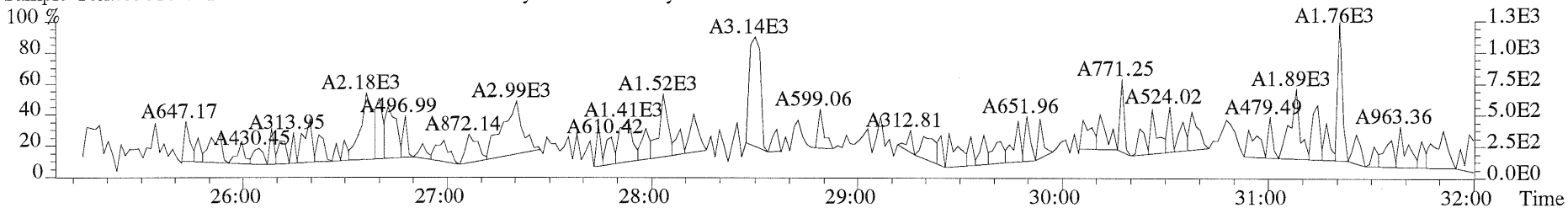
File:18AUG16Z #1-509 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



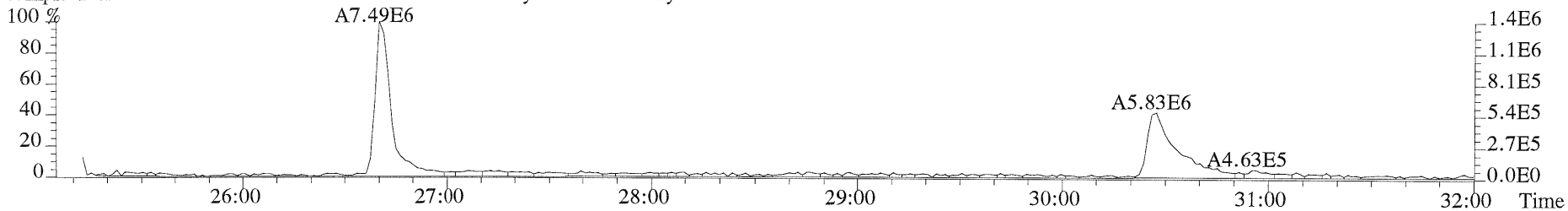
File:18AUG16Z #1-403 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



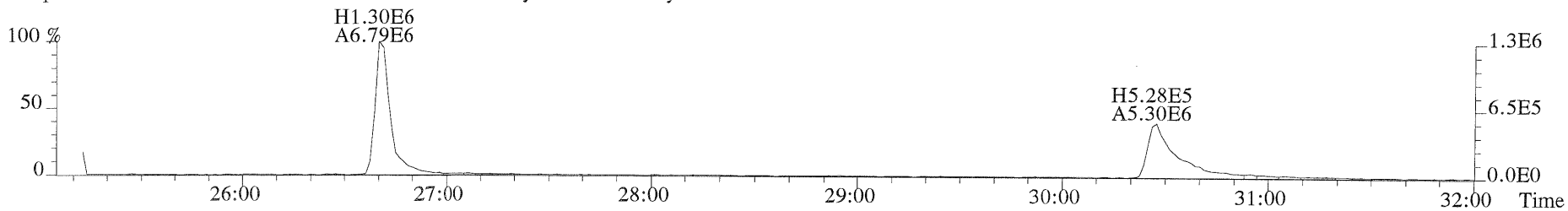
File:18AUG16Z #1-403 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



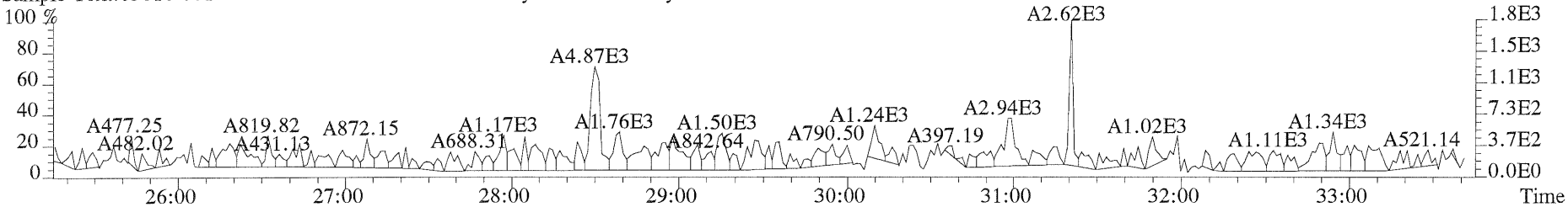
File:18AUG16Z #1-403 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



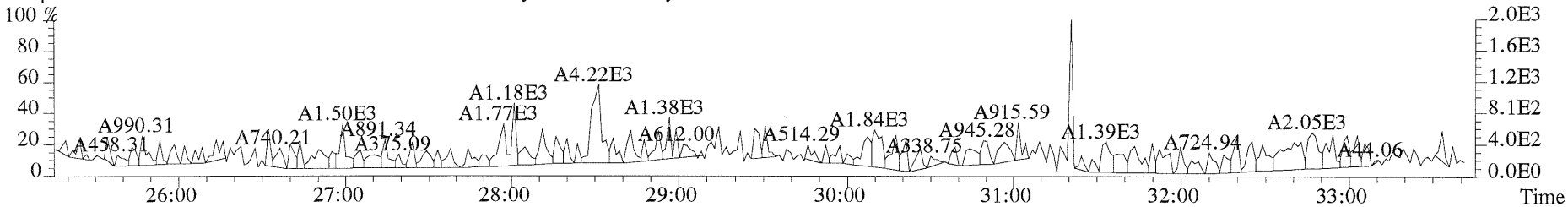
File:18AUG16Z #1-403 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



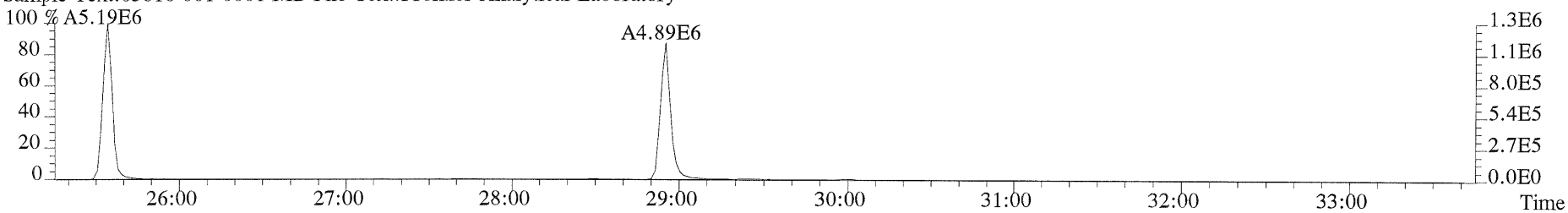
File:18AUG16Z #1-403 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



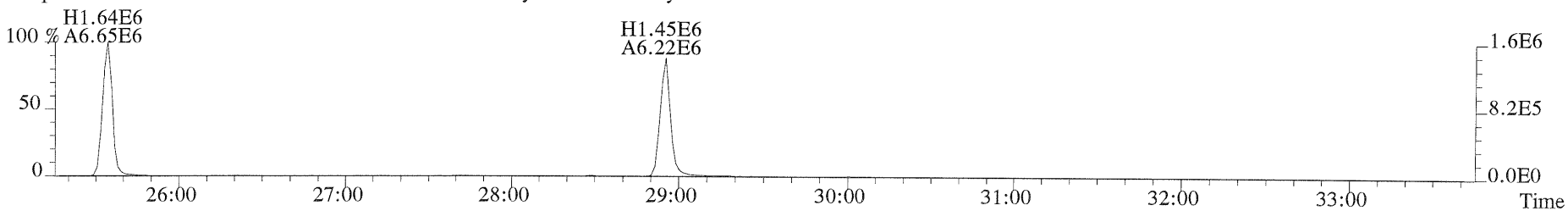
File:18AUG16Z #1-403 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



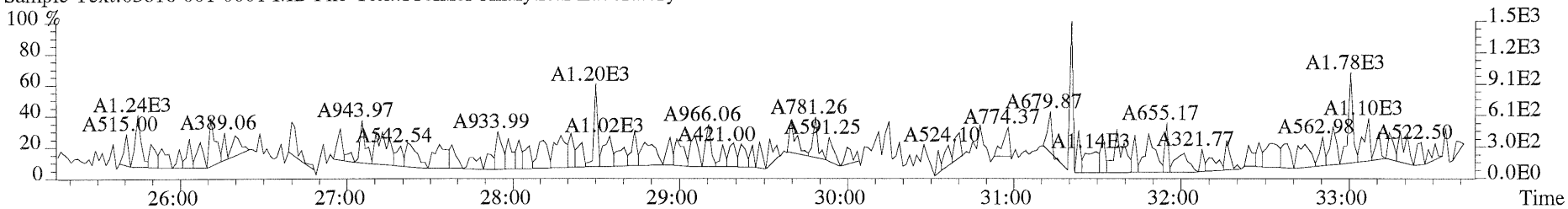
File:18AUG16Z #1-403 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



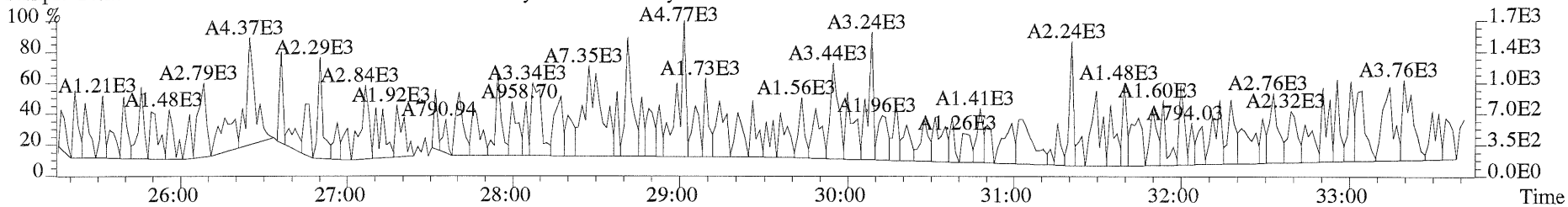
File:18AUG16Z #1-403 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



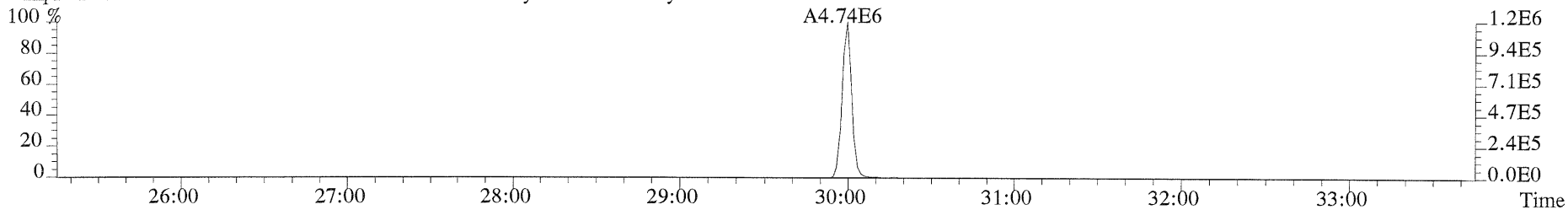
File:18AUG16Z #1-403 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



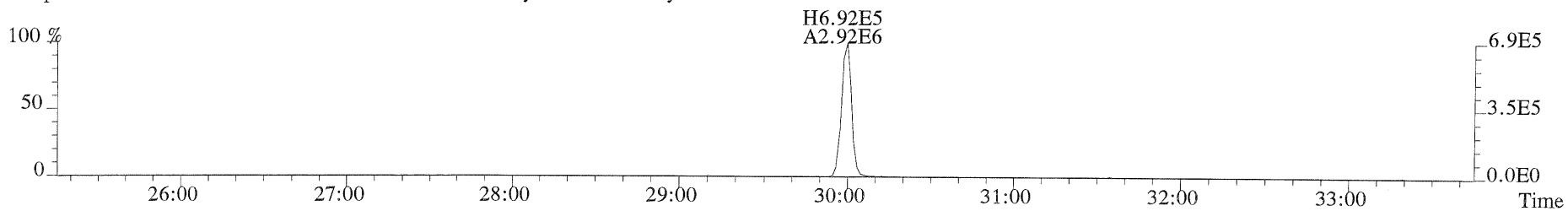
File:18AUG16Z #1-403 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



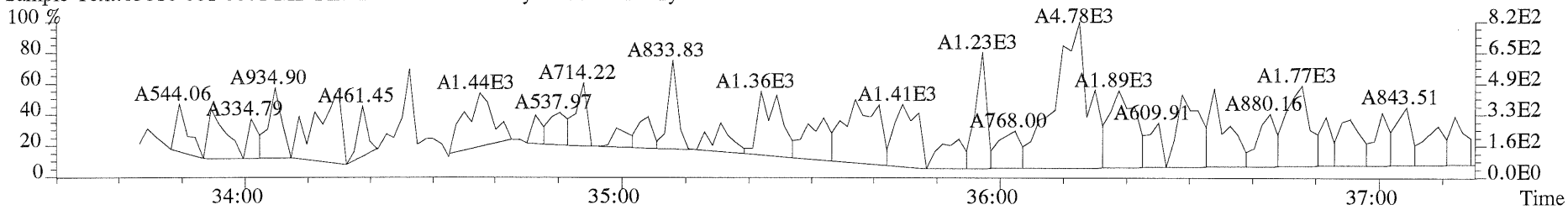
File:18AUG16Z #1-403 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



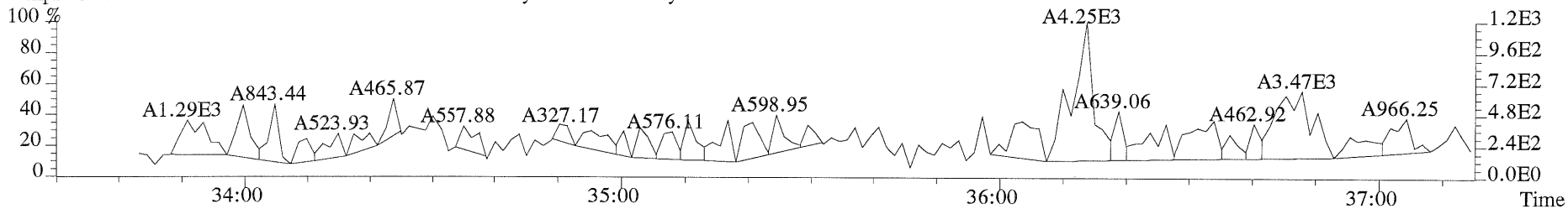
File:18AUG16Z #1-403 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



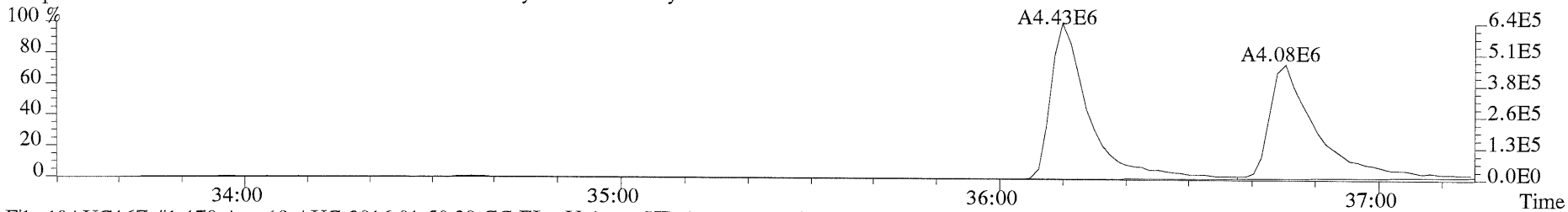
File:18AUG16Z #1-178 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



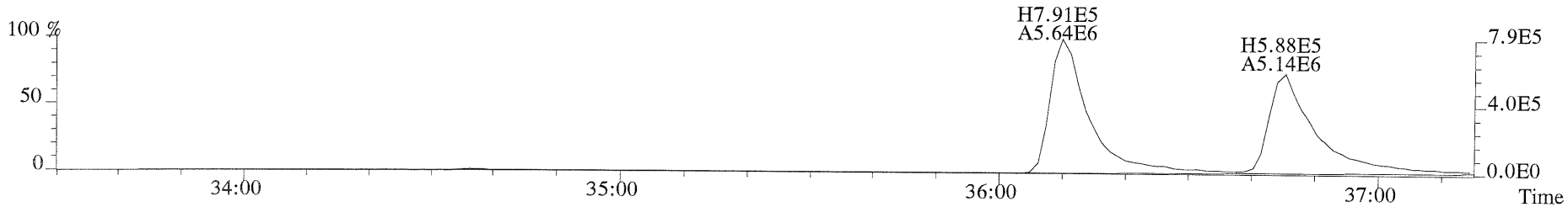
File:18AUG16Z #1-178 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



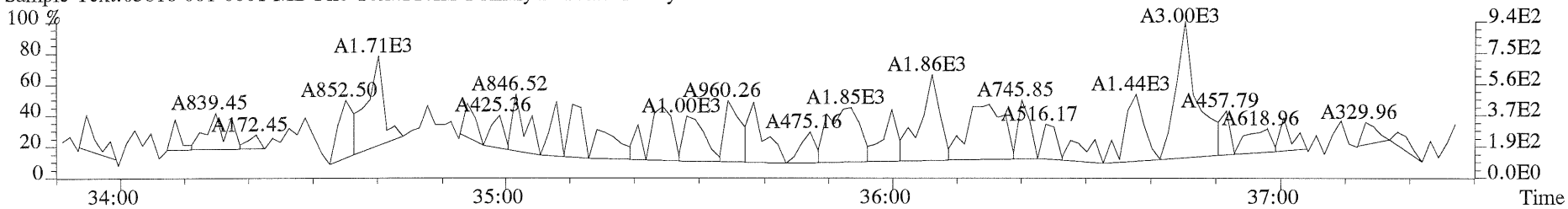
File:18AUG16Z #1-178 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



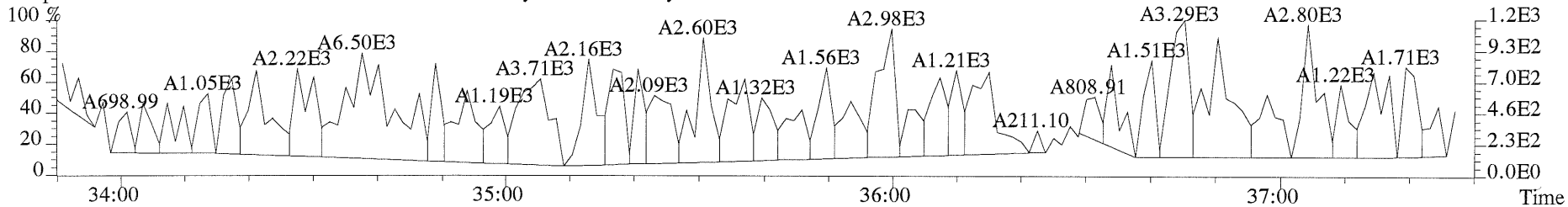
File:18AUG16Z #1-178 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



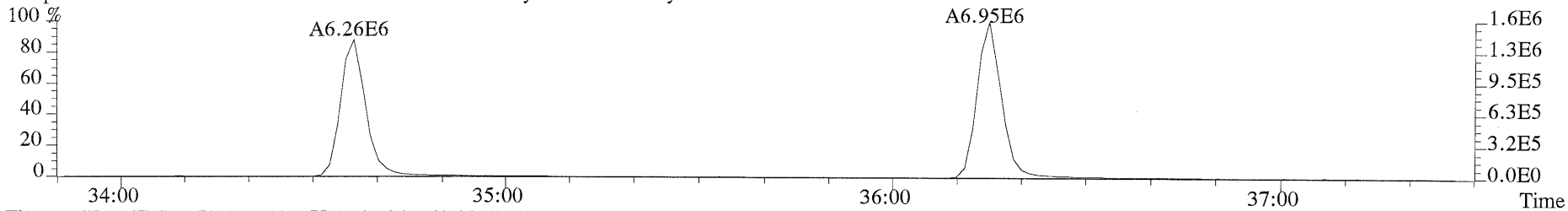
File:18AUG16Z #1-178 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



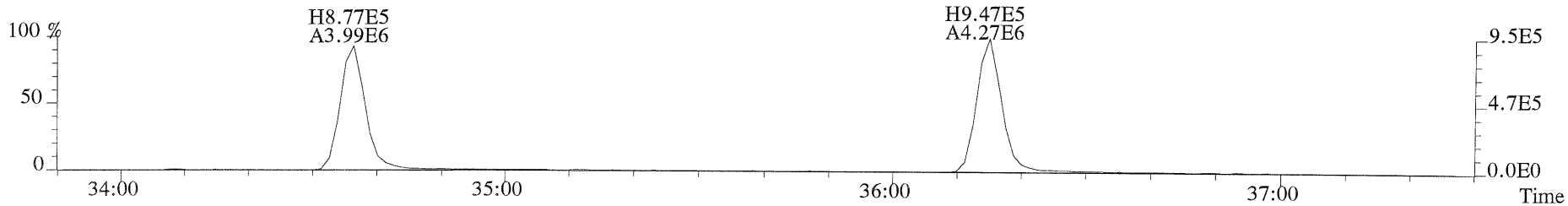
File:18AUG16Z #1-178 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



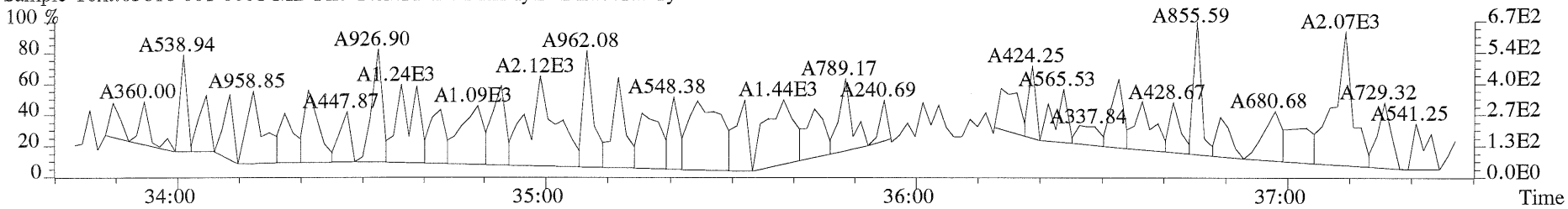
File:18AUG16Z #1-178 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



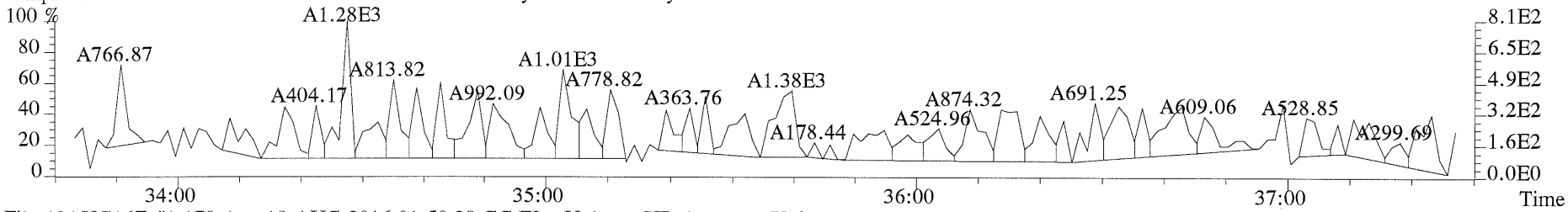
File:18AUG16Z #1-178 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



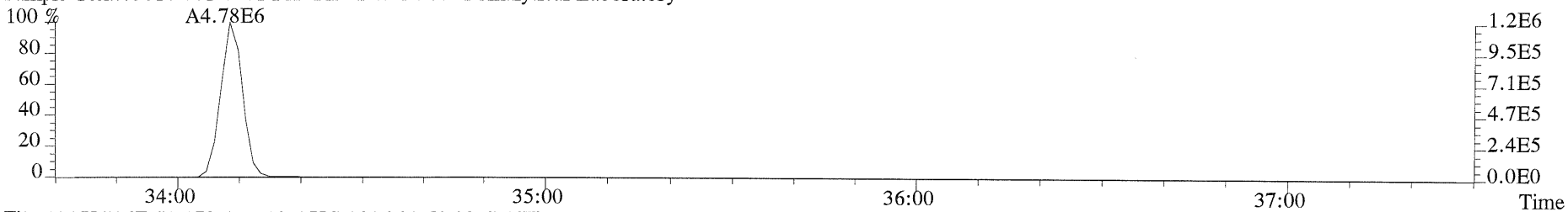
File:18AUG16Z #1-178 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



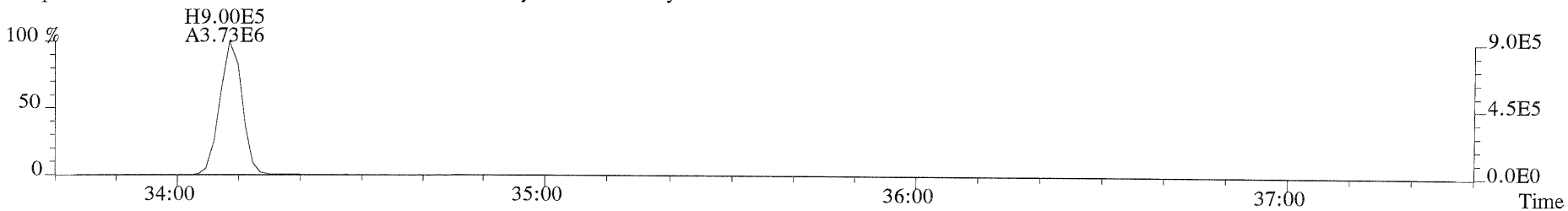
File:18AUG16Z #1-178 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



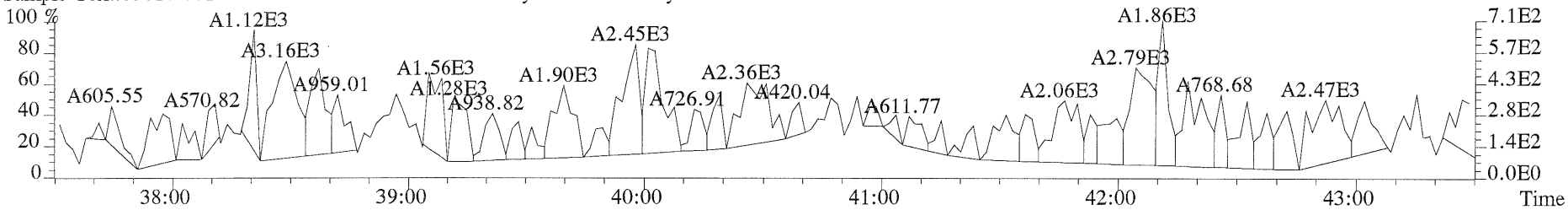
File:18AUG16Z #1-178 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



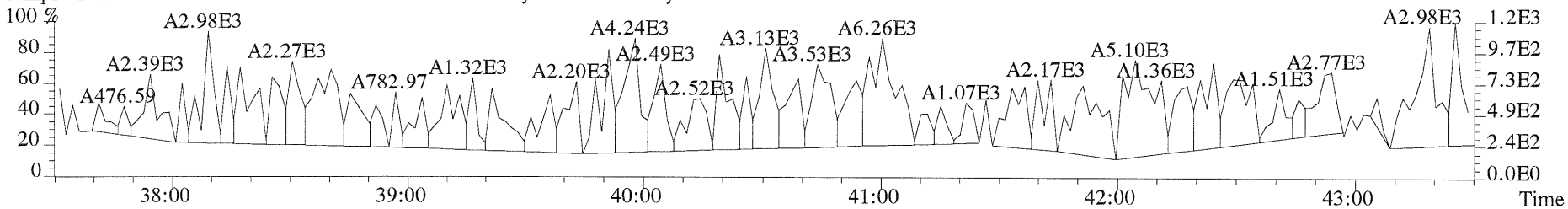
File:18AUG16Z #1-178 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



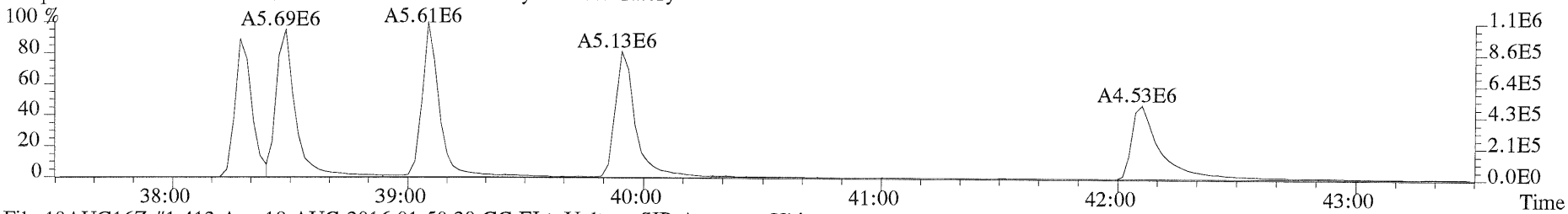
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



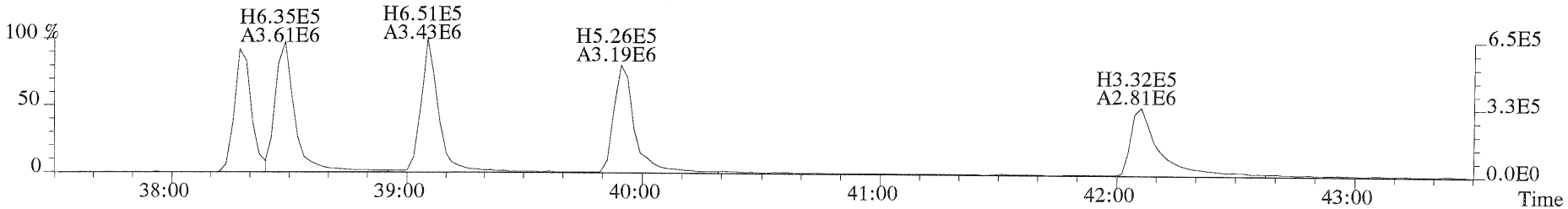
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



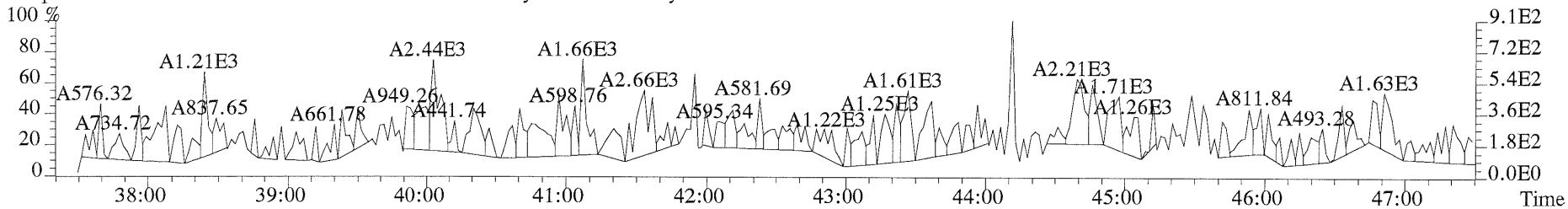
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



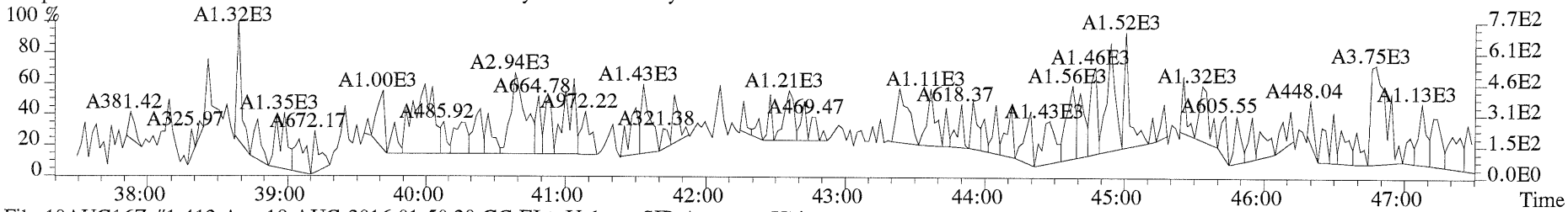
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



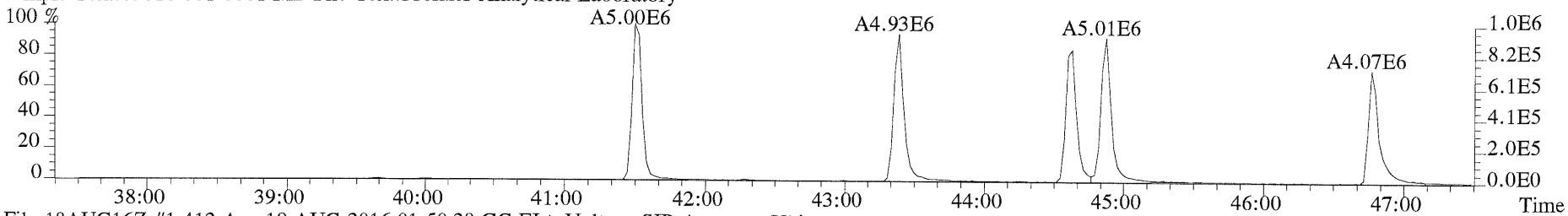
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



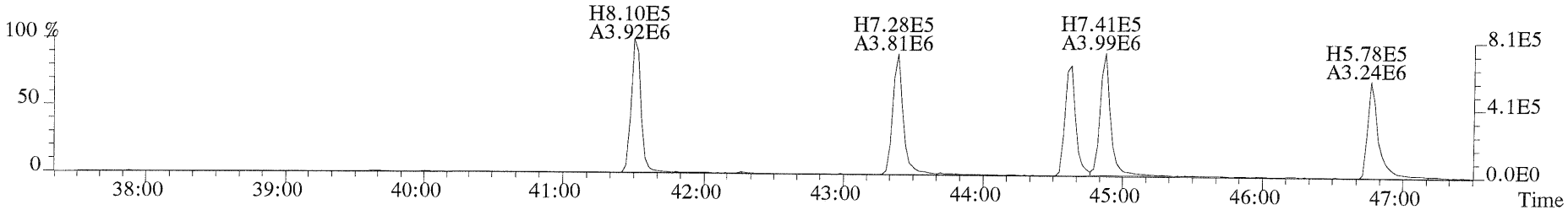
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



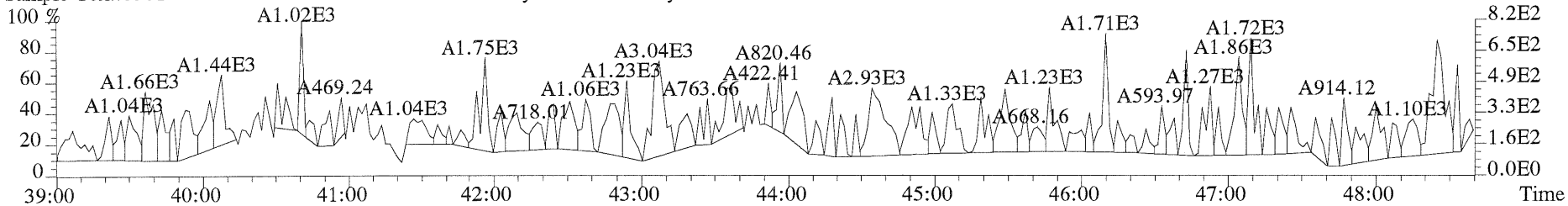
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



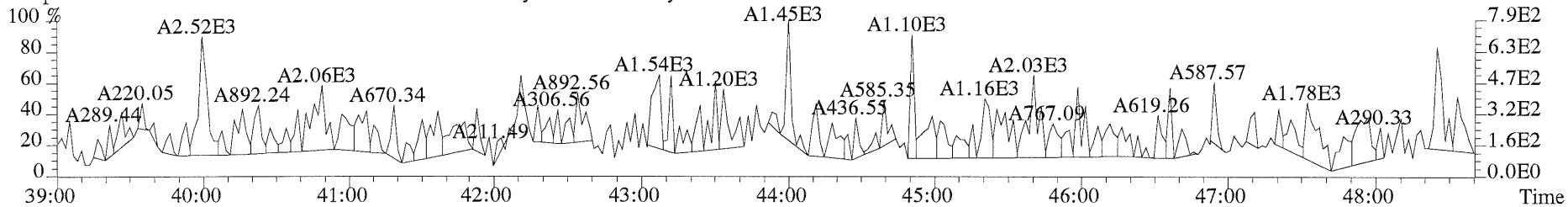
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



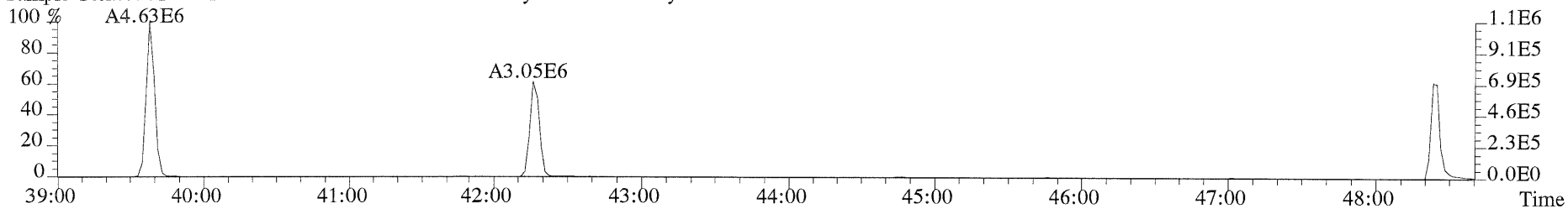
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



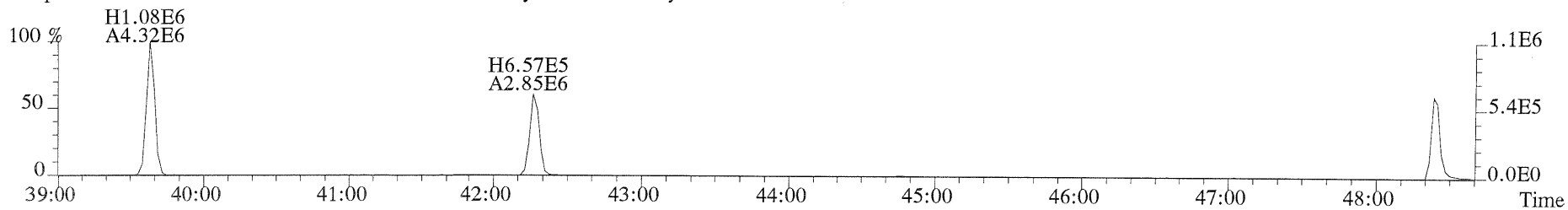
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



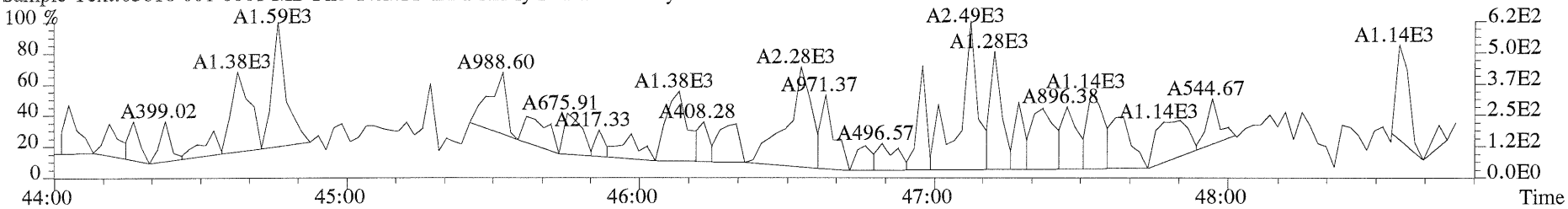
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



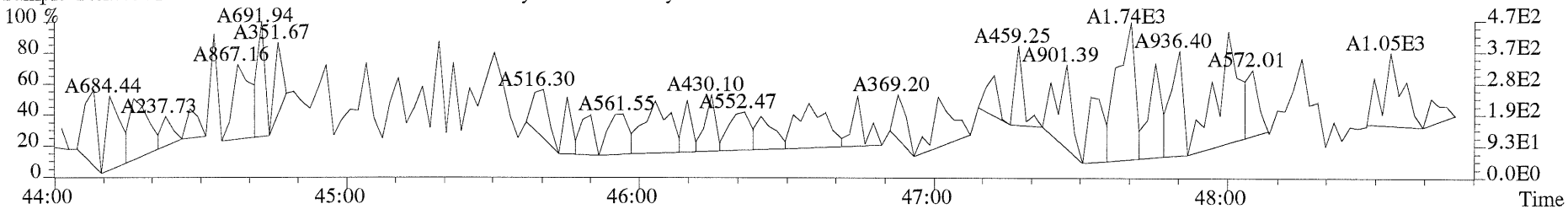
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



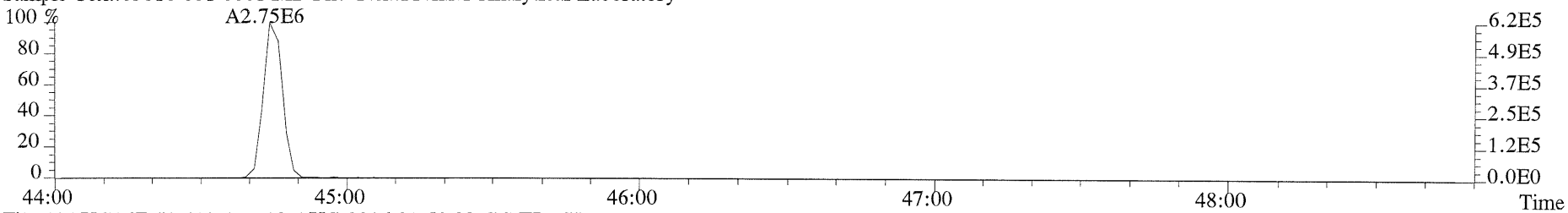
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



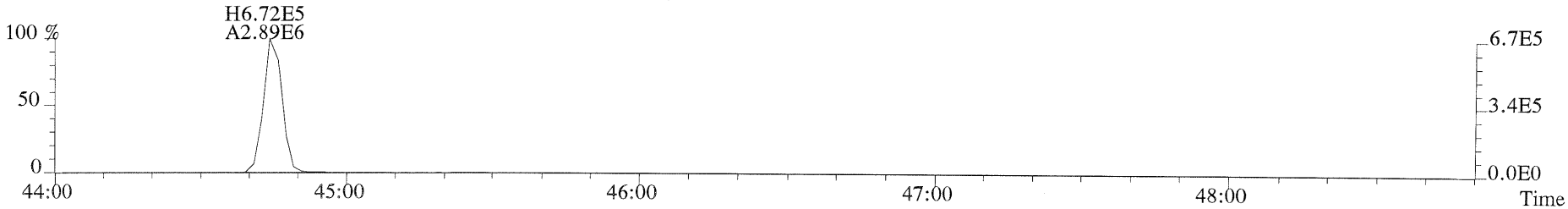
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



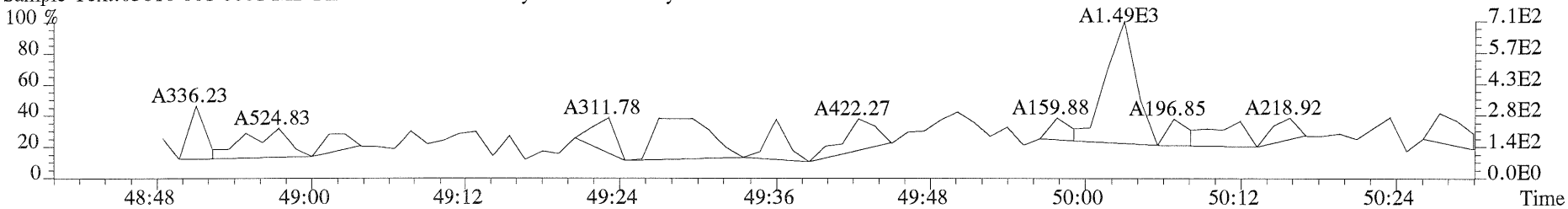
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



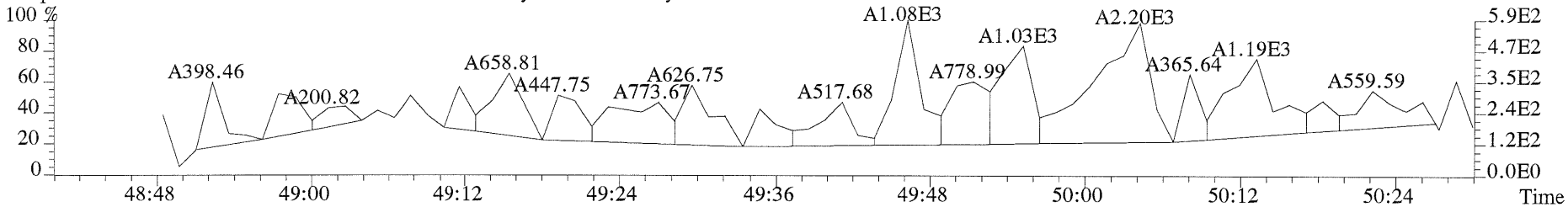
File:18AUG16Z #1-412 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



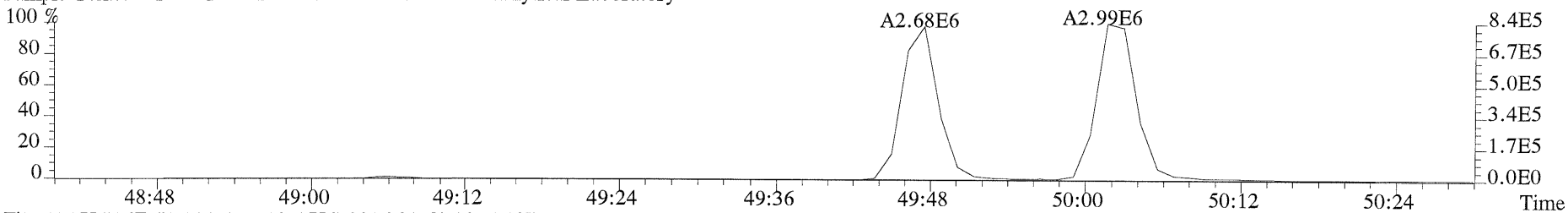
File:18AUG16Z #1-221 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



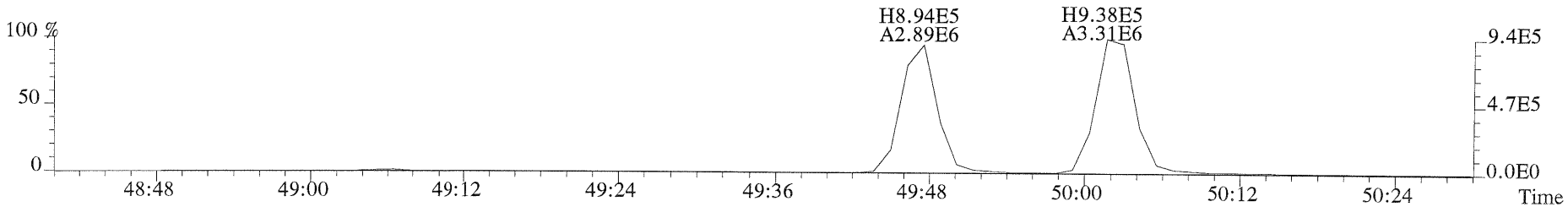
File:18AUG16Z #1-221 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



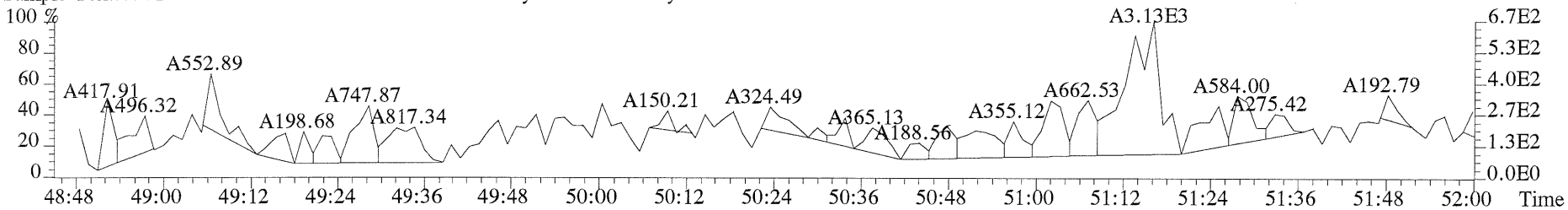
File:18AUG16Z #1-221 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



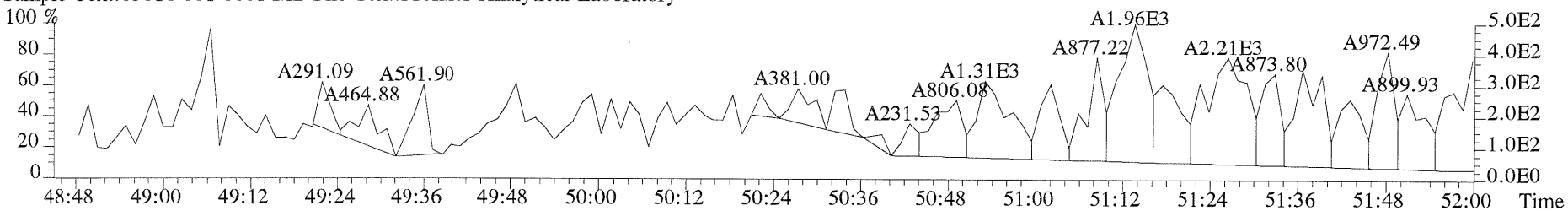
File:18AUG16Z #1-221 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



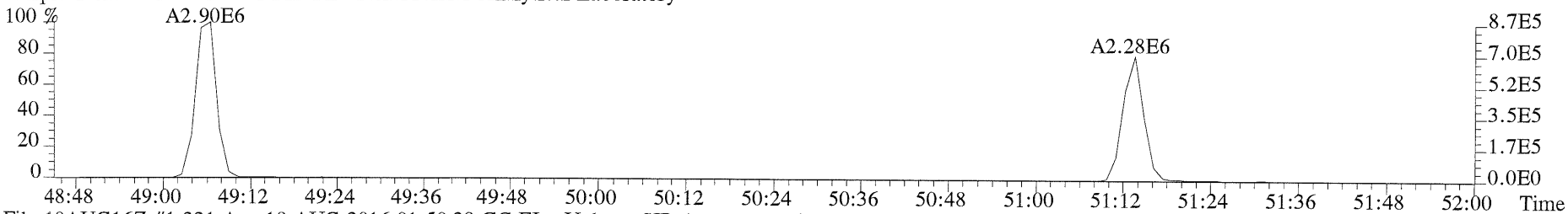
File:18AUG16Z #1-221 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



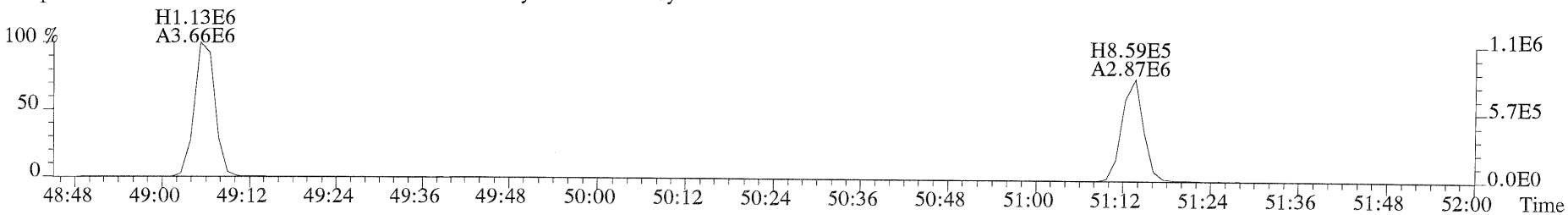
File:18AUG16Z #1-221 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



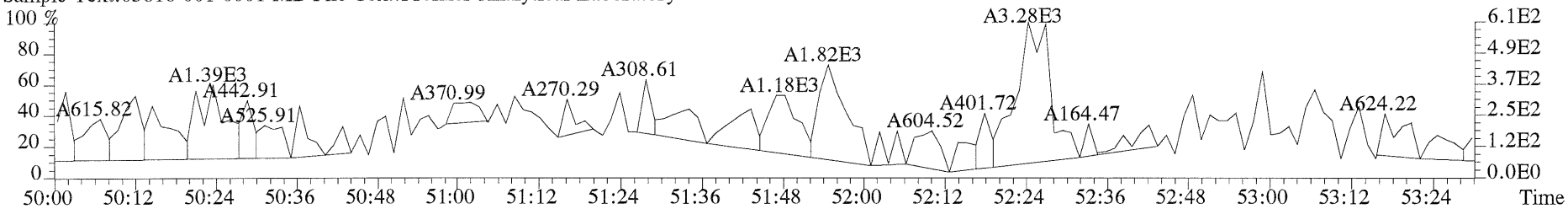
File:18AUG16Z #1-221 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



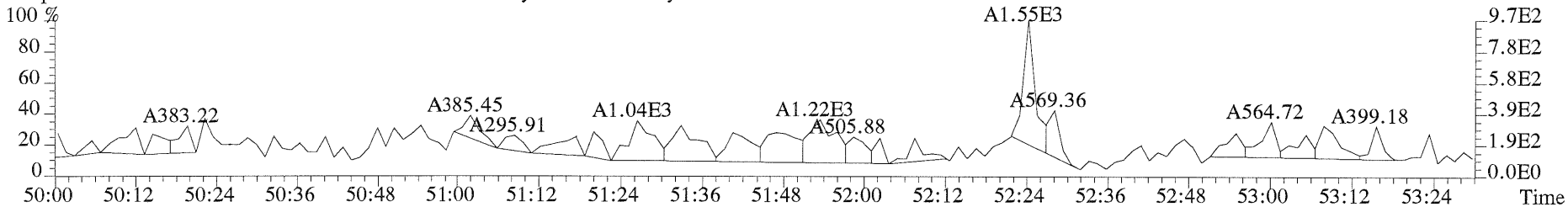
File:18AUG16Z #1-221 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



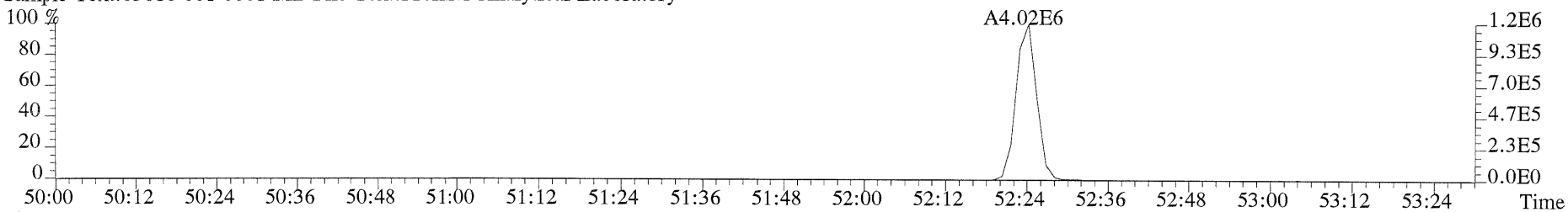
File:18AUG16Z #1-221 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



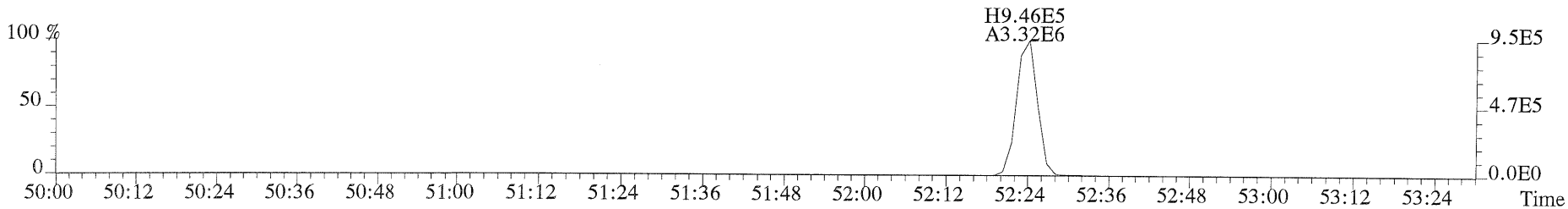
File:18AUG16Z #1-221 Acq:19-AUG-2016 01:50:28 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:10 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-MB File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-221 Acq:19-AUG-2016 01:50:28 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:03816-001-0001-MB File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-221 Acq:19-AUG-2016 01:50:28 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:03816-001-0001-MB File Text:Frontier Analytical Laboratory



3816-001-0001-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): Solid OPR Data Filename: 18AUG16Z Sam:9

Ext. Date: 8/17/16 Shift: Day Analysis Date: 19-AUG-16 00:50:32

	SPIKE CONC. (ng/mL)	CONC REC	OPR CONC. LIMITS (CONC)
NATIVE ANALYTES			
PCB-1	50	57.7	30.0 - 67.5
PCB-3	50	57.3	30.0 - 67.5
PCB-4	50	52.9	30.0 - 67.5
PCB-15	50	49.1	30.0 - 67.5
PCB-19	50	56.9	30.0 - 67.5
PCB-37	50	50.6	30.0 - 67.5
PCB-54	50	56.7	30.0 - 67.5
PCB-77	50	59.5	30.0 - 67.5
PCB-81	50	55.2	30.0 - 67.5
PCB-104	50	58.2	30.0 - 67.5
PCB-105	50	53.1	30.0 - 67.5
PCB-114	50	57.0	30.0 - 67.5
PCB-118	50	59.4	30.0 - 67.5
PCB-123	50	49.4	30.0 - 67.5
PCB-126	50	52.3	30.0 - 67.5
PCB-155	50	57.8	30.0 - 67.5
PCB-156	50	55.4	30.0 - 67.5
PCB-157	50	57.2	30.0 - 67.5
PCB-167	50	57.4	30.0 - 67.5
PCB-169	50	60.5	30.0 - 67.5
PCB-188	50	58.0	30.0 - 67.5
PCB-189	50	56.7	30.0 - 67.5
PCB-202	50	60.6	30.0 - 67.5
PCB-205	50	54.0	30.0 - 67.5
PCB-206	50	55.0	30.0 - 67.5
PCB-208	50	54.8	30.0 - 67.5
PCB-209	50	58.5	30.0 - 67.5

Analyst: [signature] Date: 8/23/16

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): Solid OPR Data Filename: 18AUG16Z Sam:9

Ext. Date: 8/17/16 Shift: Day Analysis Date: 19-AUG-16 00:50:32

	SPIKE CONC. (ng/mL)	RECOVERY (%)	OPR CONC. LIMITS (%)
LABELED COMPOUNDS			
13C-PCB-1	100	63.7	15.0 - 145
13C-PCB-3	100	67.3	15.0 - 145
13C-PCB-4	100	77.2	15.0 - 145
13C-PCB-15	100	76.5	15.0 - 145
13C-PCB-19	100	65.6	15.0 - 145
13C-PCB-37	100	77.1	15.0 - 145
13C-PCB-54	100	75.7	15.0 - 145
13C-PCB-77	100	77.3	40.0 - 145
13C-PCB-81	100	86.0	40.0 - 145
13C-PCB-104	100	69.4	40.0 - 145
13C-PCB-105	100	79.9	40.0 - 145
13C-PCB-114	100	80.4	40.0 - 145
13C-PCB-118	100	76.6	40.0 - 145
13C-PCB-123	100	70.1	40.0 - 145
13C-PCB-126	100	79.3	40.0 - 145
13C-PCB-155	100	71.3	40.0 - 145
13C-PCB-156	100	77.6	40.0 - 145
13C-PCB-157	100	82.4	40.0 - 145
13C-PCB-167	100	80.5	40.0 - 145
13C-PCB-169	100	79.6	40.0 - 145
13C-PCB-188	100	70.8	40.0 - 145
13C-PCB-189	100	78.4	40.0 - 145
13C-PCB-202	100	67.3	40.0 - 145
13C-PCB-205	100	79.5	40.0 - 145
13C-PCB-206	100	89.1	40.0 - 145
13C-PCB-208	100	72.5	40.0 - 145
13C-PCB-209	100	81.3	40.0 - 145
CLEANUP STANDARDS			
13C-PCB-28	100	88.4	15.0 - 145
13C-PCB-111	100	91.5	40.0 - 145
13C-PCB-178	100	76.2	40.0 - 145

Analyst: _____ Date: 8/23/16

FAL ID: 03816-001-0001-OPR Filename: 18AUG16Z Sam:9 Acquired: 19-AUG-16 00:50:32 ICal: DAILY209FAL4-8-18-16 1 of 2
Client ID: OPR ConCal: ST081816Z1 EndCal: ST081816Z2
Results: 10051X GC Column: DB1 Amount: 1.000

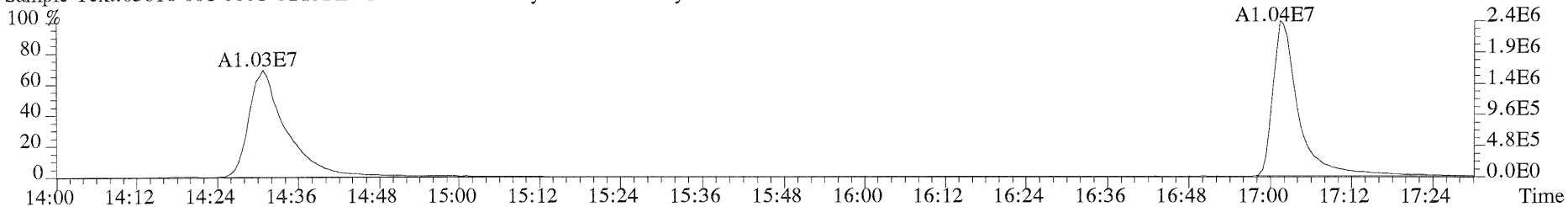
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	1.34e+07	3.29 y	14:31	1.04	57.7		2.50	-	-	*	
13C-PCB-1	2.24e+07	3.07 y	14:30	1.11	63.7		2.50				63.7
PCB-3	1.34e+07	3.36 y	17:01	1.07	57.3		2.50	-	-	*	
13C-PCB-3	2.19e+07	3.29 y	17:01	1.03	67.3		2.50				67.3
PCB-4	9.08e+06	1.54 y	18:13	1.22	52.9		2.50	-	-	*	
13C-PCB-4	1.41e+07	1.59 y	18:11	0.58	77.2		2.50				77.2
PCB-15	1.33e+07	1.63 y	23:47	1.26	49.1		2.50	-	-	*	
13C-PCB-15	2.14e+07	1.67 y	23:45	0.88	76.5		2.50				76.5
PCB-19	7.47e+06	1.04 y	22:05	1.07	56.9		2.50	-	-	*	
13C-PCB-19	1.23e+07	1.17 y	22:03	0.59	65.6		2.50				65.6
13C-PCB-9	3.17e+07	1.61 y	19:56	-	32.6		2.50				
PCB-37	1.03e+07	1.05 y	30:25	1.27	50.6		2.50	-	-	*	
13C-PCB-37	1.61e+07	1.10 y	30:25	1.22	77.1		2.50				77.1
PCB-54	9.90e+06	0.79 y	25:35	1.08	56.7		2.50	-	-	*	
13C-PCB-54	1.62e+07	0.78 y	25:34	1.24	75.7		2.50				75.7
PCB-104	6.86e+06	1.57 y	30:01	1.14	58.2		2.50	-	-	*	
13C-PCB-104	1.04e+07	1.62 y	29:60	0.87	69.4		2.50				69.4
13C-PCB-28	2.22e+07	1.08 y	26:40	1.47	88.4		2.50				88.4
13C-PCB-52	1.72e+07	0.78 y	28:55	-	30.8		2.50				
PCB-81	9.17e+06	0.77 y	36:10	1.18	55.2		2.50	-	-	*	
13C-PCB-81	1.41e+07	0.81 y	36:09	1.07	86.0		2.50				86.0
PCB-77	8.26e+06	0.79 y	36:44	1.08	59.5		2.50	-	-	*	
13C-PCB-77	1.29e+07	0.81 y	36:43	1.09	77.3		2.50				77.3
PCB-155	7.17e+06	1.28 y	34:10	1.07	57.8		2.50	-	-	*	
13C-PCB-155	1.16e+07	1.27 y	34:08	1.06	71.3		2.50				71.3
13C-PCB-111	1.58e+07	1.61 y	36:15	1.13	91.5		2.50				91.5
13C-PCB-101	1.53e+07	1.60 y	34:36	-	30.9		2.50				
PCB-123	6.40e+06	1.57 y	38:19	1.24	49.4		2.50	-	-	*	
13C-PCB-123	1.04e+07	1.59 y	38:17	1.09	70.1		2.50				70.1
PCB-118	7.95e+06	1.50 y	38:30	1.08	59.4		2.50	-	-	*	
13C-PCB-118	1.24e+07	1.59 y	38:28	1.19	76.6		2.50				76.6
PCB-114	7.49e+06	1.55 y	39:06	1.08	57.0		2.50	-	-	*	
13C-PCB-114	1.22e+07	1.57 y	39:05	1.11	80.4		2.50				80.4
PCB-105	7.39e+06	1.60 y	39:56	1.13	53.1		2.50	-	-	*	
13C-PCB-105	1.23e+07	1.58 y	39:54	1.14	79.9		2.50				79.9
PCB-126	6.26e+06	1.55 y	42:06	1.14	52.3		2.50	-	-	*	
13C-PCB-126	1.05e+07	1.60 y	42:04	0.97	79.3		2.50				79.3
PCB-167	6.93e+06	1.28 y	43:23	0.96	57.4		2.50	-	-	*	
13C-PCB-167	1.25e+07	1.24 y	43:23	1.14	80.5		2.50				80.5
PCB-156	6.49e+06	1.27 y	44:37	1.04	55.4		2.50	-	-	*	
13C-PCB-156	1.13e+07	1.28 y	44:36	1.07	77.6		2.50				77.6
PCB-157	6.68e+06	1.26 y	44:52	0.96	57.2		2.50	-	-	*	
13C-PCB-157	1.22e+07	1.26 y	44:52	1.09	82.4		2.50				82.4
PCB-169	5.59e+06	1.28 y	46:46	0.92	60.5		2.50	-	-	*	
13C-PCB-169	1.00e+07	1.24 y	46:46	0.92	79.6		2.50				79.6
PCB-188	7.83e+06	1.05 y	39:39	1.12	58.0		2.50	-	-	*	
13C-PCB-188	1.20e+07	1.08 y	39:38	1.25	70.8		2.50				70.8
PCB-189	5.37e+06	1.07 y	48:24	1.09	56.7		2.50	-	-	*	
13C-PCB-189	8.71e+06	1.09 y	48:23	0.82	78.4		2.50				78.4
PCB-202	4.95e+06	0.90 y	44:45	1.00	60.6		2.50	-	-	*	
13C-PCB-202	8.16e+06	0.95 y	44:44	0.89	67.3		2.50				67.3
13C-PCB-178	8.39e+06	1.04 y	42:16	0.81	76.2		2.50				76.2
13C-PCB-138	1.36e+07	1.27 y	41:31	-	32.4		2.50				

FAL ID: 03816-001-0001-OPR Filename: 18AUG16Z Sam:9 Acquired: 19-AUG-16 00:50:32 ICal: DAILY209FAL4-8-18-16 2 of 2
Client ID: OPR ConCal: ST081816Z1 EndCal: ST081816Z2
Results: 10051X GC Column: DB1 Amount: 1.000

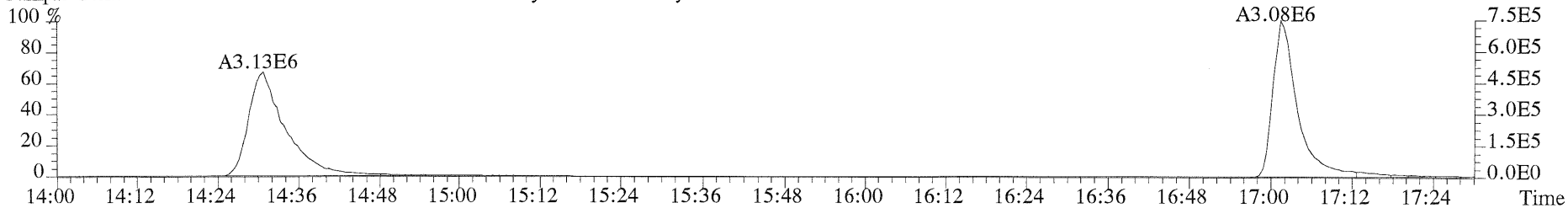
PCB-205	4.95e+06	0.86 y	50:02	1.03	54.0	2.50	-	-	*	
13C-PCB-205	8.92e+06	0.90 y	50:02	1.25	79.5	2.50				79.5
PCB-208	4.53e+06	1.46 y	49:06	0.92	54.8	2.50	-	-	*	
13C-PCB-208	8.94e+06	0.78 y	49:06	1.37	72.5	2.50				72.5
PCB-206	4.00e+06	1.38 y	51:14	0.99	55.0	2.50	-	-	*	
13C-PCB-206	7.34e+06	0.79 y	51:13	0.92	89.1	2.50				89.1
PCB-209	6.53e+06	1.18 y	52:25	1.07	58.5	2.50	-	-	*	
13C-PCB-209	1.04e+07	1.21 y	52:24	1.43	81.3	2.50				81.3
13C-PCB-194	8.97e+06	0.93 y	49:47	-	32.3	2.50				

Analyst: _____ Date: 8/23/16

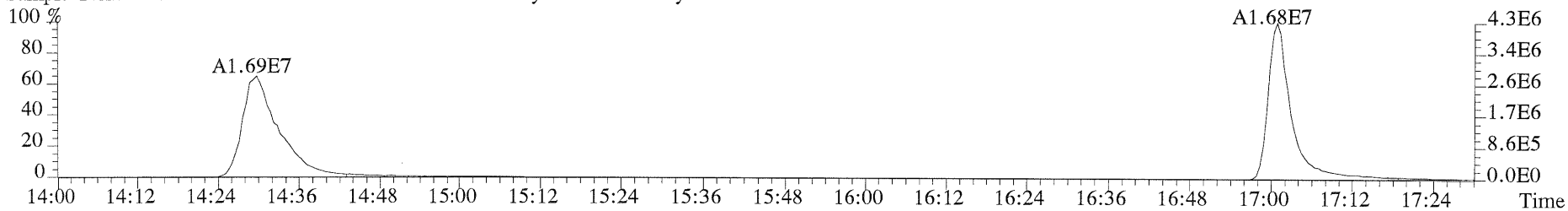
File:18AUG16Z #1-901 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



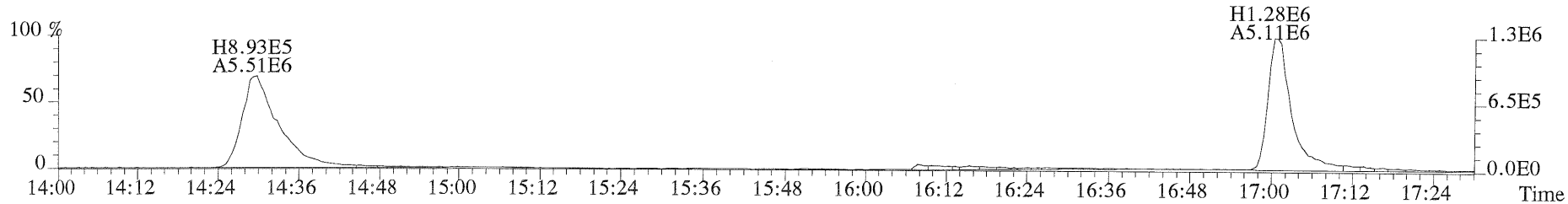
File:18AUG16Z #1-901 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



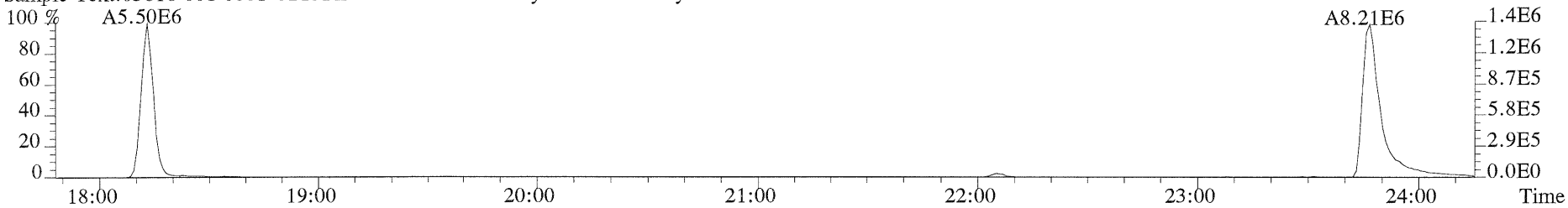
File:18AUG16Z #1-901 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



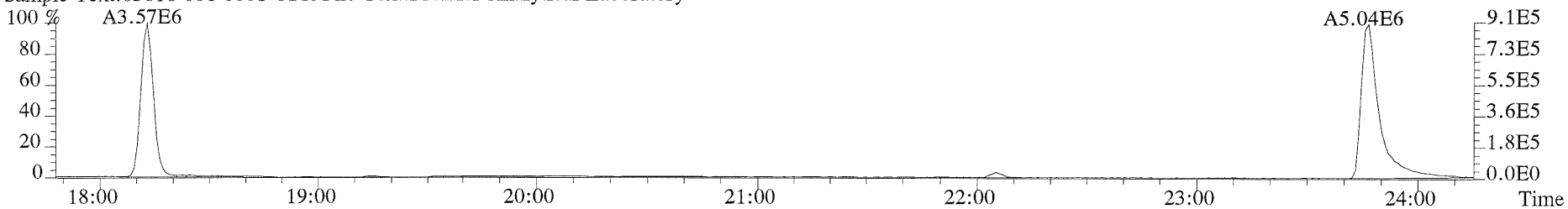
File:18AUG16Z #1-901 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:9 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



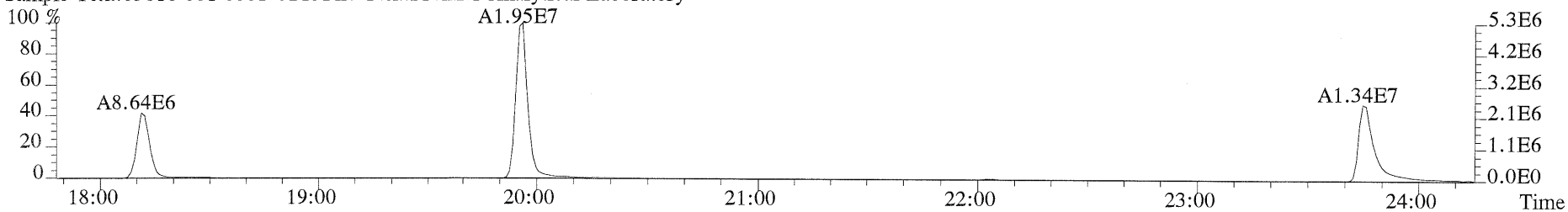
File:18AUG16Z #1-509 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



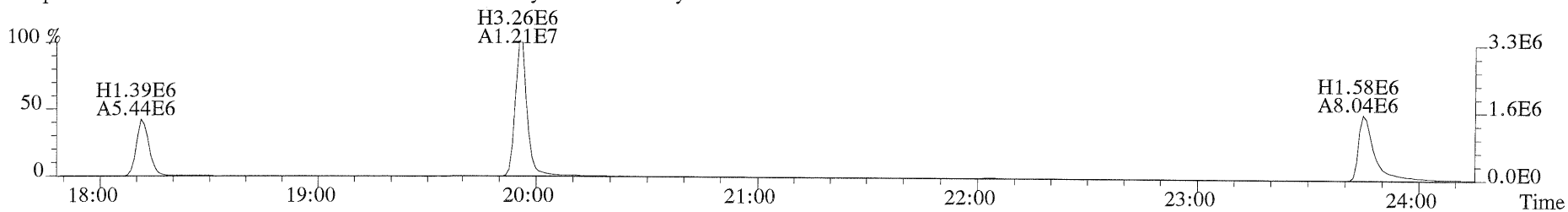
File:18AUG16Z #1-509 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



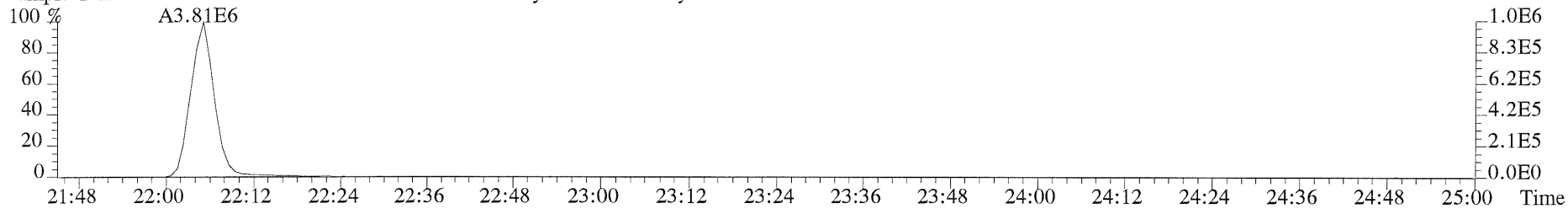
File:18AUG16Z #1-509 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



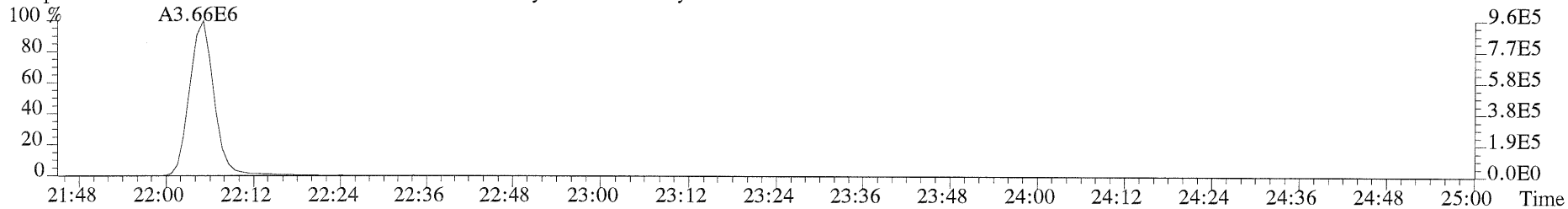
File:18AUG16Z #1-509 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



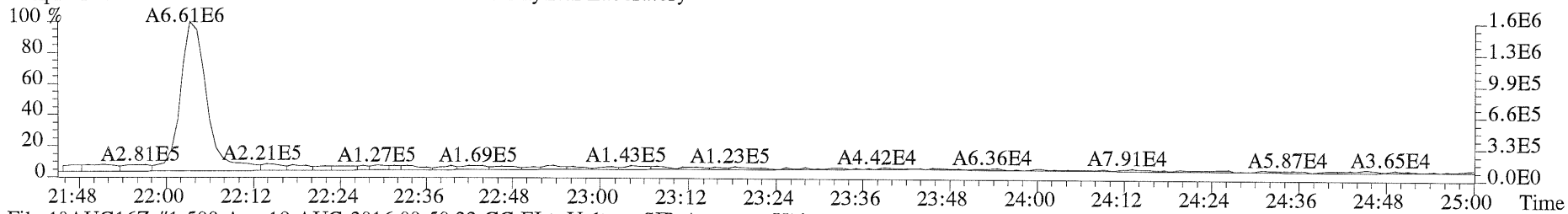
File:18AUG16Z #1-509 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



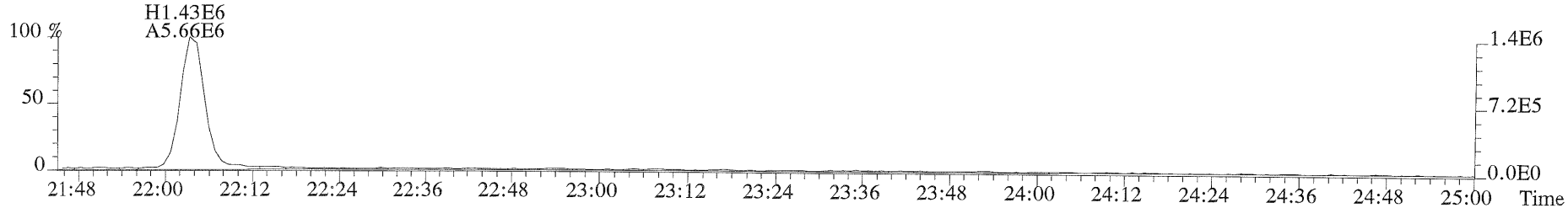
File:18AUG16Z #1-509 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



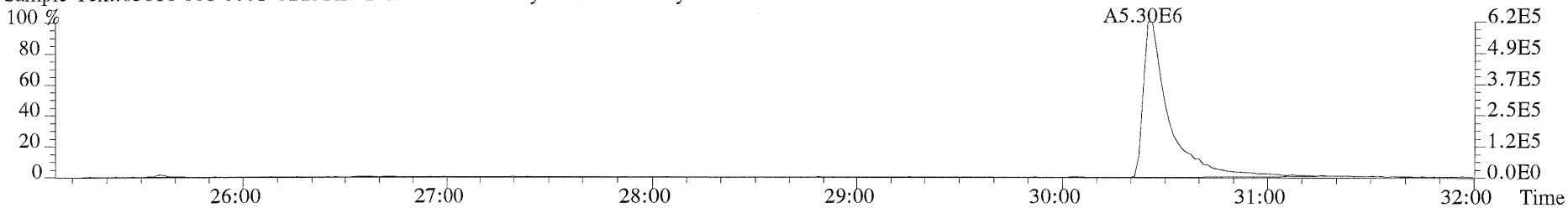
File:18AUG16Z #1-509 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



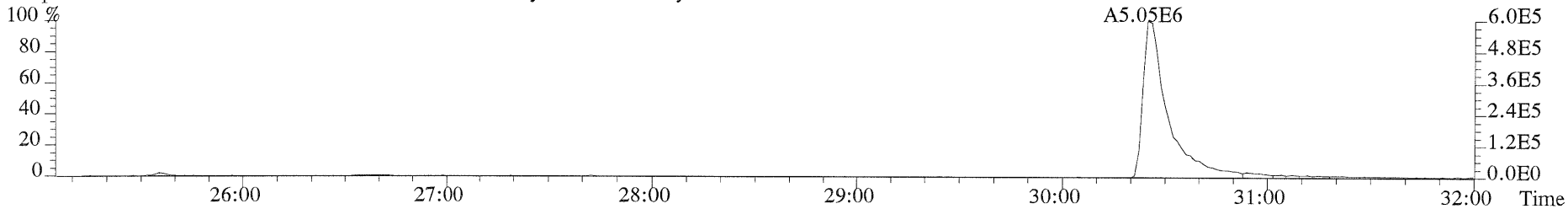
File:18AUG16Z #1-509 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



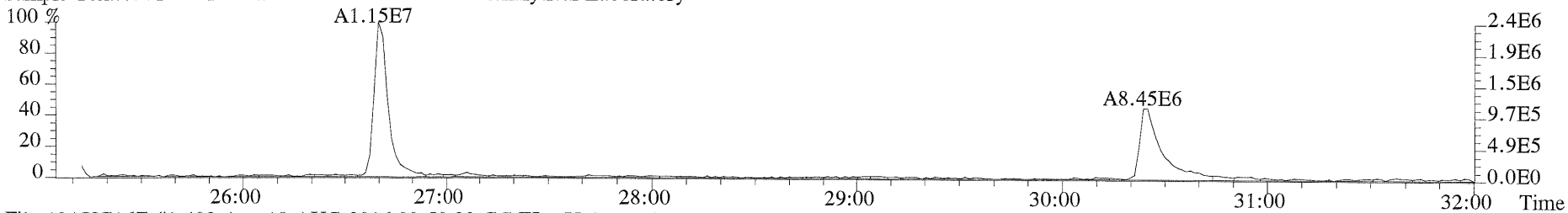
File:18AUG16Z #1-403 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



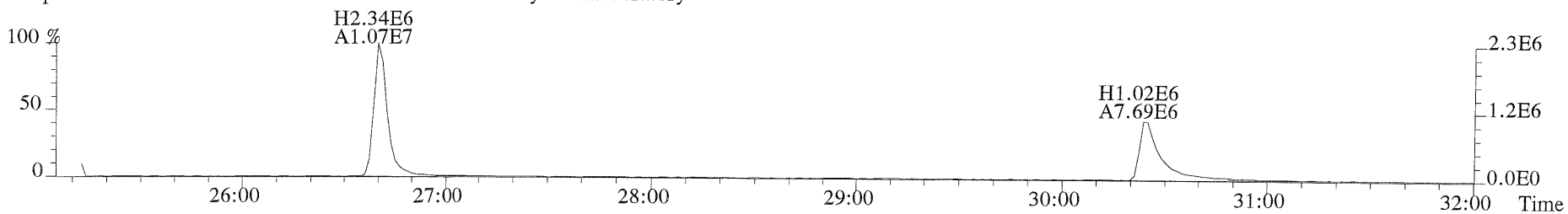
File:18AUG16Z #1-403 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



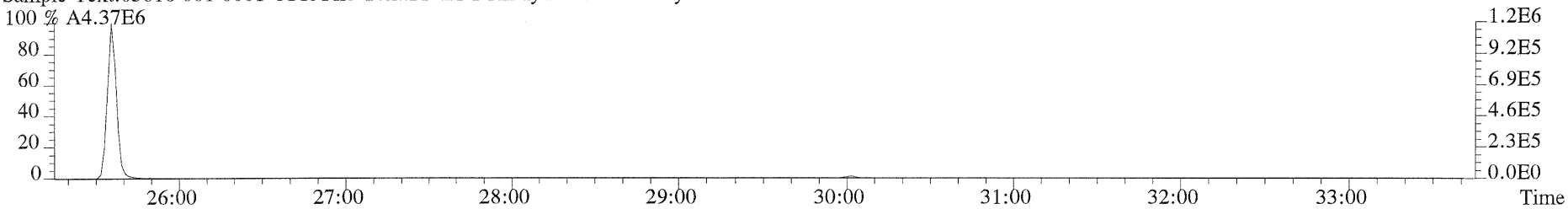
File:18AUG16Z #1-403 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



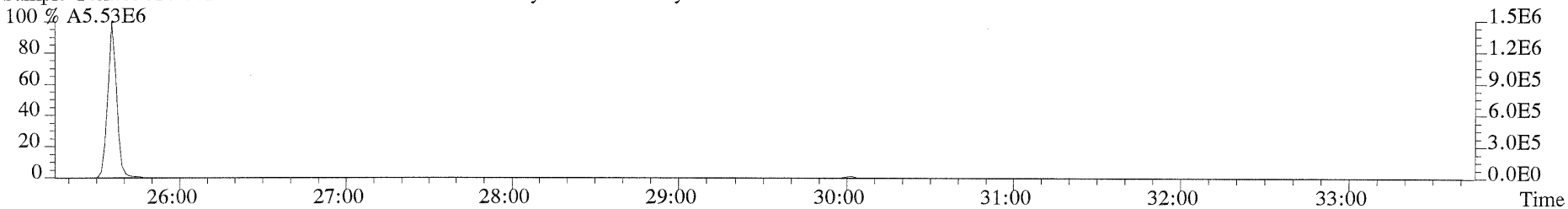
File:18AUG16Z #1-403 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



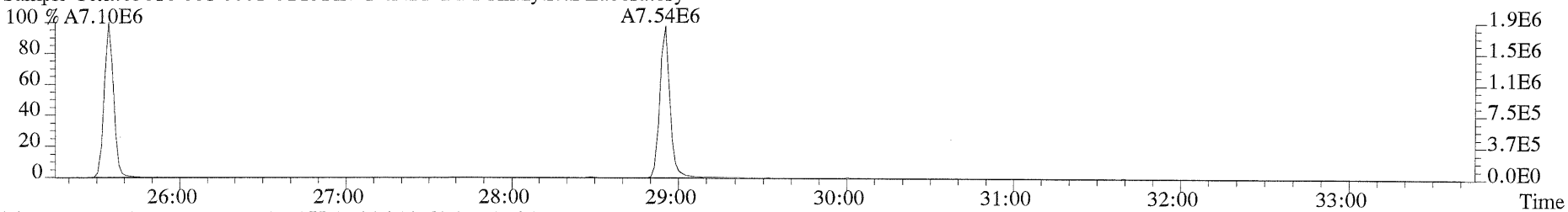
File:18AUG16Z #1-403 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



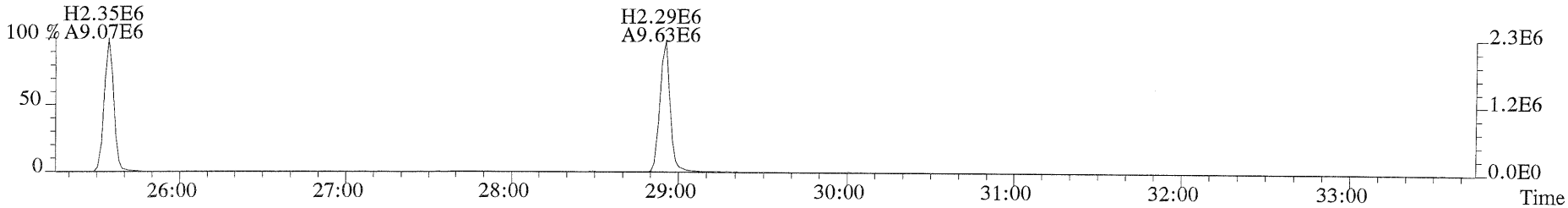
File:18AUG16Z #1-403 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



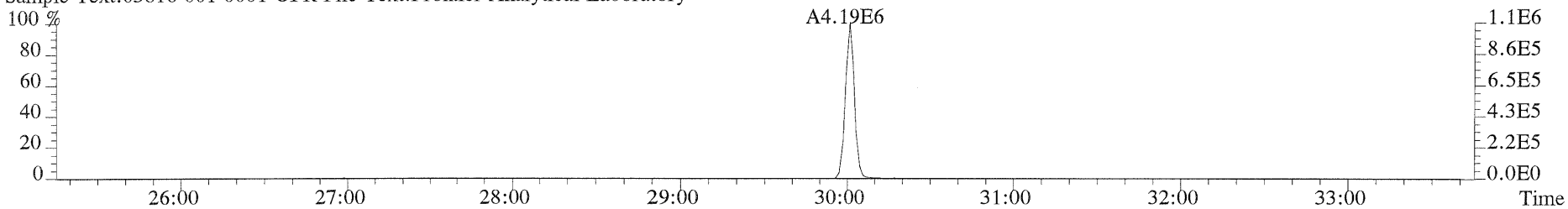
File:18AUG16Z #1-403 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



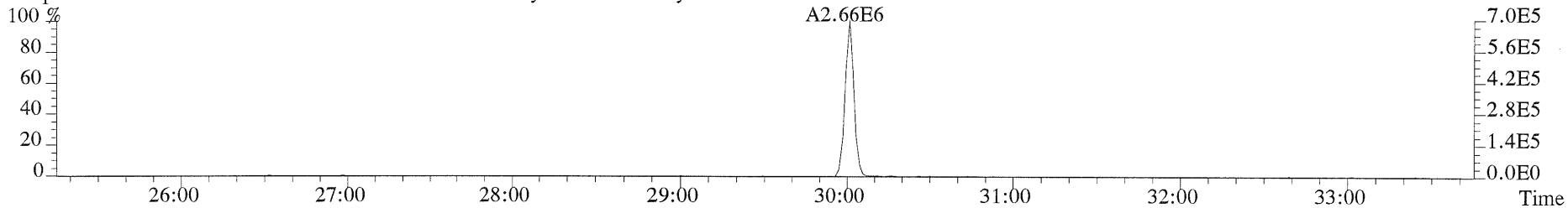
File:18AUG16Z #1-403 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-403 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-403 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



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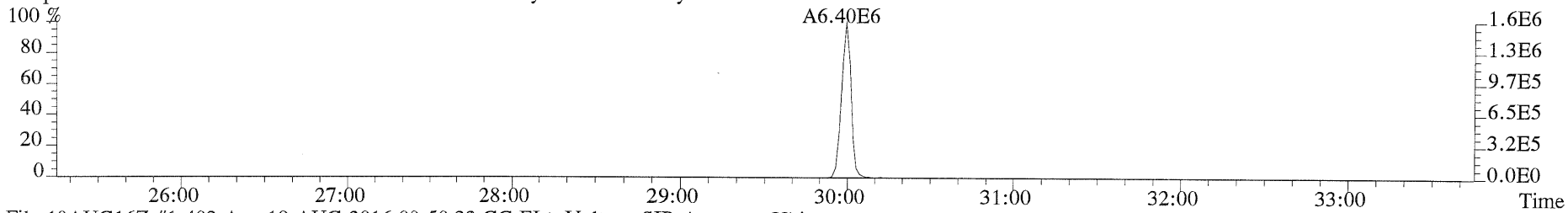
337.9207 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



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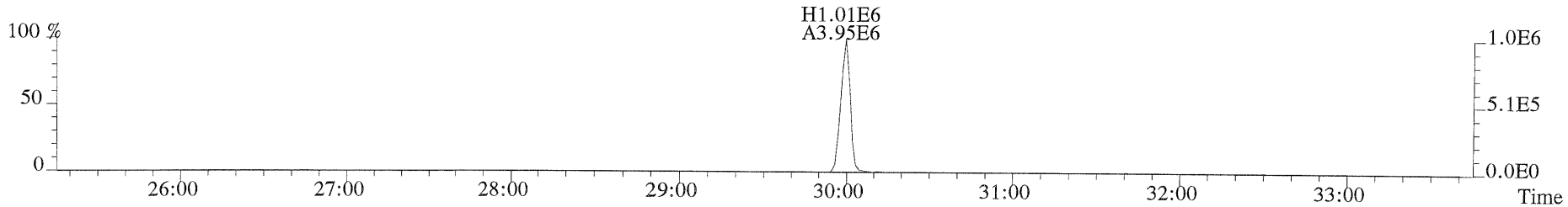
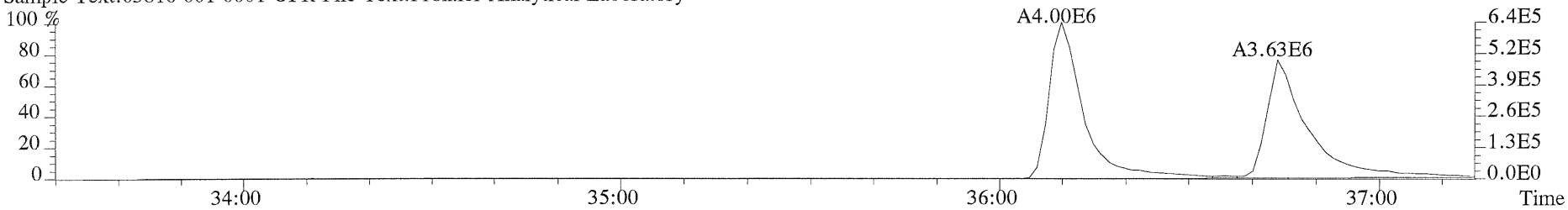
339.9178 S:9 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-179 Acq:19-AUG-2016 00:50:32 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:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



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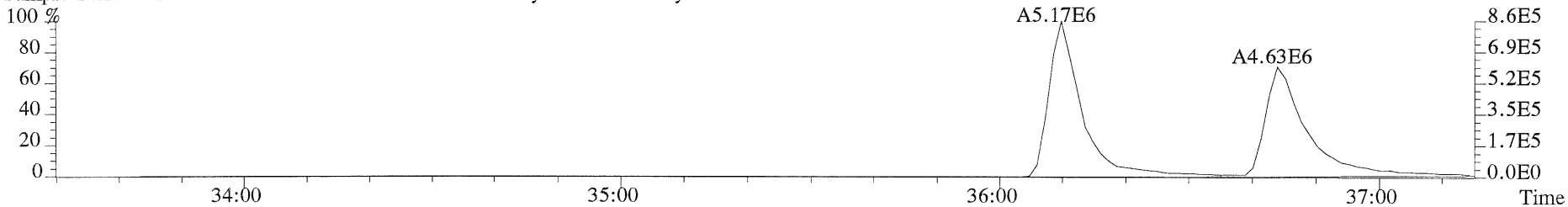
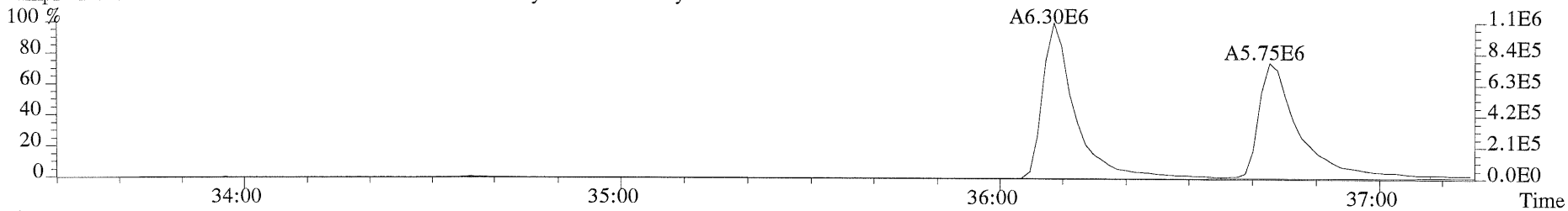
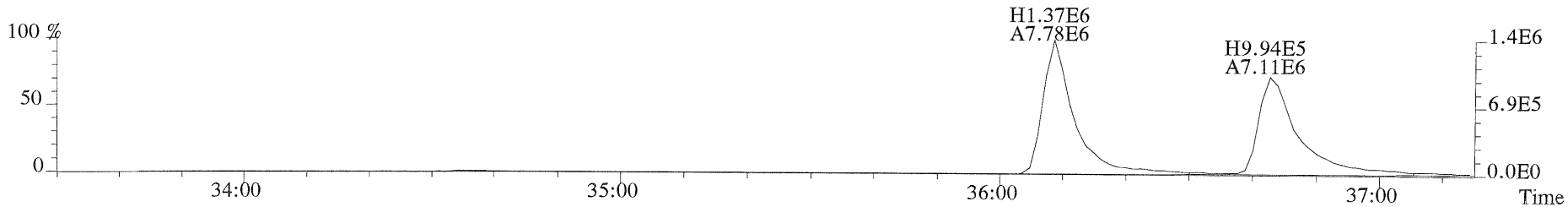
291.9194 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



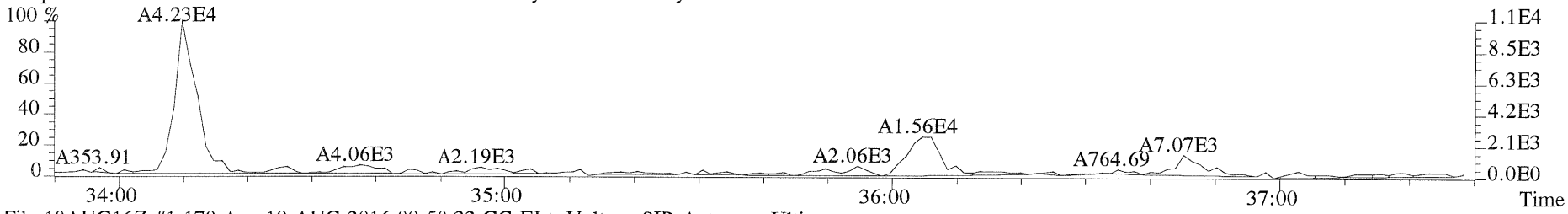
File:18AUG16Z #1-179 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



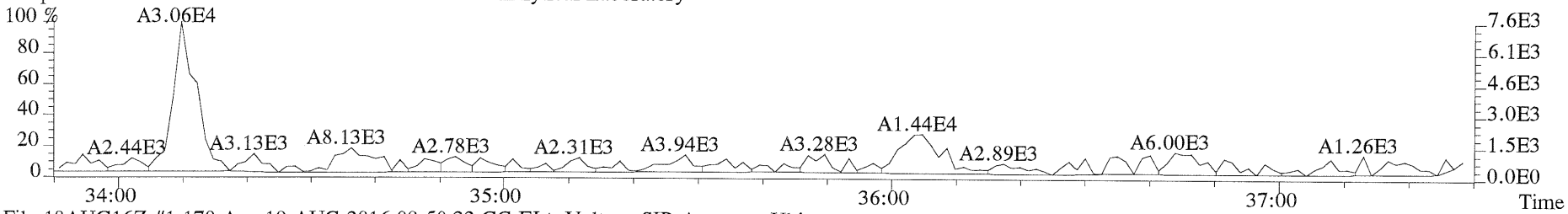
File:18AUG16Z #1-179 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



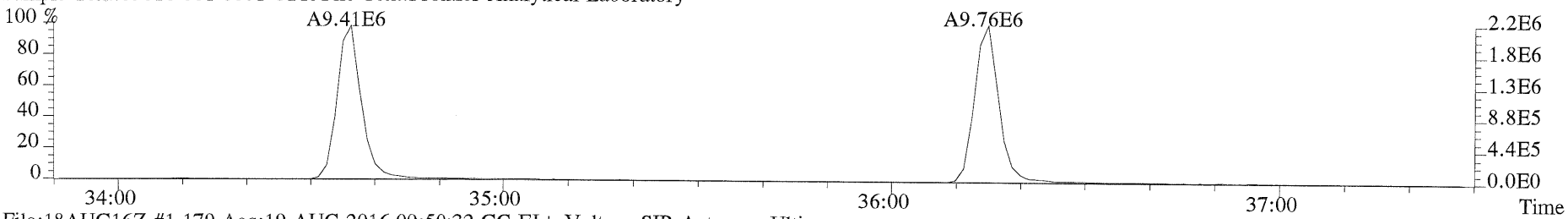
File:18AUG16Z #1-179 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



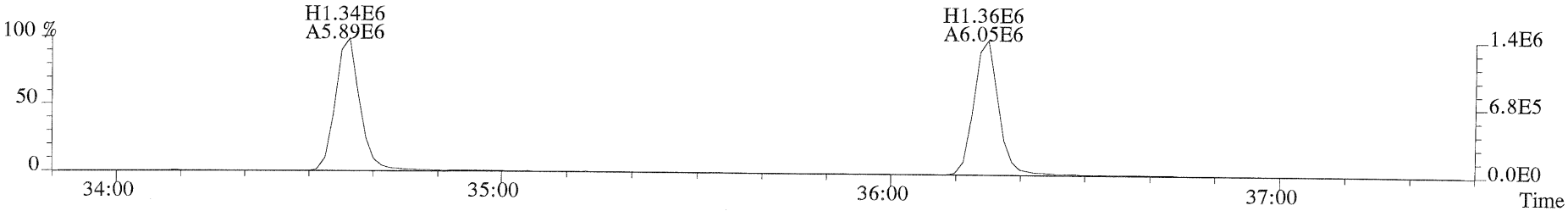
File:18AUG16Z #1-179 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



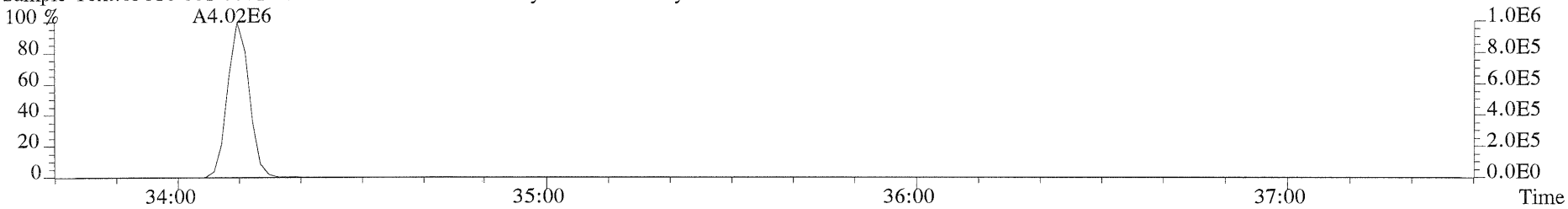
File:18AUG16Z #1-179 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



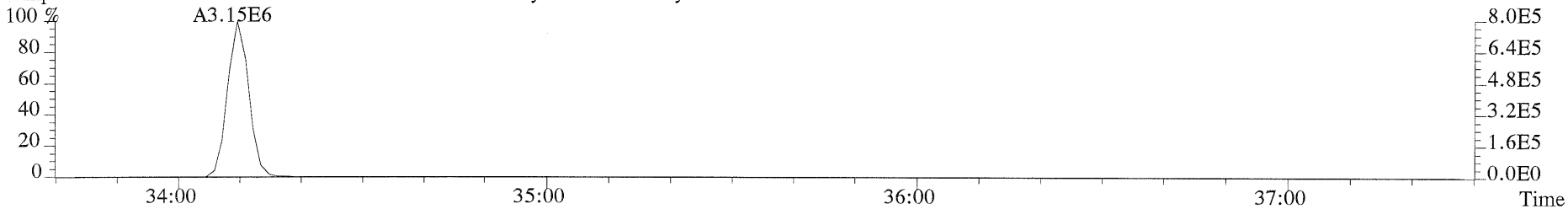
File:18AUG16Z #1-179 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



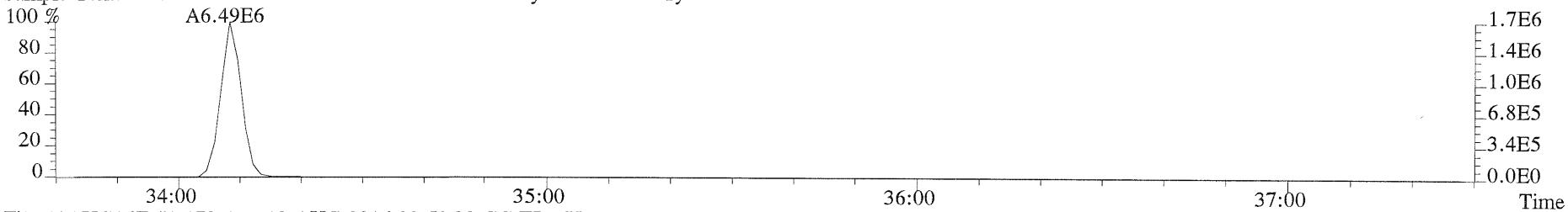
File:18AUG16Z #1-179 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



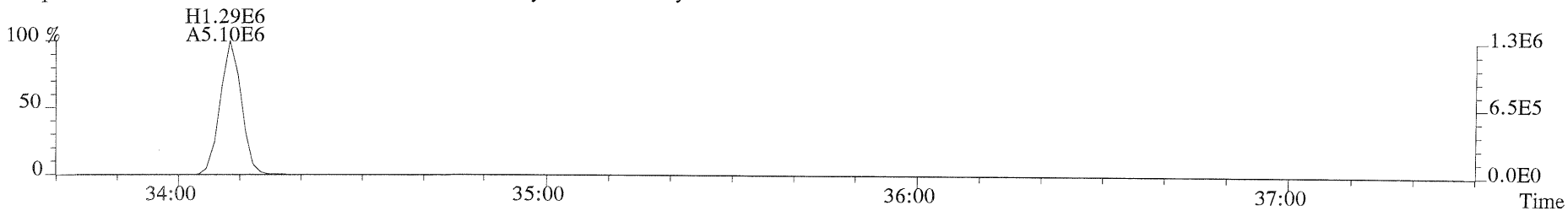
File:18AUG16Z #1-179 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



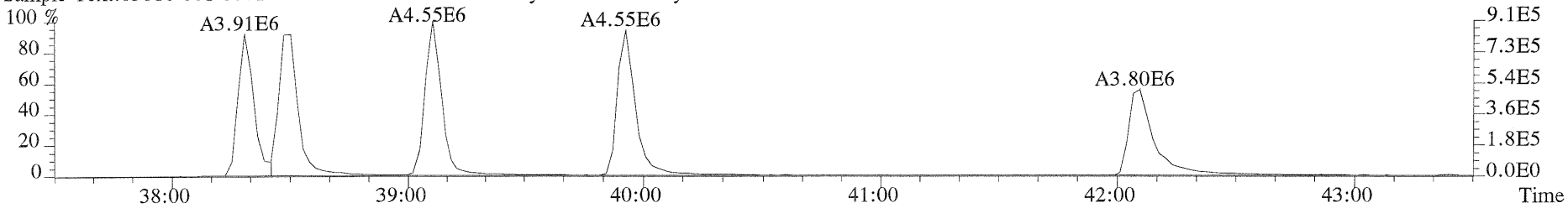
File:18AUG16Z #1-179 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



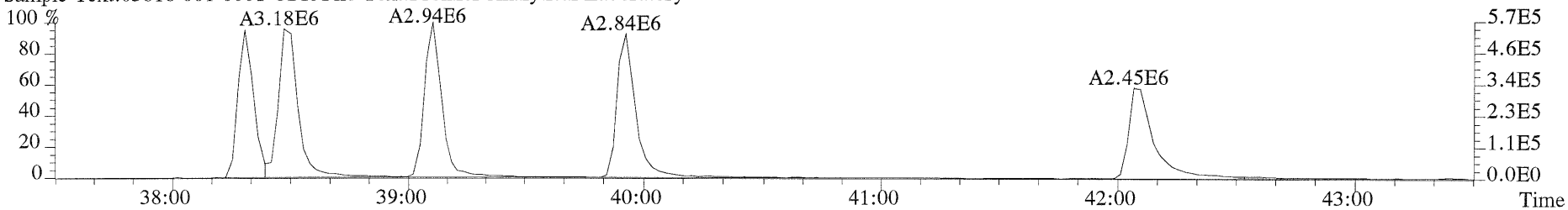
File:18AUG16Z #1-179 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
325.8804 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:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
327.8775 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:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



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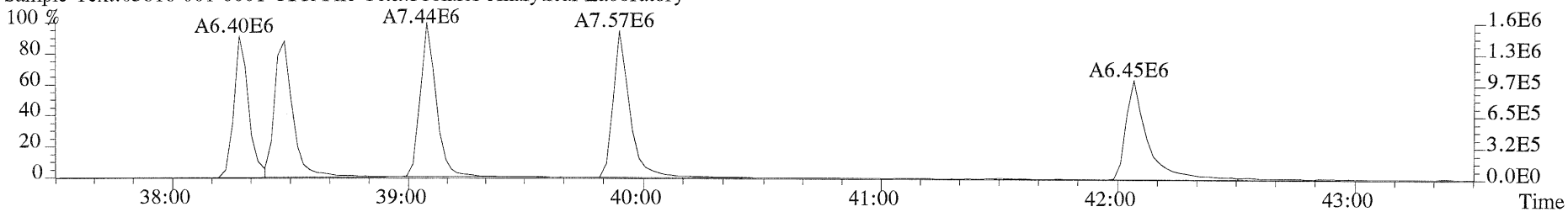
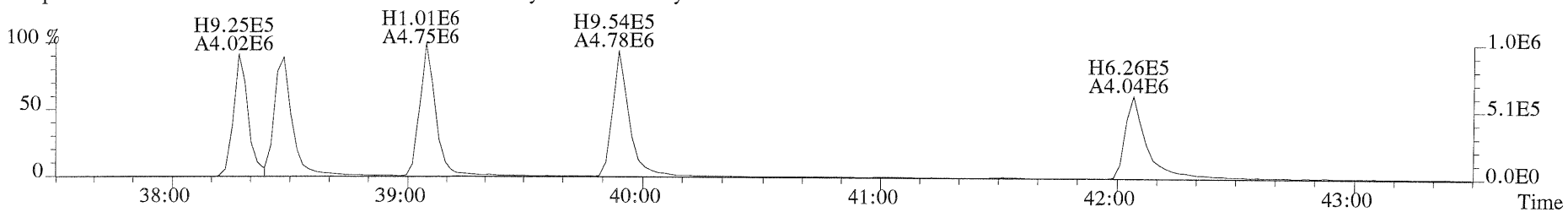
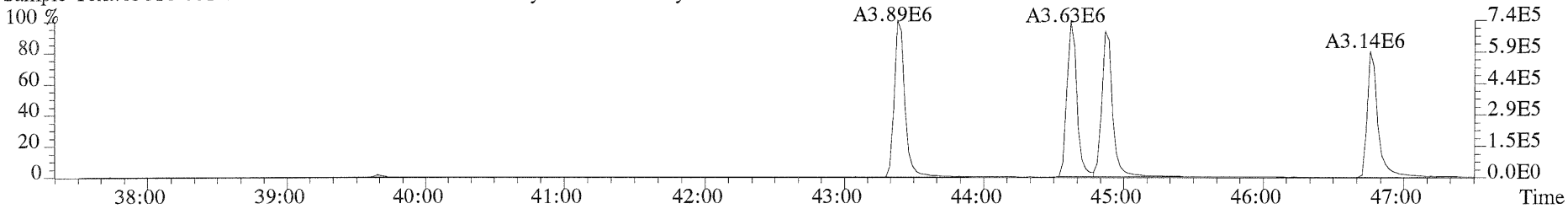
337.9207 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



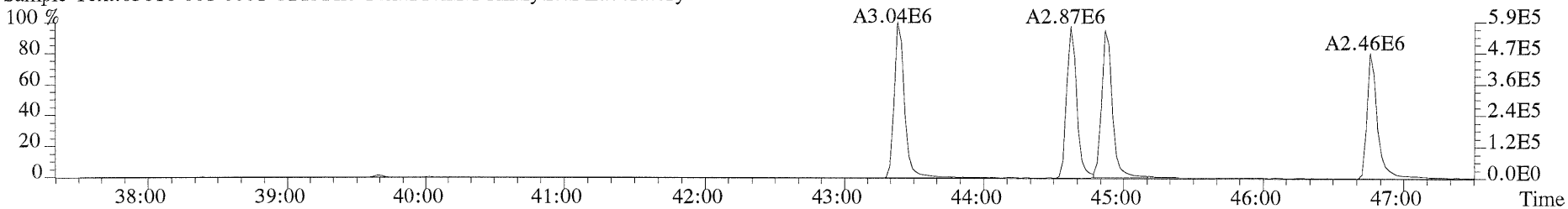
File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



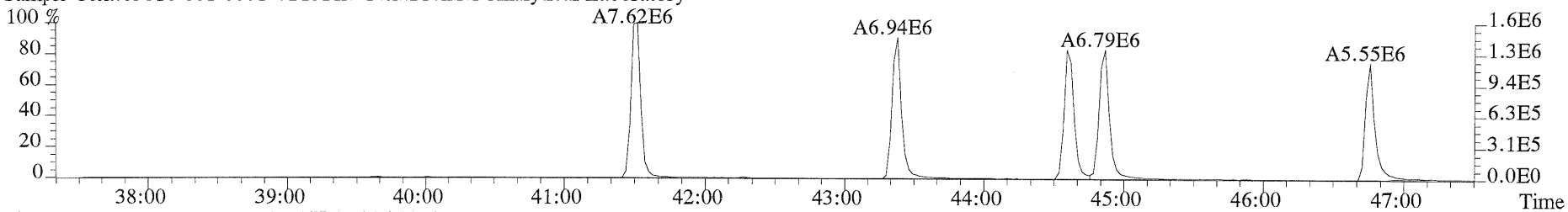
File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



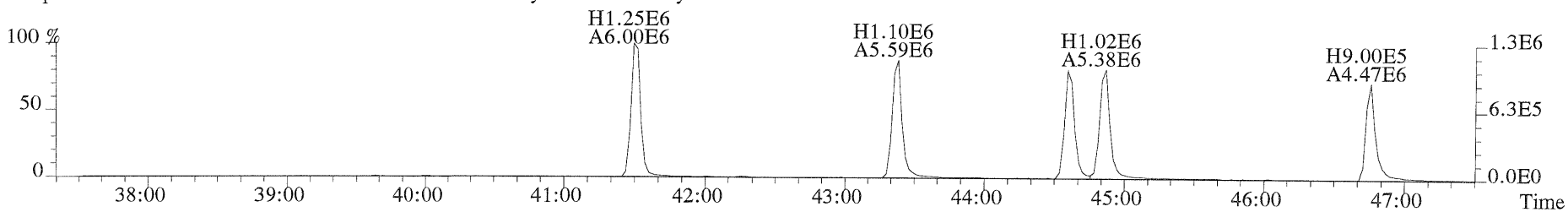
File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



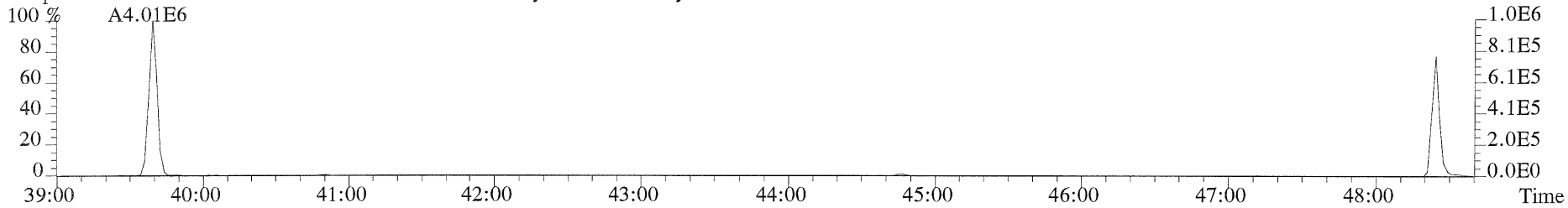
File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



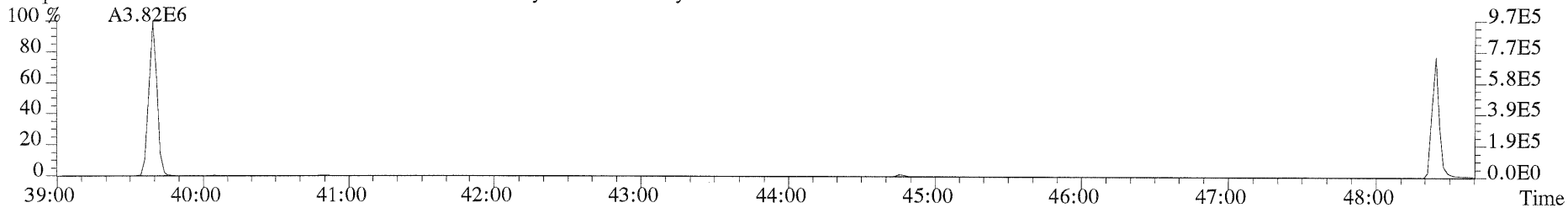
File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



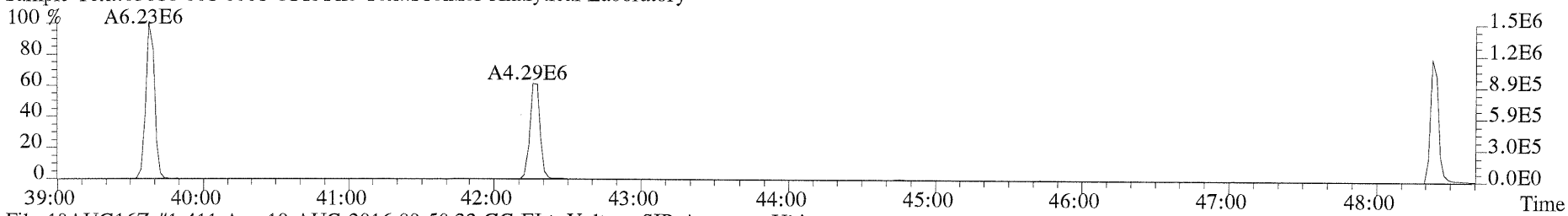
File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



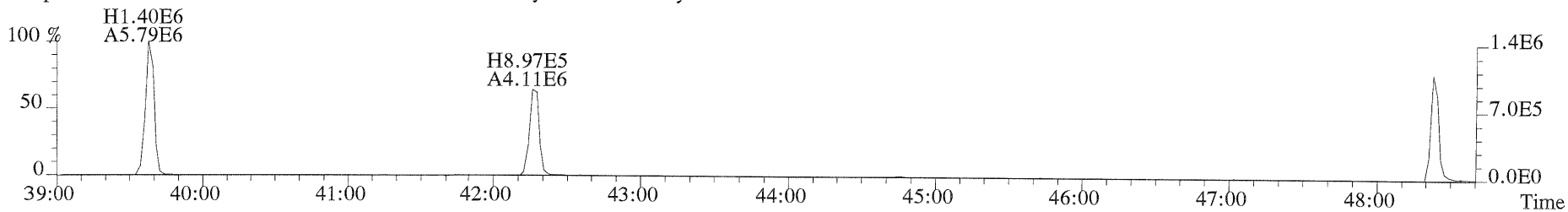
File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



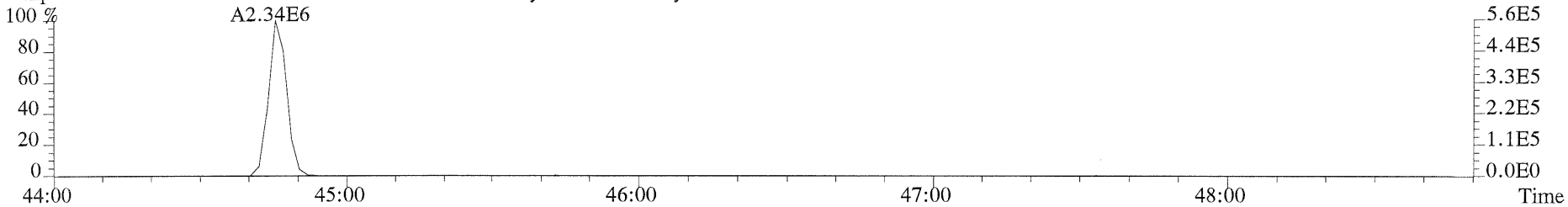
File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



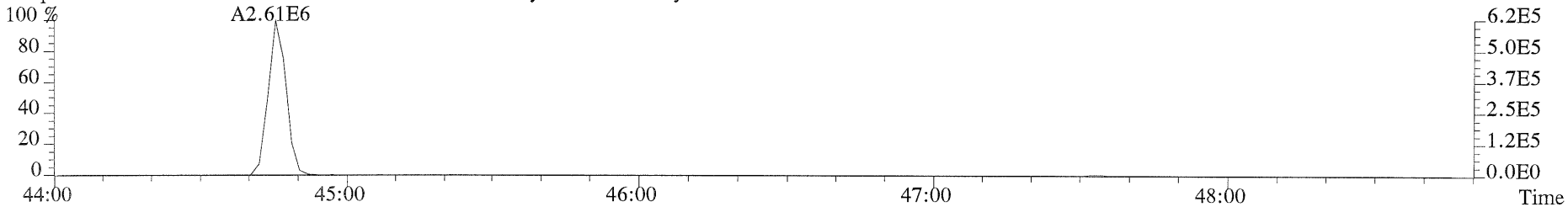
File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



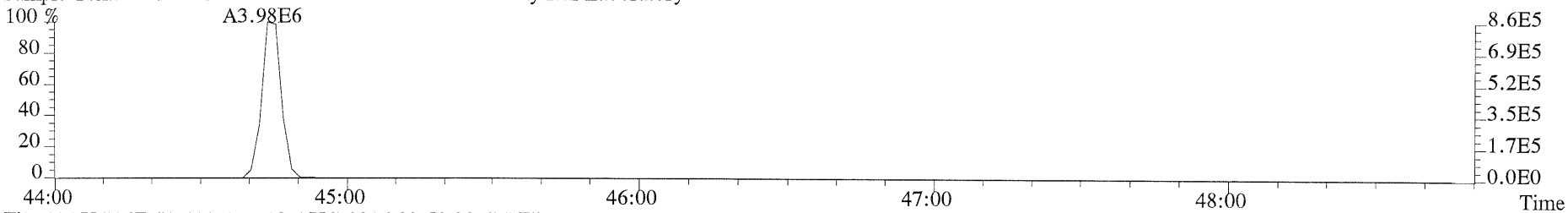
File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



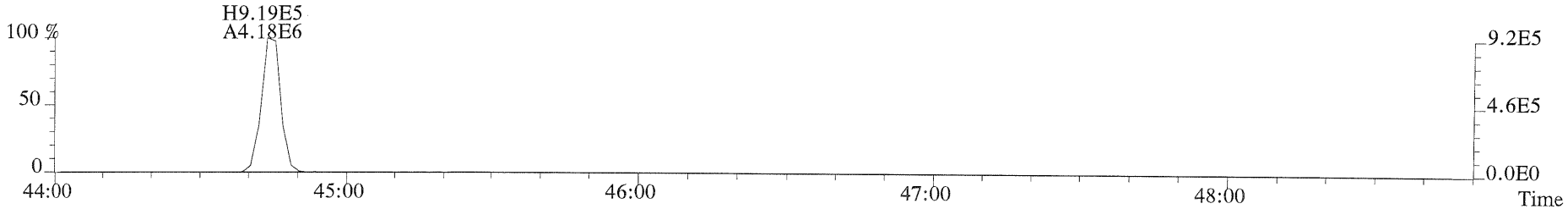
File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



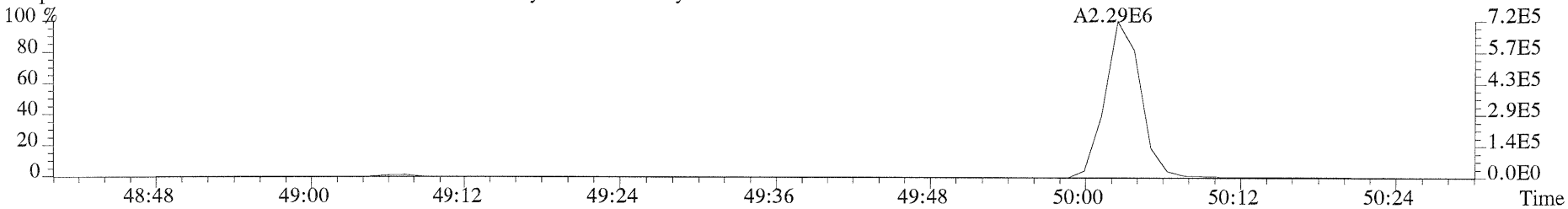
File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



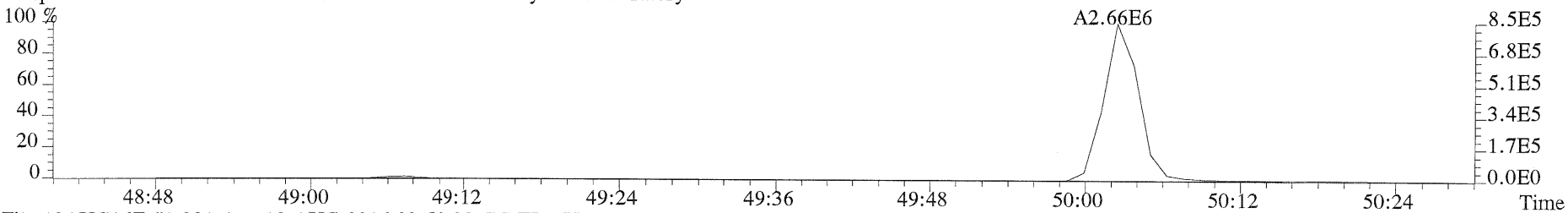
File:18AUG16Z #1-411 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



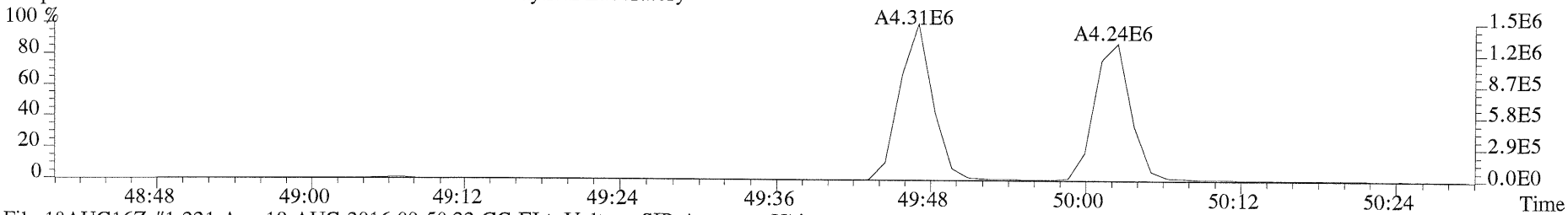
File:18AUG16Z #1-221 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



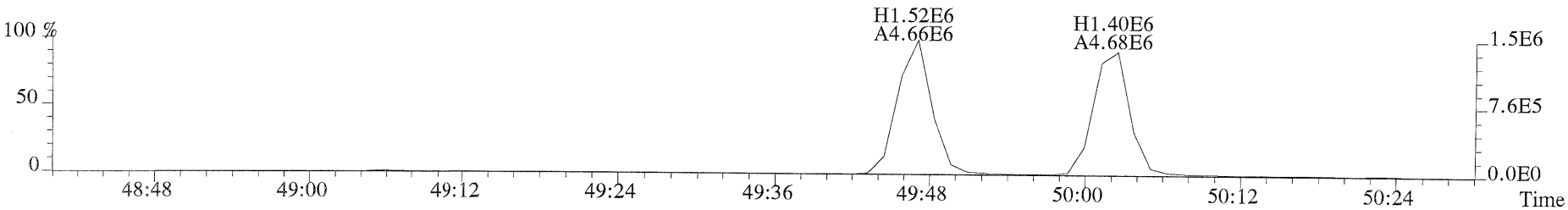
File:18AUG16Z #1-221 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



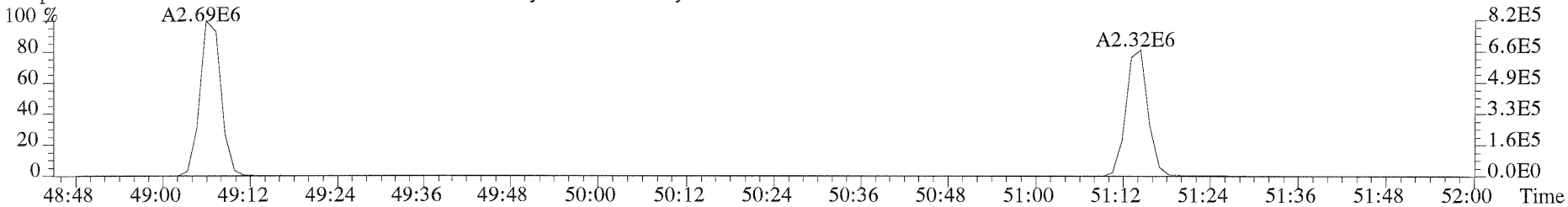
File:18AUG16Z #1-221 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



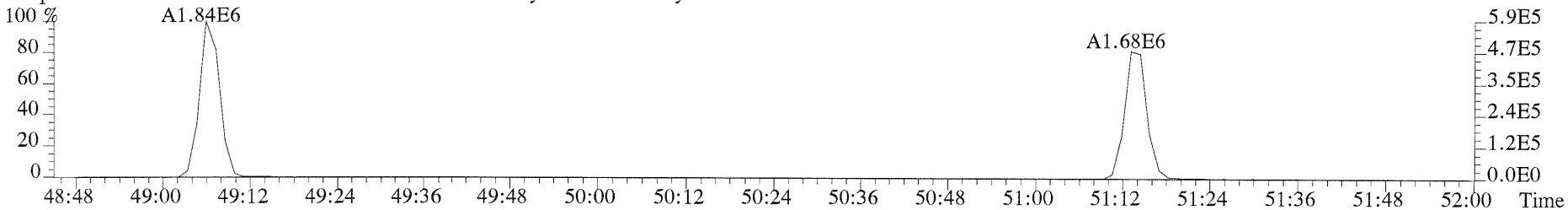
File:18AUG16Z #1-221 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



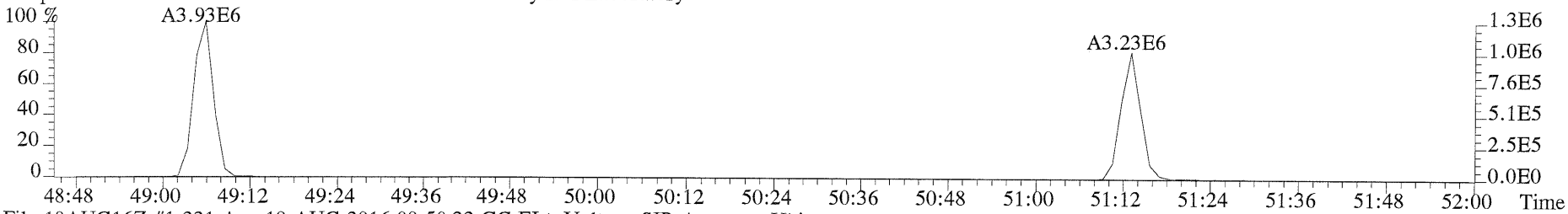
File:18AUG16Z #1-221 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



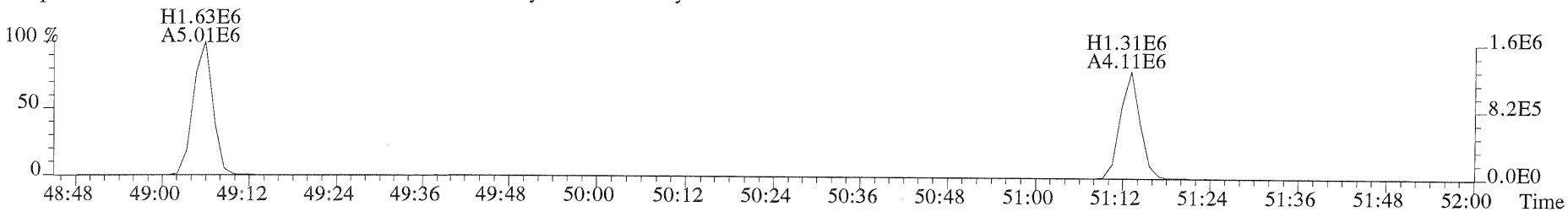
File:18AUG16Z #1-221 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



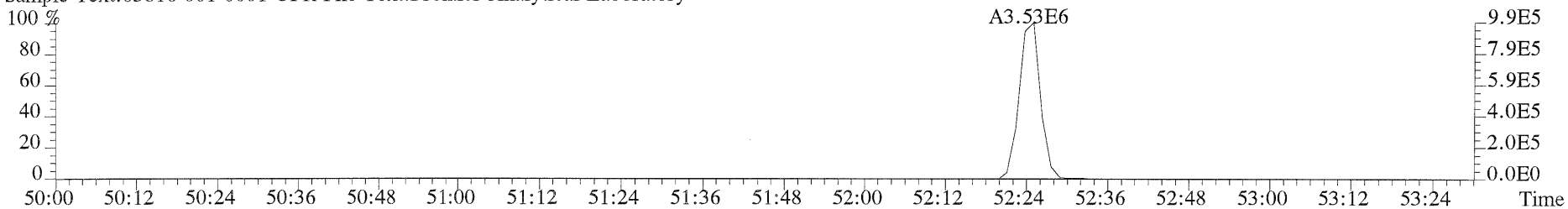
File:18AUG16Z #1-221 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



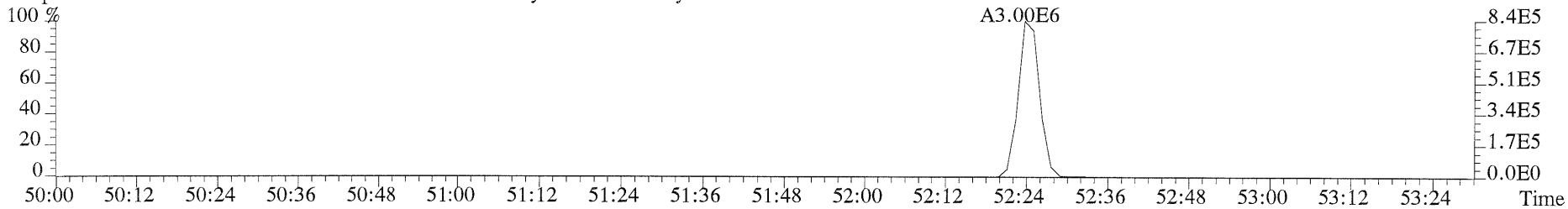
File:18AUG16Z #1-221 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



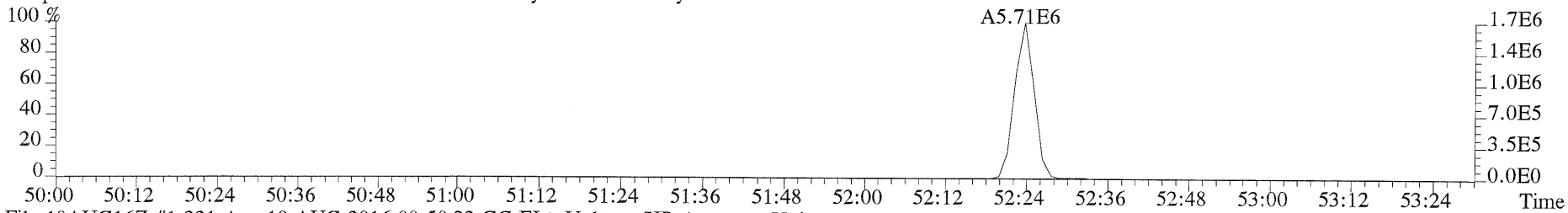
File:18AUG16Z #1-221 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



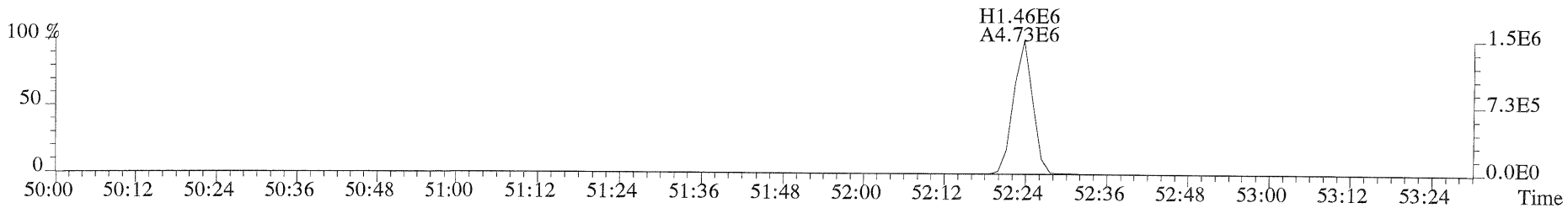
File:18AUG16Z #1-221 Acq:19-AUG-2016 00:50:32 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:9 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-221 Acq:19-AUG-2016 00:50:32 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:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-221 Acq:19-AUG-2016 00:50:32 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:03816-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 10051-001-X003-SA Filename: 18AUG16Z Sam:11 Acquired: 19-AUG-16 02:50:24 ICal: DAILY209FAL4-8-18-16
Client ID: LDW-BA-PC-ENRMATERIAL-GAC ConCal: ST081816Z1 EndCal: ST081816Z2
Results: 10051X GC Column: DB1 Amount: 5.000

Name	Resp	RA		RT	RRF	Conc	Qual	Noise-1	Noise-2	DL	Rec
PCB-1	*	*	n	NotFnd	1.04	*		423	333	0.688	
13C-PCB-1	2.11e+07	3.08	y	14:29	1.11	1440					71.9
PCB-2	*	*	n	NotFnd	0.90	*		423	333	0.976	
PCB-3	*	*	n	NotFnd	1.07	*		423	333	0.995	
13C-PCB-3	1.83e+07	3.05	y	16:57	1.03	1350					67.4
PCB-4	*	*	n	NotFnd	1.22	*		355	313	0.904	
PCB-10	*	*	n	NotFnd	1.42	*		355	313	0.930	
13C-PCB-4	1.28e+07	1.62	y	18:09	0.58	1680					84.0
PCB-9	*	*	n	NotFnd	1.42	*		355	313	0.933	
PCB-7	*	*	n	NotFnd	1.46	*		355	313	0.903	
PCB-6	*	*	n	NotFnd	1.49	*		355	313	0.888	
PCB-8	*	*	n	NotFnd	1.26	*		355	313	1.05	
PCB-5	*	*	n	NotFnd	1.50	*		355	313	0.881	
PCB-14	*	*	n	NotFnd	1.41	*		355	313	0.935	
PCB-11	2.60e+05	1.51	y	23:10	1.21	28.3	B	-	-	*	
PCB-13	*	*	n	NotFnd	1.13	*		355	313	1.17	
PCB-12	*	*	n	NotFnd	1.28	*		355	313	1.04	
PCB-15	*	*	n	NotFnd	1.26	*		355	313	1.17	
13C-PCB-15	1.78e+07	1.57	y	23:47	0.88	1520					76.2
PCB-19	*	*	n	NotFnd	1.07	*		456	368	1.54	
PCB-30	*	*	n	NotFnd	1.51	*		456	368	1.09	
PCB-18	*	*	n	NotFnd	1.00	*		456	368	1.64	
PCB-17	*	*	n	NotFnd	1.13	*		456	368	1.46	
PCB-27	*	*	n	NotFnd	1.41	*		456	368	1.16	
PCB-24	*	*	n	NotFnd	1.54	*		456	368	1.07	
PCB-16	*	*	n	NotFnd	1.27	*		456	368	1.29	
PCB-32	*	*	n	NotFnd	1.25	*		456	368	1.32	
13C-PCB-19	1.09e+07	1.09	y	22:02	0.59	1390					69.7
13C-PCB-9	2.64e+07	1.65	y	19:51	-	5.43					
PCB-34	*	*	n	NotFnd	1.08	*		301	188	1.76	
PCB-23	*	*	n	NotFnd	1.30	*		301	188	1.45	
PCB-29	*	*	n	NotFnd	1.22	*		301	188	1.55	
PCB-26	*	*	n	NotFnd	1.18	*		301	188	1.60	
PCB-25	*	*	n	NotFnd	1.51	*		301	188	1.25	
PCB-31	2.29e+04	1.10	y	26:37	1.18	2.97	J	-	-	*	
PCB-28	3.27e+04	1.18	y	26:42	1.49	3.38	J	-	-	*	
PCB-20	*	*	n	NotFnd	1.27	*		301	188	1.49	Co-elute PCB 21/33
PCB-21	*	*	n	NotFnd	1.27	*		301	188	1.49	Co-elute PCB 20/33
PCB-33	*	*	n	NotFnd	1.27	*		301	188	1.49	Co-elute PCB 20/21
PCB-22	*	*	n	NotFnd	1.26	*		301	188	1.50	
PCB-36	*	*	n	NotFnd	1.13	*		301	188	1.68	
PCB-39	*	*	n	NotFnd	1.13	*		301	188	1.68	
PCB-38	*	*	n	NotFnd	1.19	*		301	188	1.58	
PCB-35	*	*	n	NotFnd	1.04	*		301	188	1.82	
PCB-37	*	*	n	NotFnd	1.27	*		301	188	1.49	
13C-PCB-37	1.30e+07	0.96	y	30:27	1.22	1450					72.6

PCB-54	*	*	n	NotFnd	1.08	*	423	396	1.02	
PCB-50	*	*	n	NotFnd	0.79	*	423	396	1.41	
PCB-53	*	*	n	NotFnd	0.78	*	423	396	1.42	
PCB-51	*	*	n	NotFnd	0.78	*	423	396	1.42	
PCB-45	*	*	n	NotFnd	0.68	*	423	396	1.63	
PCB-46	*	*	n	NotFnd	0.65	*	423	396	1.71	
PCB-52	*	*	n	NotFnd	0.95	*	423	396	1.16	Co-elute PCB 69
PCB-69	*	*	n	NotFnd	0.95	*	423	396	1.16	Co-elute PCB 52
PCB-73	*	*	n	NotFnd	0.94	*	423	396	1.18	
PCB-43	*	*	n	NotFnd	0.73	*	423	396	1.51	Co-elute PCB 49
PCB-49	*	*	n	NotFnd	0.73	*	423	396	1.51	Co-elute PCB 43
PCB-47	*	*	n	NotFnd	0.89	*	423	396	1.24	
PCB-48	*	*	n	NotFnd	0.93	*	423	396	1.19	Co-elute PCB 75
PCB-75	*	*	n	NotFnd	0.93	*	423	396	1.19	Co-elute PCB 48
PCB-65	*	*	n	NotFnd	0.96	*	423	396	1.15	
PCB-62	*	*	n	NotFnd	0.88	*	423	396	1.25	
PCB-44	*	*	n	NotFnd	0.66	*	423	396	1.68	
PCB-42	*	*	n	NotFnd	0.90	*	423	396	1.23	Co-elute PCB 59
PCB-59	*	*	n	NotFnd	0.90	*	423	396	1.23	Co-elute PCB 42
PCB-72	*	*	n	NotFnd	0.96	*	423	396	1.15	Co-elute PCB 41/71/64
PCB-41	*	*	n	NotFnd	0.96	*	423	396	1.15	Co-elute PCB 72/71/64
PCB-71	*	*	n	NotFnd	0.96	*	423	396	1.15	Co-elute PCB 72/41/64
PCB-64	*	*	n	NotFnd	0.96	*	423	396	1.15	Co-elute PCB 72/41/71
PCB-68	*	*	n	NotFnd	0.99	*	423	396	1.12	
PCB-40	*	*	n	NotFnd	0.57	*	423	396	1.92	
PCB-57	*	*	n	NotFnd	0.95	*	423	396	1.16	
PCB-67	*	*	n	NotFnd	0.87	*	423	396	1.27	
PCB-58	*	*	n	NotFnd	1.00	*	423	396	1.11	
PCB-63	*	*	n	NotFnd	0.95	*	423	396	1.16	
PCB-74	*	*	n	NotFnd	0.97	*	423	396	1.14	
PCB-61	*	*	n	NotFnd	1.02	*	423	396	1.08	Co-elute PCB 70
PCB-70	*	*	n	NotFnd	1.02	*	423	396	1.08	Co-elute PCB 61
PCB-76	*	*	n	NotFnd	1.00	*	423	396	1.11	Co-elute PCB 66
PCB-66	*	*	n	NotFnd	1.00	*	423	396	1.11	Co-elute PCB 76
PCB-80	*	*	n	NotFnd	1.08	*	423	396	1.02	
PCB-55	*	*	n	NotFnd	0.98	*	423	396	1.13	
13C-PCB-54	1.52e+07	0.79	y	25:34	1.24	1660				83.2
PCB-104	*	*	n	NotFnd	1.14	*	201	312	0.920	
PCB-96	*	*	n	NotFnd	1.01	*	201	312	1.03	
PCB-103	*	*	n	NotFnd	0.88	*	201	312	1.18	
PCB-100	*	*	n	NotFnd	0.84	*	201	312	1.24	
PCB-94	*	*	n	NotFnd	0.70	*	201	312	1.49	
PCB-98	*	*	n	NotFnd	0.92	*	201	312	1.14	Co-elute PCB 102
PCB-102	*	*	n	NotFnd	0.92	*	201	312	1.14	Co-elute PCB 98
PCB-95	*	*	n	NotFnd	0.78	*	201	312	1.35	
PCB-93	*	*	n	NotFnd	0.65	*	201	312	1.60	
PCB-88	*	*	n	NotFnd	0.79	*	201	312	1.33	Co-elute PCB 91
PCB-91	*	*	n	NotFnd	0.79	*	201	312	1.33	Co-elute PCB 88
PCB-121	*	*	n	NotFnd	0.98	*	201	312	1.07	
13C-PCB-104	9.65e+06	1.63	y	29:60	0.87	1520				75.8
13C-PCB-28	1.87e+07	1.10	y	26:41	1.47	1740				87.2
13C-PCB-52	1.47e+07	0.78	y	28:55	-	5.26				

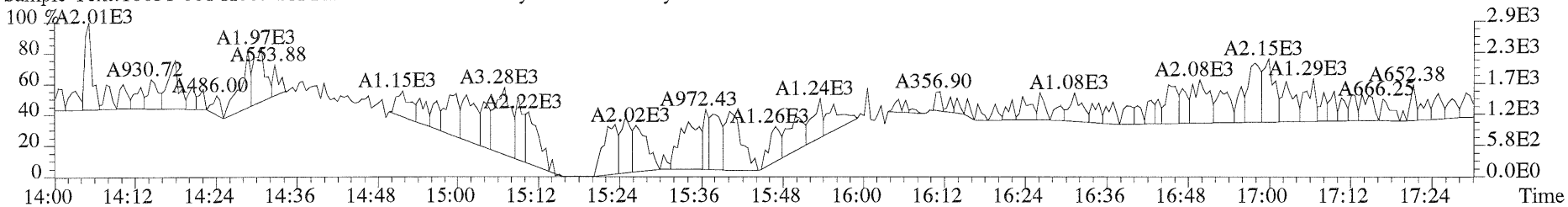
PCB-56	*	*	n	NotFnd	1.24	*	212	266	1.35	Co-elute PCB 60
PCB-60	*	*	n	NotFnd	1.24	*	212	266	1.35	Co-elute PCB 56
PCB-79	*	*	n	NotFnd	1.14	*	212	266	1.46	
PCB-78	*	*	n	NotFnd	1.08	*	212	266	1.55	
PCB-81	*	*	n	NotFnd	1.18	*	212	266	1.15	
13C-PCB-81	1.18e+07	0.79	y	36:10	1.07	1690				84.7
PCB-77	*	*	n	NotFnd	1.08	*	212	266	1.85	
13C-PCB-77	1.08e+07	0.80	y	36:45	1.09	1530				76.6
PCB-155	*	*	n	NotFnd	1.07	*	244	224	0.793	
PCB-150	*	*	n	NotFnd	0.98	*	244	224	0.870	
PCB-152	*	*	n	NotFnd	0.97	*	244	224	0.880	
PCB-145	*	*	n	NotFnd	0.93	*	244	224	0.917	
PCB-136	*	*	n	NotFnd	0.95	*	244	224	0.898	
PCB-148	*	*	n	NotFnd	0.66	*	244	224	1.29	
PCB-154	*	*	n	NotFnd	0.79	*	244	224	1.08	
13C-PCB-155	1.11e+07	1.26	y	34:08	1.06	1600				80.2
13C-PCB-111	1.39e+07	1.57	y	36:15	1.13	1890				94.6
13C-PCB-101	1.30e+07	1.61	y	34:36	-	5.26				
PCB-84	*	*	n	NotFnd	0.84	*	199	261	1.48	Co-elute PCB 92
PCB-92	*	*	n	NotFnd	0.84	*	199	261	1.48	Co-elute PCB 84
PCB-89	*	*	n	NotFnd	0.84	*	199	261	1.48	
PCB-90	*	*	n	NotFnd	0.96	*	199	261	1.29	Co-elute PCB 101
PCB-101	*	*	n	NotFnd	0.96	*	199	261	1.29	Co-elute PCB 90
PCB-113	*	*	n	NotFnd	1.15	*	199	261	1.08	
PCB-99	*	*	n	NotFnd	0.96	*	199	261	1.30	
PCB-119	*	*	n	NotFnd	1.22	*	199	261	1.01	
PCB-83	*	*	n	NotFnd	0.99	*	199	261	1.26	Co-elute PCB 112
PCB-112	*	*	n	NotFnd	0.99	*	199	261	1.26	Co-elute PCB 83
PCB-109	*	*	n	NotFnd	1.14	*	199	261	1.09	
PCB-97	*	*	n	NotFnd	1.00	*	199	261	1.24	
PCB-86	*	*	n	NotFnd	0.79	*	199	261	1.57	
PCB-125	*	*	n	NotFnd	1.11	*	199	261	1.12	Co-elute PCB 87/117
PCB-87	*	*	n	NotFnd	1.11	*	199	261	1.12	Co-elute PCB 125/117
PCB-117	*	*	n	NotFnd	1.11	*	199	261	1.12	Co-elute PCB 125/87
PCB-111	*	*	n	NotFnd	1.32	*	199	261	0.937	Co-elute PCB 115
PCB-115	*	*	n	NotFnd	1.32	*	199	261	0.937	Co-elute PCB 111
PCB-85	*	*	n	NotFnd	1.03	*	199	261	1.20	Co-elute PCB 116
PCB-116	*	*	n	NotFnd	1.03	*	199	261	1.20	Co-elute PCB 85
PCB-120	*	*	n	NotFnd	1.24	*	199	261	0.998	
PCB-110	*	*	n	NotFnd	1.27	*	199	261	0.974	
PCB-82	*	*	n	NotFnd	0.70	*	199	261	1.78	
PCB-124	*	*	n	NotFnd	1.10	*	213	233	1.10	
PCB-108	*	*	n	NotFnd	1.17	*	213	233	1.03	Co-elute PCB 107
PCB-107	*	*	n	NotFnd	1.17	*	213	233	1.03	Co-elute PCB 108
PCB-123	*	*	n	NotFnd	1.24	*	213	233	1.01	
13C-PCB-123	8.84e+06	1.63	y	38:19	1.09	1450				72.4
PCB-118	*	*	n	NotFnd	1.08	*	213	233	0.985	Co-elute PCB 106
PCB-106	*	*	n	NotFnd	1.08	*	213	233	0.985	Co-elute PCB 118
13C-PCB-118	1.14e+07	1.62	y	38:28	1.19	1710				85.7
PCB-114	*	*	n	NotFnd	1.08	*	213	233	1.13	
13C-PCB-114	1.02e+07	1.61	y	39:05	1.11	1640				81.8
PCB-122	*	*	n	NotFnd	1.13	*	213	233	1.06	
PCB-105	*	*	n	NotFnd	1.13	*	213	233	1.15	
13C-PCB-105	1.04e+07	1.68	y	39:54	1.14	1650				82.3

PCB-127	*	*	n	NotFnd	1.03	*	213	233	1.17	
PCB-126	*	*	n	NotFnd	1.14	*	213	233	1.79	
13C-PCB-126	8.55e+06	1.57	y	42:06	0.97	1570				78.6
PCB-151	*	*	n	NotFnd	0.86	*	208	215	1.27	
PCB-135	*	*	n	NotFnd	0.94	*	208	215	1.17	
PCB-144	*	*	n	NotFnd	0.91	*	208	215	1.20	
PCB-147	*	*	n	NotFnd	0.94	*	208	215	1.16	
PCB-139	*	*	n	NotFnd	0.97	*	208	215	1.13	Co-elute PCB 149
PCB-149	*	*	n	NotFnd	0.97	*	208	215	1.13	Co-elute PCB 139
PCB-140	*	*	n	NotFnd	0.92	*	208	215	1.20	
PCB-143	*	*	n	NotFnd	0.87	*	208	215	1.26	Co-elute PCB 134
PCB-134	*	*	n	NotFnd	0.87	*	208	215	1.26	Co-elute PCB 143
PCB-131	*	*	n	NotFnd	0.88	*	208	215	1.25	Co-elute PCB 133
PCB-133	*	*	n	NotFnd	0.88	*	208	215	1.25	Co-elute PCB 131
PCB-142	*	*	n	NotFnd	0.77	*	208	215	1.42	
PCB-165	*	*	n	NotFnd	1.05	*	208	215	1.04	Co-elute PCB 146
PCB-146	*	*	n	NotFnd	1.05	*	208	215	1.04	Co-elute PCB 165
PCB-161	*	*	n	NotFnd	0.99	*	208	215	1.11	Co-elute PCB 132
PCB-132	*	*	n	NotFnd	0.99	*	208	215	1.11	Co-elute PCB 161
PCB-153	*	*	n	NotFnd	1.02	*	208	215	1.07	
PCB-168	*	*	n	NotFnd	1.15	*	208	215	0.952	
PCB-141	*	*	n	NotFnd	0.88	*	208	215	1.25	
PCB-137	*	*	n	NotFnd	0.86	*	208	215	1.28	
PCB-130	*	*	n	NotFnd	0.71	*	208	215	1.53	
PCB-138	*	*	n	NotFnd	1.14	*	208	215	0.965	Co-elute PCB 163/164
PCB-163	*	*	n	NotFnd	1.14	*	208	215	0.965	Co-elute PCB 138/164
PCB-164	*	*	n	NotFnd	1.14	*	208	215	0.965	Co-elute PCB 138/163
PCB-158	*	*	n	NotFnd	1.12	*	208	215	0.978	Co-elute PCB 160
PCB-160	*	*	n	NotFnd	1.12	*	208	215	0.978	Co-elute PCB 158
PCB-129	*	*	n	NotFnd	0.69	*	208	215	1.60	
PCB-166	*	*	n	NotFnd	1.05	*	208	215	1.04	
PCB-159	*	*	n	NotFnd	1.13	*	208	215	0.975	
PCB-128	*	*	n	NotFnd	0.94	*	208	215	1.17	Co-elute PCB 162
PCB-162	*	*	n	NotFnd	0.94	*	208	215	1.17	Co-elute PCB 128
PCB-167	*	*	n	NotFnd	0.96	*	208	215	0.943	
13C-PCB-167	1.13e+07	1.25	y	43:23	1.14	1770				88.6
PCB-156	*	*	n	NotFnd	1.04	*	208	215	0.978	
13C-PCB-156	1.00e+07	1.27	y	44:37	1.07	1670				83.7
PCB-157	*	*	n	NotFnd	0.96	*	208	215	1.08	
13C-PCB-157	1.12e+07	1.23	y	44:52	1.09	1850				92.7
PCB-169	*	*	n	NotFnd	0.92	*	208	215	1.64	
13C-PCB-169	8.72e+06	1.27	y	46:46	0.92	1690				84.4

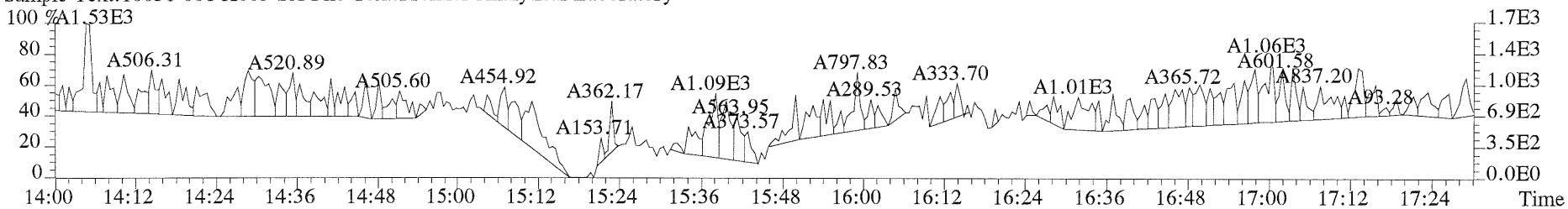
PCB-188	*	*	n	NotFnd	1.12	*	308	276	1.03	
13C-PCB-188	1.12e+07	1.08	y	39:38	1.25	1610				80.5
PCB-184	*	*	n	NotFnd	1.35	*	308	276	0.988	
PCB-179	*	*	n	NotFnd	1.29	*	308	276	1.03	
PCB-176	*	*	n	NotFnd	1.22	*	308	276	1.10	
PCB-186	*	*	n	NotFnd	1.23	*	308	276	1.08	
PCB-178	*	*	n	NotFnd	0.86	*	308	276	1.55	
PCB-175	*	*	n	NotFnd	0.91	*	308	276	1.47	
PCB-187	*	*	n	NotFnd	0.99	*	308	276	1.36	Co-elute PCB 182
PCB-182	*	*	n	NotFnd	0.99	*	308	276	1.36	Co-elute PCB 187
PCB-183	*	*	n	NotFnd	0.97	*	308	276	1.38	
PCB-185	*	*	n	NotFnd	0.86	*	308	276	1.55	
PCB-174	*	*	n	NotFnd	0.87	*	308	276	1.54	
PCB-181	*	*	n	NotFnd	0.89	*	308	276	1.51	
PCB-177	*	*	n	NotFnd	0.79	*	308	276	1.70	
PCB-171	*	*	n	NotFnd	0.83	*	308	276	1.62	
PCB-173	*	*	n	NotFnd	0.74	*	308	276	1.80	
PCB-172	*	*	n	NotFnd	0.76	*	308	276	1.75	
PCB-192	*	*	n	NotFnd	1.05	*	308	276	1.27	
PCB-180	*	*	n	NotFnd	1.01	*	308	276	1.33	
PCB-193	*	*	n	NotFnd	1.11	*	308	276	1.21	
PCB-191	*	*	n	NotFnd	1.02	*	308	276	1.31	
PCB-170	*	*	n	NotFnd	0.68	*	308	276	1.98	
PCB-190	*	*	n	NotFnd	0.97	*	308	276	1.37	
PCB-189	*	*	n	NotFnd	1.09	*	308	276	1.48	
13C-PCB-189	7.39e+06	1.08	y	48:24	0.82	1620				81.0
PCB-202	*	*	n	NotFnd	1.00	*	189	202	1.15	
PCB-201	*	*	n	NotFnd	0.99	*	189	202	1.17	
PCB-204	*	*	n	NotFnd	1.03	*	189	202	1.12	
PCB-197	*	*	n	NotFnd	1.06	*	189	202	1.09	
PCB-200	*	*	n	NotFnd	0.99	*	189	202	1.17	
PCB-198	*	*	n	NotFnd	0.70	*	189	202	1.66	
PCB-199	*	*	n	NotFnd	0.61	*	189	202	1.89	
PCB-203	*	*	n	NotFnd	0.70	*	189	202	1.66	Co-elute PCB 196
PCB-196	*	*	n	NotFnd	0.70	*	189	202	1.66	Co-elute PCB 203
13C-PCB-202	7.17e+06	0.92	y	44:45	0.89	1440				72.0
13C-PCB-178	7.61e+06	1.05	y	42:17	0.81	1680				84.2
13C-PCB-138	1.12e+07	1.27	y	41:31	-	5.32				
PCB-195	*	*	n	NotFnd	0.75	*	232	260	1.38	
PCB-194	*	*	n	NotFnd	0.81	*	232	260	1.27	
PCB-205	*	*	n	NotFnd	1.03	*	232	260	1.00	
13C-PCB-205	7.53e+06	0.90	y	50:02	1.25	1860				93.2
PCB-208	*	*	n	NotFnd	0.92	*	204	232	0.887	
13C-PCB-208	7.89e+06	0.77	y	49:06	1.37	1780				88.9
PCB-207	*	*	n	NotFnd	1.01	*	204	232	0.914	
PCB-206	*	*	n	NotFnd	0.99	*	204	232	1.05	
13C-PCB-206	6.49e+06	0.80	y	51:13	0.92	2190				109
PCB-209	*	*	n	NotFnd	1.07	*	212	204	0.676	
13C-PCB-209	9.40e+06	1.21	y	52:24	1.43	2030				102
13C-PCB-194	6.46e+06	0.90	y	49:47	-	4.66				

Analyst: [illegible] Date: 8/23/16

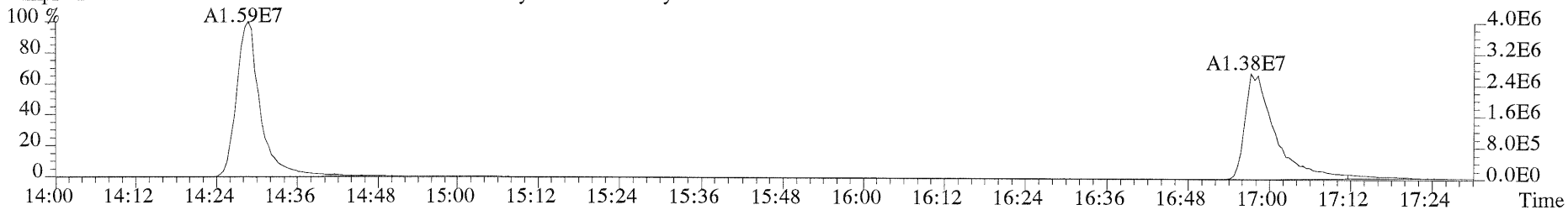
File:18AUG16Z #1-901 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



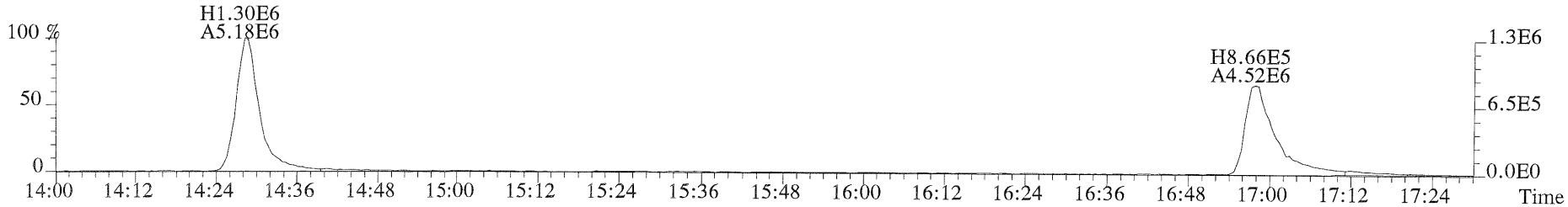
File:18AUG16Z #1-901 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



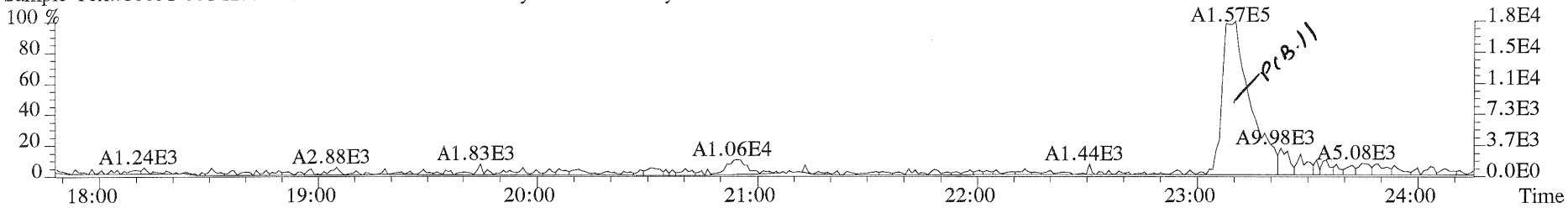
File:18AUG16Z #1-901 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



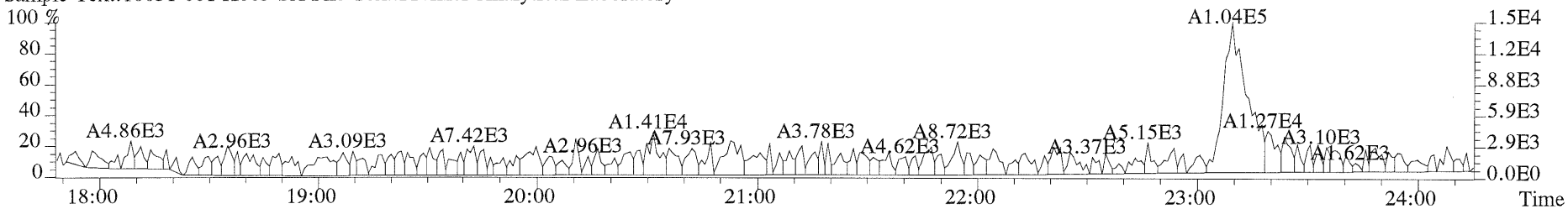
File:18AUG16Z #1-901 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:11 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



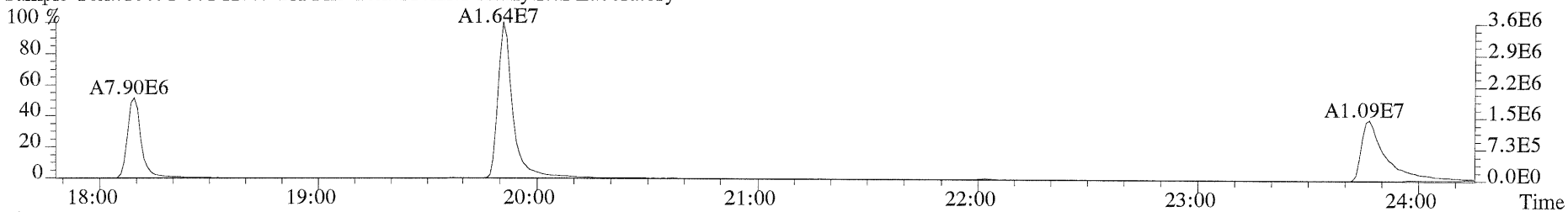
File:18AUG16Z #1-509 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



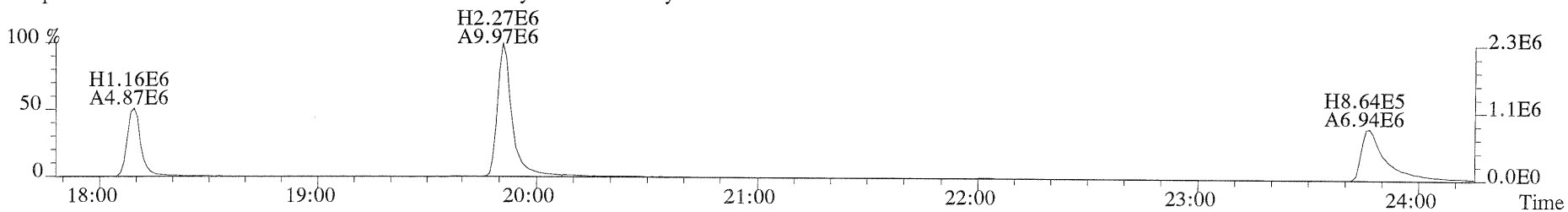
File:18AUG16Z #1-509 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



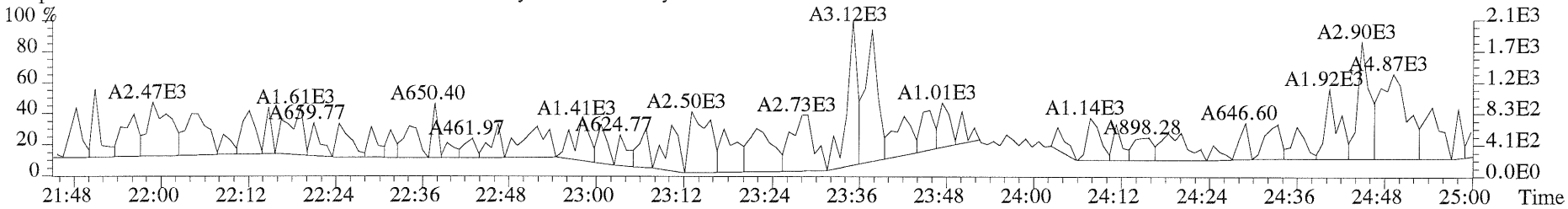
File:18AUG16Z #1-509 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



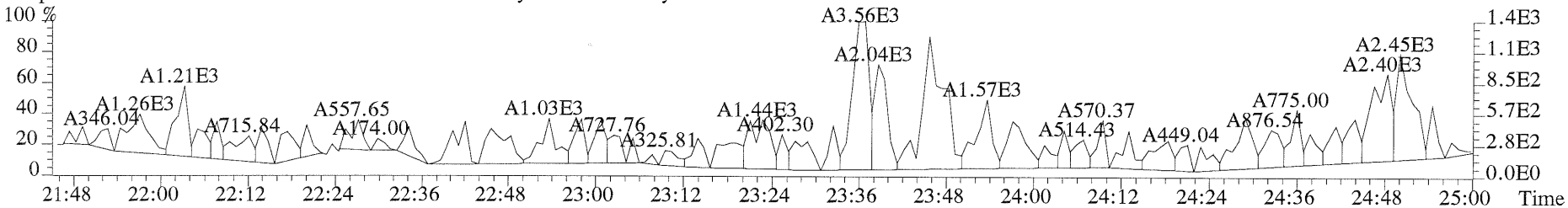
File:18AUG16Z #1-509 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



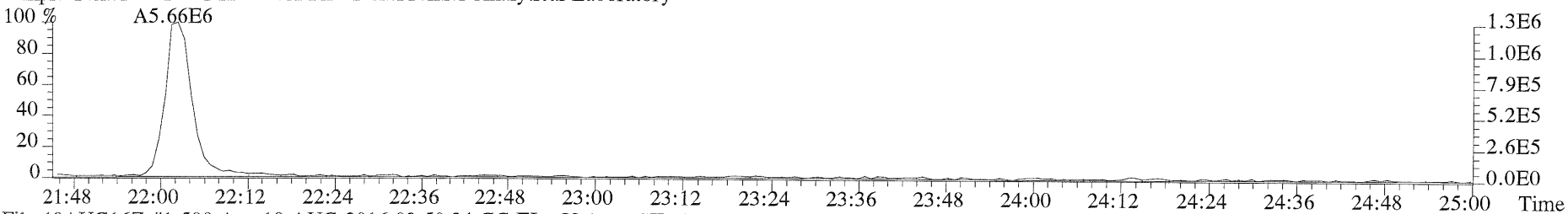
File:18AUG16Z #1-509 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-509 Acq:19-AUG-2016 02:50:24 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:10051-001-X003-SA File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-509 Acq:19-AUG-2016 02:50:24 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:10051-001-X003-SA File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-509 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
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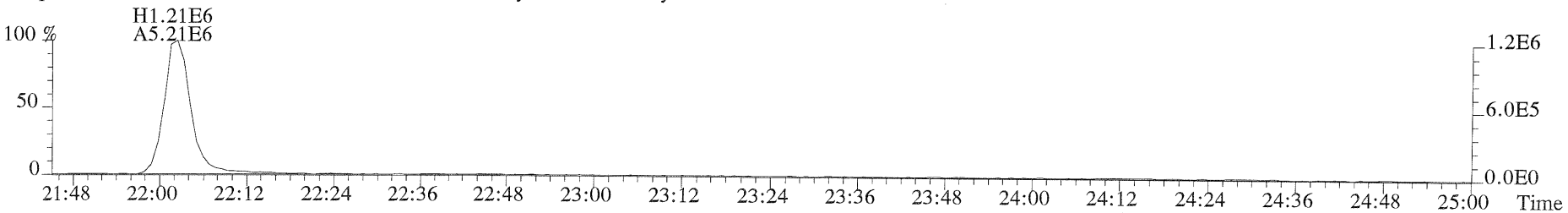
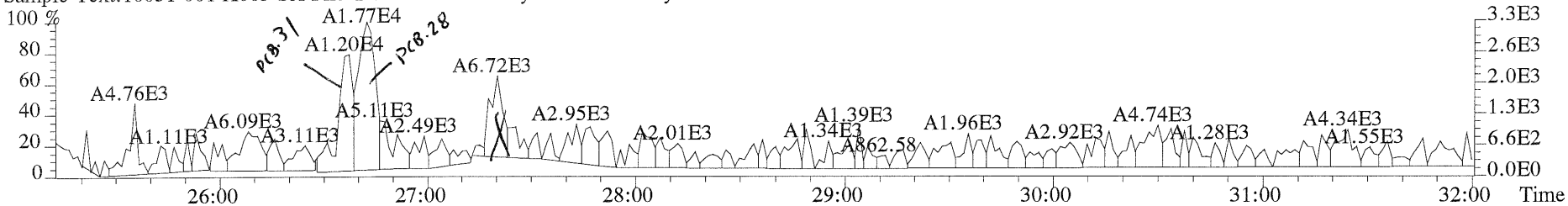
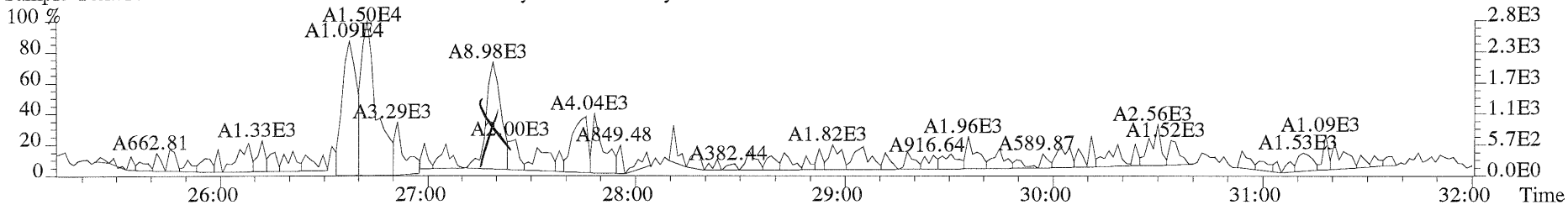
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



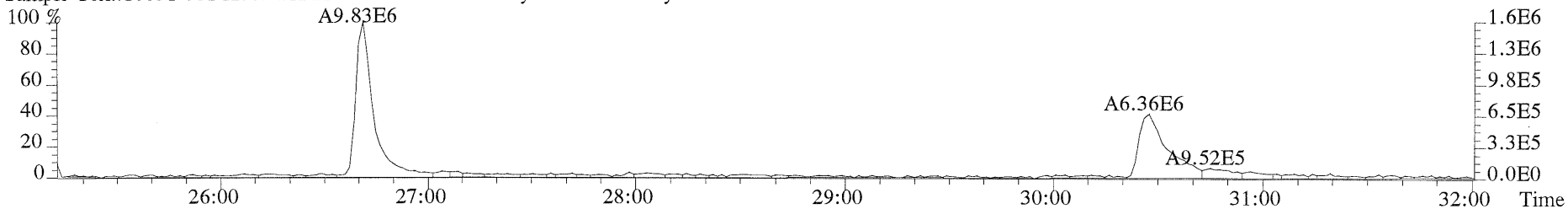
File:18AUG16Z #1-403 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



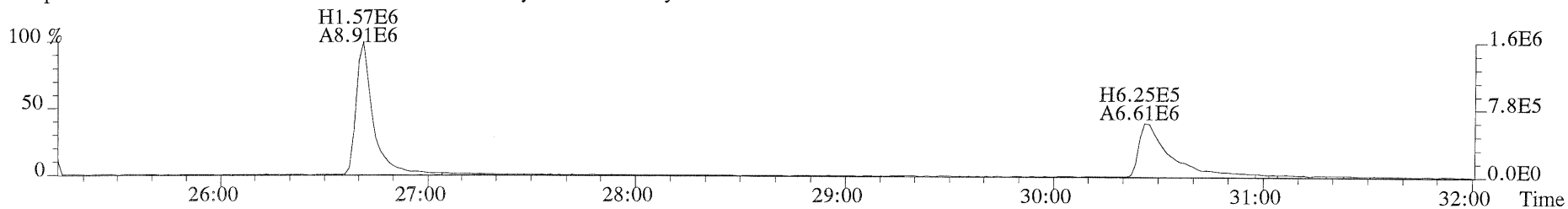
File:18AUG16Z #1-403 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



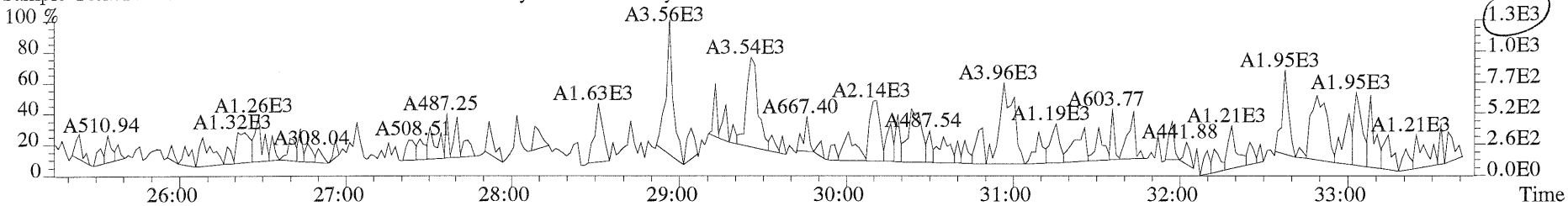
File:18AUG16Z #1-403 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



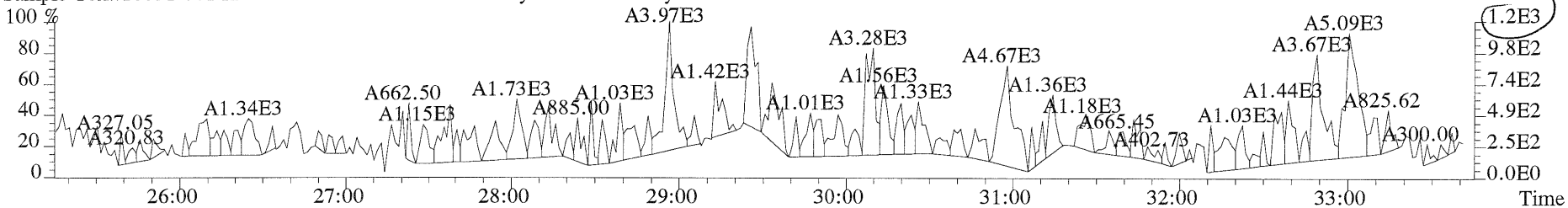
File:18AUG16Z #1-403 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:11 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



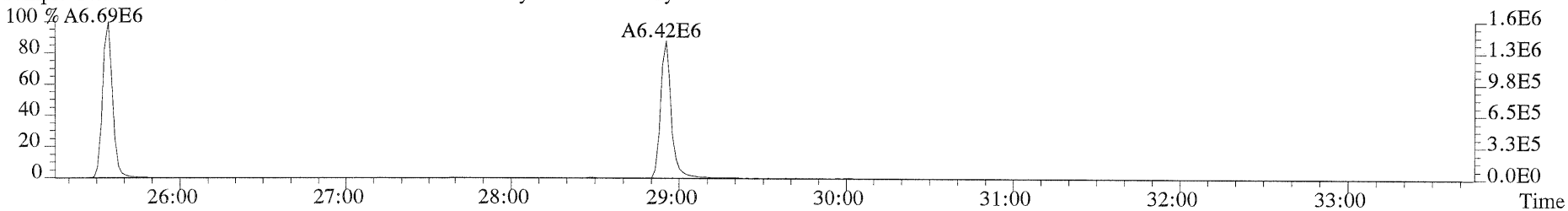
File:18AUG16Z #1-403 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



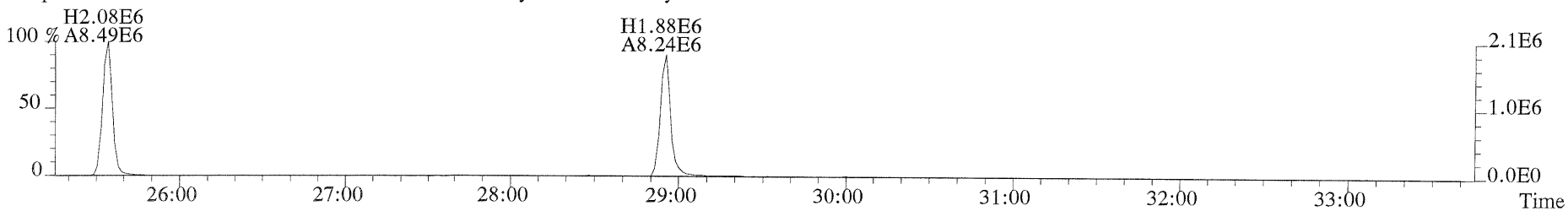
File:18AUG16Z #1-403 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



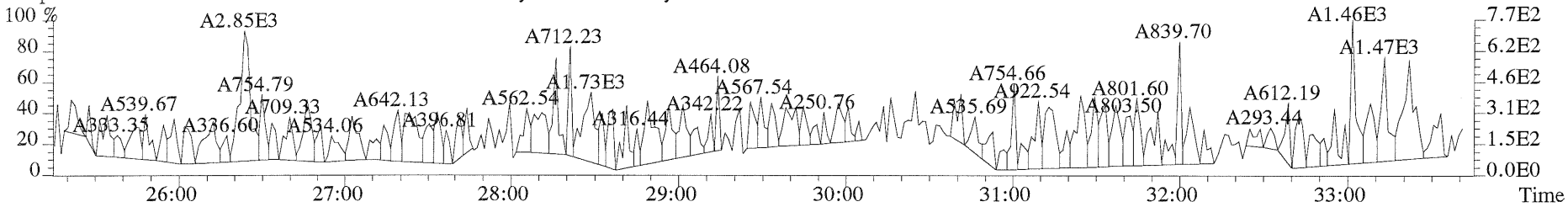
File:18AUG16Z #1-403 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



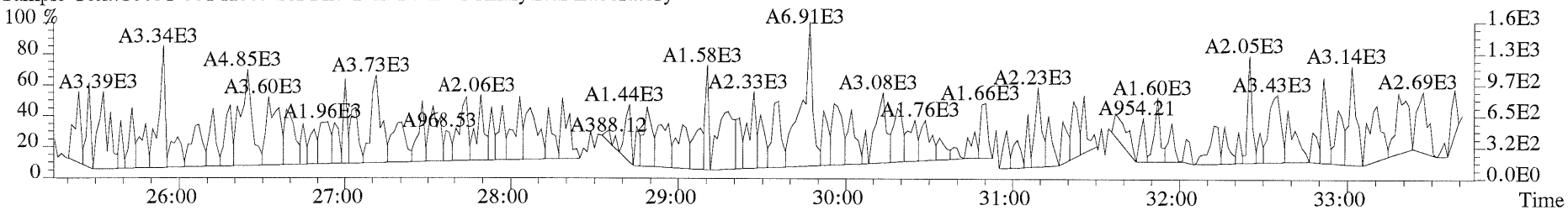
File:18AUG16Z #1-403 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



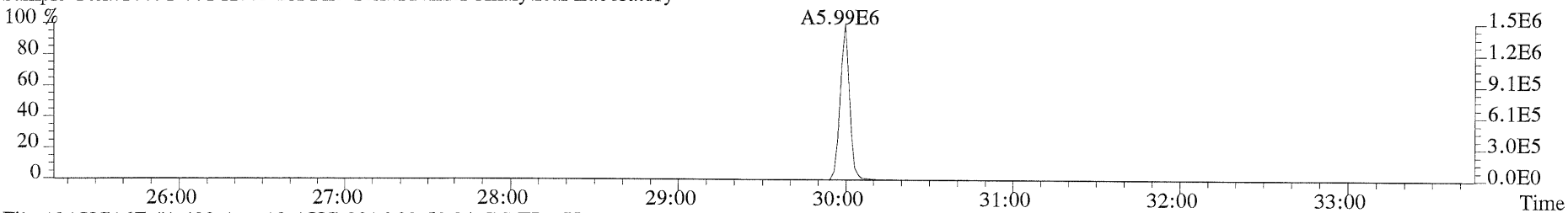
File:18AUG16Z #1-403 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



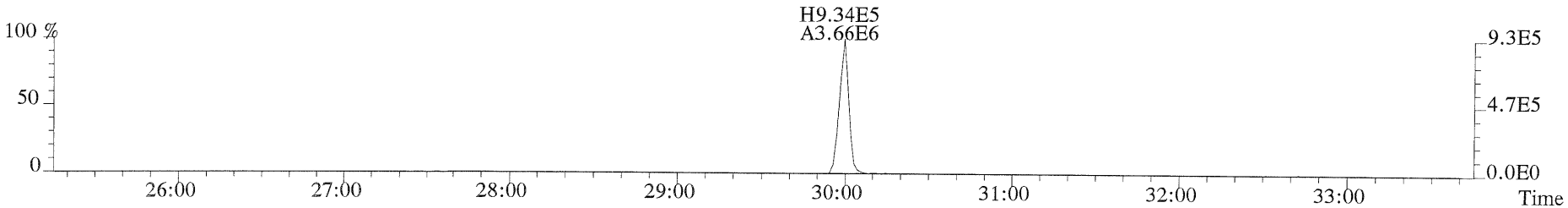
File:18AUG16Z #1-403 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



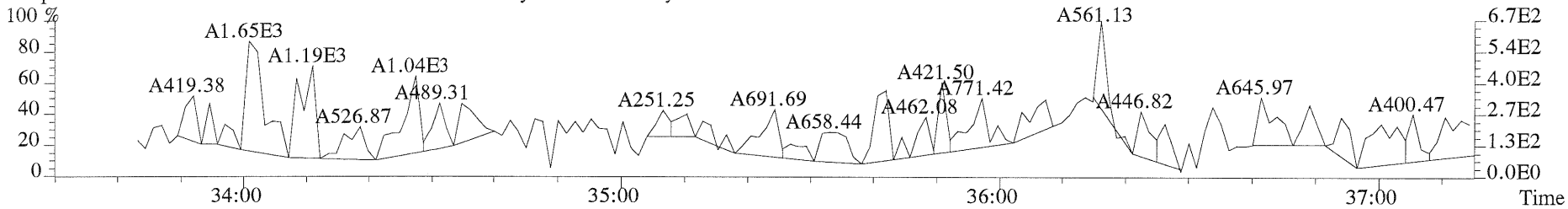
File:18AUG16Z #1-403 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



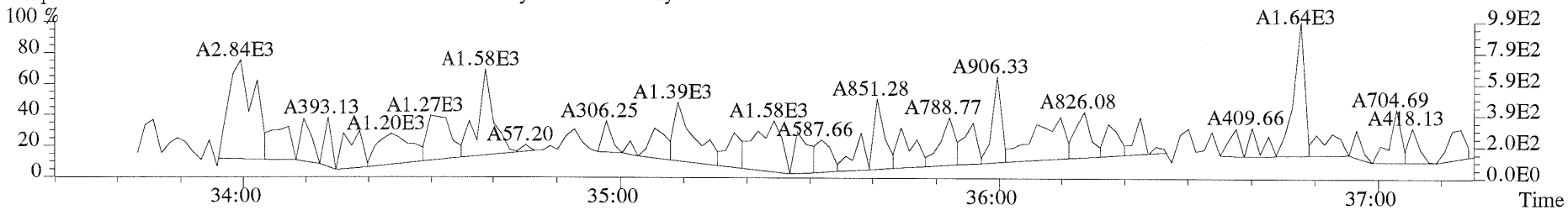
File:18AUG16Z #1-403 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



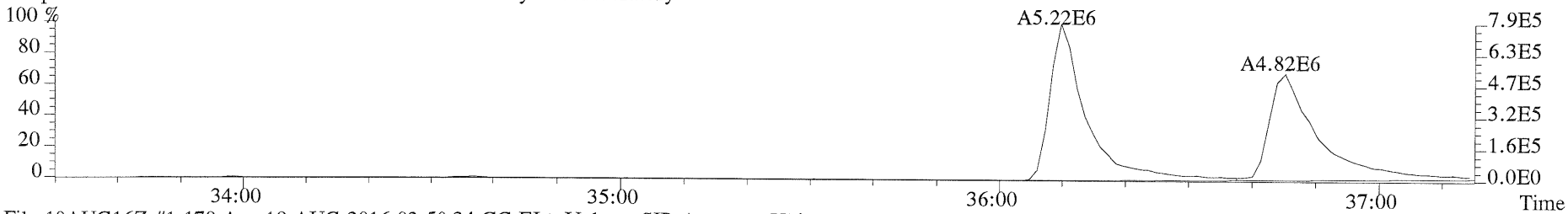
File:18AUG16Z #1-179 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



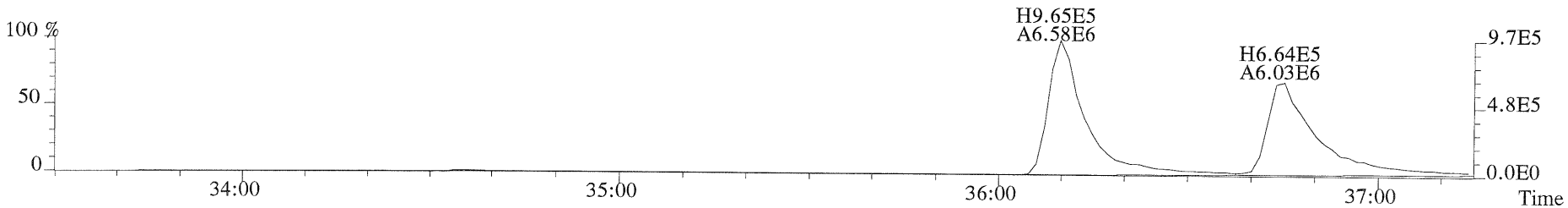
File:18AUG16Z #1-179 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



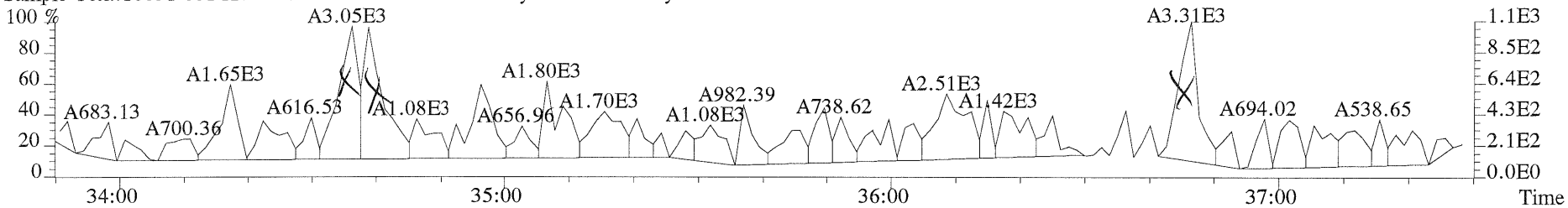
File:18AUG16Z #1-179 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



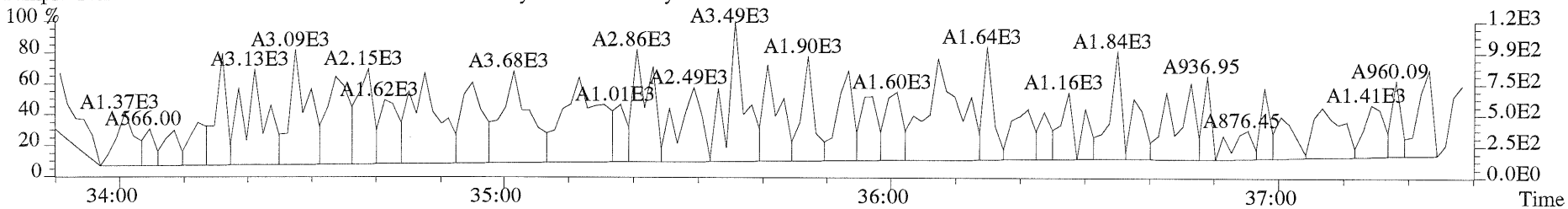
File:18AUG16Z #1-179 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



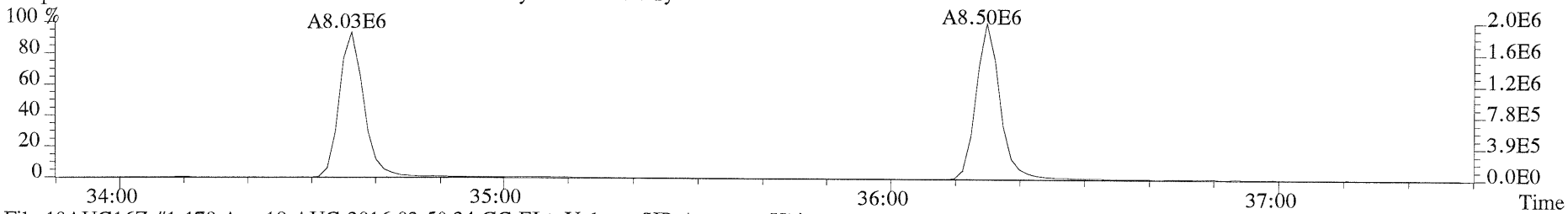
File:18AUG16Z #1-179 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



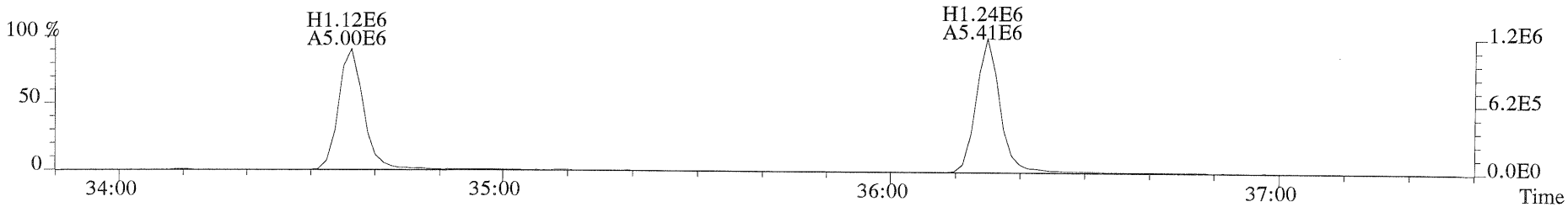
File:18AUG16Z #1-179 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



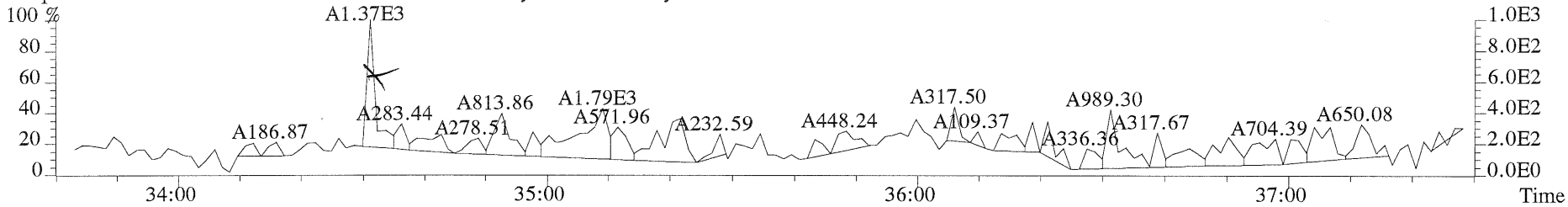
File:18AUG16Z #1-179 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



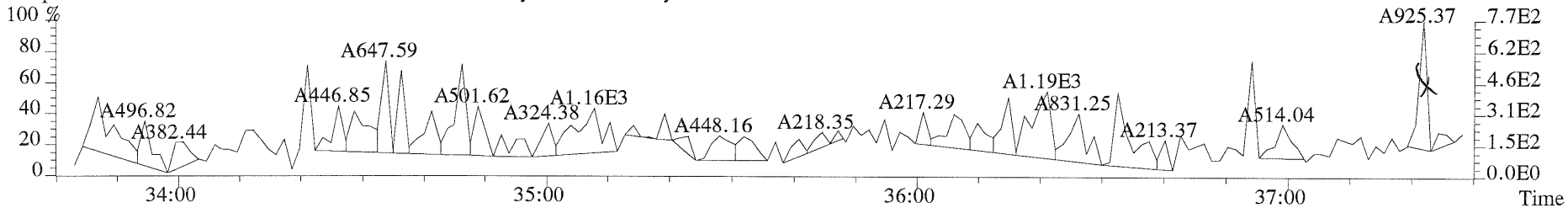
File:18AUG16Z #1-179 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



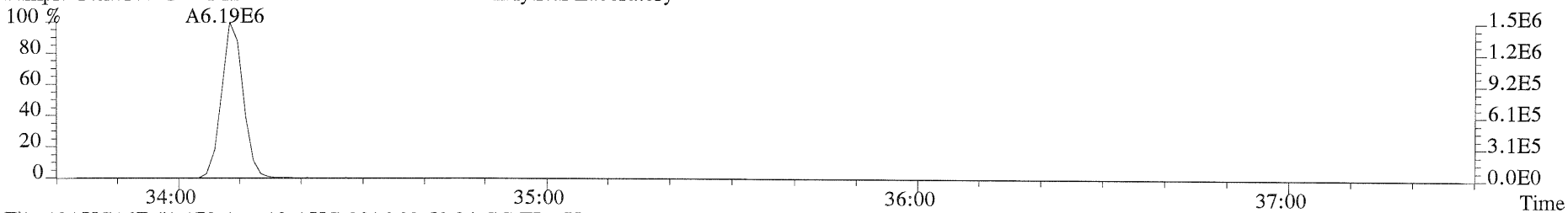
File:18AUG16Z #1-179 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



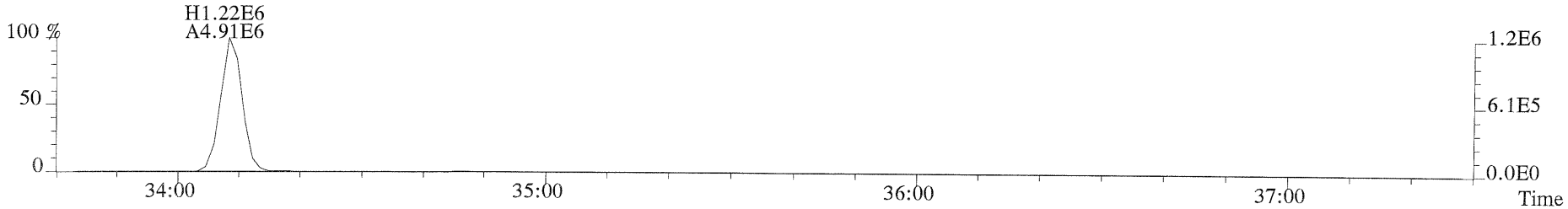
File:18AUG16Z #1-179 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



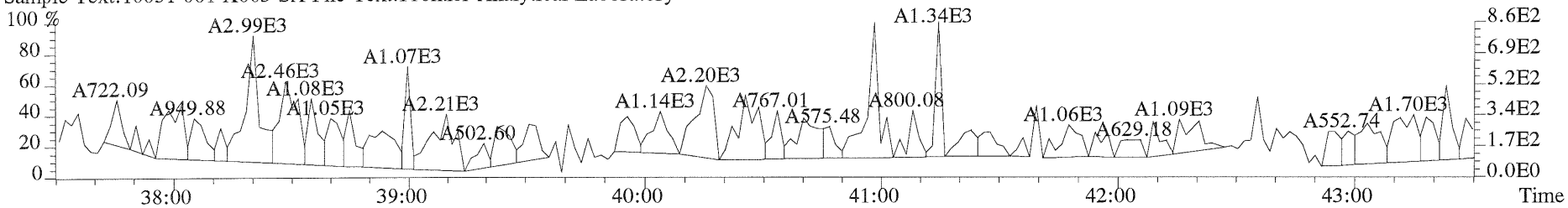
File:18AUG16Z #1-179 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



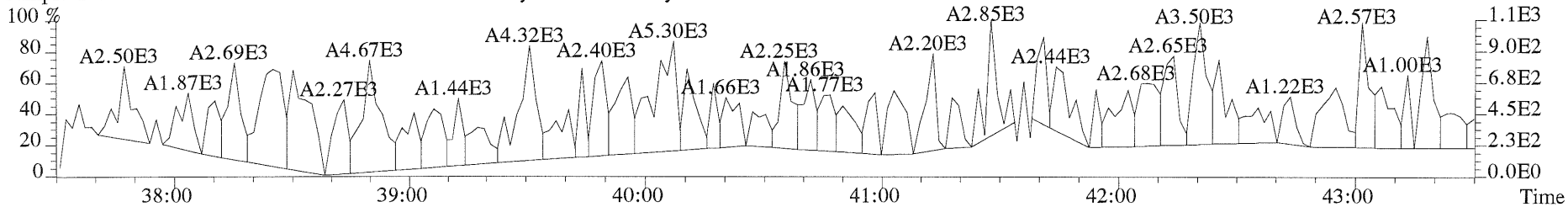
File:18AUG16Z #1-179 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



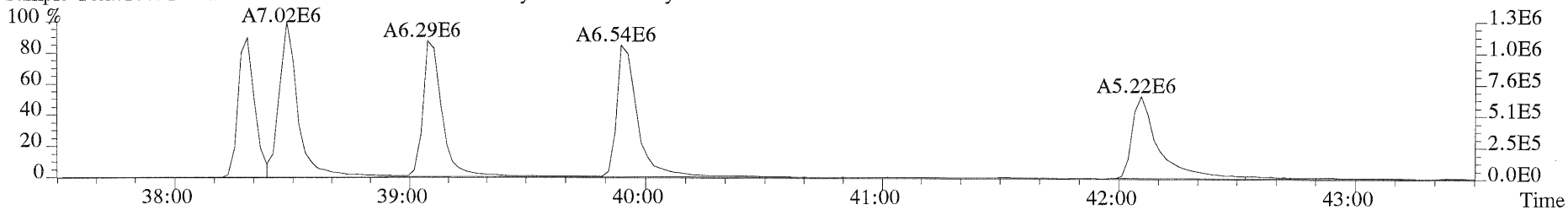
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



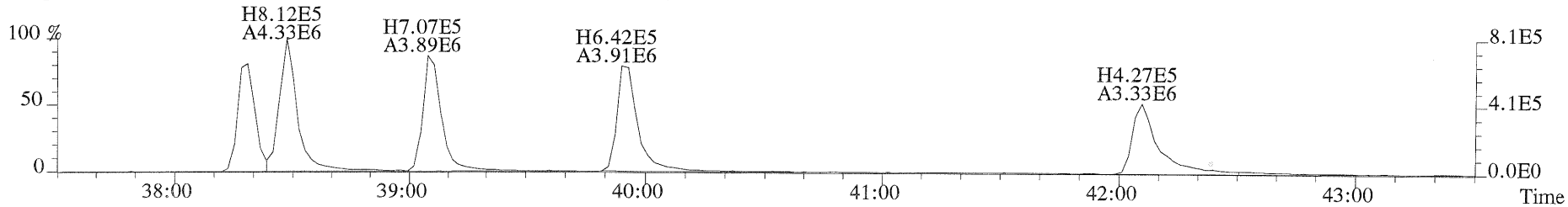
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



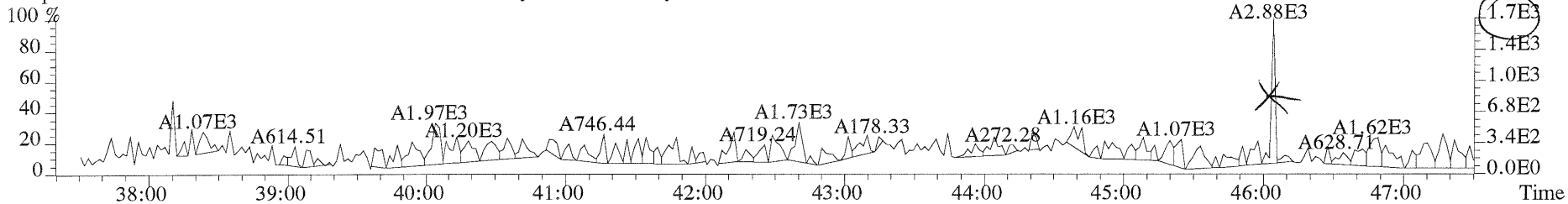
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



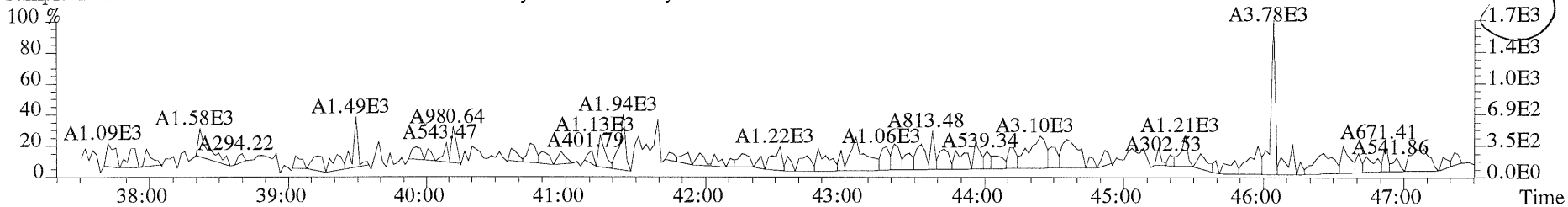
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



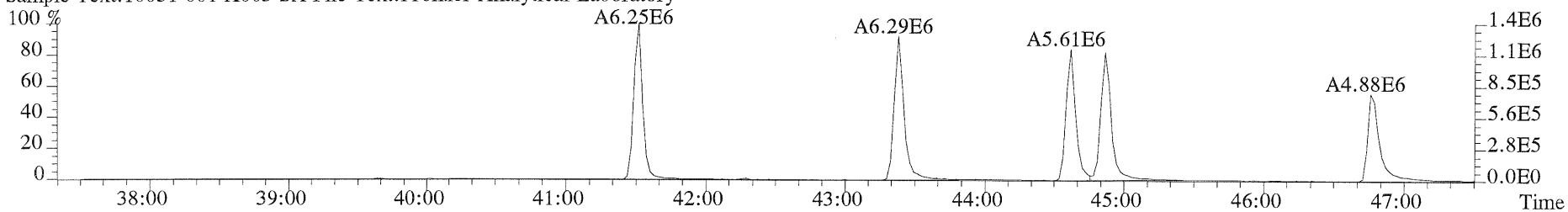
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



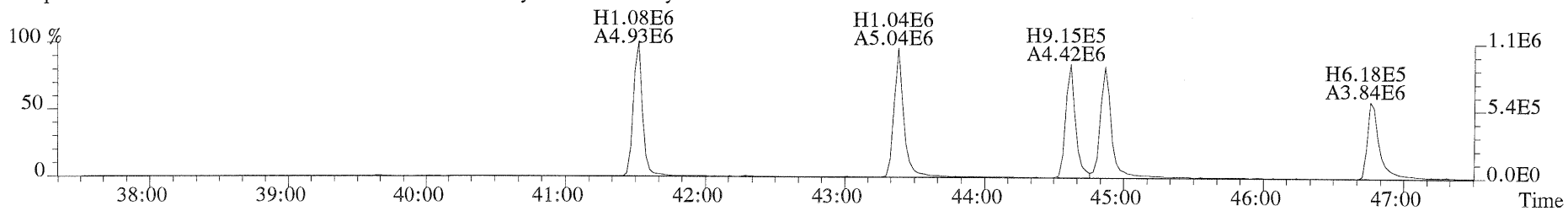
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



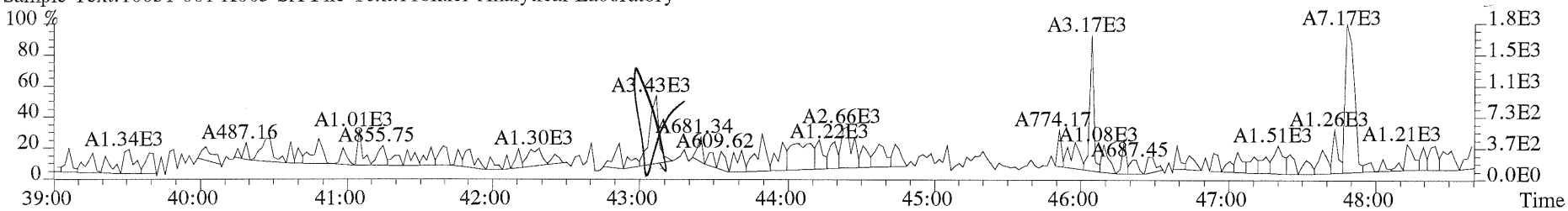
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



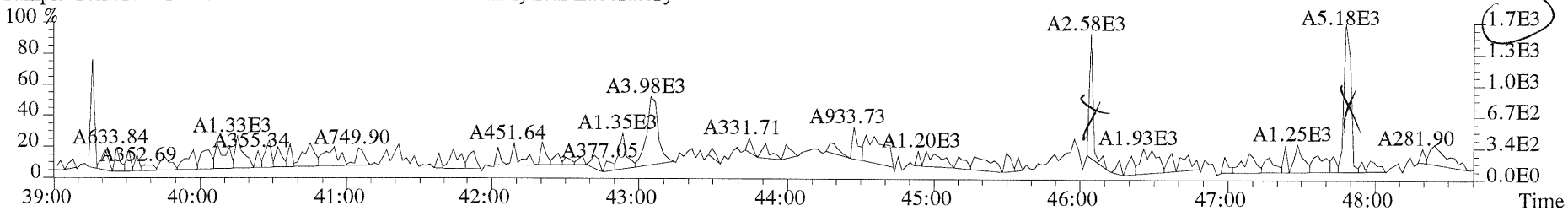
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



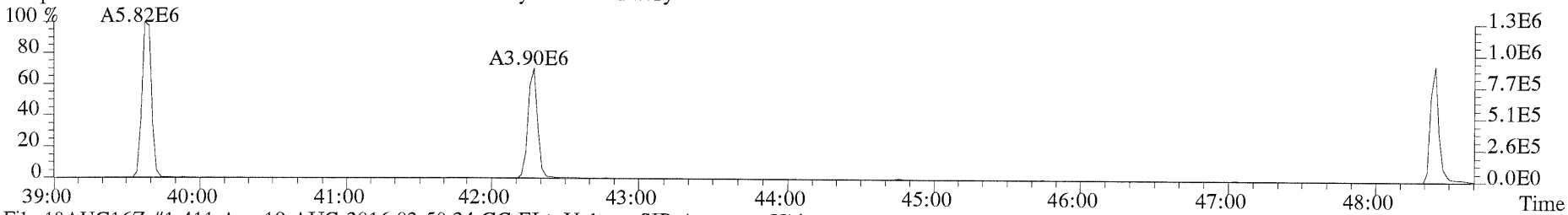
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



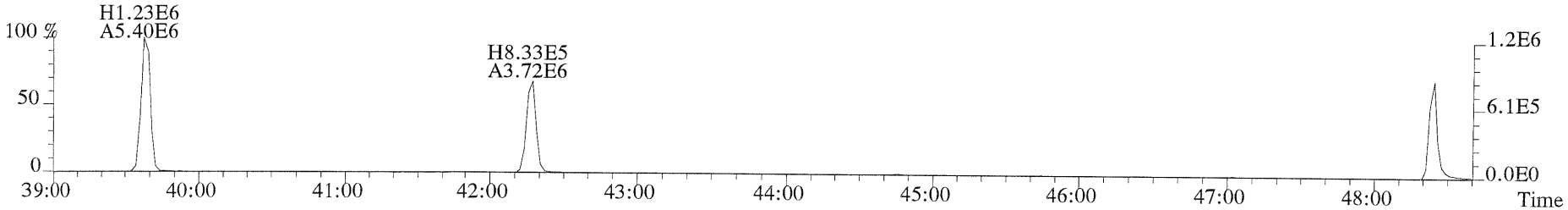
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



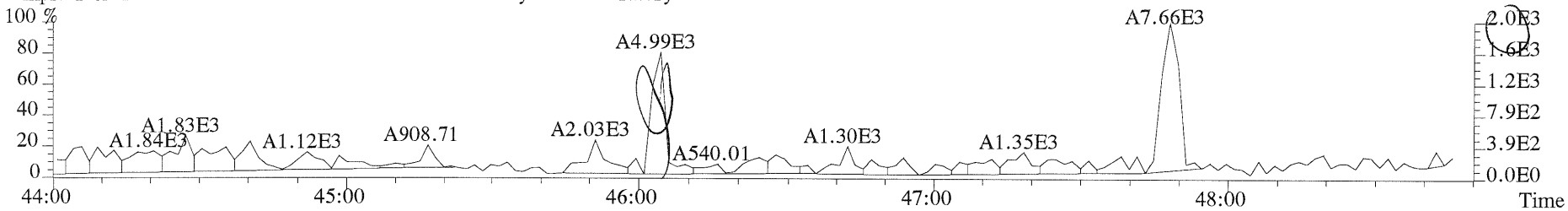
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



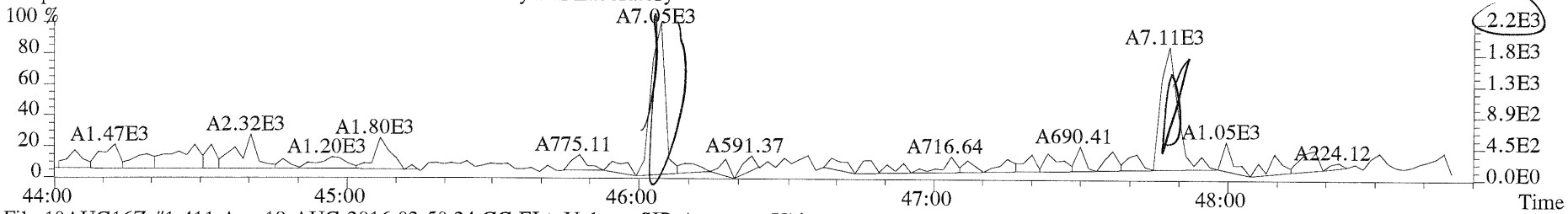
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



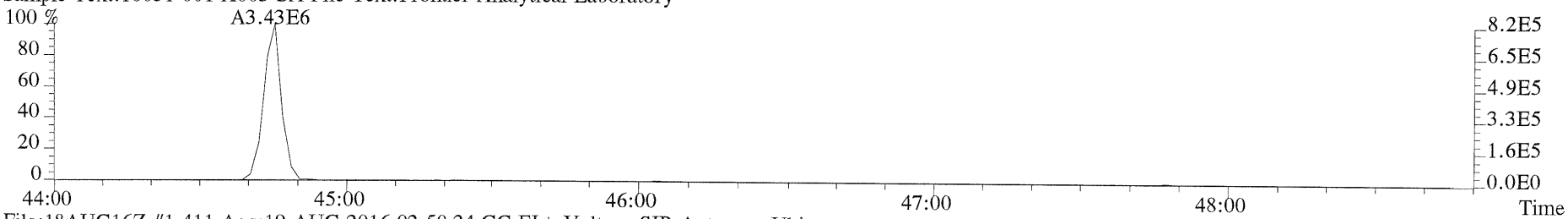
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



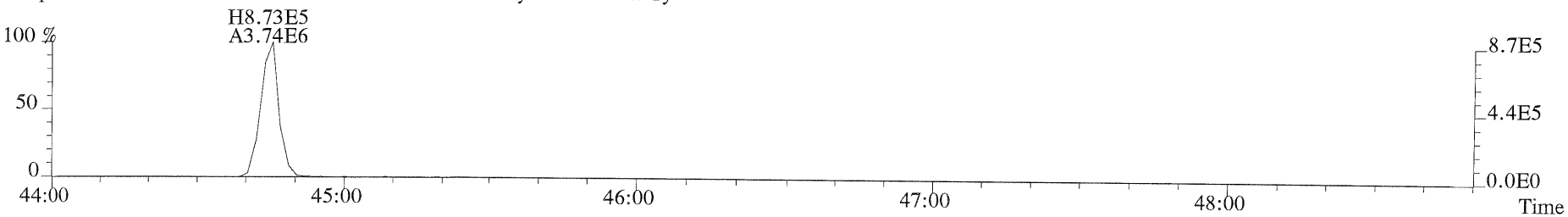
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



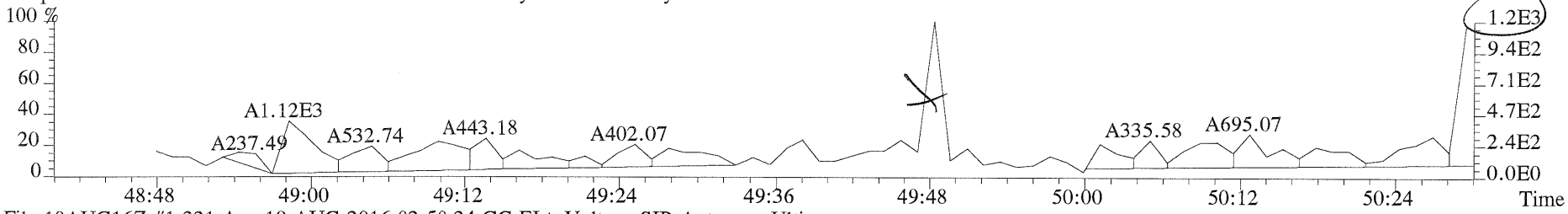
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



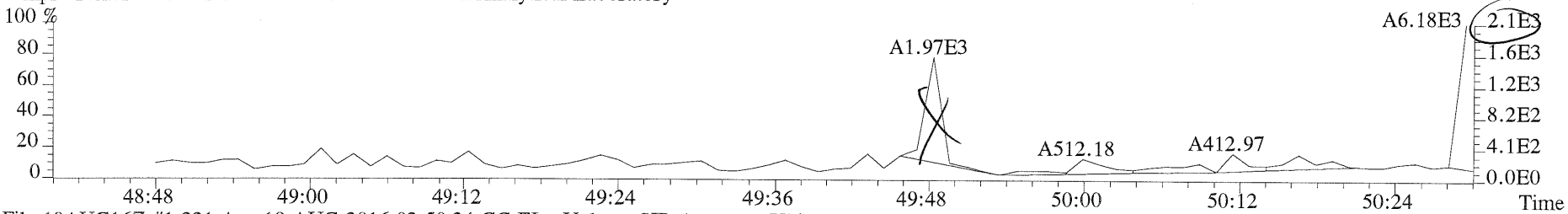
File:18AUG16Z #1-411 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



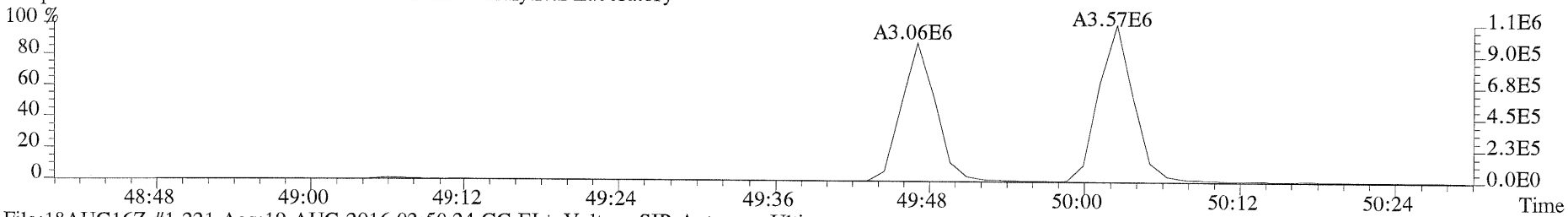
File:18AUG16Z #1-221 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



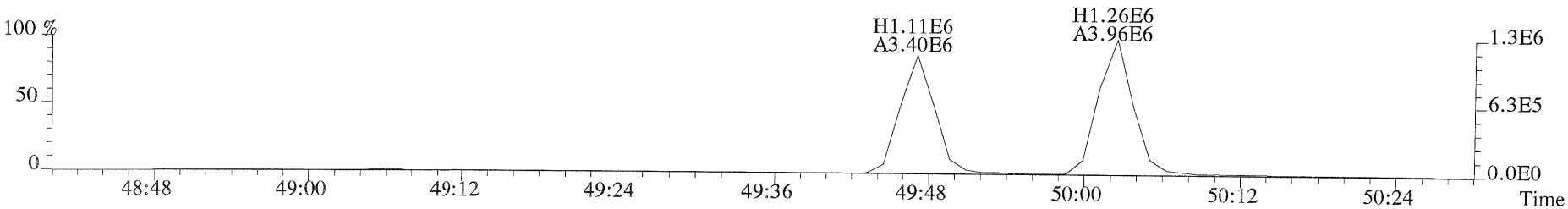
File:18AUG16Z #1-221 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



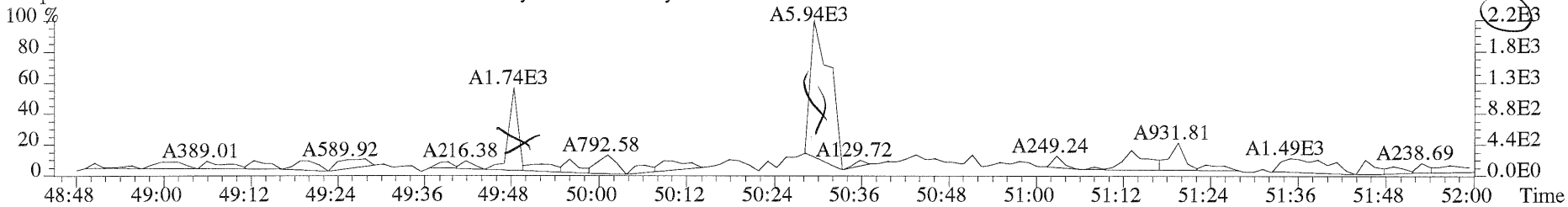
File:18AUG16Z #1-221 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



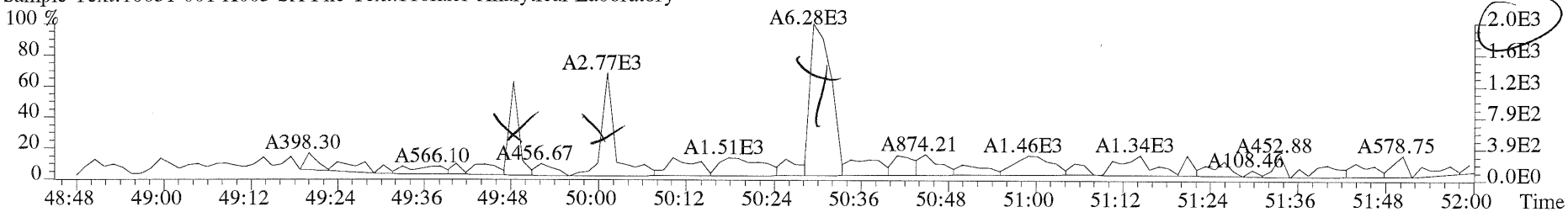
File:18AUG16Z #1-221 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



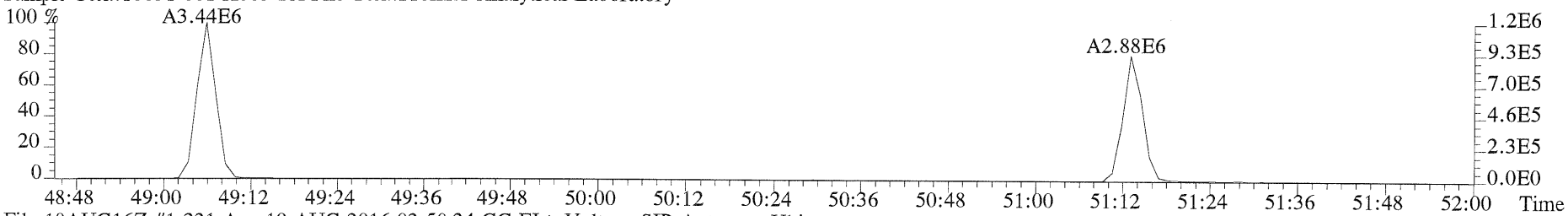
File:18AUG16Z #1-221 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



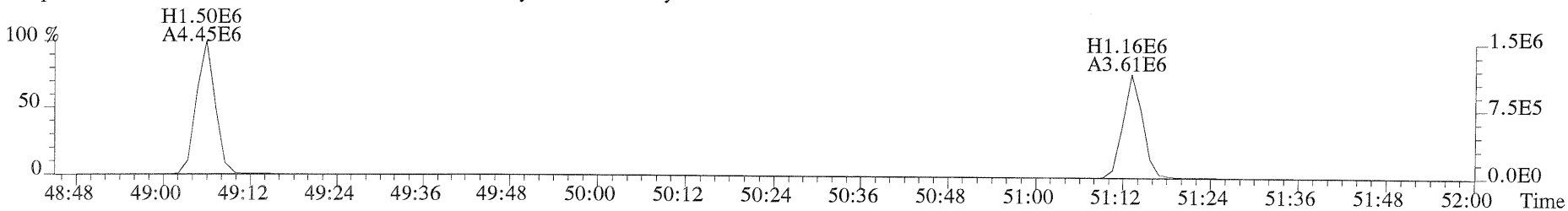
File:18AUG16Z #1-221 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



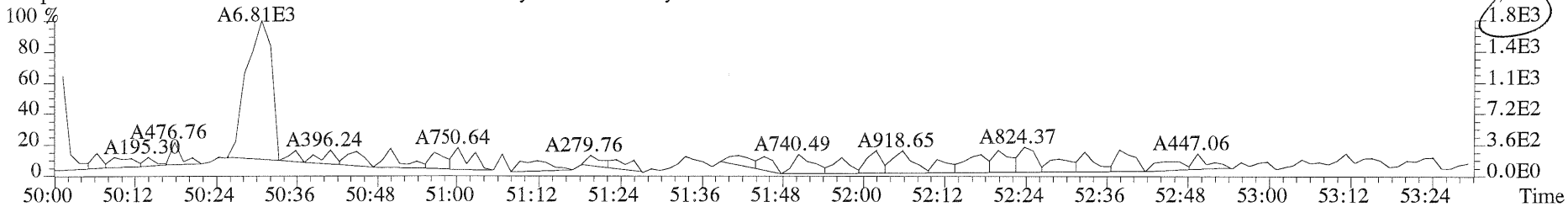
File:18AUG16Z #1-221 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-221 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
475.7619 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:10051-001-X003-SA File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-221 Acq:19-AUG-2016 02:50:24 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:10051-001-X003-SA File Text:Frontier Analytical Laboratory



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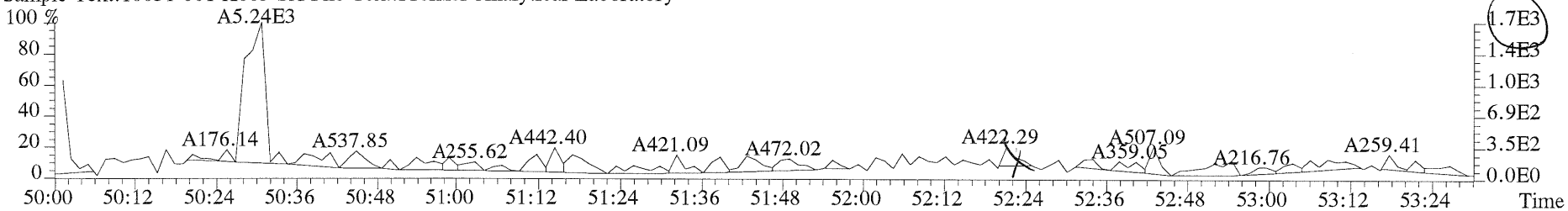
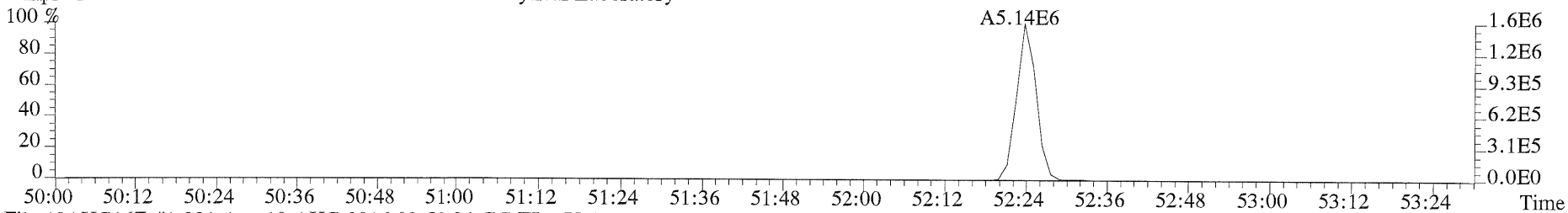
499.6797 S:11 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-221 Acq:19-AUG-2016 02:50:24 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:10051-001-X003-SA File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-221 Acq:19-AUG-2016 02:50:24 GC EI+ Voltage SIR Autospec-Ultima
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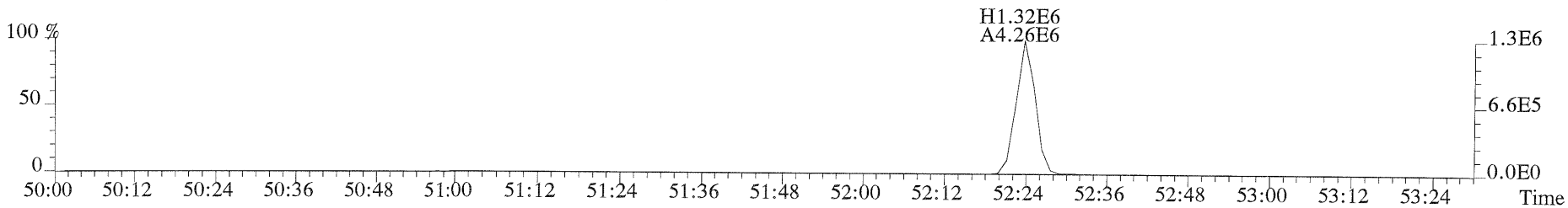
Sample Text:10051-001-X003-SA File Text:Frontier Analytical Laboratory



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: ST081116Z2 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: 8/10/16

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: [signature] Date: 8/12/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:11AUG16Z Instrument: FAL4 GC: DB1MS Experiment:1668PCB

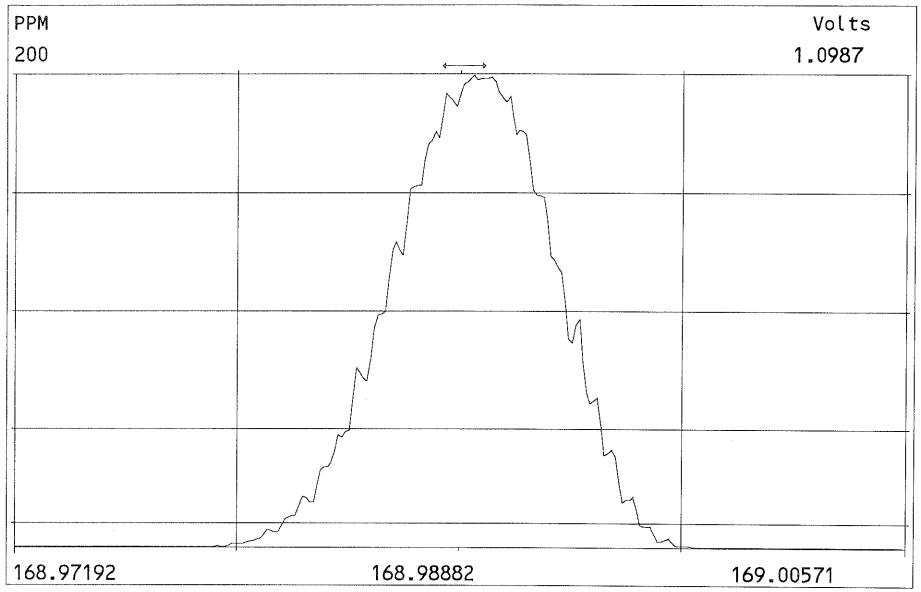
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
11AUG16Z	1	ST081116Z3	1668 CS3 R150603A CS0301	11-AUG-16 11:26:03	NA	NA	BS
11AUG16Z	2	ST081116Z0	1668 CS0 R151116A CS0001	11-AUG-16 12:25:59	NA	NA	BS
11AUG16Z	3	ST081116Z1	1668 CS1 R121023B CS0101	11-AUG-16 13:25:54	NA	NA	BS
11AUG16Z	4	ST081116Z2	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

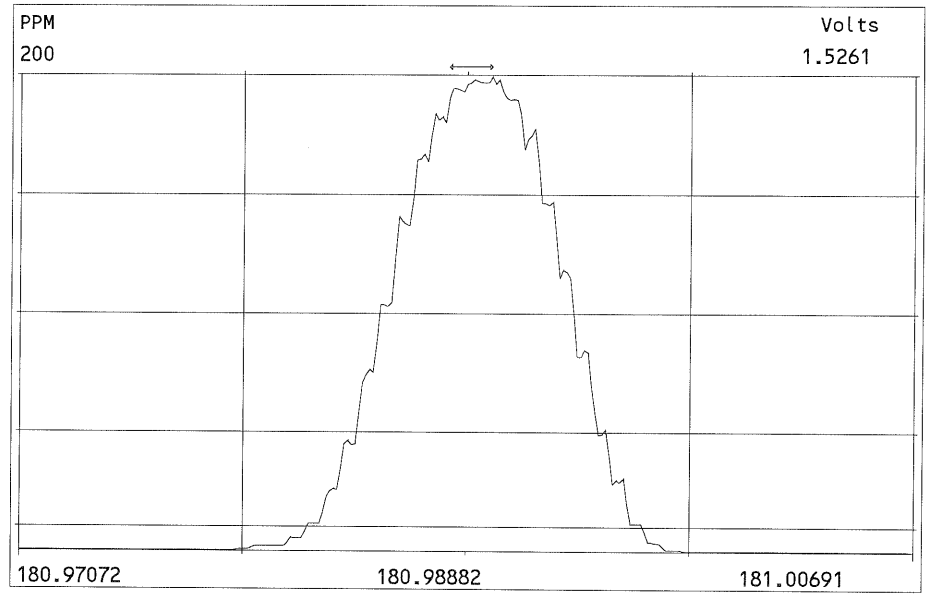
8/12/16

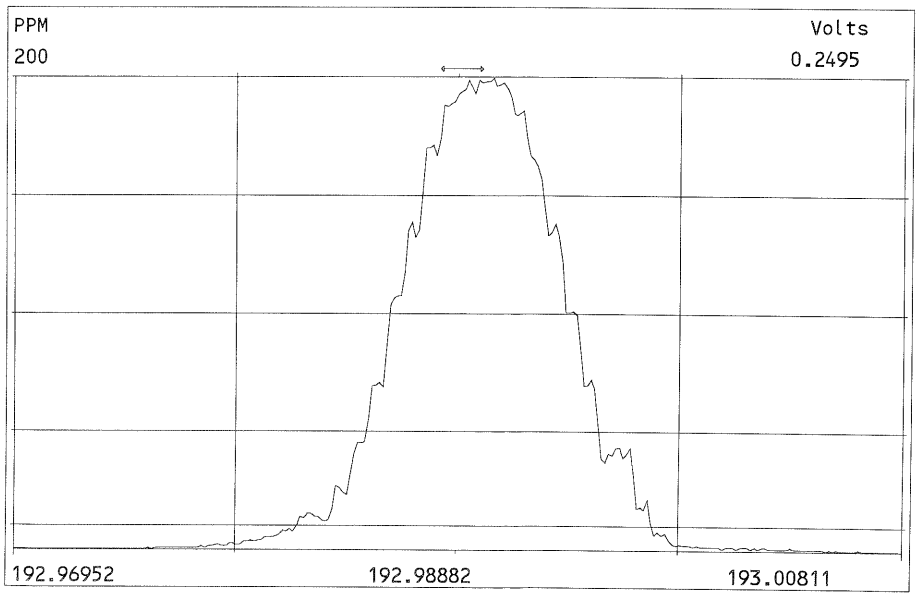
Data Backed Up:_____

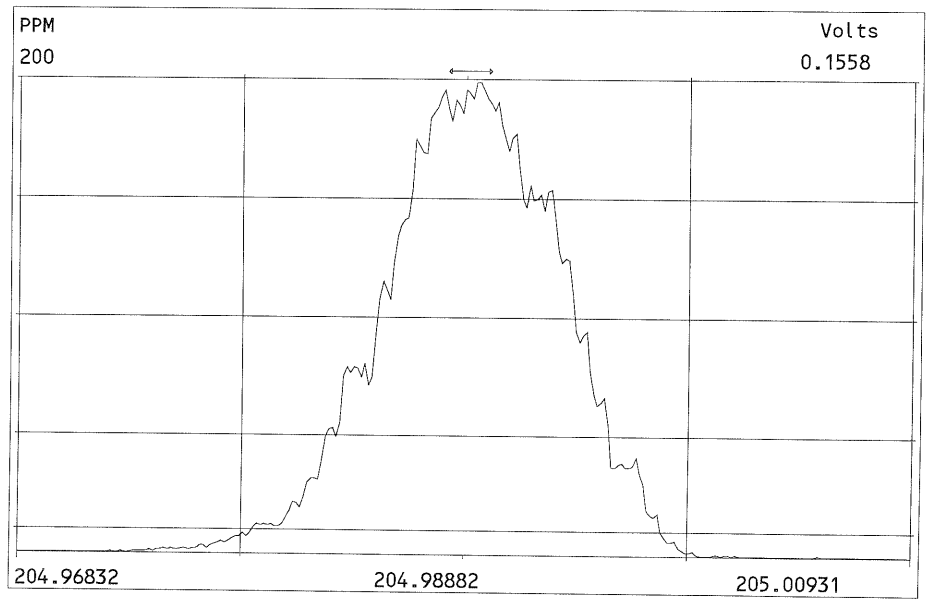
Date:_____

Peak Locate Examination:11-AUG-2016:11:21 File:11AUG16Z PFK-01
Experiment:1668PCB Function:1 Reference:PFK



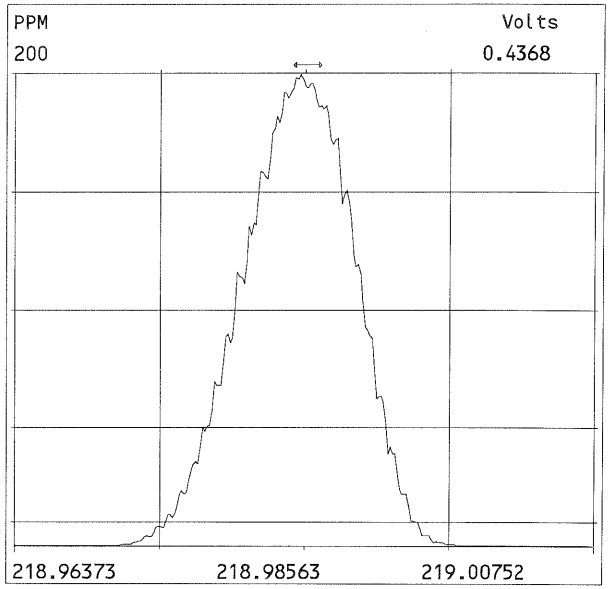


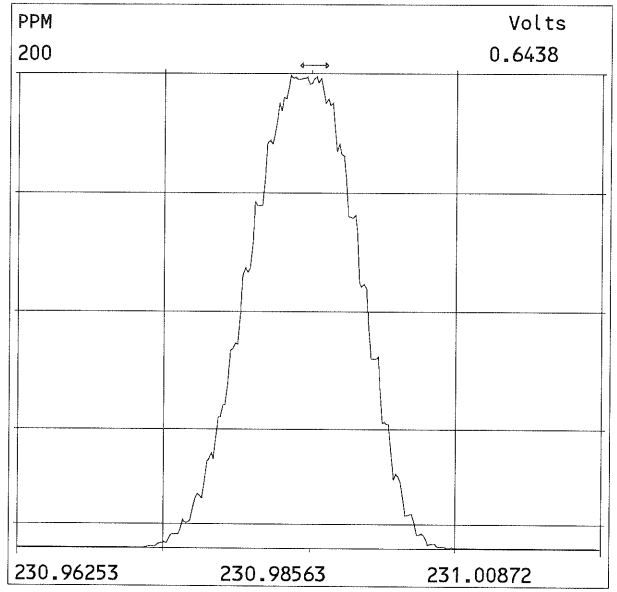


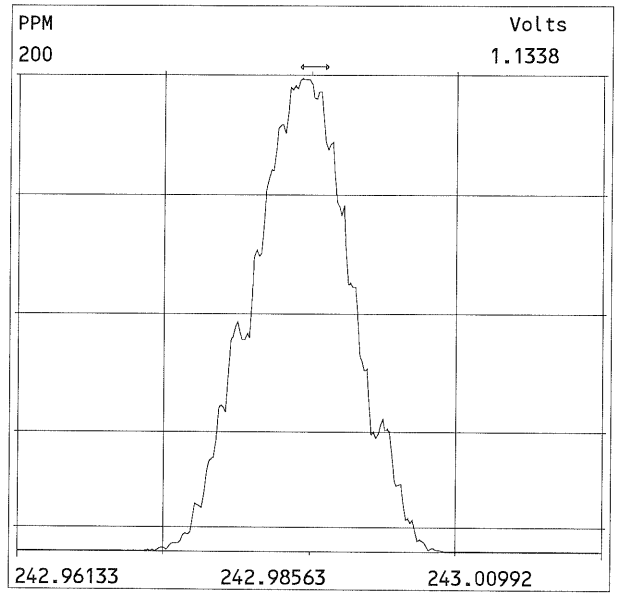


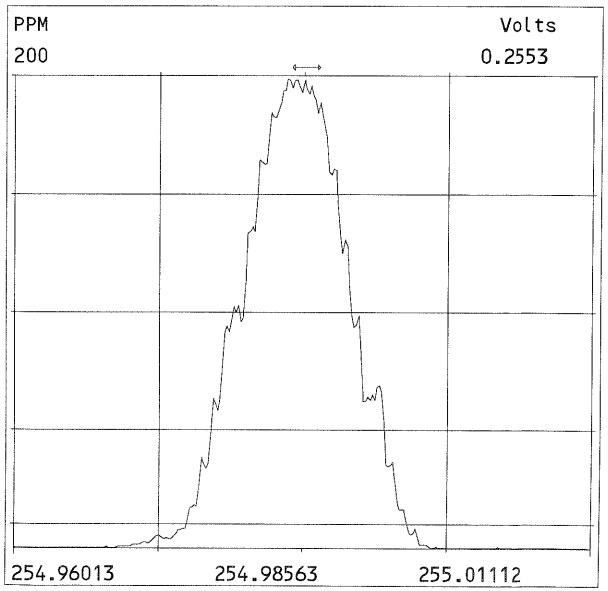
Peak Locate Examination:11-AUG-2016:11:22 File:11AUG16Z PFK01

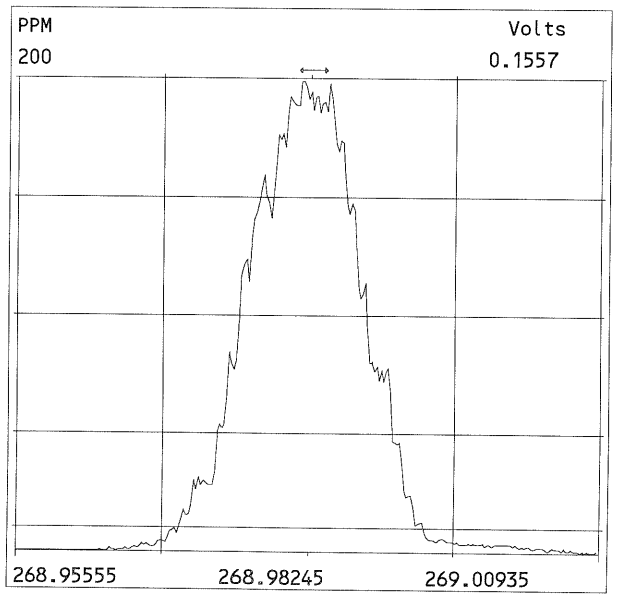
Experiment:1668PCB Function:2 Reference:PFK

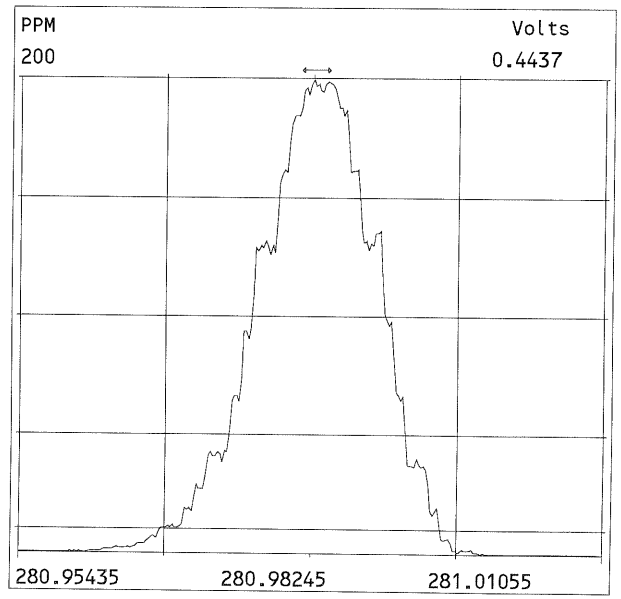






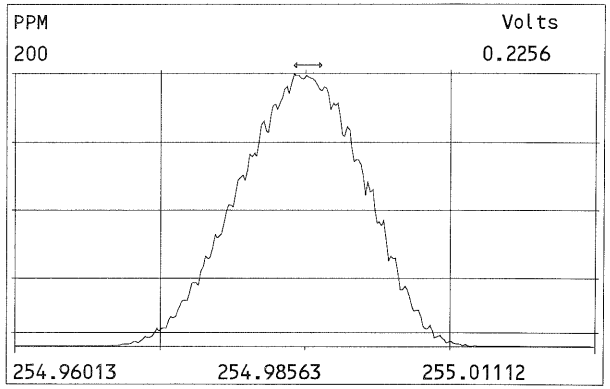


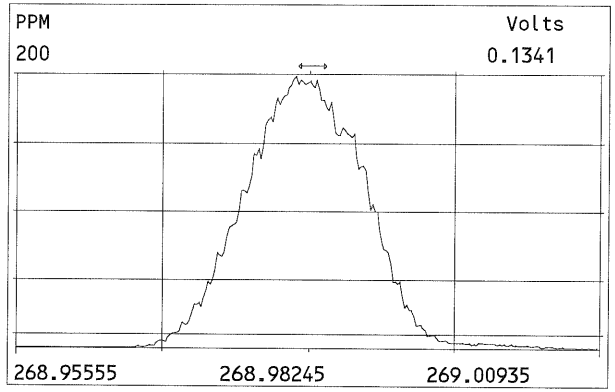


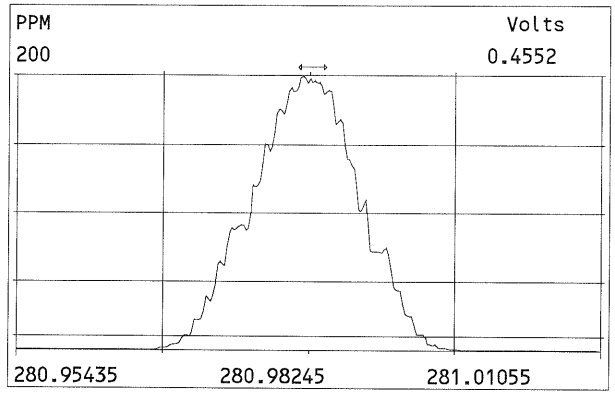


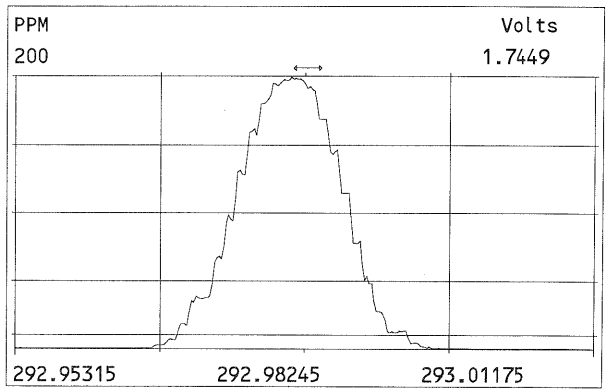
Peak Locate Examination:11-AUG-2016:11:22 File:11AUG16Z PFK01

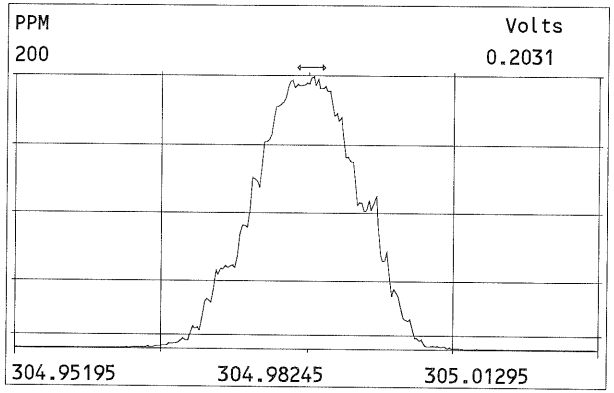
Experiment:1668PCB Function:3 Reference:PFK

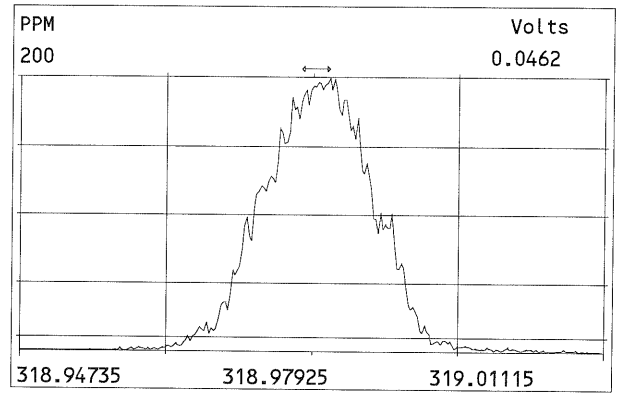


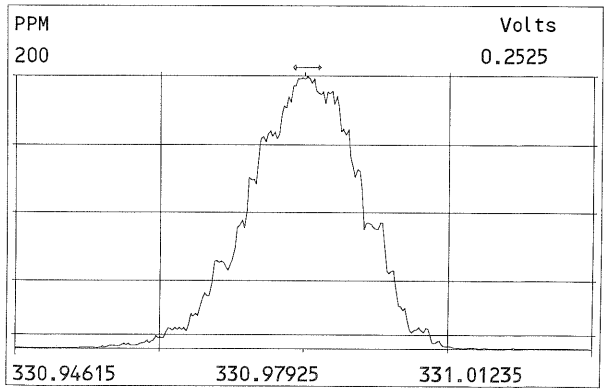


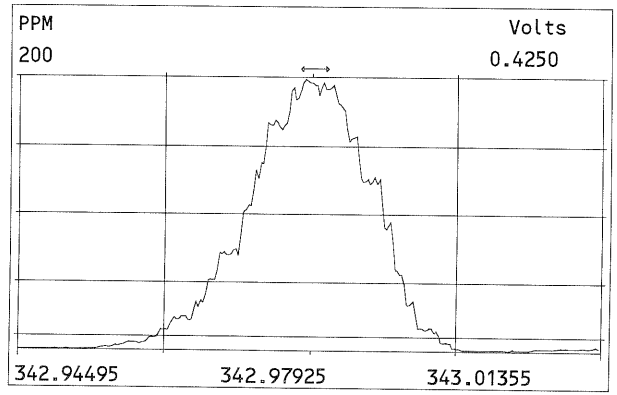






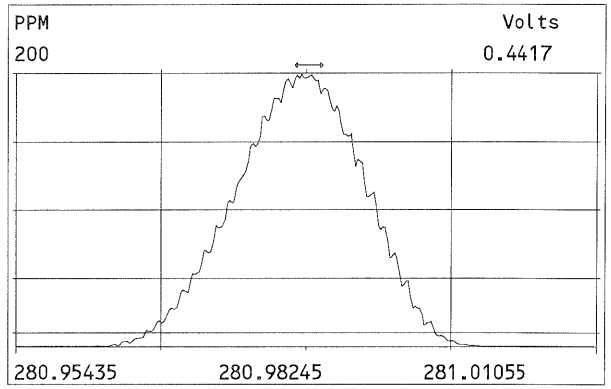


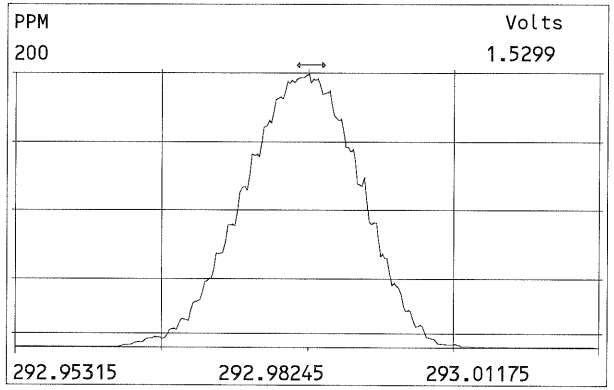


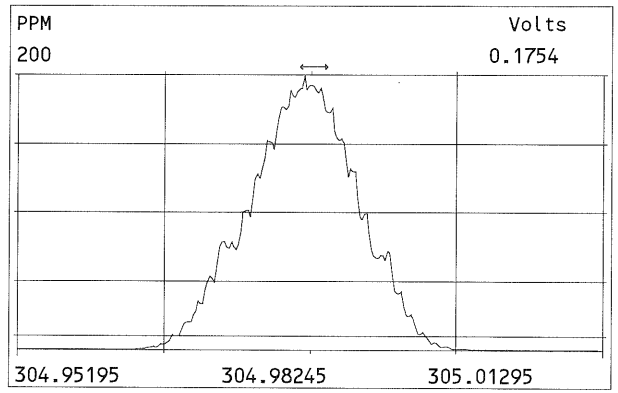


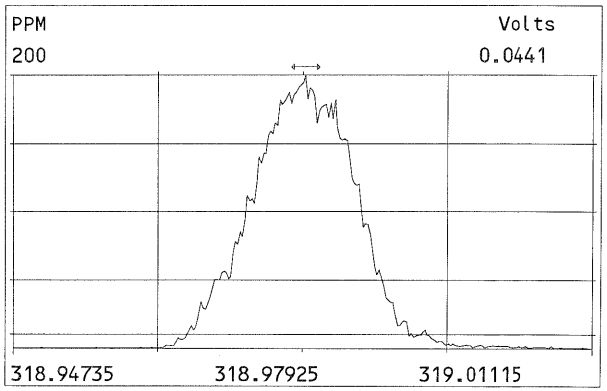
Peak Locate Examination:11-AUG-2016:11:23 File:11AUG16Z PFK01

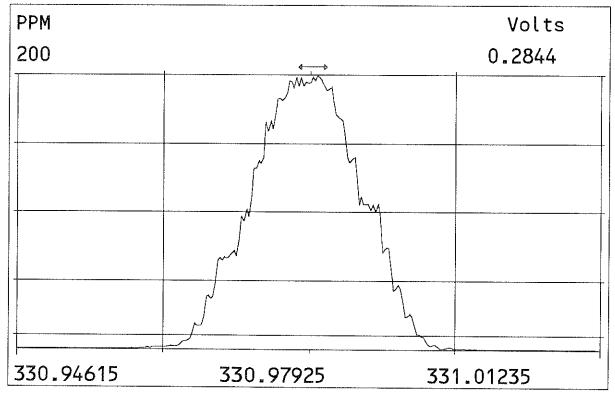
Experiment:1668PCB Function:4 Reference:PFK

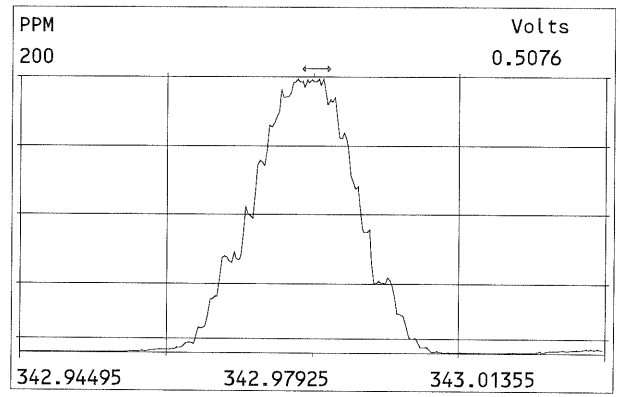


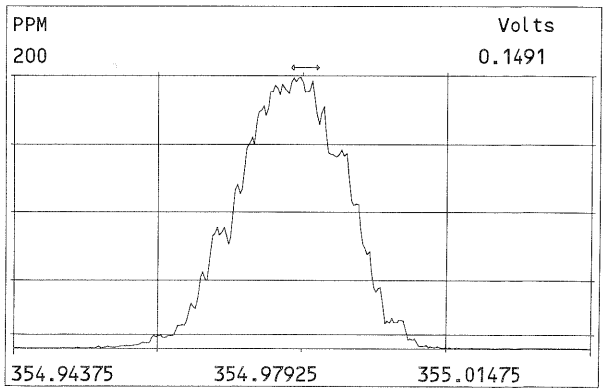


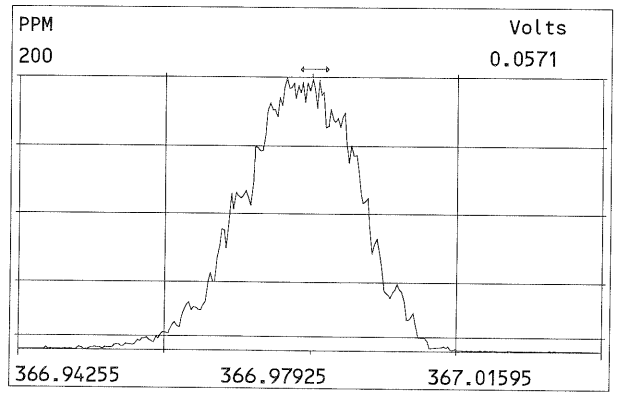


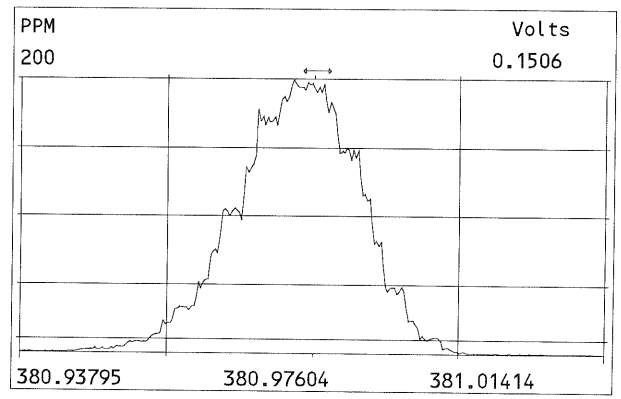




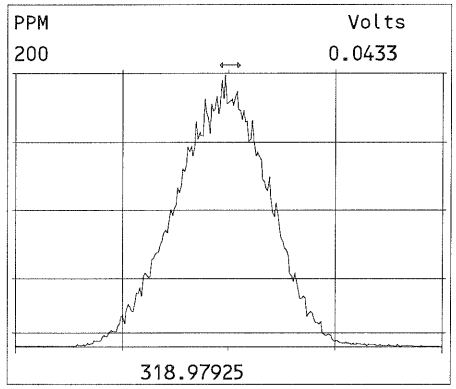


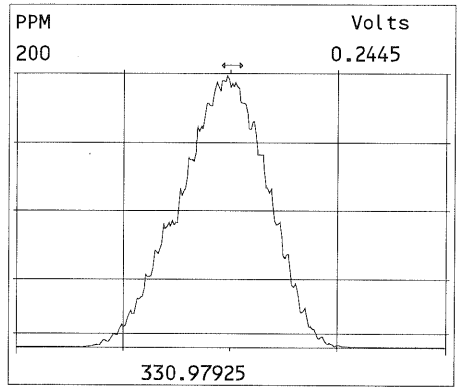


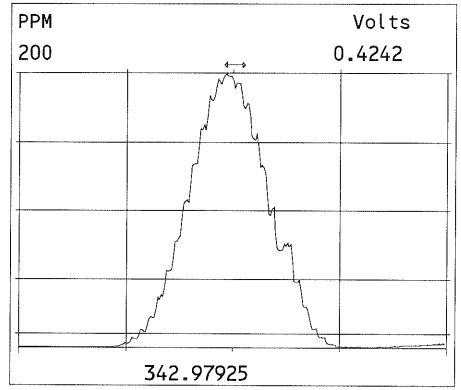


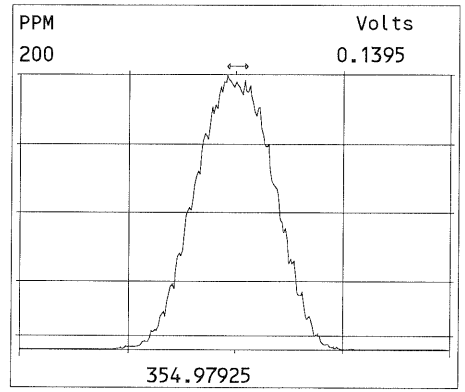


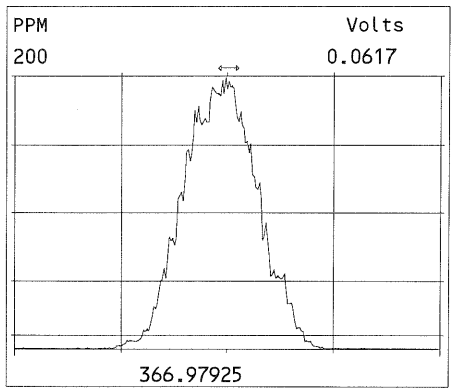
Peak Locate Examination:11-AUG-2016:11:24 File:11AUG16Z PFK01
Experiment:1668PCB Function:5 Reference:PFK

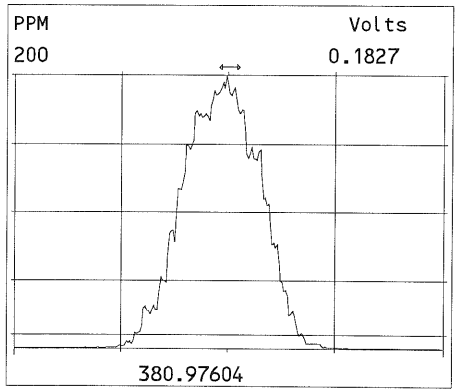


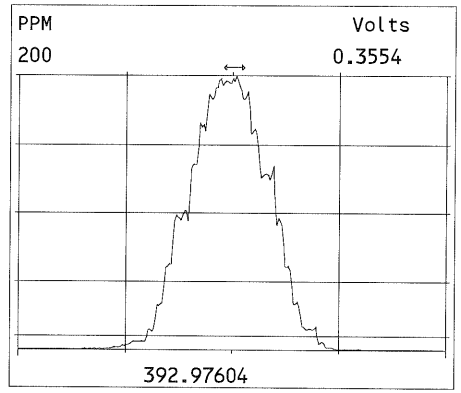


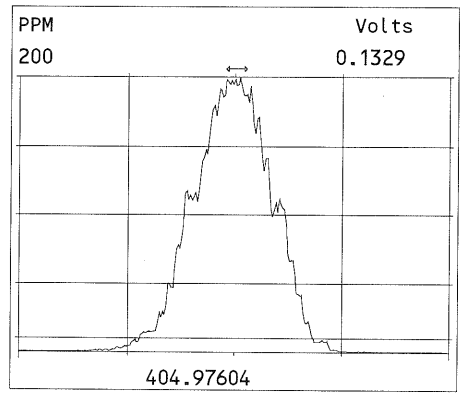


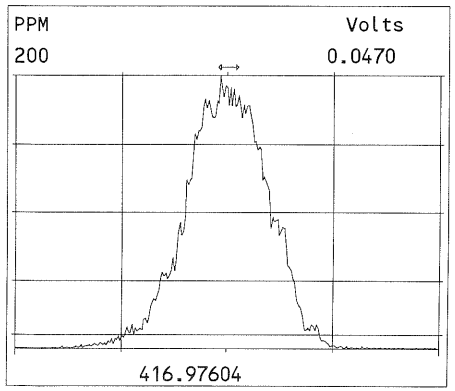


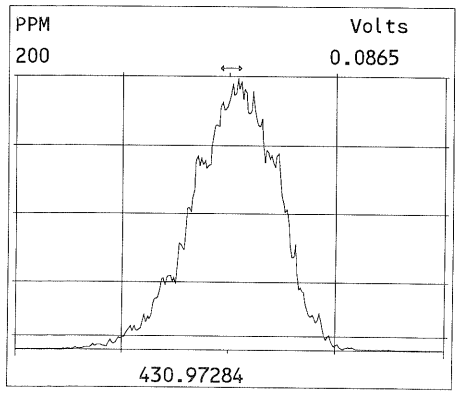


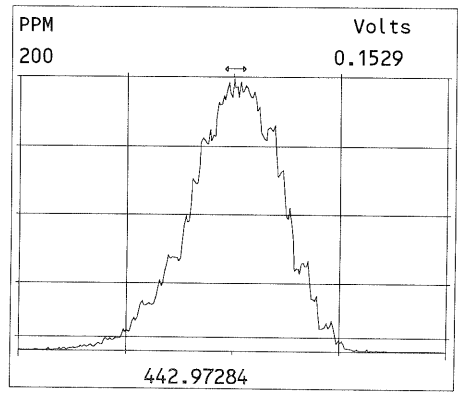






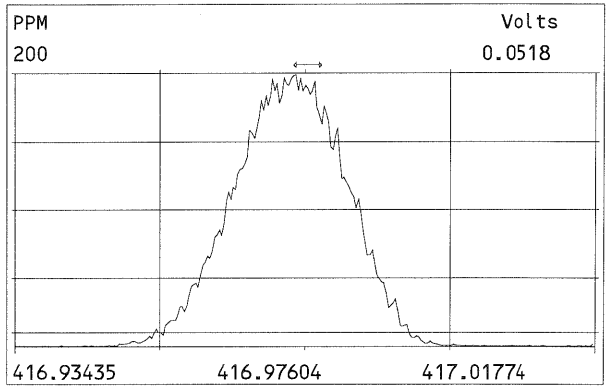


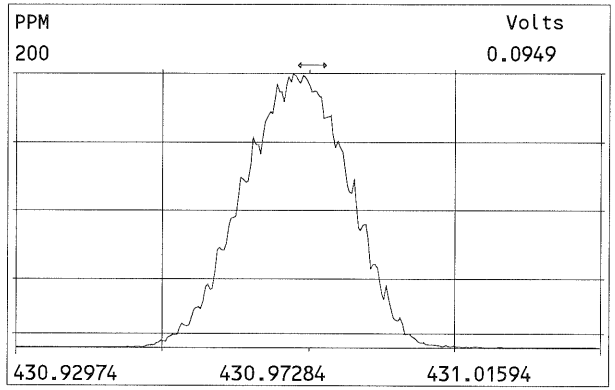


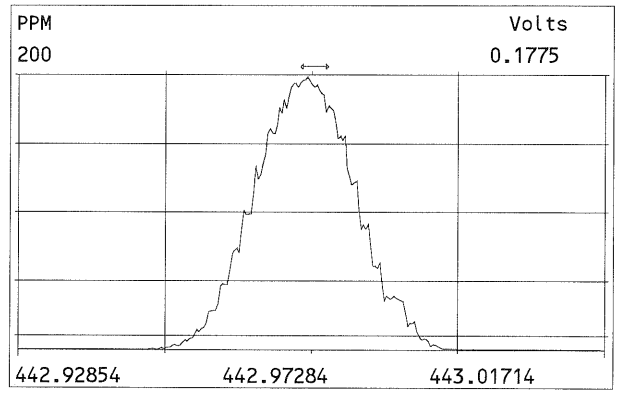


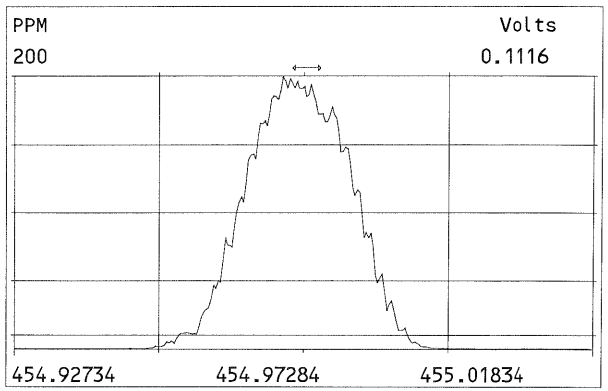
Peak Locate Examination:11-AUG-2016:11:25 File:11AUG16Z PFK01

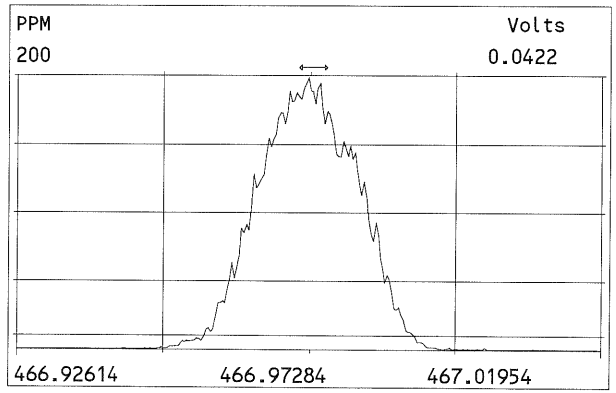
Experiment:1668PCB Function:6 Reference:PFK

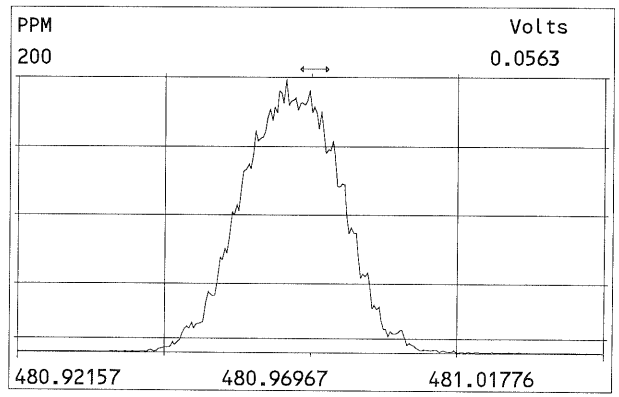


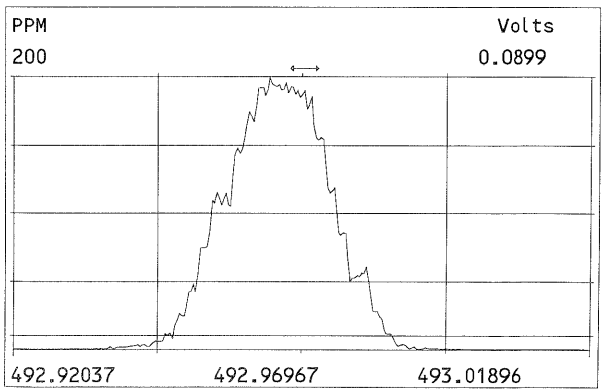


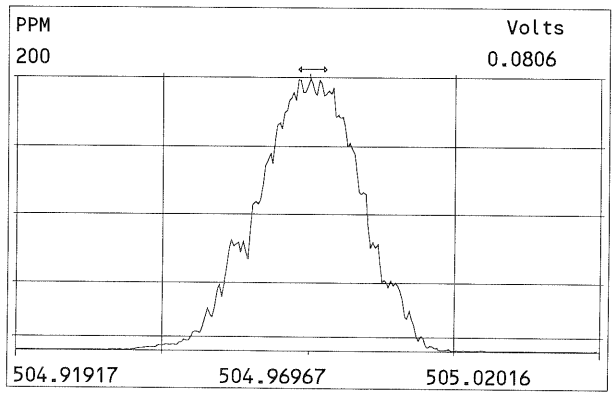


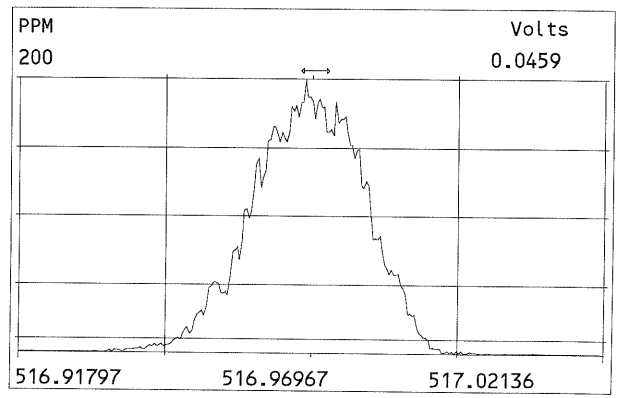




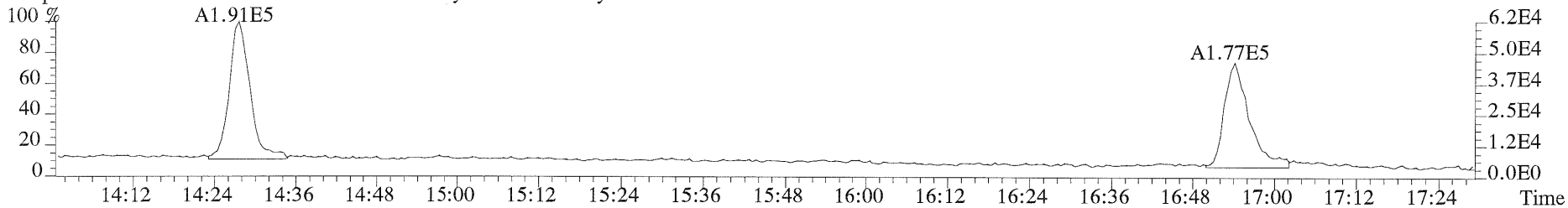








File:11AUG16Z #1-900 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-900 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
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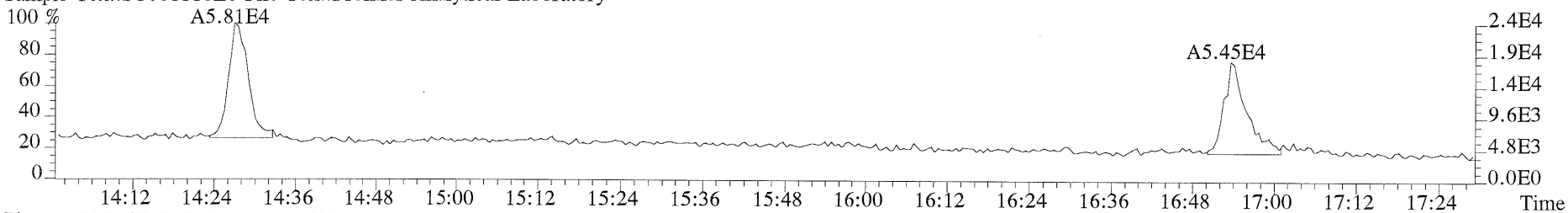
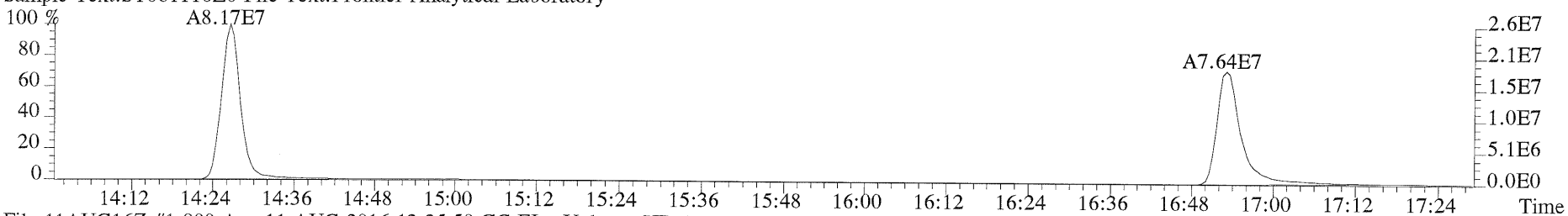
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



File:11AUG16Z #1-900 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
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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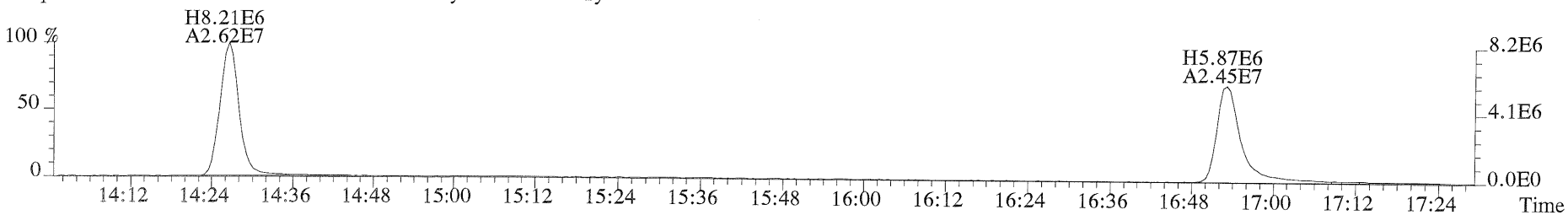
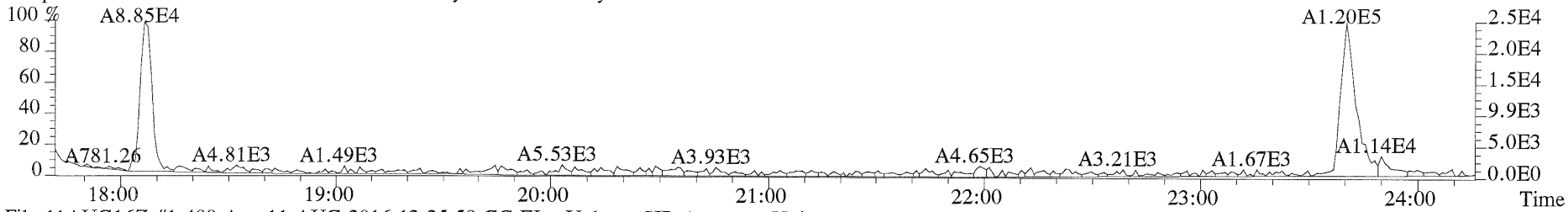
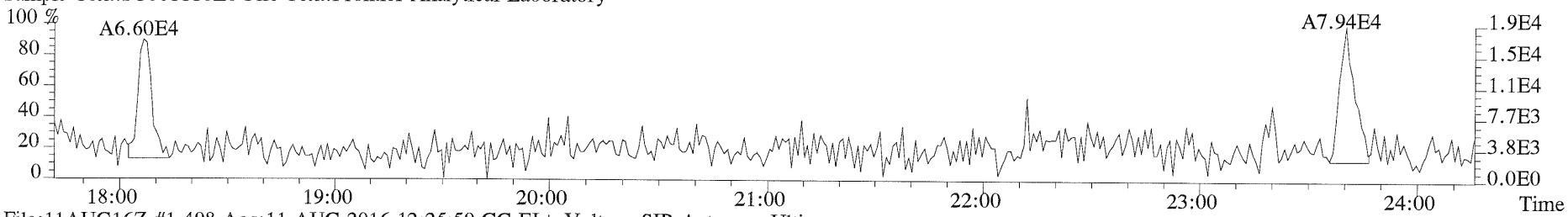
202.0766 S:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



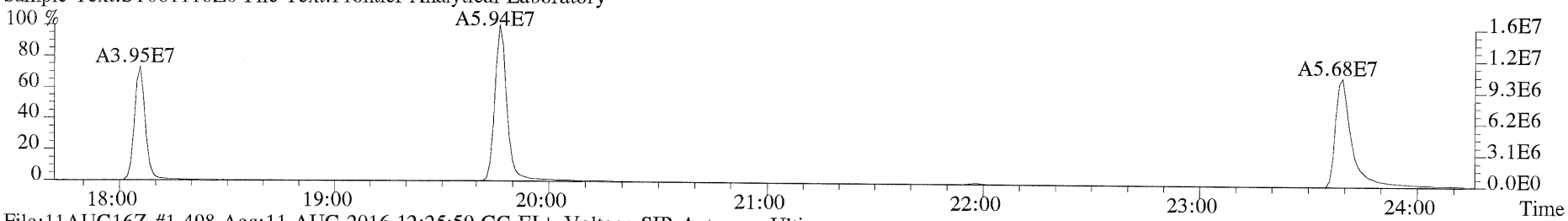
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



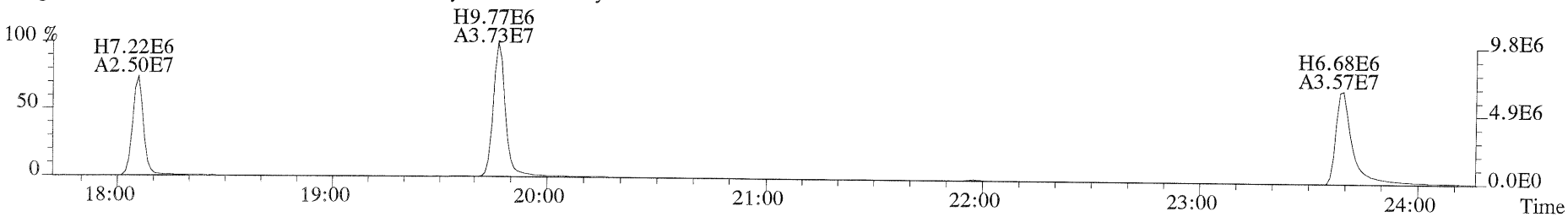
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



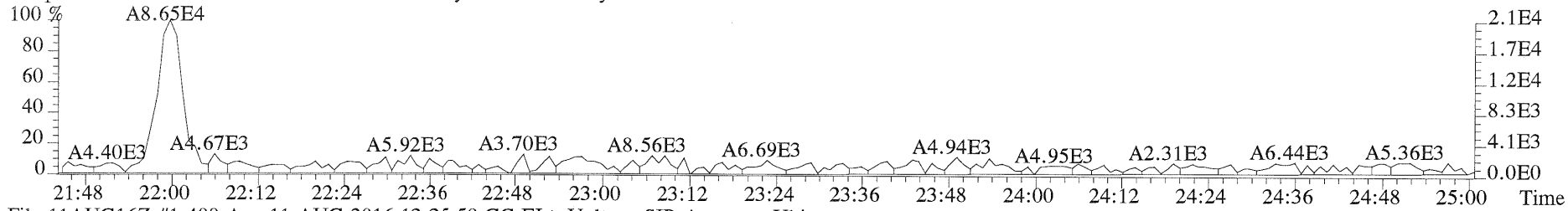
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



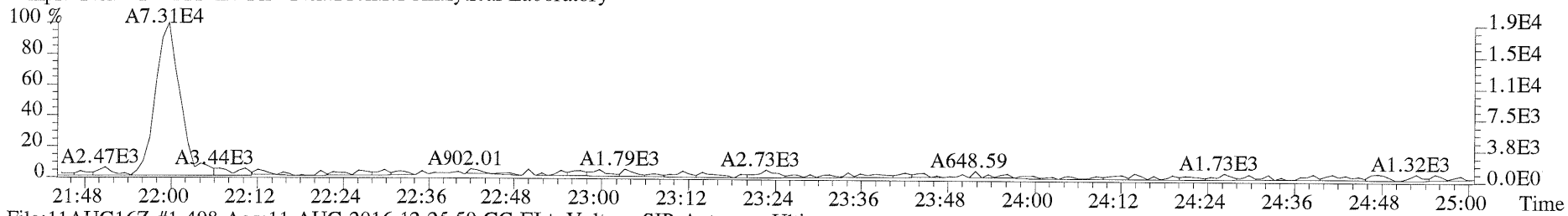
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



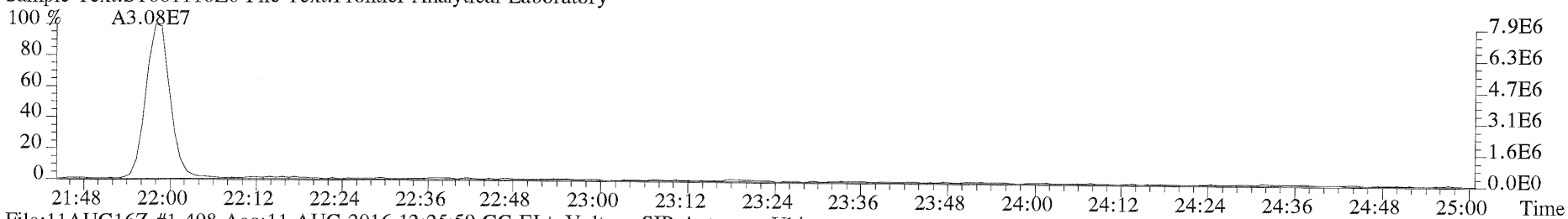
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



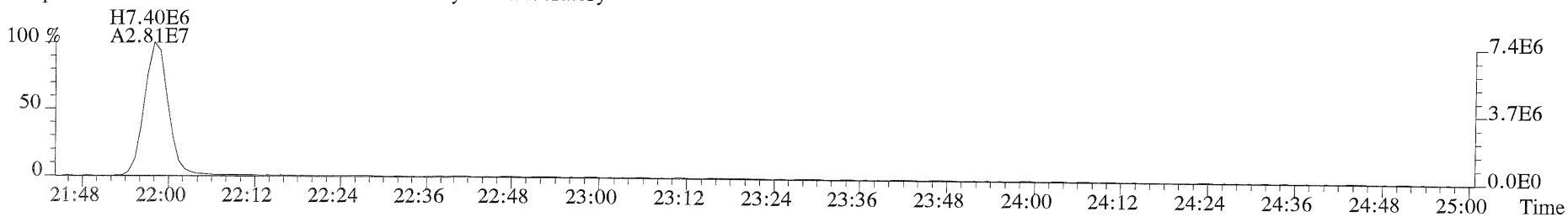
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



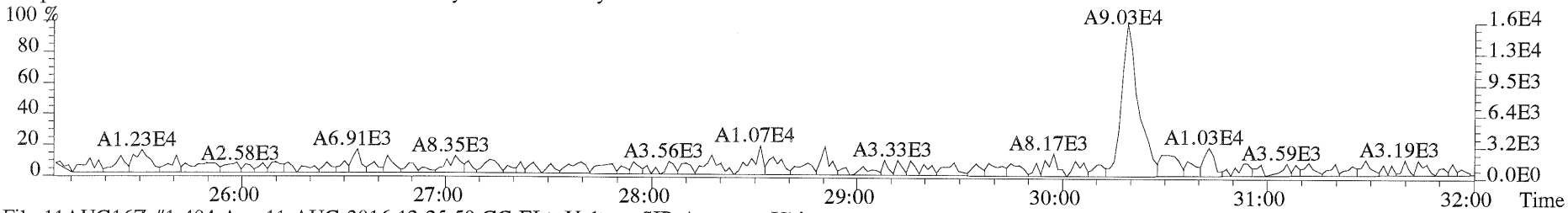
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



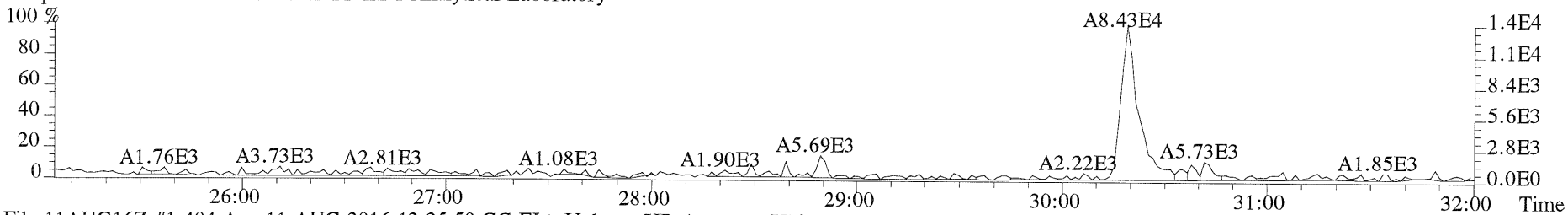
File:11AUG16Z #1-498 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



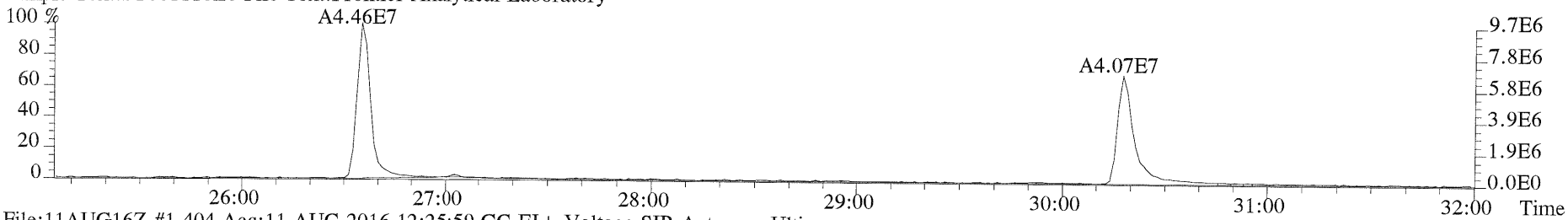
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



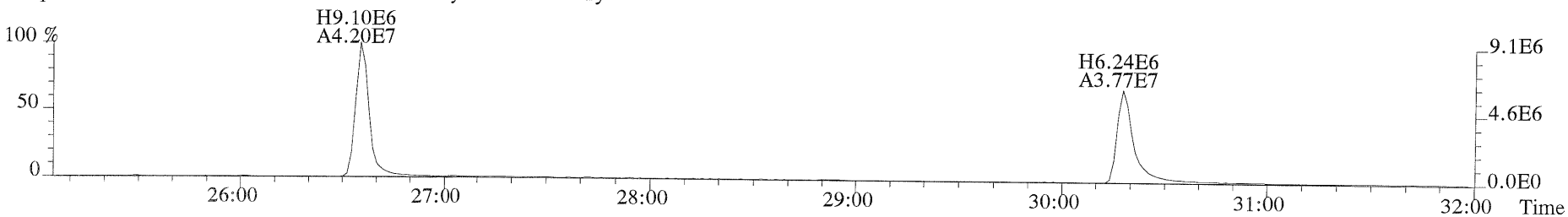
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



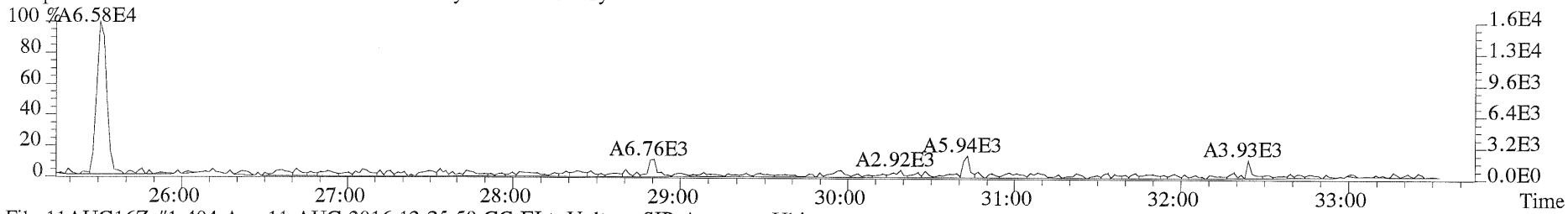
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



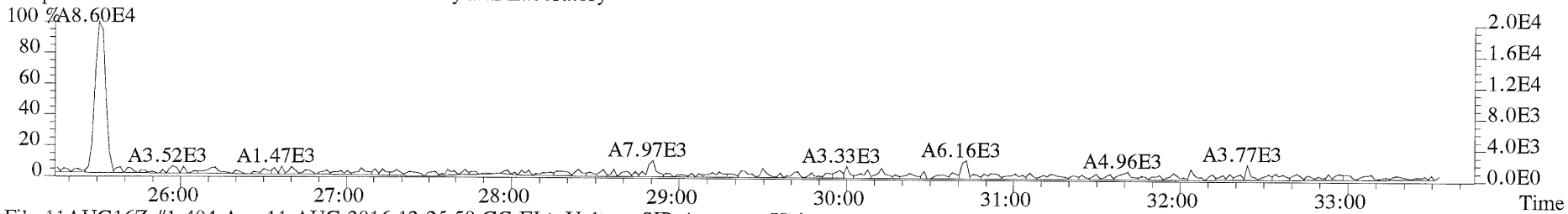
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



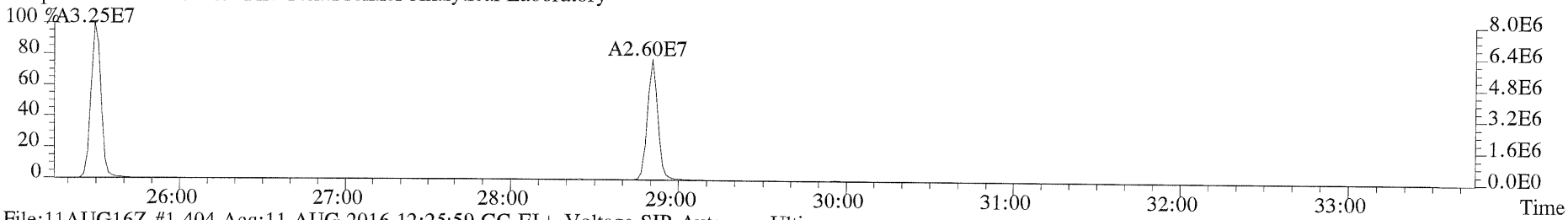
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



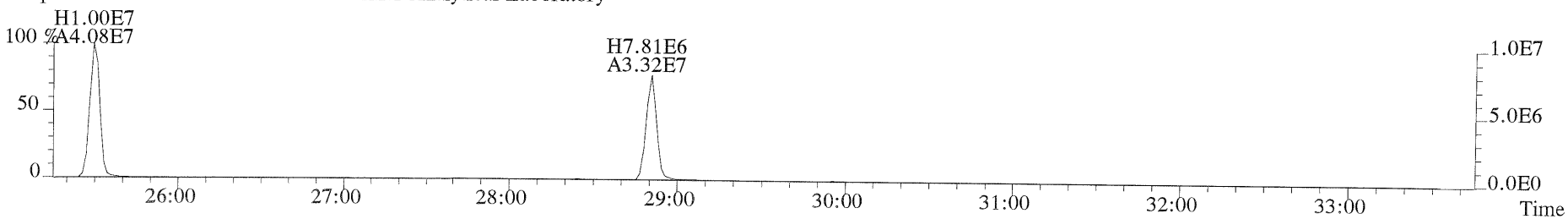
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



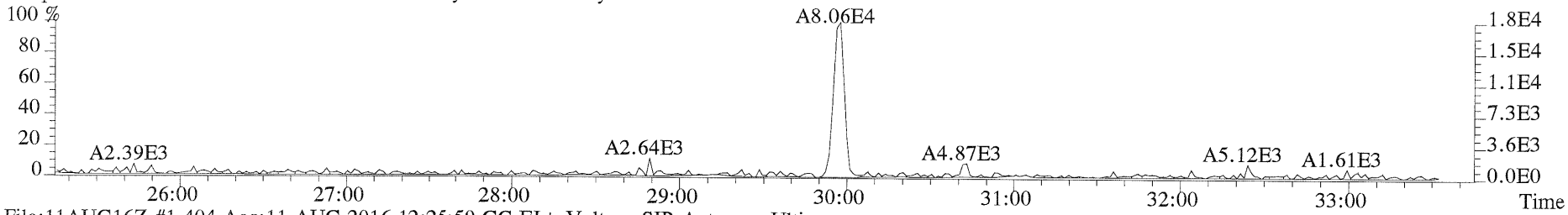
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



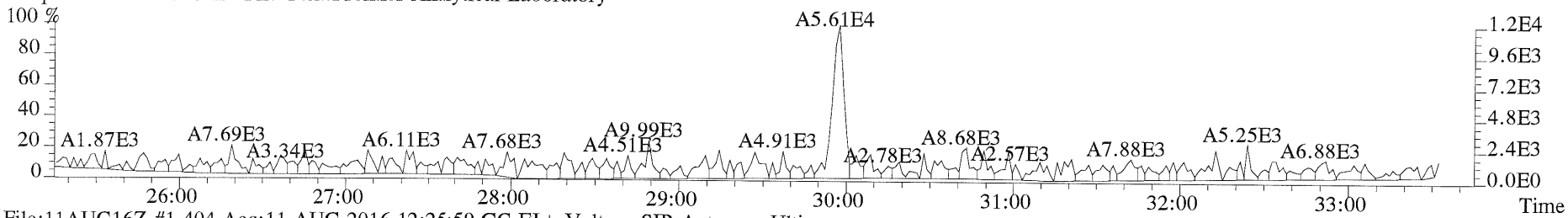
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



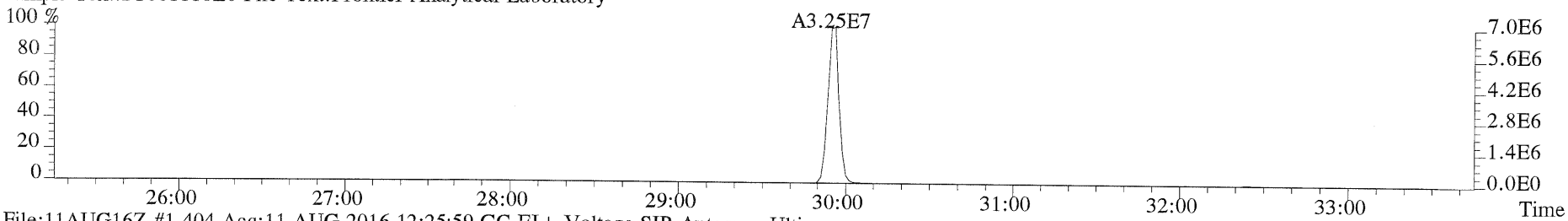
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



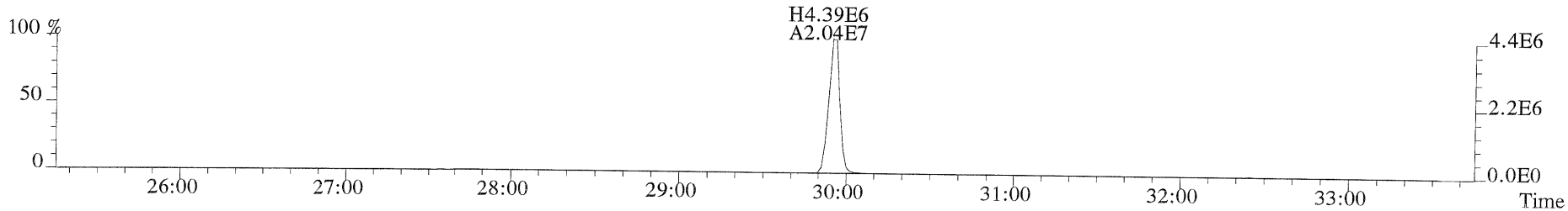
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



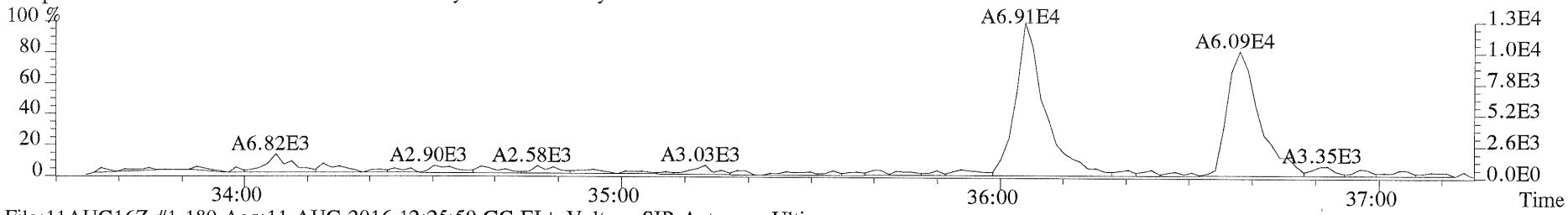
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



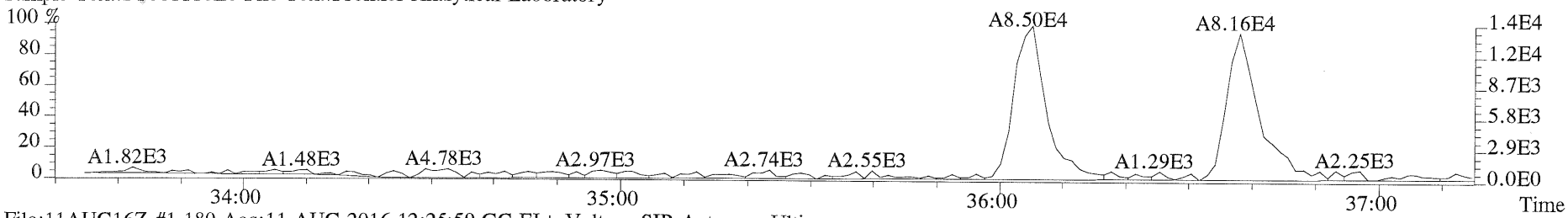
File:11AUG16Z #1-404 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



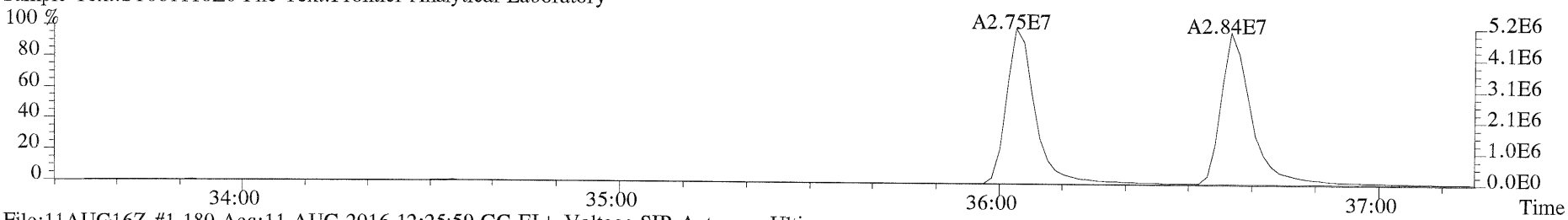
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



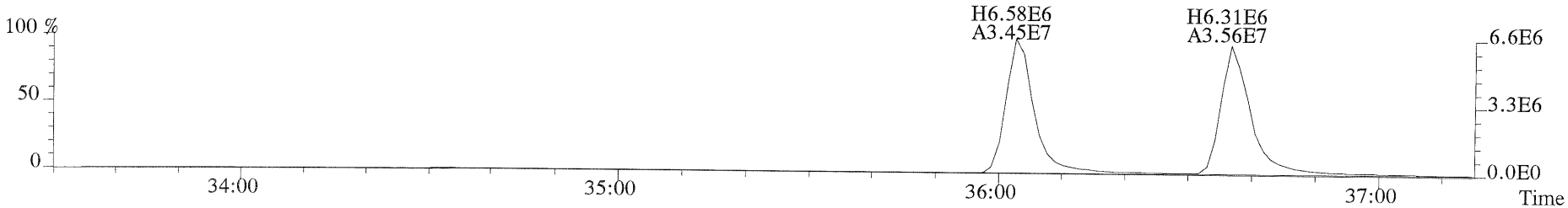
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



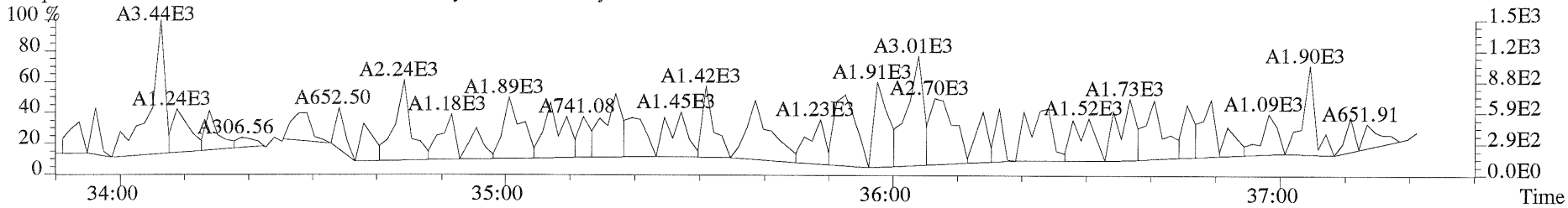
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



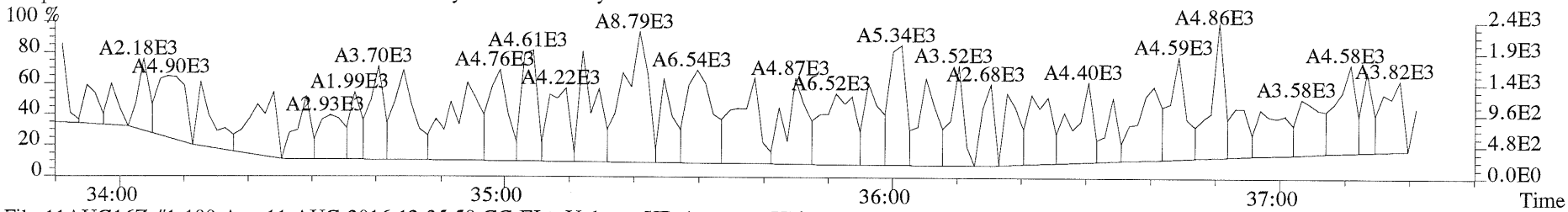
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



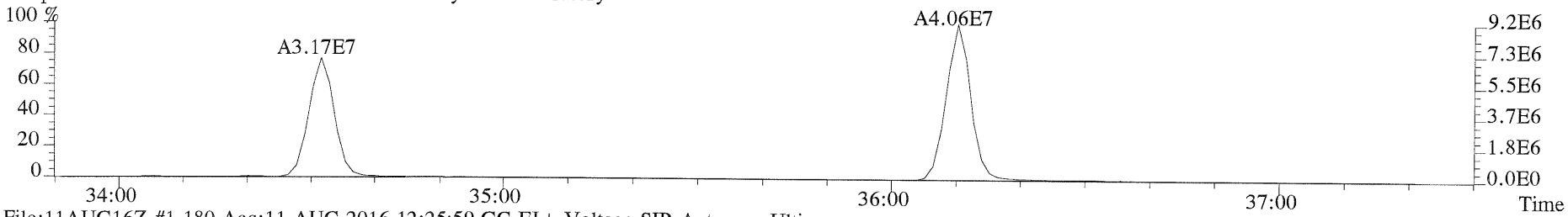
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



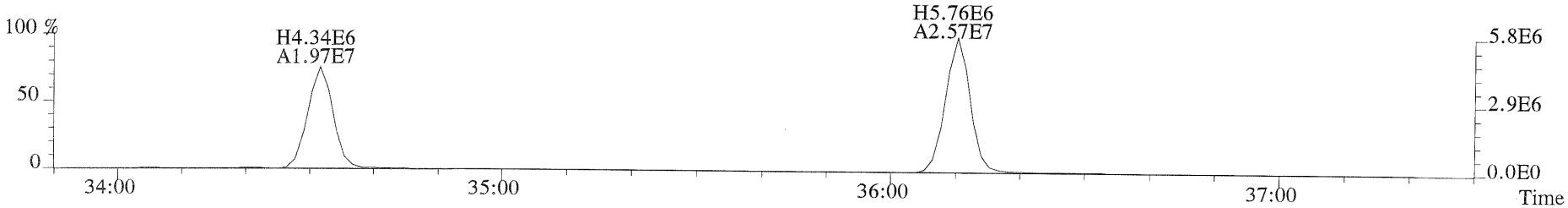
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



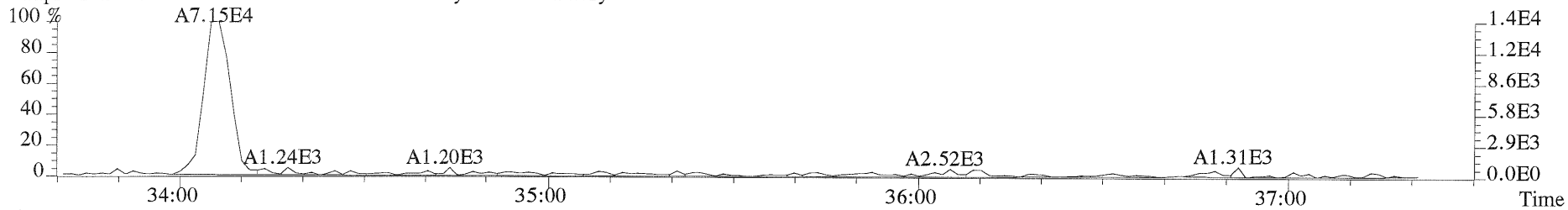
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



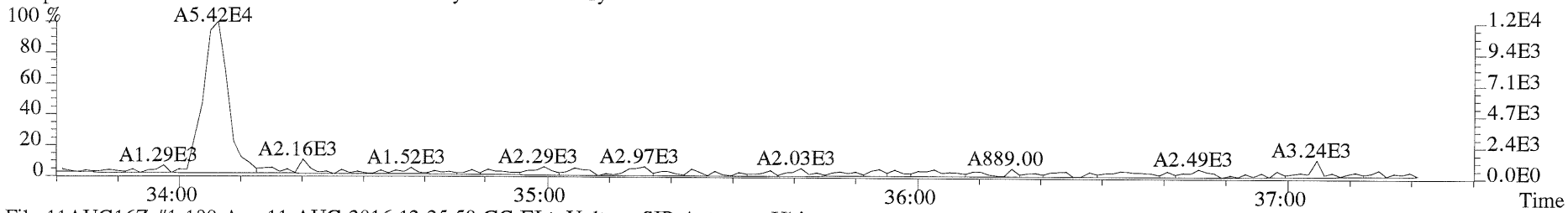
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



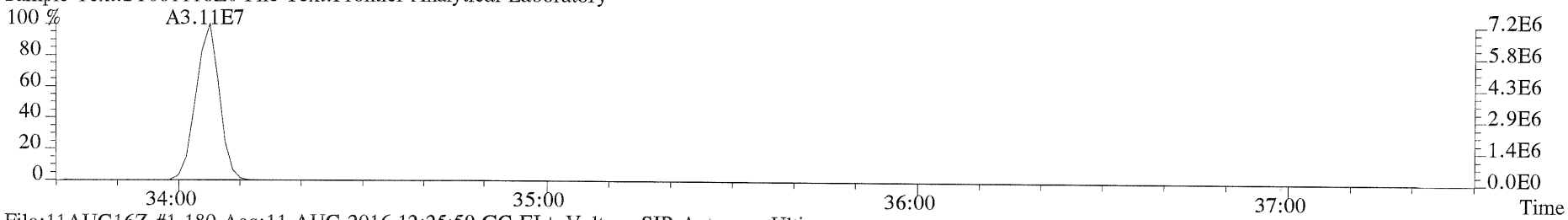
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



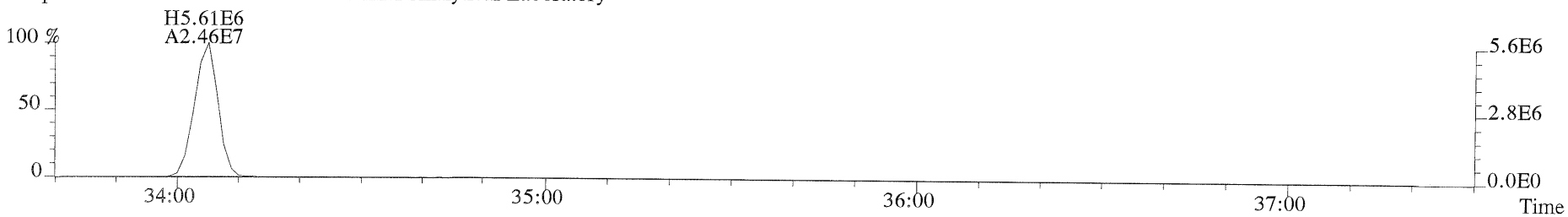
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



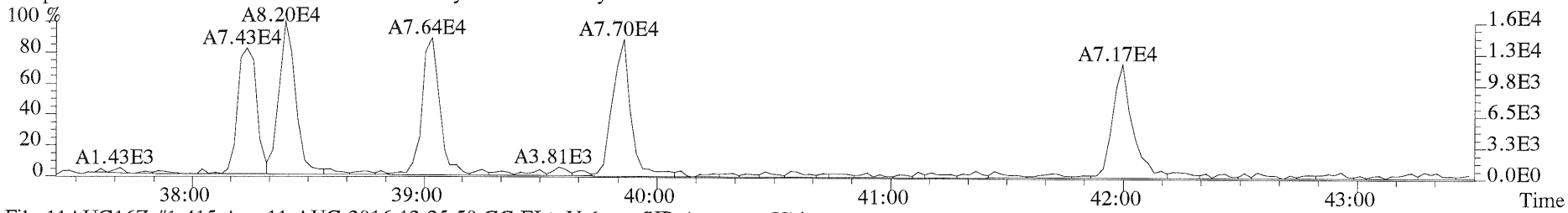
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



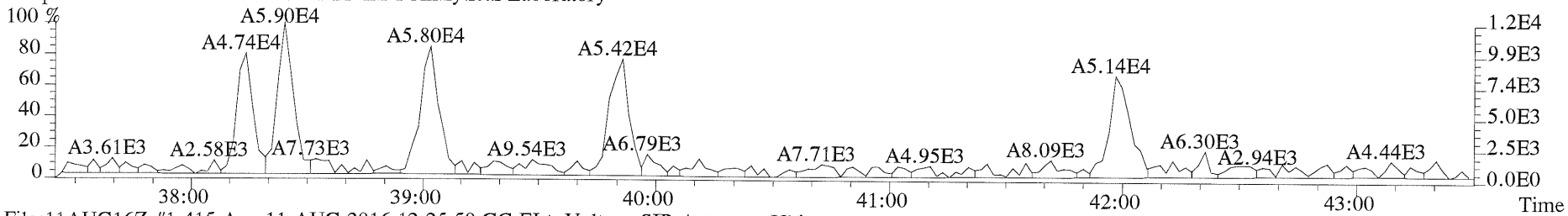
File:11AUG16Z #1-180 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



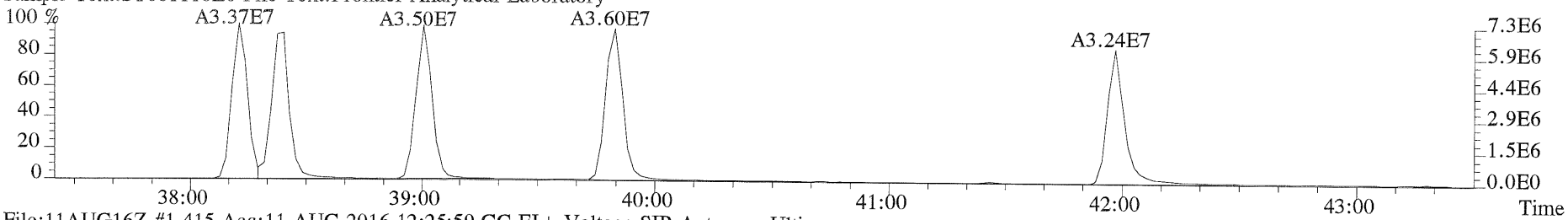
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



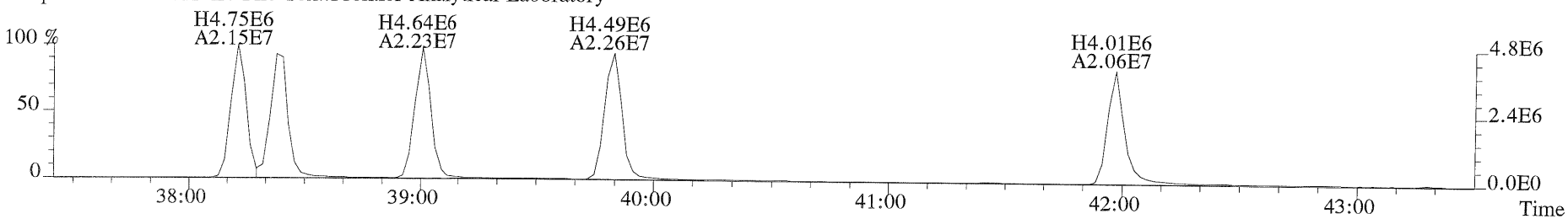
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



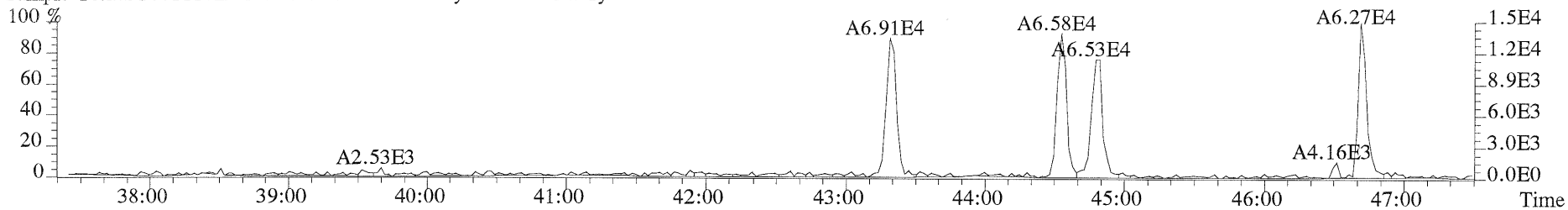
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



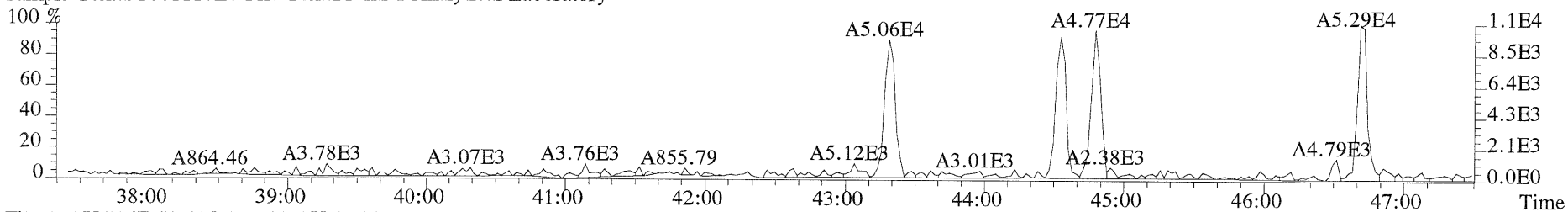
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



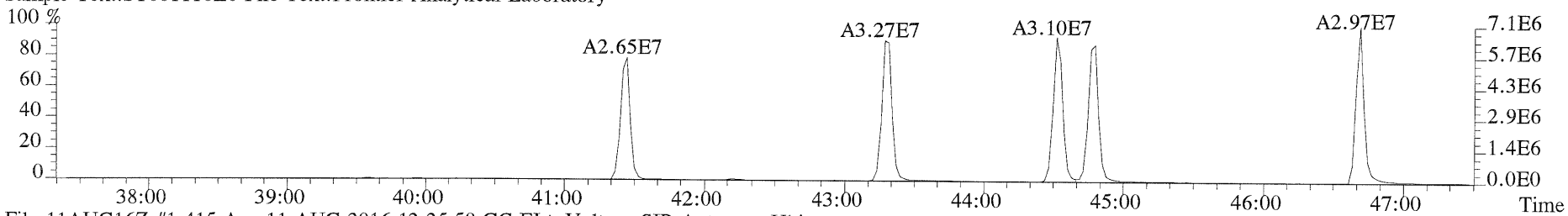
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



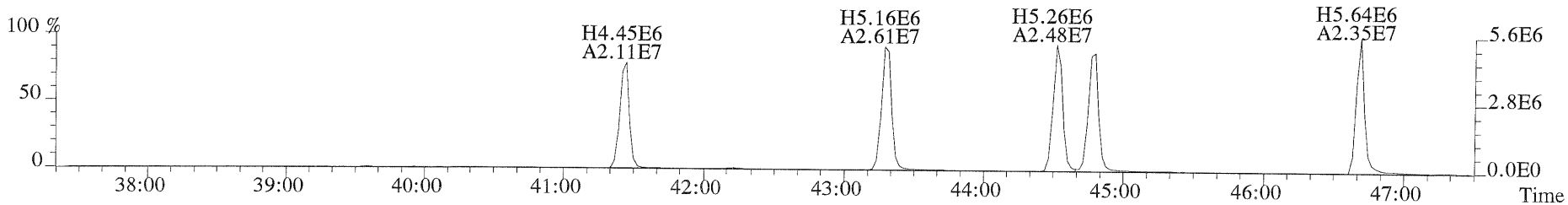
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



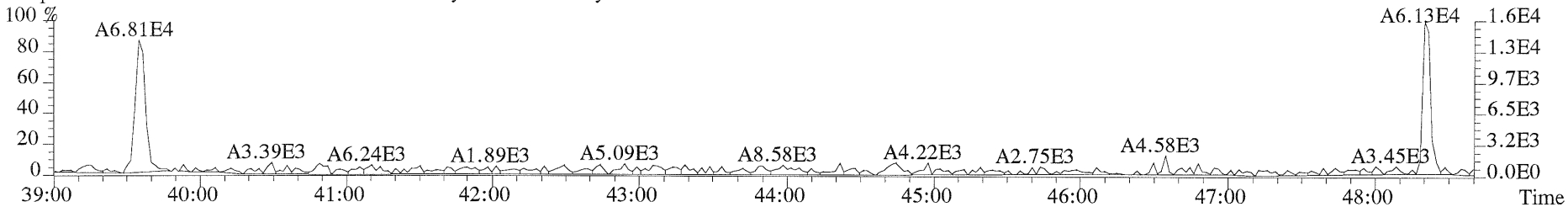
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



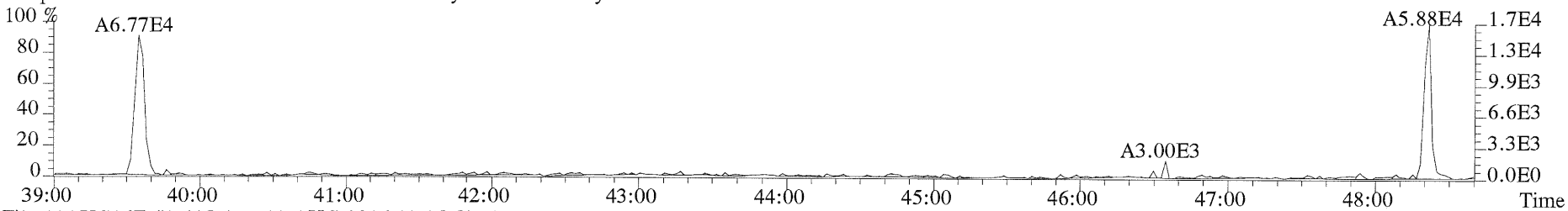
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



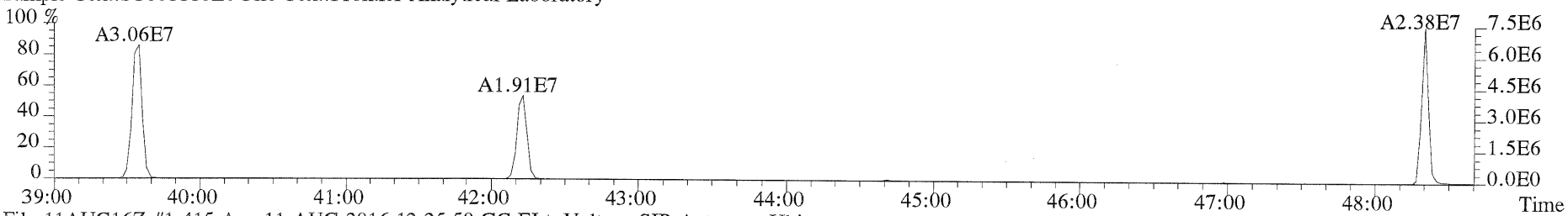
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



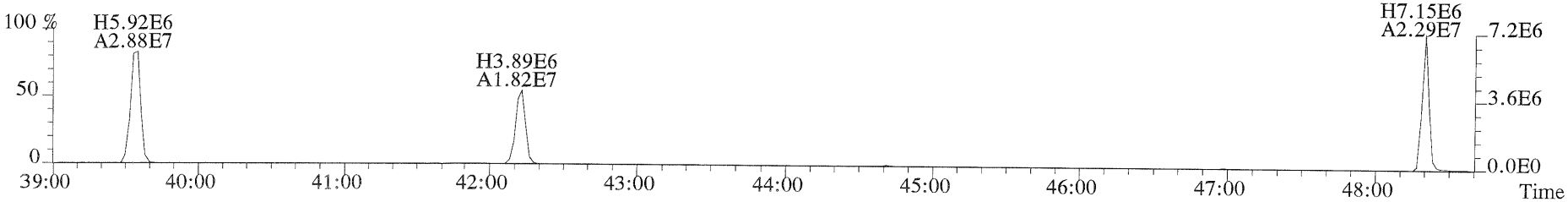
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



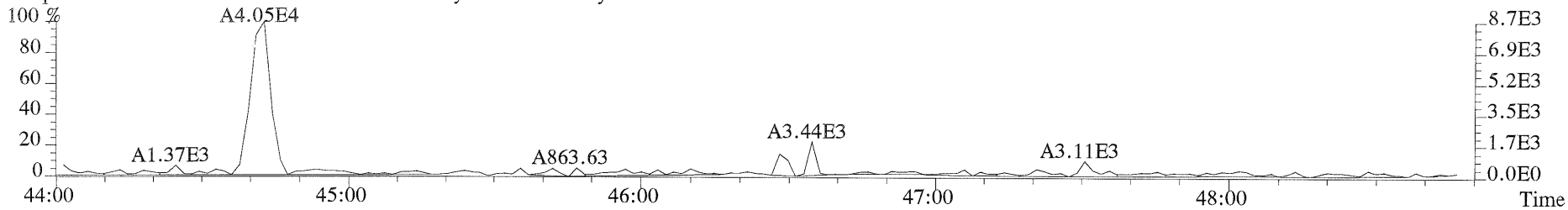
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



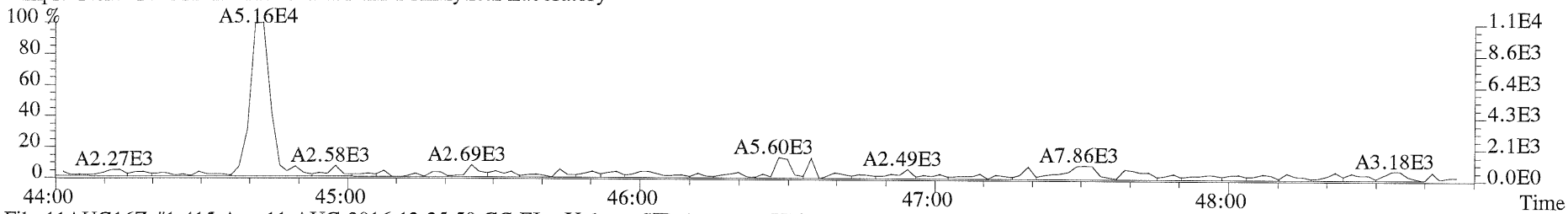
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



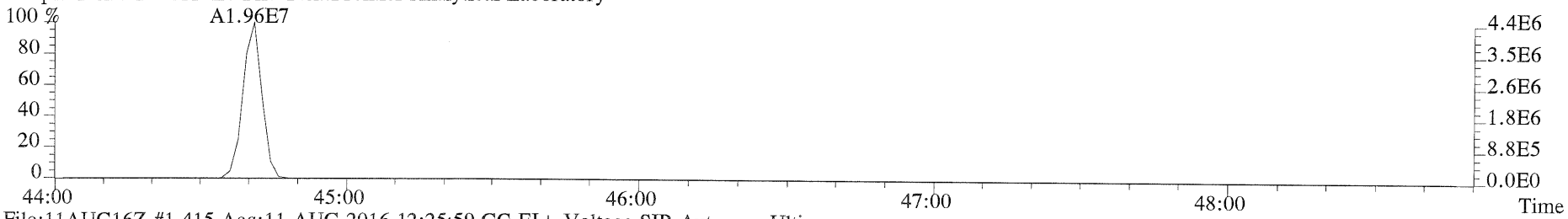
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



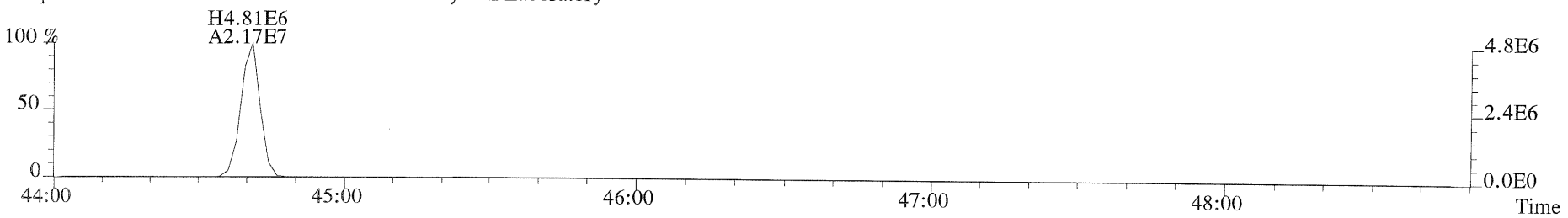
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



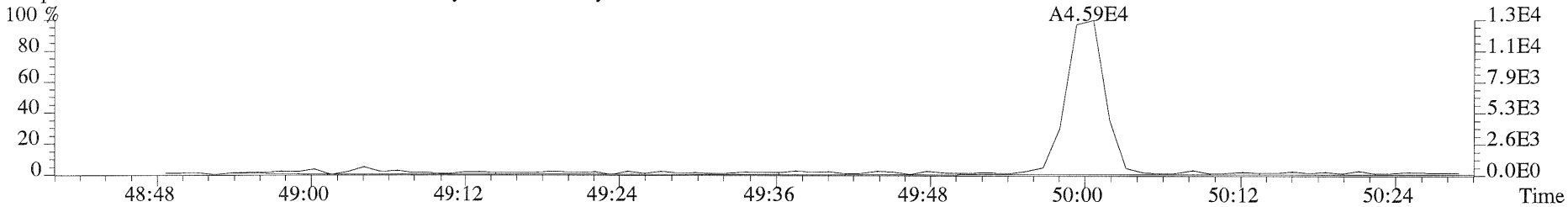
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



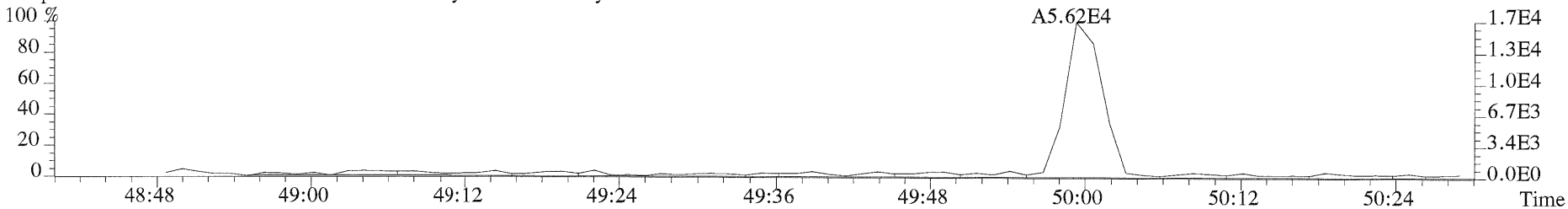
File:11AUG16Z #1-415 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



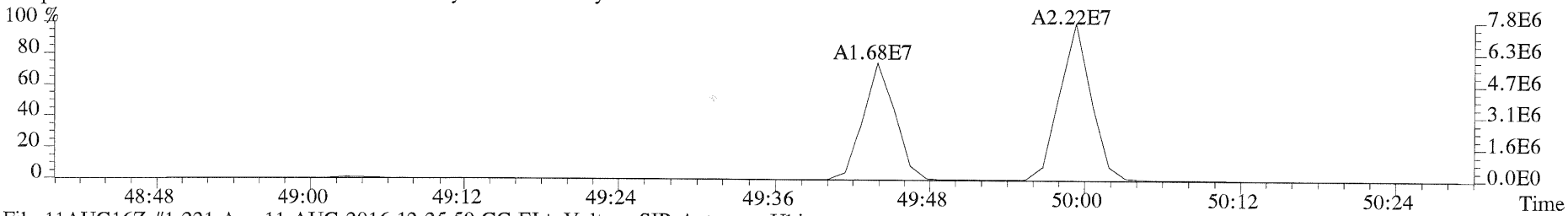
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



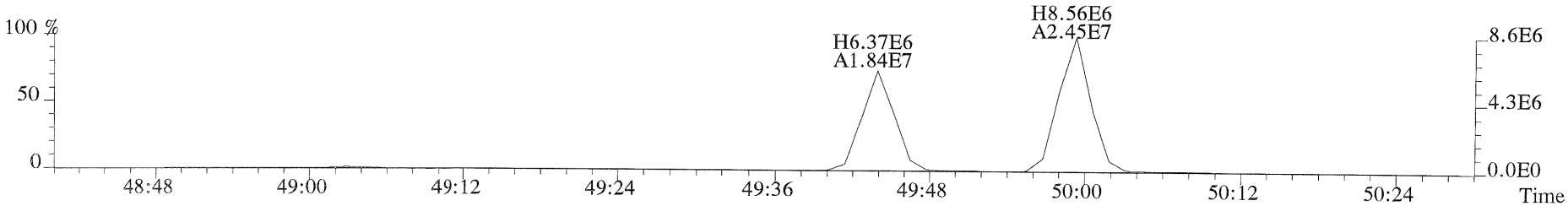
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



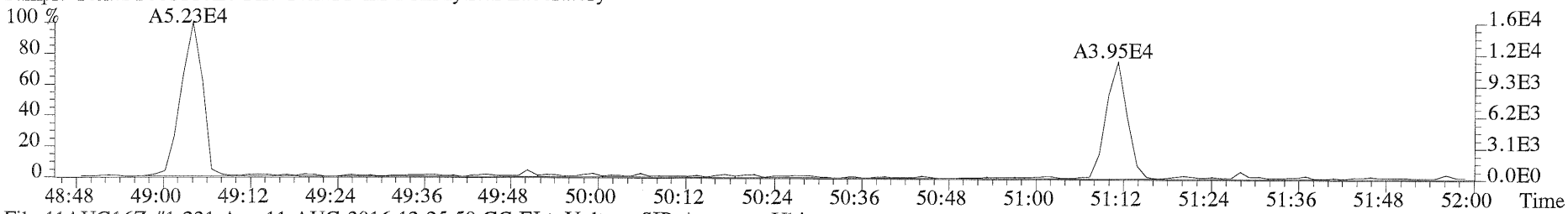
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



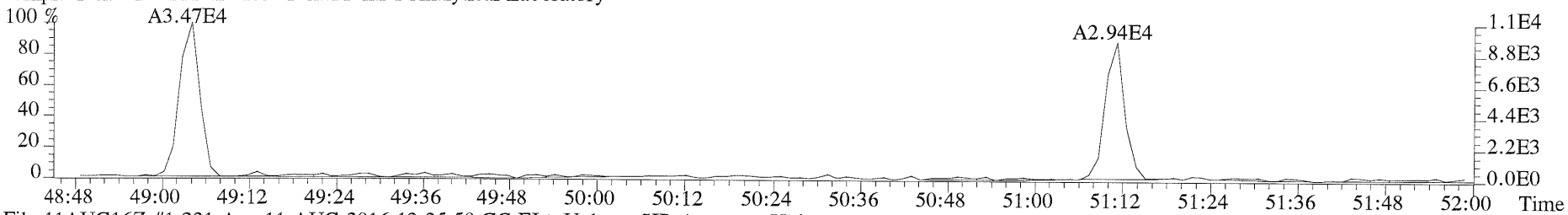
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



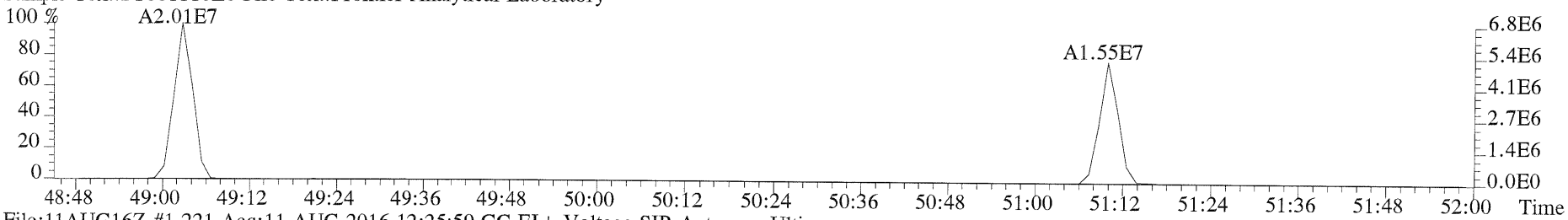
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



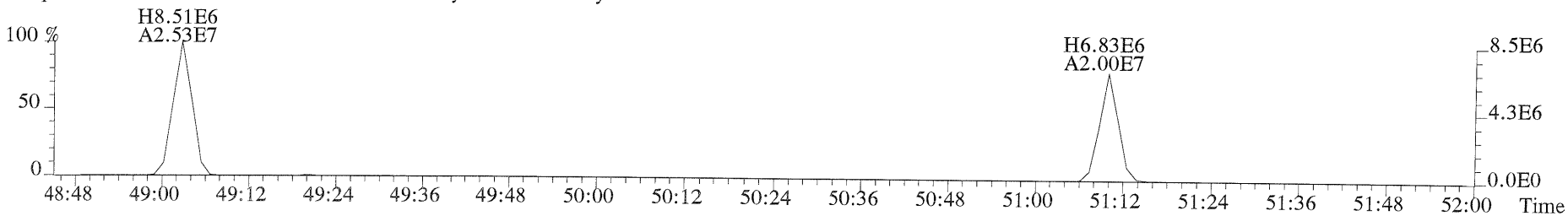
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



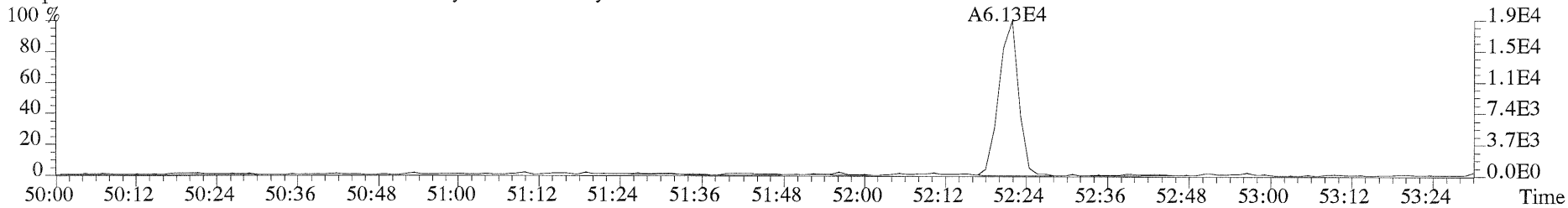
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



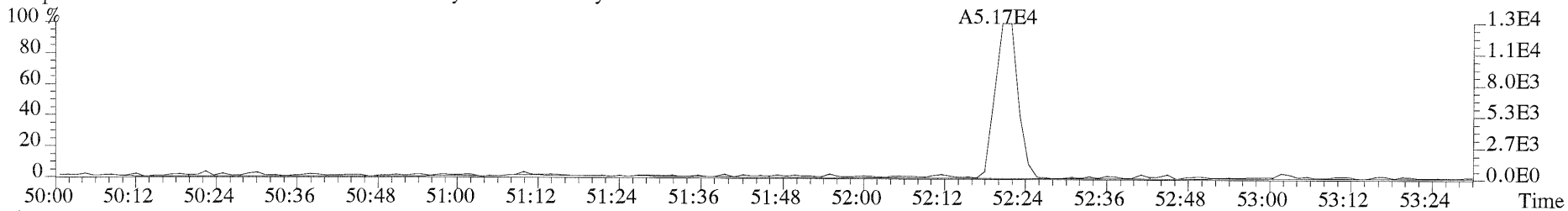
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



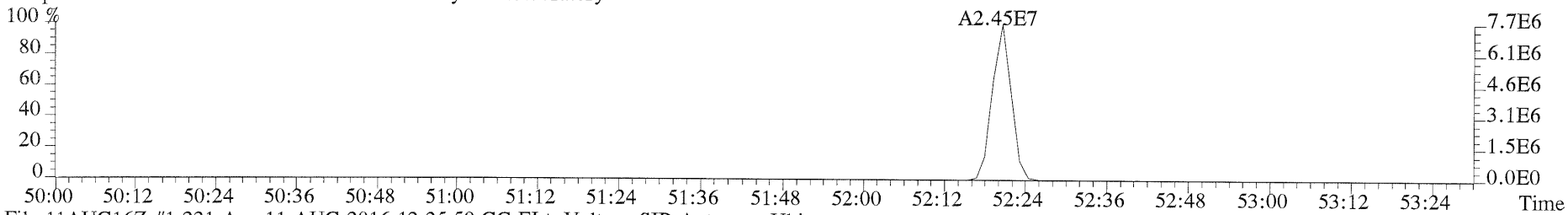
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



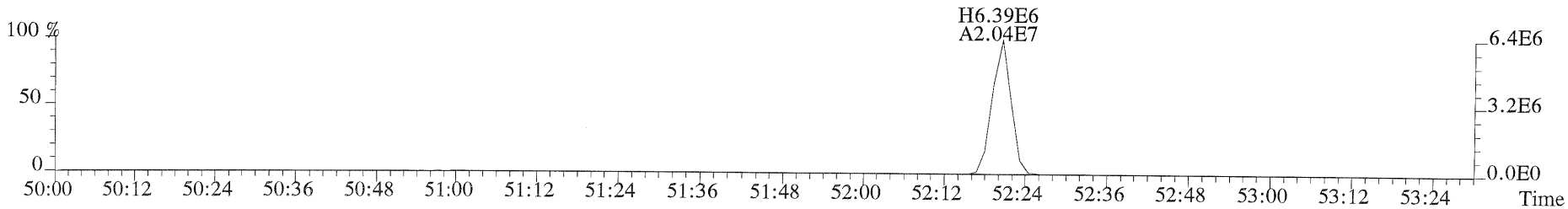
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



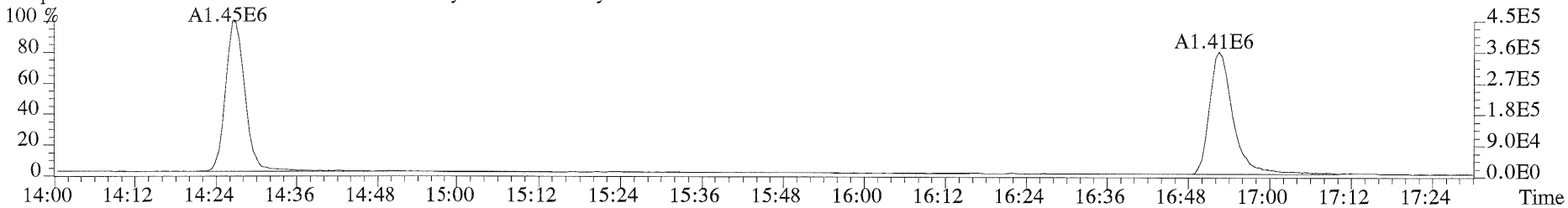
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



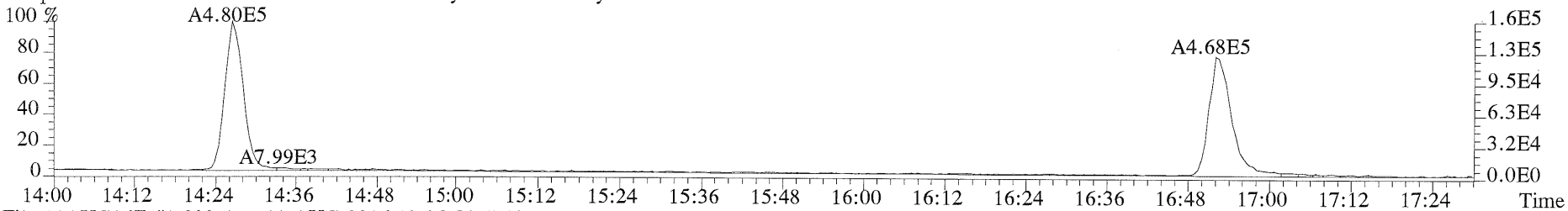
File:11AUG16Z #1-221 Acq:11-AUG-2016 12:25:59 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z0 File Text:Frontier Analytical Laboratory



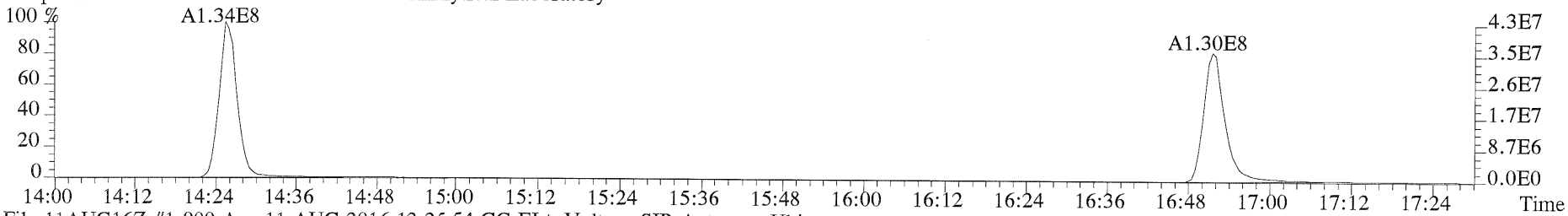
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



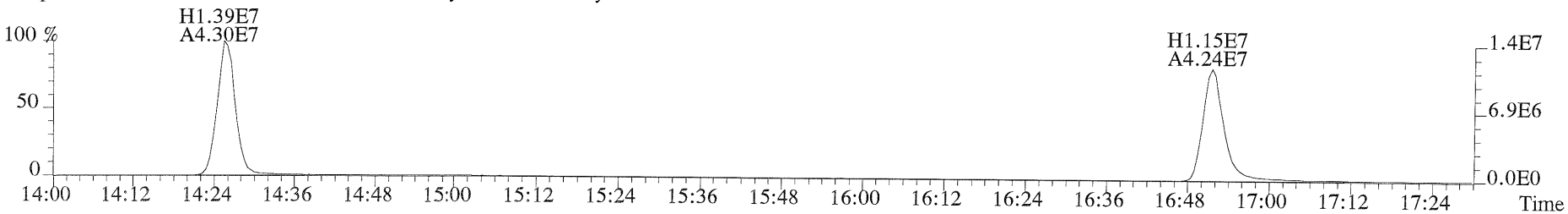
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



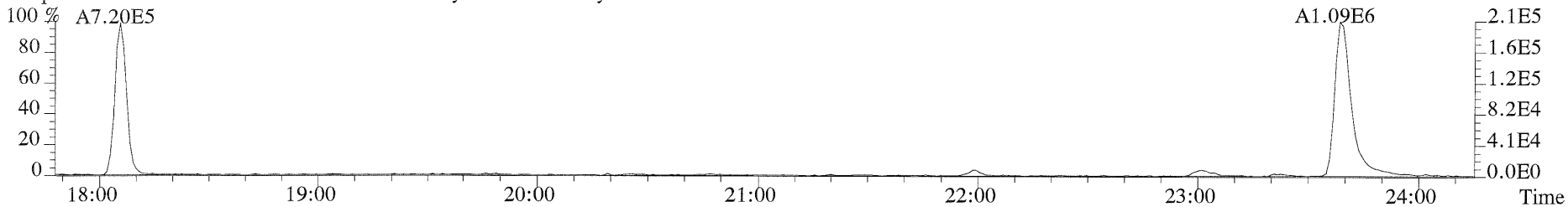
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



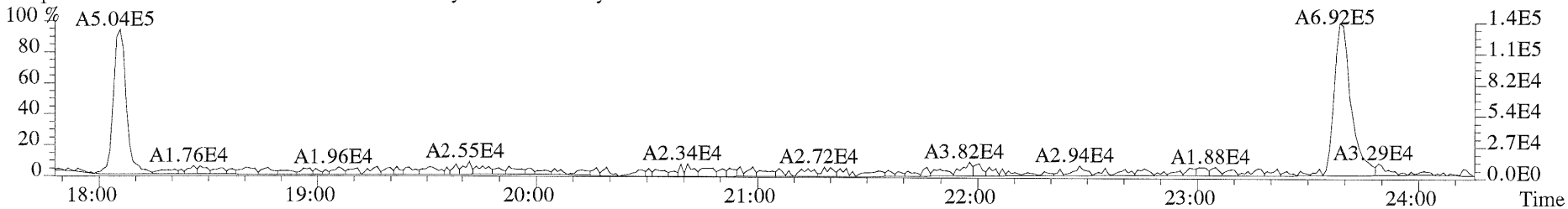
File:11AUG16Z #1-900 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



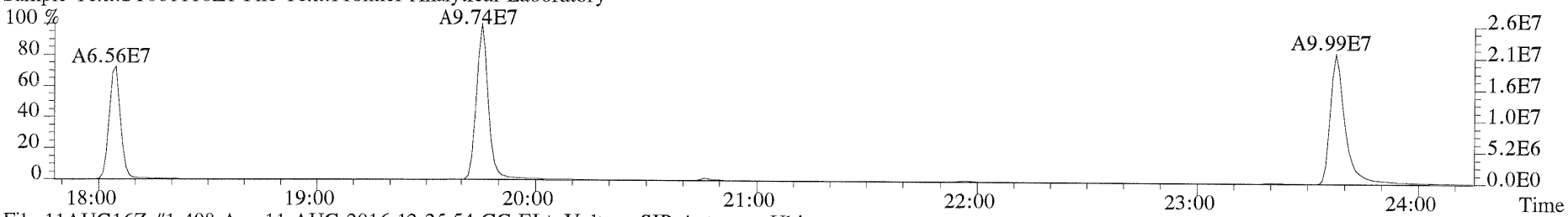
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



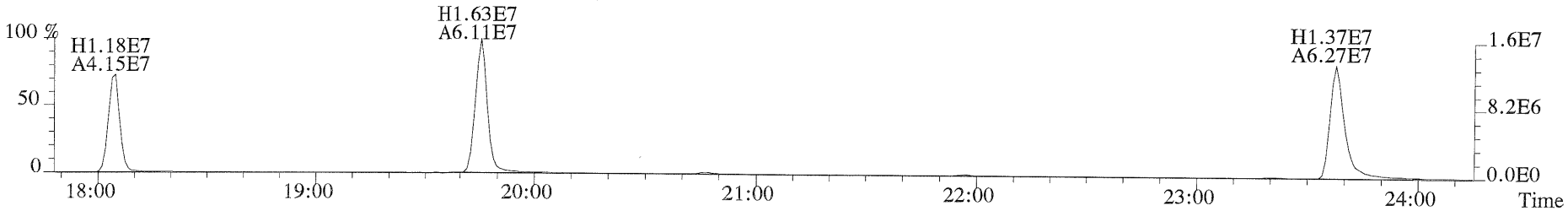
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



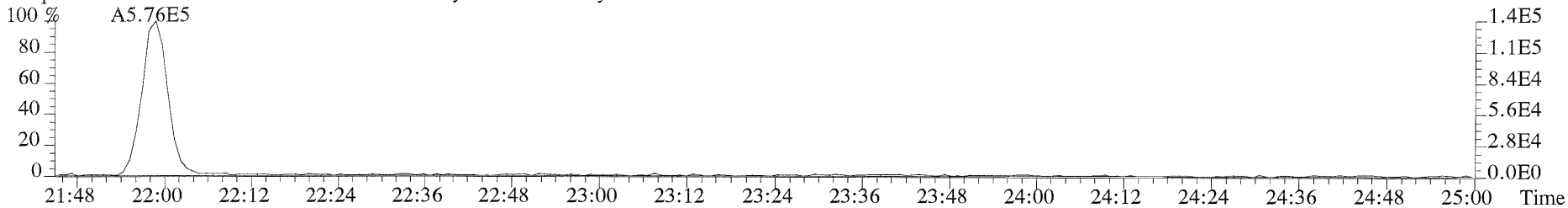
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



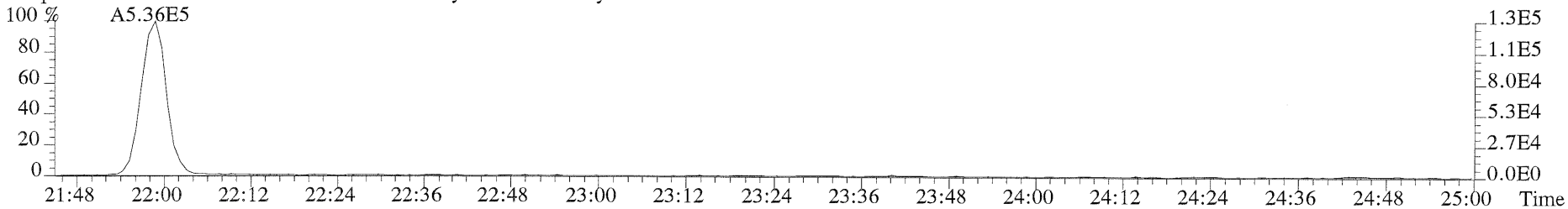
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



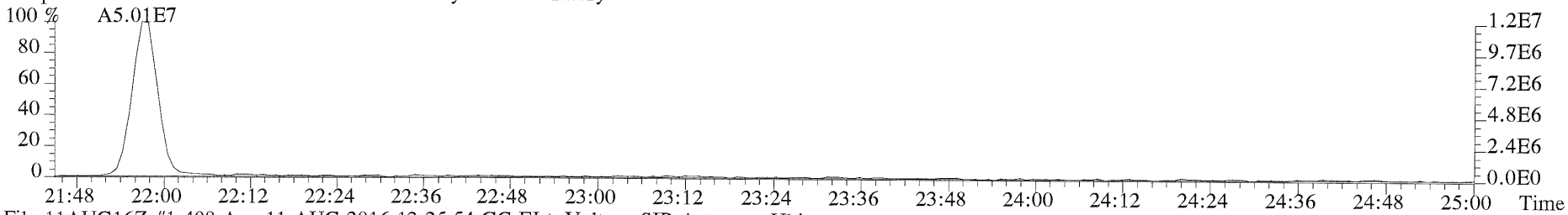
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



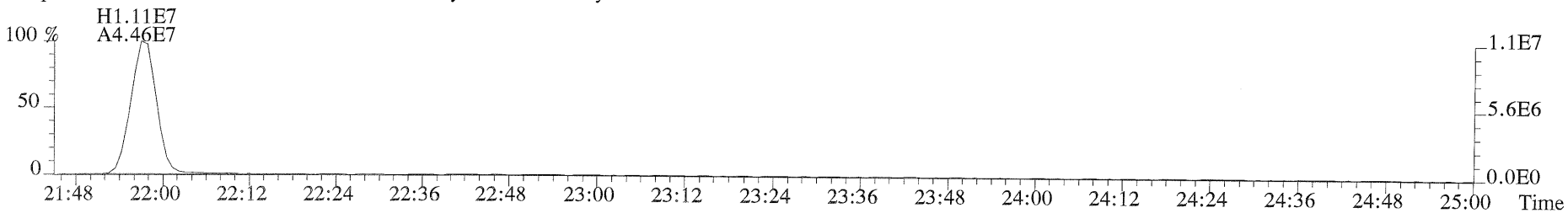
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



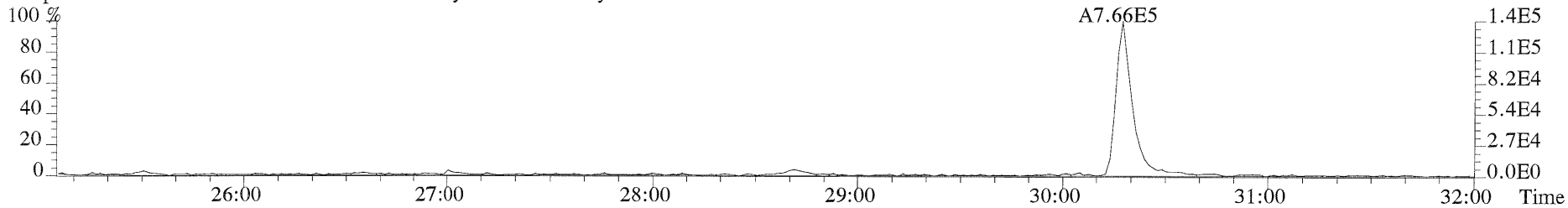
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



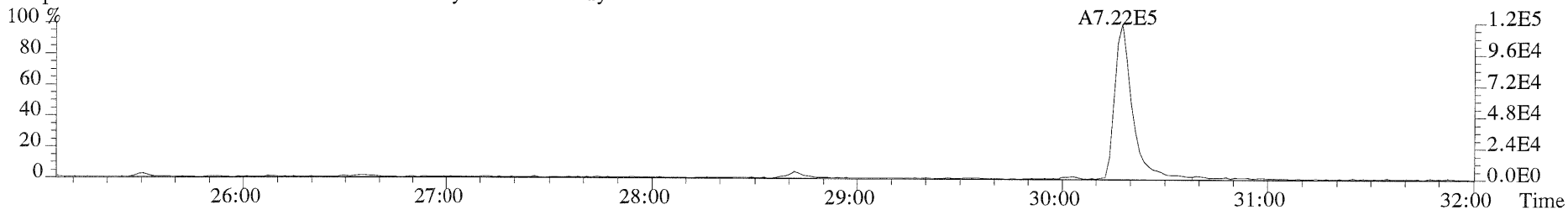
File:11AUG16Z #1-498 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



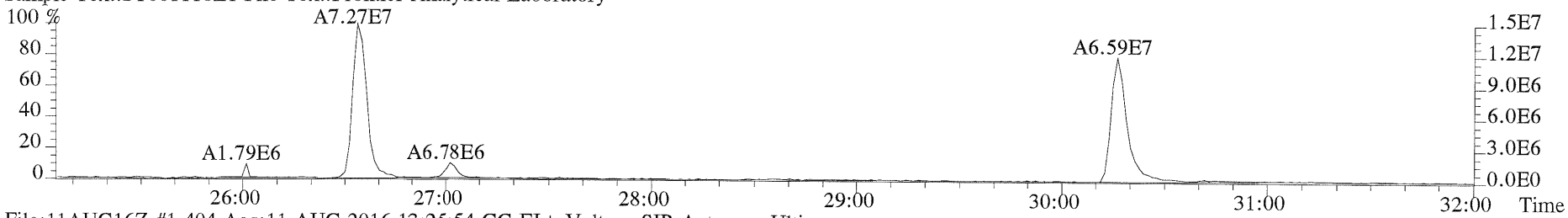
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



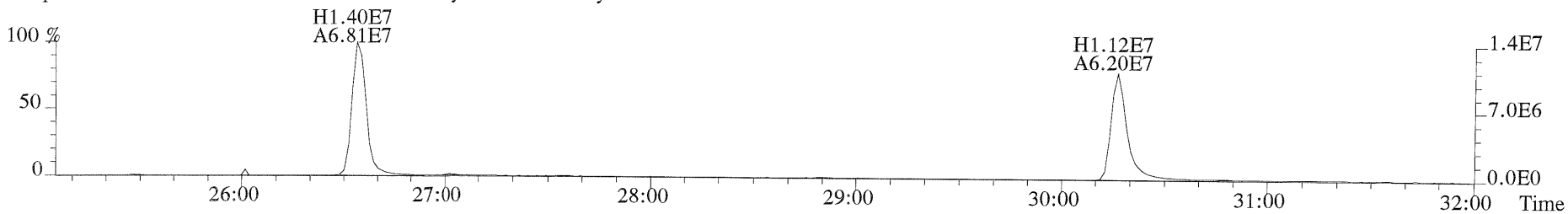
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



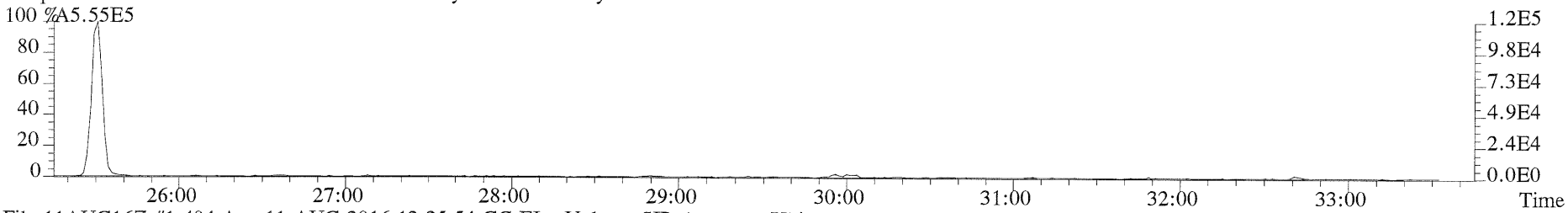
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



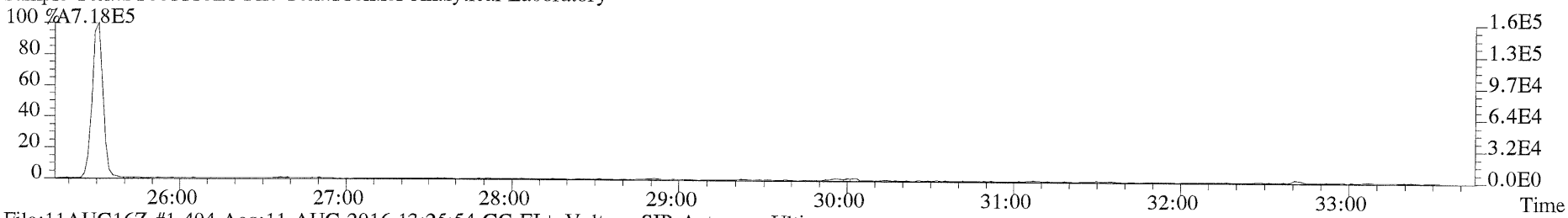
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



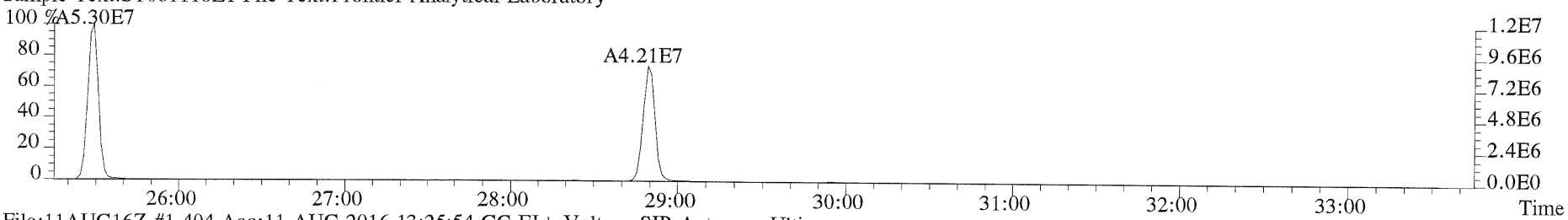
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



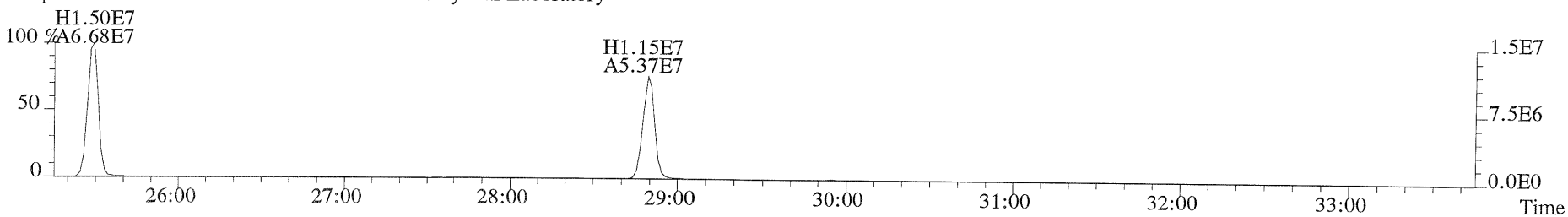
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



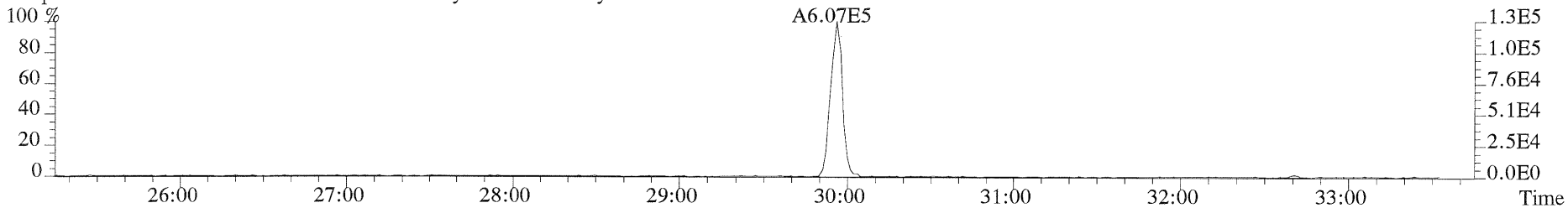
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



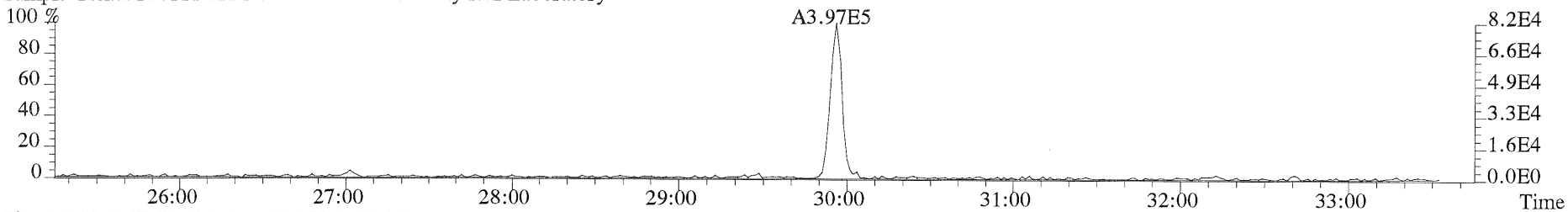
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



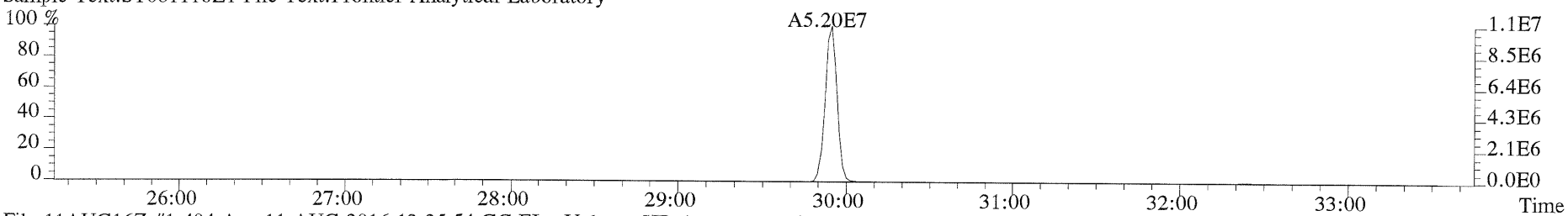
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



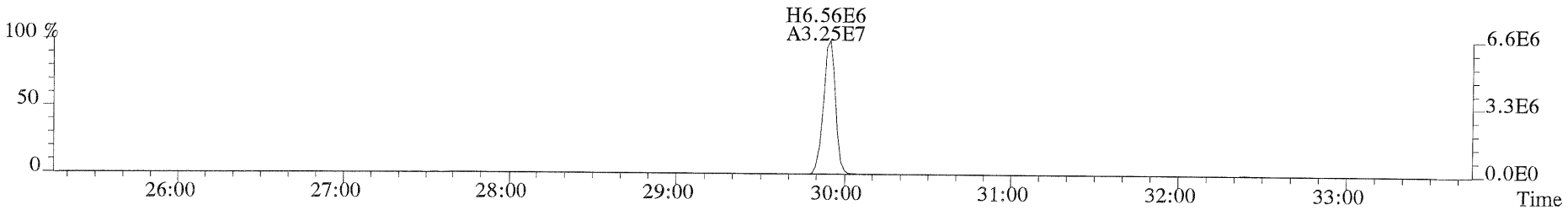
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



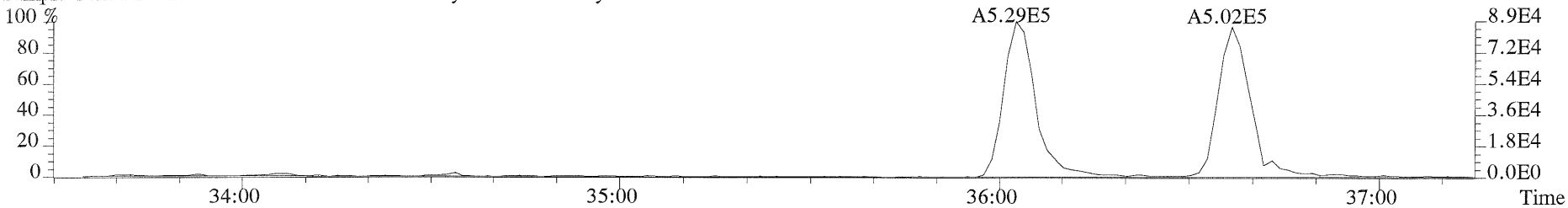
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



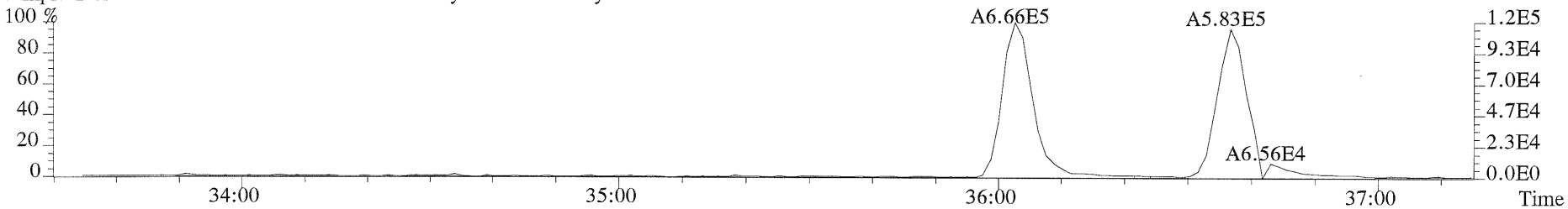
File:11AUG16Z #1-404 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



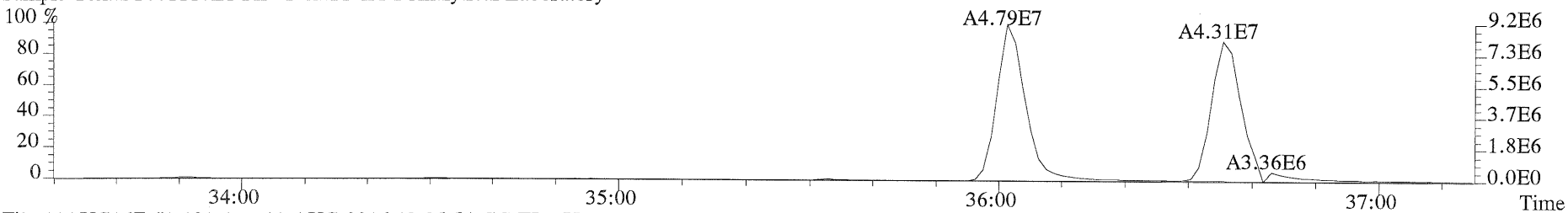
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



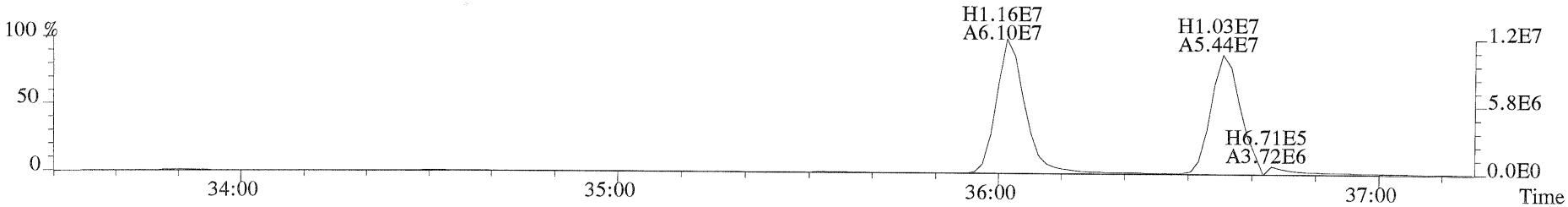
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



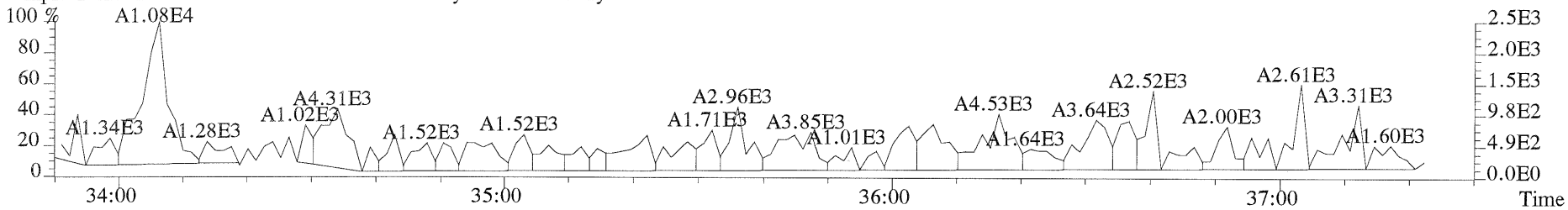
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



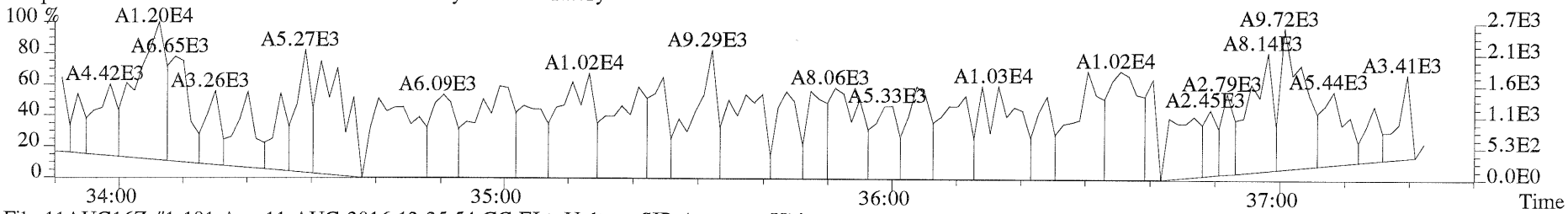
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



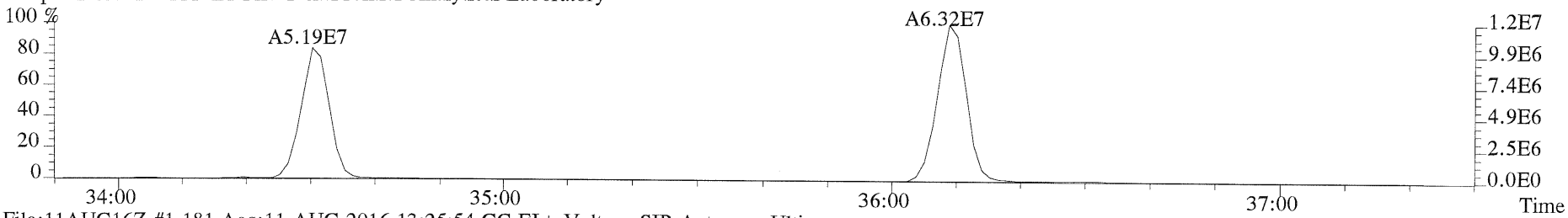
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



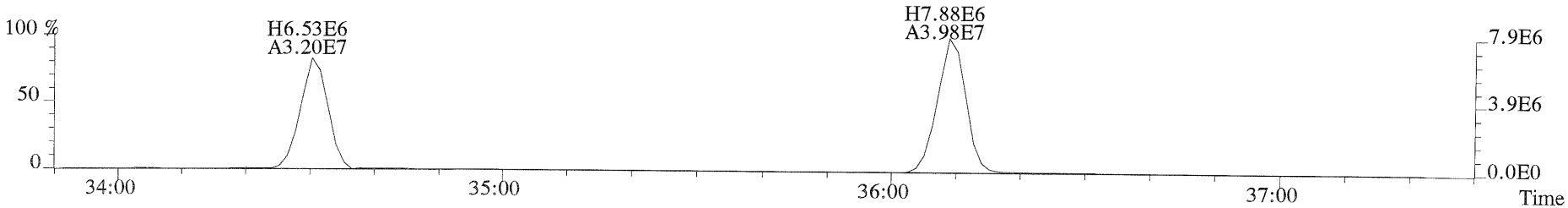
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



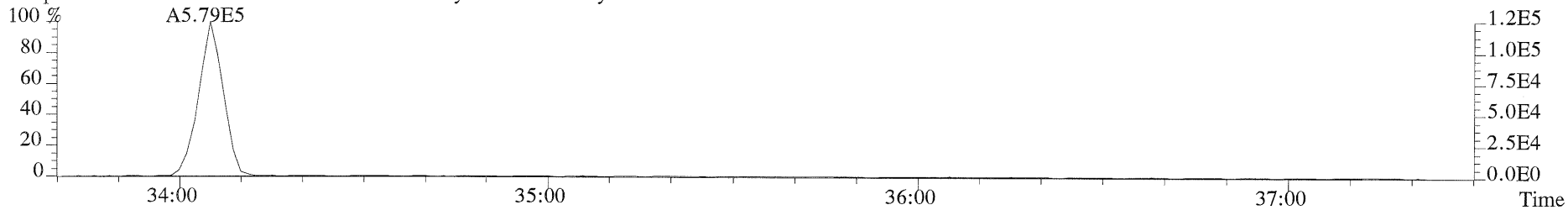
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



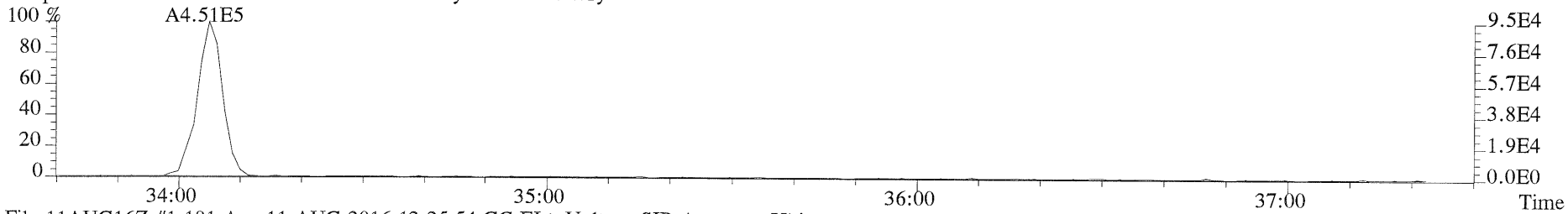
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



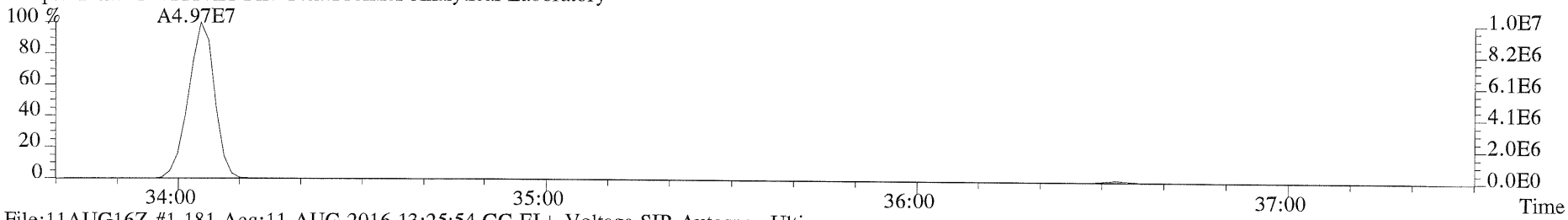
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



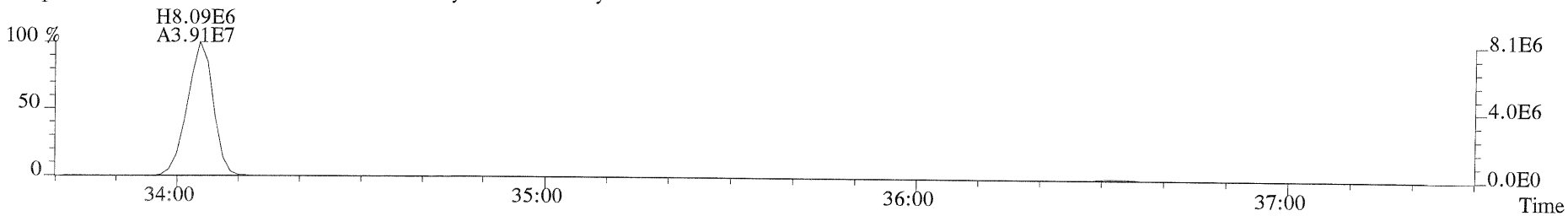
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



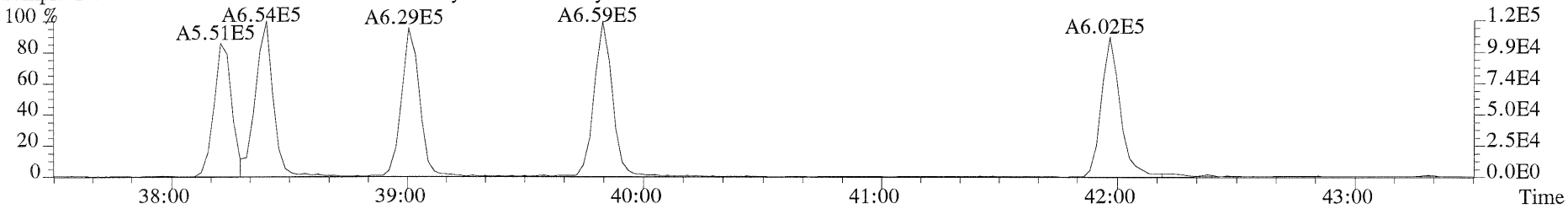
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



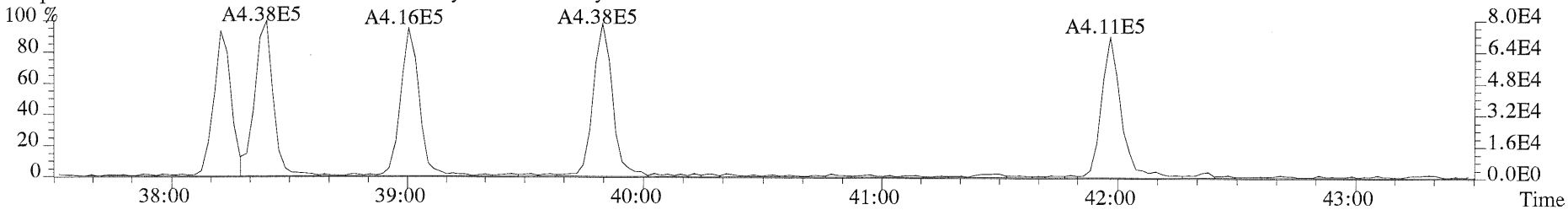
File:11AUG16Z #1-181 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



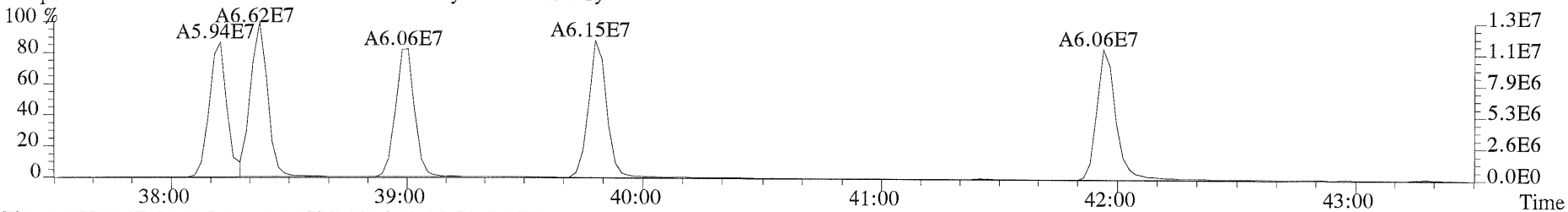
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



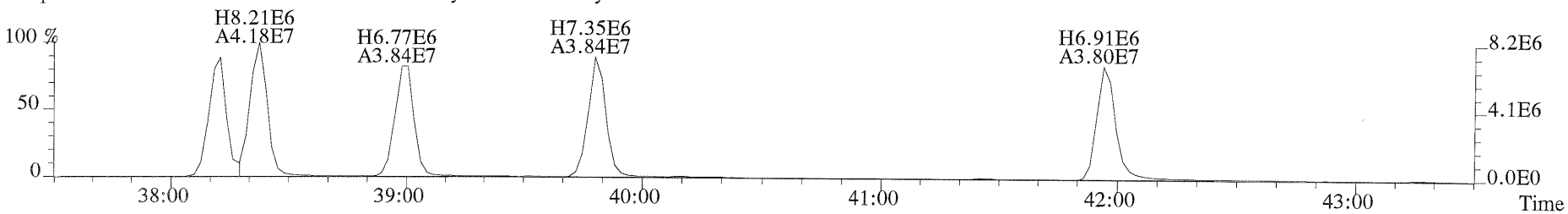
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



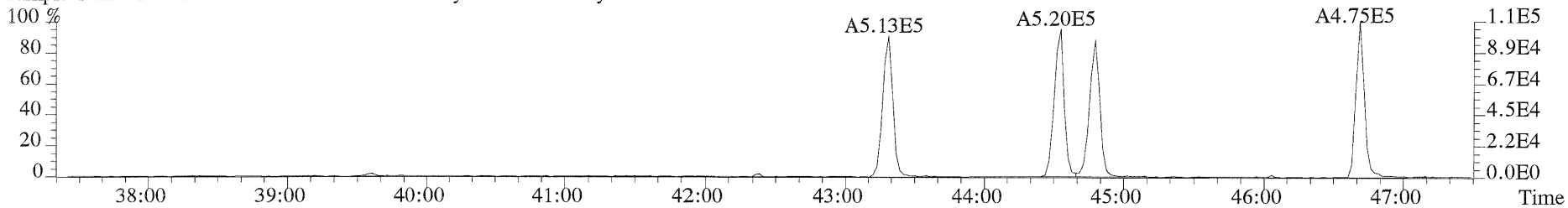
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



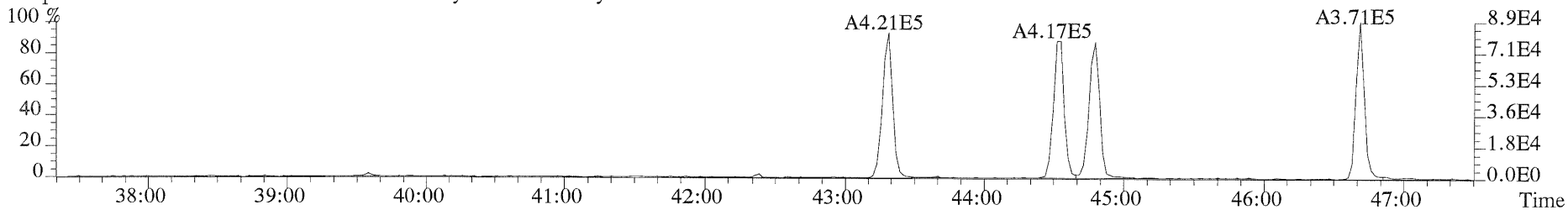
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



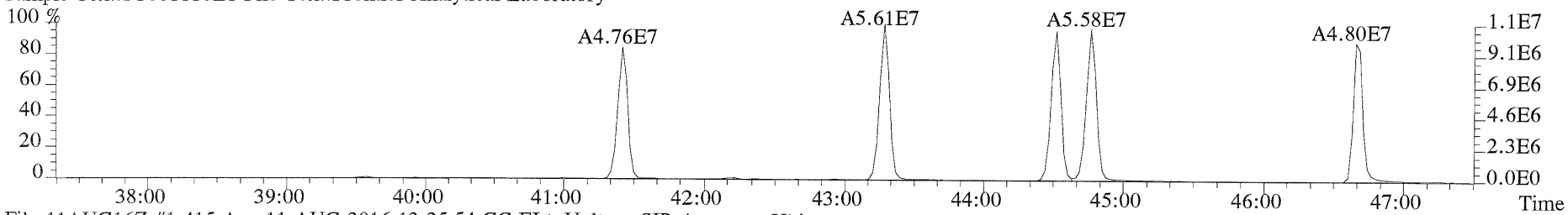
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



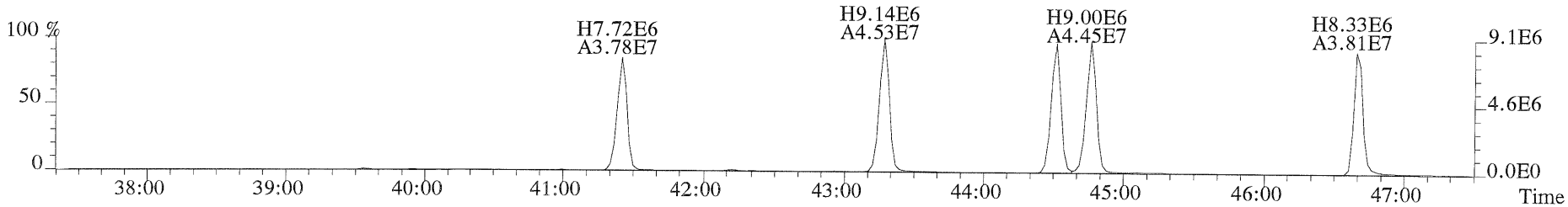
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



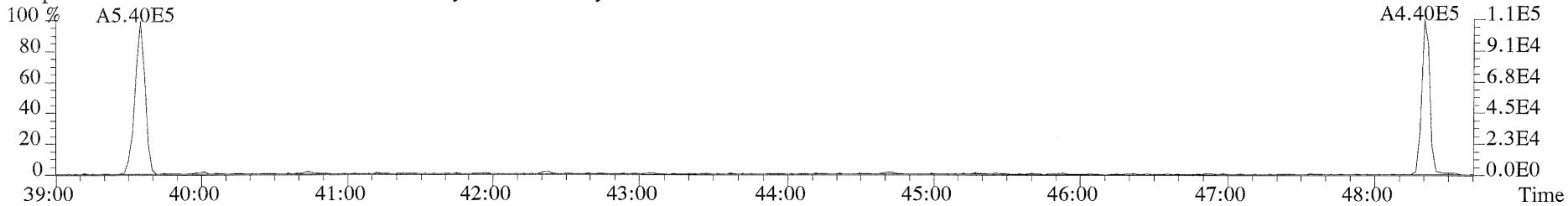
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



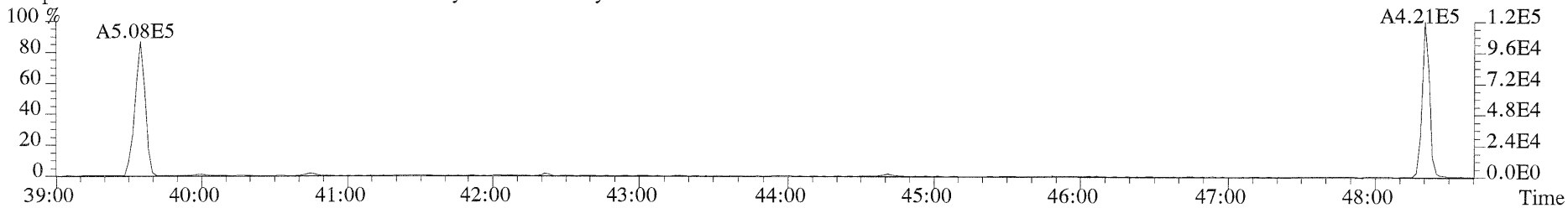
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



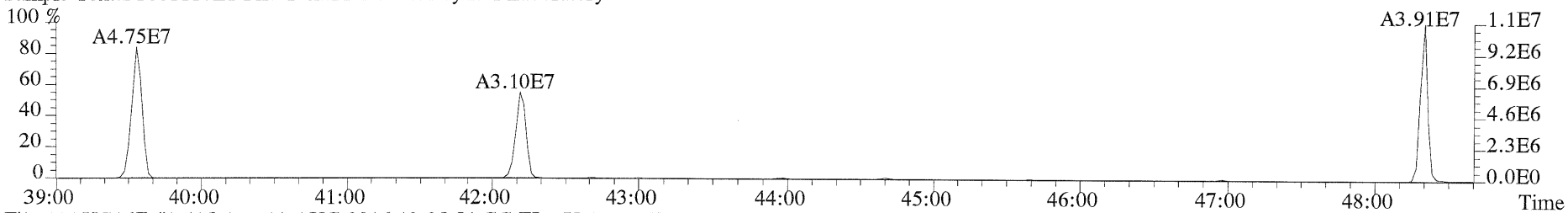
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



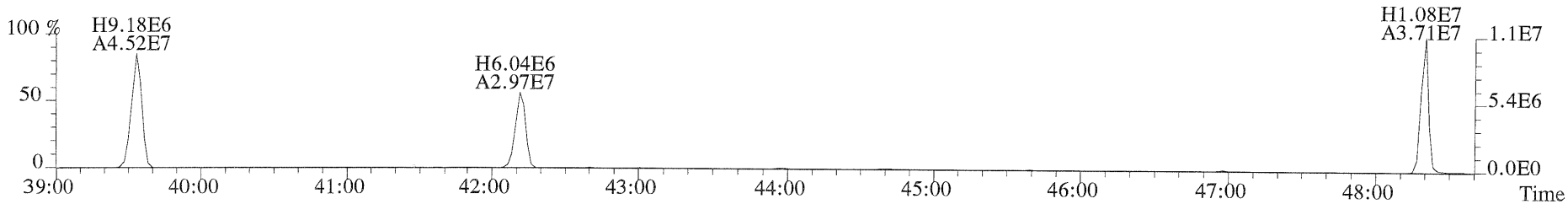
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



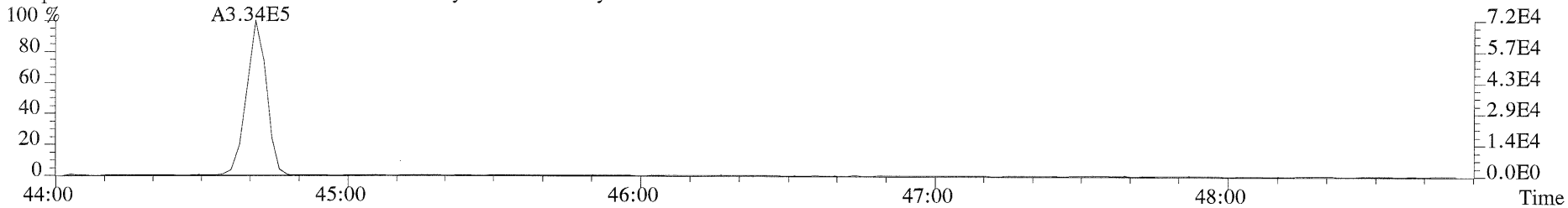
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



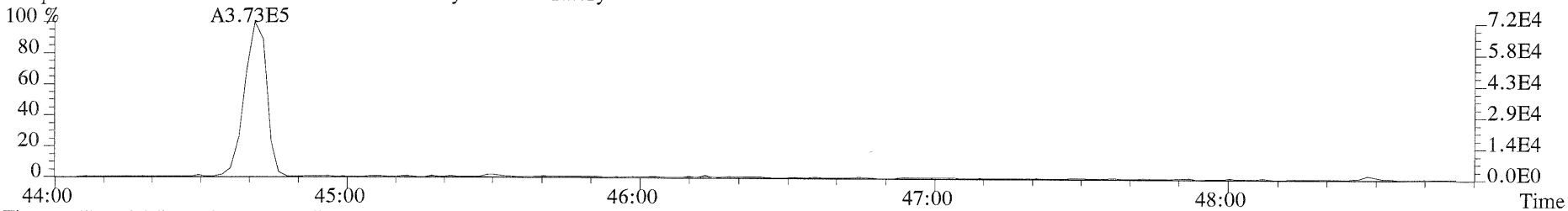
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



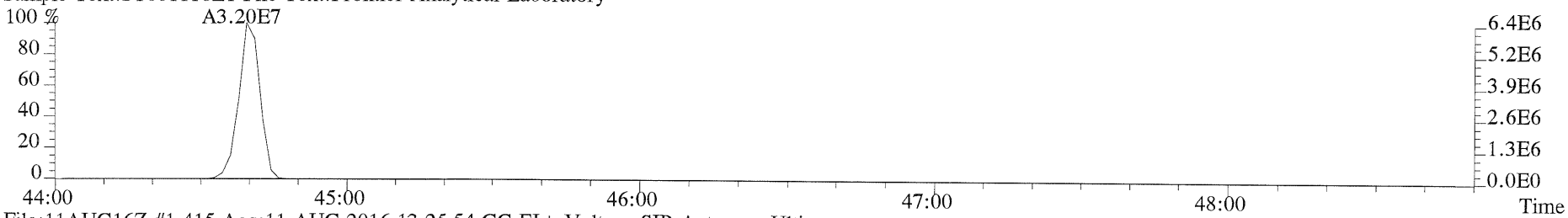
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



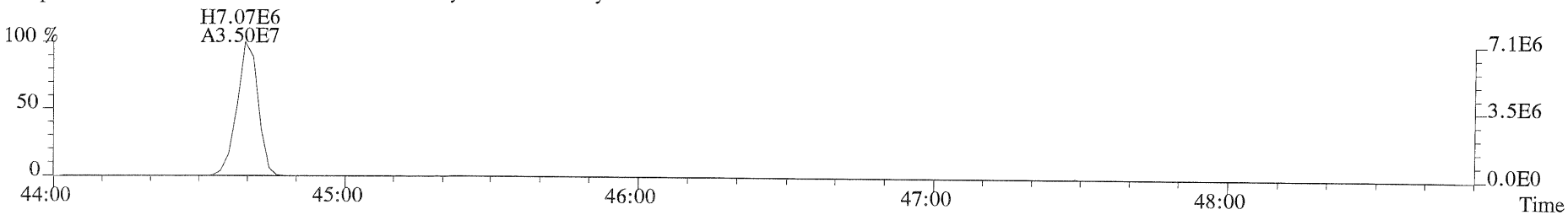
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



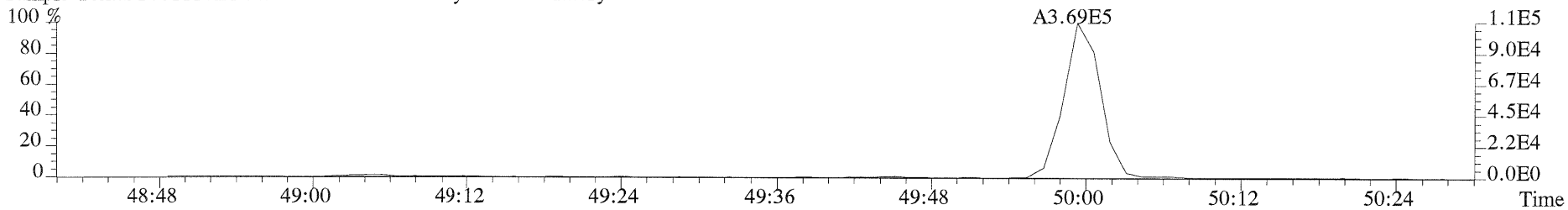
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



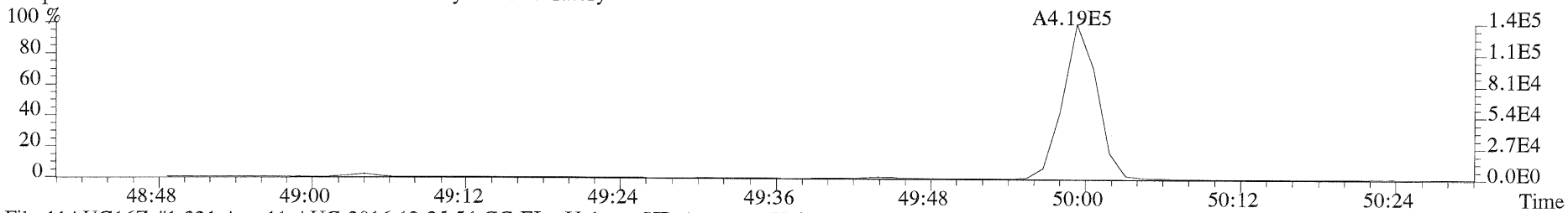
File:11AUG16Z #1-415 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



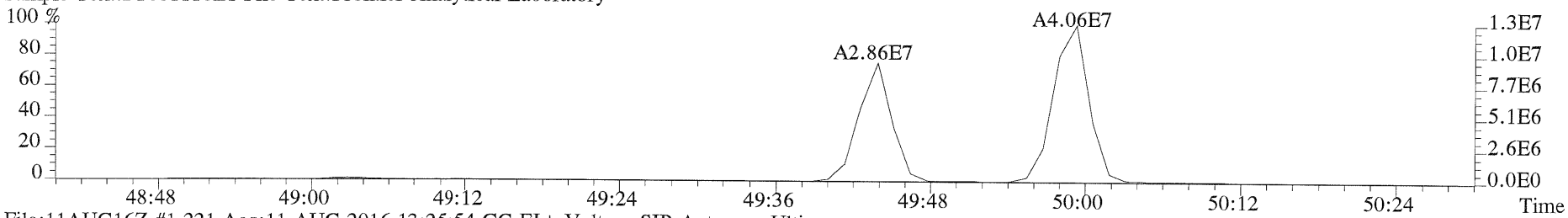
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



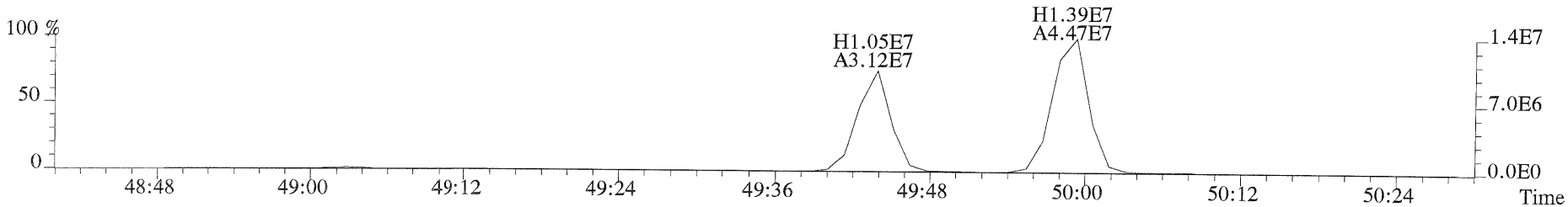
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



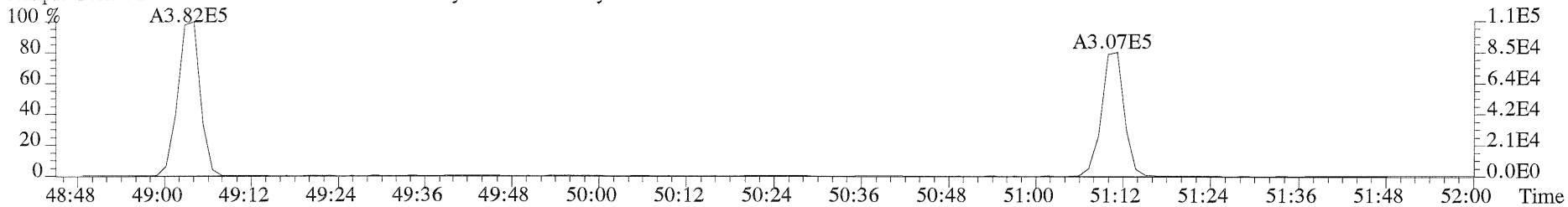
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



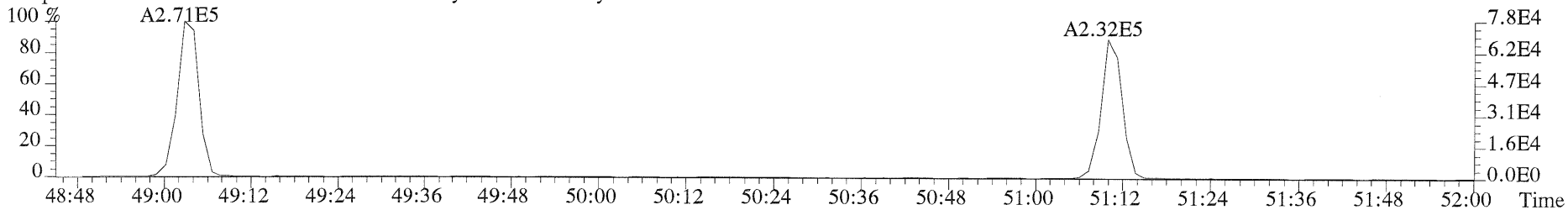
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



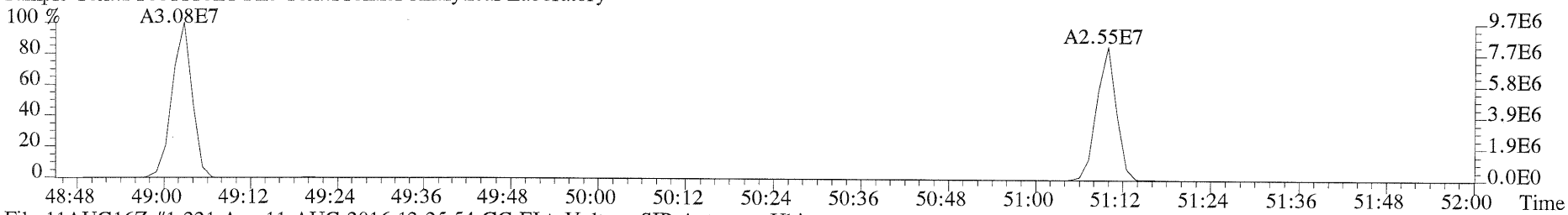
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



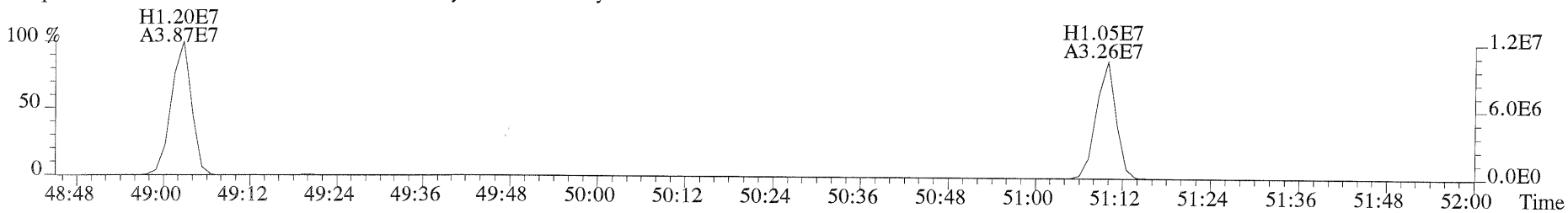
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



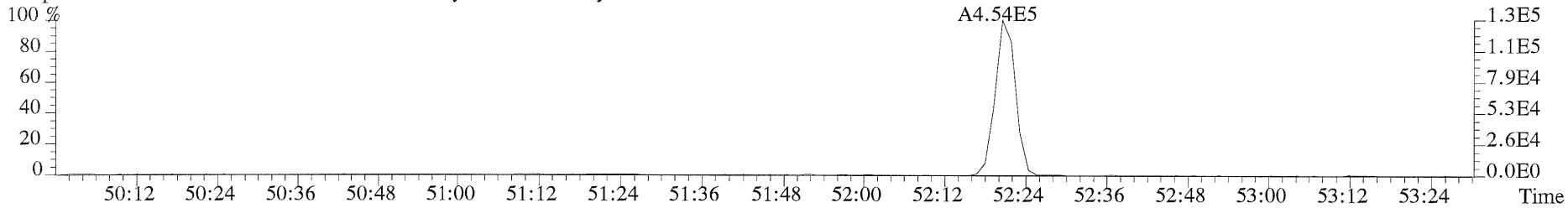
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



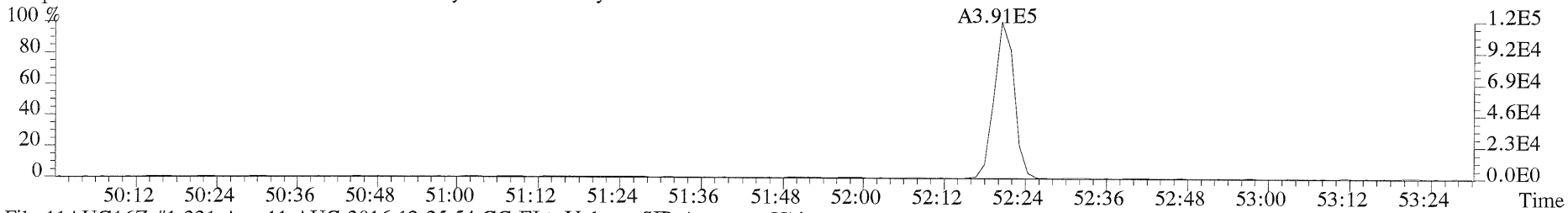
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:3 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



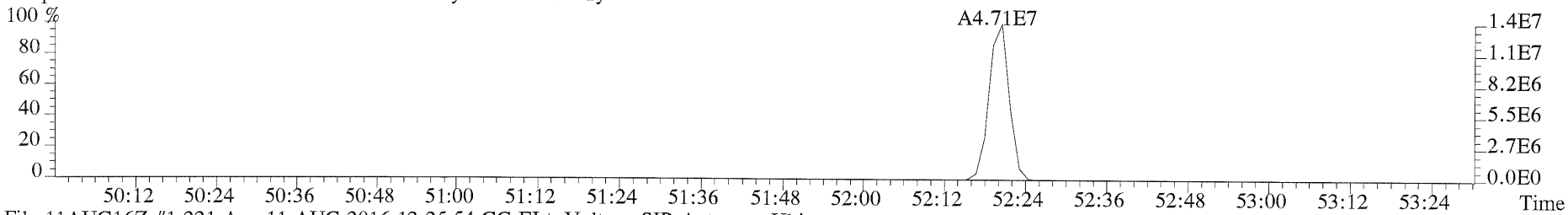
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



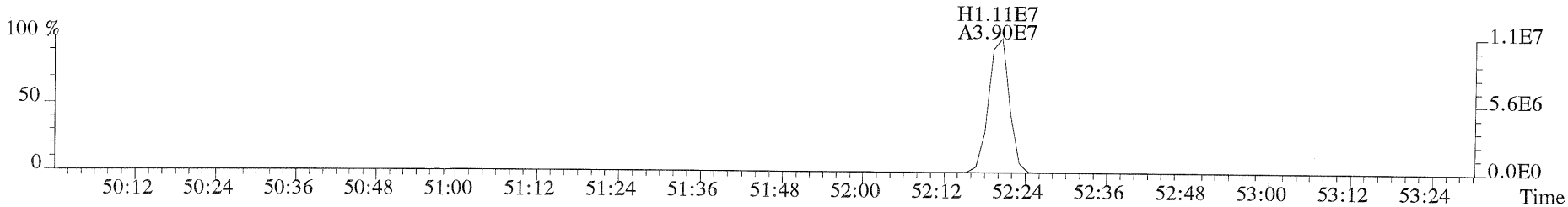
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



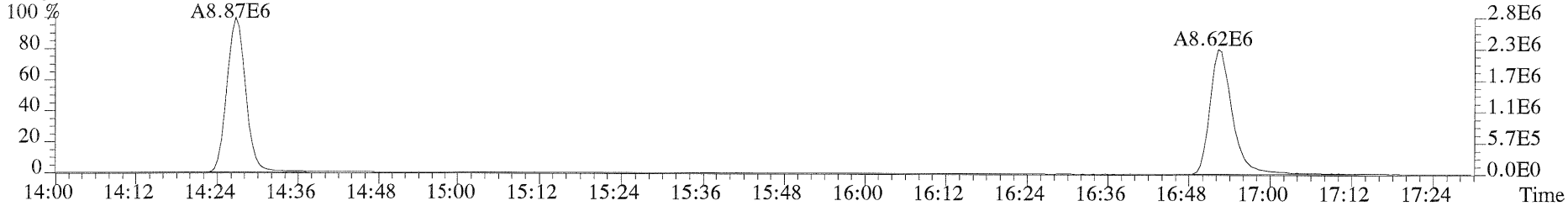
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



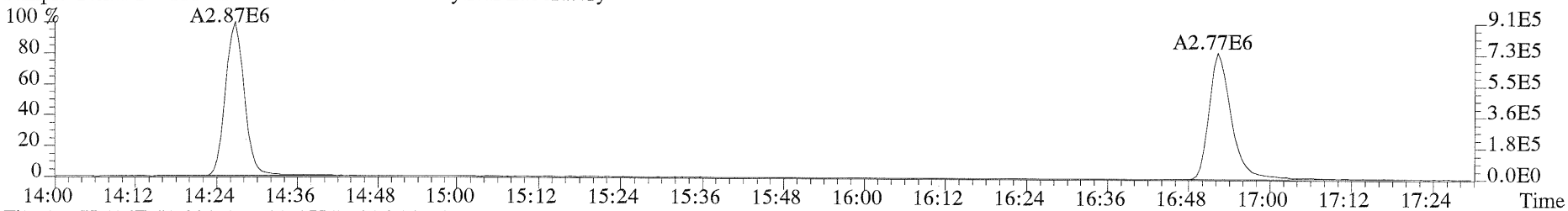
File:11AUG16Z #1-221 Acq:11-AUG-2016 13:25:54 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:3 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z1 File Text:Frontier Analytical Laboratory



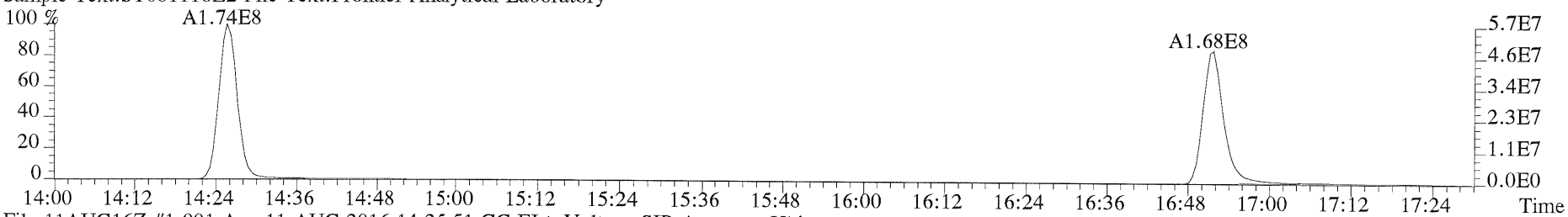
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



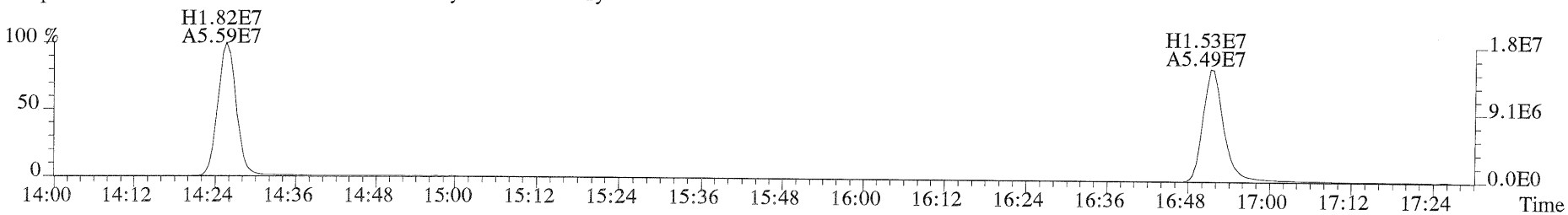
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



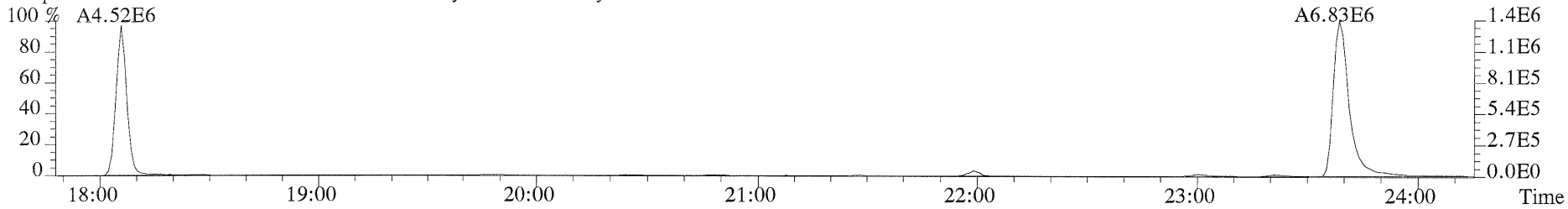
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



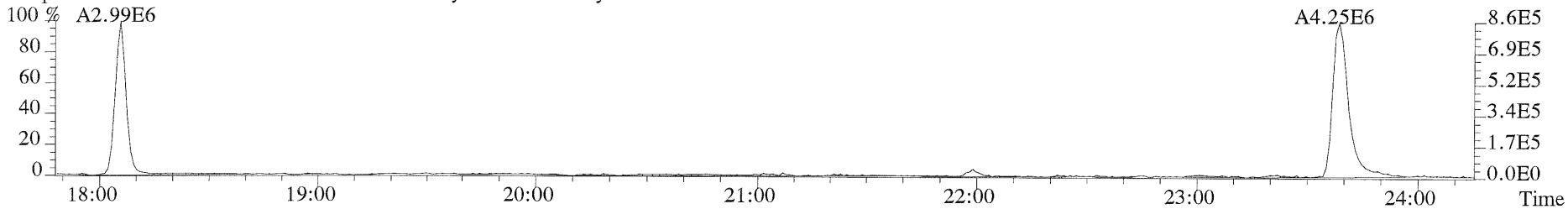
File:11AUG16Z #1-901 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



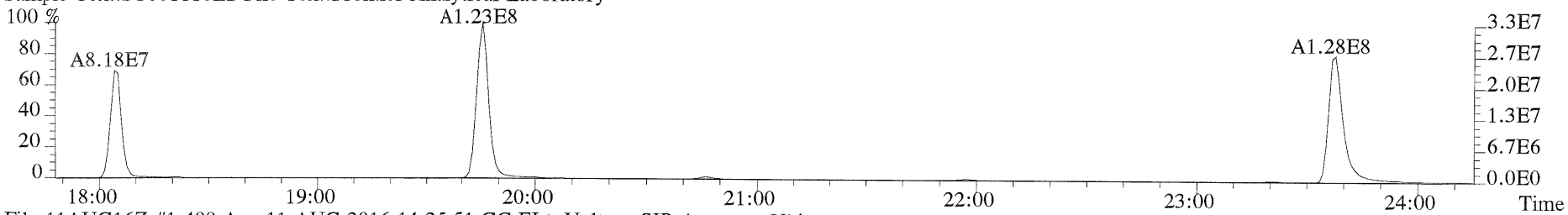
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



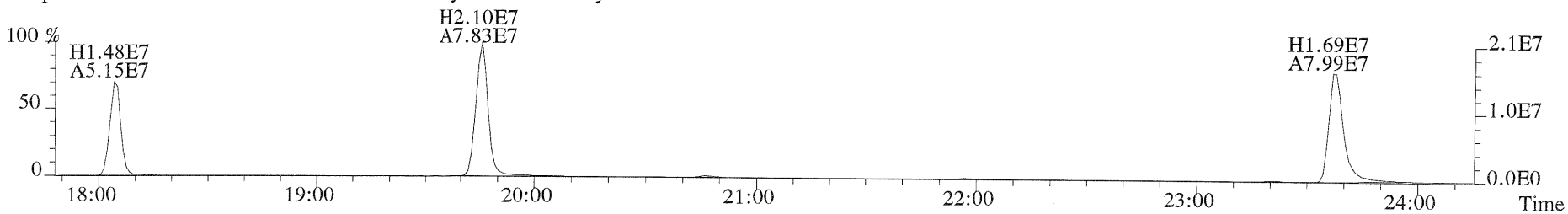
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



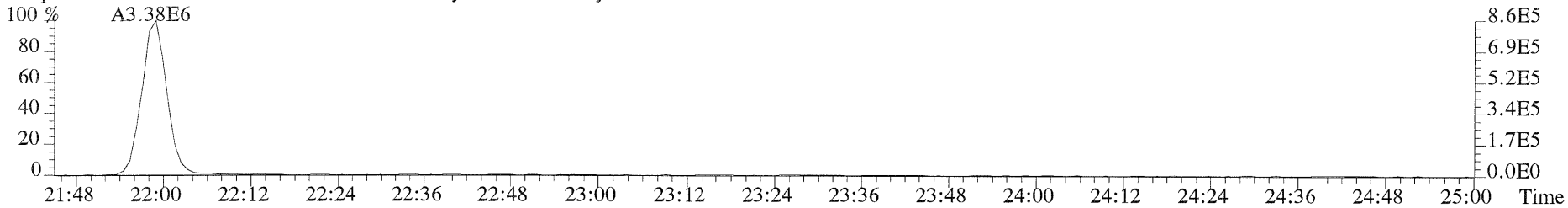
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



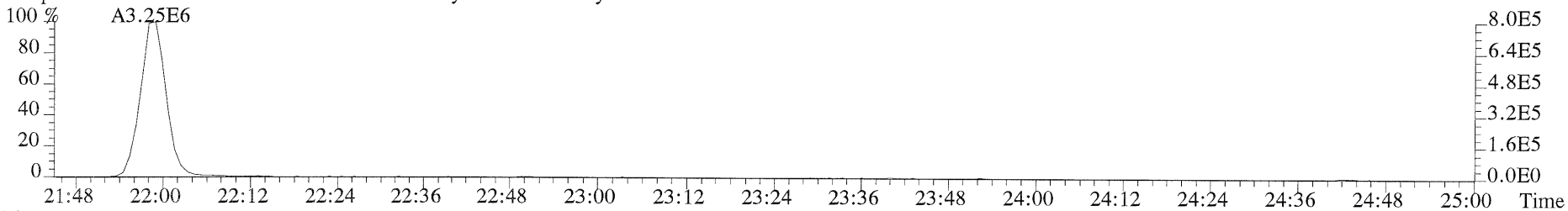
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



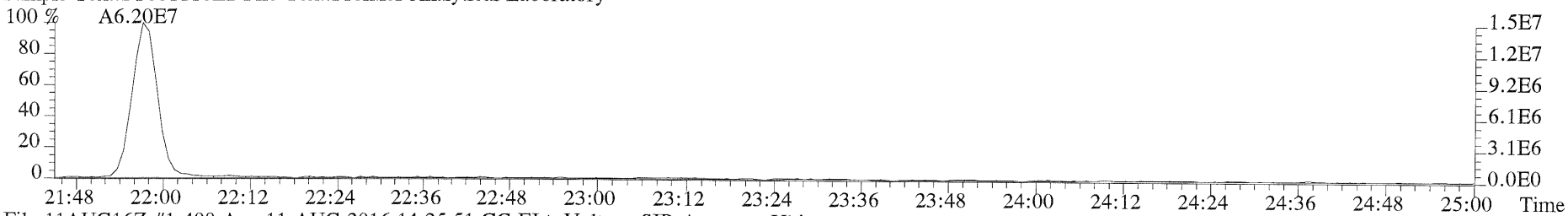
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



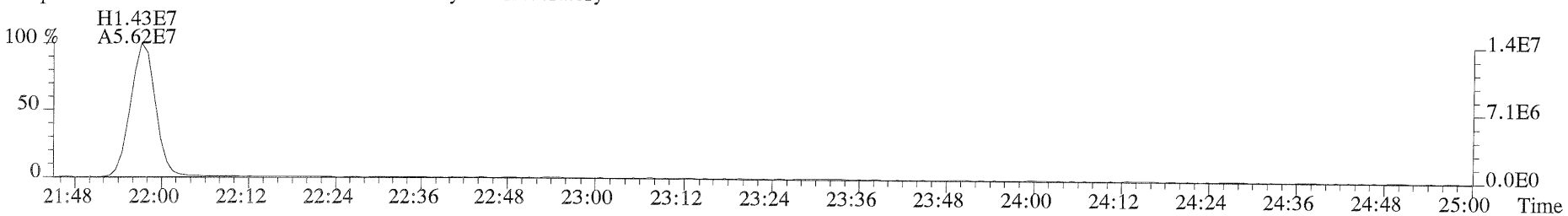
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



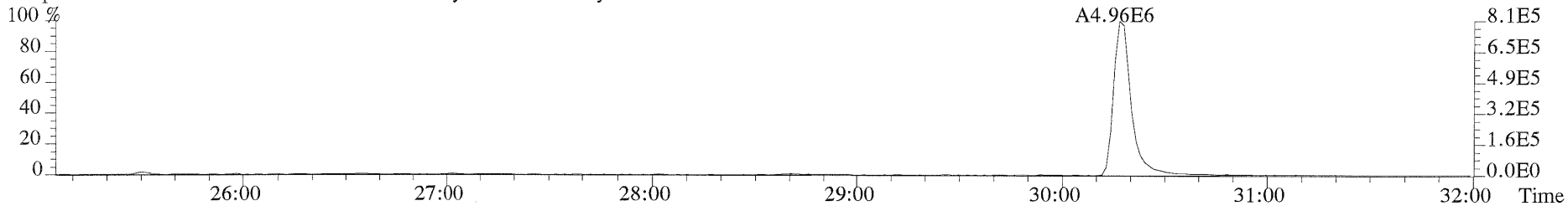
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



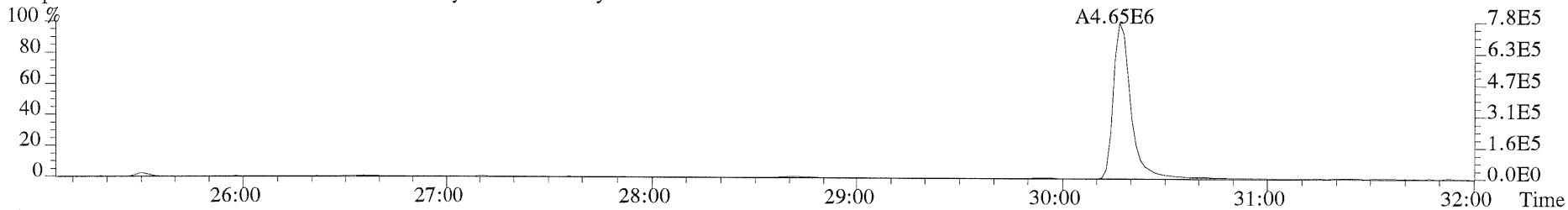
File:11AUG16Z #1-498 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



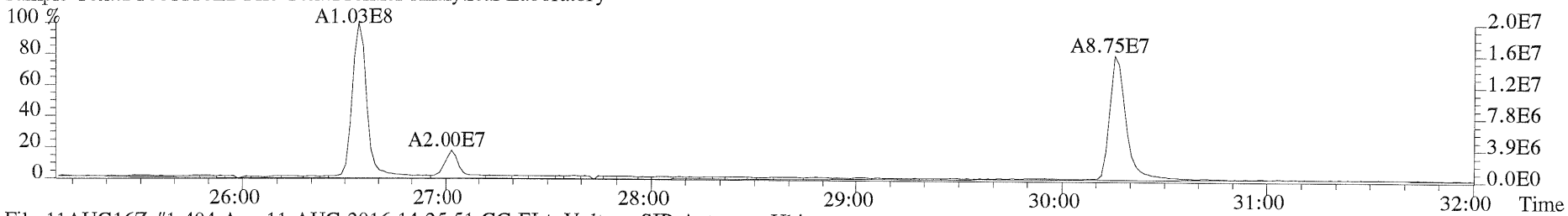
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



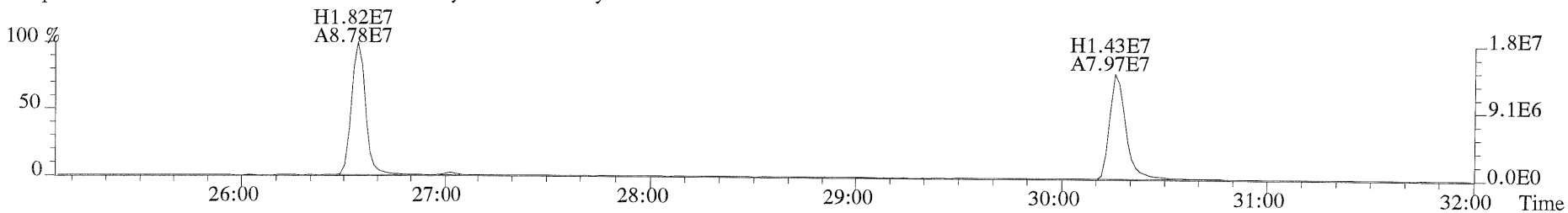
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



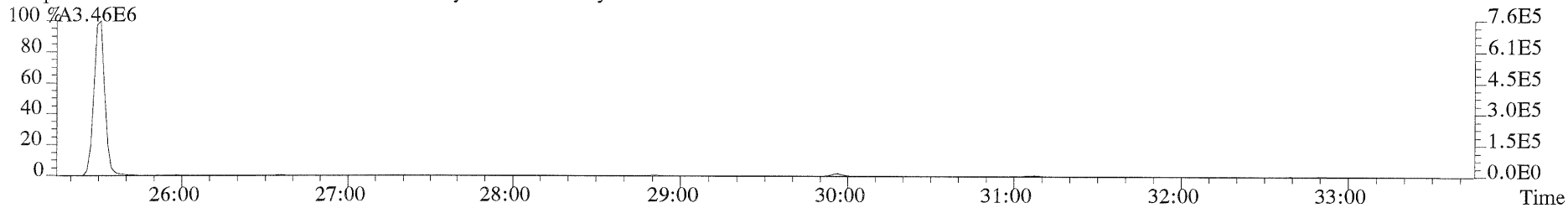
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



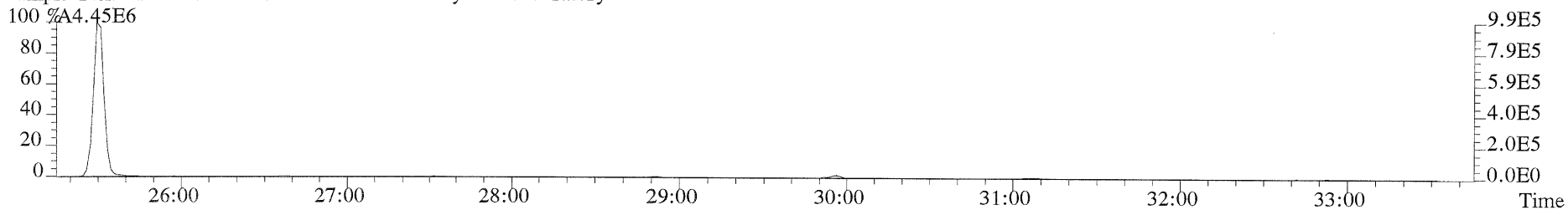
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



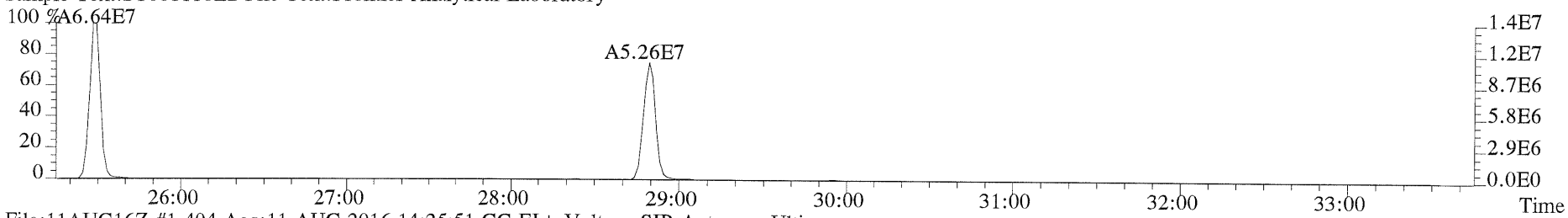
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



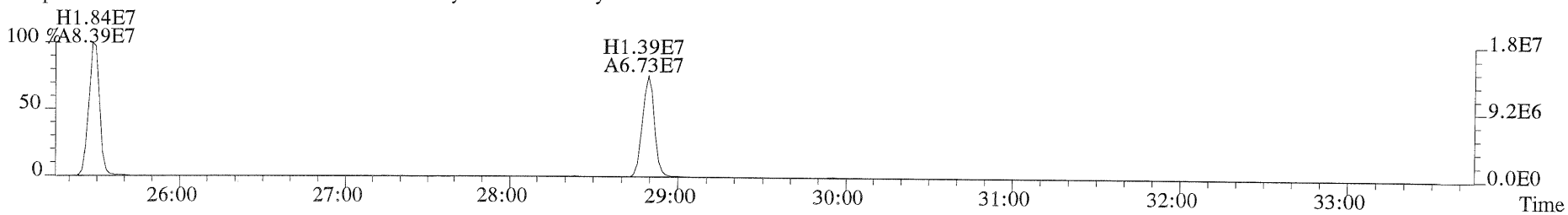
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



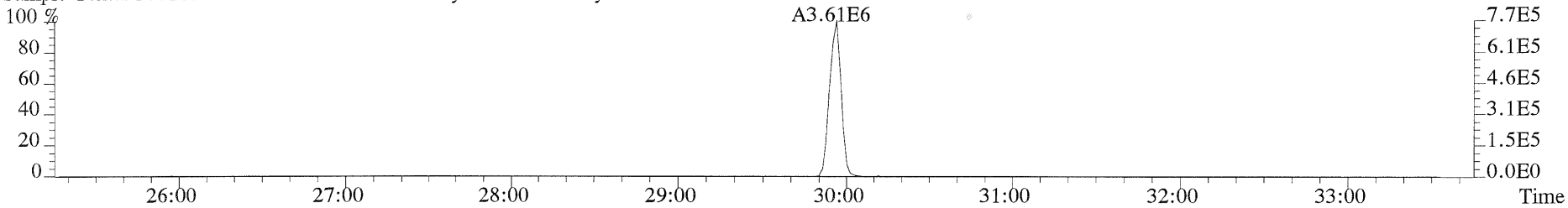
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



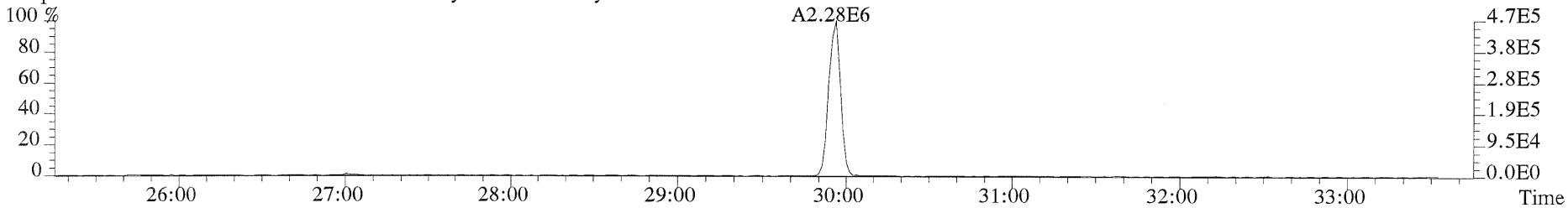
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



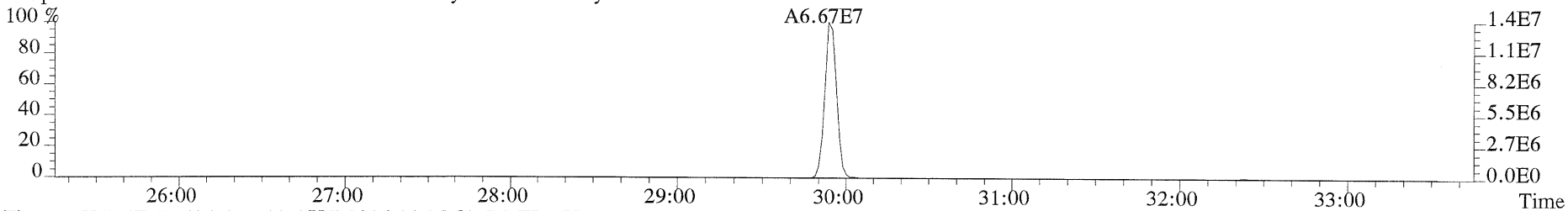
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



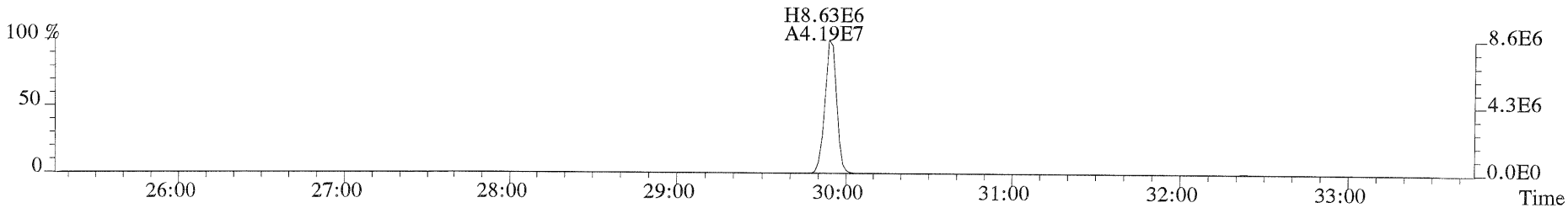
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



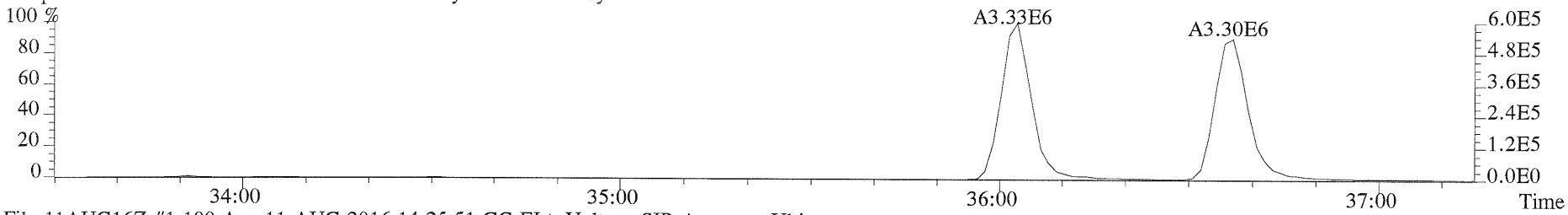
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



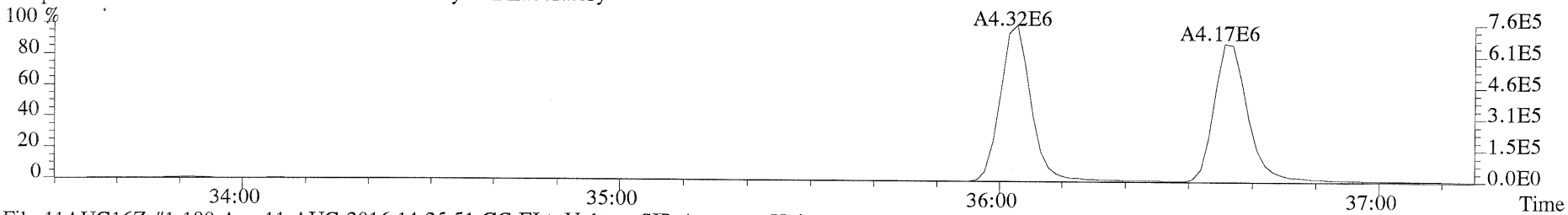
File:11AUG16Z #1-404 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



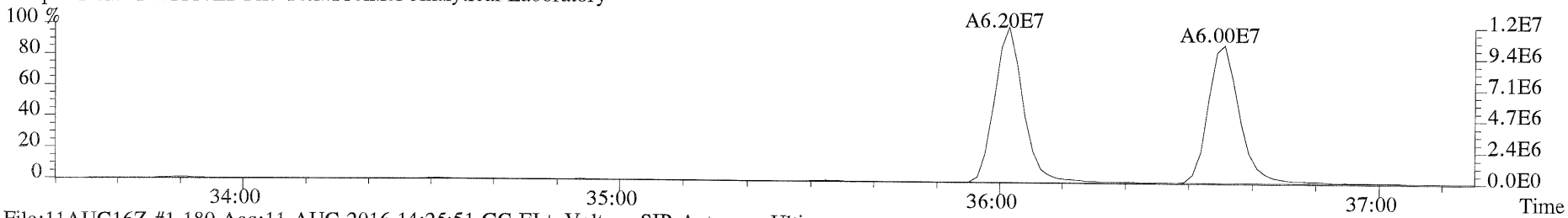
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



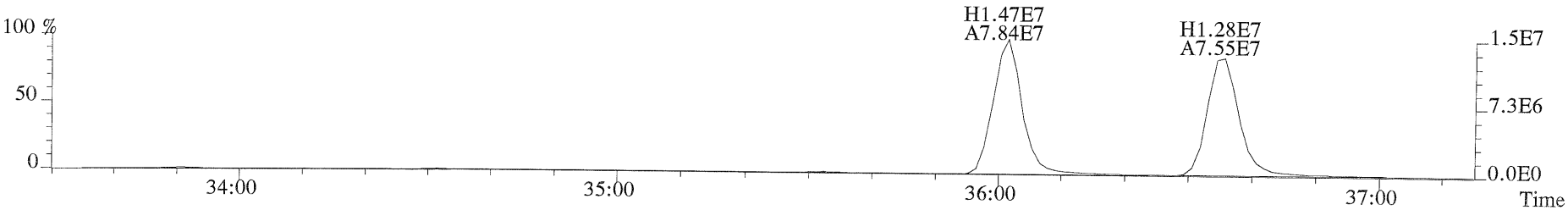
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



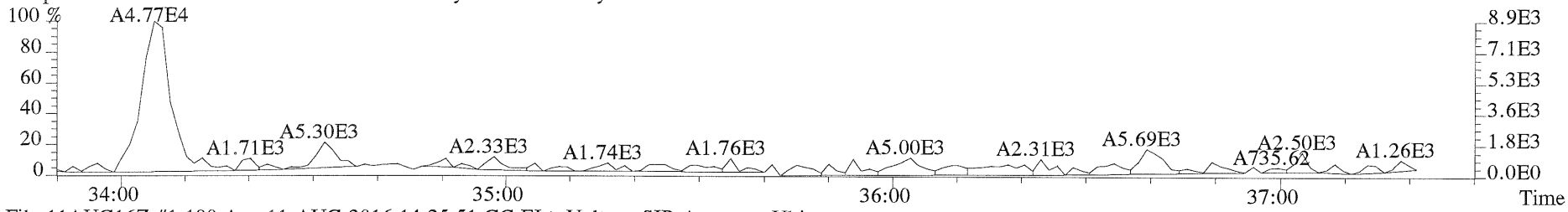
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



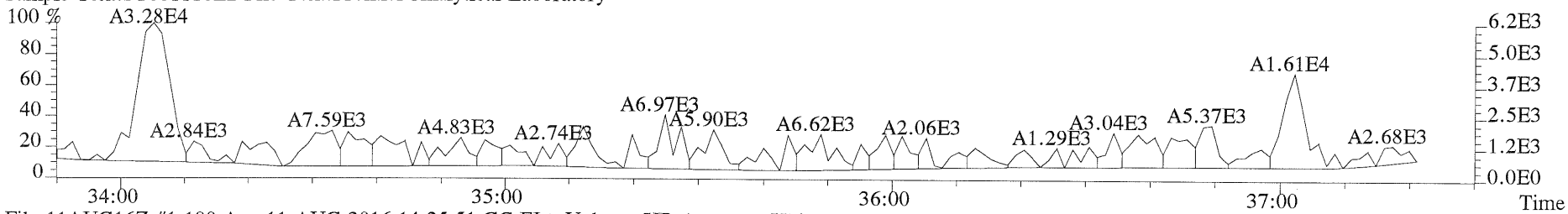
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



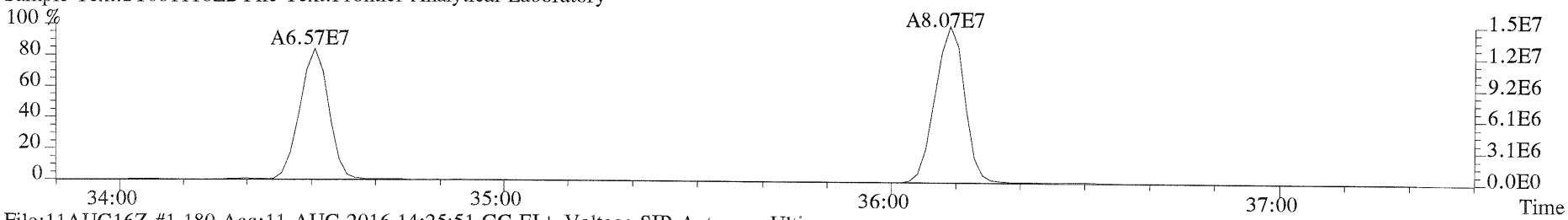
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



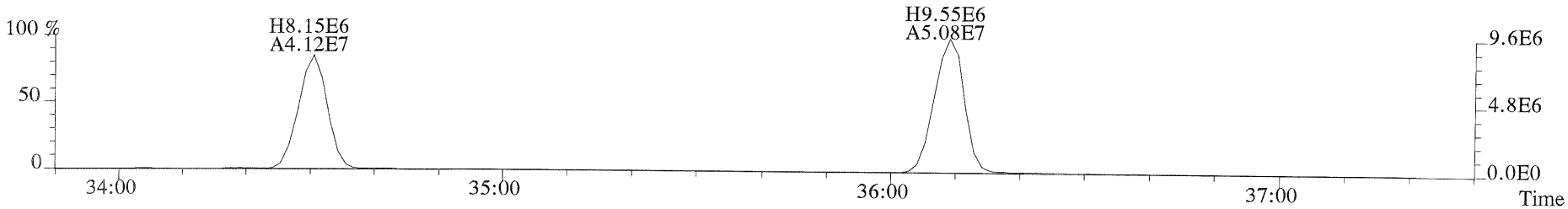
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



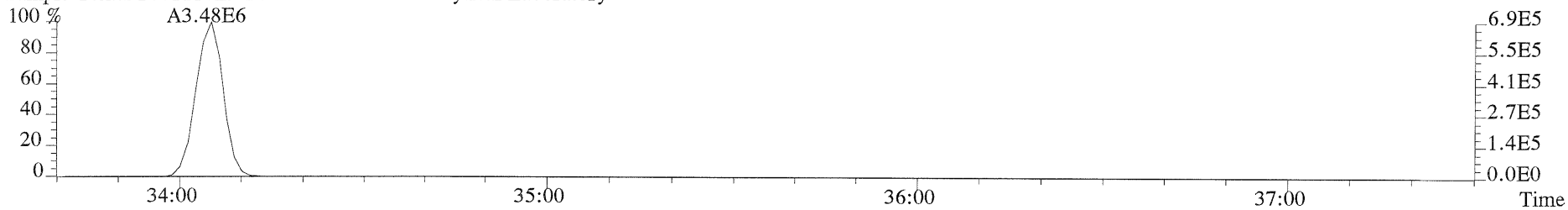
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



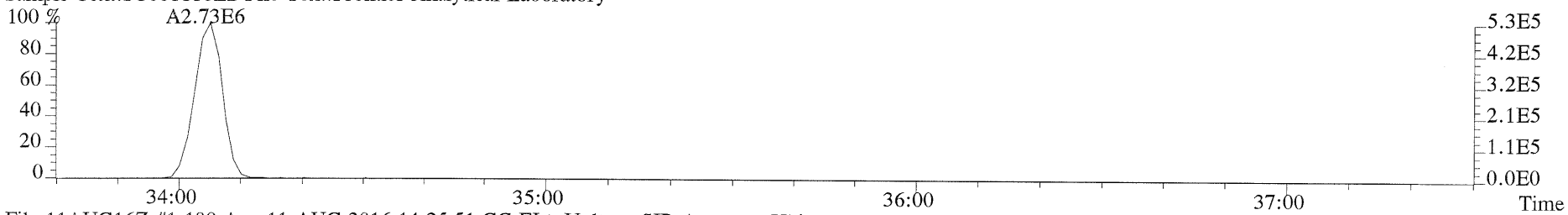
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



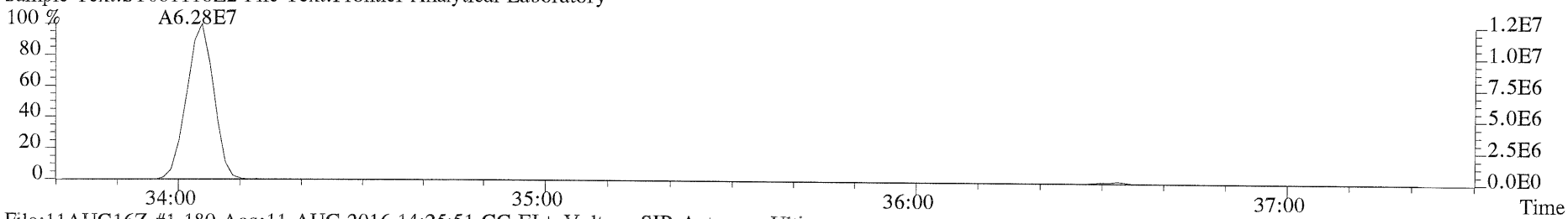
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



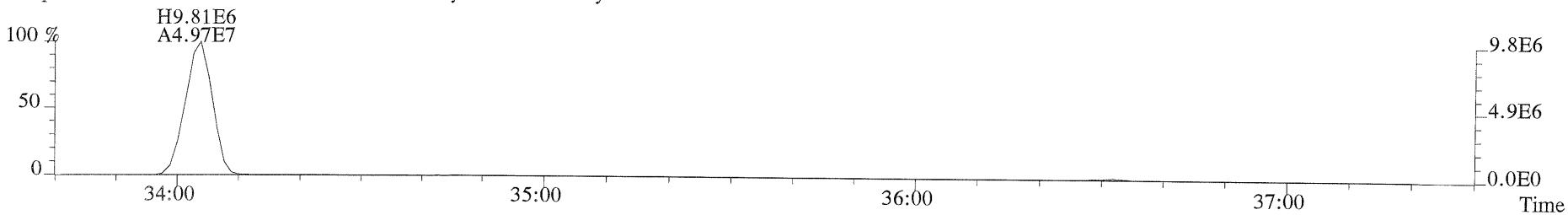
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



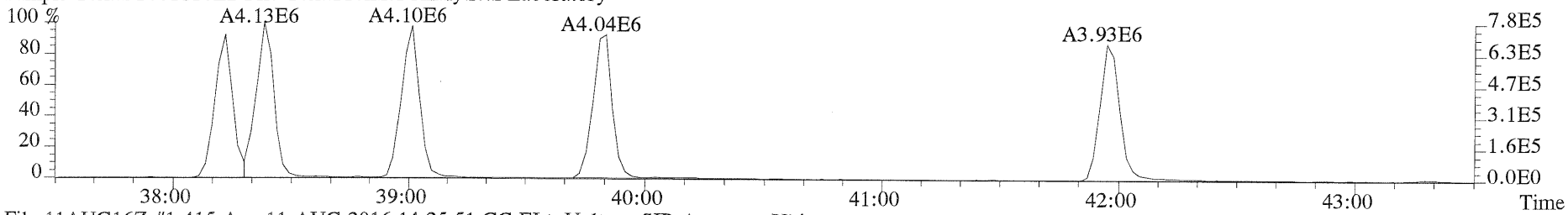
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



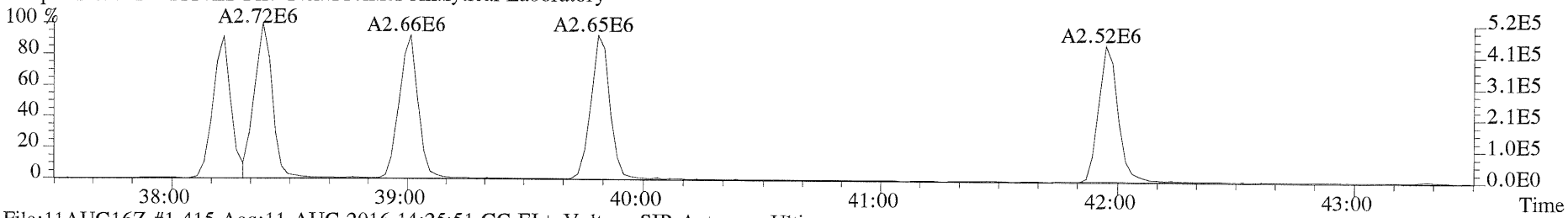
File:11AUG16Z #1-180 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



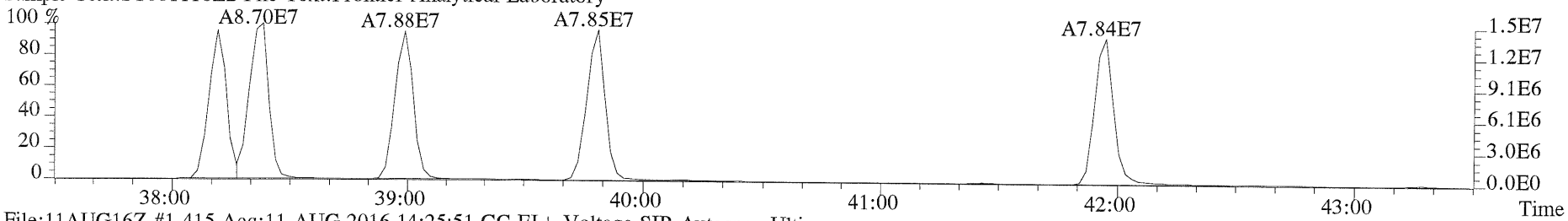
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



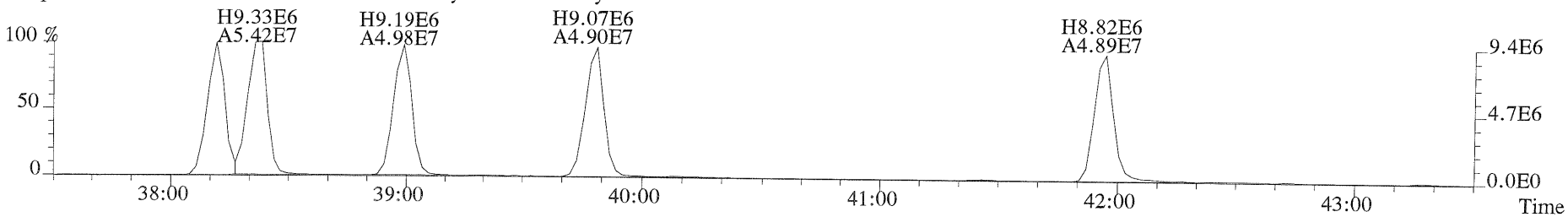
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



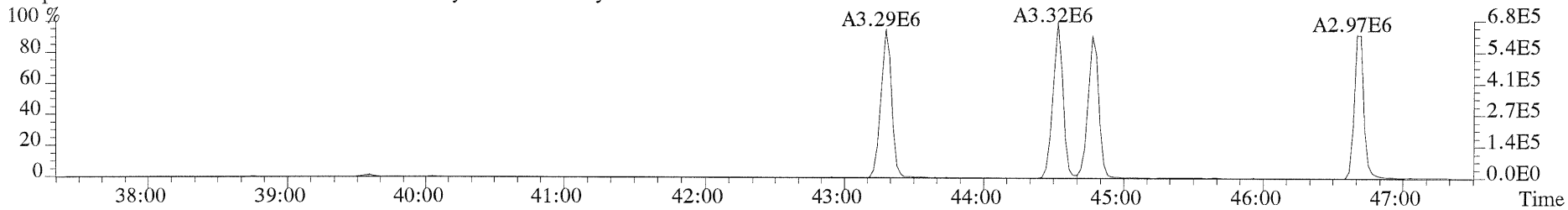
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



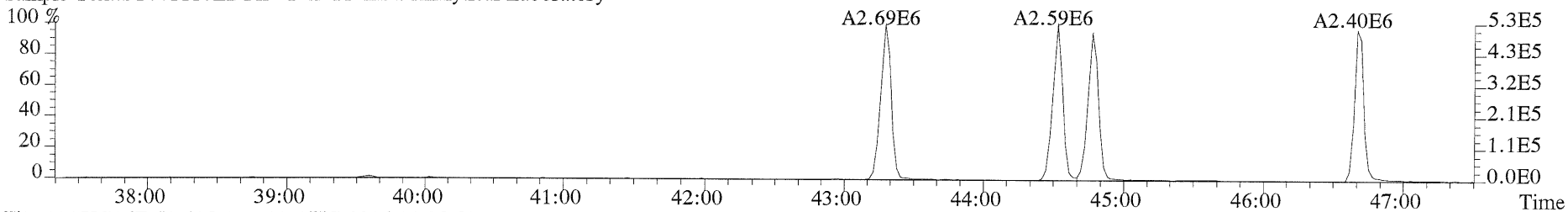
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



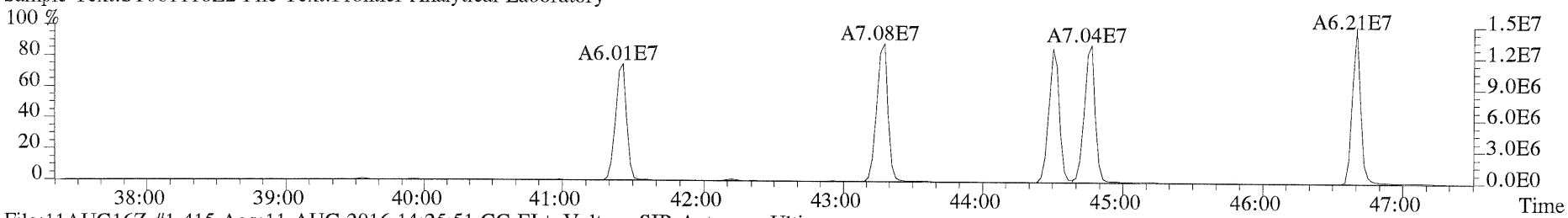
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



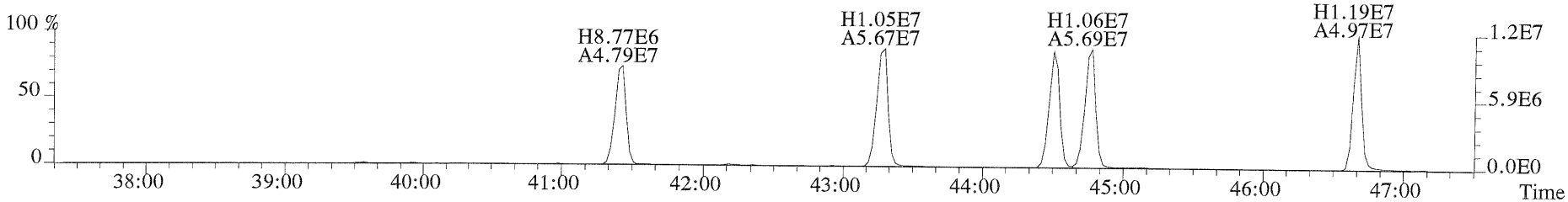
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



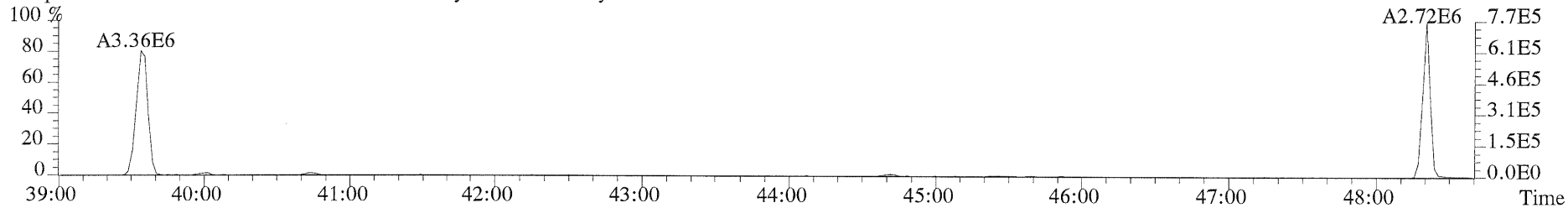
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



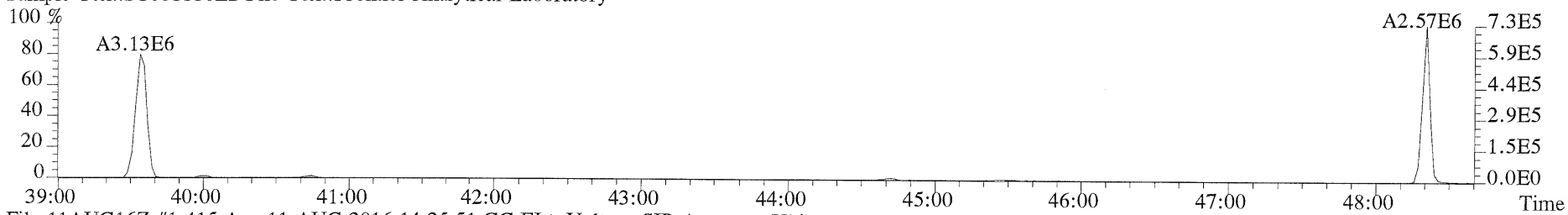
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



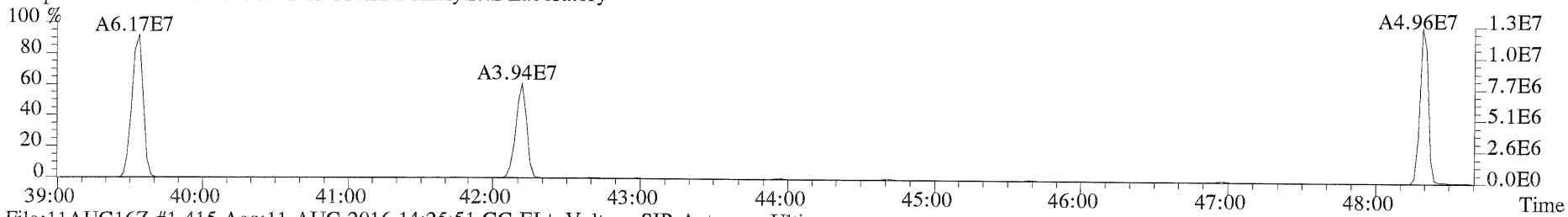
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



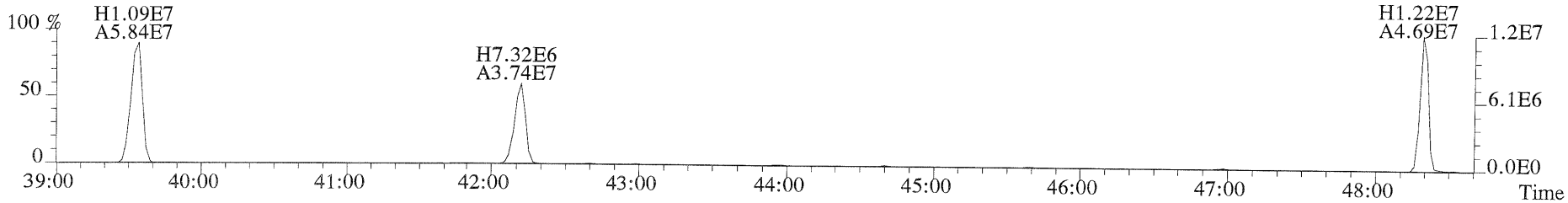
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



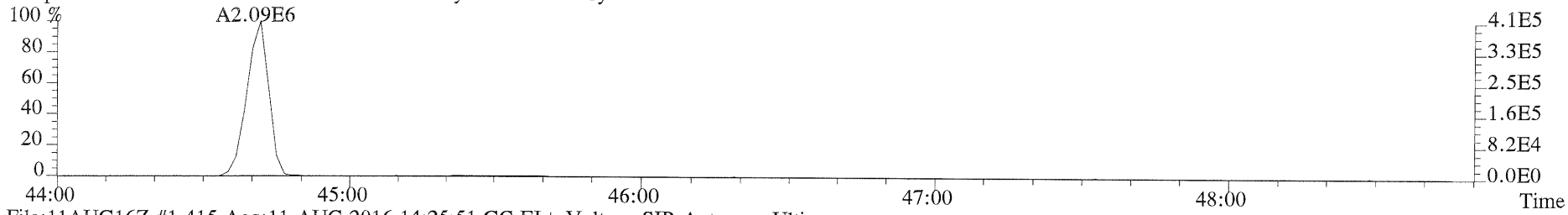
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



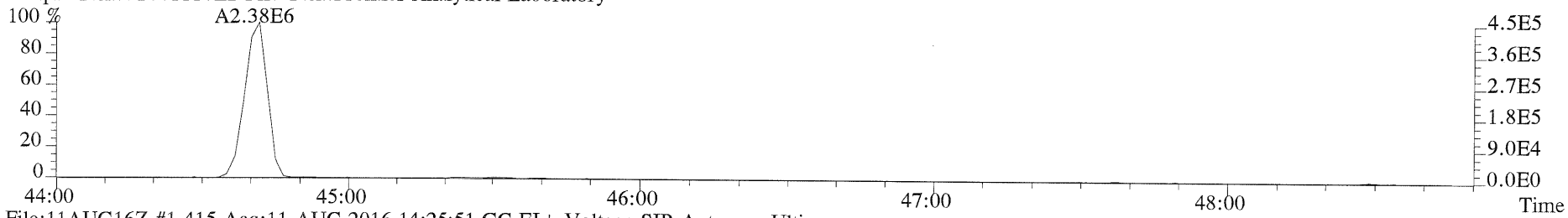
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



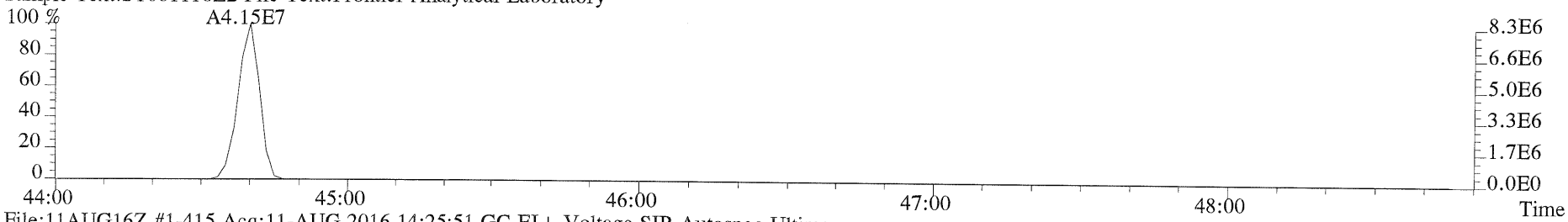
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



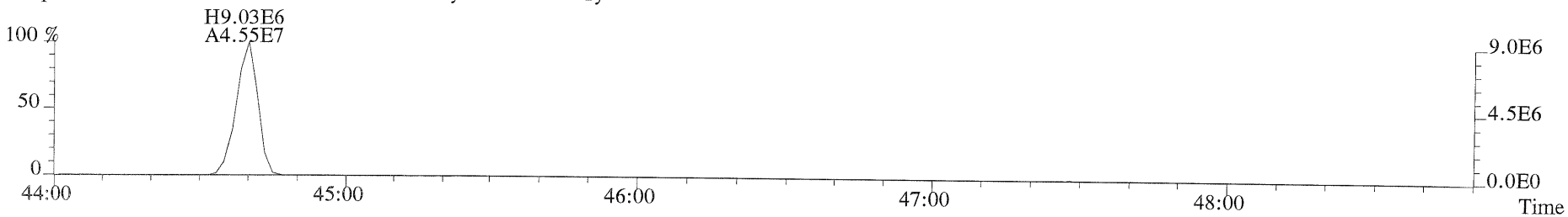
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



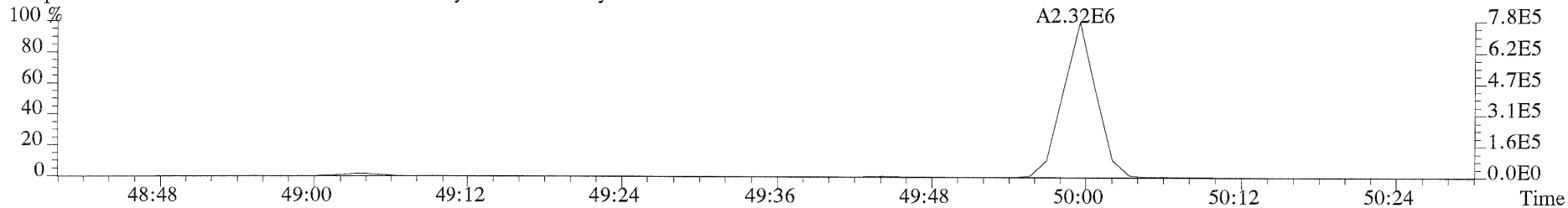
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



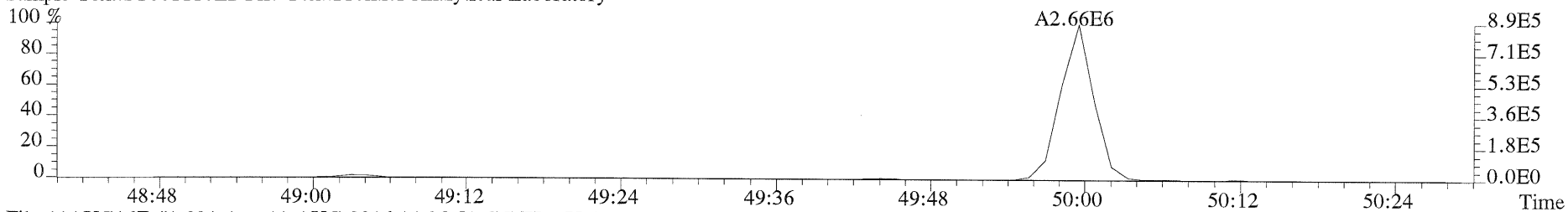
File:11AUG16Z #1-415 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



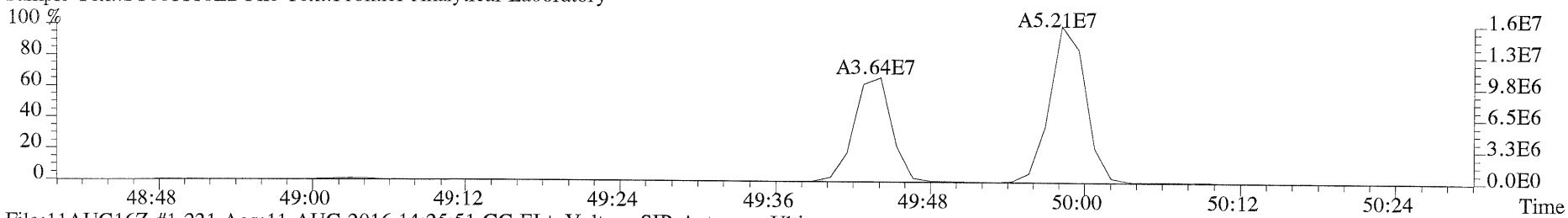
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



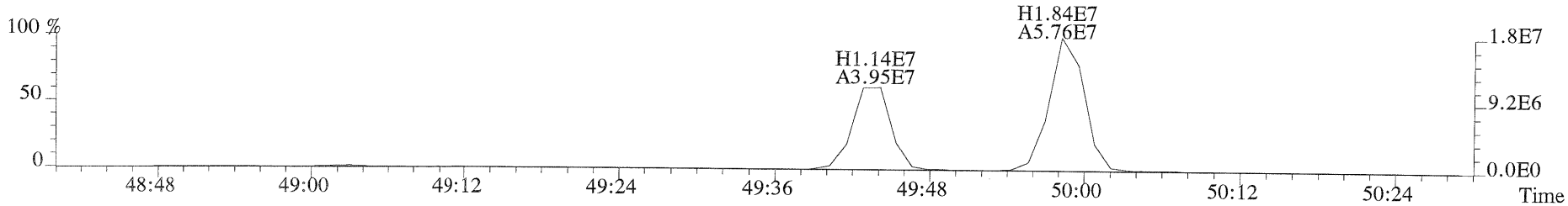
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



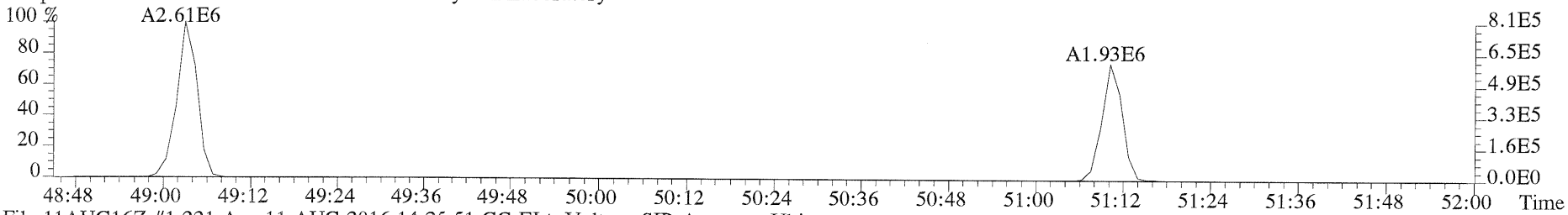
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



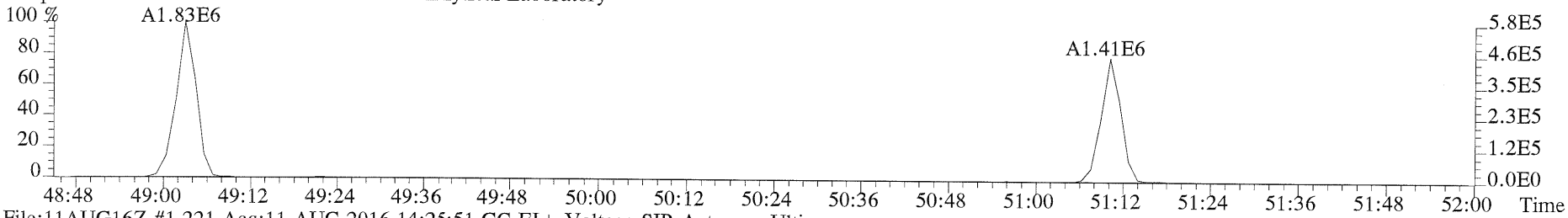
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



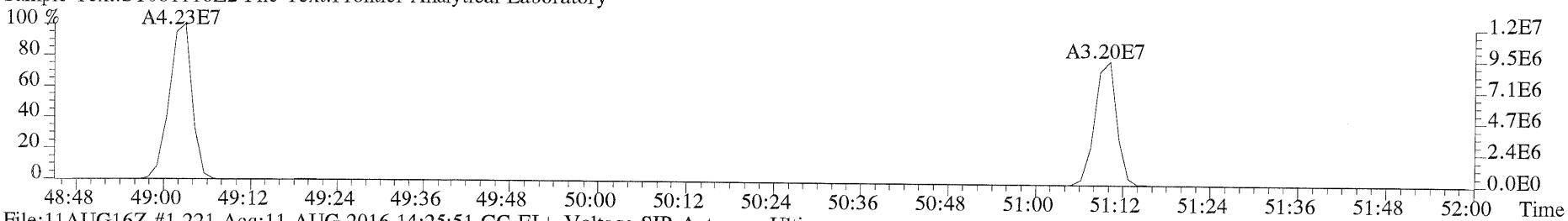
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



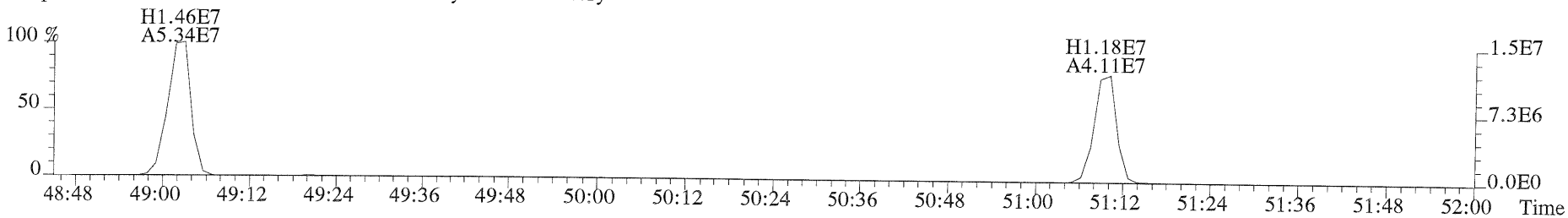
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



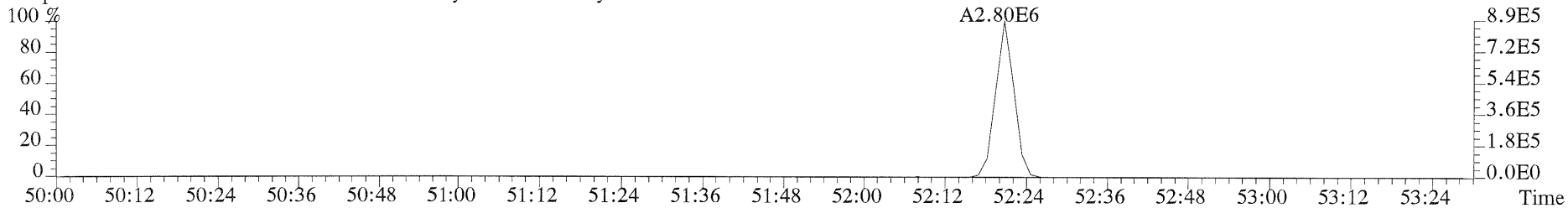
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



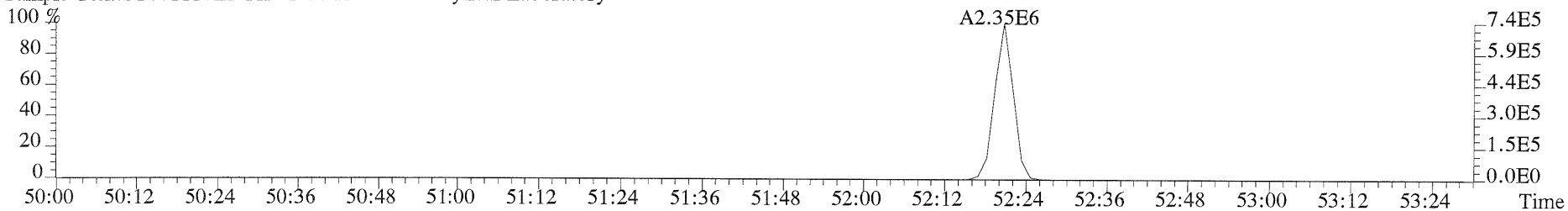
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



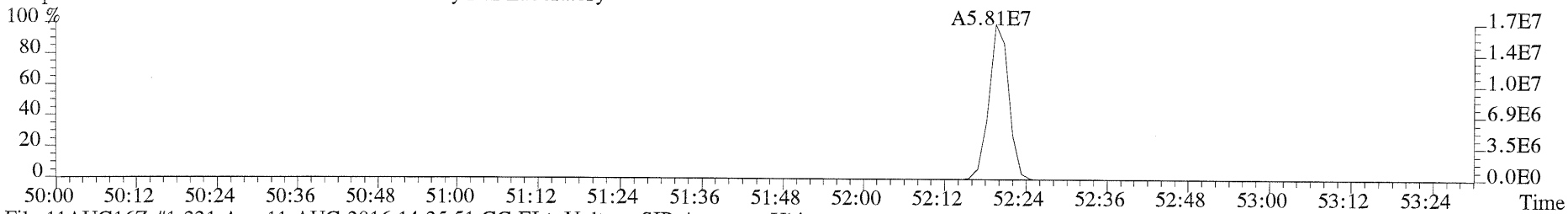
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



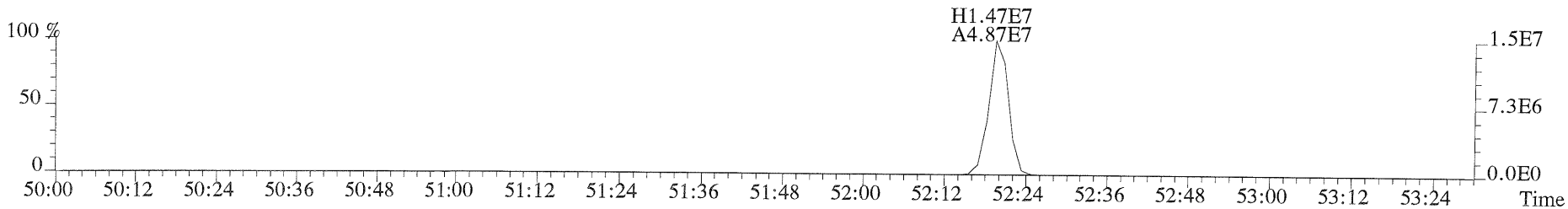
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



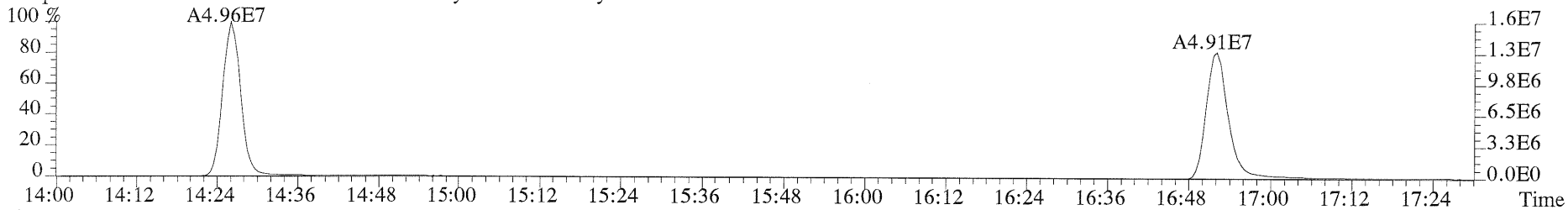
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



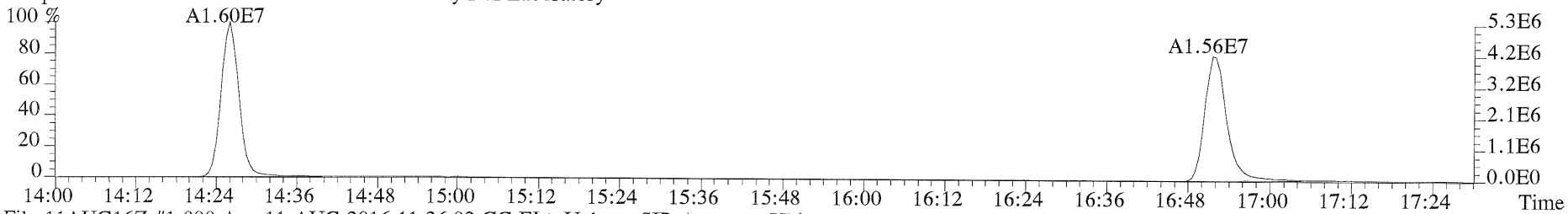
File:11AUG16Z #1-221 Acq:11-AUG-2016 14:25:51 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:4 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z2 File Text:Frontier Analytical Laboratory



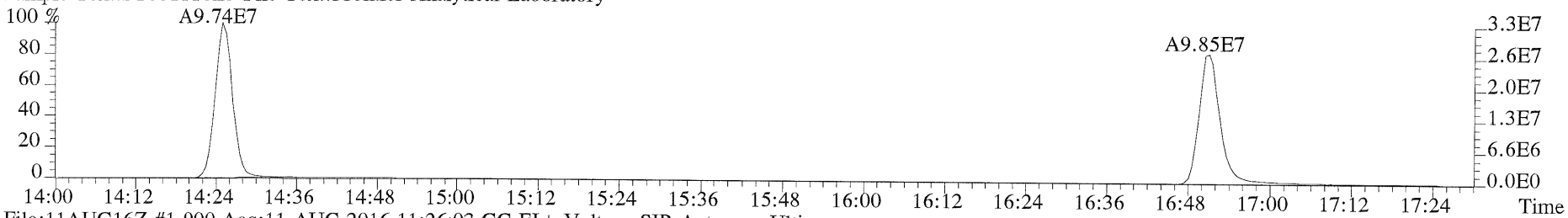
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



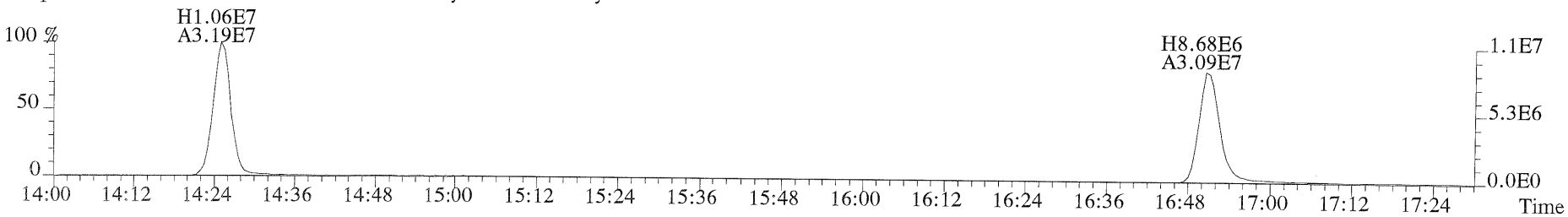
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



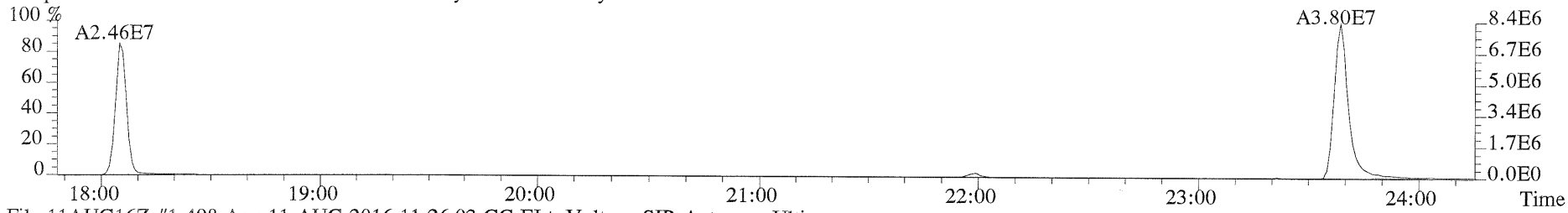
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
200.0795 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



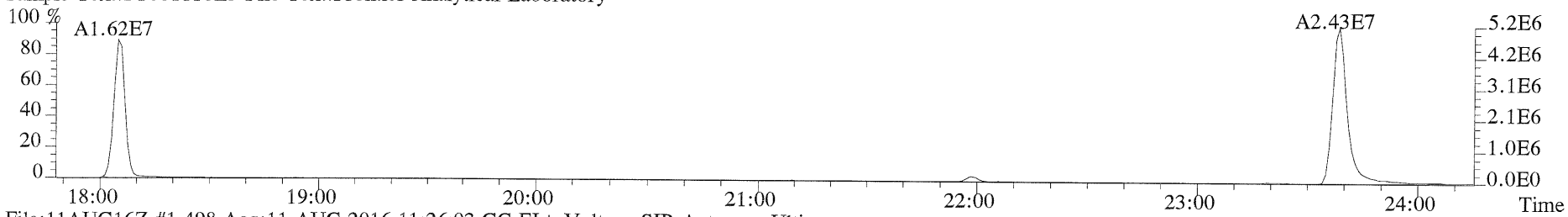
File:11AUG16Z #1-900 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



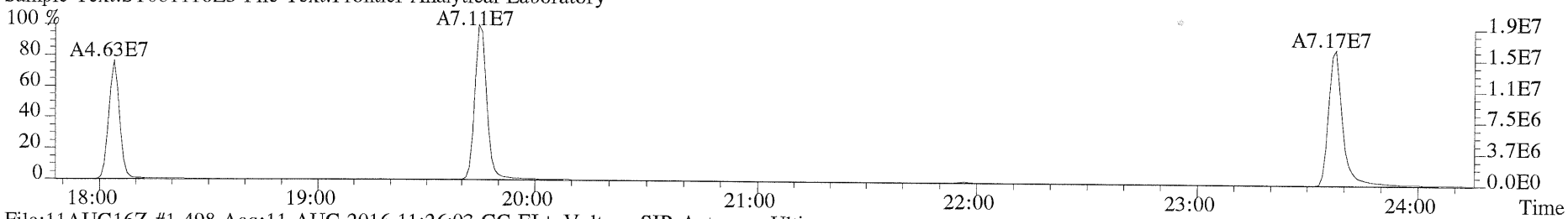
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
222.0003 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



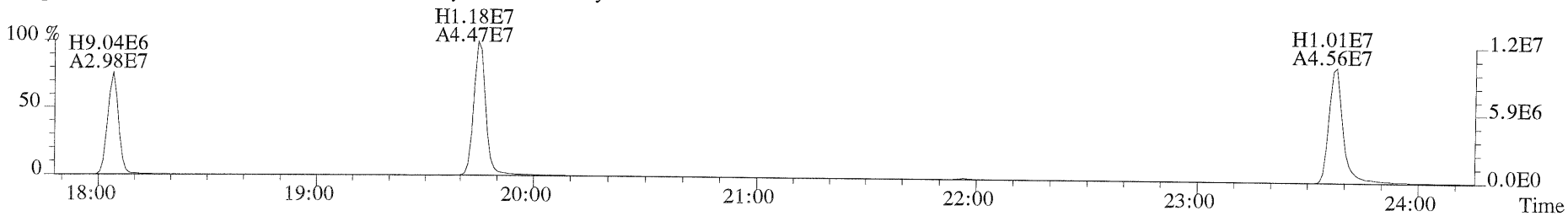
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



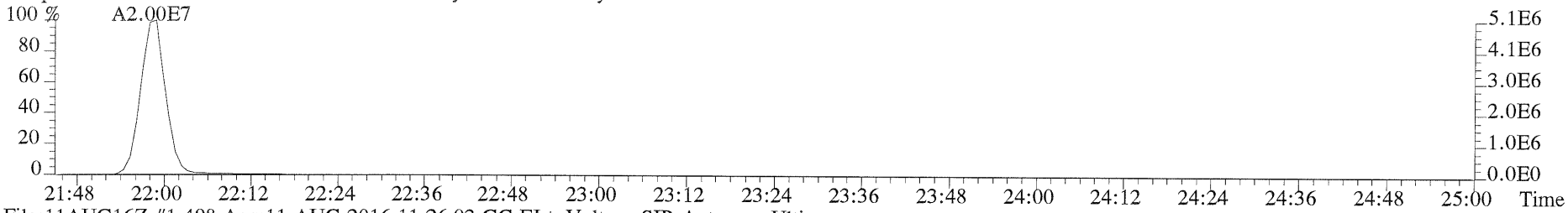
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
234.0406 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



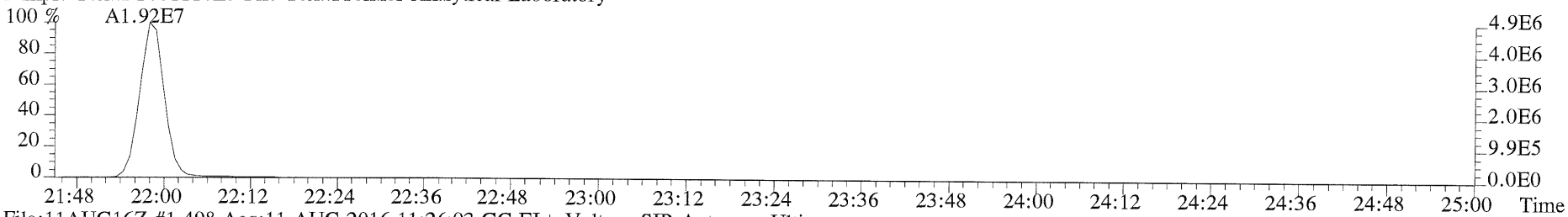
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
236.0376 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



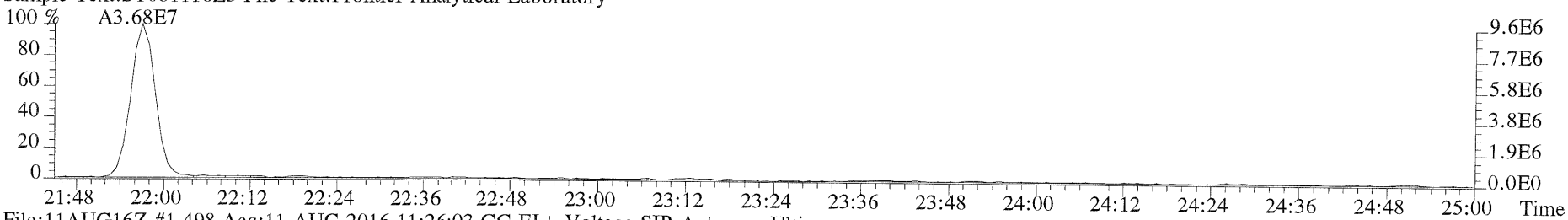
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



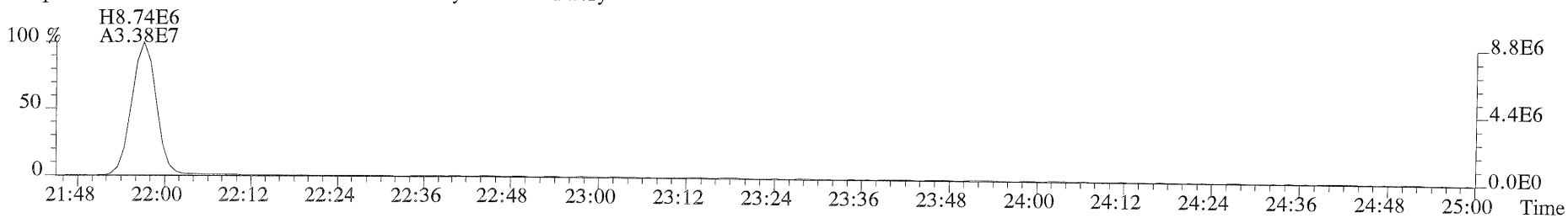
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



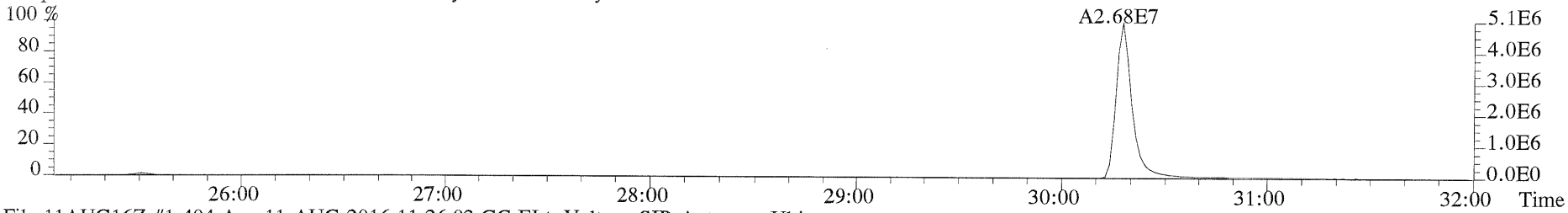
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



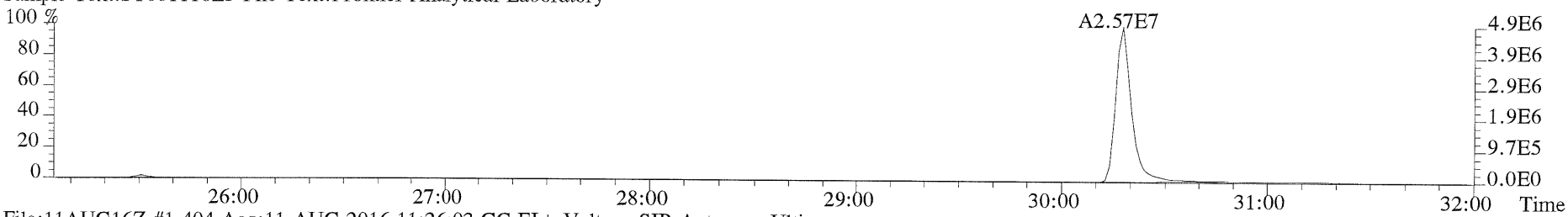
File:11AUG16Z #1-498 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



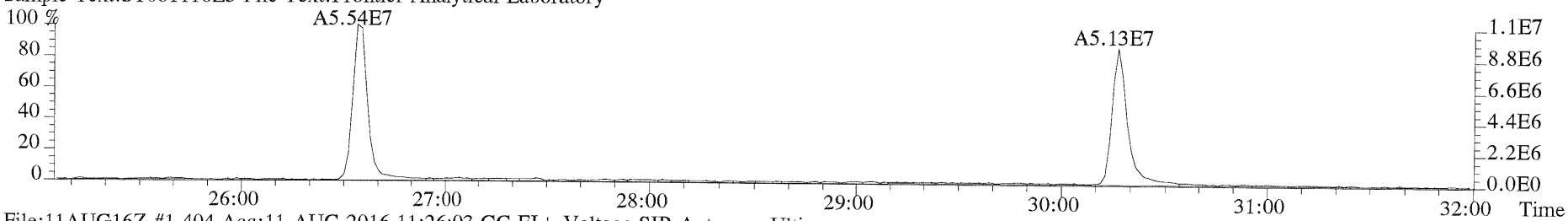
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



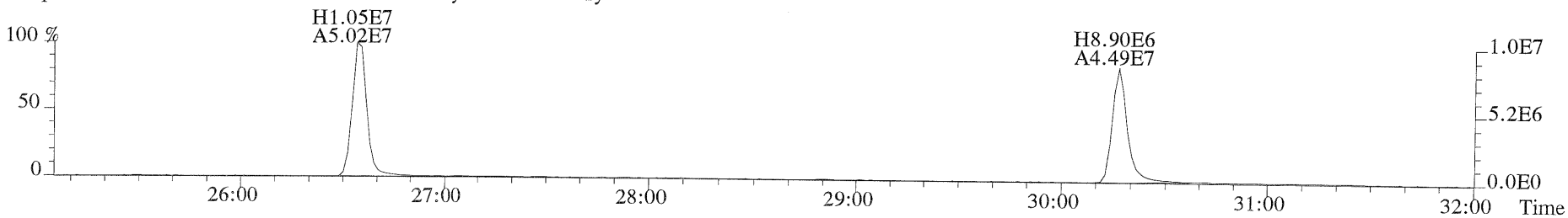
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



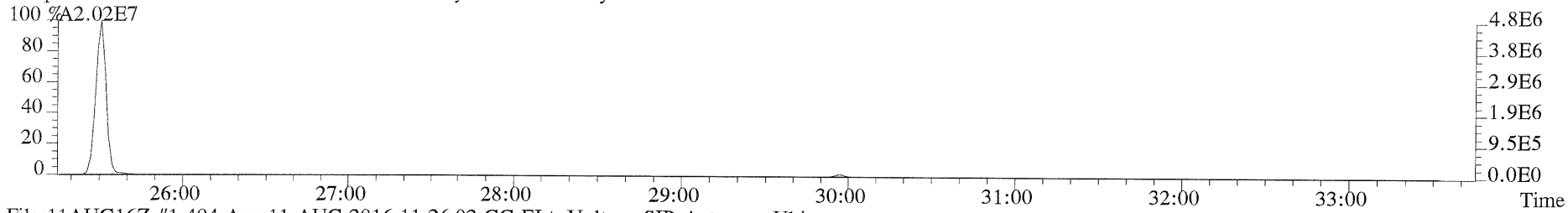
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



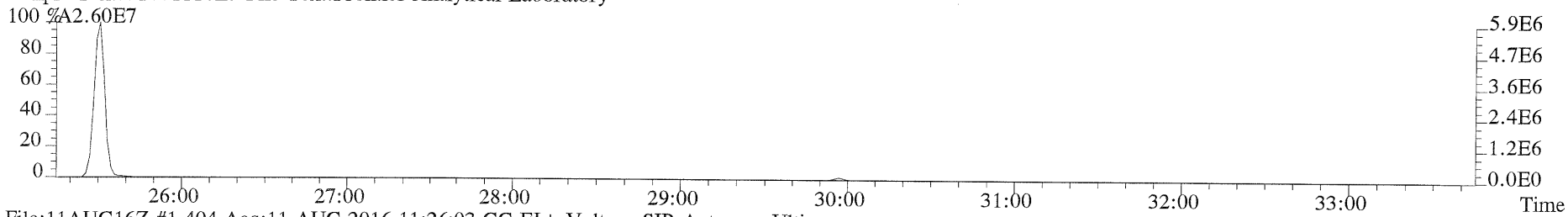
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



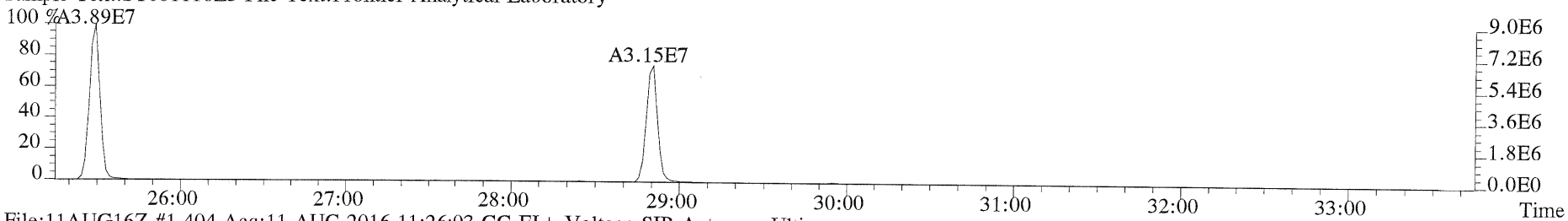
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



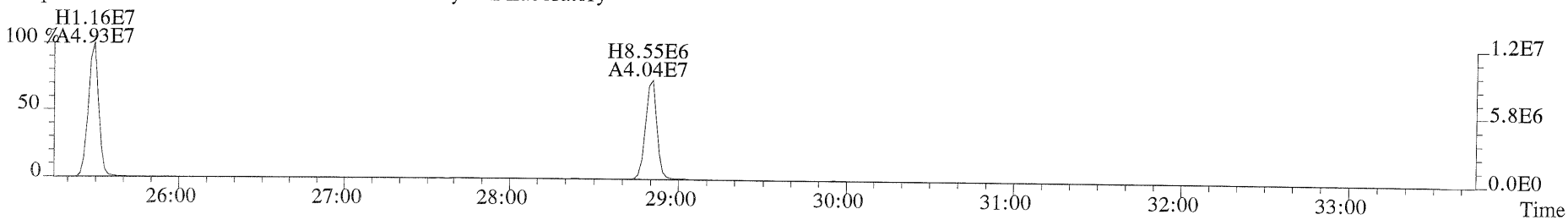
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



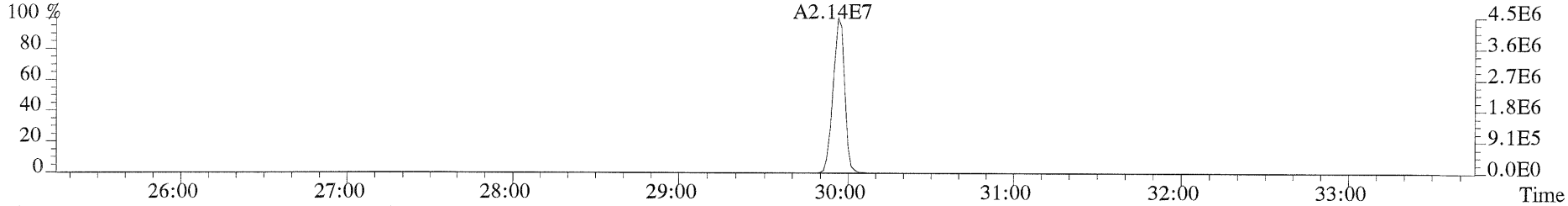
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



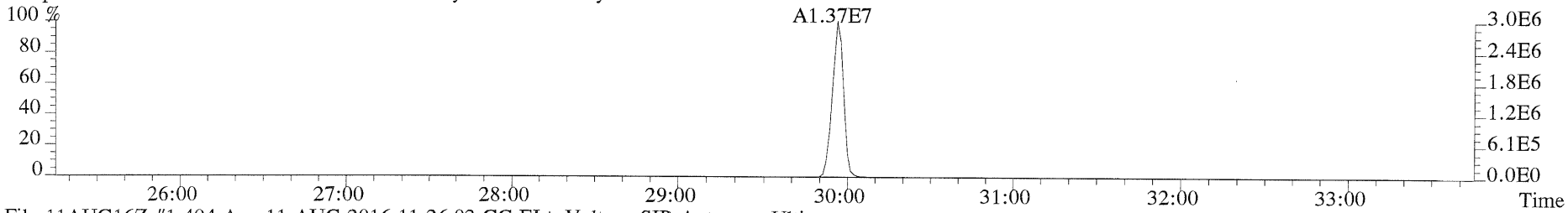
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



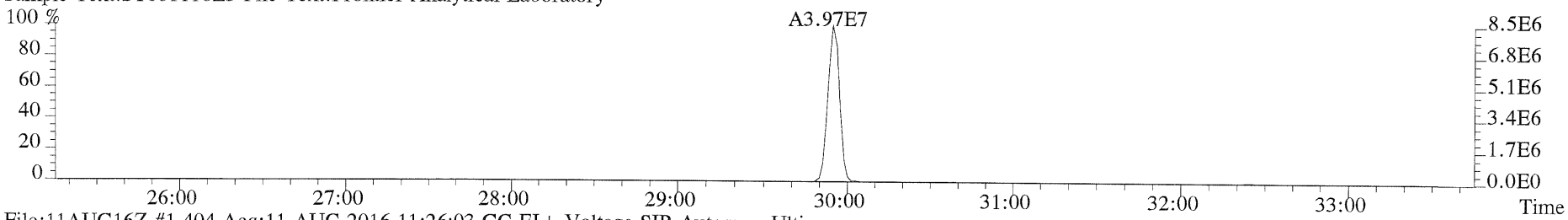
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



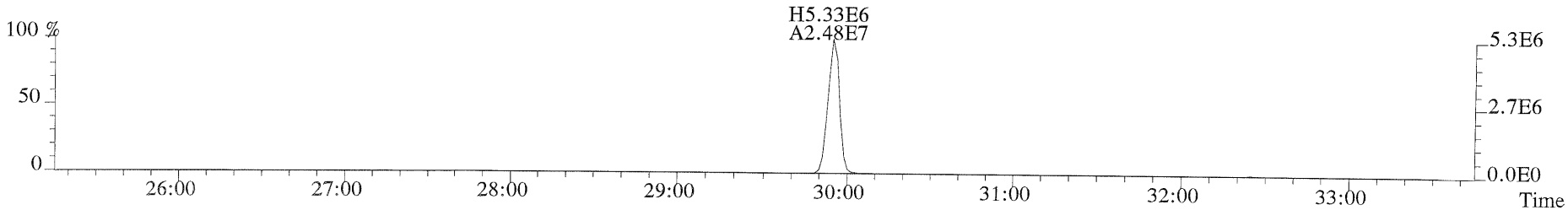
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



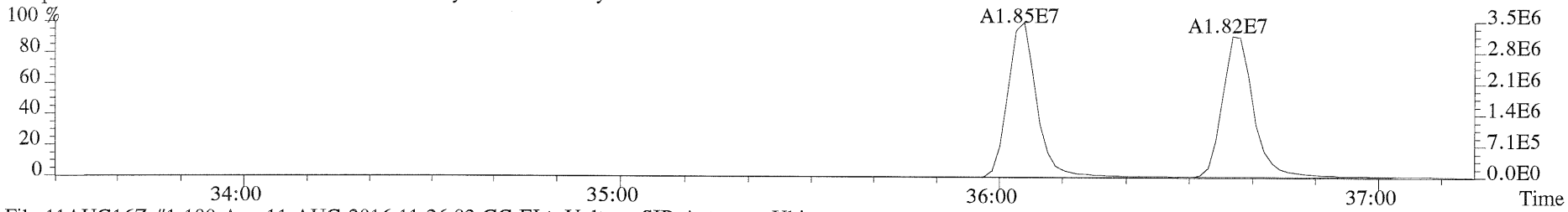
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



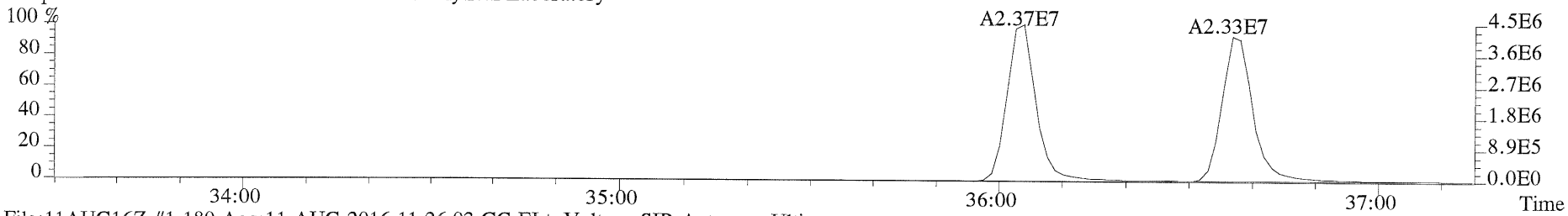
File:11AUG16Z #1-404 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



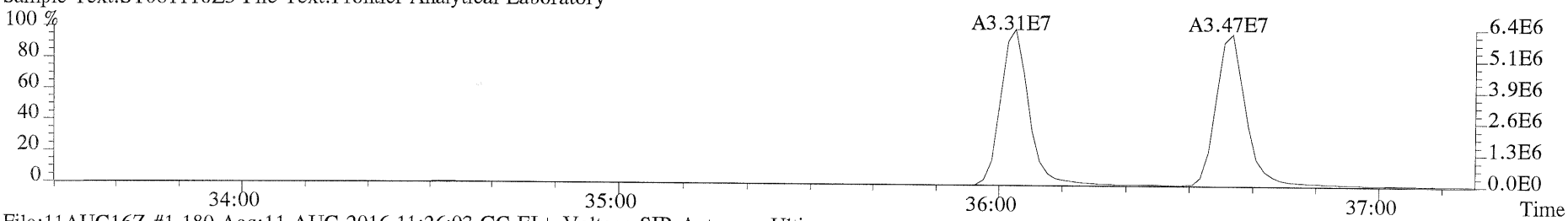
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



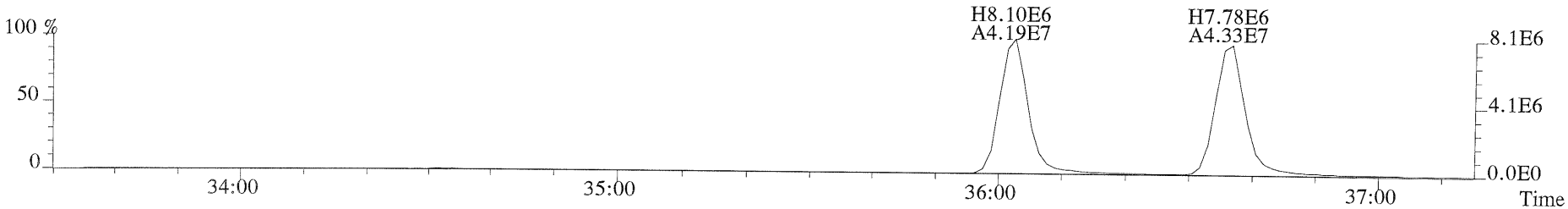
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



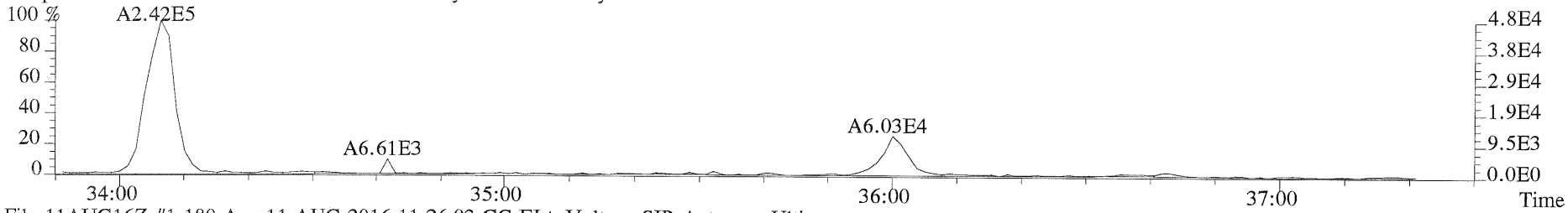
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



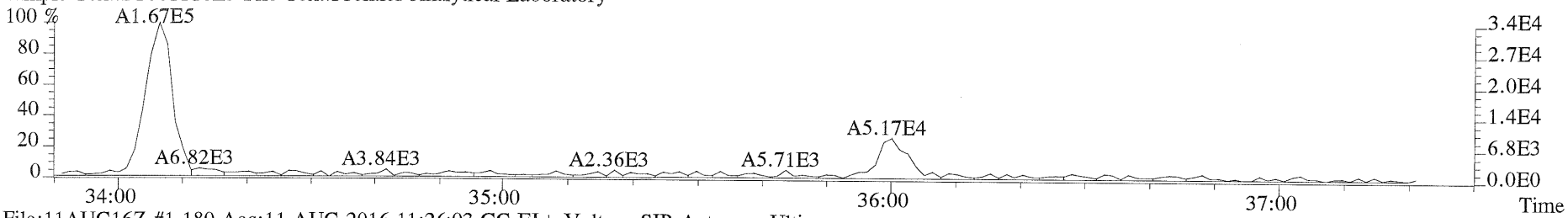
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



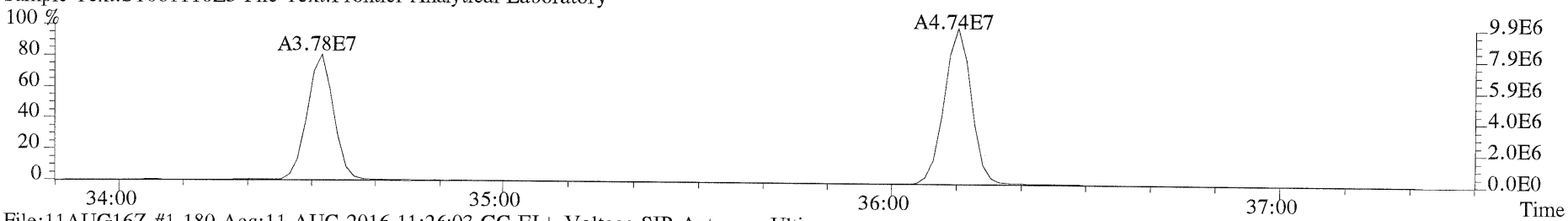
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



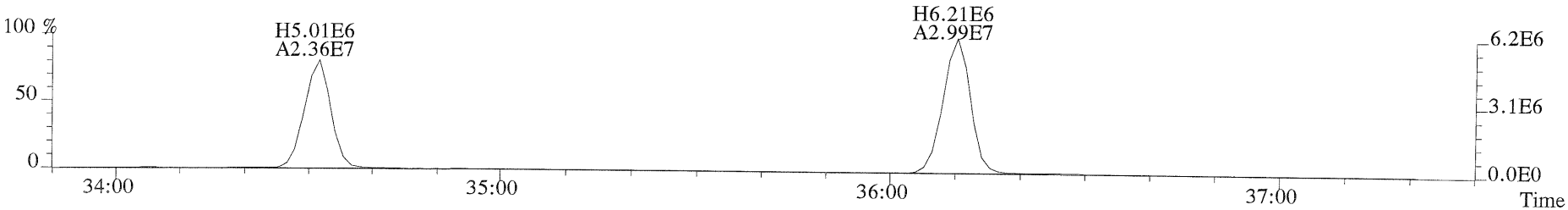
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



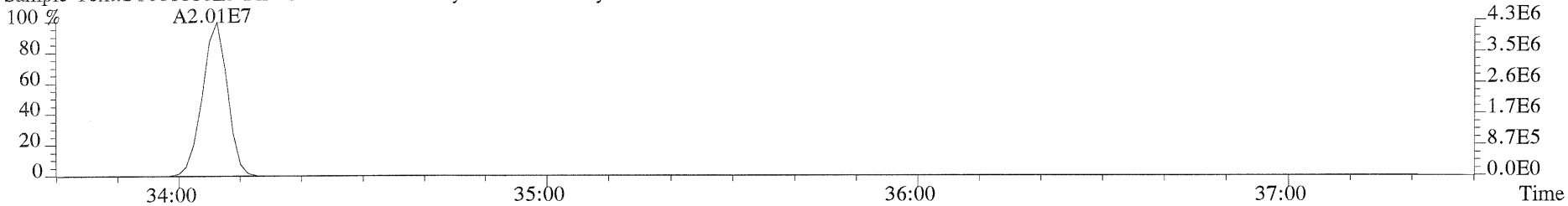
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



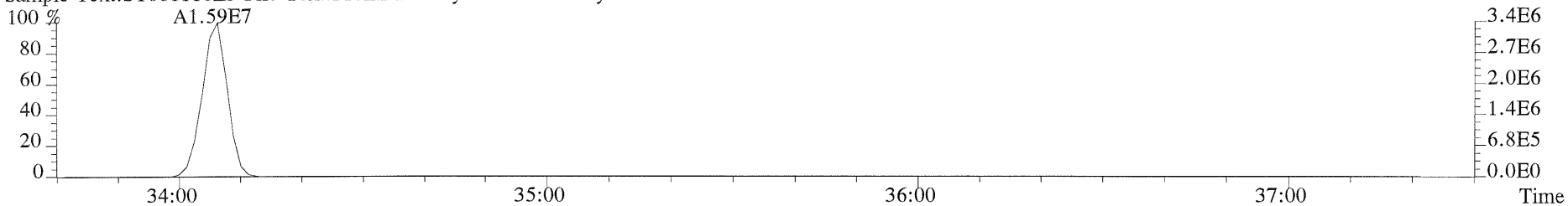
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



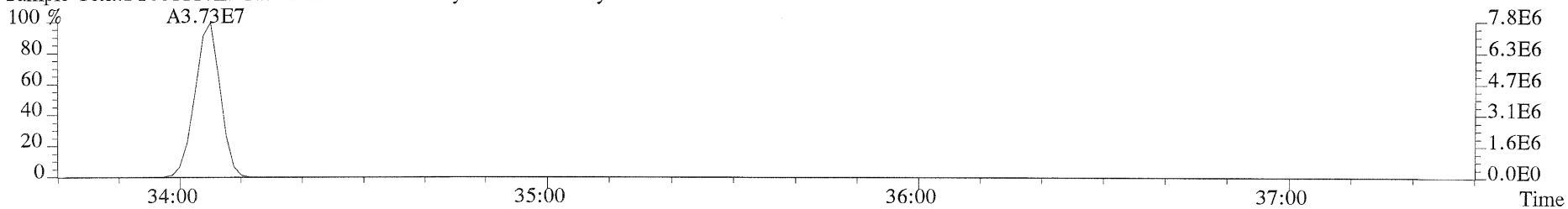
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



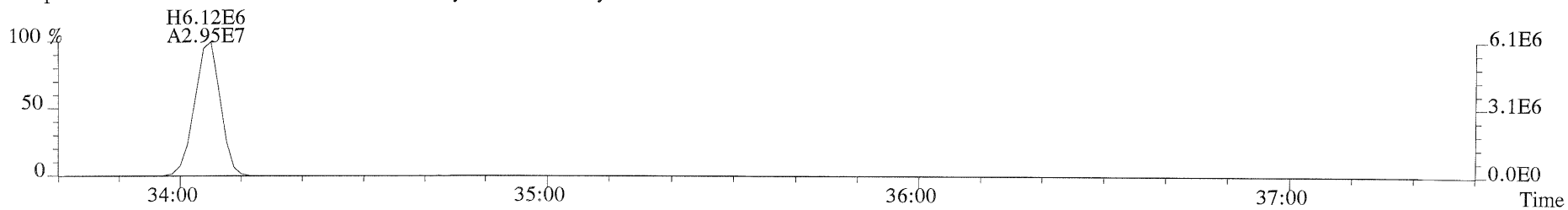
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



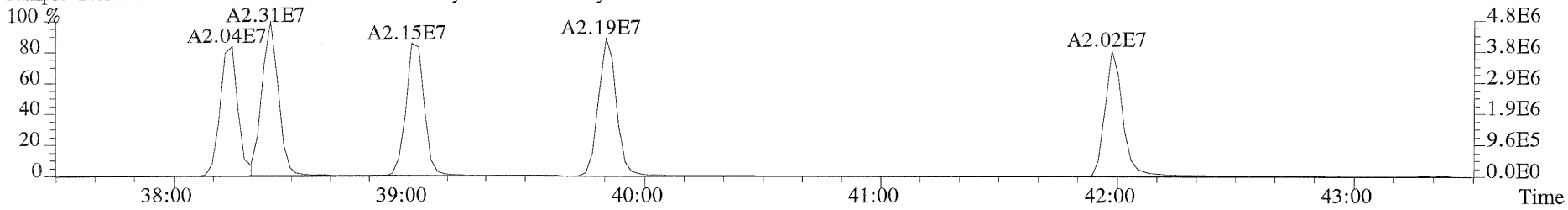
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



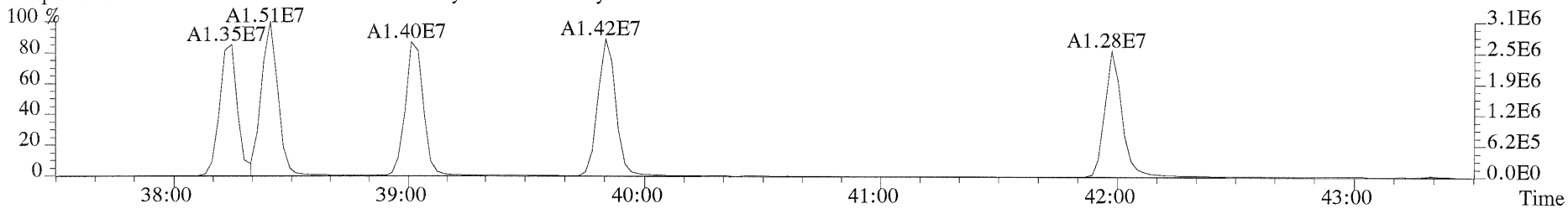
File:11AUG16Z #1-180 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



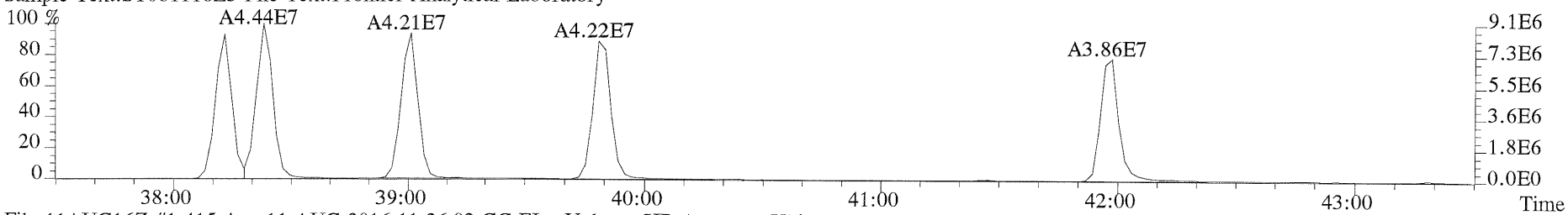
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



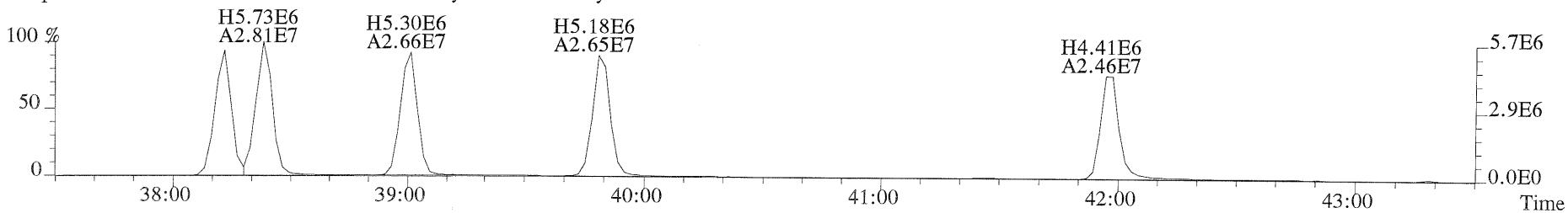
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



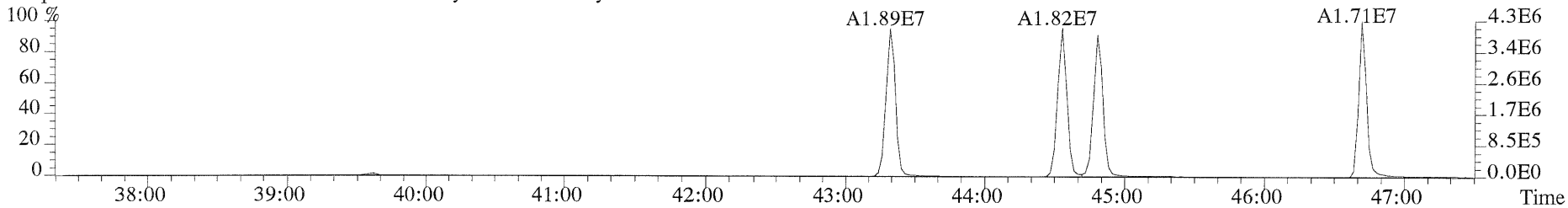
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



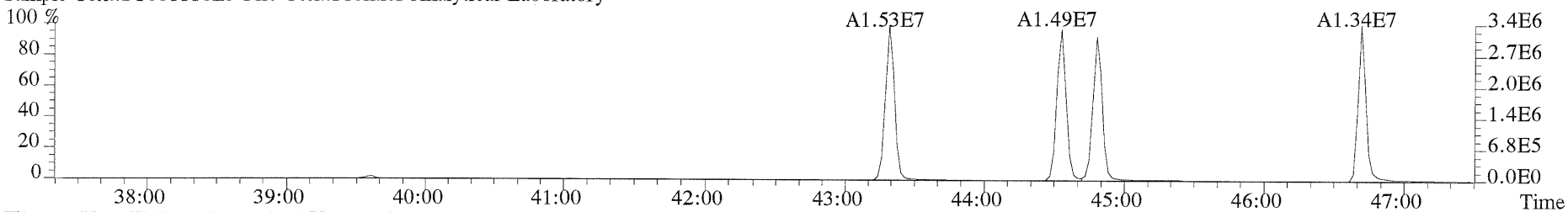
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



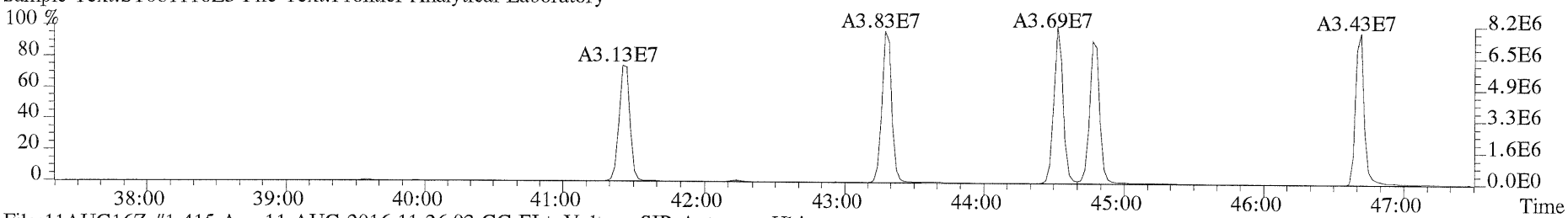
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



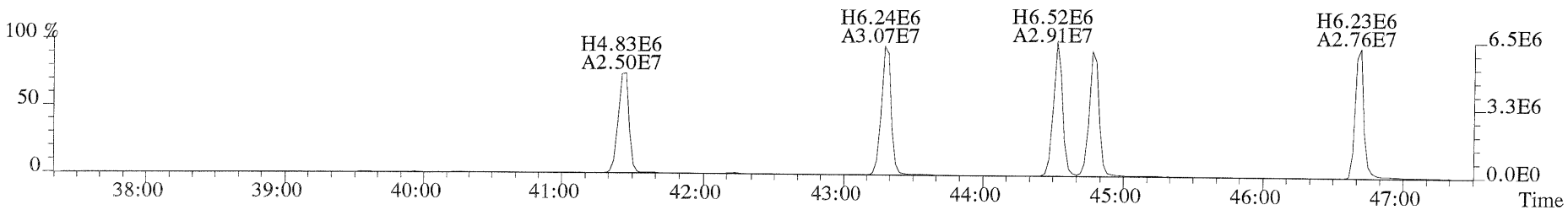
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



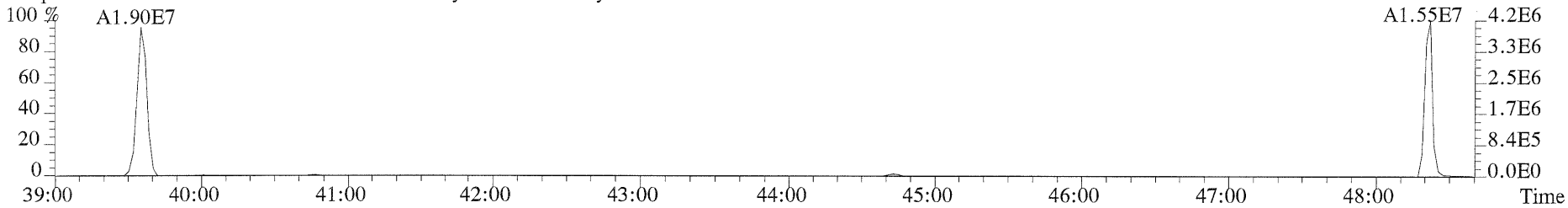
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



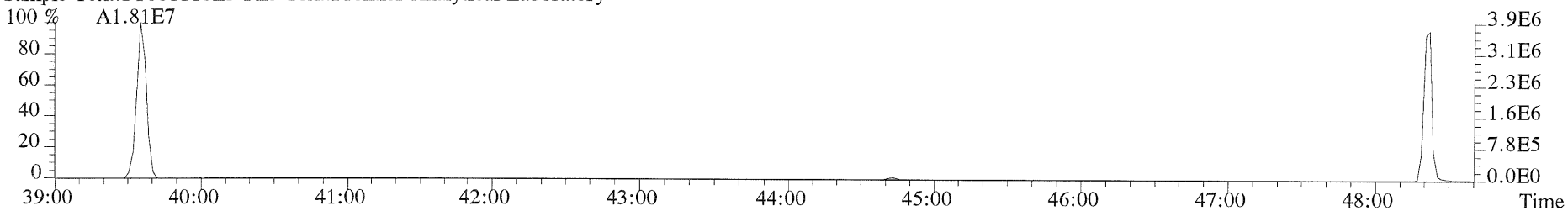
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



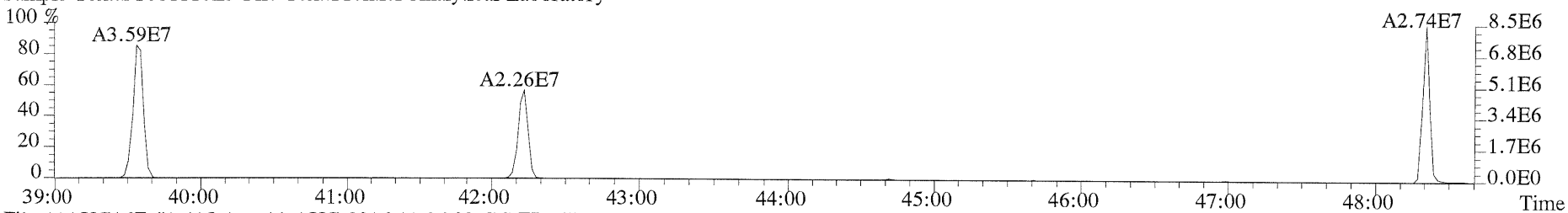
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



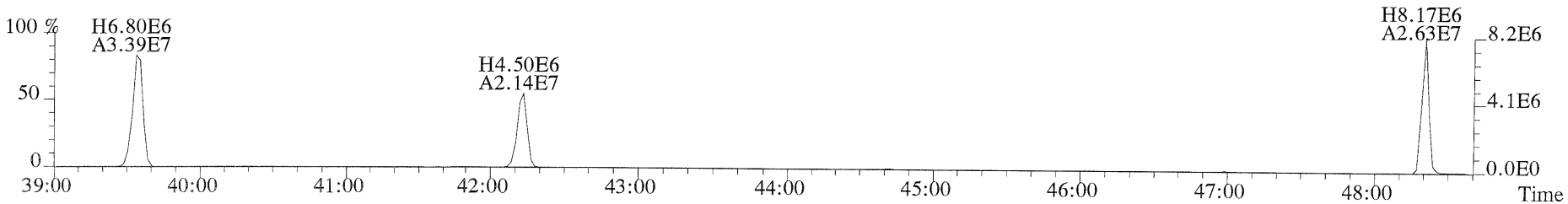
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



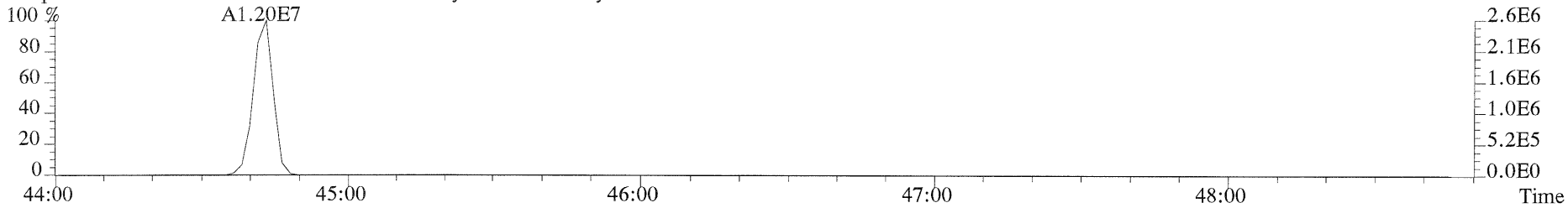
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



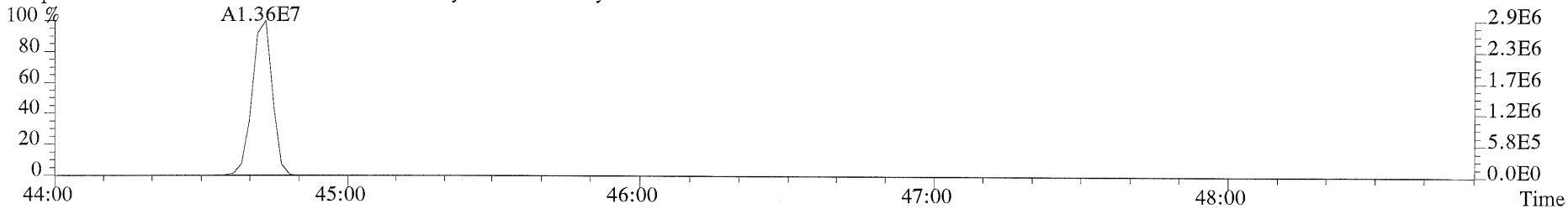
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



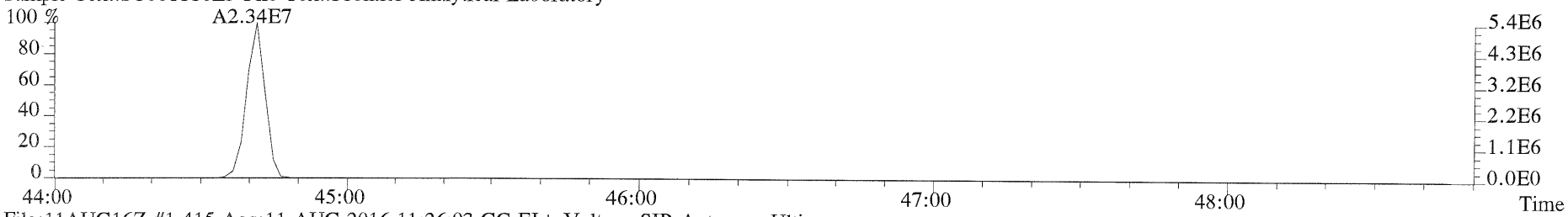
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



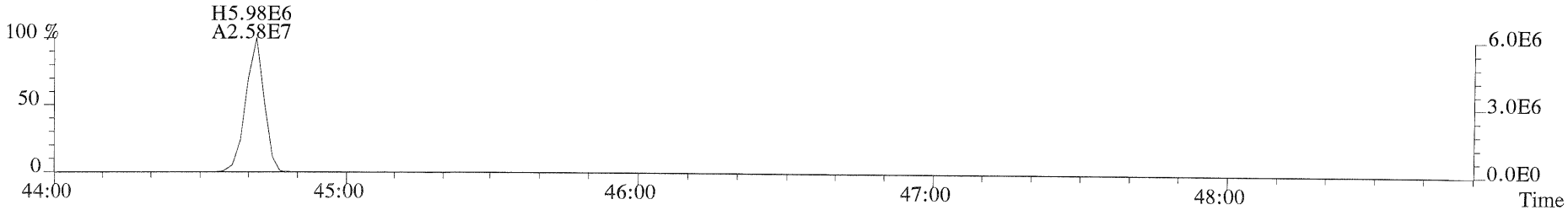
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



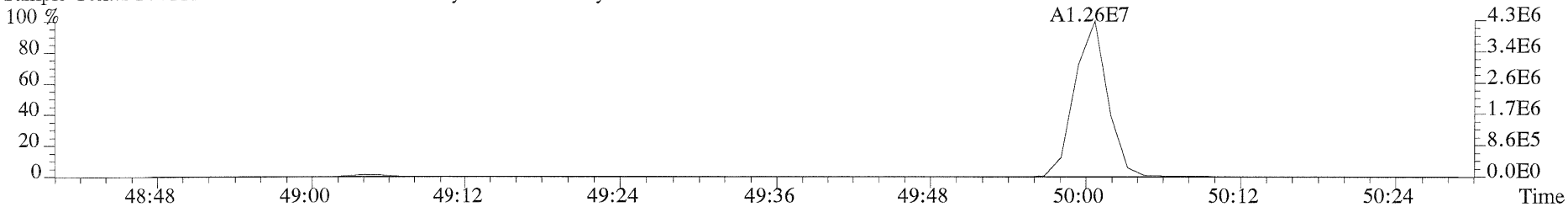
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



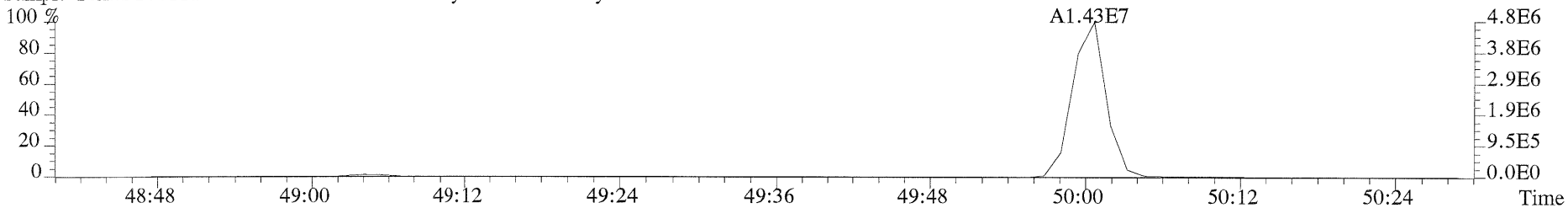
File:11AUG16Z #1-415 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



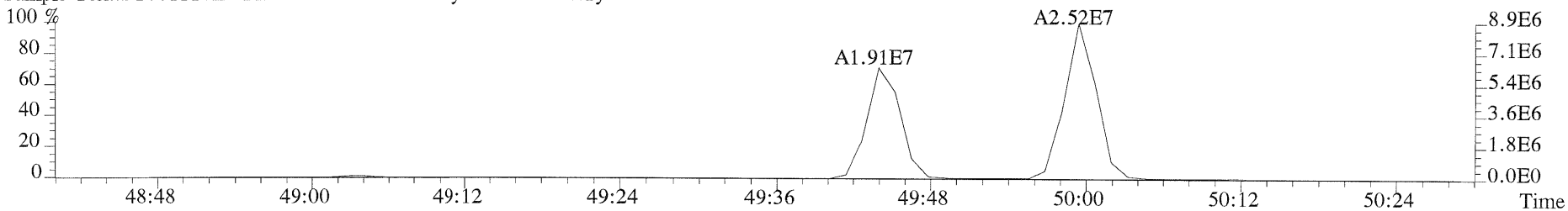
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



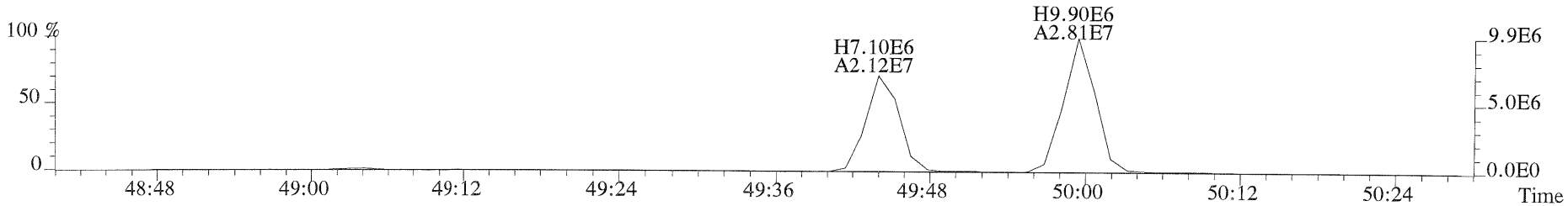
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



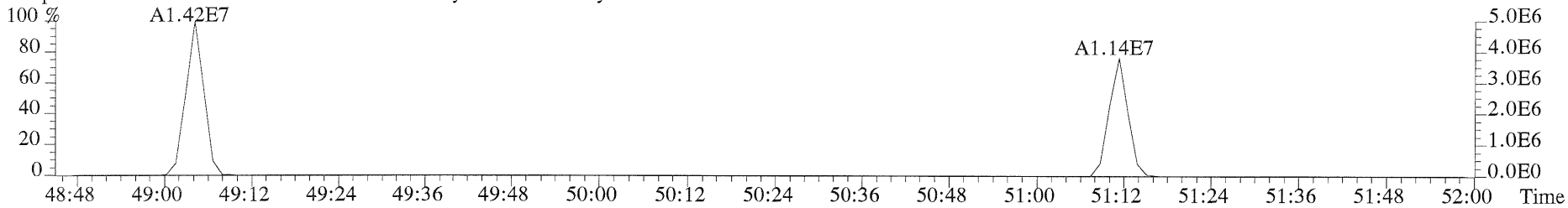
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



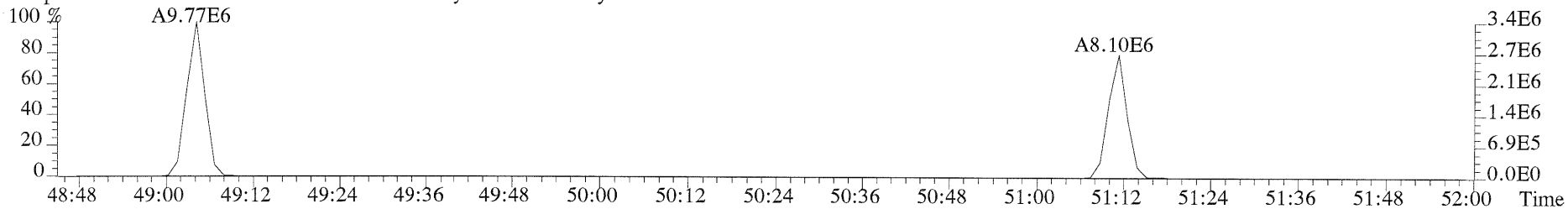
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



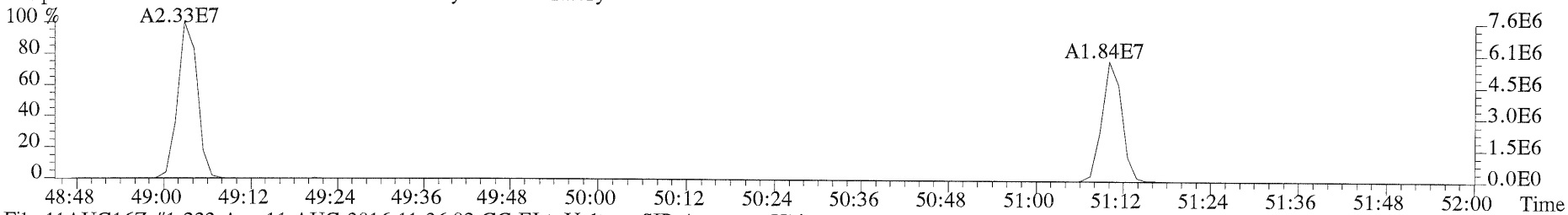
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



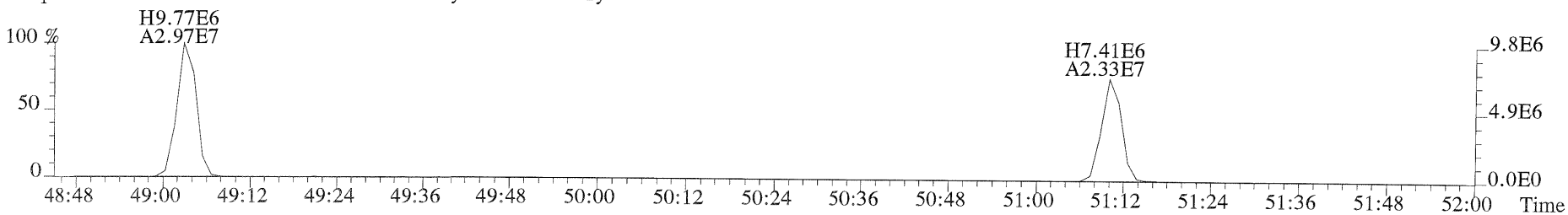
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



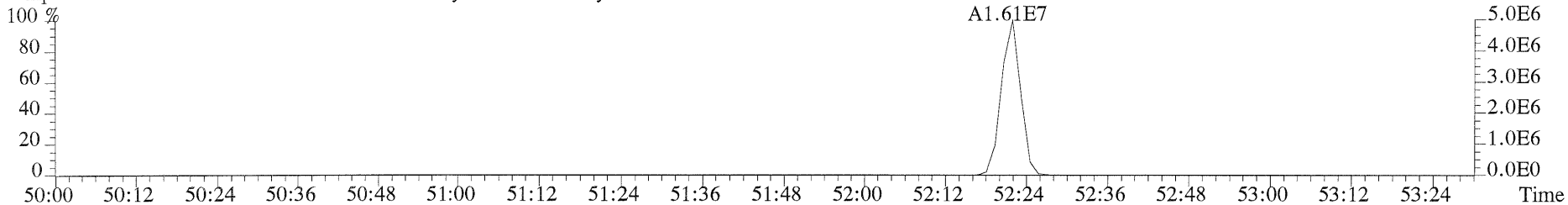
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



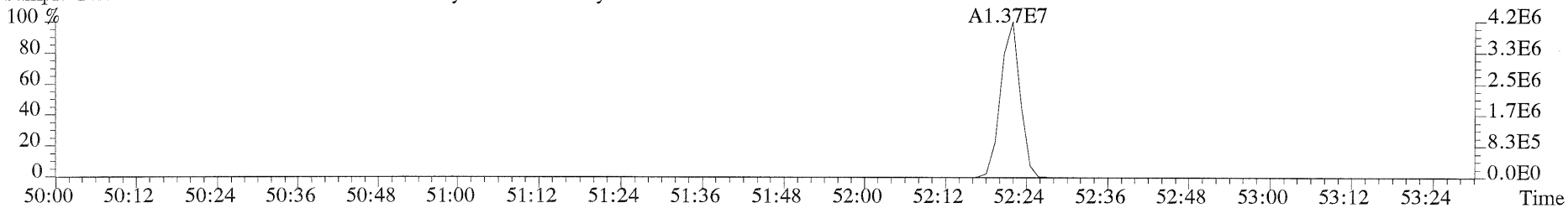
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



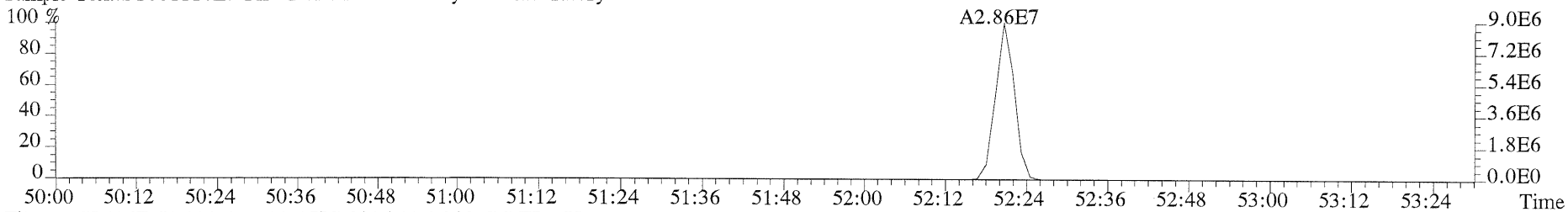
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



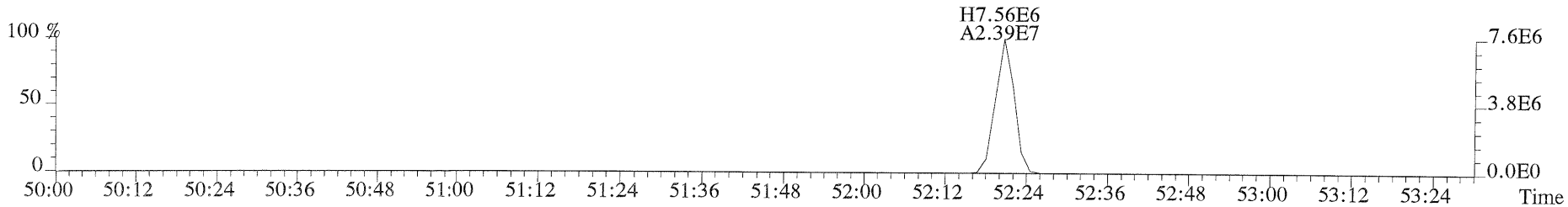
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



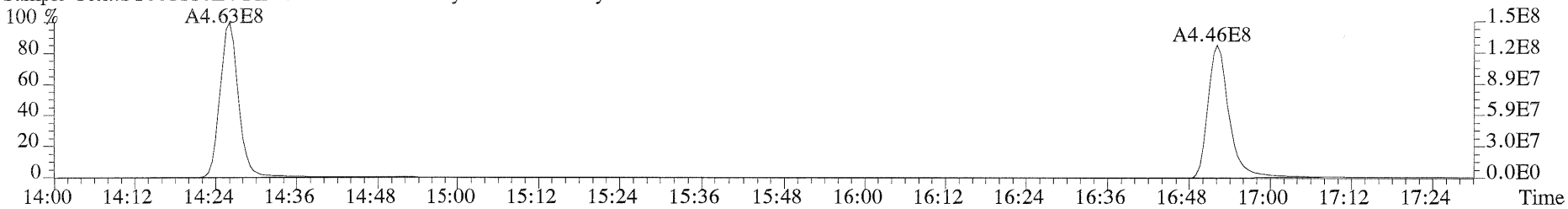
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



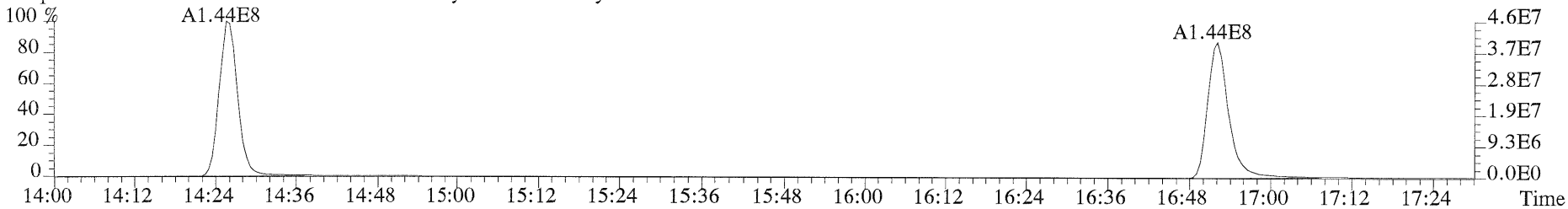
File:11AUG16Z #1-222 Acq:11-AUG-2016 11:26:03 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z3 File Text:Frontier Analytical Laboratory



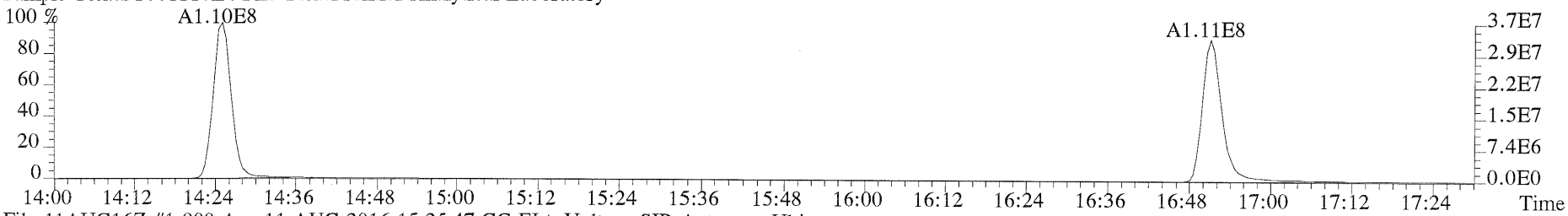
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



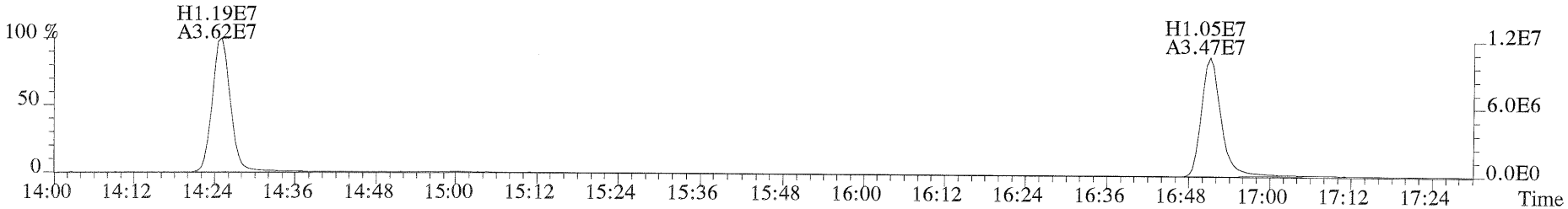
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



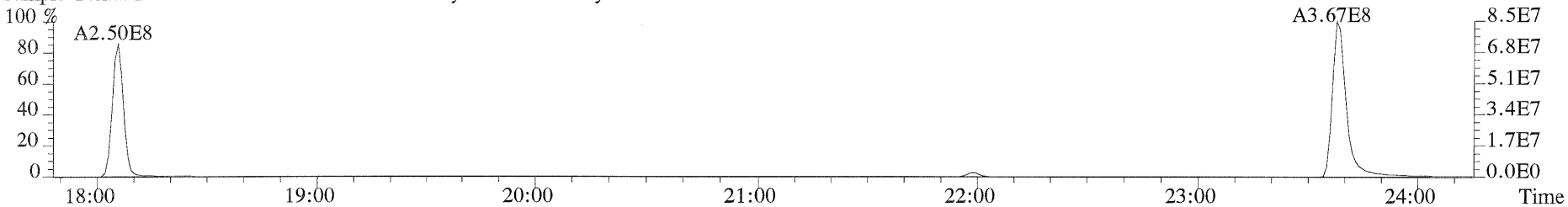
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



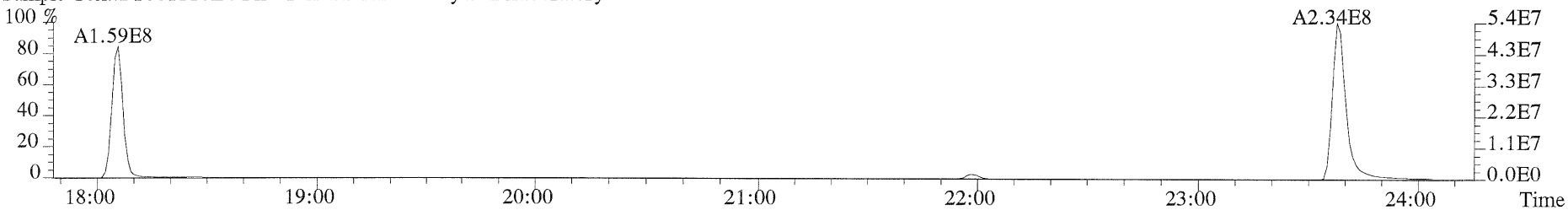
File:11AUG16Z #1-900 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



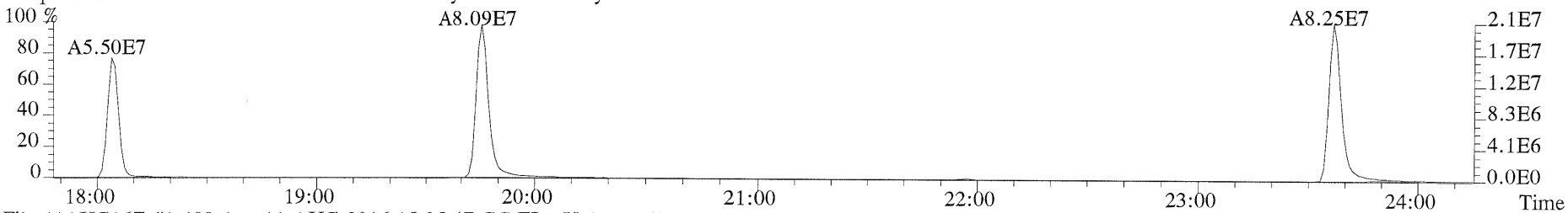
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



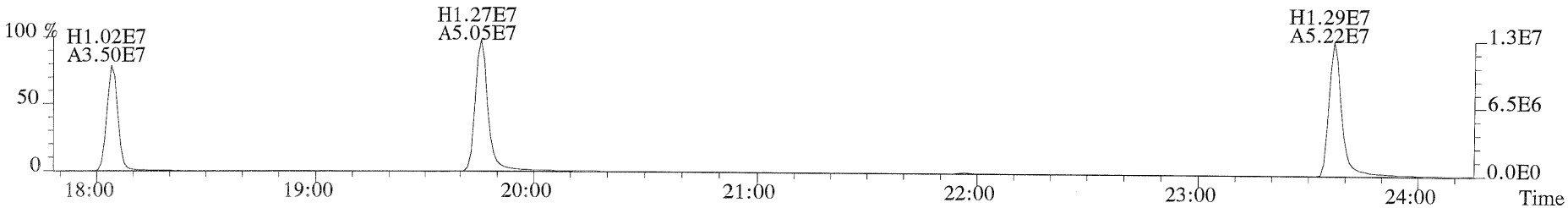
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



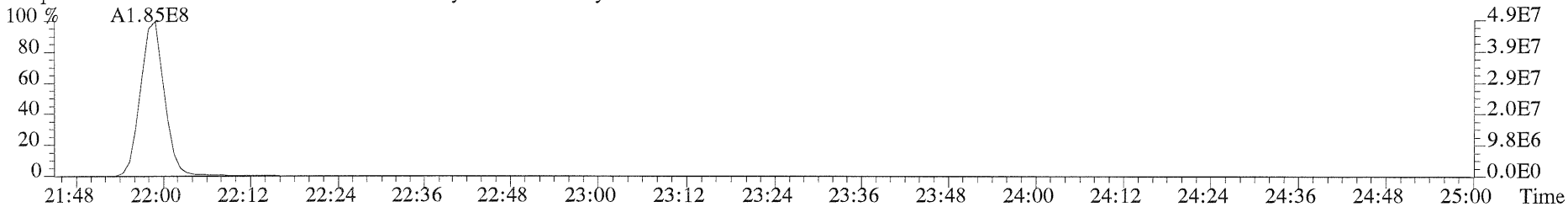
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



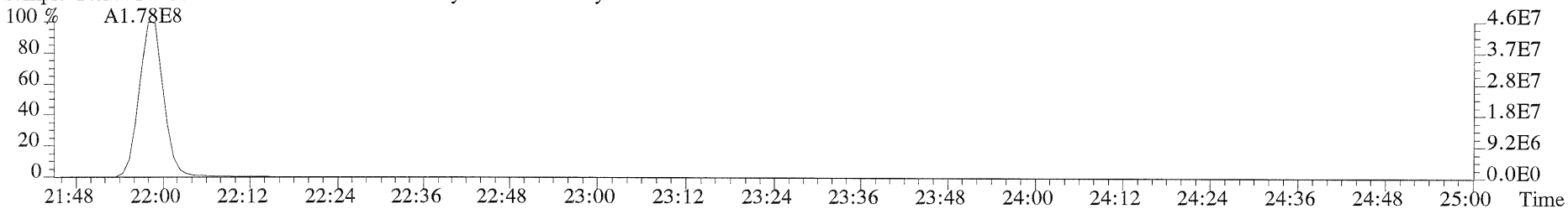
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



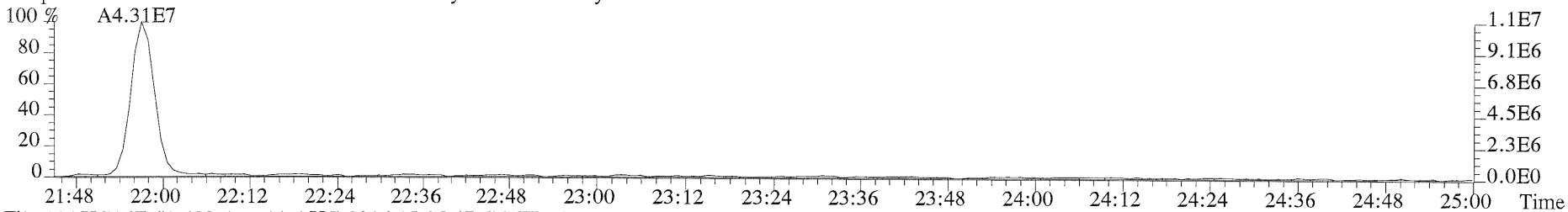
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



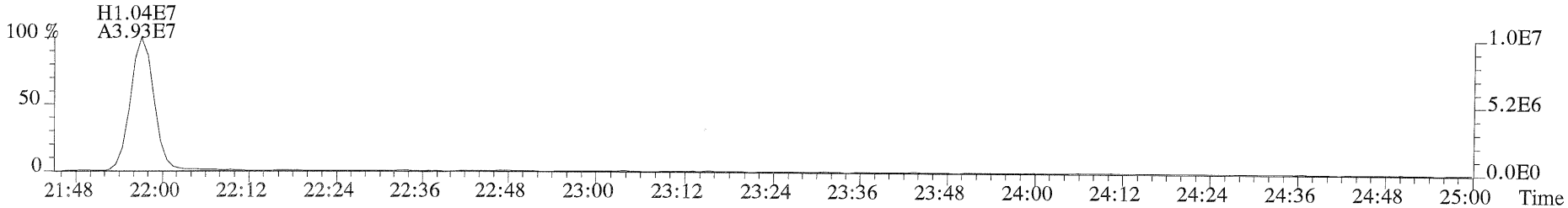
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



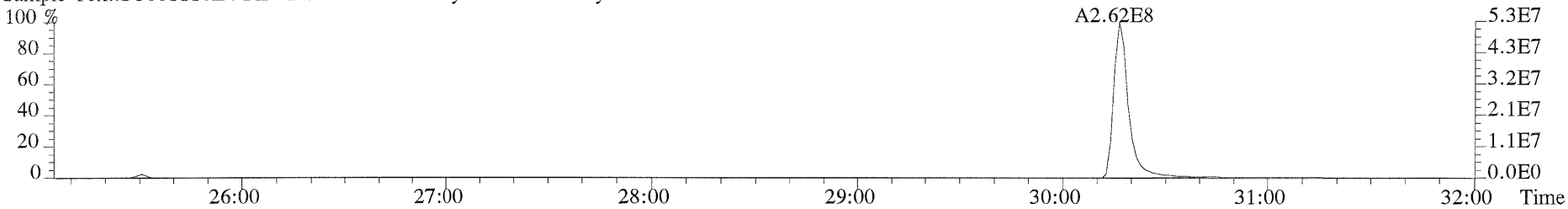
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



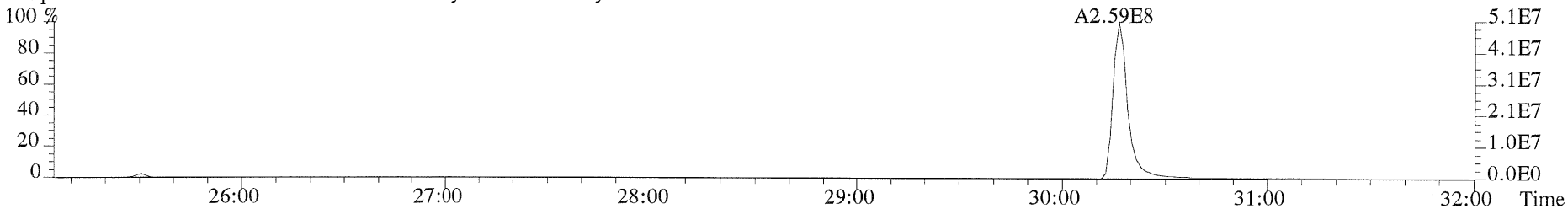
File:11AUG16Z #1-498 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



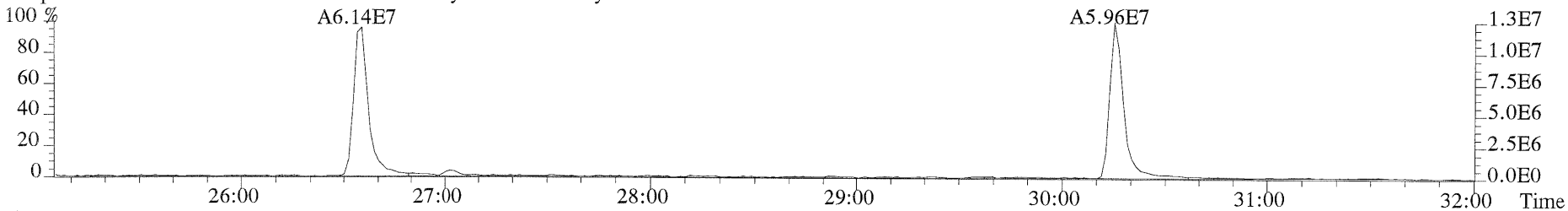
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



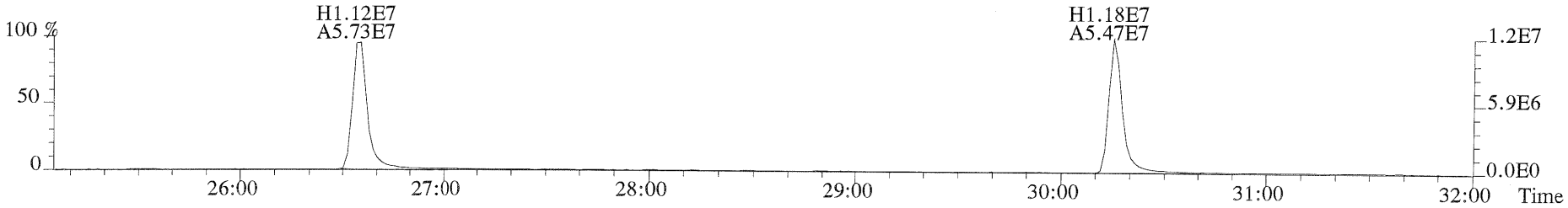
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



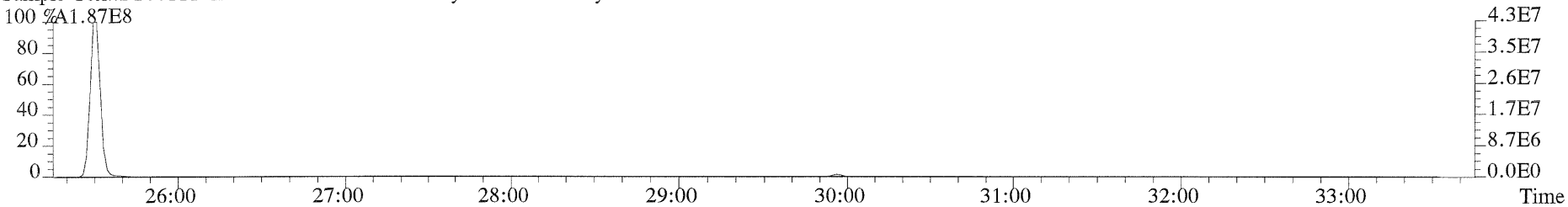
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



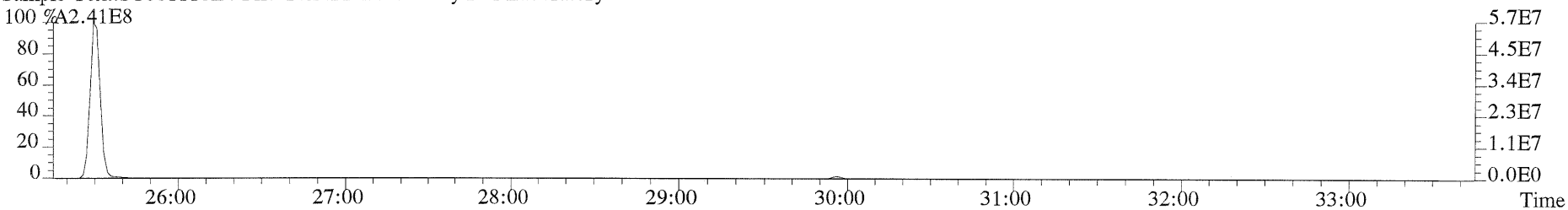
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



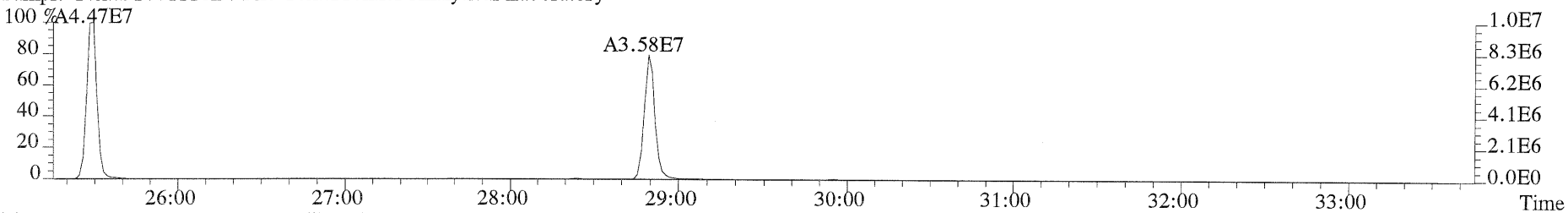
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



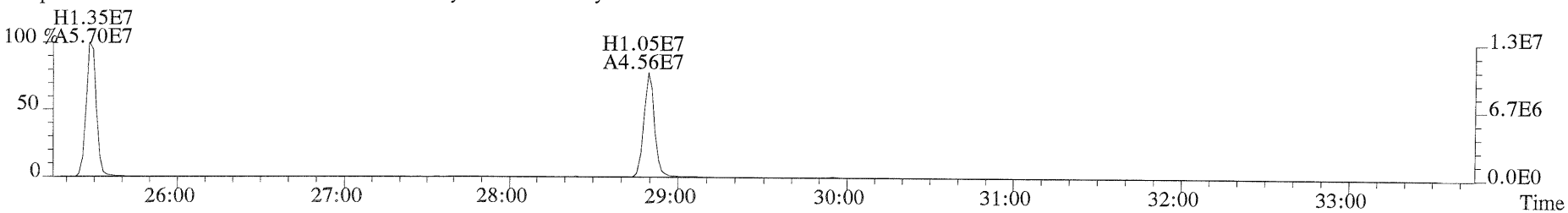
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



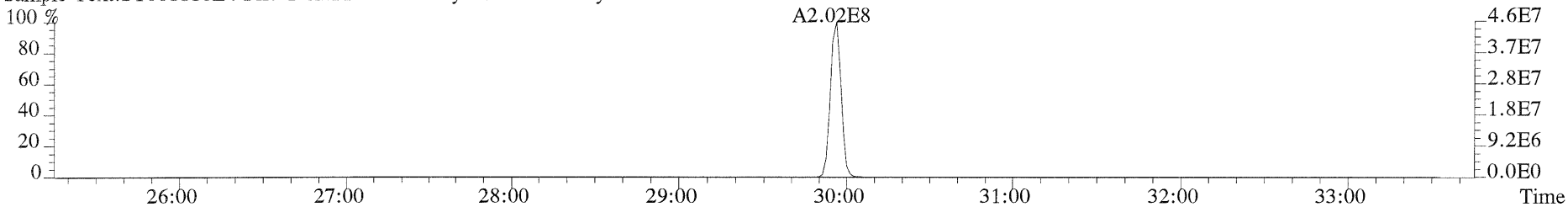
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



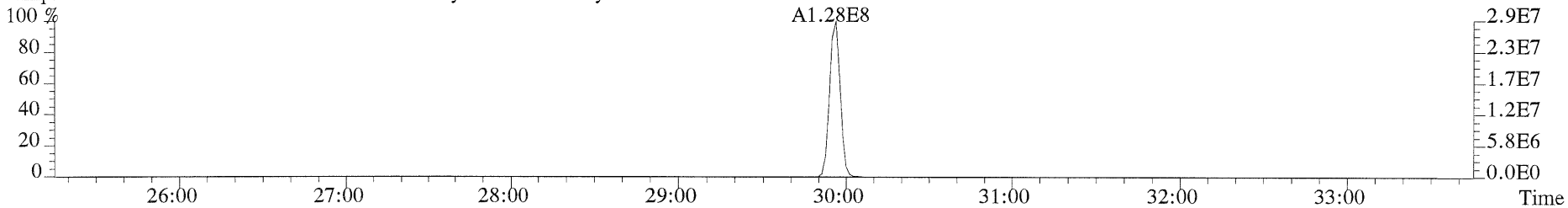
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



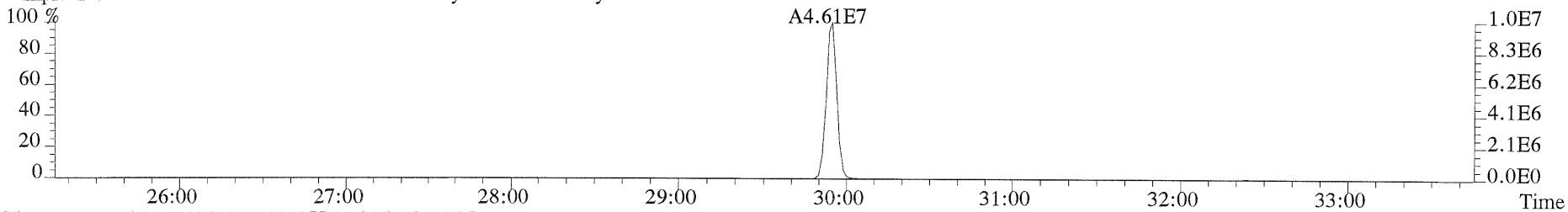
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



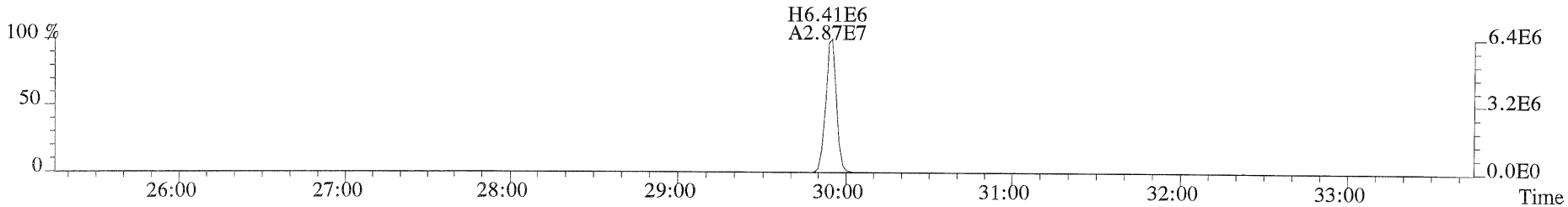
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



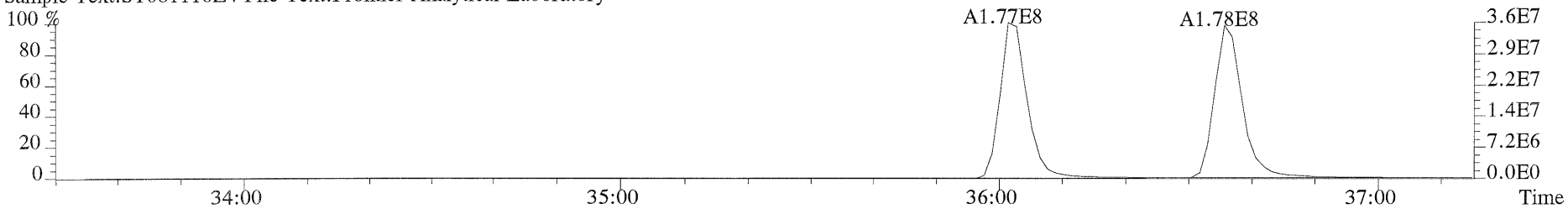
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



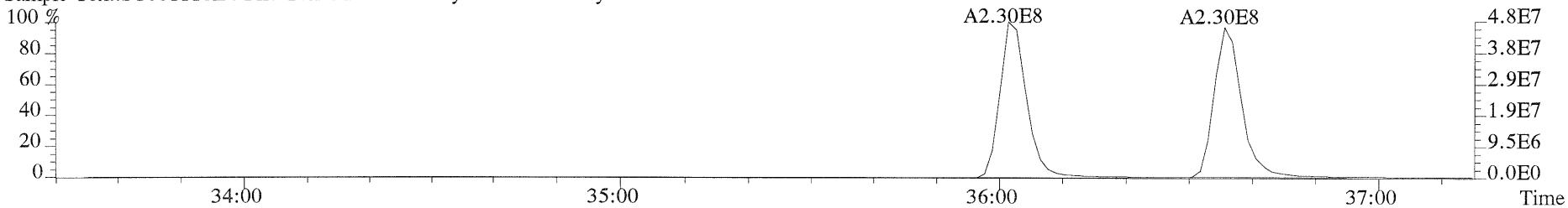
File:11AUG16Z #1-404 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



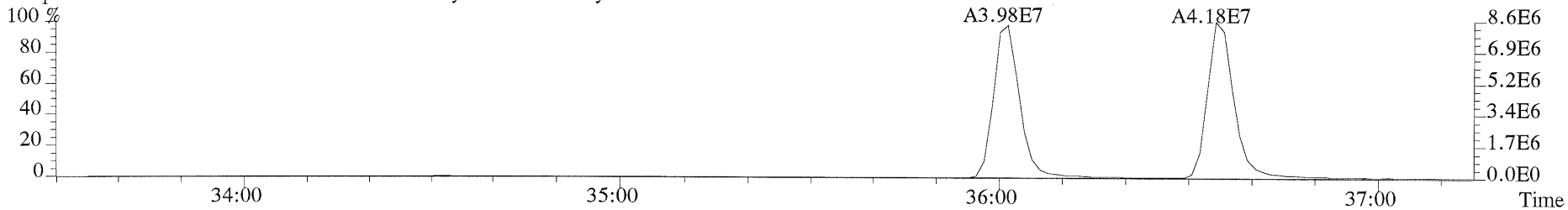
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



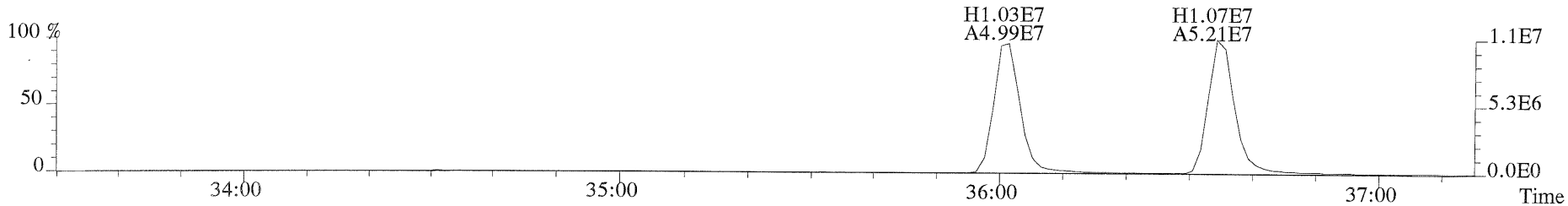
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



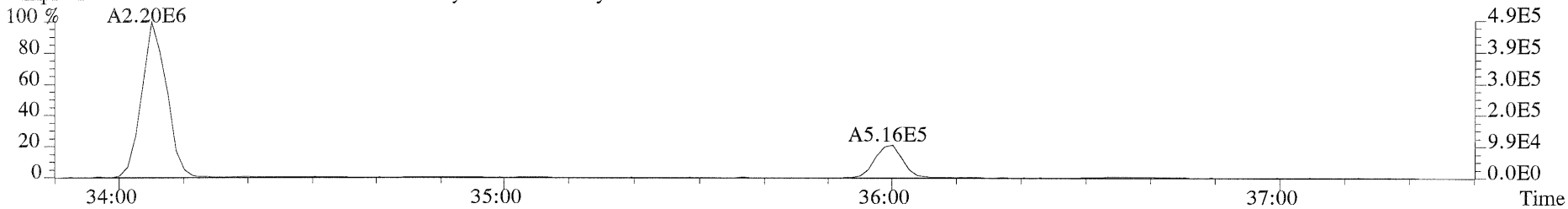
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



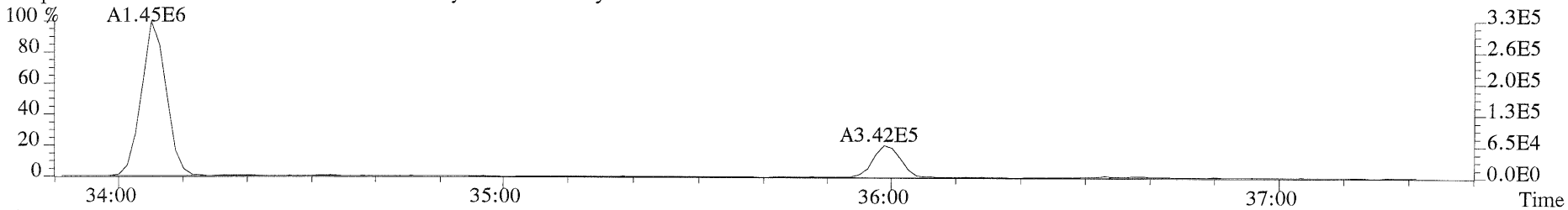
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



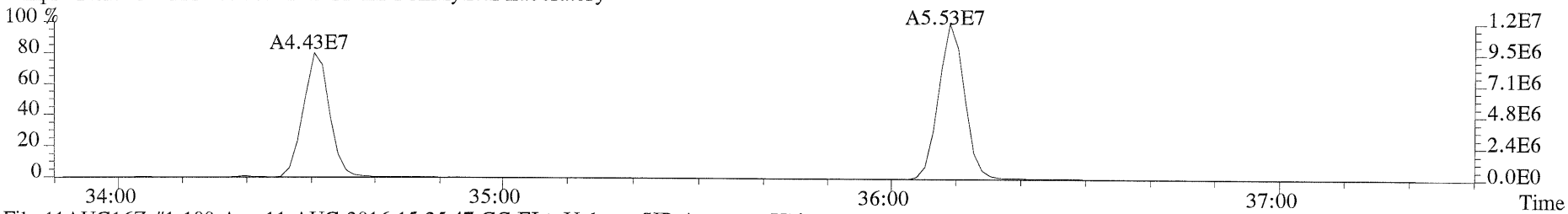
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



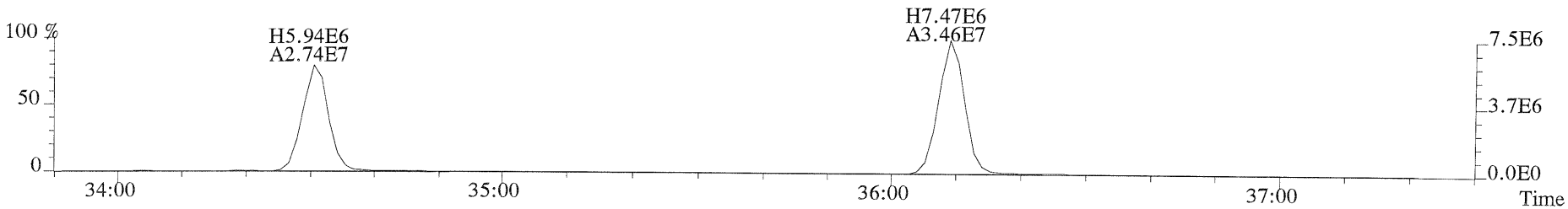
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



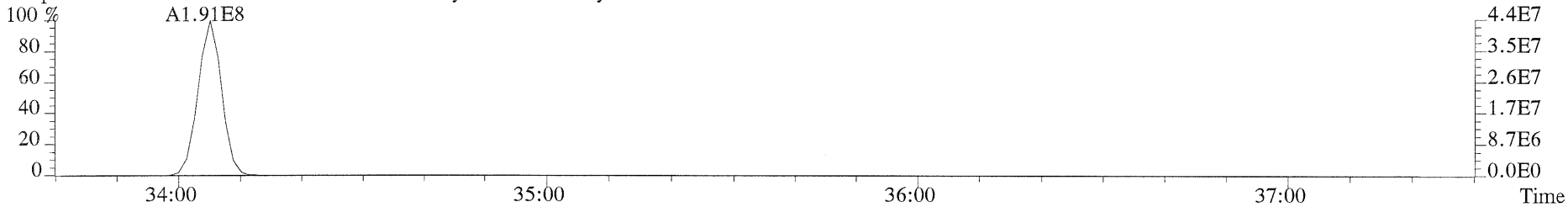
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



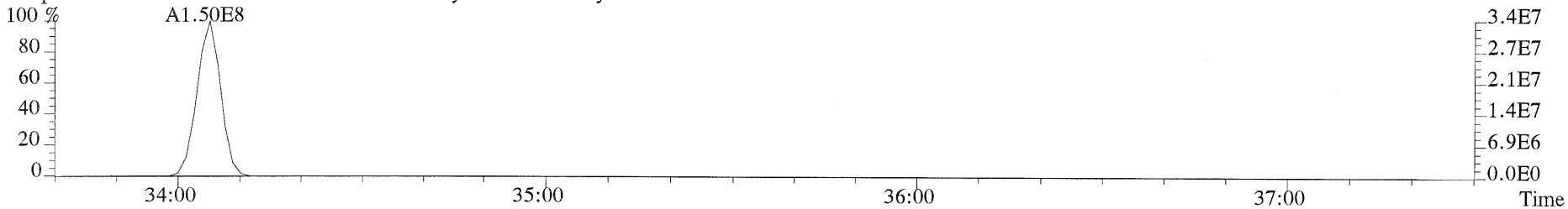
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



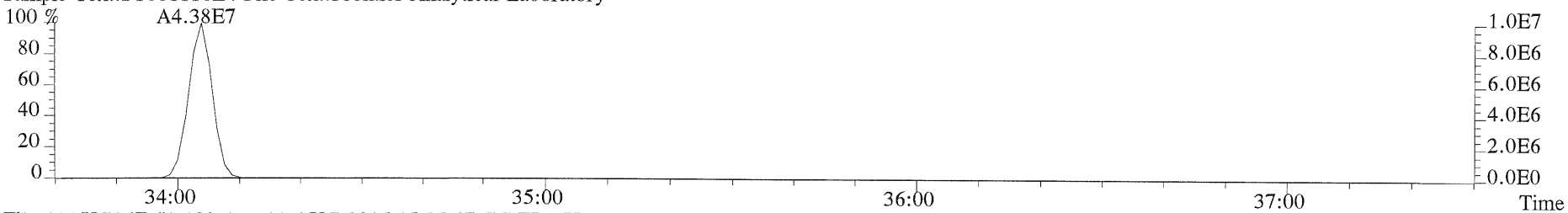
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



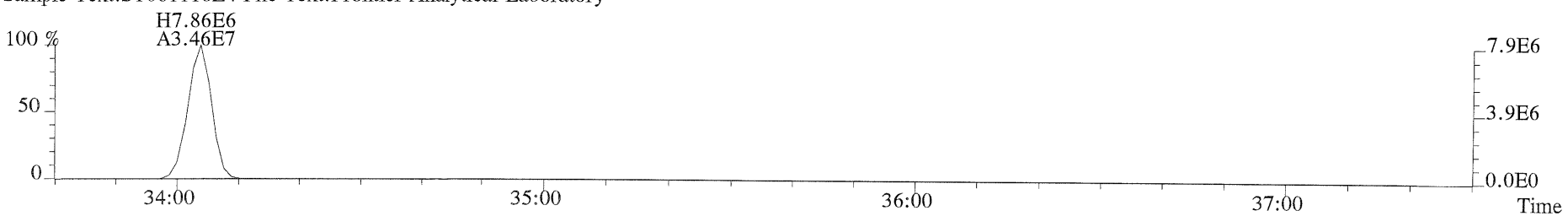
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



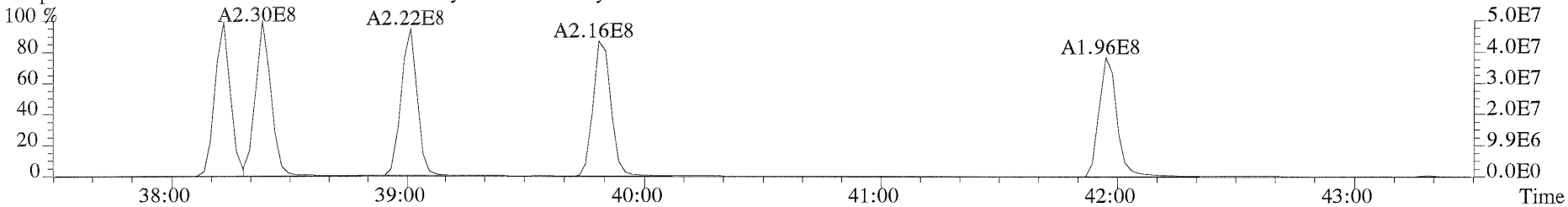
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



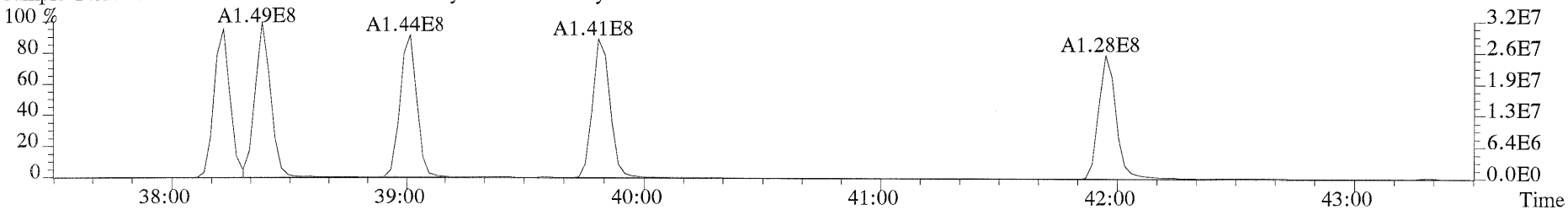
File:11AUG16Z #1-180 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:5 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



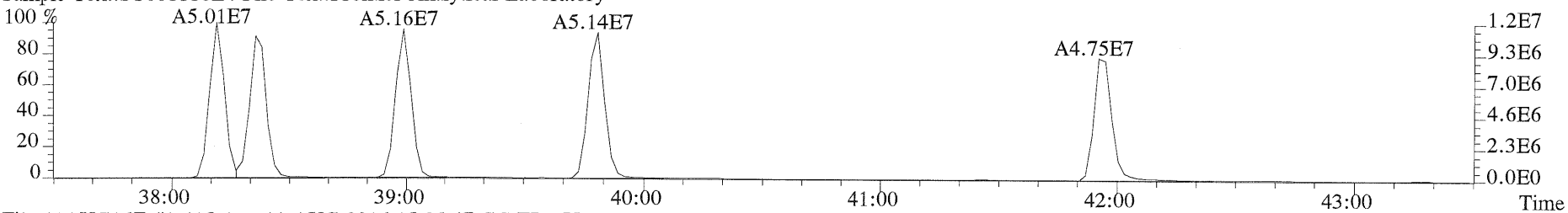
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



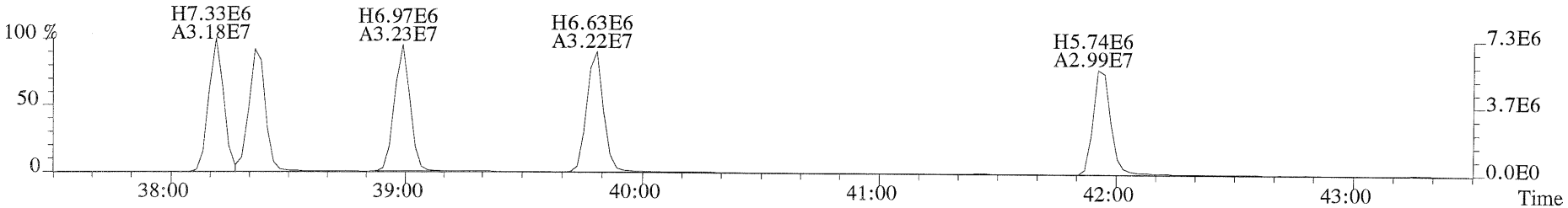
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



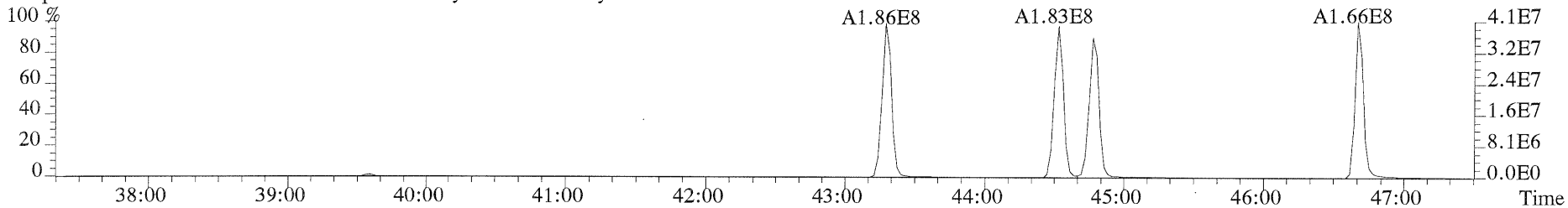
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



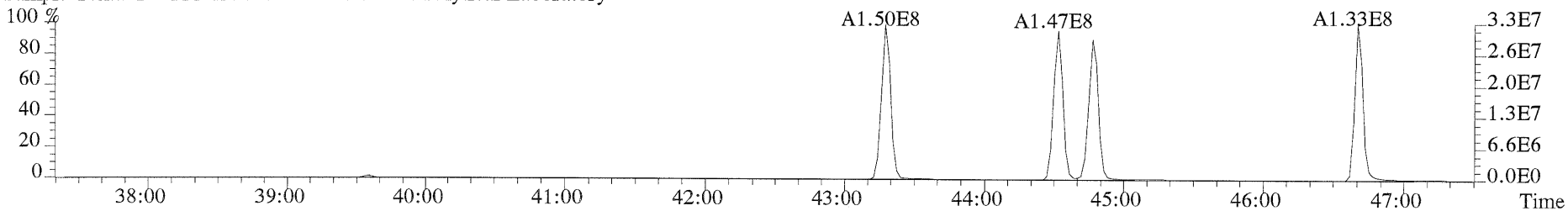
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



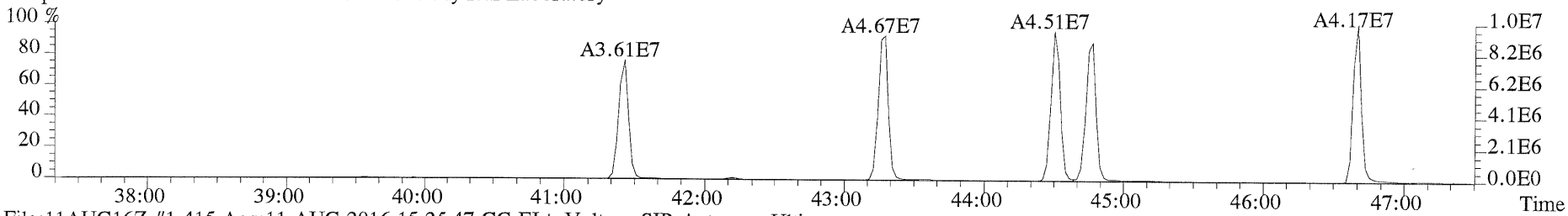
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



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



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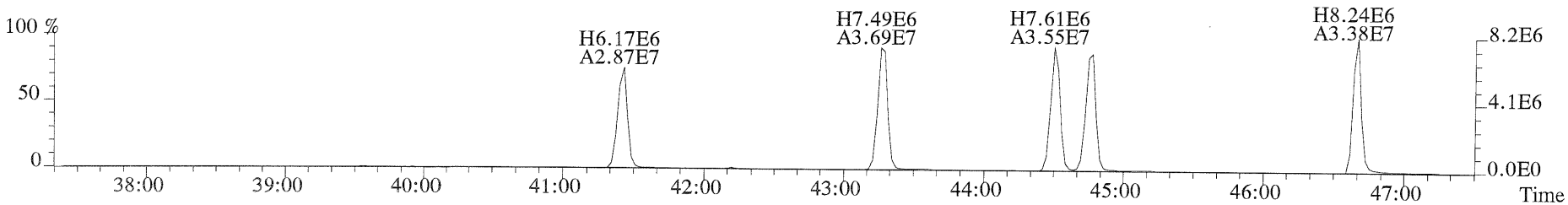
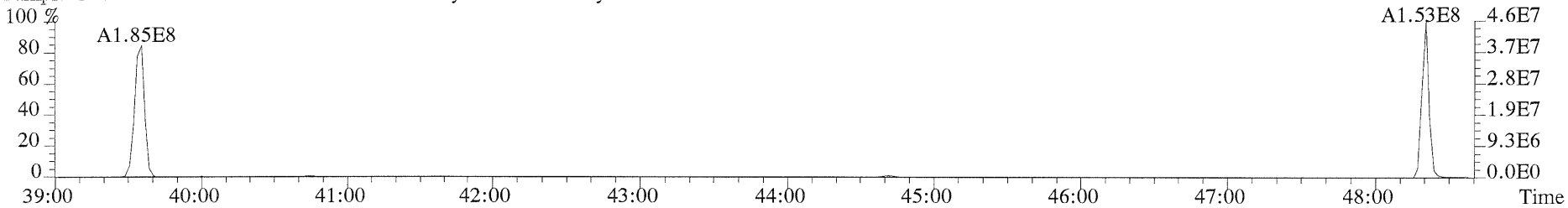
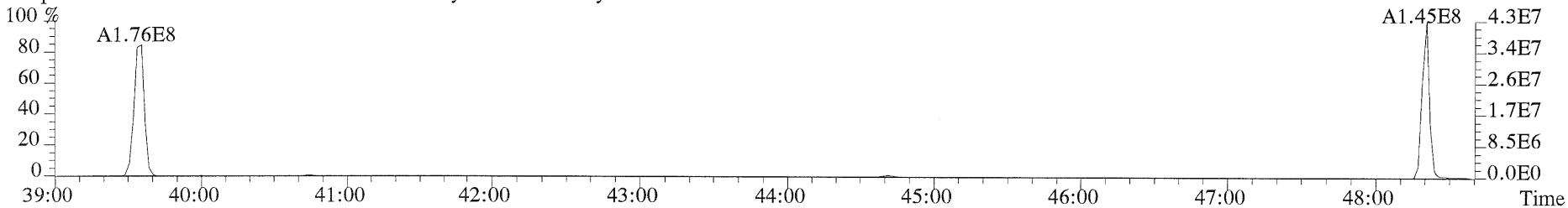
373.8788 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



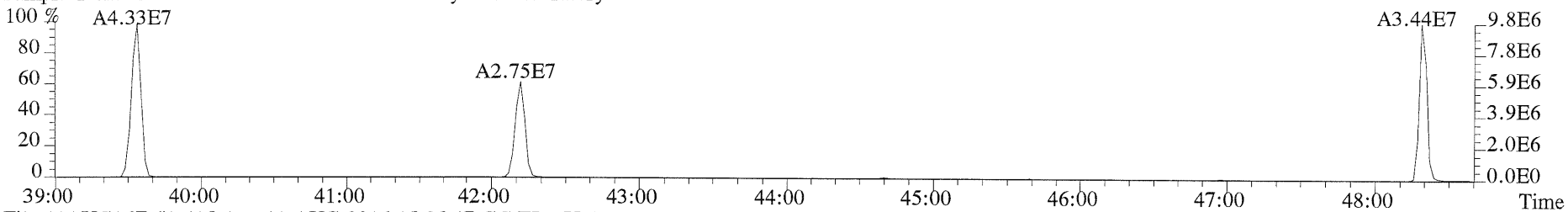
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



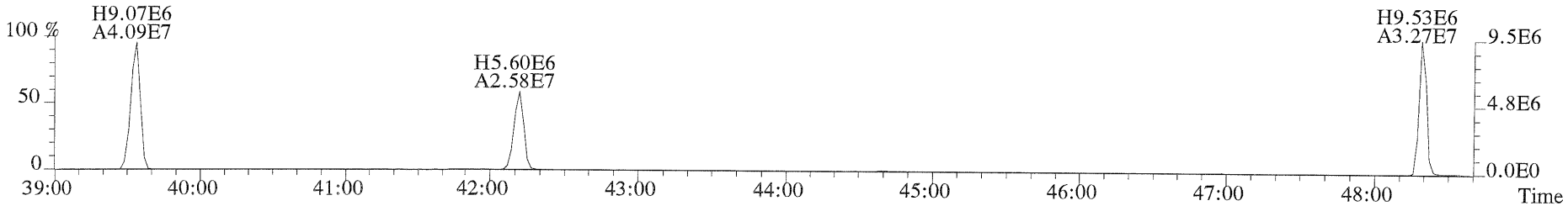
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



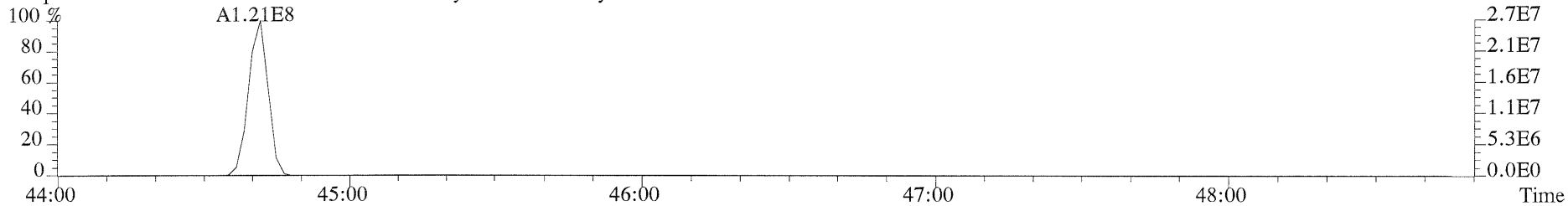
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



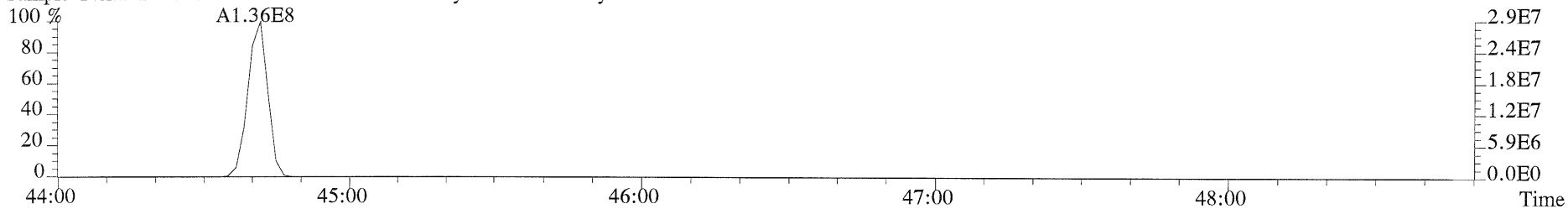
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



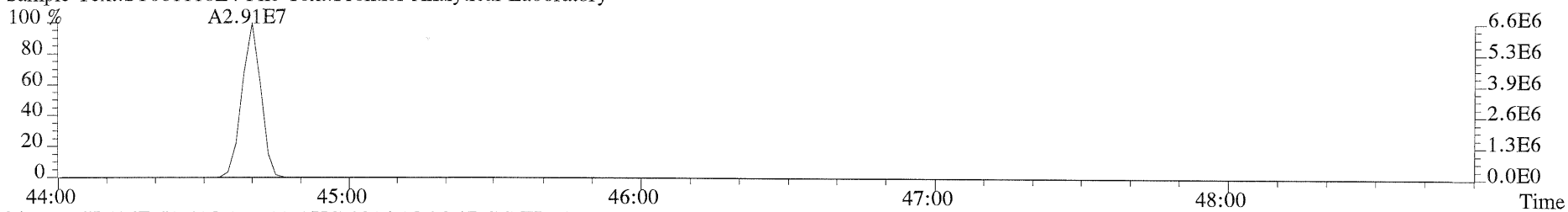
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



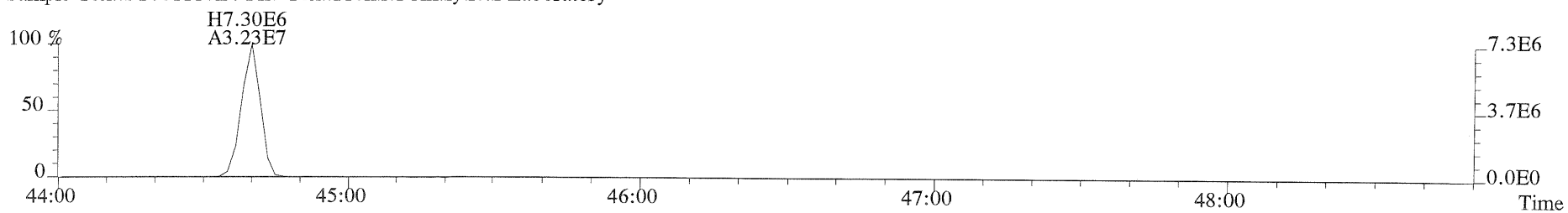
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



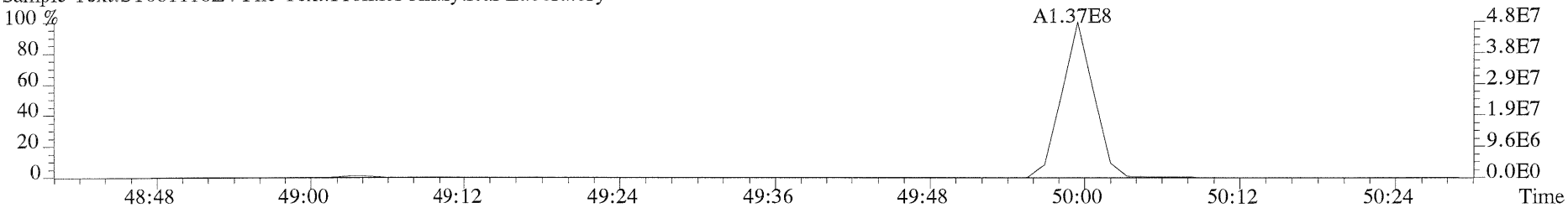
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



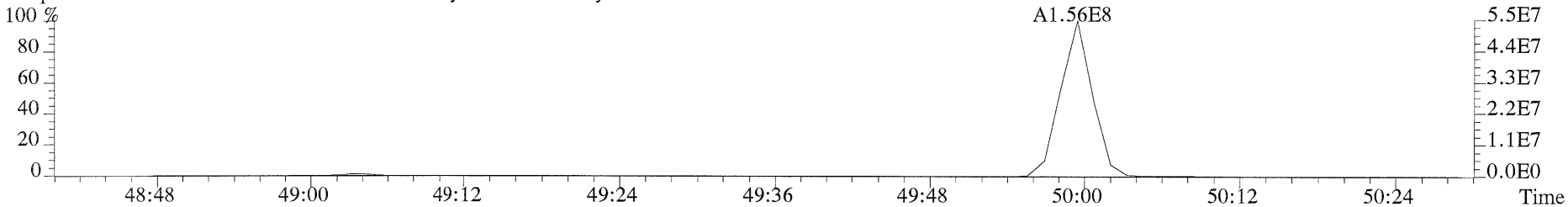
File:11AUG16Z #1-415 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



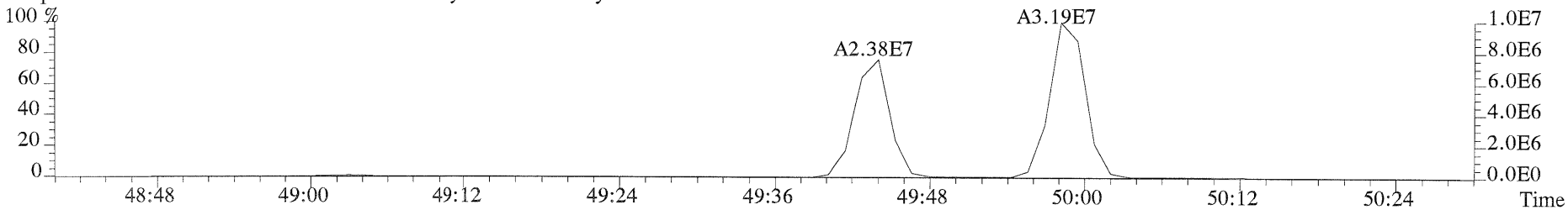
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



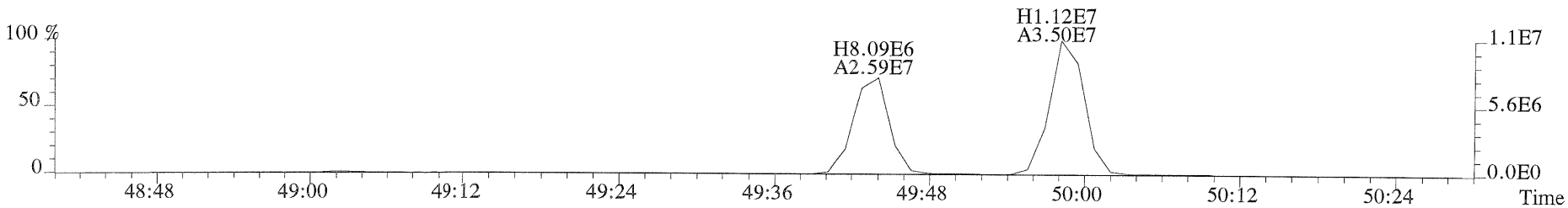
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



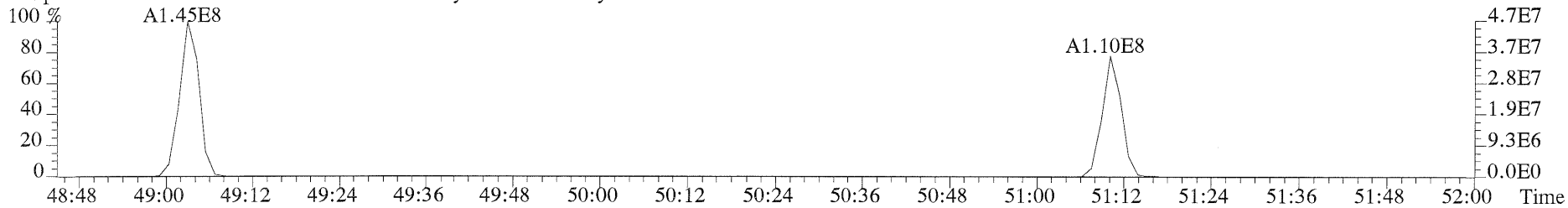
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



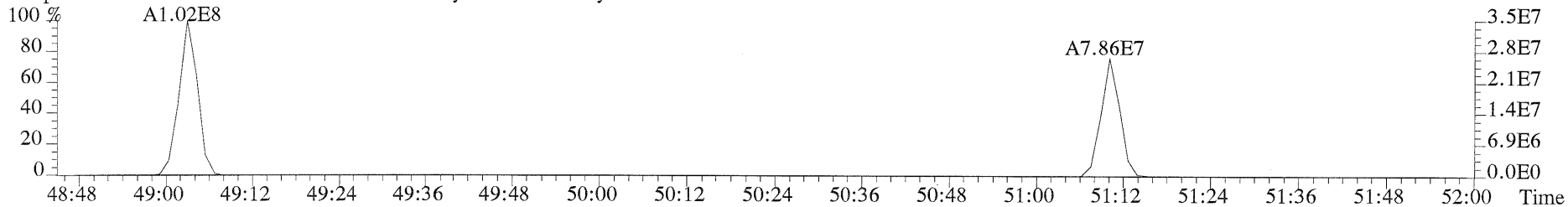
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



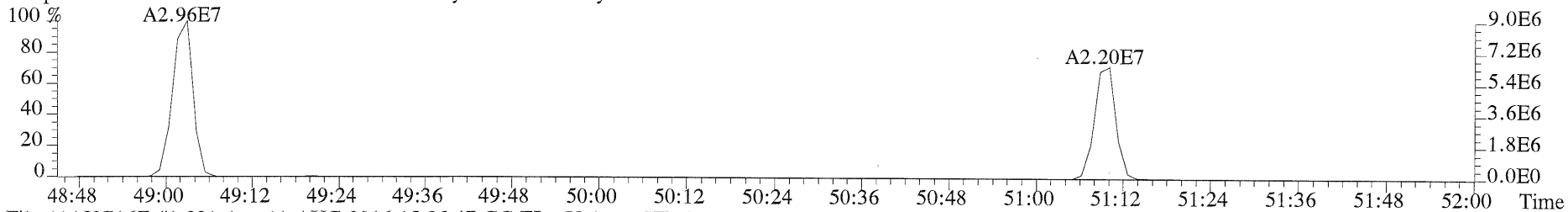
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



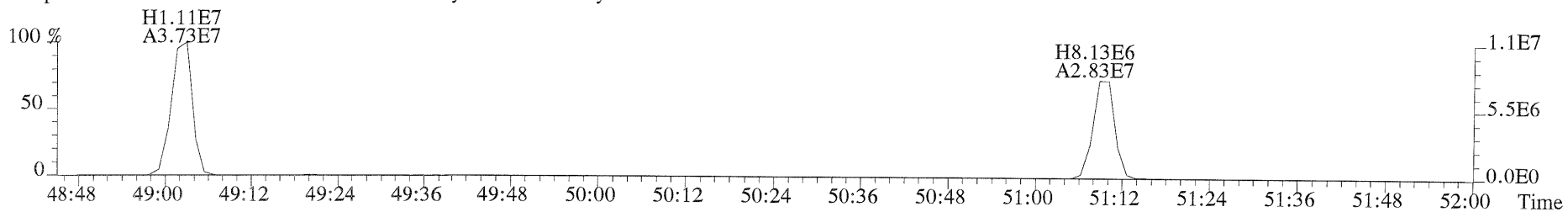
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



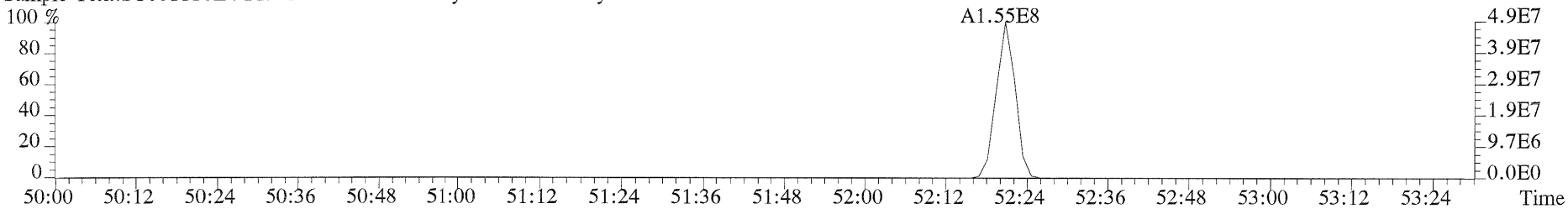
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



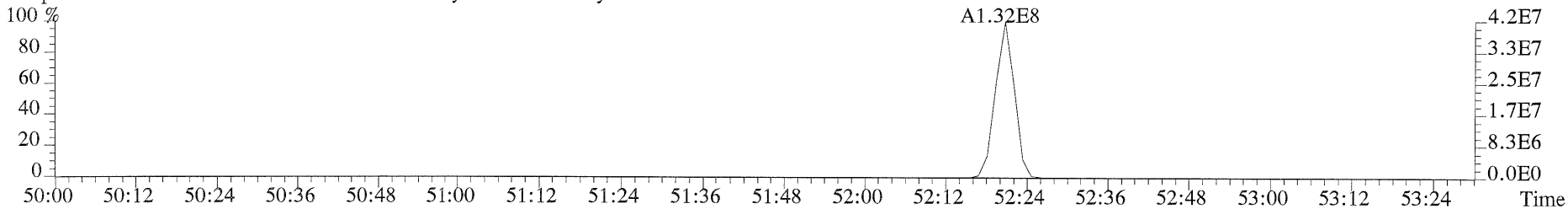
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



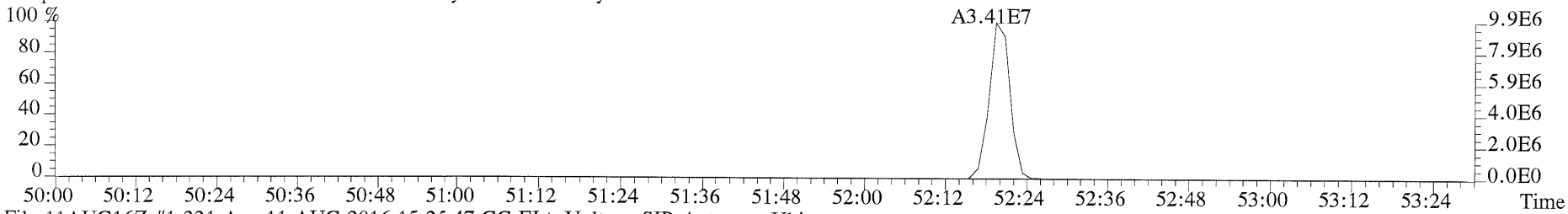
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



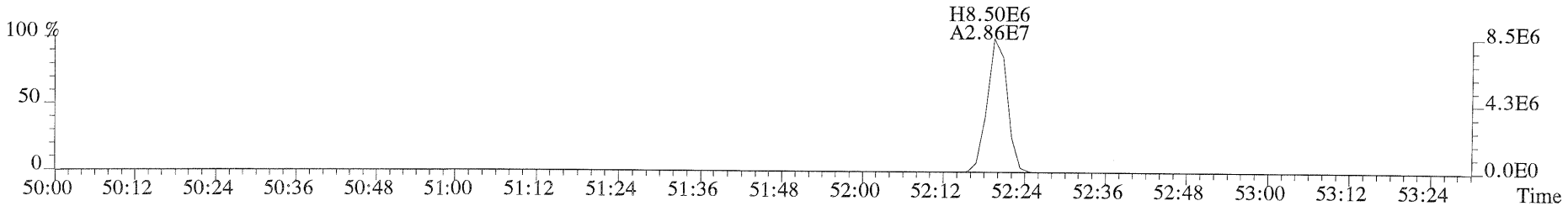
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



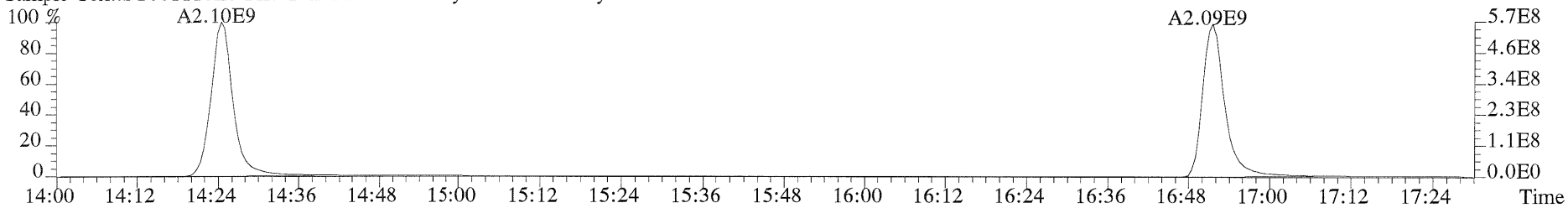
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



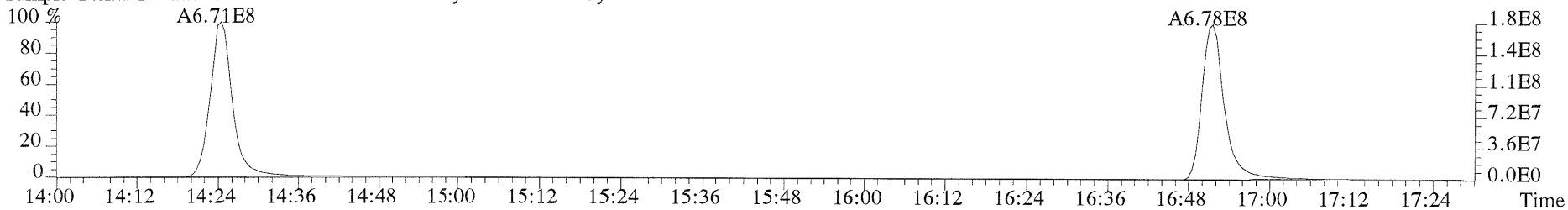
File:11AUG16Z #1-221 Acq:11-AUG-2016 15:25:47 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:5 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z4 File Text:Frontier Analytical Laboratory



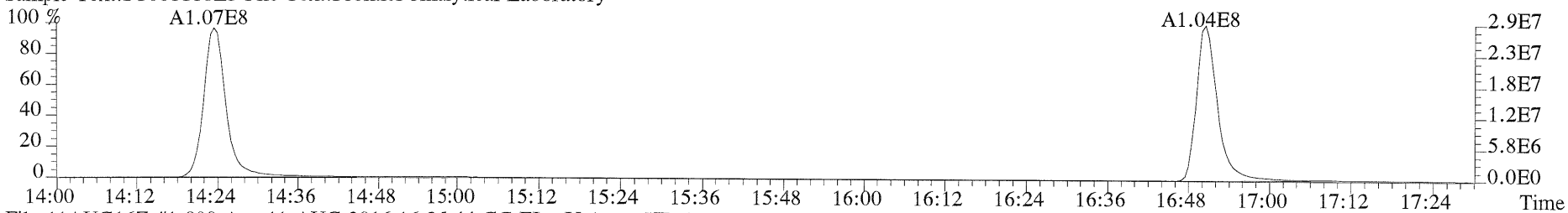
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



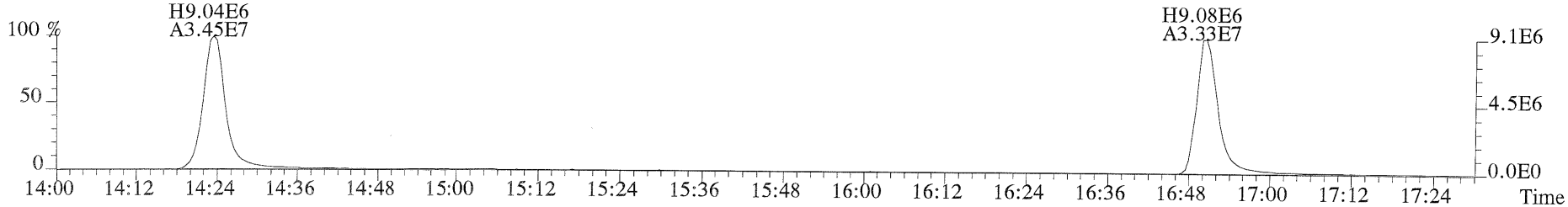
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



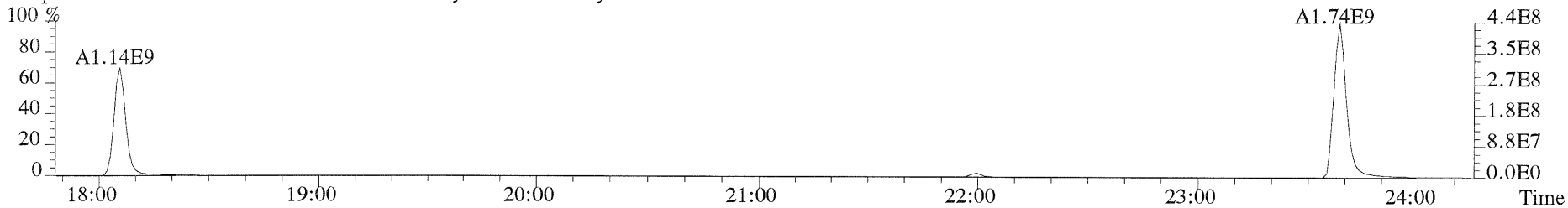
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



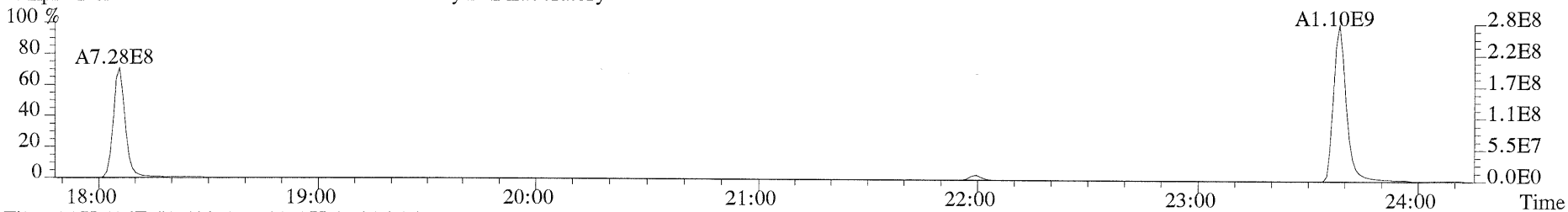
File:11AUG16Z #1-900 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



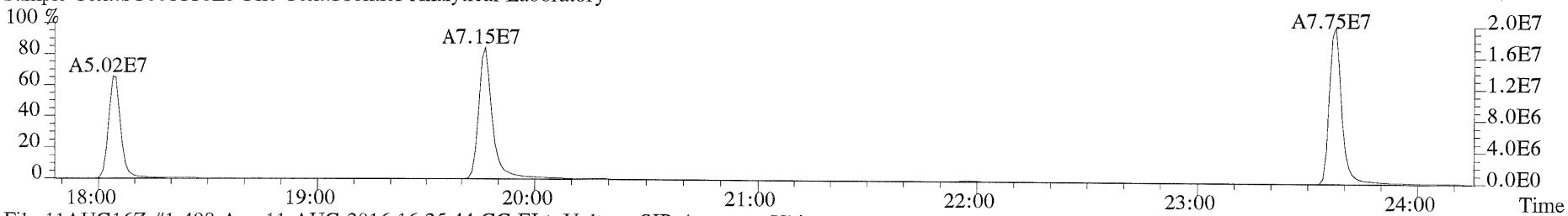
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



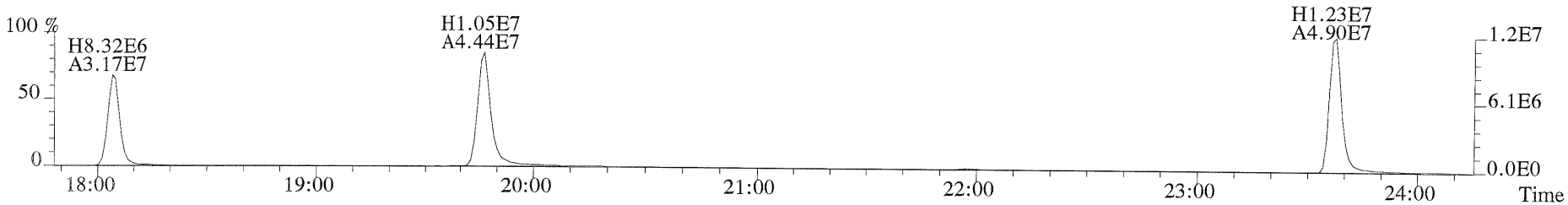
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



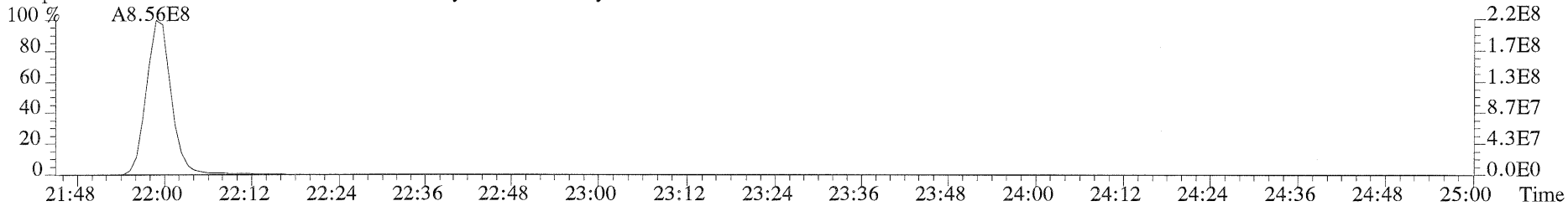
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



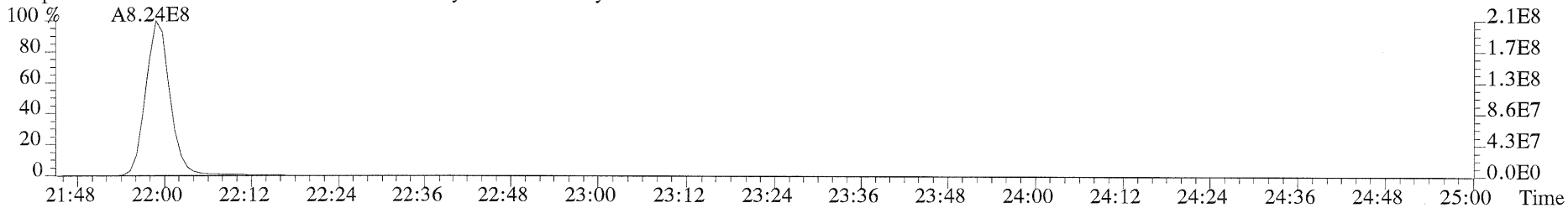
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



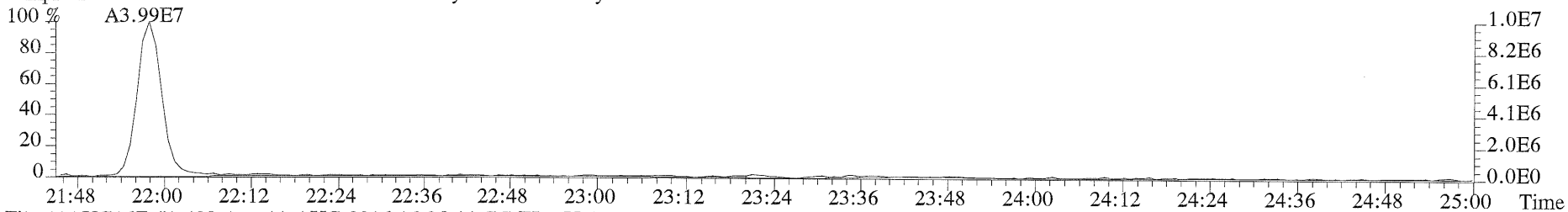
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



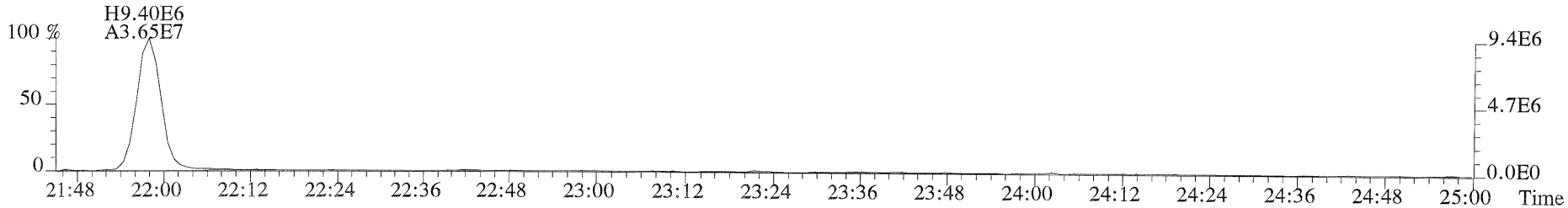
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



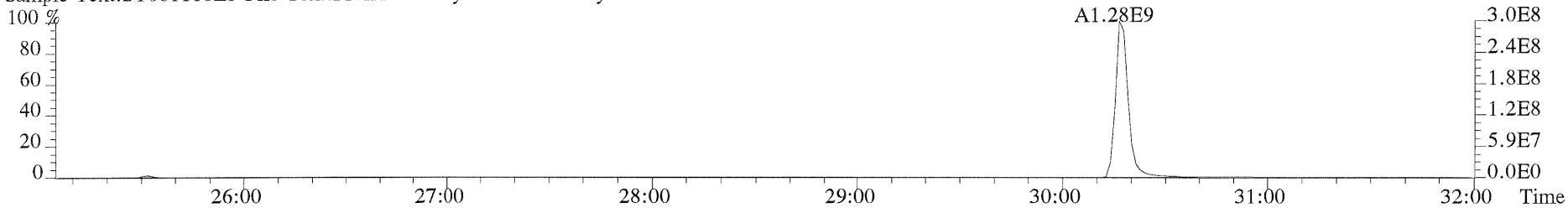
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



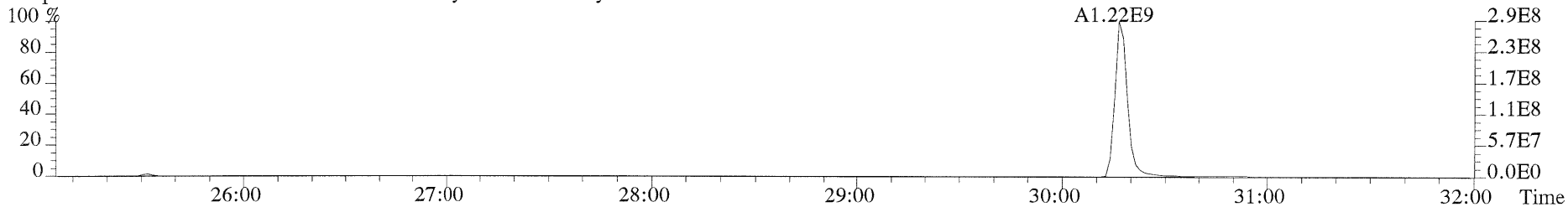
File:11AUG16Z #1-498 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



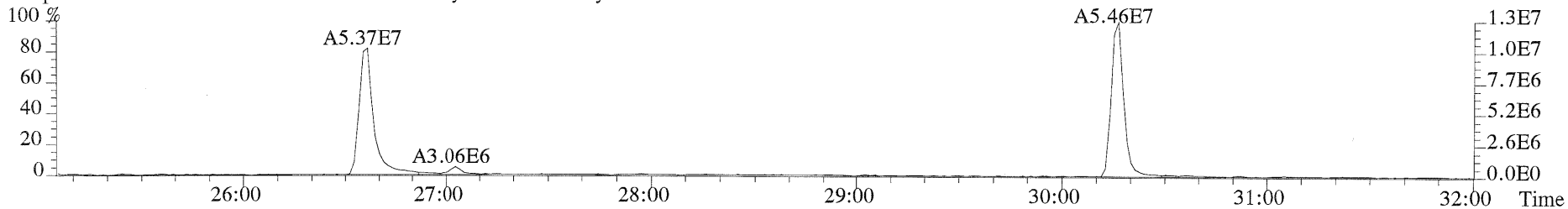
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



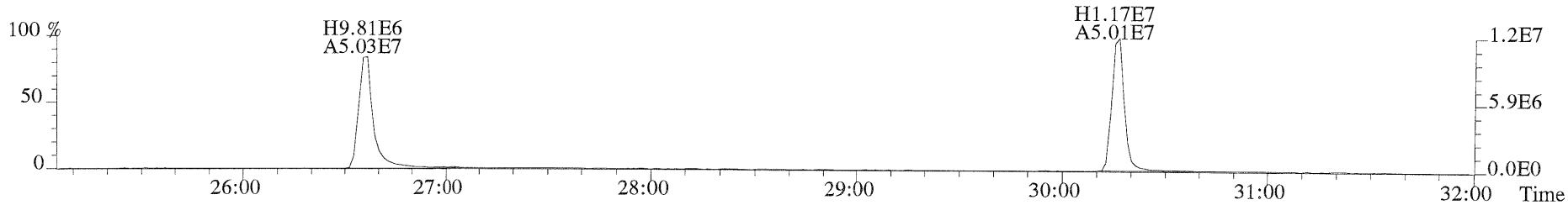
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



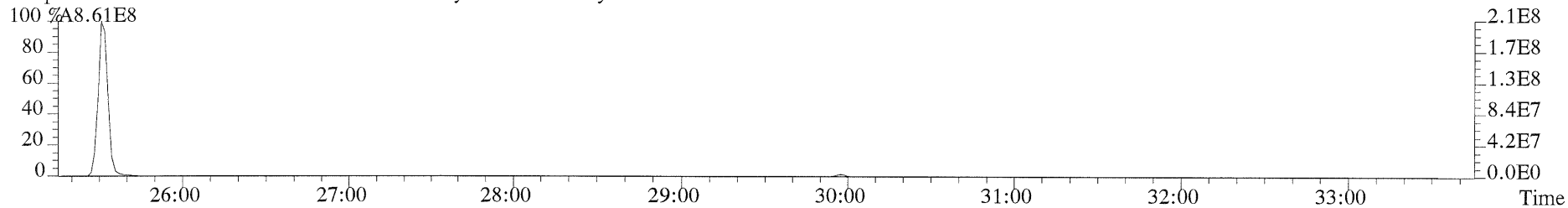
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



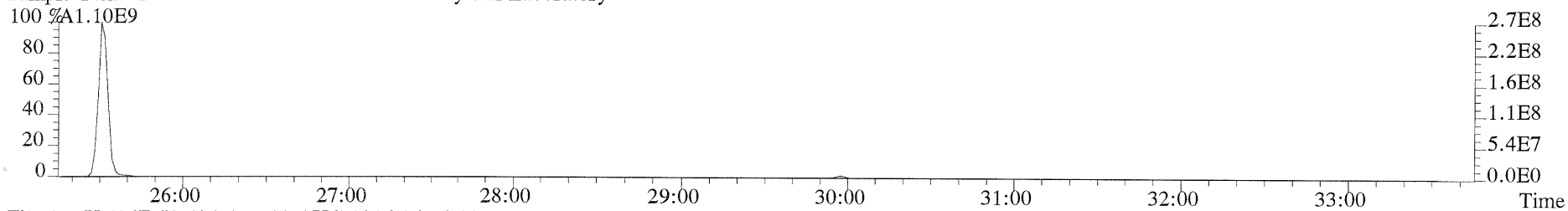
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



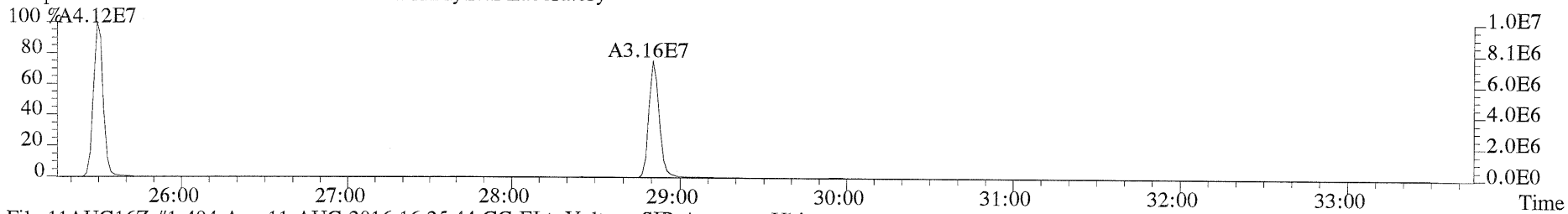
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



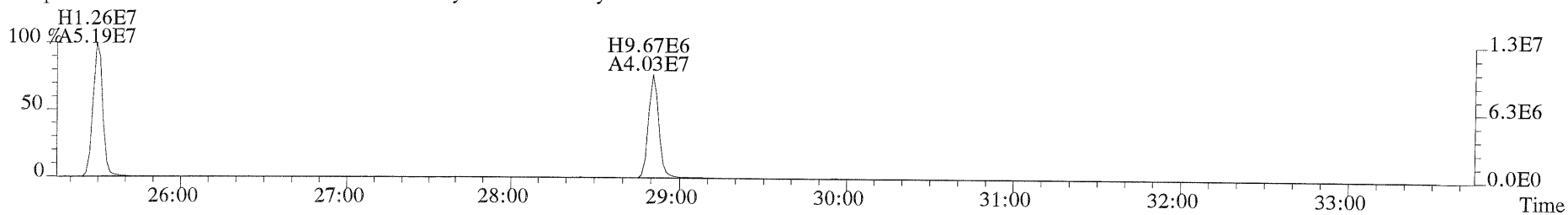
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



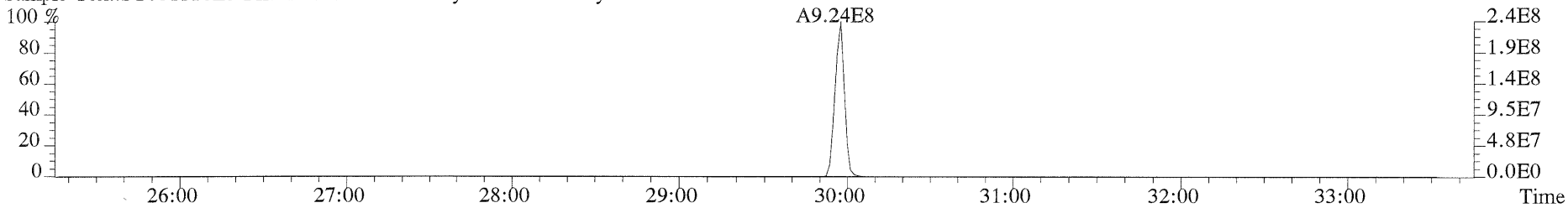
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



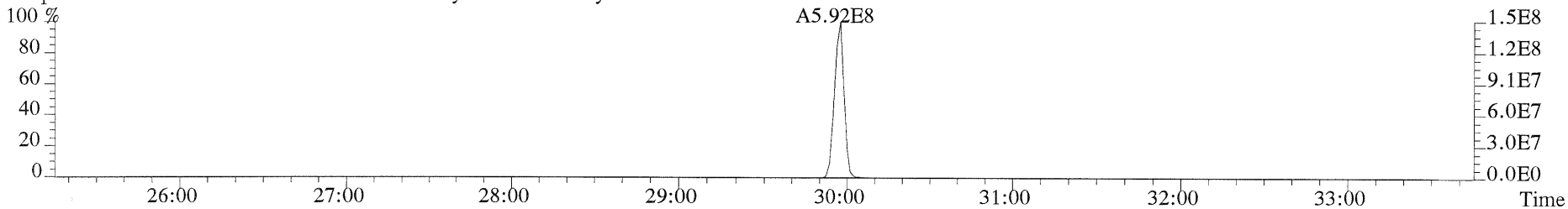
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



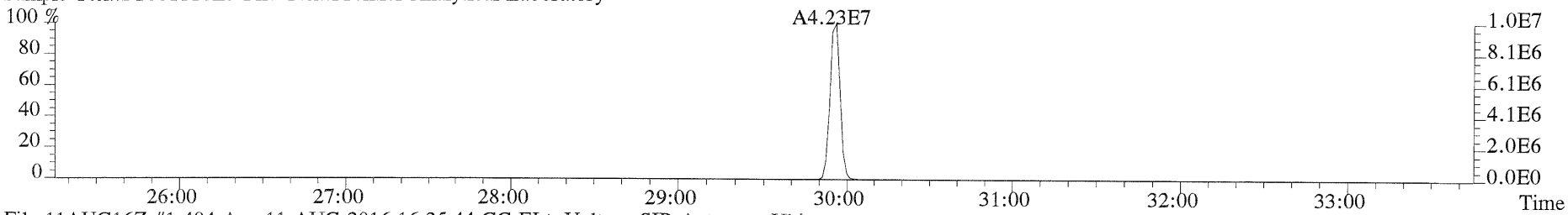
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



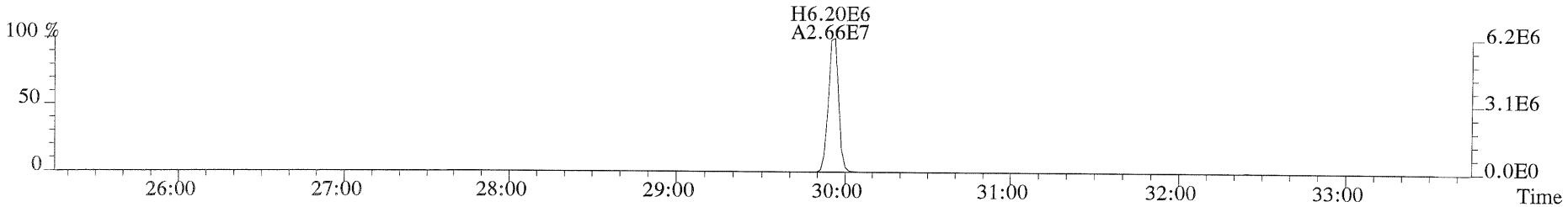
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



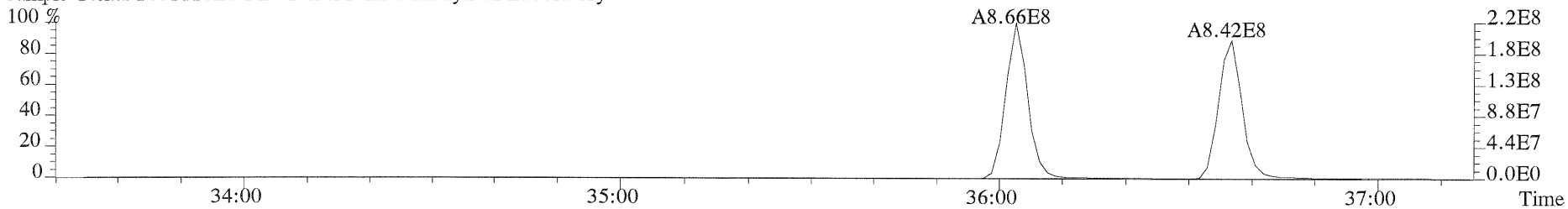
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



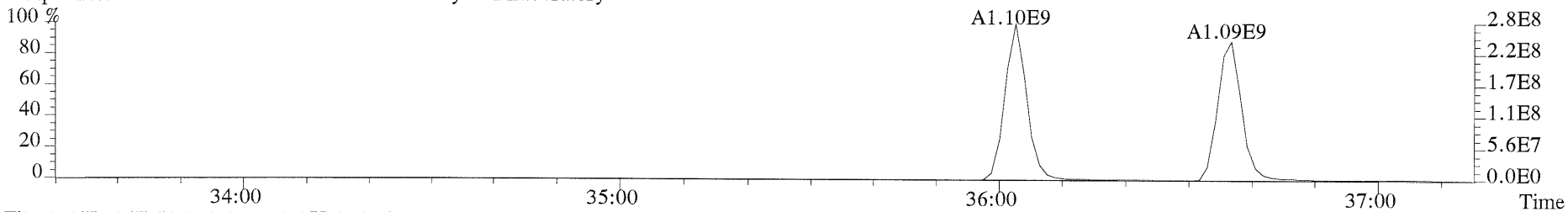
File:11AUG16Z #1-404 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



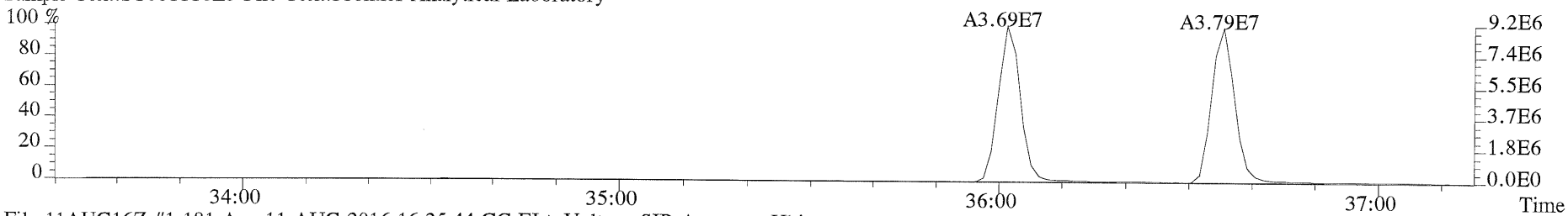
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



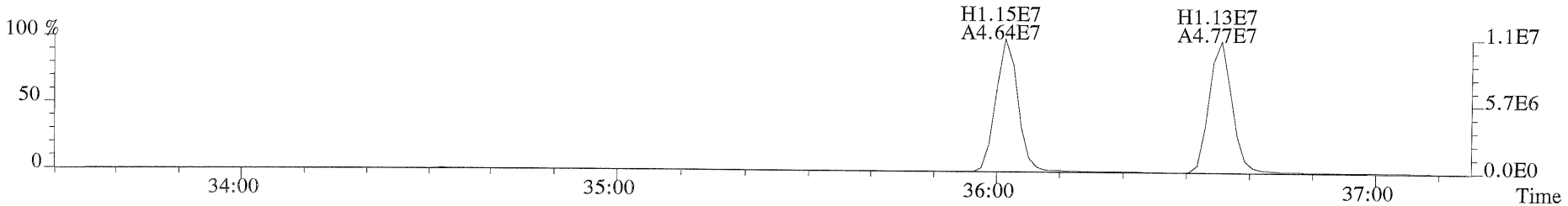
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



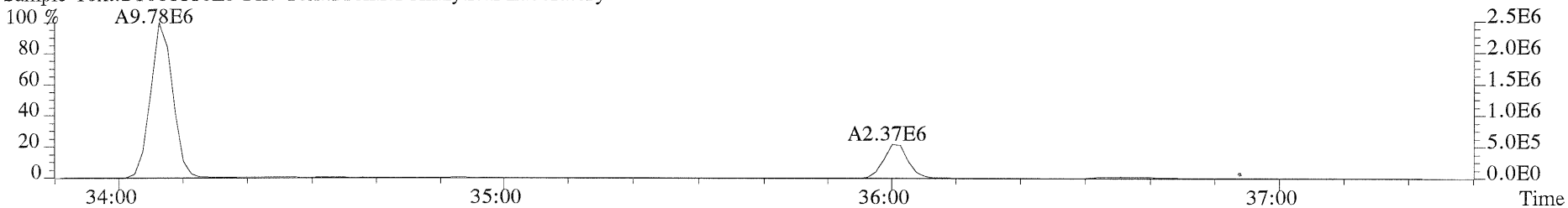
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



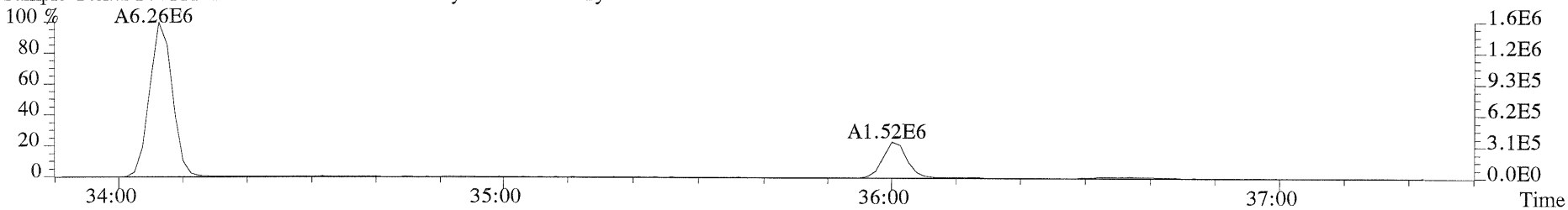
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



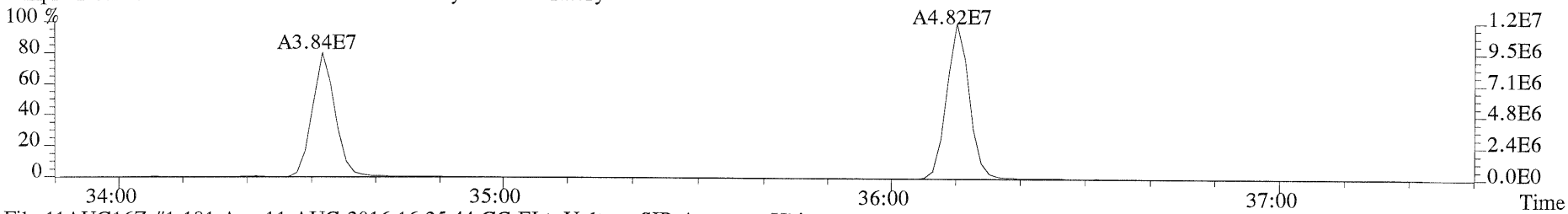
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



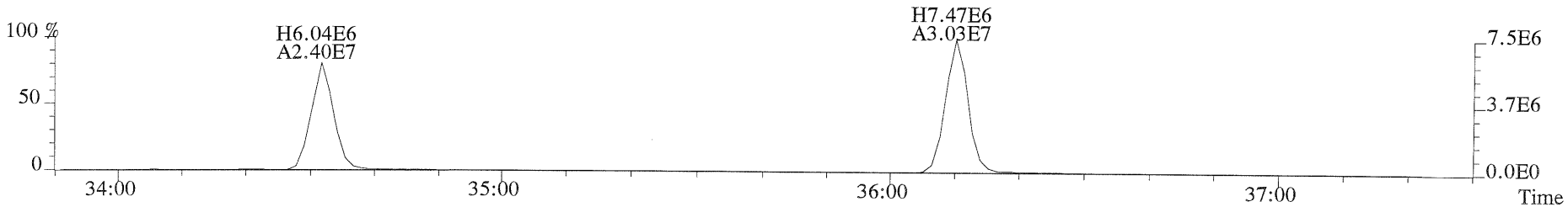
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



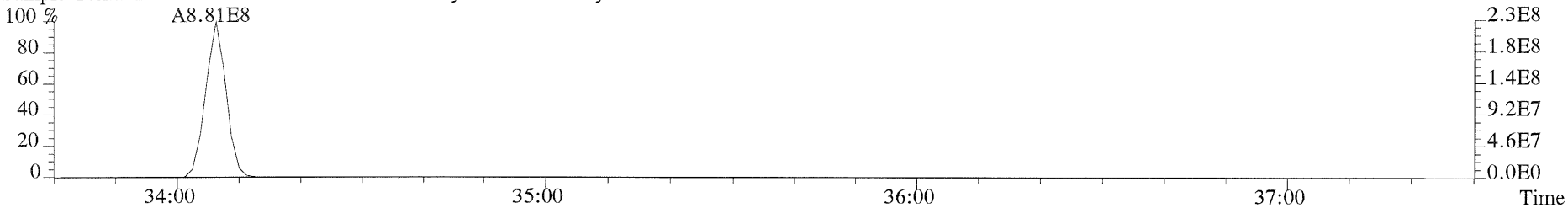
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



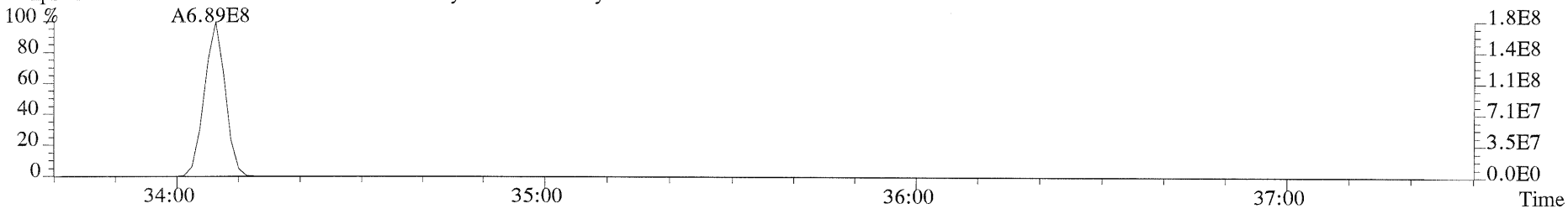
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



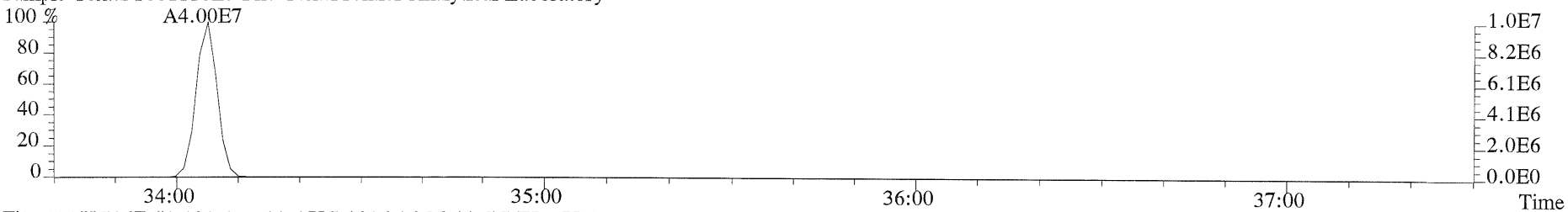
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



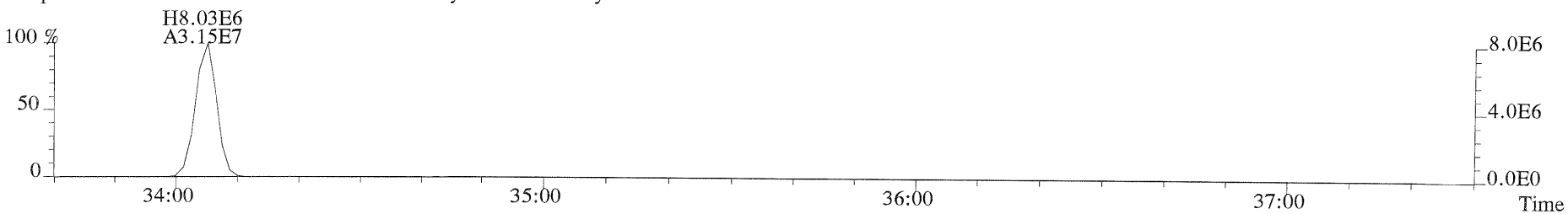
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



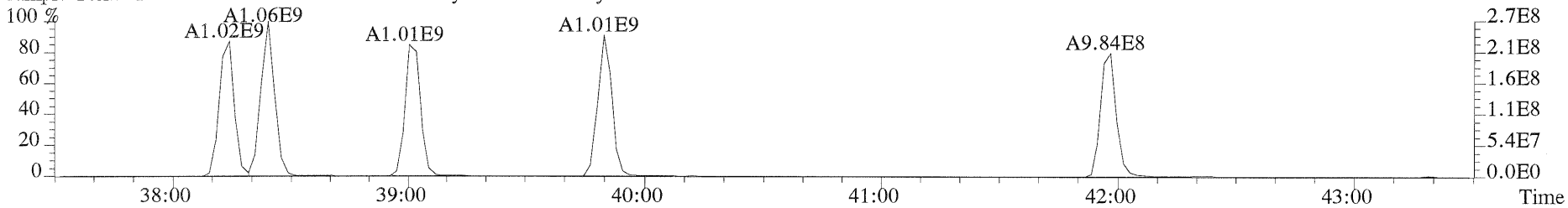
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



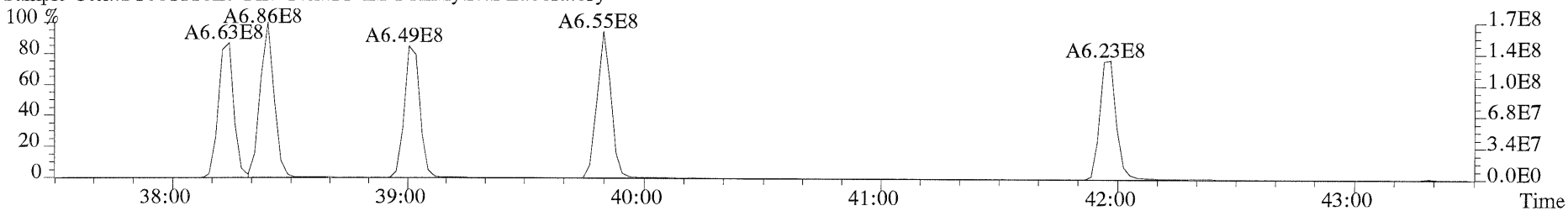
File:11AUG16Z #1-181 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



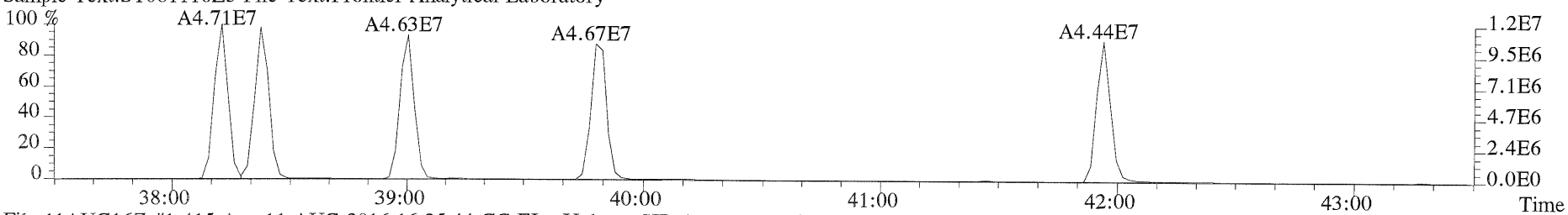
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



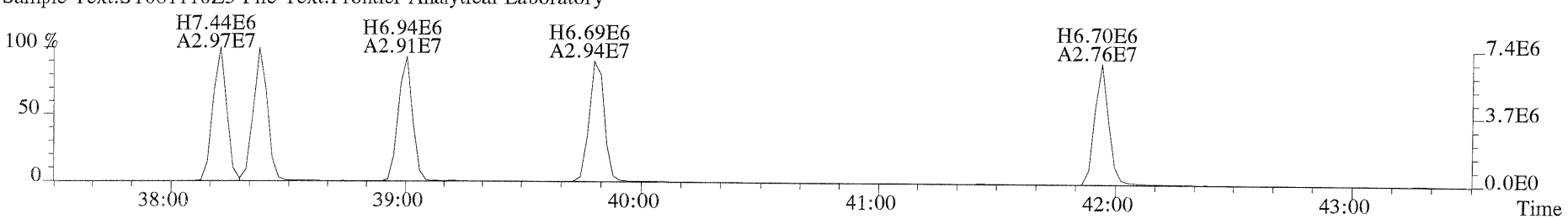
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



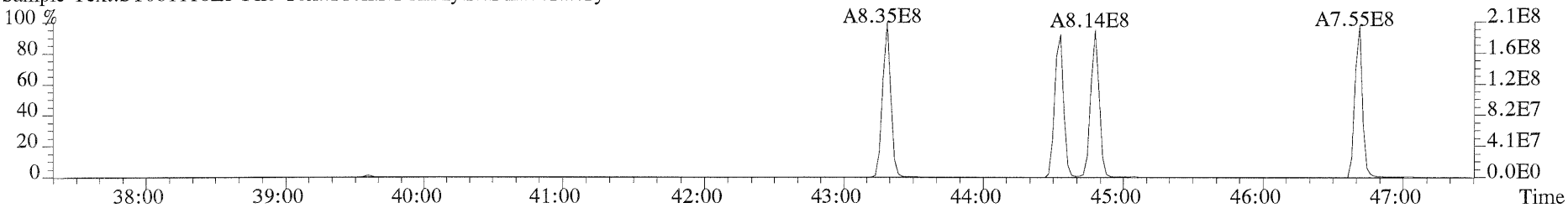
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



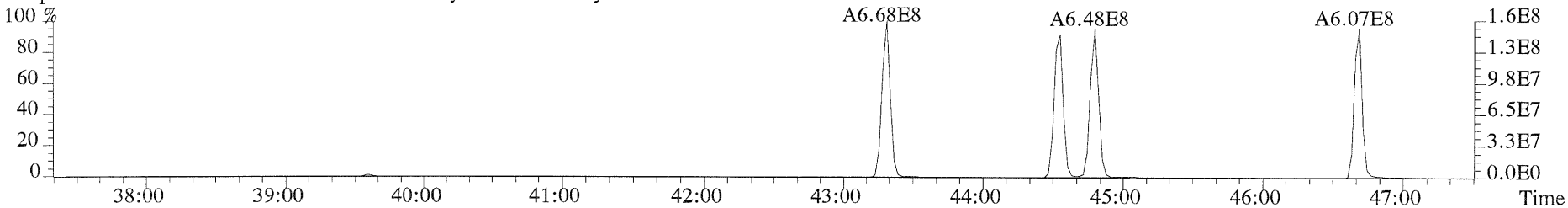
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



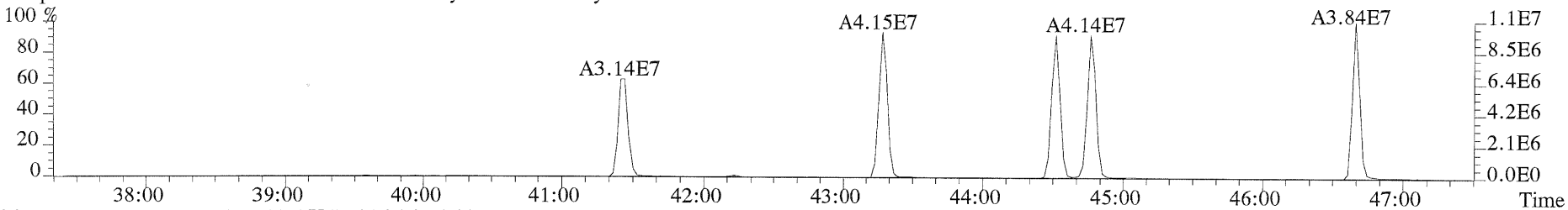
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



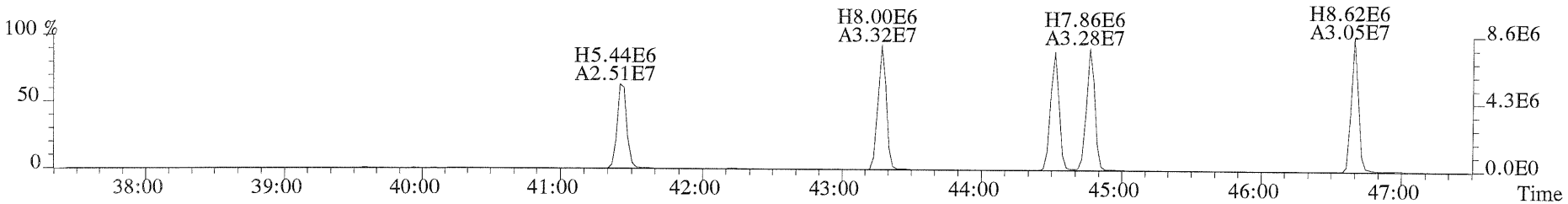
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



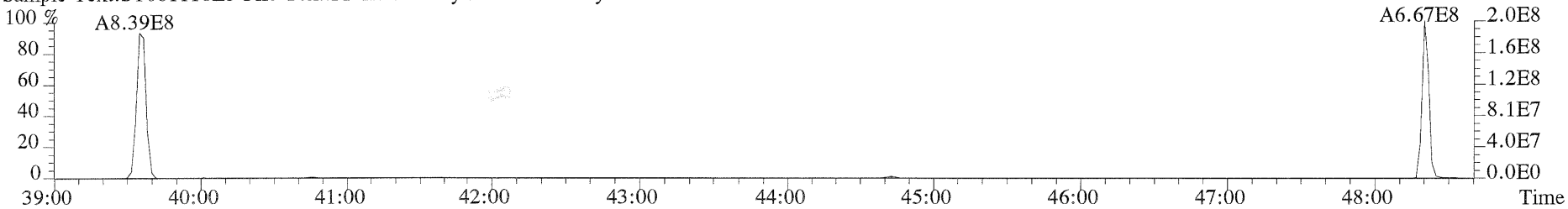
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



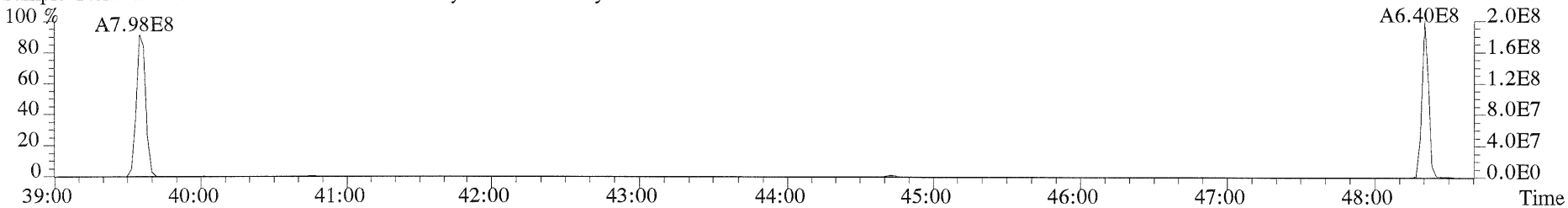
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



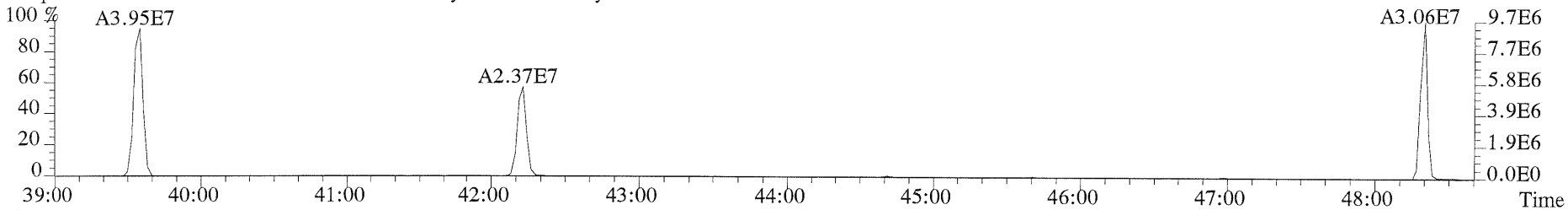
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



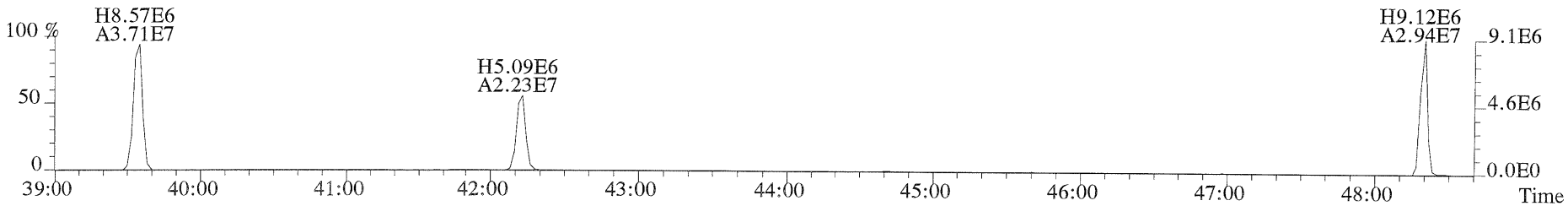
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



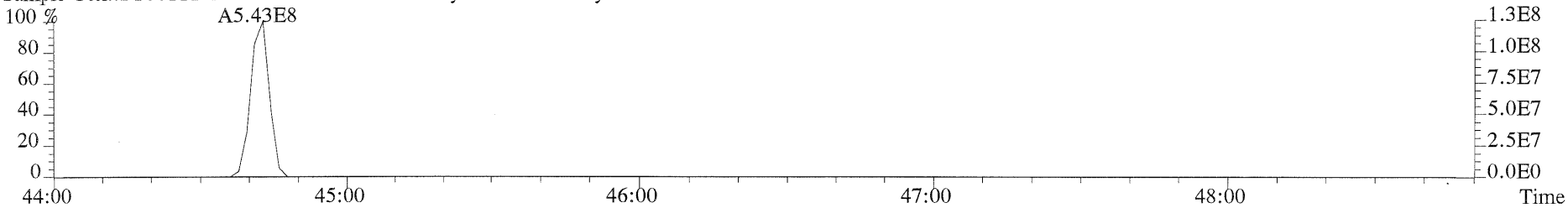
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



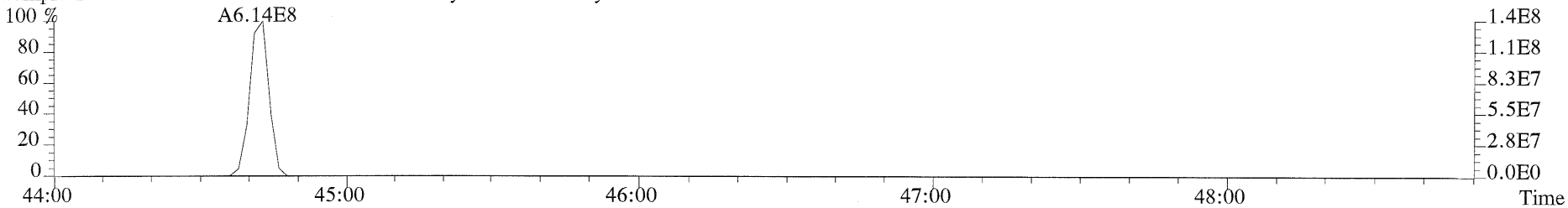
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



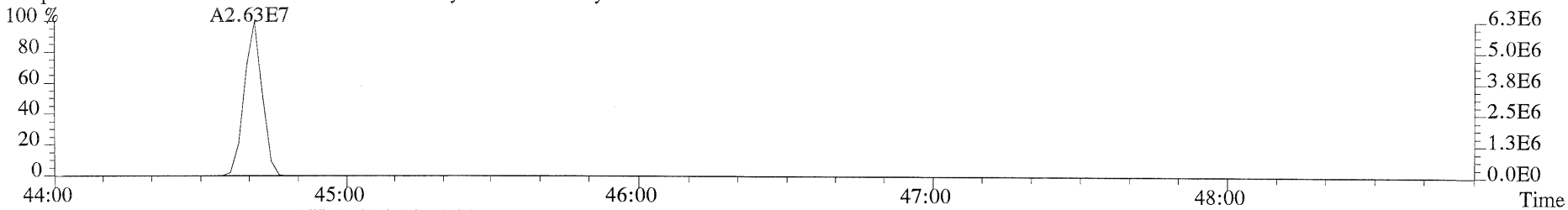
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



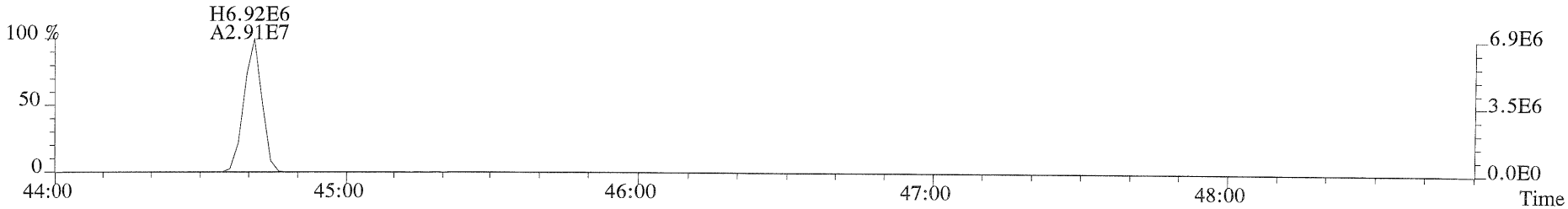
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



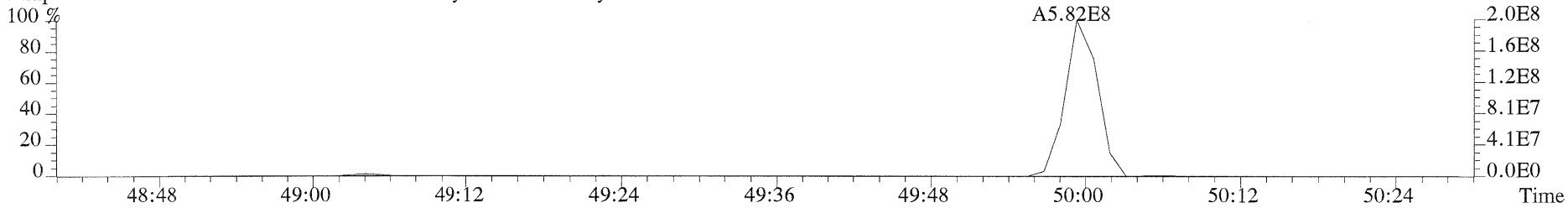
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



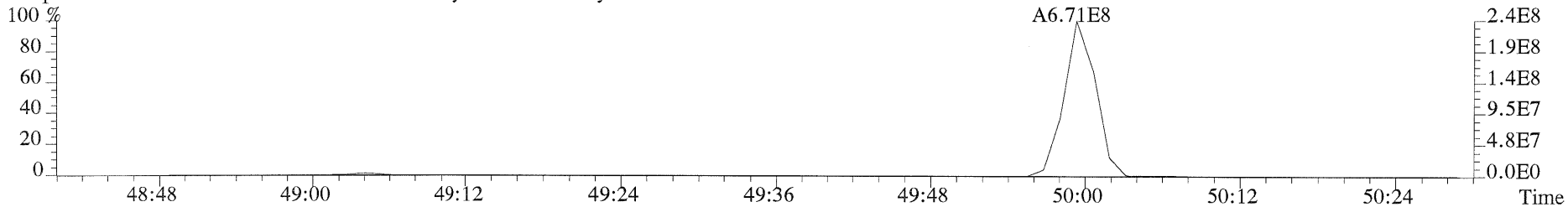
File:11AUG16Z #1-415 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



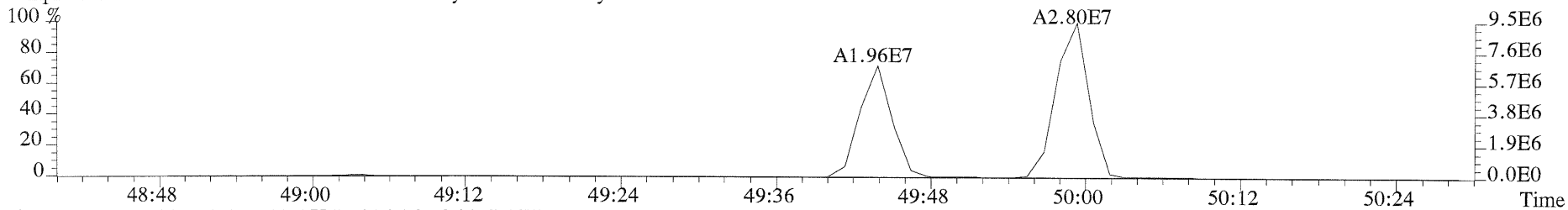
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



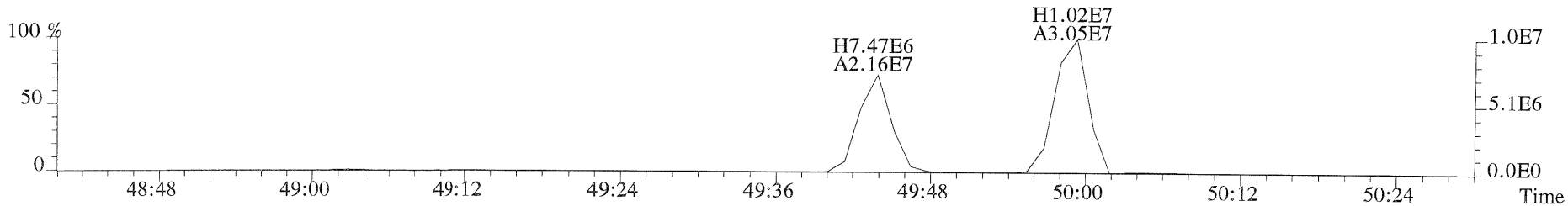
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



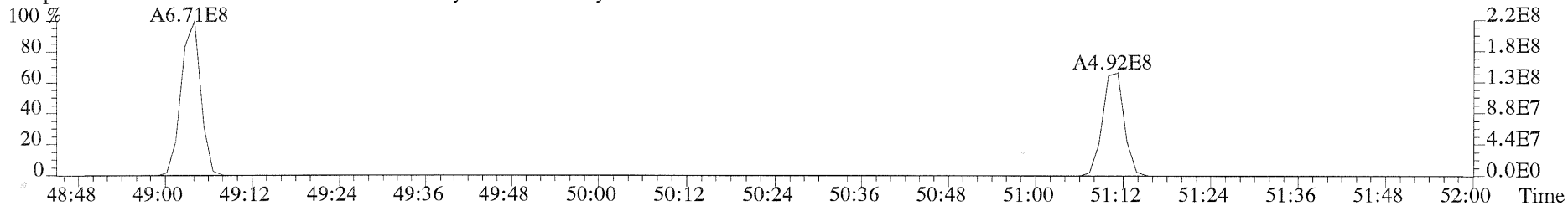
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



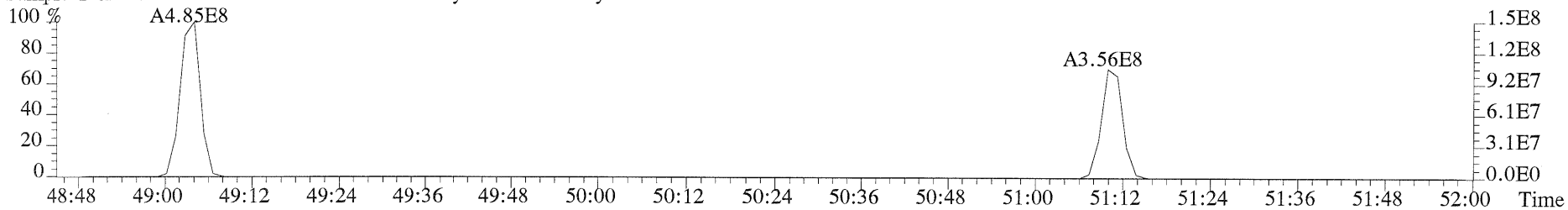
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



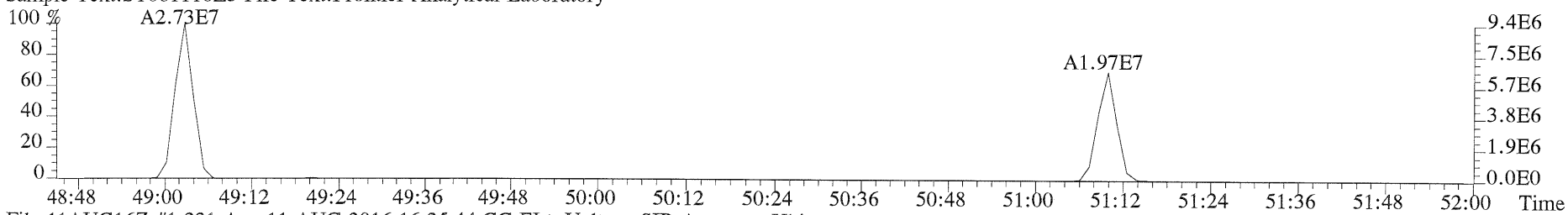
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



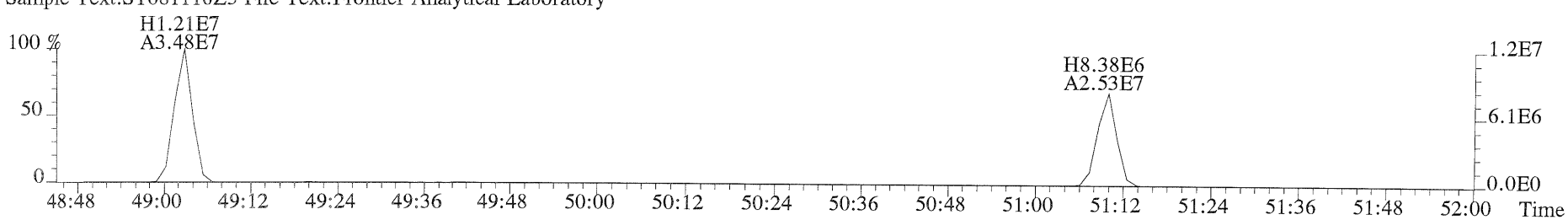
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



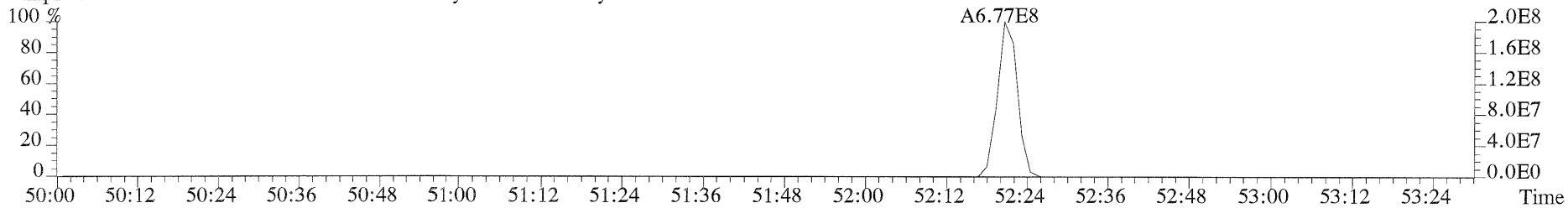
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



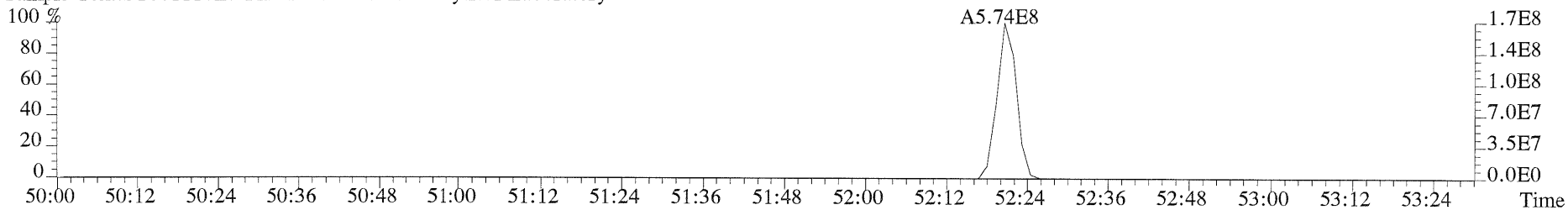
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory



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



File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 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:ST081116Z5 File Text:Frontier Analytical Laboratory



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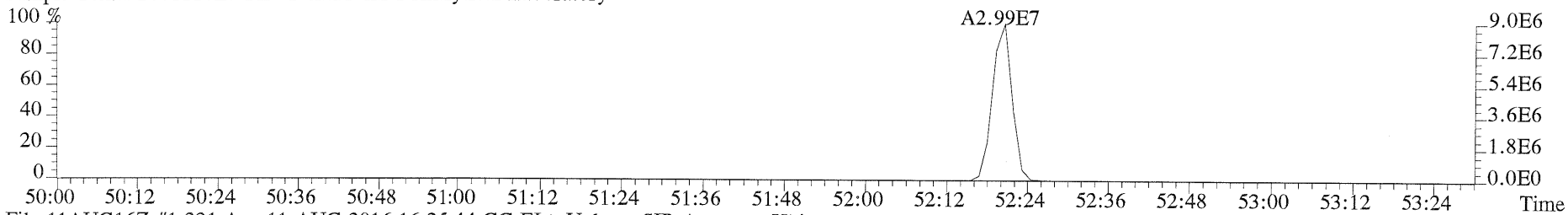
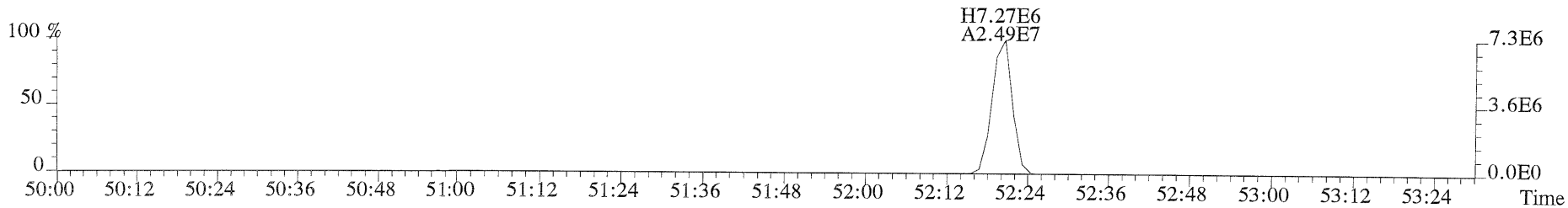
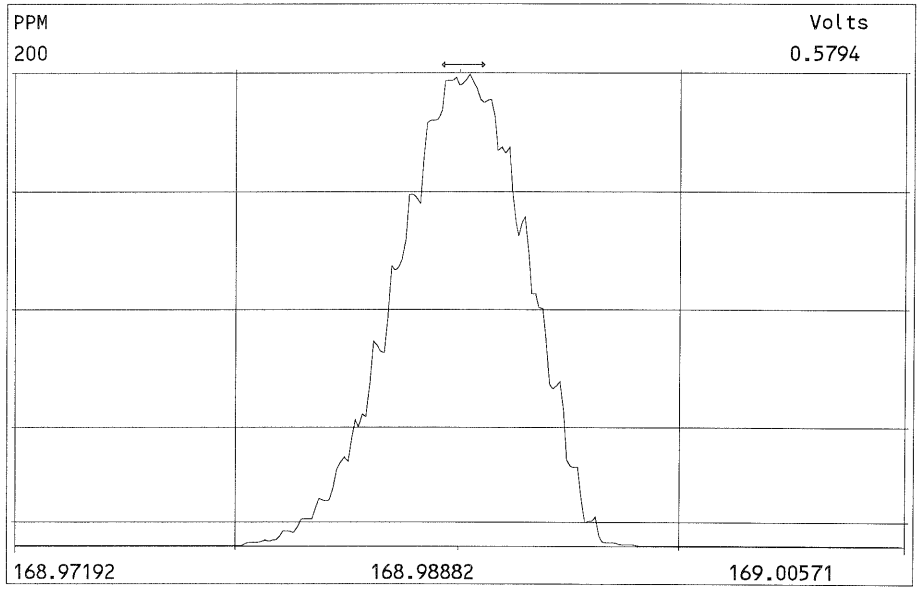
509.7229 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory

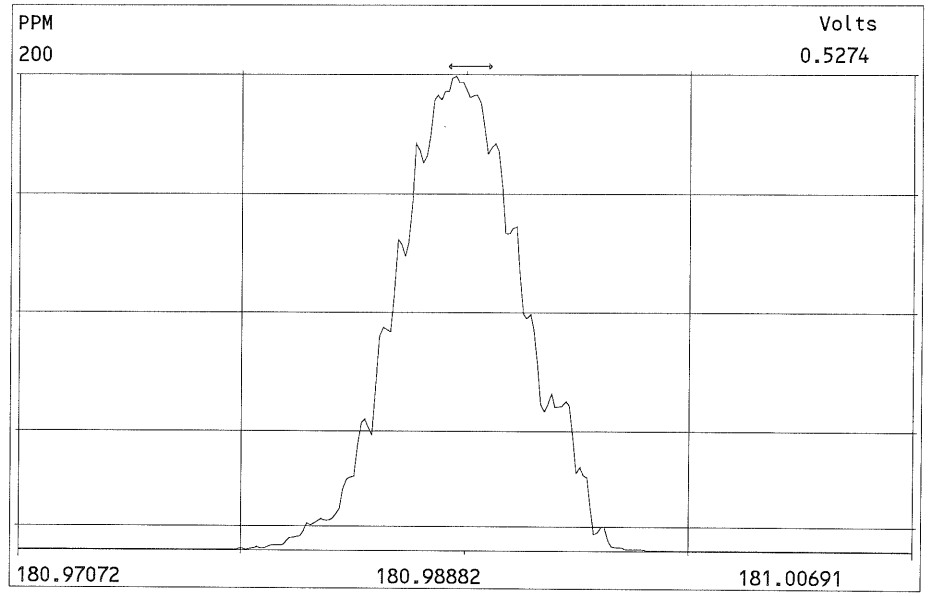


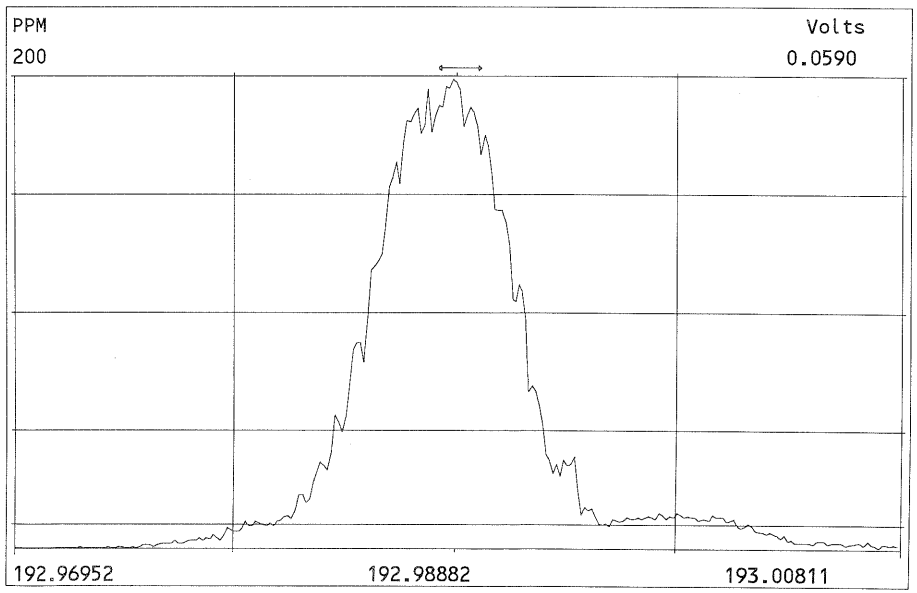
File:11AUG16Z #1-221 Acq:11-AUG-2016 16:25:44 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:6 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081116Z5 File Text:Frontier Analytical Laboratory

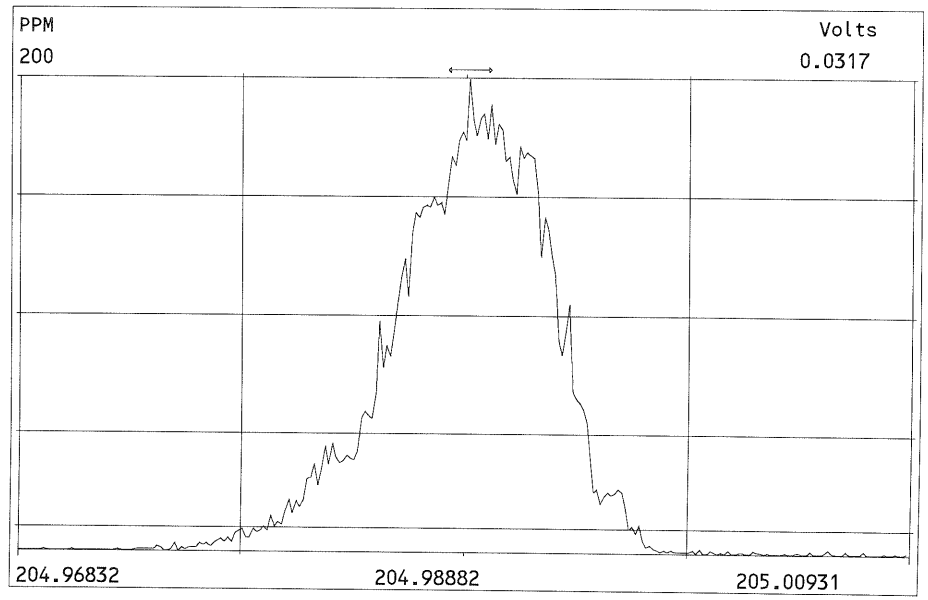


Peak Locate Examination:12-AUG-2016:07:42 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:1 Reference:PFK

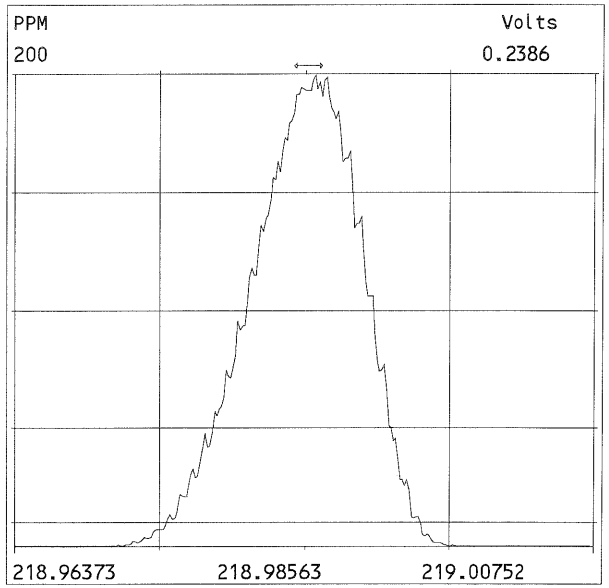


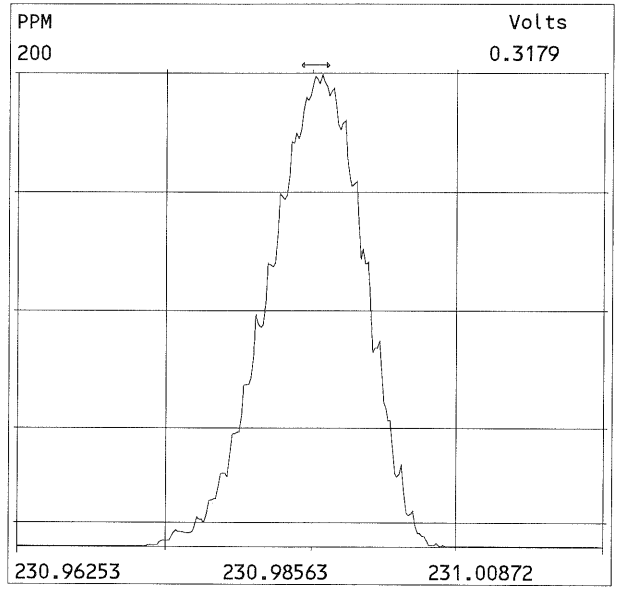


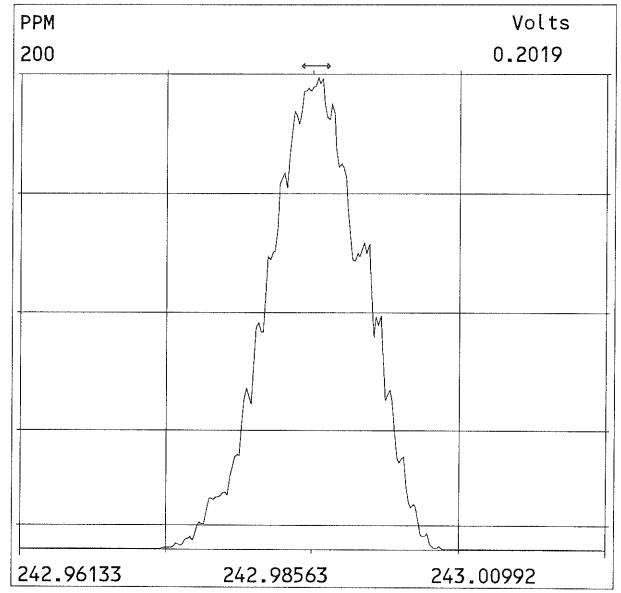


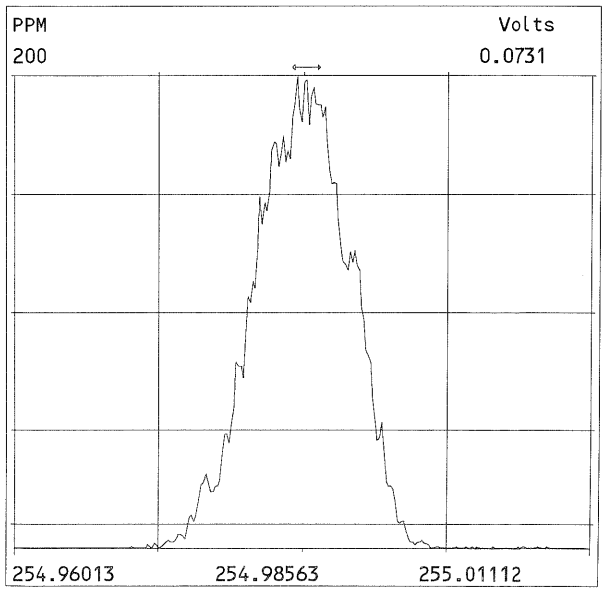


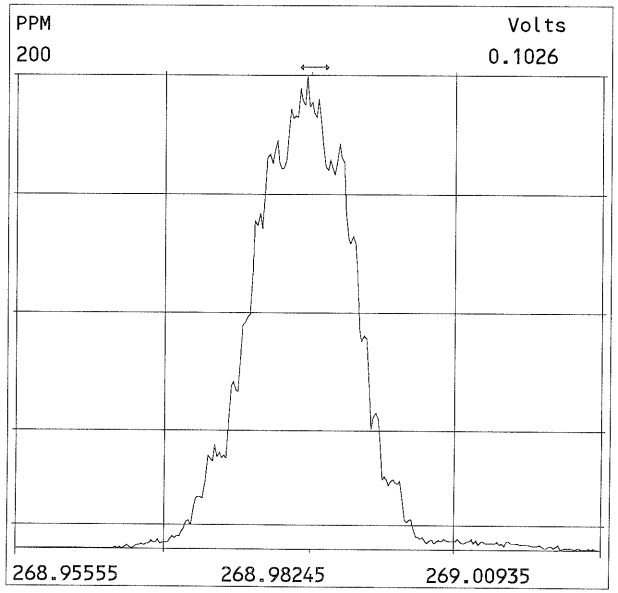
Peak Locate Examination:12-AUG-2016:07:42 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:2 Reference:PFK

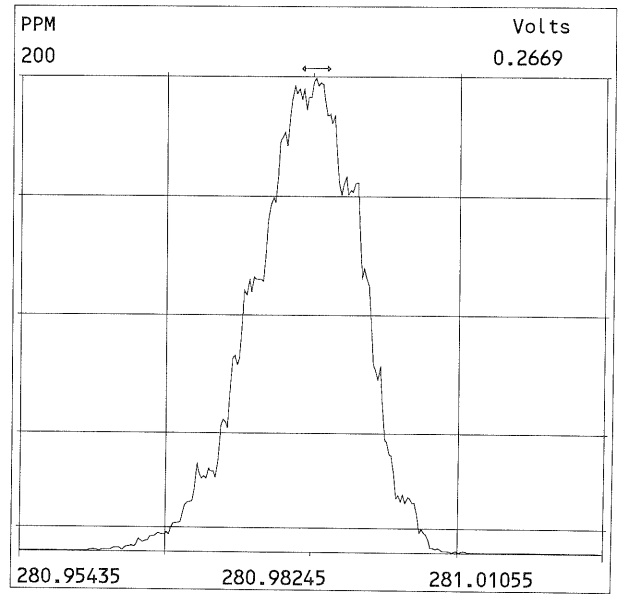




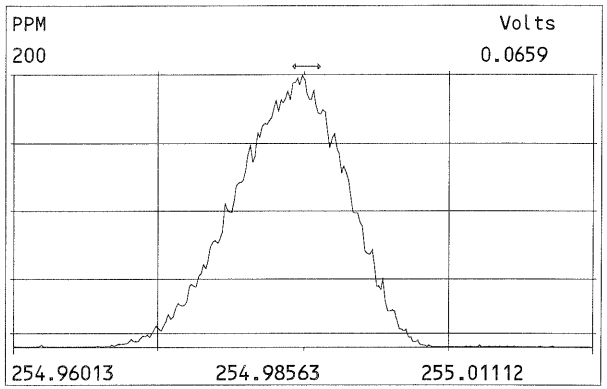


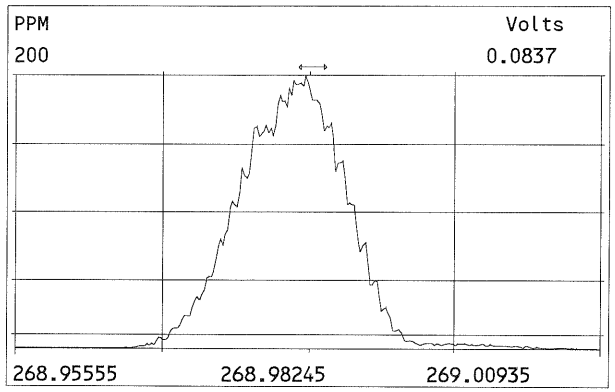


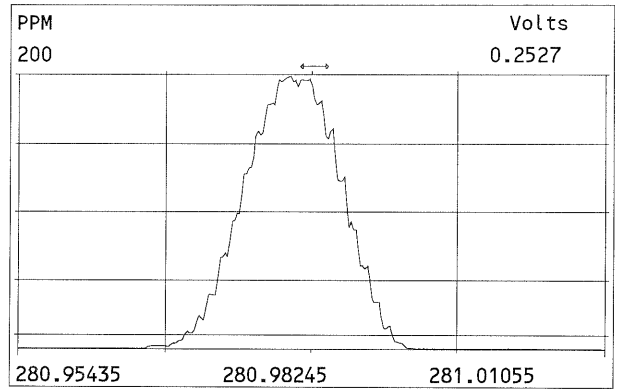


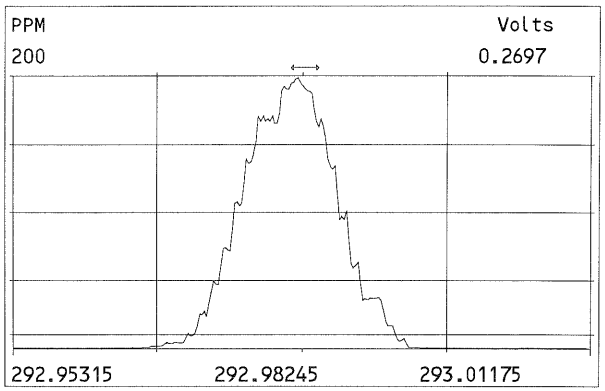


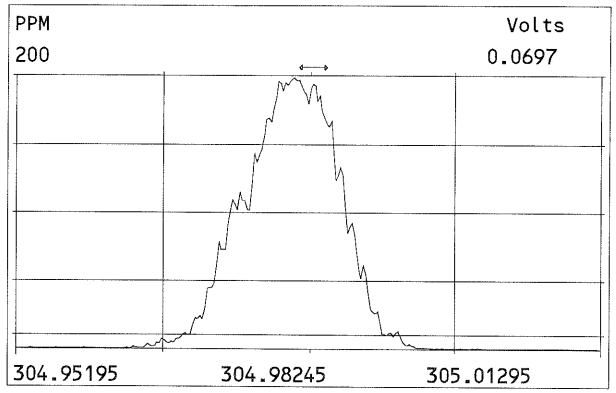
Peak Locate Examination:12-AUG-2016:07:43 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:3 Reference:PFK

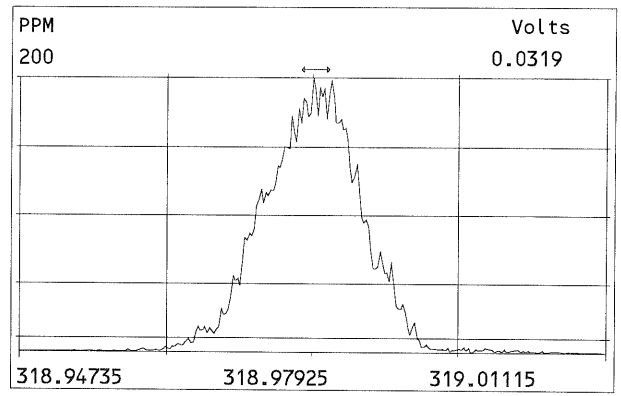


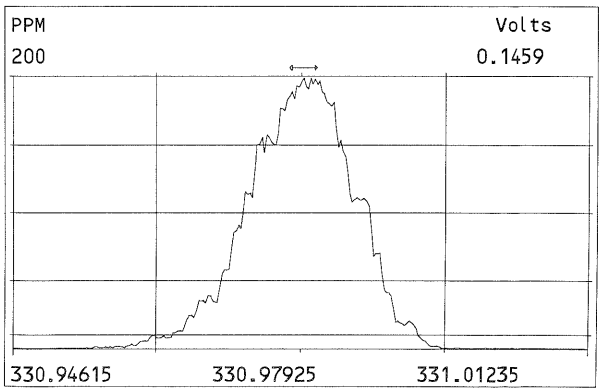


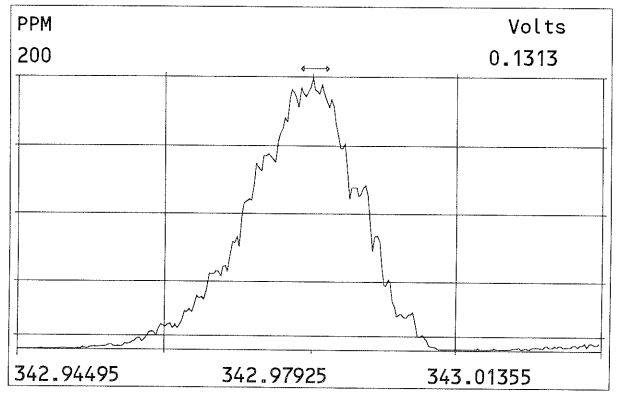




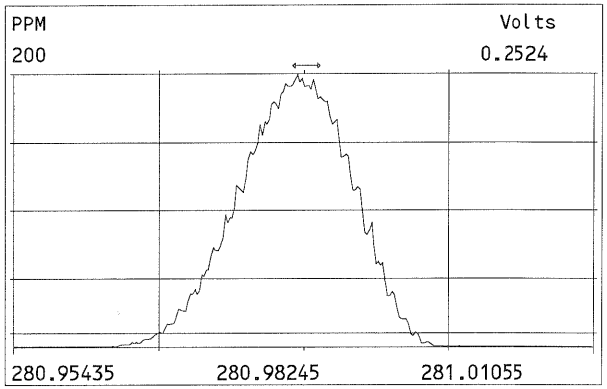


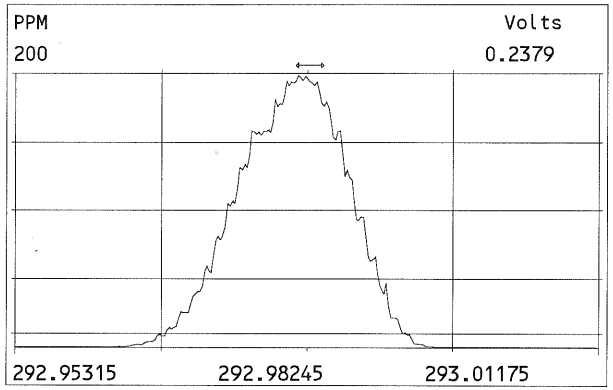


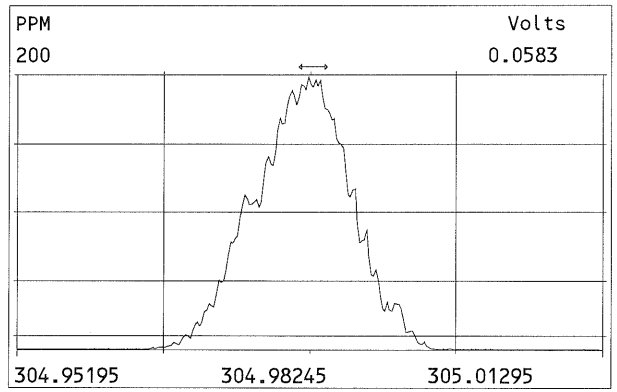


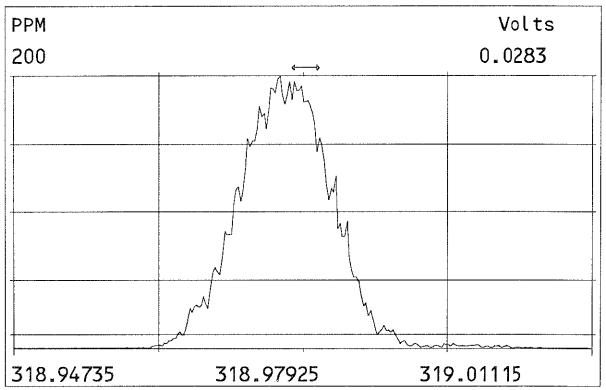


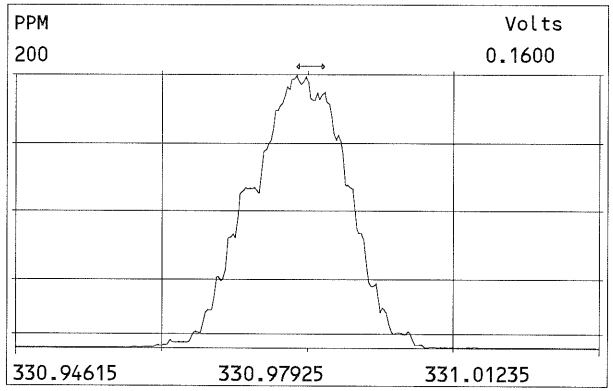
Peak Locate Examination:12-AUG-2016:07:43 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:4 Reference:PFK

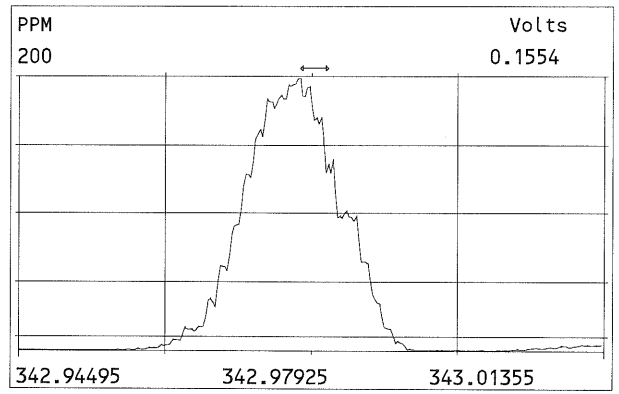


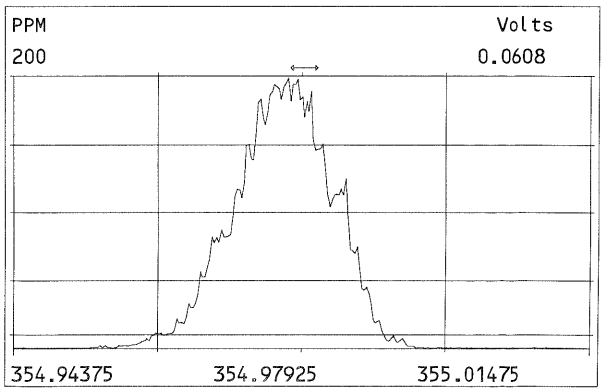


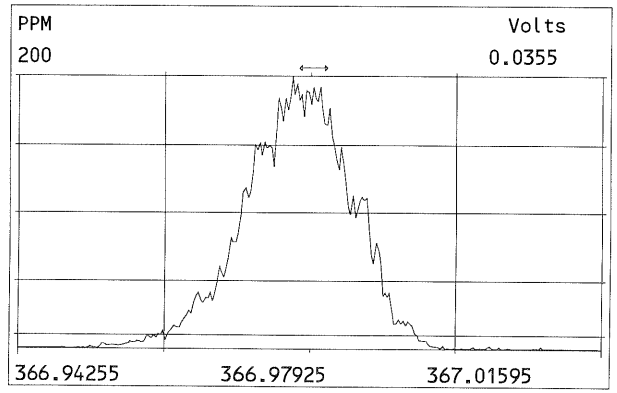


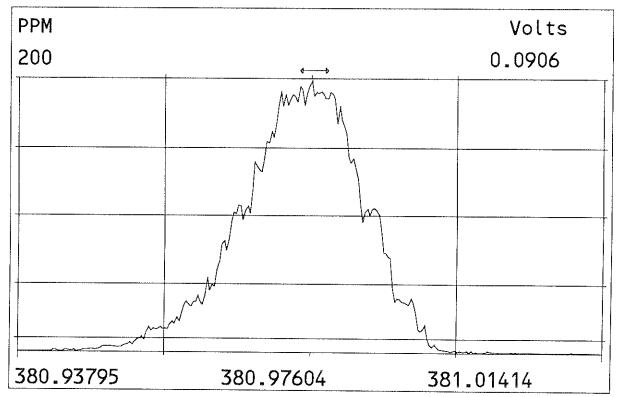




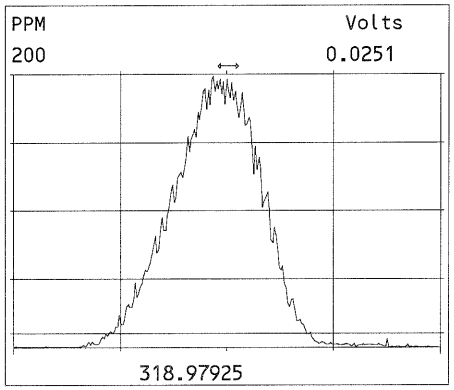


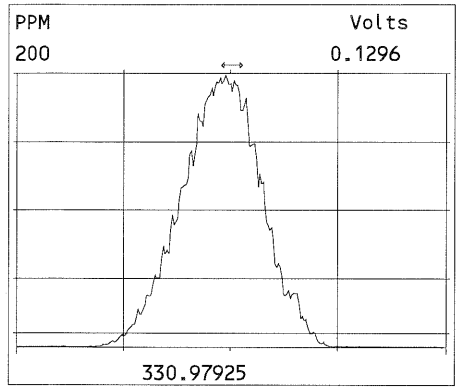


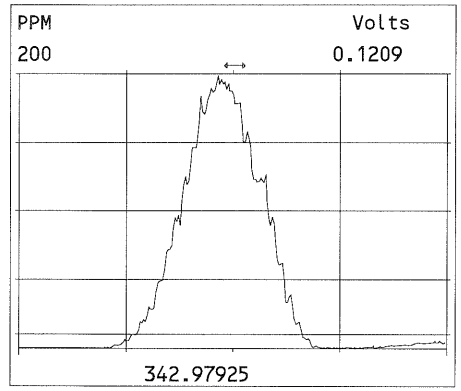


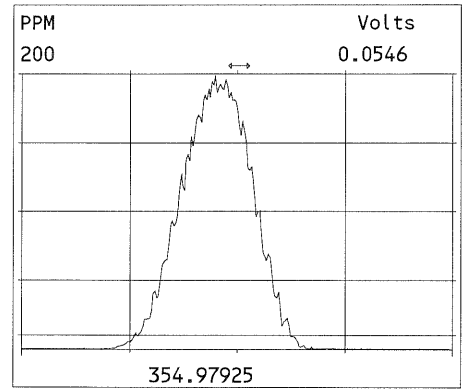


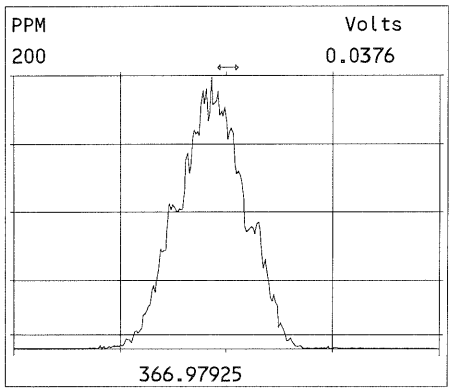
Peak Locate Examination:12-AUG-2016:07:44 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:5 Reference:PFK

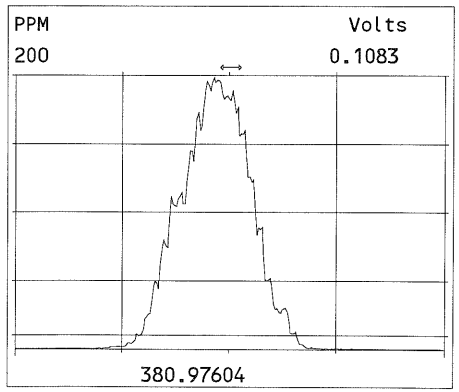


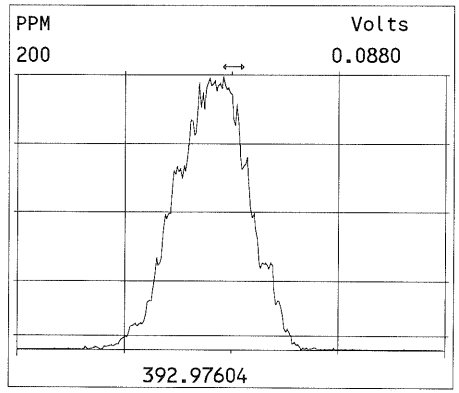


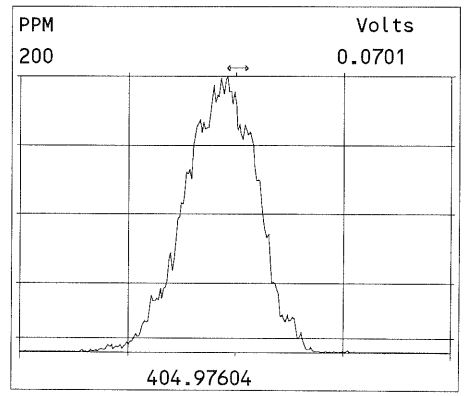


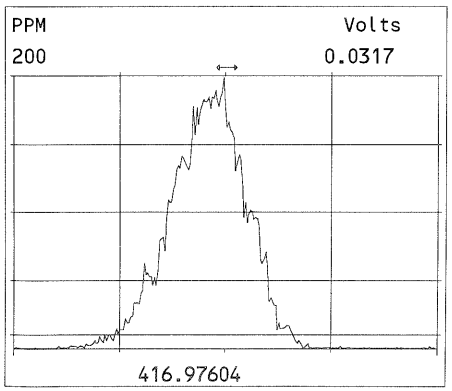


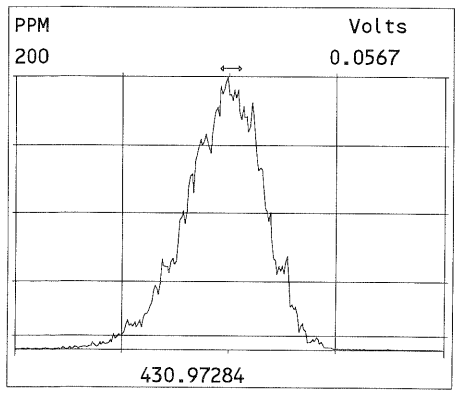


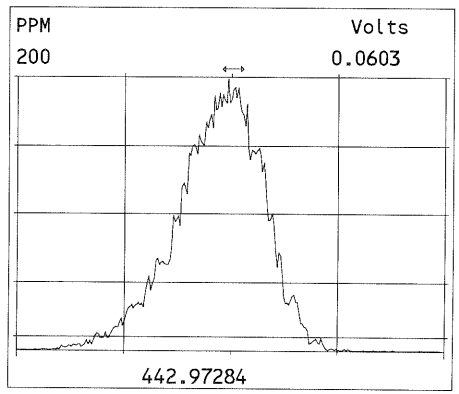




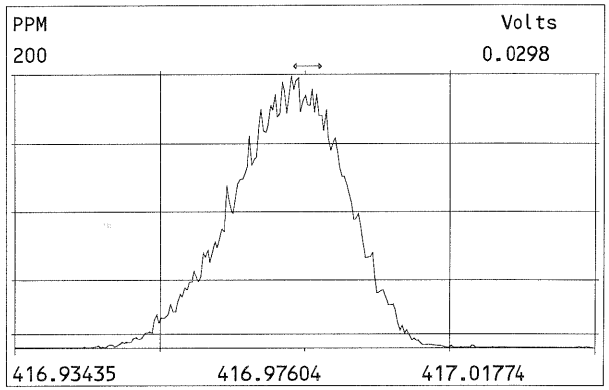


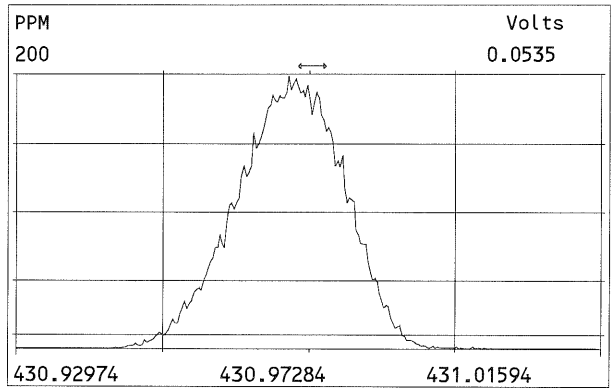


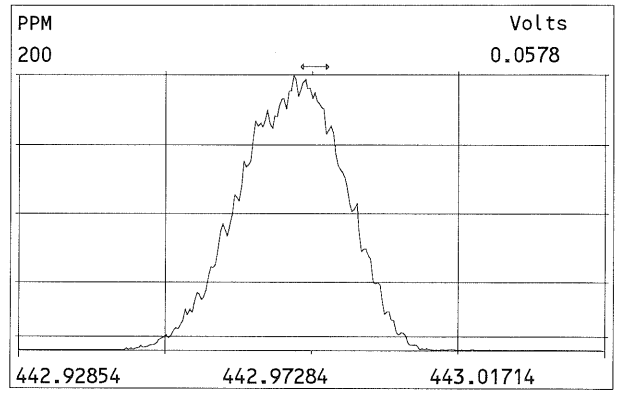


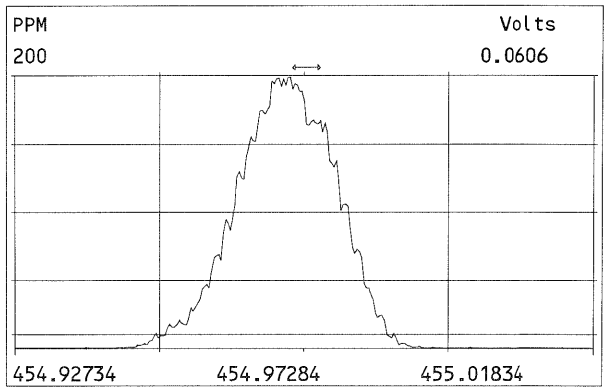


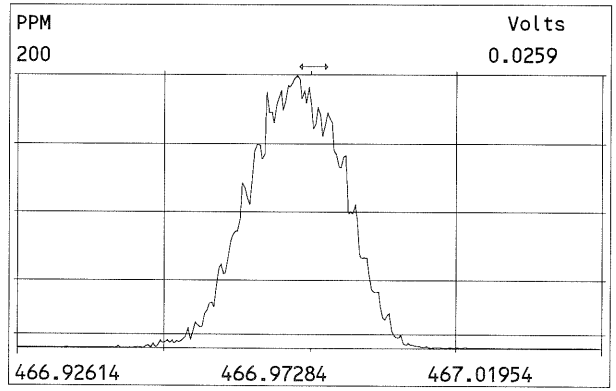
Peak Locate Examination:12-AUG-2016:07:44 File:11AUG16Z_RES_CHECK_PFK02
Experiment:1668PCB Function:6 Reference:PFK

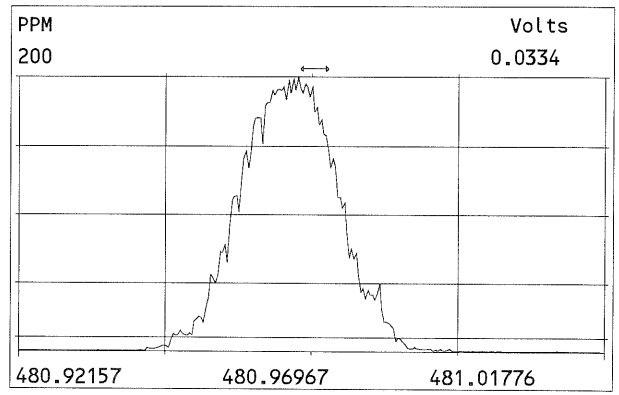


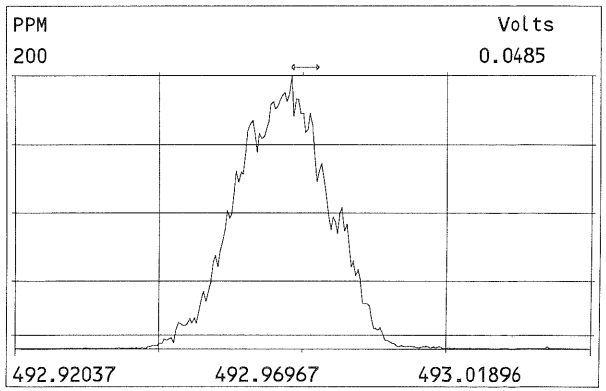


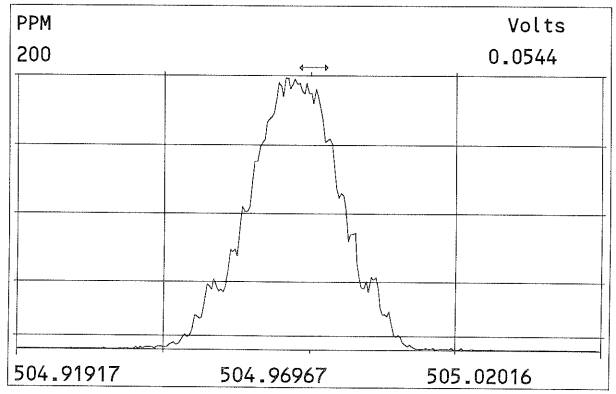


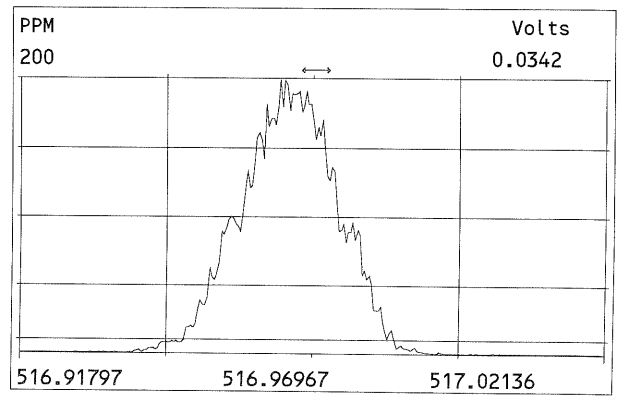












USEPA - ITD

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: DB1

VER Data Filename: 18AUG16Z Sam:1 Analysis Date: 18-AUG-16 16:50:51

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.21	2.66-3.60	y	48.4	37.5 - 62.5
PCB-3	M/M+2	3.21	2.66-3.60	y	47.8	37.5 - 62.5
PCB-4	M/M+2	1.58	1.33-1.79	y	49.9	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	48.9	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	46.3	37.5 - 62.5
PCB-37	M/M+2	1.03	0.88-1.20	y	49.4	37.5 - 62.5
PCB-54	M/M+2	0.77	0.65-0.89	y	49.4	37.5 - 62.5
PCB-77	M/M+2	0.78	0.65-0.89	y	48.8	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	49.9	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	45.8	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	49.4	37.5 - 62.5
PCB-114	M+2/M+4	1.52	1.32-1.78	y	49.2	37.5 - 62.5
PCB-118	M+2/M+4	1.50	1.32-1.78	y	51.3	37.5 - 62.5
PCB-123	M+2/M+4	1.55	1.32-1.78	y	52.0	37.5 - 62.5
PCB-126	M+2/M+4	1.65	1.32-1.78	y	50.0	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	47.4	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	48.6	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	50.2	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	50.1	37.5 - 62.5
PCB-169	M+2/M+4	1.26	1.05-1.43	y	48.8	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	47.1	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	47.0	37.5 - 62.5
PCB-202	M+2/M+4	0.89	0.76-1.02	y	49.0	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	48.5	37.5 - 62.5
PCB-206	M+4/M+6	1.41	1.13-1.53	y	48.9	37.5 - 62.5
PCB-208	M+4/M+6	1.40	1.13-1.53	y	45.8	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	50.3	37.5 - 62.5

Analyst: _____ Date: 8/19/16

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: 18AUG16Z Sam:1 Analysis Date: 18-AUG-16 16:50:51

	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	3.06	2.66-3.60	y	103	50.0 - 145
13C-PCB-3	M/M+2	3.15	2.66-3.60	y	97.0	50.0 - 145
13C-PCB-4	M/M+2	1.61	1.33-1.79	y	97.1	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	86.2	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	103	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	87.0	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	105	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	86.4	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	83.5	50.0 - 145
13C-PCB-104	M+2/M+4	1.62	1.32-1.78	y	110	50.0 - 145
13C-PCB-105	M+2/M+4	1.63	1.32-1.78	y	93.2	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	90.5	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	90.8	50.0 - 145
13C-PCB-123	M+2/M+4	1.62	1.32-1.78	y	86.4	50.0 - 145
13C-PCB-126	M+2/M+4	1.58	1.32-1.78	y	81.4	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	108	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	92.0	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	93.1	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	93.0	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	83.3	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	115	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	91.0	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	114	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	96.2	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	105	50.0 - 145
13C-PCB-208	M+2/M+4	0.78	0.65-0.89	y	116	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	109	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	93.0	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	98.3	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	108	75.0 - 125

Analyst: [signature] Date: 8/19/16

FAL ID: ST081816Z1 Filename: 18AUG16Z Sam:1 Acquired: 18-AUG-16 16:50:51 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R150603A ConCal: ST081816Z1 EndCal: ST081816Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.37e+07	3.21 y	14:29	1.05	48.4		2.50	-	-	*	-
13C-PCB-1	8.59e+07	3.06 y	14:28	1.14	103		2.50				103
PCB-3	3.96e+07	3.21 y	16:56	1.05	47.8		2.50	-	-	*	-
13C-PCB-3	7.91e+07	3.15 y	16:55	1.11	97.0		2.50				97.0
PCB-4	2.74e+07	1.58 y	18:09	1.14	49.9		2.50	-	-	*	-
13C-PCB-4	4.83e+07	1.61 y	18:08	0.68	97.1		2.50				97.1
PCB-15	3.46e+07	1.55 y	23:43	1.09	48.9		2.50	-	-	*	-
13C-PCB-15	6.50e+07	1.60 y	23:42	1.02	86.2		2.50				86.2
PCB-19	2.50e+07	1.04 y	22:02	1.16	46.3		2.50	-	-	*	-
13C-PCB-19	4.66e+07	1.08 y	22:01	0.61	103		2.50				103
13C-PCB-9	7.36e+07	1.60 y	19:49	-	53.9		2.50				
PCB-37	2.95e+07	1.03 y	30:22	1.14	49.4		2.50	-	-	*	-
13C-PCB-37	5.23e+07	1.09 y	30:21	1.38	87.0		2.50				87.0
PCB-54	2.98e+07	0.77 y	25:33	1.05	49.4		2.50	-	-	*	-
13C-PCB-54	5.73e+07	0.80 y	25:32	1.25	105		2.50				105
PCB-104	2.30e+07	1.59 y	29:58	1.14	45.8		2.50	-	-	*	-
13C-PCB-104	4.39e+07	1.62 y	29:57	0.91	110		2.50				110
13C-PCB-28	6.03e+07	1.05 y	26:39	1.48	93.0		2.50				93.0
13C-PCB-52	4.37e+07	0.80 y	28:53	-	52.5		2.50				
PCB-81	2.33e+07	0.78 y	36:07	1.14	49.9		2.50	-	-	*	-
13C-PCB-81	4.08e+07	0.80 y	36:06	1.27	83.5		2.50				83.5
PCB-77	2.27e+07	0.78 y	36:41	1.10	48.8		2.50	-	-	*	-
13C-PCB-77	4.22e+07	0.80 y	36:40	1.27	86.4		2.50				86.4
PCB-155	2.38e+07	1.27 y	34:08	1.11	47.4		2.50	-	-	*	-
13C-PCB-155	4.53e+07	1.27 y	34:07	1.09	108		2.50				108
13C-PCB-111	4.74e+07	1.59 y	36:12	1.25	98.3		2.50				98.3
13C-PCB-101	3.85e+07	1.60 y	34:34	-	52.7		2.50				
PCB-123	1.91e+07	1.55 y	38:17	1.05	52.0		2.50	-	-	*	-
13C-PCB-123	3.48e+07	1.62 y	38:15	1.20	86.4		2.50				86.4
PCB-118	2.18e+07	1.50 y	38:27	1.07	51.3		2.50	-	-	*	-
13C-PCB-118	3.99e+07	1.61 y	38:25	1.31	90.8		2.50				90.8
PCB-114	1.99e+07	1.52 y	39:05	1.08	49.2		2.50	-	-	*	-
13C-PCB-114	3.74e+07	1.61 y	39:03	1.23	90.5		2.50				90.5
PCB-105	2.06e+07	1.54 y	39:52	1.08	49.4		2.50	-	-	*	-
13C-PCB-105	3.87e+07	1.63 y	39:52	1.24	93.2		2.50				93.2
PCB-126	1.71e+07	1.65 y	42:03	1.07	50.0		2.50	-	-	*	-
13C-PCB-126	3.20e+07	1.58 y	42:01	1.17	81.4		2.50				81.4
PCB-167	1.89e+07	1.25 y	43:22	0.98	50.1		2.50	-	-	*	-
13C-PCB-167	3.86e+07	1.26 y	43:20	1.24	93.0		2.50				93.0
PCB-156	1.79e+07	1.26 y	44:36	1.01	48.6		2.50	-	-	*	-
13C-PCB-156	3.64e+07	1.28 y	44:34	1.18	92.0		2.50				92.0
PCB-157	1.84e+07	1.25 y	44:50	0.96	50.2		2.50	-	-	*	-
13C-PCB-157	3.82e+07	1.27 y	44:49	1.22	93.1		2.50				93.1
PCB-169	1.51e+07	1.26 y	46:44	1.00	48.8		2.50	-	-	*	-
13C-PCB-169	3.09e+07	1.25 y	46:44	1.11	83.3		2.50				83.3
PCB-188	2.44e+07	1.05 y	39:38	1.09	47.1		2.50	-	-	*	-
13C-PCB-188	4.73e+07	1.08 y	39:36	1.22	115		2.50				115
PCB-189	1.58e+07	1.07 y	48:23	1.14	47.0		2.50	-	-	*	-
13C-PCB-189	2.96e+07	1.08 y	48:23	0.97	91.0		2.50				91.0
PCB-202	1.73e+07	0.89 y	44:44	1.05	49.0		2.50	-	-	*	-
13C-PCB-202	3.34e+07	0.92 y	44:42	0.88	114		2.50				114
13C-PCB-178	2.79e+07	1.05 y	42:16	0.77	108		2.50				108
13C-PCB-138	3.35e+07	1.28 y	41:28	-	48.0		2.50				

FAL ID: ST081816Z1 Filename: 18AUG16Z Sam:1 Acquired: 18-AUG-16 16:50:51 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R150603A ConCal: ST081816Z1 EndCal: ST081816Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	1.44e+07	0.88 y	50:01	1.02	48.5	2.50	-	-	*	-
13C-PCB-205	2.92e+07	0.89 y	50:01	1.38	96.2	2.50				96.2
PCB-208	1.42e+07	1.40 y	49:06	0.93	45.8	2.50	-	-	*	-
13C-PCB-208	3.34e+07	0.78 y	49:05	1.31	116	2.50				116
PCB-206	1.07e+07	1.41 y	51:13	0.94	48.9	2.50	-	-	*	-
13C-PCB-206	2.33e+07	0.78 y	51:12	1.01	105	2.50				105
PCB-209	1.77e+07	1.19 y	52:24	1.10	50.3	2.50	-	-	*	-
13C-PCB-209	3.19e+07	1.19 y	52:23	1.34	109	2.50				109
13C-PCB-194	2.20e+07	0.91 y	49:46	-	43.6	2.50				

Analyst: _____ Date: 8/19/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:18AUG16Z Instrument: FAL4 GC: DB1 Experiment:1668PCB

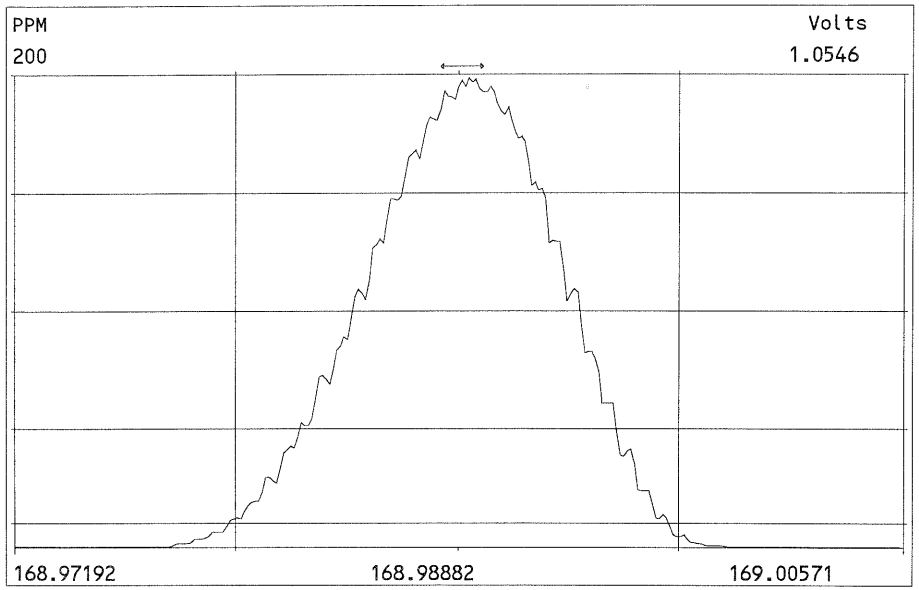
Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
18AUG16Z	1	ST081816Z1	1668 CS3 R150603A	18-AUG-16 16:50:51	ST081816Z1	ST081816Z2	BS
18AUG16Z	2	SS081816Z1	Daily 209 160711B	18-AUG-16 17:50:51	ST081816Z1	ST081816Z2	BS
18AUG16Z	3	03814-001-0001-OPR	OPR	18-AUG-16 18:50:50	ST081816Z1	ST081816Z2	BS
18AUG16Z	4	03814-001-0001-MB	Method Blank	18-AUG-16 19:50:48	ST081816Z1	ST081816Z2	BS
18AUG16Z	5	10051-001-X002-SA	LDW-BA-PC-ENRMATERIAL-GAC	18-AUG-16 20:50:46	ST081816Z1	ST081816Z2	BS
18AUG16Z	6	10095-001-0001-SA	LDW-BA-PC-ENRMAT-SAND	18-AUG-16 21:50:41	ST081816Z1	ST081816Z2	BS
18AUG16Z	7	10095-002-0001-SA	LDW-BA-PC-ENRMAT-GRUSAND	18-AUG-16 22:50:38	ST081816Z1	ST081816Z2	BS
18AUG16Z	8	QC081816Z1	QCA	18-AUG-16 23:50:35	ST081816Z1	ST081816Z2	BS
18AUG16Z	9	03816-001-0001-OPR	OPR	19-AUG-16 00:50:32	ST081816Z1	ST081816Z2	BS
18AUG16Z	10	03816-001-0001-MB	Method Blank	19-AUG-16 01:50:28	ST081816Z1	ST081816Z2	BS
18AUG16Z	11	10051-001-X003-SA	LDW-BA-PC-ENRMATERIAL-GAC	19-AUG-16 02:50:24	ST081816Z1	ST081816Z2	BS
18AUG16Z	12	SB081816Z1	Solvent Blank	19-AUG-16 03:50:20	ST081816Z1	ST081816Z2	BS
18AUG16Z	13	SB081816Z2	Solvent Blank	19-AUG-16 04:50:13	ST081816Z1	ST081816Z2	BS
18AUG16Z	14	ST081816Z2	1668 CS3 R150603A	19-AUG-16 05:50:06	ST081816Z1	ST081816Z2	BS

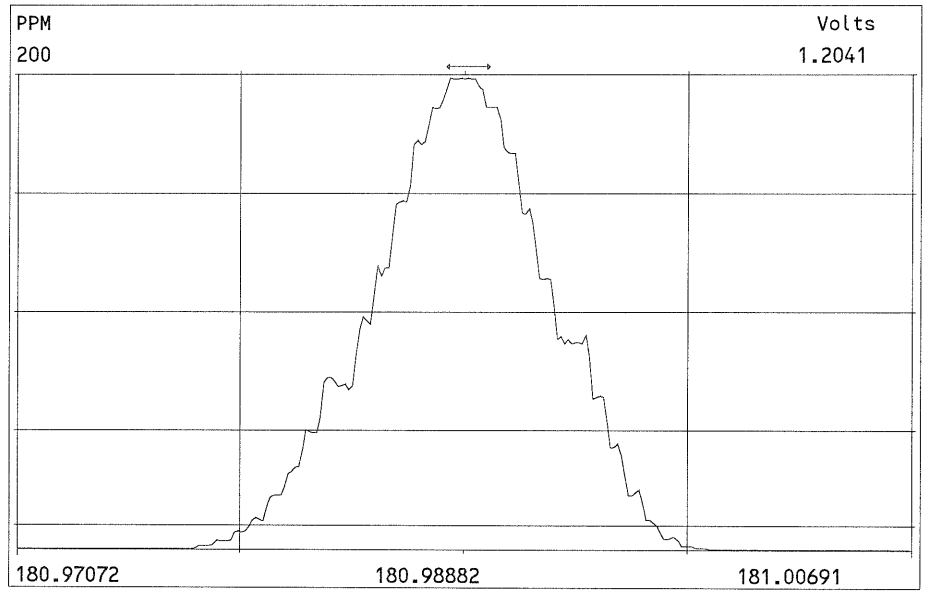
B 8/19/16

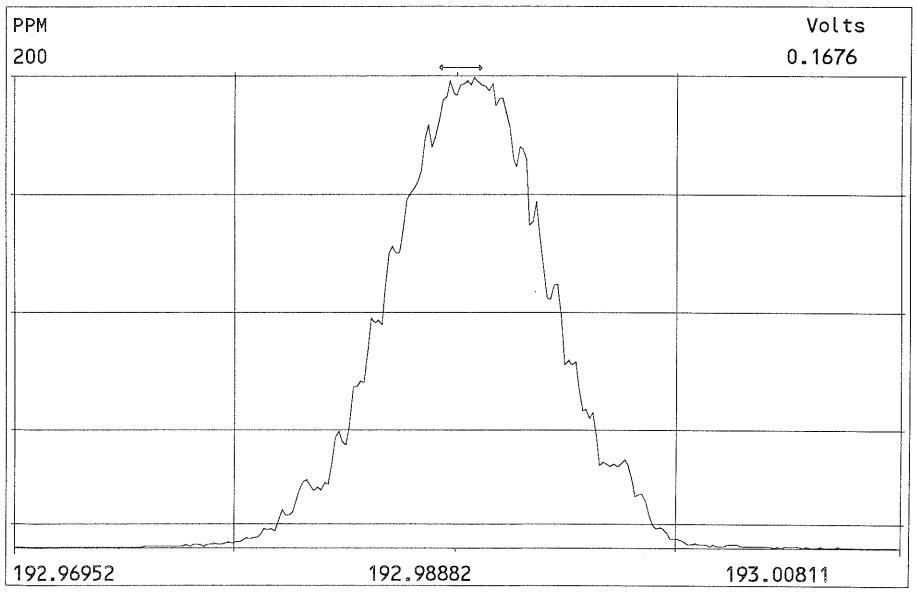
Data Backed Up:_____

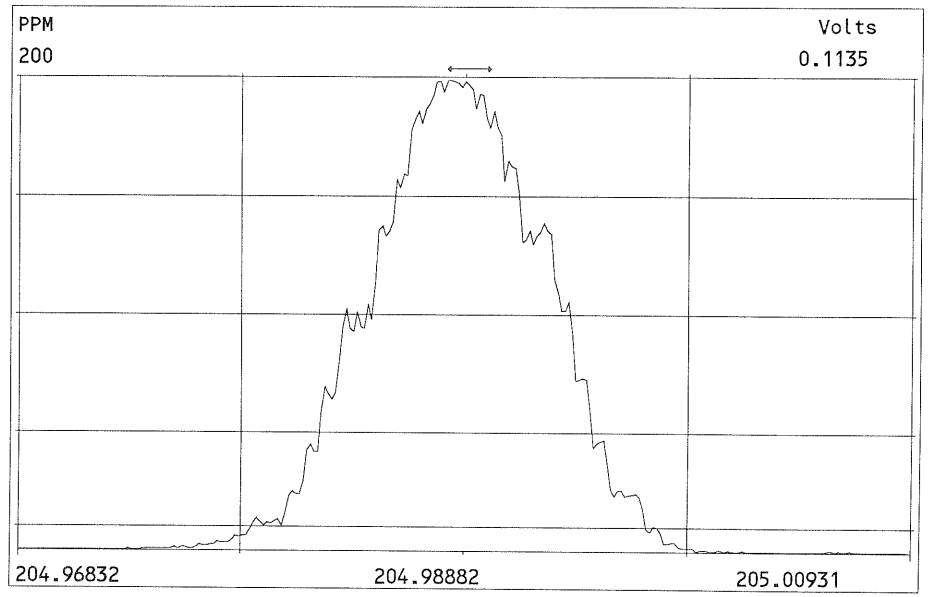
Date:_____

Peak Locate Examination:18-AUG-2016:16:47 File:18AUG16Z
Experiment:1668PCB Function:1 Reference:PFK

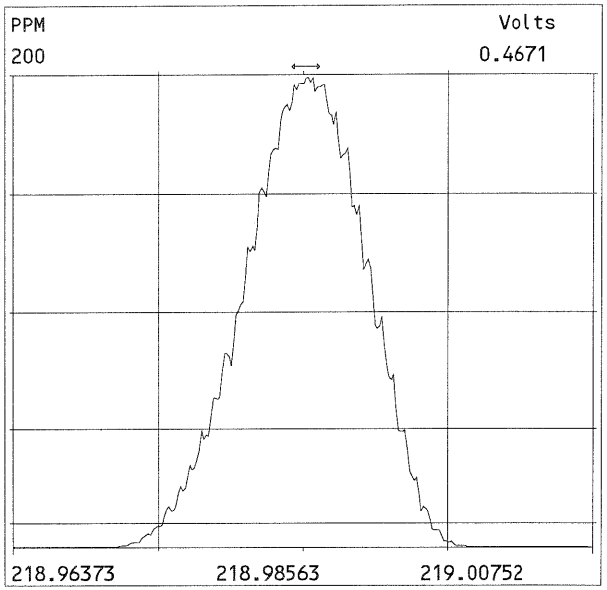


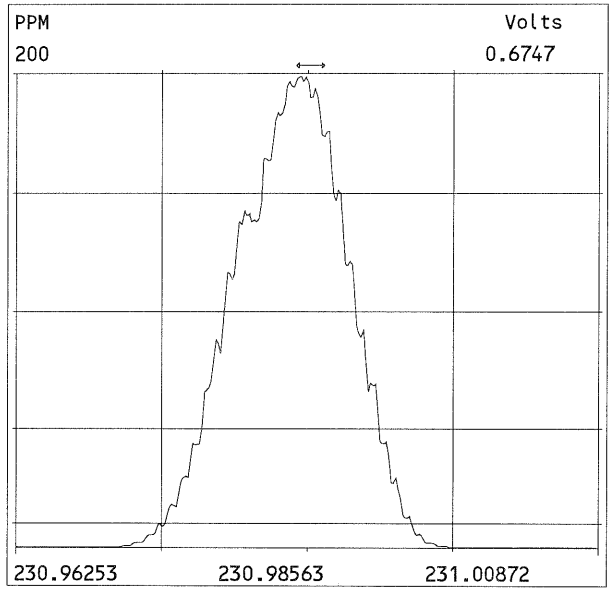


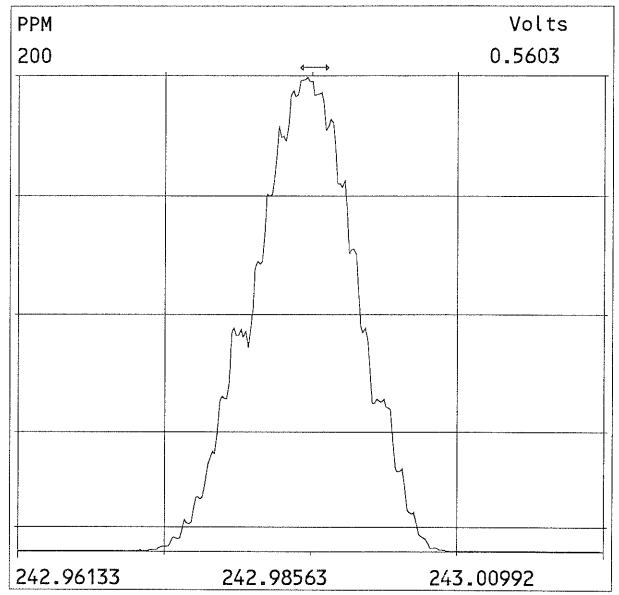


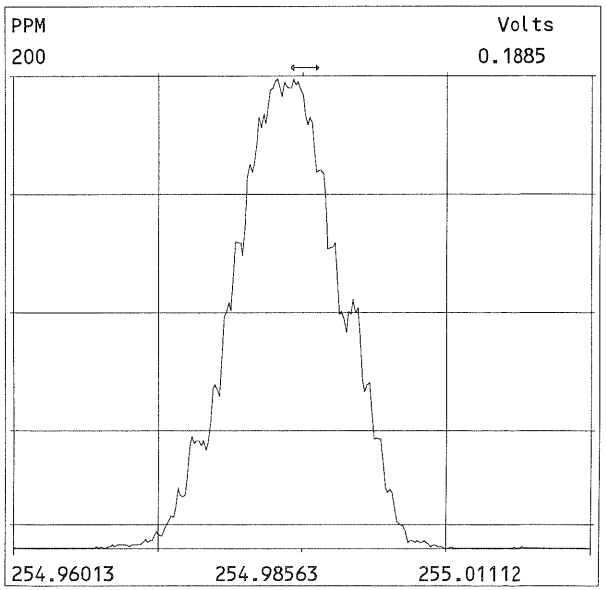


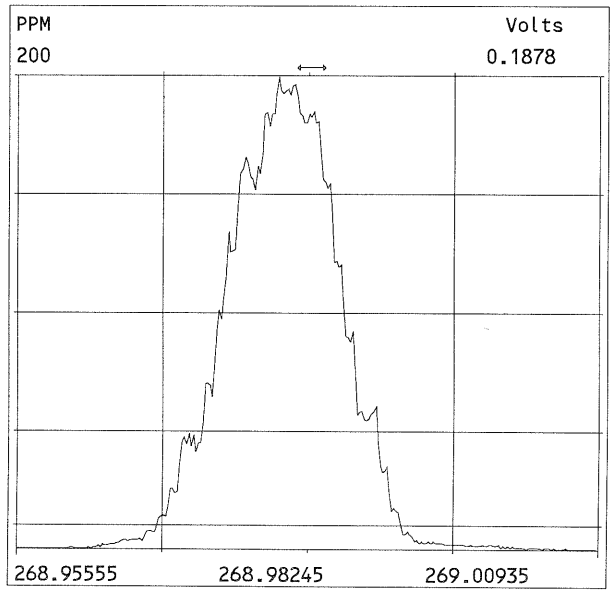
Peak Locate Examination:18-AUG-2016:16:48 File:18AUG16Z
Experiment:1668PCB Function:2 Reference:PFK

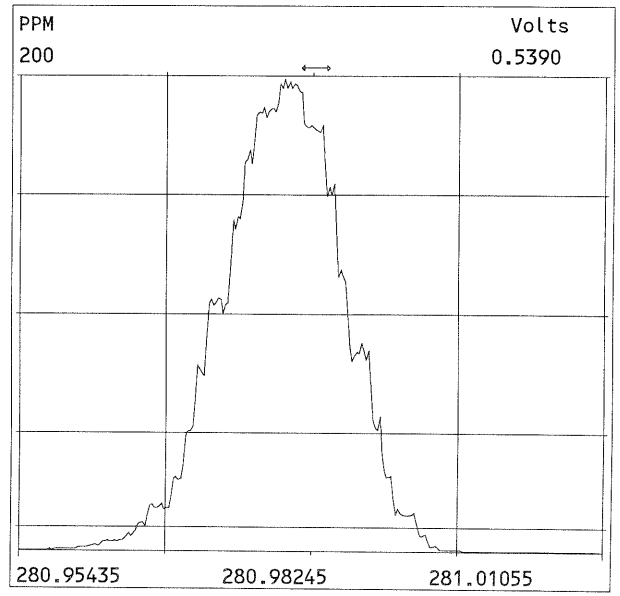




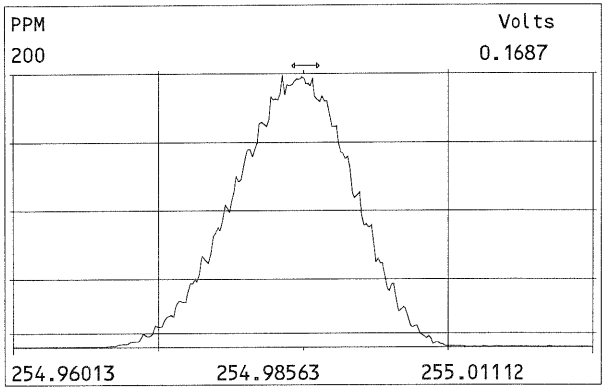


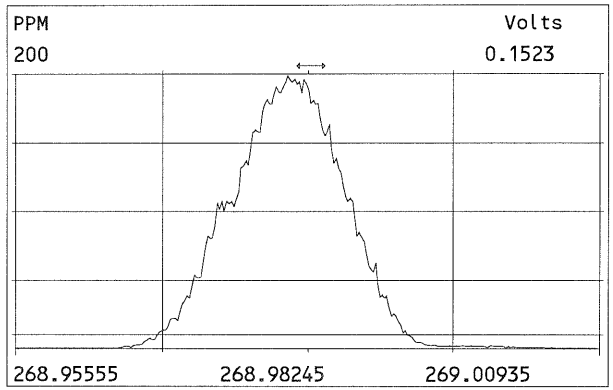


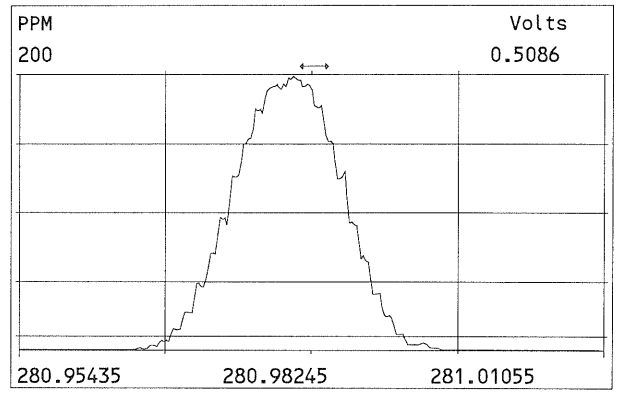


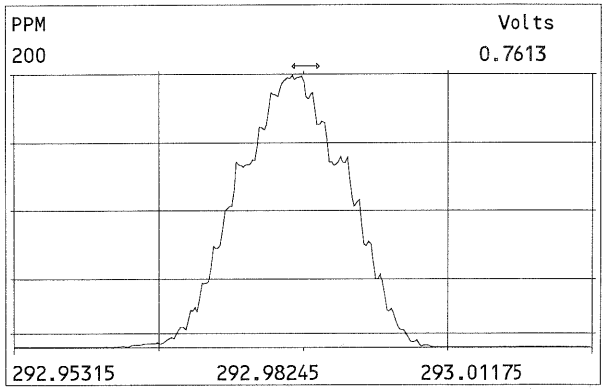


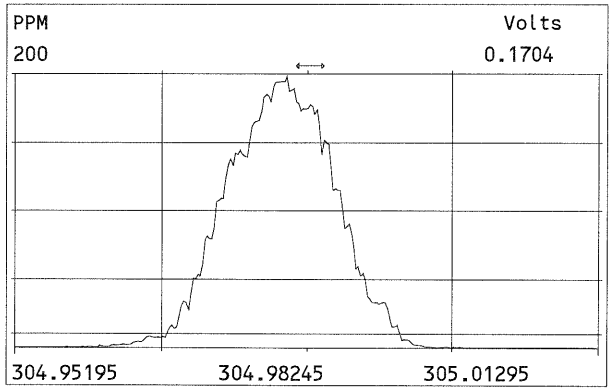
Peak Locate Examination:18-AUG-2016:16:48 File:18AUG16Z
Experiment:1668PCB Function:3 Reference:PFK

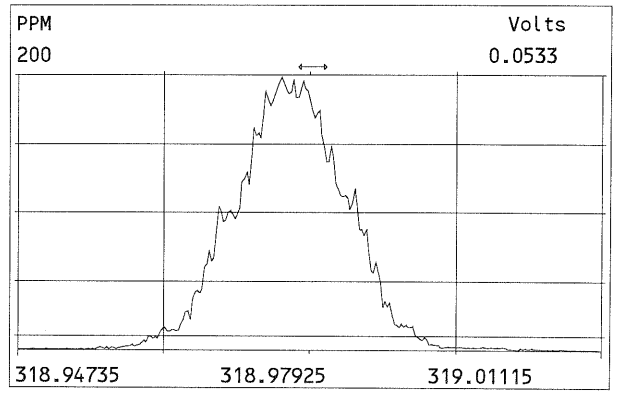


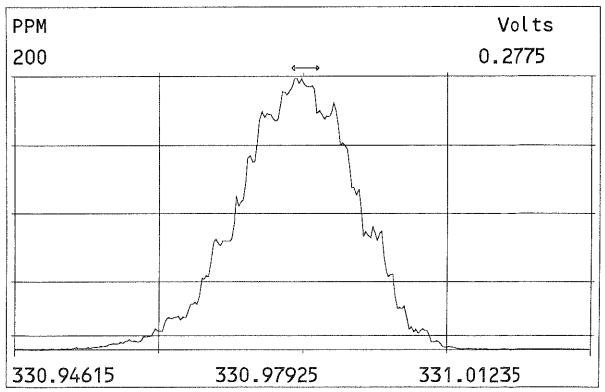


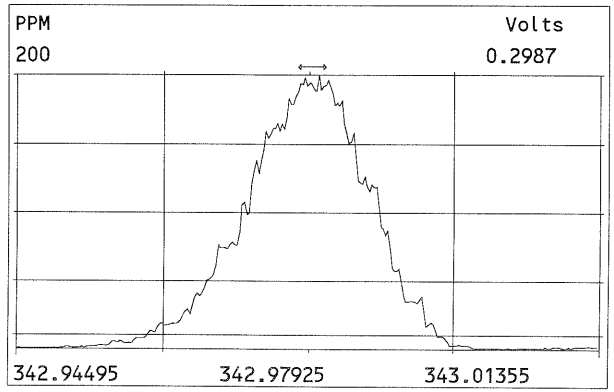




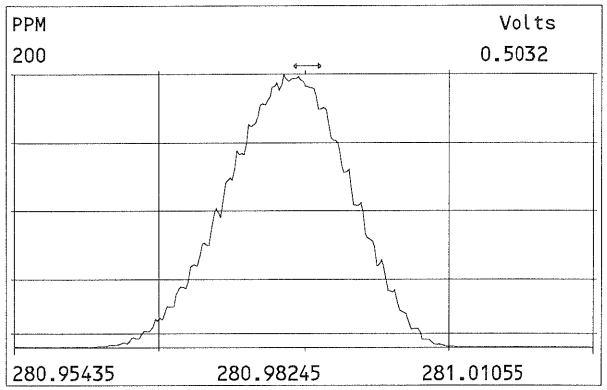


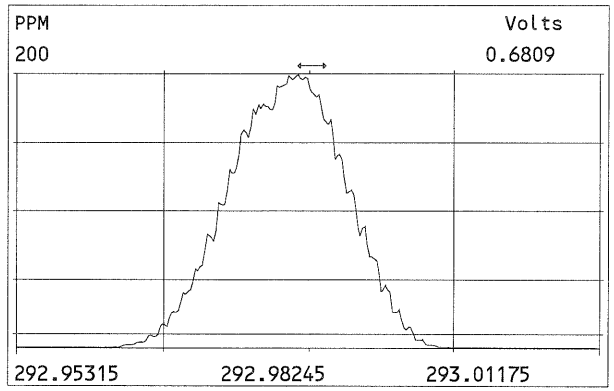


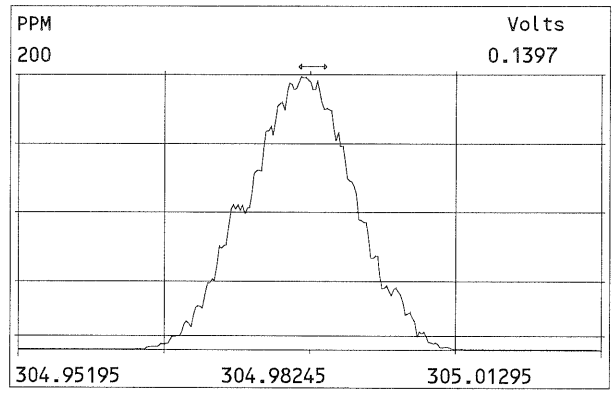


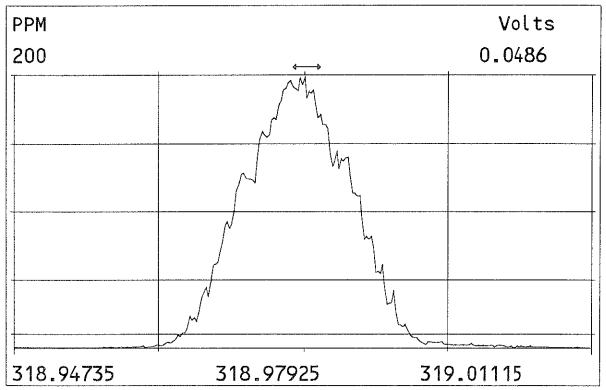


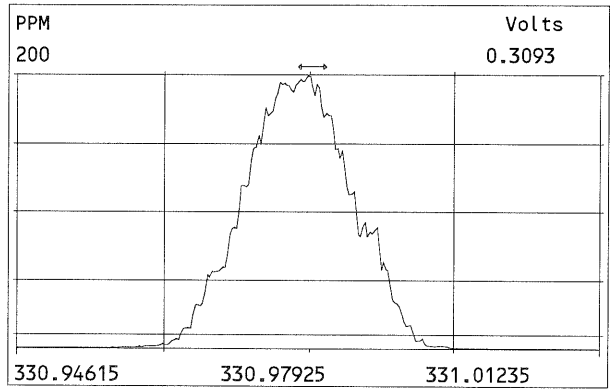
Peak Locate Examination:18-AUG-2016:16:48 File:18AUG16Z
Experiment:1668PCB Function:4 Reference:PFK

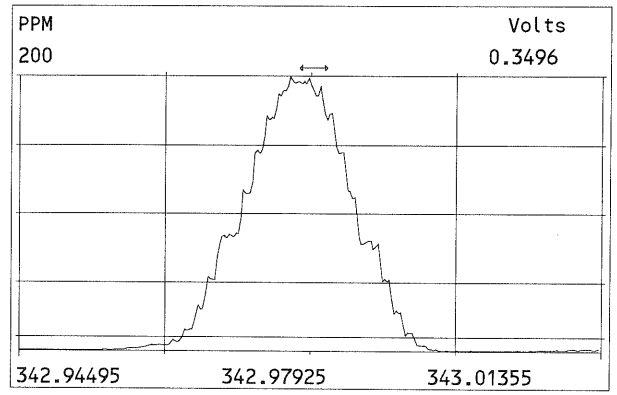


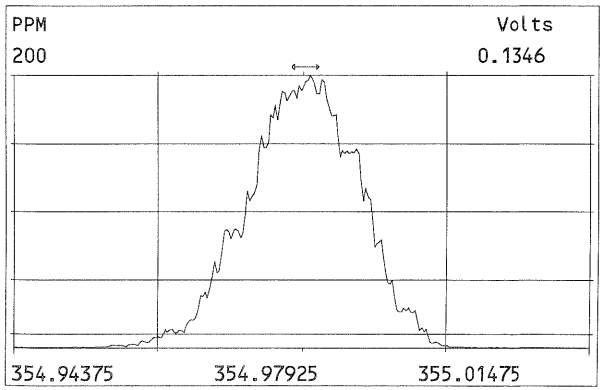


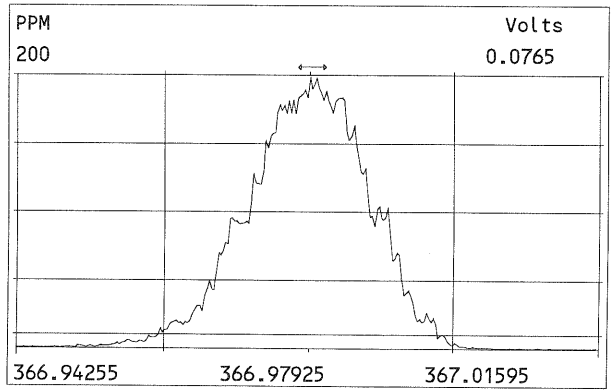


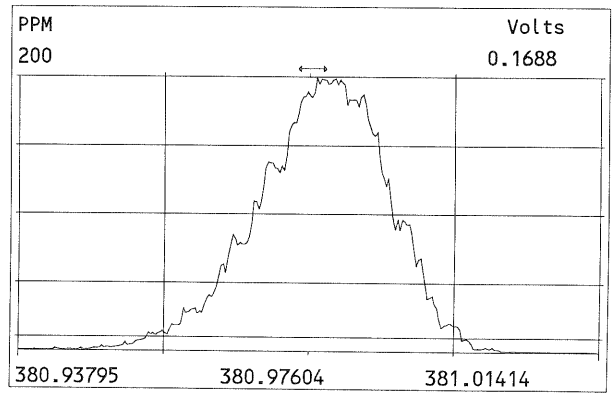












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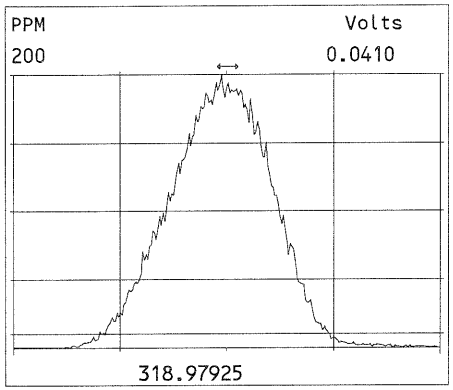
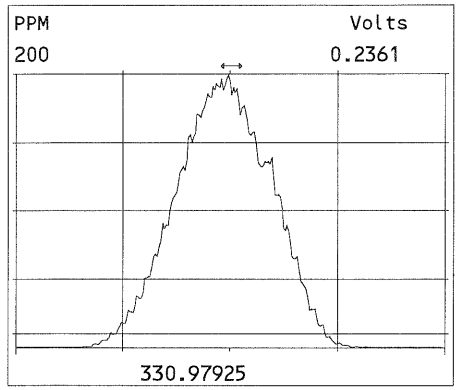
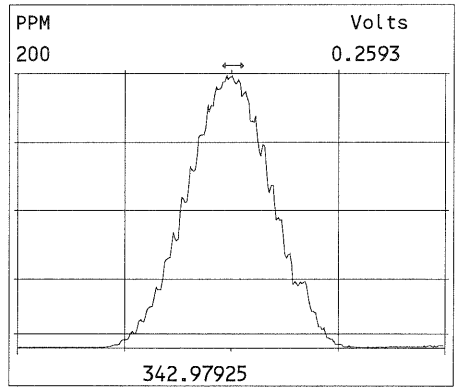
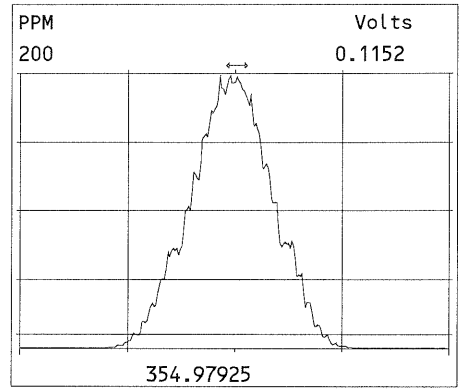
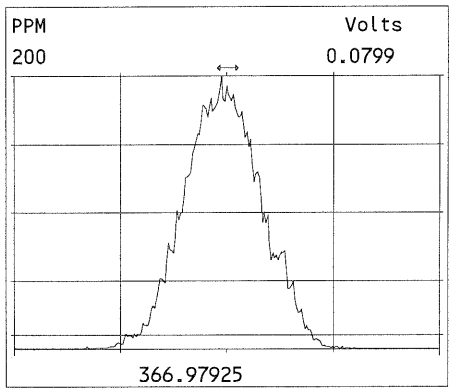
Experiment:1668PCB Function:5 Reference:PFK

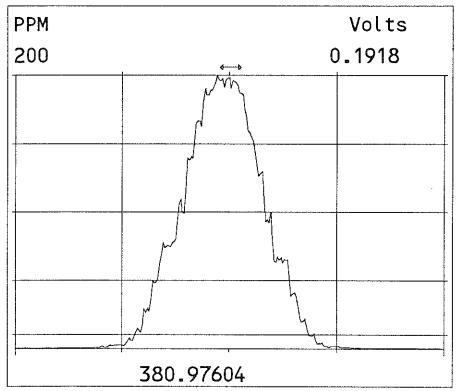


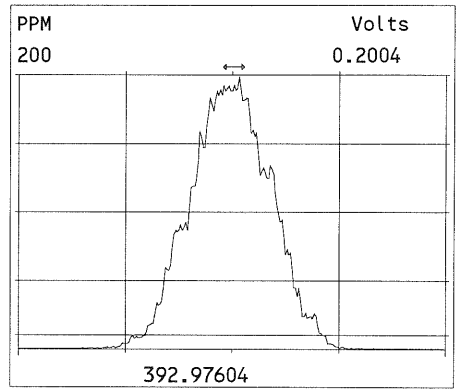


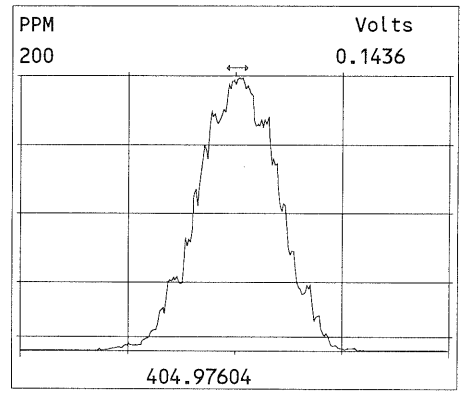


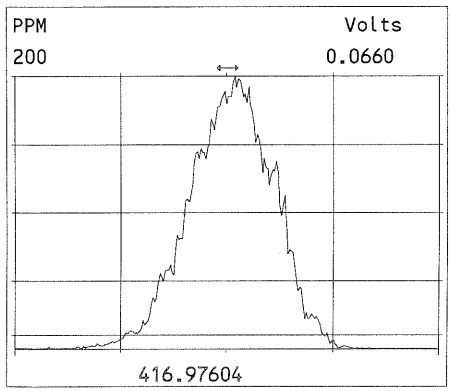


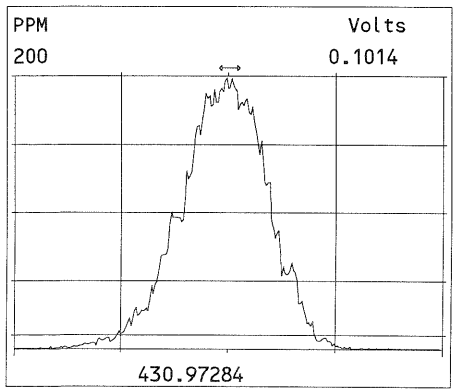


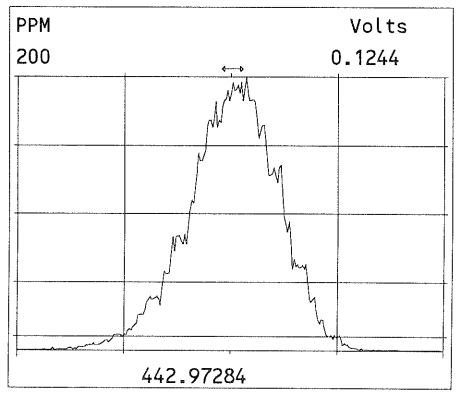




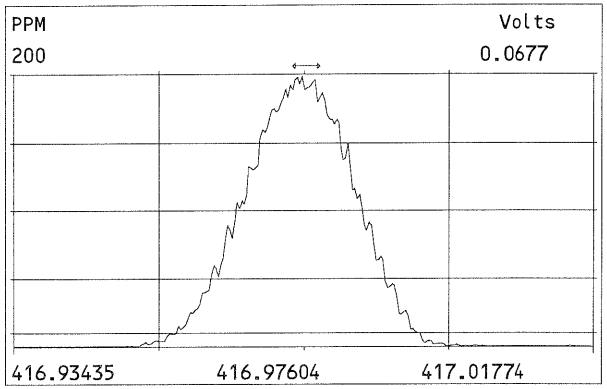


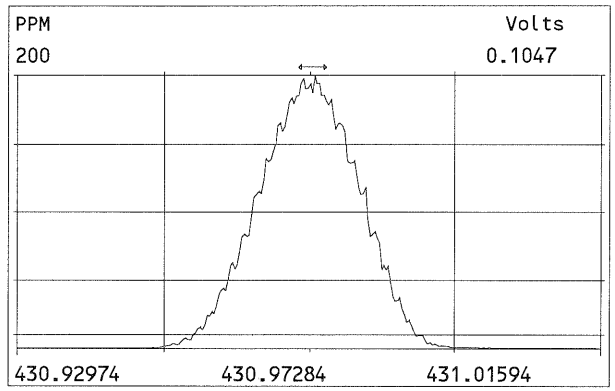


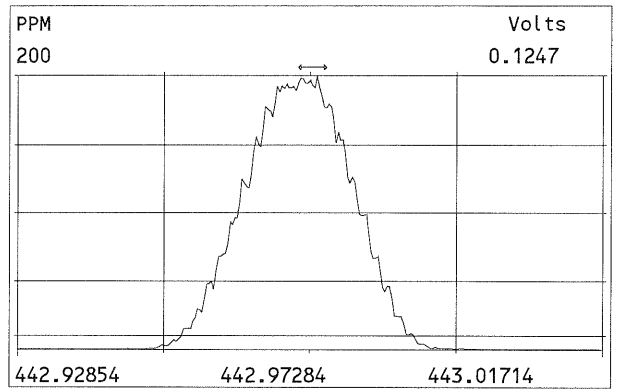


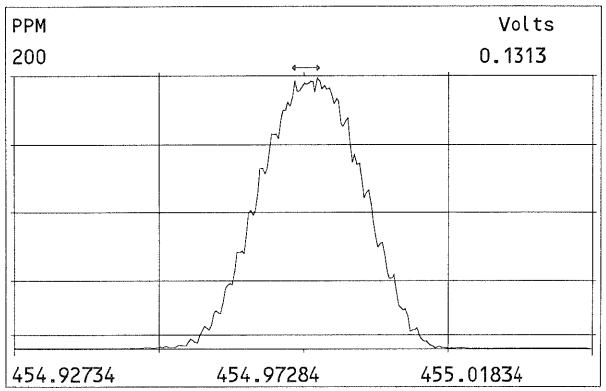


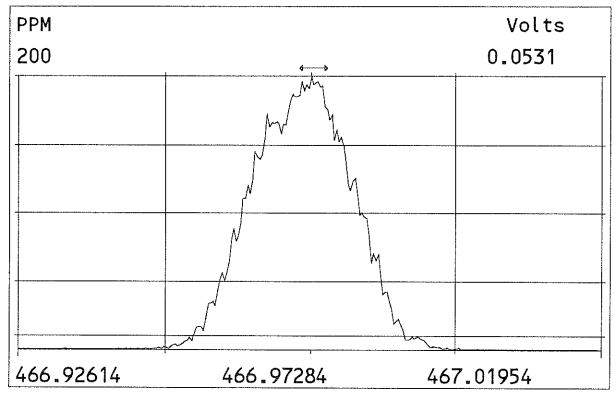
Peak Locate Examination:18-AUG-2016:16:50 File:18AUG16Z
Experiment:1668PCB Function:6 Reference:PFK

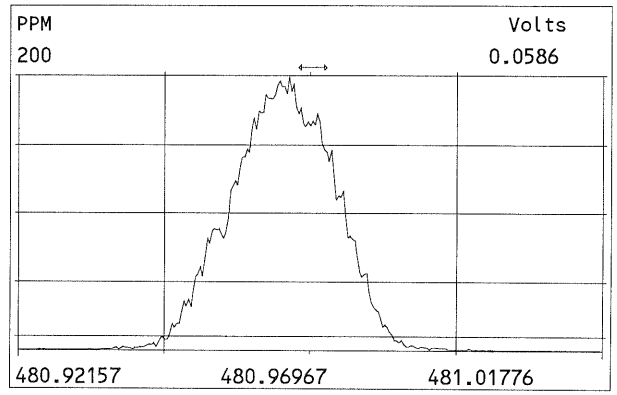


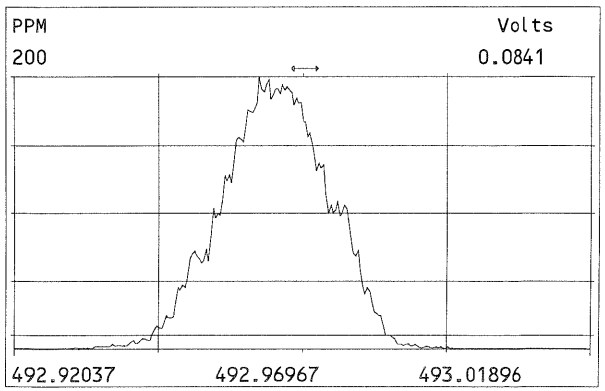


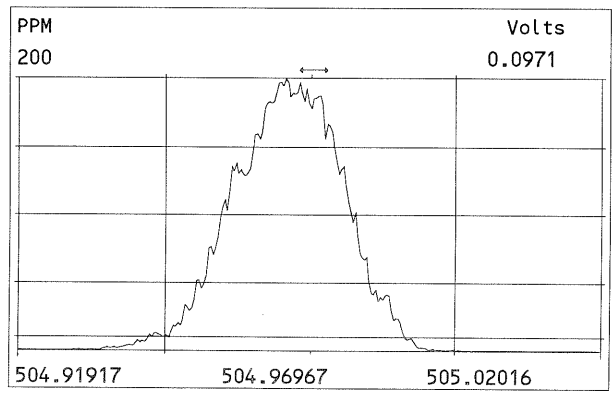


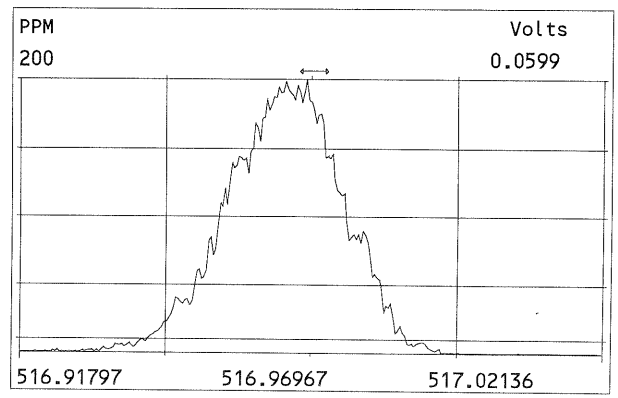




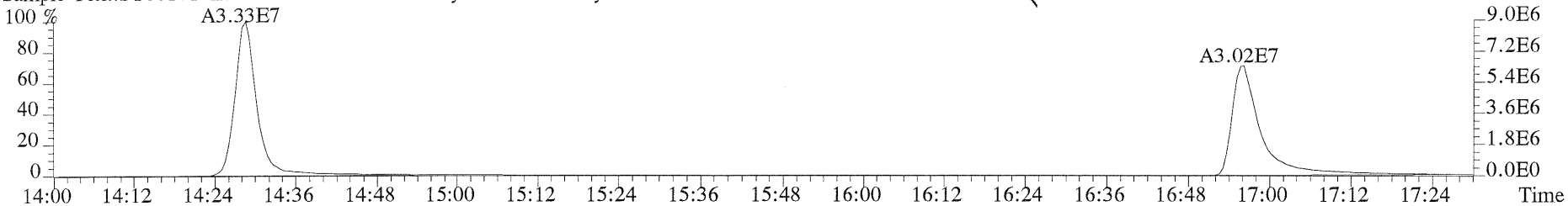








File:18AUG16Z #1-900 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
188.0393 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



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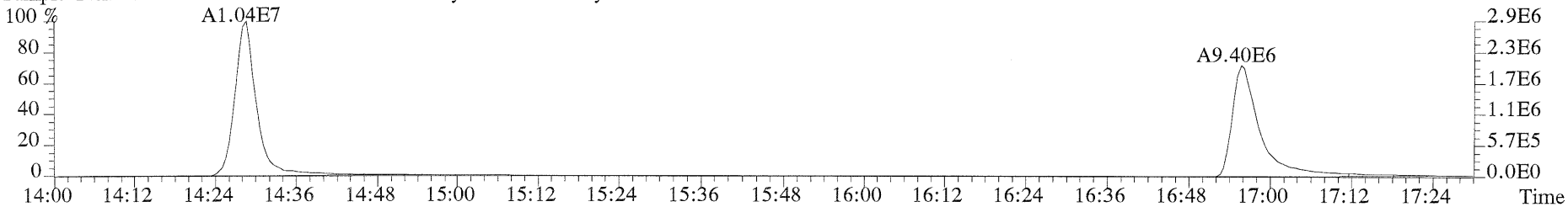
190.0363 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



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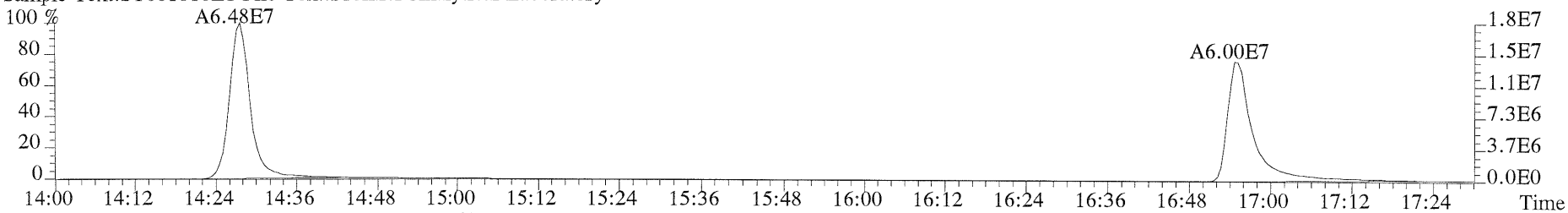
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



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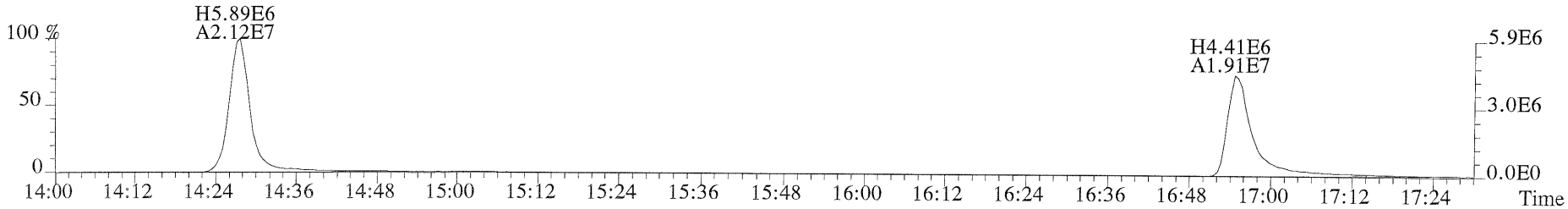
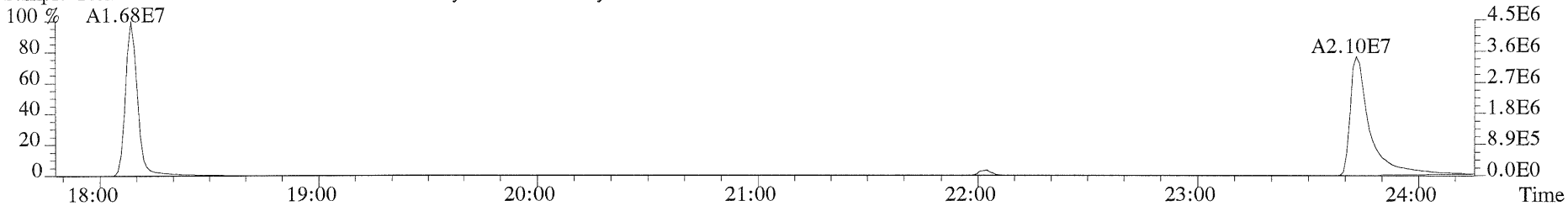
202.0766 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-509 Acq:18-AUG-2016 16:50:51 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:ST081816Z1 File Text:Frontier Analytical Laboratory



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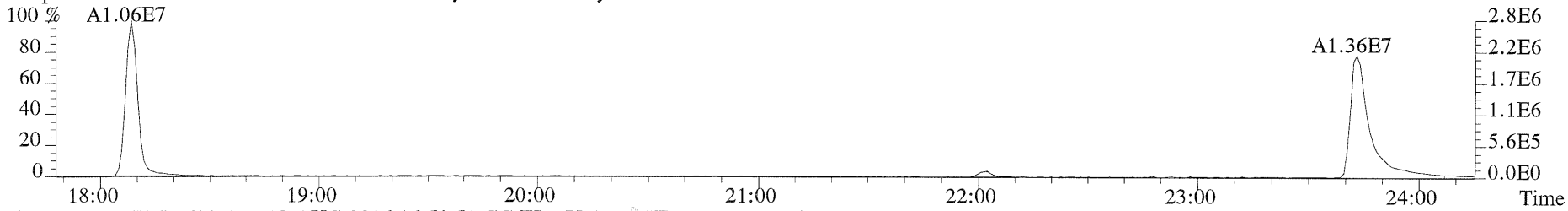
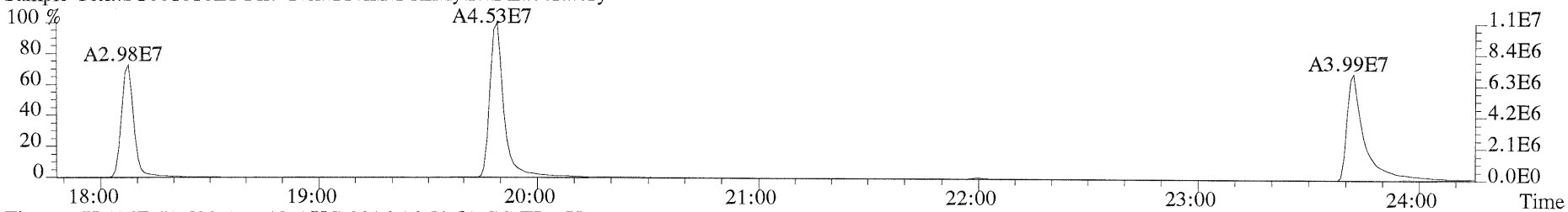
223.9974 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-509 Acq:18-AUG-2016 16:50:51 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:ST081816Z1 File Text:Frontier Analytical Laboratory



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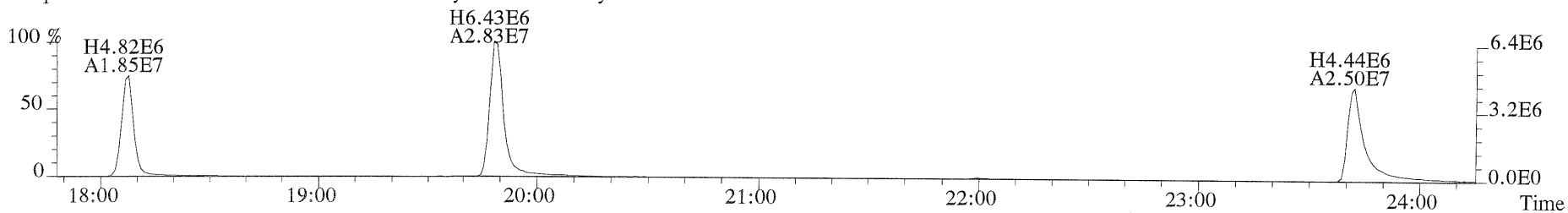
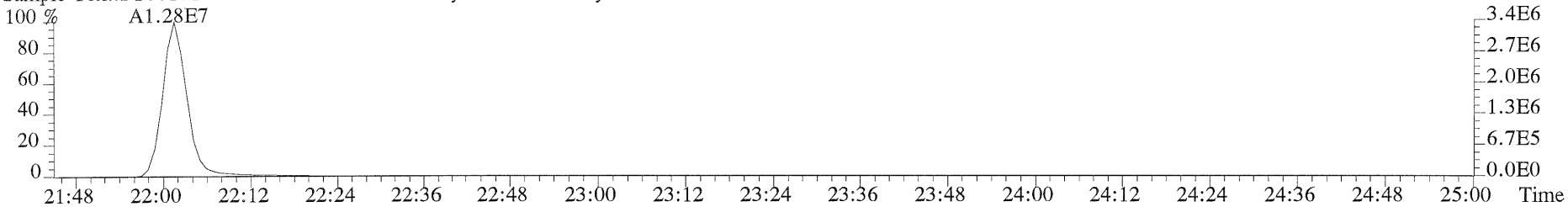
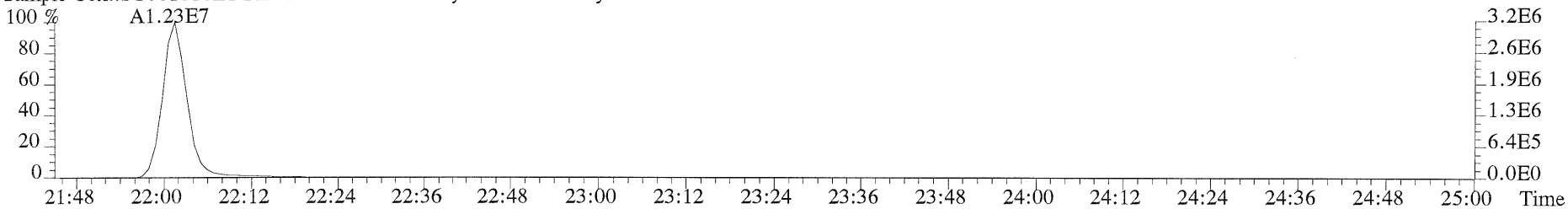
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



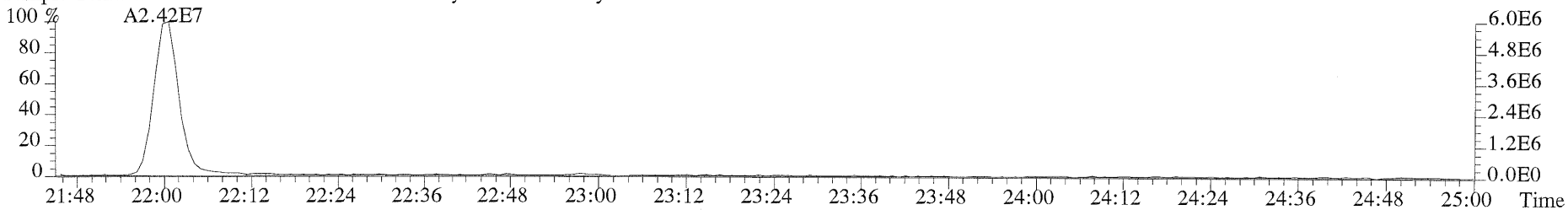
File:18AUG16Z #1-509 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



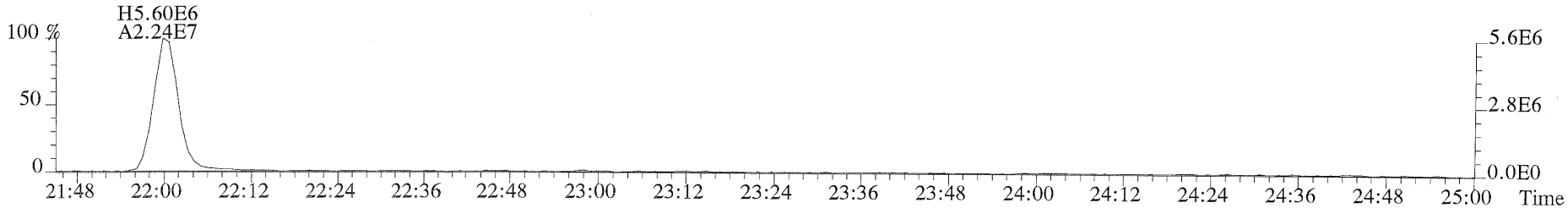
File:18AUG16Z #1-509 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



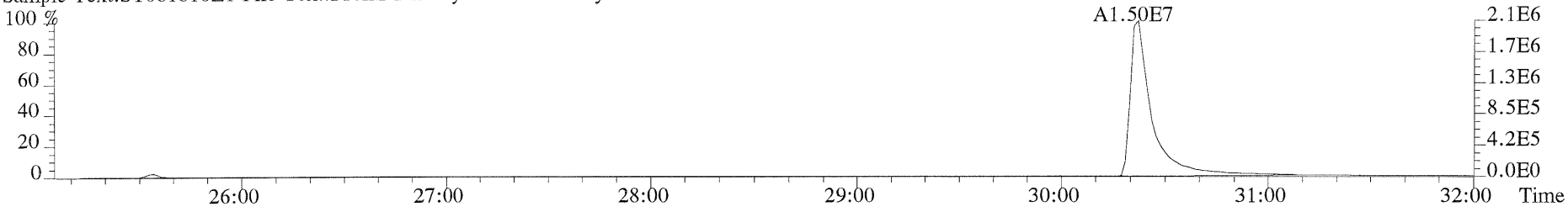
File:18AUG16Z #1-509 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



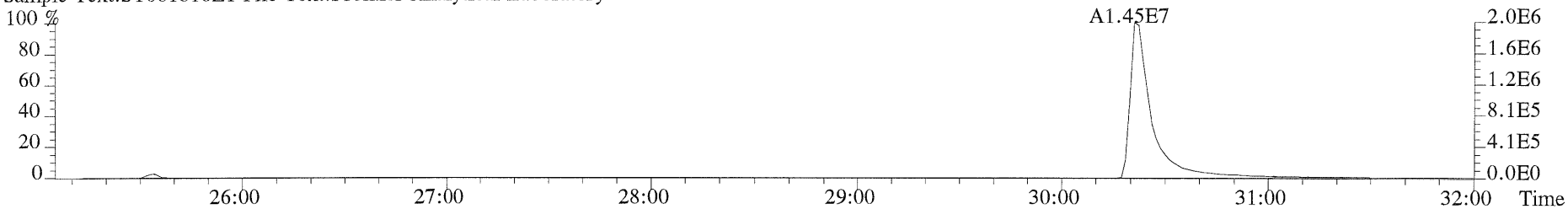
File:18AUG16Z #1-509 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 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:ST081816Z1 File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 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:ST081816Z1 File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
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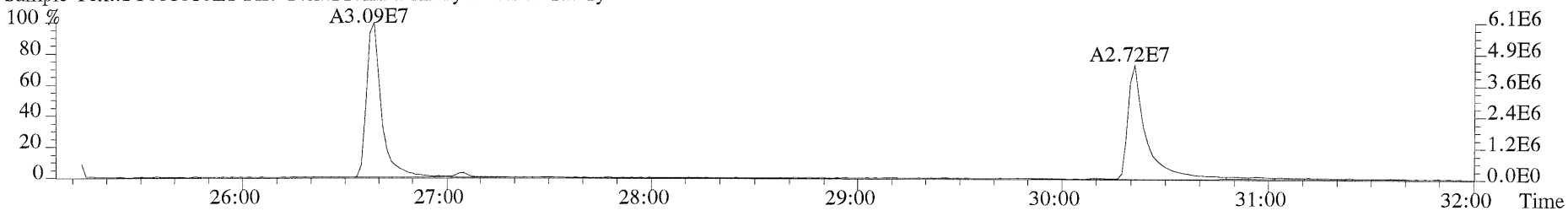
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
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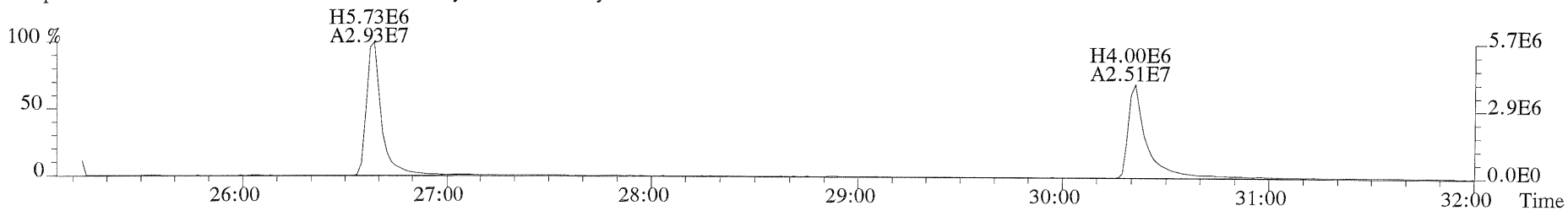
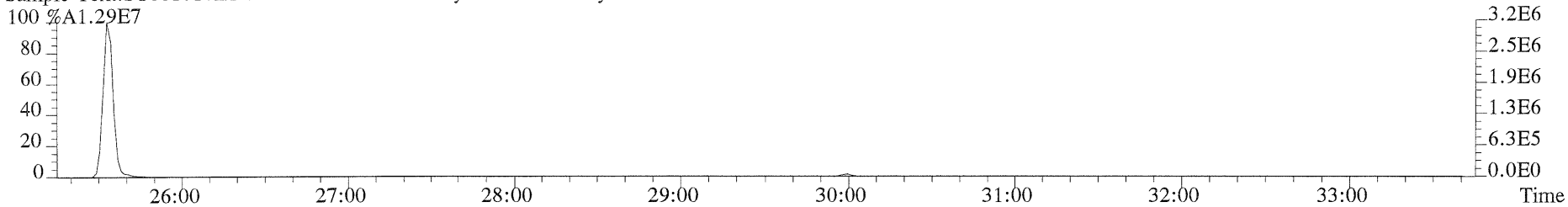
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 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:ST081816Z1 File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
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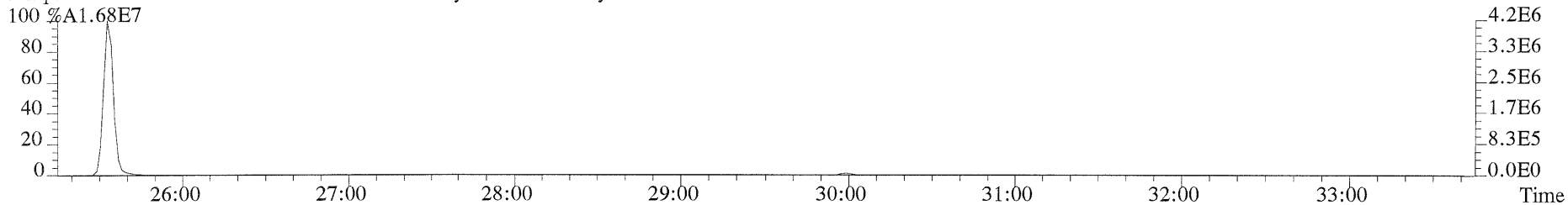
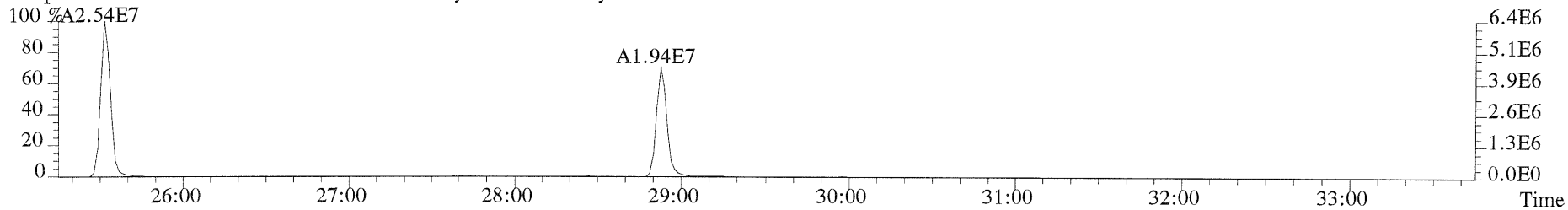
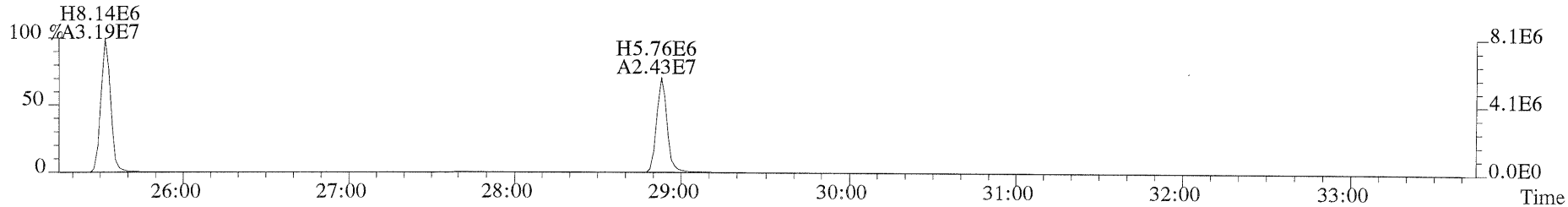
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



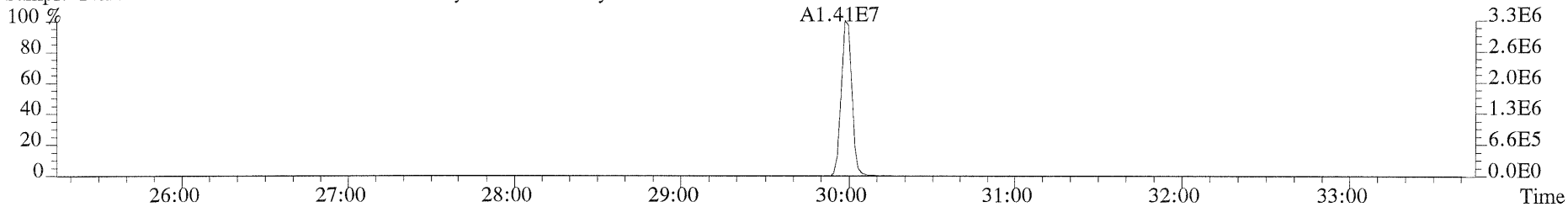
File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 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:ST081816Z1 File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 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:ST081816Z1 File Text:Frontier Analytical Laboratory



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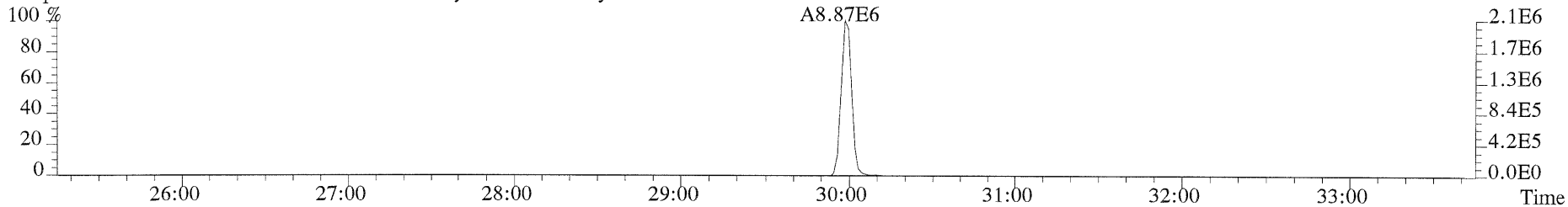
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



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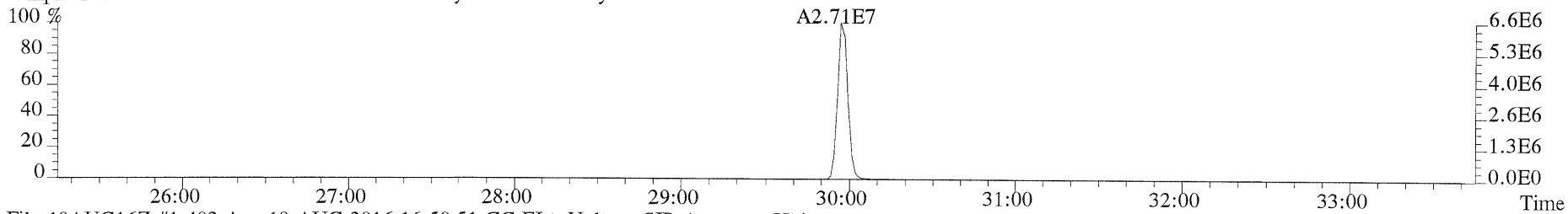
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



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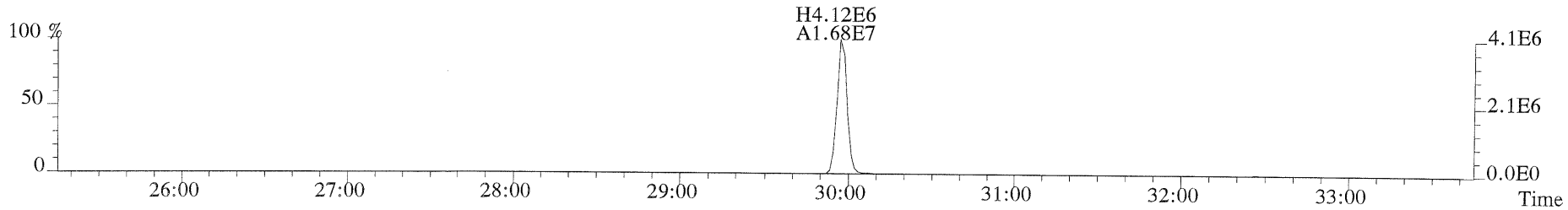
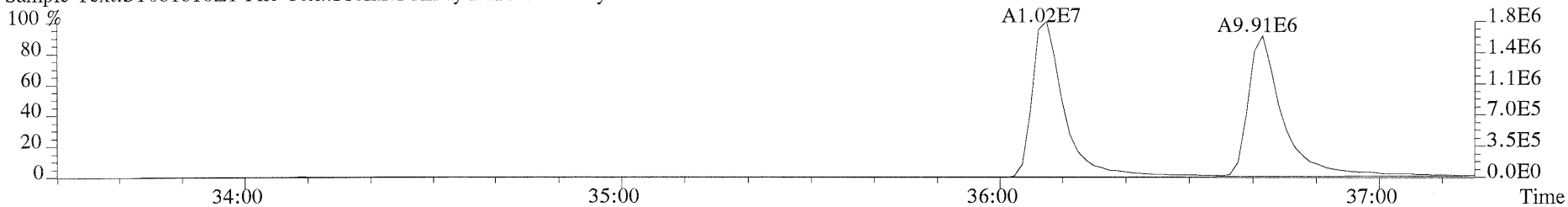
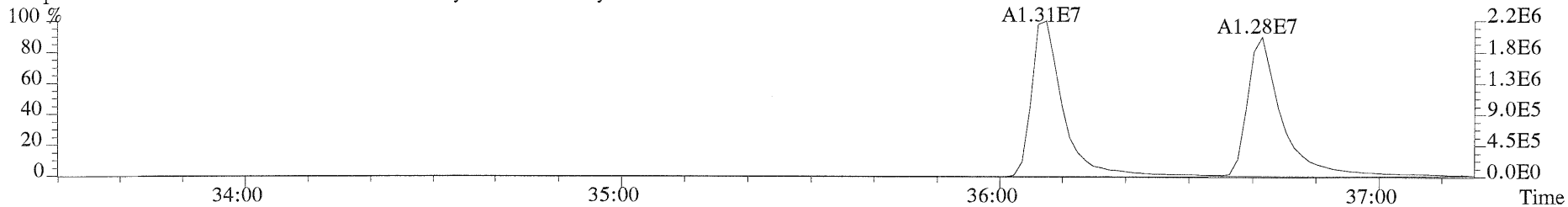
339.9178 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



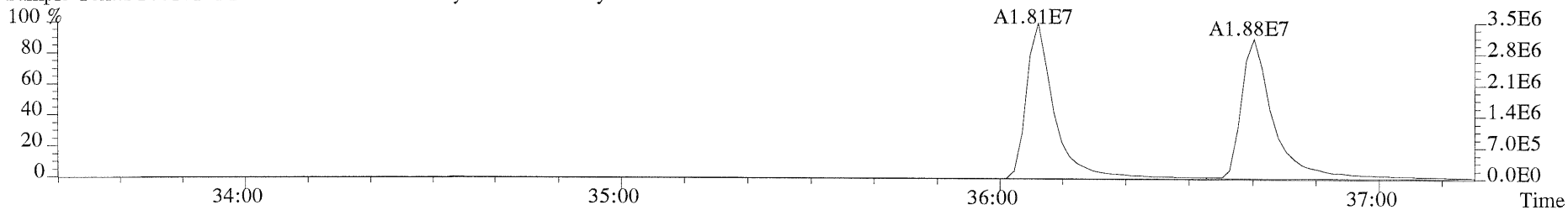
File:18AUG16Z #1-179 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



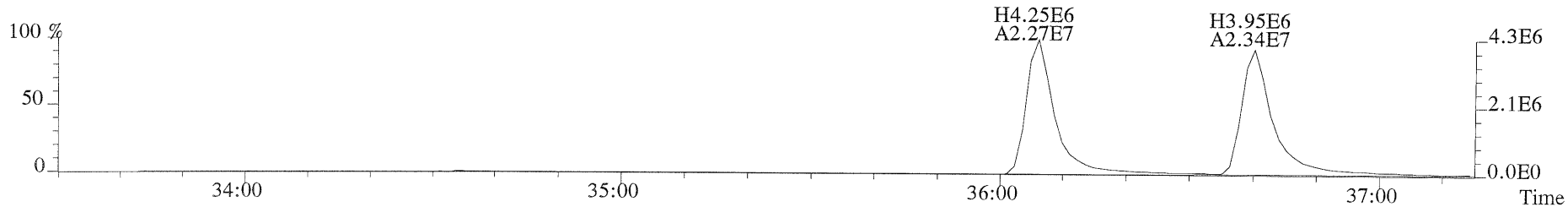
File:18AUG16Z #1-179 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



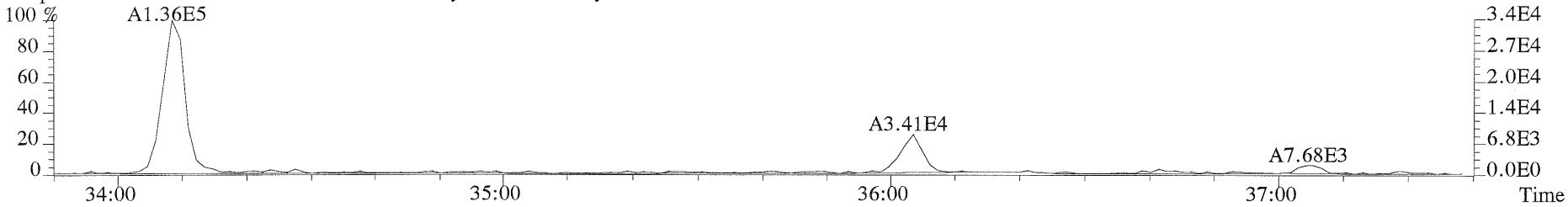
File:18AUG16Z #1-179 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



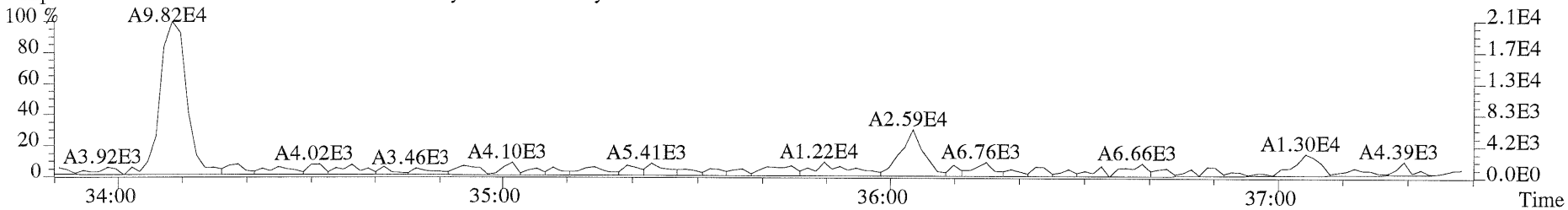
File:18AUG16Z #1-179 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



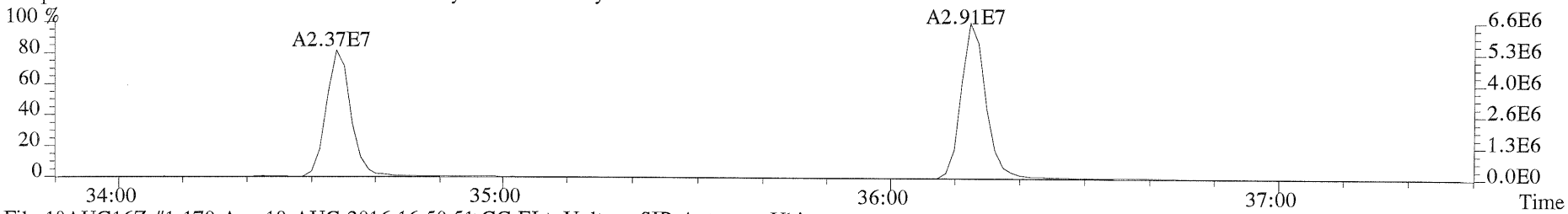
File:18AUG16Z #1-179 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



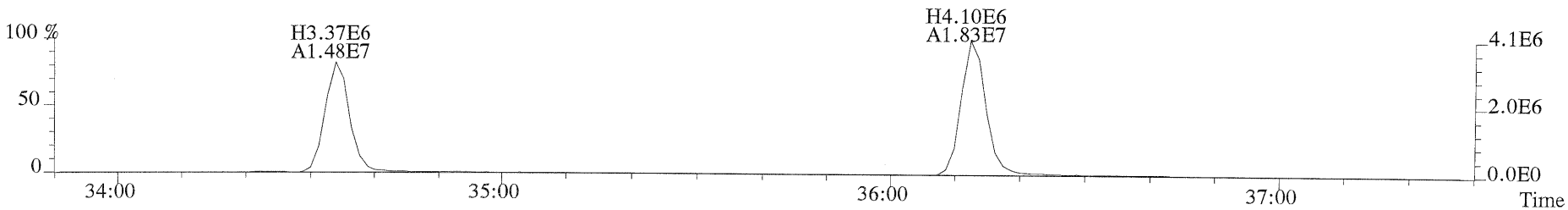
File:18AUG16Z #1-179 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



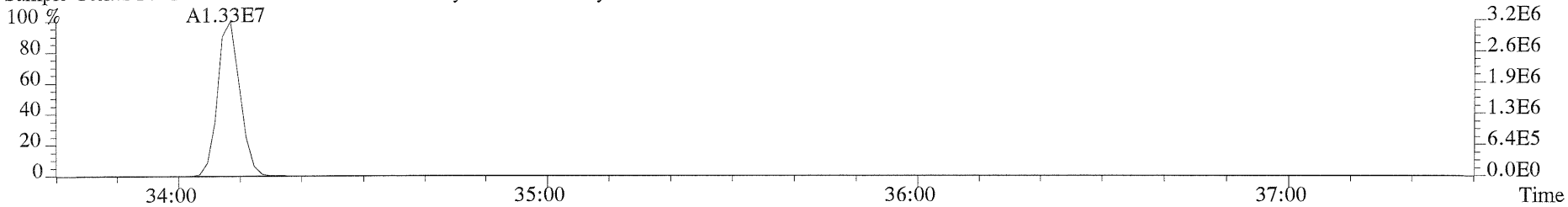
File:18AUG16Z #1-179 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



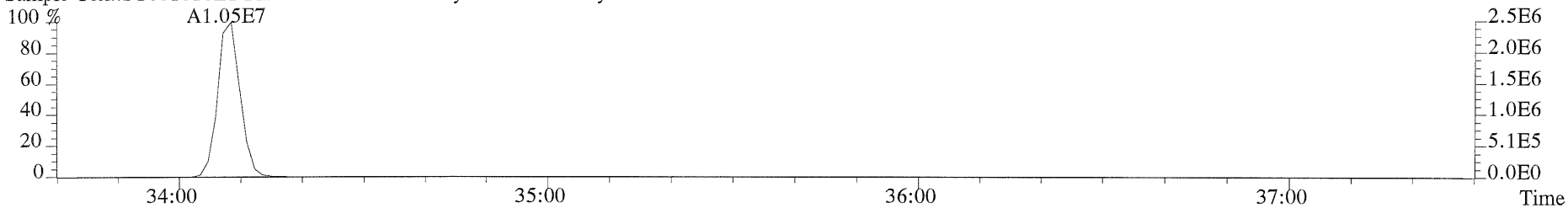
File:18AUG16Z #1-179 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



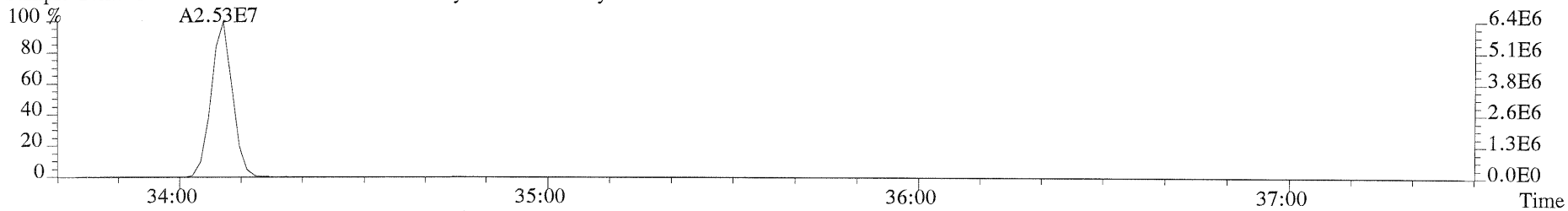
File:18AUG16Z #1-179 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



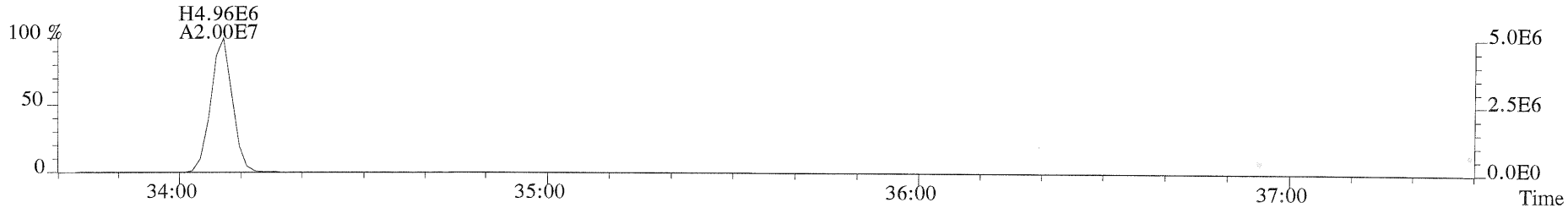
File:18AUG16Z #1-179 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



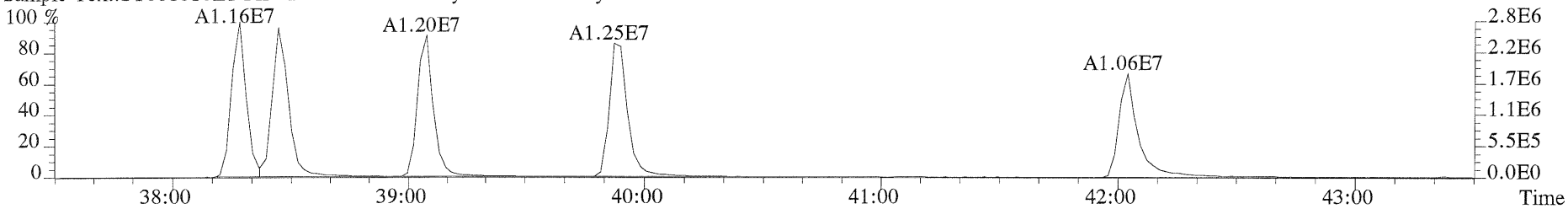
File:18AUG16Z #1-179 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



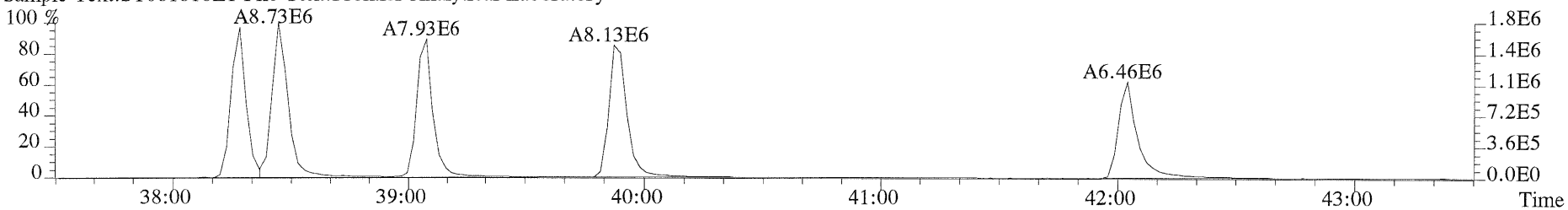
File:18AUG16Z #1-179 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



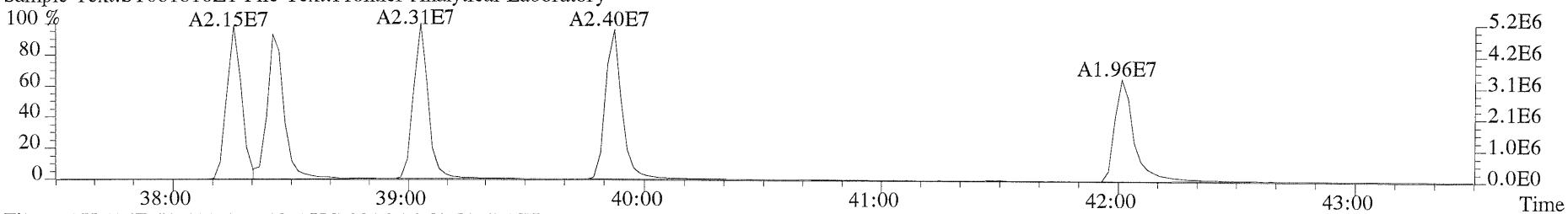
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



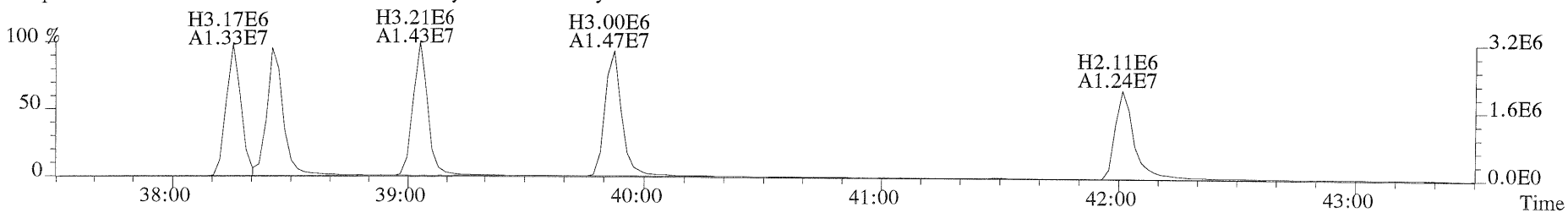
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



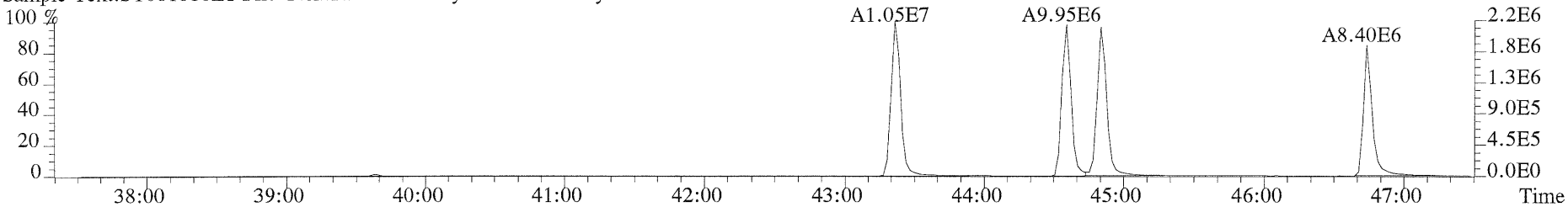
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



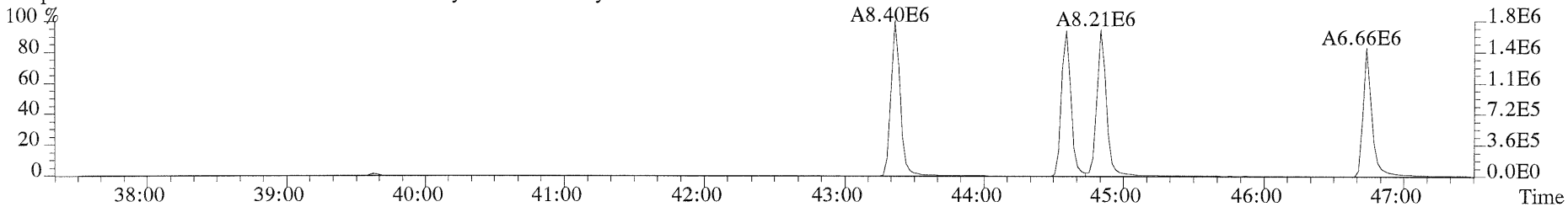
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



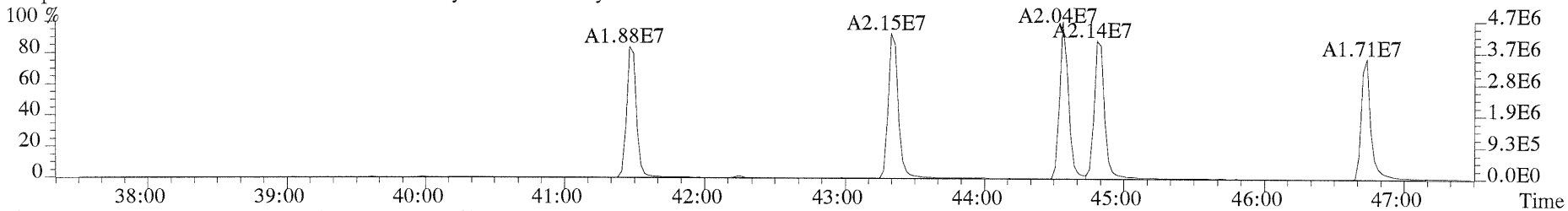
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



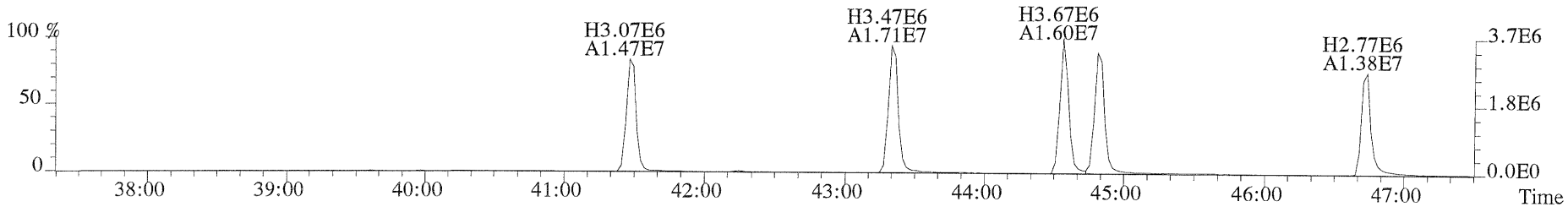
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



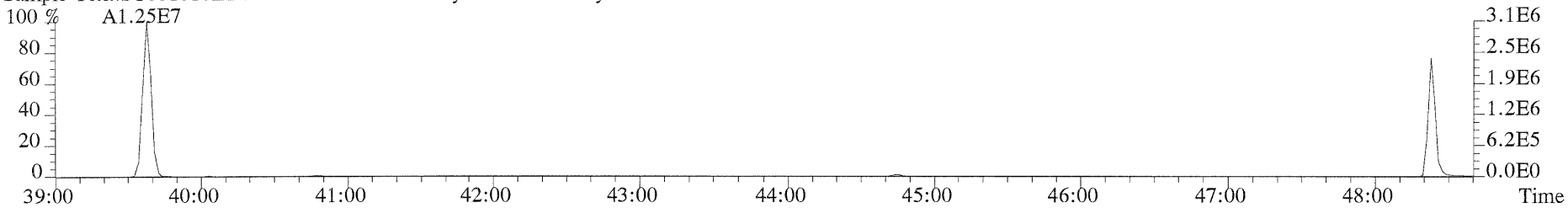
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



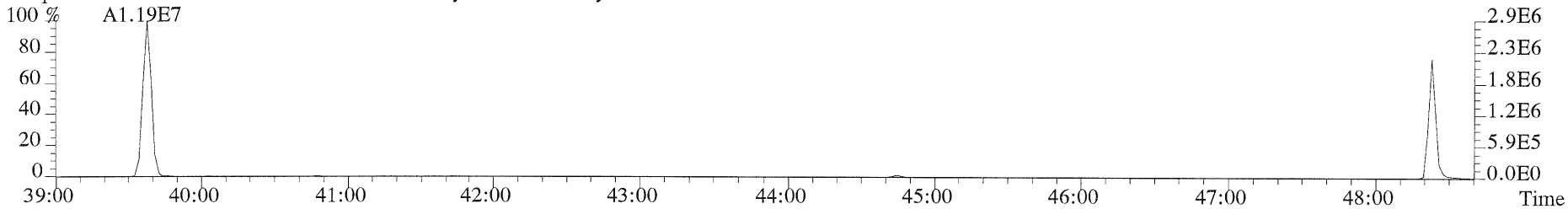
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



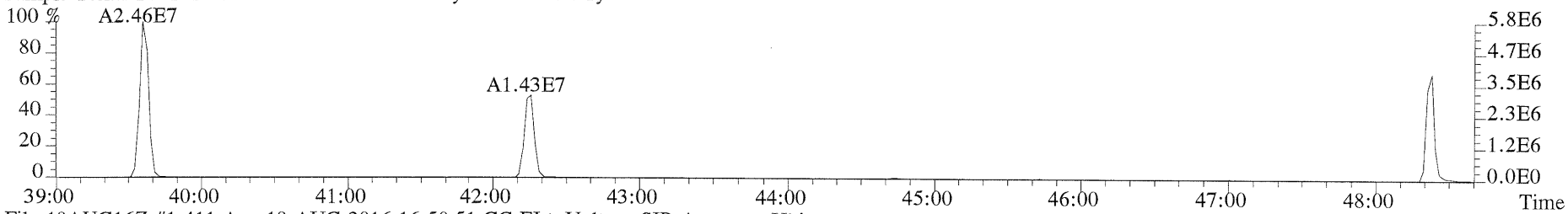
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
393.8025 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



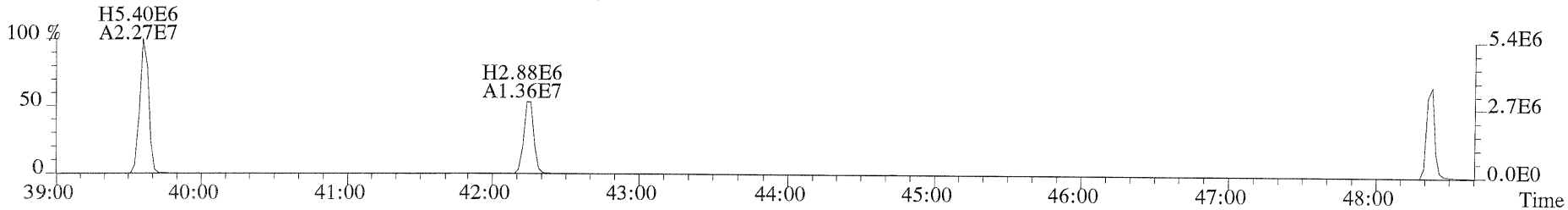
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
395.7995 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



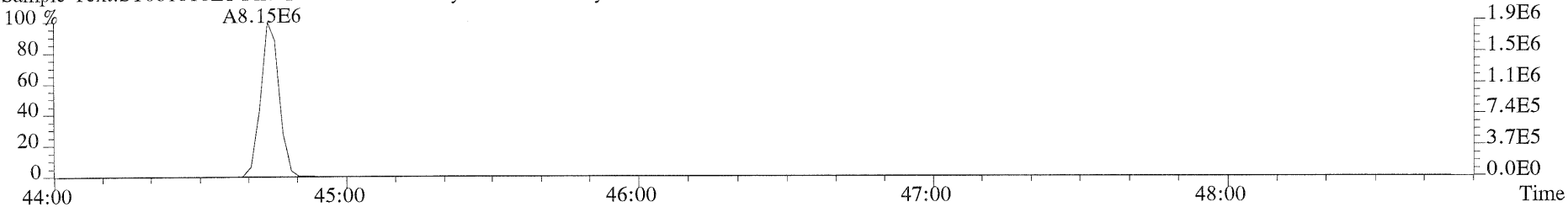
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
405.8428 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



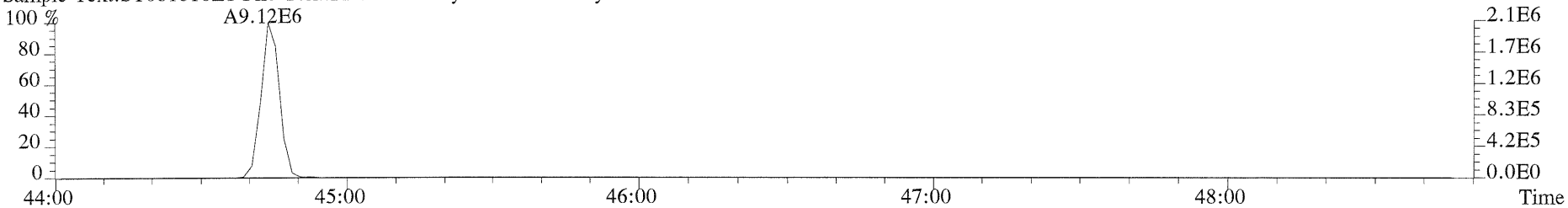
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
407.8398 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



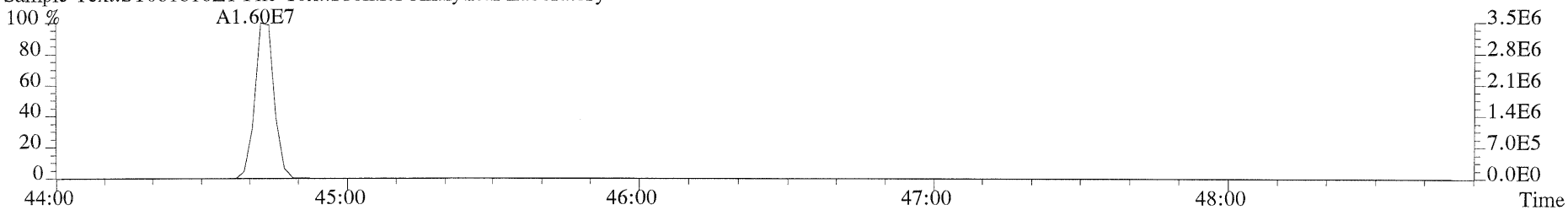
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



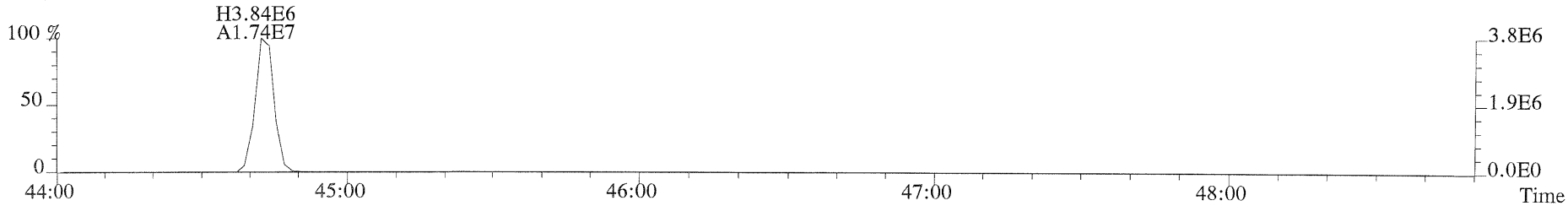
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



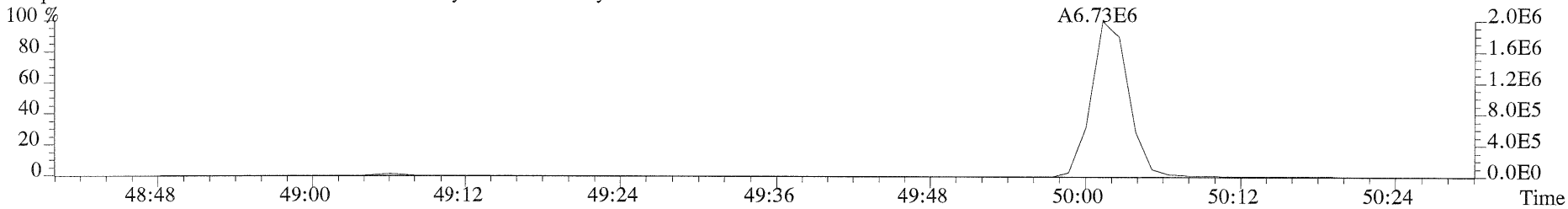
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



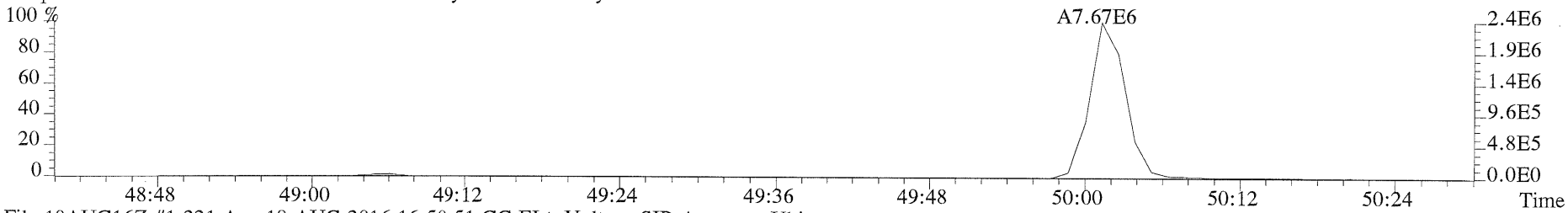
File:18AUG16Z #1-411 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



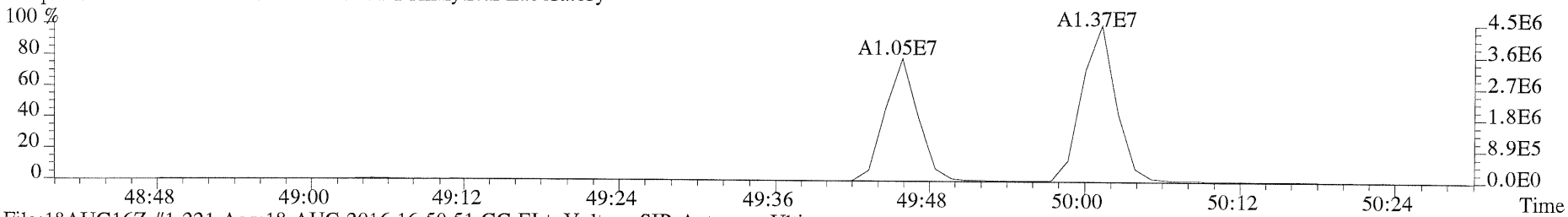
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



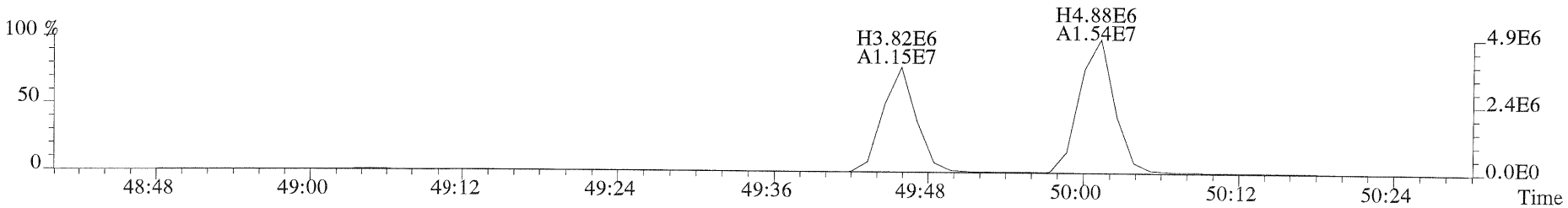
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



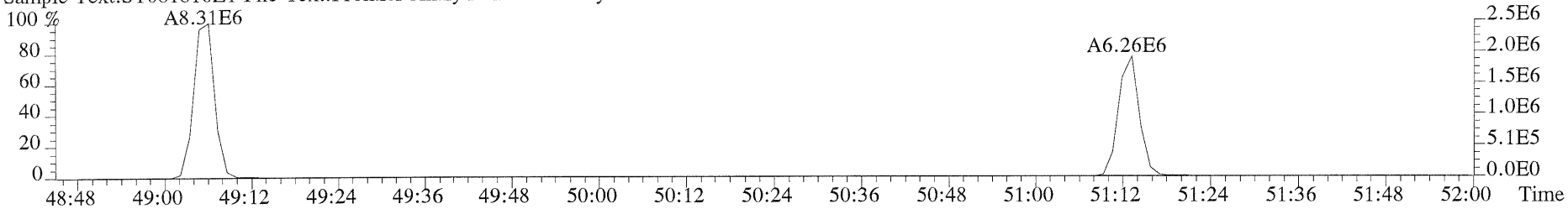
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



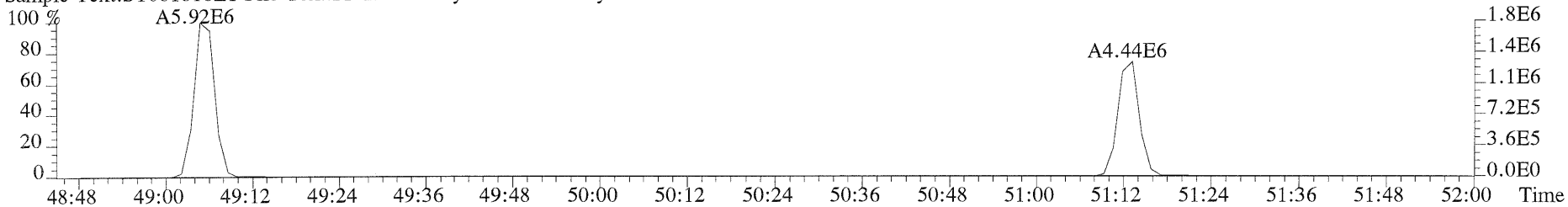
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



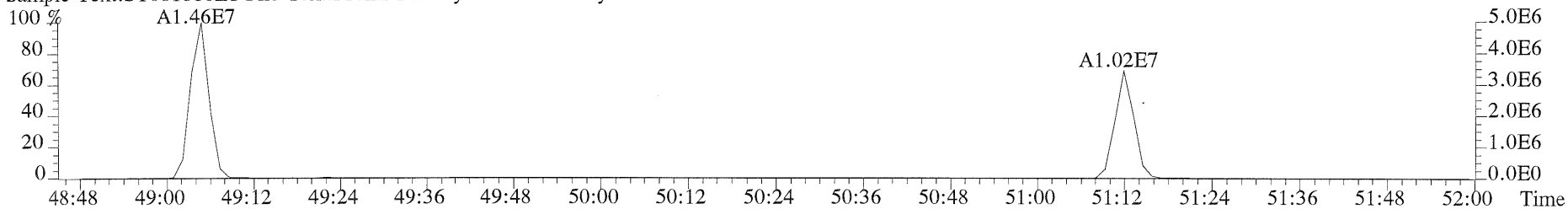
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
463.7216 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



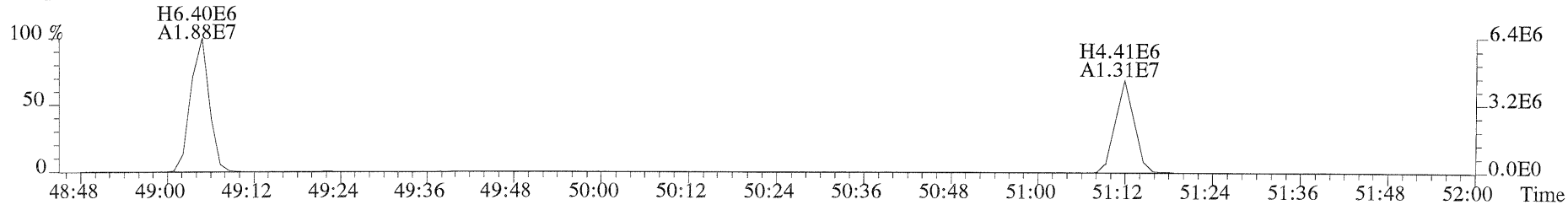
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
465.7187 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



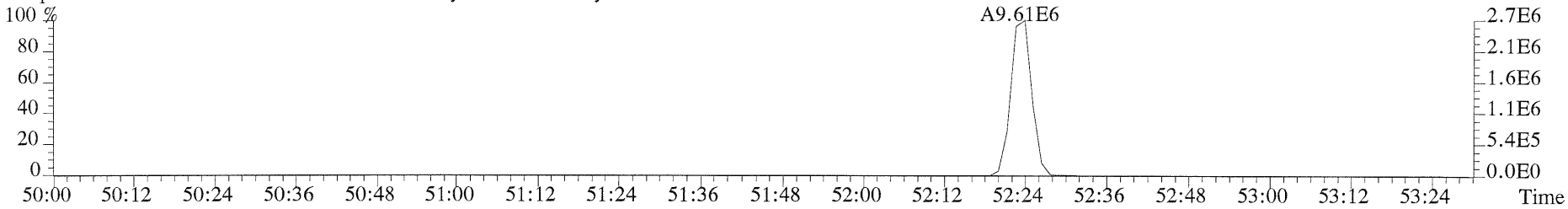
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
473.7648 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



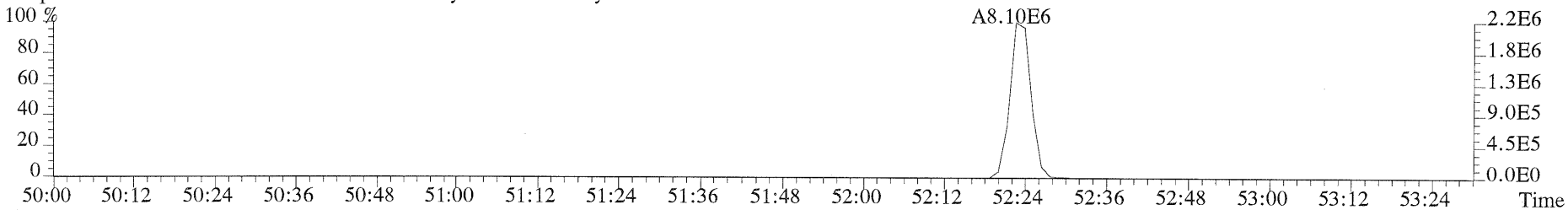
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
475.7619 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



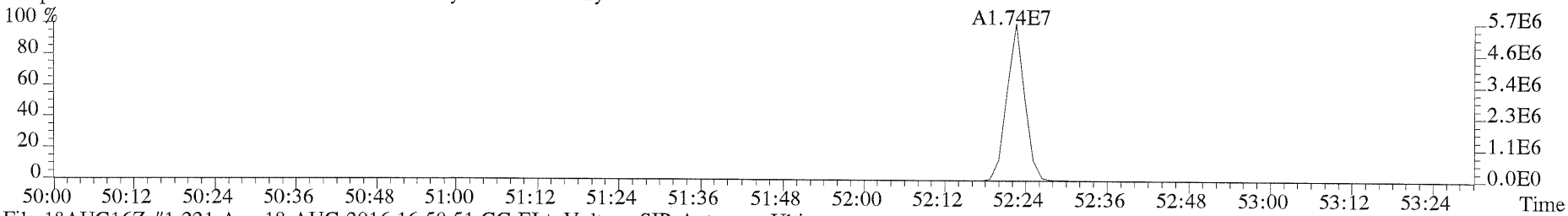
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
497.6826 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



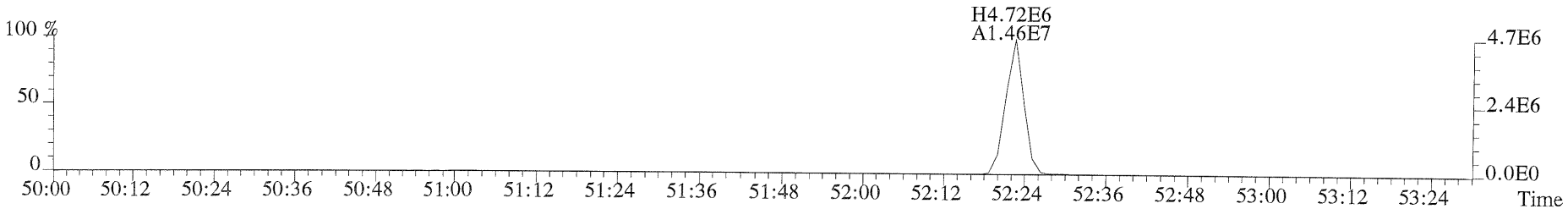
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
499.6797 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory



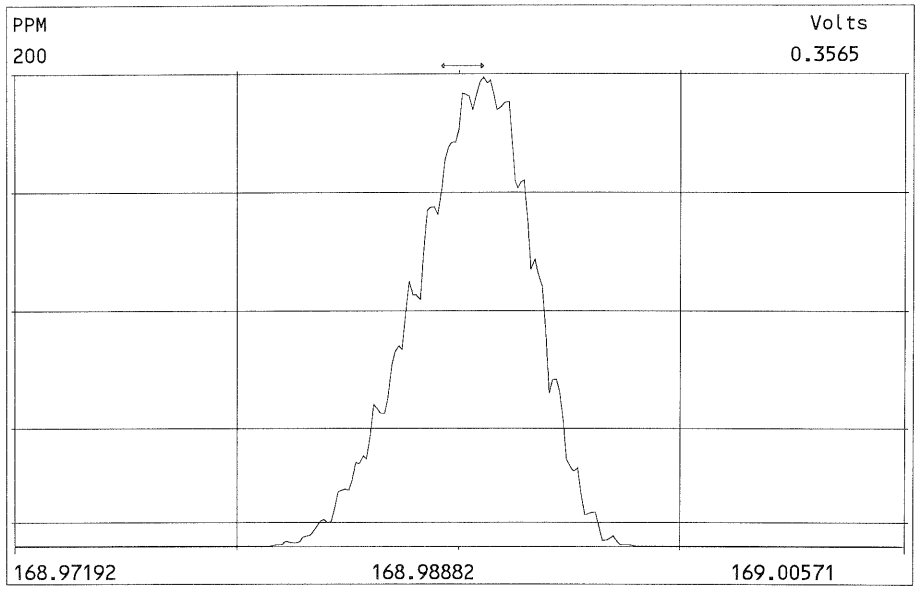
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
509.7229 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory

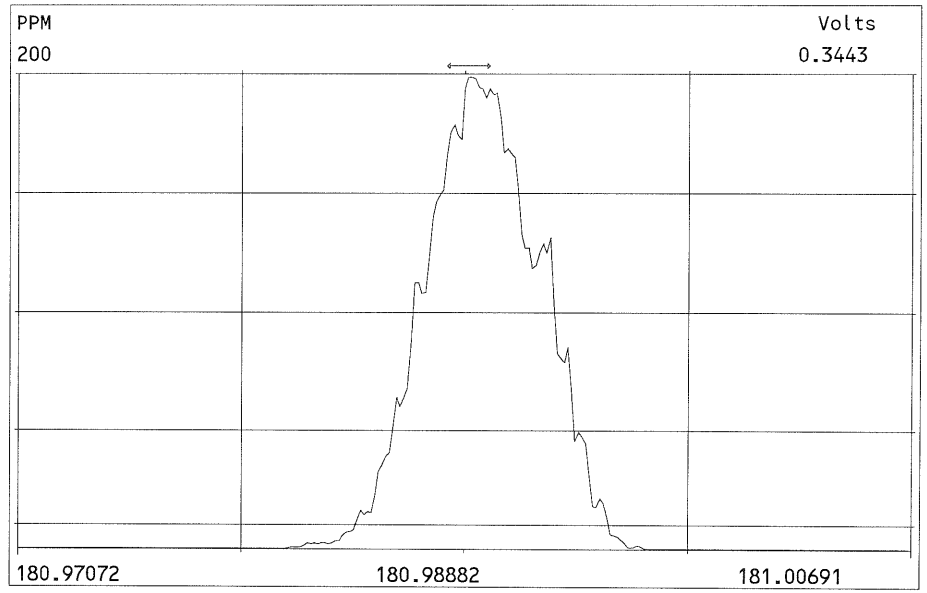


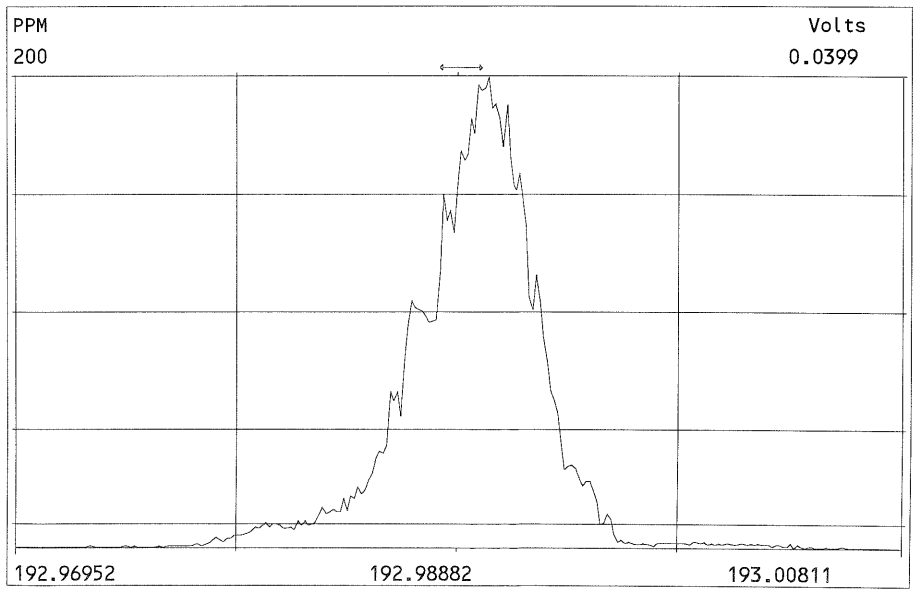
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
511.7199 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z1 File Text:Frontier Analytical Laboratory

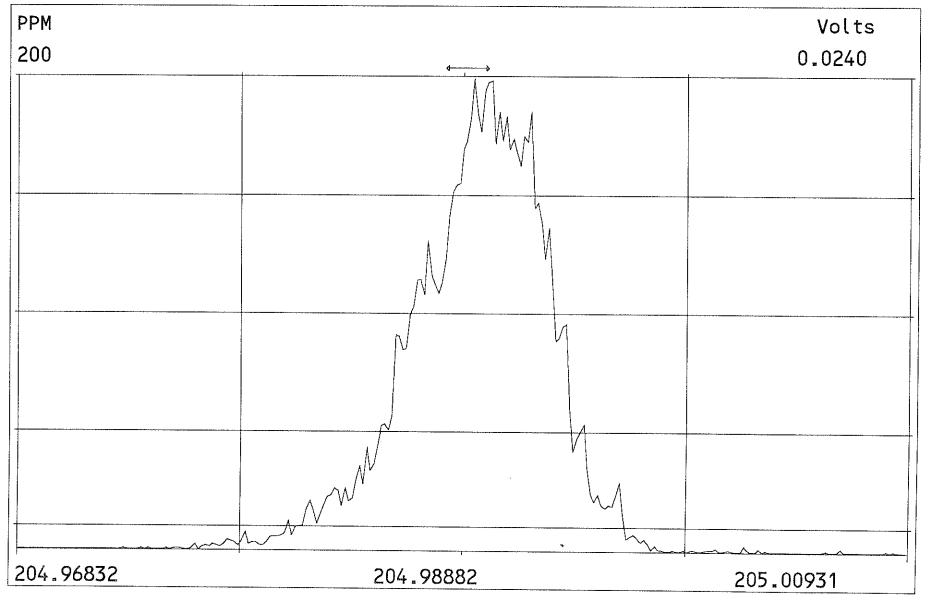


Peak Locate Examination:19-AUG-2016:06:53 File:18AUG16Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

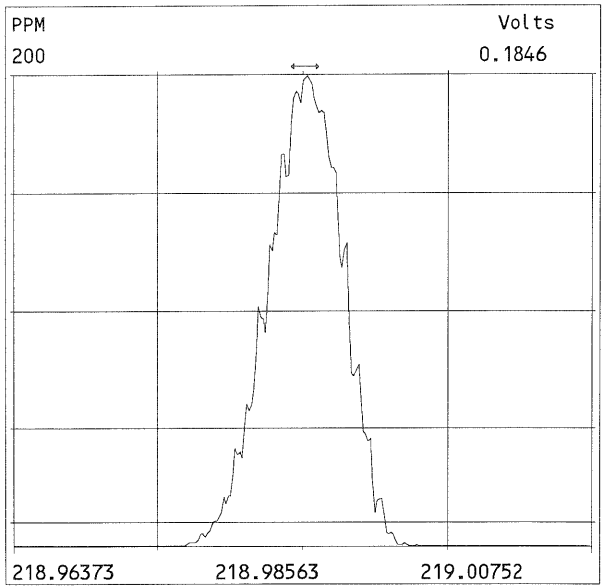


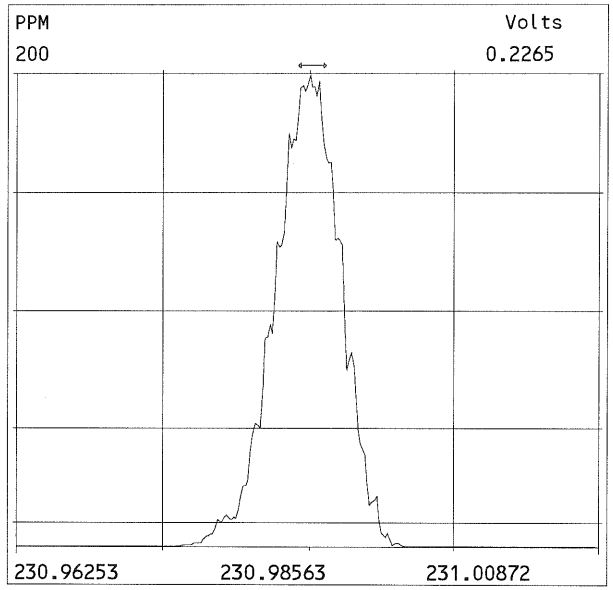


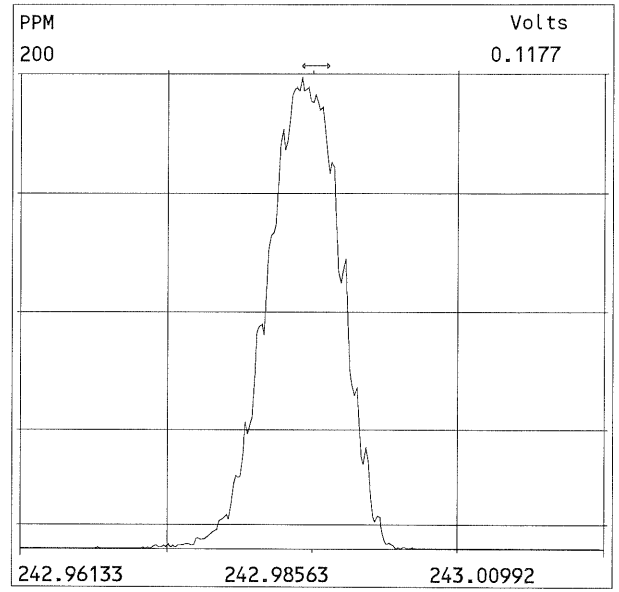


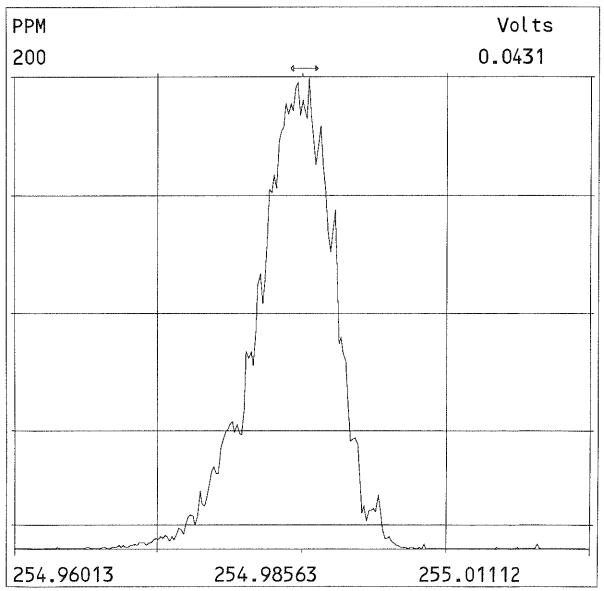


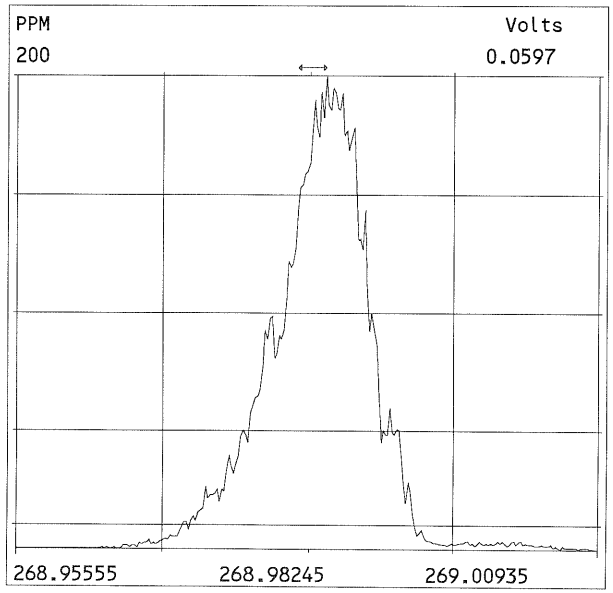
Peak Locate Examination:19-AUG-2016:06:54 File:18AUG16Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

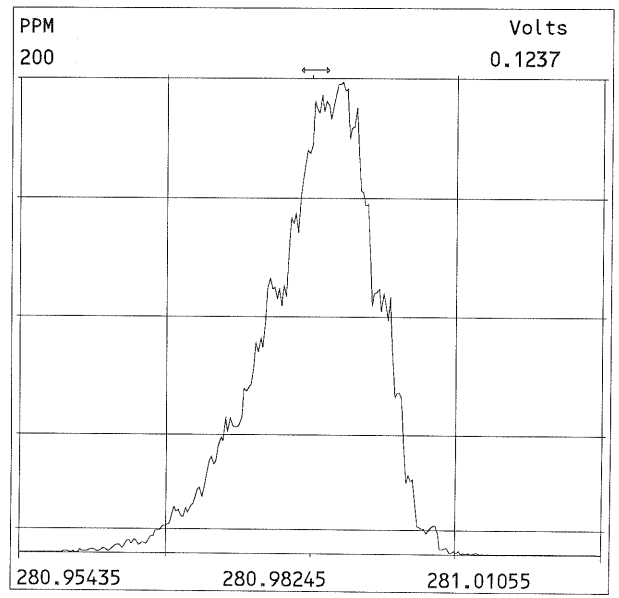




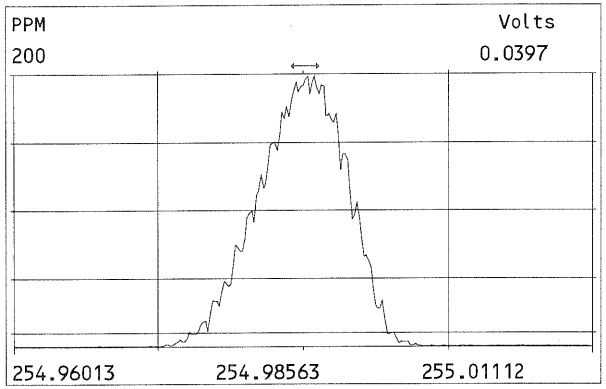


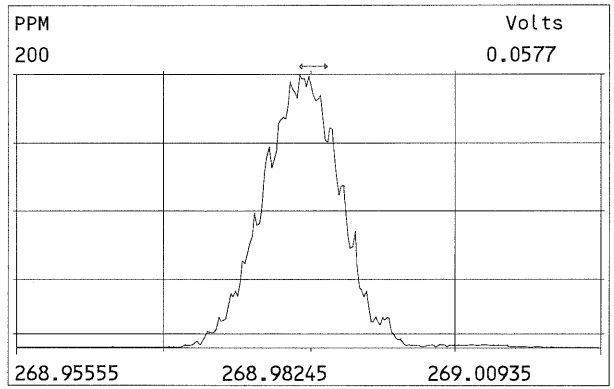


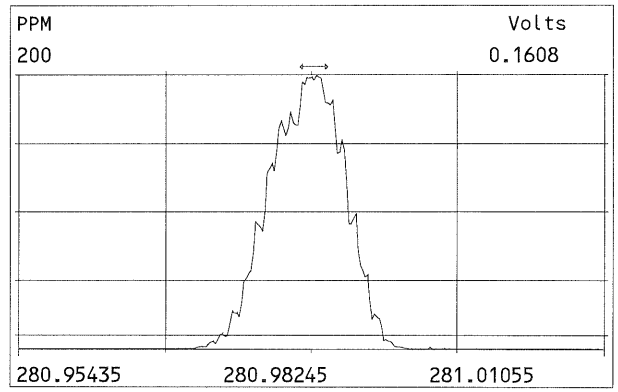


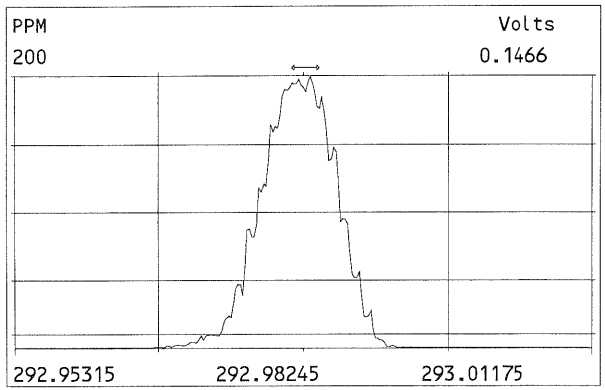


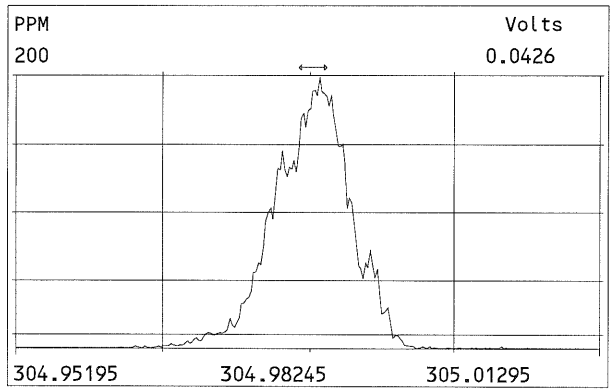
Peak Locate Examination:19-AUG-2016:06:55 File:18AUG16Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

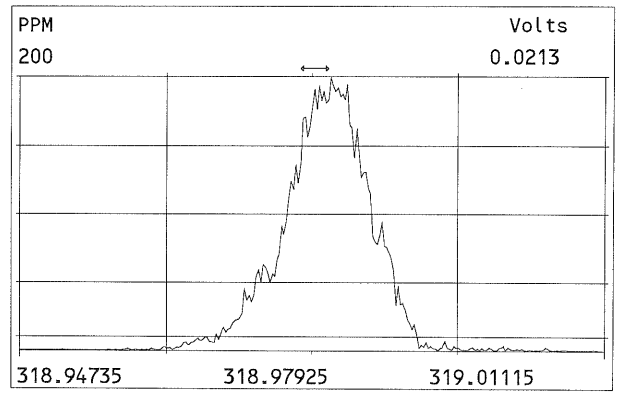


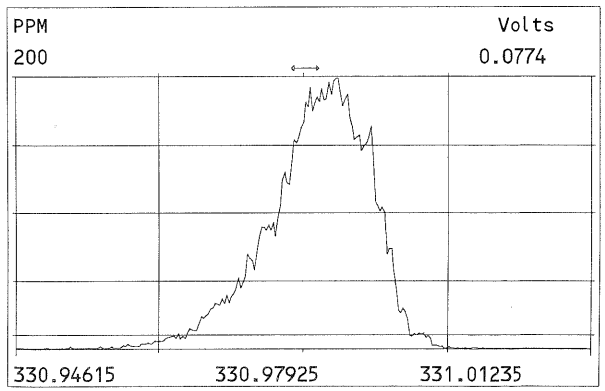


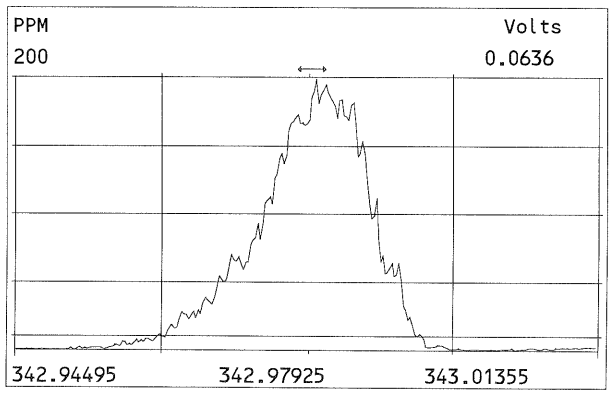




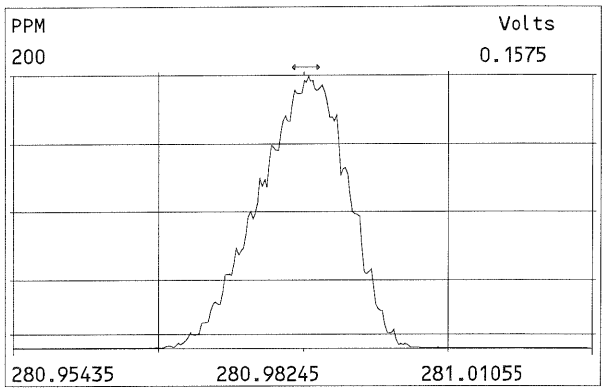


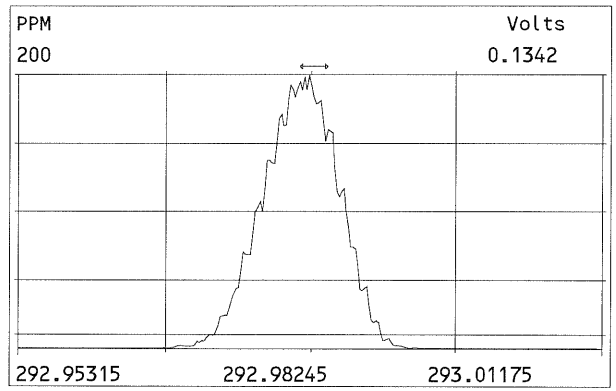


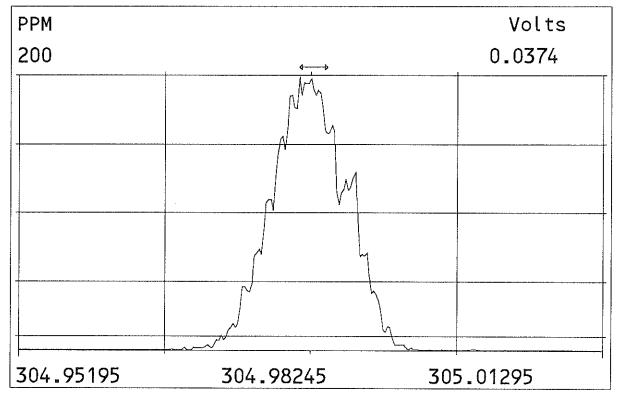


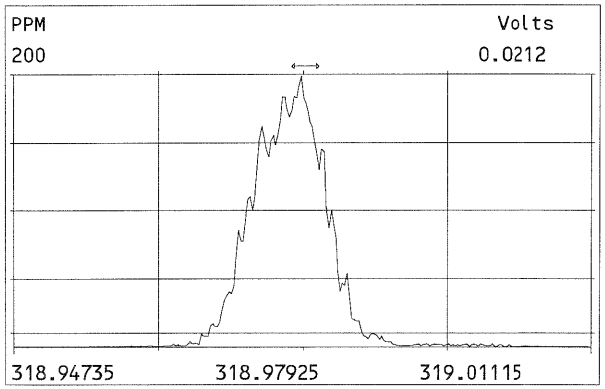


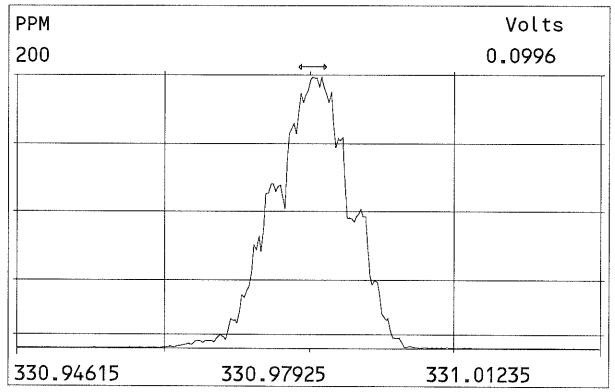
Peak Locate Examination:19-AUG-2016:06:55 File:18AUG16Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

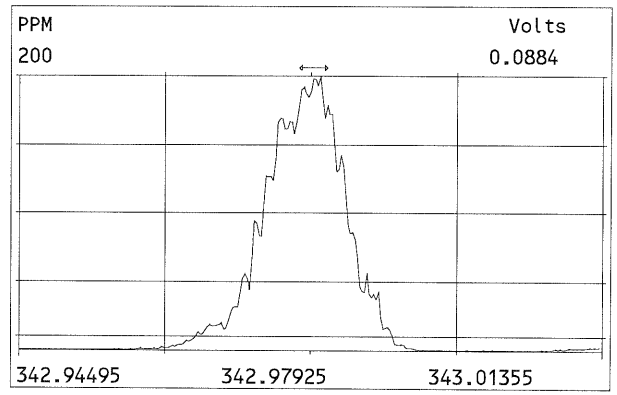


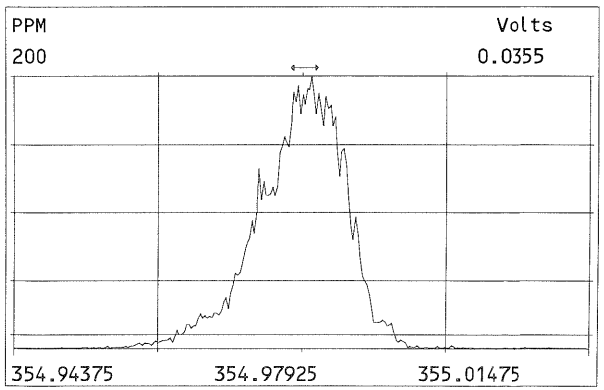


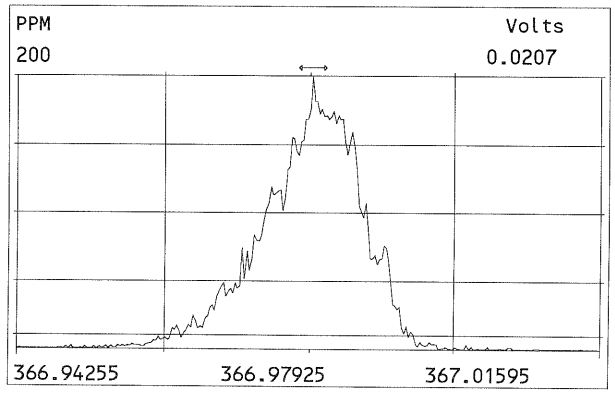


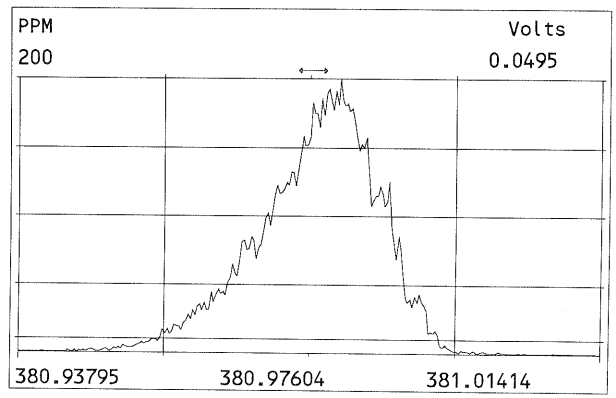




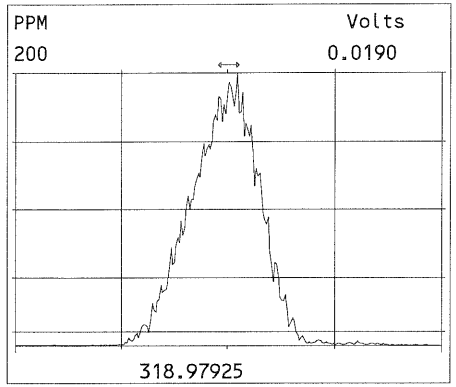


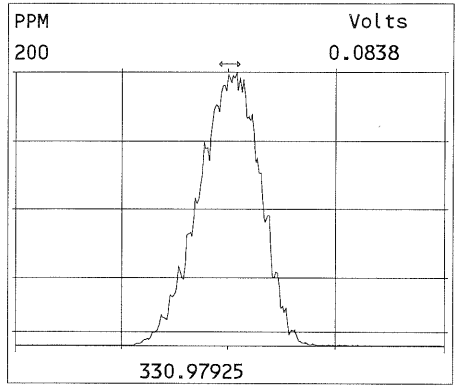


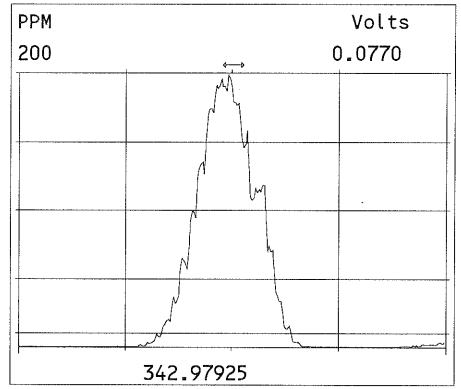


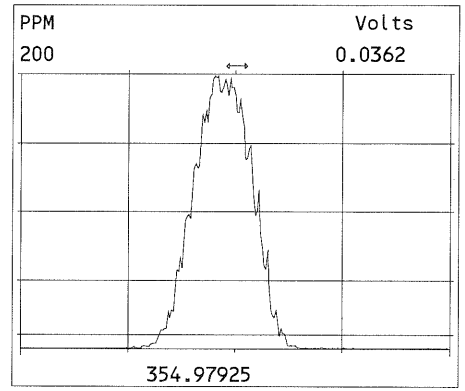


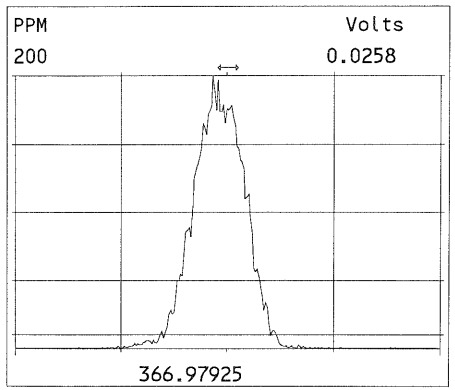
Peak Locate Examination:19-AUG-2016:06:56 File:18AUG16Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

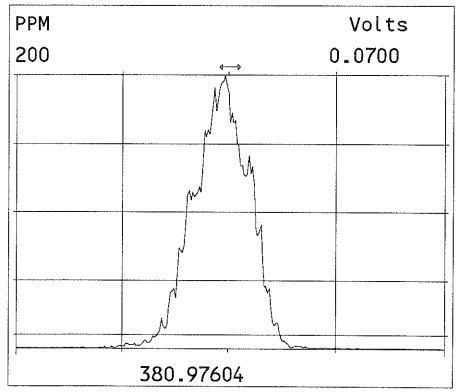


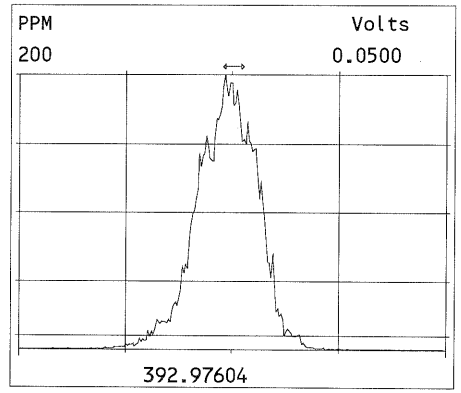


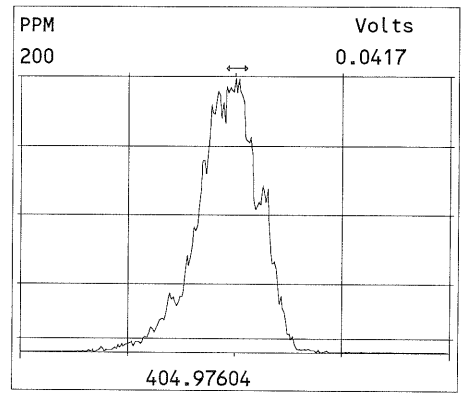


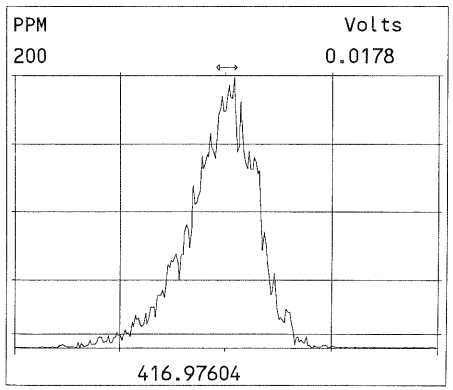


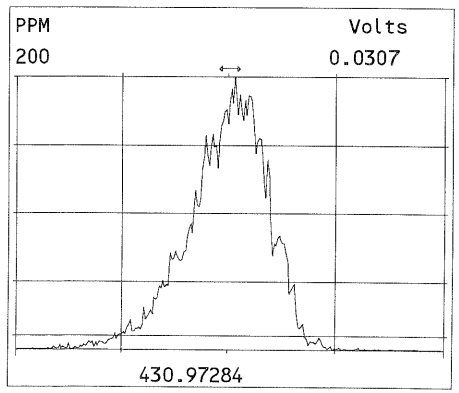


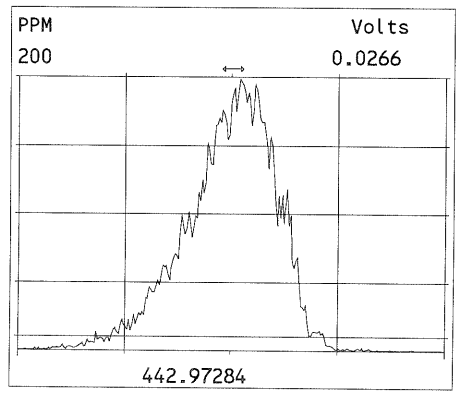




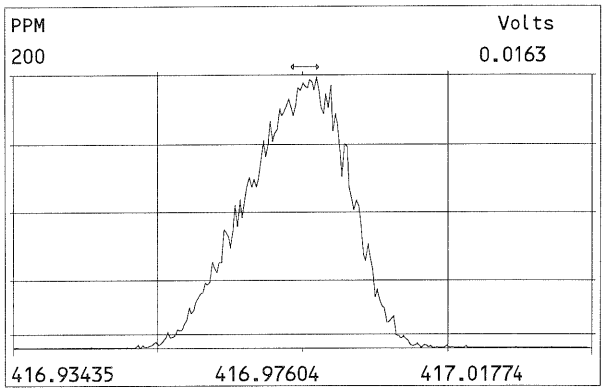


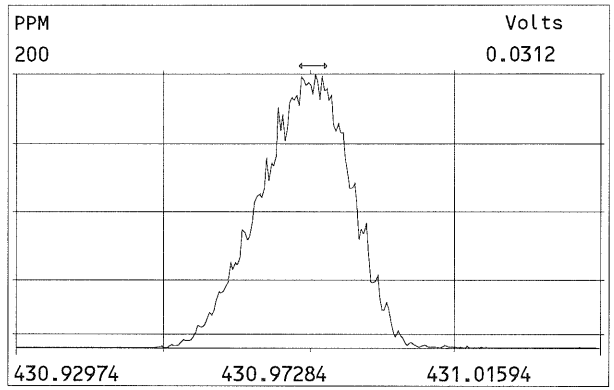


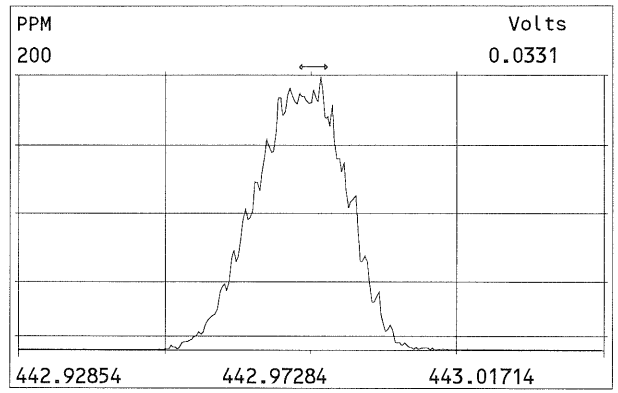


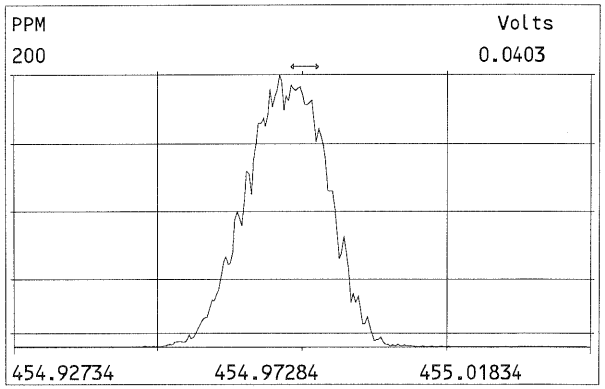


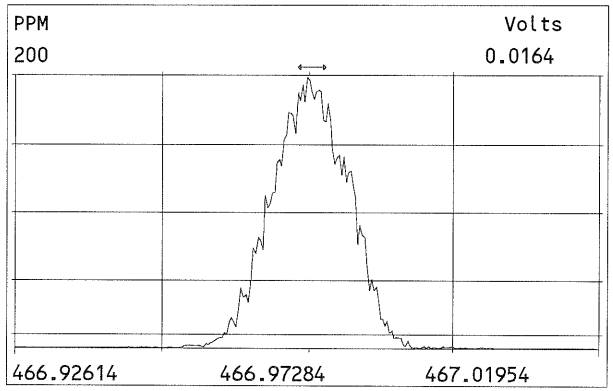
Peak Locate Examination:19-AUG-2016:06:56 File:18AUG16Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK

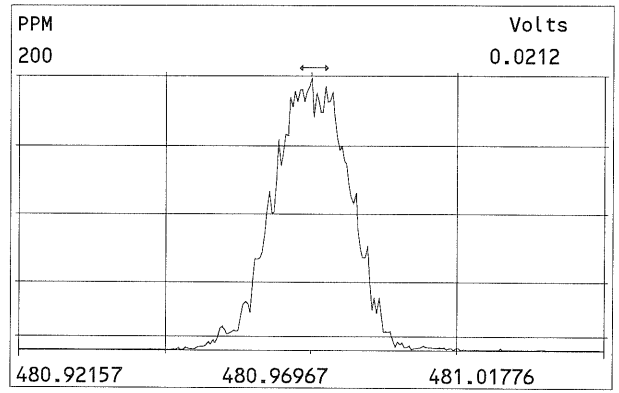


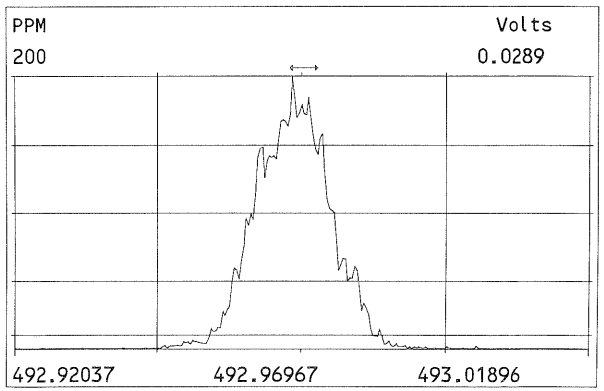


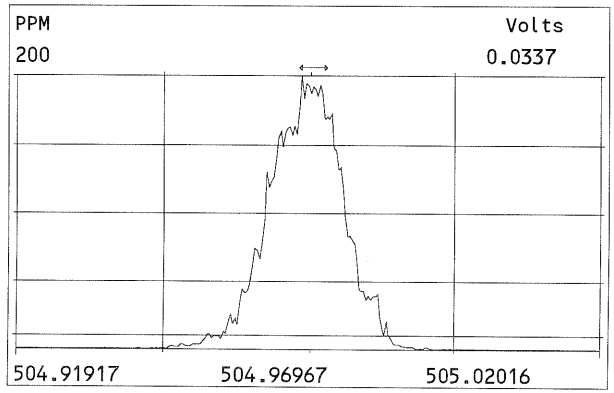


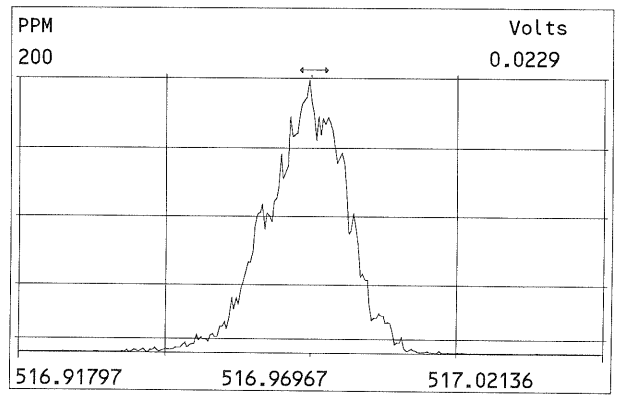












Cal: DAILY209FAL4-8-18-16

Run: 18AUG16Z Analyte: DAILY209FAL4-8-18-16 Results: Version: V3.6 21-MAY-2002 15:28:22

Data Filename:18AUG16Z S2

Name	Mean RRF	S. D.	RRF#1	
PCB-1	1.0356	-	1.04	
13C-PCB-1	1.1116	-	1.11	
PCB-2	0.8972	-	0.90	
PCB-3	1.0692	-	1.07	
13C-PCB-3	1.0283	-	1.03	
PCB-4	1.2184	*	1.22	
PCB-10	1.4199	-	1.42	
13C-PCB-4	0.5754	-	0.58	
PCB-9	1.4152	*	1.42	
PCB-7	1.4617	-	1.46	
PCB-6	1.4872	-	1.49	
PCB-8	1.2631	*	1.26	
PCB-5	1.4987	-	1.50	
PCB-14	1.4125	-	1.41	
PCB-11	1.2060	-	1.21	
PCB-13	1.1253	*	1.13	
PCB-12	1.2753	-	1.28	
PCB-15	1.2590	-	1.26	
13C-PCB-15	0.8841	-	0.88	
PCB-19	1.0694	-	1.07	
PCB-30	1.5090	-	1.51	
PCB-18	1.0009	-	1.00	
PCB-17	1.1253	-	1.13	
PCB-27	1.4132	-	1.41	
PCB-24	1.5374	-	1.54	
PCB-16	1.2688	-	1.27	
PCB-32	1.2481	-	1.25	
13C-PCB-19	0.5903	-	0.59	
13C-PCB-9	-	-	-	
PCB-34	1.0779	-	1.08	
PCB-23	1.3029	-	1.30	
PCB-29	1.2212	-	1.22	
PCB-26	1.1849	-	1.18	
PCB-25	1.5122	-	1.51	
PCB-31	1.1845	-	1.18	
PCB-28	1.4908	-	1.49	
PCB-20	1.2672	-	1.27	Co-elute PCB 21/33
PCB-21	1.2672	-	1.27	Co-elute PCB 20/33
PCB-33	1.2672	-	1.27	Co-elute PCB 20/21
PCB-22	1.2623	-	1.26	
PCB-36	1.1270	-	1.13	
PCB-39	1.1251	-	1.13	
PCB-38	1.1940	-	1.19	
PCB-35	1.0410	-	1.04	
PCB-37	1.2665	-	1.27	
13C-PCB-37	1.2197	-	1.22	

PCB-54	1.0788	-	1.08	
PCB-50	0.7865	-	0.79	
PCB-53	0.7784	-	0.78	
PCB-51	0.7791	-	0.78	
PCB-45	0.6787	-	0.68	
PCB-46	0.6463	-	0.65	
PCB-52	0.9529	-	0.95	Co-elute PCB 69
PCB-69	0.9529	-	0.95	Co-elute PCB 52
PCB-73	0.9378	-	0.94	
PCB-43	0.7338	-	0.73	Co-elute PCB 49
PCB-49	0.7338	-	0.73	Co-elute PCB 43
PCB-47	0.8901	-	0.89	
PCB-48	0.9297	-	0.93	Co-elute PCB 75
PCB-75	0.9297	-	0.93	Co-elute PCB 48
PCB-65	0.9574	-	0.96	
PCB-62	0.8845	-	0.88	
PCB-44	0.6589	-	0.66	
PCB-42	0.8986	-	0.90	Co-elute PCB 59
PCB-59	0.8986	-	0.90	Co-elute PCB 42
PCB-72	0.9646	-	0.96	Co-elute PCB 41/71/64
PCB-41	0.9646	-	0.96	Co-elute PCB 72/71/64
PCB-71	0.9646	-	0.96	Co-elute PCB 72/41/64
PCB-64	0.9646	-	0.96	Co-elute PCB 72/41/71
PCB-68	0.9872	-	0.99	
PCB-40	0.5744	-	0.57	
PCB-57	0.9535	-	0.95	
PCB-67	0.8709	-	0.87	
PCB-58	0.9985	-	1.00	
PCB-63	0.9507	-	0.95	
PCB-74	0.9686	-	0.97	
PCB-61	1.0238	-	1.02	Co-elute PCB 70
PCB-70	1.0238	-	1.02	Co-elute PCB 61
PCB-76	0.9967	-	1.00	Co-elute PCB 66
PCB-66	0.9967	-	1.00	Co-elute PCB 76
PCB-80	1.0798	-	1.08	
PCB-55	0.9811	-	0.98	
13C-PCB-54	1.2445	-	1.24	
PCB-104	1.1384	-	1.14	
PCB-96	1.0127	-	1.01	
PCB-103	0.8837	-	0.88	
PCB-100	0.8422	-	0.84	
PCB-94	0.7044	-	0.70	
PCB-98	0.9201	-	0.92	Co-elute PCB 102
PCB-102	0.9201	-	0.92	Co-elute PCB 98
PCB-95	0.7772	*	0.78	
PCB-93	0.6549	-	0.65	
PCB-88	0.7873	-	0.79	Co-elute PCB 91
PCB-91	0.7873	-	0.79	Co-elute PCB 88
PCB-121	0.9777	-	0.98	
13C-PCB-104	0.8688	-	0.87	
13C-PCB-28	1.4661	-	1.47	
13C-PCB-52	-	-	-	

PCB-56	1.2390	-	1.24	Co-elute PCB 60
PCB-60	1.2390	-	1.24	Co-elute PCB 56
PCB-79	1.1424	-	1.14	
PCB-78	1.0776	-	1.08	
PCB-81	1.1813	-	1.18	
13C-PCB-81	1.0699	-	1.07	
PCB-77	1.0803	-	1.08	
13C-PCB-77	1.0865	-	1.09	
PCB-155	1.0721	-	1.07	
PCB-150	0.9774	-	0.98	
PCB-152	0.9664	-	0.97	
PCB-145	0.9274	-	0.93	
PCB-136	0.9464	-	0.95	
PCB-148	0.6587	-	0.66	
PCB-154	0.7851	-	0.79	
13C-PCB-155	1.0621	-	1.06	
13C-PCB-111	1.1285	-	1.13	
13C-PCB-101	-	-	-	
PCB-84	0.8400	-	0.84	Co-elute PCB 92
PCB-92	0.8400	-	0.84	Co-elute PCB 84
PCB-89	0.8388	-	0.84	
PCB-90	0.9642	-	0.96	Co-elute PCB 101
PCB-101	0.9642	-	0.96	Co-elute PCB 90
PCB-113	1.1532	-	1.15	
PCB-99	0.9578	-	0.96	
PCB-119	1.2229	-	1.22	
PCB-83	0.9863	-	0.99	Co-elute PCB 112
PCB-112	0.9863	-	0.99	Co-elute PCB 83
PCB-109	1.1416	-	1.14	
PCB-97	1.0046	-	1.00	
PCB-86	0.7908	-	0.79	
PCB-125	1.1056	-	1.11	Co-elute PCB 87/117
PCB-87	1.1056	-	1.11	Co-elute PCB 125/117
PCB-117	1.1056	-	1.11	Co-elute PCB 125/87
PCB-111	1.3243	-	1.32	Co-elute PCB 115
PCB-115	1.3243	-	1.32	Co-elute PCB 111
PCB-85	1.0348	-	1.03	Co-elute PCB 116
PCB-116	1.0348	-	1.03	Co-elute PCB 85
PCB-120	1.2440	-	1.24	
PCB-110	1.2745	-	1.27	
PCB-82	0.6982	-	0.70	
PCB-124	1.0957	-	1.10	
PCB-108	1.1718	-	1.17	Co-elute PCB 107
PCB-107	1.1718	-	1.17	Co-elute PCB 108
PCB-123	1.2426	-	1.24	
13C-PCB-123	1.0927	-	1.09	
PCB-118	1.0823	-	1.08	Co-elute PCB 106
PCB-106	1.0823	-	1.08	Co-elute PCB 118
13C-PCB-118	1.1853	-	1.19	
PCB-114	1.0795	-	1.08	
13C-PCB-114	1.1126	-	1.11	
PCB-122	1.1302	-	1.13	
PCB-105	1.1272	-	1.13	
13C-PCB-105	1.1352	-	1.14	
PCB-127	1.0286	-	1.03	
PCB-126	1.1395	-	1.14	
13C-PCB-126	0.9723	-	0.97	

PCB-151	0.8648	-	0.86	
PCB-135	0.9359	-	0.94	
PCB-144	0.9107	-	0.91	
PCB-147	0.9449	-	0.94	
PCB-139	0.9695	-	0.97	Co-elute PCB 149
PCB-149	0.9695	-	0.97	Co-elute PCB 139
PCB-140	0.9173	-	0.92	
PCB-143	0.8718	-	0.87	Co-elute PCB 134
PCB-134	0.8718	-	0.87	Co-elute PCB 143
PCB-131	0.8783	-	0.88	Co-elute PCB 131
PCB-133	0.8783	-	0.88	Co-elute PCB 142
PCB-142	0.7727	-	0.77	
PCB-165	1.0534	-	1.05	Co-elute PCB 146
PCB-146	1.0534	-	1.05	Co-elute PCB 165
PCB-161	0.9886	-	0.99	Co-elute PCB 132
PCB-132	0.9886	-	0.99	Co-elute PCB 161
PCB-153	1.0234	-	1.02	
PCB-168	1.1521	-	1.15	
PCB-141	0.8790	-	0.88	
PCB-137	0.8551	-	0.86	
PCB-130	0.7149	-	0.71	
PCB-138	1.1376	-	1.14	Co-elute PCB 163/164
PCB-163	1.1376	-	1.14	Co-elute PCB 138/164
PCB-164	1.1376	-	1.14	Co-elute PCB 138/163
PCB-158	1.1217	-	1.12	Co-elute PCB 160
PCB-160	1.1217	-	1.12	Co-elute PCB 158
PCB-129	0.6864	-	0.69	
PCB-166	1.0543	-	1.05	
PCB-159	1.1260	-	1.13	
PCB-128	0.9366	-	0.94	Co-elute PCB 162
PCB-162	0.9366	-	0.94	Co-elute PCB 128
PCB-167	0.9643	-	0.96	
13C-PCB-167	1.1438	-	1.14	
PCB-156	1.0351	-	1.04	
13C-PCB-156	1.0715	-	1.07	
PCB-157	0.9598	-	0.96	
13C-PCB-157	1.0855	-	1.09	
PCB-169	0.9226	-	0.92	
13C-PCB-169	0.9236	-	0.92	
PCB-188	1.1237	-	1.12	
13C-PCB-188	1.2460	-	1.25	

PCB-184	1.3549	-	1.35	
PCB-179	1.2947	-	1.29	
PCB-176	1.2198	-	1.22	
PCB-186	1.2340	-	1.23	
PCB-178	0.8637	-	0.86	
PCB-175	0.9134	-	0.91	
PCB-187	0.9859	-	0.99	Co-elute PCB 182
PCB-182	0.9859	-	0.99	Co-elute PCB 187
PCB-183	0.9725	-	0.97	
PCB-185	0.8631	-	0.86	
PCB-174	0.8669	-	0.87	
PCB-181	0.8856	-	0.89	
PCB-177	0.7884	-	0.79	
PCB-171	0.8277	-	0.83	
PCB-173	0.7447	-	0.74	
PCB-172	0.7638	-	0.76	
PCB-192	1.0517	-	1.05	
PCB-180	1.0079	-	1.01	
PCB-193	1.1070	-	1.11	
PCB-191	1.0239	-	1.02	
PCB-170	0.6763	-	0.68	
PCB-190	0.9736	-	0.97	
PCB-189	1.0884	-	1.09	
13C-PCB-189	0.8163	-	0.82	
PCB-202	1.0019	-	1.00	
PCB-201	0.9871	-	0.99	
PCB-204	1.0302	-	1.03	
PCB-197	1.0596	-	1.06	
PCB-200	0.9859	-	0.99	
PCB-198	0.6983	-	0.70	
PCB-199	0.6118	-	0.61	
PCB-203	0.6953	-	0.70	Co-elute PCB 196
PCB-196	0.6953	-	0.70	Co-elute PCB 203
13C-PCB-202	0.8910	-	0.89	
13C-PCB-178	0.8086	-	0.81	
13C-PCB-138	-	-	-	
PCB-195	0.7470	-	0.75	
PCB-194	0.8104	-	0.81	
PCB-205	1.0287	-	1.03	
13C-PCB-205	1.2504	-	1.25	
PCB-208	0.9243	-	0.92	
13C-PCB-208	1.3729	-	1.37	
PCB-207	1.0081	-	1.01	
PCB-206	0.9917	-	0.99	
13C-PCB-206	0.9174	-	0.92	
PCB-209	1.0686	-	1.07	
13C-PCB-209	1.4321	-	1.43	
13C-PCB-194	-	-	-	

Analyst: [illegible] Date: 8/19/12

Run #1 Filename 18AUG16Z S: 2 Acquired: 18-AUG-16 17:50:51 Cal: DAILY209FAL4-8-18-16
Client ID: SS081816Z1 Analyte: FAL ID: Daily 209 160711B

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	PCB-1	50.00	5.60e+07	3.18 y	14:29	-	1.04	
2	IS/RT	13C-PCB-1	100.00	1.08e+08	3.12 y	14:28	-	1.11	
3	Unk	PCB-2	50.00	4.67e+07	3.18 y	16:43	-	0.897	
4	Unk	PCB-3	50.00	5.34e+07	3.16 y	16:56	-	1.07	
5	IS/RT	13C-PCB-3	100.00	1.00e+08	3.17 y	16:55	-	1.03	
6	Unk	PCB-4	50.00	3.41e+07	1.48 y	18:10	-	1.22	
7	Unk	PCB-10	50.00	5.04e+07	1.61 y	18:12	-	1.42	
8	IS/RT	13C-PCB-4	100.00	5.59e+07	1.60 y	18:08	-	0.575	
9	Unk	PCB-9	50.00	5.02e+07	1.57 y	19:51	-	1.42	
10	Unk	PCB-7	50.00	5.19e+07	1.56 y	19:53	-	1.46	
11	Unk	PCB-6	50.00	5.28e+07	1.56 y	20:28	-	1.49	
12	Unk	PCB-8	50.00	4.48e+07	1.52 y	20:51	-	1.26	
13	Unk	PCB-5	50.00	5.32e+07	1.55 y	20:52	-	1.50	
14	Unk	PCB-14	50.00	5.01e+07	1.59 y	21:55	-	1.41	
15	Unk	PCB-11	50.00	4.28e+07	1.59 y	23:03	-	1.21	
16	Unk	PCB-13	50.00	3.99e+07	1.53 y	23:25	-	1.13	
17	Unk	PCB-12	50.00	4.52e+07	1.63 y	23:26	-	1.28	
18	Unk	PCB-15	50.00	5.41e+07	1.59 y	23:42	-	1.26	
19	IS/RT	13C-PCB-15	100.00	8.60e+07	1.57 y	23:41	-	0.884	
20	Unk	PCB-19	50.00	3.07e+07	1.04 y	22:02	-	1.07	
21	Unk	PCB-30	50.00	4.33e+07	1.04 y	22:53	-	1.51	
22	Unk	PCB-18	50.00	2.87e+07	1.05 y	23:34	-	1.00	
23	Unk	PCB-17	50.00	3.23e+07	1.04 y	23:45	-	1.13	
24	Unk	PCB-27	50.00	4.06e+07	1.06 y	24:17	-	1.41	
25	Unk	PCB-24	50.00	4.41e+07	1.03 y	24:18	-	1.54	
26	Unk	PCB-16	50.00	3.64e+07	1.03 y	24:46	-	1.27	
27	Unk	PCB-32	50.00	3.58e+07	1.05 y	24:47	-	1.25	
28	IS/RT	13C-PCB-19	100.00	5.74e+07	1.08 y	22:01	-	0.590	
29	RS	13C-PCB-9	100.00	9.72e+07	1.61 y	19:48	9.72e+05	-	
30	Unk	PCB-34	50.00	3.67e+07	1.03 y	25:32	-	1.08	
31	Unk	PCB-23	50.00	4.43e+07	1.06 y	25:38	-	1.30	
32	Unk	PCB-29	50.00	4.15e+07	1.02 y	25:52	-	1.22	
33	Unk	PCB-26	50.00	4.03e+07	1.05 y	26:03	-	1.18	
34	Unk	PCB-25	50.00	5.14e+07	1.05 y	26:14	-	1.51	
35	Unk	PCB-31	50.00	4.03e+07	1.03 y	26:34	-	1.18	
36	Unk	PCB-28	50.00	5.07e+07	1.06 y	26:39	-	1.49	
37	Unk	PCB-20	150.00	1.29e+08	1.03 y	27:14	-	1.27	Co-elute PCB 21/33
38	Unk	PCB-21	150.00	1.29e+08	1.03 y	27:14	-	1.27	Co-elute PCB 20/33
39	Unk	PCB-33	150.00	1.29e+08	1.03 y	27:14	-	1.27	Co-elute PCB 20/21
40	Unk	PCB-22	50.00	4.29e+07	1.02 y	27:39	-	1.26	
41	Unk	PCB-36	50.00	3.83e+07	1.05 y	28:15	-	1.13	
42	Unk	PCB-39	50.00	3.83e+07	1.04 y	28:43	-	1.13	
43	Unk	PCB-38	50.00	4.06e+07	1.04 y	29:26	-	1.19	
44	Unk	PCB-35	50.00	3.54e+07	1.05 y	29:56	-	1.04	
45	Unk	PCB-37	50.00	4.31e+07	1.05 y	30:21	-	1.27	
46	IS	13C-PCB-37	100.00	6.80e+07	1.08 y	30:20	-	1.22	

47	Unk	PCB-54	100.00	7.49e+07	0.78	y	25:33	-	1.08	
48	Unk	PCB-50	100.00	5.46e+07	0.78	y	26:40	-	0.787	
49	Unk	PCB-53	100.00	5.40e+07	0.78	y	27:15	-	0.778	
50	Unk	PCB-51	100.00	5.41e+07	0.78	y	27:36	-	0.779	
51	Unk	PCB-45	100.00	4.71e+07	0.78	y	28:01	-	0.679	
52	Unk	PCB-46	100.00	4.49e+07	0.78	y	28:28	-	0.646	
53	Unk	PCB-52	200.00	1.32e+08	0.77	y	28:55	-	0.953	Co-elute PCB 69
54	Unk	PCB-69	200.00	1.32e+08	0.77	y	28:55	-	0.953	Co-elute PCB 52
55	Unk	PCB-73	100.00	6.51e+07	0.80	y	29:02	-	0.938	
56	Unk	PCB-43	200.00	1.02e+08	0.76	y	29:11	-	0.734	Co-elute PCB 49
57	Unk	PCB-49	200.00	1.02e+08	0.76	y	29:11	-	0.734	Co-elute PCB 43
58	Unk	PCB-47	100.00	6.18e+07	0.77	y	29:23	-	0.890	
59	Unk	PCB-48	200.00	1.29e+08	0.78	y	29:29	-	0.930	Co-elute PCB 75
60	Unk	PCB-75	200.00	1.29e+08	0.78	y	29:29	-	0.930	Co-elute PCB 48
61	Unk	PCB-65	100.00	6.64e+07	0.76	y	29:45	-	0.957	
62	Unk	PCB-62	100.00	6.14e+07	0.78	y	29:51	-	0.884	
63	Unk	PCB-44	100.00	4.57e+07	0.78	y	30:07	-	0.659	
64	Unk	PCB-42	200.00	1.25e+08	0.78	y	30:21	-	0.899	Co-elute PCB 59
65	Unk	PCB-59	200.00	1.25e+08	0.78	y	30:21	-	0.899	Co-elute PCB 42
66	Unk	PCB-72	400.00	2.68e+08	0.77	y	30:54	-	0.965	Co-elute PCB 41/71/64
67	Unk	PCB-41	400.00	2.68e+08	0.77	y	30:54	-	0.965	Co-elute PCB 72/71/64
68	Unk	PCB-71	400.00	2.68e+08	0.77	y	30:54	-	0.965	Co-elute PCB 72/41/64
69	Unk	PCB-64	400.00	2.68e+08	0.77	y	30:54	-	0.965	Co-elute PCB 72/41/71
70	Unk	PCB-68	100.00	6.85e+07	0.78	y	31:09	-	0.987	
71	Unk	PCB-40	100.00	3.99e+07	0.76	y	31:21	-	0.574	
72	Unk	PCB-57	100.00	6.62e+07	0.78	y	31:42	-	0.953	
73	Unk	PCB-67	100.00	6.04e+07	0.76	y	32:00	-	0.871	
74	Unk	PCB-58	100.00	6.93e+07	0.79	y	32:06	-	0.999	
75	Unk	PCB-63	100.00	6.60e+07	0.77	y	32:15	-	0.951	
76	Unk	PCB-74	100.00	6.72e+07	0.77	y	32:32	-	0.969	
77	Unk	PCB-61	200.00	1.42e+08	0.77	y	32:43	-	1.02	Co-elute PCB 70
78	Unk	PCB-70	200.00	1.42e+08	0.77	y	32:43	-	1.02	Co-elute PCB 61
79	Unk	PCB-76	200.00	1.38e+08	0.78	y	32:56	-	0.997	Co-elute PCB 66
80	Unk	PCB-66	200.00	1.38e+08	0.78	y	32:56	-	0.997	Co-elute PCB 76
81	Unk	PCB-80	100.00	7.49e+07	0.78	y	33:08	-	1.08	
82	Unk	PCB-55	100.00	6.81e+07	0.77	y	33:26	-	0.981	
83	IS/RT	13C-PCB-54	100.00	6.94e+07	0.79	y	25:32	-	1.24	
84	Unk	PCB-104	100.00	5.52e+07	1.56	y	30:00	-	1.14	
85	Unk	PCB-96	100.00	4.91e+07	1.58	y	31:11	-	1.01	
86	Unk	PCB-103	100.00	4.28e+07	1.58	y	31:41	-	0.884	
87	Unk	PCB-100	100.00	4.08e+07	1.58	y	32:01	-	0.842	
88	Unk	PCB-94	100.00	3.41e+07	1.58	y	32:28	-	0.704	
89	Unk	PCB-98	200.00	8.92e+07	1.54	y	32:54	-	0.920	Co-elute PCB 102
90	Unk	PCB-102	200.00	8.92e+07	1.54	y	32:54	-	0.920	Co-elute PCB 98
91	Unk	PCB-95	100.00	3.77e+07	1.64	y	32:58	-	0.777	
92	Unk	PCB-93	100.00	3.17e+07	1.64	y	33:03	-	0.655	
93	Unk	PCB-88	200.00	7.63e+07	1.60	y	33:22	-	0.787	Co-elute PCB 91
94	Unk	PCB-91	200.00	7.63e+07	1.60	y	33:22	-	0.787	Co-elute PCB 88
95	Unk	PCB-121	100.00	4.74e+07	1.53	y	33:26	-	0.978	
96	IS	13C-PCB-104	100.00	4.85e+07	1.63	y	29:57	-	0.869	
97	C/Up	13C-PCB-28	100.00	8.18e+07	1.08	y	26:38	-	1.47	
98	RS	13C-PCB-52	100.00	5.58e+07	0.78	y	28:53	5.58e+05	-	
99	Unk	PCB-56	200.00	1.32e+08	0.78	y	33:55	-	1.24	Co-elute PCB 60
100	Unk	PCB-60	200.00	1.32e+08	0.78	y	33:55	-	1.24	Co-elute PCB 56

101	Unk	PCB-79	100.00	6.10e+07	0.78	y	34:57	-	1.14	
102	Unk	PCB-78	100.00	5.76e+07	0.77	y	35:36	-	1.08	
103	Unk	PCB-81	100.00	6.26e+07	0.80	y	36:06	-	1.18	
104	IS	13C-PCB-81	100.00	5.30e+07	0.80	y	36:05	-	1.07	
105	Unk	PCB-77	100.00	5.82e+07	0.80	y	36:40	-	1.08	
106	IS/RT	13C-PCB-77	100.00	5.38e+07	0.78	y	36:39	-	1.09	
107	Unk	PCB-155	100.00	5.64e+07	1.27	y	34:09	-	1.07	
108	Unk	PCB-150	100.00	5.14e+07	1.28	y	35:21	-	0.977	
109	Unk	PCB-152	100.00	5.09e+07	1.27	y	35:47	-	0.966	
110	Unk	PCB-145	100.00	4.88e+07	1.26	y	36:13	-	0.927	
111	Unk	PCB-136	100.00	4.98e+07	1.27	y	36:30	-	0.946	
112	Unk	PCB-148	100.00	3.47e+07	1.30	y	36:37	-	0.659	
113	Unk	PCB-154	100.00	4.13e+07	1.26	y	37:04	-	0.785	
114	IS	13C-PCB-155	100.00	5.26e+07	1.27	y	34:07	-	1.06	
115	C/Up	13C-PCB-111	100.00	5.59e+07	1.57	y	36:13	-	1.13	
116	RS	13C-PCB-101	100.00	4.96e+07	1.60	y	34:34	4.96e+05	-	
117	Unk	PCB-84	200.00	7.98e+07	1.59	y	34:14	-	0.840	Co-elute PCB 92
118	Unk	PCB-92	200.00	7.98e+07	1.59	y	34:14	-	0.840	Co-elute PCB 84
119	Unk	PCB-89	100.00	3.99e+07	1.54	y	34:24	-	0.839	
120	Unk	PCB-90	200.00	9.17e+07	1.56	y	34:34	-	0.964	Co-elute PCB 101
121	Unk	PCB-101	200.00	9.17e+07	1.56	y	34:34	-	0.964	Co-elute PCB 90
122	Unk	PCB-113	100.00	5.48e+07	1.55	y	34:48	-	1.15	
123	Unk	PCB-99	100.00	4.55e+07	1.60	y	34:54	-	0.958	
124	Unk	PCB-119	100.00	5.81e+07	1.57	y	35:21	-	1.22	
125	Unk	PCB-83	200.00	9.38e+07	1.58	y	35:30	-	0.986	Co-elute PCB 112
126	Unk	PCB-112	200.00	9.38e+07	1.58	y	35:30	-	0.986	Co-elute PCB 83
127	Unk	PCB-109	100.00	5.43e+07	1.57	y	35:38	-	1.14	
128	Unk	PCB-97	100.00	4.77e+07	1.55	y	35:50	-	1.00	
129	Unk	PCB-86	100.00	3.76e+07	1.53	y	35:59	-	0.791	
130	Unk	PCB-125	300.00	1.58e+08	1.55	y	36:06	-	1.11	Co-elute PCB 87/117
131	Unk	PCB-87	300.00	1.58e+08	1.55	y	36:06	-	1.11	Co-elute PCB 125/117
132	Unk	PCB-117	300.00	1.58e+08	1.55	y	36:06	-	1.11	Co-elute PCB 125/87
133	Unk	PCB-111	200.00	1.26e+08	1.55	y	36:14	-	1.32	Co-elute PCB 115
134	Unk	PCB-115	200.00	1.26e+08	1.55	y	36:14	-	1.32	Co-elute PCB 111
135	Unk	PCB-85	200.00	9.84e+07	1.56	y	36:21	-	1.03	Co-elute PCB 116
136	Unk	PCB-116	200.00	9.84e+07	1.56	y	36:21	-	1.03	Co-elute PCB 85
137	Unk	PCB-120	100.00	5.91e+07	1.55	y	36:35	-	1.24	
138	Unk	PCB-110	100.00	6.06e+07	1.55	y	36:43	-	1.27	
139	Unk	PCB-82	100.00	3.32e+07	1.58	y	37:18	-	0.698	
140	Unk	PCB-124	100.00	5.21e+07	1.56	y	37:58	-	1.10	
141	Unk	PCB-108	200.00	1.11e+08	1.52	y	38:06	-	1.17	Co-elute PCB 107
142	Unk	PCB-107	200.00	1.11e+08	1.52	y	38:06	-	1.17	Co-elute PCB 108
143	Unk	PCB-123	100.00	5.70e+07	1.52	y	38:16	-	1.24	
144	IS	13C-PCB-123	100.00	4.59e+07	1.60	y	38:14	-	1.09	
145	Unk	PCB-118	200.00	1.08e+08	1.56	y	38:27	-	1.08	Co-elute PCB 106
146	Unk	PCB-106	200.00	1.08e+08	1.56	y	38:27	-	1.08	Co-elute PCB 118
147	IS	13C-PCB-118	100.00	4.98e+07	1.60	y	38:26	-	1.19	
148	Unk	PCB-114	100.00	5.05e+07	1.54	y	39:04	-	1.08	
149	IS	13C-PCB-114	100.00	4.67e+07	1.58	y	39:02	-	1.11	
150	Unk	PCB-122	100.00	5.37e+07	1.57	y	39:10	-	1.13	
151	Unk	PCB-105	100.00	5.38e+07	1.53	y	39:53	-	1.13	
152	IS	13C-PCB-105	100.00	4.77e+07	1.62	y	39:51	-	1.14	
153	Unk	PCB-127	100.00	4.89e+07	1.56	y	40:13	-	1.03	
154	Unk	PCB-126	100.00	4.65e+07	1.54	y	42:01	-	1.14	
155	IS	13C-PCB-126	100.00	4.08e+07	1.64	y	41:60	-	0.972	

156	Unk	PCB-151	100.00	3.84e+07	1.27	y	37:41	-	0.865	
157	Unk	PCB-135	100.00	4.15e+07	1.23	y	37:54	-	0.936	
158	Unk	PCB-144	100.00	4.04e+07	1.28	y	38:01	-	0.911	
159	Unk	PCB-147	100.00	4.19e+07	1.25	y	38:08	-	0.945	
160	Unk	PCB-139	200.00	8.60e+07	1.25	y	38:22	-	0.970	Co-elute PCB 149
161	Unk	PCB-149	200.00	8.60e+07	1.25	y	38:22	-	0.970	Co-elute PCB 139
162	Unk	PCB-140	100.00	4.07e+07	1.26	y	38:34	-	0.917	
163	Unk	PCB-143	200.00	7.74e+07	1.24	y	38:57	-	0.872	Co-elute PCB 134
164	Unk	PCB-134	200.00	7.74e+07	1.24	y	38:57	-	0.872	Co-elute PCB 143
165	Unk	PCB-131	200.00	7.79e+07	1.25	y	39:15	-	0.878	Co-elute PCB 133
166	Unk	PCB-133	200.00	7.79e+07	1.25	y	39:15	-	0.878	Co-elute PCB 131
167	Unk	PCB-142	100.00	3.43e+07	1.26	y	39:23	-	0.773	
168	Unk	PCB-165	200.00	9.35e+07	1.26	y	39:37	-	1.05	Co-elute PCB 146
169	Unk	PCB-146	200.00	9.35e+07	1.26	y	39:37	-	1.05	Co-elute PCB 165
170	Unk	PCB-161	200.00	8.77e+07	1.26	y	39:50	-	0.989	Co-elute PCB 132
171	Unk	PCB-132	200.00	8.77e+07	1.26	y	39:50	-	0.989	Co-elute PCB 161
172	Unk	PCB-153	100.00	4.54e+07	1.24	y	39:60	-	1.02	
173	Unk	PCB-168	100.00	5.11e+07	1.27	y	40:11	-	1.15	
174	Unk	PCB-141	100.00	3.90e+07	1.26	y	40:42	-	0.879	
175	Unk	PCB-137	100.00	3.79e+07	1.24	y	41:04	-	0.855	
176	Unk	PCB-130	100.00	3.17e+07	1.26	y	41:09	-	0.715	
177	Unk	PCB-138	300.00	1.51e+08	1.25	y	41:32	-	1.14	Co-elute PCB 163/164
178	Unk	PCB-163	300.00	1.51e+08	1.25	y	41:32	-	1.14	Co-elute PCB 138/164
179	Unk	PCB-164	300.00	1.51e+08	1.25	y	41:32	-	1.14	Co-elute PCB 138/163
180	Unk	PCB-158	200.00	9.95e+07	1.26	y	41:47	-	1.12	Co-elute PCB 160
181	Unk	PCB-160	200.00	9.95e+07	1.26	y	41:47	-	1.12	Co-elute PCB 158
182	Unk	PCB-129	100.00	3.05e+07	1.24	y	41:58	-	0.686	
183	Unk	PCB-166	100.00	4.68e+07	1.24	y	42:24	-	1.05	
184	Unk	PCB-159	100.00	5.00e+07	1.23	y	42:43	-	1.13	
185	Unk	PCB-128	200.00	8.31e+07	1.24	y	42:59	-	0.937	Co-elute PCB 162
186	Unk	PCB-162	200.00	8.31e+07	1.24	y	42:59	-	0.937	Co-elute PCB 128
187	Unk	PCB-167	100.00	4.63e+07	1.23	y	43:22	-	0.964	
188	IS	13C-PCB-167	100.00	4.80e+07	1.27	y	43:20	-	1.14	
189	Unk	PCB-156	100.00	4.66e+07	1.24	y	44:34	-	1.04	
190	IS	13C-PCB-156	100.00	4.50e+07	1.27	y	44:34	-	1.07	
191	Unk	PCB-157	100.00	4.38e+07	1.25	y	44:51	-	0.960	
192	IS	13C-PCB-157	100.00	4.56e+07	1.25	y	44:49	-	1.09	
193	Unk	PCB-169	100.00	3.58e+07	1.24	y	46:45	-	0.923	
194	IS	13C-PCB-169	100.00	3.88e+07	1.30	y	46:43	-	0.924	
195	Unk	PCB-188	100.00	5.88e+07	1.05	y	39:38	-	1.12	
196	IS	13C-PCB-188	100.00	5.23e+07	1.07	y	39:37	-	1.25	

197	Unk	PCB-184	100.00	5.87e+07	1.05	y	40:03	-	1.35	
198	Unk	PCB-179	100.00	5.61e+07	1.06	y	40:47	-	1.29	
199	Unk	PCB-176	100.00	5.28e+07	1.06	y	41:14	-	1.22	
200	Unk	PCB-186	100.00	5.35e+07	1.07	y	41:48	-	1.23	
201	Unk	PCB-178	100.00	3.74e+07	1.05	y	42:16	-	0.864	
202	Unk	PCB-175	100.00	3.96e+07	1.05	y	42:36	-	0.913	
203	Unk	PCB-187	200.00	8.54e+07	1.08	y	42:46	-	0.986	Co-elute PCB 182
204	Unk	PCB-182	200.00	8.54e+07	1.08	y	42:46	-	0.986	Co-elute PCB 187
205	Unk	PCB-183	100.00	4.21e+07	1.05	y	43:04	-	0.973	
206	Unk	PCB-185	100.00	3.74e+07	1.05	y	43:42	-	0.863	
207	Unk	PCB-174	100.00	3.76e+07	1.05	y	44:02	-	0.867	
208	Unk	PCB-181	100.00	3.84e+07	1.06	y	44:08	-	0.886	
209	Unk	PCB-177	100.00	3.41e+07	1.05	y	44:18	-	0.788	
210	Unk	PCB-171	100.00	3.59e+07	1.04	y	44:34	-	0.828	
211	Unk	PCB-173	100.00	3.23e+07	1.05	y	44:59	-	0.745	
212	Unk	PCB-172	100.00	3.31e+07	1.04	y	45:22	-	0.764	
213	Unk	PCB-192	100.00	4.56e+07	1.06	y	45:32	-	1.05	
214	Unk	PCB-180	100.00	4.37e+07	1.06	y	45:44	-	1.01	
215	Unk	PCB-193	100.00	4.79e+07	1.05	y	45:53	-	1.11	
216	Unk	PCB-191	100.00	4.44e+07	1.05	y	46:07	-	1.02	
217	Unk	PCB-170	100.00	2.93e+07	1.06	y	47:01	-	0.676	
218	Unk	PCB-190	100.00	4.22e+07	1.05	y	47:11	-	0.974	
219	Unk	PCB-189	100.00	3.73e+07	1.06	y	48:23	-	1.09	
220	IS	13C-PCB-189	100.00	3.43e+07	1.10	y	48:22	-	0.816	
221	Unk	PCB-202	150.00	5.63e+07	0.89	y	44:44	-	1.00	
222	Unk	PCB-201	150.00	5.54e+07	0.90	y	45:11	-	0.987	
223	Unk	PCB-204	150.00	5.78e+07	0.90	y	45:21	-	1.03	
224	Unk	PCB-197	150.00	5.95e+07	0.89	y	45:35	-	1.06	
225	Unk	PCB-200	150.00	5.54e+07	0.91	y	46:21	-	0.986	
226	Unk	PCB-198	150.00	3.92e+07	0.89	y	47:32	-	0.698	
227	Unk	PCB-199	150.00	3.43e+07	0.91	y	47:37	-	0.612	
228	Unk	PCB-203	300.00	7.81e+07	0.92	y	47:52	-	0.695	Co-elute PCB 196
229	Unk	PCB-196	300.00	7.81e+07	0.92	y	47:52	-	0.695	Co-elute PCB 203
230	IS	13C-PCB-202	100.00	3.74e+07	0.93	y	44:43	-	0.891	
231	C/Up	13C-PCB-178	100.00	3.40e+07	1.08	y	42:15	-	0.809	
232	RS	13C-PCB-138	100.00	4.20e+07	1.29	y	41:28	4.20e+05	-	
233	Unk	PCB-195	150.00	3.89e+07	0.87	y	48:59	-	0.747	
234	Unk	PCB-194	150.00	4.22e+07	0.88	y	49:46	-	0.810	
235	Unk	PCB-205	150.00	5.36e+07	0.87	y	50:02	-	1.03	
236	IS	13C-PCB-205	100.00	3.47e+07	0.92	y	50:01	-	1.25	
237	Unk	PCB-208	150.00	5.29e+07	1.39	y	49:05	-	0.924	
238	IS	13C-PCB-208	100.00	3.81e+07	0.78	y	49:04	-	1.37	
239	Unk	PCB-207	150.00	4.81e+07	1.41	y	49:23	-	1.01	
240	Unk	PCB-206	150.00	3.79e+07	1.40	y	51:12	-	0.992	
241	IS	13C-PCB-206	100.00	2.55e+07	0.80	y	51:12	-	0.917	
242	Unk	PCB-209	150.00	6.37e+07	1.19	y	52:23	-	1.07	
243	IS	13C-PCB-209	100.00	3.98e+07	1.22	y	52:23	-	1.43	
244	RS	13C-PCB-194	100.00	2.78e+07	0.93	y	49:46	2.78e+05	-	

Analyst: _____ Date: 8/19/16

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/18/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 18AUG16Z Sam:1 Analysis Date: 18-AUG-16 16:50:51

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.21	2.66-3.60	y	49.1	37.5 - 62.5
PCB-3	M/M+2	3.21	2.66-3.60	y	46.8	37.5 - 62.5
PCB-4	M/M+2	1.58	1.33-1.79	y	46.6	37.5 - 62.5
PCB-15	M/M+2	1.55	1.33-1.79	y	42.3	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	50.2	37.5 - 62.5
PCB-37	M/M+2	1.03	0.88-1.20	y	44.5	37.5 - 62.5
PCB-54	M/M+2	0.77	0.65-0.89	y	48.1	37.5 - 62.5
PCB-77	M/M+2	0.78	0.65-0.89	y	49.7	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	48.3	37.5 - 62.5
PCB-104	M+2/M+4	1.59	1.32-1.78	y	45.9	37.5 - 62.5
PCB-105	M+2/M+4	1.54	1.32-1.78	y	47.3	37.5 - 62.5
PCB-114	M+2/M+4	1.52	1.32-1.78	y	49.4	37.5 - 62.5
PCB-118	M+2/M+4	1.50	1.32-1.78	y	50.5	37.5 - 62.5
PCB-123	M+2/M+4	1.55	1.32-1.78	y	44.1	37.5 - 62.5
PCB-126	M+2/M+4	1.65	1.32-1.78	y	46.9	37.5 - 62.5
PCB-155	M+2/M+4	1.27	1.05-1.43	y	49.0	37.5 - 62.5
PCB-156	M+2/M+4	1.26	1.05-1.43	y	47.4	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	50.4	37.5 - 62.5
PCB-167	M+2/M+4	1.25	1.05-1.43	y	50.9	37.5 - 62.5
PCB-169	M+2/M+4	1.26	1.05-1.43	y	52.8	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	45.9	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	49.2	37.5 - 62.5
PCB-202	M+2/M+4	0.89	0.76-1.02	y	51.6	37.5 - 62.5
PCB-205	M+2/M+4	0.88	0.76-1.02	y	48.0	37.5 - 62.5
PCB-206	M+4/M+6	1.41	1.13-1.53	y	46.3	37.5 - 62.5
PCB-208	M+4/M+6	1.40	1.13-1.53	y	46.1	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	51.9	37.5 - 62.5

Analyst: [signature] Date: 8/19/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/18/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 18AUG16Z Sam:1 Analysis Date: 18-AUG-16 16:50:51

	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	3.06	2.66-3.60	y	105	50.0 - 145
13C-PCB-3	M/M+2	3.15	2.66-3.60	y	104	50.0 - 145
13C-PCB-4	M/M+2	1.61	1.33-1.79	y	114	50.0 - 145
13C-PCB-15	M/M+2	1.60	1.33-1.79	y	99.8	50.0 - 145
13C-PCB-19	M/M+2	1.08	0.88-1.20	y	107	50.0 - 145
13C-PCB-37	M/M+2	1.09	0.88-1.20	y	98.1	50.0 - 145
13C-PCB-54	M/M+2	0.80	0.65-0.89	y	105	50.0 - 145
13C-PCB-77	M/M+2	0.80	0.65-0.89	y	101	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	99.2	50.0 - 145
13C-PCB-104	M+2/M+4	1.62	1.32-1.78	y	116	50.0 - 145
13C-PCB-105	M+2/M+4	1.63	1.32-1.78	y	102	50.0 - 145
13C-PCB-114	M+2/M+4	1.61	1.32-1.78	y	100	50.0 - 145
13C-PCB-118	M+2/M+4	1.61	1.32-1.78	y	101	50.0 - 145
13C-PCB-123	M+2/M+4	1.62	1.32-1.78	y	95.1	50.0 - 145
13C-PCB-126	M+2/M+4	1.58	1.32-1.78	y	98.2	50.0 - 145
13C-PCB-155	M+2/M+4	1.27	1.05-1.43	y	111	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	101	50.0 - 145
13C-PCB-157	M+2/M+4	1.27	1.05-1.43	y	105	50.0 - 145
13C-PCB-167	M+2/M+4	1.26	1.05-1.43	y	101	50.0 - 145
13C-PCB-169	M+2/M+4	1.25	1.05-1.43	y	99.9	50.0 - 145
13C-PCB-188	M+2/M+4	1.08	0.89-1.21	y	113	50.0 - 145
13C-PCB-189	M+2/M+4	1.08	0.89-1.21	y	108	50.0 - 145
13C-PCB-202	M+2/M+4	0.92	0.76-1.02	y	112	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	106	50.0 - 145
13C-PCB-206	M+2/M+4	0.78	0.65-0.89	y	116	50.0 - 145
13C-PCB-208	M+2/M+4	0.78	0.65-0.89	y	111	50.0 - 145
13C-PCB-209	M+4/M+6	1.19	0.99-1.33	y	102	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.05	0.88-1.20	y	94.0	65.0 - 135
13C-PCB-111	M+2/M+4	1.59	1.32-1.78	y	109	75.0 - 125
13C-PCB-178	M+2/M+4	1.05	0.89-1.21	y	103	75.0 - 125

Analyst: [signature] Date: 8/19/16

FAL ID: ST081816Z2 Filename: 18AUG16Z Sam:14 Acquired: 19-AUG-16 05:50:06 ICal: DAILY209FAL4-8-18-16
Client ID: 1668 CS3 R150603A ConCal: ST081816Z1 EndCal: ST081816Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	1.91e+07	3.28 y	14:31	1.04	52.2		2.50	-	-	*	
13C-PCB-1	3.54e+07	2.98 y	14:30	1.11	95.8		2.50				95.8
PCB-3	1.56e+07	3.51 y	16:60	1.07	51.9		2.50	-	-	*	
13C-PCB-3	2.82e+07	3.07 y	16:58	1.03	82.4		2.50				82.4
PCB-4	1.23e+07	1.51 y	18:10	1.22	44.5		2.50	-	-	*	
13C-PCB-4	2.26e+07	1.58 y	18:10	0.58	118		2.50				118
PCB-15	1.47e+07	1.57 y	23:47	1.26	44.6		2.50	-	-	*	
13C-PCB-15	2.62e+07	1.50 y	23:46	0.88	89.0		2.50				89.0
PCB-19	1.12e+07	1.04 y	22:03	1.07	56.8		2.50	-	-	*	
13C-PCB-19	1.85e+07	1.09 y	22:03	0.59	94.1		2.50				94.1
13C-PCB-9	3.32e+07	1.62 y	19:52	-	34.2		2.50				
PCB-37	1.04e+07	0.99 y	30:25	1.27	46.6		2.50	-	-	*	
13C-PCB-37	1.77e+07	0.98 y	30:24	1.22	73.0		2.50				73.0
PCB-54	1.44e+07	0.78 y	25:36	1.08	50.4		2.50	-	-	*	
13C-PCB-54	2.64e+07	0.78 y	25:34	1.24	107		2.50				107
PCB-104	9.38e+06	1.57 y	30:01	1.14	50.0		2.50	-	-	*	
13C-PCB-104	1.65e+07	1.61 y	29:60	0.87	95.6		2.50				95.6
13C-PCB-28	2.30e+07	1.08 y	26:41	1.47	79.1		2.50				79.1
13C-PCB-52	1.98e+07	0.80 y	28:55	-	35.6		2.50				
PCB-81	9.11e+06	0.78 y	36:10	1.18	47.6		2.50	-	-	*	
13C-PCB-81	1.62e+07	0.80 y	36:09	1.07	90.2		2.50				90.2
PCB-77	8.68e+06	0.75 y	36:44	1.08	48.2		2.50	-	-	*	
13C-PCB-77	1.67e+07	0.81 y	36:43	1.09	91.4		2.50				91.4
PCB-155	9.73e+06	1.26 y	34:10	1.07	52.0		2.50	-	-	*	
13C-PCB-155	1.74e+07	1.29 y	34:09	1.06	97.9		2.50				97.9
13C-PCB-111	1.88e+07	1.57 y	36:15	1.13	99.5		2.50				99.5
13C-PCB-101	1.68e+07	1.59 y	34:36	-	33.8		2.50				
PCB-123	6.43e+06	1.51 y	38:19	1.24	42.9		2.50	-	-	*	
13C-PCB-123	1.21e+07	1.60 y	38:17	1.09	78.6		2.50				78.6
PCB-118	8.31e+06	1.47 y	38:30	1.08	51.3		2.50	-	-	*	
13C-PCB-118	1.50e+07	1.58 y	38:29	1.19	90.0		2.50				90.0
PCB-114	7.21e+06	1.50 y	39:06	1.08	50.1		2.50	-	-	*	
13C-PCB-114	1.33e+07	1.65 y	39:05	1.11	85.3		2.50				85.3
PCB-105	7.39e+06	1.45 y	39:56	1.13	45.2		2.50	-	-	*	
13C-PCB-105	1.45e+07	1.65 y	39:54	1.14	90.9		2.50				90.9
PCB-126	6.54e+06	1.50 y	42:04	1.14	45.3		2.50	-	-	*	
13C-PCB-126	1.27e+07	1.60 y	42:04	0.97	92.7		2.50				92.7
PCB-167	8.15e+06	1.28 y	43:23	0.96	50.2		2.50	-	-	*	
13C-PCB-167	1.68e+07	1.27 y	43:23	1.14	105		2.50				105
PCB-156	7.86e+06	1.25 y	44:37	1.04	47.7		2.50	-	-	*	
13C-PCB-156	1.59e+07	1.28 y	44:37	1.07	106		2.50				106
PCB-157	8.14e+06	1.25 y	44:52	0.96	50.1		2.50	-	-	*	
13C-PCB-157	1.69e+07	1.28 y	44:52	1.09	111		2.50				111
PCB-169	6.37e+06	1.28 y	46:46	0.92	50.8		2.50	-	-	*	
13C-PCB-169	1.36e+07	1.28 y	46:46	0.92	105		2.50				105
PCB-188	9.95e+06	1.05 y	39:39	1.12	47.7		2.50	-	-	*	
13C-PCB-188	1.85e+07	1.10 y	39:38	1.25	106		2.50				106
PCB-189	6.42e+06	1.07 y	48:24	1.09	51.5		2.50	-	-	*	
13C-PCB-189	1.14e+07	1.11 y	48:23	0.82	99.9		2.50				99.9
PCB-202	5.71e+06	0.87 y	44:45	1.00	57.3		2.50	-	-	*	
13C-PCB-202	9.95e+06	0.94 y	44:45	0.89	79.5		2.50				79.5
13C-PCB-178	1.13e+07	1.08 y	42:17	0.81	99.7		2.50				99.7
13C-PCB-138	1.40e+07	1.28 y	41:31	-	33.4		2.50				

FAL ID: ST081816Z2 Filename: 18AUG16Z Sam:14 Acquired: 19-AUG-16 05:50:06 ICal: DAILY209FAL4-8-18-16 2 of 2
Client ID: 1668 CS3 R150603A ConCal: ST081816Z1 EndCal: ST081816Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	4.93e+06	0.84	y	50:03	1.03	46.1	2.50	-	-	*	
13C-PCB-205	1.04e+07	0.89	y	50:03	1.25	111	2.50				111
PCB-208	5.00e+06	1.49	y	49:07	0.92	44.0	2.50	-	-	*	
13C-PCB-208	1.23e+07	0.77	y	49:06	1.37	120	2.50				120
PCB-206	4.32e+06	1.50	y	51:14	0.99	43.9	2.50	-	-	*	
13C-PCB-206	9.93e+06	0.77	y	51:13	0.92	145	2.50				145
PCB-209	8.04e+06	1.19	y	52:25	1.07	54.4	2.50	-	-	*	
13C-PCB-209	1.38e+07	1.18	y	52:24	1.43	129	2.50				129
13C-PCB-194	7.48e+06	0.93	y	49:47	-	26.9	2.50				

Analyst: _____ Date: 8/19/16

USEPA - ITD

FORM 4A
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/18/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 18AUG16Z Sam:14 Analysis Date: 19-AUG-16 05:50:06

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.28	2.66-3.60	y	52.2	37.5 - 62.5
PCB-3	M/M+2	3.51	2.66-3.60	y	51.9	37.5 - 62.5
PCB-4	M/M+2	1.51	1.33-1.79	y	44.5	37.5 - 62.5
PCB-15	M/M+2	1.57	1.33-1.79	y	44.6	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	56.8	37.5 - 62.5
PCB-37	M/M+2	0.99	0.88-1.20	y	46.6	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	50.4	37.5 - 62.5
PCB-77	M/M+2	0.75	0.65-0.89	y	48.2	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	47.6	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	50.0	37.5 - 62.5
PCB-105	M+2/M+4	1.45	1.32-1.78	y	45.2	37.5 - 62.5
PCB-114	M+2/M+4	1.50	1.32-1.78	y	50.1	37.5 - 62.5
PCB-118	M+2/M+4	1.47	1.32-1.78	y	51.3	37.5 - 62.5
PCB-123	M+2/M+4	1.51	1.32-1.78	y	42.9	37.5 - 62.5
PCB-126	M+2/M+4	1.50	1.32-1.78	y	45.3	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	52.0	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	47.7	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	50.1	37.5 - 62.5
PCB-167	M+2/M+4	1.28	1.05-1.43	y	50.2	37.5 - 62.5
PCB-169	M+2/M+4	1.28	1.05-1.43	y	50.8	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	47.7	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	51.5	37.5 - 62.5
PCB-202	M+2/M+4	0.87	0.76-1.02	y	57.3	37.5 - 62.5
PCB-205	M+2/M+4	0.84	0.76-1.02	y	46.1	37.5 - 62.5
PCB-206	M+4/M+6	1.50	1.13-1.53	y	43.9	37.5 - 62.5
PCB-208	M+4/M+6	1.49	1.13-1.53	y	44.0	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	54.4	37.5 - 62.5

Analyst: [signature] Date: 8/19/16

USEPA - ITD

FORM 4B
209 PCB CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/18/16

Instrument ID: FAL4 GC Column ID: DB1

VER Data Filename: 18AUG16Z Sam:14 Analysis Date: 19-AUG-16 05:50:06

	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	2.98	2.66-3.60	y	95.8	50.0 - 145
13C-PCB-3	M/M+2	3.07	2.66-3.60	y	82.4	50.0 - 145
13C-PCB-4	M/M+2	1.58	1.33-1.79	y	118	50.0 - 145
13C-PCB-15	M/M+2	1.50	1.33-1.79	y	89.0	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	94.1	50.0 - 145
13C-PCB-37	M/M+2	0.98	0.88-1.20	y	73.0	50.0 - 145
13C-PCB-54	M/M+2	0.78	0.65-0.89	y	107	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	91.4	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	90.2	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	95.6	50.0 - 145
13C-PCB-105	M+2/M+4	1.65	1.32-1.78	y	90.9	50.0 - 145
13C-PCB-114	M+2/M+4	1.65	1.32-1.78	y	85.3	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	90.0	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	78.6	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	92.7	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	97.9	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	106	50.0 - 145
13C-PCB-157	M+2/M+4	1.28	1.05-1.43	y	111	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	105	50.0 - 145
13C-PCB-169	M+2/M+4	1.28	1.05-1.43	y	105	50.0 - 145
13C-PCB-188	M+2/M+4	1.10	0.89-1.21	y	106	50.0 - 145
13C-PCB-189	M+2/M+4	1.11	0.89-1.21	y	99.9	50.0 - 145
13C-PCB-202	M+2/M+4	0.94	0.76-1.02	y	79.5	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	111	50.0 - 145
13C-PCB-206	M+2/M+4	0.77	0.65-0.89	y	145	50.0 - 145
13C-PCB-208	M+2/M+4	0.77	0.65-0.89	y	120	50.0 - 145
13C-PCB-209	M+4/M+6	1.18	0.99-1.33	y	129	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.08	0.88-1.20	y	79.1	65.0 - 135
13C-PCB-111	M+2/M+4	1.57	1.32-1.78	y	99.5	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	99.7	75.0 - 125

Analyst: [signature] Date: 8/19/16

FAL ID: ST081816Z1 Filename: 18AUG16Z Sam:1 Acquired: 18-AUG-16 16:50:51 ICal: DAILY209FAL4-8-18-16
Client ID: 1668 CS3 R150603A ConCal: ST081816Z1 EndCal: ST081816Z2
Results: GC Column: DB1 Amount: 1.000

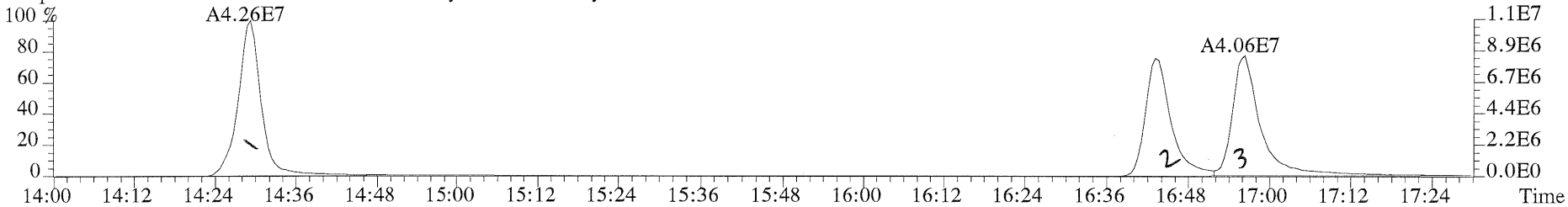
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	4.37e+07	3.21 y	14:29	1.04	49.1		2.50	-	-	*	
13C-PCB-1	8.59e+07	3.06 y	14:28	1.11	105		2.50				105
PCB-3	3.96e+07	3.21 y	16:56	1.07	46.8		2.50	-	-	*	
13C-PCB-3	7.91e+07	3.15 y	16:55	1.03	104		2.50				104
PCB-4	2.74e+07	1.58 y	18:09	1.22	46.6		2.50	-	-	*	
13C-PCB-4	4.83e+07	1.61 y	18:08	0.58	114		2.50				114
PCB-15	3.46e+07	1.55 y	23:43	1.26	42.3		2.50	-	-	*	
13C-PCB-15	6.50e+07	1.60 y	23:42	0.88	99.8		2.50				99.8
PCB-19	2.50e+07	1.04 y	22:02	1.07	50.2		2.50	-	-	*	
13C-PCB-19	4.66e+07	1.08 y	22:01	0.59	107		2.50				107
13C-PCB-9	7.36e+07	1.60 y	19:49	-	75.7		2.50				
PCB-37	2.95e+07	1.03 y	30:22	1.27	44.5		2.50	-	-	*	
13C-PCB-37	5.23e+07	1.09 y	30:21	1.22	98.1		2.50				98.1
PCB-54	2.98e+07	0.77 y	25:33	1.08	48.1		2.50	-	-	*	
13C-PCB-54	5.73e+07	0.80 y	25:32	1.24	105		2.50				105
PCB-104	2.30e+07	1.59 y	29:58	1.14	45.9		2.50	-	-	*	
13C-PCB-104	4.39e+07	1.62 y	29:57	0.87	116		2.50				116
13C-PCB-28	6.03e+07	1.05 y	26:39	1.47	94.0		2.50				94.0
13C-PCB-52	4.37e+07	0.80 y	28:53	-	78.4		2.50				
PCB-81	2.33e+07	0.78 y	36:07	1.18	48.3		2.50	-	-	*	
13C-PCB-81	4.08e+07	0.80 y	36:06	1.07	99.2		2.50				99.2
PCB-77	2.27e+07	0.78 y	36:41	1.08	49.7		2.50	-	-	*	
13C-PCB-77	4.22e+07	0.80 y	36:40	1.09	101		2.50				101
PCB-155	2.38e+07	1.27 y	34:08	1.07	49.0		2.50	-	-	*	
13C-PCB-155	4.53e+07	1.27 y	34:07	1.06	111		2.50				111
13C-PCB-111	4.74e+07	1.59 y	36:12	1.13	109		2.50				109
13C-PCB-101	3.85e+07	1.60 y	34:34	-	77.6		2.50				
PCB-123	1.91e+07	1.55 y	38:17	1.24	44.1		2.50	-	-	*	
13C-PCB-123	3.48e+07	1.62 y	38:15	1.09	95.1		2.50				95.1
PCB-118	2.18e+07	1.50 y	38:27	1.08	50.5		2.50	-	-	*	
13C-PCB-118	3.99e+07	1.61 y	38:25	1.19	101		2.50				101
PCB-114	1.99e+07	1.52 y	39:05	1.08	49.4		2.50	-	-	*	
13C-PCB-114	3.74e+07	1.61 y	39:03	1.11	100		2.50				100
PCB-105	2.06e+07	1.54 y	39:52	1.13	47.3		2.50	-	-	*	
13C-PCB-105	3.87e+07	1.63 y	39:52	1.14	102		2.50				102
PCB-126	1.71e+07	1.65 y	42:03	1.14	46.9		2.50	-	-	*	
13C-PCB-126	3.20e+07	1.58 y	42:01	0.97	98.2		2.50				98.2
PCB-167	1.89e+07	1.25 y	43:22	0.96	50.9		2.50	-	-	*	
13C-PCB-167	3.86e+07	1.26 y	43:20	1.14	101		2.50				101
PCB-156	1.79e+07	1.26 y	44:36	1.04	47.4		2.50	-	-	*	
13C-PCB-156	3.64e+07	1.28 y	44:34	1.07	101		2.50				101
PCB-157	1.84e+07	1.25 y	44:50	0.96	50.4		2.50	-	-	*	
13C-PCB-157	3.82e+07	1.27 y	44:49	1.09	105		2.50				105
PCB-169	1.51e+07	1.26 y	46:44	0.92	52.8		2.50	-	-	*	
13C-PCB-169	3.09e+07	1.25 y	46:44	0.92	99.9		2.50				99.9
PCB-188	2.44e+07	1.05 y	39:38	1.12	45.9		2.50	-	-	*	
13C-PCB-188	4.73e+07	1.08 y	39:36	1.25	113		2.50				113
PCB-189	1.58e+07	1.07 y	48:23	1.09	49.2		2.50	-	-	*	
13C-PCB-189	2.96e+07	1.08 y	48:23	0.82	108		2.50				108
PCB-202	1.73e+07	0.89 y	44:44	1.00	51.6		2.50	-	-	*	
13C-PCB-202	3.34e+07	0.92 y	44:42	0.89	112		2.50				112
13C-PCB-178	2.79e+07	1.05 y	42:16	0.81	103		2.50				103
13C-PCB-138	3.35e+07	1.28 y	41:28	-	79.7		2.50				

FAL ID: ST081816Z1 Filename: 18AUG16Z Sam:1 Acquired: 18-AUG-16 16:50:51 ICal: DAILY209FAL4-8-18-16 2 of 2
Client ID: 1668 CS3 R150603A ConCal: ST081816Z1 EndCal: ST081816Z2
Results: GC Column: DB1 Amount: 1.000

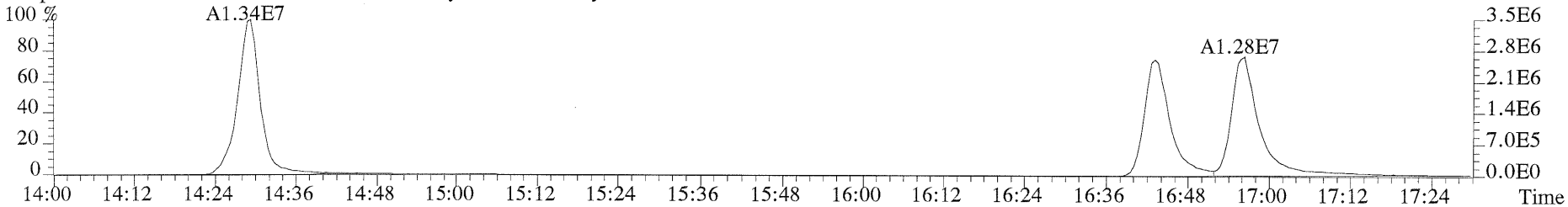
PCB-205	1.44e+07	0.88 y	50:01	1.03	48.0	2.50	-	-	*	
13C-PCB-205	2.92e+07	0.89 y	50:01	1.25	106	2.50				106
PCB-208	1.42e+07	1.40 y	49:06	0.92	46.1	2.50	-	-	*	
13C-PCB-208	3.34e+07	0.78 y	49:05	1.37	111	2.50				111
PCB-206	1.07e+07	1.41 y	51:13	0.99	46.3	2.50	-	-	*	
13C-PCB-206	2.33e+07	0.78 y	51:12	0.92	116	2.50				116
PCB-209	1.77e+07	1.19 y	52:24	1.07	51.9	2.50	-	-	*	
13C-PCB-209	3.19e+07	1.19 y	52:23	1.43	102	2.50				102
13C-PCB-194	2.20e+07	0.91 y	49:46	-	79.1	2.50				

Analyst: _____ Date: 8/19/16

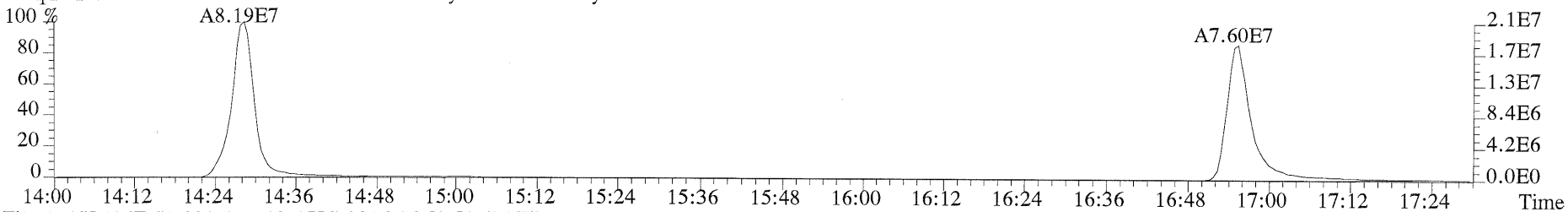
File:18AUG16Z #1-901 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
188.0393 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



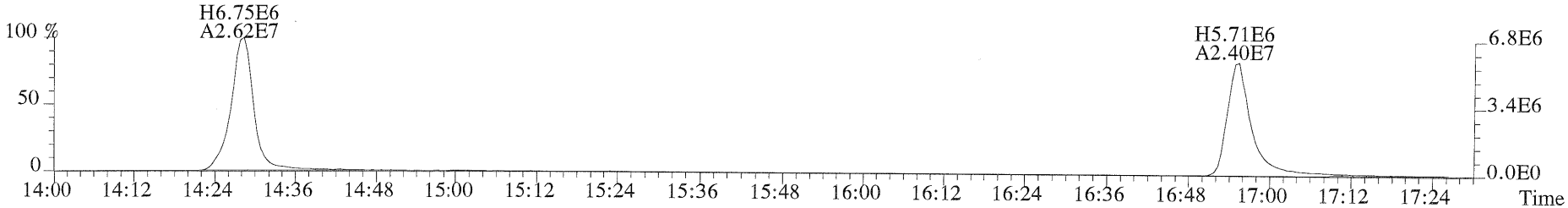
File:18AUG16Z #1-901 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



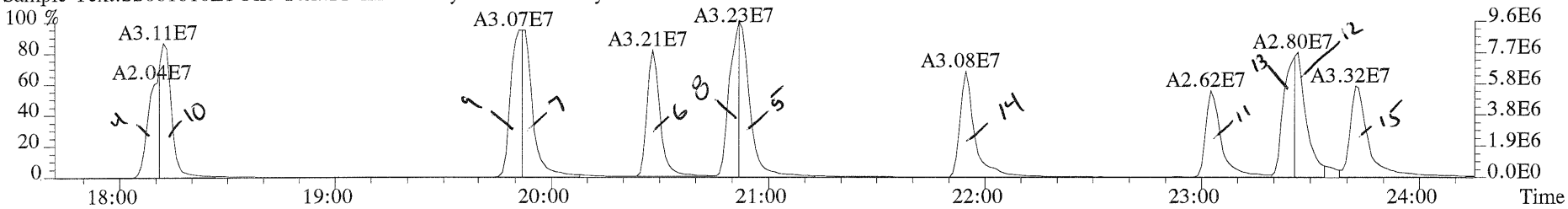
File:18AUG16Z #1-901 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



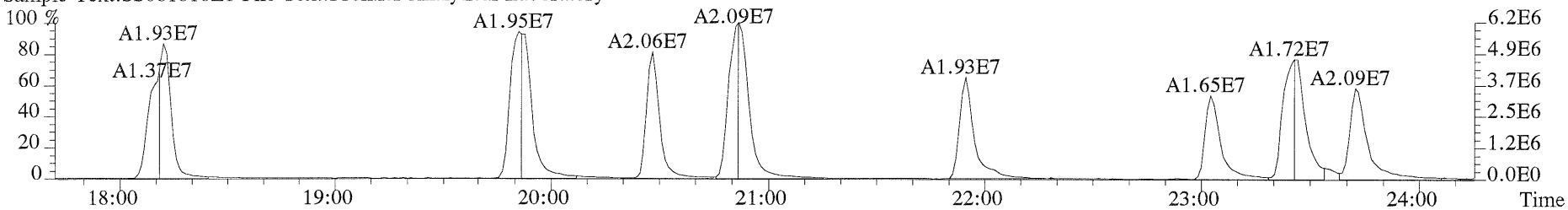
File:18AUG16Z #1-901 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



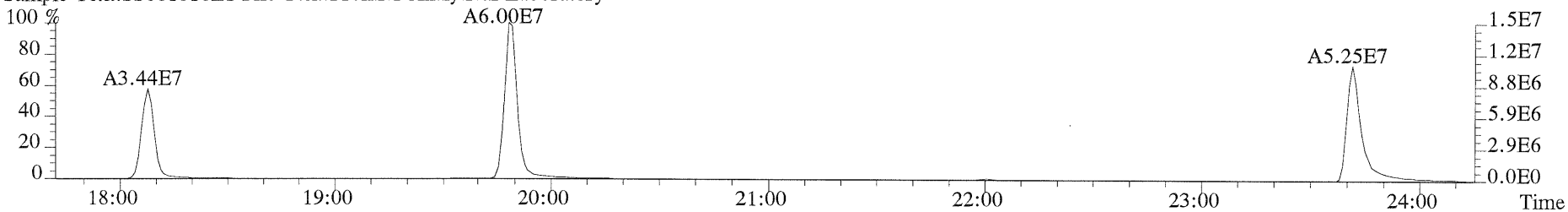
File:18AUG16Z #1-509 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



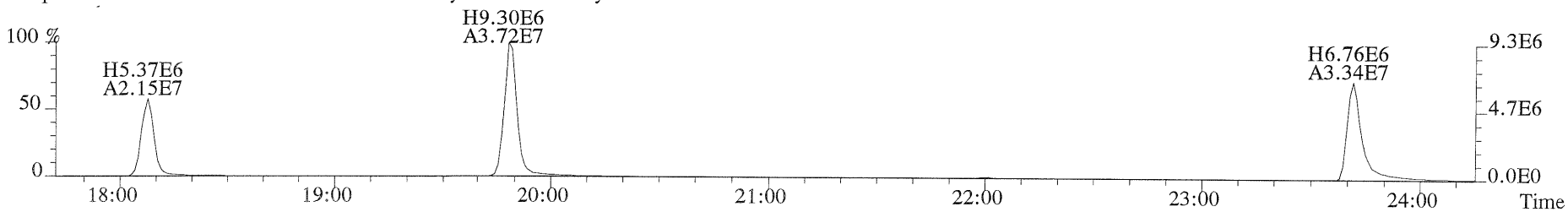
File:18AUG16Z #1-509 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



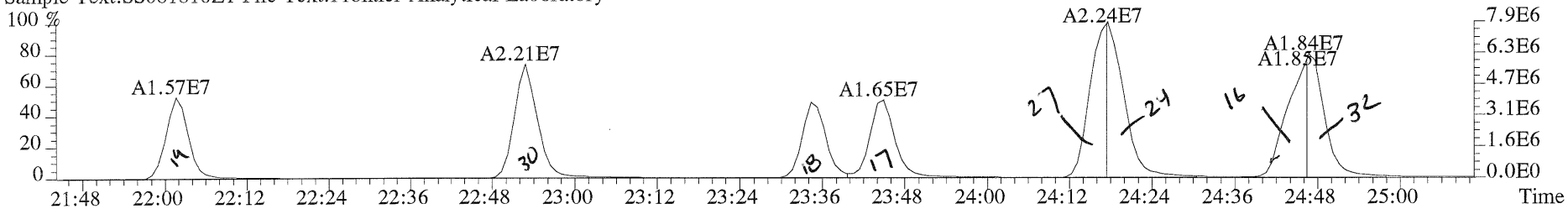
File:18AUG16Z #1-509 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



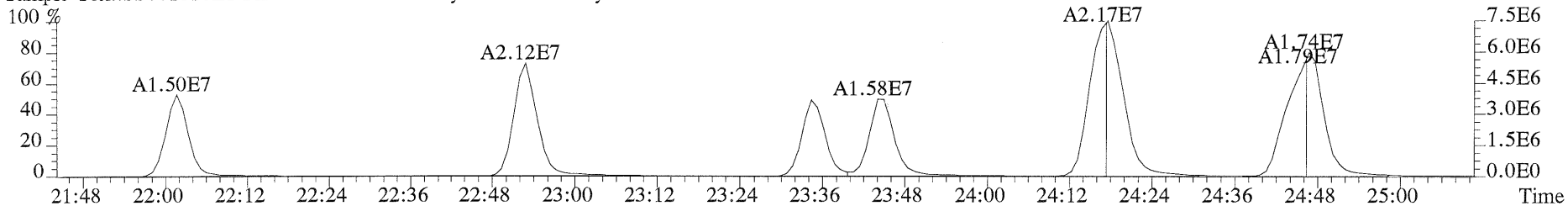
File:18AUG16Z #1-509 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



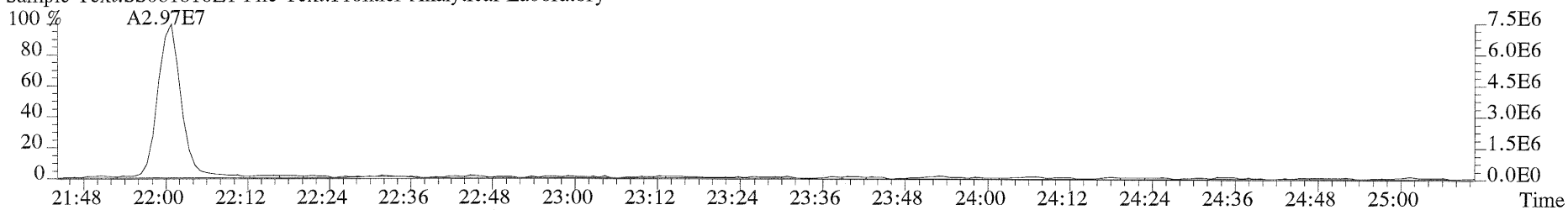
File:18AUG16Z #1-509 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



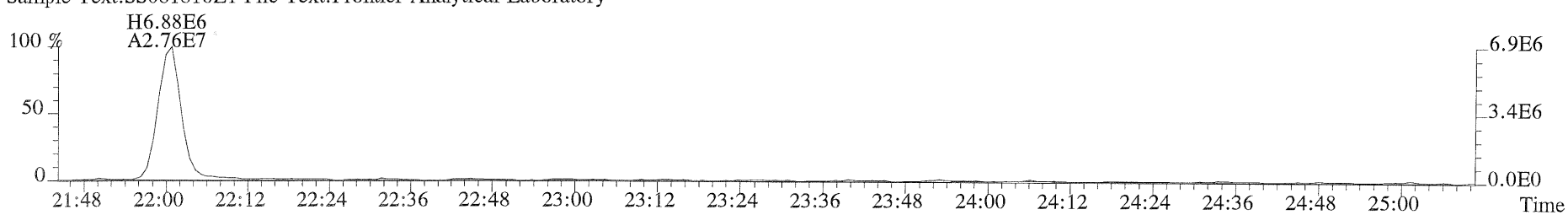
File:18AUG16Z #1-509 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



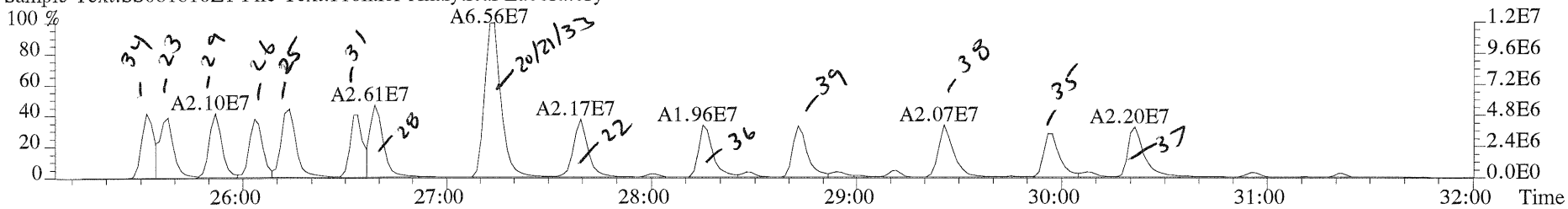
File:18AUG16Z #1-509 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



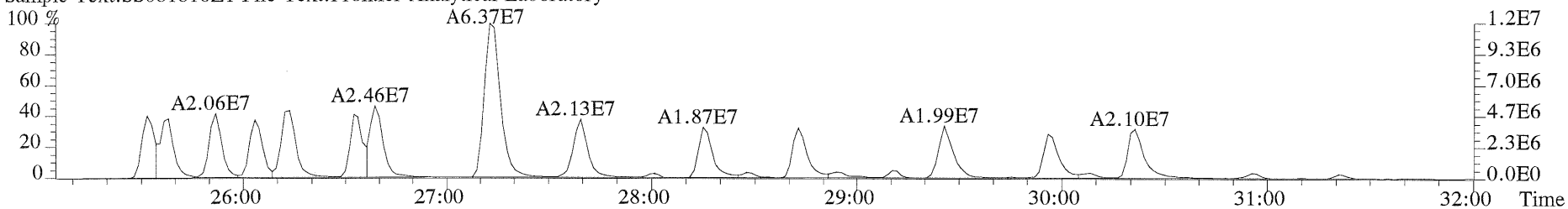
File:18AUG16Z #1-509 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:2 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



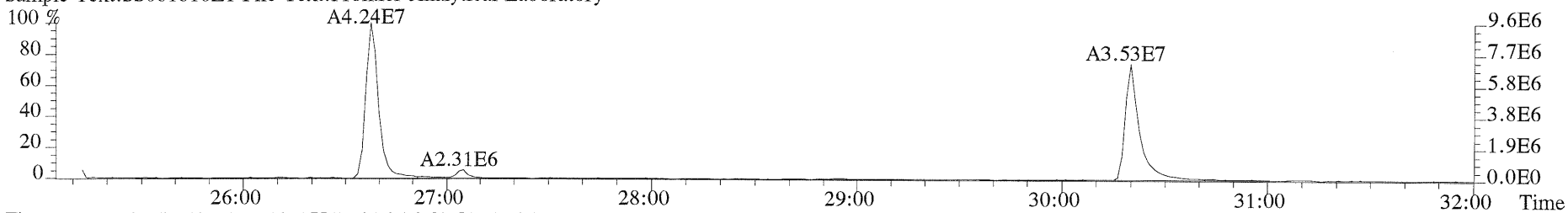
File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



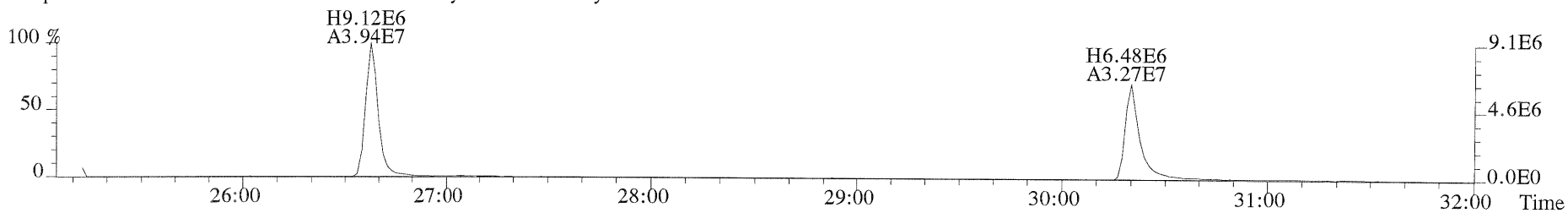
File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



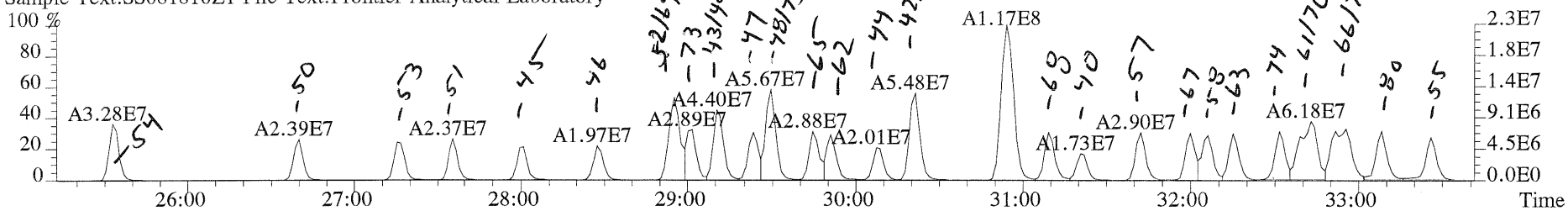
File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



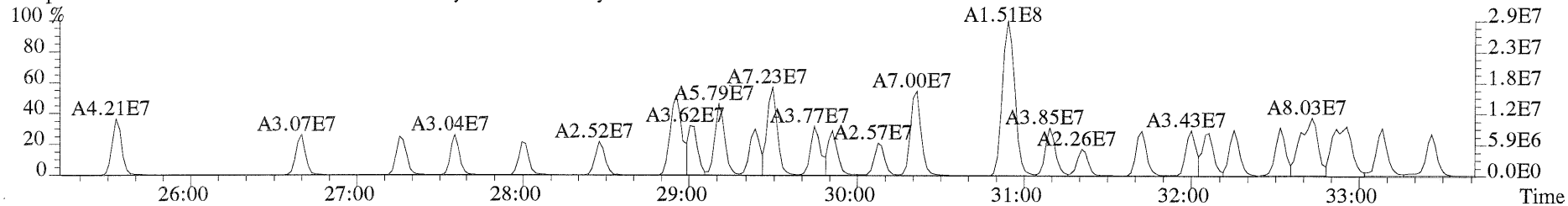
File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:2 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



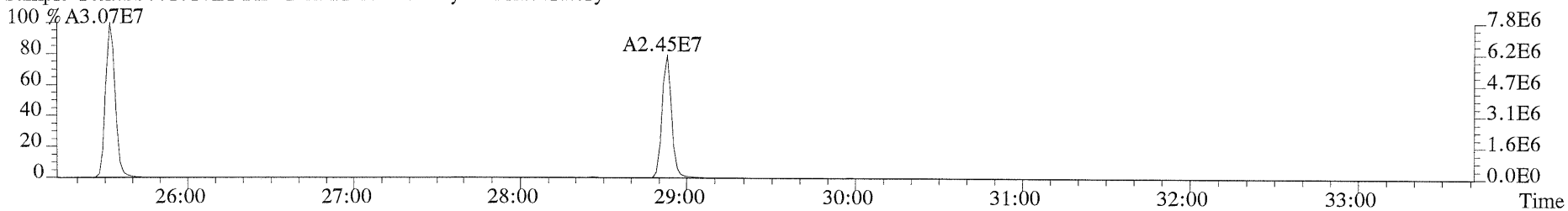
File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



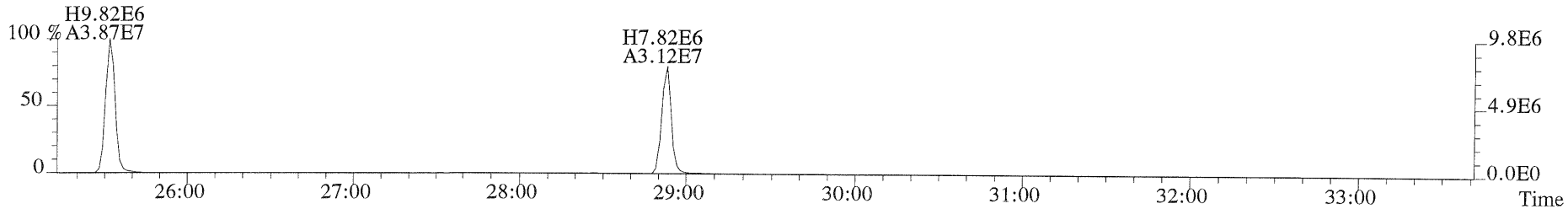
File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



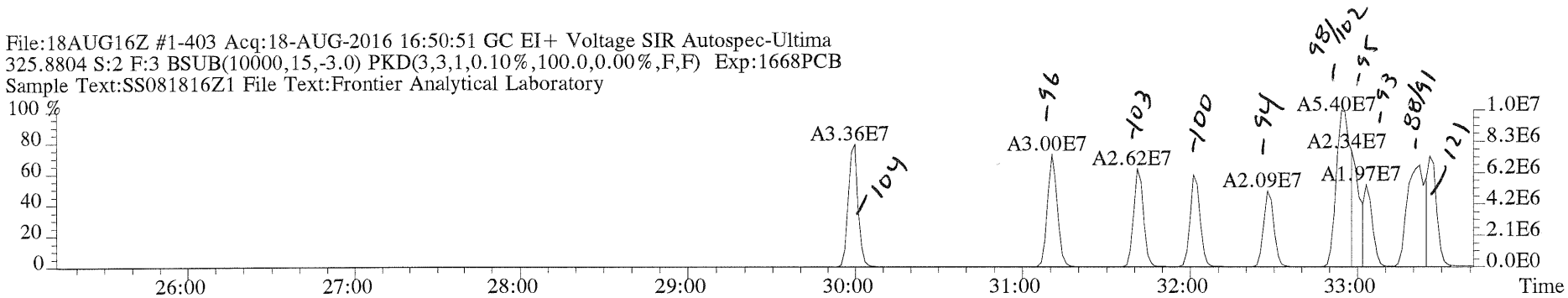
File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



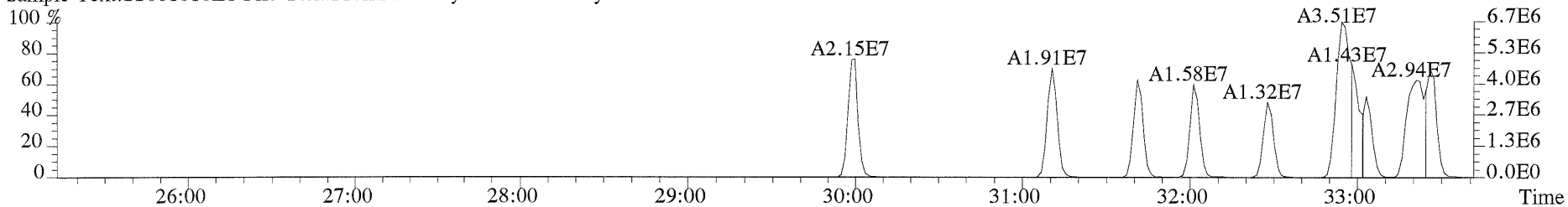
File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



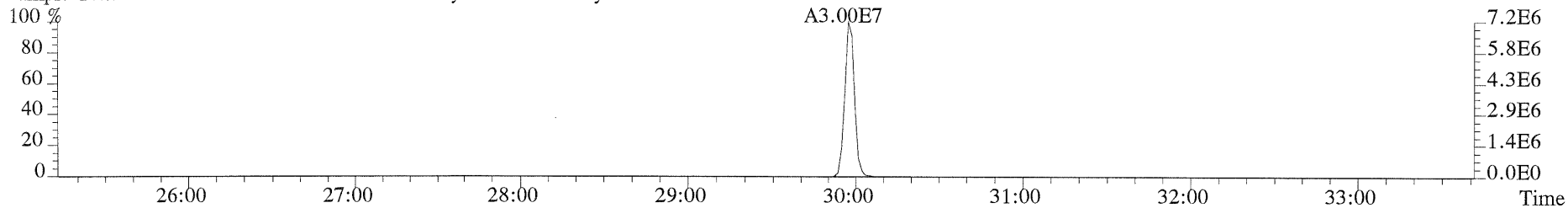
File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



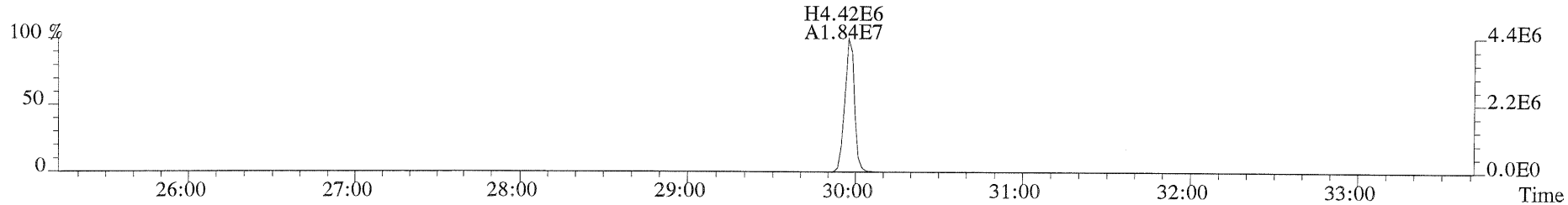
File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



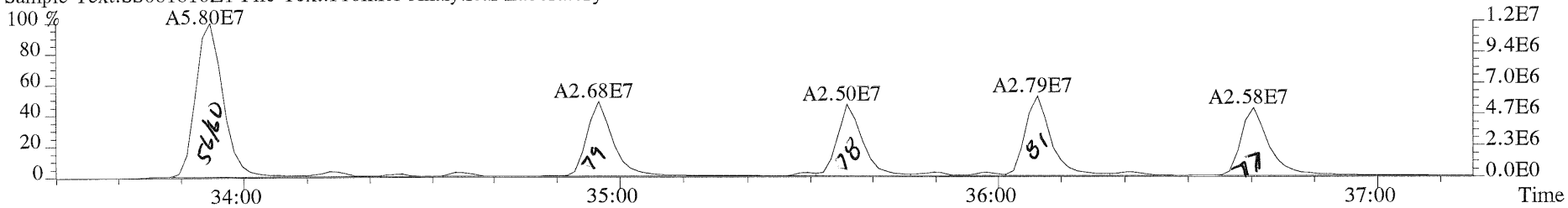
File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



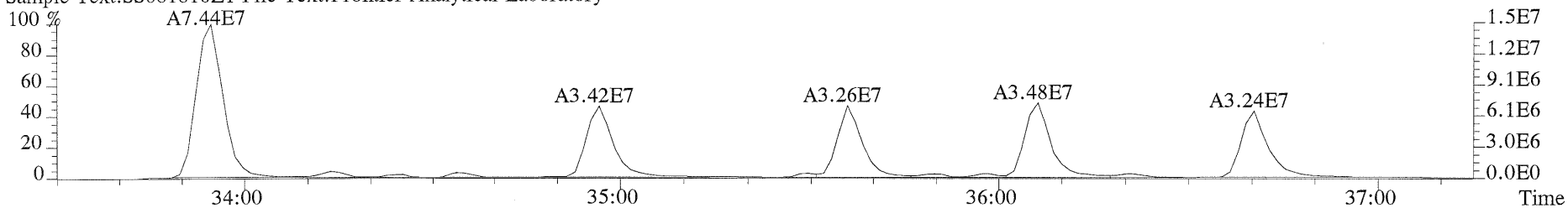
File:18AUG16Z #1-403 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:3 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



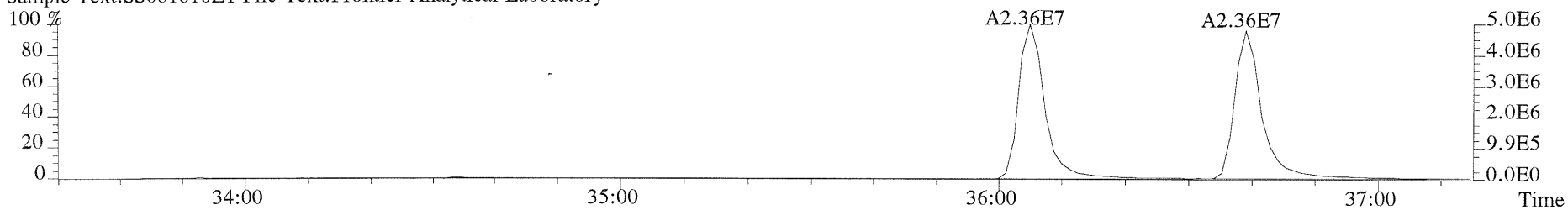
File:18AUG16Z #1-178 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



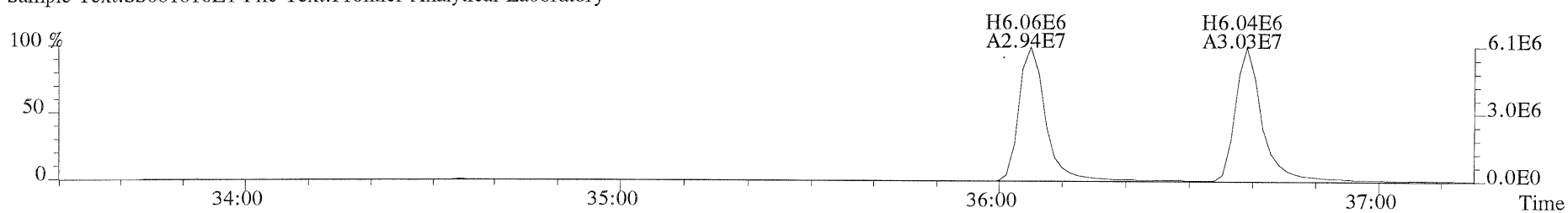
File:18AUG16Z #1-178 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



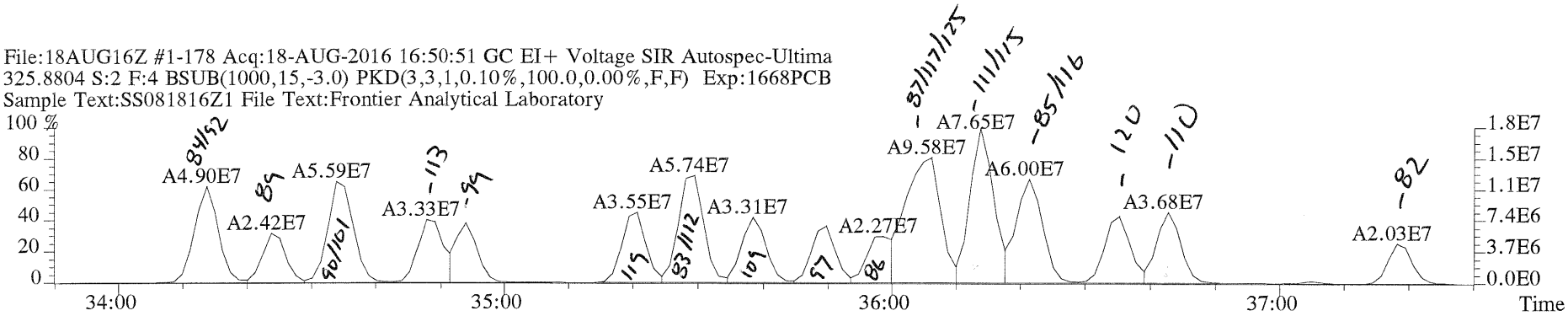
File:18AUG16Z #1-178 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



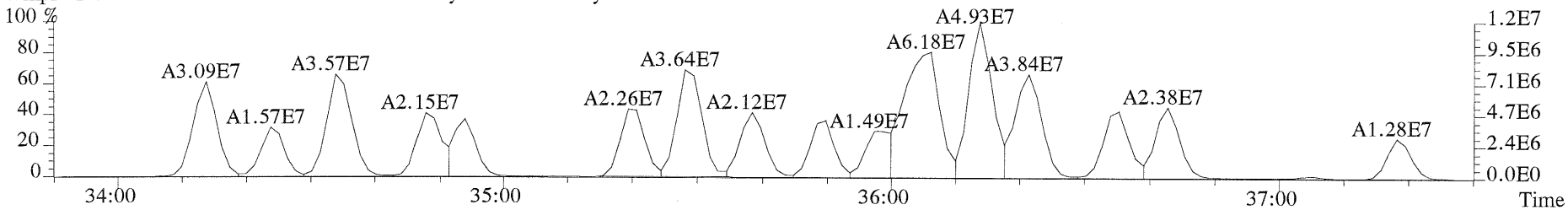
File:18AUG16Z #1-178 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



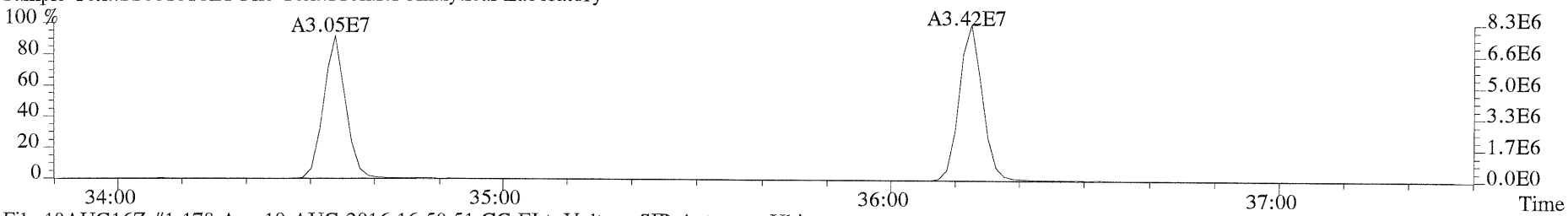
File:18AUG16Z #1-178 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



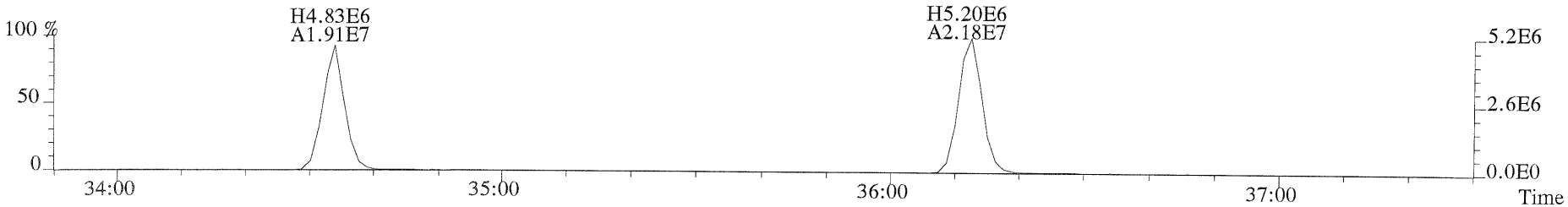
File:18AUG16Z #1-178 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



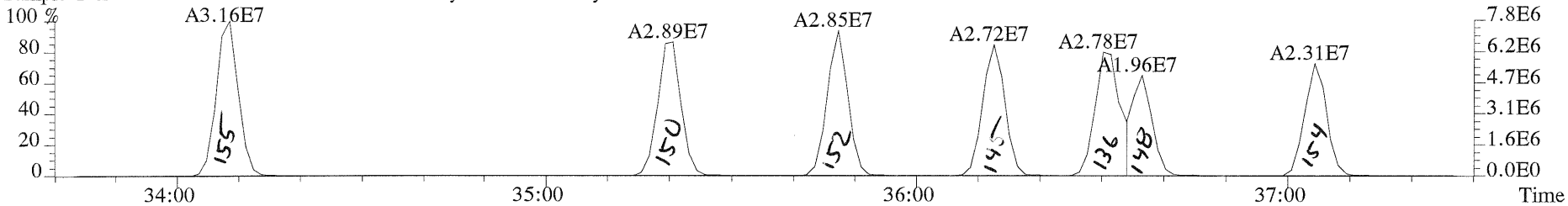
File:18AUG16Z #1-178 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



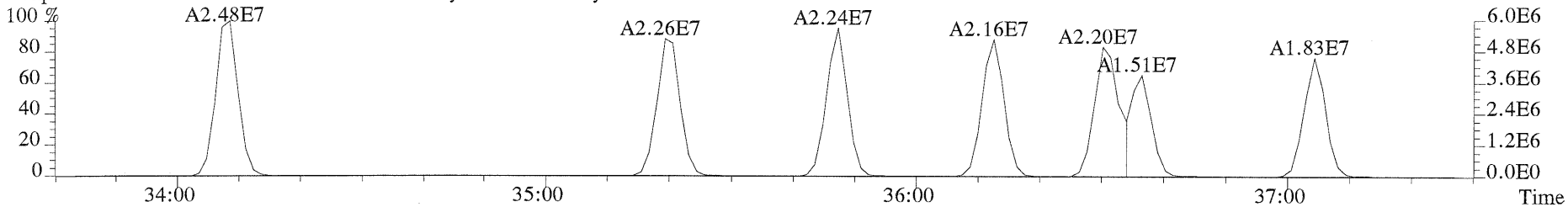
File:18AUG16Z #1-178 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



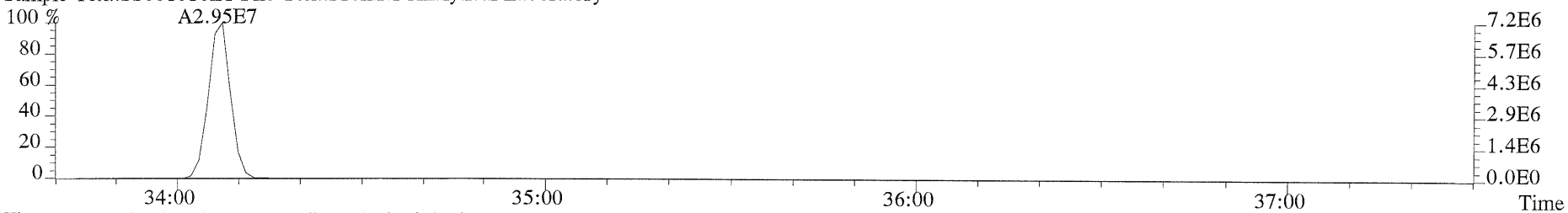
File:18AUG16Z #1-178 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



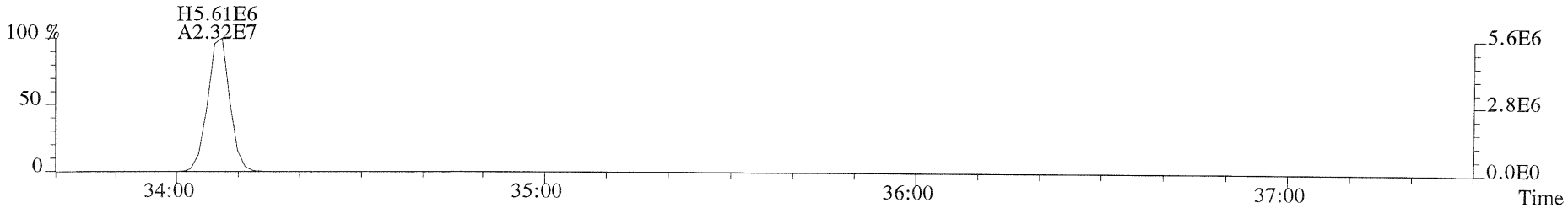
File:18AUG16Z #1-178 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



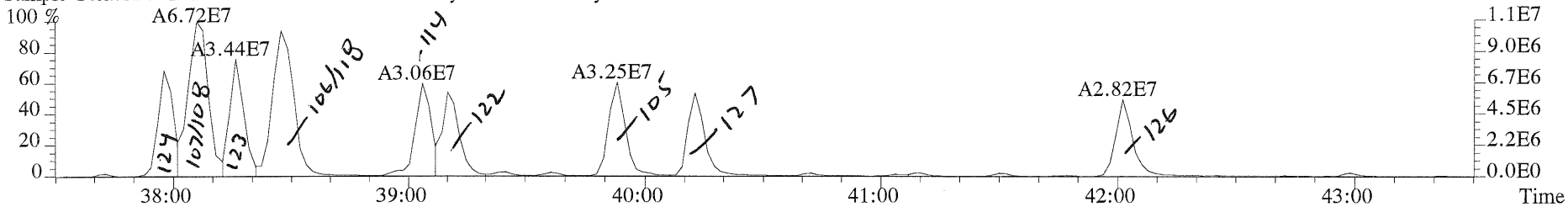
File:18AUG16Z #1-178 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



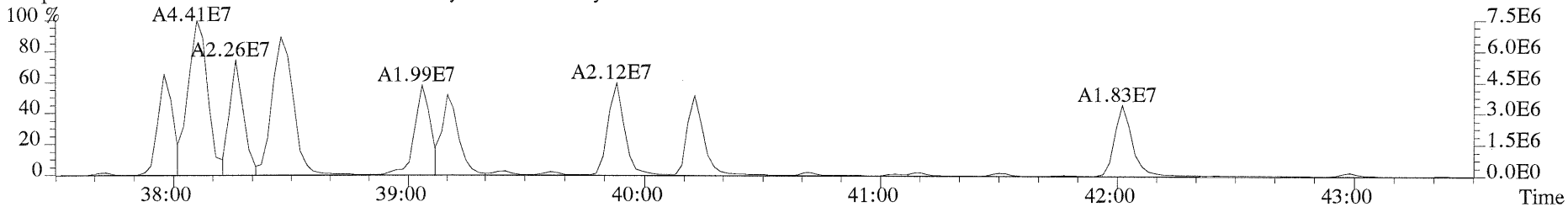
File:18AUG16Z #1-178 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



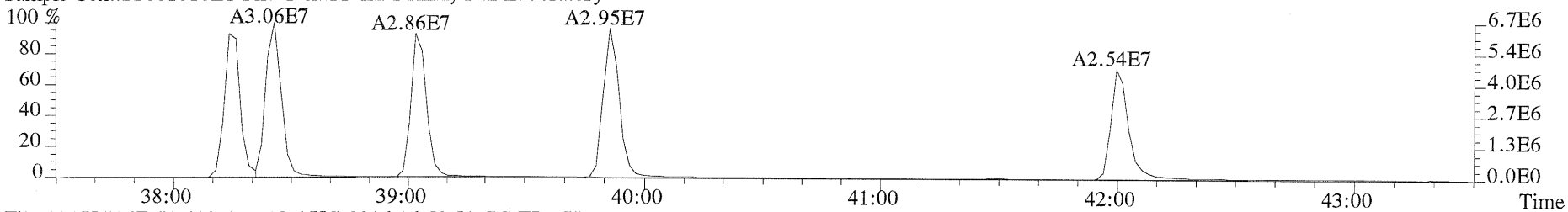
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



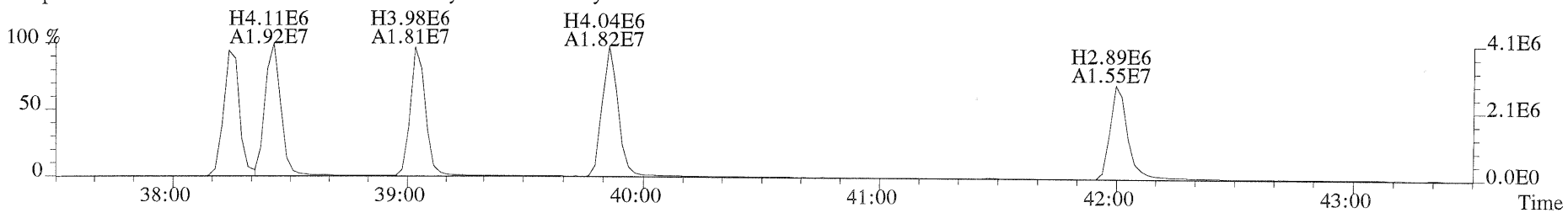
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



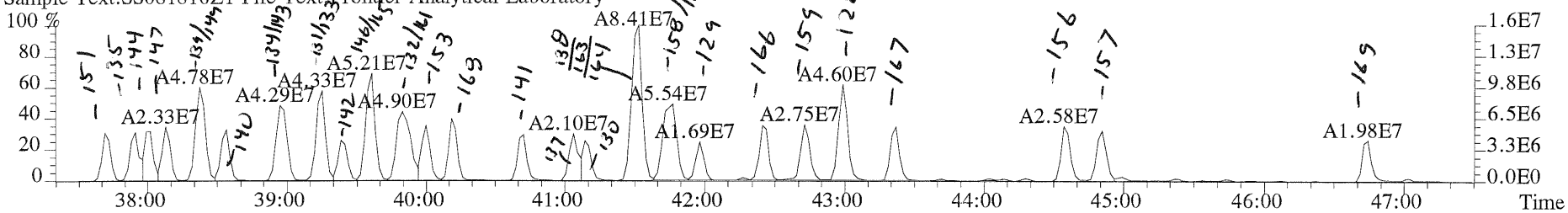
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



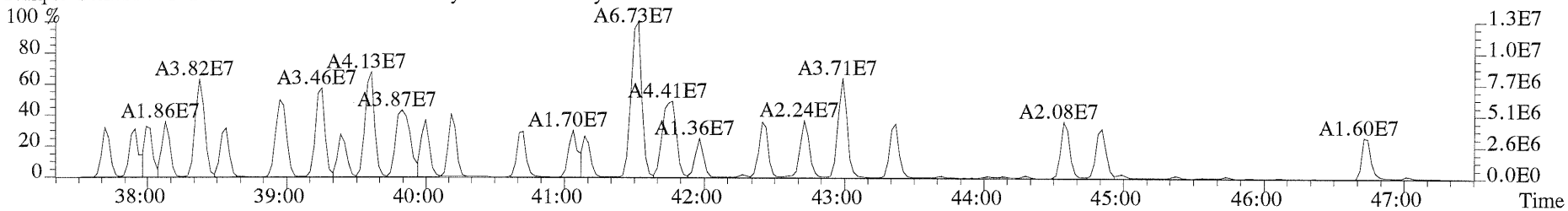
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



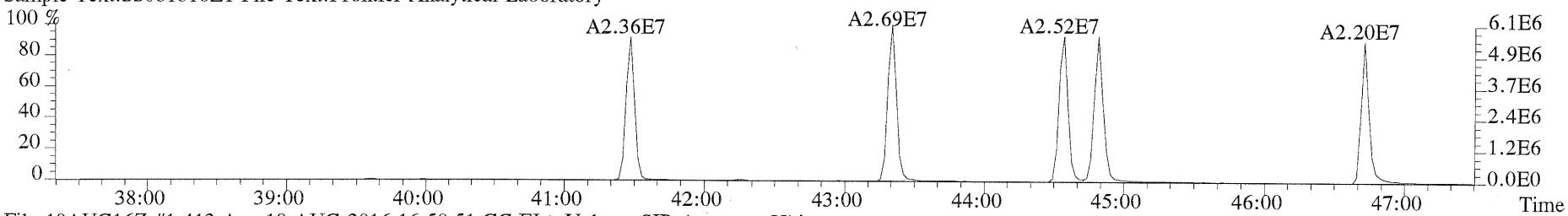
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



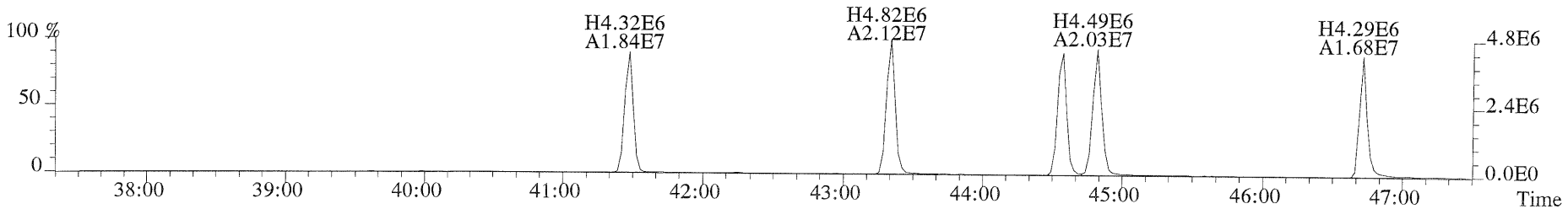
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



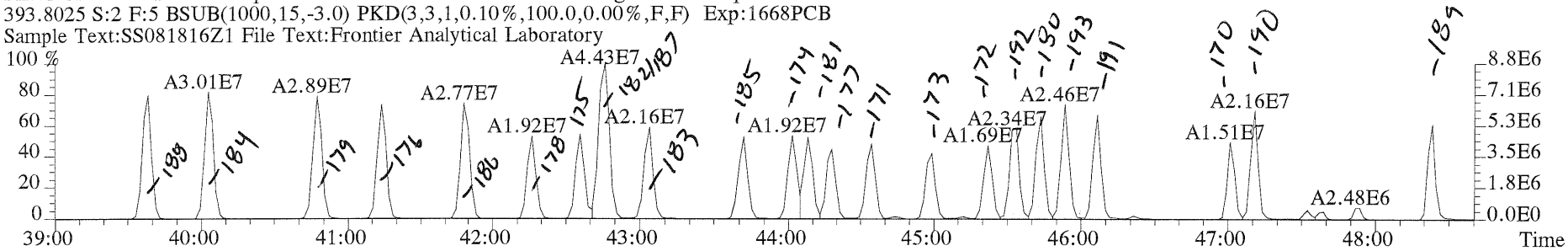
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



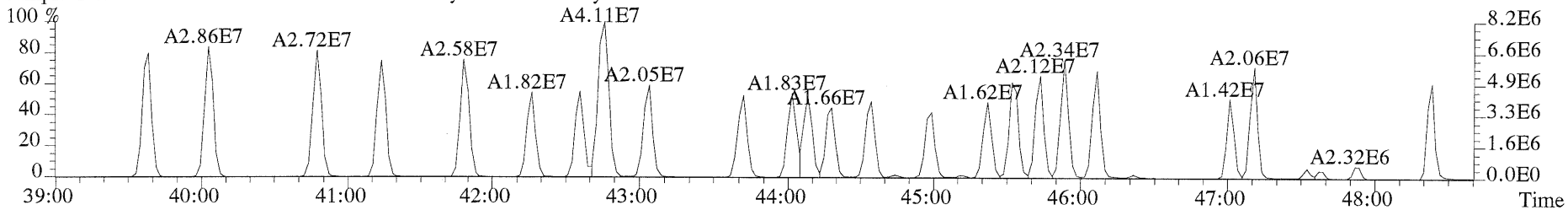
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



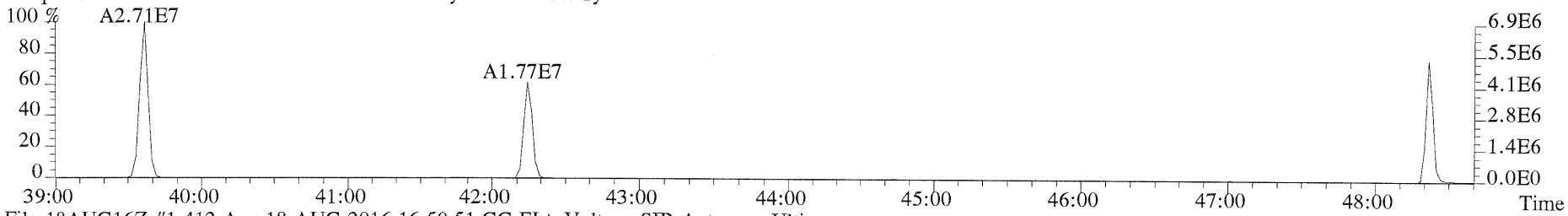
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



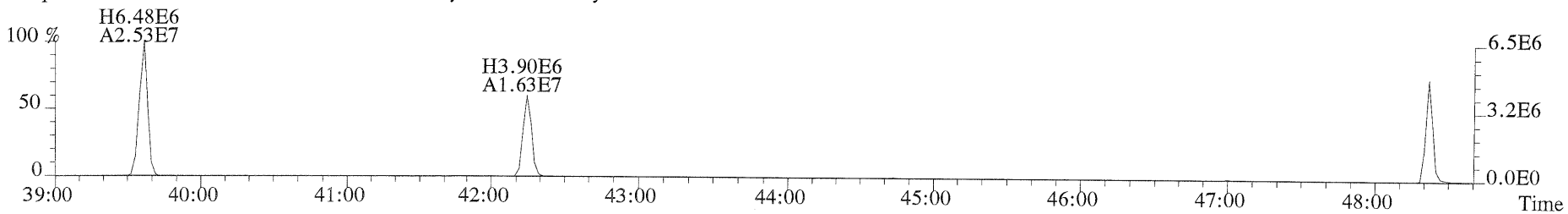
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



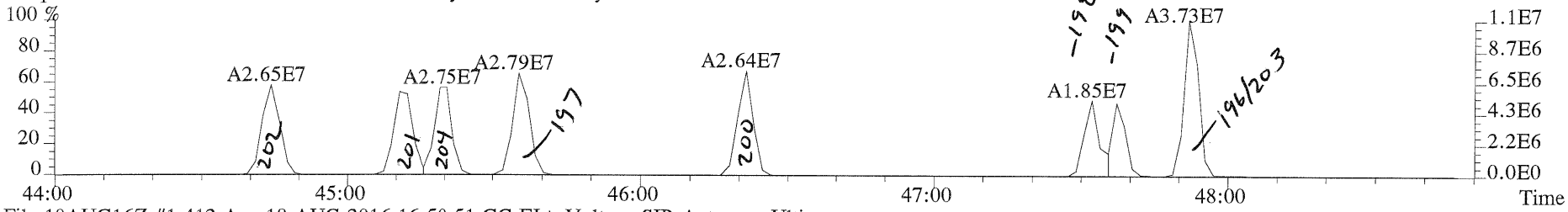
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



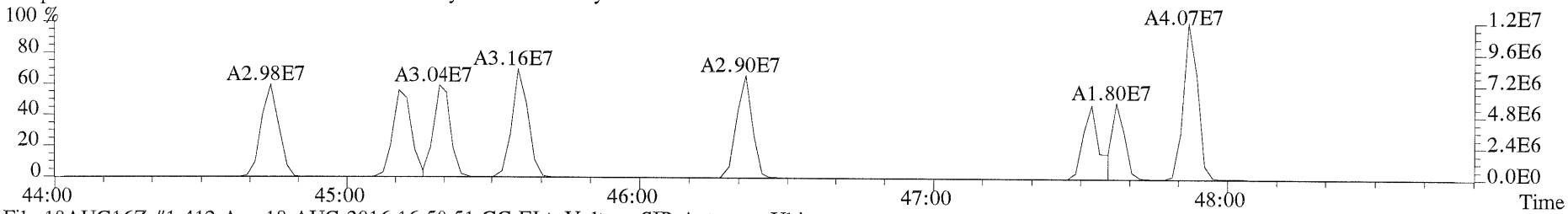
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



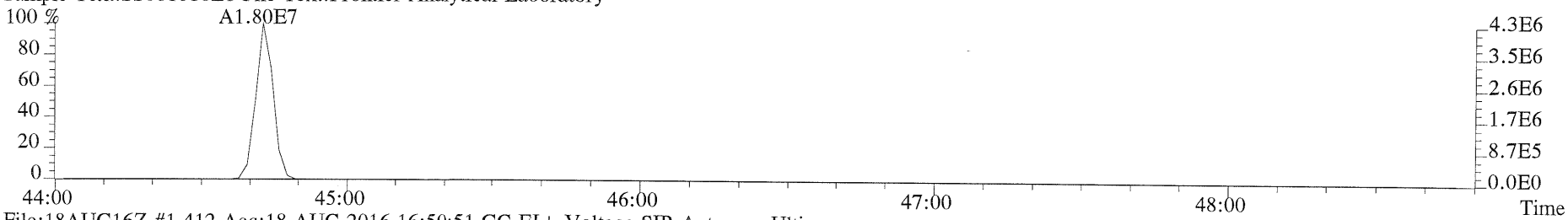
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



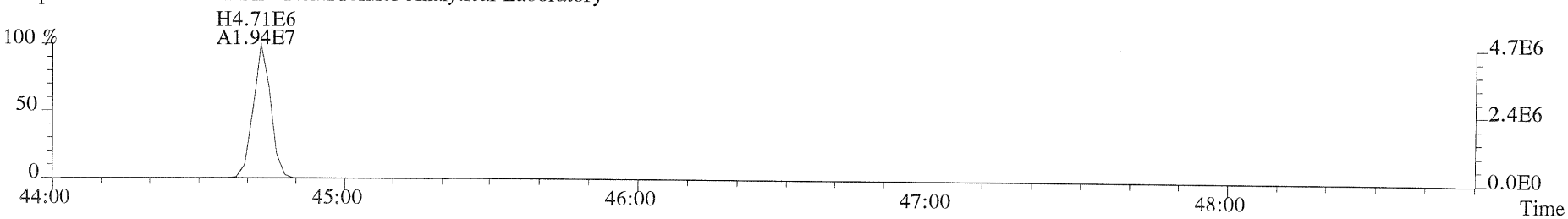
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



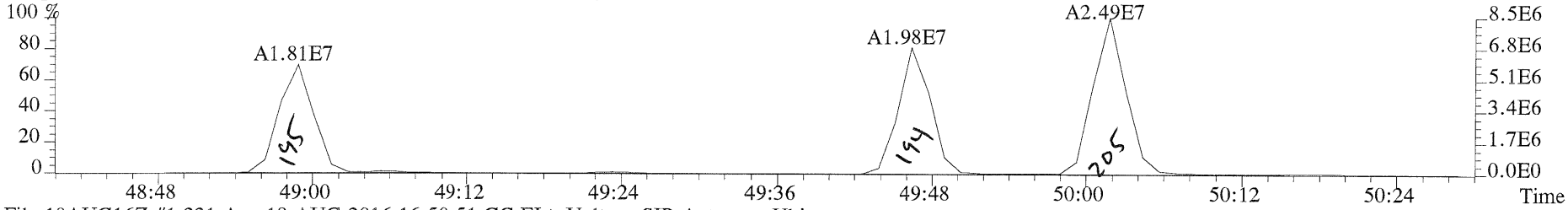
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



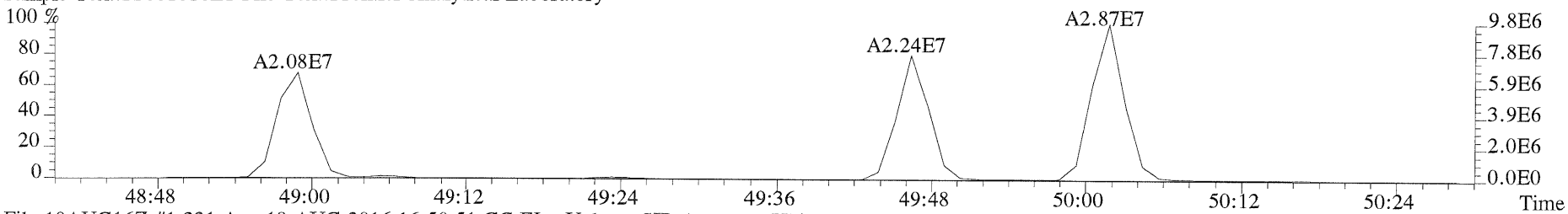
File:18AUG16Z #1-412 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



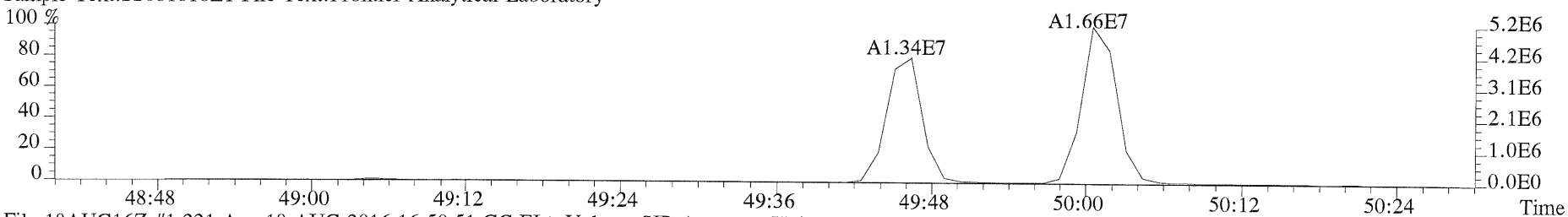
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



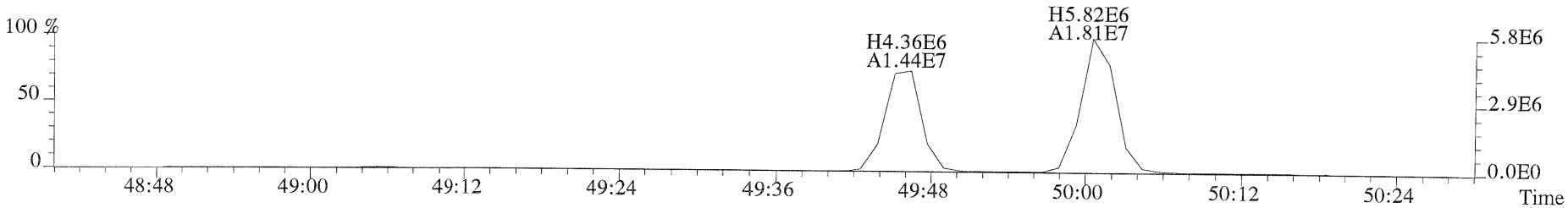
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



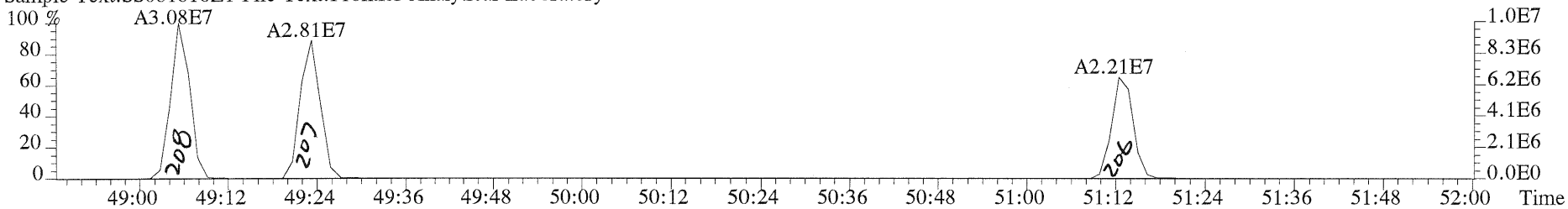
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



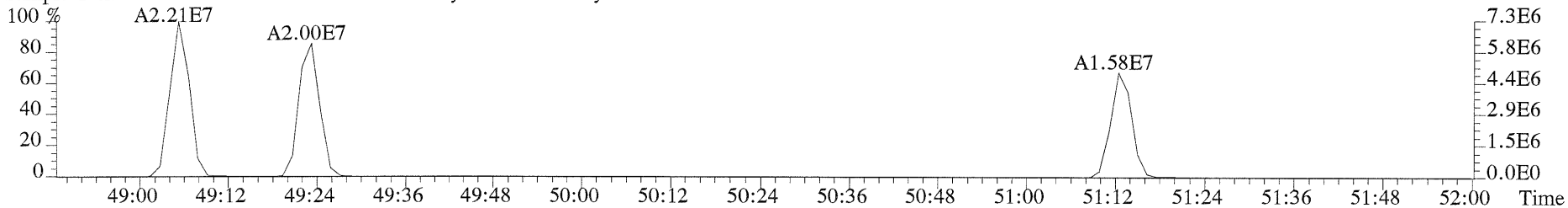
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



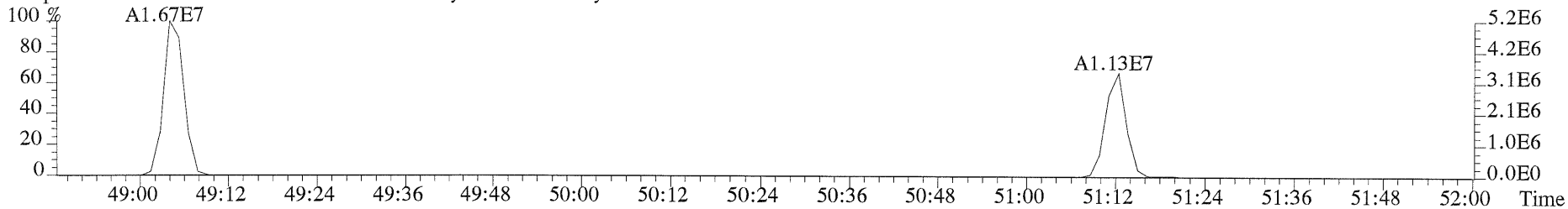
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:2 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



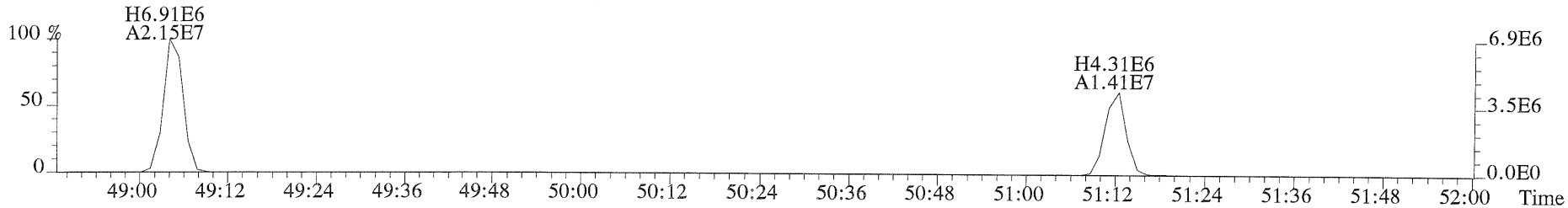
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:2 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



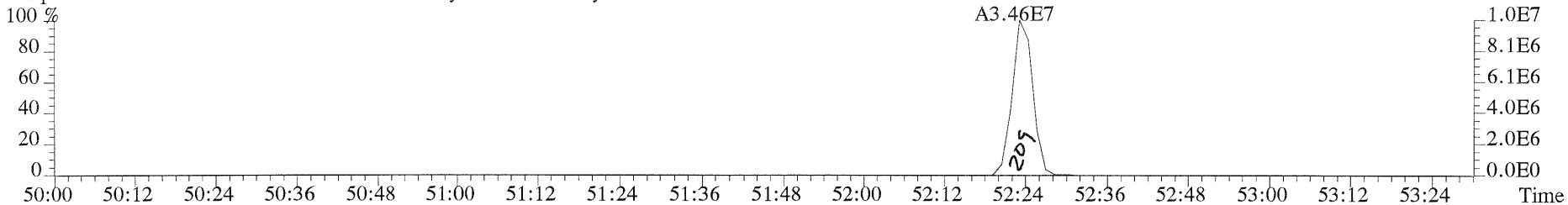
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:2 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



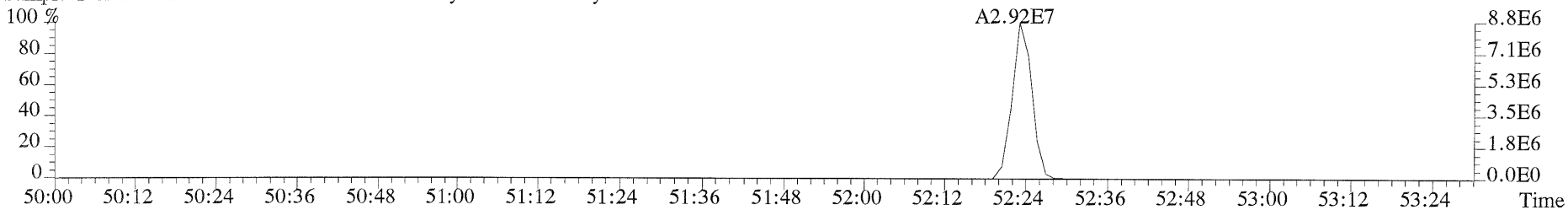
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:2 F:6 BSUB(10000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



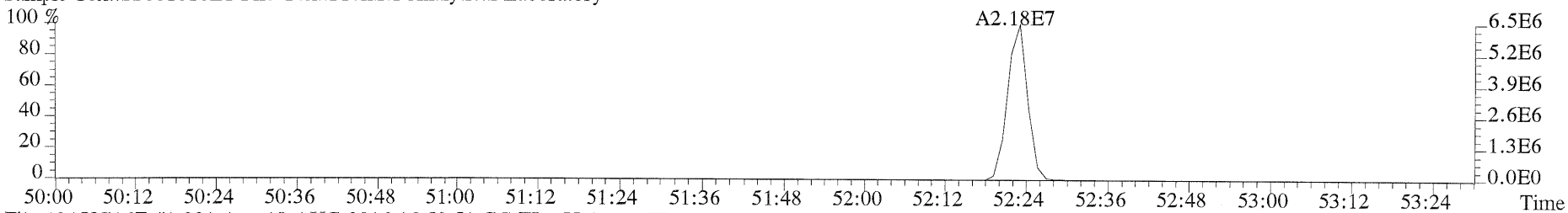
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



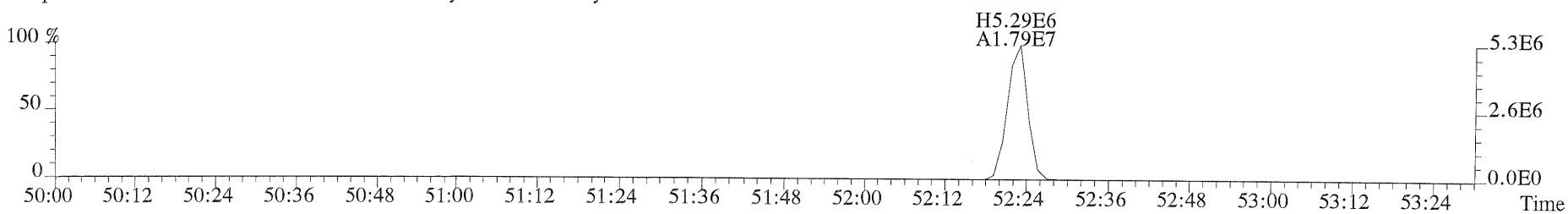
File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 File Text:Frontier Analytical Laboratory



File:18AUG16Z #1-221 Acq:18-AUG-2016 16:50:51 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:2 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:SS081816Z1 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: DB1

VER Data Filename: 18AUG16Z Sam:14 Analysis Date: 19-AUG-16 05:50:06

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
PCB-1	M/M+2	3.28	2.66-3.60	y	51.4	37.5 - 62.5
PCB-3	M/M+2	3.51	2.66-3.60	y	53.0	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	1.57	1.33-1.79	y	51.5	37.5 - 62.5
PCB-19	M/M+2	1.04	0.88-1.20	y	52.3	37.5 - 62.5
PCB-37	M/M+2	0.99	0.88-1.20	y	51.7	37.5 - 62.5
PCB-54	M/M+2	0.78	0.65-0.89	y	51.7	37.5 - 62.5
PCB-77	M/M+2	0.75	0.65-0.89	y	47.3	37.5 - 62.5
PCB-81	M/M+2	0.78	0.65-0.89	y	49.2	37.5 - 62.5
PCB-104	M+2/M+4	1.57	1.32-1.78	y	49.8	37.5 - 62.5
PCB-105	M+2/M+4	1.45	1.32-1.78	y	47.2	37.5 - 62.5
PCB-114	M+2/M+4	1.50	1.32-1.78	y	49.9	37.5 - 62.5
PCB-118	M+2/M+4	1.47	1.32-1.78	y	52.1	37.5 - 62.5
PCB-123	M+2/M+4	1.51	1.32-1.78	y	50.6	37.5 - 62.5
PCB-126	M+2/M+4	1.50	1.32-1.78	y	48.3	37.5 - 62.5
PCB-155	M+2/M+4	1.26	1.05-1.43	y	50.3	37.5 - 62.5
PCB-156	M+2/M+4	1.25	1.05-1.43	y	48.9	37.5 - 62.5
PCB-157	M+2/M+4	1.25	1.05-1.43	y	50.0	37.5 - 62.5
PCB-167	M+2/M+4	1.28	1.05-1.43	y	49.4	37.5 - 62.5
PCB-169	M+2/M+4	1.28	1.05-1.43	y	47.0	37.5 - 62.5
PCB-188	M+2/M+4	1.05	0.89-1.21	y	49.0	37.5 - 62.5
PCB-189	M+2/M+4	1.07	0.89-1.21	y	49.3	37.5 - 62.5
PCB-202	M+2/M+4	0.87	0.76-1.02	y	54.4	37.5 - 62.5
PCB-205	M+2/M+4	0.84	0.76-1.02	y	46.6	37.5 - 62.5
PCB-206	M+4/M+6	1.50	1.13-1.53	y	46.4	37.5 - 62.5
PCB-208	M+4/M+6	1.49	1.13-1.53	y	43.7	37.5 - 62.5
PCB-209	M+4/M+6	1.19	0.99-1.33	y	52.7	37.5 - 62.5

Analyst: _____ Date: 8/19/16

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: 18AUG16Z Sam:14 Analysis Date: 19-AUG-16 05:50:06

	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	2.98	2.66-3.60	y	93.7	50.0 - 145
13C-PCB-3	M/M+2	3.07	2.66-3.60	y	76.5	50.0 - 145
13C-PCB-4	M/M+2	1.58	1.33-1.79	y	101	50.0 - 145
13C-PCB-15	M/M+2	1.50	1.33-1.79	y	76.9	50.0 - 145
13C-PCB-19	M/M+2	1.09	0.88-1.20	y	90.4	50.0 - 145
13C-PCB-37	M/M+2	0.98	0.88-1.20	y	64.7	50.0 - 145
13C-PCB-54	M/M+2	0.78	0.65-0.89	y	106	50.0 - 145
13C-PCB-77	M/M+2	0.81	0.65-0.89	y	78.2	50.0 - 145
13C-PCB-81	M/M+2	0.80	0.65-0.89	y	75.9	50.0 - 145
13C-PCB-104	M+2/M+4	1.61	1.32-1.78	y	91.3	50.0 - 145
13C-PCB-105	M+2/M+4	1.65	1.32-1.78	y	83.2	50.0 - 145
13C-PCB-114	M+2/M+4	1.65	1.32-1.78	y	76.9	50.0 - 145
13C-PCB-118	M+2/M+4	1.58	1.32-1.78	y	81.3	50.0 - 145
13C-PCB-123	M+2/M+4	1.60	1.32-1.78	y	71.5	50.0 - 145
13C-PCB-126	M+2/M+4	1.60	1.32-1.78	y	76.9	50.0 - 145
13C-PCB-155	M+2/M+4	1.29	1.05-1.43	y	95.6	50.0 - 145
13C-PCB-156	M+2/M+4	1.28	1.05-1.43	y	95.9	50.0 - 145
13C-PCB-157	M+2/M+4	1.28	1.05-1.43	y	98.4	50.0 - 145
13C-PCB-167	M+2/M+4	1.27	1.05-1.43	y	96.7	50.0 - 145
13C-PCB-169	M+2/M+4	1.28	1.05-1.43	y	87.4	50.0 - 145
13C-PCB-188	M+2/M+4	1.10	0.89-1.21	y	108	50.0 - 145
13C-PCB-189	M+2/M+4	1.11	0.89-1.21	y	84.1	50.0 - 145
13C-PCB-202	M+2/M+4	0.94	0.76-1.02	y	80.8	50.0 - 145
13C-PCB-205	M+2/M+4	0.89	0.76-1.02	y	101	50.0 - 145
13C-PCB-206	M+2/M+4	0.77	0.65-0.89	y	131	50.0 - 145
13C-PCB-208	M+2/M+4	0.77	0.65-0.89	y	125	50.0 - 145
13C-PCB-209	M+4/M+6	1.18	0.99-1.33	y	138	50.0 - 145
CLEANUP STANDARDS						
13C-PCB-28	M/M+2	1.08	0.88-1.20	y	78.2	65.0 - 135
13C-PCB-111	M+2/M+4	1.57	1.32-1.78	y	89.5	75.0 - 125
13C-PCB-178	M+2/M+4	1.08	0.89-1.21	y	105	75.0 - 125

Analyst: [signature] Date: 8/19/16

FAL ID: ST081816Z2 Filename: 18AUG16Z Sam:14 Acquired: 19-AUG-16 05:50:06 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R150603A ConCal: ST081816Z1 EndCal: ST081816Z2
Results: GC Column: DB1 Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	Rec
PCB-1	1.91e+07	3.28 y	14:31	1.05	51.4		2.50	-	-	*	-
13C-PCB-1	3.54e+07	2.98 y	14:30	1.14	93.7		2.50				93.7
PCB-3	1.56e+07	3.51 y	16:60	1.05	53.0		2.50	-	-	*	-
13C-PCB-3	2.82e+07	3.07 y	16:58	1.11	76.5		2.50				76.5
PCB-4	1.23e+07	1.51 y	18:10	1.14	47.7		2.50	-	-	*	-
13C-PCB-4	2.26e+07	1.58 y	18:10	0.68	101		2.50				101
PCB-15	1.47e+07	1.57 y	23:47	1.09	51.5		2.50	-	-	*	-
13C-PCB-15	2.62e+07	1.50 y	23:46	1.02	76.9		2.50				76.9
PCB-19	1.12e+07	1.04 y	22:03	1.16	52.3		2.50	-	-	*	-
13C-PCB-19	1.85e+07	1.09 y	22:03	0.61	90.4		2.50				90.4
13C-PCB-9	3.32e+07	1.62 y	19:52	-	24.3		2.50				
PCB-37	1.04e+07	0.99 y	30:25	1.14	51.7		2.50	-	-	*	-
13C-PCB-37	1.77e+07	0.98 y	30:24	1.38	64.7		2.50				64.7
PCB-54	1.44e+07	0.78 y	25:36	1.05	51.7		2.50	-	-	*	-
13C-PCB-54	2.64e+07	0.78 y	25:34	1.25	106		2.50				106
PCB-104	9.38e+06	1.57 y	30:01	1.14	49.8		2.50	-	-	*	-
13C-PCB-104	1.65e+07	1.61 y	29:60	0.91	91.3		2.50				91.3
13C-PCB-28	2.30e+07	1.08 y	26:41	1.48	78.2		2.50				78.2
13C-PCB-52	1.98e+07	0.80 y	28:55	-	23.8		2.50				
PCB-81	9.11e+06	0.78 y	36:10	1.14	49.2		2.50	-	-	*	-
13C-PCB-81	1.62e+07	0.80 y	36:09	1.27	75.9		2.50				75.9
PCB-77	8.68e+06	0.75 y	36:44	1.10	47.3		2.50	-	-	*	-
13C-PCB-77	1.67e+07	0.81 y	36:43	1.27	78.2		2.50				78.2
PCB-155	9.73e+06	1.26 y	34:10	1.11	50.3		2.50	-	-	*	-
13C-PCB-155	1.74e+07	1.29 y	34:09	1.09	95.6		2.50				95.6
13C-PCB-111	1.88e+07	1.57 y	36:15	1.25	89.5		2.50				89.5
13C-PCB-101	1.68e+07	1.59 y	34:36	-	23.0		2.50				
PCB-123	6.43e+06	1.51 y	38:19	1.05	50.6		2.50	-	-	*	-
13C-PCB-123	1.21e+07	1.60 y	38:17	1.20	71.5		2.50				71.5
PCB-118	8.31e+06	1.47 y	38:30	1.07	52.1		2.50	-	-	*	-
13C-PCB-118	1.50e+07	1.58 y	38:29	1.31	81.3		2.50				81.3
PCB-114	7.21e+06	1.50 y	39:06	1.08	49.9		2.50	-	-	*	-
13C-PCB-114	1.33e+07	1.65 y	39:05	1.23	76.9		2.50				76.9
PCB-105	7.39e+06	1.45 y	39:56	1.08	47.2		2.50	-	-	*	-
13C-PCB-105	1.45e+07	1.65 y	39:54	1.24	83.2		2.50				83.2
PCB-126	6.54e+06	1.50 y	42:04	1.07	48.3		2.50	-	-	*	-
13C-PCB-126	1.27e+07	1.60 y	42:04	1.17	76.9		2.50				76.9
PCB-167	8.15e+06	1.28 y	43:23	0.98	49.4		2.50	-	-	*	-
13C-PCB-167	1.68e+07	1.27 y	43:23	1.24	96.7		2.50				96.7
PCB-156	7.86e+06	1.25 y	44:37	1.01	48.9		2.50	-	-	*	-
13C-PCB-156	1.59e+07	1.28 y	44:37	1.18	95.9		2.50				95.9
PCB-157	8.14e+06	1.25 y	44:52	0.96	50.0		2.50	-	-	*	-
13C-PCB-157	1.69e+07	1.28 y	44:52	1.22	98.4		2.50				98.4
PCB-169	6.37e+06	1.28 y	46:46	1.00	47.0		2.50	-	-	*	-
13C-PCB-169	1.36e+07	1.28 y	46:46	1.11	87.4		2.50				87.4
PCB-188	9.95e+06	1.05 y	39:39	1.09	49.0		2.50	-	-	*	-
13C-PCB-188	1.85e+07	1.10 y	39:38	1.22	108		2.50				108
PCB-189	6.42e+06	1.07 y	48:24	1.14	49.3		2.50	-	-	*	-
13C-PCB-189	1.14e+07	1.11 y	48:23	0.97	84.1		2.50				84.1
PCB-202	5.71e+06	0.87 y	44:45	1.05	54.4		2.50	-	-	*	-
13C-PCB-202	9.95e+06	0.94 y	44:45	0.88	80.8		2.50				80.8
13C-PCB-178	1.13e+07	1.08 y	42:17	0.77	105		2.50				105
13C-PCB-138	1.40e+07	1.28 y	41:31	-	20.1		2.50				

FAL ID: ST081816Z2 Filename: 18AUG16Z Sam:14 Acquired: 19-AUG-16 05:50:06 ICal: 1668FAL4-8-11-16
Client ID: 1668 CS3 R150603A ConCal: ST081816Z1 EndCal: ST081816Z2
Results: GC Column: DB1 Amount: 1.000

PCB-205	4.93e+06	0.84 y	50:03	1.02	46.6	2.50	-	-	*	-
13C-PCB-205	1.04e+07	0.89 y	50:03	1.38	101	2.50				101
PCB-208	5.00e+06	1.49 y	49:07	0.93	43.7	2.50	-	-	*	-
13C-PCB-208	1.23e+07	0.77 y	49:06	1.31	125	2.50				125
PCB-206	4.32e+06	1.50 y	51:14	0.94	46.4	2.50	-	-	*	-
13C-PCB-206	9.93e+06	0.77 y	51:13	1.01	131	2.50				131
PCB-209	8.04e+06	1.19 y	52:25	1.10	52.7	2.50	-	-	*	-
13C-PCB-209	1.38e+07	1.18 y	52:24	1.34	138	2.50				138
13C-PCB-194	7.48e+06	0.93 y	49:47	-	14.9	2.50				

Analyst: [signature] Date: 8/19/16

Frontier Analytical Laboratory - Acquisition Log

Run Name:18AUG16Z Instrument: FAL4 GC: DB1 Experiment:1668PCB

Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
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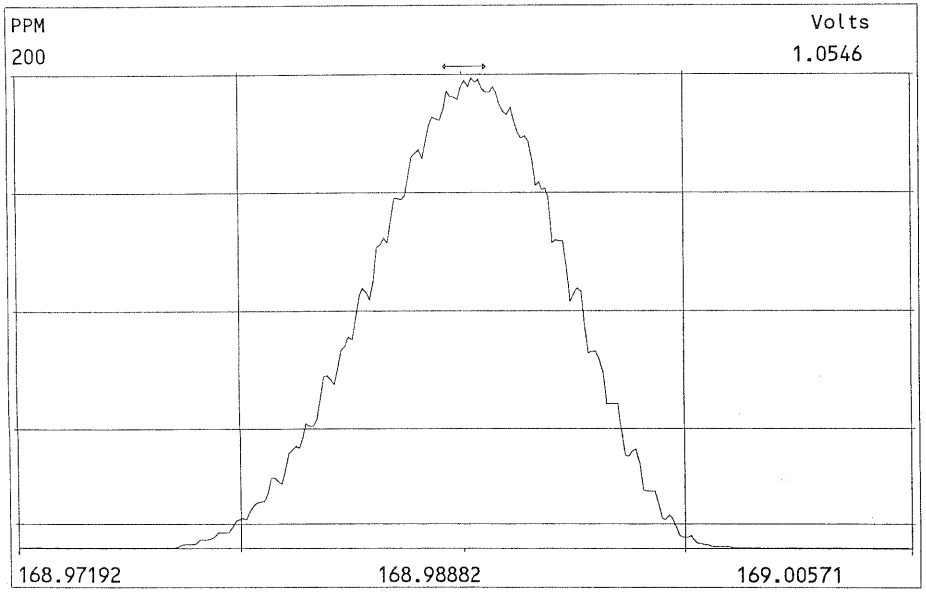
18AUG16Z	2	SS081816Z1	Daily 209 160711B	18-AUG-16 17:50:51	ST081816Z1	ST081816Z2	BS
18AUG16Z	3	03814-001-0001-OPR	OPR	18-AUG-16 18:50:50	ST081816Z1	ST081816Z2	BS
18AUG16Z	4	03814-001-0001-MB	Method Blank	18-AUG-16 19:50:48	ST081816Z1	ST081816Z2	BS
18AUG16Z	5	10051-001-X002-SA	LDW-BA-PC-ENRMATERIAL-GAC	18-AUG-16 20:50:46	ST081816Z1	ST081816Z2	BS
18AUG16Z	6	10095-001-0001-SA	LDW-BA-PC-ENRMAT-SAND	18-AUG-16 21:50:41	ST081816Z1	ST081816Z2	BS
18AUG16Z	7	10095-002-0001-SA	LDW-BA-PC-ENRMAT-GRUSAND	18-AUG-16 22:50:38	ST081816Z1	ST081816Z2	BS
18AUG16Z	8	QC081816Z1	QCA	18-AUG-16 23:50:35	ST081816Z1	ST081816Z2	BS
18AUG16Z	9	03816-001-0001-OPR	OPR	19-AUG-16 00:50:32	ST081816Z1	ST081816Z2	BS
18AUG16Z	10	03816-001-0001-MB	Method Blank	19-AUG-16 01:50:28	ST081816Z1	ST081816Z2	BS
18AUG16Z	11	10051-001-X003-SA	LDW-BA-PC-ENRMATERIAL-GAC	19-AUG-16 02:50:24	ST081816Z1	ST081816Z2	BS
18AUG16Z	12	SB081816Z1	Solvent Blank	19-AUG-16 03:50:20	ST081816Z1	ST081816Z2	BS
18AUG16Z	13	SB081816Z2	Solvent Blank	19-AUG-16 04:50:13	ST081816Z1	ST081816Z2	BS
18AUG16Z	14	ST081816Z2	1668 CS3 R150603A	19-AUG-16 05:50:06	ST081816Z1	ST081816Z2	BS

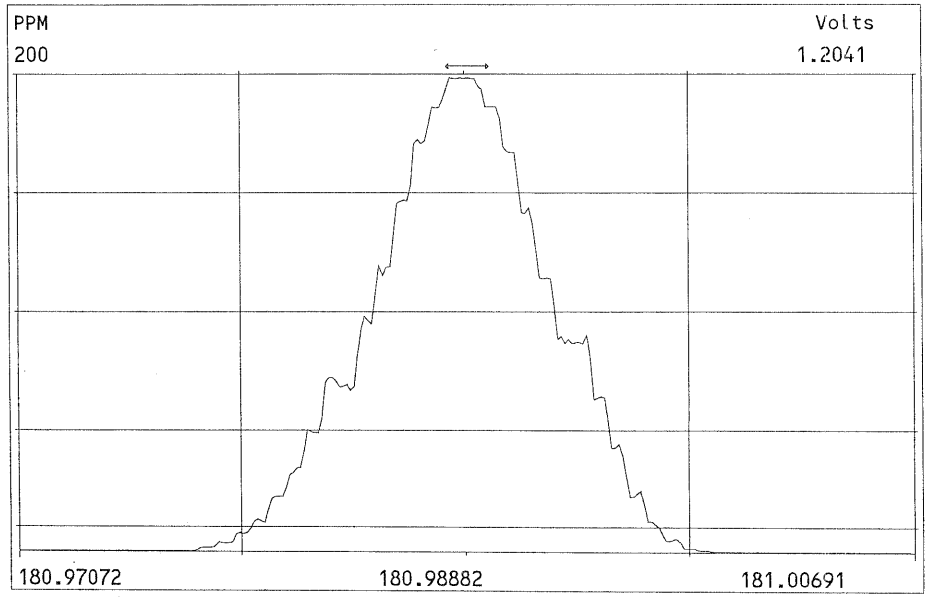
b 8/19/16

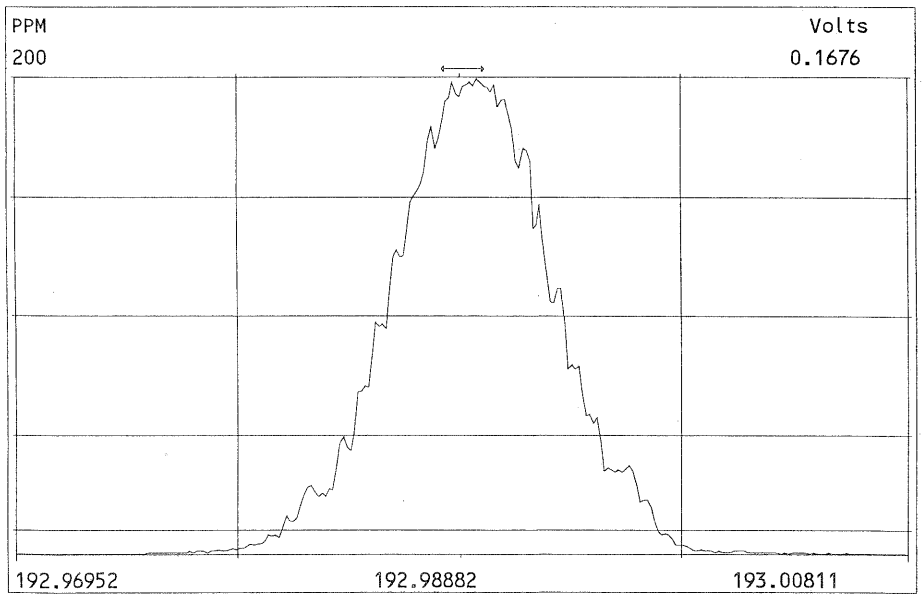
Data Backed Up:_____

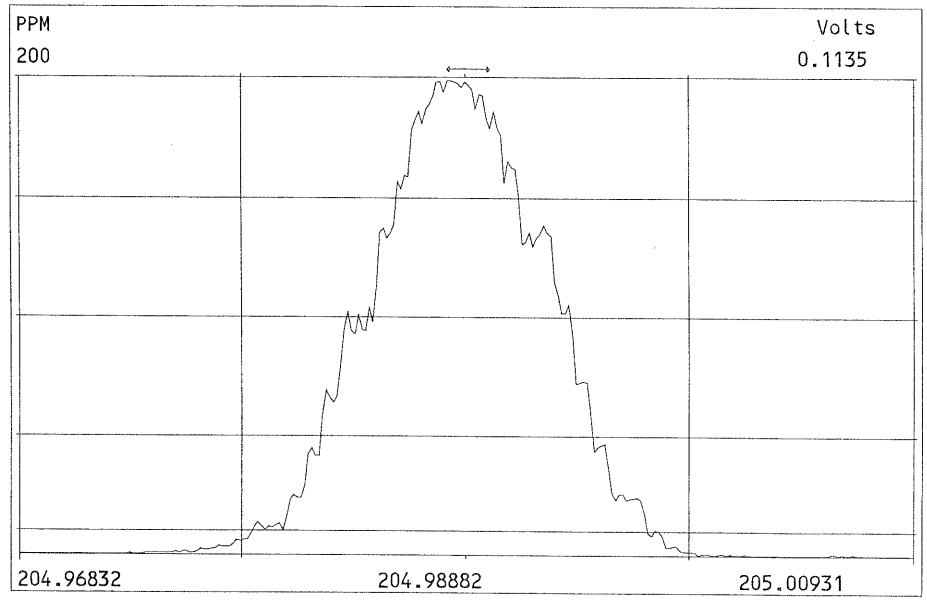
Date:_____

Peak Locate Examination:18-AUG-2016:16:47 File:18AUG16Z
Experiment:1668PCB Function:1 Reference:PFK

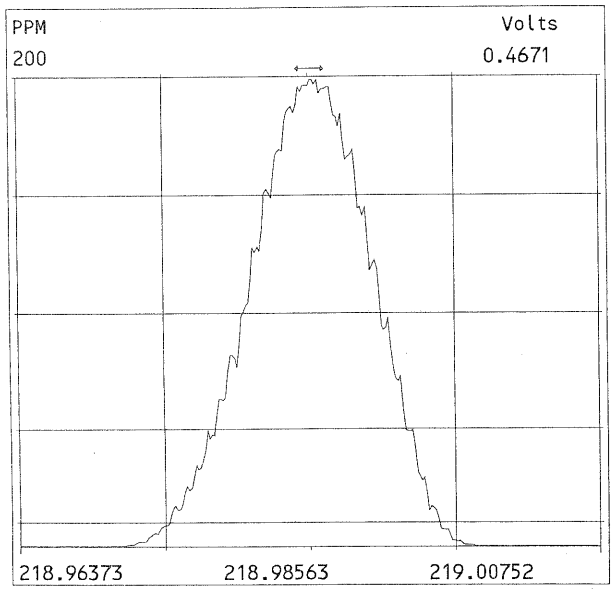


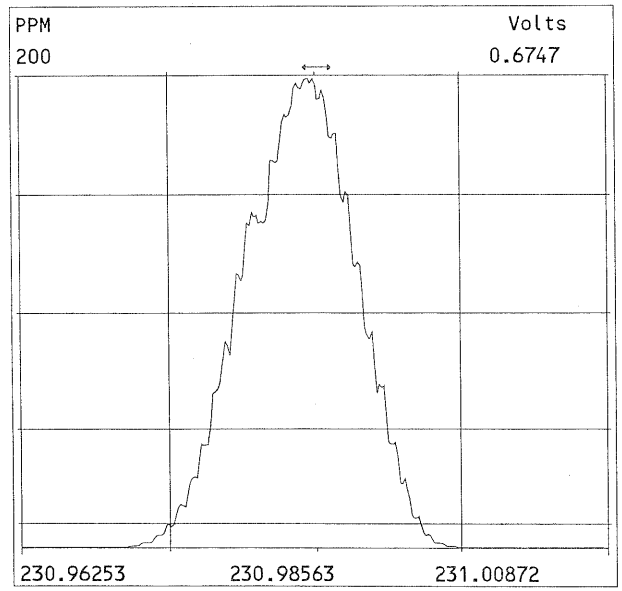


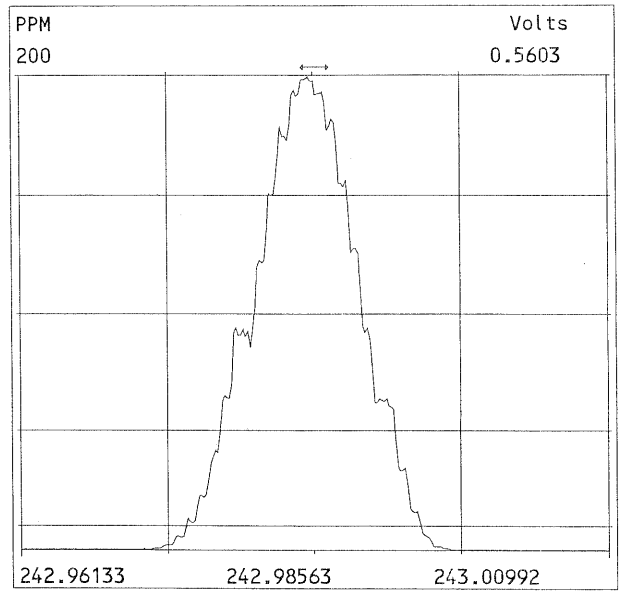


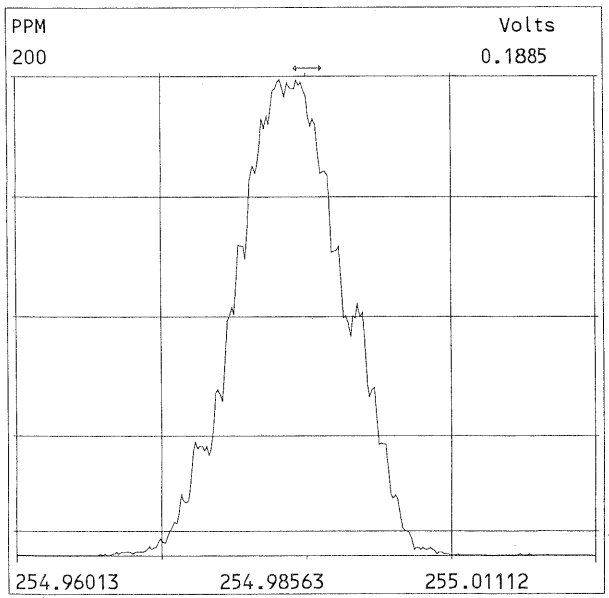


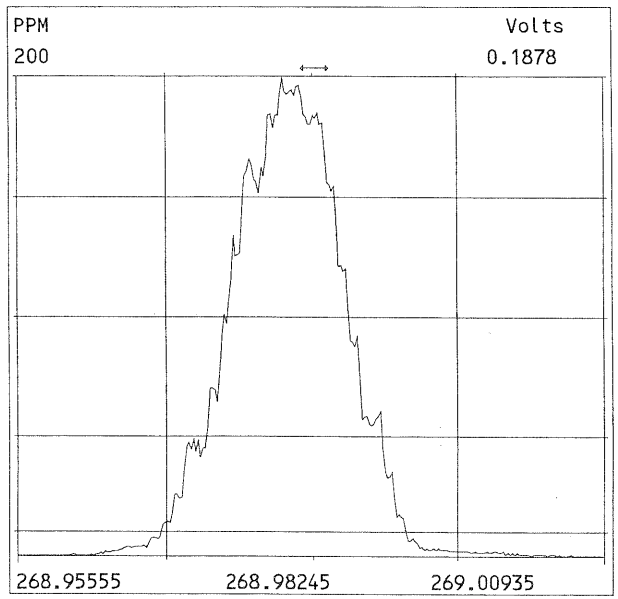
Peak Locate Examination:18-AUG-2016:16:48 File:18AUG16Z
Experiment:1668PCB Function:2 Reference:PFK

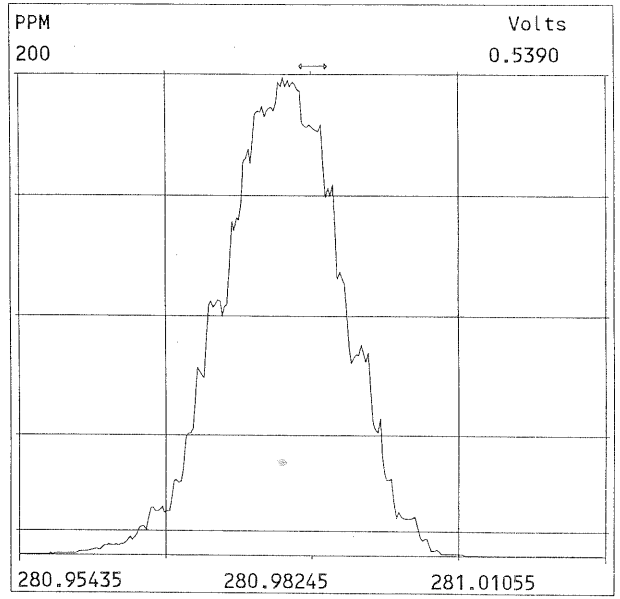




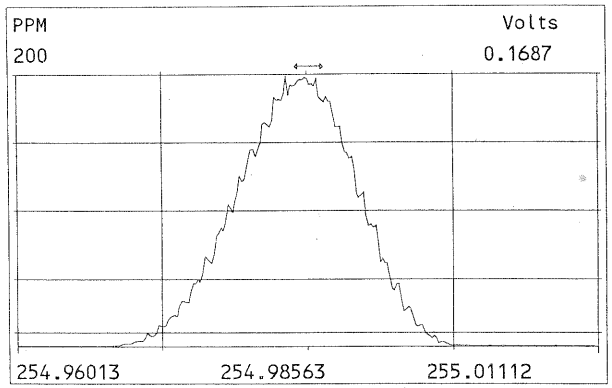


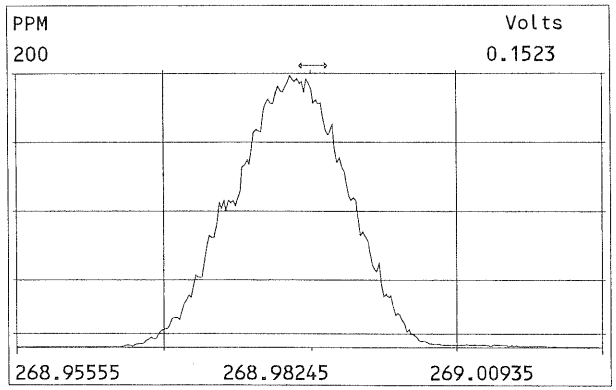


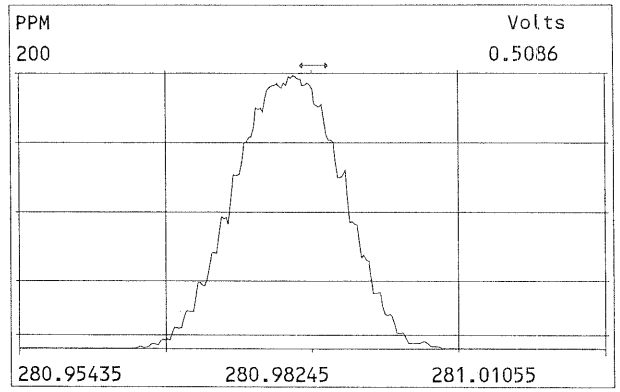


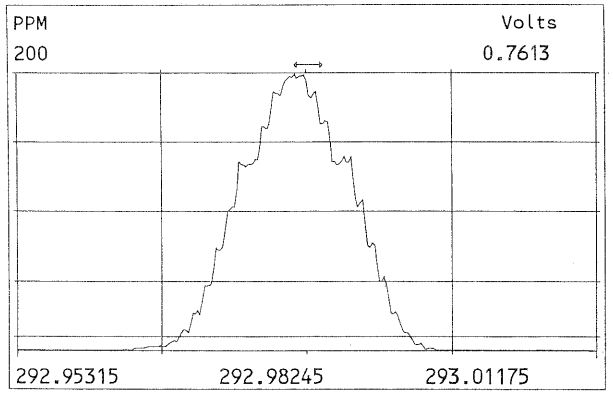


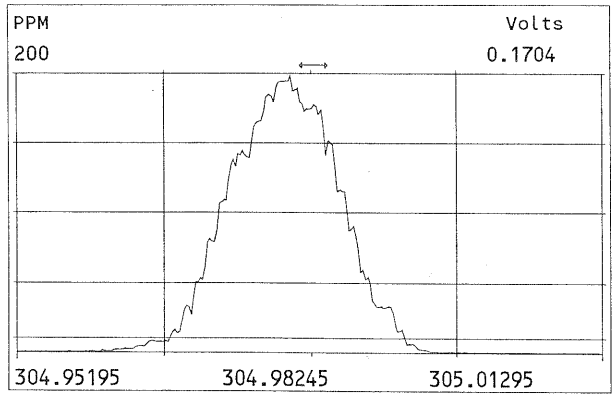
Peak Locate Examination:18-AUG-2016:16:48 File:18AUG16Z
Experiment:1668PCB Function:3 Reference:PFK

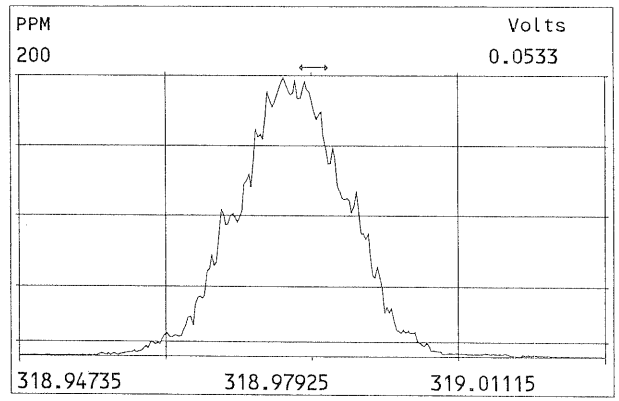


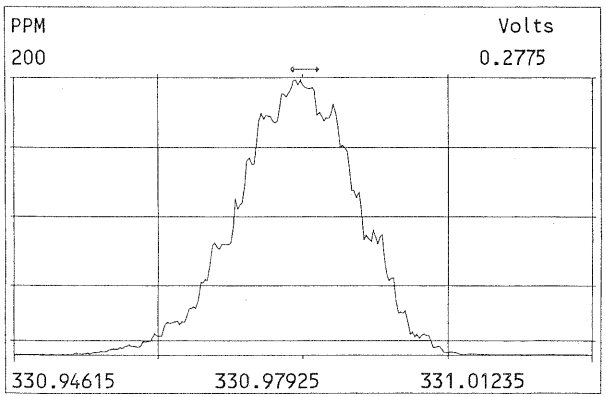


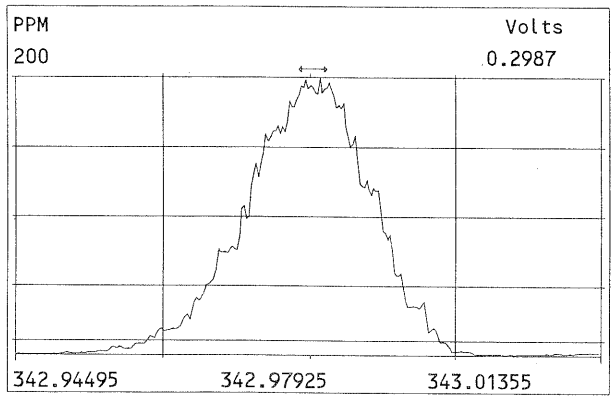




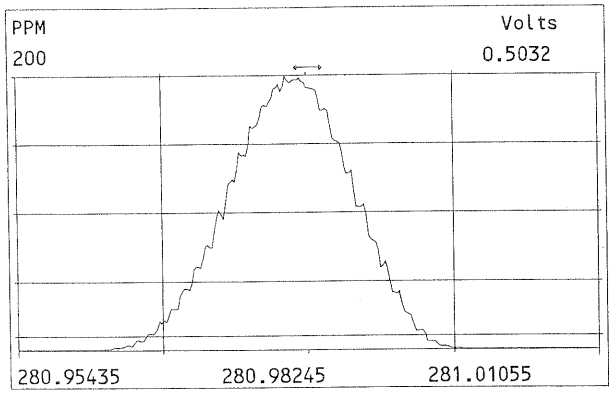


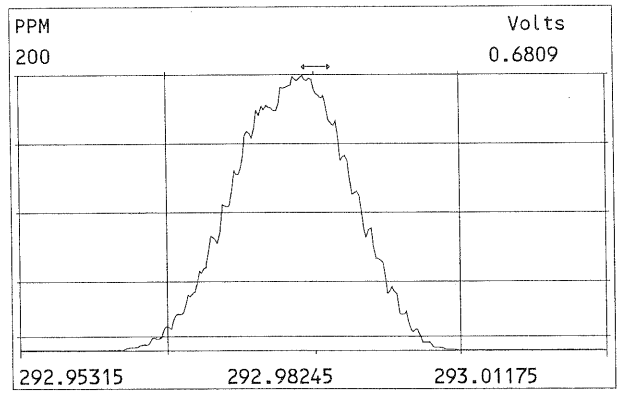


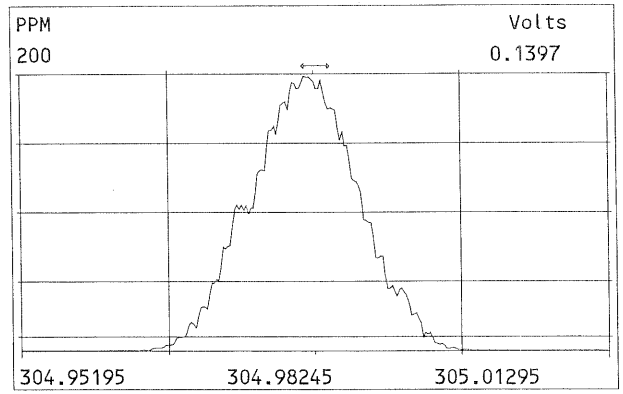


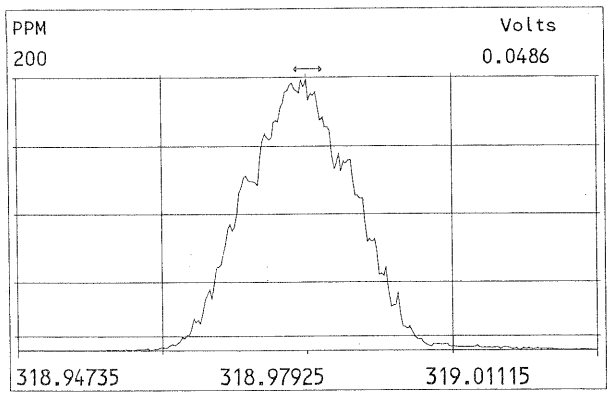


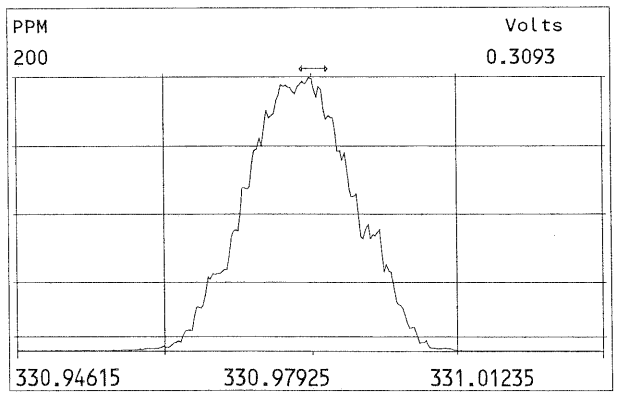
Peak Locate Examination:18-AUG-2016:16:48 File:18AUG16Z
Experiment:1668PCB Function:4 Reference:PFK

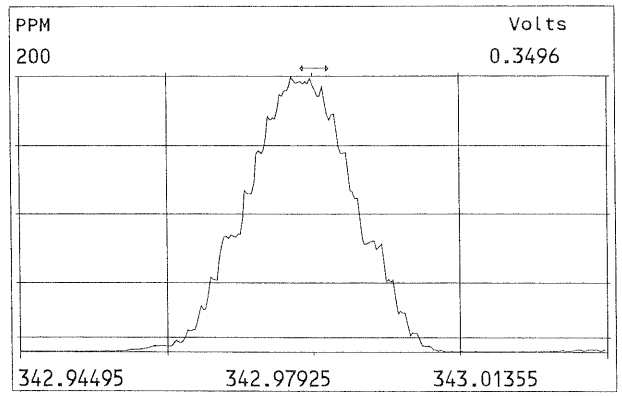


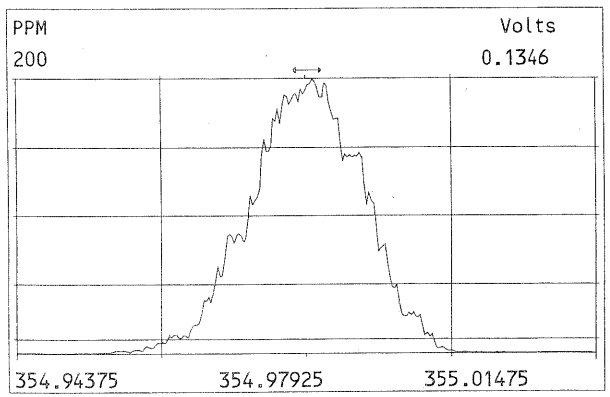


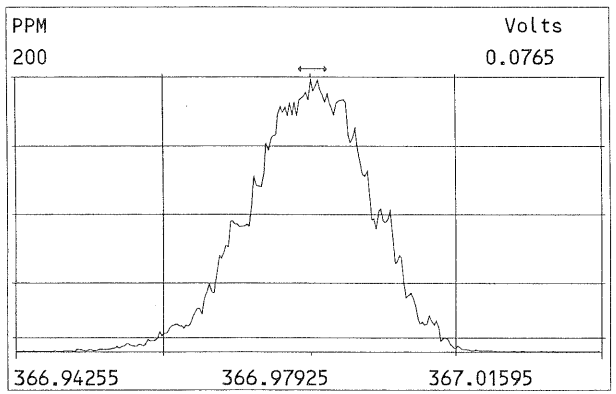


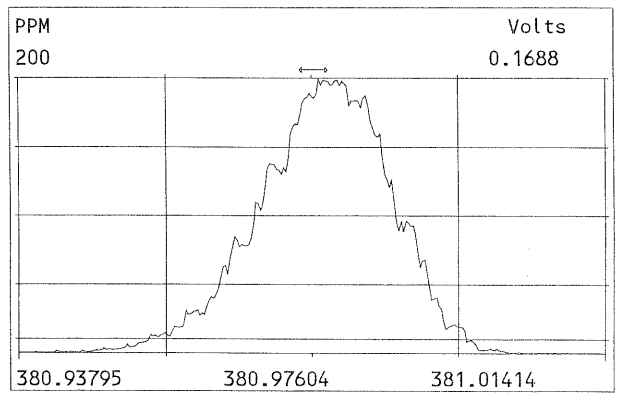












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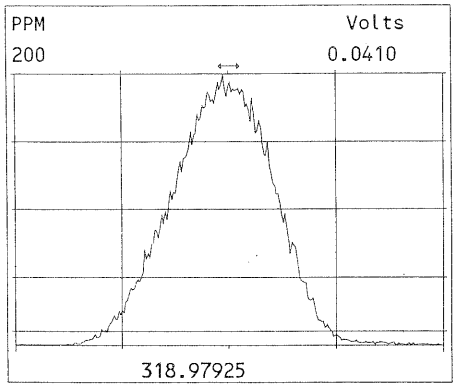
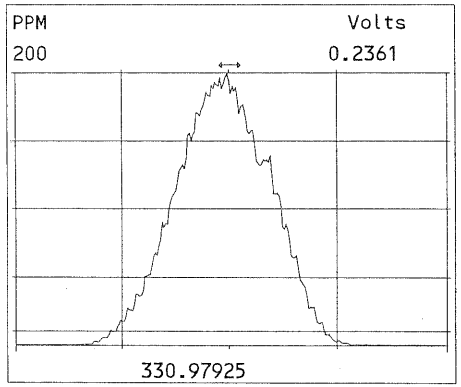
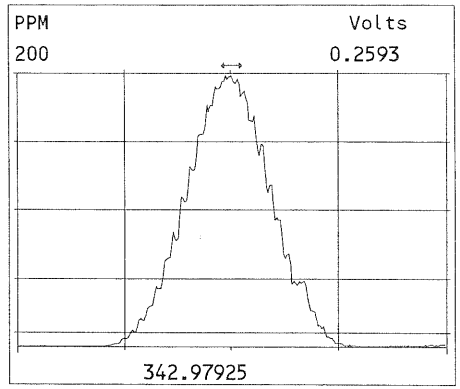
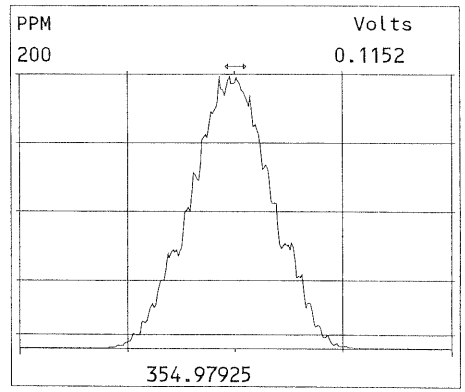
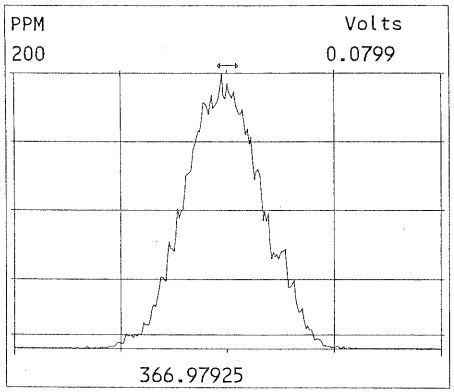
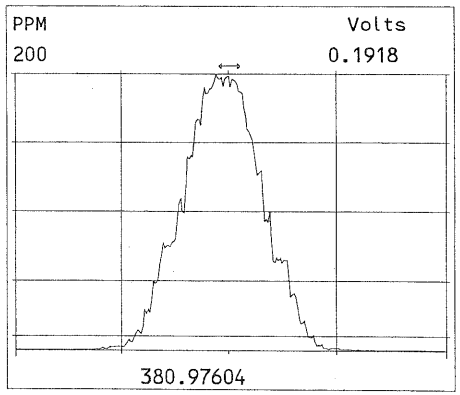


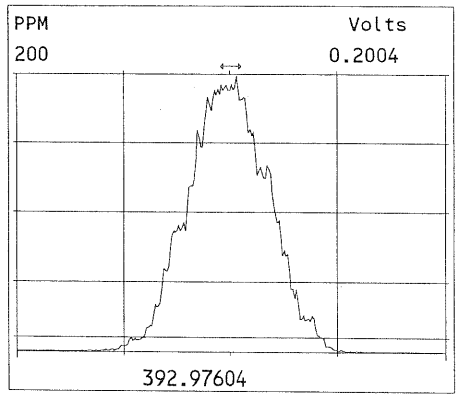


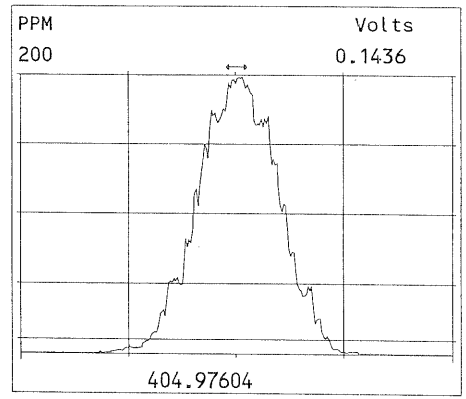


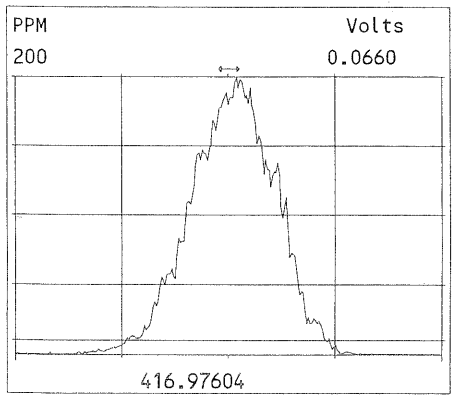


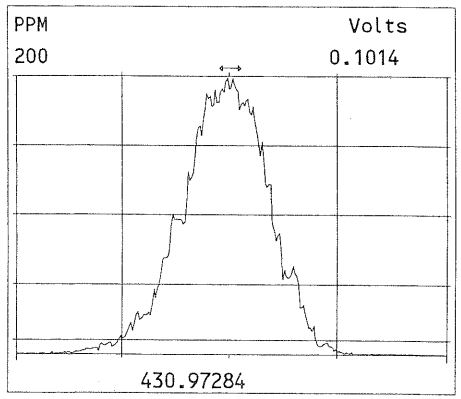


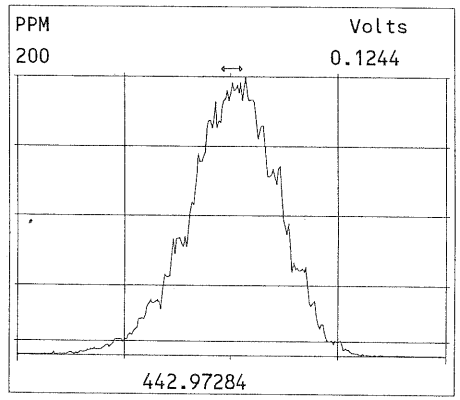




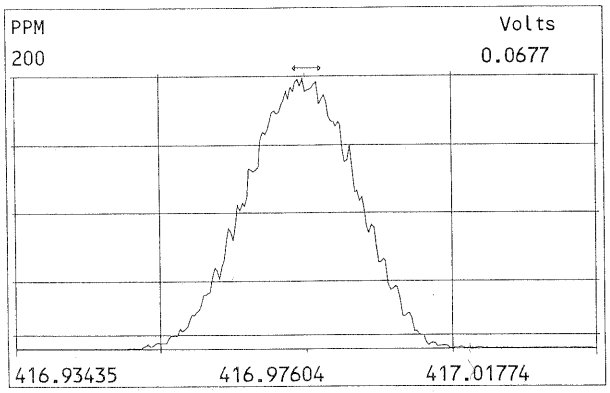


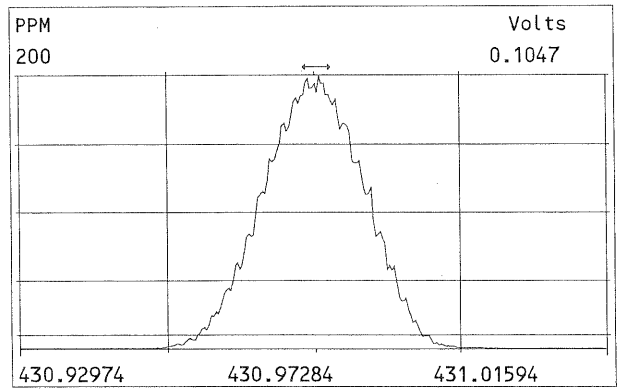


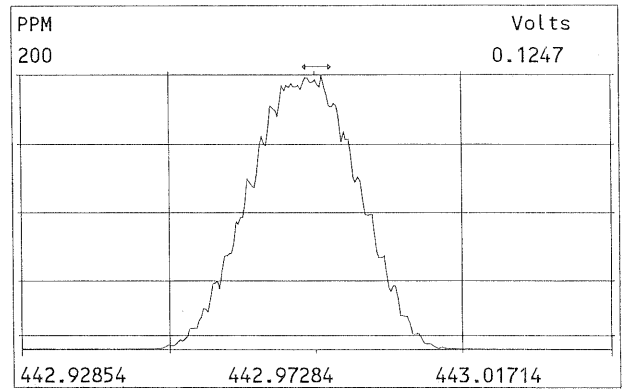


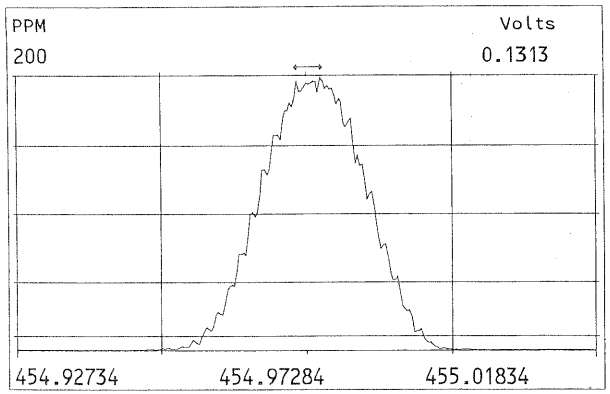


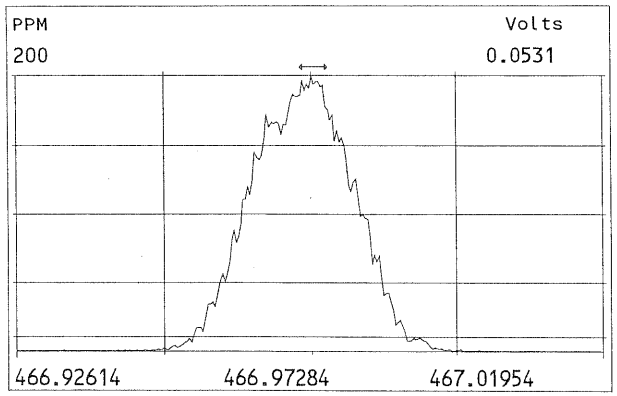
Peak Locate Examination:18-AUG-2016:16:50 File:18AUG16Z
Experiment:1668PCB Function:6 Reference:PFK

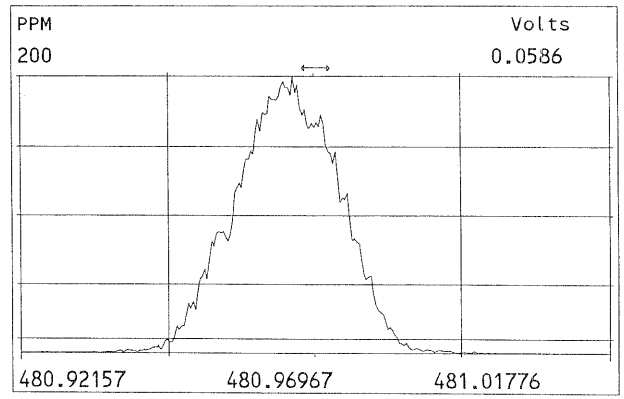


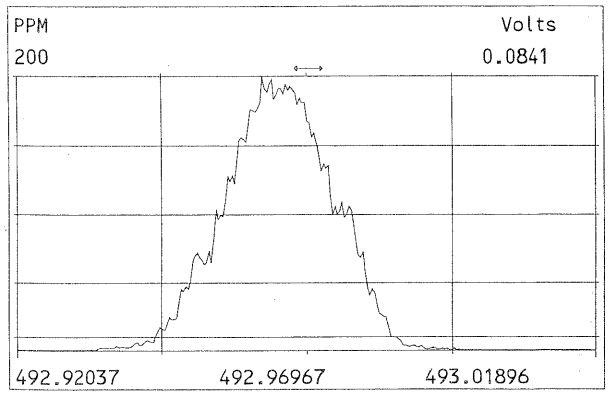


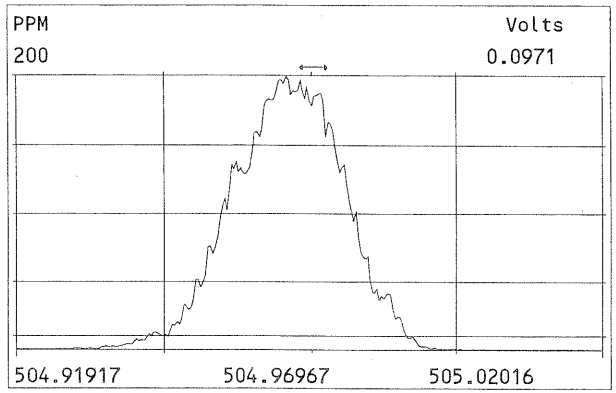


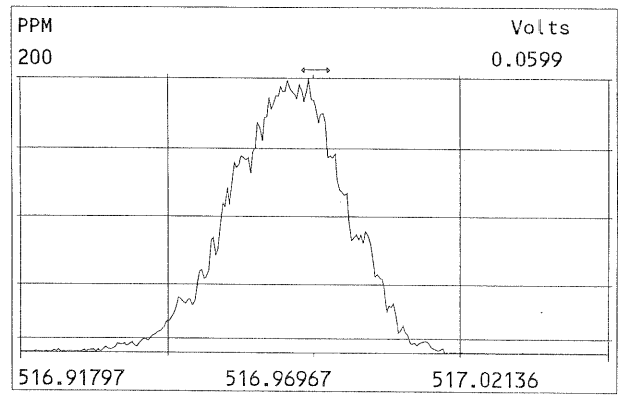












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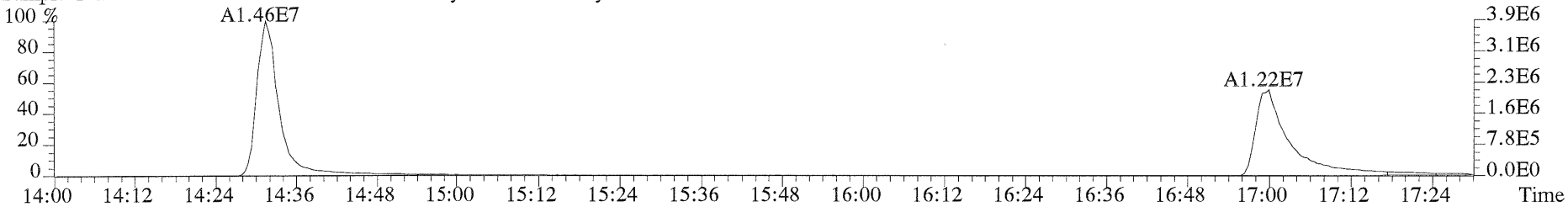
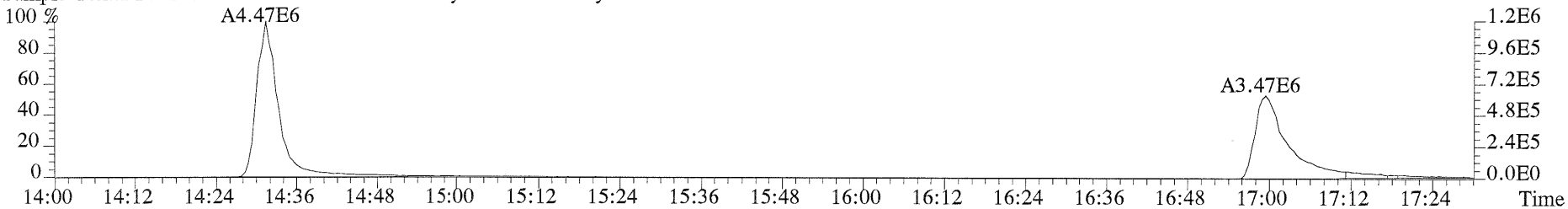
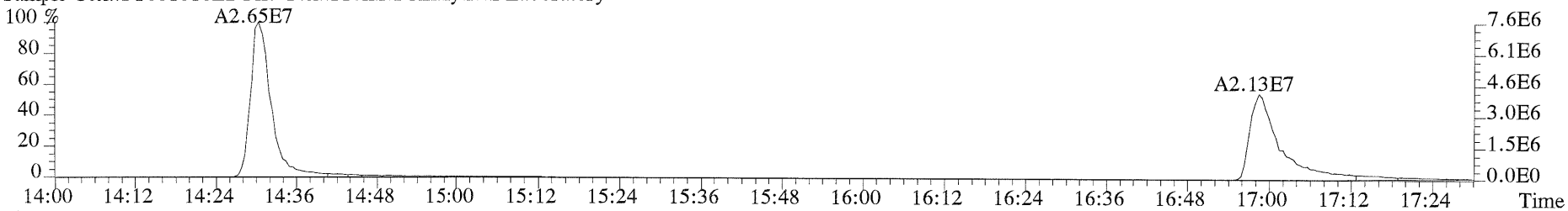
188.0393 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



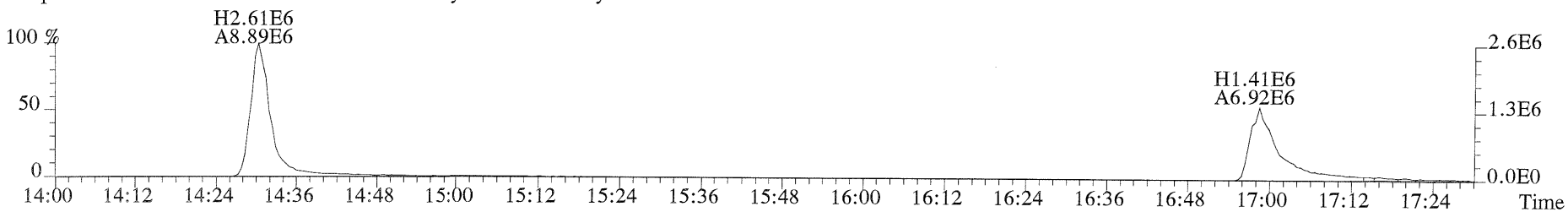
File:18AUG16Z #1-901 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
190.0363 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



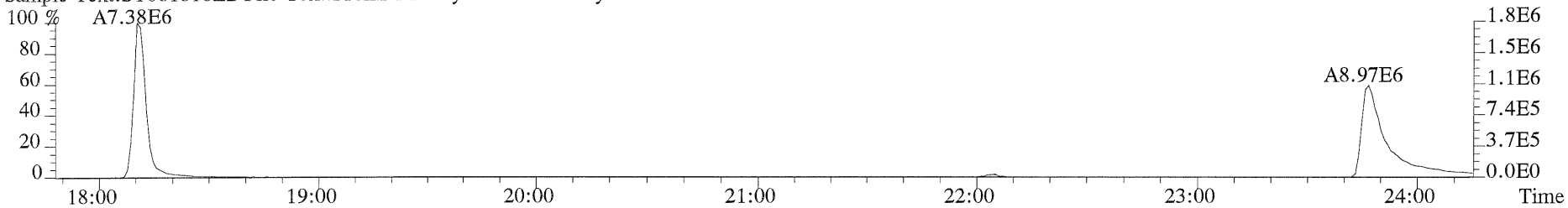
File:18AUG16Z #1-901 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
200.0795 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



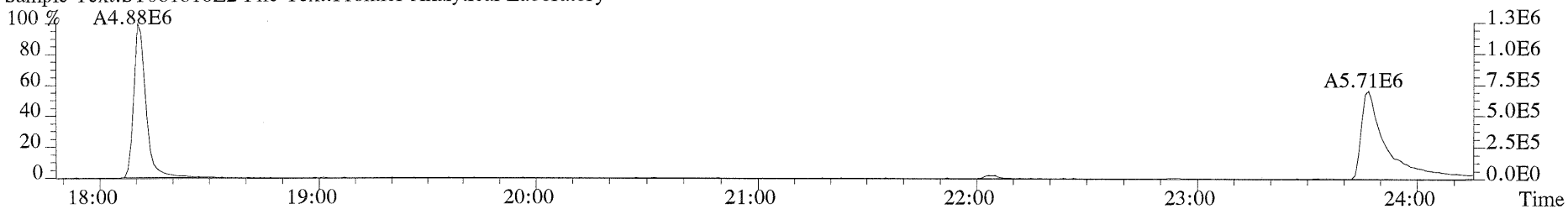
File:18AUG16Z #1-901 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
202.0766 S:14 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



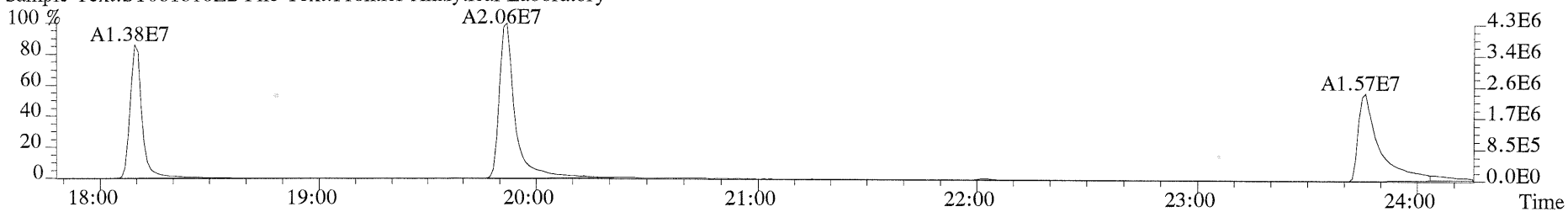
File:18AUG16Z #1-509 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
222.0003 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



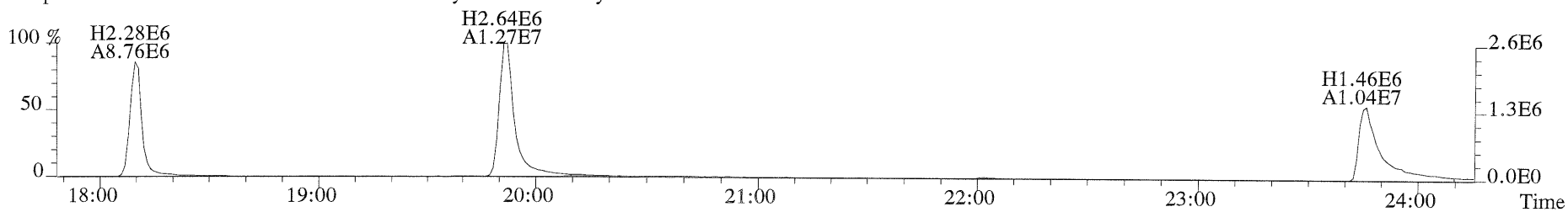
File:18AUG16Z #1-509 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
223.9974 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



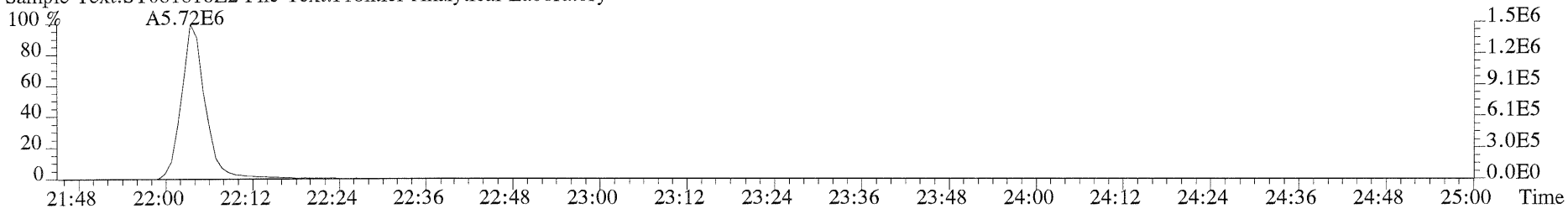
File:18AUG16Z #1-509 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
234.0406 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



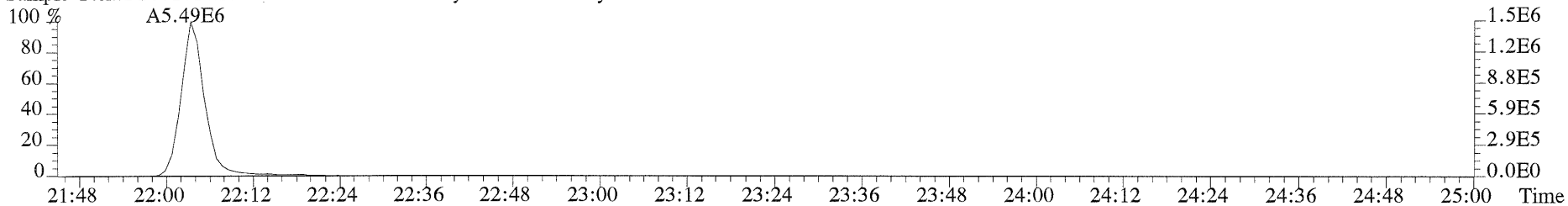
File:18AUG16Z #1-509 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
236.0376 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



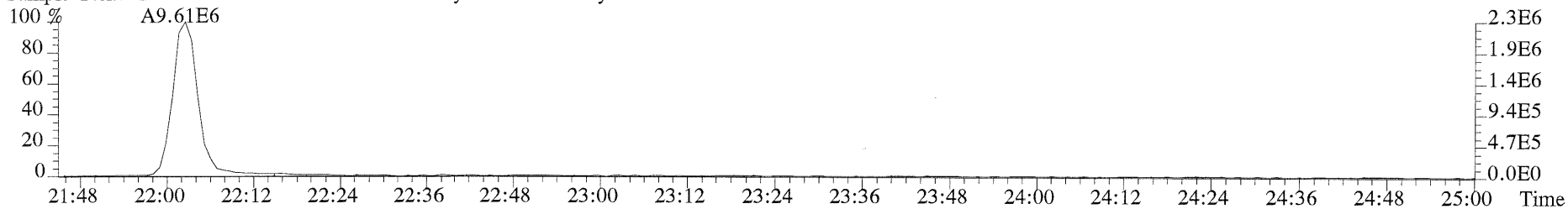
File:18AUG16Z #1-509 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



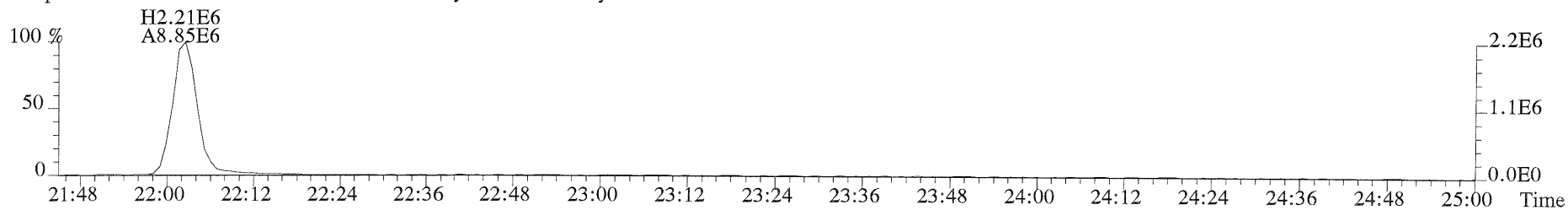
File:18AUG16Z #1-509 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



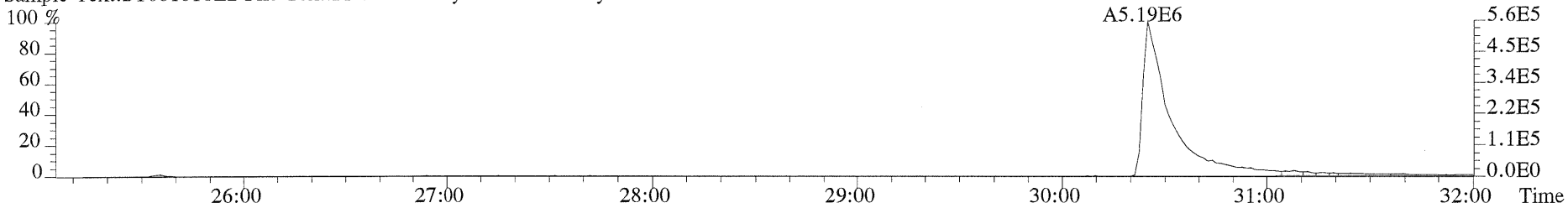
File:18AUG16Z #1-509 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



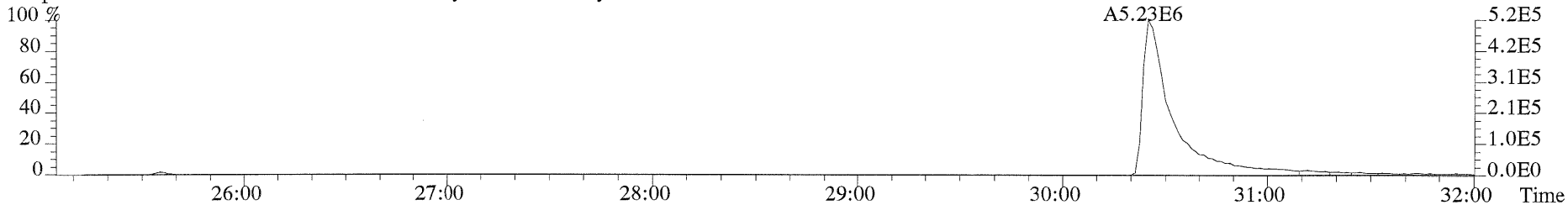
File:18AUG16Z #1-509 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:14 F:2 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



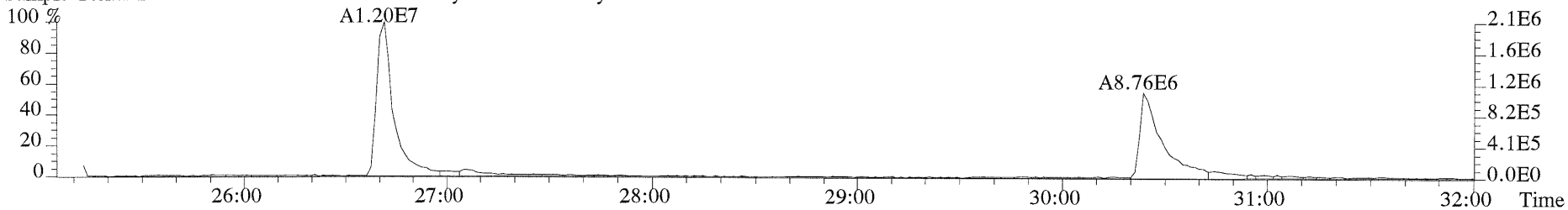
File:18AUG16Z #1-403 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
255.9613 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



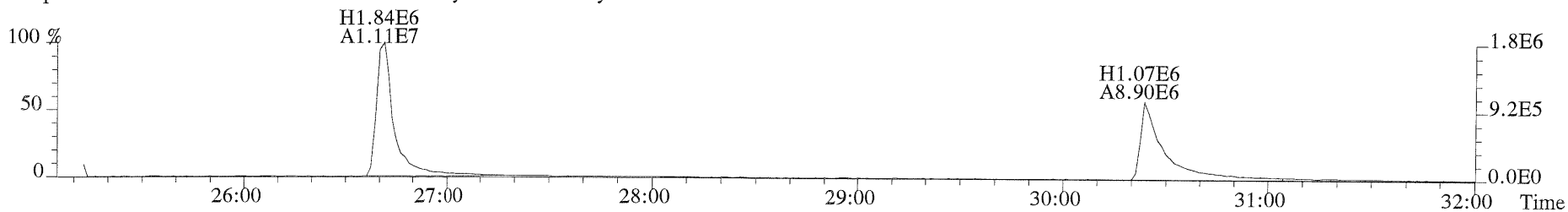
File:18AUG16Z #1-403 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
257.9584 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



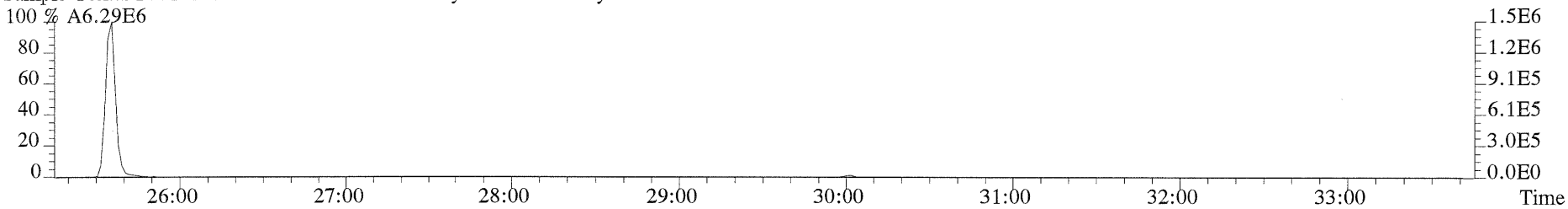
File:18AUG16Z #1-403 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
268.0016 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



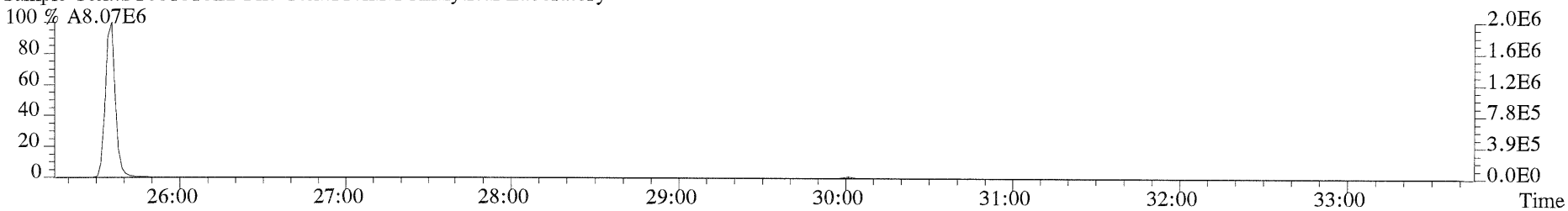
File:18AUG16Z #1-403 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
269.9986 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



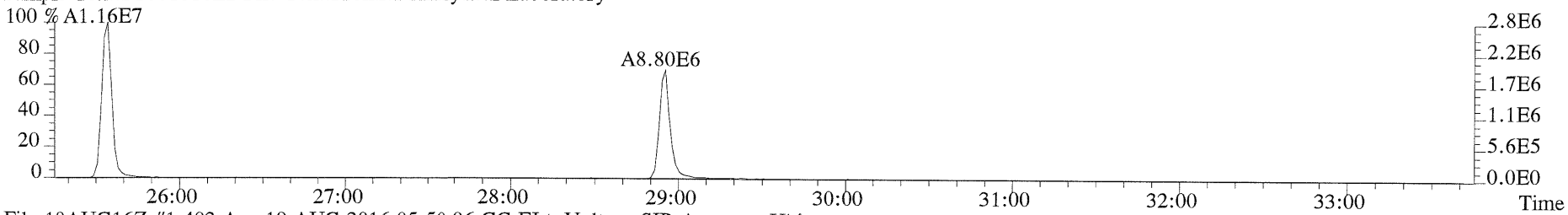
File:18AUG16Z #1-403 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



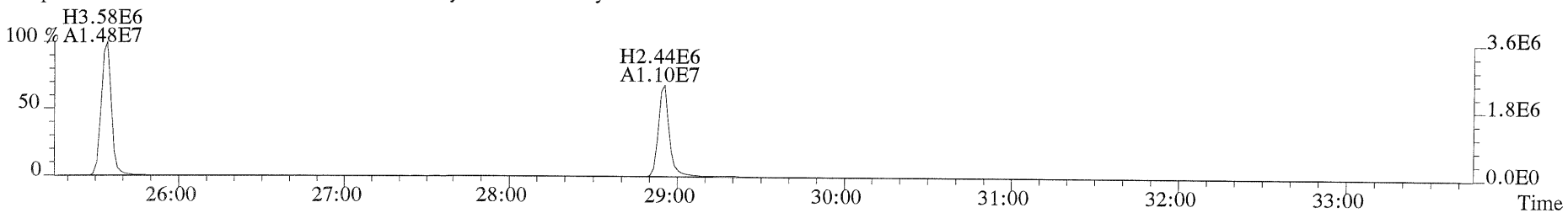
File:18AUG16Z #1-403 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



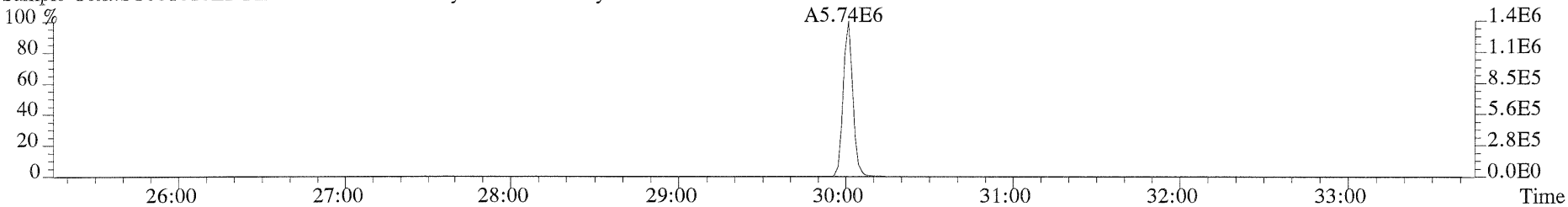
File:18AUG16Z #1-403 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



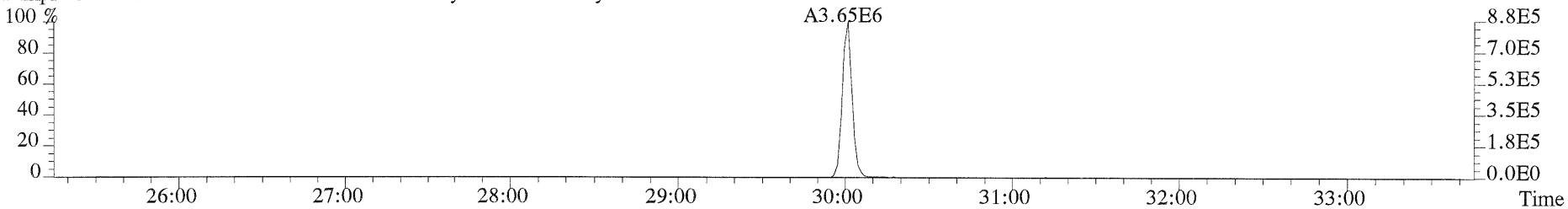
File:18AUG16Z #1-403 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



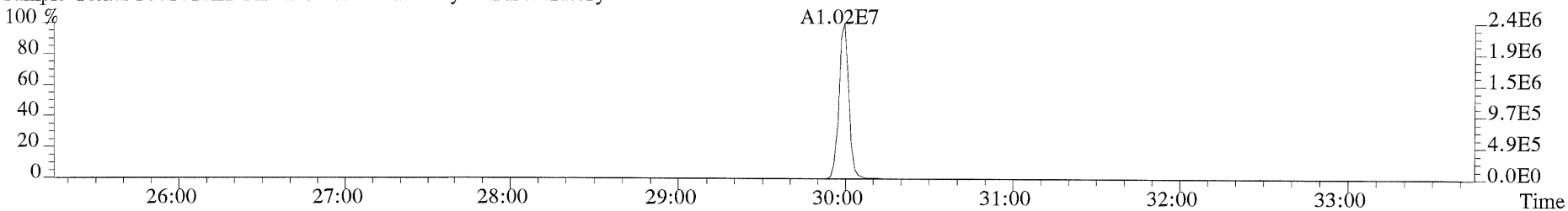
File:18AUG16Z #1-403 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



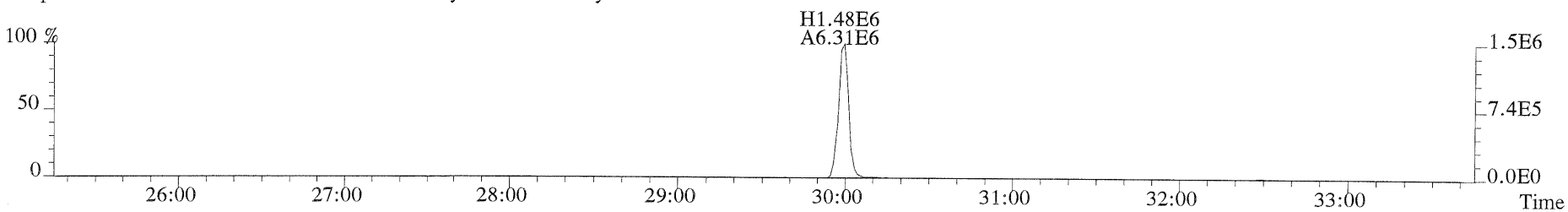
File:18AUG16Z #1-403 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



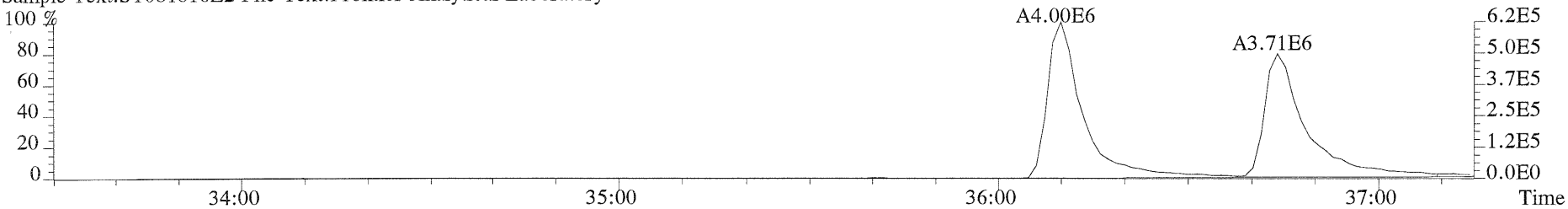
File:18AUG16Z #1-403 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



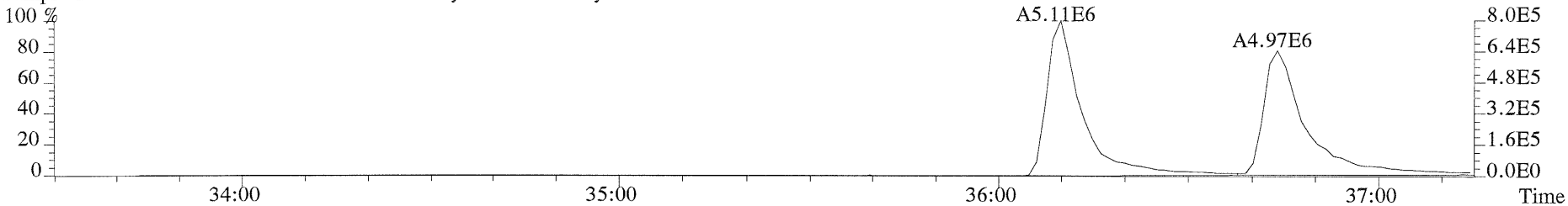
File:18AUG16Z #1-403 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:3 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



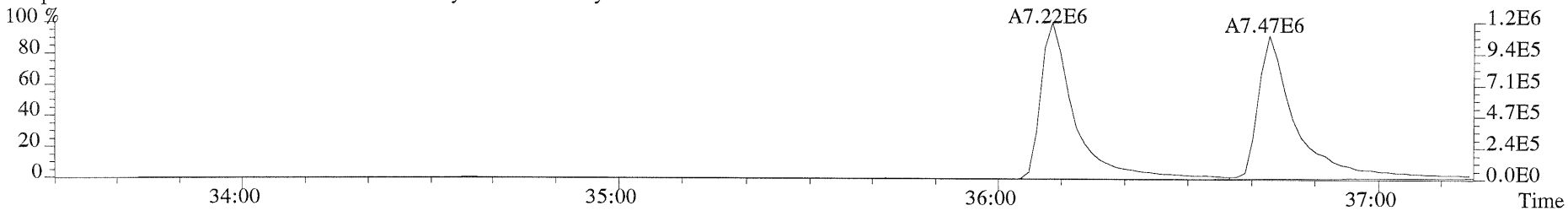
File:18AUG16Z #1-179 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
289.9224 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



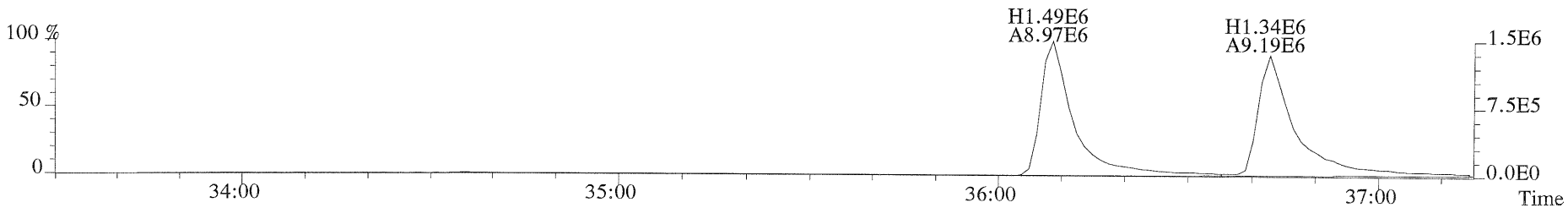
File:18AUG16Z #1-179 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
291.9194 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



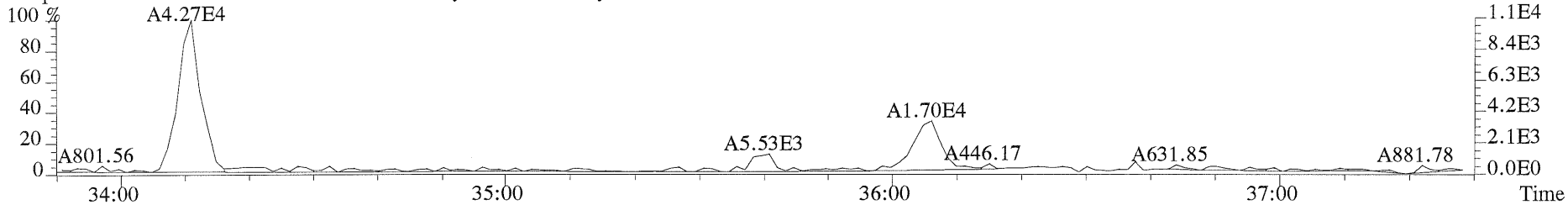
File:18AUG16Z #1-179 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
301.9626 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



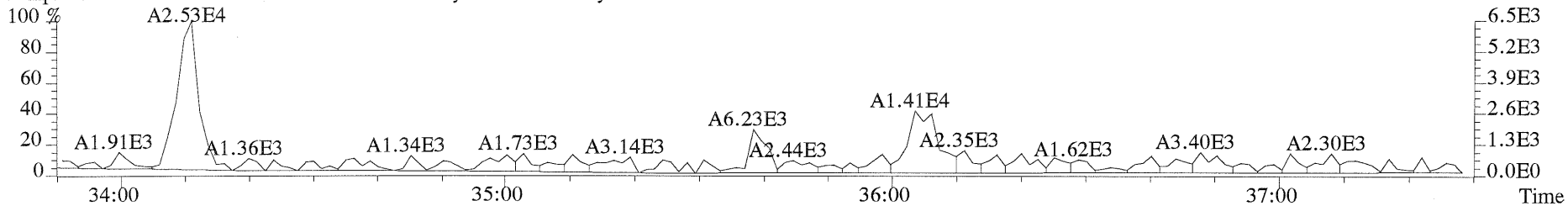
File:18AUG16Z #1-179 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
303.9597 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



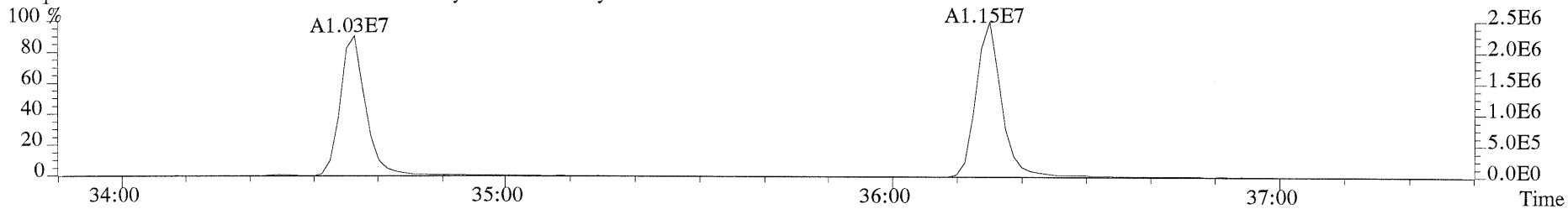
File:18AUG16Z #1-179 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



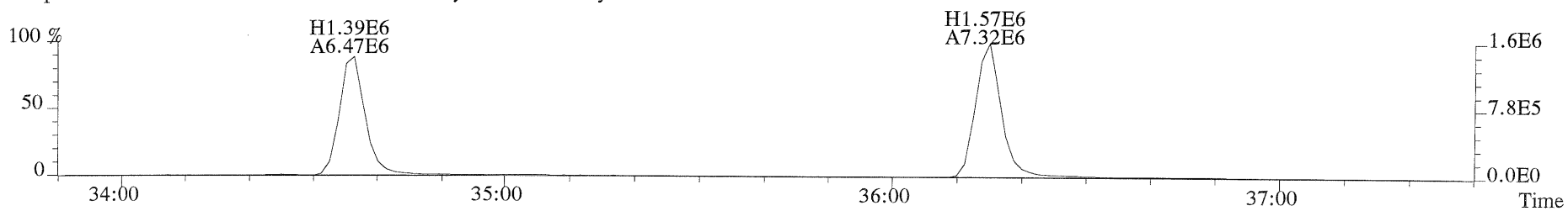
File:18AUG16Z #1-179 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



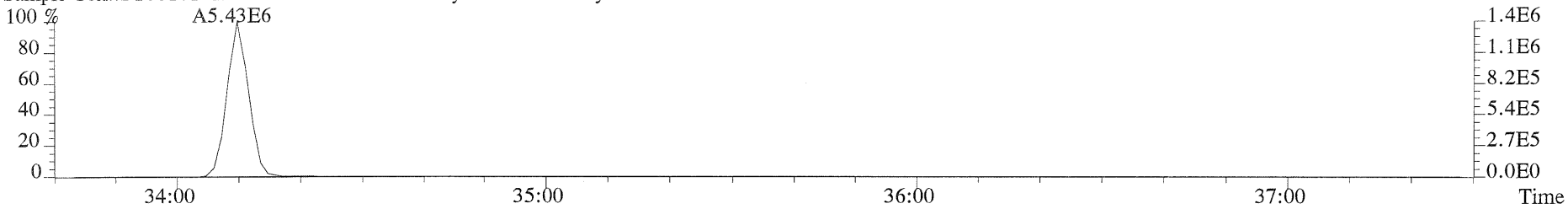
File:18AUG16Z #1-179 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



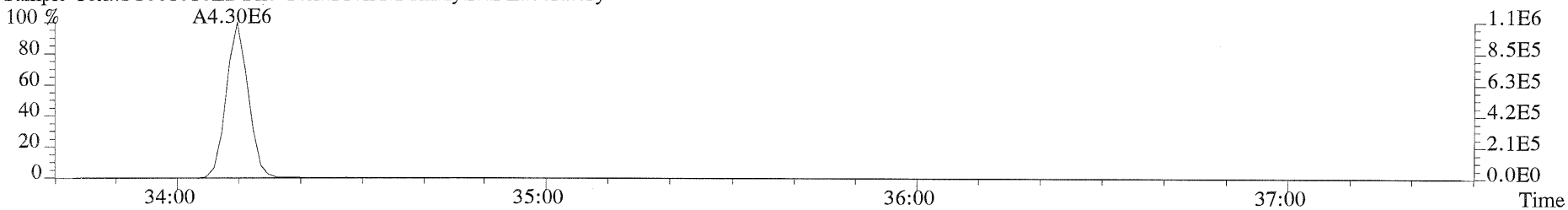
File:18AUG16Z #1-179 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



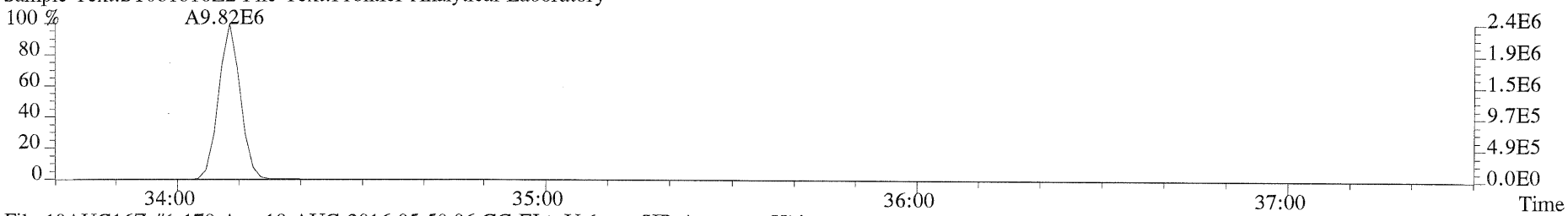
File:18AUG16Z #1-179 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



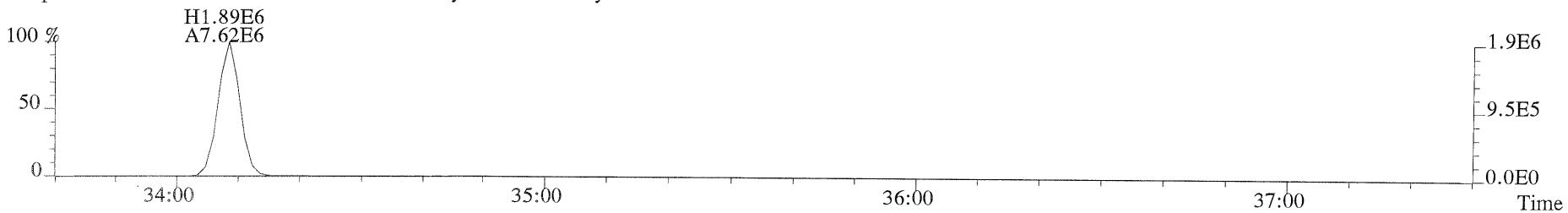
File:18AUG16Z #1-179 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



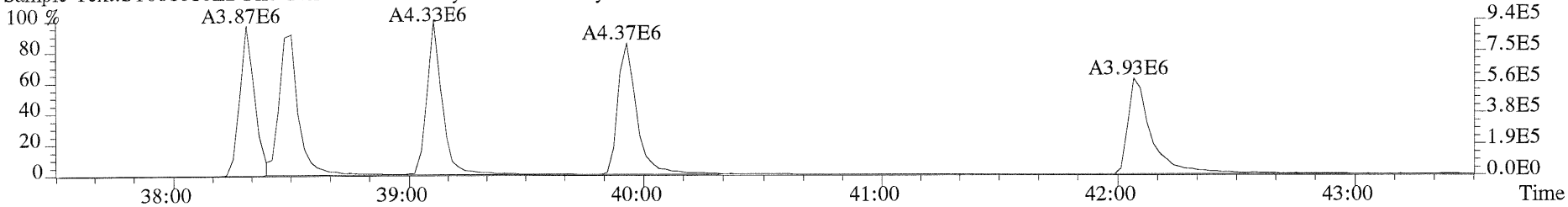
File:18AUG16Z #1-179 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



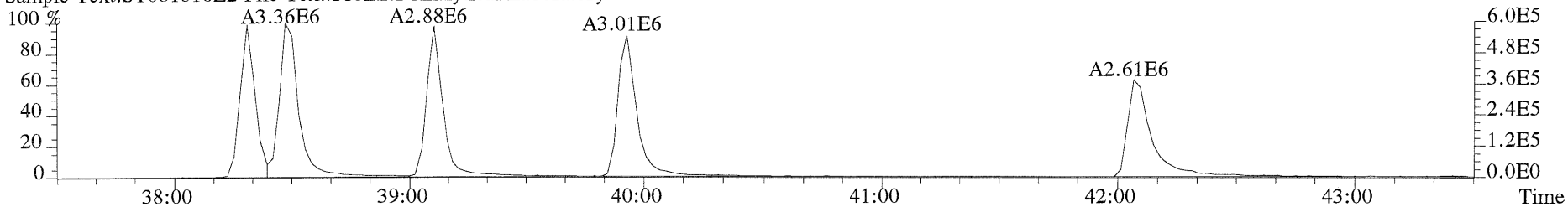
File:18AUG16Z #1-179 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:14 F:4 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



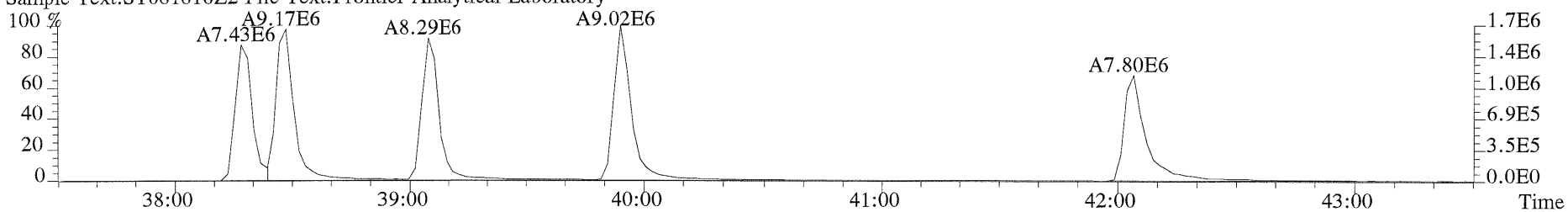
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
325.8804 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



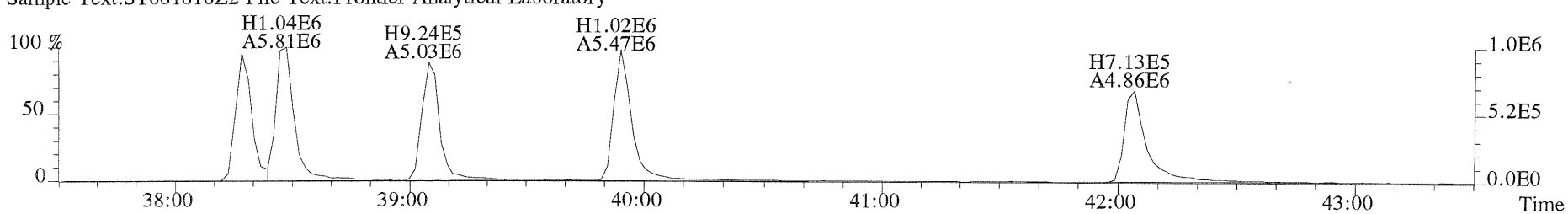
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
327.8775 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



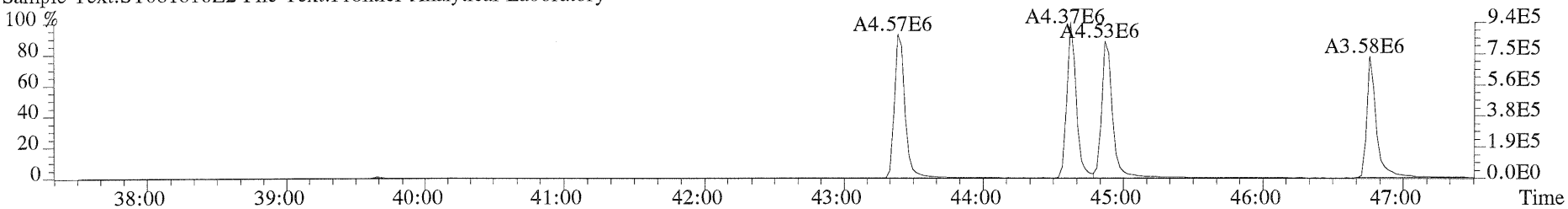
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
337.9207 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



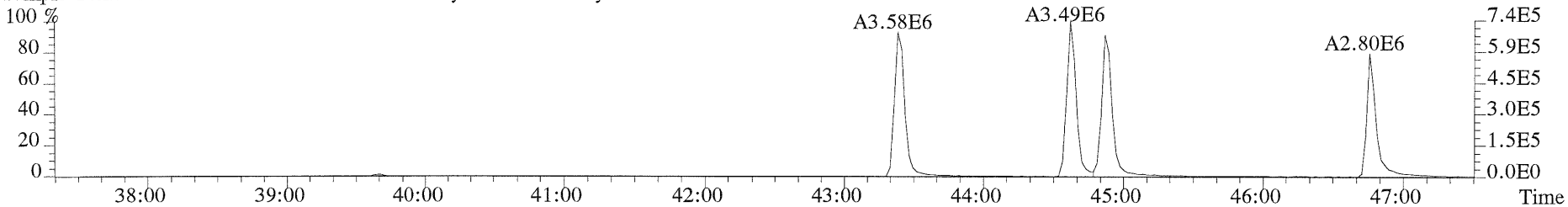
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
339.9178 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



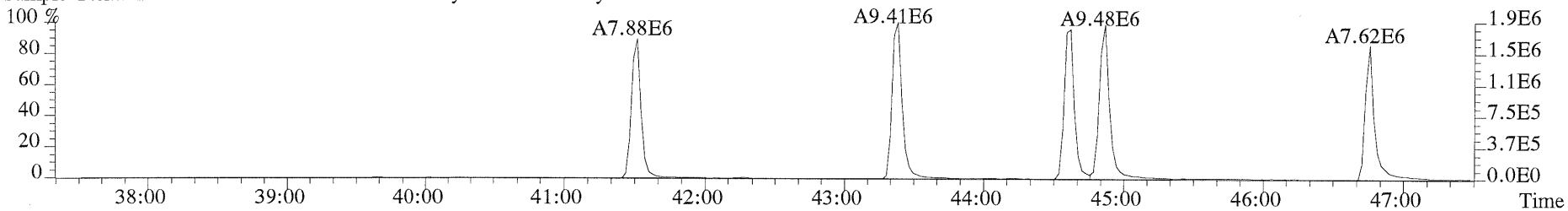
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
359.8415 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



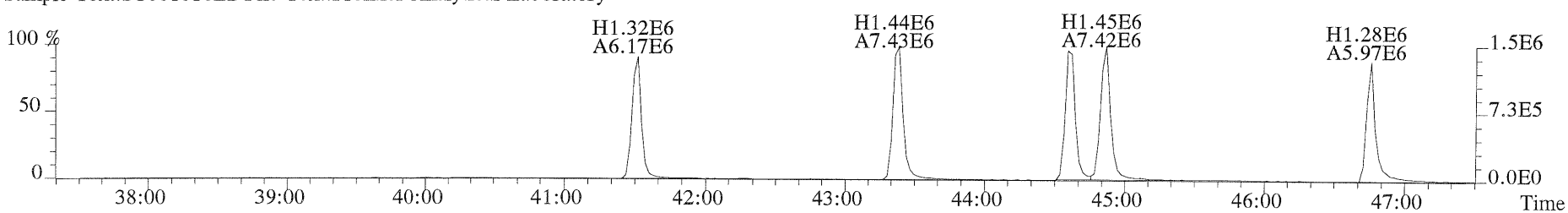
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
361.8385 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



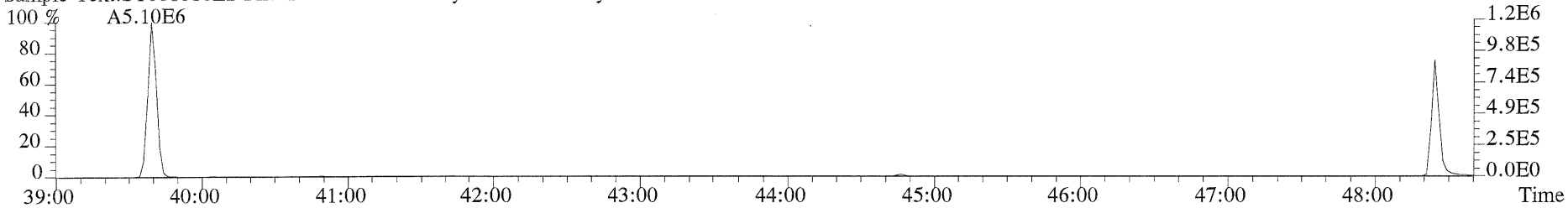
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
371.8817 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



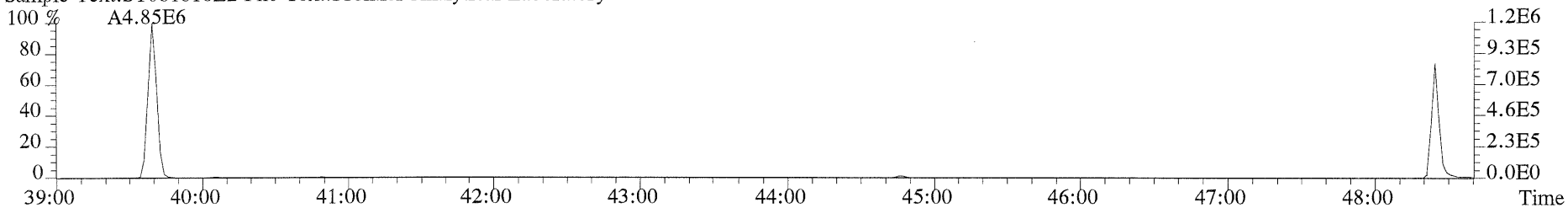
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
373.8788 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



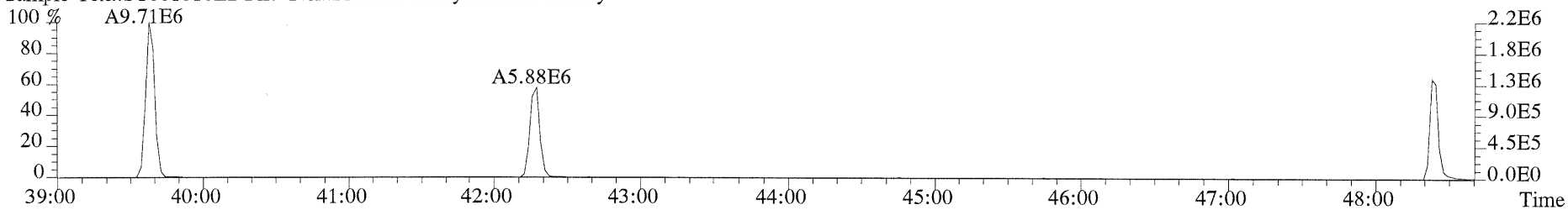
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
393.8025 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



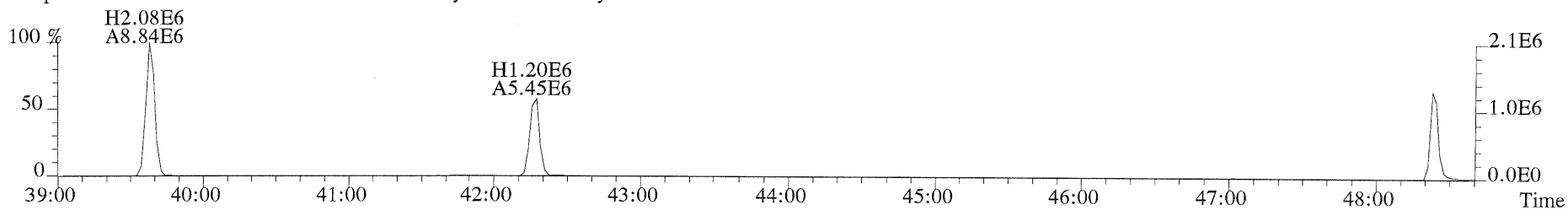
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
395.7995 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



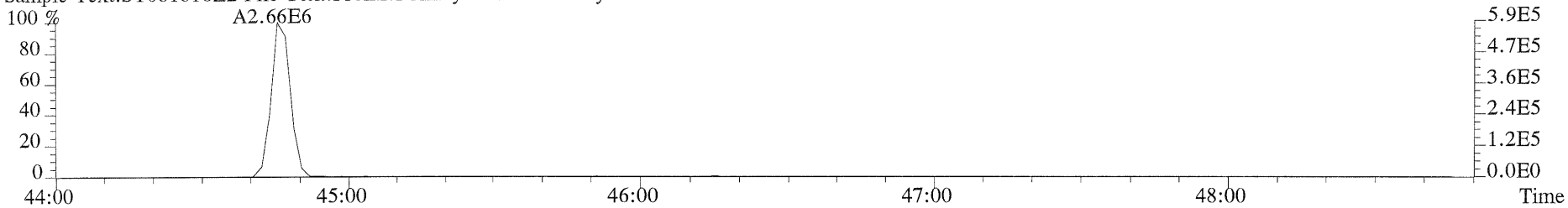
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
405.8428 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



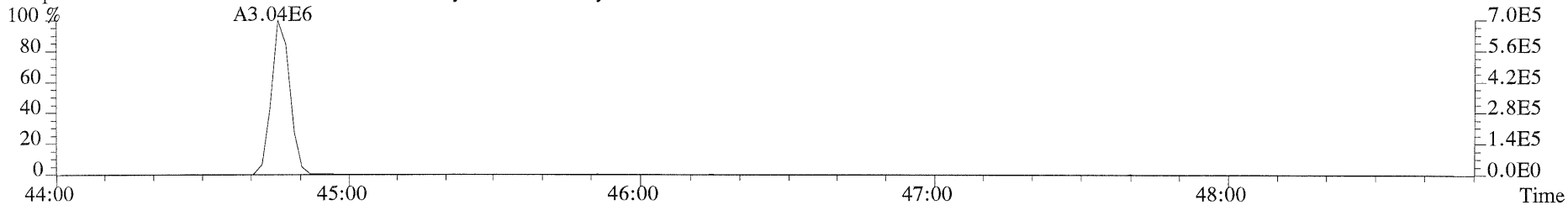
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
407.8398 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



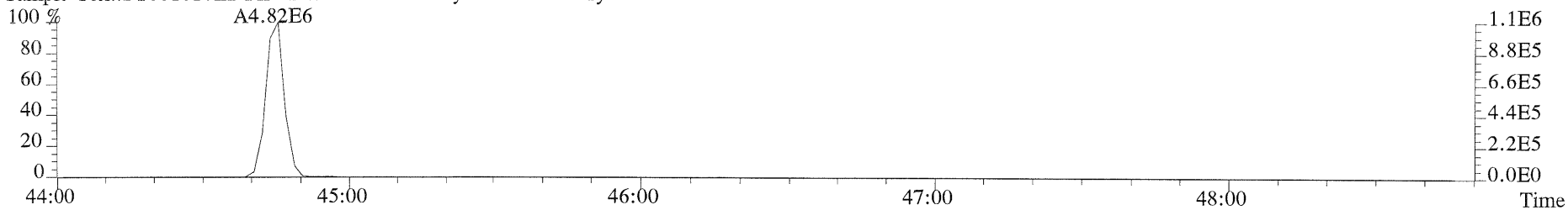
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



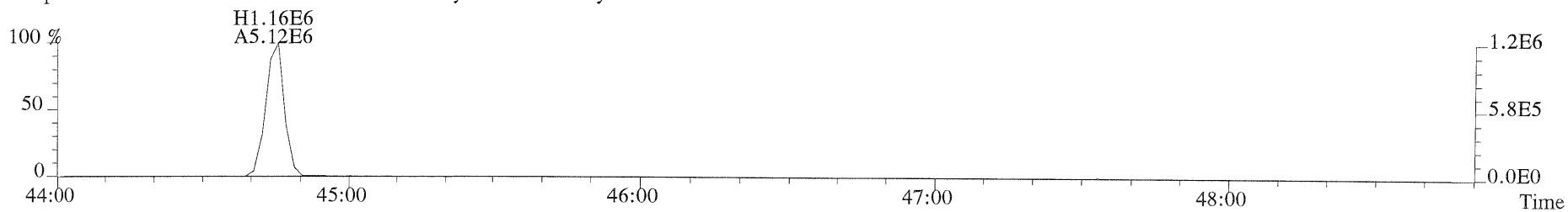
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



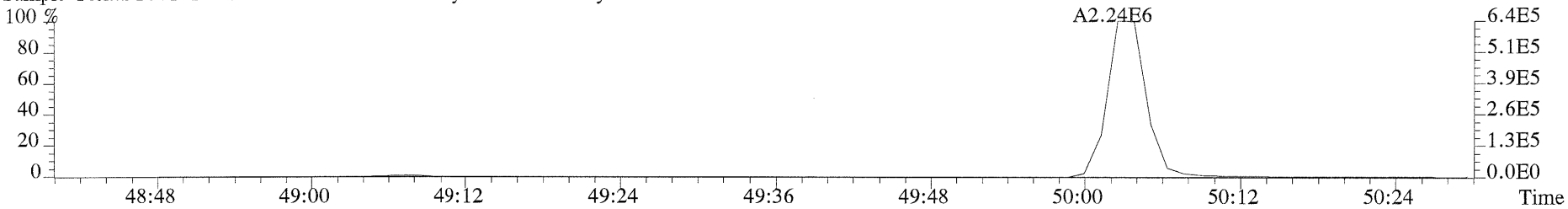
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



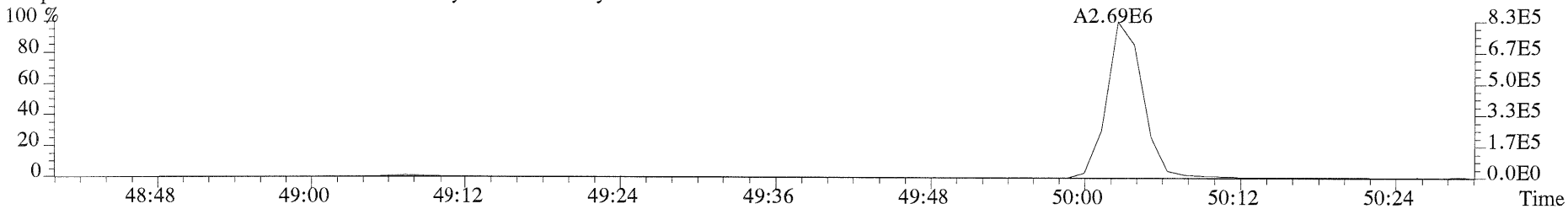
File:18AUG16Z #1-411 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:5 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



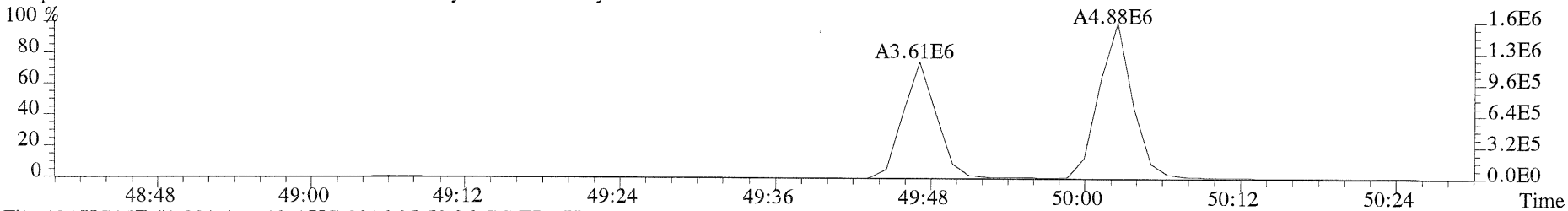
File:18AUG16Z #1-221 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
427.7635 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



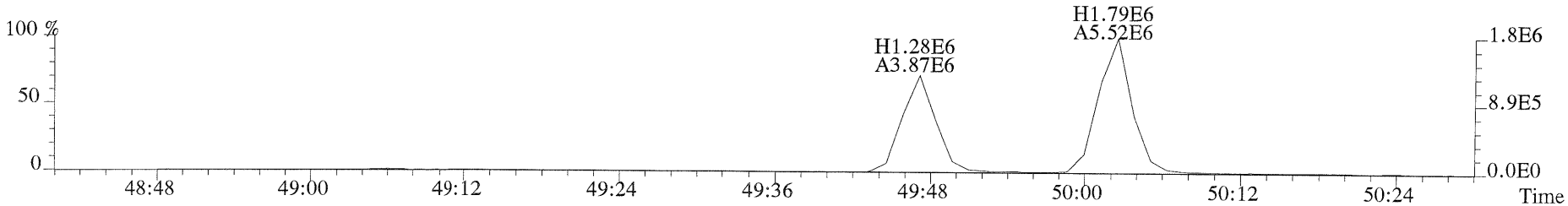
File:18AUG16Z #1-221 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
429.7606 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



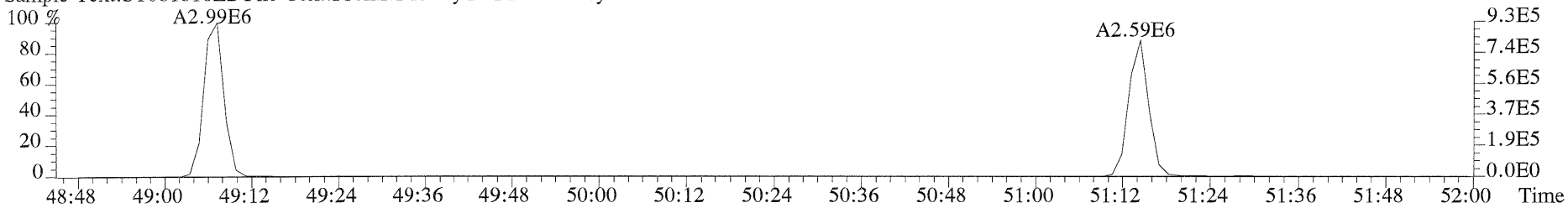
File:18AUG16Z #1-221 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
439.8038 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



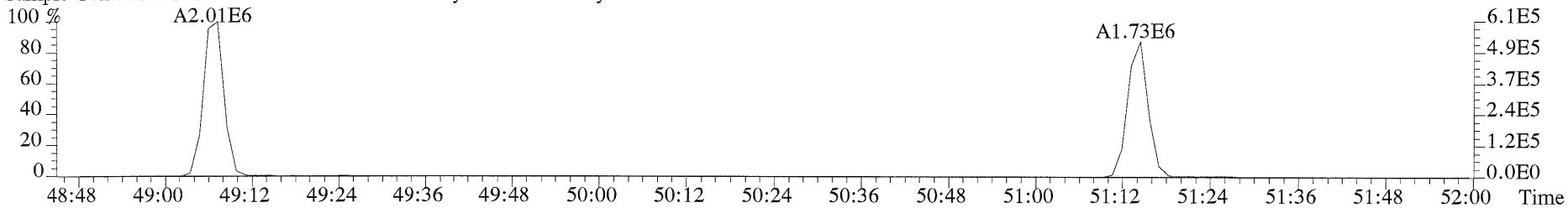
File:18AUG16Z #1-221 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
441.8008 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



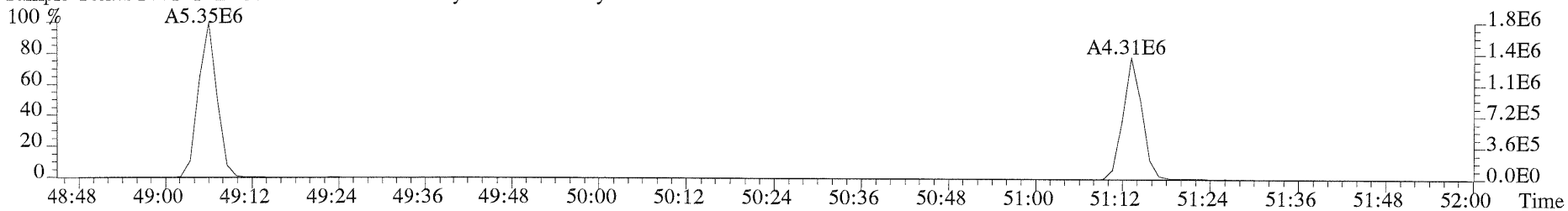
File:18AUG16Z #1-221 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
463.7216 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



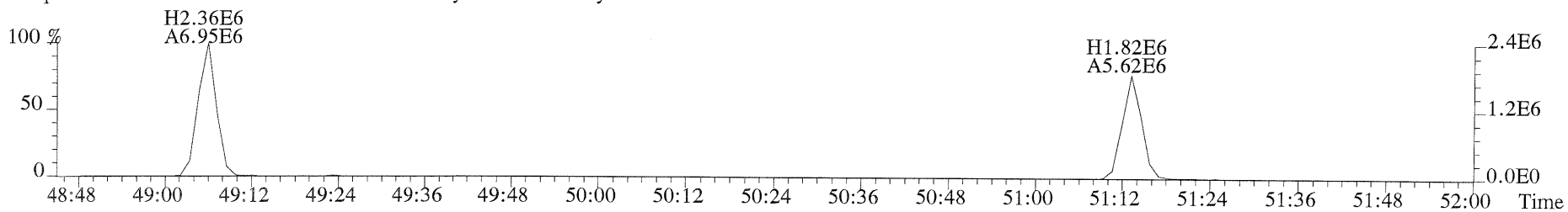
File:18AUG16Z #1-221 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
465.7187 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



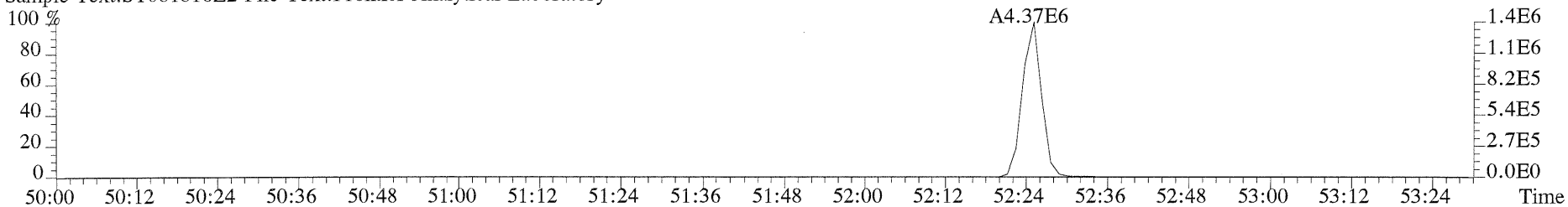
File:18AUG16Z #1-221 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
473.7648 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



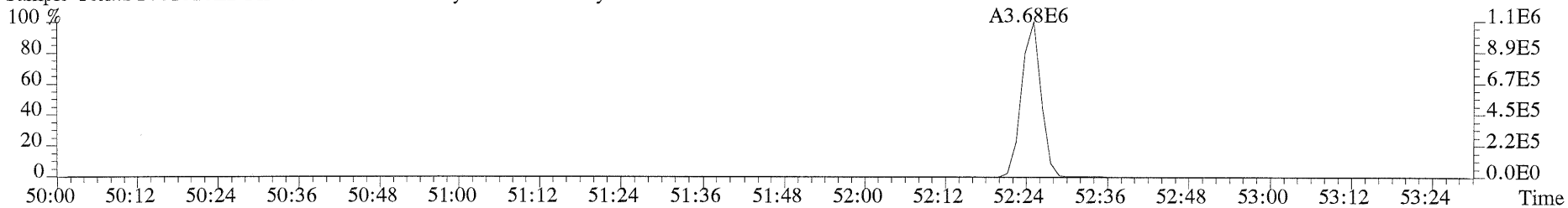
File:18AUG16Z #1-221 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
475.7619 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



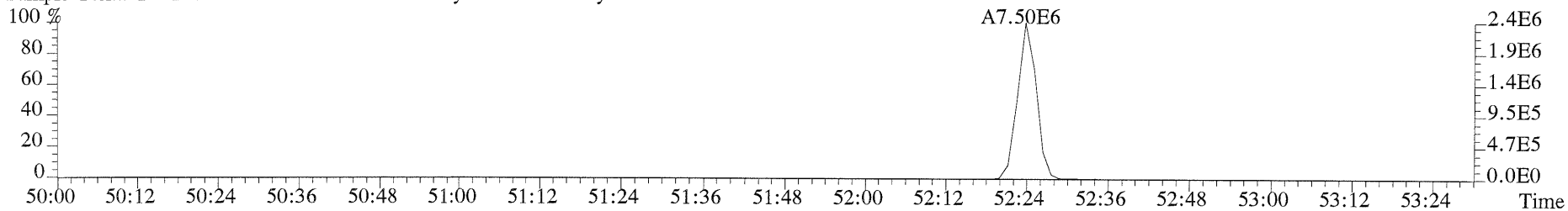
File:18AUG16Z #1-221 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
497.6826 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



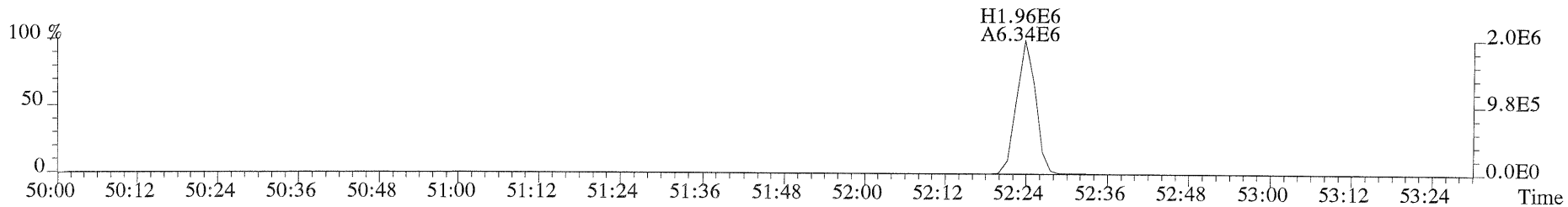
File:18AUG16Z #1-221 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
499.6797 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory



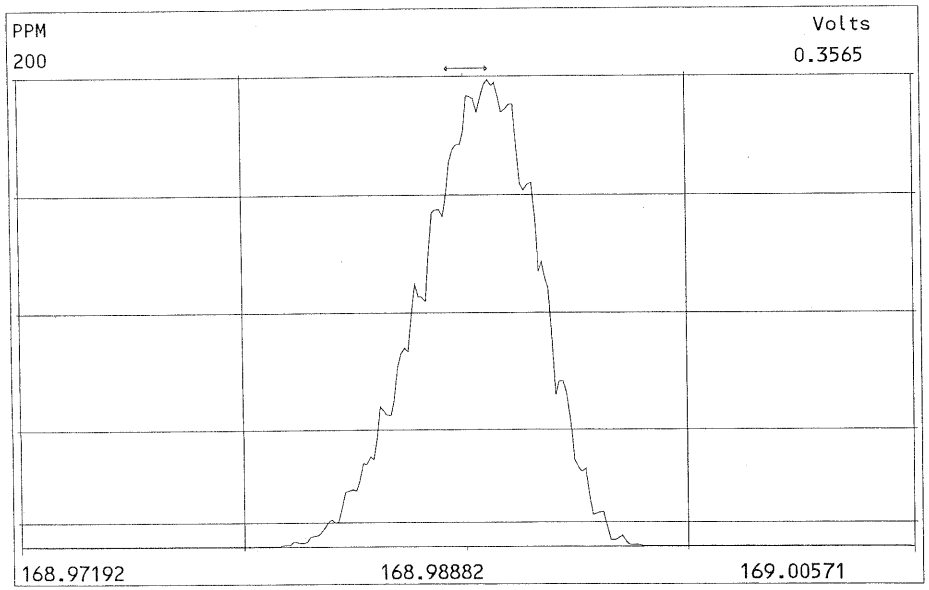
File:18AUG16Z #1-221 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
509.7229 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory

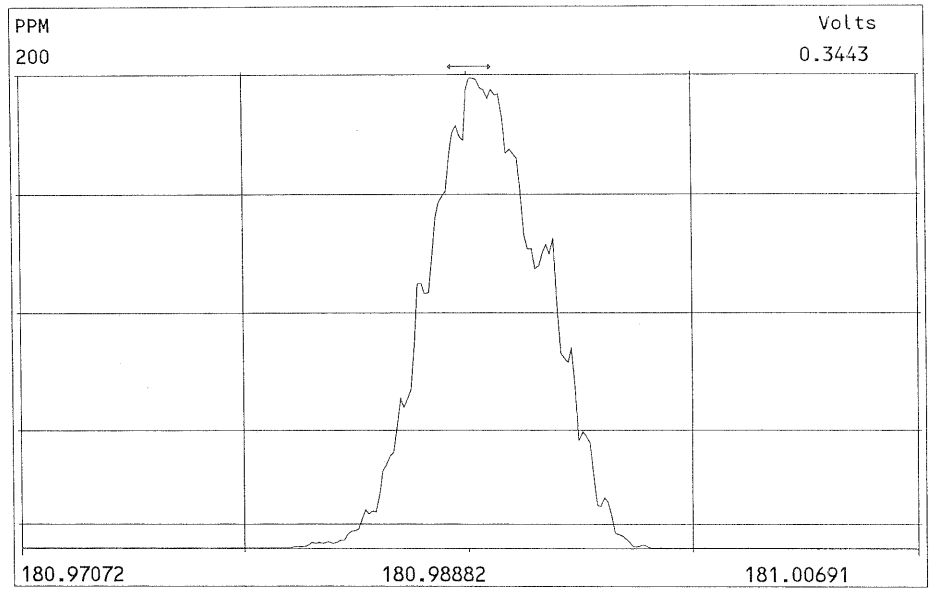


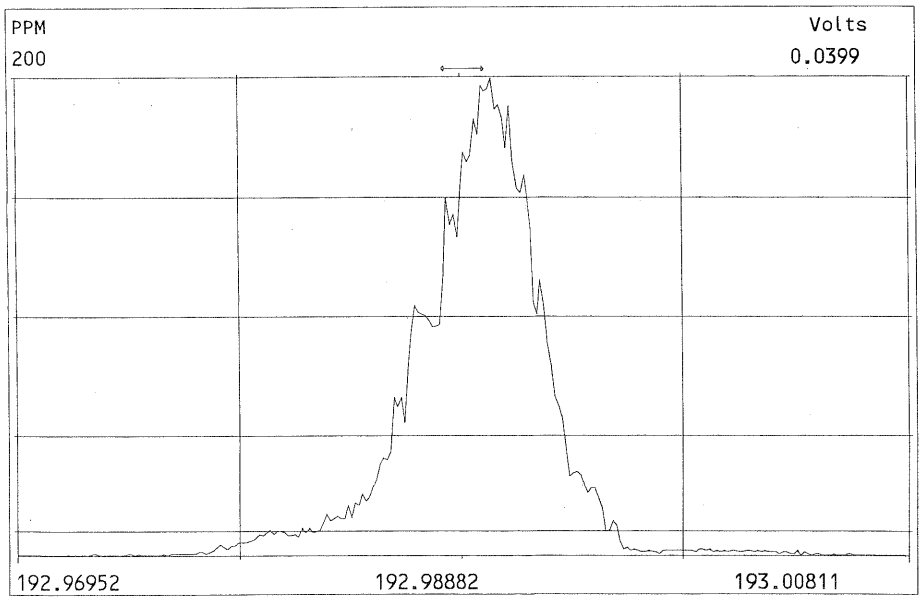
File:18AUG16Z #1-221 Acq:19-AUG-2016 05:50:06 GC EI+ Voltage SIR Autospec-Ultima
511.7199 S:14 F:6 BSUB(1000,15,-3.0) PKD(3,3,1,0.10%,100.0,0.00%,F,F) Exp:1668PCB
Sample Text:ST081816Z2 File Text:Frontier Analytical Laboratory

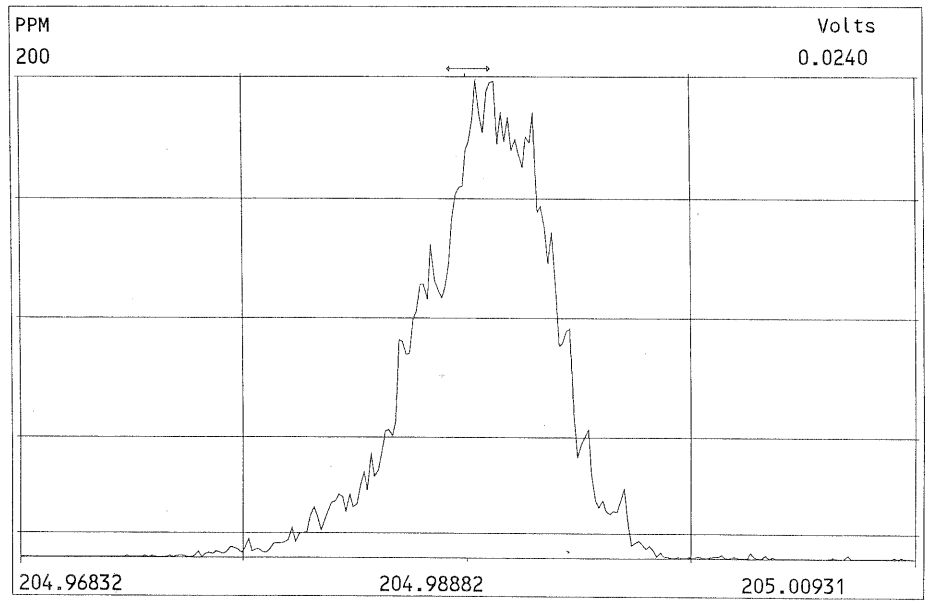


Peak Locate Examination:19-AUG-2016:06:53 File:18AUG16Z_RES_CHECK
Experiment:1668PCB Function:1 Reference:PFK

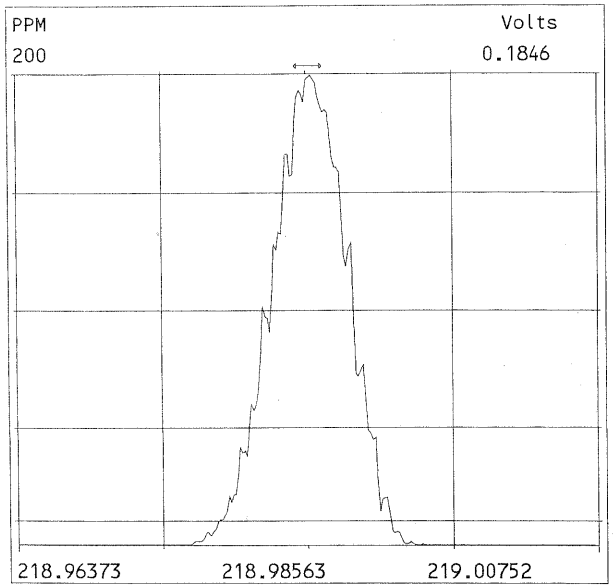


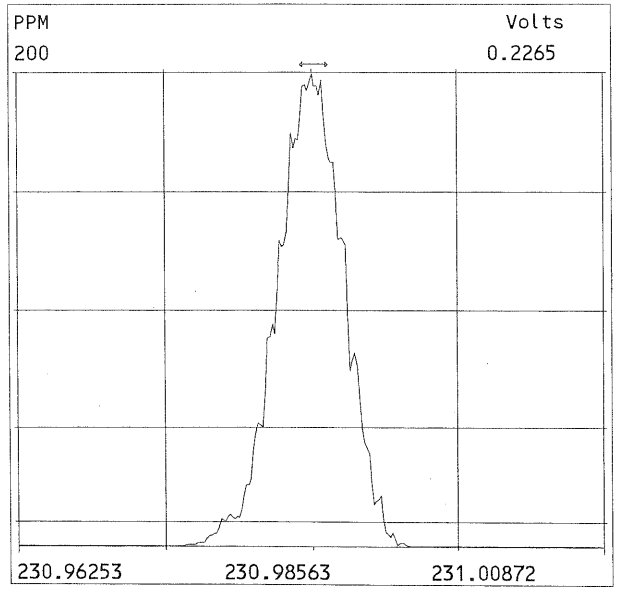


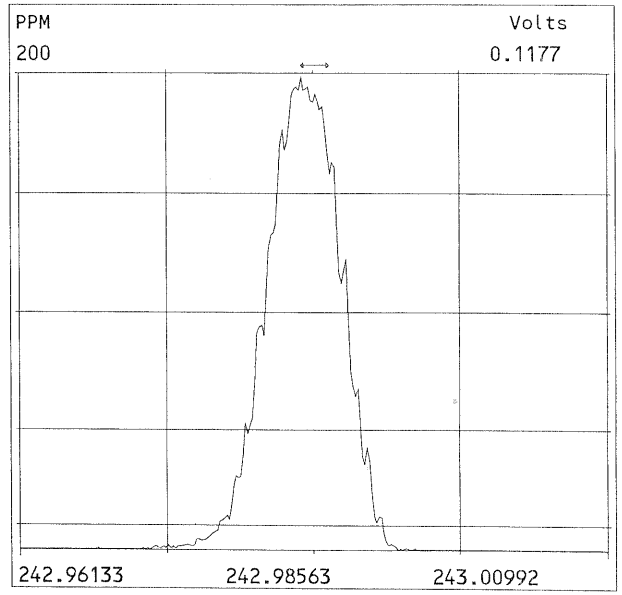


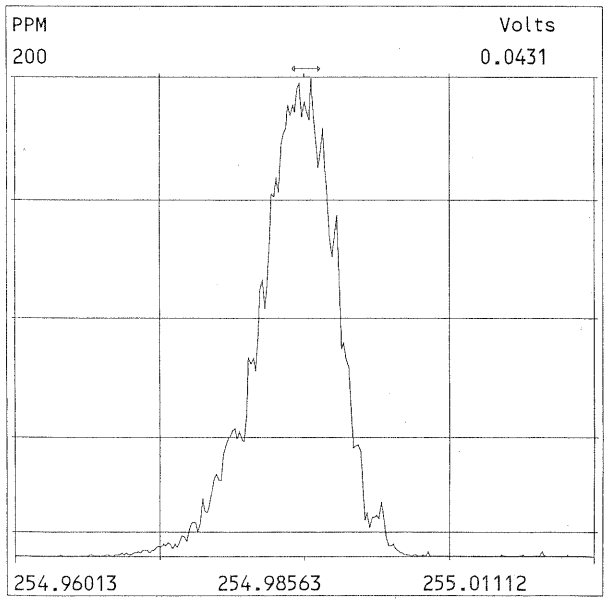


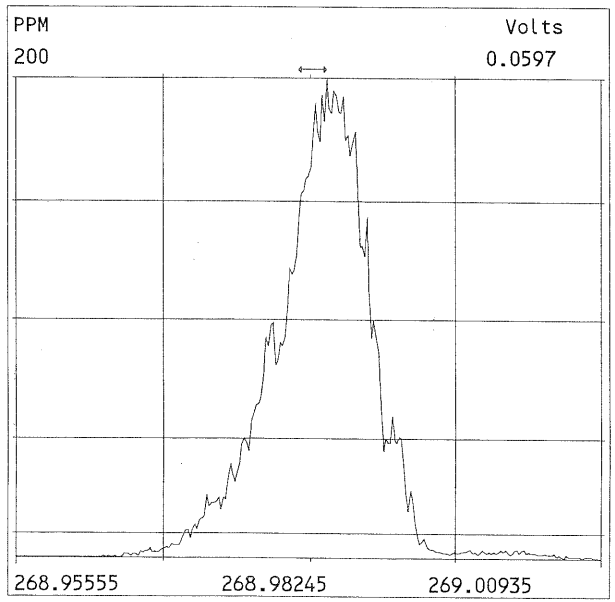
Peak Locate Examination:19-AUG-2016:06:54 File:18AUG16Z_RES_CHECK
Experiment:1668PCB Function:2 Reference:PFK

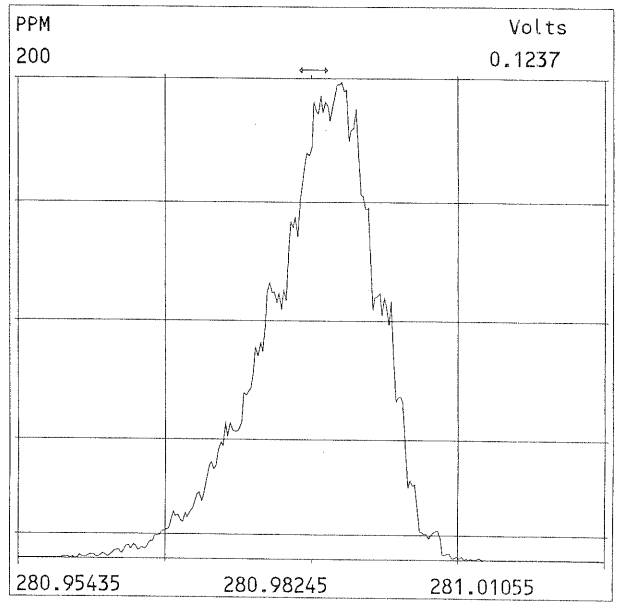




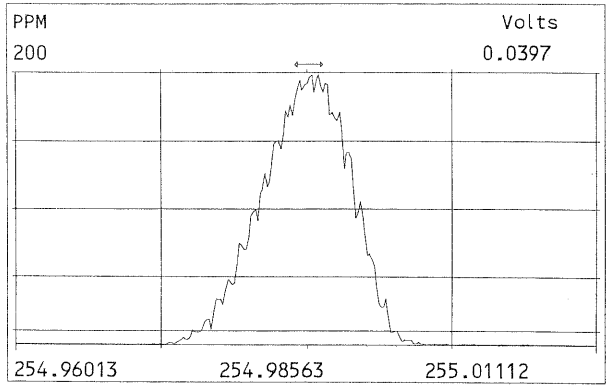


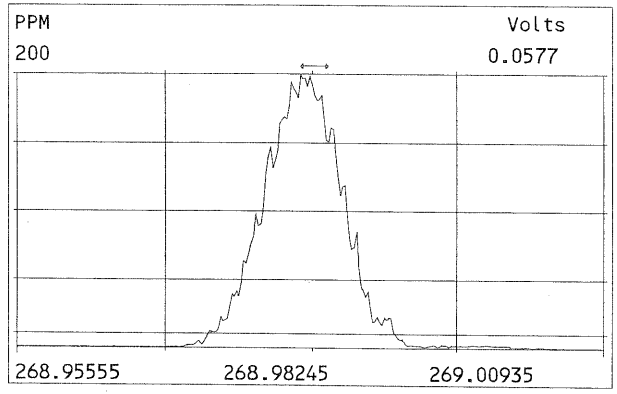


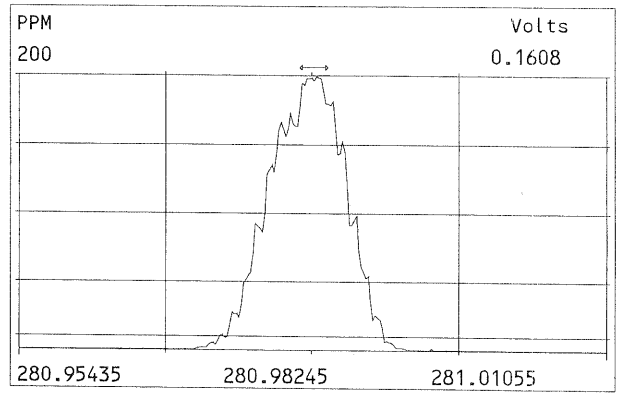


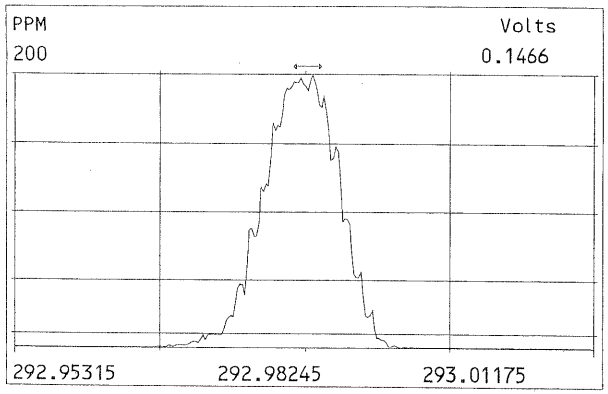


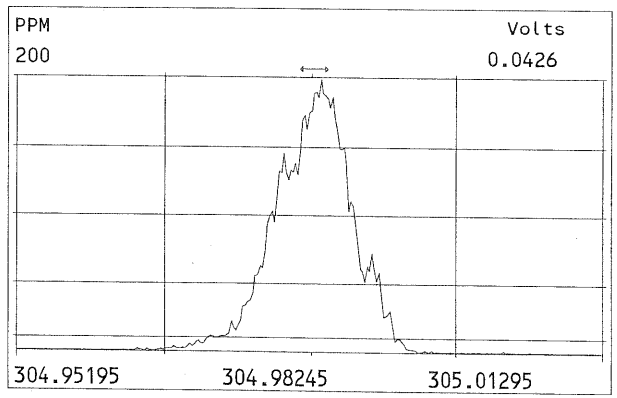
Peak Locate Examination:19-AUG-2016:06:55 File:18AUG16Z_RES_CHECK
Experiment:1668PCB Function:3 Reference:PFK

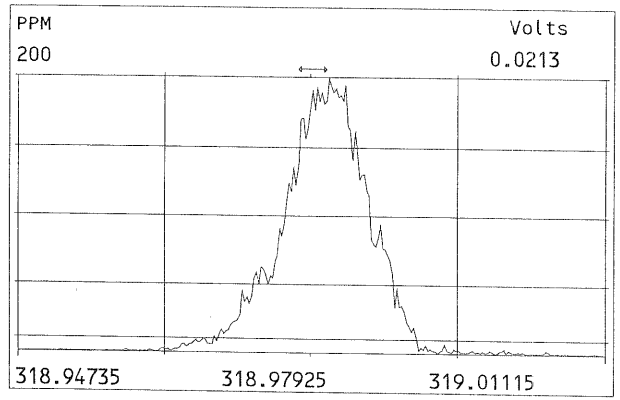


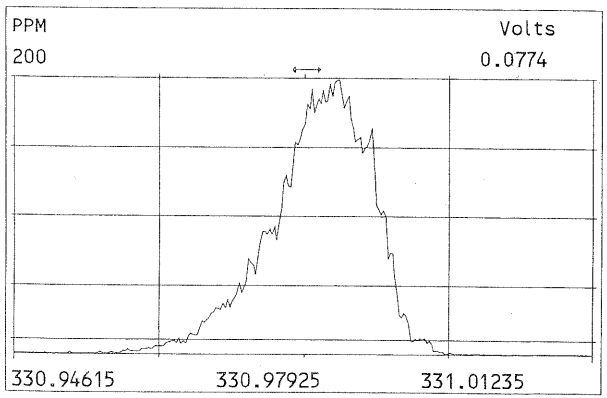


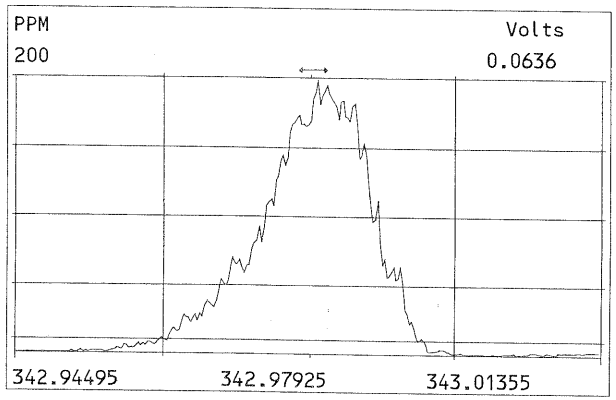




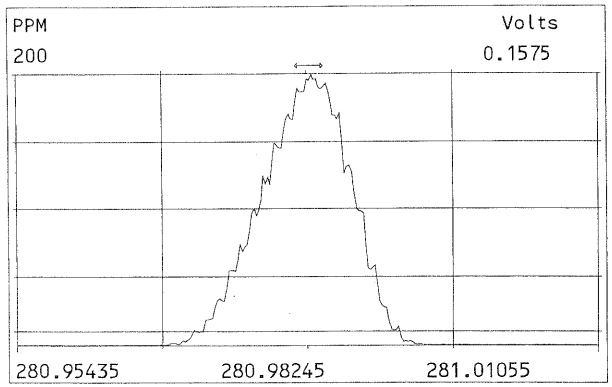


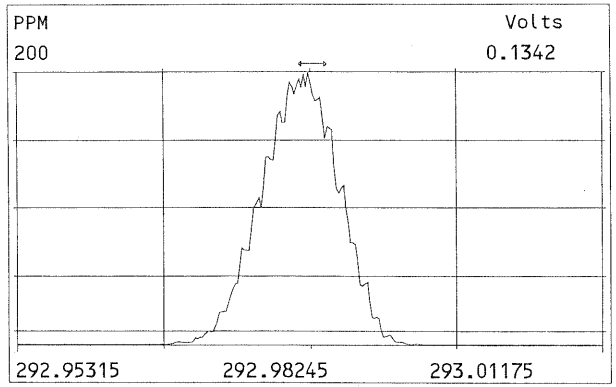


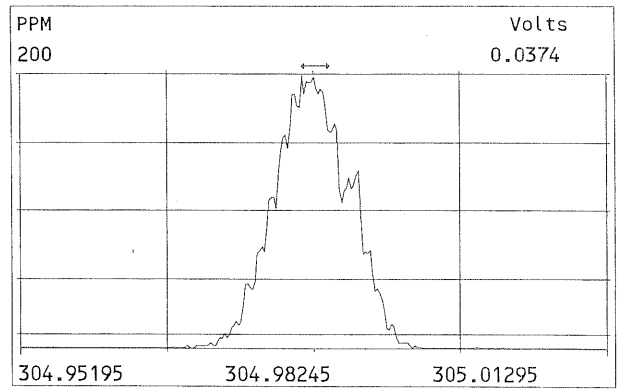


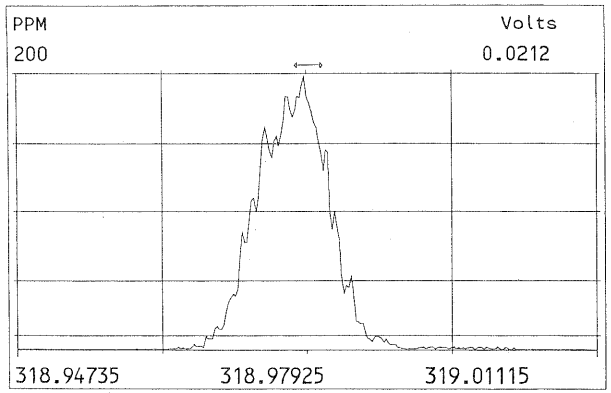


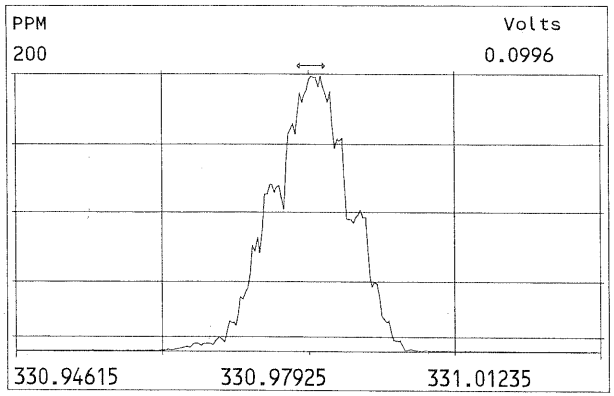
Peak Locate Examination:19-AUG-2016:06:55 File:18AUG16Z_RES_CHECK
Experiment:1668PCB Function:4 Reference:PFK

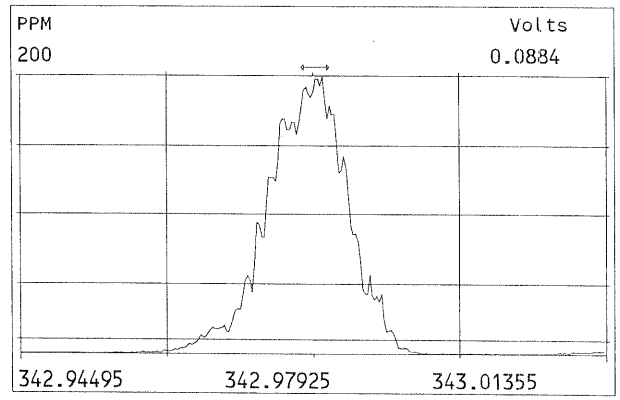


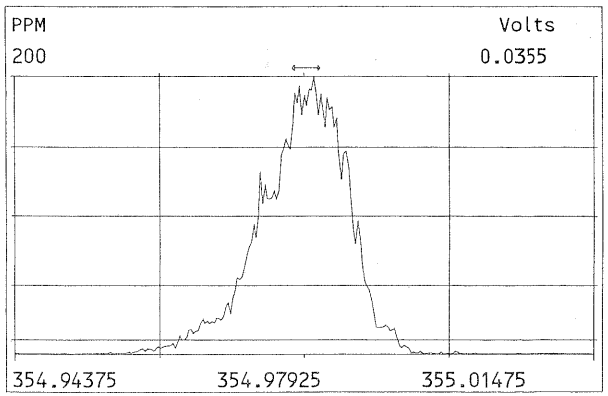


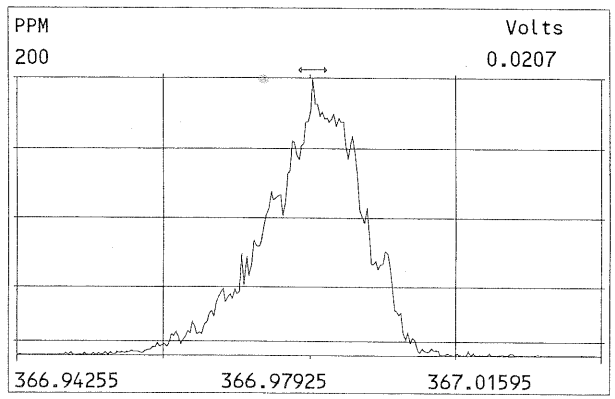


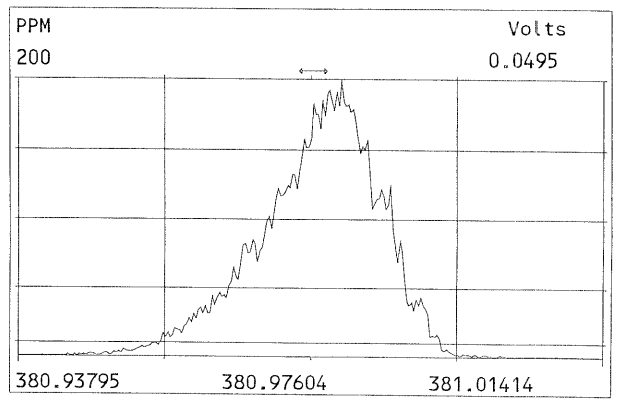




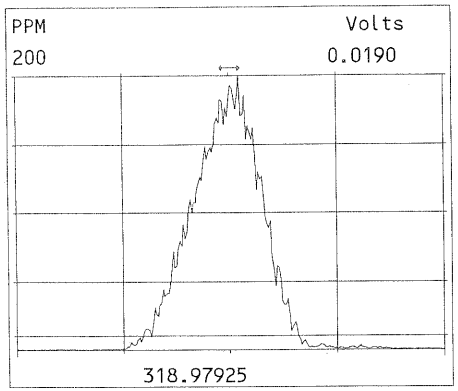


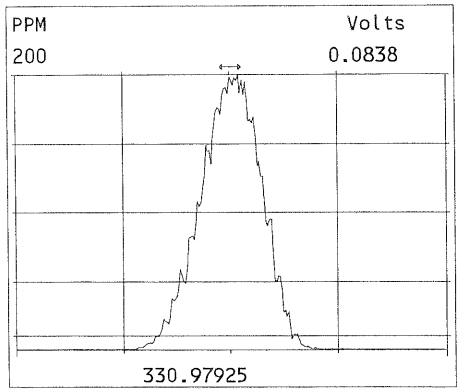


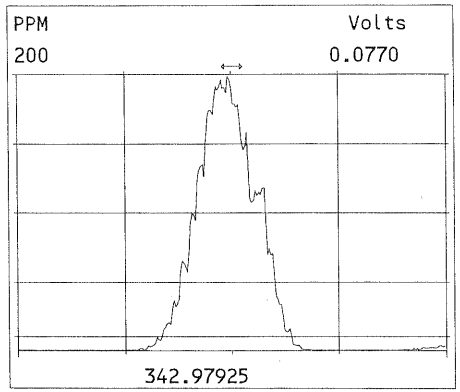


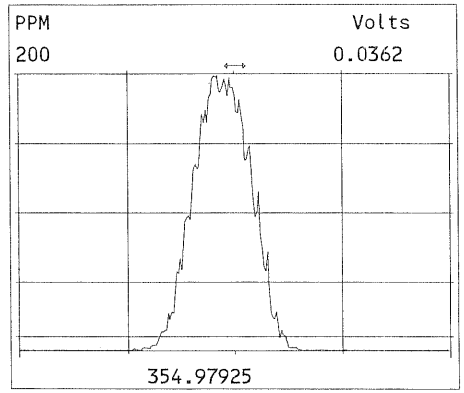


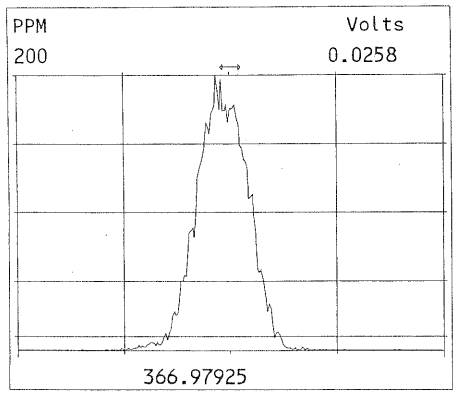
Peak Locate Examination:19-AUG-2016:06:56 File:18AUG16Z_RES_CHECK
Experiment:1668PCB Function:5 Reference:PFK

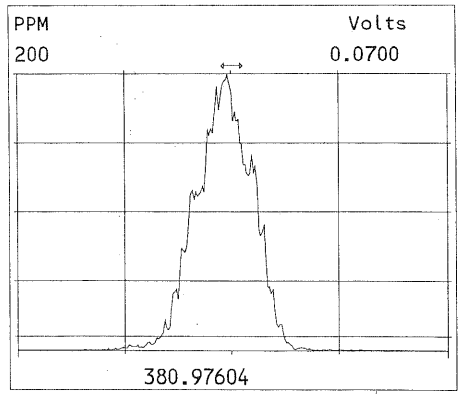


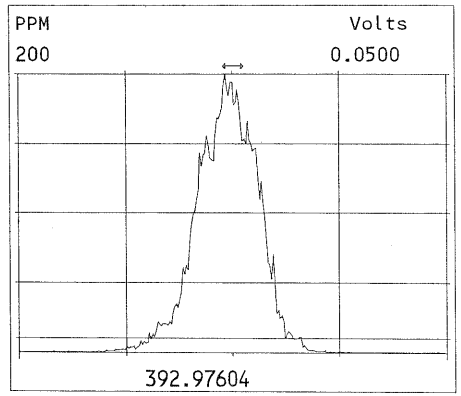


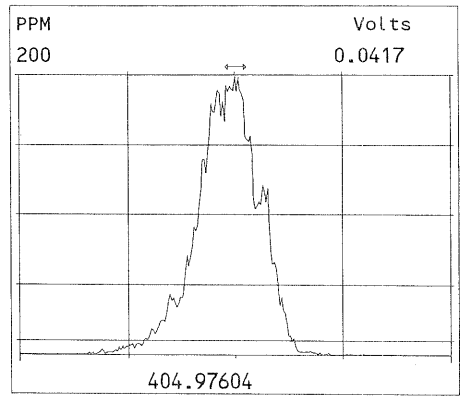


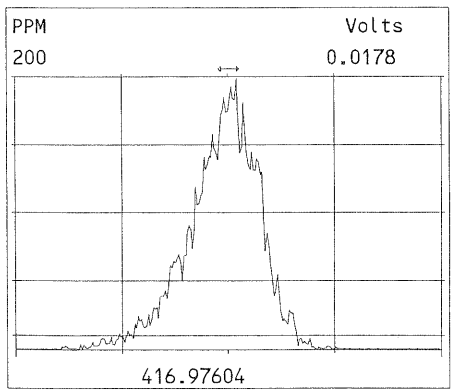


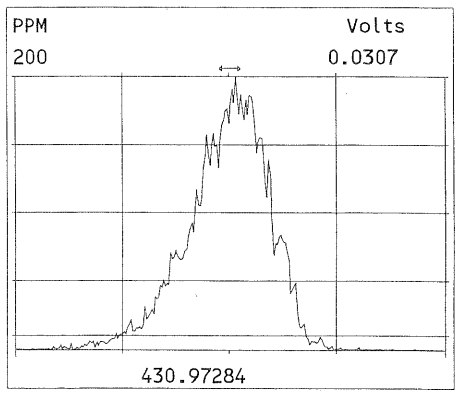


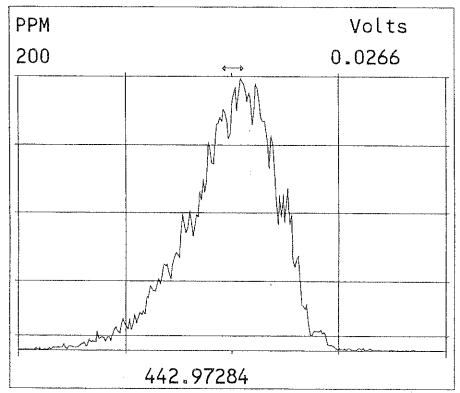
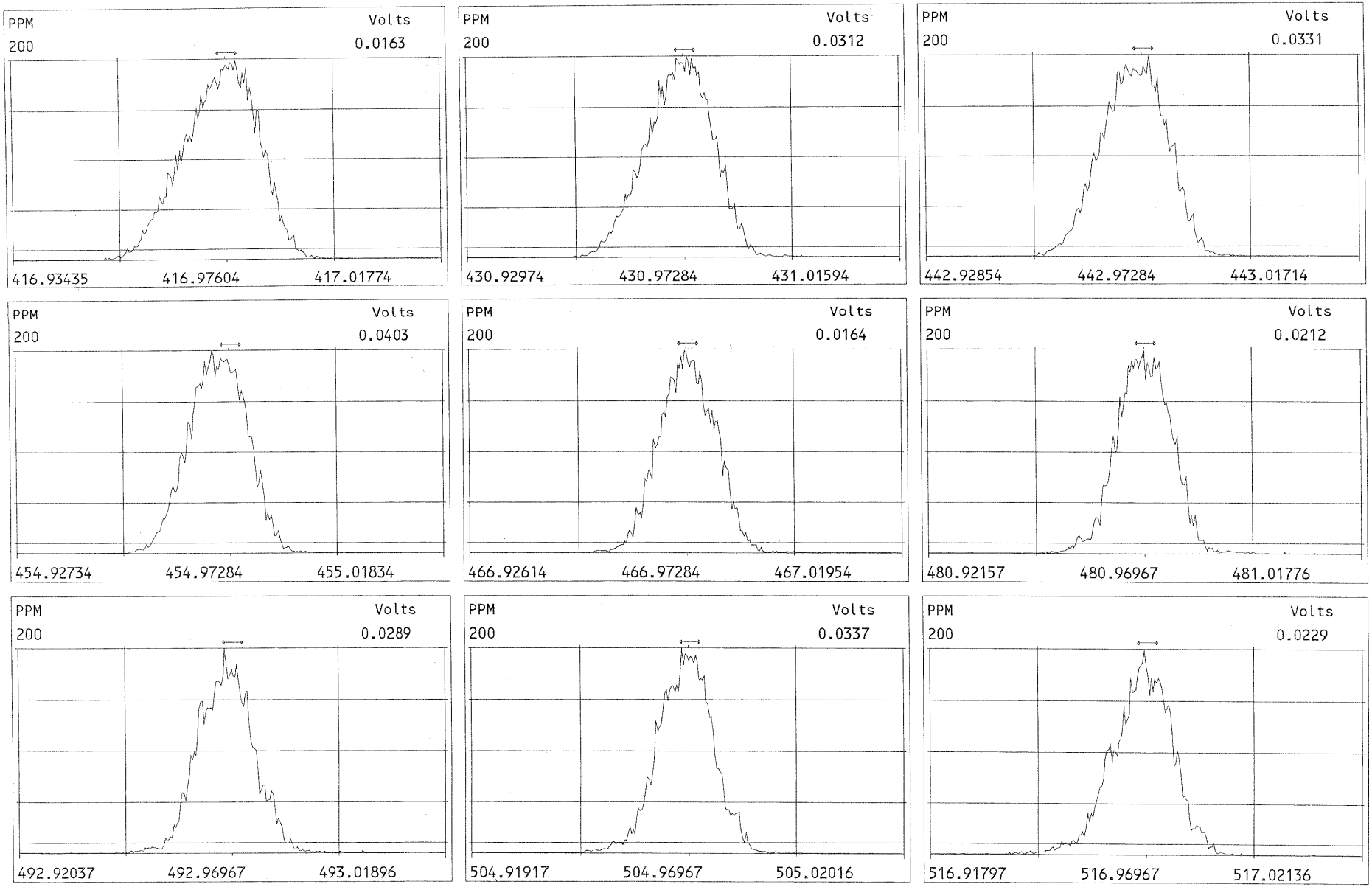












Peak Locate Examination:19-AUG-2016:06:56 File:18AUG16Z_RES_CHECK
Experiment:1668PCB Function:6 Reference:PFK